TEST REPORT

Report Reference No. ..... :	**SZE2607150575ET04**
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Supervised by (position+printed name+signature) . :	Project Reviewer Scott Liang
Approved by (position+printed name+signature) . :	Technical Director Andrea Hu
Date of issue ..... :	2026/10/19
Testing Laboratory Name..... :	EUSACERT (Shenzhen) Testing Co., Ltd.
Address ..... :	103, 2F, Building A2 and 106, Building A3, No. 2082, Jincheng Road, Haoxiang Community, Shajing Street, Bao'an District, Shenzhen, People's Republic of China
Applicant's name..... :	NiceRF Wireless Technology CO.,LTD
Address ..... :	309-314, 3/F, Hongdu Business Building Zone 43, Bao'an District, Shenzhen, Guangdong, 518101 China
Test specification ..... **:**	
Standard..... :	**ETSI EN 300 113 V2.2.1 (2016-12)**
TRF Originator..... :	EUSACERT (Shenzhen) Testing Co., Ltd.
Master TRF ..... :	Dated 2026-01

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Product Name ..... :	Wireless walkie-talkie module
Trade Mark ..... :	G-NiceRF
Product Model ..... :	DMR818S-U
Series Model ..... :	N/A
Hardware Version..... :	V1.0
Software Version ..... :	V1.7
Modulation Type..... :	GFSK
Ratings ..... :	DC 4.2V
Result ..... :	**PASS**

TEST REPORT

Test Report No. :	SZE2607150575ET04	2026/10/19 Date of issue

Product Name	:	Wireless walkie-talkie module
Product Model	:	DMR818S-U
Series Model	:	N/A
Applicant	:	NiceRF Wireless Technology CO.,LTD
Address	:	309-314, 3/F, Hongdu Business Building Zone 43, Bao'an District, Shenzhen, Guangdong, 518101 China
Manufacturer	:	NiceRF Wireless Technology CO.,LTD
Address	:	309-314, 3/F, Hongdu Business Building Zone 43, Bao'an District, Shenzhen, Guangdong, 518101 China

Test Result:	**PASS**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

** Issued History **

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	2026/10/19	Andrea Hu

Contents

1. TEST STANDARDS 5
2. SUMMARY 6
2.1. General Remarks 6
2.2. Product Description 6
2.3. Equipment Under Test 6
3. TEST ENVIRONMENT 7
3.1. Address of the test laboratory 7
3.2. Environmental conditions 7
3.3. Test Description 7
3.3.1. Main Terms 7
3.3.2. Terms used in Condition column 7
3.3.3. Terms used in Verdict column 8
3.3.4. Sumarry of measurement results 8
3.4. Equipment Used during the Test 10
4. TEST CONDITIONS AND RESULTS 11
4.1.1. Frequency Error 11
4.1.2. Transmitter Power (CONDUCTED) 16
4.1.3. Maximum Effective Radiated Power 21
4.1.4. Adjacent and alternate channel power 22
4.1.5. Unwanted emissions in the spurious domain 28
4.1.6. Intermodulation attenuation 51
4.1.7. Transmitter attack time 52
4.1.8. Transmitter release time 54
4.1.9. Transient frequency Behavior of transmitter 56
4.2. ETSI EN 300 113 REQUIREMENTS FOR RECEIVER 58
4.2.1. Maximum usable sensitivity (conducted) 58
4.2.2. Receiver error behaviour at high input levels 60
4.2.3. Co-channel rejection 61
4.2.4. Adjacent channel selectivity 64
4.2.5. Spurious response rejection 65
4.2.6. Intermodulation response rejection 66
4.2.7. Blocking or desensitization 69
4.2.8. Spurious radiations 72
4.3. Receiver desensitization (with simultaneous transmission and reception) 89
4.4. Receiver spurious response rejection (with simultaneous transmission and reception) 90
5. TEST SETUP PHOTOS OF THE EUT 91
6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT 92

1. TEST STANDARDS

The tests were performed according to following standards:

ETSI EN 300 113 V2.2.1 (2016-12)

Land Mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	2026/07/15
Testing commenced on	:	2026/07/15
Testing concluded on	:	2026/10/19

2.2. Product Description

Name of EUT	Wireless walkie-talkie module
Model(s) Number	DMR818S-U
List Models	N/A
Difference descrption	N/A
Hardware version	V1.0
Software version	V1.7
Antenna Type	External Antenna

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	○	230V/ 50 Hz	○	120V/60Hz
		○	12 V DC	○	24 V DC
		●	Other (specified in blank below)		

DC 4.2V

Description of the test mode

Channel list		
Channel Separation for 12.5kHz	Channel	Ferquecny (MHz)
	1	406.10625
	2	418.05625
	3	429.99375
	4	450.00625
	5	460.00000
	6	469.99375

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

EUSACERT (Shenzhen) Testing Co., Ltd.
103, 2F, Building A2 and 106, Building A3, No. 2082, Jincheng Road, Haoxiang Community, Shajing Street, Bao'an District, Shenzhen, People's Republic of China

3.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature: 15°C~35°C
High Temperature: 55℃
Low Temperature: -20℃
Normal Voltage: DC 4.2V
High Voltage: DC 4.5V
Low Voltage:DC 3.4V
Relative Humidity: 55 %
Air Pressure: 989 hPa

3.3. Test Description

3.3.1. Main Terms

Verdict	Verdict of each test cases.
Test Case	Test cases identification number and description in ETSI specification.

3.3.2. Terms used in Condition column

NTC Normal voltage, Normal Temperature
HTHV High voltage, High Temperature
LTHV High voltage, Low Temperature
HTLV Low voltage, High Temperature
LTLV Low voltage, Low Temperature

3.3.3. Terms used in Verdict column

Pass	This test cases has been tested, and EUT is conformant to the applied standards in the given frequency band.
Fail	This test cases has been tested, but EUT is not conformant to the applied standards in the given frequency band.
N/A	This test case is either not required/not applicable in the specified band or is not applicable according to the specific PICS/PIXIT for the EUT.
Inc	Test case result is ambiguous in the given frequency band.
Decl	Declaration is received from the client to demonstrate the conformity to the relevant specification in the given frequency band.
BR	This test cases is not tested in the given frequency band, but this testcases was tested with pass result for the initial model in the given frequency band.

3.3.4. Sumarry of measurement results

№	Basic Standard	Test Type	Result
ETSI EN 300 113 REQUIREMENTS FOR TRANSMITTER			
1	EN 300 113 Sub-clause 7.1	Transmitter frequency error	PASS
2	EN 300 113 Sub-clause 7.2	Transmitter power (conducted)	PASS
3	EN 300 113 Sub-clause 7.3	Transmitter maximum effective radiated power	N/A
4	EN 300 113 Sub-clause 7.4	Transmitter adjacent and alternate channel power	PASS
5	EN 300 113 Sub-clause 7.5	Transmitter unwanted emissions in the spurious domain	PASS
6	EN 300 113 Sub-clause 7.6	Transmitter intermodulation attenuation	N/A
7	EN 300 113 Sub-clause 7.7	Transmitter attack time	PASS
8	EN 300 113 Sub-clause 7.8	Transmitter release time	PASS
9	EN 300 113 Sub-clause 7.9	Transient behaviour of the transmitter	PASS

ETSI EN 300 113 REQUIREMENTS FOR RECEIVER			
10	EN 300 113 Sub-clause 8.1	Receiver maximum useable sensitivity (conducted)	PASS
11	EN 300 113 Sub-clause 8.2	Receiver maximum useable sensitivity (field strength)	N/A
12	EN 300 113 Sub-clause 8.3	Level of the wanted signal for the degradation measurements	N/A
13	EN 300 113 Sub-clause 8.4	Receiver error behaviour at high input levels	PASS
14	EN 300 113 Sub-clause 8.5	Receiver co-channel rejection	PASS
15	EN 300 113 Sub-clause 8.6	Receiver adjacent channel selectivity	PASS
16	EN 300 113 Sub-clause 8.7	Receiver spurious response rejection	PASS
17	EN 300 113 Sub-clause 8.8	Receiver intermodulation response rejection	PASS
18	EN 300 113 Sub-clause 8.9	Receiver blocking or desensitization	PASS
19	EN 300 113 Sub-clause 8.10	Receiver spurious radiations	PASS
ETSI EN 300 113 REQUIREMENTS FOR DUPLEX OPERATION			
20	EN 300 113 Sub-clause 9.1	Receiver desensitization (with simultaneous transmission and reception)	PASS
21	EN 300 113 Sub-clause 9.2	Receiver spurious response rejection (with simultaneous transmission and reception)	PASS

NOTE: 1. N/A- Not Applicable. 2. The latest versions of basic standards are applied.

3.4. Equipment Used during the Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	Spectrum analyzer	Agilent	N9020A	EUSA-028	2026/07/13	2027/07/12
2	Signal generator	Agilent	E4421B	EUSA-018	2026/07/13	2027/07/12
3	Signal generator	Agilent	N5181A	EUSA-019	2026/07/13	2027/07/12
4	Temperature and humidity meter	Boyang	HTC-1	EUSA-043	2026/07/13	2027/07/12
5	Wireless Communication Test Set	R&S	CMW500	EUSA-029	2026/07/13	2027/07/12
6	Audio Analyzer	Hp	8921A	EUSA-099	2026/07/13	2027/07/12
7	RF test software	Tonscend	V3.6.21	EUSA-060	/	/
8	Broadband antenna	Schwarzbeck	VULB 9163	EUSA-012	2025/07/14	2027/07/13
9	Horn antenna	Schwarzbeck	9120D	EUSA-013	2025/07/14	2027/07/13
10	EMI Test Receiver	R&S	ESR-7	EUSA-009	2026/07/13	2027/07/12
11	Amplifier	Schwarzbeck	BBV9743	EUSA-010	2026/07/13	2027/07/12
12	Amplifier	COM-POWER	PAM-118A	EUSA-011	2026/07/13	2027/07/12
13	High pass filter unit	Tonscend	JS0806-F	EUSA-034	2026/07/13	2027/07/12
14	Wireless Communication Test Set	R&S	CMW500	EUSA-029	2026/07/13	2027/07/12
15	Temperature control box	Weiss Technik	VT4002 EMC	EUSA-104	2026/07/13	2027/07/12
16	RSE Test Software	Tonscend	JS35-RSE 5.0.0	EUSA-061	/	/

4. TEST CONDITIONS AND RESULTS

4.1.1. Frequency Error

LIMIT

EN 300 113 V2.2.1 (2016-12) Sub-clause 7.1.3

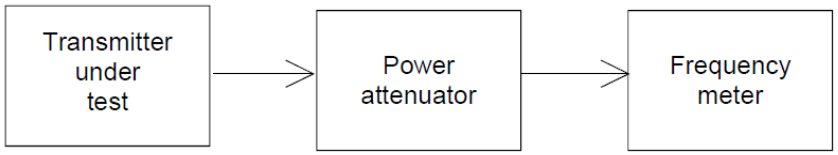
The frequency error, as defined in EN 300 113 sub-clause 7.1.3, The frequency error shall not exceed the values given in table 2, under normal and extreme test conditions, or in any intermediate set of conditions. However, for practical reasons the measurement shall be performed only at nominal and extreme test conditions.

Table 2: Frequency error

Channel separation (kHz)	Frequency error limit (kHz)				
	below 47 MHz	47 MHz to 137 MHz	above 137 MHz to 300 MHz	above 300 MHz to 500 MHz	above 500 MHz to 1 000 MHz
20 and 25	±0,60	±1,35	±2,00	±2,00 (see note 2)	±2,50 (see note 2)
12,5	±0,60	±1,00	±1,00 (B) ±1,50 (M)	±1,00 (B) ±1,50 (M) (see note 2)	No value specified

NOTE 1: For handportable stations having integral power supplies, these limits only apply to the reduced extreme temperature range 0 °C to +40 °C.
NOTE 2: However for the full extreme temperature conditions (see clause 5.4.1), exceeding the reduced extreme temperature range above, the following frequency error limits apply:
±2,50 kHz between 300 MHz and 500 MHz;
±3,00 kHz between 500 MHz and 1 000 MHz.
NOTE 3: (B) base station.
NOTE 4: (M)mobile station.

TEST CONFIGURATION



TEST PROCEDURE

1. Please refer to ETSI EN 300 113(V2.2.1) Sub-clause 5.3 and Sub-clause 5.4 for the test conditions.
2. Please refer to ETSI EN 300 113(V2.2.1) Sub-clause 7.1.2 for the measurement method.

TEST RESULTS

High Power

406.10625Mhz of 12.5 kHz Channel Separation

Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	406.10600	-0.25
T_{min} (-10)	DC 4.5	406.10599	-0.26
	DC 3.4	406.10597	-0.28
T_{max} (+40)	DC 4.5	406.10596	-0.29
	DC 3.4	406.10587	-0.38
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 406.10625MHz	
Result		Pass	

418.05625Mhz of 12.5 kHz Channel Separation

Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	418.05600	-0.25
T_{min} (-10)	DC 4.5	418.05597	-0.28
	DC 3.4	418.05594	-0.31
T_{max} (+40)	DC 4.5	418.05591	-0.34
	DC 3.4	418.05585	-0.40
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 418.05625MHz	
Result		Pass	

429.99375Mhz of 12.5 kHz Channel Separation

Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	429.99300	-0.75
T_{min} (-10)	DC 4.5	429.99297	-0.78
	DC 3.4	429.99291	-0.84
T_{max} (+40)	DC 4.5	429.99296	-0.79
	DC 3.4	429.99295	-0.80
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 429.99375MHz	
Result		Pass	

450.00625Mhz of 12.5 kHz Channel Separation

Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	450.00600	-0.25
T_{min} (-10)	DC 4.5	450.00592	-0.33
	DC 3.4	450.00591	-0.34
T_{max} (+40)	DC 4.5	450.00594	-0.31
	DC 3.4	450.00596	-0.29
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 450.00625MHz	
Result		Pass	

460.00000Mhz of 12.5 kHz Channel Separation

Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	460.00000	0.00
T_{min} (-10)	DC 4.5	459.99990	-0.10
	DC 3.4	459.99994	-0.06
T_{max} (+40)	DC 4.5	459.99989	-0.11
	DC 3.4	459.99978	-0.22
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 460.00000 MHz	
Result		Pass	

469.99375Mhz of 12.5 kHz Channel Separation

Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	469.99300	-0.75
T_{min} (-10)	DC 4.5	469.99296	-0.79
	DC 3.4	469.99295	-0.80
T_{max} (+40)	DC 4.5	469.99297	-0.78
	DC 3.4	469.99287	-0.88
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 469.99375MHz	
Result		Pass	

Low Power

406.10625Mhz of 12.5 kHz Channel Separation

Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	406.10600	-0.25
T_{min} (-10)	DC 4.5	406.10593	-0.32
	DC 3.4	406.10590	-0.35
T_{max} (+40)	DC 4.5	406.10591	-0.34
	DC 3.4	406.10599	-0.26
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 406.10625MHz	
Result		Pass	

418.05625Mhz of 12.5 kHz Channel Separation

Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	418.05600	-0.25
T_{min} (-10)	DC 4.5	418.05596	-0.29
	DC 3.4	418.05599	-0.26
T_{max} (+40)	DC 4.5	418.05595	-0.30
	DC 3.4	418.05597	-0.28
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 418.05625MHz	
Result		Pass	

429.99375Mhz of 12.5 kHz Channel Separation

Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	429.99300	-0.75
T_{min} (-10)	DC 4.5	429.99294	-0.81
	DC 3.4	429.99296	-0.79
T_{max} (+40)	DC 4.5	429.99294	-0.81
	DC 3.4	429.99291	-0.84
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 429.99375MHz	
Result		Pass	

450.00625Mhz of 12.5 kHz Channel Separation

Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	450.00600	-0.25
T_{min} (-10)	DC 4.5	450.00592	-0.33
	DC 3.4	450.00597	-0.28
T_{max} (+40)	DC 4.5	450.00592	-0.33
	DC 3.4	450.00595	-0.30
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 450.00625MHz	
Result		Pass	

460.00000Mhz of 12.5 kHz Channel Separation

Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	460.00000	0.00
T_{min} (-10)	DC 4.5	459.99991	-0.09
	DC 3.4	459.99994	-0.06
T_{max} (+40)	DC 4.5	459.99993	-0.07
	DC 3.4	459.99999	-0.01
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 460.00000MHz	
Result		Pass	

469.99375Mhz of 12.5 kHz Channel Separation

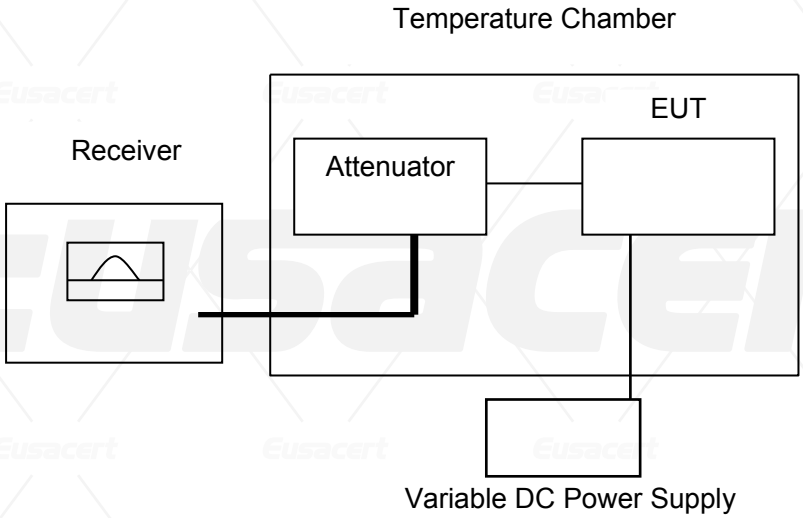
Test Condition		Frequency Measured (MHz)	Frequency Error (kHz)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	469.99370	-0.05
T_{min} (-10)	DC 4.5	469.99363	-0.12
	DC 3.4	469.99365	-0.10
T_{max} (+40)	DC 4.5	469.99364	-0.11
	DC 3.4	469.99361	-0.14
Limit		Normal=±1.50kHz, Extreme=±2.50kHz @ 469.99375MHz	
Result		Pass	

4.1.2. Transmitter Power (CONDUCTED)

LIMIT

ETSI EN 300 113 V2.2.1 (2016-12) Sub-clause 7.2.3
The transmitter power (conducted) under the specified conditions of measurement (see clause 7.2.2) and at normal test conditions (see clause 5.3), shall be within ±1,5 dB of the rated output power (conducted).
The transmitter power (conducted) under extreme test conditions shall be within +2,0 dB and -3,0 dB of the rated output
power.
It is assumed that the appropriate National Administration will state the maximum permitted transmitter output power..

TEST CONFIGURATION



TEST PROCEDURE

1. Please refer to ETSI EN 300 113(V2.2.1) Sub-clause 5.3 and 5.4 for the test conditions.
2. Please refer to ETSI EN 300 113(V2.2.1) Sub-clause 7.2.2 for the measurement method.

TEST RESULTS

High Power

406.10625Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	30.05	0.05
T_{min} (-10)	DC 4.5	29.54	-0.46
	DC 3.4	29.51	-0.49
T_{max} (+40)	DC 4.5	30.57	0.57
	DC 3.4	30.52	0.52
Nominal Power= 30dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

418.05625Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	29.98	-0.02
T_{min} (-10)	DC 4.5	29.72	-0.28
	DC 3.4	29.71	-0.29
T_{max} (+40)	DC 4.5	30.72	0.72
	DC 3.4	30.48	0.48
Nominal Power= 30dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

429.99375Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	29.95	-0.05
T_{min} (-10)	DC 4.5	29.72	-0.28
	DC 3.4	29.68	-0.32
T_{max} (+40)	DC 4.5	30.72	0.72
	DC 3.4	30.43	0.43
Nominal Power= 30dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

450.00625Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	29.88	-0.12
T_{min} (-10)	DC 4.5	29.59	-0.41
	DC 3.4	29.39	-0.61
T_{max} (+40)	DC 4.5	30.77	0.77
	DC 3.4	30.55	0.55
Nominal Power= 30dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

460.00000Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	30.04	0.04
T_{min} (-10)	DC 4.5	29.47	-0.53
	DC 3.4	29.41	-0.59
T_{max} (+40)	DC 4.5	30.43	0.43
	DC 3.4	30.32	0.32
Nominal Power= 30dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

469.99375Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	30.07	0.07
T_{min} (-10)	DC 4.5	29.49	-0.51
	DC 3.4	29.56	-0.44
T_{max} (+40)	DC 4.5	30.47	0.47
	DC 3.4	30.33	0.33
Nominal Power= 30dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

Low Power

406.10625Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	27.23	0.23
T_{min} (-10)	DC 4.5	26.52	-0.48
	DC 3.4	26.55	-0.45
T_{max} (+40)	DC 4.5	27.63	0.63
	DC 3.4	27.44	0.44
Nominal Power= 27dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

418.05625Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	26.94	-0.06
T_{min} (-10)	DC 4.5	26.39	-0.61
	DC 3.4	26.48	-0.52
T_{max} (+40)	DC 4.5	27.75	0.75
	DC 3.4	27.43	0.43
Nominal Power= 27dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

429.99375Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	27.23	0.23
T_{min} (-10)	DC 4.5	26.57	-0.43
	DC 3.4	26.57	-0.43
T_{max} (+40)	DC 4.5	27.47	0.47
	DC 3.4	27.33	0.33
Nominal Power= 27dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

450.00625Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	27.27	0.27
T_{min} (-10)	DC 4.5	26.42	-0.58
	DC 3.4	26.54	-0.46
T_{max} (+40)	DC 4.5	27.61	0.61
	DC 3.4	27.42	0.42
Nominal Power= 27dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

460.00000Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	27.00	0.00
T_{min} (-10)	DC 4.5	26.58	-0.42
	DC 3.4	26.73	-0.27
T_{max} (+40)	DC 4.5	27.45	0.45
	DC 3.4	27.29	0.29
Nominal Power= 27dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

469.99375Mhz of 12.5 kHz Channel Separation

Test Condition		Conducted Power (dBm)	Power Error (dB)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	27.25	0.25
T_{min} (-10)	DC 4.5	26.71	-0.29
	DC 3.4	26.63	-0.37
T_{max} (+40)	DC 4.5	27.59	0.59
	DC 3.4	27.52	0.52
Nominal Power= 27dBm; Limit n=±1.5 dB and Limit e=+2.0 dB & -3.0 dB			
Result		Pass	

4.1.3. Maximum Effective Radiated Power

LIMIT

N/A

MEASUREMENT EQUIPMENT USED

N/A

TEST PROCEDURE

N/A

TEST CONFIGURATION

N/A

TEST RESULTS

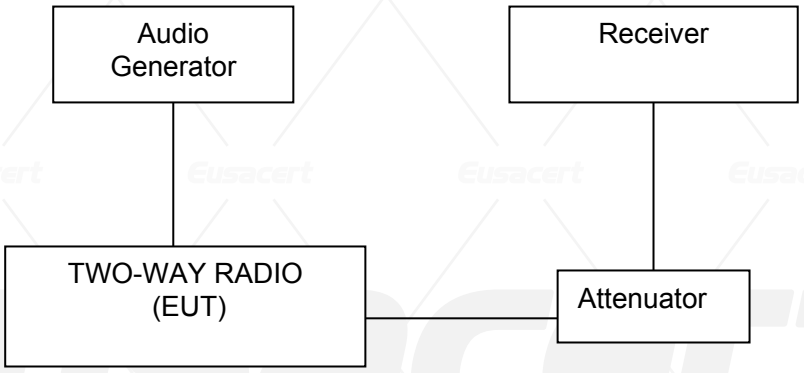
Not applicable TO device with external RF Port

4.1.4. Adjacent and alternate channel power

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 7.4.3
For a channel separation of 12,5 kHz, 20 kHz and 25 kHz, the adjacent channel power and the alternate channel power shall not exceed a value of 60,0 dB below the transmitter power (conducted) without the need to be below 0,2 µW (-37 dBm).

TEST CONFIGURATION



TEST PROCEDURE

1. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 5.3 for the test conditions.
2. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 7.4.3 for the measurement method.

