



Report No.: SUCR251000102503
Page: 1 of 42

TEST REPORT

Application No: SUCR2510001025WM
Applicant: COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Manufacturer: COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
EUT Description: Smart Phone
Model No.: SN512CC
FCC ID: 2A28USN512CC
Standards: 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
Date of Receipt: 2025-10-22
Date of Test: 2025-11-13
Date of Issue: 2025-11-28

Test Result:	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

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Version

Revision Record			
Version	Description	Date	Remark
01	Original	2025-11-28	/

Authorized for issue by:			
Tested By		Nature Shen	
		Nature Shen / Project Manager	
Approved By		Cedar cheng	
		Cedar Cheng/Technical Manager	

Content

Version	2
1 Test Summary	4
1.1 NR Band n5.....	4
1.2 NR Band n2.....	5
1.3 NR Band n30.....	6
1.4 NR Band n66.....	8
1.5 NR Band n77.....	9
2 General Information	11
2.1 Client Information	11
2.2 Test Location.....	11
2.3 Test Facility	11
2.4 General Description of EUT	12
2.5 Test Mode	13
2.6 Test Environment	13
2.7 Description of Support Units	13
2.8 Technical Specification	14
2.9 Test Frequencies.....	15
3 Main Test Instruments	21
4 Measurement Uncertainty.....	22
5 Description of Tests.....	23
5.1 Field Strength of Spurious Radiation	23
5.2 Test Setups	24
5.3 Test Conditions	25
6 Photographs - Setup Photos	26
7 Appendix.....	27

1 Test Summary

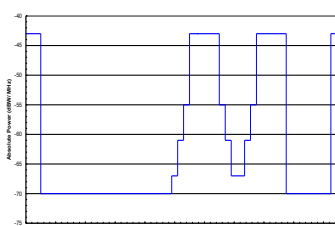
1.1 NR Band n5

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	FCC: ERP $\leq$ 7 W	Section 1 of Appendix B.17	Reference report SUCR250400032303
Peak-Average Ratio	§22.913(d)	Limit $\leq$ 13 dB	Section 4 of Appendix B.17	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.17	
Band Edges Compliance	§2.1051, §22.917(a)	$\leq$ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.17	
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: $\leq$ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.17	
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: $\leq$ -13 dBm/100 kHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §22.355	$\pm$ 2.5ppm.	Section 2 of Appendix B.17	Reference report SUCR250400032303

1.2 NR Band n2

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	$EIRP \leq 2 \text{ W}$	Section 1 of Appendix B.16	Reference report SUCR250400032303
Peak-Average Ratio	§24.232(d)	Limits $\leq 13 \text{ dB}$	Section 4 of Appendix B.16	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.16	
Band Edges Compliance	§2.1051, §24.238(a)	$\leq -13 \text{ dBm/1\%*EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.16	
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	$\leq -13 \text{ dBm/1 MHz}$, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.16	
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	$\leq -13 \text{ dBm/1 MHz}$.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §24.235	Within authorized bands of operation/frequency block.	Section 2 of Appendix B.16	Reference report SUCR250400032303

1.3 NR Band n30

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	EIRP $\leq$ 50mW/1MHz EIRP $\leq$ 250mW/5MHz	Section 1 of Appendix B.18	
Peak-Average Ratio	---	FCC: Limit $\leq$ 13 dB	Section 4 of Appendix B.18	
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.18	
Band Edges Compliance	§2.1051, §27.53(a)(4)	$\leq$ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.18	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	Figure 1: Unwanted Emissions for Mobile, Portable, and Low Power Fixed Subscriber Equipment  For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz; (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.	Section 5 of Appendix B.18	Reference report SUCR250400032303
Field Strength of	§2.1053,	$\leq$ -40dBm/MHz.	Appendix	Pass



Spurious Radiation	§27.53(a)(4)			
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	within the range of the operating frequency blocks	Section 2 of Appendix B.18	Reference report SUCR250400032303

1.4 NR Band n66

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	$EIRP \leq 1\text{ W}$	Section 1 of Appendix B.19	Reference report SUCR250400032303
Peak-Average Ratio	§27.50(d)(5)	Limit $\leq 13\text{ dB}$	Section 4 of Appendix B.19	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.19	
Band Edges Compliance	§2.1051, §27.53(h)	$\leq -13\text{ dBm}/1\% \cdot \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.19	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	$\leq -13\text{ dBm}/1\text{ MHz}$, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.19	
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	$\leq -13\text{ dBm}/1\text{ MHz}$.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Section 2 of Appendix B.19	Reference report SUCR250400032303

1.5 NR Band n77

3700-3980MHz:

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1W	Section 1 of Appendix B.21	Reference report SUCR250400032303
Peak-Average Ratio	---	≤13 dB	Section 4 of Appendix B.21	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.21	
Band Edges Compliance	§2.1051, §27.53(l)(2)	(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.	Section 5 of Appendix B.21	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(l)(2)	not exceed -13 dBm/MHz.	Section 5 of Appendix B.21	
Field Strength of Spurious Radiation	§2.1053, §27.53(l)(2)	not exceed -13 dBm/MHz	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Section 2 of Appendix B.21	Reference report SUCR250400032303

3450-3550MHz:

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(k)(3)	EIRP $\leq$ 30dBm	Section 1 of Appendix B.20	Reference report SUCR250400032303
Peak-Average Ratio	§27.50(k)(4)	FCC: Limit $\leq$ 13 dB	Section 4 of Appendix B.20	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.20	
Band Edges Compliance	§2.1051, §27.50(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Section 5 of Appendix B.20	
Spurious Emission at Antenna Terminals	§2.1051, §27.50(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Section 5 of Appendix B.20	
Field Strength of Spurious Radiation	§2.1053, §27.50(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/ frequency block.	Section 2 of Appendix B.20	Reference report SUCR250400032303

Remark:

This test report (Report No.: SUCR251000102503 issue on 2025-11-28) is based on the original test report (Report No.: SUCR250400032303 issue on 2025/06/13).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report only the Radiated spurious emissions were performed based on the worst case of the original report with report number SUCR250400032303 issue on 2025/06/13 and other test data please refer to the previous report with report number SUCR250400032303 issue on 2025/06/13.

2 General Information

2.1 Client Information

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li

2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

2.4 General Description of EUT

Hardware Version:	1.0			
Software Version:	SN512CCC10008			
IMEI:	RSE	352939250003475		
HPUE Power Class:	Class 2: NR Band n77;			
Antenna Type:	☐ External, ☒ Integrated			
Antenna Gain	NR Band n2:	-0.10dBi(Ant1) -1.80dBi(Ant3)	NR Band n5:	-1.12dBi(Ant0)
	NR Band n30:	-1.40dBi(Ant1) -0.10dBi(Ant3)	NR Band n66:	-0.60dBi(Ant1) -0.80dBi(Ant3)
	NR Band n77:	-0.40dBi(Ant4)		
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	0.8dB(Below 1GHz)	1.0dB(1.0~2.4GHz)	1.2dB(2.4~3.4GHz)	
	1.5dB(Above 3.4GHz)			
Remark: Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.				

2.5 Test Mode

Test Mode	Test Modes Description
NR/TM1	NR system, DFT-s-Pi/2-BPSK modulation
NR/TM2	NR system, DFT-s-QPSK modulation
NR/TM3	NR system, DFT-s-16QAM modulation
NR/TM4	NR system, DFT-s-64QAM modulation
NR/TM5	NR system, DFT-s-256QAM modulation
NR/TM6	NR system, CP-QPSK modulation
NR/TM7	NR system, CP-16QAM modulation
NR/TM8	NR system, CP-64QAM modulation
NR/TM9	NR system, CP-256QAM modulation
Remark: The test mode(s) are selected according to relevant radio technology specifications.	

