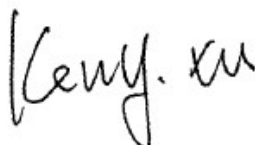


TEST REPORT

Application No.: SZCR2312004130AT
Applicant: Cosonic Intelligent Technologies Co., Ltd.
Address of Applicant: 5th Floor, 1st Building, No.6 South Industry Road Songshan Lake Hi-tech Industrial Development Zone Dongguan 523808 China
Manufacturer: Cosonic Intelligent Technologies Co., Ltd.
Address of Manufacturer: 5th Floor, 1st Building, No.6 South Industry Road Songshan Lake Hi-tech Industrial Development Zone Dongguan 523808 China
Factory: Jiangxi Cosonic Electroacoustic Technologies Co., Ltd.
Address of Factory: Shangli Industrial Park, Jinshan Town, Shangli County, Pingxiang, Jiangxi
Equipment Under Test (EUT):
EUT Name: ONN. WIFI SPEAKER MEDIUM
Model No.: 100136627
Trade Mark: onn.
FCC ID: 2ALVK-ONN100136627
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2023-12-14
Date of Test: 2023-12-15 to 2023-12-18
Date of Issue: 2023-12-29

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
EMC Laboratory Manager



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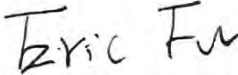
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Report No.: SZCR231200413005
Page: 2 of 293

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-12-29		Original

Authorized for issue by:				
				
		Bill Chen/Project Engineer		
				
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 4 of 293

Declaration of EUT Family Grouping:

Model No.: 100136627, 100135446

Only the model 100136627 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on product ID design and the circuit design of module peripheral.



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3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	5
4 General Information	7
4.1 Details of E.U.T.	7
4.2 Description of Support Units	8
4.3 Measurement Uncertainty	8
4.4 Test Location	9
4.5 Test Facility	9
4.6 Deviation from Standards	9
4.7 Abnormalities from Standard Conditions	9
5 Equipment List	10
6 Radio Spectrum Technical Requirement	16
6.1 Antenna Requirement	16
6.1.1 Test Requirement:	16
6.1.2 Conclusion	16
6.2 Transmission in the Absence of Data	17
6.2.1 Test Requirement:	17
6.2.2 Conclusion	17
7 Radio Spectrum Matter Test Results	18
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	18
7.1.1 E.U.T. Operation	18
7.1.2 Test Mode Description	18
7.1.3 Test Setup Diagram	19
7.1.4 Measurement Procedure and Data	19
7.2 Duty Cycle	22
7.2.1 E.U.T. Operation	22
7.2.2 Test Setup Diagram	23
7.2.3 Measurement Procedure and Data	23
7.3 99% Bandwidth	24
7.3.1 E.U.T. Operation	24
7.3.2 Test Setup Diagram	25
7.3.3 Measurement Procedure and Data	25
7.4 26dB Emission bandwidth	26
7.4.1 E.U.T. Operation	26
7.4.2 Test Setup Diagram	27
7.4.3 Measurement Procedure and Data	27
7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band)	28
7.5.1 E.U.T. Operation	28



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 6 of 293

7.5.2	Test Setup Diagram	29
7.5.3	Measurement Procedure and Data	29
7.6	Maximum Conducted output power	30
7.6.1	E.U.T. Operation	31
7.6.2	Test Setup Diagram	31
7.6.3	Measurement Procedure and Data	32
7.7	Peak Power spectrum density	33
7.7.1	E.U.T. Operation	33
7.7.2	Test Setup Diagram	34
7.7.3	Measurement Procedure and Data	34
7.8	Radiated Emissions (Below 1GHz)	35
7.8.1	E.U.T. Operation	35
7.8.2	Test Mode Description	35
7.8.3	Test Setup Diagram	36
7.8.4	Measurement Procedure and Data	37
7.9	Radiated Emissions (Above 1GHz)	40
7.9.1	E.U.T. Operation	41
7.9.2	Test Setup Diagram	42
7.9.3	Measurement Procedure and Data	43
7.10	Radiated Emissions which fall in the restricted bands	110
7.10.1	E.U.T. Operation	110
7.10.2	Test Setup Diagram	112
7.10.3	Measurement Procedure and Data	112
7.11	Frequency Stability	191
7.11.1	E.U.T. Operation	191
7.11.2	Test Setup Diagram	192
7.11.3	Measurement Procedure and Data	192
7.12	Non-occupancy period	193
7.12.1	E.U.T. Operation	193
7.12.2	Test Setup Diagram	194
7.12.3	Measurement Procedure and Data	195
7.13	Channel Move Time	196
7.13.1	E.U.T. Operation	196
7.13.2	Test Setup Diagram	197
7.13.3	Measurement Procedure and Data	198
7.14	Channel Closing Transmission Time	199
7.14.1	E.U.T. Operation	199
7.14.2	Test Setup Diagram	200
7.14.3	Measurement Procedure and Data	201
8	Test Setup Photo	202
9	EUT Constructional Details (EUT Photos)	202
10	Appendix	203



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4 General Information

4.1 Details of E.U.T.

Power supply:	Lithium Ion Battery: DC 7.3V 3500mAh rechargeable battery which charged by Type-C port
Cable(s):	Type C cable:56cm unshielded
Operation Frequency/Number of channels (20MHz):	5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-2C: 5500-5700MHz (11 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels); U-NII-2C: 5510-5670MHz (5 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Modulation Type:	OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n 20: 20MHz; 802.11n 40: 40MHz
DFS Function:	Slave without Radar detection
TPC Function:	Support TPC function
Antenna Type:	Dipole Antenna
Antenna Gain:	3.1dBi
RF cable loss:	0.5dB

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Page: 8 of 293

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
Frequency Stability	$\pm 7.25 \times 10^{-8}$

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.

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Report No.: SZCR231200413005

Page: 9 of 293

4.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Report No.: SZCR231200413005

Page: 10 of 293

5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19
Matching Pad	N/A	N/A	SEM021-23	2023-03-22	2024-03-21
Matching Pad	N/A	N/A	SEM021-24	2023-03-22	2024-03-21
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 11 of 293

26dB Emission bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20



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Report No.: SZCR231200413005

Page: 12 of 293

Peak Power spectrum density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19



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Report No.: SZCR231200413005

Page: 13 of 293

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06

Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 14 of 293

Non-occupancy period					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2022-05-14	2025-05-13
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2023-03-31	2024-03-30
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2023-03-20	2024-03-19
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2023-03-20	2024-03-19
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2022-09-20	2023-09-19
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2023-03-21	2024-03-20
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2023-03-31	2024-03-30
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2023-03-31	2024-03-30
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2023-07-07	2024-07-06

Channel Move Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2022-05-14	2025-05-13
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2023-03-31	2024-03-30
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2023-03-20	2024-03-19
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2023-03-20	2024-03-19
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2022-09-20	2023-09-19
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2023-03-21	2024-03-20
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2023-03-31	2024-03-30
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2023-03-31	2024-03-30
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2023-07-07	2024-07-06



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 15 of 293

Channel Closing Transmission Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2022-05-14	2025-05-13
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2023-03-31	2024-03-30
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2023-03-20	2024-03-19
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2023-03-20	2024-03-19
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2022-09-20	2023-09-19
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2023-03-21	2024-03-20
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2023-03-31	2024-03-30
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2023-03-31	2024-03-30
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2023-07-07	2024-07-06

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the 3.2dBi.

Antenna location: Refer to internal photo.

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

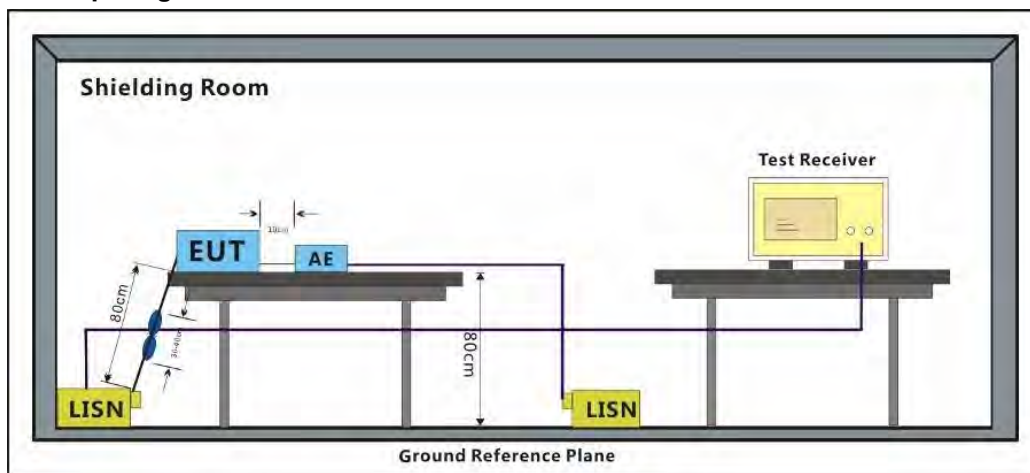
Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charg+TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram

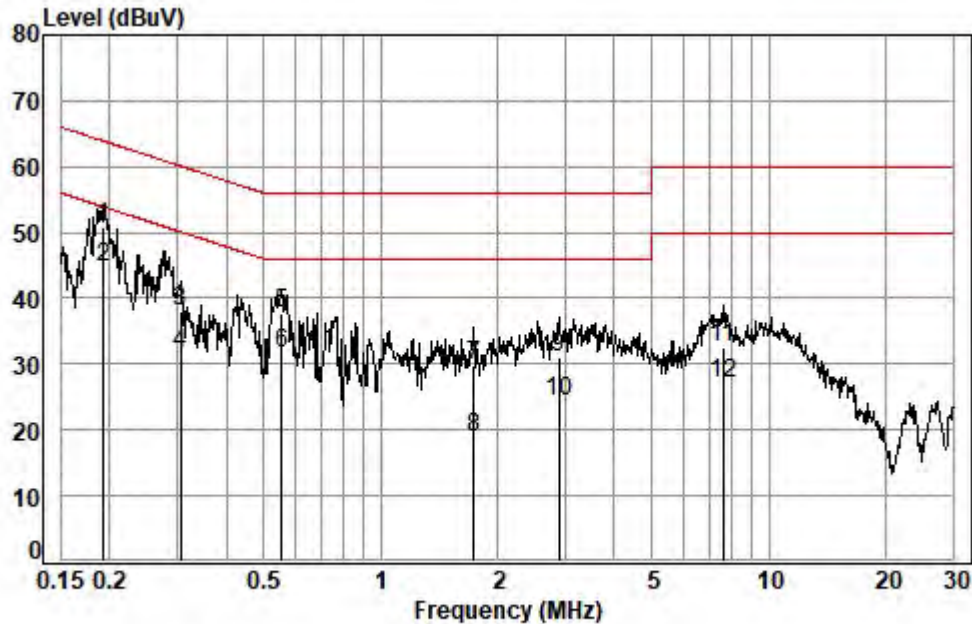


7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor

Test Mode: 14; Line: Live line

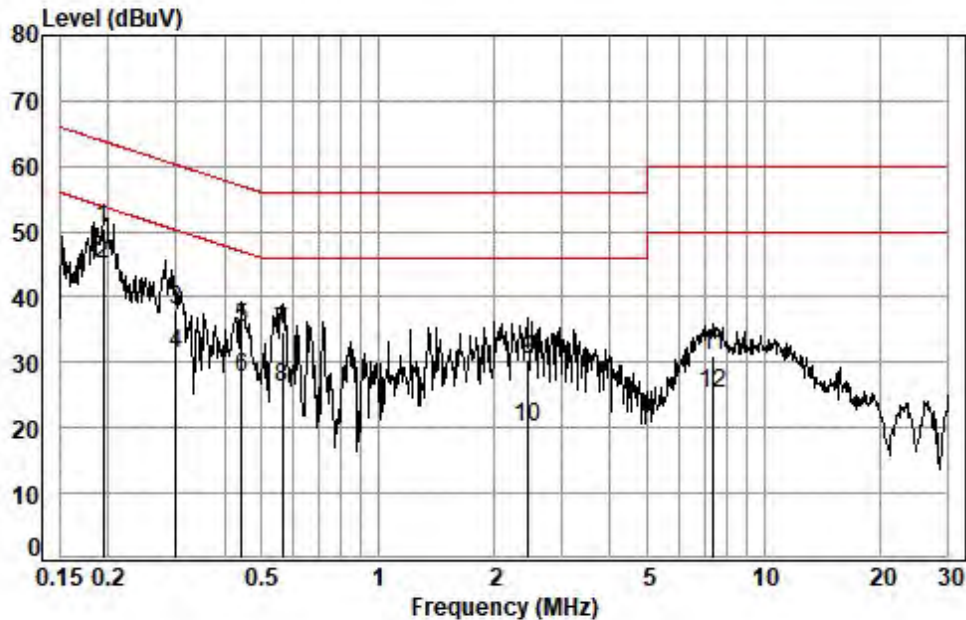


Site : Shielding Room
Condition: Line
Job No. : 04130AT
Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1934	0.02	10.28	40.56	50.86	63.89	-13.03	QP
2 *	0.1934	0.02	10.28	34.42	44.72	53.89	-9.17	Average
3	0.3051	0.03	10.31	27.67	38.01	60.10	-22.09	QP
4	0.3051	0.03	10.31	21.34	31.68	50.10	-18.42	Average
5	0.5552	0.04	10.34	27.30	37.68	56.00	-18.32	QP
6	0.5552	0.04	10.34	21.35	31.73	46.00	-14.27	Average
7	1.7437	0.07	10.38	19.51	29.96	56.00	-26.04	QP
8	1.7437	0.07	10.38	8.47	18.92	46.00	-27.08	Average
9	2.8845	0.07	10.61	20.43	31.11	56.00	-24.89	QP
10	2.8845	0.07	10.61	13.67	24.35	46.00	-21.65	Average
11	7.6060	0.13	11.17	21.25	32.55	60.00	-27.45	QP
12	7.6060	0.13	11.17	15.77	27.07	50.00	-22.93	Average



Test Mode: 14; Line: Live line



Site : Shielding Room
Condition: Neutral
Job No. : 04130AT
Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1945	0.02	10.25	40.37	50.64	63.84	-13.20	QP
2 *	0.1945	0.02	10.25	34.62	44.89	53.84	-8.95	Average
3	0.3003	0.03	10.27	27.82	38.12	60.24	-22.12	QP
4	0.3003	0.03	10.27	21.02	31.32	50.24	-18.92	Average
5	0.4444	0.04	10.29	24.90	35.23	56.98	-21.75	QP
6	0.4444	0.04	10.29	17.35	27.68	46.98	-19.30	Average
7	0.5671	0.04	10.31	24.43	34.78	56.00	-21.22	QP
8	0.5671	0.04	10.31	15.71	26.06	46.00	-19.94	Average
9	2.4476	0.07	10.48	19.98	30.53	56.00	-25.47	QP
10	2.4476	0.07	10.48	9.42	19.97	46.00	-26.03	Average
11	7.4071	0.13	11.18	19.75	31.06	60.00	-28.94	QP
12	7.4071	0.13	11.18	13.88	25.19	50.00	-24.81	Average



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 22 of 293

7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80, Only the data of worst case is recorded in the report.



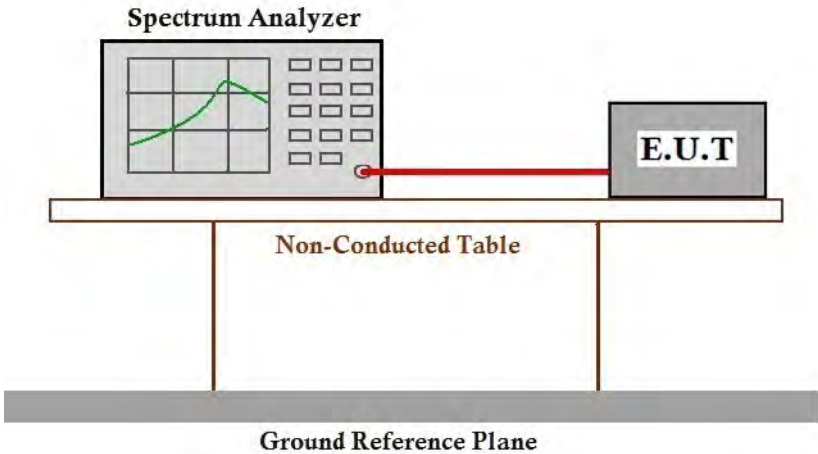
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 24 of 293

7.3 99% Bandwidth

Test Requirement N/A
Test Method: KDB 789033 II D

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

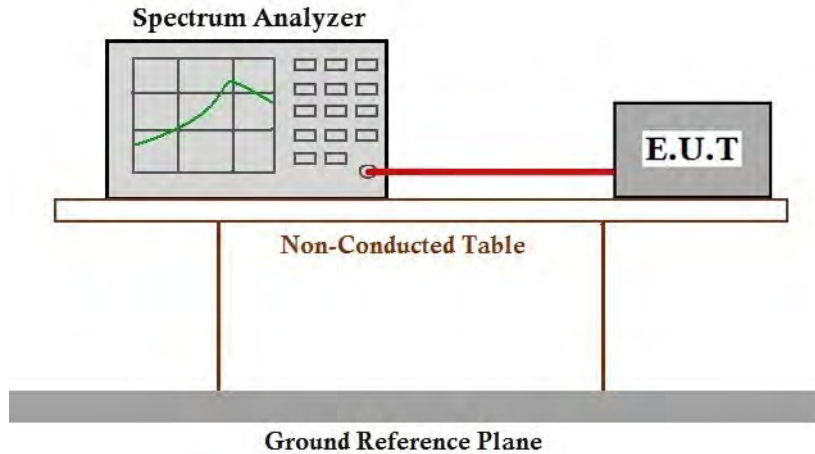
Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.