TEST RESULTS
Test Result of Adjacent Channel Power:

406.10625MHz of 12.5 kHz Channel Separation

Test Condition		Test Channel	Reading (dBc)	limit (dBc)
Temperature (℃)	Voltage (V)			
T_{nor} (+25)	V nor(4.2)	Low adjacent	-60.1	-60
		Upper adjacent	-61.0	-60
		Low alternate	-62.4	-60
		Upper alternate	-62.2	-60

418.05625MHz of 12.5 kHz Channel Separation

Test Condition		Test Channel	Reading (dBc)	limit (dBc)
Temperature (℃)	Voltage (V)			
T_{nor} (+25)	V nor(4.2)	Low adjacent	-60.1	-60
		Upper adjacent	-60.4	-60
		Low alternate	-61.8	-60
		Upper alternate	-62.1	-60

429.99375MHz of 12.5 kHz Channel Separation

Test Condition		Test Channel	Reading (dBc)	limit (dBc)
Temperature (℃)	Voltage (V)			
T_{nor} (+25)	V nor(4.2)	Low adjacent	-60.0	-60
		Upper adjacent	-61.1	-60
		Low alternate	-62.2	-60
		Upper alternate	-62.0	-60

450.00625MHz of 12.5 kHz Channel Separation

Test Condition		Test Channel	Reading (dBc)	limit (dBc)
Temperature (℃)	Voltage (V)			
T_{nor} (+25)	V nor(4.2)	Low adjacent	-60.7	-60
		Upper adjacent	-61.3	-60
		Low alternate	-61.8	-60
		Upper alternate	-61.9	-60

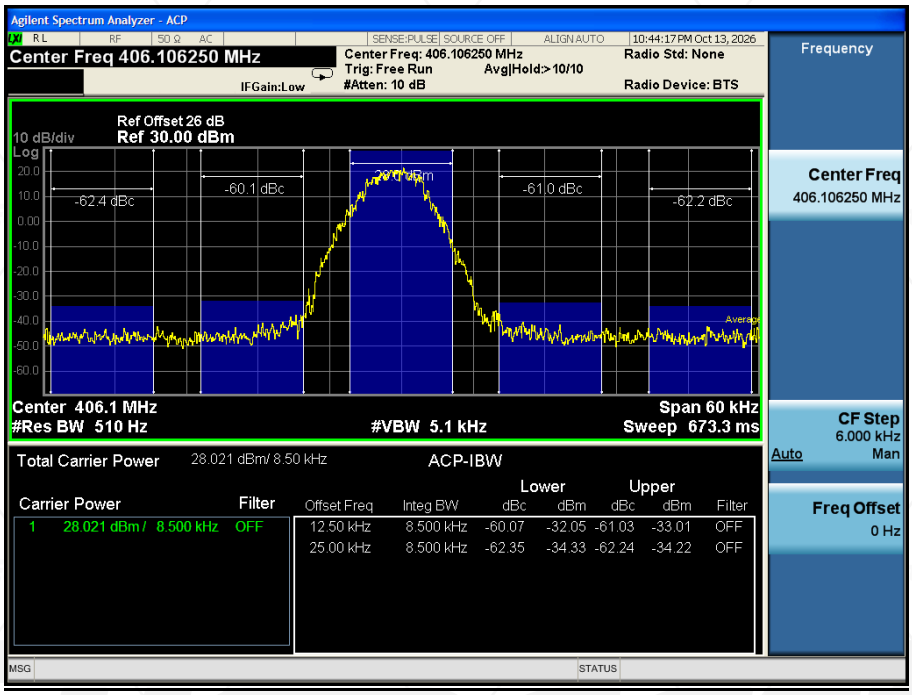
460.00000MHz of 12.5 kHz Channel Separation

Test Condition		Test Channel	Reading (dBc)	limit (dBc)
Temperature (℃)	Voltage (V)			
T_{nor} (+25)	V nor(4.2)	Low adjacent	-60.2	-60
		Upper adjacent	-61.1	-60
		Low alternate	-61.6	-60
		Upper alternate	-61.5	-60

469.99375MHz of 12.5 kHz Channel Separation

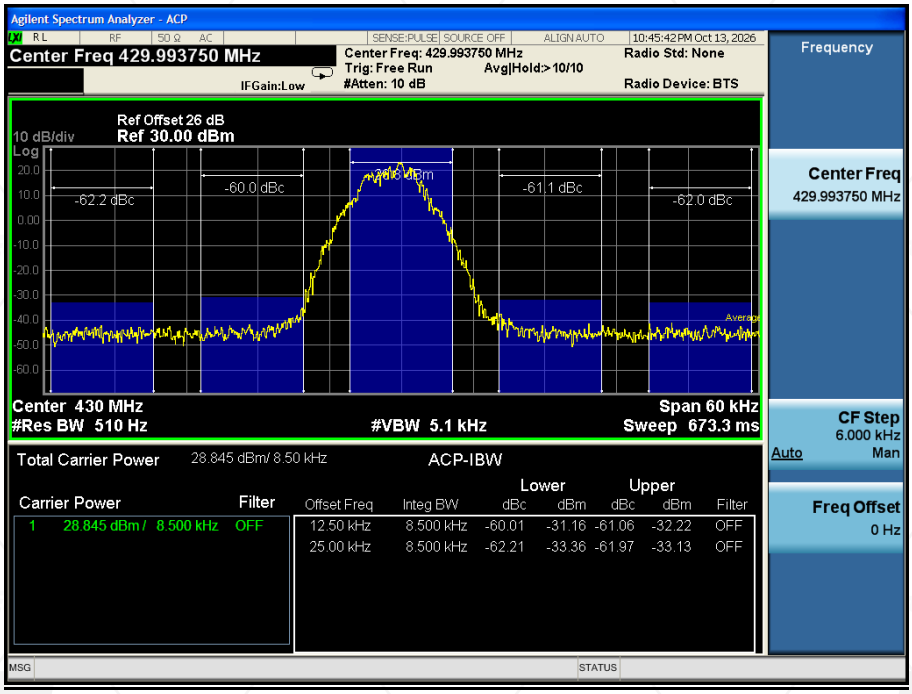
Test Condition		Test Channel	Reading (dBc)	limit (dBc)
Temperature (℃)	Voltage (V)			
T_{nor} (+25)	V nor(4.2)	Low adjacent	-61.1	-60
		Upper adjacent	-60.1	-60
		Low alternate	-61.9	-60
		Upper alternate	-61.8	-60

406.10625MHz

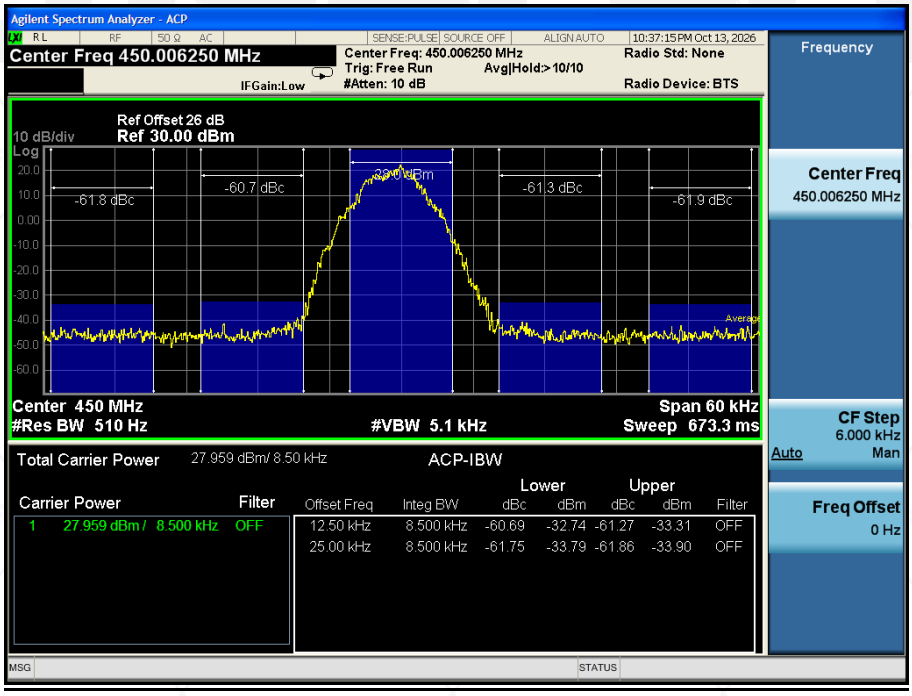


418.05625MHz

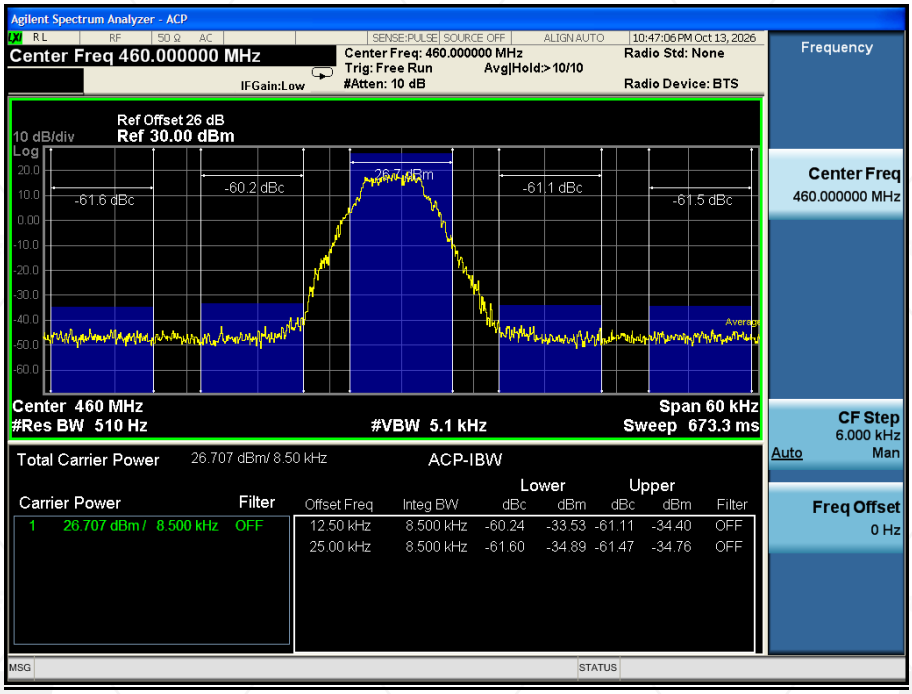
429.99375MHz



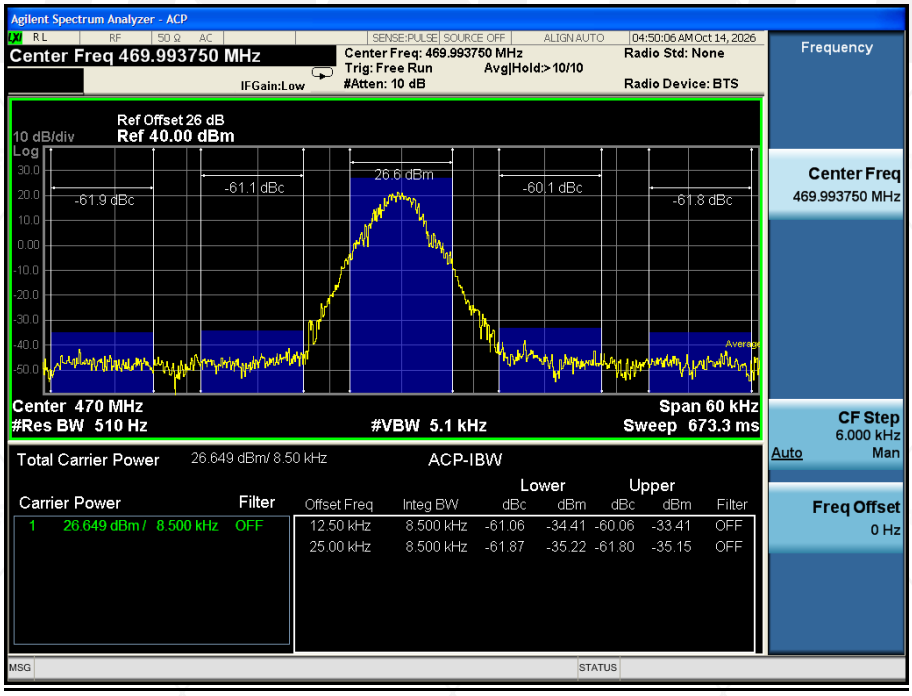
450.00625MHz



460.00000MHz



469.99375MHz



4.1.5. Unwanted emissions in the spurious domain

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 7.5.4
Spurious emission as defined in ETSI EN 300 113Sub-clause 7.5.4, The power of any spurious emission shall not exceed the values given in tables 4 and 5.

Table 4: Conducted emissions

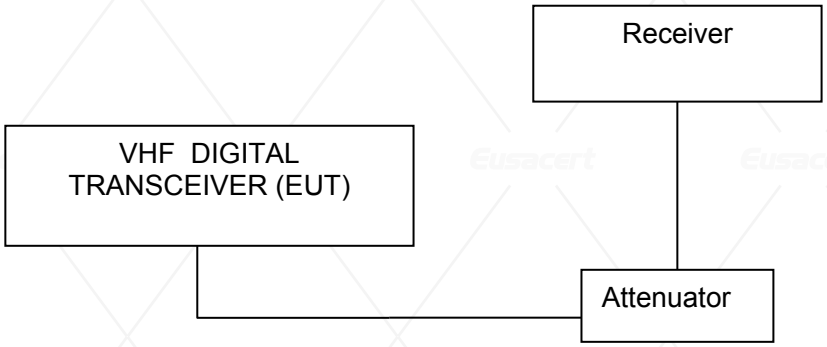
Frequency range	Tx operating	Tx standby
9 kHz to 1 GHz	0,25 µW (-36 dBm)	2,0 nW (-57 dBm)
above 1 GHz to 4 GHz or above 1 GHz to 12,75 GHz	1,00 µW (-30 dBm)	20 nW (-47 dBm)

Table 5: Radiated emissions

Frequency range	Tx operating	Tx standby
30 MHz to 1 GHz	0,25 µW (-36 dBm)	2,0 nW (-57 dBm)
above 1 GHz to 4 GHz or above 1 GHz to 12,75 GHz	1,00 µW (-30 dBm)	20 nW (-47 dBm)

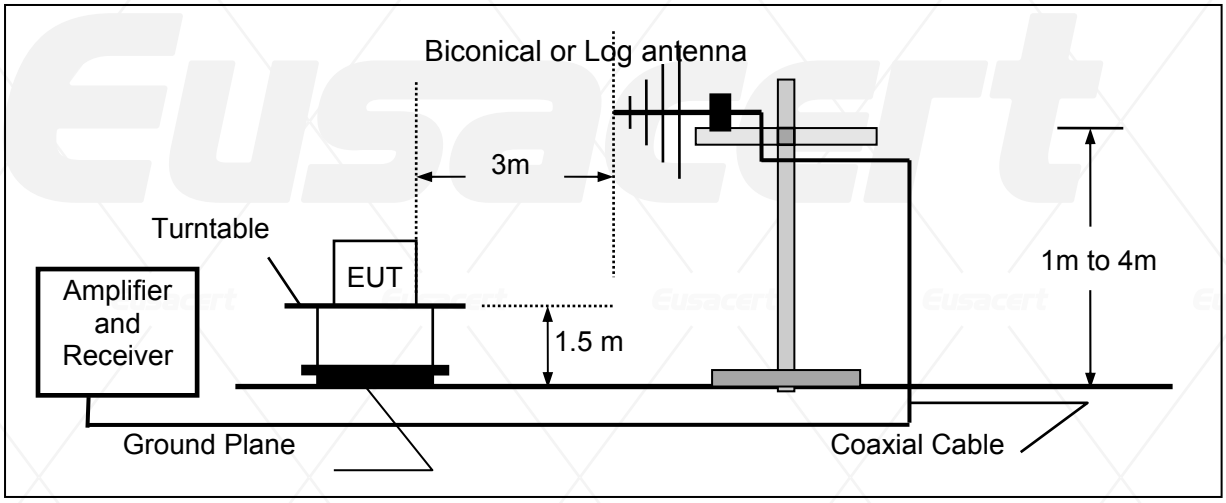
TEST CONFIGURATION

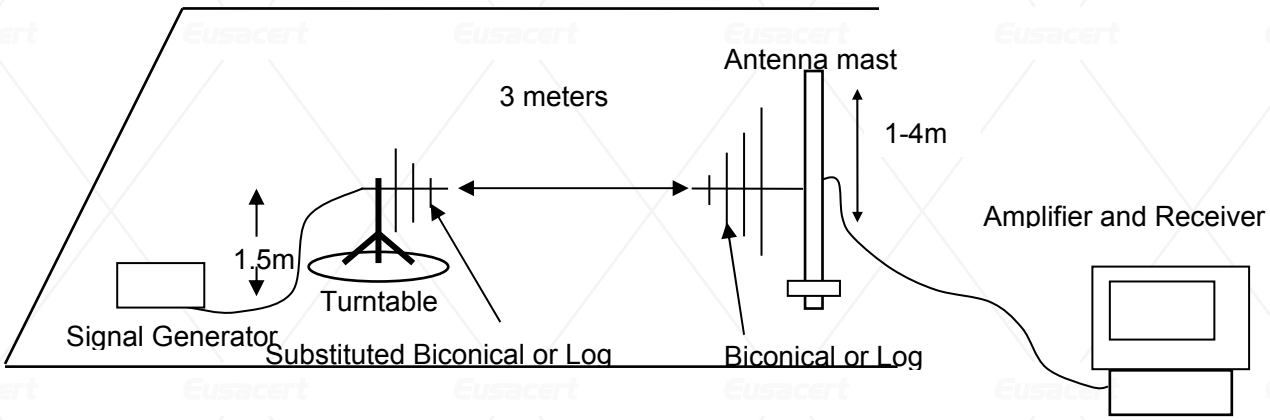
Conducted Measurement (9 kHz to 12.75GHz)



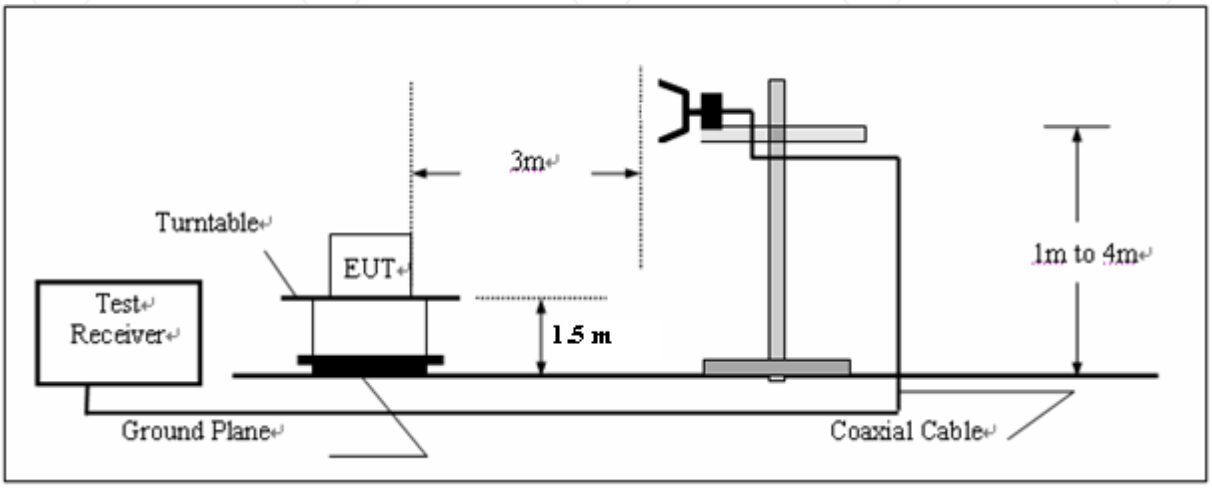
Effective Radiated Power measurement (30MHz to 12.75 GHz)

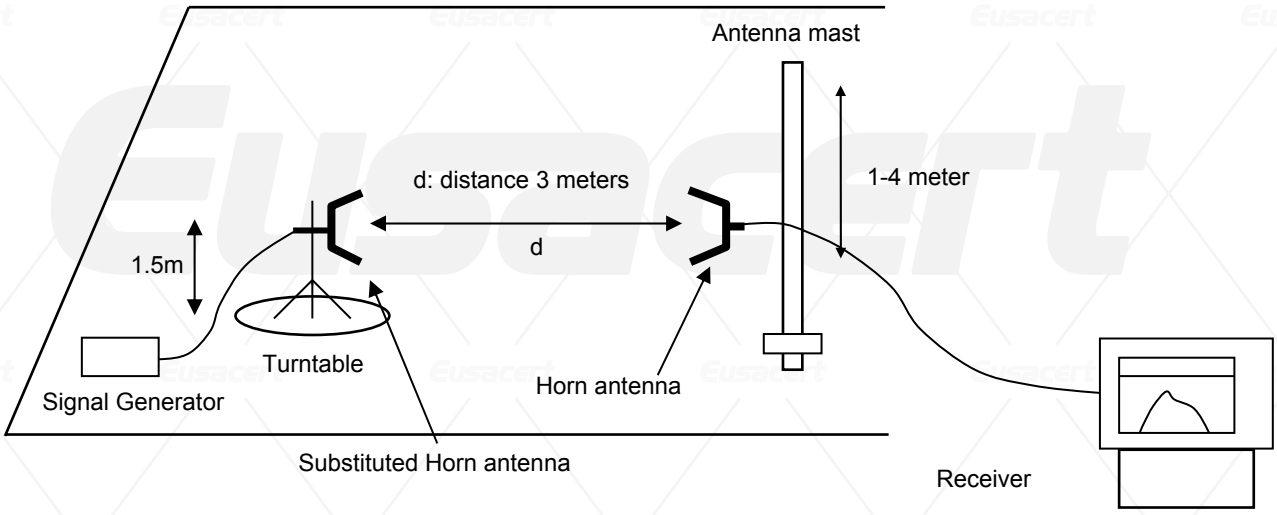
Below 1GHz





Above 1GHz


3m
Turntable
EUT
Test
Receiver
1.5 m
1m to 4m
Ground Plane
Coaxial Cable


Antenna mast
d: distance 3 meters
d
1-4 meter
1.5m
Turntable
Signal Generator
Horn antenna
Substituted Horn antenna
Receiver

TEST PROCEDURE

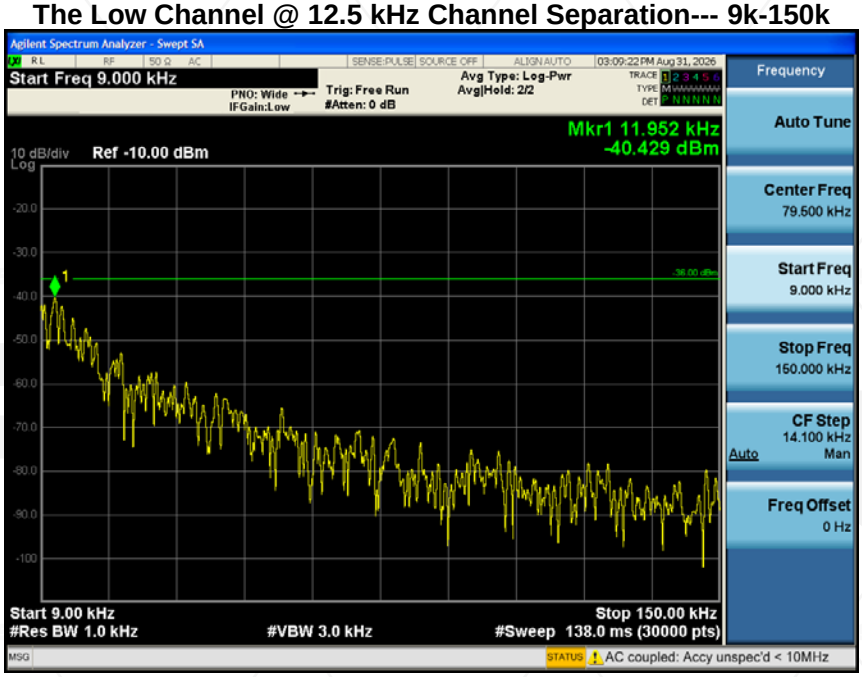
1. Please refer to ETSI EN 300 113(V1.7.1) Sub-clause 5.3 for the test conditions.
2. Please refer to ETSI EN 300 113(V1.7.1) Sub-clause 7.6.2 and 7.6.3 for the measurement method.