2.6 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature (°C)	Voltage(V)
NTNV	22~23	3.8
LTLV	-10	3.6
LTHV	-10	4.4
HTLV	55	3.6
HTHV	55	4.4
Remark:		
NV: Normal Voltage	LV: Low Extreme Test Voltage	HV: High Extreme Test Voltage
NT: Normal Temperature	LT: Low Extreme Test Temperature	HT: High Extreme Test Temperature

2.7 Description of Support Units

The EUT has been tested as an independent unit.

2.8 Technical Specification

Characteristics	Description		
Radio System Type	☒ SA ☒ NSA		
Supported Frequency Rang	Band	TX	RX
	NR Band n2	1850 to 1910 MHz	1930 to 1990 MHz
	NR Band n5	824 to 849 MHz	869 to 894 MHz
	NR Band n30	2305 to 2315 MHz	2350 to 2360 MHz
	NR Band n66	1710 to 1780 MHz	2110 to 2200 MHz
	NR Band n77	3700 to 3980 MHz	3700 to 3980 MHz
		3450 to 3550 MHz	3450 to 3550 MHz
	ENDC DC_5A_n2A;DC_12A_n2A;DC_14A_n2A;DC_30A_n2A;DC_66A_n2A; DC_2A_n5A;DC_30A_n5A;DC_66A_n5A;DC_2A_n30A;DC_5A_n30A; DC_12A_n30A;DC_14A_n30A;DC_66A_n30A;DC_2A_n66A;DC_5A_n66A; DC_12A_n66A;DC_14A_n66A;DC_30A_n66A;DC_2A_n77A;DC_5A_n77A; DC_30A_n77A;DC_66A_n77A;DC_12A_n77A;DC_14A_n77A;DC_66A_n66A; DC_2A_n2A Remark: ENDC only test RSE, report only show worst mode.		
Supported Channel Bandwid	NR Band n2	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz ☒ 15 MHz ☒ 20 MHz
	NR Band n5	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz ☒ 15 MHz ☒ 20 MHz
	NR Band n30	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz
	NR Band n66	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz ☒ 15 MHz ☒ 20 MHz
		☒ 40 MHz	
	NR Band n77	SCS 15kHz:	
		☒ 10 MHz	☒ 15 MHz ☒ 20 MHz ☒ 40 MHz
		☒ 50 MHz	
		SCS 30kHz	
		☒ 10 MHz	☒ 15 MHz ☒ 20 MHz ☒ 40 MHz
		☒ 50 MHz	☒ 60 MHz ☒ 80 MHz ☒ 90 MHz
☒ 100 MHz			
*Remark: The SCS 15kHz and 30kHz of all NR band are tested, but only showed the worst case in this report.			

2.9 Test Frequencies

2.9.1 Reference test frequencies for NR operating band n2

2.9.1.1 Test frequencies for NR operating band n2 and SCS 15 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
5	Downlink	Low	1932.5	386500	15
		Mid	1960	392000	
		High	1987.5	397500	
	Uplink	Low	1852.5	370500	-
		Mid	1880	376000	
		High	1907.5	381500	
10	Downlink	Low	1935	387000	15
		Mid	1960	392000	
		High	1985	397000	
	Uplink	Low	1855	371000	-
		Mid	1880	376000	
		High	1905	381000	
15	Downlink	Low	1937.5	387500	15
		Mid	1960	392000	
		High	1982.5	396500	
	Uplink	Low	1857.5	371500	-
		Mid	1880	376000	
		High	1902.5	380500	
20	Downlink	Low	1940	388000	15
		Mid	1960	392000	
		High	1980	396000	
	Uplink	Low	1860	372000	-
		Mid	1880	376000	
		High	1900	380000	

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2.9.2 Reference test frequencies for NR operating band n5

2.9.2.1 Test frequencies for NR operating band n5 and SCS 15 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
5	Downlink	Low	871.5	174300	15
		Mid	881.5	176300	
		High	891.5	178300	
	Uplink	Low	826.5	165300	-
		Mid	836.5	167300	
		High	846.5	169300	
10	Downlink	Low	874	174800	15
		Mid	881.5	176300	
		High	889	177800	
	Uplink	Low	829	165800	-
		Mid	836.5	167300	
		High	844	168800	
15	Downlink	Low	876.5	175300	15
		Mid	881.5	176300	
		High	886.5	177300	
	Uplink	Low	831.5	166300	-
		Mid	836.5	167300	
		High	841.5	168300	
20	Downlink	Low	879	175800	15
		Mid	881.5	176300	
		High	884	176800	
	Uplink	Low	834	166800	-
		Mid	836.5	167300	
		High	839	167800	

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2.9.3 Reference test frequencies for NR operating band n30

2.9.3.1 Test frequencies for NR operating band n30 and SCS 15 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
5	Downlink	Low	2352.5	470500	15
		Mid	2355	471000	
		High	2357.5	471500	
	Uplink	Low	2307.5	461500	-
		Mid	2310	462000	
		High	2312.5	462500	
10	Downlink	Low	2355	471000	15
		Mid	2355	471000	
		High	2355	471000	
	Uplink	Low	2310	462000	-
		Mid	2310	462000	
		High	2310	462000	

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2.9.4 Reference test frequencies for NR operating band n66

2.9.4.1 Test frequencies for NR operating band n66 and SCS 15 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
5	Downlink	Low	2112.5	422500	15
		Mid	2155	431000	
		High	2197.5	439500	
	Uplink	Low	1712.5	342500	-
		Mid	1745	349000	
		High	1777.5	355500	
10	Downlink	Low	2115	423000	15
		Mid	2155	431000	
		High	2195	439000	
	Uplink	Low	1715	343000	-
		Mid	1745	349000	
		High	1775	355000	
15	Downlink	Low	2117.5	423500	15
		Mid	2155	431000	
		High	2192.5	438500	
	Uplink	Low	1717.5	343500	-
		Mid	1745	349000	
		High	1772.5	354500	
20	Downlink	Low	2120	424000	15
		Mid	2155	431000	
		High	2190	438000	
	Uplink	Low	1720	344000	-
		Mid	1745	349000	
		High	1770	354000	
40	Downlink	Low	2130	426000	15
		Mid	2155	431000	
		High	2180	436000	
	Uplink	Low	1730	346000	-
		Mid	1745	349000	
		High	1760	352000	

2.9.5 Reference test frequencies for NR operating band n77

2.9.5.1 Test frequencies for NR operating band n77 and SCS 30 kHz

3700-3980:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
10	Downlink & Uplink	Low	3705	647000	30
		Mid	3840	656000	
		High	3975	665000	
15	Downlink & Uplink	Low	3707.52	647168	30
		Mid	3840	656000	
		High	3972.48	664832	
20	Downlink & Uplink	Low	3710.01	647334	30
		Mid	3840	656000	
		High	3969.99	664666	
40	Downlink & Uplink	Low	3720	648000	30
		Mid	3840	656000	
		High	3960	664000	
50	Downlink & Uplink	Low	3725.01	648334	30
		Mid	3840	656000	
		High	3954.99	663666	
60	Downlink & Uplink	Low	3730.02	648668	30
		Mid	3840	656000	
		High	3949.98	663332	
80	Downlink & Uplink	Low	3740.01	649334	30
		Mid	3840	656000	
		High	3939.99	662666	
90	Downlink & Uplink	Low	3745.02	649668	30
		Mid	3840	656000	
		High	3934.98	662332	
100	Downlink & Uplink	Low	3750	650000	30
		Mid	3840	656000	
		High	3930	662000	

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307 1443, or email: CN.Doccheck@sgs.com