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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 26 of 293

7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 47.3 % RH

Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.



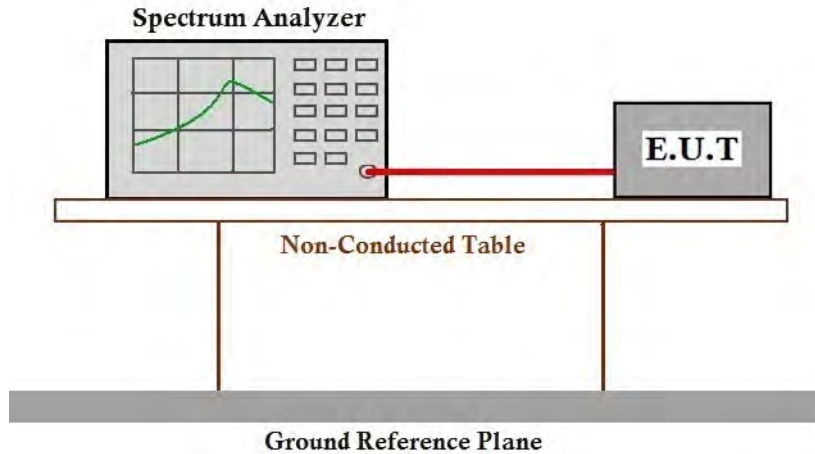
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 28 of 293

7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 47.3 % RH

Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.



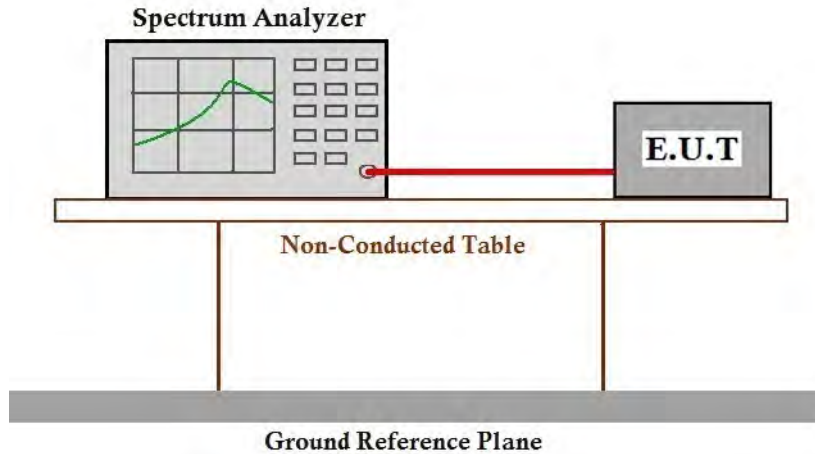
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p>



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 31 of 293

7.6.1 E.U.T. Operation

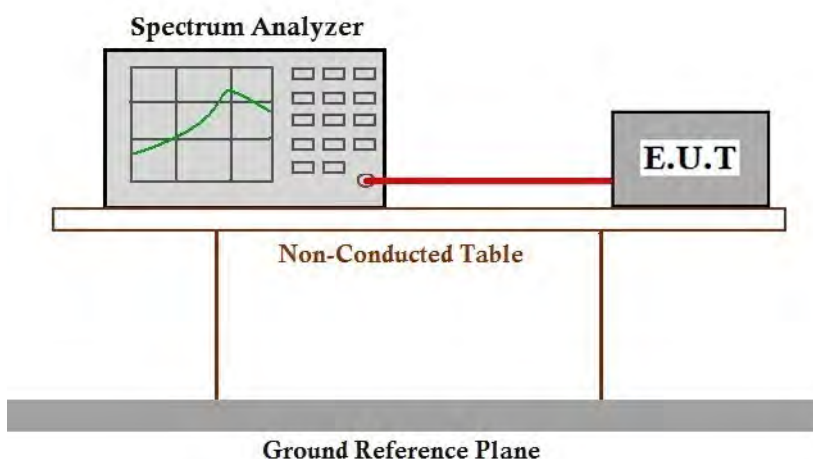
Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 32 of 293

7.6.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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Report No.: SZCR231200413005

Page: 33 of 293

7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.



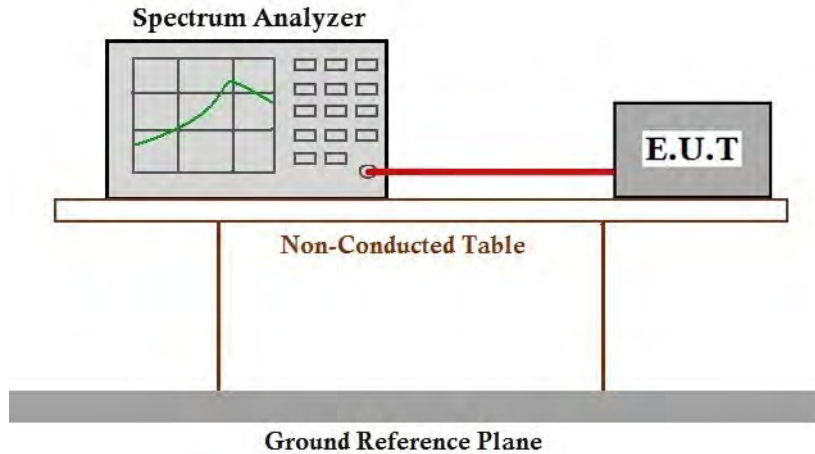
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 35 of 293

7.8 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 45.8 % RH

Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0



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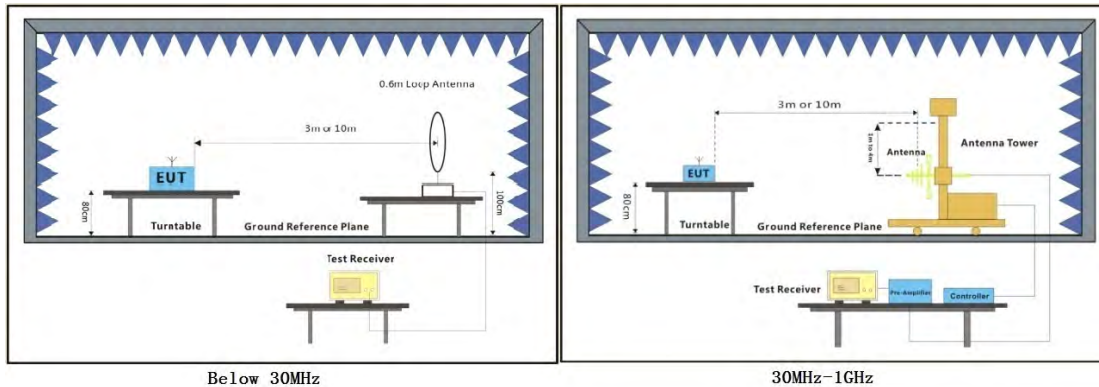
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		is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	14	Charg+TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



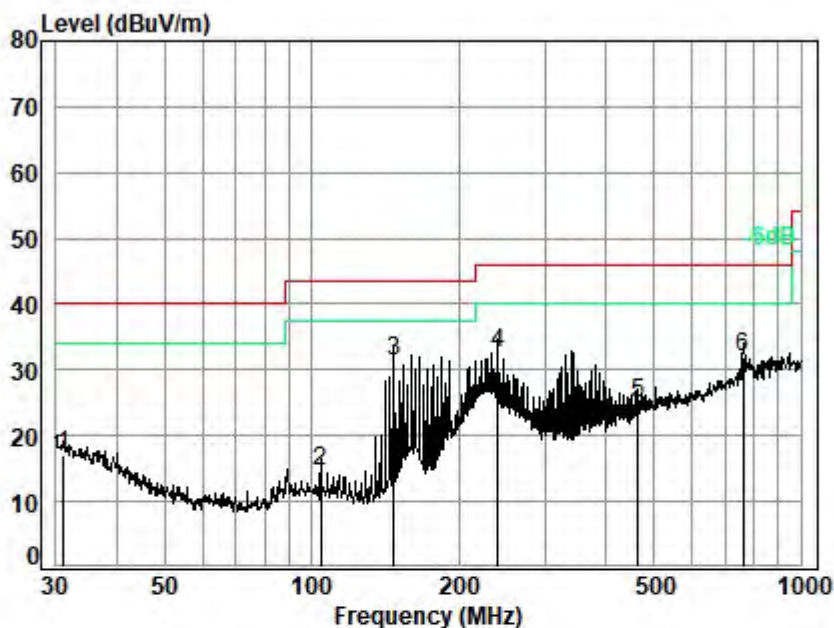
7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Test Mode: 14; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04130AT
Test Mode: 14

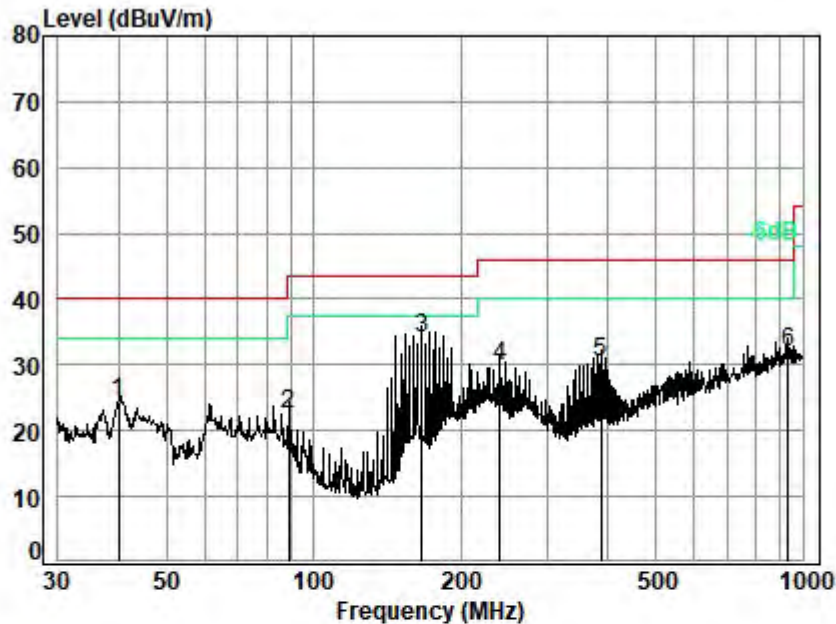
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.071	20.70	0.65	27.80	23.53	17.08	40.00	-22.92 QP
2	104.170	12.23	1.21	27.59	28.62	14.47	43.50	-29.03 QP
3 q	147.404	12.73	1.45	27.44	44.70	31.44	43.50	-12.06 QP
4	239.987	17.07	1.91	27.11	40.78	32.65	46.00	-13.35 QP
5	463.970	21.69	2.77	27.62	28.17	25.01	46.00	-20.99 QP
6	763.376	26.50	3.71	27.72	29.58	32.07	46.00	-13.93 QP



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Test Mode: 14; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04130AT
Test Mode: 14

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	39.994	16.42	0.75	27.78	34.82	24.21	40.00	-15.79 QP
2	88.964	11.60	1.12	27.64	37.38	22.46	43.50	-21.04 QP
3 q	166.068	13.16	1.55	27.37	46.60	33.94	43.50	-9.56 QP
4	239.987	17.07	1.91	27.11	37.82	29.69	46.00	-16.31 QP
5	386.634	20.85	2.50	27.28	34.22	30.29	46.00	-15.71 QP
6	935.546	28.15	4.18	26.96	26.60	31.97	46.00	-14.03 QP



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7.9 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
<p>*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.</p>		



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 41 of 293

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

Humidity: 47.3 % RH

Atmospheric Pressure: 1000 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	14	Charg+TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.



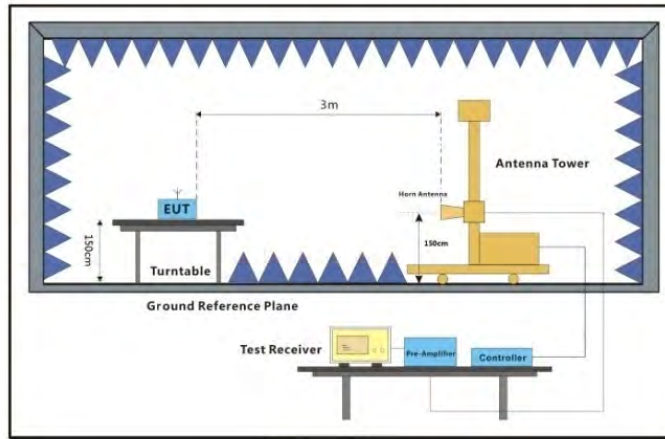
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7.9.3 Test Setup Diagram



Above 1GHz

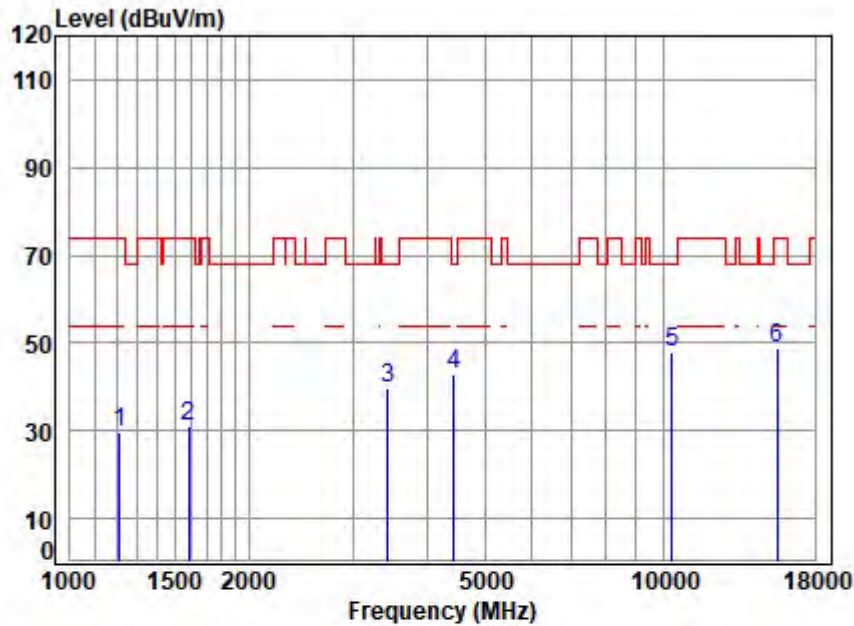
7.9.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

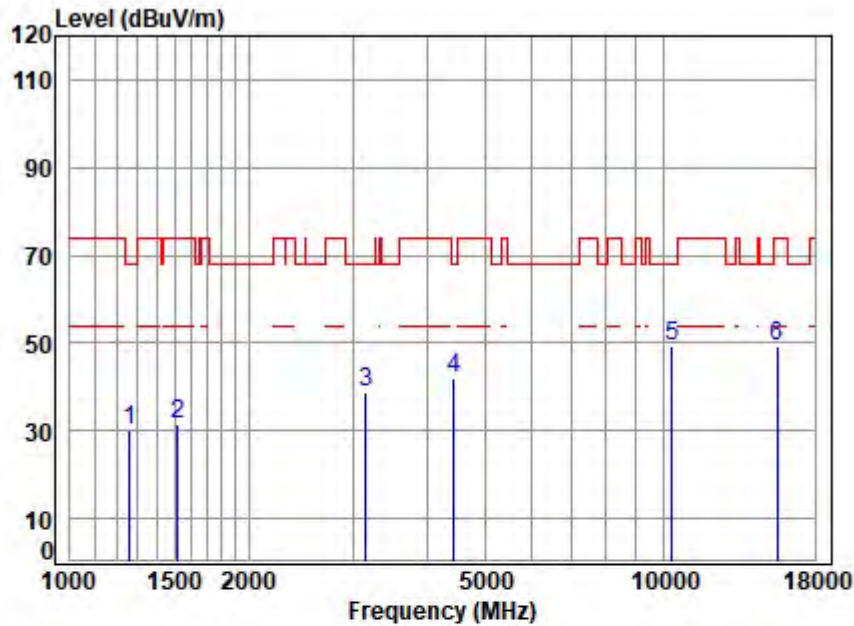
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1210.174	3.60	24.54	38.34	39.65	29.45	74.00	-44.55	peak
2	1587.975	4.18	26.85	38.40	38.48	31.11	74.00	-42.89	peak
3	3435.590	6.15	31.97	36.12	37.58	39.58	68.20	-28.62	peak
4	4443.453	7.09	34.28	35.77	37.22	42.82	68.20	-25.38	peak
5	10360.000	12.73	37.10	37.54	35.74	48.03	68.20	-20.17	peak
6	15540.000	14.23	41.10	37.23	30.84	48.94	74.00	-25.06	peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	39.72	30.10	68.20	-38.10	peak
2	1520.598	4.09	26.88	38.39	38.73	31.31	74.00	-42.69	peak
3	3150.237	5.78	32.50	36.13	36.72	38.87	68.20	-29.33	peak
4	4430.628	7.08	34.43	35.77	36.39	42.13	68.20	-26.07	peak
5	10360.000	12.73	37.10	37.54	36.88	49.17	68.20	-19.03	peak
6	15540.000	14.23	41.10	37.23	31.05	49.15	74.00	-24.85	peak