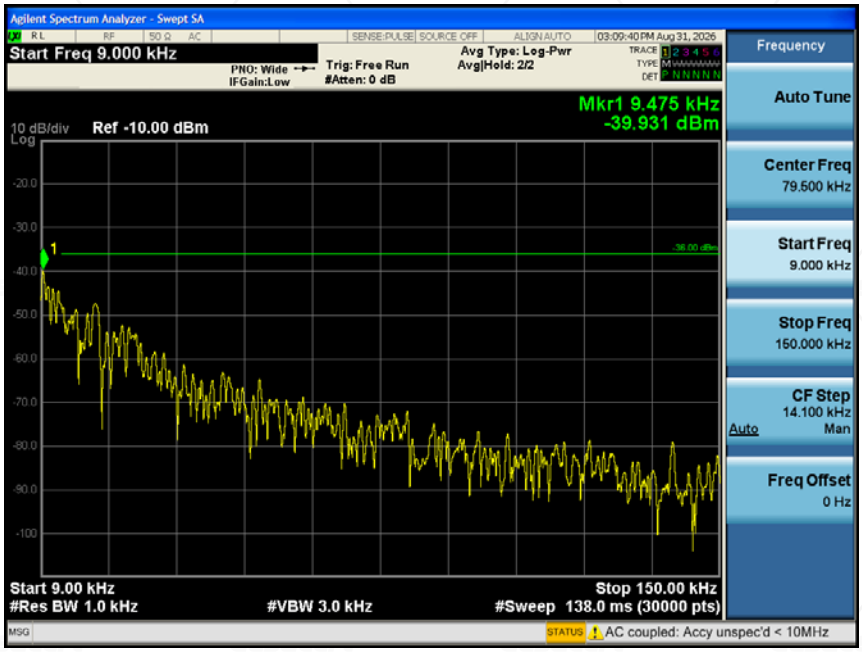
TEST RESULTS

Conducted Measurement (9 kHz to 12.75GHz) --- PASS

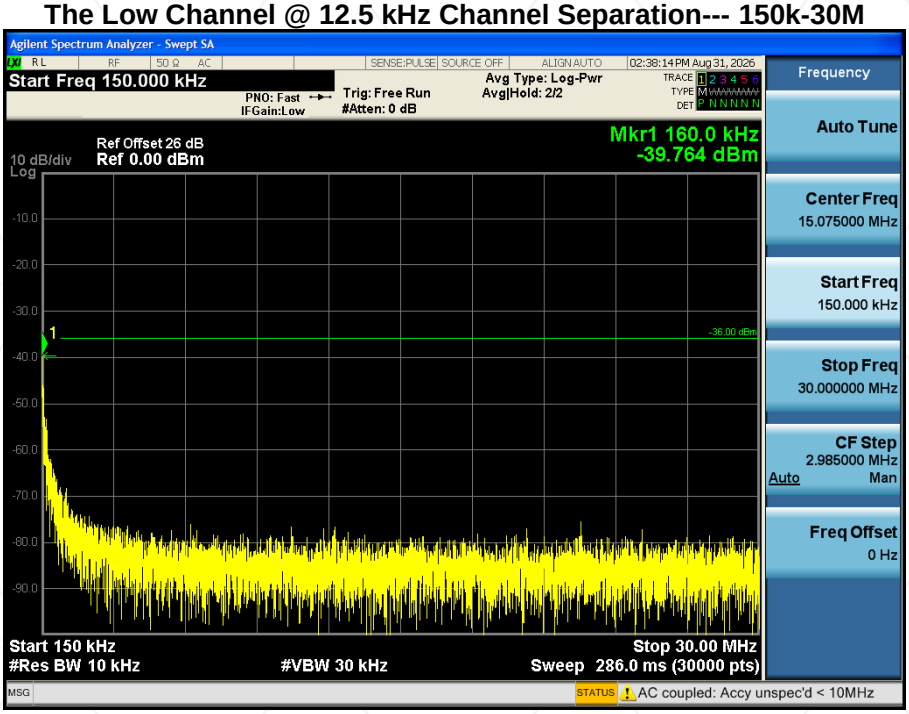
UNWANTED EMISSIONS AT BOTTOM CHANNEL
Conducted measurement (9 kHz to 4 GHz) ---PASS (TX operating)

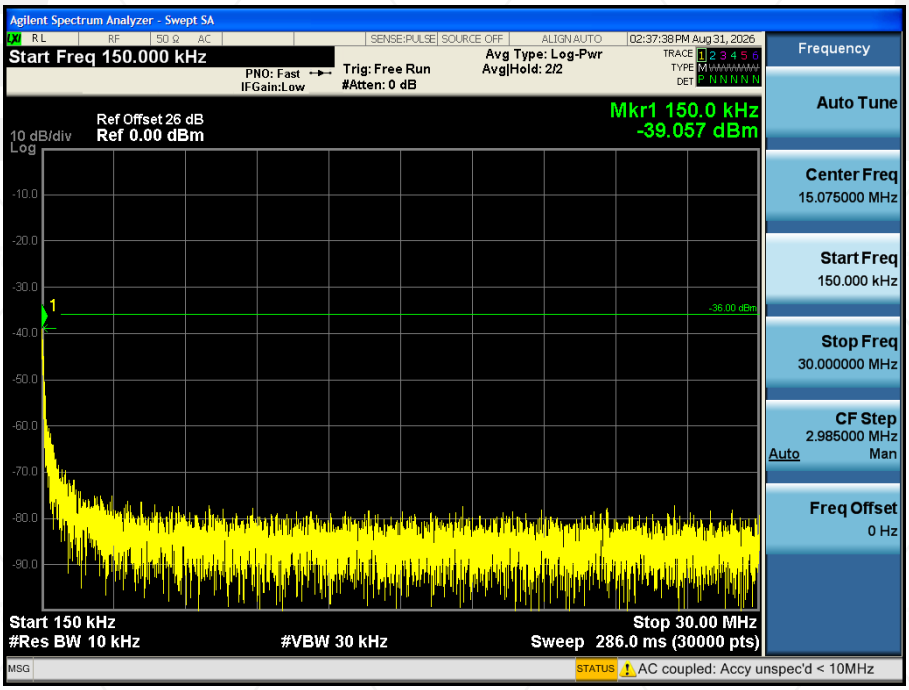
The Low Channel @ 12.5 kHz Channel Separation--- 9k-150k



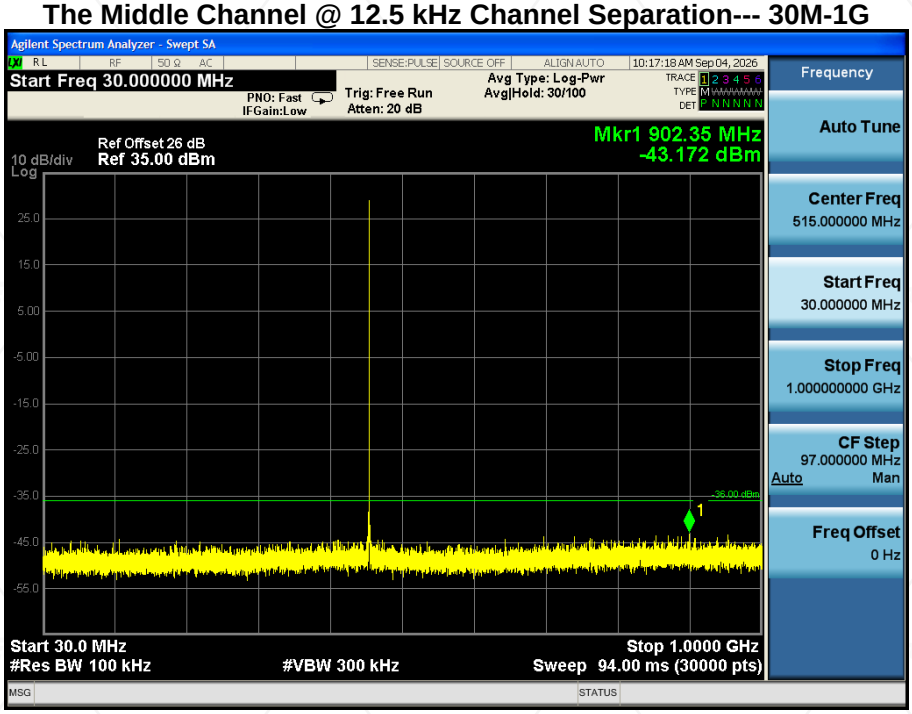


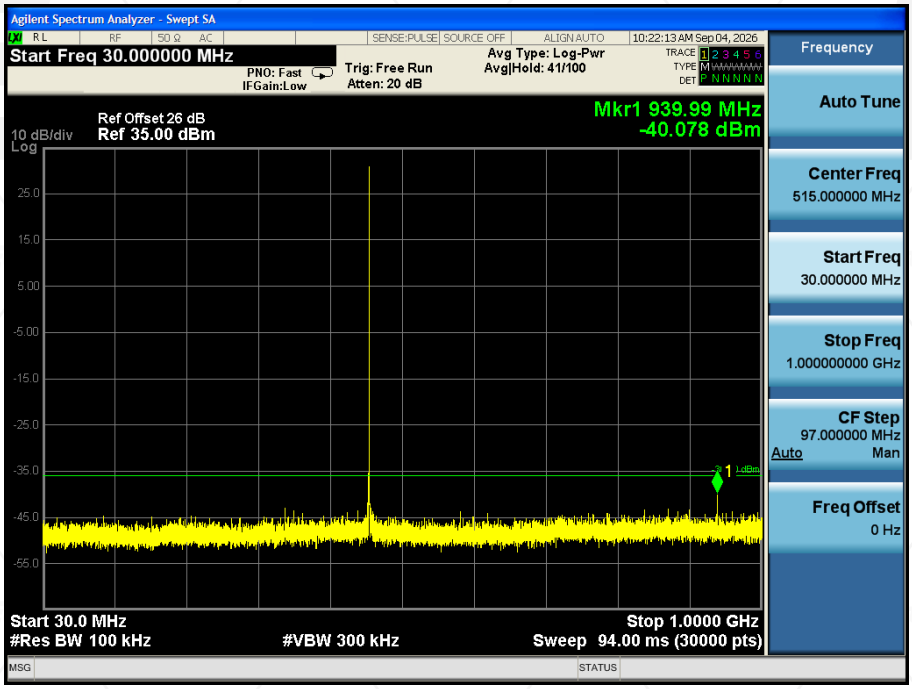
The Low Channel @ 12.5 kHz Channel Separation--- 150k-30M



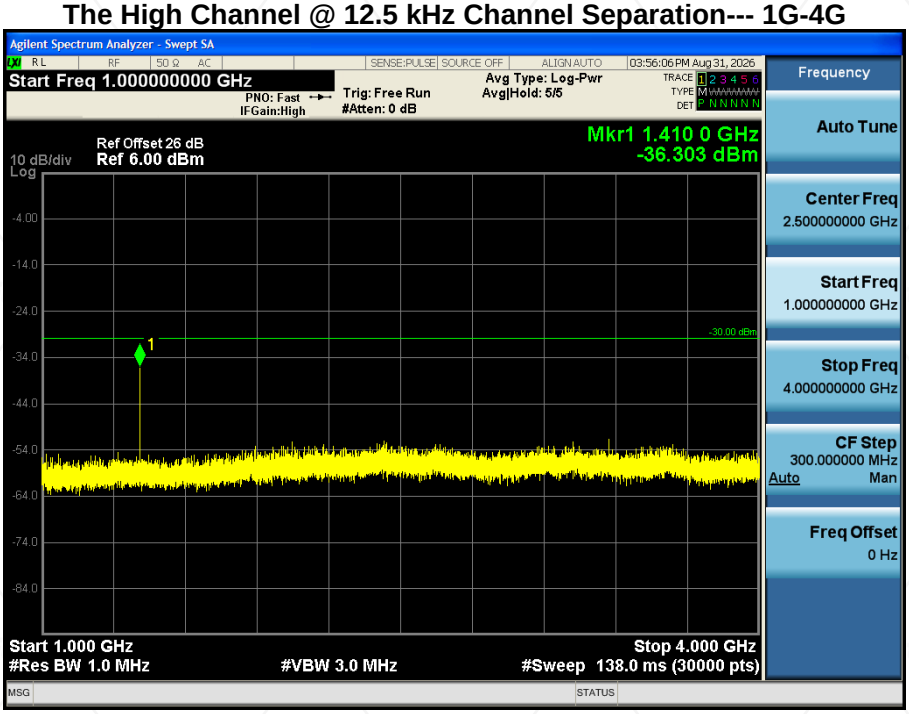


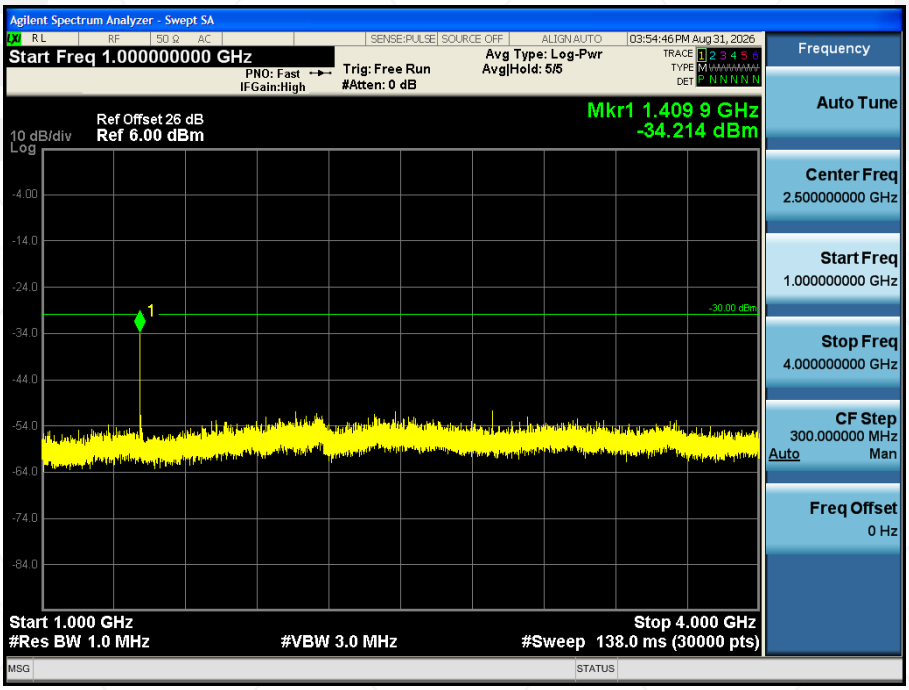
The Middle Channel @ 12.5 kHz Channel Separation--- 30M-1G





The High Channel @ 12.5 kHz Channel Separation--- 1G-4G

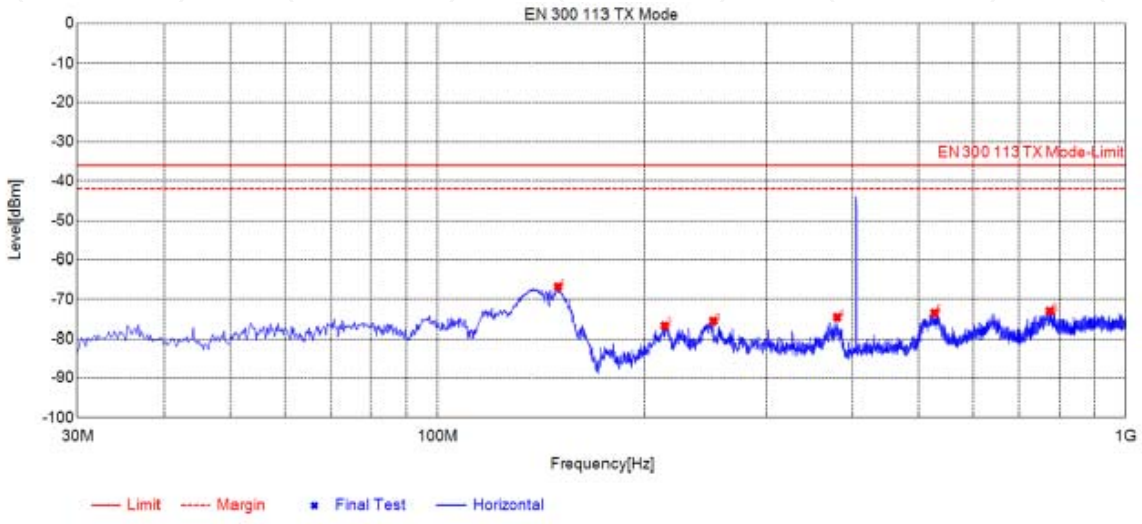




Effective Radiated Power measurement (30 MHz to 12.75GHz) --- PASS

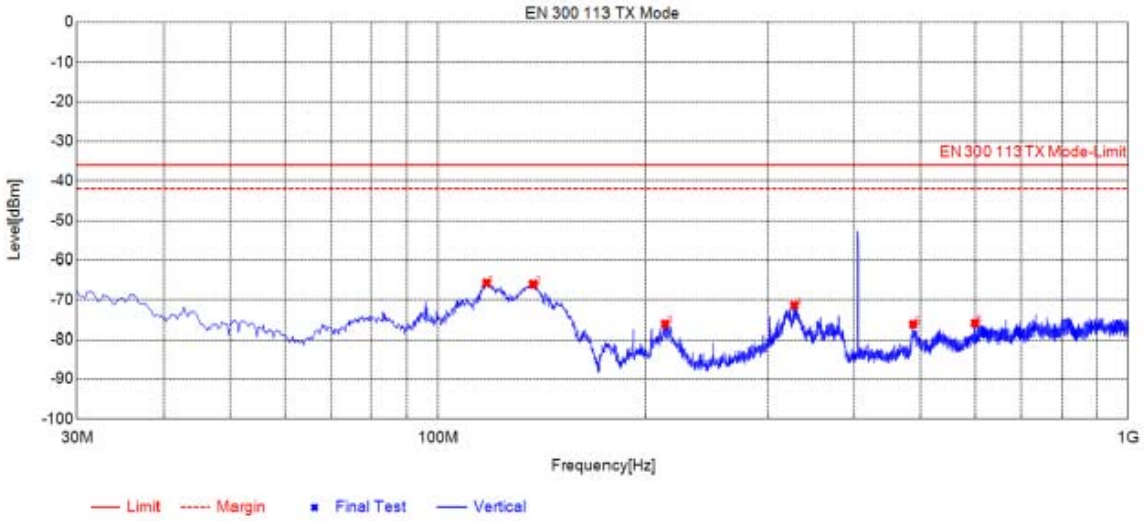
All Channels for for 12.5 kHz Channel Separation/UHF

Low Channel



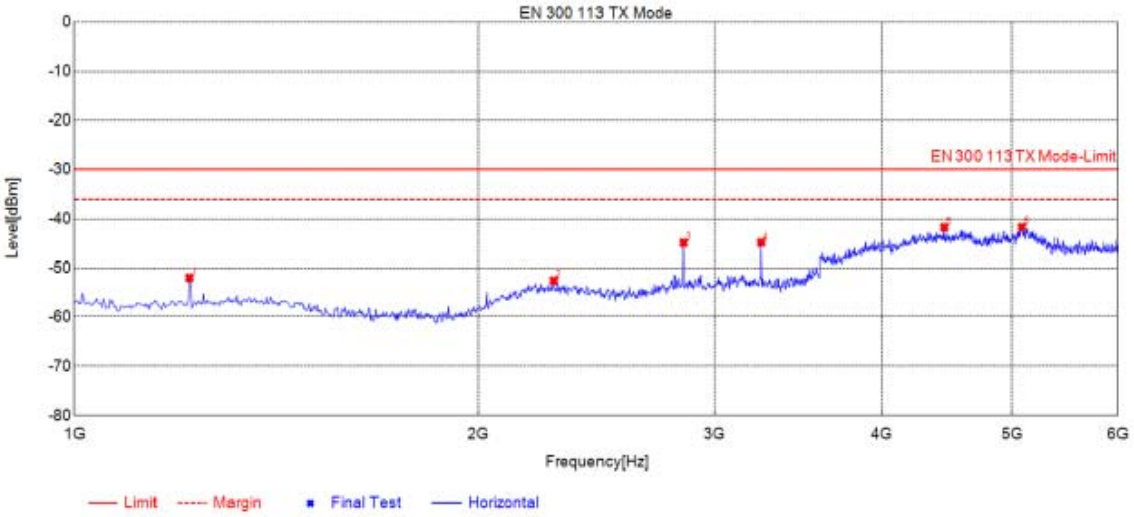
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	149.527	-69.18	-66.79	-36.00	30.79	2.39	Horizontal
2	213.948	-80.18	-76.85	-36.00	40.85	3.33	Horizontal
3	251.398	-81.56	-75.61	-36.00	39.61	5.95	Horizontal
4	380.046	-76.56	-74.64	-36.00	38.64	1.92	Horizontal
5	526.933	-77.88	-73.57	-36.00	37.57	4.31	Horizontal
6	775.885	-81.23	-73.08	-36.00	37.08	8.15	Horizontal



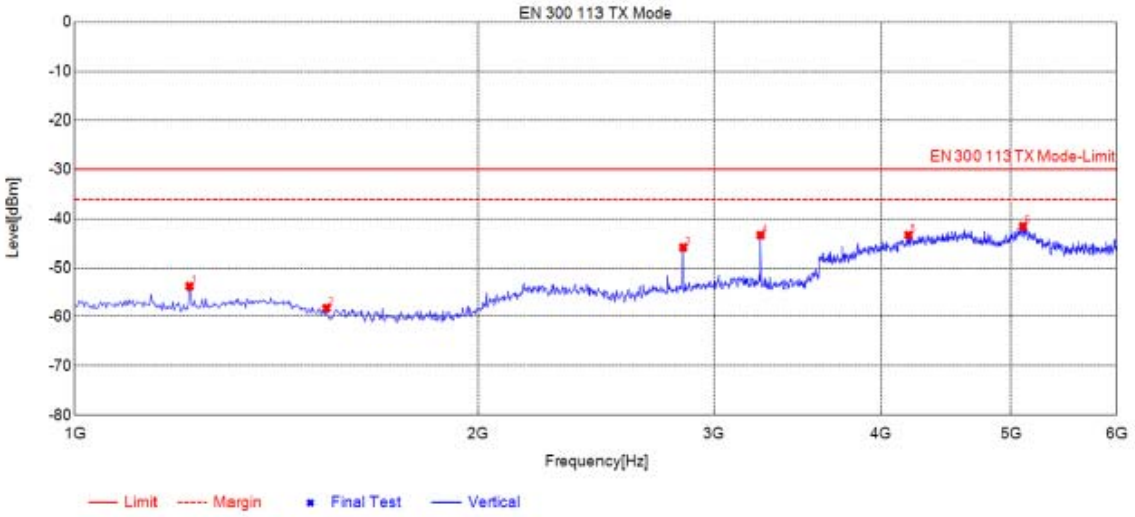
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	117.511	-73.52	-65.67	-36.00	29.67	7.85	Vertical
2	137.303	-65.44	-65.98	-36.00	29.98	-0.54	Vertical
3	213.366	-75.59	-76.19	-36.00	40.19	-0.60	Vertical
4	328.043	-73.05	-71.46	-36.00	35.46	1.59	Vertical
5	486.961	-79.82	-76.28	-36.00	40.28	3.54	Vertical
6	599.892	-81.43	-75.99	-36.00	39.99	5.44	Vertical