3450-3550:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
10	Downlink & Uplink	Low	3455.01	630334	30
		Mid	3500.01	633334	
		High	3545.01	636334	
15	Downlink & Uplink	Low	3457.5	630500	30
		Mid	3500.01	633334	
		High	3542.49	636166	
20	Downlink & Uplink	Low	3460.02	630668	30
		Mid	3500.01	633334	
		High	3540	636000	
40	Downlink & Uplink	Low	3470.01	631334	30
		Mid	3500.01	633334	
		High	3530.01	635334	
50	Downlink & Uplink	Low	3475.02	631668	30
		Mid	3500.01	633334	
		High	3525	635000	
60	Downlink & Uplink	Low	3480	632000	30
		Mid	3500.01	633334	
		High	3519.99	634666	
80	Downlink & Uplink	Low	3490.02	632668	30
		Mid	3500.01	633334	
		High	3510	634000	
90	Downlink & Uplink	Low	3495	633000	30
		Mid	3500.01	633334	
		High	3504.99	633666	
100	Downlink & Uplink	Low	\	\	30
		Mid	3500.01	633334	
		High	\	\	

3 Main Test Instruments

RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	11/25/2024	11/24/2027
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2/13/2025	2/12/2026
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/20/2025	1/19/2026
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	11/21/2024	11/20/2025
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9168	SUWI-01-11-04	9/13/2025	9/12/2026
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	11/25/2023	11/24/2025
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/7/2025	5/6/2026
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/7/2025	5/6/2026
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	11/19/2024	11/18/2025
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	11/19/2024	11/18/2025
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	11/19/2024	11/18/2025
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	1/20/2025	1/19/2026
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/19/2024	11/18/2025
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR
Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-06	11/19/2024	11/18/2025

Remark: NCR=No Calibration Requirement.

4 Measurement Uncertainty

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

No.	Item	Measurement Uncertainty
1	Radiated Emission	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.8\text{dB}$ (30M -1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 18 GHz)
		$\pm 4.8\text{dB}$ (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

5 Description of Tests

5.1 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8; \text{ where D is the measurement distance in meters}$$

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8; \text{ where D is the measurement distance in meters}$$
- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \log(3/1) = 9.54 \text{ dB}$.

Remark: Reference test setup 2

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

$AF = \text{Antenna Factor(dB/m)}$

$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier (dB)}$

$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$

$\text{Margin} = \text{Limit} - \text{Level}$

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) All modes have been tested, but only the worst case data displayed in this report.

5.2 Test Setups

5.2.1 Test Setup 2

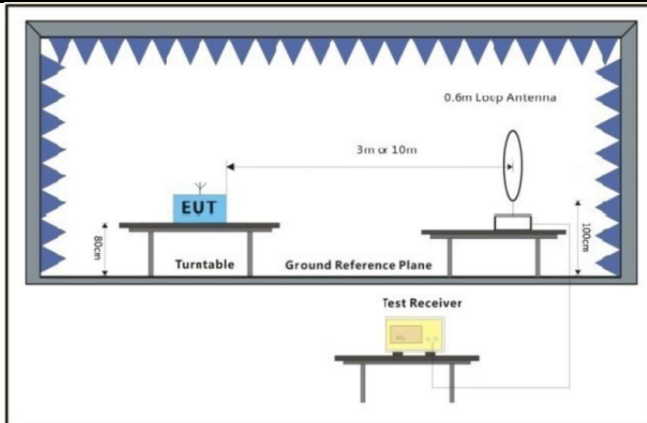


Figure 1. Below 30MHz

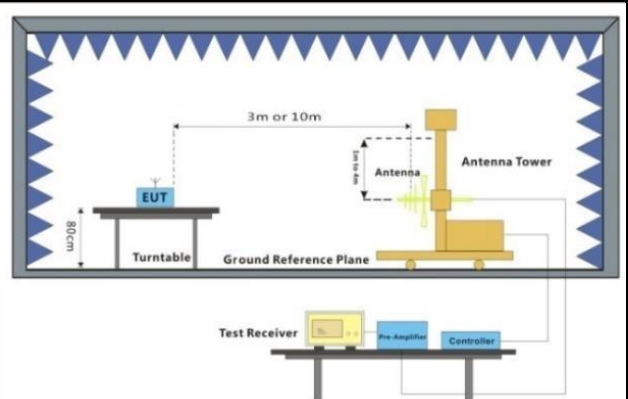


Figure 2. 30MHz to 1GHz

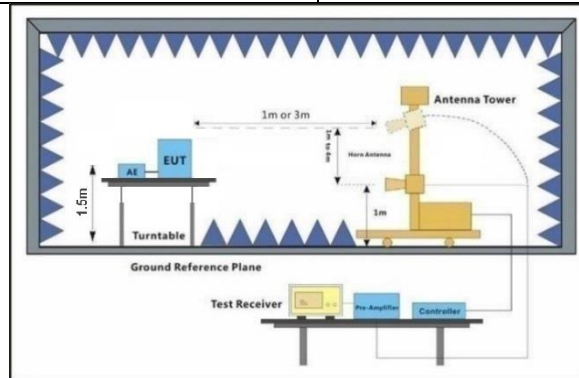


Figure 3. above 1GHz

5.3 Test Conditions

Field Strength of Spurious Radiation	
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 2
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	NR/TM1 Remark: All bandwidth and modulation of NR have been pre tested, and only the worst results are reflected in the report.



Report No.: SUCR251000102503

Page: 26 of 42

6 Photographs - Setup Photos

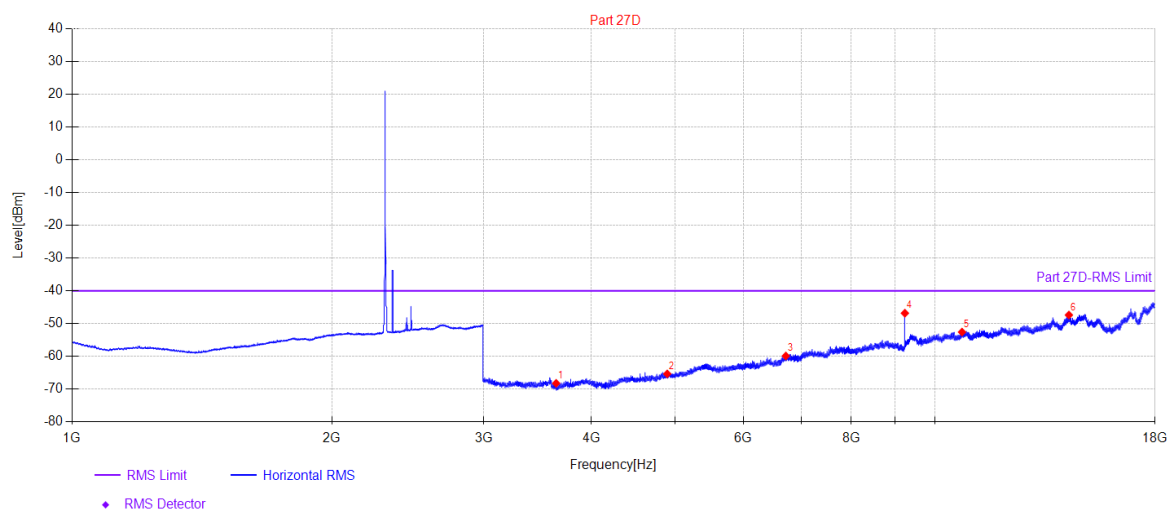
Refer to Appendix A.3 WWAN Setup Photos.