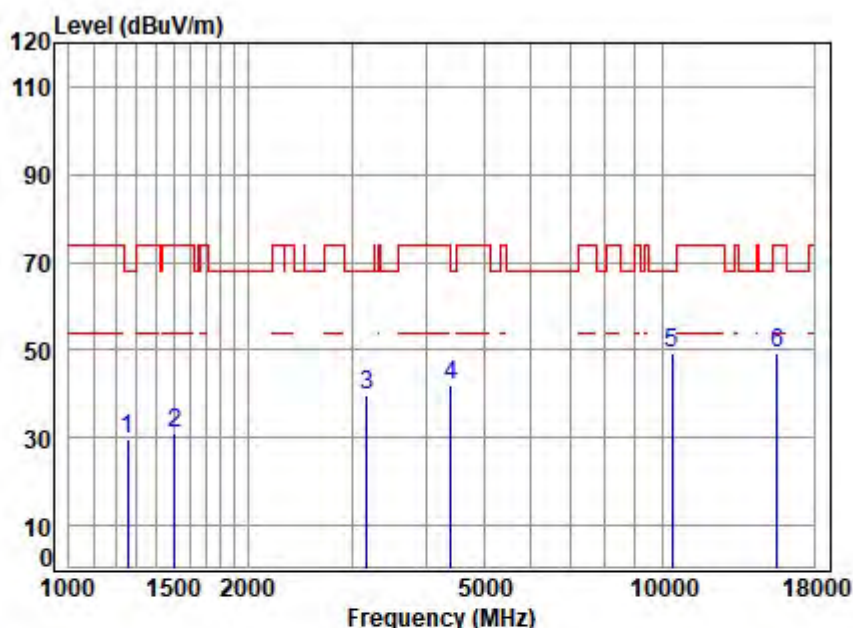


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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

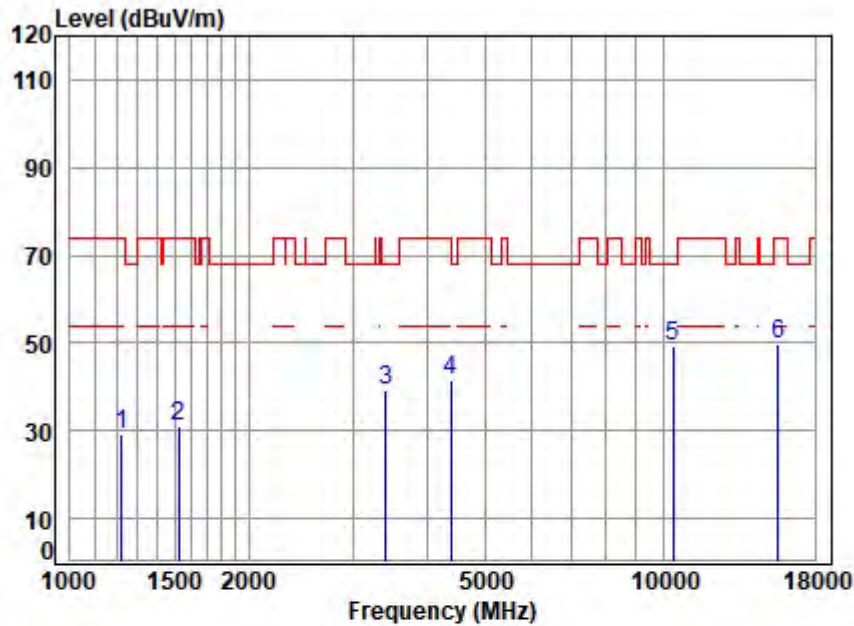


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.68	25.06	38.35	39.29	29.68	68.20	-38.52	peak
2	1507.470	4.07	26.83	38.39	38.56	31.07	74.00	-42.93	peak
3	3177.672	5.82	32.72	36.13	37.14	39.55	68.20	-28.65	peak
4	4405.090	7.06	34.74	35.79	35.87	41.88	68.20	-26.32	peak
5	q10400.000	12.74	37.10	37.56	36.77	49.05	68.20	-19.15	peak
6	15600.000	14.25	41.10	37.26	30.99	49.08	74.00	-24.92	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

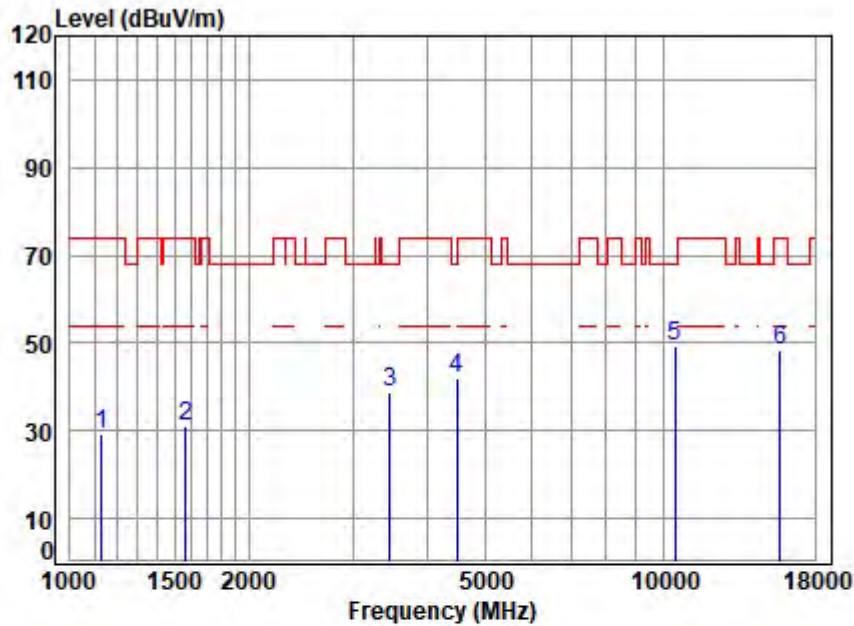


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.62	24.74	38.34	39.30	29.32	74.00	-44.68	peak
2	1525.000	4.10	26.90	38.39	38.57	31.18	74.00	-42.82	peak
3	3405.929	6.11	32.33	36.12	36.92	39.24	68.20	-28.96	peak
4	4392.376	7.05	34.74	35.80	35.73	41.72	74.00	-32.28	peak
5	q10400.000	12.74	37.10	37.56	36.98	49.26	68.20	-18.94	peak
6	15600.000	14.25	41.10	37.26	31.77	49.86	74.00	-24.14	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

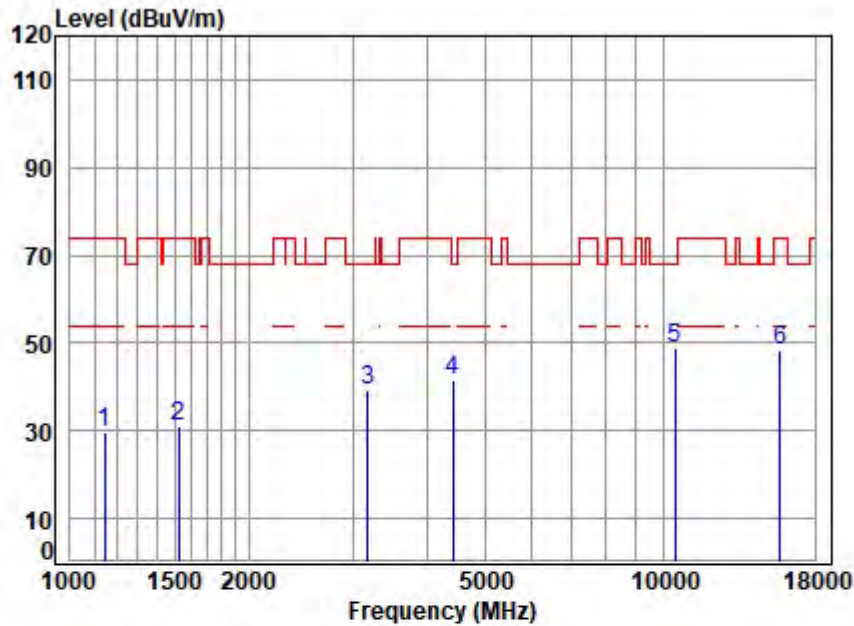
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1132.340	3.46	23.83	38.33	40.27	29.23	74.00	-44.77	peak
2	1569.721	4.16	26.92	38.40	38.32	31.00	74.00	-43.00	peak
3	3465.510	6.18	31.74	36.12	37.06	38.86	68.20	-29.34	peak
4	4482.150	7.11	33.81	35.74	36.78	41.96	68.20	-26.24	peak
5	10480.000	12.76	37.26	37.60	36.92	49.34	68.20	-18.86	peak
6	15720.000	14.29	41.22	37.31	30.33	48.53	74.00	-25.47	peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

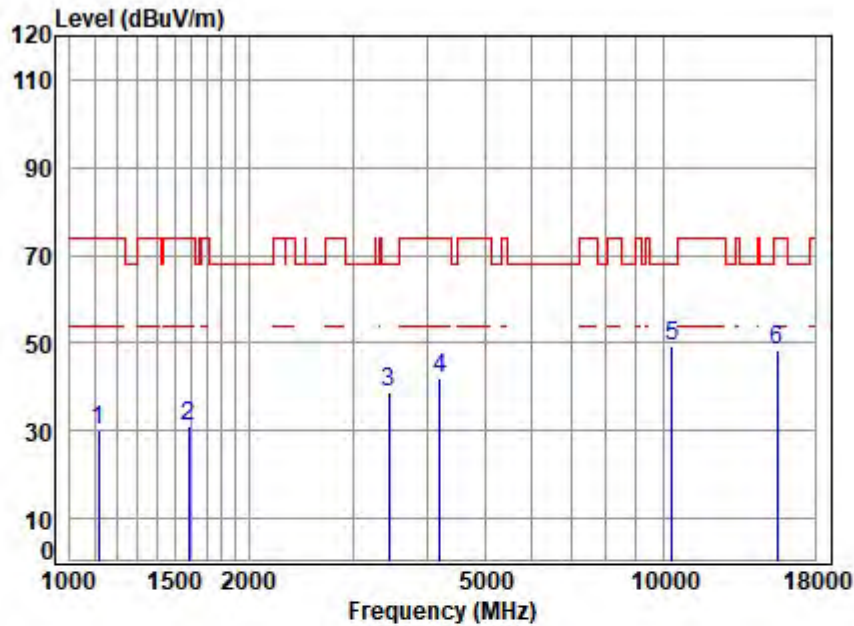


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.201	3.48	23.87	38.33	40.43	29.45	74.00	-44.55	peak
2	1525.000	4.10	26.90	38.39	38.45	31.06	74.00	-42.94	peak
3	3177.672	5.82	32.72	36.13	36.84	39.25	68.20	-28.95	peak
4	4417.841	7.07	34.59	35.78	35.84	41.72	68.20	-26.48	peak
5	10480.000	12.76	37.26	37.60	36.53	48.95	68.20	-19.25	peak
6	15720.000	14.29	41.22	37.31	30.15	48.35	74.00	-25.65	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

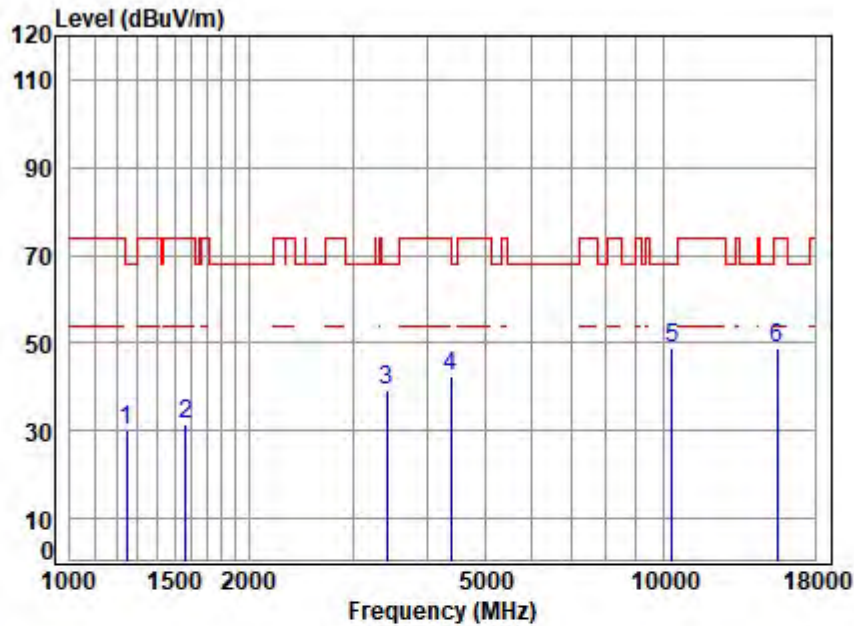


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	3.43	23.76	38.32	41.23	30.10	74.00	-43.90	peak
2	1583.392	4.18	26.87	38.40	38.36	31.01	74.00	-42.99	peak
3	3445.535	6.16	31.85	36.12	37.05	38.94	68.20	-29.26	peak
4	4206.011	6.93	33.80	35.94	37.37	42.16	74.00	-31.84	peak
5	q10360.000	12.73	37.10	37.54	36.97	49.26	68.20	-18.94	peak
6	15540.000	14.23	41.10	37.23	30.29	48.39	74.00	-25.61	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

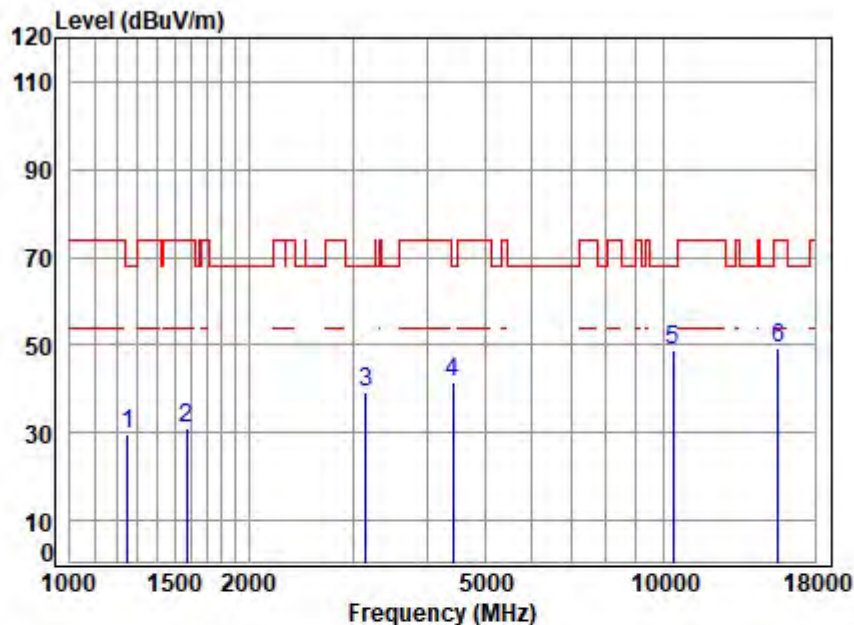


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	39.59	29.94	68.20	-38.26	peak
2	1569.721	4.16	26.92	38.40	38.78	31.46	74.00	-42.54	peak
3	3415.787	6.12	32.21	36.12	36.92	39.13	68.20	-29.07	peak
4	4379.699	7.04	34.64	35.81	36.67	42.54	74.00	-31.46	peak
5	10360.000	12.73	37.10	37.54	36.36	48.65	68.20	-19.55	peak
6	15540.000	14.23	41.10	37.23	30.54	48.64	74.00	-25.36	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

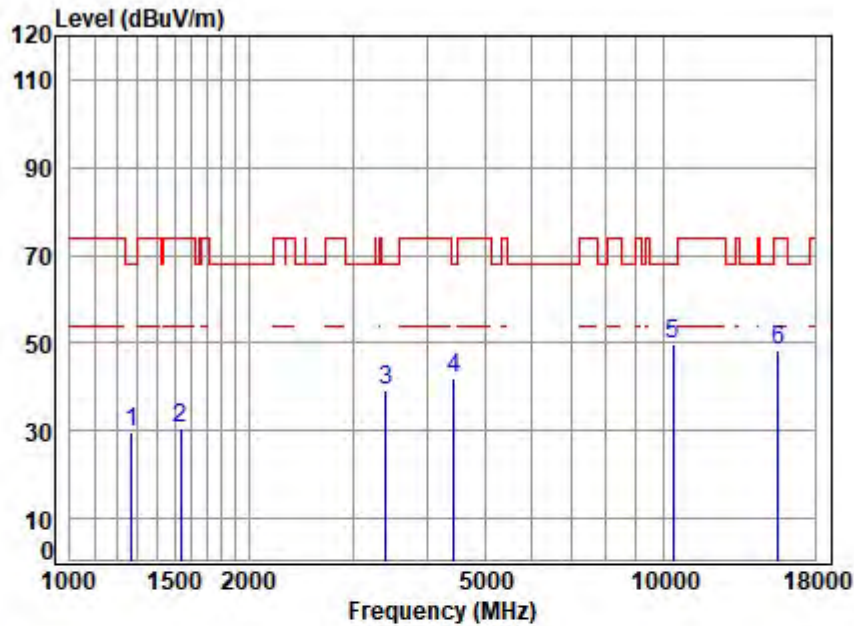


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04130AT
 Mode : 5200 TX RSE
 Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	39.03	29.43	68.20	-38.77	peak
2	1574.265	4.17	26.90	38.40	38.45	31.12	74.00	-42.88	peak
3	3150.237	5.78	32.50	36.13	36.95	39.10	68.20	-29.10	peak
4	4417.841	7.07	34.59	35.78	35.75	41.63	68.20	-26.57	peak
5	10400.000	12.74	37.10	37.56	36.58	48.86	68.20	-19.34	peak
6	15600.000	14.25	41.10	37.26	31.14	49.23	74.00	-24.77	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5200 TX RSE
Note : 5G WIFI 11N20