Suspected List

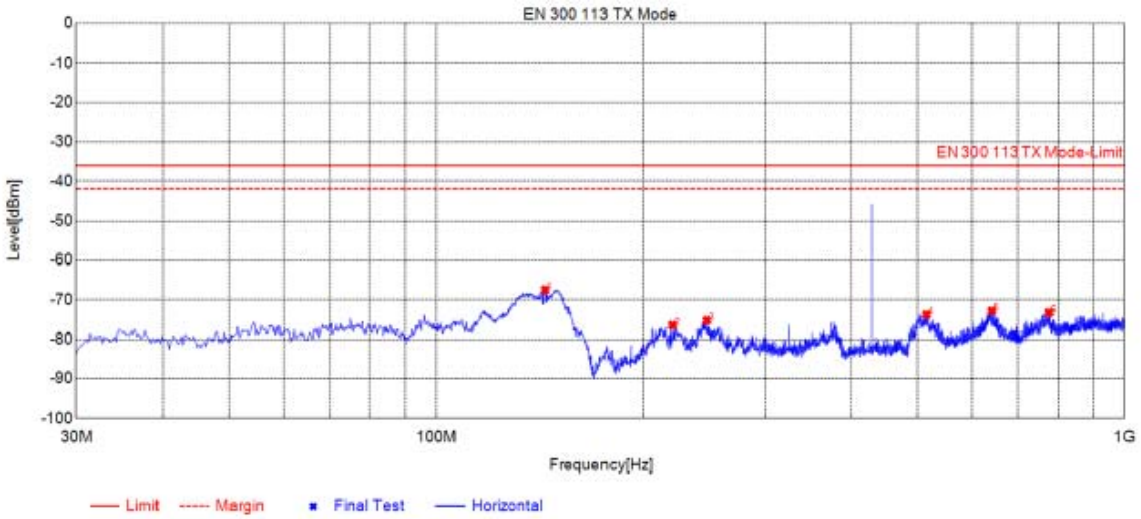
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1217.60	-48.08	-52.01	-30.00	22.01	-3.93	Horizontal
2	2275.63	-52.43	-52.57	-30.00	22.57	-0.14	Horizontal
3	2843.42	-45.24	-44.87	-30.00	14.87	0.37	Horizontal
4	3248.62	-45.69	-44.84	-30.00	14.84	0.85	Horizontal
5	4451.72	-47.84	-41.73	-30.00	11.73	6.11	Horizontal
6	5087.04	-51.58	-41.71	-30.00	11.71	9.87	Horizontal



Suspected List

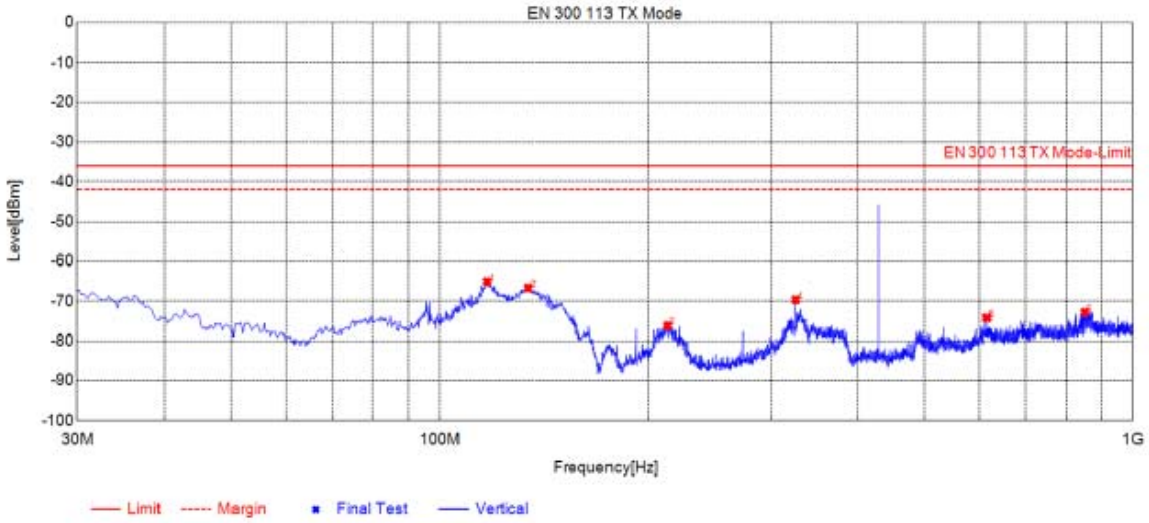
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1217.60	-49.13	-53.75	-30.00	23.75	-4.62	Vertical
2	1540.27	-53.25	-58.28	-30.00	28.28	-5.03	Vertical
3	2843.42	-45.67	-45.93	-30.00	15.93	-0.26	Vertical
4	3248.62	-44.18	-43.39	-30.00	13.39	0.79	Vertical
5	4189.09	-47.64	-43.38	-30.00	13.38	4.26	Vertical
6	5104.55	-51.35	-41.55	-30.00	11.55	9.80	Vertical

Middle Channel



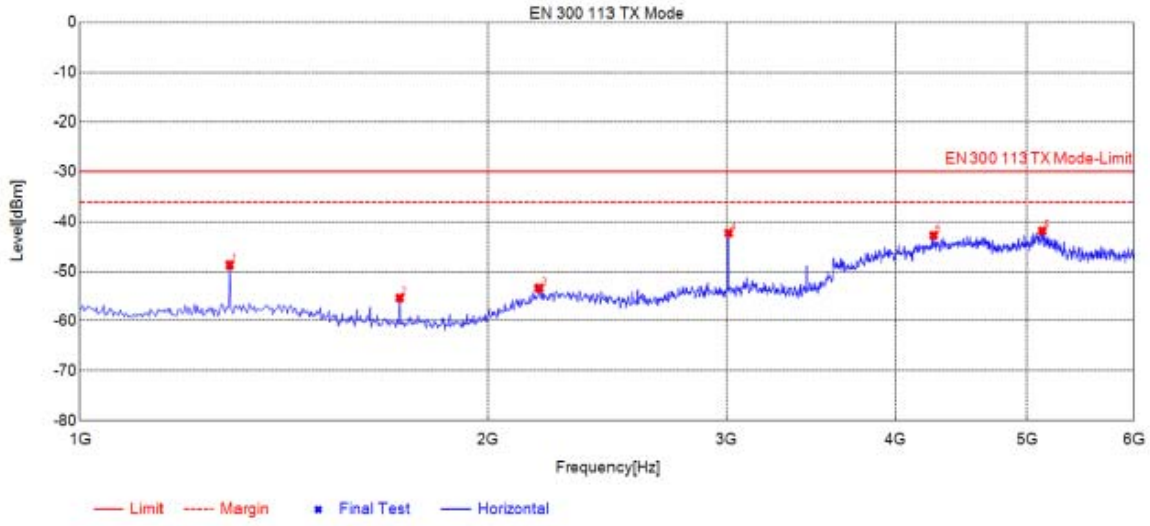
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	143.706	-68.51	-67.51	-36.00	31.51	1.00	Horizontal
2	220.546	-79.57	-76.46	-36.00	40.46	3.11	Horizontal
3	246.935	-80.94	-75.27	-36.00	39.27	5.67	Horizontal
4	514.903	-77.54	-73.80	-36.00	37.80	3.74	Horizontal
5	640.252	-80.53	-72.86	-36.00	36.86	7.67	Horizontal
6	776.467	-81.43	-73.28	-36.00	37.28	8.15	Horizontal



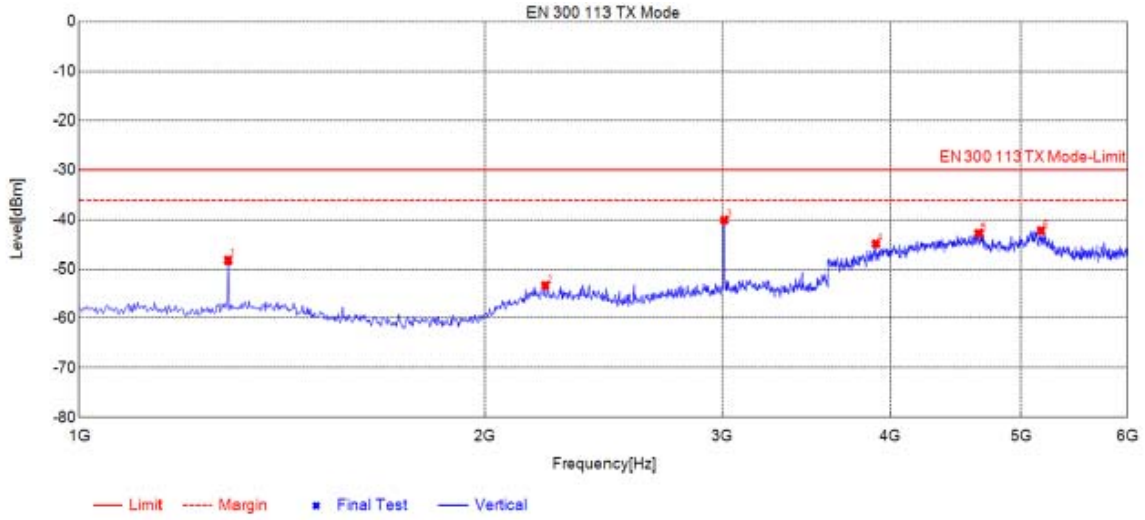
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	116.929	-73.28	-65.07	-36.00	29.07	8.21	Vertical
2	134.198	-66.27	-66.69	-36.00	30.69	-0.42	Vertical
3	213.172	-75.63	-76.20	-36.00	40.20	-0.57	Vertical
4	325.909	-71.11	-69.68	-36.00	33.68	1.43	Vertical
5	614.833	-80.08	-74.21	-36.00	38.21	5.87	Vertical
6	850.590	-80.78	-72.83	-36.00	36.83	7.95	Vertical



Suspected List

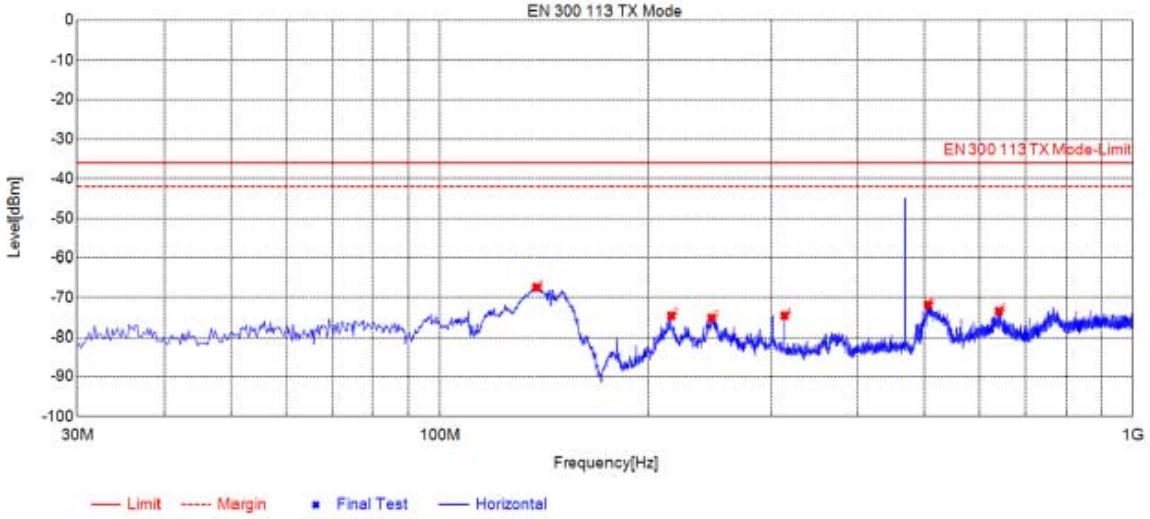
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1290.14	-45.33	-48.74	-30.00	18.74	-3.41	Horizontal
2	1720.36	-50.36	-55.37	-30.00	25.37	-5.01	Horizontal
3	2180.59	-53.04	-53.35	-30.00	23.35	-0.31	Horizontal
4	3011.00	-43.03	-42.31	-30.00	12.31	0.72	Horizontal
5	4264.13	-47.87	-42.80	-30.00	12.80	5.07	Horizontal
6	5132.06	-51.61	-41.87	-30.00	11.87	9.74	Horizontal



Suspected List

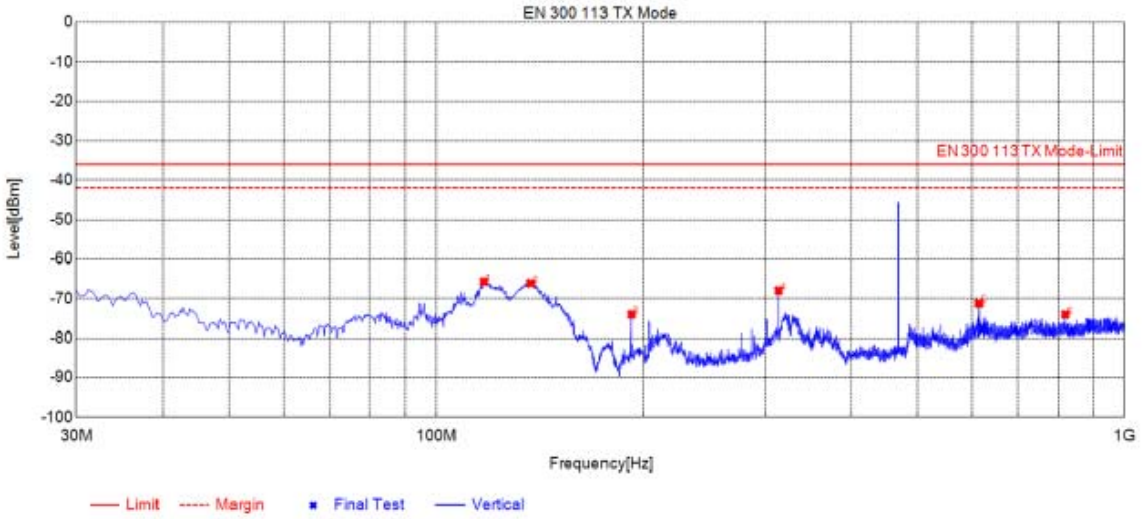
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1290.14	-44.41	-48.27	-30.00	18.27	-3.86	Vertical
2	2215.60	-53.25	-53.31	-30.00	23.31	-0.06	Vertical
3	3011.00	-40.87	-40.08	-30.00	10.08	0.79	Vertical
4	3901.45	-48.54	-44.95	-30.00	14.95	3.59	Vertical
5	4651.82	-49.60	-42.80	-30.00	12.80	6.80	Vertical
6	5174.58	-51.62	-42.26	-30.00	12.26	9.36	Vertical

High Channel



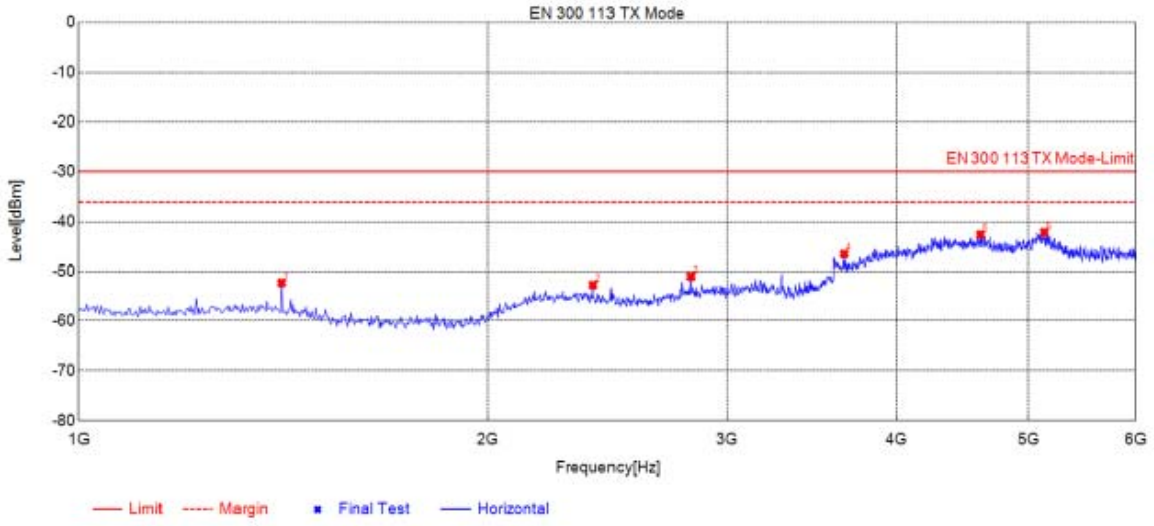
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	137.885	-67.00	-67.42	-36.00	31.42	-0.42	Horizontal
2	215.889	-77.96	-74.70	-36.00	38.70	3.26	Horizontal
3	246.353	-80.82	-75.25	-36.00	39.25	5.57	Horizontal
4	313.878	-76.23	-74.66	-36.00	38.66	1.57	Horizontal
5	505.589	-75.45	-71.87	-36.00	35.87	3.58	Horizontal
6	639.475	-81.24	-73.55	-36.00	37.55	7.69	Horizontal



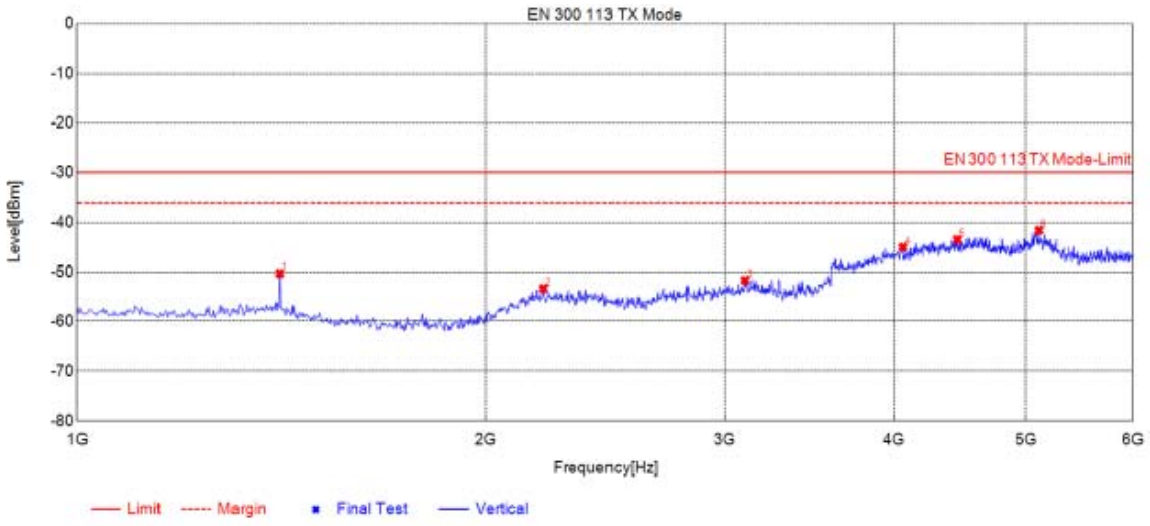
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	117.123	-73.77	-65.68	-36.00	29.68	8.09	Vertical
2	137.109	-65.58	-66.11	-36.00	30.11	-0.53	Vertical
3	192.022	-72.29	-74.05	-36.00	38.05	-1.76	Vertical
4	313.878	-68.57	-67.98	-36.00	31.98	0.59	Vertical
5	614.056	-77.11	-71.25	-36.00	35.25	5.86	Vertical
6	818.573	-82.02	-74.10	-36.00	38.10	7.92	Vertical



Suspected List

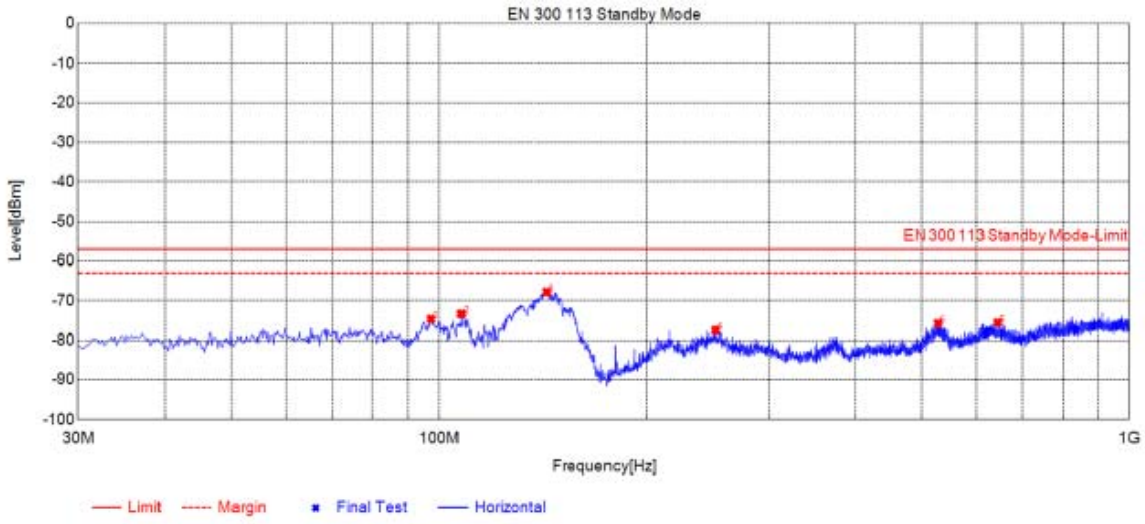
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1410.20	-49.00	-52.30	-30.00	22.30	-3.30	Horizontal
2	2390.69	-52.22	-52.75	-30.00	22.75	-0.53	Horizontal
3	2820.91	-51.38	-51.02	-30.00	21.02	0.36	Horizontal
4	3656.32	-49.67	-46.56	-30.00	16.56	3.11	Horizontal
5	4611.80	-49.06	-42.62	-30.00	12.62	6.44	Horizontal
6	5137.06	-51.86	-42.16	-30.00	12.16	9.70	Horizontal



Suspected List

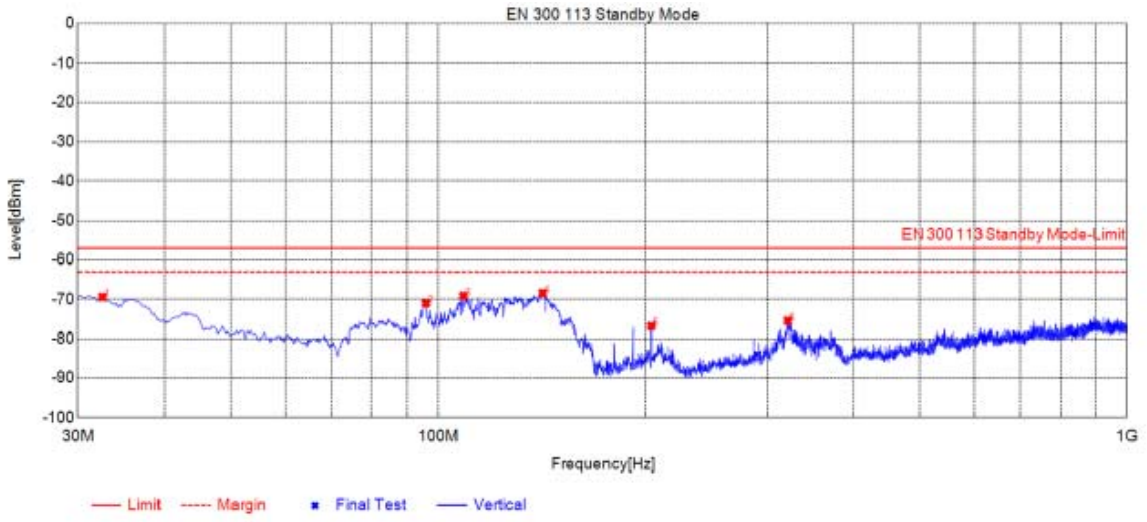
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1410.20	-46.96	-50.29	-30.00	20.29	-3.33	Vertical
2	2203.10	-53.38	-53.35	-30.00	23.35	0.03	Vertical
3	3106.05	-52.86	-51.69	-30.00	21.69	1.17	Vertical
4	4061.53	-48.54	-45.04	-30.00	15.04	3.50	Vertical
5	4451.72	-49.28	-43.50	-30.00	13.50	5.78	Vertical
6	5114.55	-51.37	-41.63	-30.00	11.63	9.74	Vertical