7 Appendix

Field Strength of Spurious Radiation

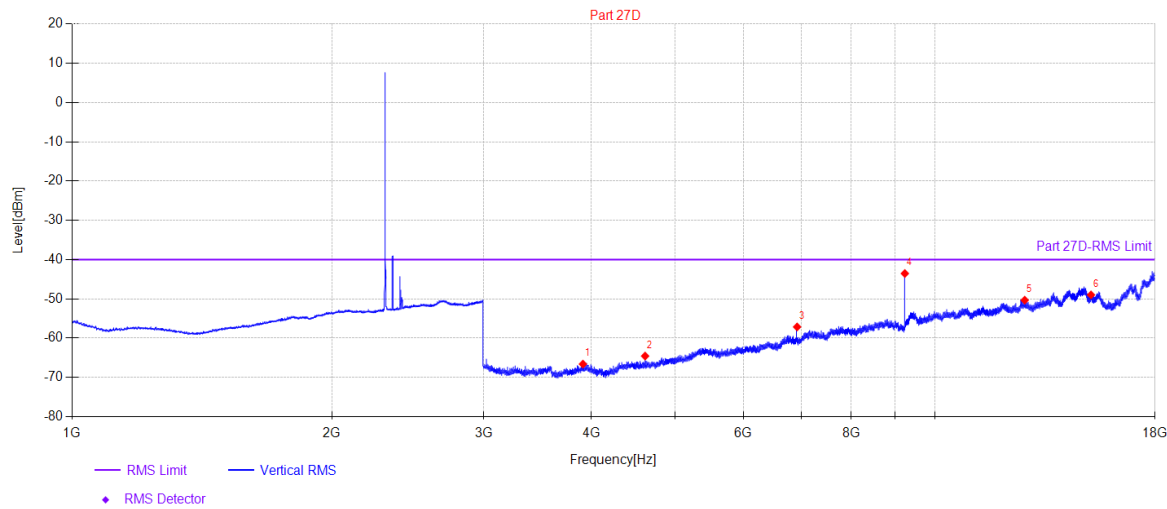
Test Band = NR N 30_10Mhz_ TM1

Test Channel = Mid Channel



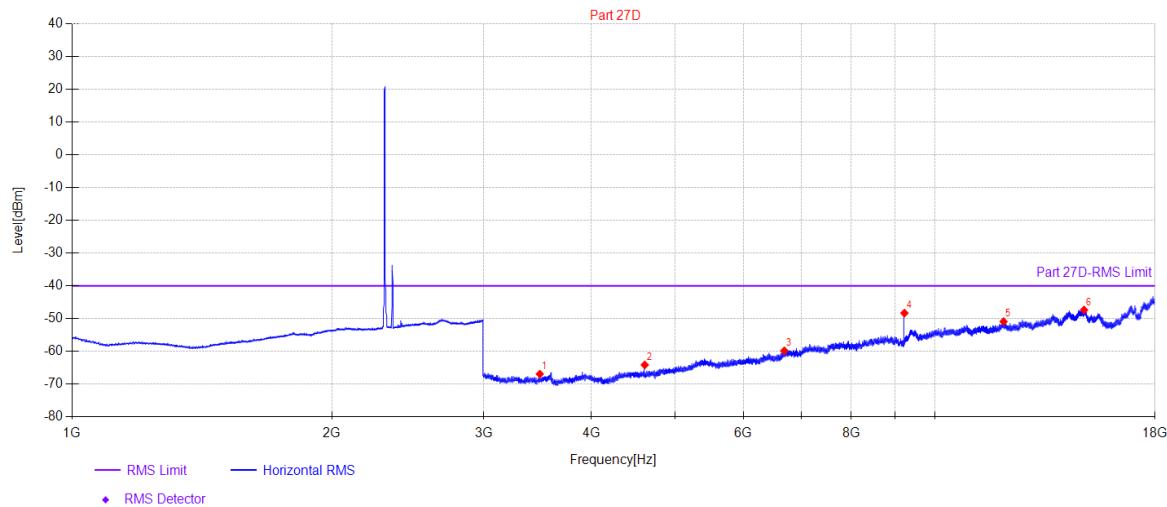
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3639.5	46.63	-48.37	28.72	-68.28	-40.00	28.28	Horizontal
2	4896	46.93	-48.03	30.97	-65.39	-40.00	25.39	Horizontal
3	6718.5	46.90	-46.61	35.05	-59.92	-40.00	19.92	Horizontal
4	9231	54.02	-43.34	37.72	-46.85	-40.00	6.85	Horizontal
5	10753.5	44.17	-40.85	39.33	-52.62	-40.00	12.62	Horizontal
6	14300	46.00	-38.42	40.27	-47.41	-40.00	7.41	Horizontal

Test Band = NR N 30_10Mhz_ TM1
Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3909.5	47.78	-48.28	29.16	-66.60	-40.00	26.60	Vertical
2	4615.5	48.34	-47.99	30.35	-64.56	-40.00	24.56	Vertical
3	6923.5	49.44	-46.70	35.38	-57.14	-40.00	17.14	Vertical
4	9231.5	57.33	-43.33	37.72	-43.54	-40.00	3.54	Vertical
5	12709	45.23	-39.27	38.97	-50.33	-40.00	10.33	Vertical
6	15170.5	44.73	-38.35	39.89	-48.98	-40.00	8.98	Vertical

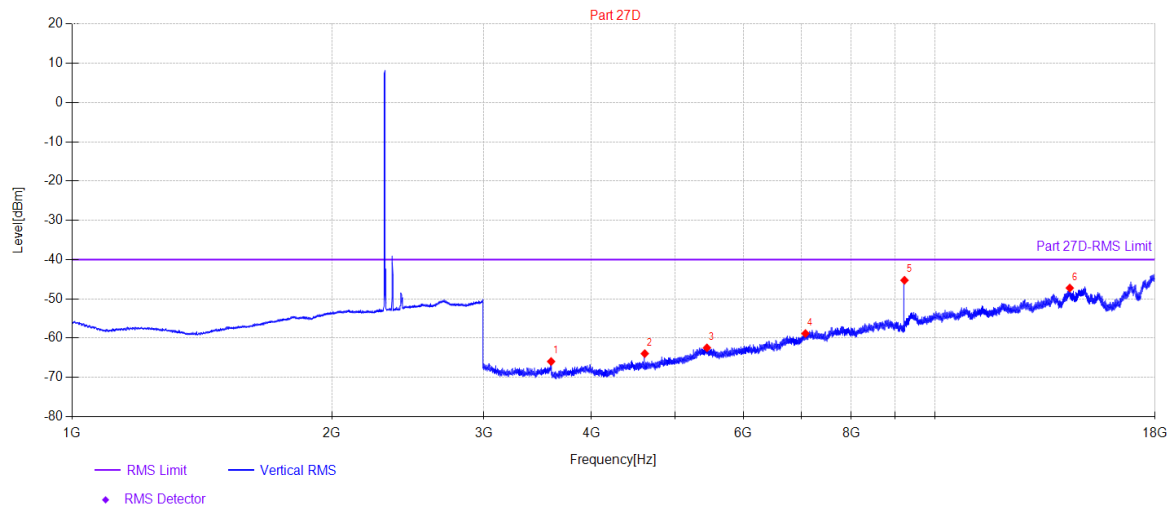
Test Band = NR N 30_5Mhz_TM1
 Test Channel = Low Channel



Data List

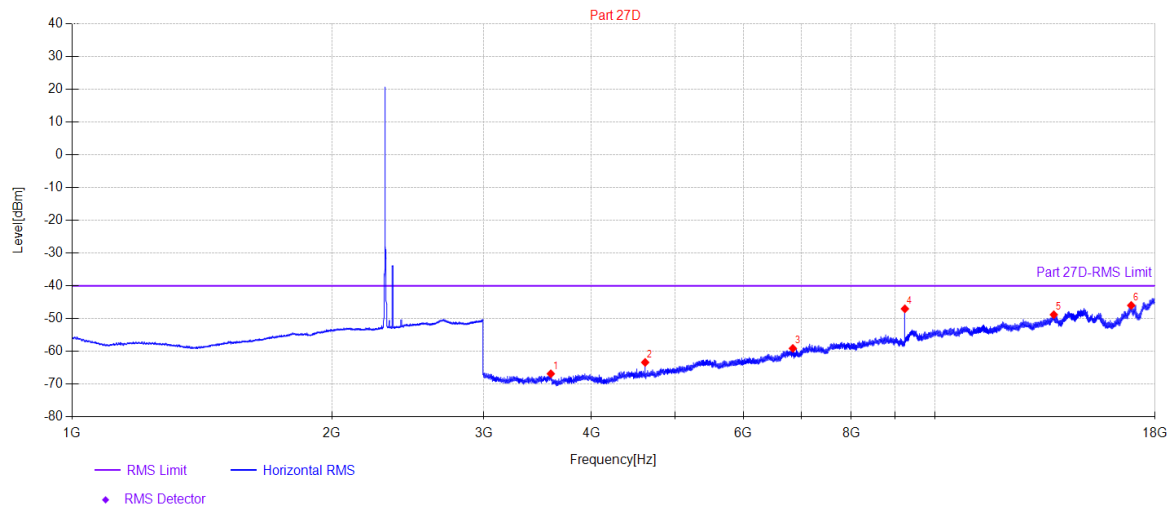
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3484.5	48.11	-48.31	28.49	-66.97	-40.00	26.97	Horizontal
2	4610.5	48.72	-48.00	30.34	-64.19	-40.00	24.19	Horizontal
3	6691	46.99	-46.60	35.01	-59.86	-40.00	19.86	Horizontal
4	9221	52.61	-43.40	37.71	-48.34	-40.00	8.34	Horizontal
5	12014	44.38	-39.45	39.39	-50.94	-40.00	10.94	Horizontal
6	14891.5	44.98	-37.33	40.21	-47.39	-40.00	7.39	Horizontal

