



TEST REPORT

Application No.: SZEM2010010640CR
Applicant: Dspread Technology (Beijing) Inc
Address of Applicant: Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, 100027 China
Manufacturer: Dspread Technology (Beijing) Inc
Address of Manufacturer: Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, 100027 China
Factory: Sichuan DOOV PTY Co., Ltd.
Address of Factory: Duo Wei Yun Gu Industrial Demonstration Park, No.35, west section of Gangyuan Road, Guoxing Avenue, Lingang Economic Development Zone, Yibin City, Sichuan Province

Equipment Under Test (EUT):

EUT Name: Smart PoS
Model No.: D20
Trade mark: Dspread
FCC ID: 2AGQ6-D20
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2020-10-26
Date of Test: 2020-10-27 to 2020-12-14
Date of Issue: 2020-12-18

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-18		Original

Authorized for issue by:			
			
		Calvin Weng/Project Engineer	
			
		Eric Fu/Reviewer	

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

3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	6
4.1 DETAILS OF E.U.T.	6
4.2 CABLE	6
4.3 DESCRIPTION OF SUPPORT UNITS	6
4.4 MEASUREMENT UNCERTAINTY	7
4.5 TEST LOCATION.....	8
4.6 TEST FACILITY.....	8
4.7 DEVIATION FROM STANDARDS.....	8
4.8 ABNORMALITIES FROM STANDARD CONDITIONS	8
5 EQUIPMENT LIST.....	9
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	15
6.1 ANTENNA REQUIREMENT	15
6.1.1 Test Requirement:	15
6.1.2 Conclusion	15
6.2 TRANSMISSION IN THE ABSENCE OF DATA.....	16
6.2.1 Test Requirement:	16
6.2.2 Conclusion	16
7 RADIO SPECTRUM MATTER TEST RESULTS.....	17
7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ).....	17
7.1.1 E.U.T. Operation	17
7.1.2 Test Mode Description	17
7.1.3 Test Setup Diagram.....	18
7.1.4 Measurement Procedure and Data.....	18
7.2 DUTY CYCLE	21
7.2.1 E.U.T. Operation	21
7.2.2 Test Mode Description	21
7.2.3 Test Setup Diagram.....	22
7.2.4 Measurement Procedure and Data.....	22
7.3 99% BANDWIDTH	23
7.3.1 E.U.T. Operation	23
7.3.2 Test Mode Description	23
7.3.3 Test Setup Diagram.....	24
7.3.4 Measurement Procedure and Data.....	24
7.4 26dB EMISSION BANDWIDTH	25
7.4.1 E.U.T. Operation	25
7.4.2 Test Mode Description	25
7.4.3 Test Setup Diagram.....	26
7.4.4 Measurement Procedure and Data.....	26
7.5 MINIMUM 6 DB BANDWIDTH (5.725-5.85 GHZ BAND)	27



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7.5.1	E.U.T. Operation	27
7.5.2	Test Mode Description	27
7.5.3	Test Setup Diagram	27
7.5.4	Measurement Procedure and Data	28
7.6	MAXIMUM CONDUCTED OUTPUT POWER	29
7.6.1	E.U.T. Operation	29
7.6.2	Test Mode Description	29
7.6.3	Test Setup Diagram	30
7.6.4	Measurement Procedure and Data	30
7.7	PEAK POWER SPECTRUM DENSITY	31
7.7.1	E.U.T. Operation	31
7.7.2	Test Mode Description	31
7.7.3	Test Setup Diagram	32
7.7.4	Measurement Procedure and Data	32
7.8	RADIATED EMISSIONS	33
7.8.1	E.U.T. Operation	33
7.8.2	Test Mode Description	34
7.8.3	Test Setup Diagram	35
7.8.4	Measurement Procedure and Data	36
7.9	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	123
7.9.1	E.U.T. Operation	123
7.9.2	Test Mode Description	124
7.9.3	Test Setup Diagram	125
7.9.4	Measurement Procedure and Data	126
7.10	FREQUENCY STABILITY	237
7.10.1	E.U.T. Operation	237
7.10.2	Test Mode Description	237
7.10.3	Test Setup Diagram	238
7.10.4	Measurement Procedure and Data	238
7.11	NON-OCCUPANCY PERIOD	239
7.11.1	E.U.T. Operation	239
7.11.2	Test Mode Description	239
7.11.3	Test Setup Diagram	240
7.11.4	Measurement Procedure and Data	241
7.12	CHANNEL MOVE TIME	242
7.12.1	E.U.T. Operation	242
7.12.2	Test Mode Description	242
7.12.3	Test Setup Diagram	243
7.12.4	Measurement Procedure and Data	244
7.13	CHANNEL CLOSING TRANSMISSION TIME	245
7.13.1	E.U.T. Operation	245
7.13.2	Test Mode Description	245
7.13.3	Test Setup Diagram	246
7.13.4	Measurement Procedure and Data	247
8	TEST SETUP PHOTO	248
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	248
10	APPENDIX	249-364



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4 General Information

4.1 Details of E.U.T.

Rated voltage:	DC3.8V
Power adapter:	Adapter M/N: TPA-46B050100UU Adapter input: AC100-240V, 50/60Hz, 0.2A Adapter output: DC5V/1A
Battery:	DC3.8V li-ion battery(2450mAh)
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-2A: 5290MHz; U-NII-3: 5775MHz
Modulation Type:	802.11a: 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(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	2.45dBi for band 1, 2.53dBi for band 2A, 1.56dBi for band 3
TPC Function:	Without TPC function
DFS Function:	Slave without Radar detection

4.2 Cable

Cable	Length	Shielding	Core
USB cable	1m	Shielded	Non-Core

4.3 Description of Support Units

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

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
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	$\pm 4.5\text{dB}$ (Below 1GHz); $\pm 4.8\text{dB}$ (Above 1GHz)
Radiated Emissions which fall in the restricted bands	$\pm 4.5\text{dB}$ (below 1GHz); $\pm 4.8\text{dB}$ (above 1GHz);
Frequency Stability	$\pm 7.25 \times 10^{-8}$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{cisp}} \text{ (CISPR Uncertainty)}$, 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.	

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

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No tests were sub-contracted.

4.6 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**

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. 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: CN1178**

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

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

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

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

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	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23
Switch	WEINSCHTEL ENGINEERING	1506A	SEN009-01	N/A	N/A
Matching Pad	anzac	PT-75	SEN009-02	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20



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26dB Emission bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

Maximum Conducted output power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

Peak Power spectrum density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20



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Radiated Emissions Above 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09

Radiated Emissions Below 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09



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Non-occupancy period					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR433	SEM001-11	2019-06-13	2022-06-12
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2020-04-09	2021-04-08
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2020-03-23	2021-03-22
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2020-03-23	2021-03-22
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2020-09-23	2021-09-22
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2020-03-23	2021-03-22
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2020-04-09	2021-04-08
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2020-04-09	2021-04-08
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2020-03-23	2021-03-22
Power Sensor	KEYSIGHT	U2021XA	SEM009-14	2020-03-23	2021-03-22
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2020-03-23	2021-03-22
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2020-03-23	2021-03-22
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24
Universal Radio Communication Tester	Rohde&Schwarz	CMW 500	SEM010-03	2020-04-01	2021-03-31
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2020-07-10	2021-07-09



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Report No.: SZEM201001064005

Page: 13 of 364

Channel Move Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR433	SEM001-11	2019-06-13	2022-06-12
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2020-04-09	2021-04-08
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2020-03-23	2021-03-22
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2020-03-23	2021-03-22
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2020-09-23	2021-09-22
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2020-03-23	2021-03-22
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2020-04-09	2021-04-08
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2020-04-09	2021-04-08
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2020-03-23	2021-03-22
Power Sensor	KEYSIGHT	U2021XA	SEM009-14	2020-03-23	2021-03-22
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2020-03-23	2021-03-22
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2020-03-23	2021-03-22
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24
Universal Radio Communication Tester	Rohde&Schwarz	CMW 500	SEM010-03	2020-04-01	2021-03-31
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2020-07-10	2021-07-09



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Channel Closing Transmission Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR433	SEM001-11	2019-06-13	2022-06-12
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2020-04-09	2021-04-08
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2020-03-23	2021-03-22
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2020-03-23	2021-03-22
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2020-09-23	2021-09-22
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2020-03-23	2021-03-22
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2020-04-09	2021-04-08
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2020-04-09	2021-04-08
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2020-03-23	2021-03-22
Power Sensor	KEYSIGHT	U2021XA	SEM009-14	2020-03-23	2021-03-22
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2020-03-23	2021-03-22
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2020-03-23	2021-03-22
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24
Universal Radio Communication Tester	Rohde&Schwarz	CMW 500	SEM010-03	2020-04-01	2021-03-31
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407

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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain is 2.45dBi for band 1, 2.53dBi for band 2A, 1.56dBi for band 3

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

6.2.2 Conclusion

standard Requirement:

The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signalling information or the use of repetitive codes where required by the technology.

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.

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 & 15.407 b(6)

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: 23.5 °C

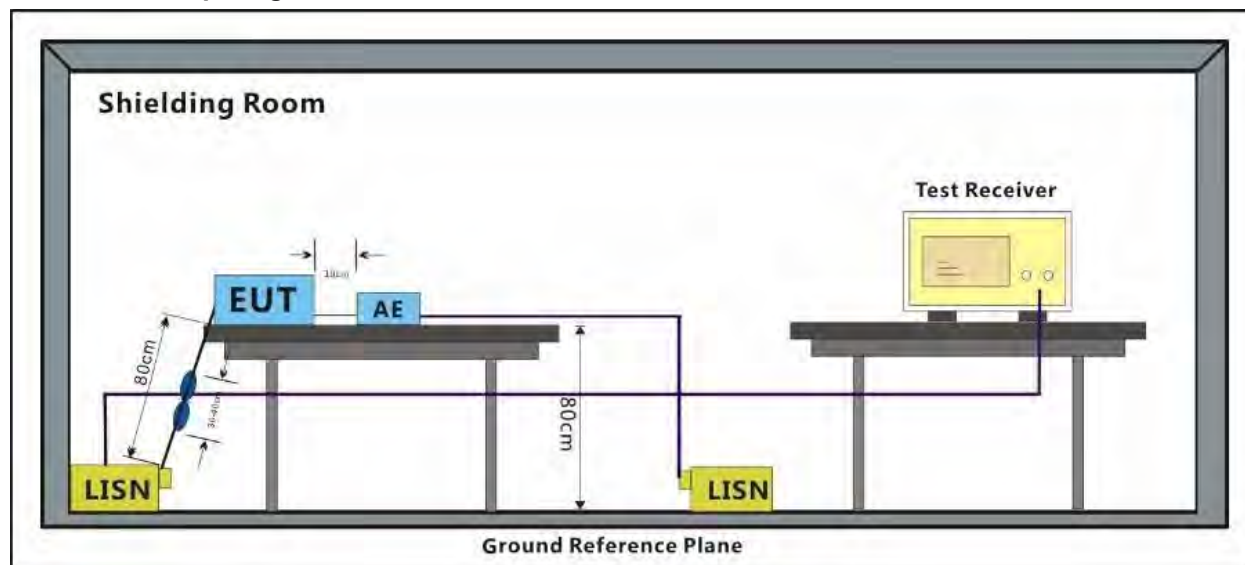
Humidity: 54.8 % RH

Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	12	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	14	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram

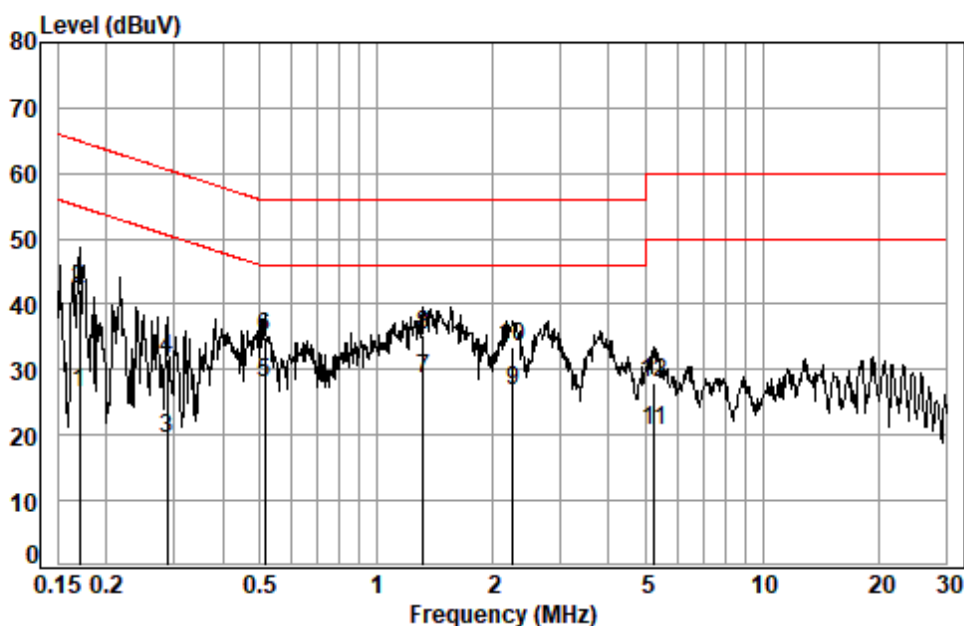


7.1.4 Measurement Procedure and Data

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

Test Mode: 11; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 10640CR

Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1703	0.02	9.63	16.71	26.36	54.94	-28.58	Average
2	0.1703	0.02	9.63	32.58	42.23	64.94	-22.71	QP
3	0.2878	0.04	9.66	9.85	19.55	50.59	-31.04	Average
4	0.2878	0.04	9.66	22.06	31.76	60.59	-28.83	QP
5	0.5155	0.06	9.69	18.32	28.07	46.00	-17.93	Average
6	0.5155	0.06	9.69	25.11	34.86	56.00	-21.14	QP
7	1.3238	0.12	9.68	18.72	28.52	46.00	-17.48	Average
8	1.3238	0.12	9.68	25.48	35.28	56.00	-20.72	QP
9	2.2606	0.16	9.70	16.79	26.65	46.00	-19.35	Average
10	2.2606	0.16	9.70	23.62	33.48	56.00	-22.52	QP
11	5.2491	0.17	9.78	10.63	20.58	50.00	-29.42	Average
12	5.2491	0.17	9.78	18.08	28.03	60.00	-31.97	QP



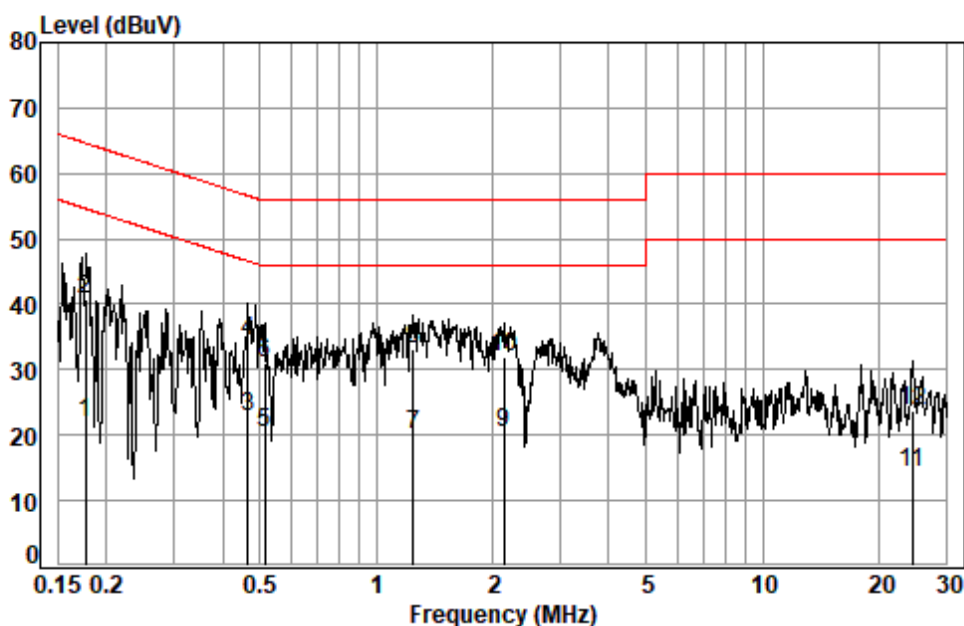
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Test Mode: 11; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 10640CR

Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1768	0.02	9.63	12.20	21.85	54.64	-32.79	Average
2	0.1768	0.02	9.63	31.02	40.67	64.64	-23.97	QP
3	0.4661	0.06	9.67	13.08	22.81	46.58	-23.77	Average
4	0.4661	0.06	9.67	24.58	34.31	56.58	-22.27	QP
5	0.5155	0.06	9.67	10.74	20.47	46.00	-25.53	Average
6	0.5155	0.06	9.67	21.18	30.91	56.00	-25.09	QP
7	1.2488	0.11	9.67	10.34	20.12	46.00	-25.88	Average
8	1.2488	0.11	9.67	23.35	33.13	56.00	-22.87	QP
9	2.1439	0.16	9.68	10.49	20.33	46.00	-25.67	Average
10	2.1439	0.16	9.68	22.22	32.06	56.00	-23.94	QP
11	24.3995	0.26	10.04	3.89	14.19	50.00	-35.81	Average
12	24.3995	0.26	10.04	13.37	23.67	60.00	-36.33	QP

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

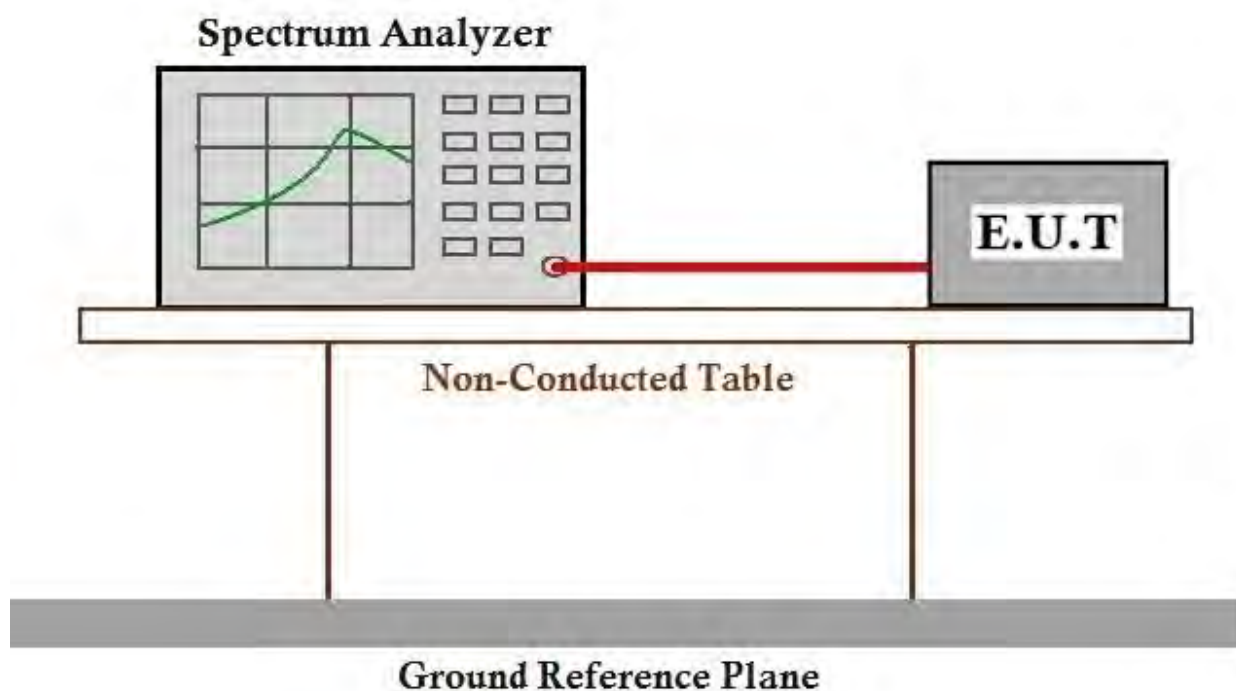
Operating Environment:

Temperature: 23.2 °C Humidity: 54.9 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	12	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	14	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details

7.3 99% Bandwidth

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

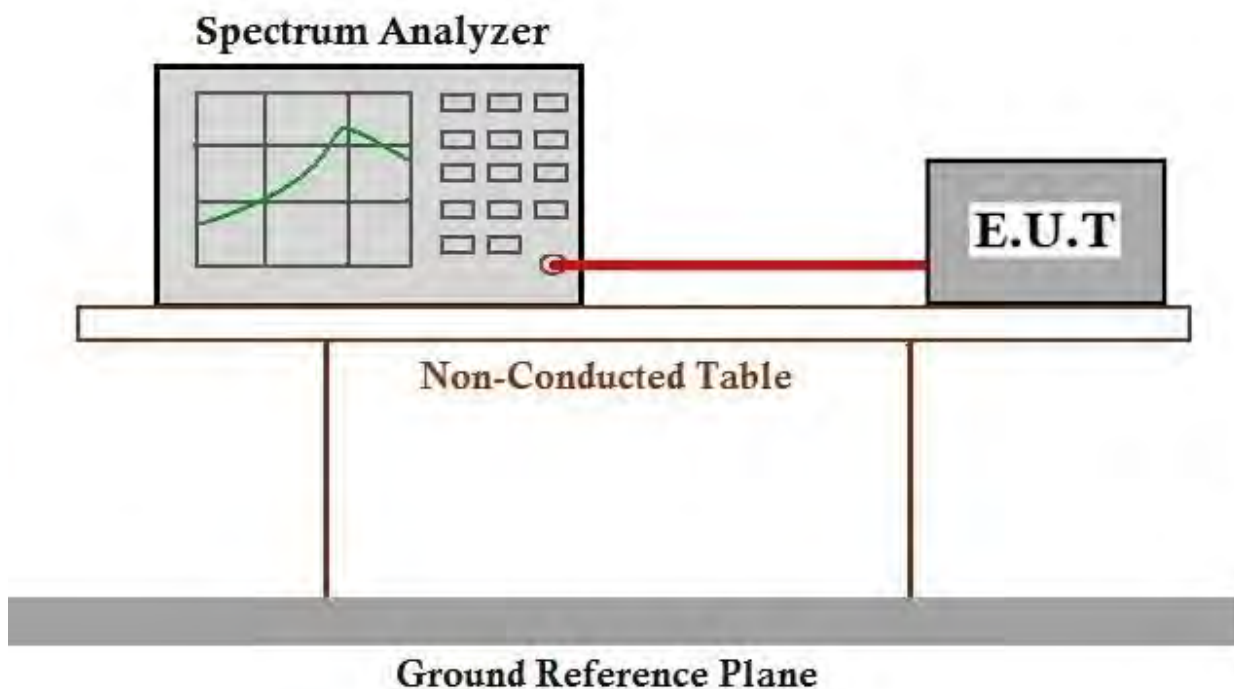
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 23.2 °C Humidity: 54.9 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	12	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	14	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer To Appendix For Details

