



**SGS-CSTC STANDARDS TECHNICAL SERVICES
(XI 'AN) CO., LTD.**

Report No.: XAR/2021/1000808

Page: 1 of 60

FCC TEST REPORT

Application No: AR/2021/10008
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: M2103K19G / M2103K19PG
Trade Mark: Redmi / POCO
FCC ID: 2AFZZK19G
Standards: 47 CFR Part 2
47 CFR Part 27 subpart C
Test Method: FCC KDB 971168 D01 Power Meas License Digital Systems V03r01 C63.26 (2015)
Date of Receipt: 2021/2/8
Date of Test: 2021/2/8 to 2021/4/2
Date of Issue: 2021/4/2

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

Authorized Signature:

Derek Yang
Wireless Laboratory Manager



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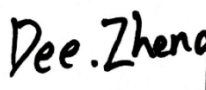
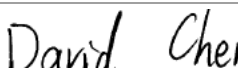
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/4/2		Original

Authorized for issue by:		
Prepared By		 (Dee Zheng) /Engineer
Checked By		 (David Chen) /Reviewer



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Content

1	VERSION	2
2	TEST SUMMARY	4
2.1	NR BAND N7/N38/N41	4
2.2	NR BAND N66(ENDC DC_7A_N66A)	4
2.3	NR BAND N77/N78	4
3	GENERAL INFORMATION	5
3.1	CLIENT INFORMATION	5
3.2	TEST LOCATION	5
3.3	TEST FACILITY	5
3.4	GENERAL DESCRIPTION OF EUT	6
3.5	TEST MODE	6
3.6	TEST ENVIRONMENT	6
3.7	TECHNICAL SPECIFICATION	7
3.8	TEST FREQUENCIES	9
3.8.1	Reference test frequencies for NR operating band n7	9
3.8.2	Reference test frequencies for NR operating band n38	9
3.8.3	Reference test frequencies for NR operating band n41	10
3.8.4	Reference test frequencies for NR operating band n66	11
3.8.5	Reference test frequencies for NR operating band n77	12
3.8.1	Reference test frequencies for NR operating band n78	13
4	DESCRIPTION OF TESTS	14
4.1	FIELD STRENGTH OF SPURIOUS RADIATION	14
4.2	TEST SETUPS	16
4.2.1	Test Setup 1	16
4.3	TEST CONDITIONS	16
5	MAIN TEST INSTRUMENTS	17
6	MEASUREMENT UNCERTAINTY	18
7	APPENDIXES	18



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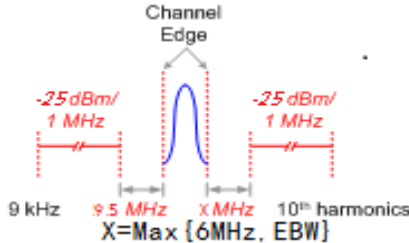
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2 Test Summary

2.1 NR Band N7/N38/N41

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Field Strength of Spurious Radiation	§2.1053, §27.53(m)		Section 1 of Appendix B	Pass

2.2 NR Band N66(ENDC DC_7A_N66A)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 1 of Appendix B	Pass

2.3 NR Band N77/N78

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Field Strength of Spurious Radiation	§2.1053, §27.53(l)	not exceed -13 dBm/MHz	Section 1 of Appendix B	Pass

Note: The differences between M2103K19G (K19) and M2103K19PG (K19P) are as below:

Model name	Brand Name	rear cover
M2103K19G	Redmi	The material is the same, drawing is different, laser engraving is different
M2103K19PG	POCO	

Except listings above, the others are all the same as previous version.

Based on the above differences, the main test only performs M2103K19G

Remark:

Because the product is a multi-TX antenna, the antenna with the max conducted power is selected for conducted testing, EIRP and RSE require all antennas to be tested, Show only the worst antenna in the report



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3 General Information

3.1 Client Information

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3.2 Test Location

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086

3.3 Test Facility

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

A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Designation Number: CN1271.



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3.4 General Description of EUT

EUT Description::	Mobile Phone
Model No.:	M2103K19G / M2103K19PG
Trade Mark:	Redmi / POCO
Hardware Version:	P2
Software Version:	MIUI 12
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	PIFA Antenna
Antenna Gain:	N7: 3.09dBi (Ant1); -2.2dBi (Ant2); -1.7dBi (Ant4) N38: 3.05dBi (Ant1); -2.2dBi (Ant2); -2dBi (Ant4) N41: 3.14dBi (Ant1); -2.3dBi (Ant2); -1.6dBi (Ant4) N66: -1.5dBi (Ant1); -2.4dBi (Ant4) N77: -1.57dBi (Ant2) N78: -1.95dBi (Ant2)

3.5 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.

3.6 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	49%	
Atmospheric Pressure:	102.46 KPa	
Temperature	NT	25 °C
Voltage:	LV	3.6V
	NV	3.87V
	HV	4.45V

Remark: LV= lower extreme test voltage; NV= nominal voltage
HV= upper extreme test voltage; NT= normal temperature