Test Band = NR N 30_5Mhz_TM1
Test Channel = Low Channel



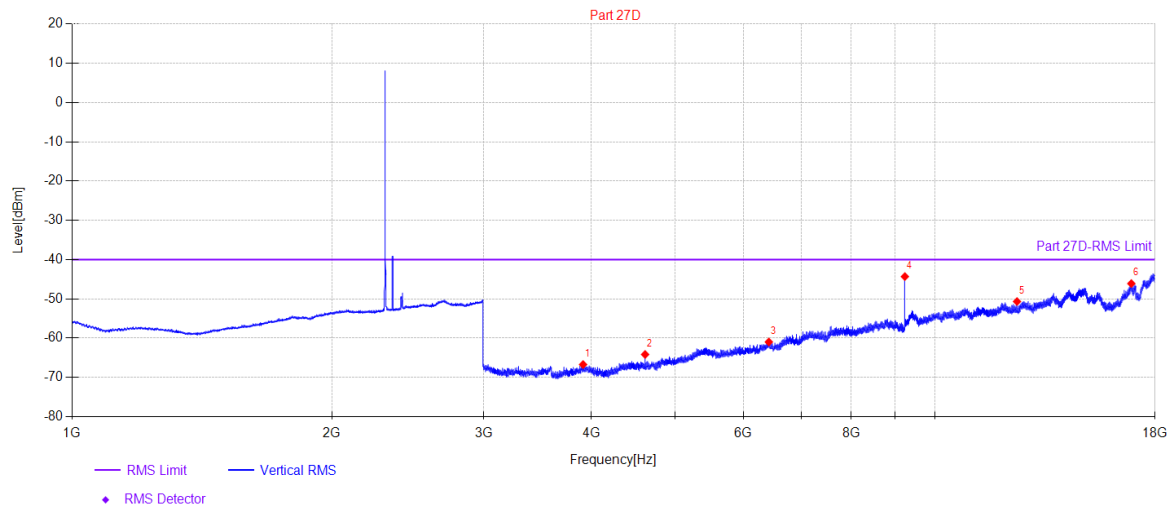
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3591	48.95	-48.28	28.65	-65.95	-40.00	25.95	Vertical
2	4611	48.97	-48.00	30.34	-63.94	-40.00	23.94	Vertical
3	5443	48.03	-47.67	32.44	-62.46	-40.00	22.46	Vertical
4	7079.5	46.78	-45.99	35.64	-58.82	-40.00	18.82	Vertical
5	9221.5	55.69	-43.40	37.71	-45.26	-40.00	5.26	Vertical
6	14335	46.23	-38.48	40.27	-47.24	-40.00	7.24	Vertical

Test Band = NR N 30_5Mhz_TM1
Test Channel = Mid Channel



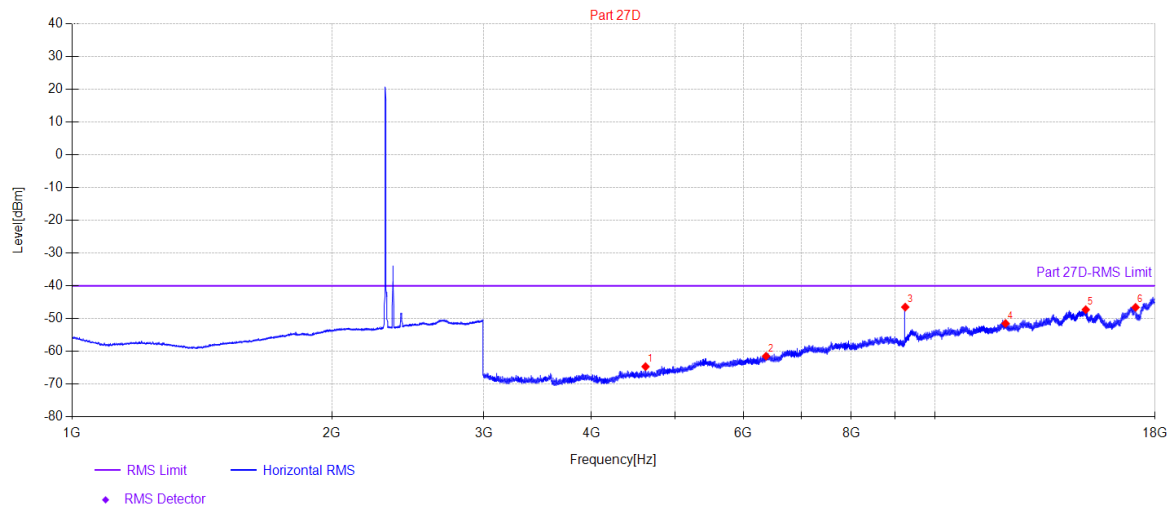
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3588.5	48.02	-48.28	28.64	-66.88	-40.00	26.88	Horizontal
2	4615.5	49.48	-47.99	30.35	-63.42	-40.00	23.42	Horizontal
3	6846	47.68	-46.82	35.25	-59.14	-40.00	19.14	Horizontal
4	9231.5	53.83	-43.33	37.72	-47.04	-40.00	7.04	Horizontal
5	13737.5	44.88	-38.36	39.91	-48.83	-40.00	8.83	Horizontal
6	16889.5	47.36	-36.86	38.76	-46.00	-40.00	6.00	Horizontal

Test Band = NR N 30_5Mhz_TM1
 Test Channel = Mid Channel



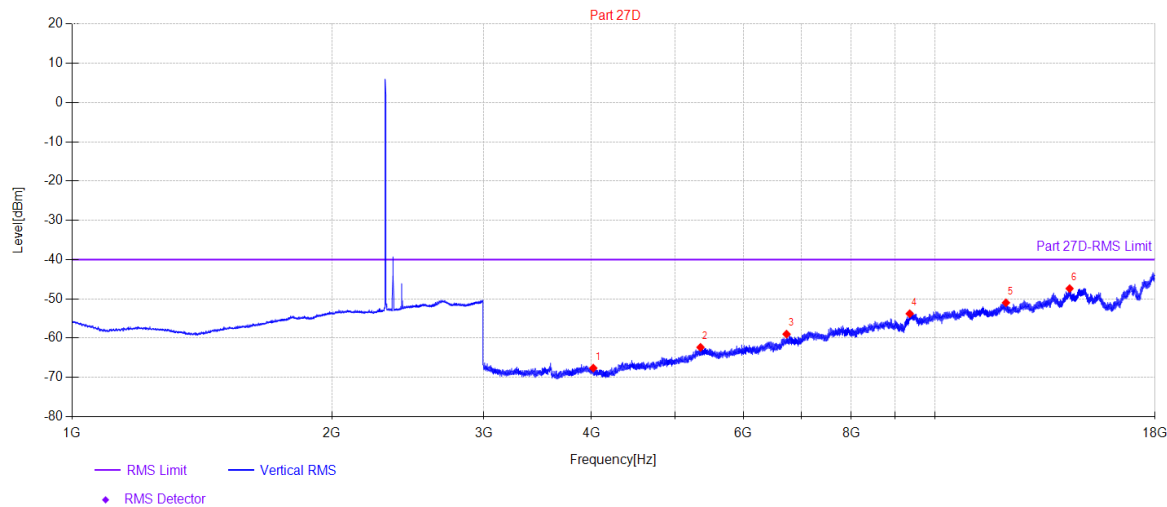
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3911	47.66	-48.28	29.16	-66.72	-40.00	26.72	Vertical
2	4615.5	48.74	-47.99	30.35	-64.16	-40.00	24.16	Vertical
3	6421	46.82	-46.94	34.40	-60.98	-40.00	20.98	Vertical
4	9231.5	56.55	-43.33	37.72	-44.32	-40.00	4.32	Vertical
5	12452	45.19	-39.73	39.13	-50.67	-40.00	10.67	Vertical
6	16894.5	47.21	-36.82	38.76	-46.11	-40.00	6.11	Vertical