7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

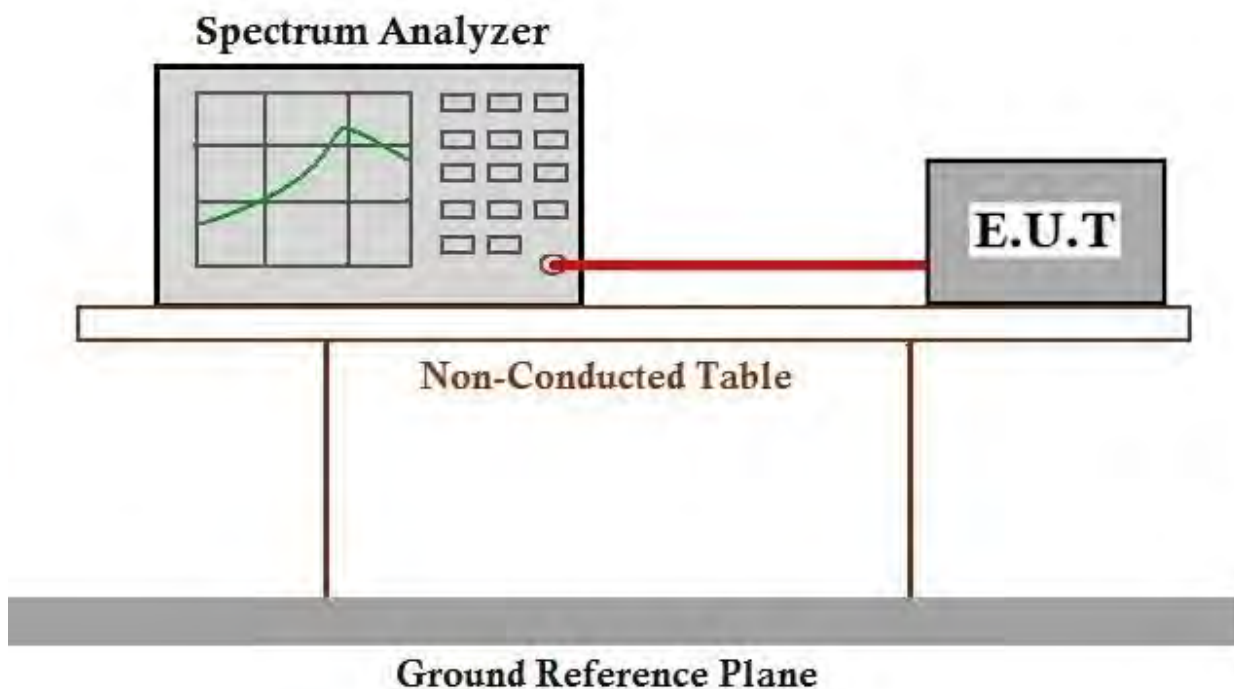
Operating Environment:

Temperature: 23.2 °C Humidity: 54.9 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	12	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer To Appendix For Details

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

Test Requirement 47 CFR Part 15, Subpart C 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: 23.2 °C

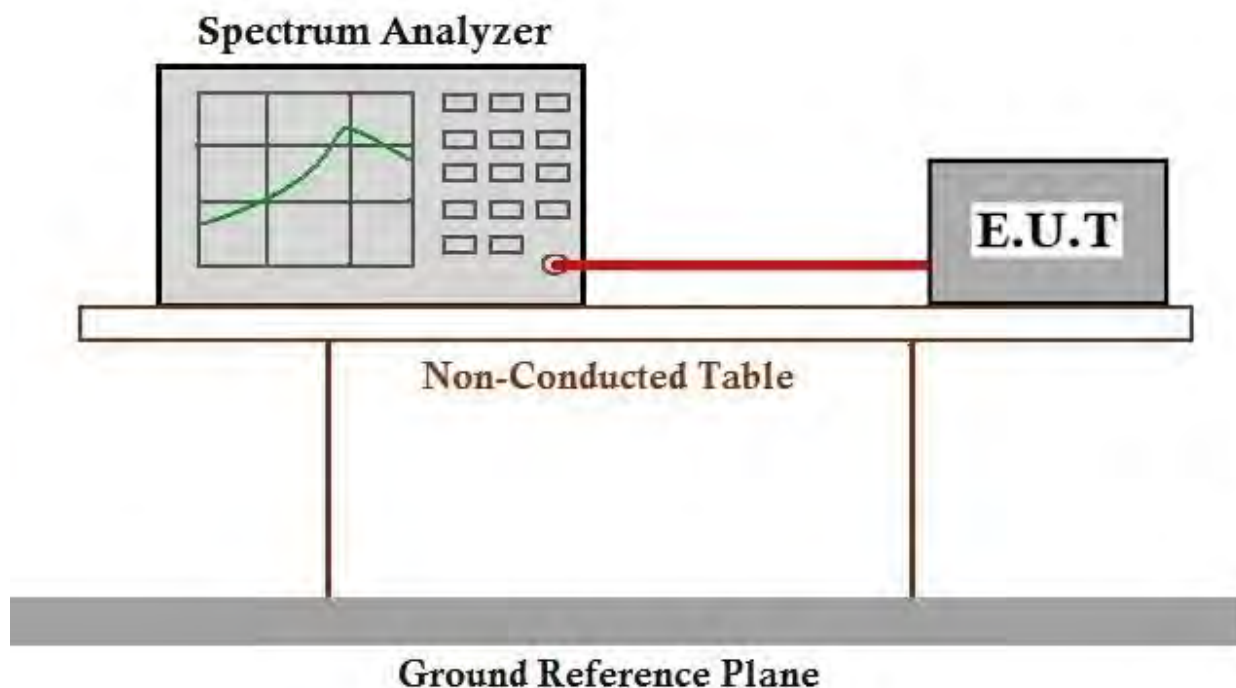
Humidity: 54.9 % RH

Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram





7.5.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 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) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 54.9 % RH

Atmospheric Pressure: 1015 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	12	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	14	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



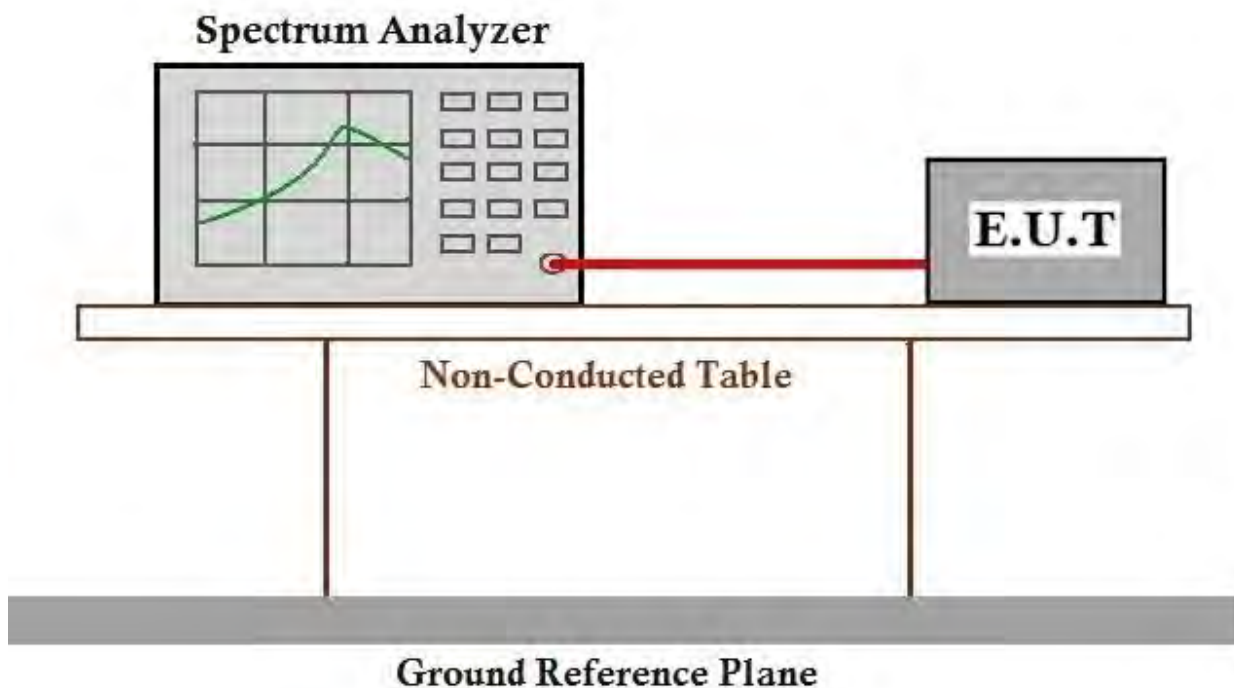
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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer To Appendix For Details

7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 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: 23.2 °C

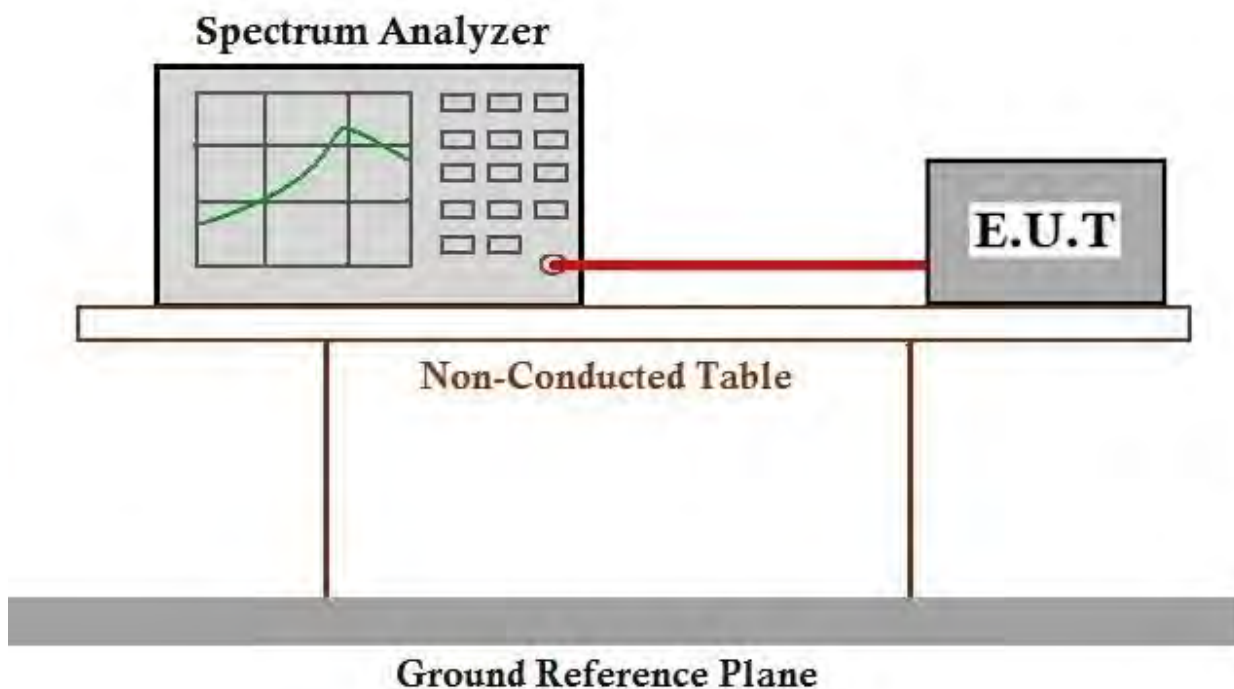
Humidity: 54.9 % RH

Atmospheric Pressure: 1015 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	12	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	14	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer To Appendix For Details

7.8 Radiated Emissions

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

Test Method: KDB 789033 D02 II G

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
Above 960	500	3

* Frequency in CFR 15.205 Restricted Band.

Note: Frequency in non-Restricted Band:

(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.

(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.

(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.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(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.

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.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 47 % RH Atmospheric Pressure: 1015 mbar



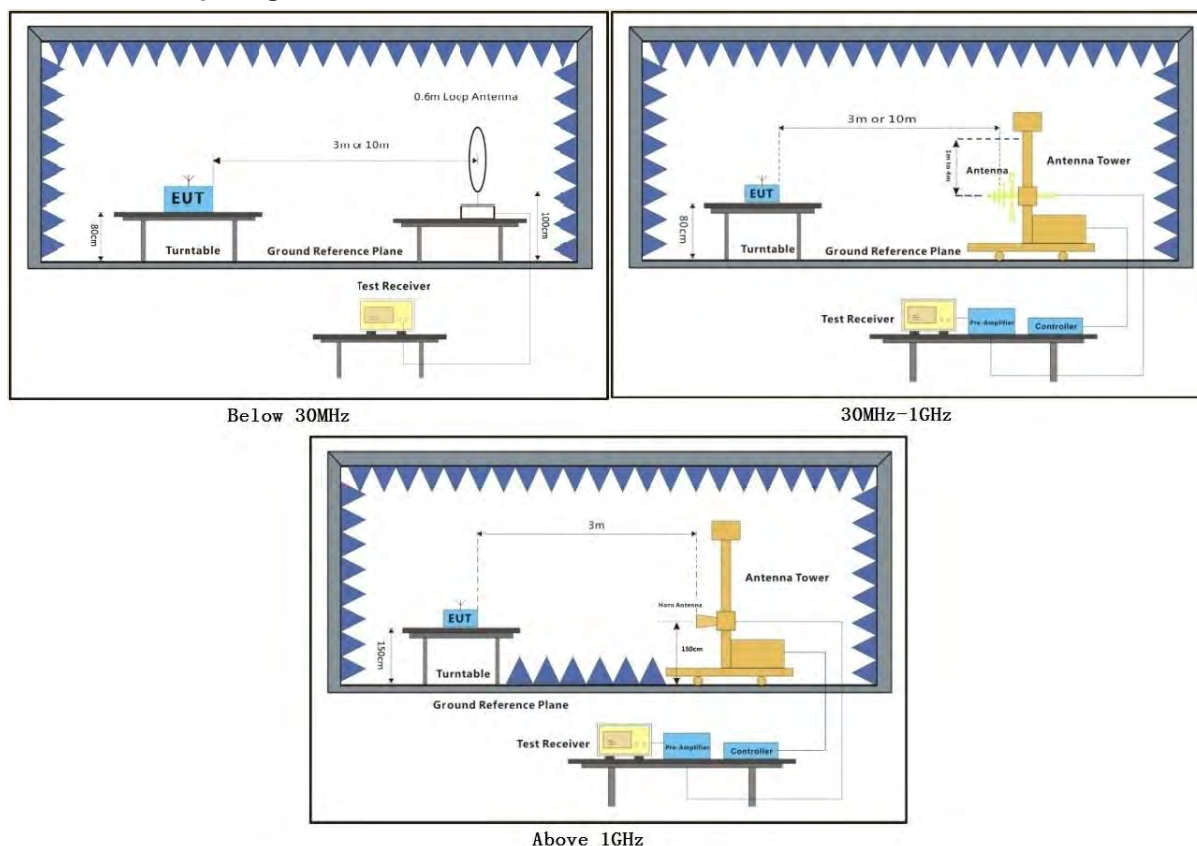
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7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	12	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	14	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

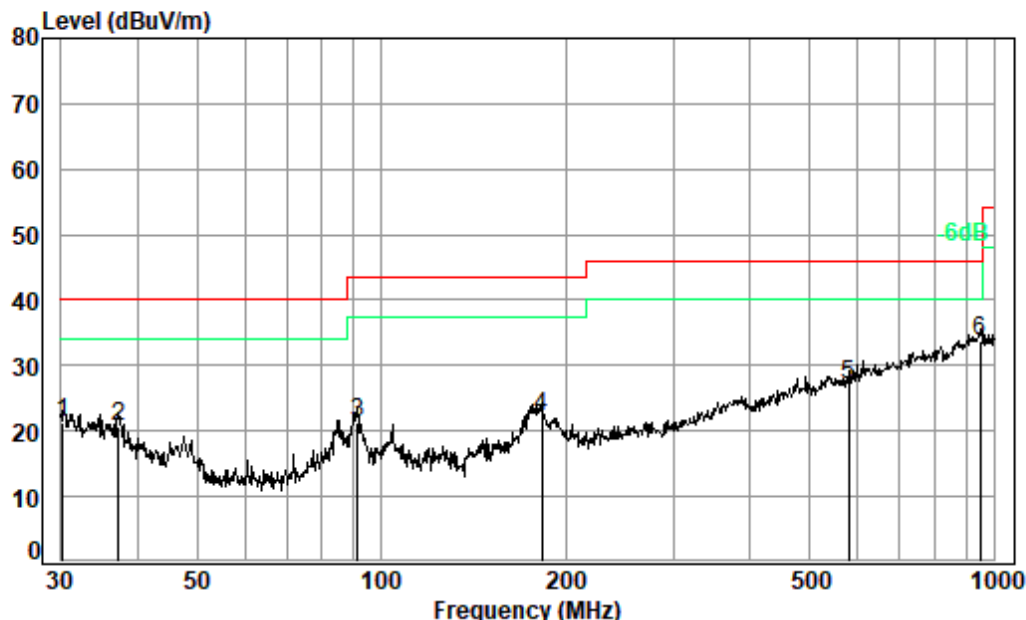
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. 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.
- j. 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 40GHz, the disturbance above 18GHz and 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. 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.

Below 1GHz:

Test Mode: 12; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 10640CR

Test Mode: 12

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.21	0.60	22.84	27.73	25.54	21.25	40.00	-18.75	QP
2	37.29	0.68	19.38	27.71	28.33	20.68	40.00	-19.32	QP
3	91.49	1.27	13.40	27.62	34.31	21.36	43.50	-22.14	QP
4	182.56	1.19	15.43	27.20	32.86	22.28	43.50	-21.22	QP
5	578.67	2.66	25.09	28.06	27.38	27.07	46.00	-18.93	QP
6 pp	948.76	3.55	29.33	26.91	27.68	33.65	46.00	-12.35	QP



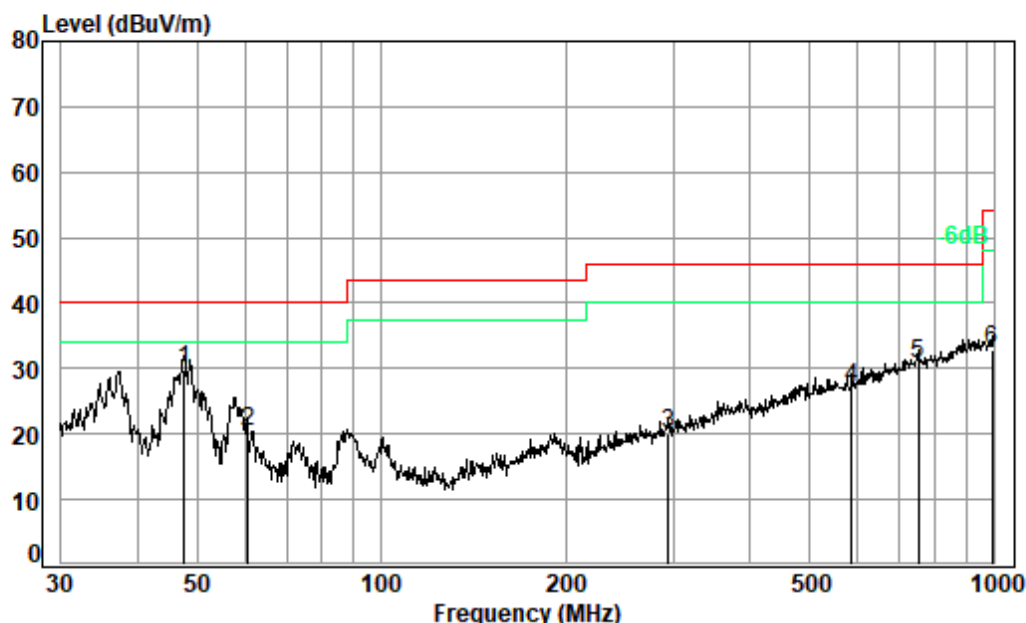
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Test Mode: 12; Polarity: Vertical



Condition: 3m VERTICAL

Job No. : 10640CR

Test Mode: 12

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	47.66	0.70	14.77	27.69	42.05	29.83	40.00 -10.17 QP
2		60.49	0.80	12.85	27.66	34.45	20.44	40.00 -19.56 QP
3		294.11	1.96	18.63	26.88	26.38	20.09	46.00 -25.91 QP
4		586.84	2.68	25.44	28.09	27.18	27.21	46.00 -18.79 QP
5		752.74	3.12	27.94	27.81	27.49	30.74	46.00 -15.26 QP
6		993.01	3.59	29.70	26.69	26.23	32.83	54.00 -21.17 QP



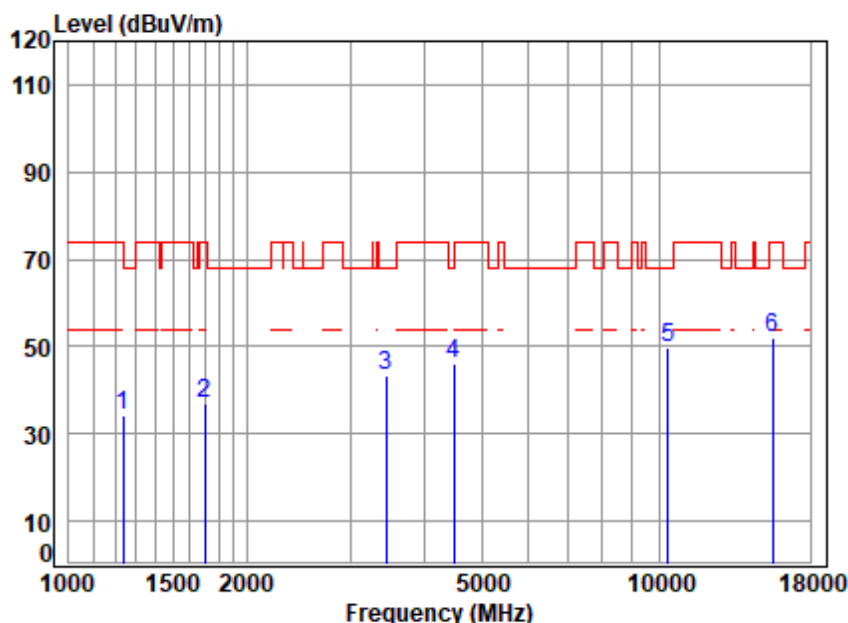
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Above 1GHz:

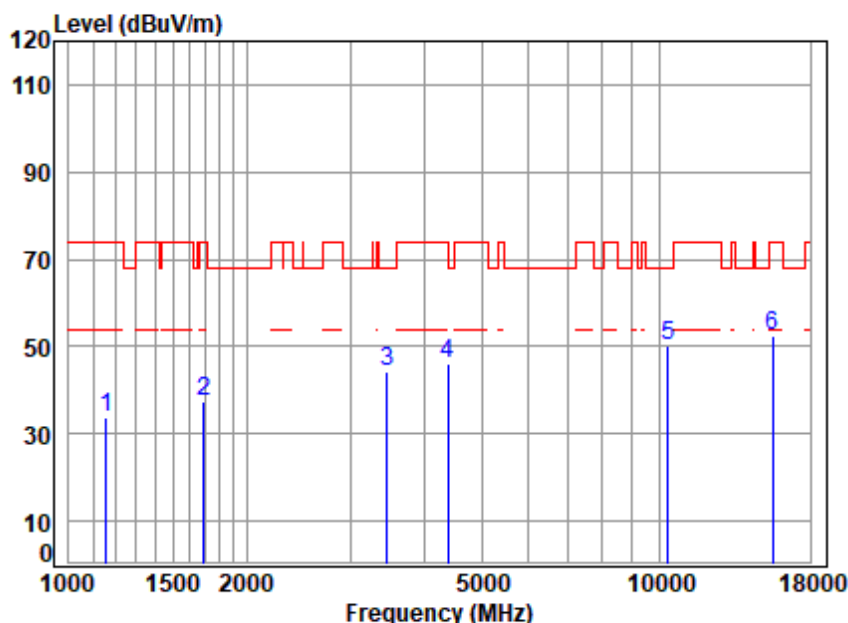
Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1234.909	2.83	24.74	40.31	46.95	34.21	74.00	-39.79	peak
2	1697.129	3.43	26.66	40.63	47.33	36.79	74.00	-37.21	peak
3	3445.535	5.45	31.62	41.66	48.11	43.52	68.20	-24.68	peak
4	4482.150	6.74	33.57	42.54	48.51	46.28	68.20	-21.92	peak
5	10360.000	10.57	37.76	38.17	39.73	49.89	68.20	-18.31	peak
6	15540.000	13.97	40.72	40.58	37.77	51.88	74.00	-22.12	peak

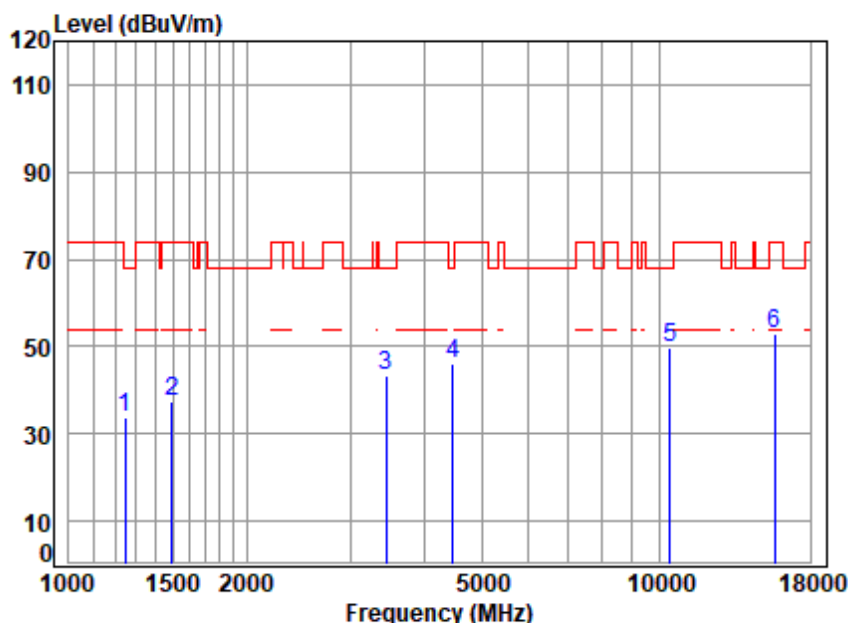
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
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	1155.483	2.68	24.38	40.24	46.75	33.57	74.00	-40.43	peak
2	1692.231	3.42	26.64	40.63	48.11	37.54	74.00	-36.46	peak
3	3465.510	5.48	31.65	41.68	48.83	44.28	68.20	-23.92	peak
4	4379.699	6.65	33.39	42.46	48.30	45.88	74.00	-28.12	peak
5	10360.000	10.57	37.76	38.17	39.96	50.12	68.20	-18.08	peak
6	15540.000	13.97	40.72	40.58	38.38	52.49	74.00	-21.51	peak

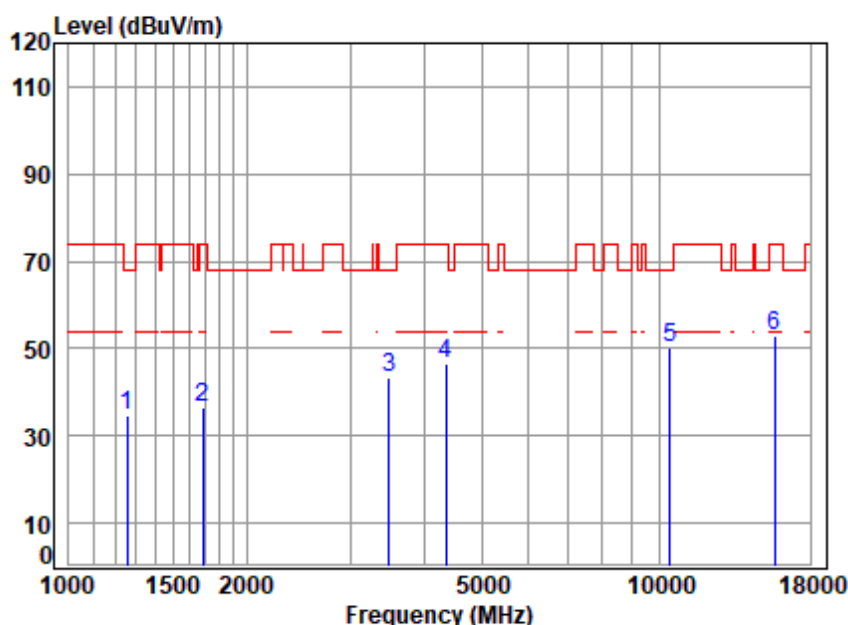
Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5220 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	1245.663	2.85	24.79	40.32	46.48	33.80	68.20	-34.40	peak
2	1494.455	3.25	25.78	40.50	48.84	37.37	74.00	-36.63	peak
3	3445.535	5.45	31.62	41.66	47.82	43.23	68.20	-24.97	peak
4	4469.214	6.73	33.55	42.53	48.52	46.27	68.20	-21.93	peak
5	10440.000	10.55	37.72	38.21	39.88	49.94	68.20	-18.26	peak
6	15660.000	14.02	40.80	40.58	38.58	52.82	74.00	-21.18	peak

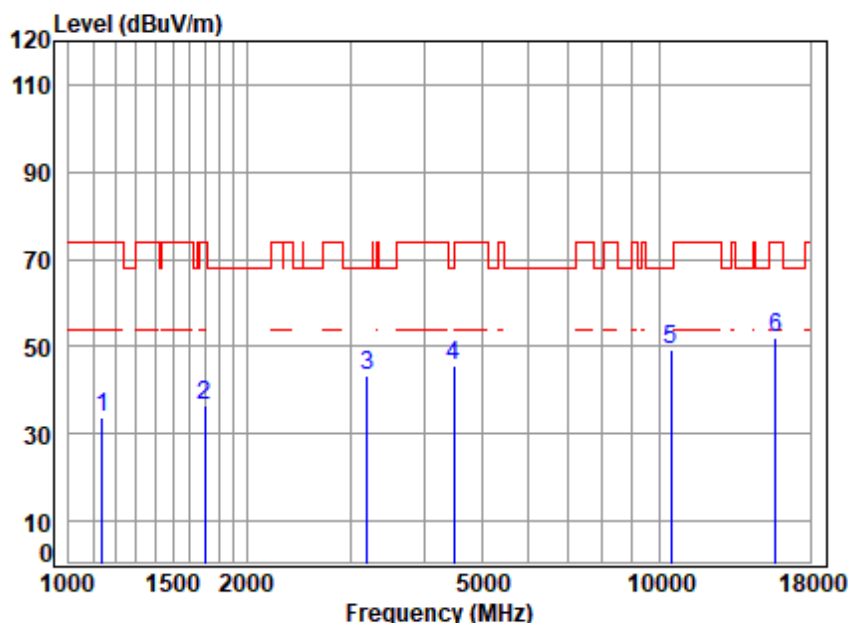
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5220 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	2.87	24.84	40.33	47.42	34.80	68.20	-33.40	peak
2	1687.347	3.42	26.62	40.62	47.25	36.67	74.00	-37.33	peak
3	3485.601	5.50	31.68	41.70	47.67	43.15	68.20	-25.05	peak
4	4354.454	6.63	33.35	42.44	49.02	46.56	74.00	-27.44	peak
5	10440.000	10.55	37.72	38.21	40.21	50.27	68.20	-17.93	peak
6	15660.000	14.02	40.80	40.58	38.75	52.99	74.00	-21.01	peak

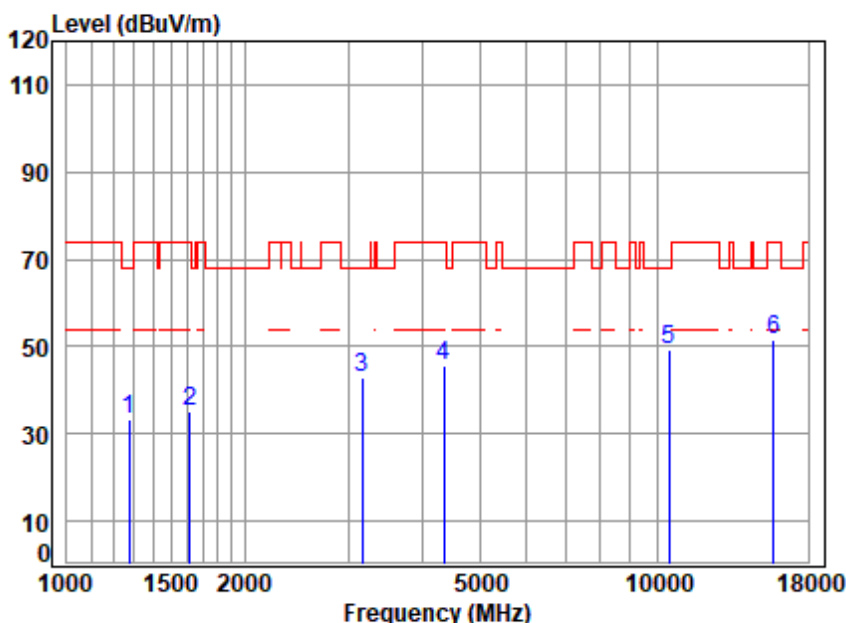
Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1138.904	2.65	24.31	40.23	46.81	33.54	74.00	-40.46	peak
2	1697.129	3.43	26.66	40.63	47.03	36.49	74.00	-37.51	peak
3	3205.345	5.14	31.24	41.42	48.33	43.29	68.20	-24.91	peak
4	4495.125	6.76	33.59	42.55	47.66	45.46	68.20	-22.74	peak
5	10480.000	10.54	37.71	38.23	39.14	49.16	68.20	-19.04	peak
6	15720.000	14.04	40.83	40.57	37.55	51.85	74.00	-22.15	peak

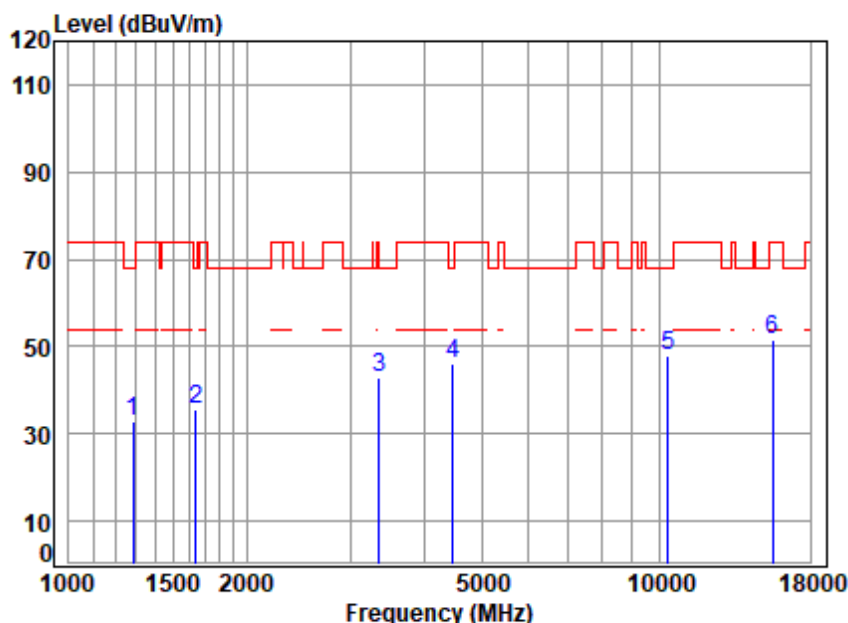
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
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	1274.802	2.90	24.92	40.34	45.93	33.41	68.20	-34.79	peak
2	1615.754	3.36	26.32	40.58	45.98	35.08	74.00	-38.92	peak
3	3168.500	5.09	31.18	41.38	48.20	43.09	68.20	-25.11	peak
4	4354.454	6.63	33.35	42.44	48.09	45.63	74.00	-28.37	peak
5	10480.000	10.54	37.71	38.23	39.36	49.38	68.20	-18.82	peak
6	15720.000	14.04	40.83	40.57	37.29	51.59	74.00	-22.41	peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1285.904	2.92	24.96	40.35	45.30	32.83	68.20	-35.37	peak
2	1639.274	3.38	26.42	40.59	46.50	35.71	68.20	-32.49	peak
3	3357.061	5.34	31.48	41.57	47.66	42.91	74.00	-31.09	peak
4	4469.214	6.73	33.55	42.53	48.38	46.13	68.20	-22.07	peak
5	10360.000	10.57	37.76	38.17	37.67	47.83	68.20	-20.37	peak
6	15540.000	13.97	40.72	40.58	37.29	51.40	74.00	-22.60	peak



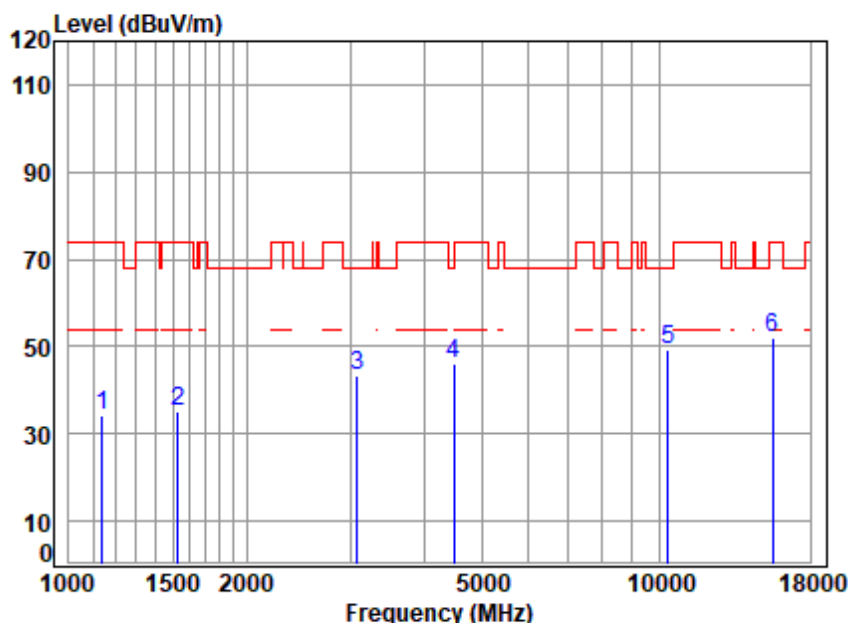
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 10640CR

Mode : 5180 TX RSE

Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.31	40.23	47.45	34.18	74.00	-39.82	peak
2	1529.414	3.29	25.94	40.53	46.65	35.35	74.00	-38.65	peak
3	3078.229	4.97	31.03	41.29	48.75	43.46	68.20	-24.74	peak
4	4482.150	6.74	33.57	42.54	48.26	46.03	68.20	-22.17	peak
5	10360.000	10.57	37.76	38.17	39.21	49.37	68.20	-18.83	peak
6	15540.000	13.97	40.72	40.58	38.11	52.22	74.00	-21.78	peak

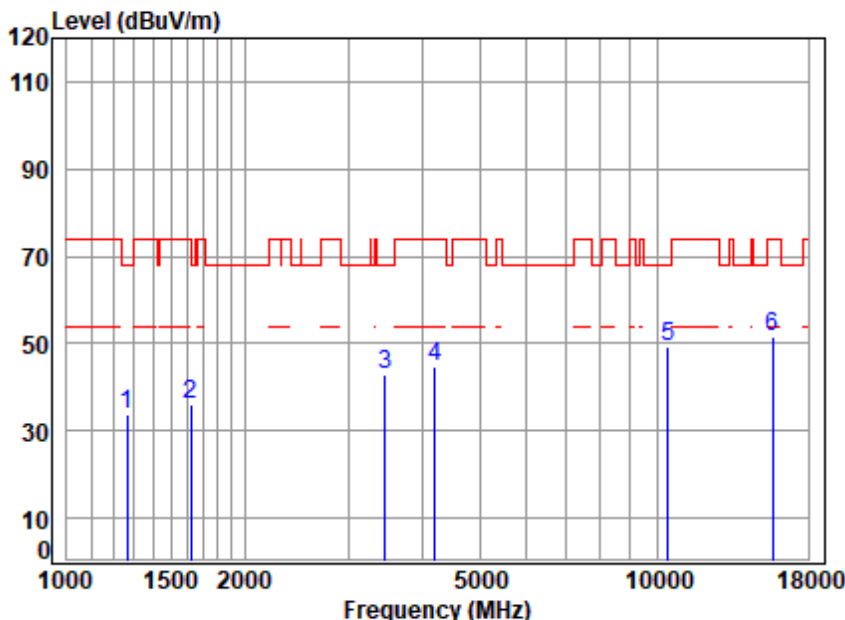


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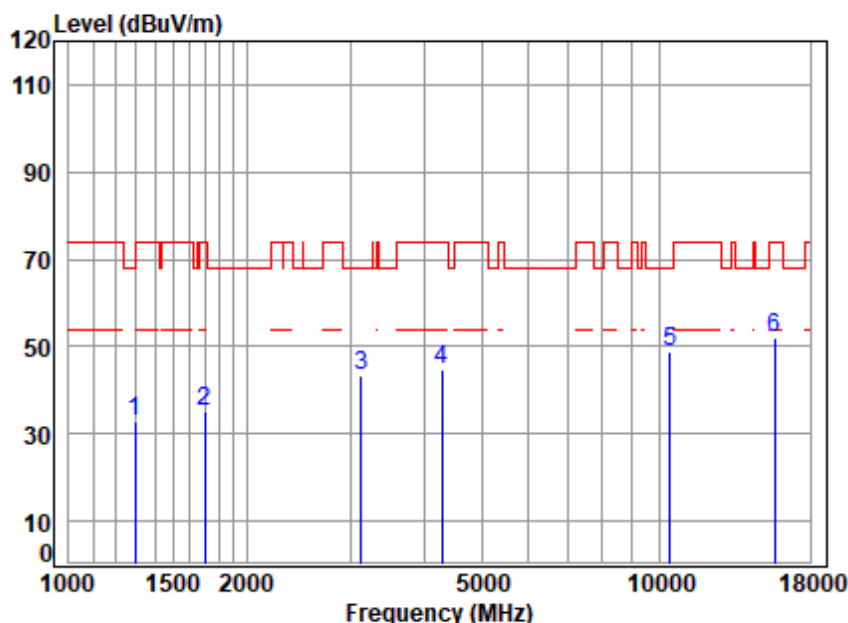
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5220 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	1267.454	2.89	24.89	40.34	46.27	33.71	68.20	-34.49	peak
2	1625.121	3.37	26.36	40.59	46.84	35.98	74.00	-38.02	peak
3	3465.510	5.48	31.65	41.68	47.49	42.94	68.20	-25.26	peak
4	4193.872	6.47	33.06	42.31	47.70	44.92	74.00	-29.08	peak
5	10440.000	10.55	37.72	38.21	39.01	49.07	68.20	-19.13	peak
6	15660.000	14.02	40.80	40.58	37.42	51.66	74.00	-22.34	peak

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



Site : chamber

Condition: 3m VERTICAL

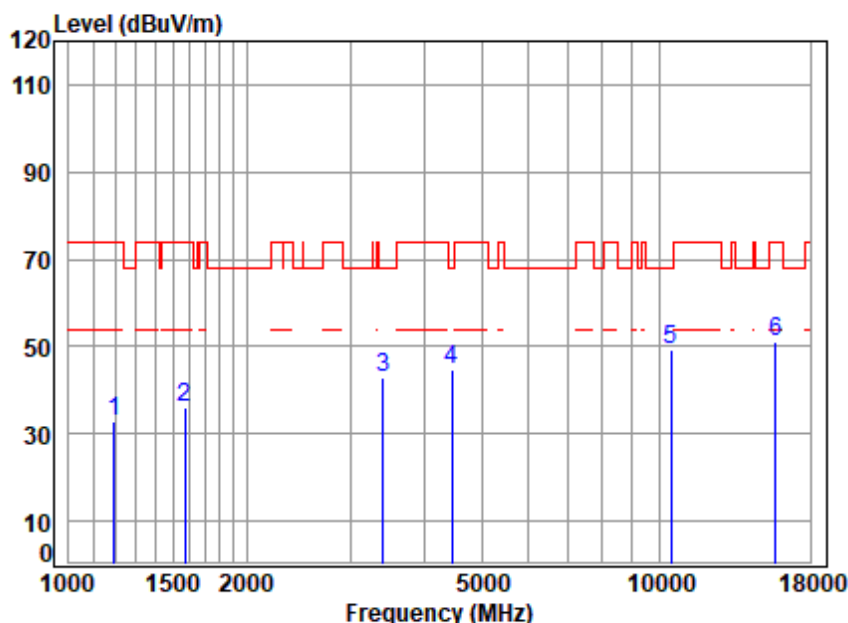
Job No : 10640CR

Mode : 5220 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	1297.103	2.94	25.01	40.36	45.43	33.02	68.20	-35.18	peak
2	1697.129	3.43	26.66	40.63	45.66	35.12	74.00	-38.88	peak
3	3123.039	5.03	31.11	41.33	48.53	43.34	68.20	-24.86	peak
4	4279.589	6.56	33.22	42.38	47.21	44.61	74.00	-29.39	peak
5	10440.000	10.55	37.72	38.21	38.91	48.97	68.20	-19.23	peak
6	15660.000	14.02	40.80	40.58	37.67	51.91	74.00	-22.09	peak