Standby Mode



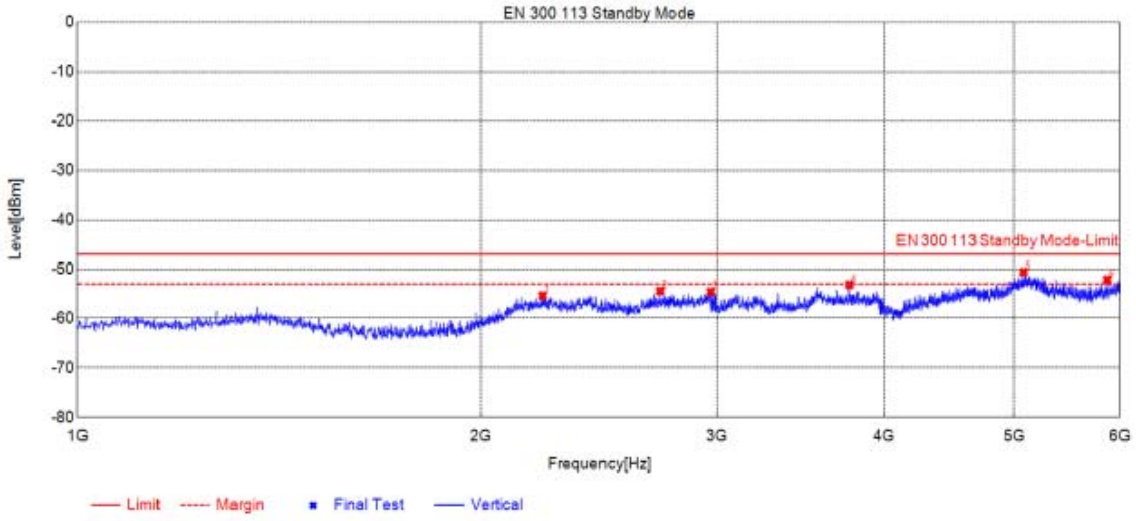
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	97.3315	-75.12	-74.72	-57.00	17.72	0.40	Horizontal
2	107.615	-76.14	-73.37	-57.00	16.37	2.77	Horizontal
3	142.930	-68.64	-67.83	-57.00	10.83	0.81	Horizontal
4	251.204	-83.46	-77.47	-57.00	20.47	5.99	Horizontal
5	527.515	-80.16	-75.82	-57.00	18.82	4.34	Horizontal
6	643.356	-83.24	-75.62	-57.00	18.62	7.62	Horizontal



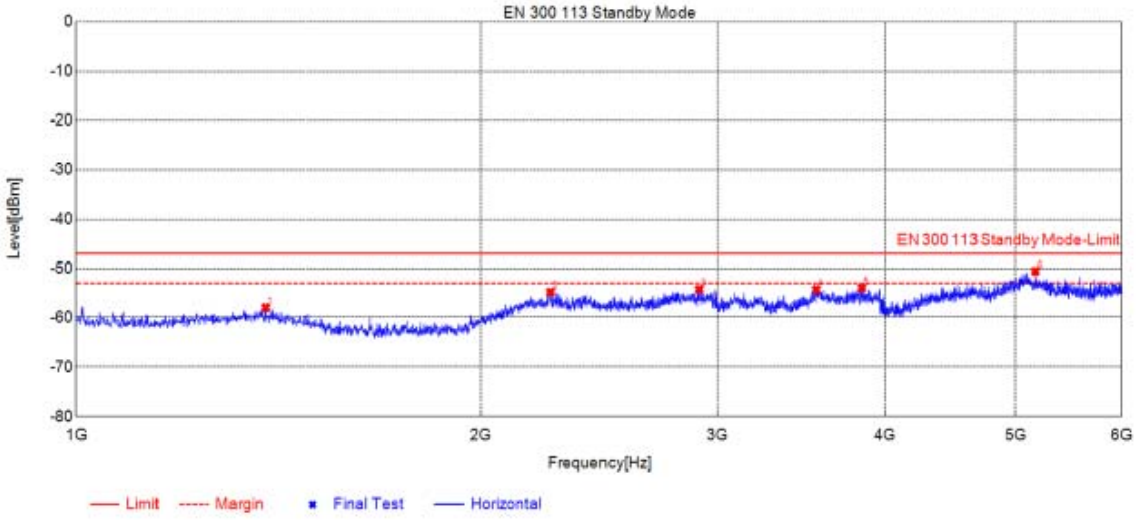
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	32.5225	-71.62	-69.44	-57.00	12.44	2.18	Vertical
2	95.9732	-75.48	-71.01	-57.00	14.01	4.47	Vertical
3	108.585	-80.91	-69.12	-57.00	12.12	11.79	Vertical
4	141.572	-67.73	-68.44	-57.00	11.44	-0.71	Vertical
5	203.858	-76.22	-76.82	-57.00	19.82	-0.60	Vertical
6	321.446	-76.59	-75.47	-57.00	18.47	1.12	Vertical



Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	2222.24	-55.29	-55.40	-47.00	8.40	-0.11	Vertical
2	2722.34	-53.76	-54.46	-47.00	7.46	-0.70	Vertical
3	2968.39	-55.13	-54.63	-47.00	7.63	0.50	Vertical
4	3765.55	-56.39	-53.19	-47.00	6.19	3.20	Vertical
5	5081.81	-60.25	-50.61	-47.00	3.61	9.64	Vertical
6	5869.97	-59.13	-52.15	-47.00	5.15	6.98	Vertical



Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1383.07	-54.79	-57.99	-47.00	10.99	-3.20	Horizontal
2	2252.25	-54.72	-54.82	-47.00	7.82	-0.10	Horizontal
3	2906.38	-54.65	-54.26	-47.00	7.26	0.39	Horizontal
4	3555.51	-57.01	-54.29	-47.00	7.29	2.72	Horizontal
5	3841.56	-57.86	-53.98	-47.00	6.98	3.88	Horizontal
6	5174.83	-59.94	-50.59	-47.00	3.59	9.35	Horizontal

Remark:

(1) Emission Level(dBm) = SG O/P-Cable + Ant Gain
(2) Measuring frequencies from 30 MHz to the 4GHz.
(3) Data of measurement within this frequency range shown “--” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

4.1.6. Intermodulation attenuation

This requirement applies only to transmitters to be used in Two-way Radios (fixed).

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 7.6.3

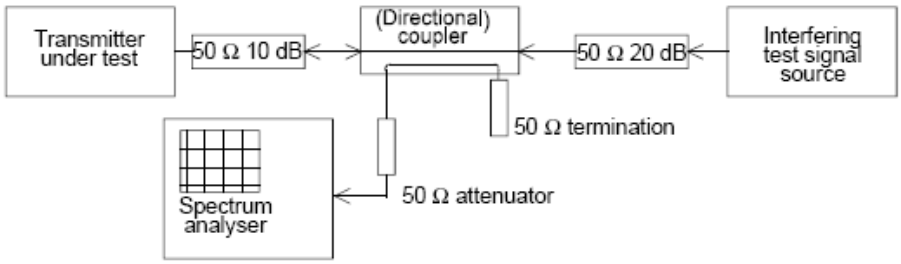
The intermodulation attenuation as defined in ETSI EN 300 113Sub-clause 7.6.3, Two classes of transmitter intermodulation attenuation are defined, the equipment shall fulfil one of the requirements:

• in general the intermodulation attenuation ratio shall be at least 40,0 dB for any intermodulation component;

• for base station equipment to be used in special service conditions (e.g. at sites where more than one transmitter will be in service) or when the regulatory authority makes it a condition of the licence, the intermodulation attenuation ratio shall be at least 70,0 dB for any intermodulation component. In the case where the performance is achieved by additional internal or external isolating devices (such as circulators)

these are expected be available at the time the measurements are made and shall be used for the measurements..

TEST CONFIGURATION



TEST PROCEDUR

1. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 5.3 for the test conditions.
2. Please refer to ETSI EN300 113 (V2.2.1) Sub-clause 7.6.2 for the measurement method.

TEST RESULTS

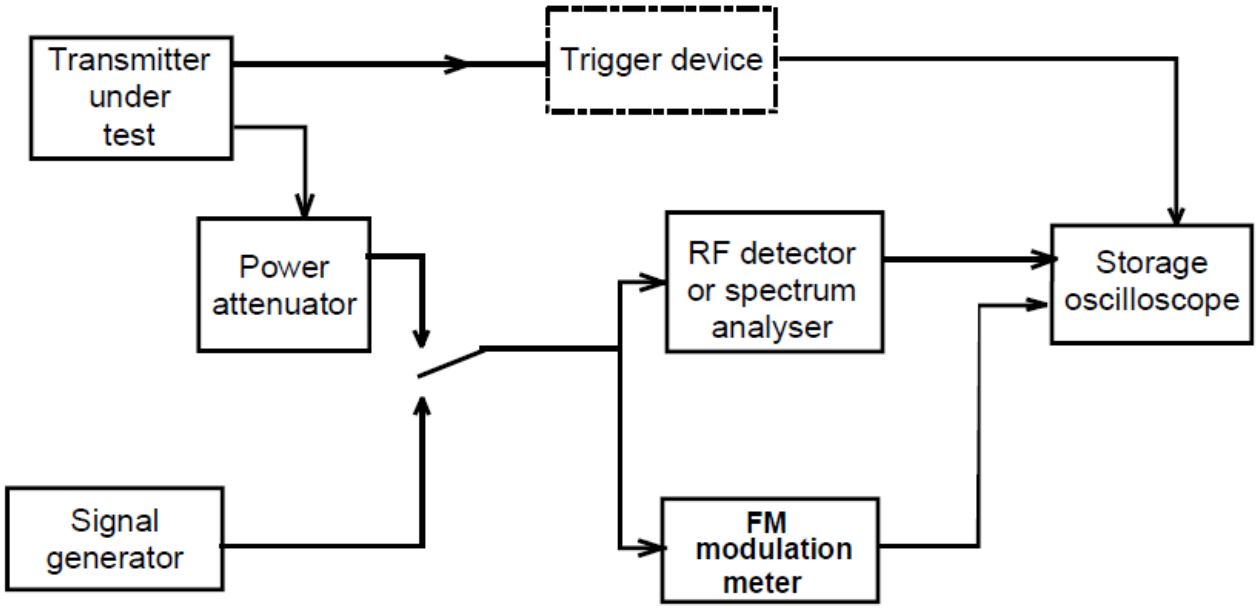
Not applicable. Fixed base stations only.

4.1.7. Transmitter attack time

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 7.7.3
The transmitter attack time for constant envelope transmissions shall not exceed 25 ms (tam ≤ tal). For constant envelope transmissions a limit at +4 dB above the steady state power shall not be exceeded during the transmitter attack time.

TEST CONFIGURATION



TEST PROCEDURE

1. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 6.3 for the test conditions.
2. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 7.7.2 for the measurement method.

TEST RESULTS

429.99375MHz of 12.5 kHz Channel Separation

Test Condition		Channel Sepacing	T_{AM}	limit	Result
Temperature (℃)	Voltage (V)				
Tnor (+25)	V nor(4.2)	12.5kHz	2.15ms	⩽25ms	Pass

469.99375MHz of 12.5 kHz Channel Separation

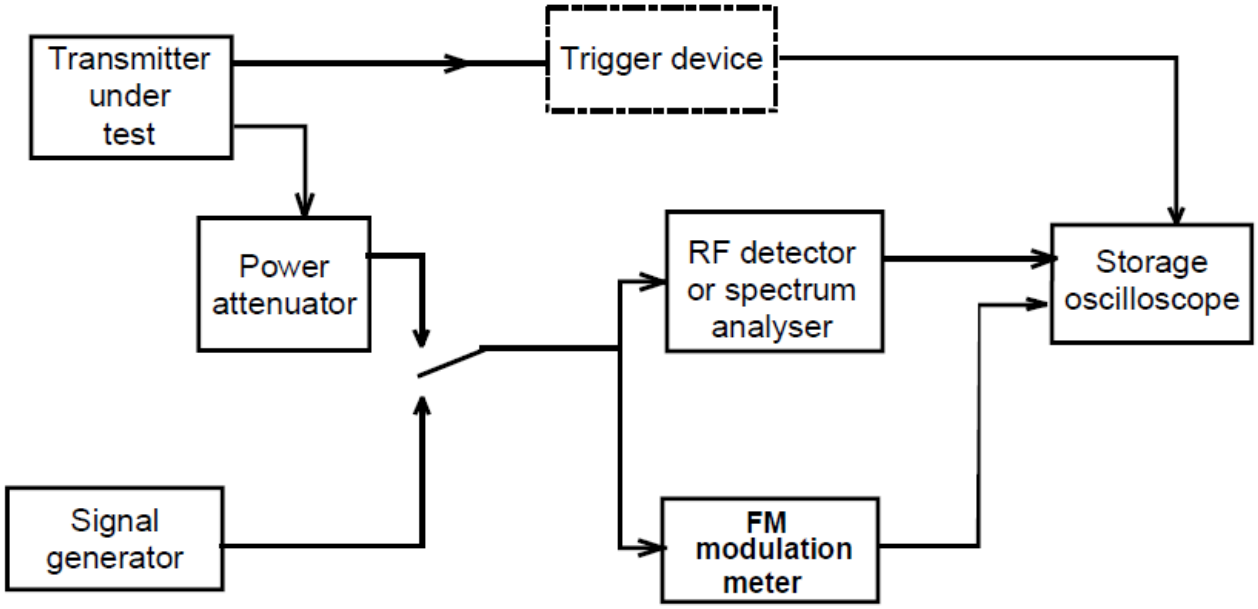
Test Condition		Channel Sepacing	T_{AM}	limit	Result
Temperature (℃)	Voltage (V)				
Tnor (+25)	V nor(4.2)	12.5kHz	2.12ms	⩽25ms	Pass

4.1.8. Transmitter release time

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 7.7.3
For constant envelope transmissions the transmitter release time shall not exceed 20 ms (trm ⩽ trl).

TEST CONFIGURATION



TEST PROCEDURE

3. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 6.3 for the test conditions.
4. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 7.8.2 for the measurement method.

TEST RESULTS

429.99375MHz of 12.5 kHz Channel Separation

Test Condition		Channel Sepacing	T_{AM}	limit	Result
Temperature (℃)	Voltage (V)				
Tnor (+25)	V nor(4.2)	12.5kHz	1.43ms	≤20ms	Pass

469.99375MHz of 12.5 kHz Channel Separation

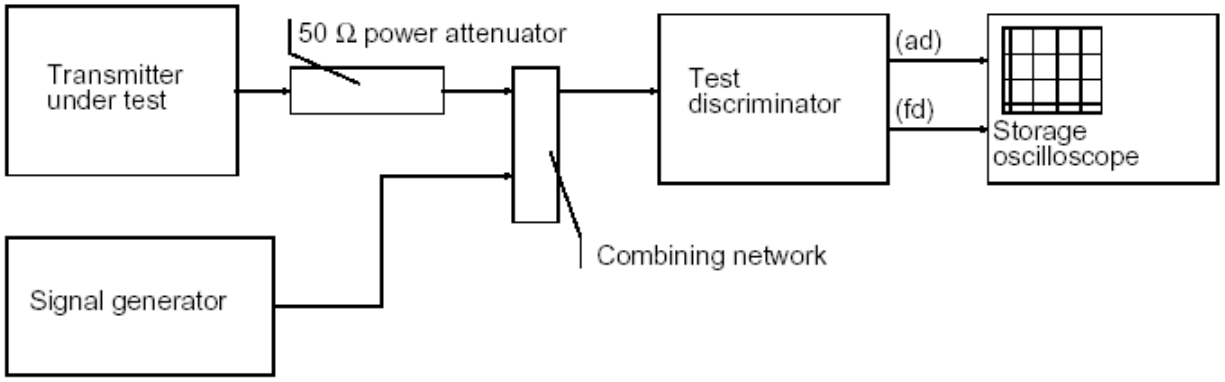
Test Condition		Channel Sepacing	T_{AM}	limit	Result
Temperature (℃)	Voltage (V)				
Tnor (+25)	V nor(4.2)	12.5kHz	1.26ms	≤20ms	Pass

4.1.9. Transient frequency Behavior of transmitter

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 7.9.4
Equipment measured as constant envelope angle modulation equipment The transient power, in the adjacent channels shall not exceed a value of
• 60,0 dB below the transmitter power (conducted) without the need to be below 2 µW (-27,0 dBm), for channel separations of 20 kHz and 25 kHz;
• 50,0 dB below the transmitter power (conducted) without the need to be below 2 µW (-27,0 dBm), for a channel separation of 12,5 kHz.

TEST CONFIGURATION



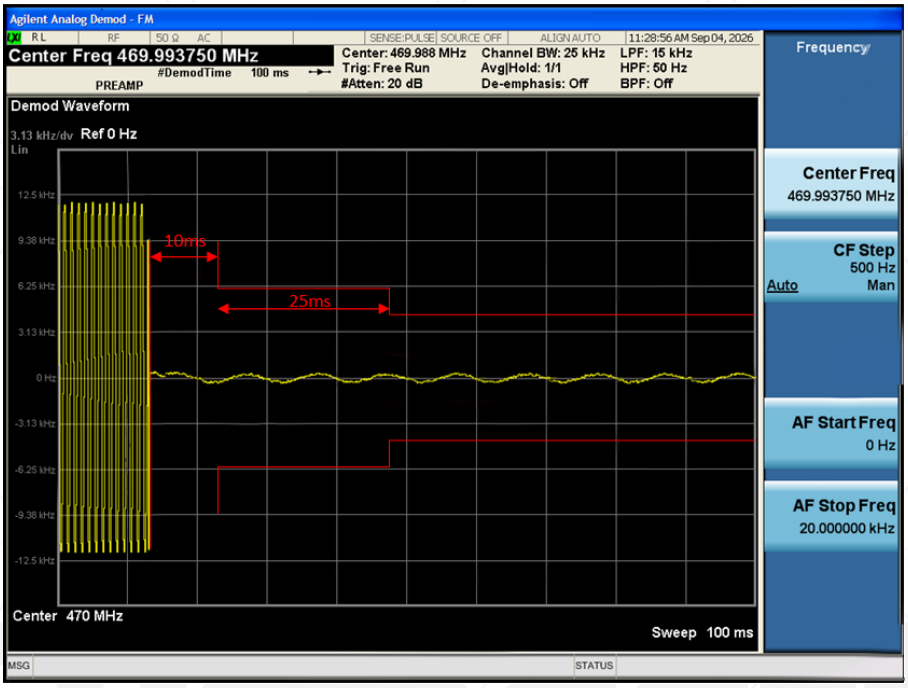
TEST PROCEDURE

5. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 6.3 for the test conditions.
6. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 8.9.2 for the measurement method.

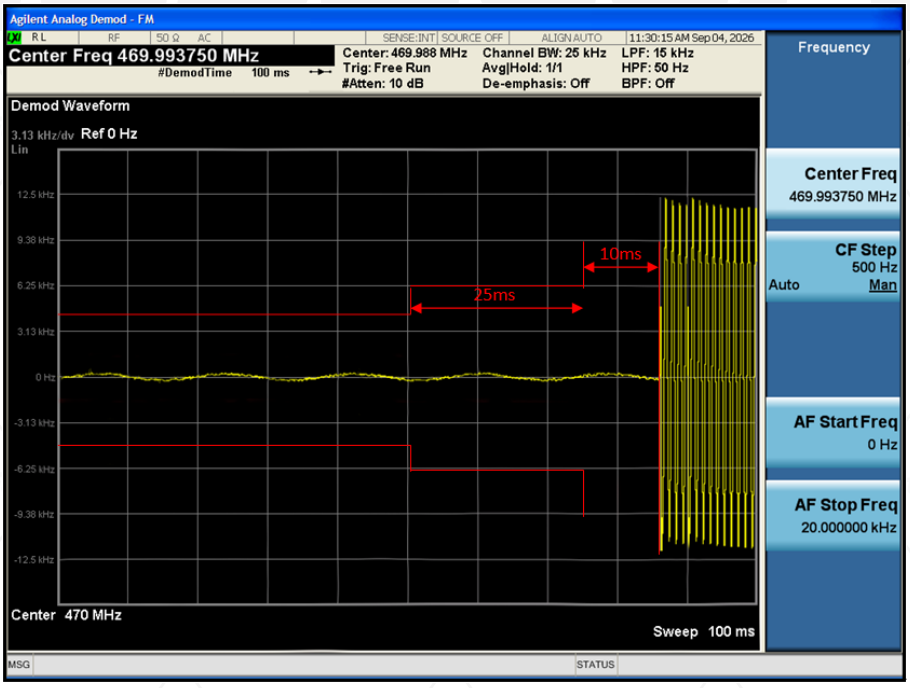
TEST RESULTS

12.5kHz

Transmitter Frequency Behavior @ Channel Separation------Off – On



Transmitter Frequency Behavior @ Channel Separation------On - Off



4.2. ETSI EN 300 113 REQUIREMENTS FOR RECEIVER

4.2.1. Maximum usable sensitivity (conducted)

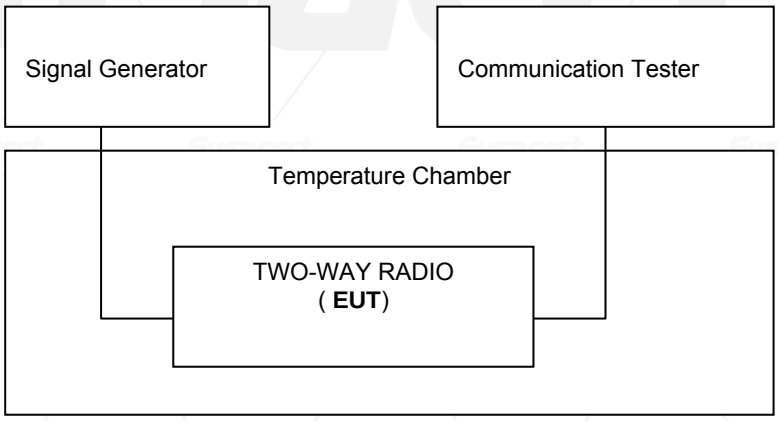
LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 8.1.3
The maximum usable sensitivity shall not exceed the values given in table 9 under normal test conditions, and the values in table 9 plus 6 dB under extreme test conditions

Table 9: Sensitivity levels (mean power) for different channel bandwidths and gross (on-air) bit rates

Channel BW	Data Rate	Sensitivity
12,5 kHz	9,6 kbit/s or less	-110 dBm
	more than 9,6 kbits to 16 kbit/s	-105 dBm
	more than 16 kbits to 38,4 kbit/s	-98 dBm
	greater than 38,4 kbit/s	-93 dBm
20 kHz and 25 kHz	9,6 kbit/s or less	-110 dBm
	more than 9,6 kbit/s to 38,4 kbit/s	-105 dBm
	more than 38,4 kbits to 76,8 kbit/s	-98 dBm
	greater than 76,8 kbit/s	-93 dBm

TEST CONFIGURATION



TEST PROCEDURE

1. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 5.4 for the test conditions.
2. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 8.1.2 for the measurement method.

TEST RESULTS

Test Result of 12.5 kHz Channel Separation			
Test Condition		Result Measured (dBm)	Limit (dBm)
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	-116.94	-110
T_{min} (-10)	DC 4.5	-118.98	-104
	DC 3.4	-118.96	-104
T_{max} (+40)	DC 4.5	-119.93	-104
	DC 3.4	-120.98	-104
Result		Pass	

4.2.2. Receiver error behaviour at high input levels

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 8.4.3
The bit error ratio (continuous bit streams) shall not exceed 10^{-4}.
The number of messages or packets not correctly received (lost or corrupted) shall not exceed 1.