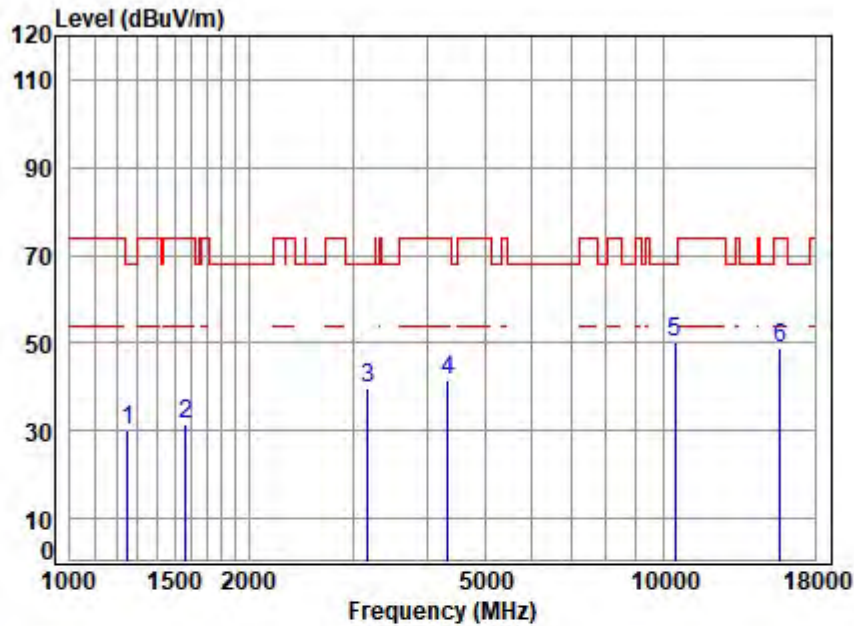
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	3.71	24.97	38.35	39.49	29.82	68.20	-38.38	peak
2	1538.281	4.12	26.95	38.39	38.08	30.76	74.00	-43.24	peak
3	3405.929	6.11	32.33	36.12	36.95	39.27	68.20	-28.93	peak
4	4430.628	7.08	34.43	35.77	36.31	42.05	68.20	-26.15	peak
5	10400.000	12.74	37.10	37.56	37.31	49.59	68.20	-18.61	peak
6	15600.000	14.25	41.10	37.26	30.42	48.51	74.00	-25.49	peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

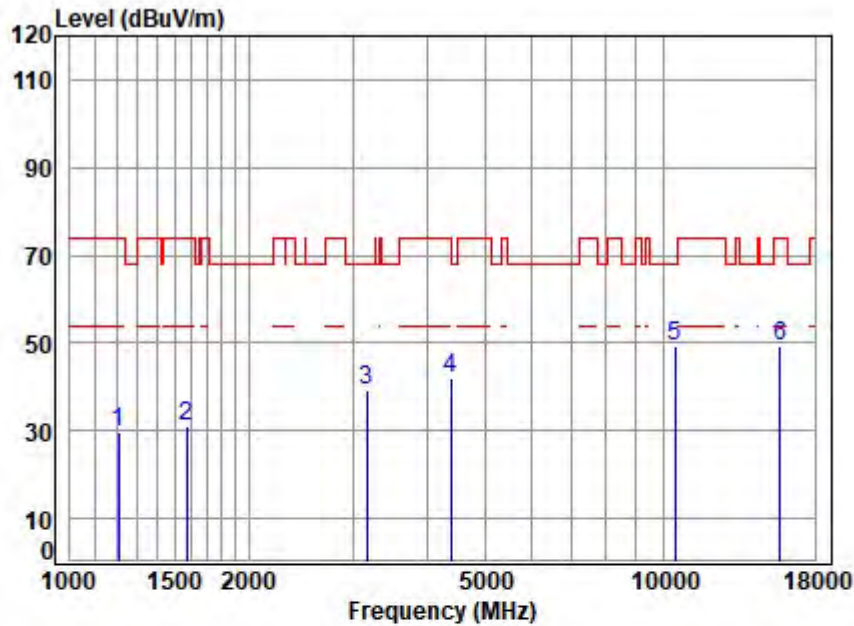


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.67	25.09	38.35	39.64	30.05	68.20	-38.15	peak
2	1569.721	4.16	26.92	38.40	38.70	31.38	74.00	-42.62	peak
3	3177.672	5.82	32.72	36.13	37.07	39.48	68.20	-28.72	peak
4	4329.354	7.01	34.23	35.85	36.16	41.55	74.00	-32.45	peak
5	10480.000	12.76	37.26	37.60	37.61	50.03	68.20	-18.17	peak
6	15720.000	14.29	41.22	37.31	30.51	48.71	74.00	-25.29	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1206.682	3.59	24.49	38.34	39.85	29.59	74.00	-44.41	peak
2	1574.265	4.17	26.90	38.40	38.42	31.09	74.00	-42.91	peak
3	3168.500	5.81	32.65	36.13	36.96	39.29	68.20	-28.91	peak
4	4392.376	7.05	34.74	35.80	35.91	41.90	74.00	-32.10	peak
5	10480.000	12.76	37.26	37.60	36.68	49.10	68.20	-19.10	peak
6	15720.000	14.29	41.22	37.31	30.91	49.11	74.00	-24.89	peak

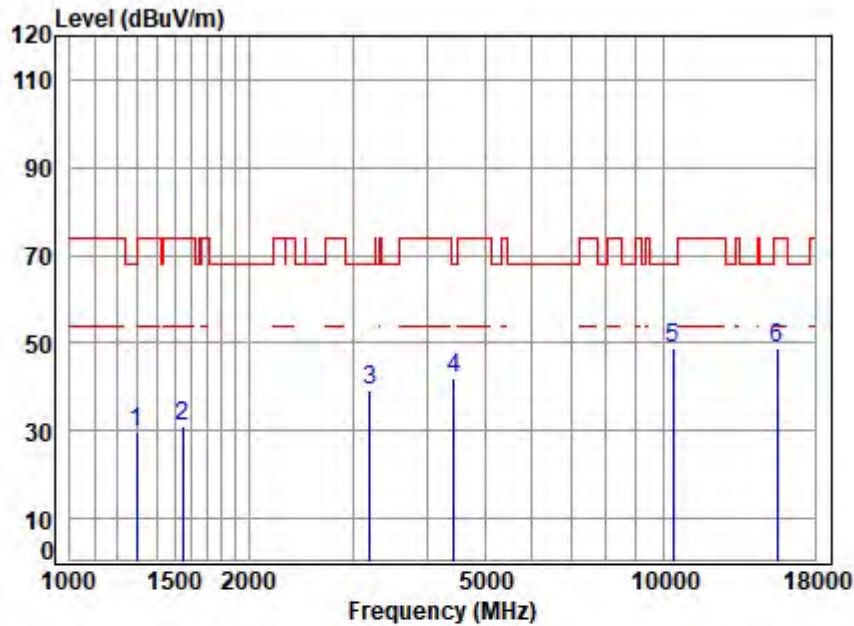


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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5190 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	3.75	24.82	38.36	39.40	29.61	68.20	-38.59	peak
2	1547.199	4.13	26.99	38.39	38.48	31.21	74.00	-42.79	peak
3	3205.345	5.86	32.81	36.13	36.83	39.37	68.20	-28.83	peak
4	4443.453	7.09	34.28	35.77	36.37	41.97	68.20	-26.23	peak
5	10380.000	12.74	37.10	37.55	36.34	48.63	68.20	-19.57	peak
6	15570.000	14.24	41.10	37.25	30.52	48.61	74.00	-25.39	peak

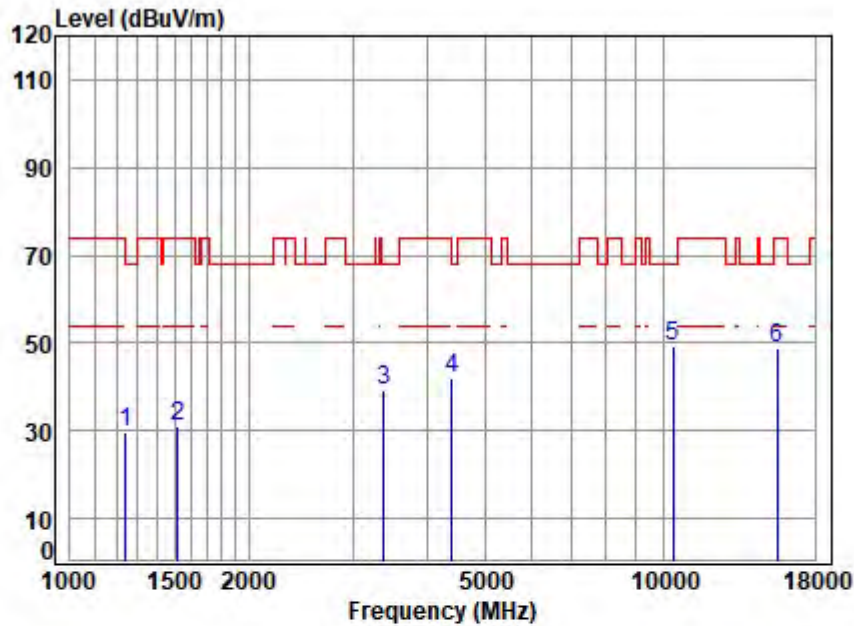


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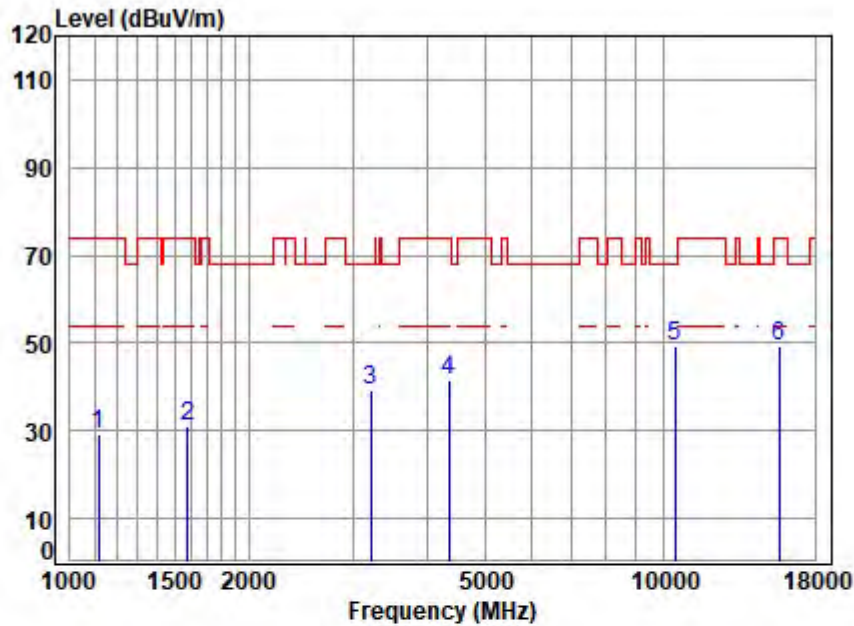
Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5190 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	3.66	24.99	38.35	39.56	29.86	68.20	-38.34	peak
2	1516.210	4.08	26.86	38.39	38.52	31.07	74.00	-42.93	peak
3	3386.297	6.09	32.32	36.12	36.93	39.22	68.20	-28.98	peak
4	4405.090	7.06	34.74	35.79	35.84	41.85	68.20	-26.35	peak
5	10380.000	12.74	37.10	37.55	36.82	49.11	68.20	-19.09	peak
6	15570.000	14.24	41.10	37.25	30.72	48.81	74.00	-25.19	peak

Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5230 TX RSE
Note : 5G WIFI 11N40

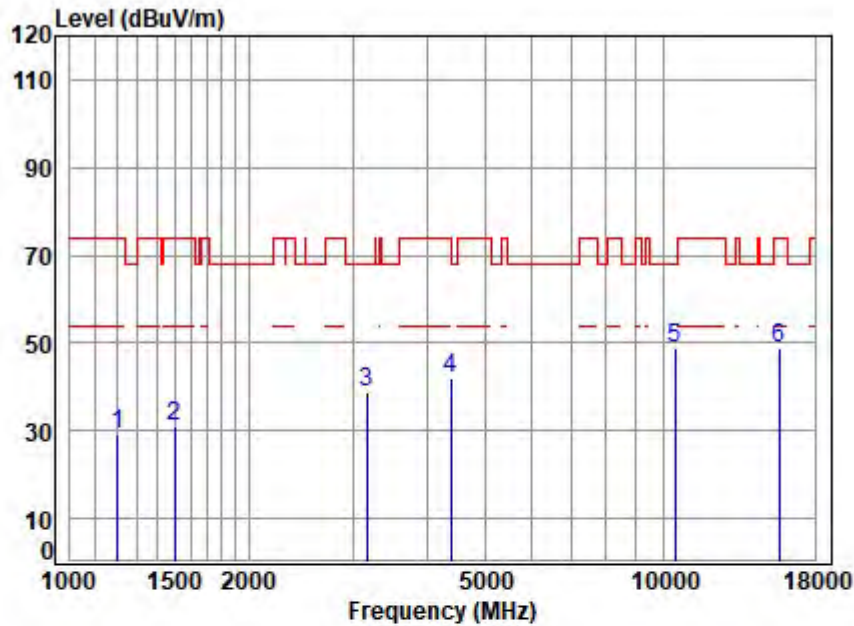
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	3.43	23.76	38.32	40.26	29.13	74.00	-44.87	peak
2	1578.822	4.17	26.88	38.40	38.29	30.94	74.00	-43.06	peak
3	3214.623	5.87	32.67	36.13	36.94	39.35	68.20	-28.85	peak
4	4354.454	7.03	34.44	35.83	36.00	41.64	74.00	-32.36	peak
5	10460.000	12.76	37.22	37.59	36.95	49.34	68.20	-18.86	peak
6	15690.000	14.28	41.19	37.30	30.95	49.12	74.00	-24.88	peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5230 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	3.59	24.44	38.34	39.59	29.28	74.00	-44.72	peak
2	1503.119	4.07	26.81	38.39	38.35	30.84	74.00	-43.16	peak
3	3159.355	5.80	32.57	36.13	36.51	38.75	68.20	-29.45	peak
4	4392.376	7.05	34.74	35.80	36.06	42.05	74.00	-31.95	peak
5	10460.000	12.76	37.22	37.59	36.33	48.72	68.20	-19.48	peak
6	15690.000	14.28	41.19	37.30	30.84	49.01	74.00	-24.99	peak

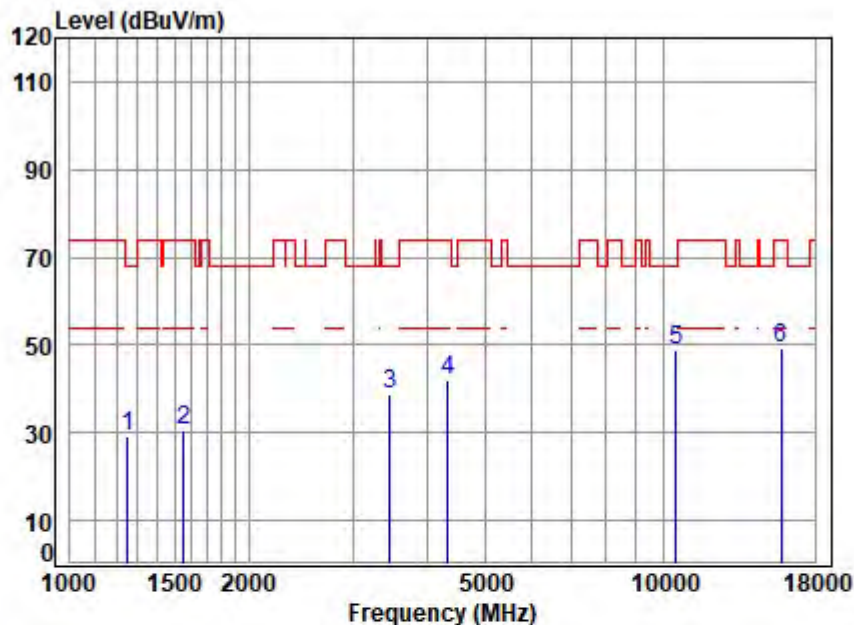


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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