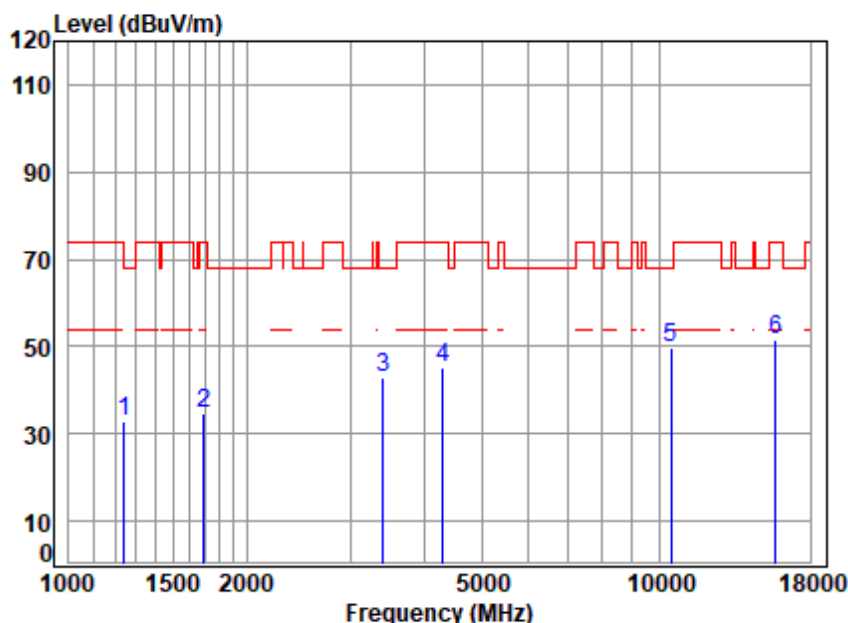
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	2.75	24.56	40.28	45.77	32.80	74.00	-41.20	peak
2	1574.265	3.33	26.14	40.55	47.23	36.15	74.00	-37.85	peak
3	3405.929	5.40	31.56	41.62	47.75	43.09	68.20	-25.11	peak
4	4456.315	6.72	33.53	42.52	47.02	44.75	68.20	-23.45	peak
5	10480.000	10.54	37.71	38.23	39.17	49.19	68.20	-19.01	peak
6	15720.000	14.04	40.83	40.57	36.65	50.95	74.00	-23.05	peak

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



Site : chamber

Condition: 3m VERTICAL

Job No : 10640CR

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	1242.068	2.84	24.78	40.32	45.68	32.98	68.20	-35.22	peak
2	1692.231	3.42	26.64	40.63	45.46	34.89	74.00	-39.11	peak
3	3405.929	5.40	31.56	41.62	47.75	43.09	68.20	-25.11	peak
4	4304.400	6.58	33.26	42.40	47.88	45.32	74.00	-28.68	peak
5	10480.000	10.54	37.71	38.23	39.59	49.61	68.20	-18.59	peak
6	15720.000	14.04	40.83	40.57	37.35	51.65	74.00	-22.35	peak



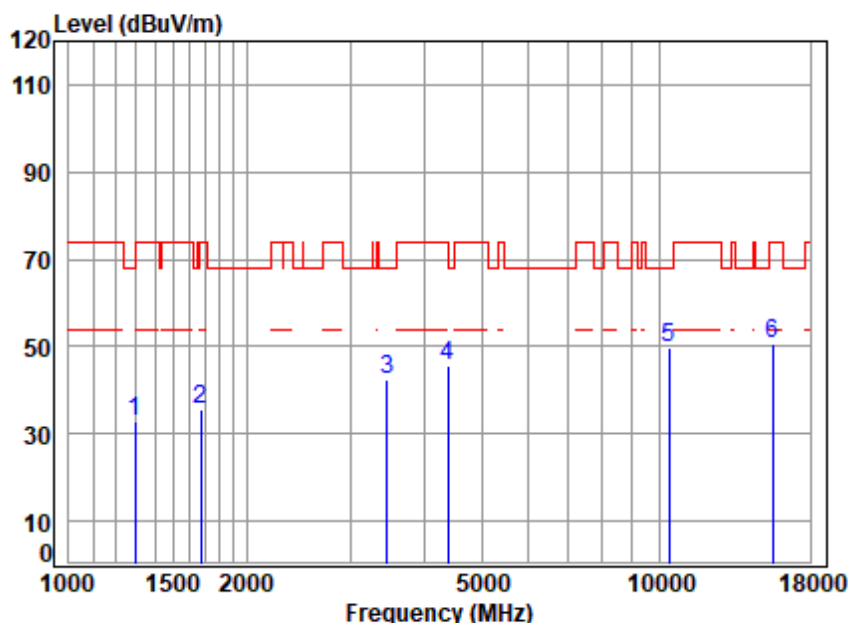
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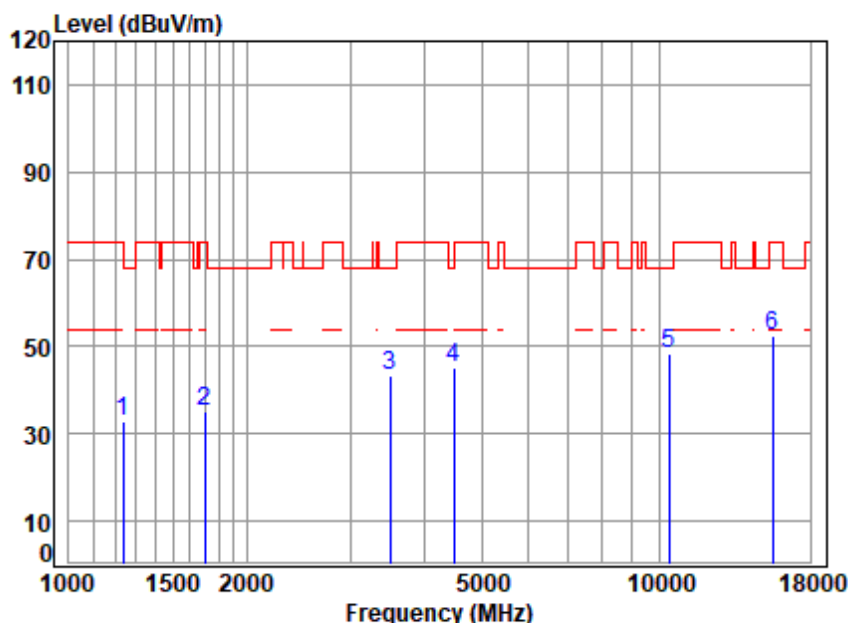
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1293.359	2.93	25.00	40.36	45.26	32.83	68.20	-35.37	peak
2	1672.779	3.41	26.56	40.62	46.34	35.69	74.00	-38.31	peak
3	3455.508	5.47	31.63	41.67	46.93	42.36	68.20	-25.84	peak
4	4392.376	6.66	33.42	42.47	48.08	45.69	74.00	-28.31	peak
5	10380.000	10.57	37.75	38.18	39.80	49.94	68.20	-18.26	peak
6	15570.000	13.98	40.74	40.58	36.44	50.58	74.00	-23.42	peak

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



Site : chamber

Condition: 3m VERTICAL

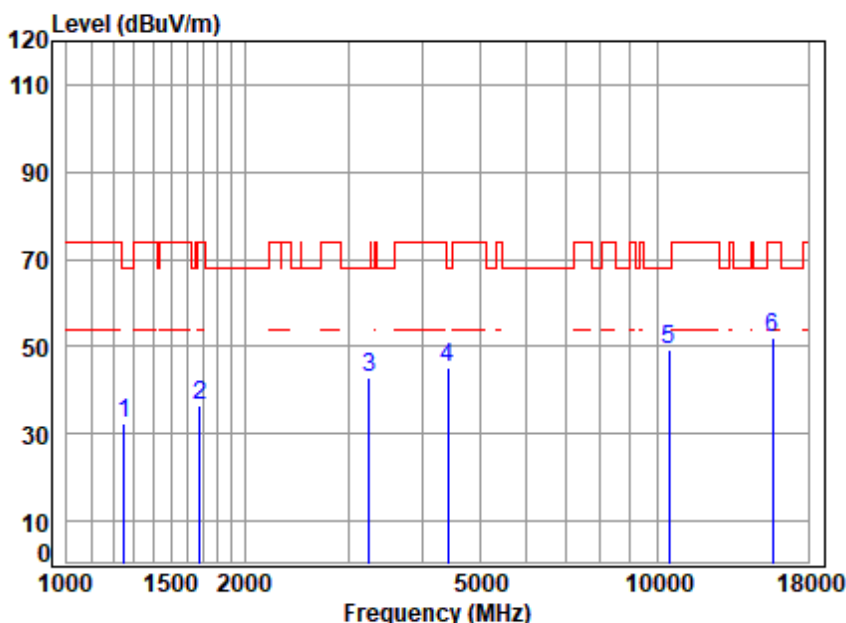
Job No : 10640CR

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	1234.909	2.83	24.74	40.31	45.65	32.91	74.00	-41.09	peak
2	1697.129	3.43	26.66	40.63	45.63	35.09	74.00	-38.91	peak
3	3495.691	5.51	31.69	41.71	47.92	43.41	68.20	-24.79	peak
4	4495.125	6.76	33.59	42.55	47.59	45.39	68.20	-22.81	peak
5	10380.000	10.57	37.75	38.18	38.20	48.34	68.20	-19.86	peak
6	15570.000	13.98	40.74	40.58	38.15	52.29	74.00	-21.71	peak

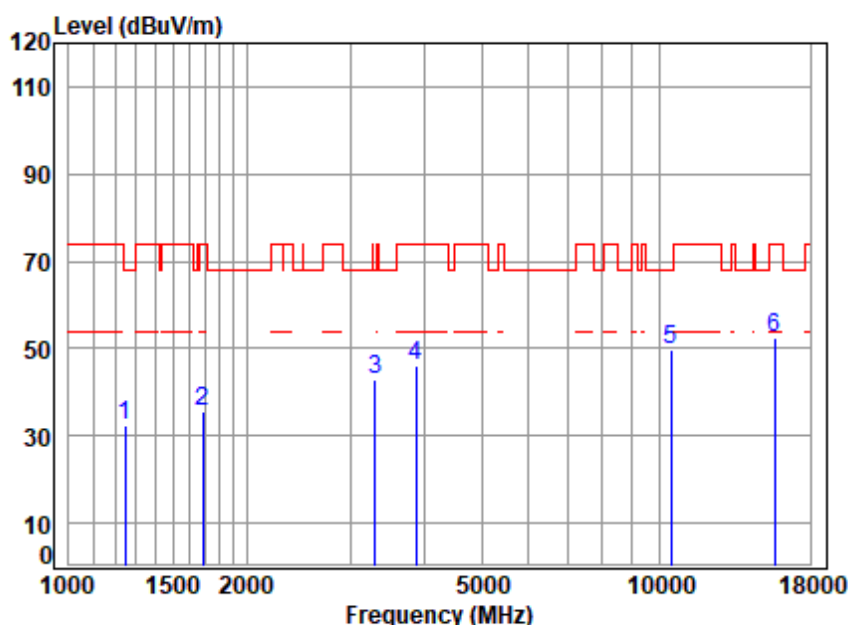
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1249.269	2.85	24.81	40.32	45.17	32.51	68.20	-35.69	peak
2	1682.477	3.42	26.60	40.62	47.21	36.61	74.00	-37.39	peak
3	3252.005	5.21	31.32	41.47	47.65	42.71	68.20	-25.49	peak
4	4417.841	6.68	33.46	42.49	47.47	45.12	68.20	-23.08	peak
5	10460.000	10.54	37.72	38.22	39.28	49.32	68.20	-18.88	peak
6	15690.000	14.03	40.82	40.58	37.91	52.18	74.00	-21.82	peak

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



Site : chamber

Condition: 3m VERTICAL

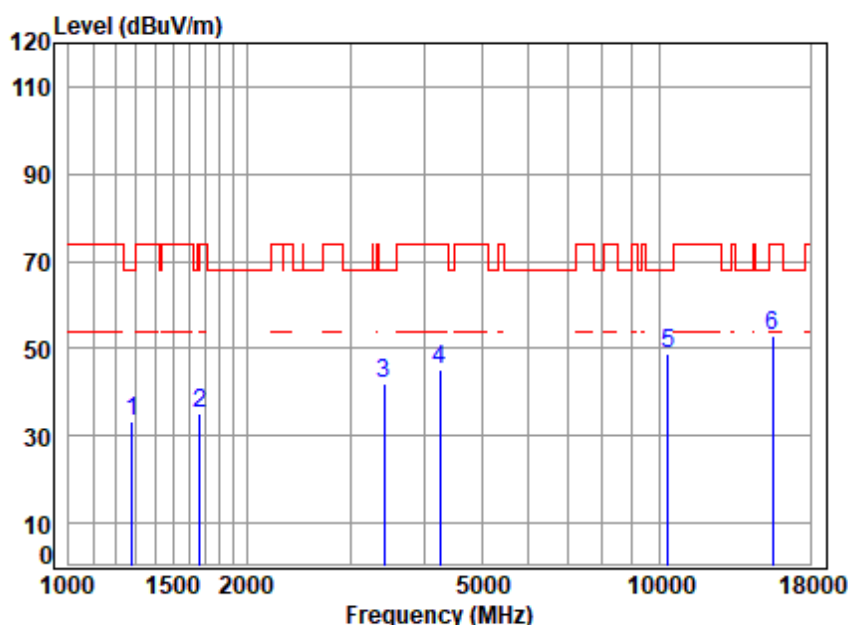
Job No : 10640CR

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	1245.663	2.85	24.79	40.32	45.13	32.45	68.20	-35.75	peak
2	1687.347	3.42	26.62	40.62	46.11	35.53	74.00	-38.47	peak
3	3299.344	5.27	31.39	41.52	47.67	42.81	68.20	-25.39	peak
4	3867.831	6.09	32.45	42.05	49.72	46.21	74.00	-27.79	peak
5	10460.000	10.54	37.72	38.22	39.58	49.62	68.20	-18.58	peak
6	15690.000	14.03	40.82	40.58	38.30	52.57	74.00	-21.43	peak

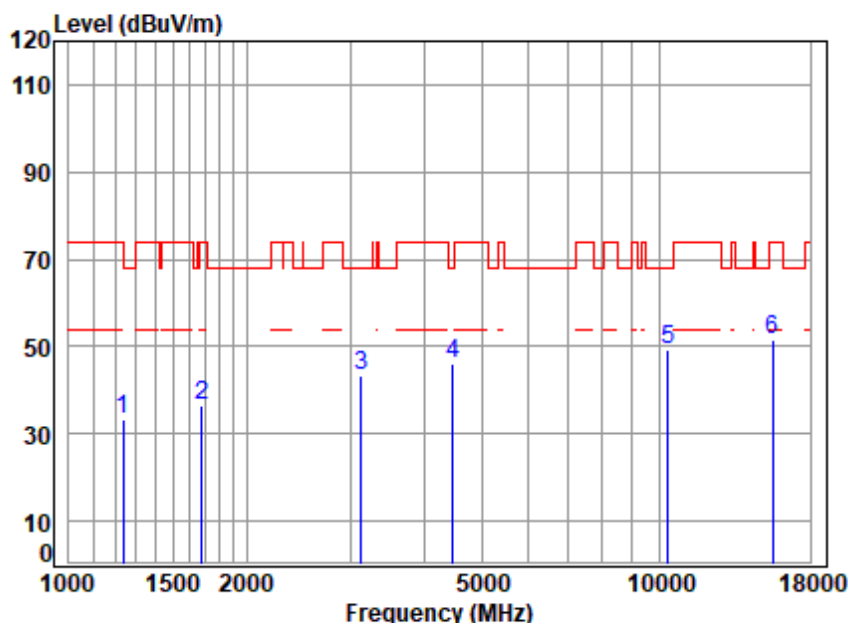
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

	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	2.91	24.95	40.35	45.70	33.21	68.20	-34.99	peak
2	1667.951	3.40	26.54	40.61	45.64	34.97	74.00	-39.03	peak
3	3415.787	5.42	31.57	41.63	46.73	42.09	68.20	-26.11	peak
4	4254.921	6.53	33.17	42.36	47.91	45.25	74.00	-28.75	peak
5	10360.000	10.57	37.76	38.17	38.77	48.93	68.20	-19.27	peak
6	15540.000	13.97	40.72	40.58	38.75	52.86	74.00	-21.14	peak

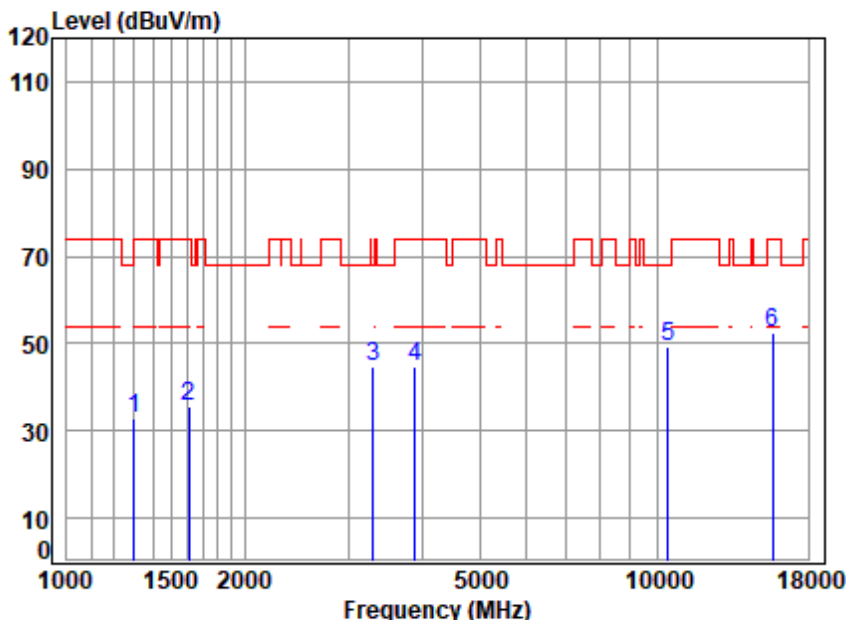
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5180 TX RSE
Note : 5G WIFI 11AC20

	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	2.83	24.76	40.31	45.95	33.23	74.00	-40.77	peak
2	1677.621	3.41	26.58	40.62	47.20	36.57	74.00	-37.43	peak
3	3123.039	5.03	31.11	41.33	48.37	43.18	68.20	-25.02	peak
4	4469.214	6.73	33.55	42.53	48.14	45.89	68.20	-22.31	peak
5	10360.000	10.57	37.76	38.17	38.97	49.13	68.20	-19.07	peak
6	15540.000	13.97	40.72	40.58	37.53	51.64	74.00	-22.36	peak

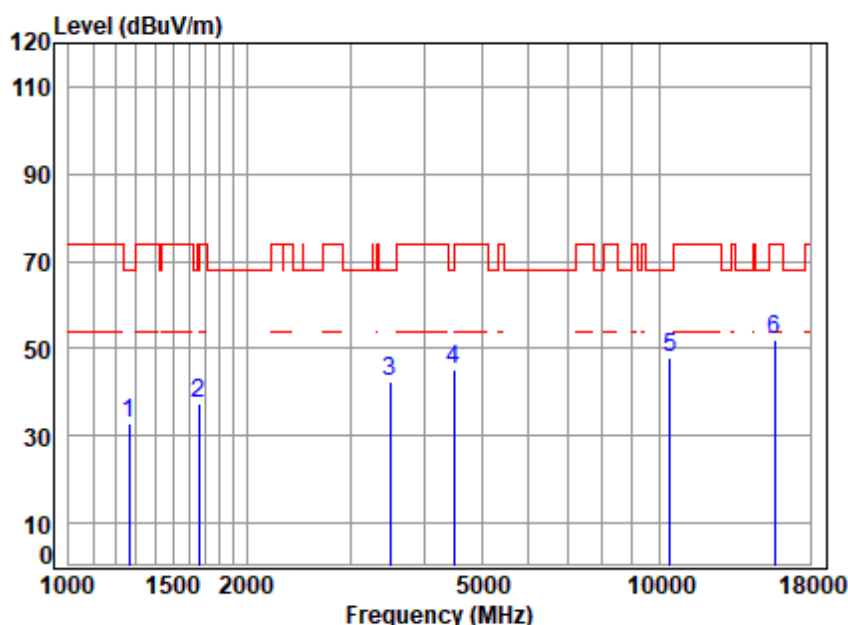
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5220 TX RSE
Note : 5G WIFI 11AC20

	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	1300.858	2.94	25.03	40.36	45.25	32.86	74.00	-41.14	peak
2	1611.091	3.36	26.30	40.58	46.65	35.73	74.00	-38.27	peak
3	3299.344	5.27	31.39	41.52	49.57	44.71	68.20	-23.49	peak
4	3890.255	6.12	32.49	42.06	48.32	44.87	74.00	-29.13	peak
5	10440.000	10.55	37.72	38.21	39.13	49.19	68.20	-19.01	peak
6	15660.000	14.02	40.80	40.58	38.20	52.44	74.00	-21.56	peak