TEST CONFIGURATION

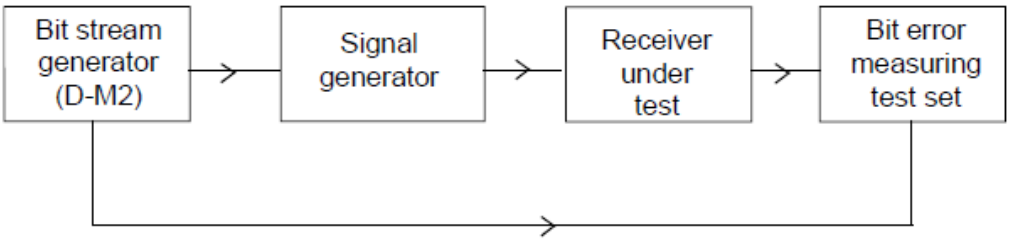


Figure 19: Measurement arrangement

TEST PROCEDURE

1. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 8.4.2 for the measurement method.

TEST RESULTS

Test Result of 12.5 kHz Channel Separation					
Transmitter Packets	Receiver Packets	Packets loss	bit error ratio	Limit	Result
1000	1000	0	0	10^{-4}	Pass

4.2.3. Co-channel rejection

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 8.5.3

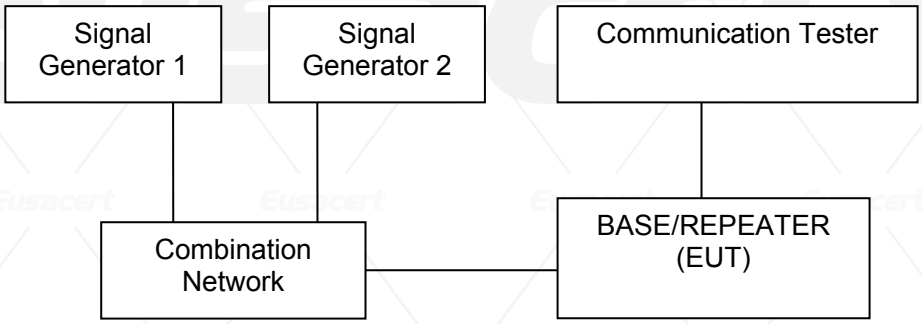
The value of the co-channel rejection ratio, expressed in dB, at the signal displacements given in the method of measurement, shall be between the values given in table 11

Table 11: Co-channel limits (mean power) for different channel bandwidths and gross (on-air) bit rates

Channel BW	Data Rate	Sensitivity
12,5 kHz	9,6 kbit/s or less	between 12,0 dB and 0 dB
	more than 9,6 kbits to 16 kbit/s	between 17,0 dB and 0 dB
	more than 16 kbits to 38,4 kbit/s	between 24,0 dB and 0 dB
	greater than 38,4 kbit/s	between 29,0 dB and 0 dB
20 kHz and 25 kHz	9,6 kbit/s or less	between 8,0 dB and 0 dB
	more than 9,6 kbit/s to 38,4 kbit/s	between 12,0 dB and 0 dB
	more than 38,4 kbits to 76,8 kbit/s	between 19,0 dB and 0 dB
	greater than 76,8 kbit/s	between 24,0 dB and 0 dB

.

TEST CONFIGURATION



TEST PROCEDURE

.

1. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 8.5.2 for the measurement method.

TEST RESULTS

406.10625MHz

Test Result of 12.5 kHz Channel Separation					
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Power(dB)	Test Result (dB)	Limit (dB)	Result
406.10625	406.11-0.003	30	-6.11	Between -12.0 dB and 0 dB	Pass
406.10625	406.11-0.0015	30	-7.65	Between -12.0 dB and 0 dB	Pass
406.10625	406.11+0.0015	30	-7.42	Between -12.0 dB and 0 dB	Pass
406.10625	406.11+0.003	30	-7.36	Between -12.0 dB and 0 dB	Pass

418.05625MHz

Test Result of 12.5 kHz Channel Separation					
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Power(dB)	Test Result (dB)	Limit (dB)	Result
418.05625	418.06-0.003	30	-5.91	Between -12.0 dB and 0 dB	Pass
418.05625	418.06-0.0015	30	-7.89	Between -12.0 dB and 0 dB	Pass
418.05625	418.06+0.0015	30	-7.46	Between -12.0 dB and 0 dB	Pass
418.05625	418.06+0.003	30	-7.53	Between -12.0 dB and 0 dB	Pass

429.99375MHz

Test Result of 12.5 kHz Channel Separation					
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Power(dB)	Test Result (dB)	Limit (dB)	Result
429.99375	429.99-0.003	30	-6.02	Between -12.0 dB and 0 dB	Pass
429.99375	429.99-0.0015	30	-7.90	Between -12.0 dB and 0 dB	Pass
429.99375	429.99+0.0015	30	-7.49	Between -12.0 dB and 0 dB	Pass
429.99375	429.99+0.003	30	-7.33	Between -12.0 dB and 0 dB	Pass

450.00625MHz

Test Result of 12.5 kHz Channel Separation					
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Power(dB)	Test Result (dB)	Limit (dB)	Result
450.00625	450.01-0.003	30	-6.18	Between -12.0 dB and 0 dB	Pass
450.00625	450.01-0.0015	30	-7.74	Between -12.0 dB and 0 dB	Pass
450.00625	450.01+0.0015	30	-7.45	Between -12.0 dB and 0 dB	Pass
450.00625	450.01+0.003	30	-7.46	Between -12.0 dB and 0 dB	Pass

460.00000MHz

Test Result of 12.5 kHz Channel Separation					
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Power(dB)	Test Result (dB)	Limit (dB)	Result
460.00000	460.0-0.003	30	-5.98	Between -12.0 dB and 0 dB	Pass
460.00000	460.0-0.0015	30	-7.94	Between -12.0 dB and 0 dB	Pass
460.00000	460.0+0.0015	30	-7.55	Between -12.0 dB and 0 dB	Pass
460.00000	460.0+0.003	30	-7.56	Between -12.0 dB and 0 dB	Pass

469.99375MHz

Test Result of 12.5 kHz Channel Separation					
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Power(dB)	Test Result (dB)	Limit (dB)	Result
469.99375	469.99-0.003	30	-6.08	Between -12.0 dB and 0 dB	Pass
469.99375	469.99-0.0015	30	-7.91	Between -12.0 dB and 0 dB	Pass
469.99375	469.99+0.0015	30	-7.58	Between -12.0 dB and 0 dB	Pass
469.99375	469.99+0.003	30	-7.41	Between -12.0 dB and 0 dB	Pass

4.2.4. Adjacent channel selectivity

LIMIT

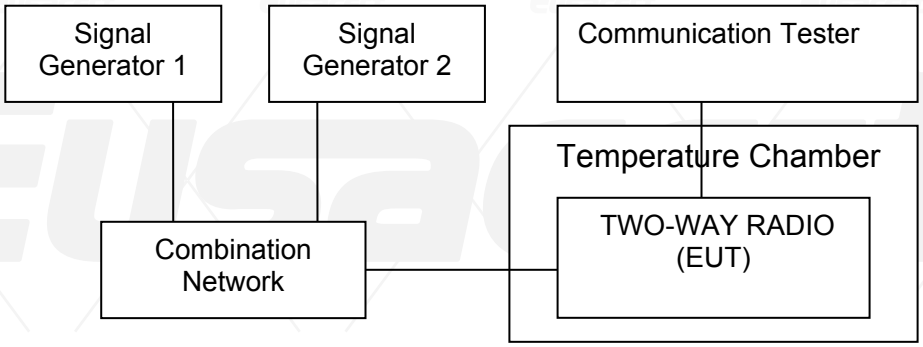
ETSI EN 300 113 (V2.2.1) Sub-clause 8.6.3
The minimum adjacent channel rejection shall be such that, under the specified test conditions, the given degradation shall not be exceeded for levels of the unwanted signal up to the values given in table 12.
.

Table 12: Adjacent channel selectivity (unwanted signal levels)

	Channel separation	
	12,5 kHz	20/25 kHz
normal test conditions	-47,0 dBm	-37,0 dBm
extreme test conditions	-51,0 dBm	-41,0 dBm

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST CONFIGURATION



TEST PROCEDURE

1. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 5.3 and 5.4 for the test conditions.
2. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 8.6.2 for the measurement method.

TEST RESULTS

Test Result of 12.5 kHz Channel Separation at unwanted signal frequency above wanted signal frequency			
Test Condition		Result Measured (dBm)	Limit (dBm)
Temperature (°C)	Voltage (V)		
T_{nor} (+25)	DC 4.2	-59	-47
T_{min} (-10)	DC 4.5	-62	-51
	DC 3.4	-64	-51
T_{max} (+40)	DC 4.5	-61	-51
	DC 3.4	-58	-51
Result		Pass	

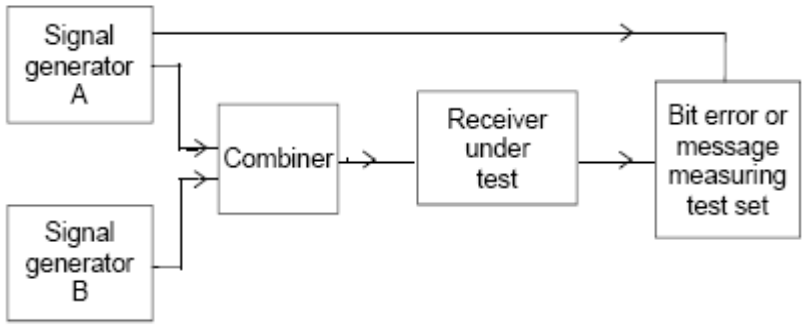
4.2.5. Spurious response rejection

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 8.7.7
At any frequency separated from the nominal frequency of the receiver by two channels or more, the spurious response rejection shall be such that under the specified test conditions, the given degradation shall not be exceeded for levels of the unwanted signal up to -37 dBm.

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST CONFIGURATION



TEST PROCEDURE

1. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 5.3 for the test conditions.
2. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 8.7.3 for the measurement method.

TEST RESULTS

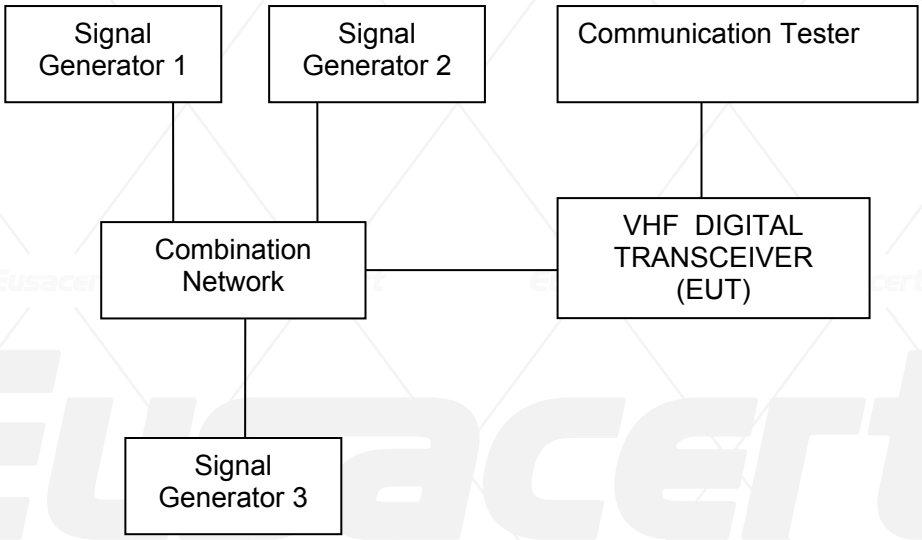
Test Result of 12.5 kHz Channel Separation	
Test Result (dBm)	Limit (dBm)
-44.72	⩽-37.0
Result	Pass

4.2.6. Intermodulation response rejection

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 8.8.3
The intermodulation response rejection of the equipment shall be such that under the specified test conditions, the given degradation shall not be exceeded for levels of the unwanted signal up to -37 dBm for base stations and -42 dBm for mobile and handportable stations.

TEST CONFIGURATION



TEST PROCEDURE

1. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 5.3 for the test conditions.
2. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 8.8.2 for the measurement method.

TEST RESULTS

Test Result of 12.5 kHz Channel Separation At Below Wanted Signal Channel					
Wanted Signal Channel (MHz)	Unmodulated Unwanted Signal Frequency (MHz)	Modulated Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
406.10625	406.11+0.025	406.11+0.050	-54.27	≤-37	Pass
406.10625	406.11+0.050	406.11+0.100	-52.79	≤-37	Pass

Test Result of 12.5 kHz Channel Separation At Below Wanted Signal Channel					
Wanted Signal Channel (MHz)	Unmodulated Unwanted Signal Frequency (MHz)	Modulated Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
418.05625	418.06+0.025	418.06+0.050	-53.91	≤-37	Pass
418.05625	418.06+0.050	418.06+0.100	-52.71	≤-37	Pass

Test Result of 12.5 kHz Channel Separation At Below Wanted Signal Channel					
Wanted Signal Channel (MHz)	Unmodulated Unwanted Signal Frequency (MHz)	Modulated Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
429.99375	429.99+0.025	429.99+0.050	-54.15	≤-37	Pass
429.99375	429.99+0.050	429.99+0.100	-52.65	≤-37	Pass

Test Result of 12.5 kHz Channel Separation At Above Wanted Signal Channel					
Wanted Signal Channel (MHz)	Unmodulated Unwanted Signal Frequency (MHz)	Modulated Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
450.00625	450.01+0.025	450.01+0.050	-54.15	≤-37	Pass
450.00625	450.01+0.050	450.01+0.100	-52.85	≤-37	Pass

Test Result of 12.5 kHz Channel Separation At Above Wanted Signal Channel					
Wanted Signal Channel (MHz)	Unmodulated Unwanted Signal Frequency (MHz)	Modulated Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
460.00000	460.00+0.025	460.00+0.050	-53.90	≤-37	Pass
460.00000	460.00+0.050	460.00+0.100	-52.66	≤-37	Pass

Test Result of 12.5 kHz Channel Separation At Above Wanted Signal Channel					
Wanted Signal Channel (MHz)	Unmodulated Unwanted Signal Frequency (MHz)	Modulated Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
469.99375	469.99+0.025	469.99+0.050	-53.89	≤-37	Pass
469.99375	469.99+0.050	469.99+0.100	-52.62	≤-37	Pass

4.2.7. Blocking or desensitization

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 8.9.3
The blocking or desensitization of the receiver as defined in ETSI EN 300 113Sub-clause 8.9.3, The blocking level, for any frequency within the specified ranges, shall not be less than -23 dBm except at frequencies on which spurious responses are found, clause 8.7
.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Communication Test Set	HP	HP8920B	US35010135	2020-12-25
Signal Generator 1	R&S	SMT03	100059	2020-12-25
Signal Generator 2	R&S	SMT02	A0304261	2020-12-25

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST CONFIGURATION

The same as described in section 6.4

TEST PROCEDURE

1. Please refer to ETSI EN 300 113(V2.2.1) Sub-clause 5.3 for the test conditions.
2. Please refer to ETSI EN 300 113(V2.2.1) Sub-clause 8.9.2 for the measurement method.

TEST RESULTS

Test Result of 12.5 kHz Channel Separation At Below Wanted Signal Channel				
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
406.10625	406.11+1	-10.98	At least -23	Pass
406.10625	406.11+2	-11.53	At least -23	Pass
406.10625	406.11+5	-11.14	At least -23	Pass
406.10625	406.11+10	-11.02	At least -23	Pass

Test Result of 12.5 kHz Channel Separation At Below Wanted Signal Channel				
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
418.05625	418.06+1	-11.18	At least -23	Pass
418.05625	418.06+2	-11.34	At least -23	Pass
418.05625	418.06+5	-11.63	At least -23	Pass
418.05625	418.06+10	-11.14	At least -23	Pass

Test Result of 12.5 kHz Channel Separation At Below Wanted Signal Channel				
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
429.99375	429.99+1	-11.19	At least -23	Pass
429.99375	429.99+2	-11.28	At least -23	Pass
429.99375	429.99+5	-11.56	At least -23	Pass
429.99375	429.99+10	-11.05	At least -23	Pass

Test Result of 12.5 kHz Channel Separation At Above Wanted Signal Channel				
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
450.00625	450.01+1	-11.14	At least -23	Pass
450.00625	450.01+2	-11.39	At least -23	Pass
450.00625	450.01+5	-11.64	At least -23	Pass
450.00625	450.01+10	-11.04	At least -23	Pass

Test Result of 12.5 kHz Channel Separation At Above Wanted Signal Channel				
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
460.00000	460.00+1	-11.25	At least -23	Pass
460.00000	460.00+2	-11.35	At least -23	Pass
460.00000	460.00+5	-11.57	At least -23	Pass
460.00000	460.00+10	-11.18	At least -23	Pass

Test Result of 12.5 kHz Channel Separation At Above Wanted Signal Channel				
Wanted Signal Channel (MHz)	Unwanted Signal Frequency (MHz)	Test Result (dBm)	Limit (dBm)	Result
469.99375	469.99+1	-11.22	At least -23	Pass
469.99375	469.99+2	-11.40	At least -23	Pass
469.99375	469.99+5	-11.66	At least -23	Pass
469.99375	469.99+10	-11.09	At least -23	Pass

4.2.8. Spurious radiations

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 8.10.4
The spurious radiation of the receiver as defined in ETSI EN 300 113Sub-clause 8.10.4, The power of any spurious radiation shall not exceed the values given in tables 13 and 14.

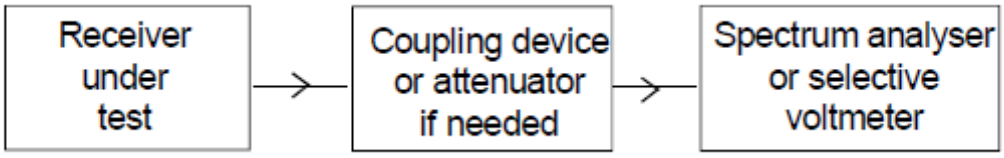
Table 13: Conducted components

Frequency range	Limit
9 kHz to 1 GHz	2,0 nW (-57 dBm)
above 1 GHz to 4 GHz or above 1 GHz to 12,75 GHz	20,0 nW (-47 dBm)

Table 14: Radiated components

Frequency range	Limit
30 MHz to 1 GHz	2,0 nW (-57 dBm)
above 1 GHz to 4 GHz	20,0 nW (-47 dBm)

TEST CONFIGURATION



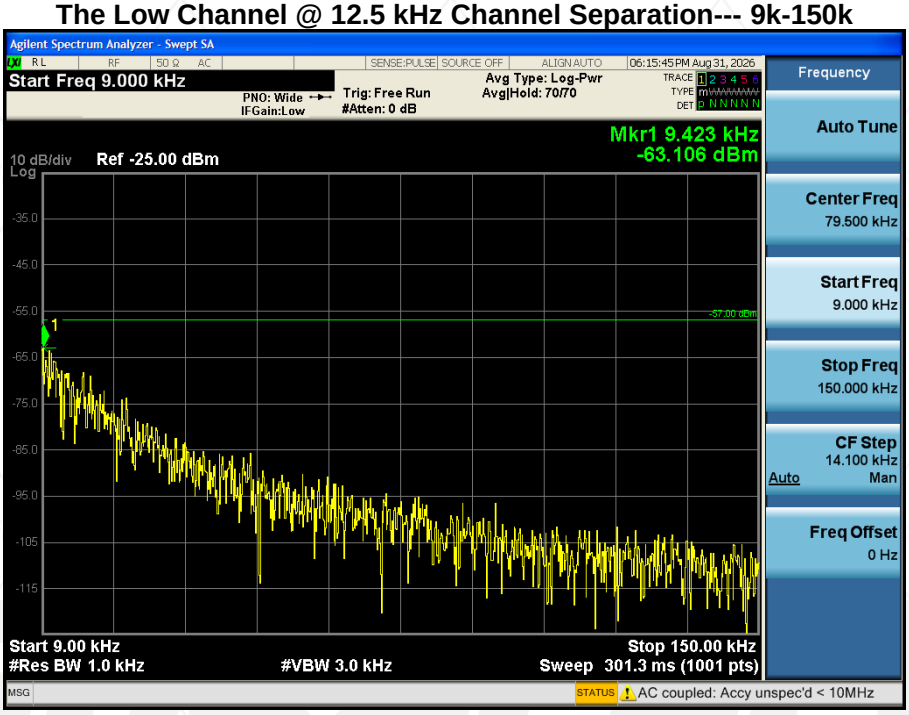
TEST PROCEDURE

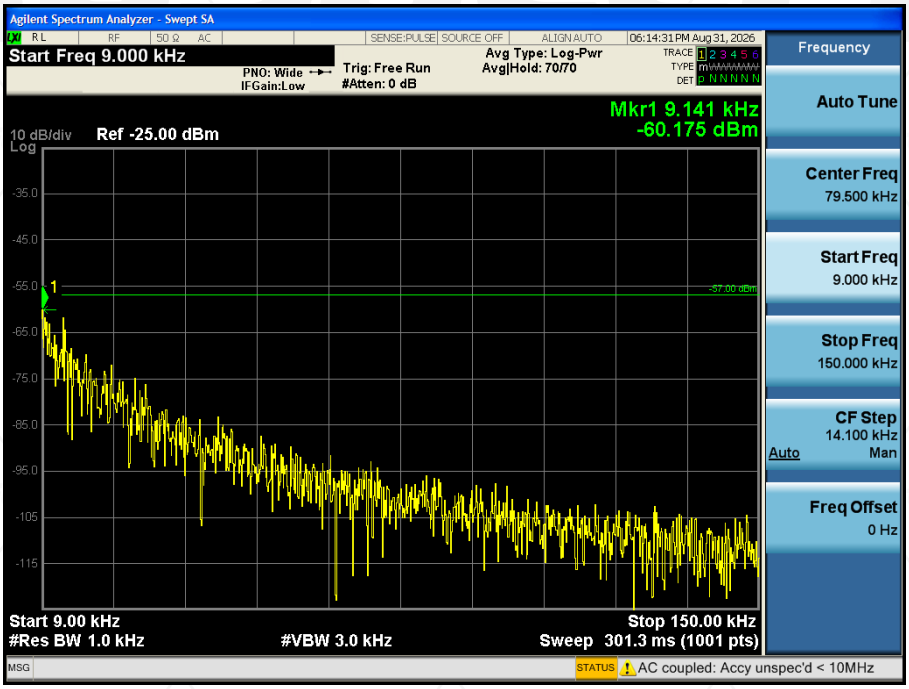
1. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 5.3 for the test conditions.
2. Please refer to ETSI EN 300 113 (V2.2.1) Sub-clause 8.10.2 and 8.10.3 for the measurement method.