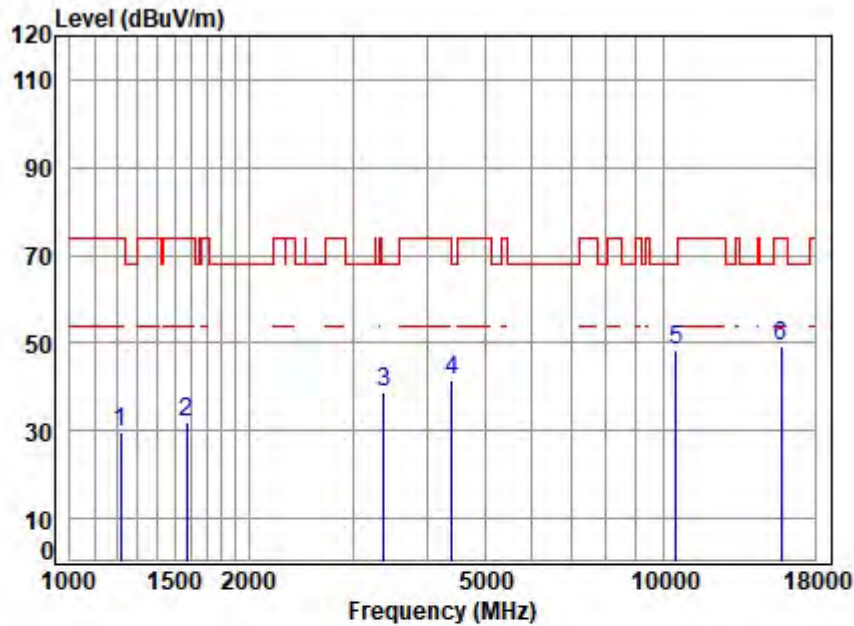


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	38.99	29.39	68.20	-38.81	peak
2	1551.677	4.13	26.99	38.40	37.87	30.59	74.00	-43.41	peak
3	3455.508	6.17	31.78	36.12	36.89	38.72	68.20	-29.48	peak
4	4329.354	7.01	34.23	35.85	36.44	41.83	74.00	-32.17	peak
5	q10520.000	12.77	37.30	37.62	36.23	48.68	68.20	-19.52	peak
6	15780.000	14.31	41.28	37.33	30.92	49.18	74.00	-24.82	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

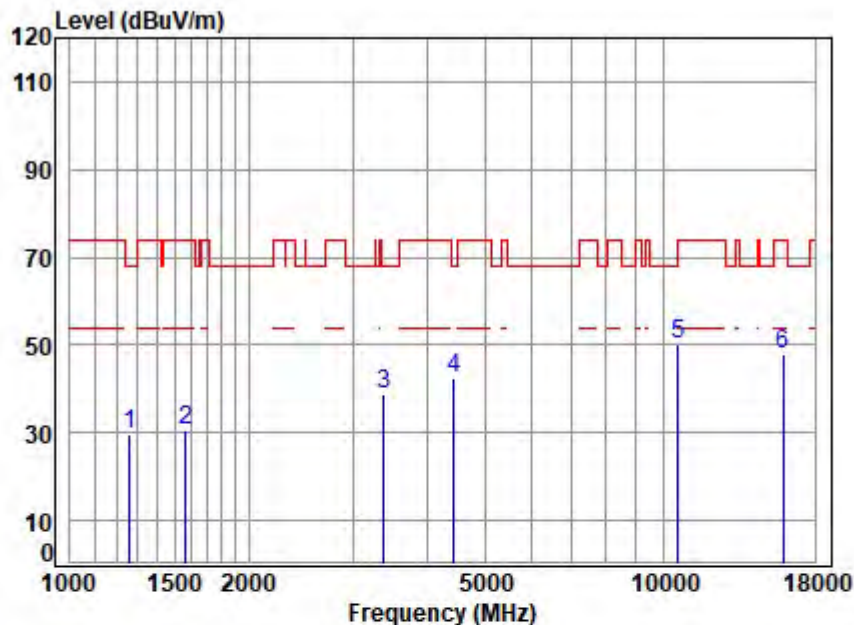
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	3.61	24.64	38.34	39.59	29.50	74.00	-44.50	peak
2	1574.265	4.17	26.90	38.40	39.04	31.71	74.00	-42.29	peak
3	3376.523	6.07	32.26	36.12	36.71	38.92	68.20	-29.28	peak
4	4405.090	7.06	34.74	35.79	35.35	41.36	68.20	-26.84	peak
5	q10520.000	12.77	37.30	37.62	35.91	48.36	68.20	-19.84	peak
6	15780.000	14.31	41.28	37.33	30.83	49.09	74.00	-24.91	peak



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

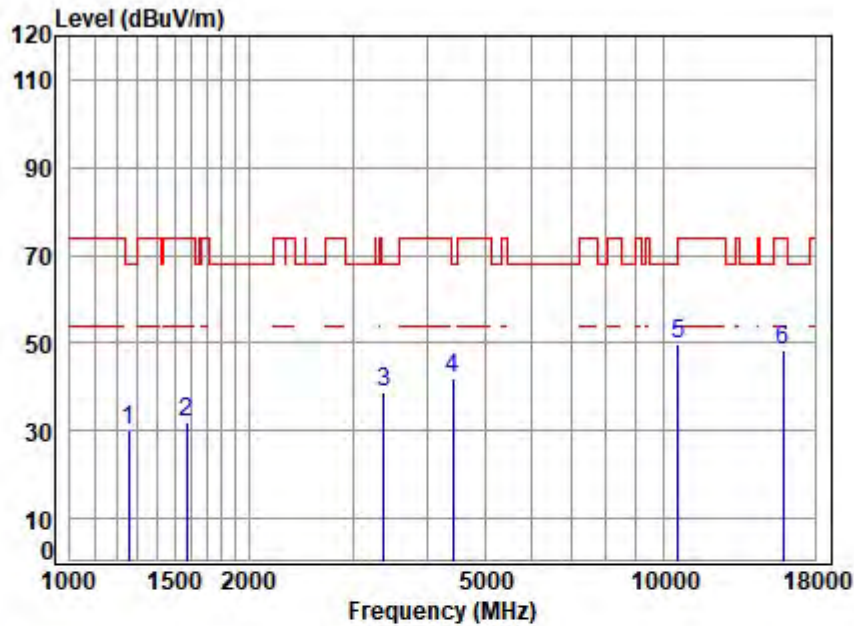


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	39.30	29.68	68.20	-38.52	peak
2	1565.191	4.15	26.94	38.40	37.93	30.62	74.00	-43.38	peak
3	3386.297	6.09	32.32	36.12	36.66	38.95	68.20	-29.25	peak
4	4430.628	7.08	34.43	35.77	36.47	42.21	68.20	-25.99	peak
5	10600.000	12.80	37.30	37.66	37.76	50.20	68.20	-18.00	peak
6	15900.000	14.35	41.40	37.38	29.58	47.95	74.00	-26.05	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

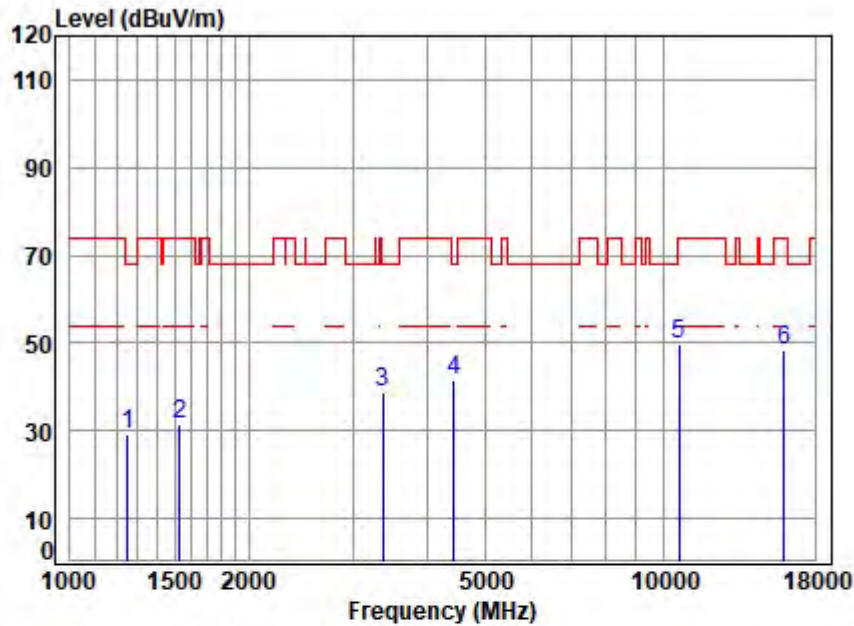
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.68	25.06	38.35	39.67	30.06	68.20	-38.14	peak
2	1574.265	4.17	26.90	38.40	39.28	31.95	74.00	-42.05	peak
3	3386.297	6.09	32.32	36.12	36.48	38.77	68.20	-29.43	peak
4	4417.841	7.07	34.59	35.78	36.23	42.11	68.20	-26.09	peak
5	q10600.000	12.80	37.30	37.66	37.50	49.94	68.20	-18.26	peak
6	15900.000	14.35	41.40	37.38	30.13	48.50	74.00	-25.50	peak



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.67	25.09	38.35	39.00	29.41	68.20	-38.79	peak
2	1529.414	4.10	26.92	38.39	38.69	31.32	74.00	-42.68	peak
3	3366.778	6.06	32.20	36.12	36.60	38.74	68.20	-29.46	peak
4	4430.628	7.08	34.43	35.77	35.78	41.52	68.20	-26.68	peak
5	10640.000	12.81	37.22	37.68	37.57	49.92	74.00	-24.08	peak
6	15960.000	14.37	41.52	37.40	29.70	48.19	74.00	-25.81	peak

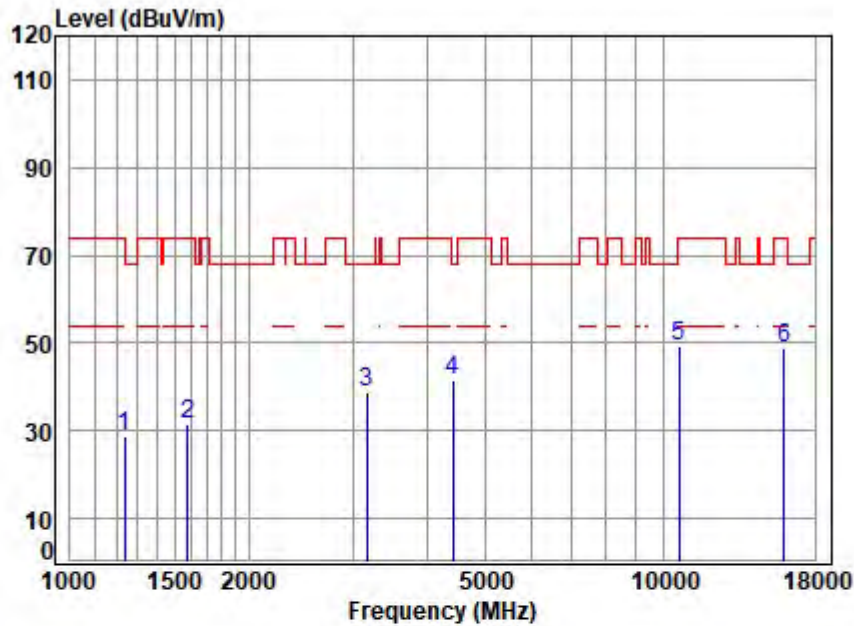


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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	3.65	24.94	38.35	38.67	28.91	74.00	-45.09	peak
2	1578.822	4.17	26.88	38.40	38.82	31.47	74.00	-42.53	peak
3	3159.355	5.80	32.57	36.13	36.44	38.68	68.20	-29.52	peak
4	4417.841	7.07	34.59	35.78	35.44	41.32	68.20	-26.88	peak
5	10640.000	12.81	37.22	37.68	36.82	49.17	74.00	-24.83	peak
6	15960.000	14.37	41.52	37.40	30.35	48.84	74.00	-25.16	peak

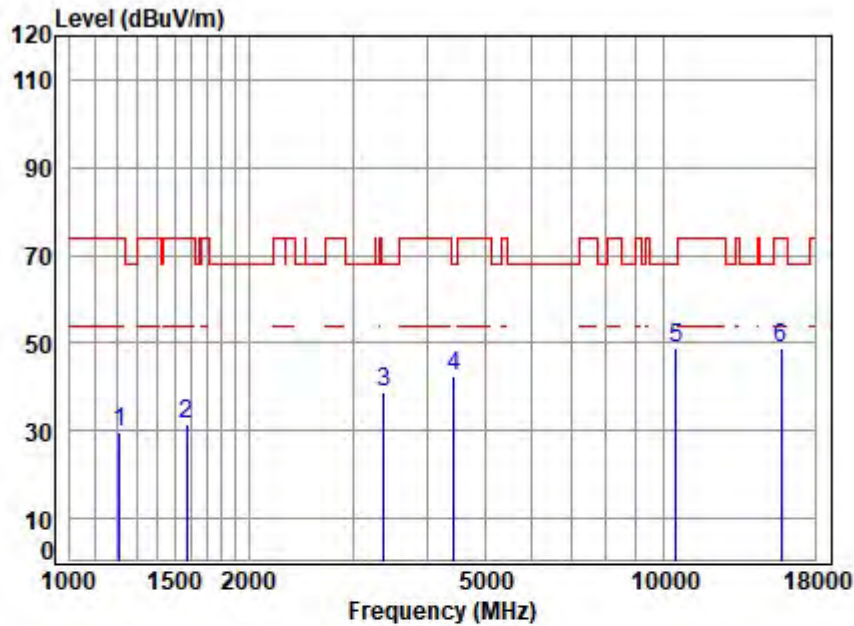


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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

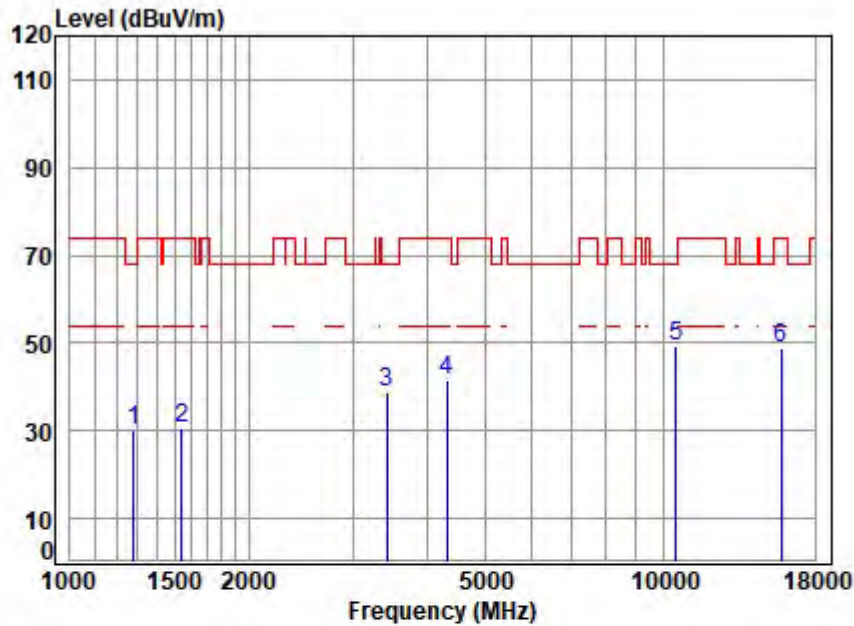


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5260 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1210.174	3.60	24.54	38.34	39.81	29.61	74.00	-44.39	peak
2	1574.265	4.17	26.90	38.40	38.86	31.53	74.00	-42.47	peak
3	3386.297	6.09	32.32	36.12	36.62	38.91	68.20	-29.29	peak
4	4430.628	7.08	34.43	35.77	36.66	42.40	68.20	-25.80	peak
5	q10520.000	12.77	37.30	37.62	36.27	48.72	68.20	-19.48	peak
6	15780.000	14.31	41.28	37.33	30.68	48.94	74.00	-25.06	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

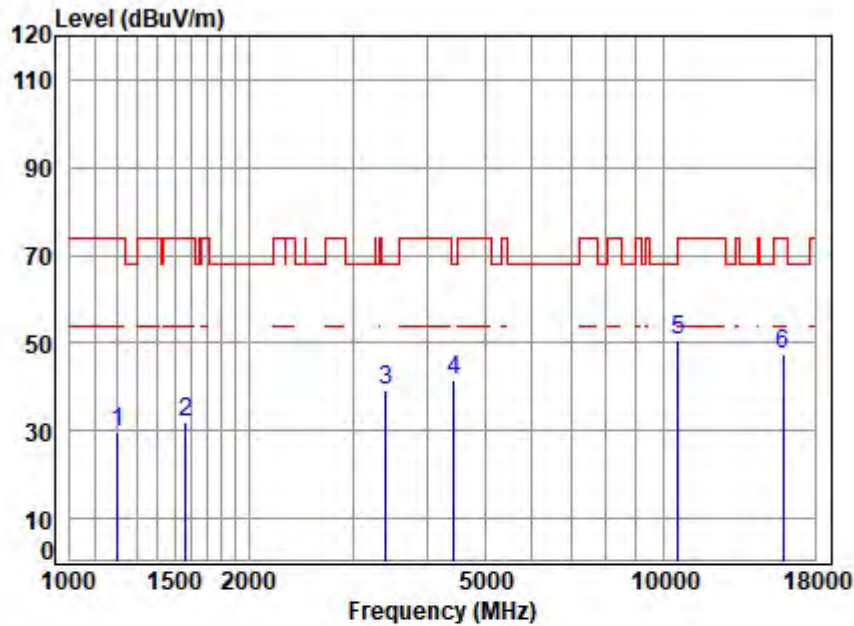


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5260 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.72	24.91	38.35	39.77	30.05	68.20	-38.15	peak
2	1542.733	4.12	26.97	38.39	38.09	30.79	74.00	-43.21	peak
3	3425.675	6.13	32.09	36.12	36.90	39.00	68.20	-29.20	peak
4	4316.859	7.00	34.13	35.86	36.33	41.60	74.00	-32.40	peak
5	q10520.000	12.77	37.30	37.62	36.93	49.38	68.20	-18.82	peak
6	15780.000	14.31	41.28	37.33	30.71	48.97	74.00	-25.03	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