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3.7 Technical Specification

Characteristics	Description		
Radio System Type	☒ SA ☒ NSA		
Supported Frequency Range	Band	TX	RX
	NR Band N7	2500 to 2570 MHz	2620 to 2690 MHz
	NR Band N38	2570 to 2620 MHz	2570 to 2620 MHz
	NR Band N41	2496 to 2690 MHz	2496 to 2690 MHz
	NR Band N66	1710 to 1780 MHz	2110 to 2180 MHz
	NR Band N77	3700 to 3980 MHz	3700 to 3980 MHz
	NR Band N78	3700 to 3800 MHz	3700 to 3800 MHz
Supported Channel Bandwidth	NR Band N7	SCK 15k: ☒ 5 MHz; ☒ 10 MHz; ☒ 15 MHz; ☒ 20 MHz	
	NR Band N38	SCK 30k: ☒ 20 MHz	
	NR Band N41	SCK 30k: ☒ 10 MHz; ☒ 15 MHz; ☒ 20 MHz; ☒ 40 MHz; ☒ 50 MHz; ☒ 60 MHz; ☒ 80 MHz; ☒ 90 MHz; ☒ 100 MHz	
	NR Band N66	SCK 15k: ☒ 5 MHz; ☒ 10 MHz; ☒ 15 MHz; ☒ 20 MHz	
	NR Band N77	SCK 30k: ☒ 10 MHz; ☒ 15 MHz; ☒ 20 MHz; ☒ 40 MHz; ☒ 50 MHz; ☒ 60 MHz; ☒ 80 MHz; ☒ 90 MHz; ☒ 100 MHz	
	NR Band N78	SCK 30k: ☒ 10 MHz; ☒ 15 MHz; ☒ 20 MHz; ☒ 40 MHz; ☒ 50 MHz; ☒ 60 MHz; ☒ 80 MHz; ☒ 90 MHz; ☒ 100 MHz	
Designation of Emissions (Remark: the necessary bandwidth of which is the worst value from the measured occupied bandwidths for each type of channel bandwidth configuration.)	NR Band N7	SCK 15k: 4M47G7D;4M47W7D; 9M27G7D;9M30W7D; 14M1G7D;14M1W7D 18M9G7D;18M9W7D	
	NR Band N38	SCK 30k: 18M2G7D;18M3W7D	
	NR Band N41	SCK 30k: 8M58G7D;8M60W7D; 13M6G7D;13M6W7D 18M2G7D;18M3W7D 37M8G7D;37M8W7D 47M5G7D;47M5W7D 57M8G7D;57M9W7D 77M5G7D;77M7W7D 87M4G7D;87M5W7D 97M4G7D;97M3W7D	
	NR Band N66	SCK 15k:	



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		4M51G7D;4M47W7D; 9M27G7D;9M29W7D; 14M1G7D;14M1W7D 18M9G7D;18M9W7D
	NR Band N77	SCK 30k: 8M57G7D;8M58W7D; 12M8G7D;12M9W7D 18M2G7D;18M2W7D 35M8G7D;35M7W7D 47M5G7D;47M6W7D 57M9G7D;57M9W7D 77M6G7D;77M6W7D 87M4G7D;87M5W7D 97M3G7D;97M4W7D
	NR Band N78	SCK 30k: 8M58G7D;8M58W7D; 13M6G7D;13M6W7D 18M3G7D;18M3W7D 37M8G7D;37M9W7D 47M4G7D;47M5W7D 57M9G7D;57M9W7D 77M5G7D;77M7W7D 87M6G7D;87M7W7D 97M2G7D;97M3W7D



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3.8 Test Frequencies

3.8.1 Reference test frequencies for NR operating band n7

3.8.1.1 Test frequencies for NR operating band n7 and SCS 15 kHz

Band width [MHz]	carrier Bandwidth [PRBs]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	point A [MHz]	absoluteFrequencyPointA [ARFCN]	offsetTo Carrier [PRBs]	SS block SCS [kHz]	GSCN	absoluteFrequencySSB [ARFCN]
5	25	Downlink	Low	2622.5	524500	2620.25	524050	0	15	6554	524410
			Mid	2655	531000	2634.39	526878	102		6636	530910
			High	2687.5	537500	2594.53	518906	504		6718	537410
		Uplink	Low	2502.5	500500	2500.25	500050	0	-	-	-
			Mid	2535	507000	2442.03	488406	504		-	-
			High	2567.5	513500	2564.17	512834	6		-	-
10	52	Downlink	Low	2625	525000	2620.32	524064	0	15	6555	524430
			Mid	2655	531000	2631.96	526392	102		6630	530430
			High	2685	537000	2589.6	517920	504		6705	536430
		Uplink	Low	2505	501000	2500.32	500064	0	-	-	-
			Mid	2535	507000	2439.6	487920	504		-	-
			High	2565	513000	2559.24	511848	6		-	-
15	79	Downlink	Low	2627.5	525500	2620.39	524078	0	15	6556	524450
			Mid	2655	531000	2629.53	525906	102		6624	529950
			High	2682.5	536500	2584.67	516934	504		6692	535450
		Uplink	Low	2507.5	501500	2500.39	500078	0	-	-	-
			Mid	2535	507000	2437.17	487434	504		-	-
			High	2562.5	512500	2554.31	510862	6		-	-
20	106	Downlink	Low	2630	526000	2620.46	524092	0	15	6557	524650
			Mid	2655	531000	2627.1	525420	102		6618	529470
			High	2680	536000	2579.74	515948	504		6682	534530
		Uplink	Low	2510	502000	2500.46	500092	0	-	-	-
			Mid	2535	507000	2434.74	486948	504		-	-
			High	2560	512000	2549.38	509876	6		-	-

3.8.2 Reference test frequencies for NR operating band n38

3.8.2.1 Test frequencies for NR operating band n38 and SCS 30 kHz

Band width [MHz]	carrier Bandwidth [PRBs]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	point A [MHz]	absoluteFrequency PointA [ARFCN]	offsetTo Carrier [PRBs]	SS block SCS [kHz]	GSCN	absoluteFrequencySSB [ARFCN]
20	51	Downlink & Uplink	Low	2580	516000	2570.82	514164	0	30	6438	515070
			Mid	2595	519000	2549.1	509820	102		6474	517950
			High	2610	522000	2419.38	483876	504		6513	521070



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3.8.3 Reference test frequencies for NR operating band n41