Test Band = NR N 30_5Mhz_TM1
 Test Channel = High Channel



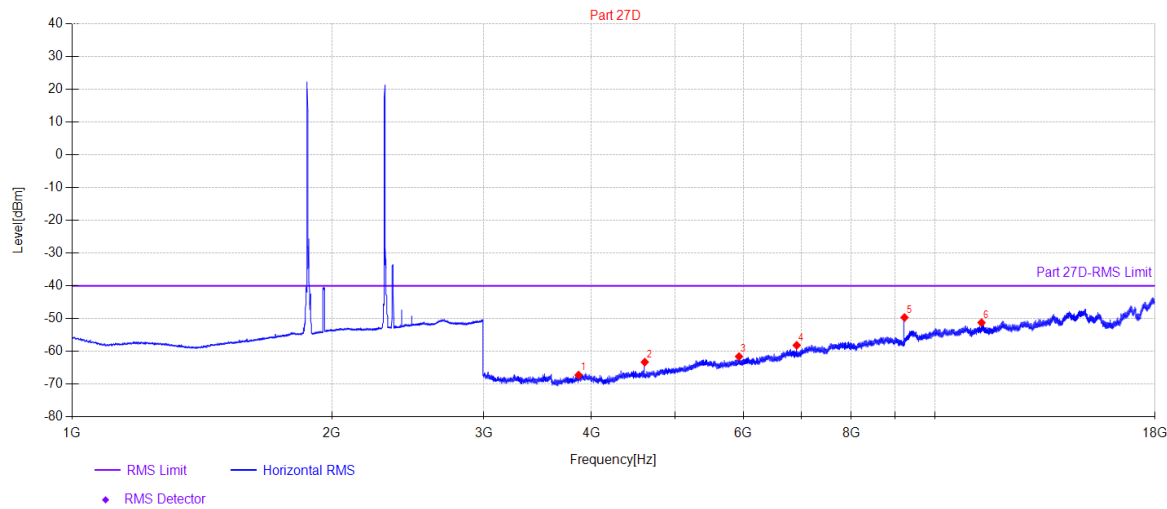
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.5	48.19	-47.99	30.37	-64.70	-40.00	24.70	Horizontal
2	6372.5	46.57	-47.04	34.22	-61.51	-40.00	21.51	Horizontal
3	9241.5	54.28	-43.27	37.74	-46.51	-40.00	6.51	Horizontal
4	12077	43.98	-39.58	39.35	-51.51	-40.00	11.51	Horizontal
5	14959.5	45.51	-37.74	40.20	-47.29	-40.00	7.29	Horizontal
6	17087.5	46.86	-37.51	39.33	-46.59	-40.00	6.59	Horizontal

Test Band = NR N 30_5Mhz_TM1
Test Channel = High Channel



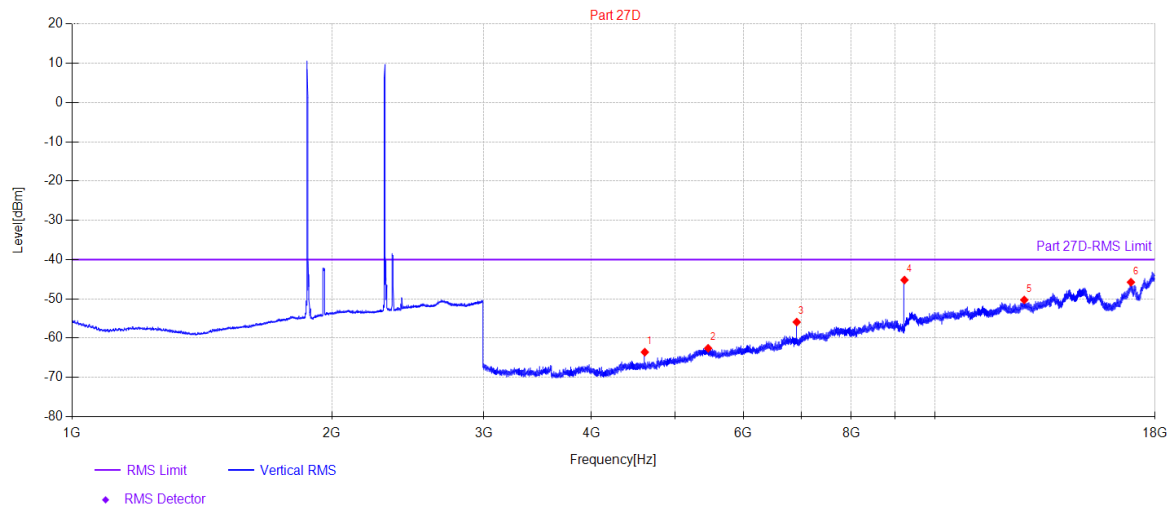
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NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4019	46.46	-48.16	29.33	-67.63	-40.00	27.63	Vertical
2	5350.5	48.49	-47.75	32.18	-62.34	-40.00	22.34	Vertical
3	6731.5	47.87	-46.66	35.07	-58.98	-40.00	18.98	Vertical
4	9351	46.56	-42.97	37.89	-53.78	-40.00	13.78	Vertical
5	12090	44.53	-39.61	39.35	-50.99	-40.00	10.99	Vertical
6	14329	46.08	-38.47	40.27	-47.38	-40.00	7.38	Vertical