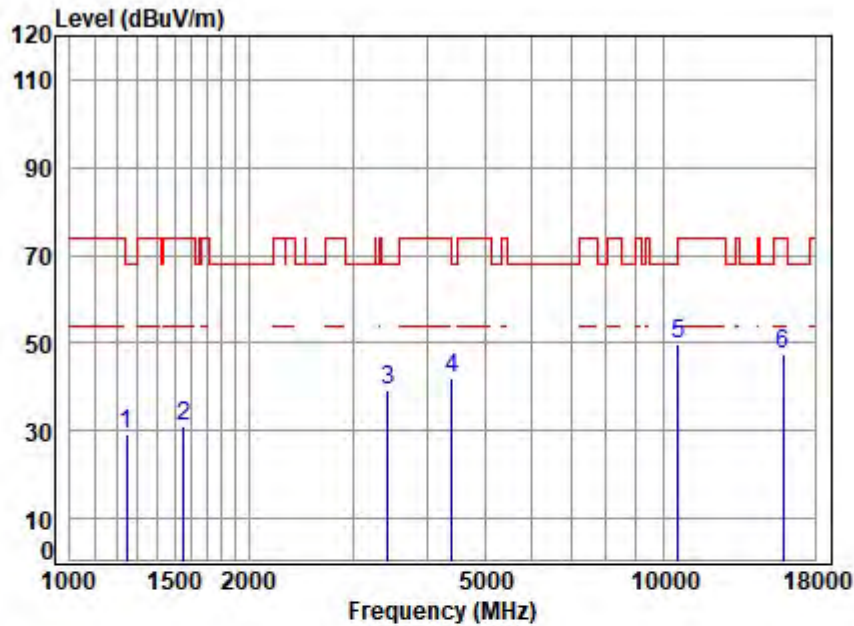


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5300 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	3.59	24.44	38.34	39.92	29.61	74.00	-44.39	peak
2	1565.191	4.15	26.94	38.40	39.09	31.78	74.00	-42.22	peak
3	3405.929	6.11	32.33	36.12	36.88	39.20	68.20	-29.00	peak
4	4443.453	7.09	34.28	35.77	36.06	41.66	68.20	-26.54	peak
5	10600.000	12.80	37.30	37.66	38.07	50.51	68.20	-17.69	peak
6	15900.000	14.35	41.40	37.38	29.30	47.67	74.00	-26.33	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5300 TX RSE
Note : 5G WIFI 11N20

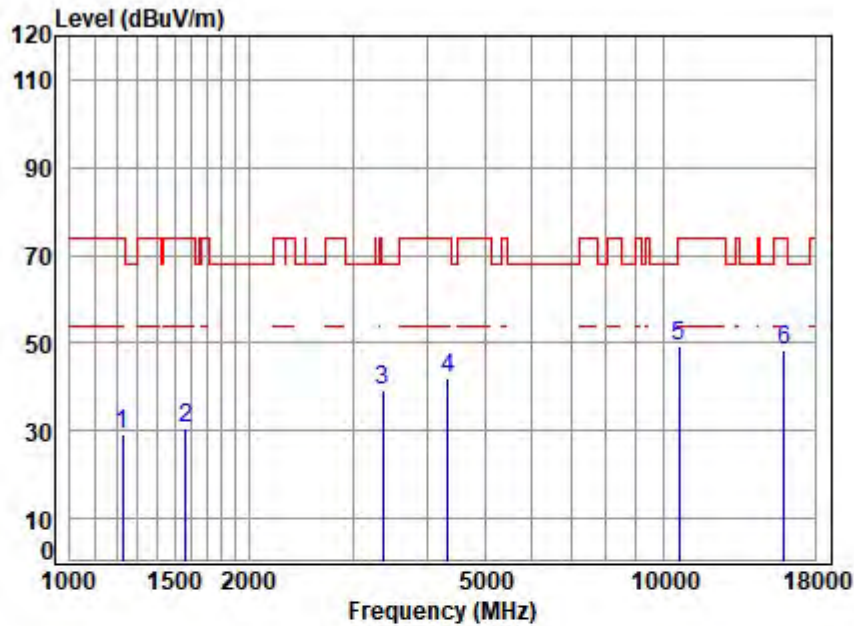
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	38.89	29.24	68.20	-38.96	peak
2	1556.169	4.14	26.98	38.40	38.23	30.95	74.00	-43.05	peak
3	3435.590	6.15	31.97	36.12	37.06	39.06	68.20	-29.14	peak
4	4405.090	7.06	34.74	35.79	35.75	41.76	68.20	-26.44	peak
5	q10600.000	12.80	37.30	37.66	37.48	49.92	68.20	-18.28	peak
6	15900.000	14.35	41.40	37.38	29.06	47.43	74.00	-26.57	peak



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04130AT
 Mode : 5320 TX RSE
 Note : 5G WIFI 11N20

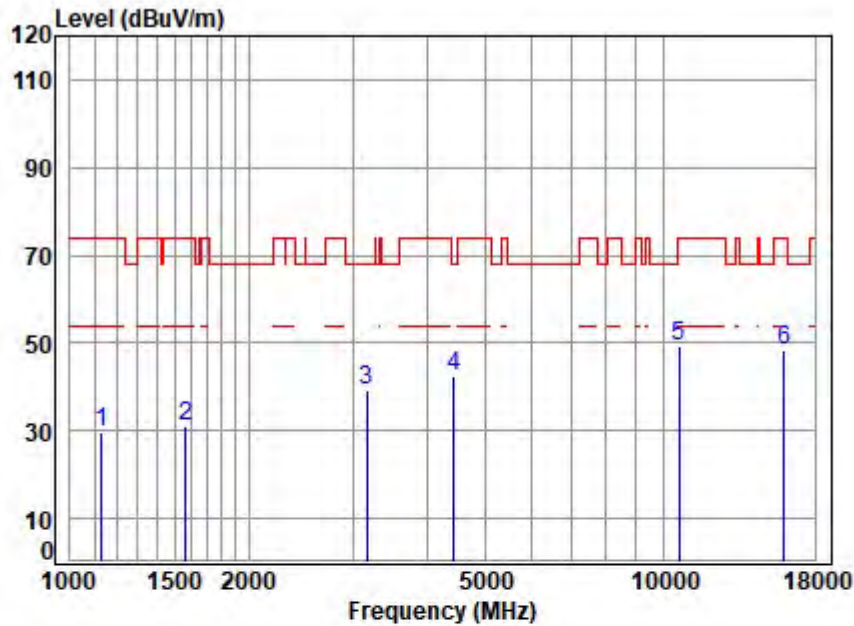
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	3.63	24.79	38.34	39.28	29.36	74.00	-44.64	peak
2	1565.191	4.15	26.94	38.40	38.08	30.77	74.00	-43.23	peak
3	3366.778	6.06	32.20	36.12	37.13	39.27	68.20	-28.93	peak
4	4341.886	7.02	34.34	35.84	36.48	42.00	74.00	-32.00	peak
5	10640.000	12.81	37.22	37.68	36.89	49.24	74.00	-24.76	peak
6	15960.000	14.37	41.52	37.40	29.78	48.27	74.00	-25.73	peak



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

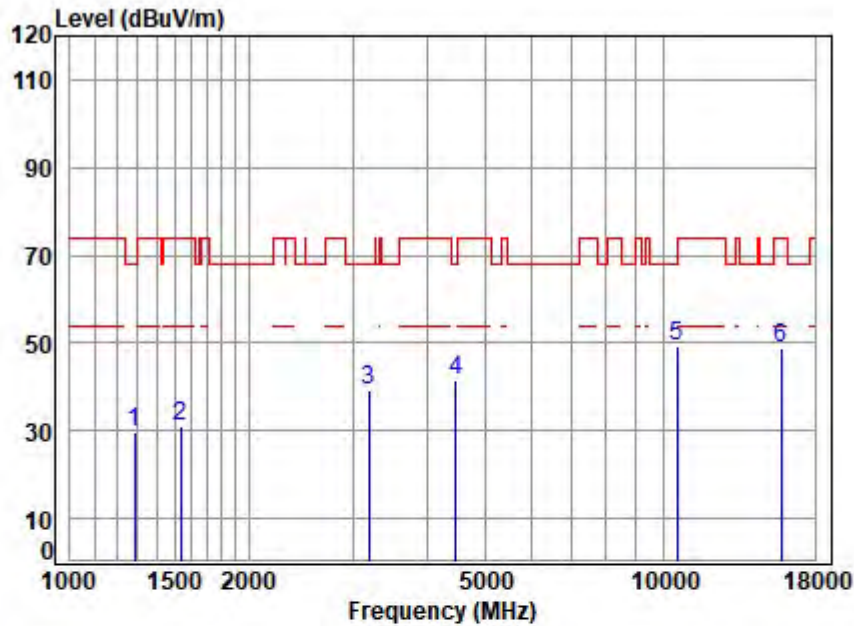


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5320 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1129.072	3.45	23.82	38.33	40.76	29.70	74.00	-44.30	peak
2	1569.721	4.16	26.92	38.40	38.14	30.82	74.00	-43.18	peak
3	3159.355	5.80	32.57	36.13	36.86	39.10	68.20	-29.10	peak
4	4430.628	7.08	34.43	35.77	36.90	42.64	68.20	-25.56	peak
5	10640.000	12.81	37.22	37.68	37.13	49.48	74.00	-24.52	peak
6	15960.000	14.37	41.52	37.40	30.06	48.55	74.00	-25.45	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5270 TX RSE
Note : 5G WIFI 11N40

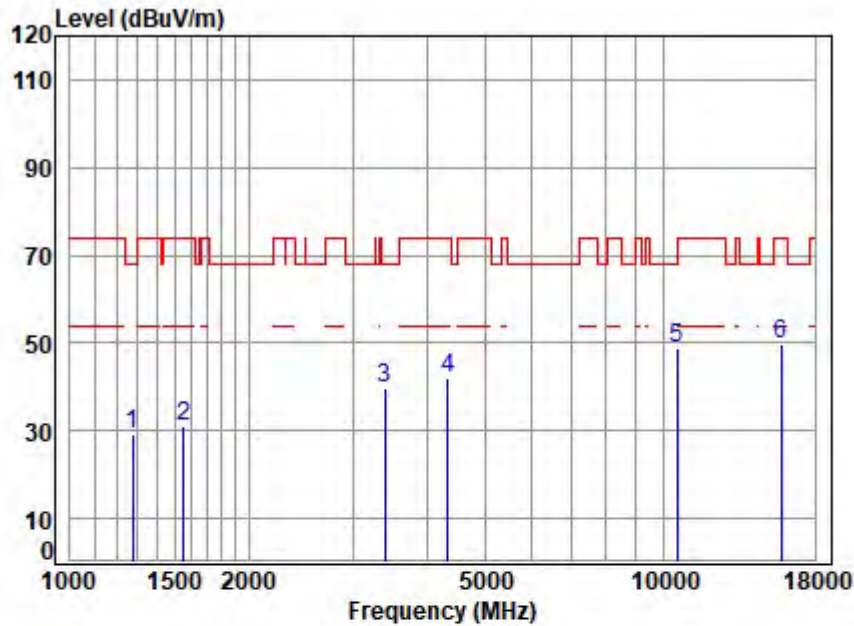
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	3.73	24.88	38.35	39.48	29.74	68.20	-38.46	peak
2	1533.841	4.11	26.94	38.39	38.27	30.93	74.00	-43.07	peak
3	3186.869	5.83	32.79	36.13	36.82	39.31	68.20	-28.89	peak
4	4469.214	7.10	33.97	35.75	36.42	41.74	68.20	-26.46	peak
5	10540.000	12.78	37.30	37.63	36.62	49.07	68.20	-19.13	peak
6	15810.000	14.32	41.31	37.34	30.75	49.04	74.00	-24.96	peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

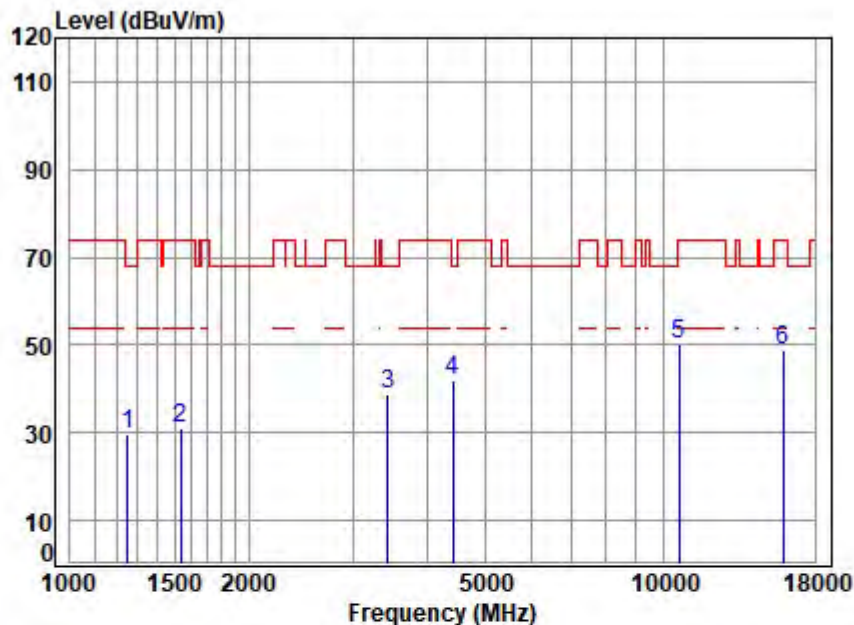


Site : chamber
 Condition: 3m VERTICAL
 Job No : 04130AT
 Mode : 5270 TX RSE
 Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	3.71	24.95	38.35	39.01	29.32	68.20	-38.88	peak
2	1556.169	4.14	26.98	38.40	38.25	30.97	74.00	-43.03	peak
3	3396.098	6.10	32.38	36.12	37.40	39.76	68.20	-28.44	peak
4	4329.354	7.01	34.23	35.85	36.70	42.09	74.00	-31.91	peak
5	10540.000	12.78	37.30	37.63	36.58	49.03	68.20	-19.17	peak
6	15810.000	14.32	41.31	37.34	31.55	49.84	74.00	-24.16	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5310 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.67	25.09	38.35	39.10	29.51	68.20	-38.69	peak
2	1538.281	4.12	26.95	38.39	38.48	31.16	74.00	-42.84	peak
3	3435.590	6.15	31.97	36.12	36.89	38.89	68.20	-29.31	peak
4	4417.841	7.07	34.59	35.78	36.04	41.92	68.20	-26.28	peak
5	10620.000	12.80	37.26	37.67	37.71	50.10	74.00	-23.90	peak
6	15930.000	14.36	41.46	37.39	30.40	48.83	74.00	-25.17	peak

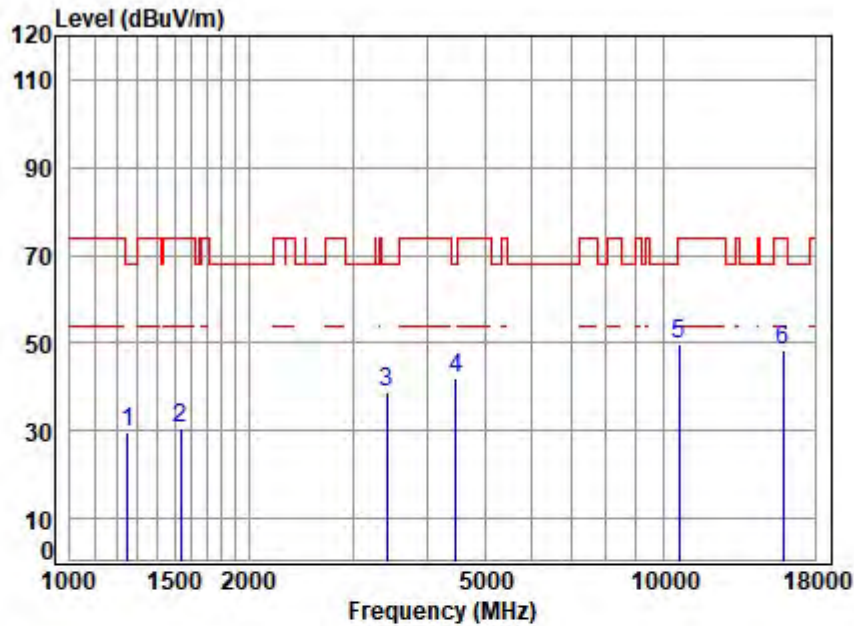


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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5310 TX RSE
Note : 5G WIFI 11N40