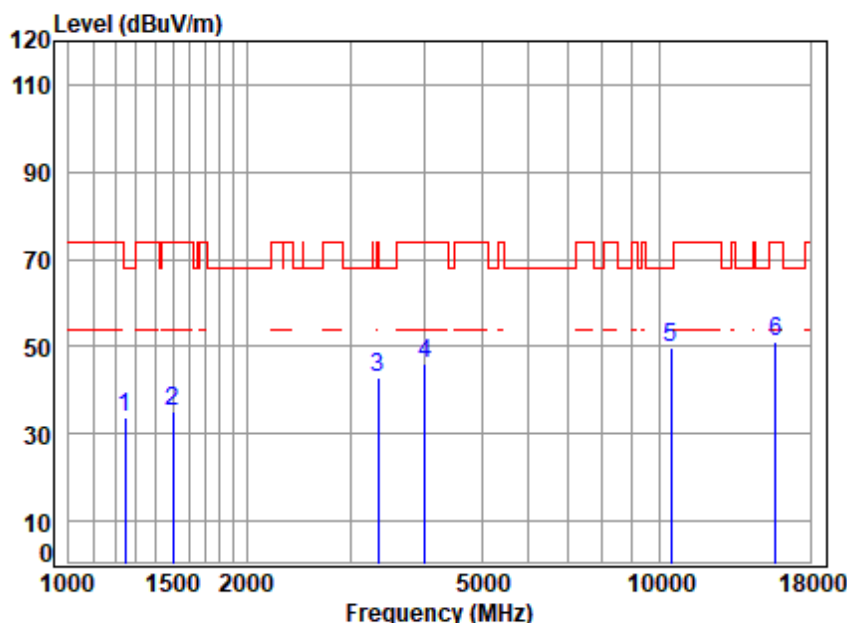
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5220 TX RSE
Note : 5G WIFI 11AC20

	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	1267.454	2.89	24.89	40.34	45.28	32.72	68.20	-35.48	peak
2	1663.137	3.40	26.52	40.61	48.27	37.58	74.00	-36.42	peak
3	3495.691	5.51	31.69	41.71	46.98	42.47	68.20	-25.73	peak
4	4495.125	6.76	33.59	42.55	47.49	45.29	68.20	-22.91	peak
5	10440.000	10.55	37.72	38.21	37.89	47.95	68.20	-20.25	peak
6	15660.000	14.02	40.80	40.58	37.76	52.00	74.00	-22.00	peak

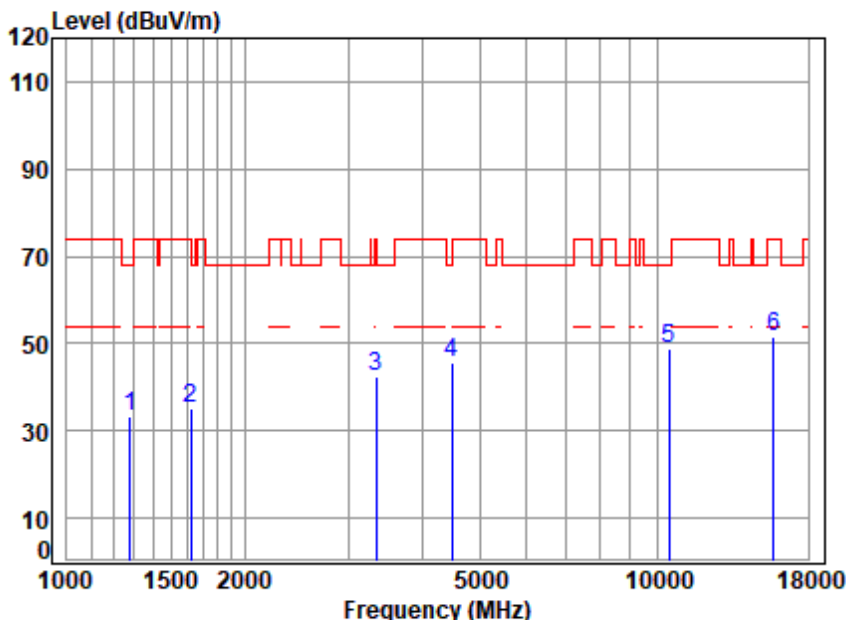
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

	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	2.85	24.79	40.32	46.55	33.87	68.20	-34.33	peak
2	1498.781	3.26	25.80	40.51	46.53	35.08	74.00	-38.92	peak
3	3347.371	5.33	31.47	41.56	47.59	42.83	74.00	-31.17	peak
4	4015.929	6.30	32.73	42.17	49.00	45.86	74.00	-28.14	peak
5	10480.000	10.54	37.71	38.23	39.56	49.58	68.20	-18.62	peak
6	15720.000	14.04	40.83	40.57	36.79	51.09	74.00	-22.91	peak

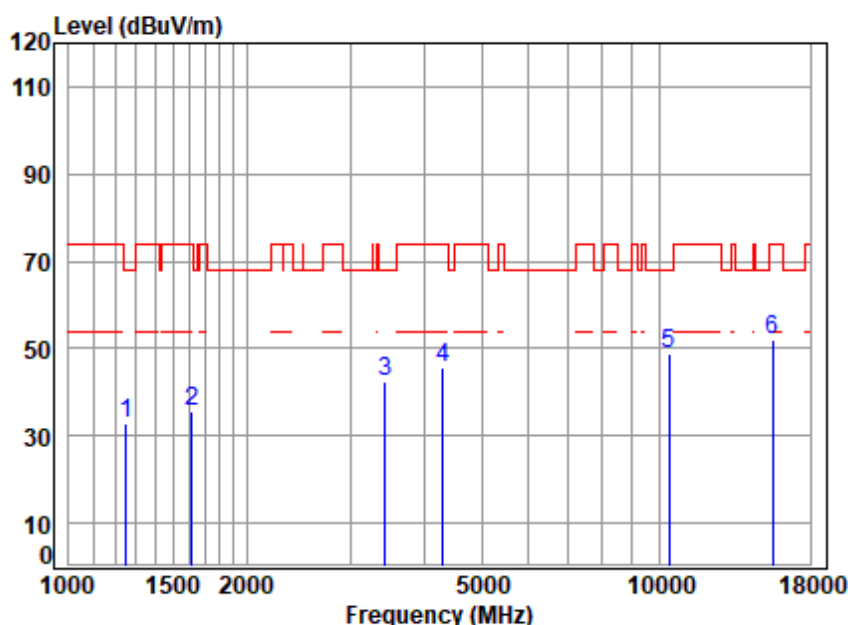
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5240 TX RSE
Note : 5G WIFI 11AC20

	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	1278.492	2.91	24.93	40.35	45.91	33.40	68.20	-34.80	peak
2	1620.431	3.36	26.34	40.58	45.86	34.98	74.00	-39.02	peak
3	3337.710	5.32	31.45	41.56	47.39	42.60	74.00	-31.40	peak
4	4495.125	6.76	33.59	42.55	47.72	45.52	68.20	-22.68	peak
5	10480.000	10.54	37.71	38.23	38.91	48.93	68.20	-19.27	peak
6	15720.000	14.04	40.83	40.57	37.09	51.39	74.00	-22.61	peak

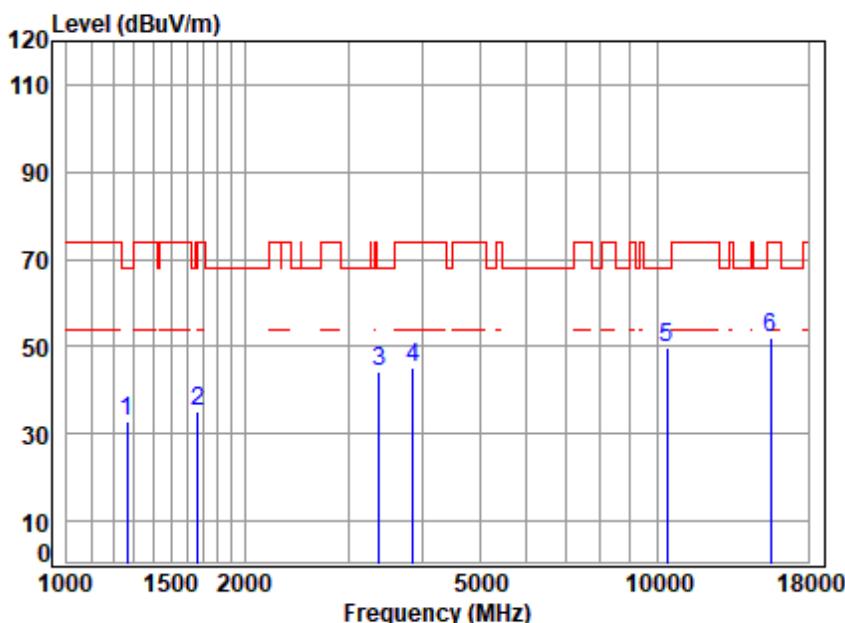
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	2.86	24.82	40.33	45.52	32.87	68.20	-35.33	peak
2	1615.754	3.36	26.32	40.58	46.55	35.65	74.00	-38.35	peak
3	3435.590	5.44	31.60	41.65	46.92	42.31	68.20	-25.89	peak
4	4304.400	6.58	33.26	42.40	48.04	45.48	74.00	-28.52	peak
5	10380.000	10.57	37.75	38.18	38.64	48.78	68.20	-19.42	peak
6	15570.000	13.98	40.74	40.58	37.67	51.81	74.00	-22.19	peak

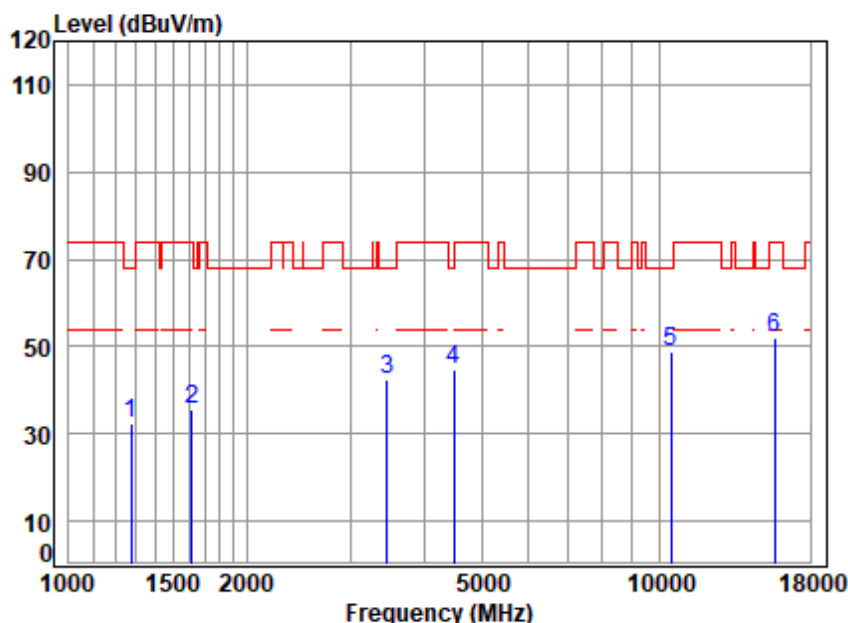
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5190 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	2.88	24.87	40.33	45.42	32.84	68.20	-35.36	peak
2	1667.951	3.40	26.54	40.61	45.82	35.15	74.00	-38.85	peak
3	3386.297	5.38	31.53	41.60	48.73	44.04	68.20	-24.16	peak
4	3856.668	6.07	32.43	42.04	48.53	44.99	74.00	-29.01	peak
5	10380.000	10.57	37.75	38.18	39.74	49.88	68.20	-18.32	peak
6	15570.000	13.98	40.74	40.58	38.05	52.19	74.00	-21.81	peak

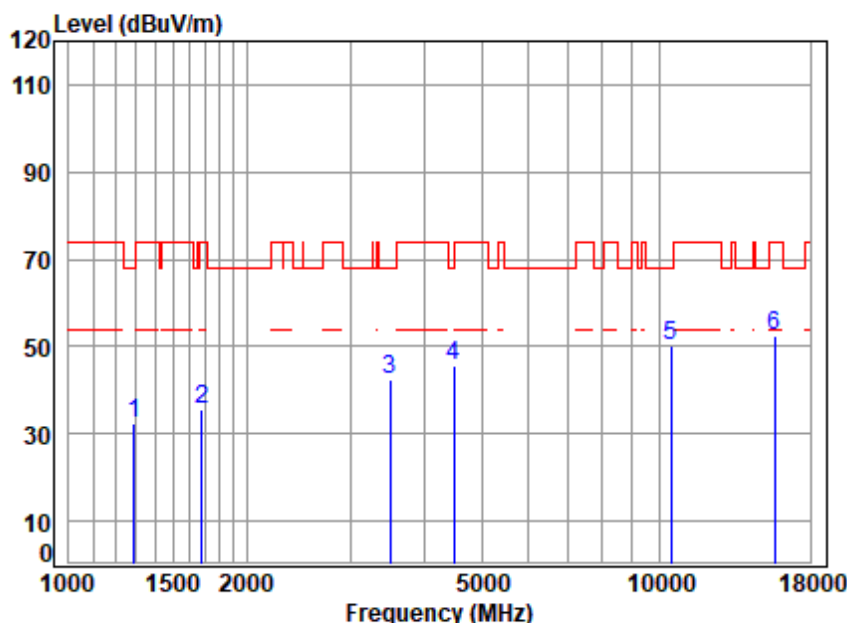
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

	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	2.90	24.92	40.34	44.97	32.45	68.20	-35.75	peak
2	1615.754	3.36	26.32	40.58	46.62	35.72	74.00	-38.28	peak
3	3465.510	5.48	31.65	41.68	47.00	42.45	68.20	-25.75	peak
4	4482.150	6.74	33.57	42.54	46.83	44.60	68.20	-23.60	peak
5	10460.000	10.54	37.72	38.22	38.95	48.99	68.20	-19.21	peak
6	15690.000	14.03	40.82	40.58	37.64	51.91	74.00	-22.09	peak

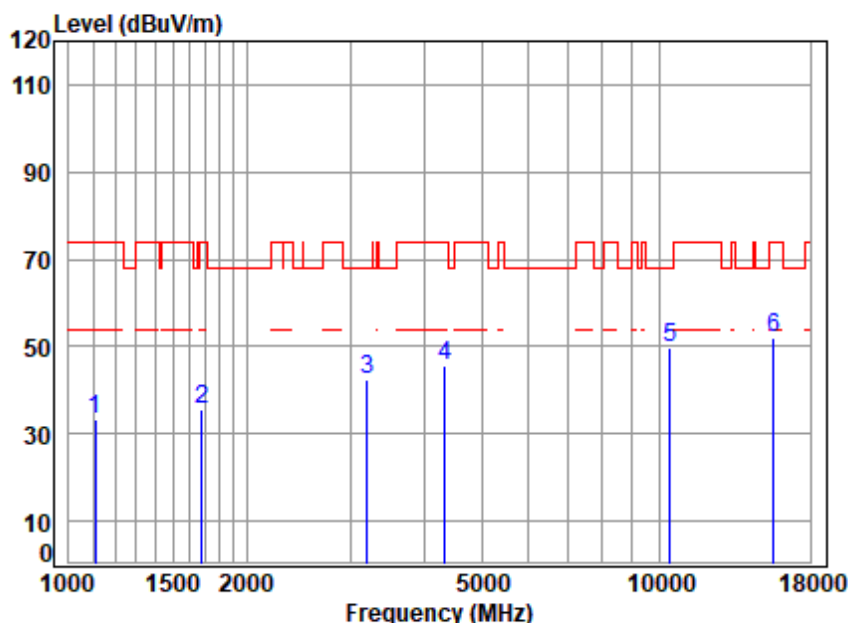
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5230 TX RSE
Note : 5G WIFI 11AC40

	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	2.92	24.98	40.35	45.02	32.57	68.20	-35.63	peak
2	1677.621	3.41	26.58	40.62	46.28	35.65	74.00	-38.35	peak
3	3495.691	5.51	31.69	41.71	46.78	42.27	68.20	-25.93	peak
4	4495.125	6.76	33.59	42.55	47.87	45.67	68.20	-22.53	peak
5	10460.000	10.54	37.72	38.22	40.09	50.13	68.20	-18.07	peak
6	15690.000	14.03	40.82	40.58	38.10	52.37	74.00	-21.63	peak

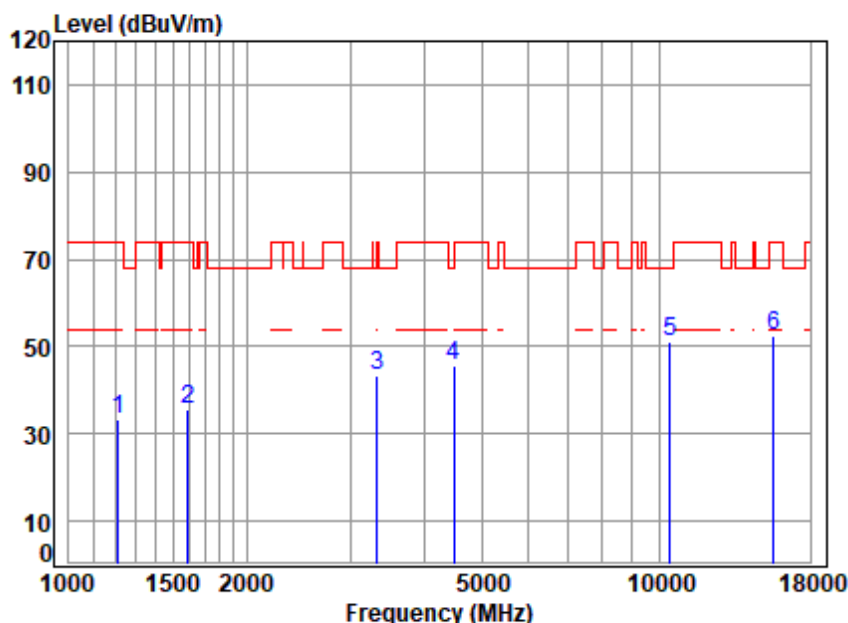
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1109.660	2.59	24.16	40.20	46.63	33.18	74.00	-40.82	peak
2	1682.477	3.42	26.60	40.62	45.98	35.38	74.00	-38.62	peak
3	3205.345	5.14	31.24	41.42	47.55	42.51	68.20	-25.69	peak
4	4341.886	6.61	33.33	42.43	47.98	45.49	74.00	-28.51	peak
5	10420.000	10.56	37.73	38.20	39.61	49.70	68.20	-18.50	peak
6	15630.000	14.01	40.78	40.58	37.61	51.82	74.00	-22.18	peak

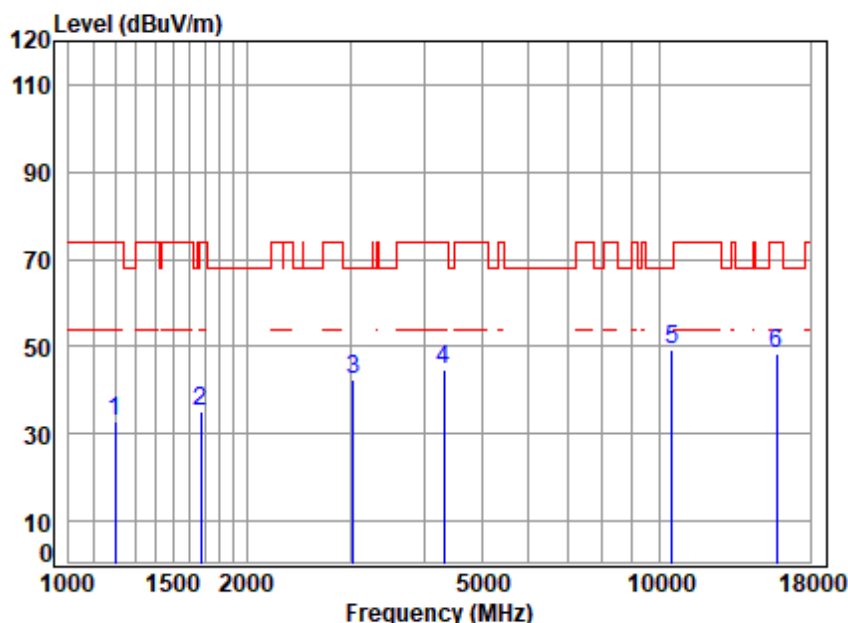
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5210 TX RSE
Note : 5G WIFI 11AC80

	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	1213.677	2.79	24.65	40.29	46.35	33.50	74.00	-40.50	peak
2	1592.571	3.34	26.22	40.57	46.68	35.67	74.00	-38.33	peak
3	3328.077	5.30	31.44	41.55	48.23	43.42	68.20	-24.78	peak
4	4495.125	6.76	33.59	42.55	47.91	45.71	68.20	-22.49	peak
5	10420.000	10.56	37.73	38.20	40.80	50.89	68.20	-17.31	peak
6	15630.000	14.01	40.78	40.58	38.26	52.47	74.00	-21.53	peak

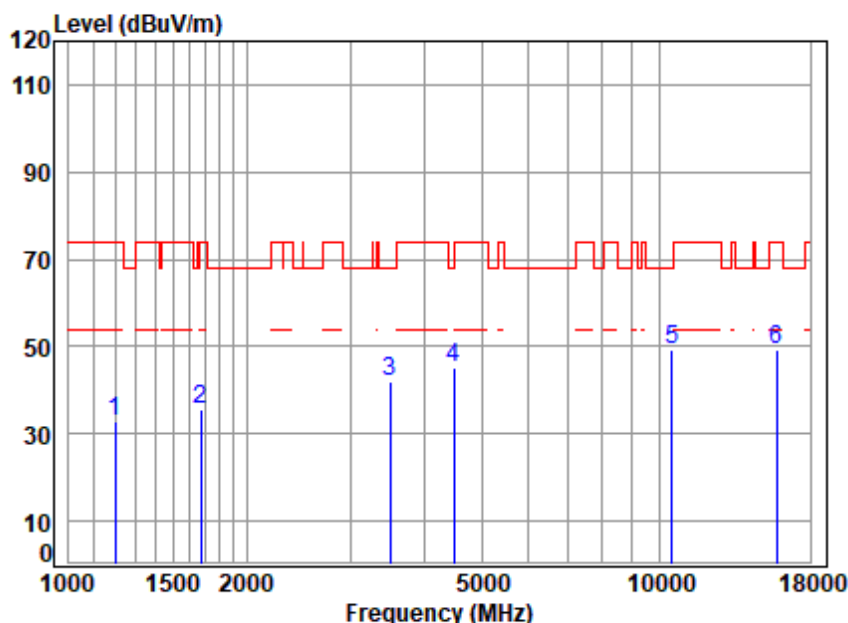
Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1199.726	2.76	24.59	40.28	45.96	33.03	74.00	-40.97	peak
2	1672.779	3.41	26.56	40.62	45.90	35.25	74.00	-38.75	peak
3	3034.063	4.91	30.96	41.24	47.79	42.42	68.20	-25.78	peak
4	4316.859	6.59	33.28	42.41	47.43	44.89	74.00	-29.11	peak
5	10520.000	10.55	37.70	38.25	39.11	49.11	68.20	-19.09	peak
6	15780.000	14.07	40.87	40.57	34.12	48.49	74.00	-25.51	peak