Test Band = NSA 2A-30A_10MHZ_ TM1
Test Channel = Mid Channel



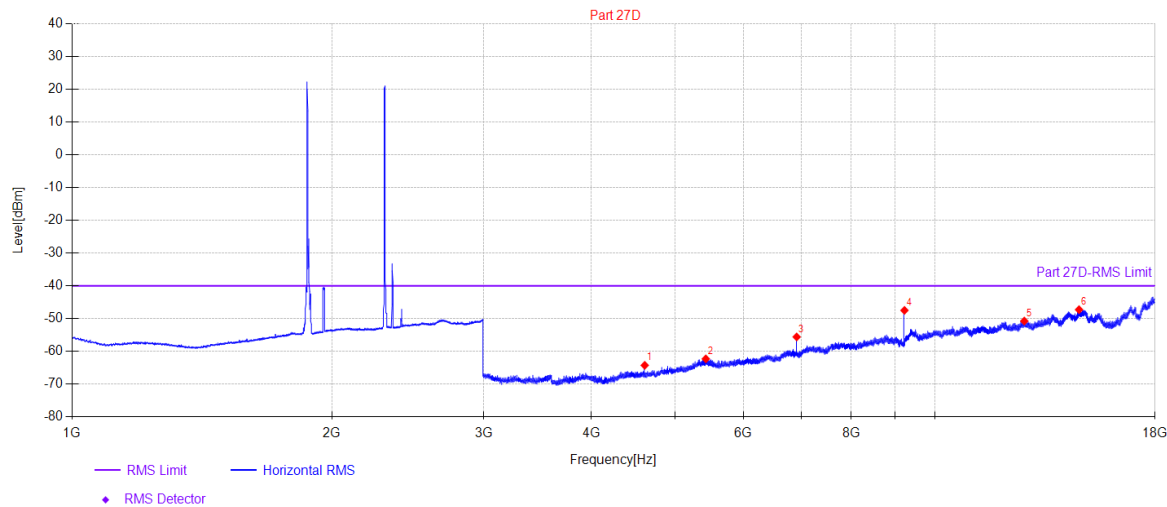
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3864	47.13	-48.25	29.08	-67.30	-40.00	27.30	Horizontal
2	4611	49.58	-48.00	30.34	-63.33	-40.00	23.33	Horizontal
3	5929.5	48.13	-47.25	32.77	-61.61	-40.00	21.61	Horizontal
4	6916.5	48.42	-46.71	35.37	-58.18	-40.00	18.18	Horizontal
5	9222.5	51.24	-43.39	37.71	-49.70	-40.00	9.70	Horizontal
6	11326	44.88	-40.36	39.47	-51.27	-40.00	11.27	Horizontal

Test Band = NSA 2A-30A_10MHZ_ TM1
Test Channel = Mid Channel



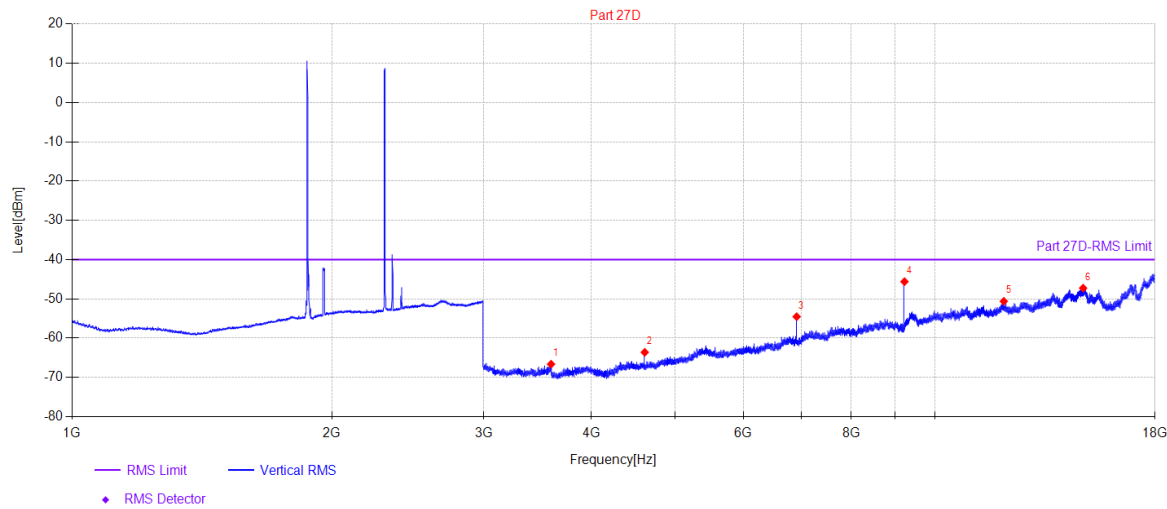
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611.5	49.34	-48.00	30.35	-63.57	-40.00	23.57	Vertical
2	5460.5	47.83	-47.65	32.49	-62.59	-40.00	22.59	Vertical
3	6917	50.69	-46.71	35.37	-55.91	-40.00	15.91	Vertical
4	9222	55.74	-43.39	37.71	-45.20	-40.00	5.20	Vertical
5	12695	45.26	-39.26	38.98	-50.27	-40.00	10.27	Vertical
6	16876	47.71	-36.96	38.75	-45.76	-40.00	5.76	Vertical

Test Band = NSA 2A-30A_5MHZ_ TM1
Test Channel = Low Channel



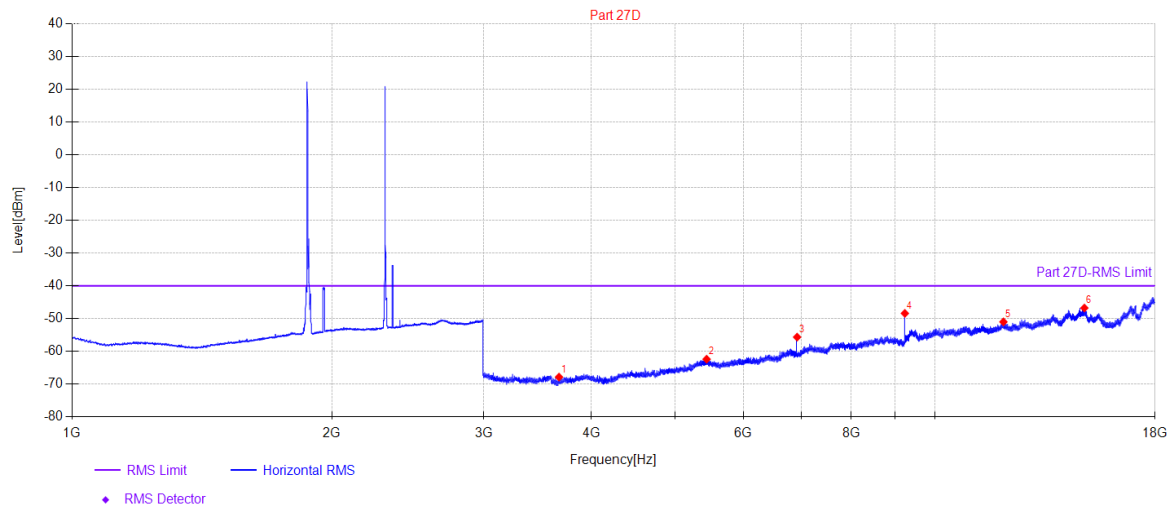
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	48.61	-48.00	30.34	-64.30	-40.00	24.30	Horizontal
2	5426.5	48.22	-47.69	32.39	-62.34	-40.00	22.34	Horizontal
3	6916	50.97	-46.71	35.37	-55.63	-40.00	15.63	Horizontal
4	9221.5	53.44	-43.40	37.71	-47.51	-40.00	7.51	Horizontal
5	12696	44.77	-39.26	38.98	-50.77	-40.00	10.77	Horizontal
6	14693	44.50	-36.77	40.23	-47.30	-40.00	7.30	Horizontal

Test Band = NSA 2A-30A_5MHZ_ TM1
Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3590.5	48.27	-48.28	28.64	-66.63	-40.00	26.63	Vertical
2	4610.5	49.30	-48.00	30.34	-63.61	-40.00	23.61	Vertical
3	6916	52.06	-46.71	35.37	-54.54	-40.00	14.54	Vertical
4	9221.5	55.34	-43.40	37.71	-45.61	-40.00	5.61	Vertical
5	12020.5	44.72	-39.46	39.39	-50.62	-40.00	10.62	Vertical
6	14854	44.91	-37.13	40.21	-47.27	-40.00	7.27	Vertical