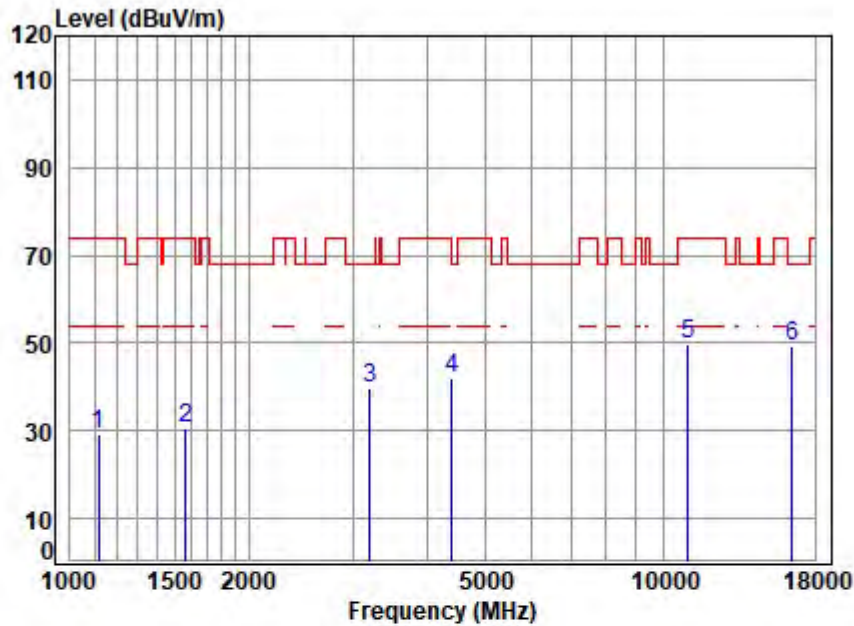
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	39.09	29.49	68.20	-38.71	peak
2	1538.281	4.12	26.95	38.39	37.94	30.62	74.00	-43.38	peak
3	3415.787	6.12	32.21	36.12	36.56	38.77	68.20	-29.43	peak
4	4469.214	7.10	33.97	35.75	36.60	41.92	68.20	-26.28	peak
5	10620.000	12.80	37.26	37.67	37.51	49.90	74.00	-24.10	peak
6	15930.000	14.36	41.46	37.39	30.05	48.48	74.00	-25.52	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

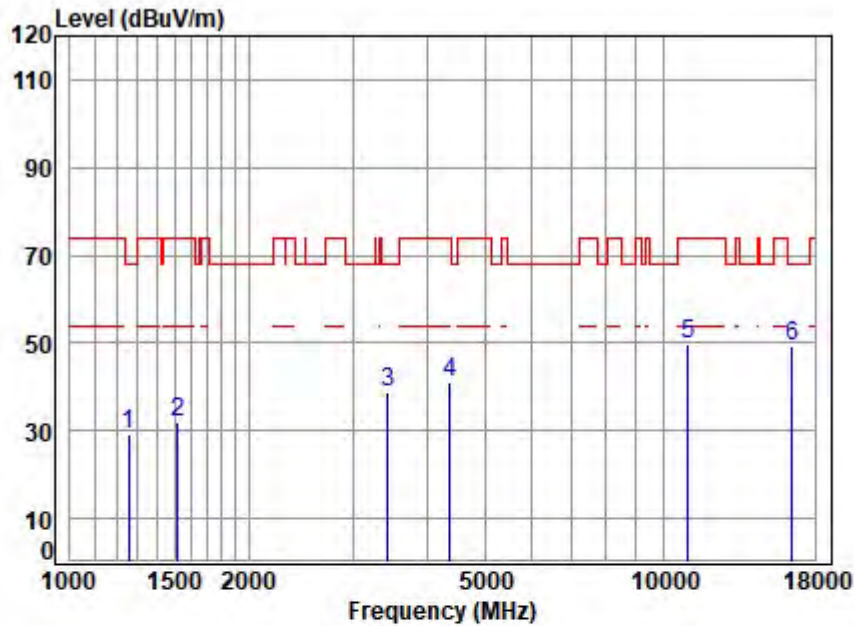


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	3.43	23.76	38.32	40.39	29.26	74.00	-44.74	peak
2	1565.191	4.15	26.94	38.40	38.07	30.76	74.00	-43.24	peak
3	3196.094	5.84	32.87	36.13	36.99	39.57	68.20	-28.63	peak
4	4405.090	7.06	34.74	35.79	35.86	41.87	68.20	-26.33	peak
5	11000.000	12.90	37.50	37.84	37.08	49.64	74.00	-24.36	peak
6	16500.000	14.47	42.10	37.47	30.10	49.20	68.20	-19.00	peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

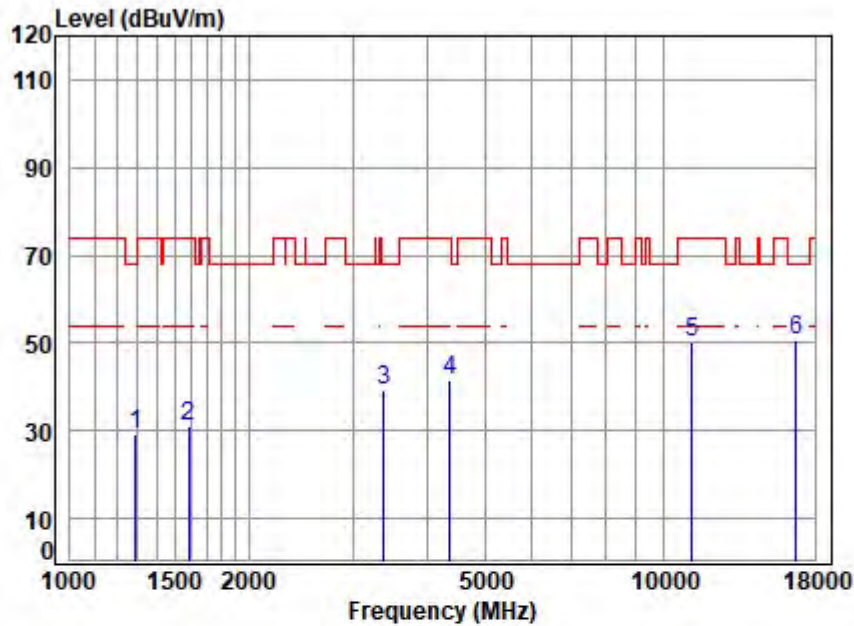


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.68	25.06	38.35	38.64	29.03	68.20	-39.17	peak
2	1516.210	4.08	26.86	38.39	39.31	31.86	74.00	-42.14	peak
3	3435.590	6.15	31.97	36.12	36.71	38.71	68.20	-29.49	peak
4	4367.058	7.04	34.54	35.82	35.48	41.24	74.00	-32.76	peak
5	11000.000	12.90	37.50	37.84	37.11	49.67	74.00	-24.33	peak
6	16500.000	14.47	42.10	37.47	30.04	49.14	68.20	-19.06	peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

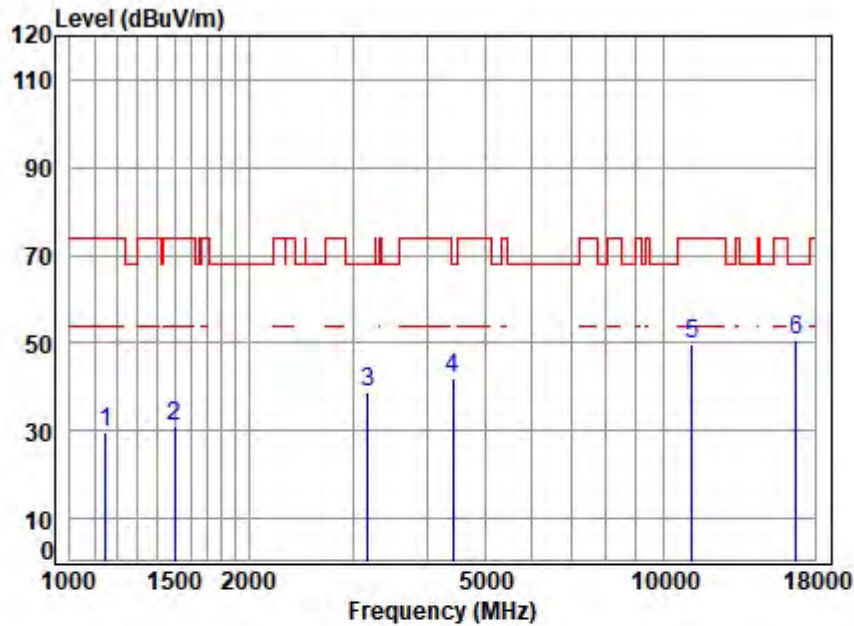


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5580 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	3.74	24.86	38.36	39.14	29.38	68.20	-38.82	peak
2	1587.975	4.18	26.85	38.40	38.23	30.86	74.00	-43.14	peak
3	3376.523	6.07	32.26	36.12	36.80	39.01	68.20	-29.19	peak
4	4367.058	7.04	34.54	35.82	35.82	41.58	74.00	-32.42	peak
5	11160.000	12.93	37.62	37.79	37.31	50.07	74.00	-23.93	peak
6	16740.000	14.51	42.78	37.49	30.93	50.73	68.20	-17.47	peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5580 TX RSE
Note : 5G WIFI 11A

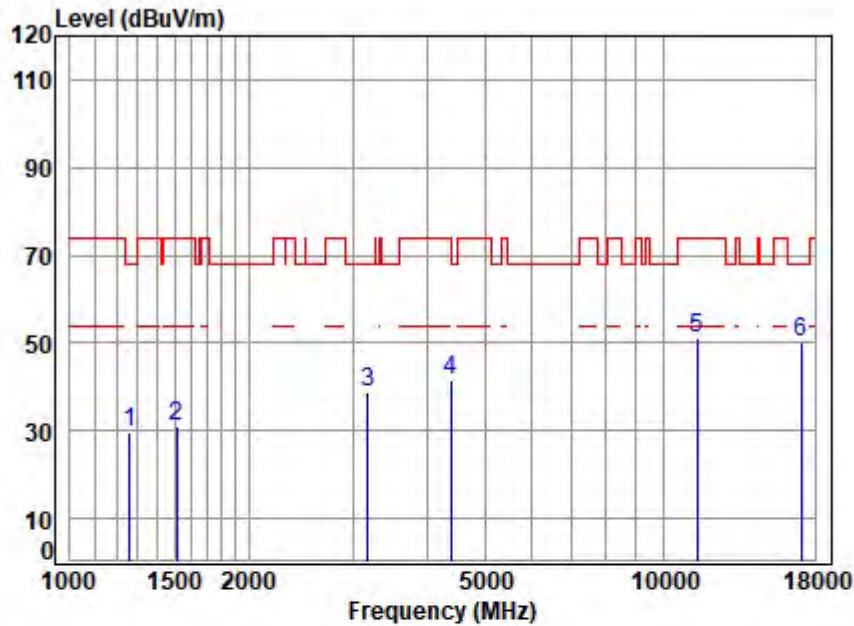
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1148.823	3.49	23.90	38.33	40.76	29.82	74.00	-44.18	peak
2	1498.781	4.06	26.77	38.39	38.51	30.95	74.00	-43.05	peak
3	3177.672	5.82	32.72	36.13	36.55	38.96	68.20	-29.24	peak
4	4417.841	7.07	34.59	35.78	36.22	42.10	68.20	-26.10	peak
5	11160.000	12.93	37.62	37.79	37.05	49.81	74.00	-24.19	peak
6	16740.000	14.51	42.78	37.49	30.90	50.70	68.20	-17.50	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

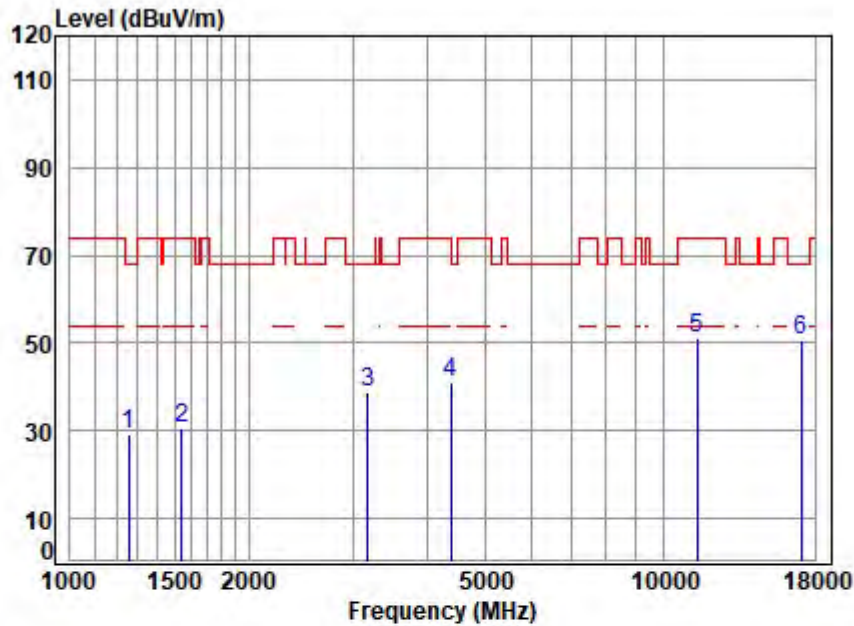


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5700 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	39.09	29.47	68.20	-38.73	peak
2	1511.833	4.08	26.85	38.39	38.41	30.95	74.00	-43.05	peak
3	3177.672	5.82	32.72	36.13	36.33	38.74	68.20	-29.46	peak
4	4392.376	7.05	34.74	35.80	35.67	41.66	74.00	-32.34	peak
5	11400.000	12.98	37.70	37.72	38.35	51.31	74.00	-22.69	peak
6	17100.000	14.62	43.10	37.53	29.97	50.16	68.20	-18.04	peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

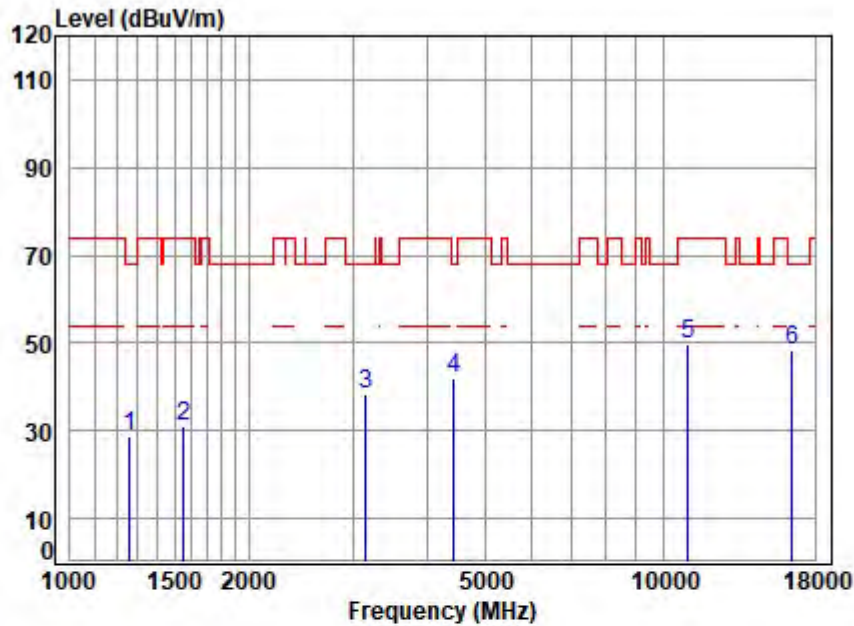


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5700 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.68	25.06	38.35	38.73	29.12	68.20	-39.08	peak
2	1542.733	4.12	26.97	38.39	37.84	30.54	74.00	-43.46	peak
3	3177.672	5.82	32.72	36.13	36.21	38.62	68.20	-29.58	peak
4	4379.699	7.04	34.64	35.81	35.40	41.27	74.00	-32.73	peak
5	11400.000	12.98	37.70	37.72	38.12	51.08	74.00	-22.92	peak
6	17100.000	14.62	43.10	37.53	30.33	50.52	68.20	-17.68	peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

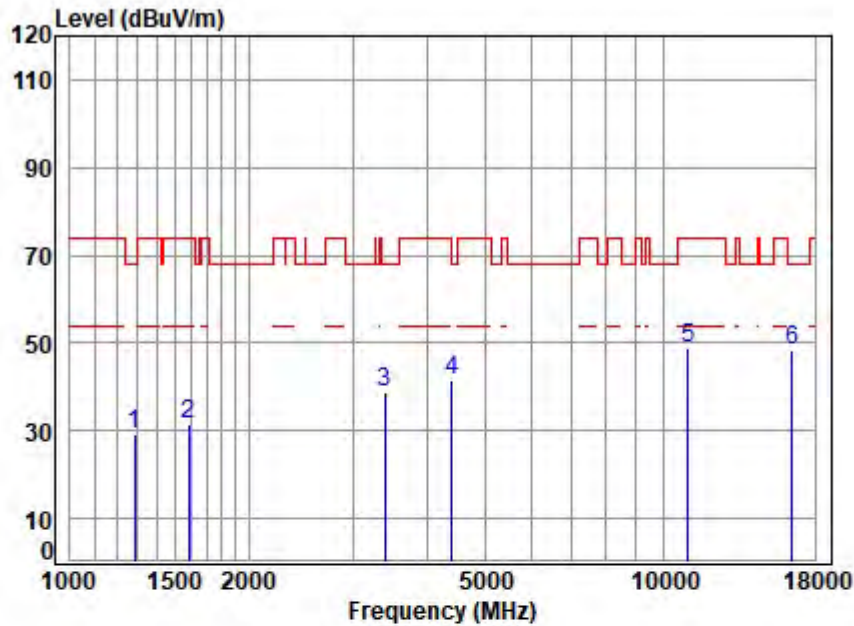


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5500 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	38.49	28.87	68.20	-39.33	peak
2	1556.169	4.14	26.98	38.40	38.22	30.94	74.00	-43.06	peak
3	3150.237	5.78	32.50	36.13	36.28	38.43	68.20	-29.77	peak
4	4443.453	7.09	34.28	35.77	36.48	42.08	68.20	-26.12	peak
5	11000.000	12.90	37.50	37.84	37.02	49.58	74.00	-24.42	peak
6	q16500.000	14.47	42.10	37.47	29.39	48.49	68.20	-19.71	peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