3.8.3.1 Test frequencies for NR operating band n41 and SCS 30 kHz

Band width [MHz]	carrier Bandwidth [PRBs]	Range	Carrier centre [MHz]	Carrier centre [ARFCN]	point A [MHz]	absolute Frequency Point A [ARFCN]	offset To Carrier [PRBs]	SS block SCS [kHz]	GSCN	absolute Frequency SSB [ARFCN]
10	24	Downlink & Uplink	Low	2501.01	500202	2496.69	499338	0	6252	500190
			Mid	2592.99	518598	2551.95	510390	102	6483	518670
			High	2685	537000	2499.24	499848	504	6711	536910
15	38	Downlink & Uplink	Low	2503.5	500700	2496.66	499332	0	6252	500190
			Mid	2592.99	518598	2549.43	509886	102	6474	517950
			High	2682.48	536496	2494.2	498840	504	6699	535950
20	51	Downlink & Uplink	Low	2506.02	501204	2496.84	499368	0	6252	500190
			Mid	2592.99	518598	2547.09	509418	102	6471	517710
			High	2670	534000	2469.48	493896	504	6636	530910
40	106	Downlink & Uplink	Low	2516.01	503202	2496.93	499386	0	6252	500190
			Mid	2592.99	518598	2537.19	507438	102	6444	515550
			High	2670	534000	2469.48	493896	504	6636	530910
50	133	Downlink & Uplink	Low	2521.02	504204	2497.08	499416	0	6252	500190
			Mid	2592.99	518598	2532.33	506466	102	6432	514590
			High	2664.99	532998	2459.61	491922	504	6612	528990
60	162	Downlink & Uplink	Low	2526	505200	2496.84	499368	0	6252	500190
			Mid	2592.99	518598	2527.11	505422	102	6420	513630
			High	2659.98	531996	2449.38	489876	504	6588	527070
80	217	Downlink & Uplink	Low	2536.02	507204	2496.96	499392	0	6252	500190
			Mid	2592.99	518598	2517.21	503442	102	6396	511710
			High	2649.99	529998	2429.49	485898	504	6537	522990
90	245	Downlink & Uplink	Low	2541	508200	2496.9	499380	0	6252	500190
			Mid	2592.99	518598	2512.17	502434	102	6381	510510
			High	2644.98	528996	2419.44	483888	504	6513	521070
100	273	Downlink & Uplink	Low	2546.01	509202	2496.87	499374	0	6252	500190
			Mid	2592.99	518598	2507.13	501426	102	6369	509550
			High	2640	528000	2409.42	481884	504	6486	518910



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3.8.4 Reference test frequencies for NR operating band n66

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

Band width [MHz]	carrier Bandwidth [PRBs]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	point A [MHz]	absoluteFrequency PointA [ARFCN]	offsetTo Carrier [PRBs]	SS block SCS [kHz]	GSCN	absoluteFrequencySSB [ARFCN]
5	25	Downlink	Low	2112.5	422500	2110.25	422050	0	15	5279	422410
			Mid	2145	429000	2124.39	424878	102		5361	428910
			High	2177.5	435500	2084.53	416906	504		5443	435410
		Uplink	Low	1712.5	342500	1710.25	342050	0	-	-	-
			Mid	1745	349000	1652.03	330406	504		-	-
			High	1777.5	355500	1774.17	354834	6		-	-
10	52	Downlink	Low	2115	423000	2110.32	422064	0	15	5280	422430
			Mid	2145	429000	2121.96	424392	102		5355	428430
			High	2175	435000	2079.6	415920	504		5430	434430
		Uplink	Low	1715	343000	1710.32	342064	0	-	-	-
			Mid	1745	349000	1649.6	329920	504		-	-
			High	1775	355000	1769.24	353848	6		-	-
15	79	Downlink	Low	2117.5	423500	2110.39	422078	0	15	5281	422450
			Mid	2145	429000	2119.53	423906	102		5349	427950
			High	2172.5	434500	2074.67	414934	504		5417	433450
		Uplink	Low	1717.5	343500	1710.39	342078	0	-	-	-
			Mid	1745	349000	1647.17	329434	504		-	-
			High	1772.5	354500	1764.31	352862	6		-	-
20	106	Downlink	Low	2120	424000	2110.46	422092	0	15	5282	422650
			Mid	2145	429000	2117.1	423420	102		5343	427470
			High	2170	434000	2069.74	413948	504		5407	432530
		Uplink	Low	1720	344000	1710.46	342092	0	-	-	-
			Mid	1745	349000	1644.74	328948	504		-	-
			High	1770	354000	1759.38	351876	6		-	-



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3.8.5 Reference test frequencies for NR operating band n77

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

Band width [MHz]	carrier Bandwidth [PRBs]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	point A [MHz]	absoluteF reQUENCY PointA [ARFCN]	offsetTo Carrier [Carrier PRBs]	SS block SCS [kHz]	GSCN	absoluteF reQUENCYSSB [ARFCN]
10	24	Downlink & Uplink	Low	3705	647000	\	\	0	30	\	\
			Mid	3840	656000	\	\	102		\	\
			High	3975	665000	\	\	504		\	\
15	38	Downlink & Uplink	Low	3707.52	647168	\	\	0	30	\	\
			Mid	3840	656000	\	\	102		\	\
			High	3972.48	664832	\	\	504		\	\
20	51	Downlink & Uplink	Low	3710.01	647334	\	\	0	30	\	\
			Mid	3840	656000	\	\	102		\	\
			High	3969.99	664666	\	\	504		\	\
40	106	Downlink & Uplink	Low	3720	648000	\	\	0	30	\	\
			Mid	3840	656000	\	\	102		\	\
			High	3960	664000	\	\	504		\	\
50	133	Downlink & Uplink	Low	3725.01	648334	\	\	0	30	\	\
			Mid	3840	656000	\	\	102		\	\
			High	3954.99	663666	\	\	504		\	\
60	162	Downlink & Uplink	Low	3730.02	648668	\	\	0	30	\	\
			Mid	3840	656000	\	\	102		\	\
			High	3949.98	663332	\	\	504		\	\
80	217	Downlink & Uplink	Low	3740.01	649334	\	\	0	30	\	\
			Mid	3840	656000	\	\	102		\	\
			High	3939.99	662666	\	\	504		\	\
90	245	Downlink & Uplink	Low	3745.02	649668	\	\	0	30	\	\
			Mid	3840	656000	\	\	102		\	\
			High	3934.98	662332	\	\	504		\	\
100	273	Downlink & Uplink	Low	3750	650000	\	\	0	30	\	\
			Mid	3840	656000	\	\	102		\	\
			High	3930	662000	\	\	504		\	\



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3.8.1 Reference test frequencies for NR operating band n78