TEST RESULTS

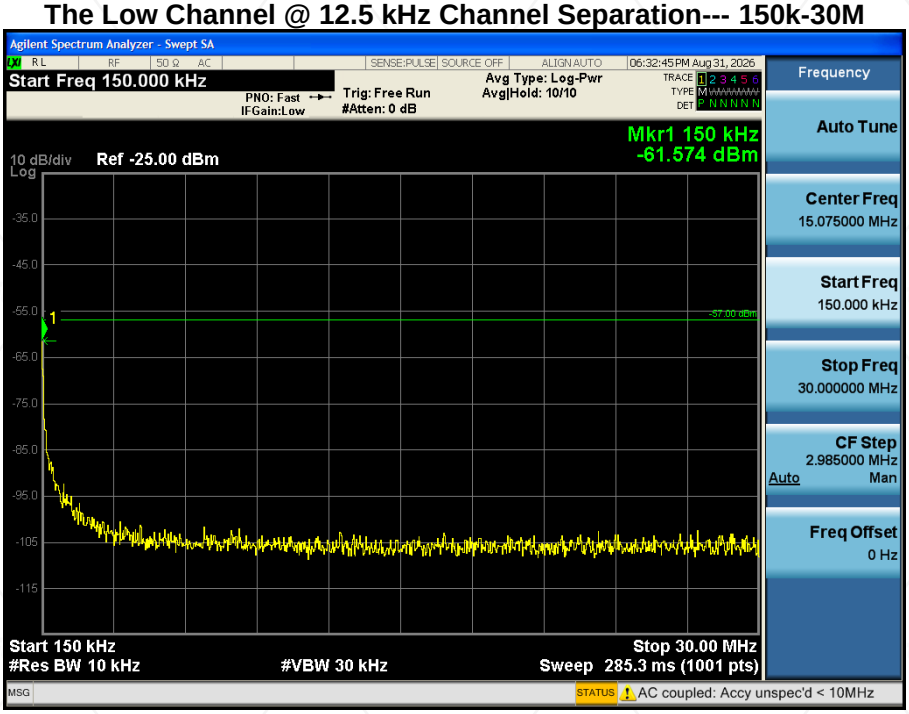
Conducted Measurement (9 kHz to 12.75GHz) --- PASS

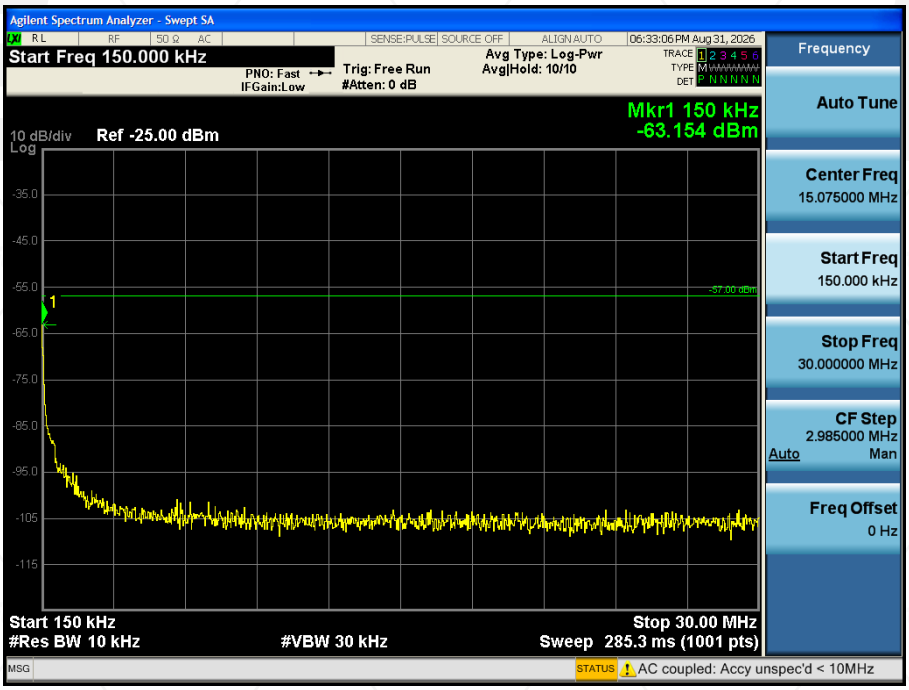
The Low Channel @ 12.5 kHz Channel Separation--- 9k-150k



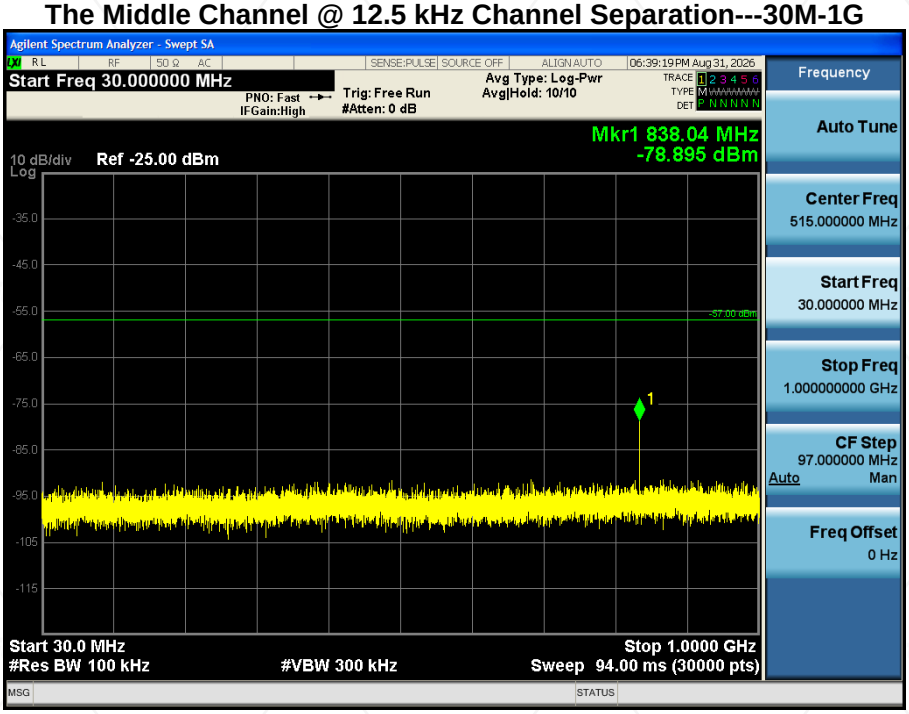


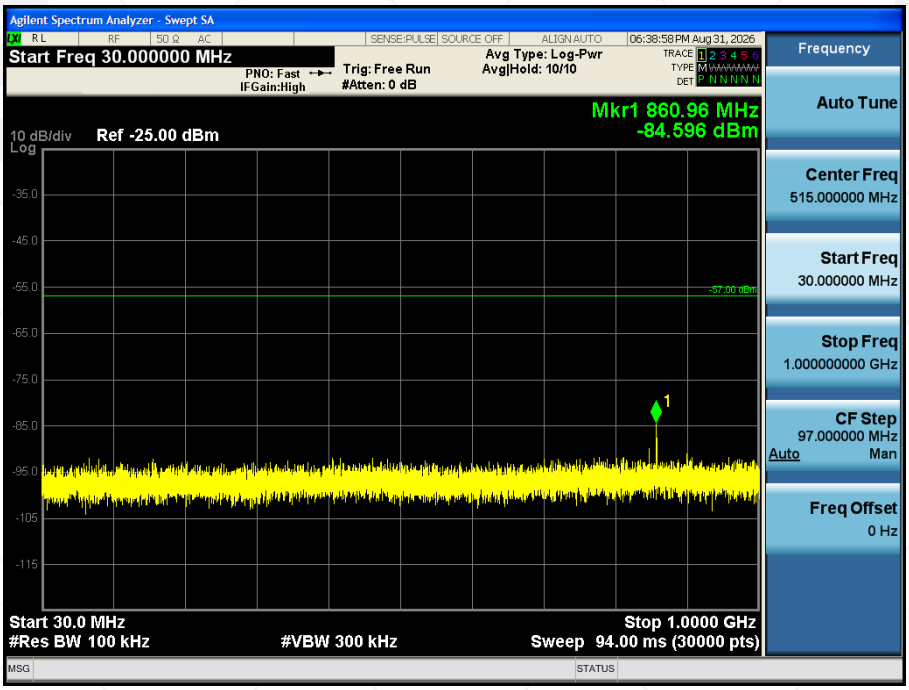
The Low Channel @ 12.5 kHz Channel Separation--- 150k-30M



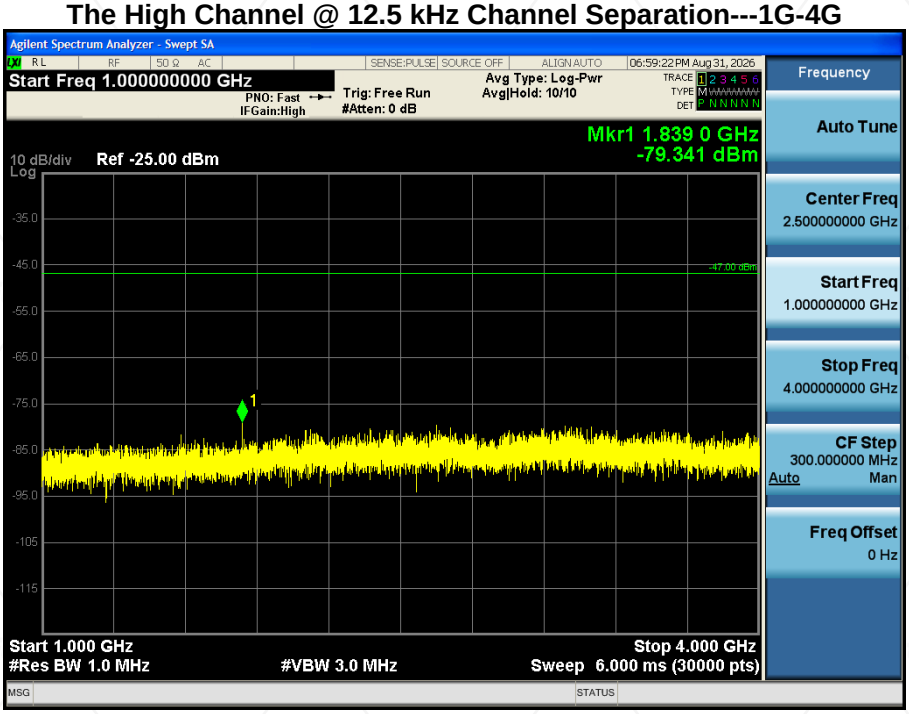


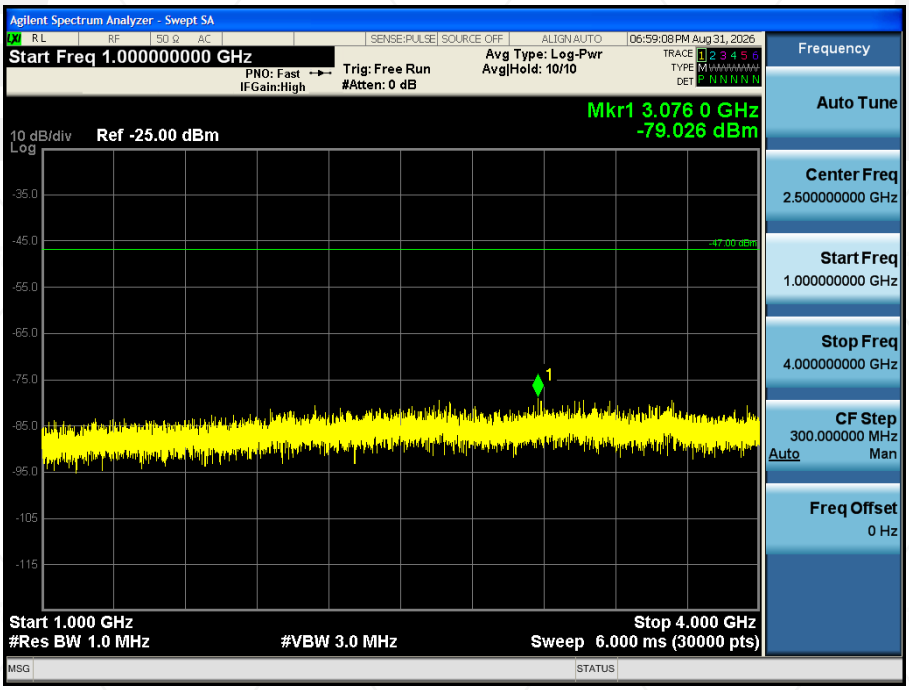
The Middle Channel @ 12.5 kHz Channel Separation---30M-1G





The High Channel @ 12.5 kHz Channel Separation---1G-4G

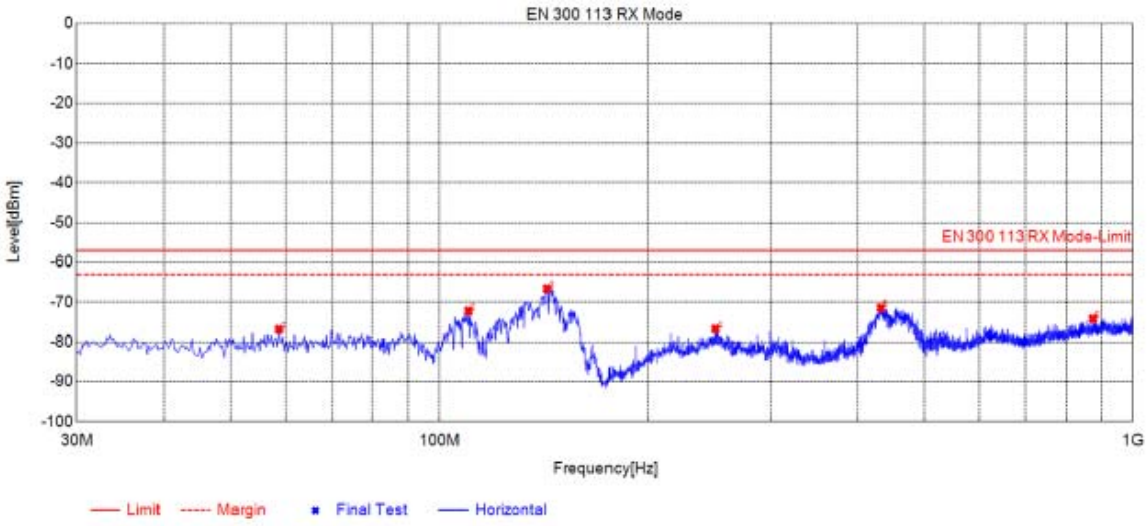




The Radiated Measurement are performed to the three channels (the top channel, the middle channel and the lowest channel) at each channel separation (12.5 kHz), the datum recorded below is the worst case for each channel separation.

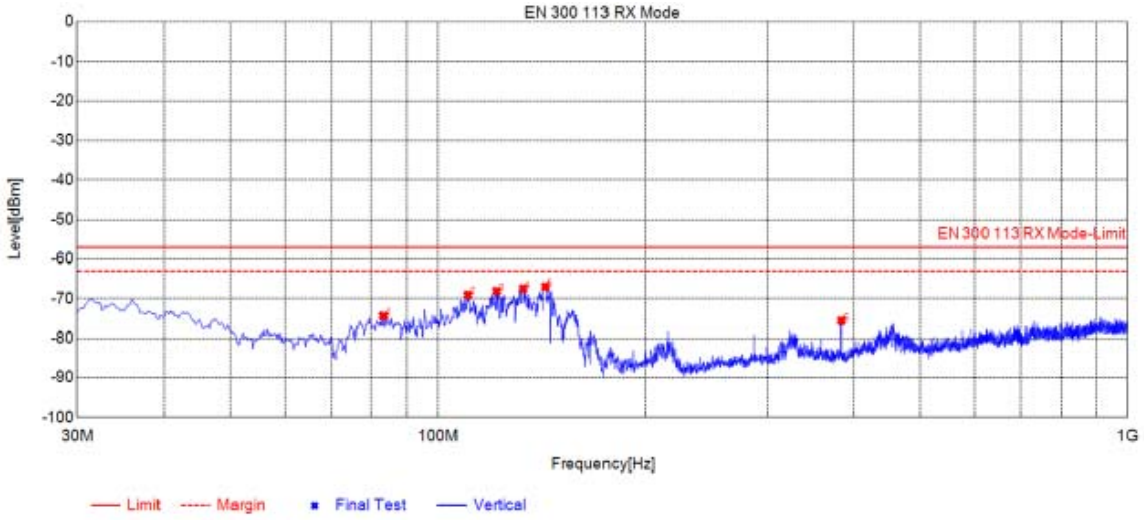
The Bottom Channel is the worst case for 12.5 kHz Channel Separation

Low Channel



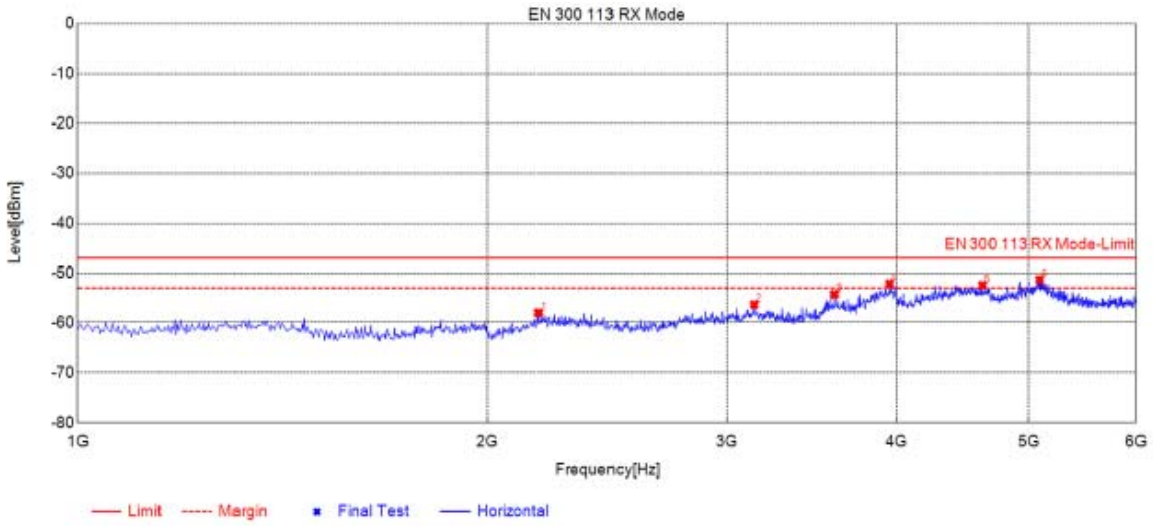
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	58.7177	-80.44	-76.90	-57.00	19.90	3.54	Horizontal
2	109.944	-75.54	-72.25	-57.00	15.25	3.29	Horizontal
3	142.736	-67.36	-66.60	-57.00	9.60	0.76	Horizontal
4	249.846	-82.97	-76.80	-57.00	19.80	6.17	Horizontal
5	433.018	-75.36	-71.46	-57.00	14.46	3.90	Horizontal
6	874.650	-83.83	-74.19	-57.00	17.19	9.64	Horizontal



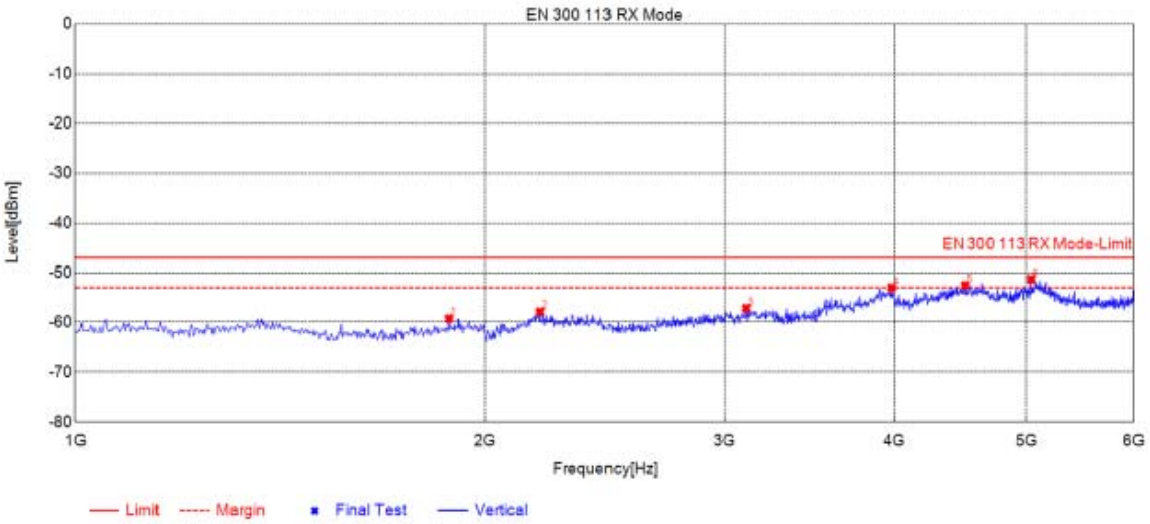
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	83.3607	-73.13	-74.41	-57.00	17.41	-1.28	Vertical
2	110.332	-81.48	-69.09	-57.00	12.09	12.39	Vertical
3	121.586	-73.36	-68.13	-57.00	11.13	5.23	Vertical
4	133.034	-67.11	-67.49	-57.00	10.49	-0.38	Vertical
5	142.930	-66.25	-67.01	-57.00	10.01	-0.76	Vertical
6	383.926	-76.92	-75.62	-57.00	18.62	1.30	Vertical



Suspected List

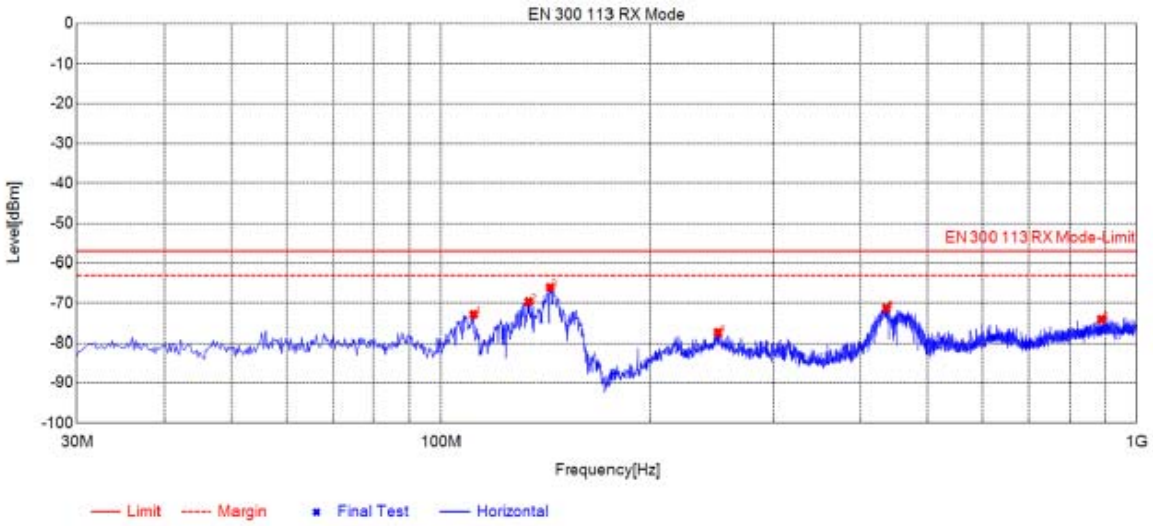
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	2180.59	-57.73	-58.04	-47.00	11.04	-0.31	Horizontal
2	3143.57	-57.68	-56.38	-47.00	9.38	1.30	Horizontal
3	3598.79	-57.74	-54.30	-47.00	7.30	3.44	Horizontal
4	3951.47	-56.17	-52.16	-47.00	5.16	4.01	Horizontal
5	4626.81	-59.01	-52.45	-47.00	5.45	6.56	Horizontal
6	5094.54	-61.29	-51.32	-47.00	4.32	9.97	Horizontal



Suspected List

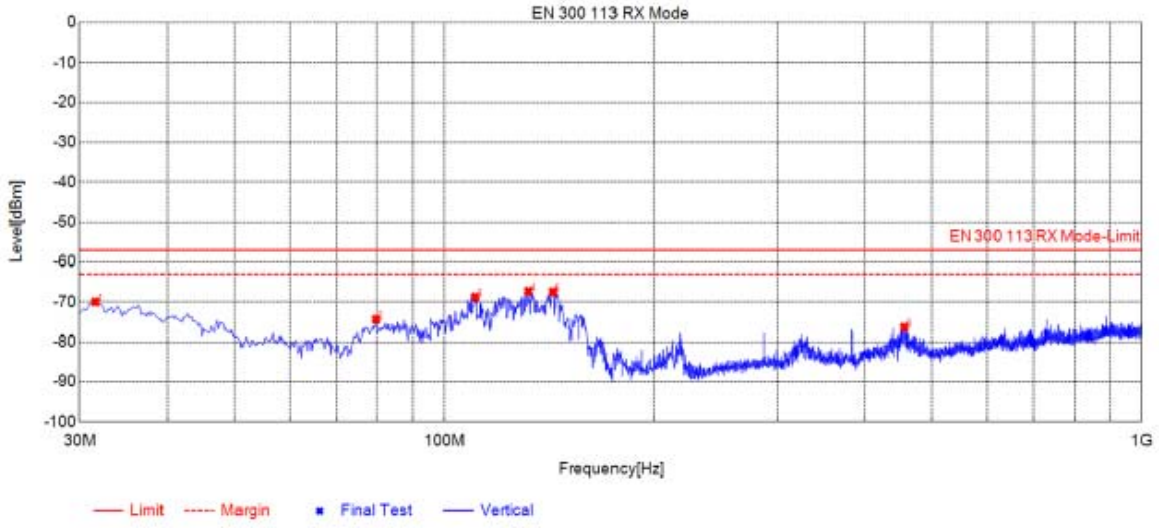
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1882.94	-55.62	-59.30	-47.00	12.30	-3.68	Vertical
2	2193.09	-57.86	-57.93	-47.00	10.93	-0.07	Vertical
3	3113.55	-58.40	-57.22	-47.00	10.22	1.18	Vertical
4	3981.49	-56.89	-53.04	-47.00	6.04	3.85	Vertical
5	4509.25	-58.68	-52.56	-47.00	5.56	6.12	Vertical
6	5042.02	-60.54	-51.33	-47.00	4.33	9.21	Vertical