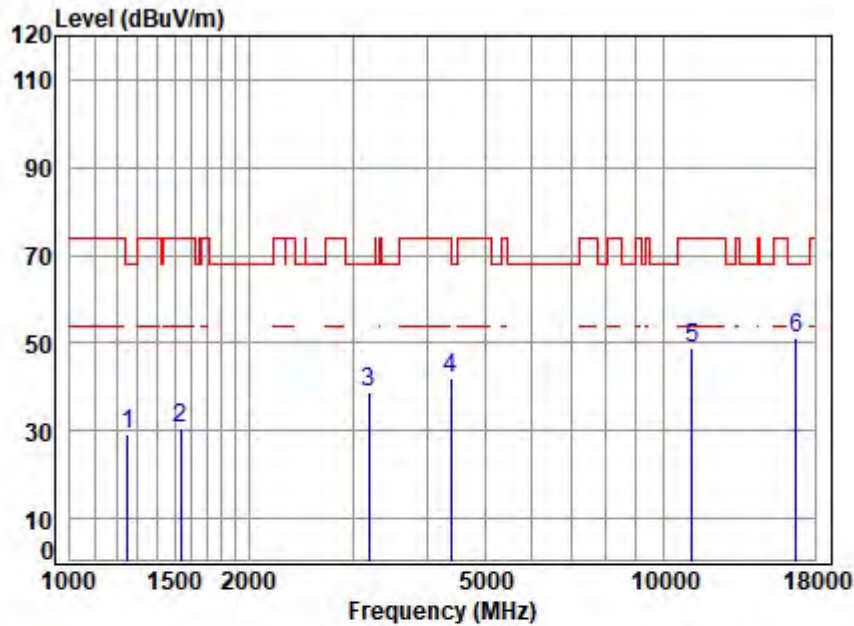


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5500 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	3.73	24.88	38.35	38.77	29.03	68.20	-39.17	peak
2	1583.392	4.18	26.87	38.40	38.72	31.37	74.00	-42.63	peak
3	3396.098	6.10	32.38	36.12	36.56	38.92	68.20	-29.28	peak
4	4405.090	7.06	34.74	35.79	35.74	41.75	68.20	-26.45	peak
5	11000.000	12.90	37.50	37.84	36.29	48.85	74.00	-25.15	peak
6	16500.000	14.47	42.10	37.47	29.36	48.46	68.20	-19.74	peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

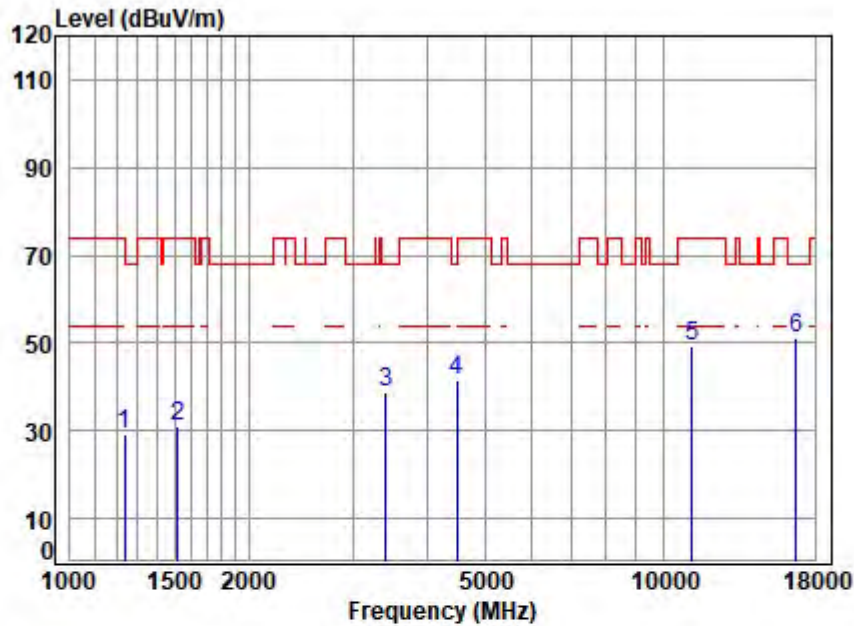


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5580 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	38.72	29.12	68.20	-39.08	peak
2	1538.281	4.12	26.95	38.39	37.77	30.45	74.00	-43.55	peak
3	3186.869	5.83	32.79	36.13	36.45	38.94	68.20	-29.26	peak
4	4379.699	7.04	34.64	35.81	35.98	41.85	74.00	-32.15	peak
5	11160.000	12.93	37.62	37.79	36.19	48.95	74.00	-25.05	peak
6	16740.000	14.51	42.78	37.49	31.38	51.18	68.20	-17.02	peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

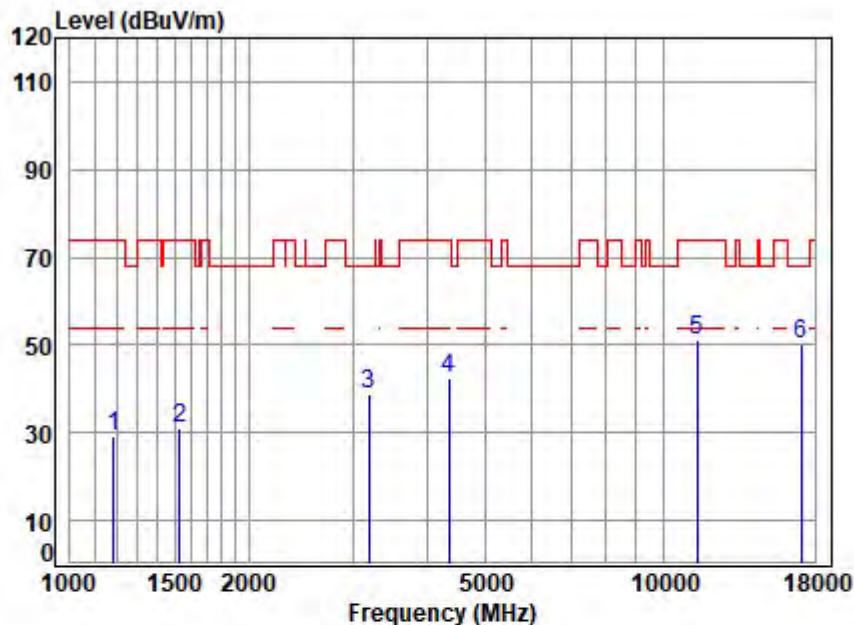


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5580 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.64	24.89	38.35	39.21	29.39	74.00	-44.61	peak
2	1520.598	4.09	26.88	38.39	38.62	31.20	74.00	-42.80	peak
3	3405.929	6.11	32.33	36.12	36.63	38.95	68.20	-29.25	peak
4	4482.150	7.11	33.81	35.74	36.34	41.52	68.20	-26.68	peak
5	11160.000	12.93	37.62	37.79	36.55	49.31	74.00	-24.69	peak
6	16740.000	14.51	42.78	37.49	31.11	50.91	68.20	-17.29	peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

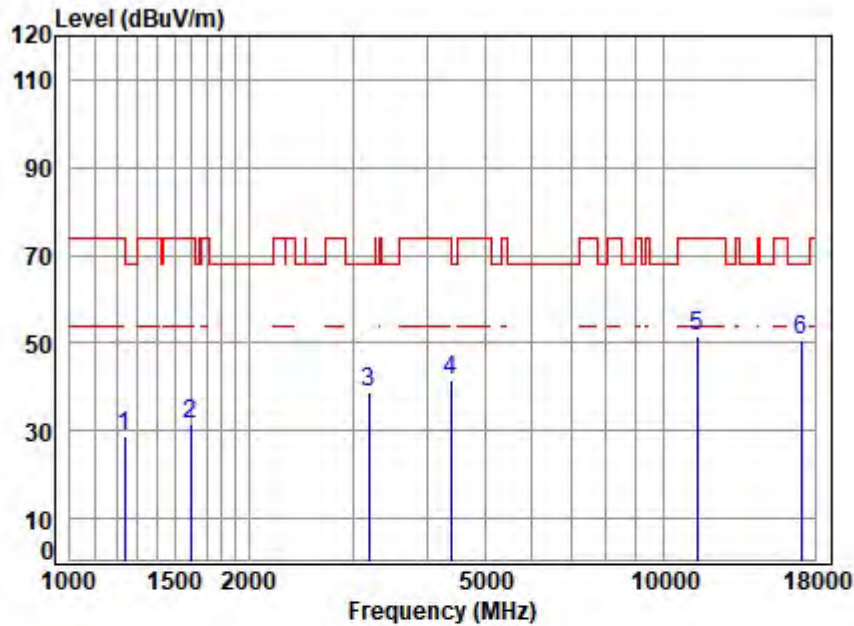


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5700 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	3.56	24.26	38.34	39.87	29.35	74.00	-44.65	peak
2	1529.414	4.10	26.92	38.39	38.42	31.05	74.00	-42.95	peak
3	3186.869	5.83	32.79	36.13	36.51	39.00	68.20	-29.20	peak
4	4354.454	7.03	34.44	35.83	36.83	42.47	74.00	-31.53	peak
5	11400.000	12.98	37.70	37.72	38.28	51.24	74.00	-22.76	peak
6	17100.000	14.62	43.10	37.53	29.91	50.10	68.20	-18.10	peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

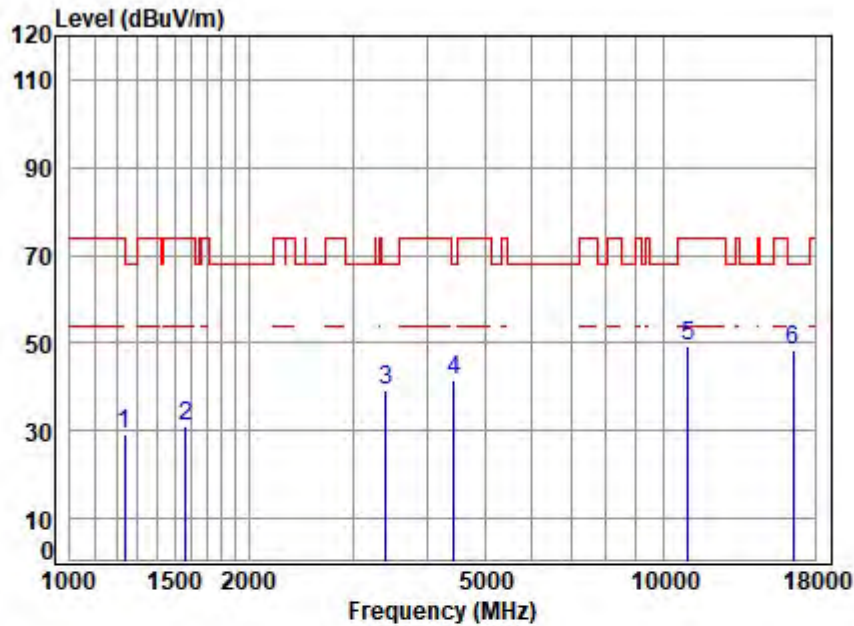


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5700 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.64	24.89	38.35	38.74	28.92	74.00	-45.08	peak
2	1597.181	4.20	26.81	38.40	38.93	31.54	74.00	-42.46	peak
3	3186.869	5.83	32.79	36.13	36.10	38.59	68.20	-29.61	peak
4	4392.376	7.05	34.74	35.80	35.50	41.49	74.00	-32.51	peak
5	11400.000	12.98	37.70	37.72	38.61	51.57	74.00	-22.43	peak
6	17100.000	14.62	43.10	37.53	30.60	50.79	68.20	-17.41	peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

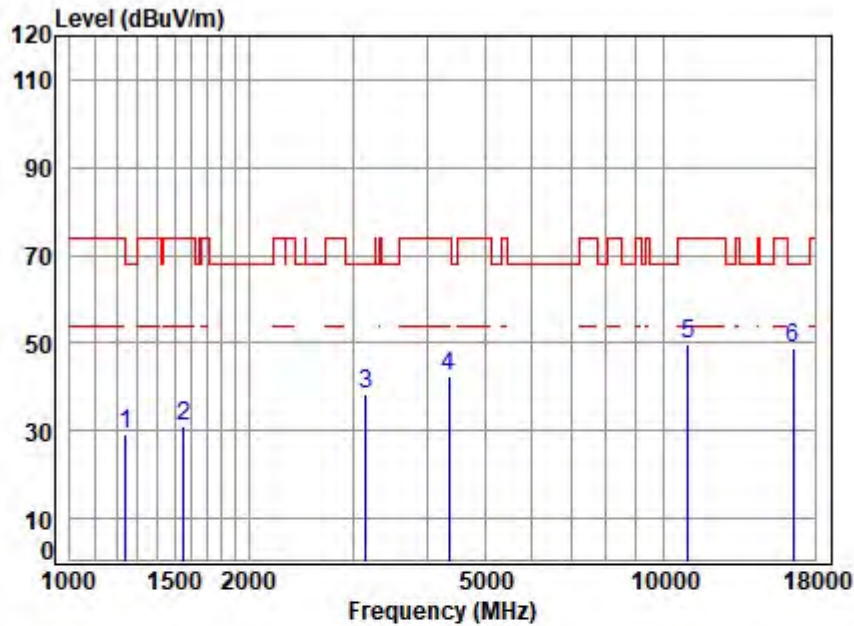


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5510 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	3.65	24.94	38.35	39.17	29.41	74.00	-44.59	peak
2	1565.191	4.15	26.94	38.40	38.13	30.82	74.00	-43.18	peak
3	3405.929	6.11	32.33	36.12	36.96	39.28	68.20	-28.92	peak
4	4443.453	7.09	34.28	35.77	35.98	41.58	68.20	-26.62	peak
5	11020.000	12.90	37.50	37.83	36.54	49.11	74.00	-24.89	peak
6	q16530.000	14.48	42.16	37.47	29.17	48.34	68.20	-19.86	peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

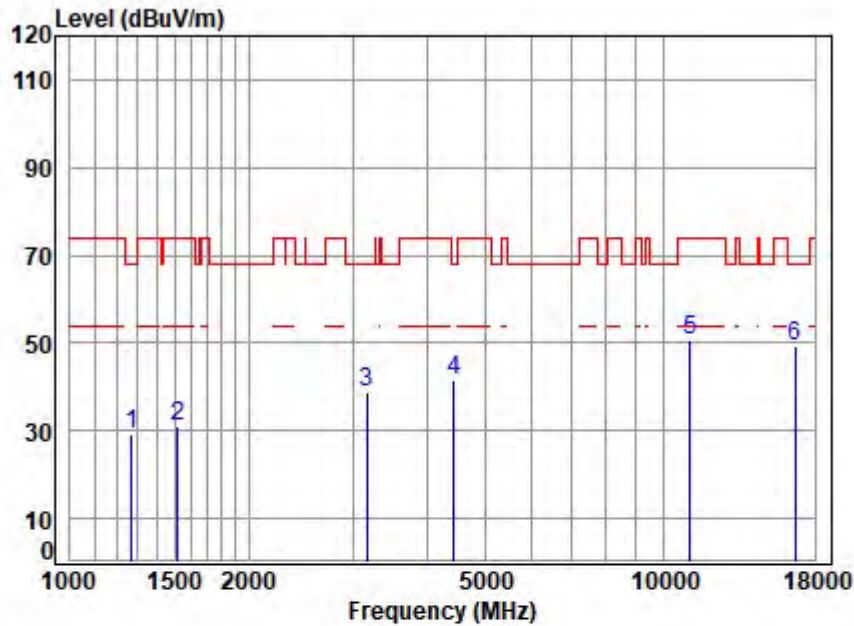


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5510 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	3.66	24.99	38.35	39.01	29.31	68.20	-38.89	peak
2	1556.169	4.14	26.98	38.40	38.48	31.20	74.00	-42.80	peak
3	3150.237	5.78	32.50	36.13	36.35	38.50	68.20	-29.70	peak
4	4354.454	7.03	34.44	35.83	36.94	42.58	74.00	-31.42	peak
5	11020.000	12.90	37.50	37.83	37.33	49.90	74.00	-24.10	peak
6	q16530.000	14.48	42.16	37.47	29.64	48.81	68.20	-19.39	peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5550 TX RSE
Note : 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	3.71	24.97	38.35	38.80	29.13	68.20	-39.07	peak
2	1520.598	4.09	26.88	38.39	38.37	30.95	74.00	-43.05	peak
3	3159.355	5.80	32.57	36.13	36.63	38.87	68.20	-29.33	peak
4	4430.628	7.08	34.43	35.77	35.99	41.73	68.20	-26.47	peak
5	11100.000	12.92	37.50	37.81	37.85	50.46	74.00	-23.54	peak
6	16650.000	14.50	42.50	37.48	29.80	49.32	68.20	-18.88	peak