3.8.1.1 Test frequencies for NR operating band n78 and SCS 30 kHz

Band width [MHz]	carrier Bandwidth [PRBs]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	point A [MHz]	absoluteF reQUENCY PointA [ARFCN]	offsetTo Carrier [Carrier PRBs]	SS block SCS [kHz]	GSCN	absoluteF reQUENCYSSB [ARFCN]
10	24	Downlink & Uplink	Low	3705	647000	\	\	0	30	\	\
			Mid	3750	650000	\	\	102		\	\
			High	3795	653000	\	\	504		\	\
15	38	Downlink & Uplink	Low	3707.52	647168	\	\	0	30	\	\
			Mid	3750	650000	\	\	102		\	\
			High	3792.48	652832	\	\	504		\	\
20	51	Downlink & Uplink	Low	3710.01	647334	\	\	0	30	\	\
			Mid	3750	650000	\	\	102		\	\
			High	3789.99	652666	\	\	504		\	\
40	106	Downlink & Uplink	Low	3720	648000	\	\	0	30	\	\
			Mid	3750	650000	\	\	102		\	\
			High	3780	652000	\	\	504		\	\
50	133	Downlink & Uplink	Low	3725.01	648334	\	\	0	30	\	\
			Mid	3750	650000	\	\	102		\	\
			High	3774.99	651666	\	\	504		\	\
60	162	Downlink & Uplink	Low	3730.02	648668	\	\	0	30	\	\
			Mid	3750	650000	\	\	102		\	\
			High	3769.98	651332	\	\	504		\	\
80	217	Downlink & Uplink	Low	3740.01	649334	\	\	0	30	\	\
			Mid	3750	650000	\	\	102		\	\
			High	3759.99	650666	\	\	504		\	\
90	245	Downlink & Uplink	Low	3745.02	649668	\	\	0	30	\	\
			Mid	3750	650000	\	\	102		\	\
			High	3754.98	650332	\	\	504		\	\
100	273	Downlink & Uplink	Low	\	\	\	\	\	30	\	\
			Mid	3750	650000	\	\	102		\	\
			High	\	\	\	\	\		\	\



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4 Description of Tests

4.1 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01

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). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
- 6). The output power into the substitution antenna was then measured.
- 7). Steps 5) and 6) were repeated with both antennas polarized.
- 8) Calculate power in dBm by the following formula:

$$\text{ERP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

Where:

Pd is the dipole equivalent power, Pg is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to Pg [dBm] – cable loss [dB]. The calculated Pd levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of 43 + 10log10(Power [Watts]).

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:

$$\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$

$$\text{EIRP} = \text{ERP} + 2.15\text{dB}$$

Where:

Pg is the generator output power into the substitution antenna.

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.



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Remark: Reference test setup 1

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above 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) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

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



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4.2 Test Setups

4.2.1 Test Setup 1

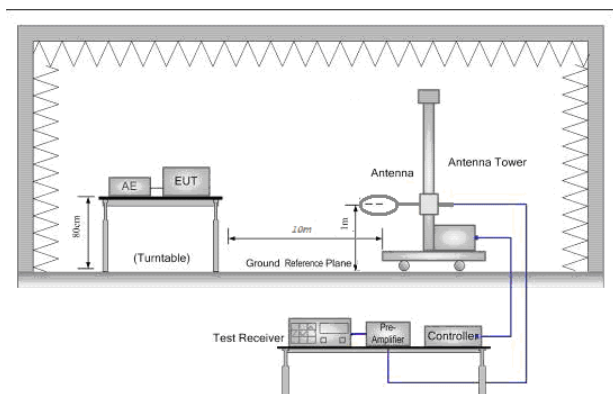


Figure 1. Below 30MHz

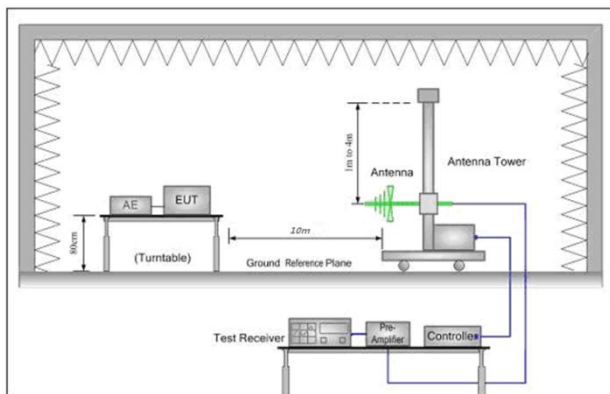


Figure 2. 30MHz to 1GHz

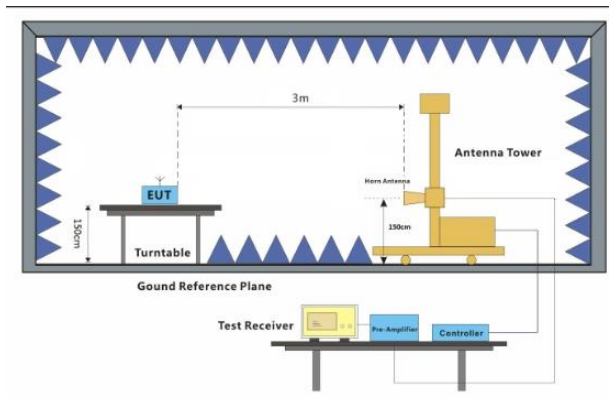


Figure 3. above 1GHz

4.3 Test Conditions

Test Case	Test Conditions	
Field Strength of Spurious Radiation	Test Environment	Ambient Climate & Rated Voltage
	Test Setup	Test Setup 1
	Test Mode	NR/TM1 Remark: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.
	RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)