Middle Channel



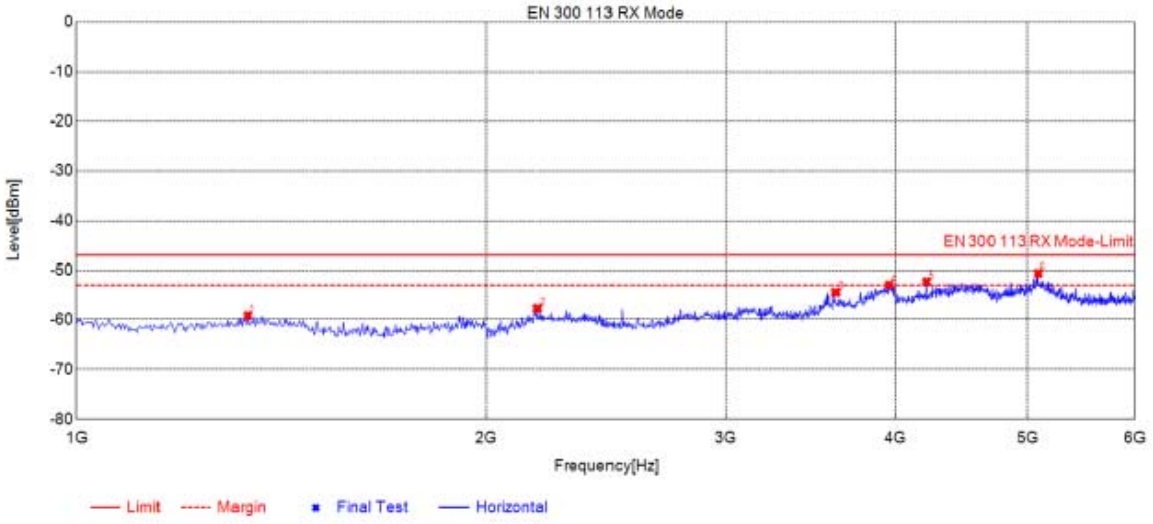
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	111.302	-75.82	-72.88	-57.00	15.88	2.94	Horizontal
2	133.810	-68.22	-69.65	-57.00	12.65	-1.43	Horizontal
3	143.318	-66.95	-66.04	-57.00	9.04	0.91	Horizontal
4	249.846	-83.61	-77.44	-57.00	20.44	6.17	Horizontal
5	436.511	-75.24	-71.29	-57.00	14.29	3.95	Horizontal
6	888.039	-83.94	-74.16	-57.00	17.16	9.78	Horizontal



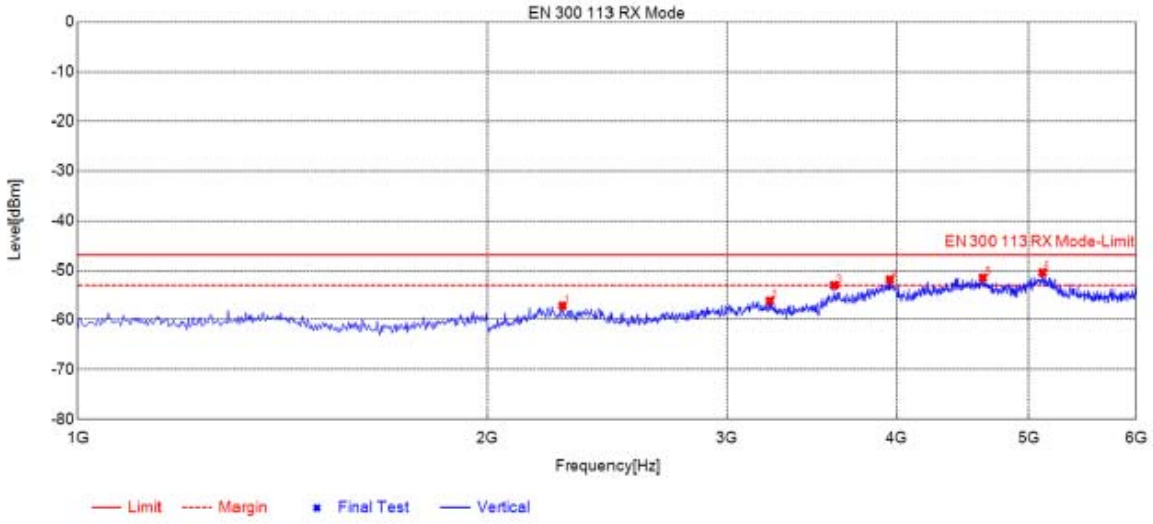
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	31.5523	-72.55	-70.01	-57.00	13.01	2.54	Vertical
2	79.868	-71.99	-74.41	-57.00	17.41	-2.42	Vertical
3	110.526	-81.06	-68.79	-57.00	11.79	12.27	Vertical
4	132.064	-66.99	-67.33	-57.00	10.33	-0.34	Vertical
5	142.930	-66.71	-67.47	-57.00	10.47	-0.76	Vertical
6	456.691	-78.85	-76.38	-57.00	19.38	2.47	Vertical



Suspected List

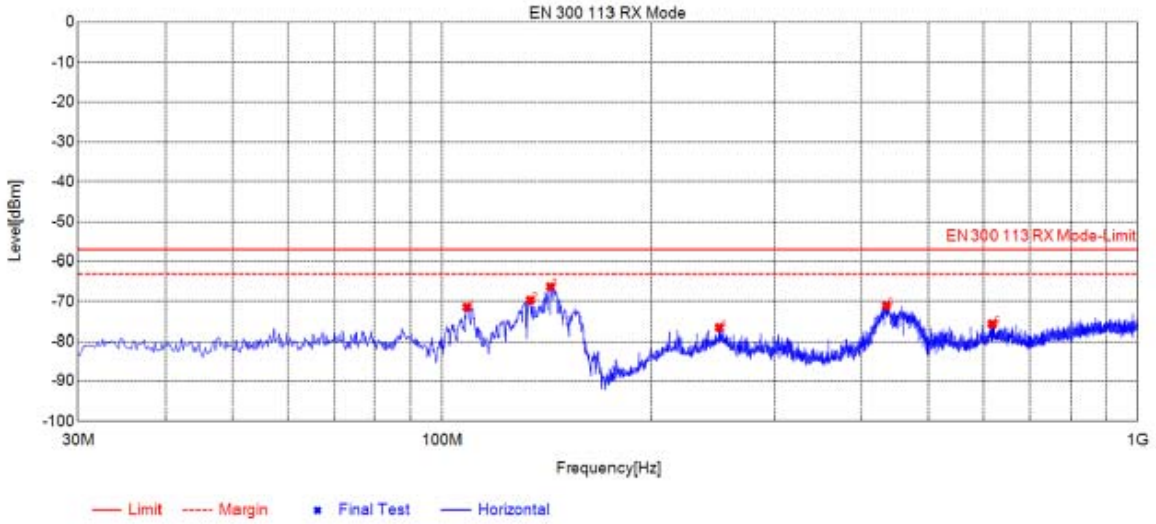
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1335.16	-55.94	-59.22	-47.00	12.22	-3.28	Horizontal
2	2180.59	-57.44	-57.75	-47.00	10.75	-0.31	Horizontal
3	3613.80	-57.82	-54.45	-47.00	7.45	3.37	Horizontal
4	3956.47	-56.99	-52.99	-47.00	5.99	4.00	Horizontal
5	4211.60	-56.87	-52.30	-47.00	5.30	4.57	Horizontal
6	5092.04	-60.55	-50.61	-47.00	3.61	9.94	Horizontal



Suspected List

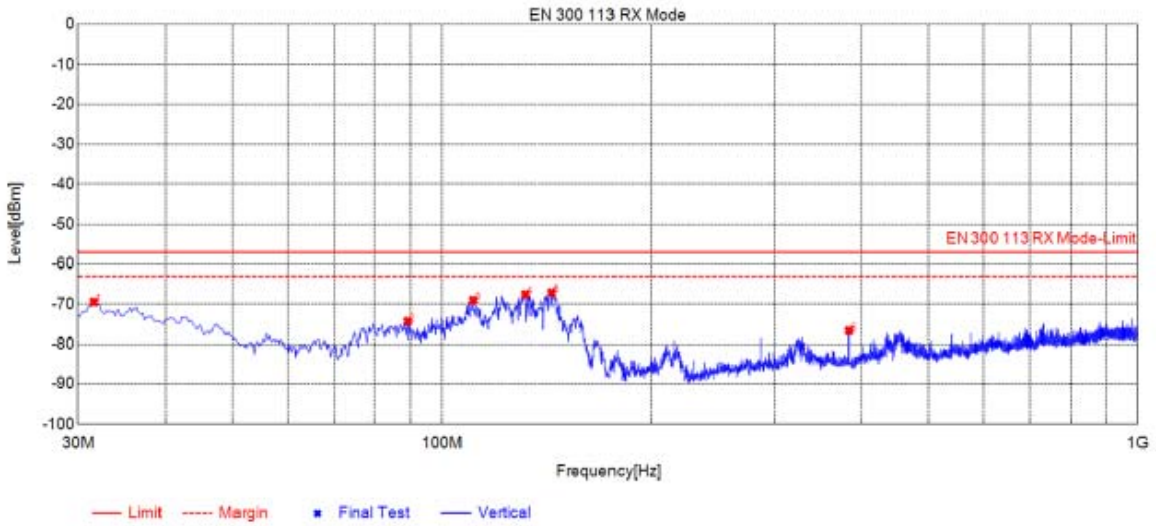
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	2270.63	-56.74	-57.18	-47.00	10.18	-0.44	Vertical
2	3223.61	-57.22	-56.19	-47.00	9.19	1.03	Vertical
3	3598.79	-56.22	-53.00	-47.00	6.00	3.22	Vertical
4	3953.97	-55.60	-51.84	-47.00	4.84	3.76	Vertical
5	4629.31	-58.13	-51.48	-47.00	4.48	6.65	Vertical
6	5119.55	-60.12	-50.42	-47.00	3.42	9.70	Vertical

High Channel



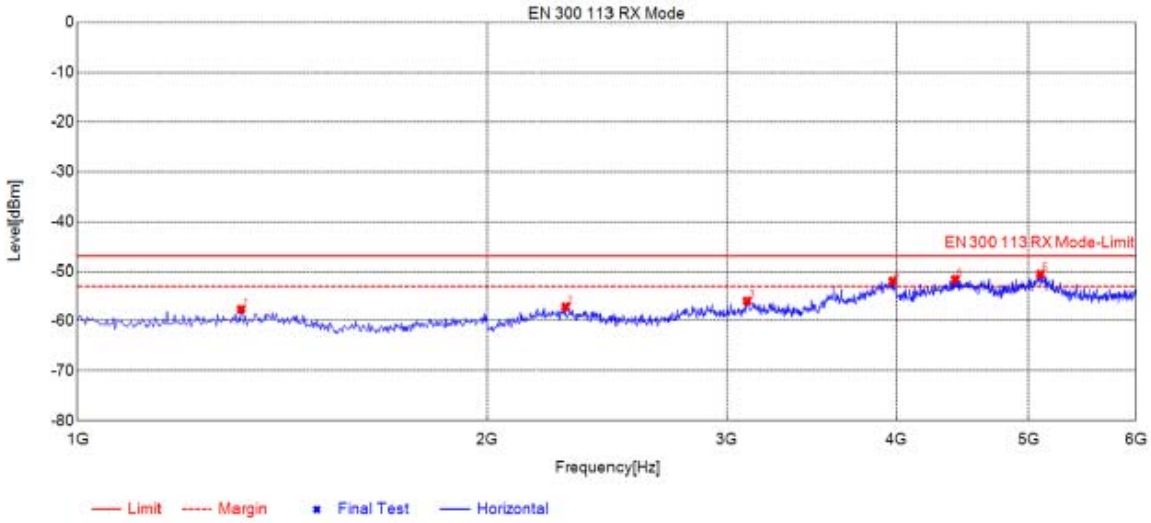
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	108.391	-74.44	-71.50	-57.00	14.50	2.94	Horizontal
2	134.004	-68.32	-69.70	-57.00	12.70	-1.38	Horizontal
3	142.930	-67.08	-66.27	-57.00	9.27	0.81	Horizontal
4	250.04	-82.86	-76.67	-57.00	19.67	6.19	Horizontal
5	434.959	-75.06	-71.13	-57.00	14.13	3.93	Horizontal
6	617.355	-83.31	-75.76	-57.00	18.76	7.55	Horizontal



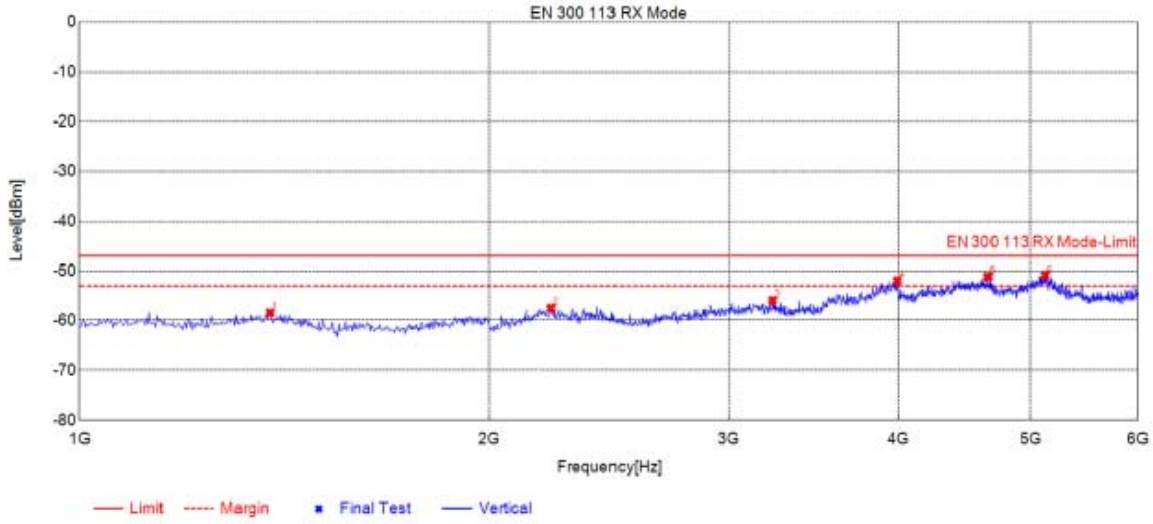
Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	31.5523	-72.05	-69.51	-57.00	12.51	2.54	Vertical
2	89.1818	-74.97	-74.34	-57.00	17.34	0.63	Vertical
3	110.720	-81.21	-69.06	-57.00	12.06	12.15	Vertical
4	131.870	-67.25	-67.59	-57.00	10.59	-0.34	Vertical
5	143.512	-66.36	-67.15	-57.00	10.15	-0.79	Vertical
6	383.926	-77.99	-76.69	-57.00	19.69	1.30	Vertical



Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1317.65	-54.39	-57.70	-47.00	10.70	-3.31	Horizontal
2	2283.14	-57.02	-57.18	-47.00	10.18	-0.16	Horizontal
3	3106.05	-57.38	-55.99	-47.00	8.99	1.39	Horizontal
4	3973.98	-55.90	-51.92	-47.00	4.92	3.98	Horizontal
5	4416.70	-57.54	-51.59	-47.00	4.59	5.95	Horizontal
6	5102.05	-60.54	-50.53	-47.00	3.53	10.01	Horizontal



Suspected List

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1380.19	-55.23	-58.49	-47.00	11.49	-3.26	Vertical
2	2218.10	-57.47	-57.55	-47.00	10.55	-0.08	Vertical
3	3228.61	-56.95	-55.97	-47.00	8.97	0.98	Vertical
4	3991.49	-55.85	-51.95	-47.00	4.95	3.90	Vertical
5	4651.82	-57.95	-51.15	-47.00	4.15	6.80	Vertical
6	5127.06	-60.56	-50.89	-47.00	3.89	9.67	Vertical

Remark:

(1) Emission Level (dBm) = SG O/P-Cable + Ant Gain
(2) Measuring frequencies from 30 MHz to the 4GHz.
(3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

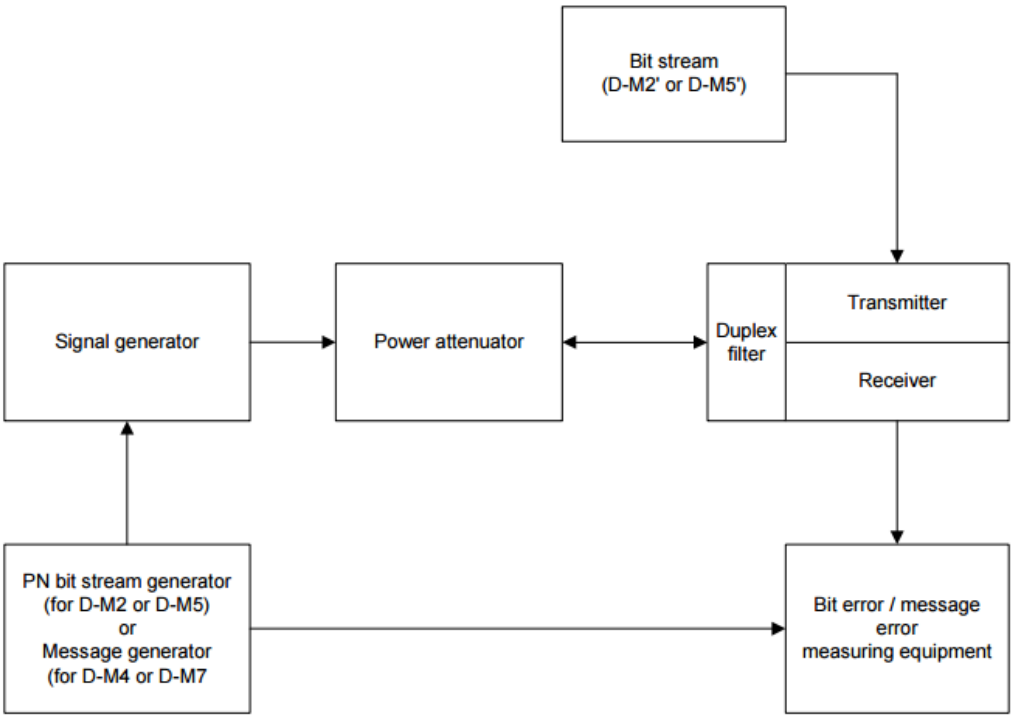
4.3. Receiver desensitization (with simultaneous transmission and reception)

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 9.1

The desensitization shall not exceed 3,0 dB and the limit of maximum usable sensitivity under normal test conditions shall be met.

TEST CONFIGURATION



TEST RESULTS

Test Condition		Reading	Result
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	Reading＜3dB	PASS

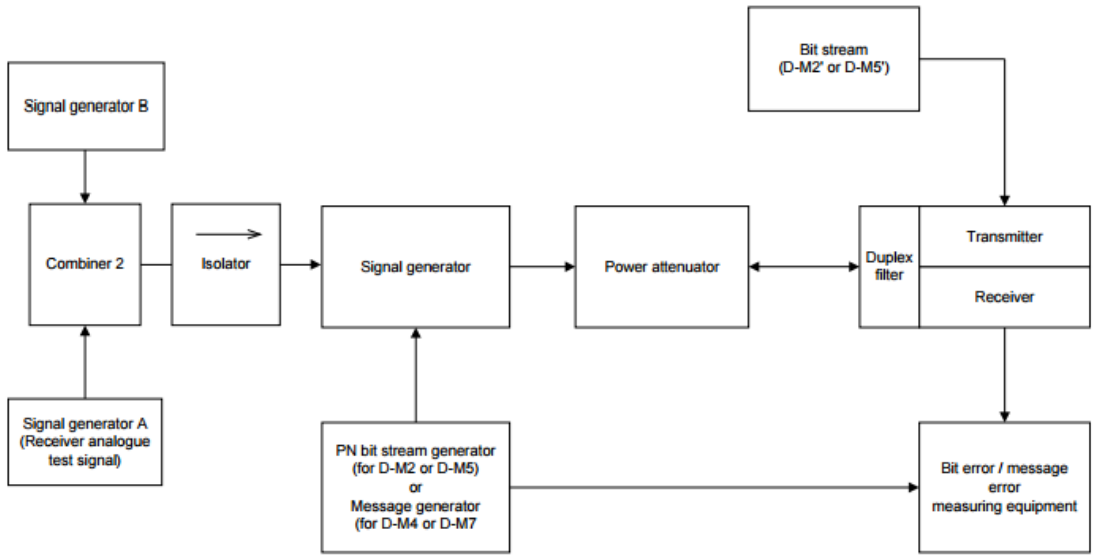
4.4. Receiver spurious response rejection (with simultaneous transmission and reception)

LIMIT

ETSI EN 300 113 (V2.2.1) Sub-clause 9.2

At any frequency separated from the nominal frequency of the receiver by two channels or more, the spurious response rejection shall be such that under the specified test conditions, the given degradation shall not be exceeded for levels of the unwanted signal up to -40 dBm.

TEST CONFIGURATION

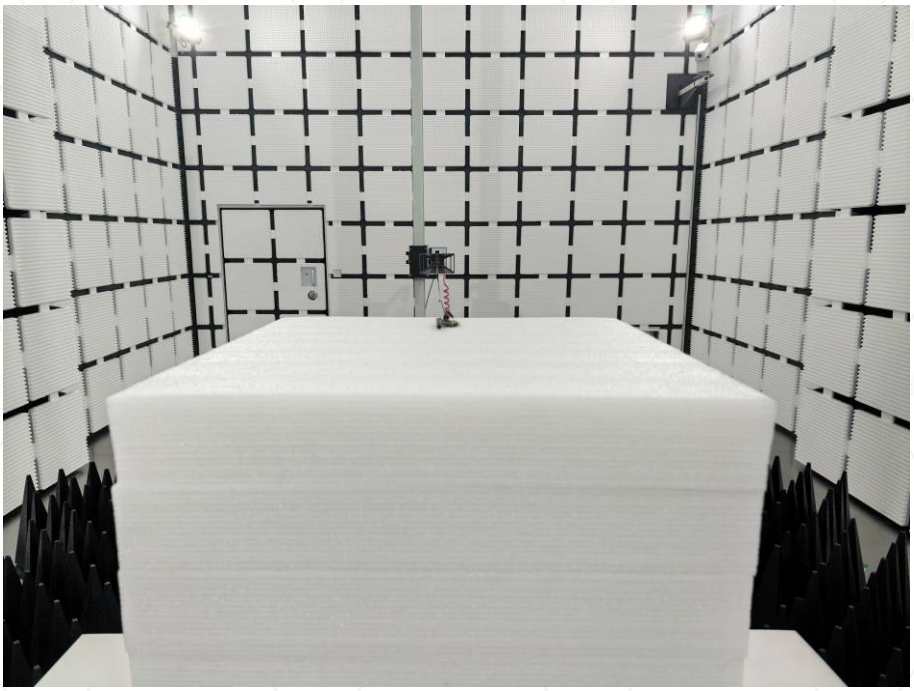


TEST RESULTS

Test Condition		Reading	Result
Temperature (℃)	Voltage (V)		
T_{nor} (+25)	DC 4.2	-51	PASS
Limit		＜-40 dB	

5. Test Setup Photos of the EUT





6. External and Internal Photos of the EUT

Reference to the test report No. SZE2607150575ET03.

.....End of Report.....