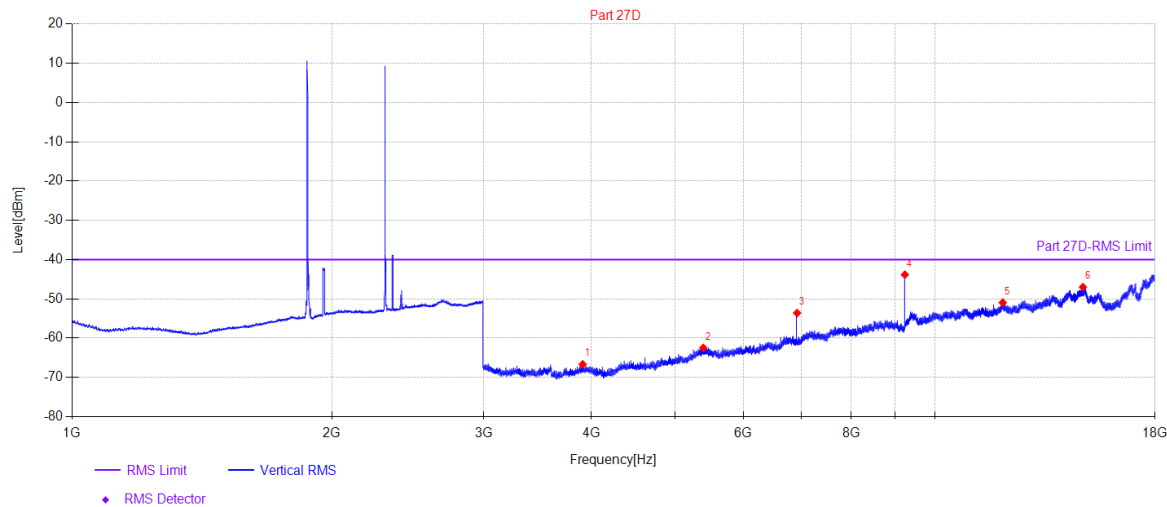
Test Band = NSA 2A-30A_5MHZ_ TM1
 Test Channel = Mid Channel



Data List

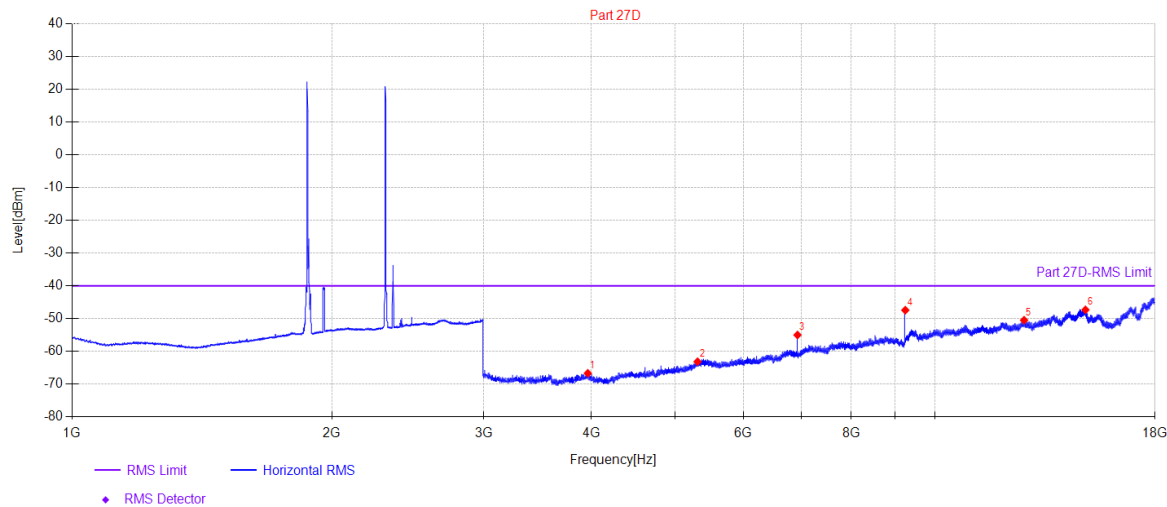
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3667.5	47.02	-48.44	28.77	-67.91	-40.00	27.91	Horizontal
2	5438.5	48.08	-47.68	32.43	-62.43	-40.00	22.43	Horizontal
3	6923.5	50.90	-46.70	35.38	-55.68	-40.00	15.68	Horizontal
4	9231.5	52.44	-43.33	37.72	-48.43	-40.00	8.43	Horizontal
5	12008	44.26	-39.44	39.40	-51.04	-40.00	11.04	Horizontal
6	14904.5	45.66	-37.40	40.21	-46.79	-40.00	6.79	Horizontal

Test Band = NSA 2A-30A_5MHZ_ TM1
Test Channel = Mid Channel



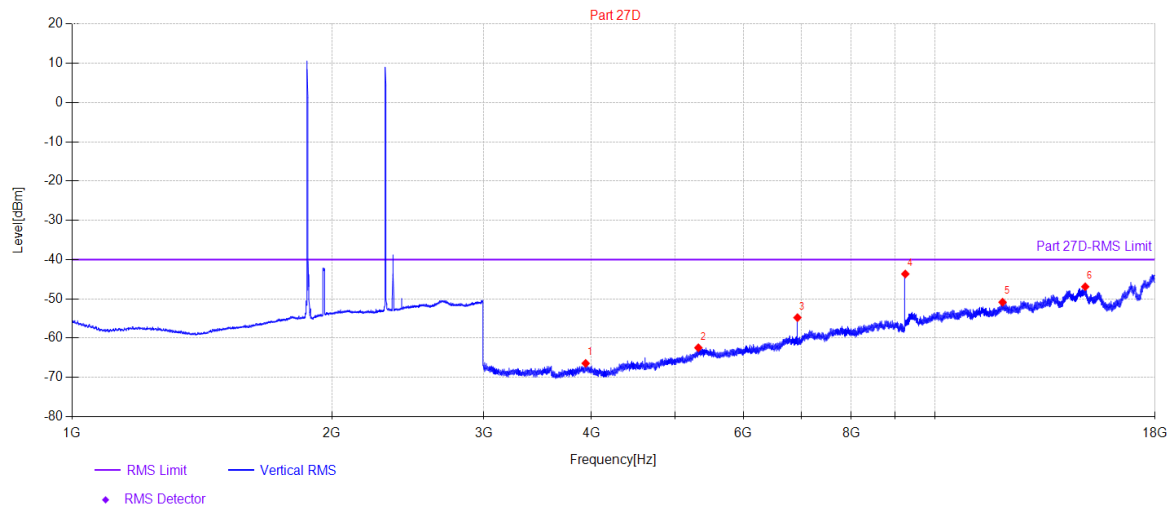
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3906.5	47.72	-48.28	29.15	-66.67	-40.00	26.67	Vertical
2	5391	48.20	-47.73	32.29	-62.49	-40.00	22.49	Vertical
3	6923.5	52.98	-46.70	35.38	-53.60	-40.00	13.60	Vertical
4	9231.5	57.03	-43.33	37.72	-43.84	-40.00	3.84	Vertical
5	11985.5	44.41	-39.50	39.40	-50.95	-40.00	10.95	Vertical
6	14846	45.14	-37.09	40.22	-46.99	-40.00	6.99	Vertical

Test Band = NSA 2A-30A_5MHZ_ TM1
 Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3961	47.51	-48.22	29.24	-66.74	-40.00	26.74	Horizontal
2	5308	47.77	-47.78	32.06	-63.20	-40.00	23.20	Horizontal
3	6931	51.53	-46.69	35.39	-55.03	-40.00	15.03	Horizontal
4	9241.5	53.33	-43.27	37.74	-47.46	-40.00	7.46	Horizontal
5	12690.5	45.00	-39.24	38.99	-50.52	-40.00	10.52	Horizontal
6	14947	45.38	-37.67	40.21	-47.34	-40.00	7.34	Horizontal

Test Band = NSA 2A-30A_5MHZ_ TM1
Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3938	47.89	-48.25	29.20	-66.42	-40.00	26.42	Vertical
2	5320	48.48	-47.77	32.10	-62.45	-40.00	22.45	Vertical
3	6931	51.78	-46.69	35.39	-54.78	-40.00	14.78	Vertical
4	9241.5	57.13	-43.27	37.74	-43.66	-40.00	3.66	Vertical
5	11982	44.53	-39.52	39.40	-50.85	-40.00	10.85	Vertical
6	14939	45.76	-37.62	40.21	-46.91	-40.00	6.91	Vertical

---End of Report---