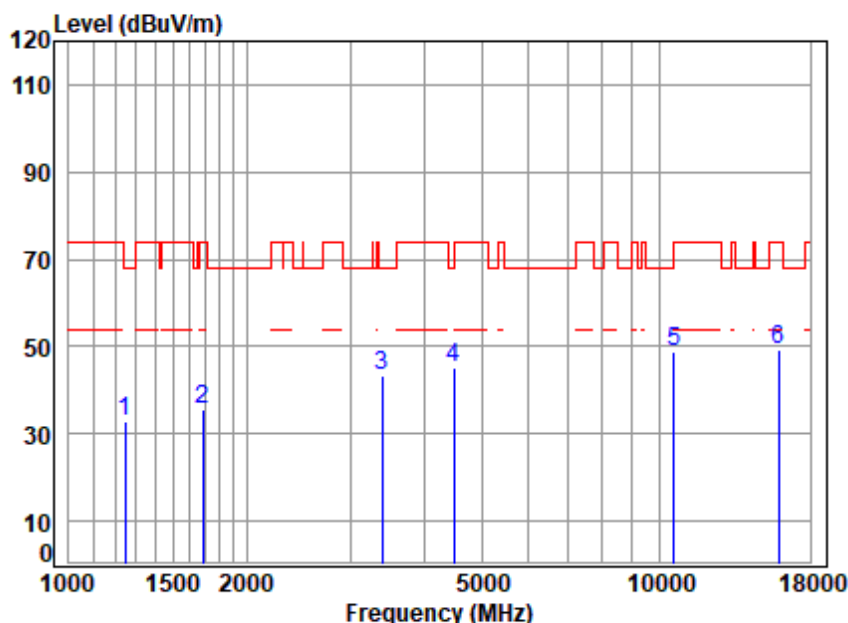
Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
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	1199.726	2.76	24.59	40.28	45.91	32.98	74.00	-41.02	peak
2	1672.779	3.41	26.56	40.62	46.12	35.47	74.00	-38.53	peak
3	3495.691	5.51	31.69	41.71	46.71	42.20	68.20	-26.00	peak
4	4495.125	6.76	33.59	42.55	47.20	45.00	68.20	-23.20	peak
5	10520.000	10.55	37.70	38.25	39.38	49.38	68.20	-18.82	peak
6	15780.000	14.07	40.87	40.57	34.88	49.25	74.00	-24.75	peak

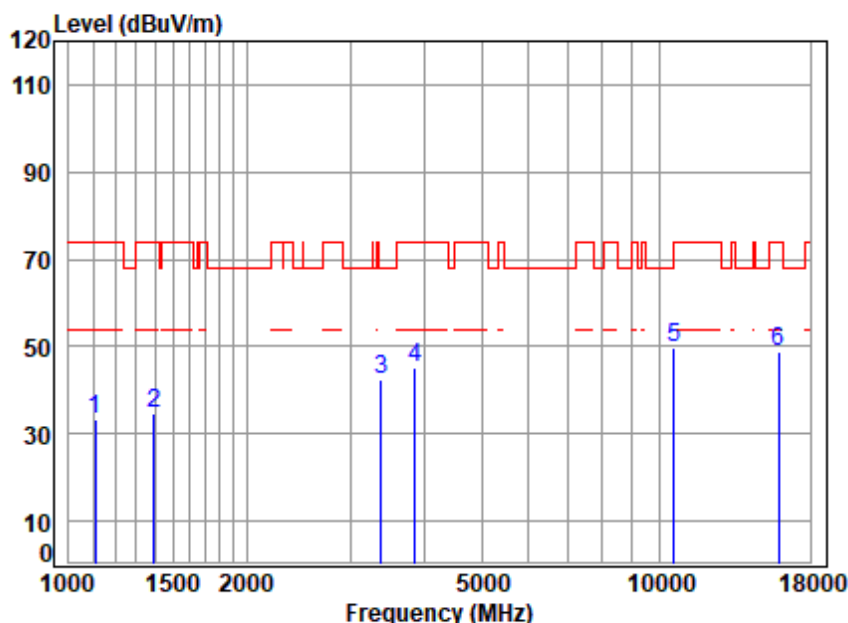
Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1245.663	2.85	24.79	40.32	45.55	32.87	68.20	-35.33	peak
2	1687.347	3.42	26.62	40.62	46.01	35.43	74.00	-38.57	peak
3	3396.098	5.39	31.54	41.61	47.89	43.21	68.20	-24.99	peak
4	4482.150	6.74	33.57	42.54	47.34	45.11	68.20	-23.09	peak
5	10600.000	10.62	37.72	38.29	38.92	48.97	68.20	-19.23	peak
6	15900.000	14.12	40.94	40.57	34.63	49.12	74.00	-24.88	peak

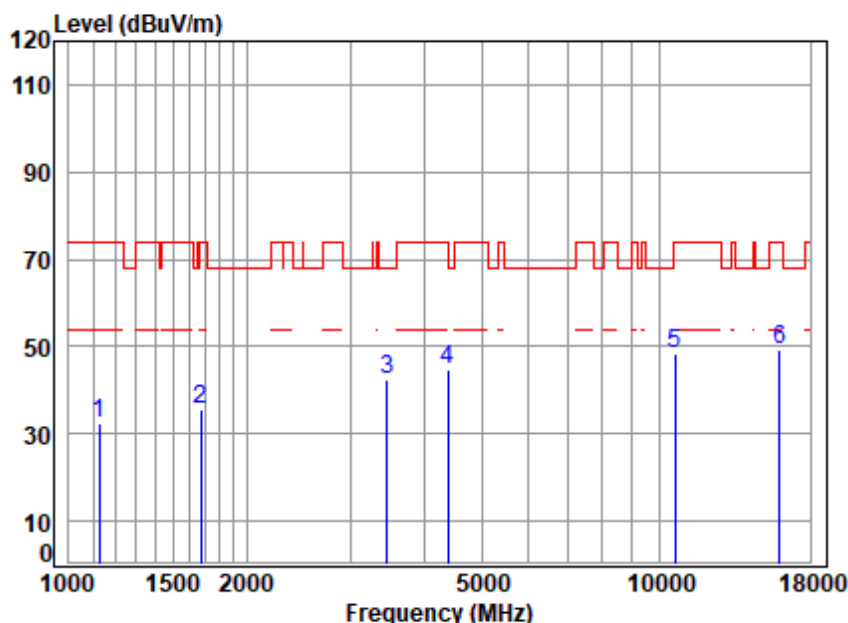
Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
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	1109.660	2.59	24.16	40.20	46.98	33.53	74.00	-40.47	peak
2	1394.300	3.10	25.40	40.43	46.71	34.78	74.00	-39.22	peak
3	3376.523	5.37	31.51	41.59	47.36	42.65	68.20	-25.55	peak
4	3856.668	6.07	32.43	42.04	48.68	45.14	74.00	-28.86	peak
5	10600.000	10.62	37.72	38.29	39.71	49.76	68.20	-18.44	peak
6	15900.000	14.12	40.94	40.57	34.50	48.99	74.00	-25.01	peak

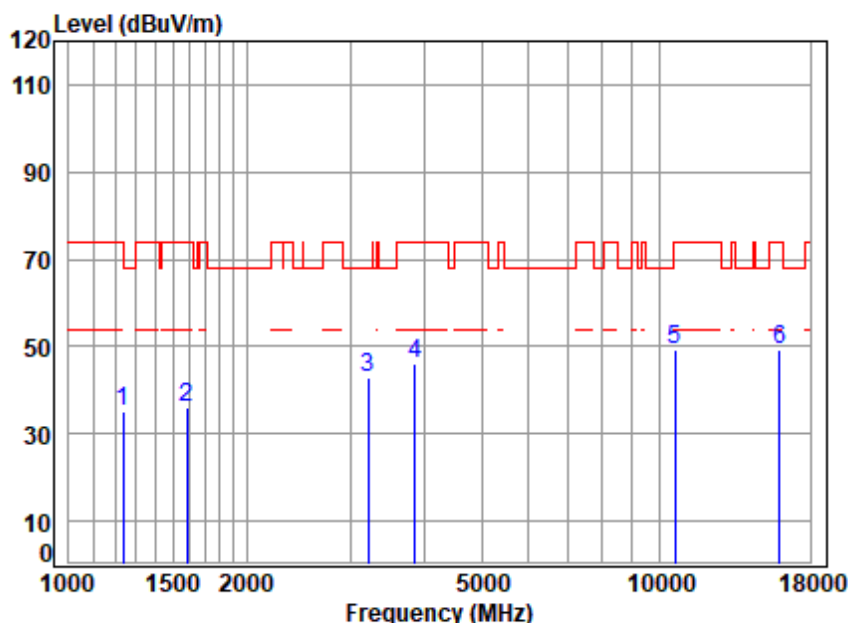
Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1125.813	2.62	24.24	40.22	45.61	32.25	74.00	-41.75	peak
2	1672.779	3.41	26.56	40.62	46.43	35.78	74.00	-38.22	peak
3	3455.508	5.47	31.63	41.67	46.94	42.37	68.20	-25.83	peak
4	4392.376	6.66	33.42	42.47	47.15	44.76	74.00	-29.24	peak
5	10640.000	10.66	37.73	38.31	38.33	48.41	74.00	-25.59	peak
6	15960.000	14.14	40.98	40.57	34.77	49.32	74.00	-24.68	peak

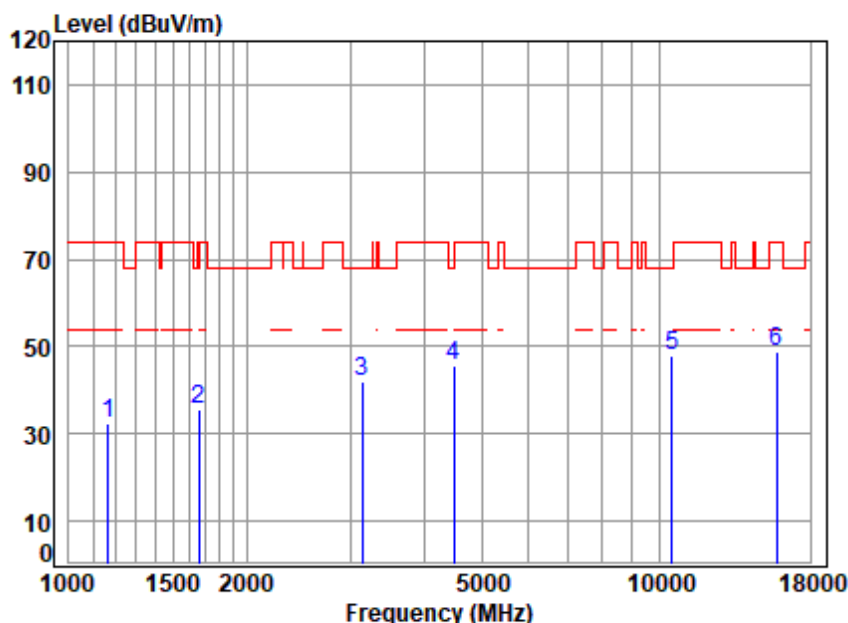
Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
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	1234.909	2.83	24.74	40.31	47.84	35.10	74.00	-38.90	peak
2	1587.975	3.34	26.20	40.56	47.09	36.07	74.00	-37.93	peak
3	3214.623	5.16	31.26	41.43	47.68	42.67	68.20	-25.53	peak
4	3856.668	6.07	32.43	42.04	49.57	46.03	74.00	-27.97	peak
5	10640.000	10.66	37.73	38.31	39.22	49.30	74.00	-24.70	peak
6	15960.000	14.14	40.98	40.57	34.65	49.20	74.00	-24.80	peak

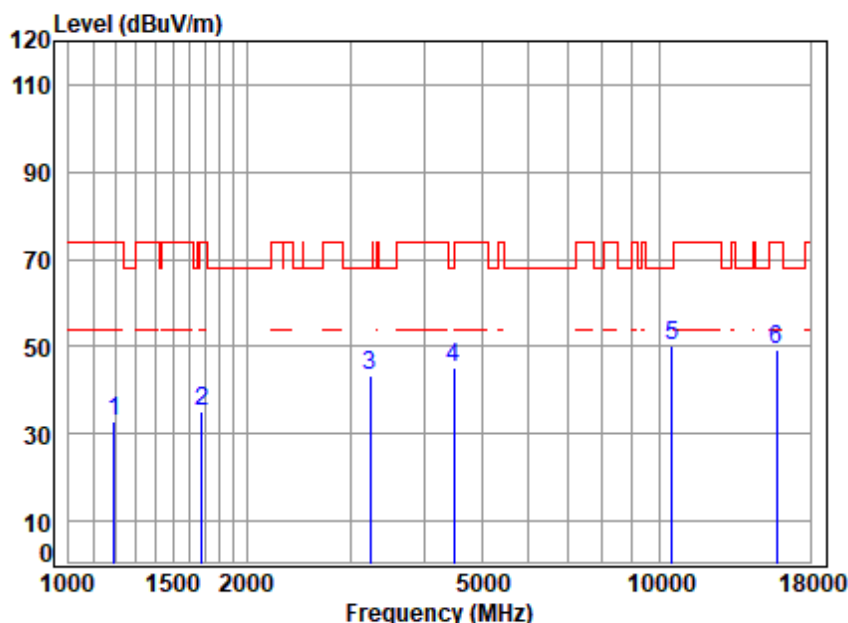
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1165.546	2.70	24.43	40.25	45.46	32.34	74.00	-41.66	peak
2	1663.137	3.40	26.52	40.61	46.49	35.80	74.00	-38.20	peak
3	3141.145	5.06	31.14	41.35	47.35	42.20	68.20	-26.00	peak
4	4495.125	6.76	33.59	42.55	47.89	45.69	68.20	-22.51	peak
5	10520.000	10.55	37.70	38.25	37.99	47.99	68.20	-20.21	peak
6	15780.000	14.07	40.87	40.57	34.25	48.62	74.00	-25.38	peak

Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

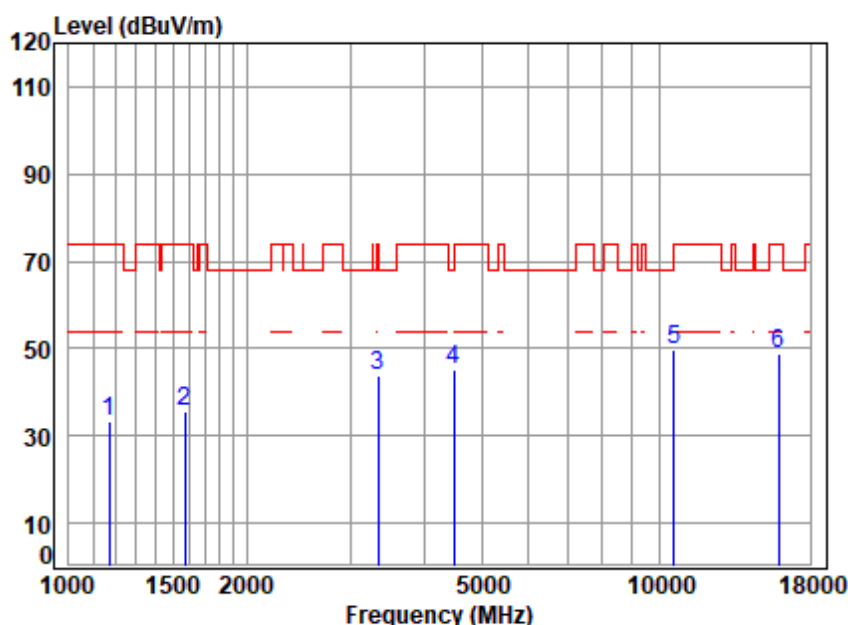
Job No : 10640CR

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	1192.811	2.75	24.56	40.28	45.89	32.92	74.00	-41.08	peak
2	1677.621	3.41	26.58	40.62	45.64	35.01	74.00	-38.99	peak
3	3242.619	5.19	31.30	41.46	48.32	43.35	68.20	-24.85	peak
4	4482.150	6.74	33.57	42.54	47.20	44.97	68.20	-23.23	peak
5	10520.000	10.55	37.70	38.25	40.40	50.40	68.20	-17.80	peak
6	15780.000	14.07	40.87	40.57	35.06	49.43	74.00	-24.57	peak

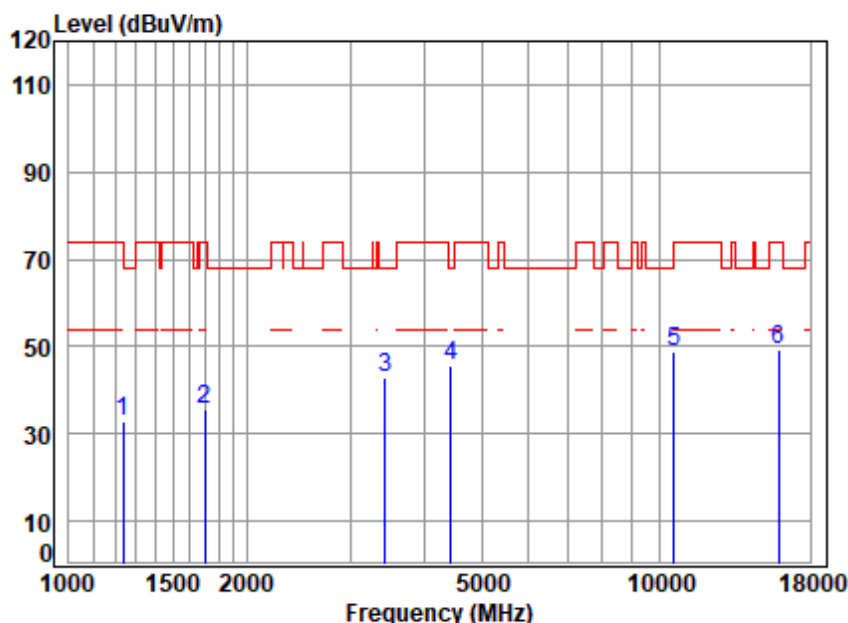
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1168.920	2.71	24.45	40.26	46.20	33.10	74.00	-40.90	peak
2	1574.265	3.33	26.14	40.55	46.59	35.51	74.00	-38.49	peak
3	3337.710	5.32	31.45	41.56	48.81	44.02	74.00	-29.98	peak
4	4495.125	6.76	33.59	42.55	47.41	45.21	68.20	-22.99	peak
5	10600.000	10.62	37.72	38.29	39.80	49.85	68.20	-18.35	peak
6	15900.000	14.12	40.94	40.57	34.24	48.73	74.00	-25.27	peak

Test Mode: 12; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: middle



Site : chamber

Condition: 3m VERTICAL

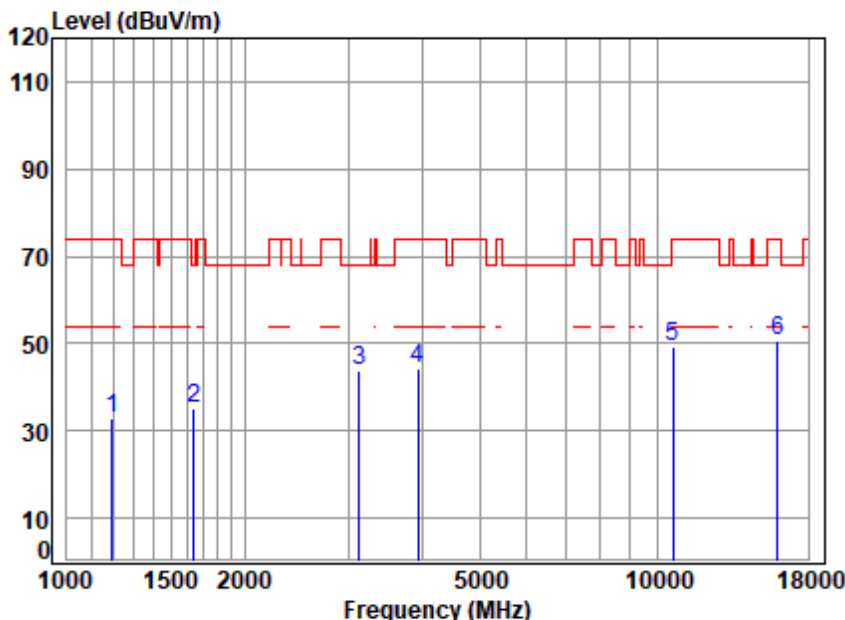
Job No : 10640CR

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	1238.483	2.83	24.76	40.31	45.77	33.05	74.00	-40.95	peak
2	1702.042	3.43	26.68	40.63	46.10	35.58	74.00	-38.42	peak
3	3435.590	5.44	31.60	41.65	47.49	42.88	68.20	-25.32	peak
4	4443.453	6.71	33.50	42.51	47.79	45.49	68.20	-22.71	peak
5	10600.000	10.62	37.72	38.29	38.86	48.91	68.20	-19.29	peak
6	15900.000	14.12	40.94	40.57	34.94	49.43	74.00	-24.57	peak

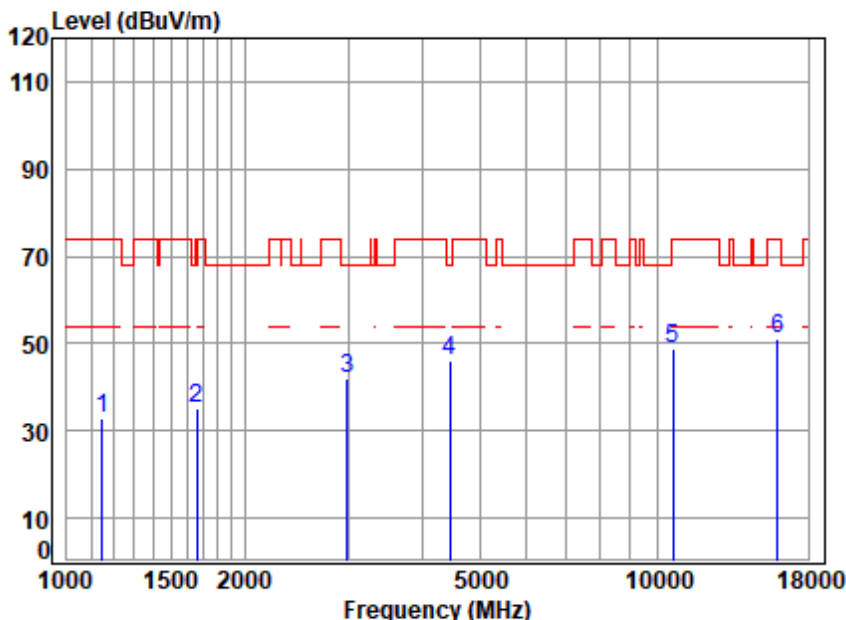
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1192.811	2.75	24.56	40.28	45.66	32.69	74.00	-41.31	peak
2	1644.019	3.38	26.44	40.60	46.09	35.31	68.20	-32.89	peak
3	3132.079	5.04	31.12	41.34	48.93	43.75	68.20	-24.45	peak
4	3935.493	6.19	32.58	42.10	47.78	44.45	74.00	-29.55	peak
5	10640.000	10.66	37.73	38.31	39.20	49.28	74.00	-24.72	peak
6	15960.000	14.14	40.98	40.57	35.95	50.50	74.00	-23.50	peak