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5 Main Test Instruments

RSE&RE&CE Test System					
Equipment	Manufacturer	Model No.	Cal Date	Cal Due Date	Inventory No.
Semi-Anechoic Chamber	Brilliant-emc	966	NCR	NCR	XAW03-35-01
MXA signal analyzer	Keysight	N9020A	2020-04-02	2021-04-02	XAW01-06-01
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	2020-04-02	2021-04-02	XAW01-03-02
Test receiver	ROHDE&SCHWARZ	ESR	2020-09-11	2021-09-10	XAW01-08-01
Receiving antenna	Rosenberger	VULB 9163	2019-10-13	2021-10-12	XAW01-09-01
Receiving antenna	Rosenberger	BBHA 9120D	2019-10-13	2021-10-12	XAW01-09-02
Receiving antenna	Rosenberger	BBHA 9170	2019-10-13	2021-10-12	XAW01-09-03
Directional antenna rack controller	Max-Full	MF-7802BS	NCR	NCR	XAW03-03-01
High-speed antenna rack controller	Max-Full	MF-7802	NCR	NCR	XAW03-04-01
Filter bank	Tonscend	JS0806-F	NCR	NCR	XAW03-05-01
Filter bank	Tonscend	JS0806s	NCR	NCR	XAW03-05-02
Amplifier	Tonscend	TAP00903040	2020-10-26	2021-10-25	XAW01-41-01
Amplifier	Tonscend	TAP01018048	2020-10-26	2021-10-25	XAW01-41-02
Amplifier	Tonscend	TAP18040048	2020-10-26	2021-10-25	XAW01-41-03
Amplifier	Shanghai Steed	YX28980930	2020-10-26	2021-10-25	XAW01-41-06
Artificial network	ROHDE&SCHWARZ	ENV216	2020-08-04	2021-08-03	XAW01-19-02
Temperature and humidity meter	MingGao	TH101B	2020-06-11	2021-05-11	XAW01-01-01
Measurement Software	Tonscend	TS+ RSE&RE	NCR	NCR	XAW02-05-01
Measurement Software	Tonscend	TS+ CE	NCR	NCR	XAW02-05-02



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6 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:

Test Item	Extended Uncertainty	Data
Field Strength of Spurious Radiation	ERP[dBm]/EIRP [dBm]	$\pm 4.8\text{dB}$ (30MHz-1GHz) $\pm 5.2\text{dB}$ (1GHz-6GHz) $\pm 5.5\text{dB}$ (6GHz-18GHz) $\pm 5.02\text{dB}$ (18GHz-40GHz)

7 Appendixes

Appendix A	Setup Photos
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1. Field Strength of Spurious Radiation

1.1. Test Band = SA_Band=7_TM1

1.1.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.7000	-66.44	-77.98	-13.00	64.98	Horizontal
2	177.1975	-56.58	-76.02	-13.00	63.02	Horizontal
3	614.1825	-73.93	-81.91	-13.00	68.91	Horizontal
4	1748.4374	-67.49	-50.59	-13.00	37.59	Horizontal
5	7112.4556	-58.72	-53.40	-13.00	40.40	Horizontal



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1.2. Test Band = SA_Band=7_TM1

1.2.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.9125	-55.80	-74.14	-13.00	61.14	Vertical
2	73.6500	-53.65	-68.16	-13.00	55.16	Vertical
3	559.1350	-73.11	-82.77	-13.00	69.77	Vertical
4	1608.5304	-68.31	-54.69	-13.00	41.69	Vertical
5	5709.8855	-56.56	-53.21	-13.00	40.21	Vertical
6	10927.896	-60.26	-49.03	-13.00	36.03	Vertical



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1.3. Test Band = SA_Band=7_TM1

1.3.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.4275	-65.39	-76.91	-13.00	63.91	Horizontal
2	87.4725	-57.18	-79.29	-13.00	66.29	Horizontal
3	162.8900	-63.57	-77.18	-13.00	64.18	Horizontal
4	1764.7382	-67.55	-50.58	-13.00	37.58	Horizontal
5	5733.1367	-56.93	-53.27	-13.00	40.27	Horizontal
6	13607.780	-60.82	-47.46	-13.00	34.46	Horizontal



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1.4. Test Band = SA_Band=7_TM1

1.4.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.9125	-55.54	-73.88	-13.00	60.88	Vertical
2	73.1650	-54.54	-68.96	-13.00	55.96	Vertical
3	499.9650	-73.50	-83.39	-13.00	70.39	Vertical
4	1449.4225	-69.21	-54.97	-13.00	41.97	Vertical
5	6321.9161	-57.71	-53.92	-13.00	40.92	Vertical
6	10290.364	-62.32	-49.13	-13.00	36.13	Vertical



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1.5. Test Band = SA_Band=7_TM1

1.5.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.3975	-65.92	-77.54	-13.00	64.54	Horizontal
2	93.5350	-57.75	-79.53	-13.00	66.53	Horizontal
3	160.2225	-63.79	-72.91	-13.00	59.91	Horizontal
4	1233.7117	-68.43	-57.07	-13.00	44.07	Horizontal
5	6756.9378	-59.56	-54.00	-13.00	41.00	Horizontal
6	11416.1708	-59.70	-49.33	-13.00	36.33	Horizontal



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1.6. Test Band = SA_Band=7_TM1

1.6.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.9425	-55.88	-74.96	-13.00	61.96	Vertical
2	81.1675	-55.07	-70.29	-13.00	57.29	Vertical
3	168.9525	-59.81	-76.36	-13.00	63.36	Vertical
4	1347.4174	-68.89	-55.59	-13.00	42.59	Vertical
5	5100.8550	-50.22	-49.15	-13.00	36.15	Vertical
6	10201.860	-61.59	-48.85	-13.00	35.85	Vertical



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1.7. Test Band = SA_Band=38_TM1

1.7.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.1550	-65.66	-77.26	-25.00	52.26	Horizontal
2	87.9575	-55.11	-77.22	-25.00	52.22	Horizontal
3	165.3150	-60.83	-78.12	-25.00	53.12	Horizontal
4	1746.2373	-67.30	-50.52	-25.00	25.52	Horizontal
5	6760.6880	-61.39	-55.85	-25.00	30.85	Horizontal
6	12895.244	-62.11	-50.12	-25.00	25.12	Horizontal



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1.8. Test Band = SA_Band=38_TM1

1.8.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.4275	-54.29	-73.00	-25.00	48.00	Vertical
2	76.0750	-56.56	-71.49	-25.00	46.49	Vertical
3	185.2000	-58.42	-76.59	-25.00	51.59	Vertical
4	1647.8324	-68.92	-54.94	-25.00	29.94	Vertical
5	6561.9281	-61.50	-56.46	-25.00	31.46	Vertical
6	12928.246	-62.56	-52.40	-25.00	27.40	Vertical



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1.9. Test Band = SA_Band=38_TM1

1.9.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.1550	-65.64	-77.24	-25.00	52.24	Horizontal
2	87.9575	-57.89	-80.00	-25.00	55.00	Horizontal
3	163.3750	-62.47	-76.90	-25.00	51.90	Horizontal
4	1758.4379	-68.13	-51.15	-25.00	26.15	Horizontal
5	7935.9968	-61.67	-54.99	-25.00	29.99	Horizontal
6	13442.772	-62.26	-49.48	-25.00	24.48	Horizontal



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1.10. Test Band = SA_Band=38_TM1

1.10.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.4275	-57.17	-75.88	-25.00	50.88	Vertical
2	71.4675	-55.35	-69.46	-25.00	44.46	Vertical
3	516.2125	-73.26	-83.03	-25.00	58.03	Vertical
4	1746.1373	-66.10	-52.75	-25.00	27.75	Vertical
5	9572.5786	-62.48	-51.59	-25.00	26.59	Vertical



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1.11. Test Band = SA_Band=38_TM1

1.11.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.1550	-66.22	-77.82	-25.00	52.82	Horizontal
2	86.9875	-57.33	-79.43	-25.00	54.43	Horizontal
3	174.5300	-57.09	-76.45	-25.00	51.45	Horizontal
4	1744.2372	-67.95	-51.28	-25.00	26.28	Horizontal
5	5674.6337	-59.54	-55.89	-25.00	30.89	Horizontal
6	13475.773	-62.59	-49.46	-25.00	24.46	Horizontal



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1.12. Test Band = SA_Band=38_TM1

1.12.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.1550	-55.44	-73.59	-25.00	48.59	Vertical
2	74.8625	-55.12	-69.84	-25.00	44.84	Vertical
3	175.2575	-59.20	-77.31	-25.00	52.31	Vertical
4	1745.5373	-62.89	-49.54	-25.00	24.54	Vertical
5	6786.9393	-61.72	-54.40	-25.00	29.40	Vertical
6	10111.8556	-64.27	-51.16	-25.00	26.16	Vertical



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1.13. Test Band = SA_Band=41_TM1

1.13.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.1850	-65.56	-77.05	-40.00	37.05	Horizontal
2	88.4425	-56.06	-78.18	-40.00	38.18	Horizontal
3	190.2925	-59.04	-75.69	-40.00	35.69	Horizontal
4	1474.2237	-74.96	-61.81	-40.00	21.81	Horizontal
5	5183.3592	-57.18	-55.49	-40.00	15.49	Horizontal
6	11341.1671	-60.57	-50.06	-40.00	10.06	Horizontal



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1.14. Test Band = SA_Band=41_TM1

1.14.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.2150	-55.28	-74.78	-40.00	34.78	Vertical
2	75.5900	-54.28	-69.13	-40.00	29.13	Vertical
3	175.0150	-59.36	-77.44	-40.00	37.44	Vertical
4	1459.8230	-74.88	-60.79	-40.00	20.79	Vertical
5	5700.1350	-56.92	-53.59	-40.00	13.59	Vertical
6	9752.5876	-59.35	-48.83	-40.00	8.83	Vertical



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1.15. Test Band = SA_Band=41_TM1

1.15.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.3375	-66.10	-77.93	-40.00	37.93	Horizontal
2	88.2000	-55.30	-77.42	-40.00	37.42	Horizontal
3	162.4050	-63.92	-76.72	-40.00	36.72	Horizontal
4	1489.4245	-74.70	-61.69	-40.00	21.69	Horizontal
5	5705.3853	-57.06	-53.50	-40.00	13.50	Horizontal
6	11197.1599	-60.18	-49.57	-40.00	9.57	Horizontal



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1.16. Test Band = SA_Band=41_TM1

1.16.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.1550	-56.94	-75.09	-40.00	35.09	Vertical
2	75.3475	-54.90	-69.71	-40.00	29.71	Vertical
3	440.5525	-74.35	-86.62	-40.00	46.62	Vertical
4	1657.7329	-75.38	-61.42	-40.00	21.42	Vertical
5	6311.4156	-57.77	-53.97	-40.00	13.97	Vertical
6	9774.3387	-60.01	-49.24	-40.00	9.24	Vertical



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1.17. Test Band = SA_Band=41_TM1

1.17.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.1550	-65.53	-77.13	-40.00	37.13	Horizontal
2	87.9575	-55.95	-78.06	-40.00	38.06	Horizontal
3	163.1325	-62.88	-76.90	-40.00	36.90	Horizontal
4	1739.1370	-76.37	-59.98	-40.00	19.98	Horizontal
5	7098.2049	-58.71	-53.56	-40.00	13.56	Horizontal
6	13080.504	-62.40	-50.79	-40.00	10.79	Horizontal



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1.18. Test Band = SA_Band=41_TM1

1.18.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.6700	-56.23	-74.76	-40.00	34.76	Vertical
2	70.9825	-55.97	-70.00	-40.00	30.00	Vertical
3	459.9525	-74.99	-86.37	-40.00	46.37	Vertical
4	1757.6379	-73.88	-60.39	-40.00	20.39	Vertical
5	6864.9432	-59.53	-52.39	-40.00	12.39	Vertical
6	10969.898	-61.11	-50.00	-40.00	10.00	Vertical



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1.19. Test Band = SA_Band=66_TM1

1.19.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	47.7025	-72.71	-68.11	-13.00	55.11	Horizontal
2	155.1300	-74.18	-67.55	-13.00	54.55	Horizontal
3	205.0850	-74.03	-60.60	-13.00	47.60	Horizontal
4	1305.5000	-68.15	-51.17	-13.00	38.17	Horizontal
5	5886.8943	-59.70	-55.39	-13.00	42.39	Horizontal
6	15037.351	-62.59	-47.50	-13.00	34.50	Horizontal



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1.20. Test Band = SA_Band=66_TM1

1.20.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.7000	-65.86	-69.35	-13.00	56.35	Vertical
2	99.1125	-74.22	-57.13	-13.00	44.13	Vertical
3	204.3575	-73.23	-63.52	-13.00	50.52	Vertical
4	1378.5000	-68.27	-50.84	-13.00	37.84	Vertical
5	6755.4378	-60.99	-53.78	-13.00	40.78	Vertical
6	15606.630	-64.30	-45.79	-13.00	32.79	Vertical



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1.21. Test Band = SA_Band=66_TM1

1.21.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.9425	-72.56	-67.31	-13.00	54.31	Horizontal
2	210.4200	-73.03	-64.14	-13.00	51.14	Horizontal
3	894.0275	-73.69	-61.59	-13.00	48.59	Horizontal
4	1386.5000	-68.25	-51.11	-13.00	38.11	Horizontal
5	7812.2406	-61.94	-54.69	-13.00	41.69	Horizontal
6	15734.886	-63.90	-46.59	-13.00	33.59	Horizontal



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1.22. Test Band =SA_Band=66_TM1

1.22.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	38.9725	-67.03	-70.94	-13.00	57.94	Vertical
2	100.3250	-73.56	-55.46	-13.00	42.46	Vertical
3	155.1300	-73.49	-60.92	-13.00	47.92	Vertical
4	1507.0000	-68.34	-49.13	-13.00	36.13	Vertical
5	6791.4396	-61.11	-53.77	-13.00	40.77	Vertical
6	12695.734	-61.73	-51.21	-13.00	38.21	Vertical



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1.23. Test Band = SA_Band=66_TM1

1.23.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	52.5525	-72.59	-68.91	-13.00	55.91	Horizontal
2	157.0700	-73.24	-66.59	-13.00	53.59	Horizontal
3	205.0850	-73.99	-60.56	-13.00	47.56	Horizontal
4	1581.5000	-68.28	-48.18	-13.00	35.18	Horizontal
5	6775.6888	-61.07	-55.58	-13.00	42.58	Horizontal
6	16604.180	-63.67	-41.54	-13.00	28.54	Horizontal



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1.24. Test Band = SA_Band=66_TM1

1.24.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	56.9175	-73.17	-67.80	-13.00	54.80	Vertical
2	100.3250	-72.97	-54.87	-13.00	41.87	Vertical
3	581.9300	-73.39	-65.44	-13.00	52.44	Vertical
4	1587.0000	-68.38	-47.76	-13.00	34.76	Vertical
5	6776.4388	-61.18	-53.89	-13.00	40.89	Vertical
6	10967.648	-62.61	-51.50	-13.00	38.50	Vertical



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1.25. Test Band = SA_Band=77_TM1

1.25.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.2711	-71.83	-64.95	-25.00	39.95	Horizontal
2	358.0704	-72.04	-69.44	-25.00	44.44	Horizontal
3	898.0479	-73.44	-61.57	-25.00	36.57	Horizontal
4	2701.5403	-69.72	-36.84	-25.00	11.84	Horizontal
5	6999.1999	-71.90	-39.93	-25.00	14.93	Horizontal
6	16393.159	-58.44	-44.49	-25.00	19.49	Horizontal



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1.26. Test Band = SA_Band=77_TM1

1.26.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	35.8203	-63.59	-72.26	-36.00	36.26	Vertical
2	109.5925	-69.76	-63.44	-36.00	27.44	Vertical
3	909.4945	-71.45	-60.01	-36.00	24.01	Vertical
4	2698.3397	-68.45	-36.81	-30.00	6.81	Vertical
5	7000.0000	-71.05	-39.52	-30.00	9.52	Vertical
6	16907.993	-58.50	-45.93	-30.00	15.93	Vertical



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1.27. Test Band = SA_Band=77_TM1

1.27.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.9872	-71.74	-64.72	-25.00	39.72	Horizontal
2	233.2252	-70.96	-68.14	-25.00	43.14	Horizontal
3	789.2085	-72.48	-62.60	-25.00	37.60	Horizontal
4	2694.3389	-69.70	-36.93	-25.00	11.93	Horizontal
5	6983.1983	-71.94	-40.30	-25.00	15.30	Horizontal
6	16410.027	-58.70	-44.83	-25.00	19.83	Horizontal



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1.28. Test Band = SA_Band=77_TM1

1.28.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	79.1815	-65.92	-64.02	-25.00	39.02	Vertical
2	118.1774	-69.23	-63.54	-25.00	38.54	Vertical
3	742.4036	-71.37	-61.93	-25.00	36.93	Vertical
4	2142.2284	-66.91	-38.39	-25.00	13.39	Vertical
5	6982.7983	-70.83	-39.54	-25.00	14.54	Vertical
6	17964.797	-57.08	-45.77	-25.00	20.77	Vertical



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1.29. Test Band = SA_Band=77_TM1

1.29.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.1256	-71.38	-64.51	-25.00	39.51	Horizontal
2	456.6758	-70.88	-67.27	-25.00	42.27	Horizontal
3	678.8654	-71.51	-63.38	-25.00	38.38	Horizontal
4	2140.6281	-68.27	-39.88	-25.00	14.88	Horizontal
5	6968.3968	-71.67	-40.35	-25.00	15.35	Horizontal
6	16366.024	-59.11	-45.67	-25.00	20.67	Horizontal



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1.30. Test Band = SA_Band=77_TM1
Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	77.6779	-66.75	-65.27	-25.00	40.27	Vertical
2	118.1774	-69.23	-63.54	-25.00	38.54	Vertical
3	600.5825	-71.05	-63.41	-25.00	38.41	Vertical
4	2675.9352	-68.54	-37.33	-25.00	12.33	Vertical
5	6973.1973	-70.84	-39.68	-25.00	14.68	Vertical
6	16885.992	-58.66	-46.22	-25.00	21.22	Vertical

1.



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1.31. Test Band = SA_Band=78_TM1

1.31.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	38.2939	-70.21	-64.02	-13.00	51.02	Horizontal
2	247.5819	-71.57	-68.95	-13.00	55.95	Horizontal
3	755.9358	-72.65	-62.70	-13.00	49.70	Horizontal
4	2697.1394	-69.65	-36.80	-13.00	23.80	Horizontal
5	6997.5998	-71.98	-40.04	-13.00	27.04	Horizontal
6	16397.559	-58.57	-44.54	0.00	44.54	Horizontal



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1.32. Test Band = SA_Band=78_TM1
Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	80.0545	-67.09	-65.00	-13.00	52.00	Vertical
2	246.9999	-70.93	-71.17	-13.00	58.17	Vertical
3	682.5516	-71.42	-63.44	-13.00	50.44	Vertical
4	2700.7401	-69.13	-37.47	-13.00	24.47	Vertical
5	6992.3992	-71.22	-39.79	-13.00	26.79	Vertical
6	16902.860	-59.09	-46.44	0.00	46.44	Vertical



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1.33. Test Band = SA_Band=78_TM1

1.33.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.7262	-70.97	-64.02	-13.00	51.02	Horizontal
2	234.0982	-72.51	-69.70	-13.00	56.70	Horizontal
3	717.6189	-71.93	-63.03	-13.00	50.03	Horizontal
4	2693.1386	-69.86	-37.13	-13.00	24.13	Horizontal
5	6987.1987	-72.06	-40.34	-13.00	27.34	Horizontal
6	16381.425	-58.82	-45.09	0.00	45.09	Horizontal



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1.34. Test Band = SA_Band=78_TM1

1.34.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	78.3084	-66.77	-65.12	-13.00	52.12	Vertical
2	303.6507	-70.41	-68.77	-13.00	55.77	Vertical
3	822.5296	-72.11	-61.94	-13.00	48.94	Vertical
4	2698.7397	-69.17	-37.52	-13.00	24.52	Vertical
5	6979.1979	-71.07	-39.83	-13.00	26.83	Vertical
6	16888.192	-59.30	-46.82	0.00	46.82	Vertical



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1.35. Test Band = SA_Band=78_TM1

1.36. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.4651	-71.54	-64.65	-13.00	51.65	Horizontal
2	226.2893	-71.98	-69.82	-13.00	56.82	Horizontal
3	717.6189	-71.93	-63.03	-13.00	50.03	Horizontal
4	2704.7409	-69.75	-36.98	-13.00	23.98	Horizontal
5	6951.5952	-71.54	-40.57	-13.00	27.57	Horizontal
6	16393.159	-58.67	-44.72	0.00	44.72	Horizontal



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1.37. Test Band = SA_Band=78_TM1

1.37.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	77.2899	-66.50	-65.13	-13.00	52.13	Vertical
2	384.3102	-70.76	-67.52	-13.00	54.52	Vertical
3	787.3654	-71.79	-62.12	-13.00	49.12	Vertical
4	2698.7397	-69.17	-37.52	-13.00	24.52	Vertical
5	6933.9934	-71.14	-40.44	-13.00	27.44	Vertical
6	16877.191	-59.29	-47.02	0.00	47.02	Vertical

2.



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1.38. Test Band = NSA_Band=7+66_TM1

1.38.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.9425	-72.92	-84.41	-13.00	71.41	Horizontal
2	152.7050	-74.64	-86.92	-13.00	73.92	Horizontal
3	205.3275	-73.46	-79.84	-13.00	66.84	Horizontal
4	1331.8166	-73.12	-60.48	-13.00	47.48	Horizontal
5	7099.7050	-58.11	-52.94	-13.00	39.94	Horizontal
6	13683.534	-59.61	-46.35	-13.00	33.35	Horizontal



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1.39. Test Band = NSA_Band=7+66_TM1

1.39.1. Test Channel = Low Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	47.9450	-71.07	-85.99	-13.00	72.99	Vertical
2	150.0375	-73.70	-83.85	-13.00	70.85	Vertical
3	205.0850	-73.57	-78.85	-13.00	65.85	Vertical
4	1381.5191	-72.99	-59.38	-13.00	46.38	Vertical
5	5667.1334	-56.97	-53.63	-13.00	40.63	Vertical
6	10283.614	-61.12	-47.96	-13.00	34.96	Vertical



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1.40. Test Band = NSA_Band=7+66_TM1

1.40.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	52.3100	-73.31	-86.31	-13.00	73.31	Horizontal
2	159.7375	-73.58	-82.33	-13.00	69.33	Horizontal
3	205.0850	-74.46	-80.63	-13.00	67.63	Horizontal
4	1488.9244	-73.73	-60.71	-13.00	47.71	Horizontal
5	5811.1406	-56.81	-52.56	-13.00	39.56	Horizontal
6	12917.745	-60.47	-48.57	-13.00	35.57	Horizontal



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1.41. Test Band = NSA_Band=7+66_TM1

1.41.1. Test Channel = Mid Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	71.4675	-72.83	-86.94	-13.00	73.94	Vertical
2	204.8425	-73.85	-79.19	-13.00	66.19	Vertical
3	565.6825	-73.53	-83.08	-13.00	70.08	Vertical
4	1388.9194	-73.05	-59.38	-13.00	46.38	Vertical
5	6756.1878	-59.23	-52.01	-13.00	39.01	Vertical
6	13109.005	-60.02	-49.63	-13.00	36.63	Vertical



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1.42. Test Band = NSA_Band=7+66_TM1

1.42.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	46.4900	-73.35	-85.44	-13.00	72.44	Horizontal
2	156.1000	-72.78	-81.58	-13.00	68.58	Horizontal
3	204.3575	-73.50	-80.35	-13.00	67.35	Horizontal
4	1283.2142	-72.95	-60.77	-13.00	47.77	Horizontal
5	5691.8846	-56.83	-53.26	-13.00	40.26	Horizontal
6	11306.6653	-58.07	-47.49	-13.00	34.49	Horizontal



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1.43. Test Band = NSA_Band=7+66_TM1

1.43.1. Test Channel = High Channel TRAFFIC

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.0950	-67.96	-87.67	-13.00	74.67	Vertical
2	203.6300	-74.42	-81.10	-13.00	68.10	Vertical
3	594.7825	-73.20	-82.17	-13.00	69.17	Vertical
4	1199.4100	-72.80	-60.22	-13.00	47.22	Vertical
5	6666.9333	-59.47	-52.95	-13.00	39.95	Vertical
6	10945.897	-59.15	-47.97	-13.00	34.97	Vertical

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 All modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.
- 4 The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

The End



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