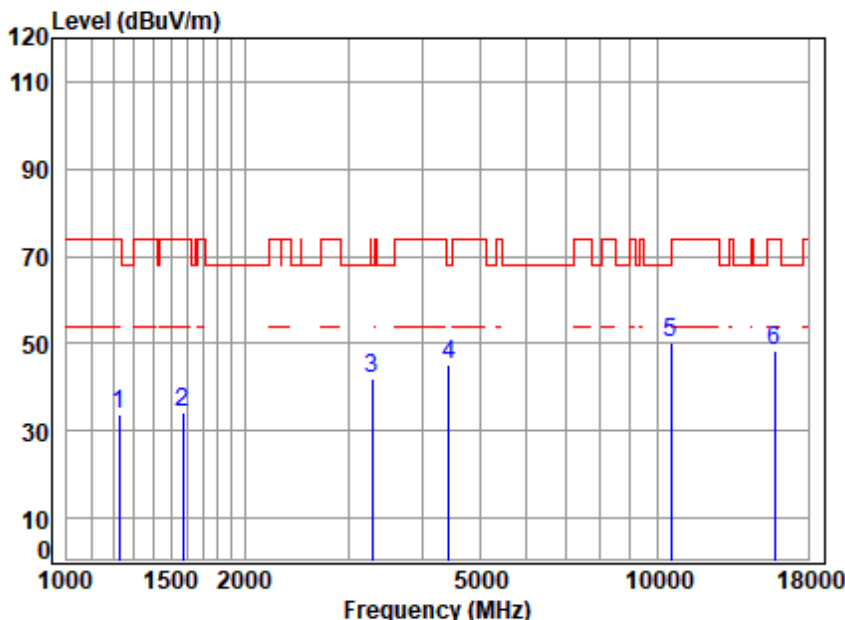
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
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	1148.823	2.67	24.35	40.24	46.12	32.90	74.00	-41.10	peak
2	1663.137	3.40	26.52	40.61	45.91	35.22	74.00	-38.78	peak
3	2990.531	4.85	30.86	41.20	47.54	42.05	68.20	-26.15	peak
4	4456.315	6.72	33.53	42.52	48.26	45.99	68.20	-22.21	peak
5	10640.000	10.66	37.73	38.31	38.65	48.73	74.00	-25.27	peak
6	15960.000	14.14	40.98	40.57	36.72	51.27	74.00	-22.73	peak

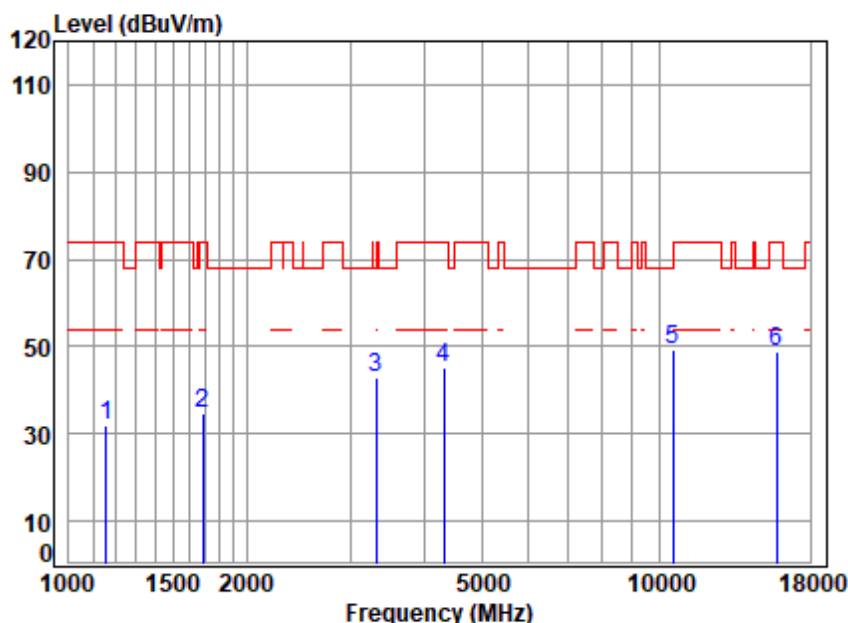
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1227.791	2.82	24.71	40.31	46.67	33.89	74.00	-40.11	peak
2	1574.265	3.33	26.14	40.55	45.52	34.44	74.00	-39.56	peak
3	3289.821	5.25	31.38	41.51	46.82	41.94	68.20	-26.26	peak
4	4443.453	6.71	33.50	42.51	47.40	45.10	68.20	-23.10	peak
5	10540.000	10.57	37.71	38.26	40.02	50.04	68.20	-18.16	peak
6	15810.000	14.08	40.89	40.57	33.92	48.32	74.00	-25.68	peak

Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

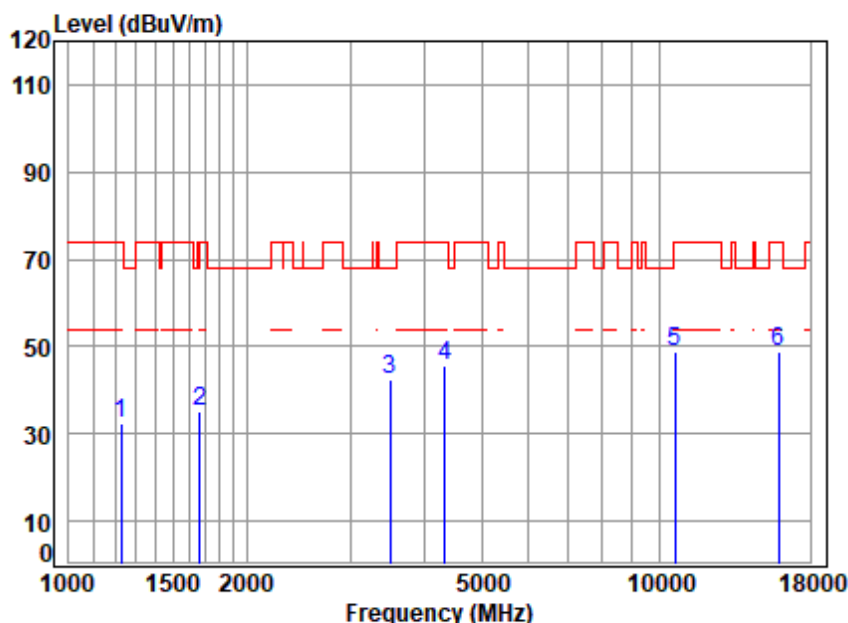
Job No : 10640CR

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	1158.828	2.69	24.40	40.25	45.27	32.11	74.00	-41.89	peak
2	1687.347	3.42	26.62	40.62	45.10	34.52	74.00	-39.48	peak
3	3318.471	5.29	31.42	41.54	47.56	42.73	68.20	-25.47	peak
4	4316.859	6.59	33.28	42.41	47.64	45.10	74.00	-28.90	peak
5	10540.000	10.57	37.71	38.26	39.31	49.33	68.20	-18.87	peak
6	15810.000	14.08	40.89	40.57	34.42	48.82	74.00	-25.18	peak

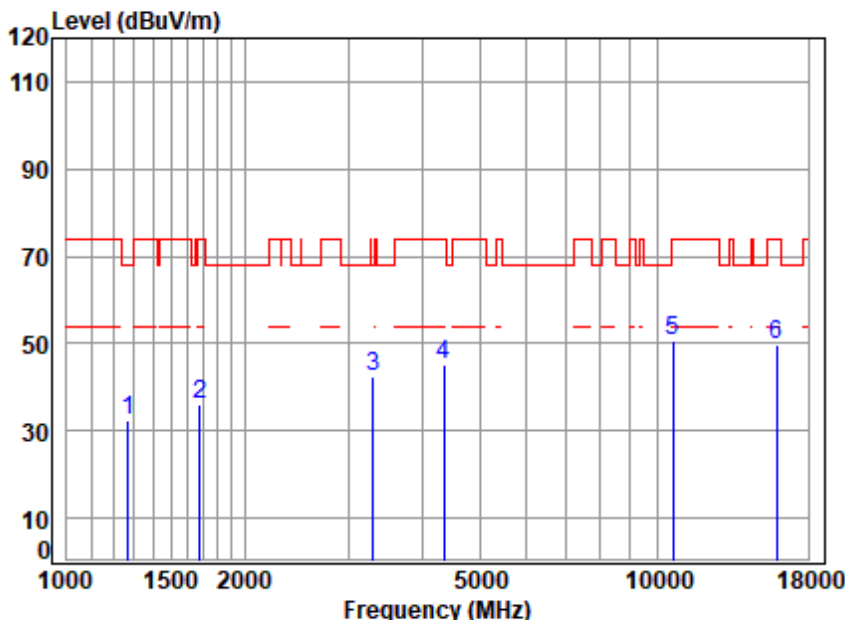
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
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	1227.791	2.82	24.71	40.31	44.99	32.21	74.00	-41.79	peak
2	1667.951	3.40	26.54	40.61	45.73	35.06	74.00	-38.94	peak
3	3495.691	5.51	31.69	41.71	46.78	42.27	68.20	-25.93	peak
4	4341.886	6.61	33.33	42.43	48.02	45.53	74.00	-28.47	peak
5	10620.000	10.64	37.72	38.30	38.91	48.97	74.00	-25.03	peak
6	15930.000	14.13	40.96	40.57	34.20	48.72	74.00	-25.28	peak

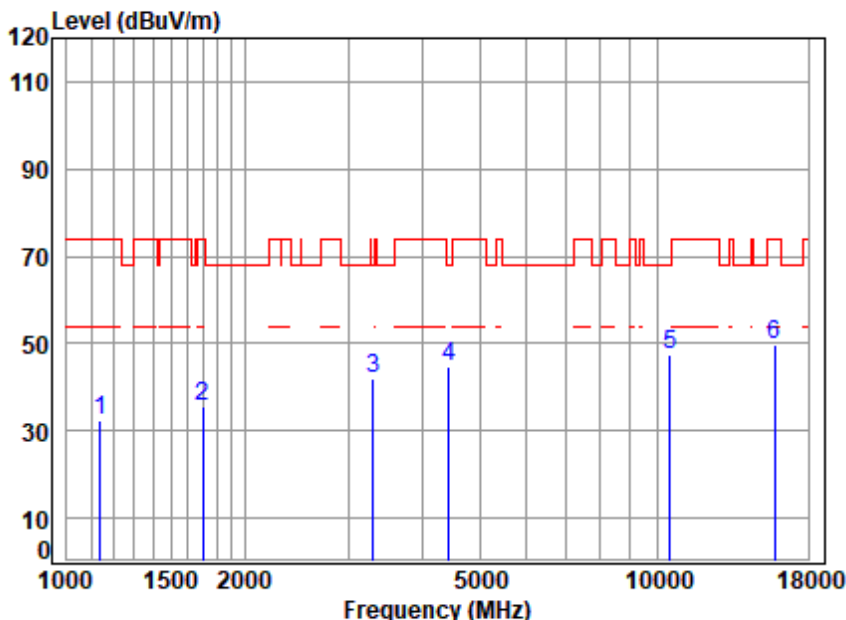
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
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	1271.123	2.89	24.90	40.34	44.87	32.32	68.20	-35.88	peak
2	1682.477	3.42	26.60	40.62	46.63	36.03	74.00	-37.97	peak
3	3299.344	5.27	31.39	41.52	47.36	42.50	68.20	-25.70	peak
4	4354.454	6.63	33.35	42.44	47.45	44.99	74.00	-29.01	peak
5	10620.000	10.64	37.72	38.30	40.51	50.57	74.00	-23.43	peak
6	15930.000	14.13	40.96	40.57	35.28	49.80	74.00	-24.20	peak

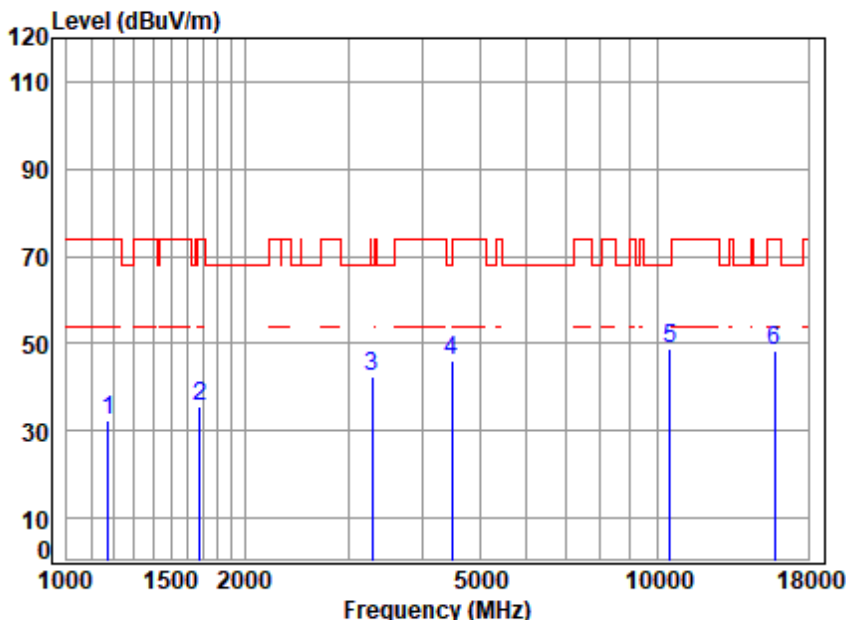
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5260 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.31	40.23	45.80	32.53	74.00	-41.47	peak
2	1697.129	3.43	26.66	40.63	45.99	35.45	74.00	-38.55	peak
3	3299.344	5.27	31.39	41.52	46.85	41.99	68.20	-26.21	peak
4	4430.628	6.70	33.48	42.50	47.23	44.91	68.20	-23.29	peak
5	10520.000	10.55	37.70	38.25	37.51	47.51	68.20	-20.69	peak
6	15780.000	14.07	40.87	40.57	35.49	49.86	74.00	-24.14	peak

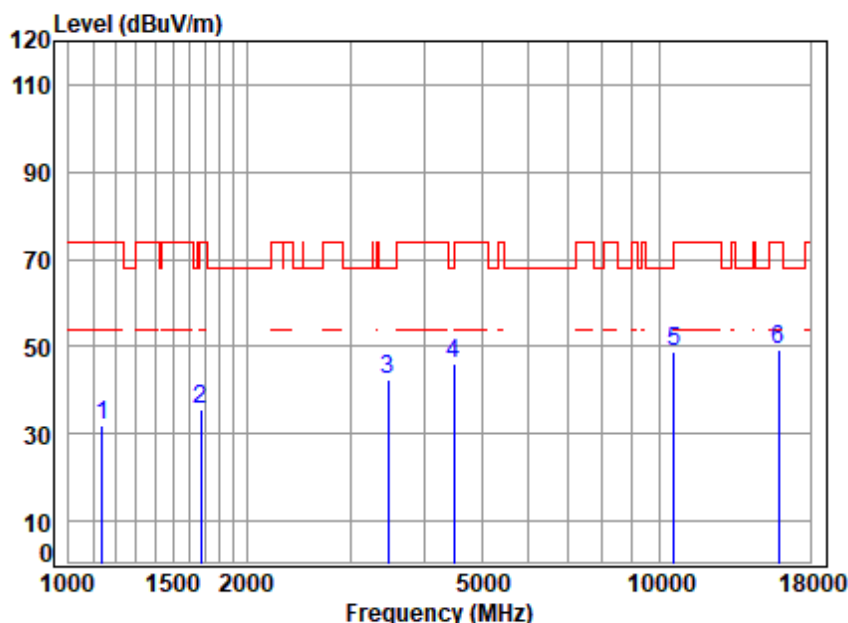
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5260 TX RSE
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	2.72	24.48	40.26	45.37	32.31	74.00	-41.69	peak
2	1677.621	3.41	26.58	40.62	46.01	35.38	74.00	-38.62	peak
3	3289.821	5.25	31.38	41.51	47.29	42.41	68.20	-25.79	peak
4	4482.150	6.74	33.57	42.54	48.17	45.94	68.20	-22.26	peak
5	10520.000	10.55	37.70	38.25	38.74	48.74	68.20	-19.46	peak
6	15780.000	14.07	40.87	40.57	34.16	48.53	74.00	-25.47	peak

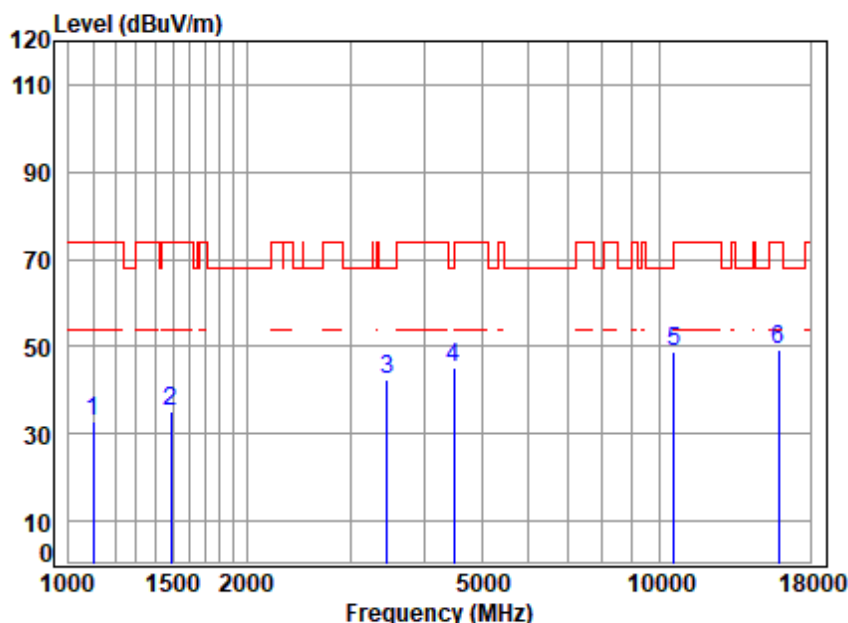
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5300 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1138.904	2.65	24.31	40.23	45.40	32.13	74.00	-41.87	peak
2	1672.779	3.41	26.56	40.62	46.21	35.56	74.00	-38.44	peak
3	3475.541	5.49	31.66	41.69	47.19	42.65	68.20	-25.55	peak
4	4495.125	6.76	33.59	42.55	48.23	46.03	68.20	-22.17	peak
5	10600.000	10.62	37.72	38.29	38.90	48.95	68.20	-19.25	peak
6	15900.000	14.12	40.94	40.57	34.97	49.46	74.00	-24.54	peak

Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5300 TX RSE
Note : 5G WIFI 11AC20

	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	1100.079	2.57	24.12	40.20	46.37	32.86	74.00	-41.14	peak
2	1490.142	3.25	25.76	40.50	46.55	35.06	74.00	-38.94	peak
3	3455.508	5.47	31.63	41.67	46.78	42.21	68.20	-25.99	peak
4	4495.125	6.76	33.59	42.55	47.41	45.21	68.20	-22.99	peak
5	10600.000	10.62	37.72	38.29	38.78	48.83	68.20	-19.37	peak
6	15900.000	14.12	40.94	40.57	34.97	49.46	74.00	-24.54	peak



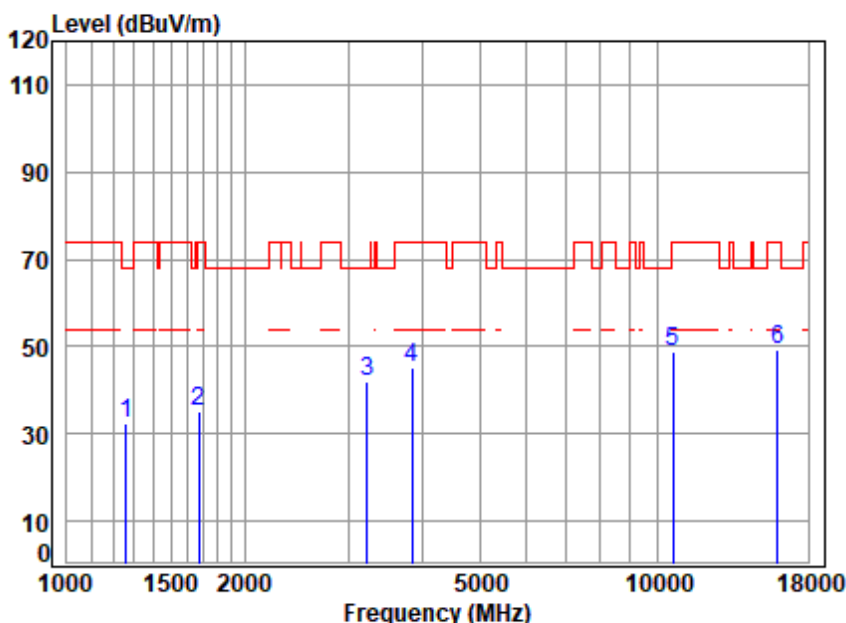
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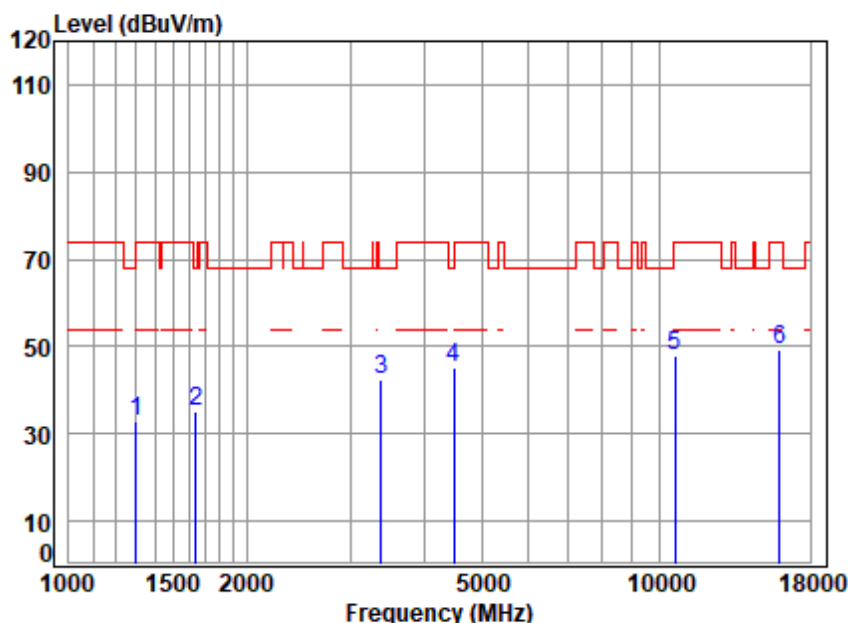
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5320 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	2.87	24.85	40.33	45.14	32.53	68.20	-35.67	peak
2	1672.779	3.41	26.56	40.62	45.95	35.30	74.00	-38.70	peak
3	3223.928	5.17	31.27	41.44	47.00	42.00	68.20	-26.20	peak
4	3845.537	6.06	32.41	42.03	48.82	45.26	74.00	-28.74	peak
5	10640.000	10.66	37.73	38.31	38.91	48.99	74.00	-25.01	peak
6	15960.000	14.14	40.98	40.57	34.91	49.46	74.00	-24.54	peak

Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5320 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	2.94	25.03	40.36	45.34	32.95	74.00	-41.05	peak
2	1639.274	3.38	26.42	40.59	45.99	35.20	68.20	-33.00	peak
3	3386.297	5.38	31.53	41.60	47.24	42.55	68.20	-25.65	peak
4	4495.125	6.76	33.59	42.55	47.29	45.09	68.20	-23.11	peak
5	10640.000	10.66	37.73	38.31	37.90	47.98	74.00	-26.02	peak
6	15960.000	14.14	40.98	40.57	34.86	49.41	74.00	-24.59	peak

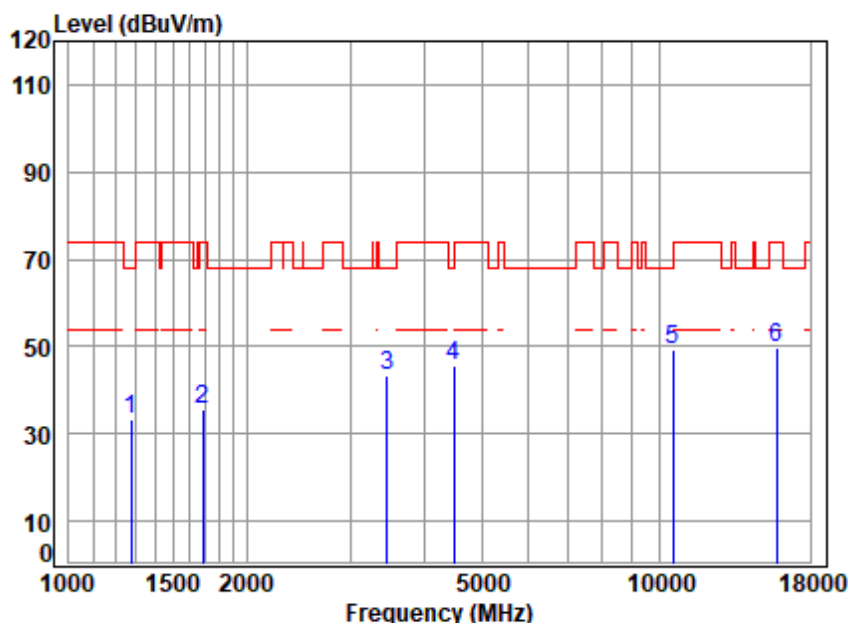


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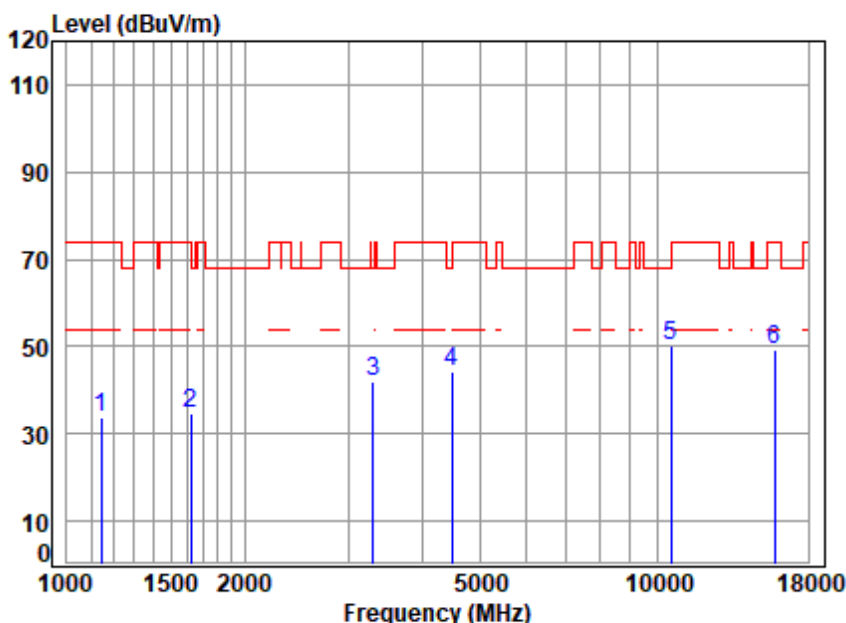
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5270 TX RSE
Note : 5G WIFI 11AC40

	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	2.90	24.92	40.34	45.69	33.17	68.20	-35.03	peak
2	1687.347	3.42	26.62	40.62	46.02	35.44	74.00	-38.56	peak
3	3455.508	5.47	31.63	41.67	48.06	43.49	68.20	-24.71	peak
4	4482.150	6.74	33.57	42.54	47.70	45.47	68.20	-22.73	peak
5	10540.000	10.57	37.71	38.26	39.40	49.42	68.20	-18.78	peak
6	15810.000	14.08	40.89	40.57	35.14	49.54	74.00	-24.46	peak

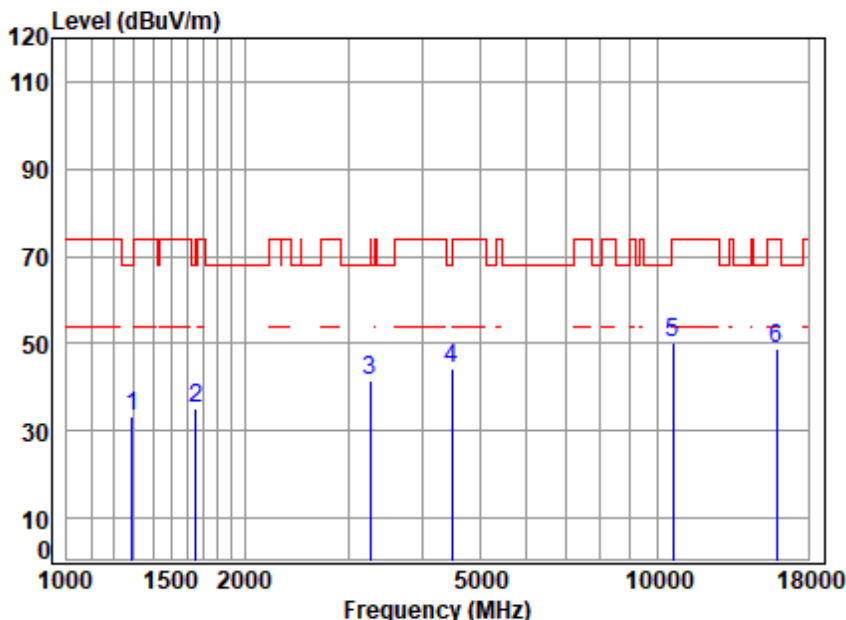
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5270 TX RSE
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	2.66	24.34	40.24	47.02	33.78	74.00	-40.22	peak
2	1625.121	3.37	26.36	40.59	45.55	34.69	74.00	-39.31	peak
3	3299.344	5.27	31.39	41.52	46.90	42.04	68.20	-26.16	peak
4	4482.150	6.74	33.57	42.54	46.68	44.45	68.20	-23.75	peak
5	10540.000	10.57	37.71	38.26	40.05	50.07	68.20	-18.13	peak
6	15810.000	14.08	40.89	40.57	34.85	49.25	74.00	-24.75	peak

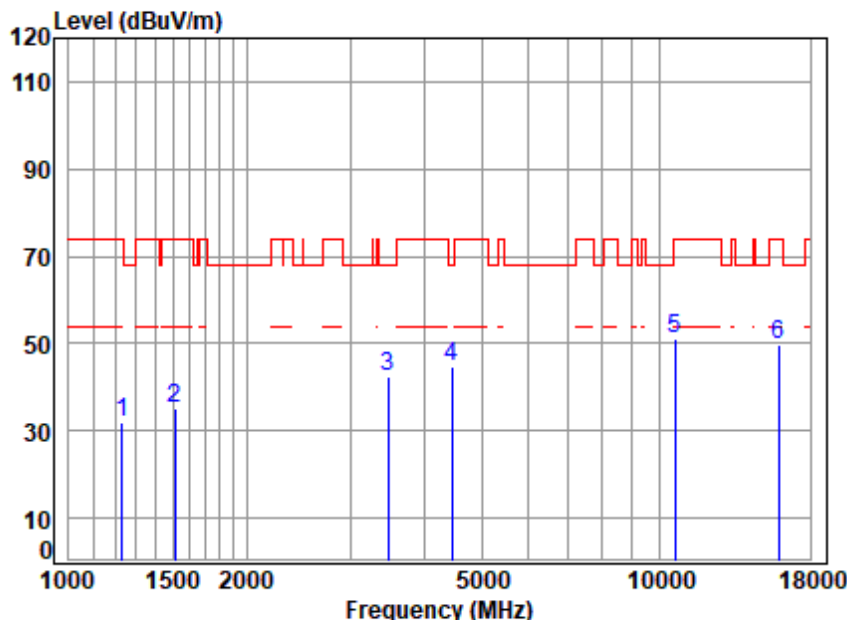
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5310 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	2.92	24.98	40.35	45.60	33.15	68.20	-35.05	peak
2	1653.550	3.39	26.48	40.60	45.71	34.98	68.20	-33.22	peak
3	3261.418	5.22	31.33	41.48	46.65	41.72	74.00	-32.28	peak
4	4495.125	6.76	33.59	42.55	46.50	44.30	68.20	-23.90	peak
5	10620.000	10.64	37.72	38.30	40.22	50.28	74.00	-23.72	peak
6	15930.000	14.13	40.96	40.57	34.12	48.64	74.00	-25.36	peak

Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5310 TX RSE
Note : 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	2.82	24.73	40.31	44.90	32.14	74.00	-41.86	peak
2	1511.833	3.27	25.85	40.51	46.68	35.29	74.00	-38.71	peak
3	3475.541	5.49	31.66	41.69	46.88	42.34	68.20	-25.86	peak
4	4456.315	6.72	33.53	42.52	46.93	44.66	68.20	-23.54	peak
5	10620.000	10.64	37.72	38.30	40.94	51.00	74.00	-23.00	peak
6	15930.000	14.13	40.96	40.57	35.06	49.58	74.00	-24.42	peak



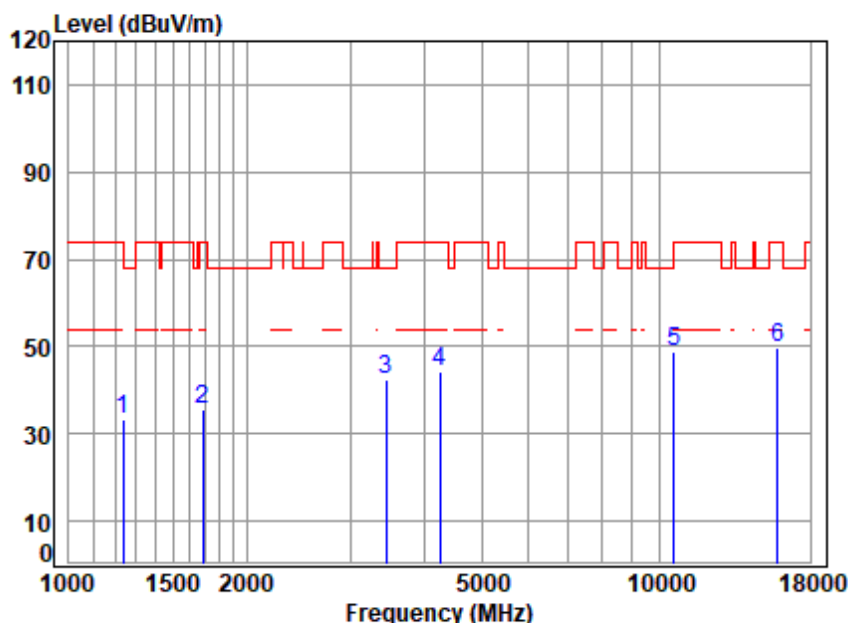
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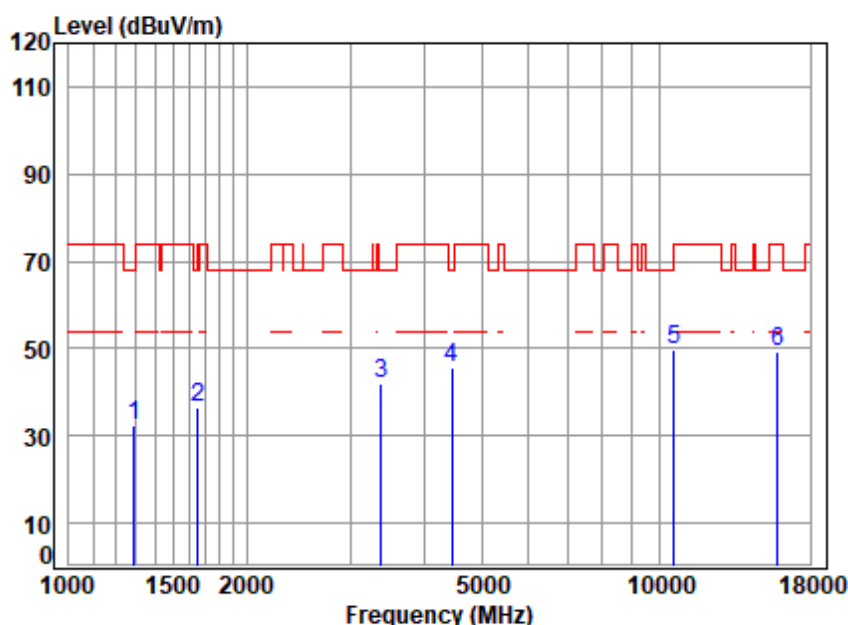
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5290 TX RSE
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	2.83	24.74	40.31	45.85	33.11	74.00	-40.89	peak
2	1687.347	3.42	26.62	40.62	46.04	35.46	74.00	-38.54	peak
3	3445.535	5.45	31.62	41.66	47.02	42.43	68.20	-25.77	peak
4	4242.641	6.52	33.15	42.35	46.89	44.21	74.00	-29.79	peak
5	10580.000	10.60	37.72	38.28	38.99	49.03	68.20	-19.17	peak
6	15870.000	14.11	40.92	40.57	35.14	49.60	74.00	-24.40	peak

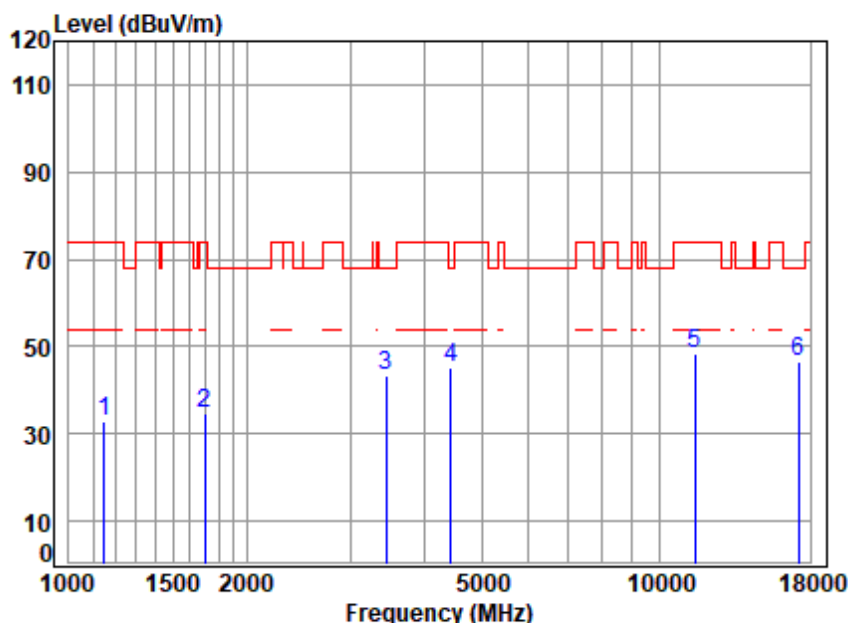
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5290 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	2.92	24.98	40.35	44.91	32.46	68.20	-35.74	peak
2	1653.550	3.39	26.48	40.60	47.17	36.44	68.20	-31.76	peak
3	3386.297	5.38	31.53	41.60	46.78	42.09	68.20	-26.11	peak
4	4456.315	6.72	33.53	42.52	47.91	45.64	68.20	-22.56	peak
5	10580.000	10.60	37.72	38.28	39.67	49.71	68.20	-18.49	peak
6	15870.000	14.11	40.92	40.57	34.74	49.20	74.00	-24.80	peak

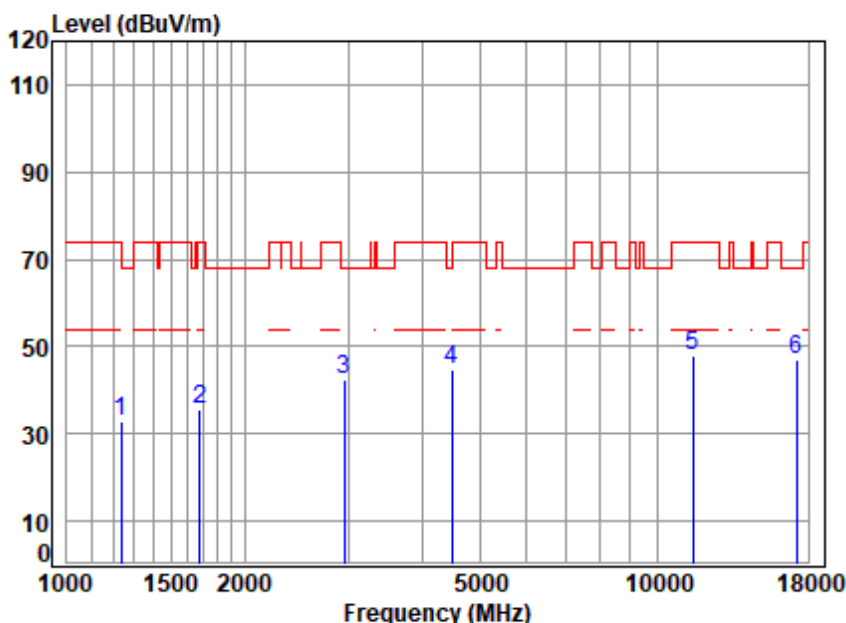
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5745 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	2.67	24.35	40.24	45.96	32.74	74.00	-41.26	peak
2	1697.129	3.43	26.66	40.63	45.33	34.79	74.00	-39.21	peak
3	3445.535	5.45	31.62	41.66	48.15	43.56	68.20	-24.64	peak
4	4443.453	6.71	33.50	42.51	47.43	45.13	68.20	-23.07	peak
5	11490.000	11.62	37.90	38.69	37.40	48.23	74.00	-25.77	peak
6	17235.000	14.09	42.74	40.52	30.17	46.48	68.20	-21.72	peak

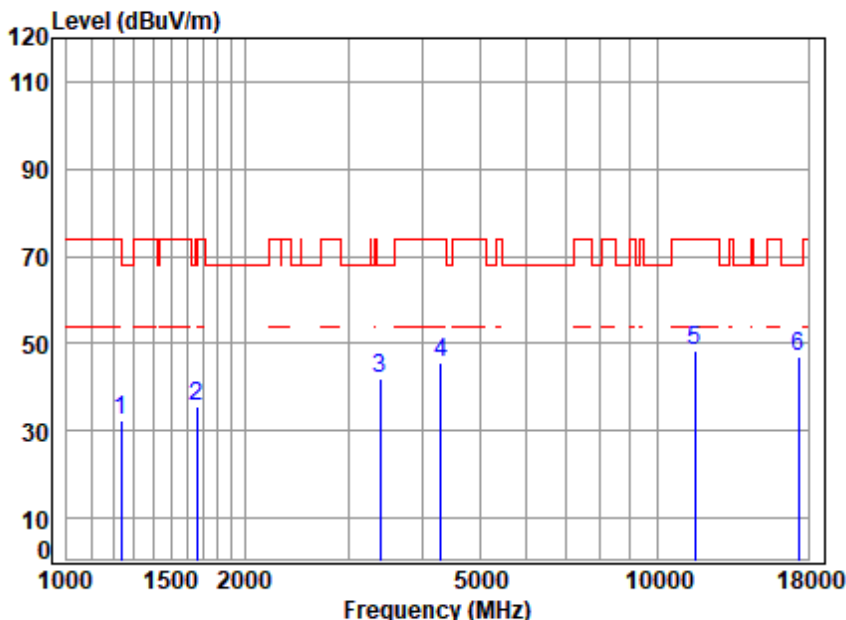
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5745 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	1234.909	2.83	24.74	40.31	45.53	32.79	74.00	-41.21	peak
2	1677.621	3.41	26.58	40.62	46.07	35.44	74.00	-38.56	peak
3	2947.623	4.83	30.69	41.18	47.92	42.26	68.20	-25.94	peak
4	4495.125	6.76	33.59	42.55	46.94	44.74	68.20	-23.46	peak
5	11490.000	11.62	37.90	38.69	37.26	48.09	74.00	-25.91	peak
6	17235.000	14.09	42.74	40.52	30.79	47.10	68.20	-21.10	peak

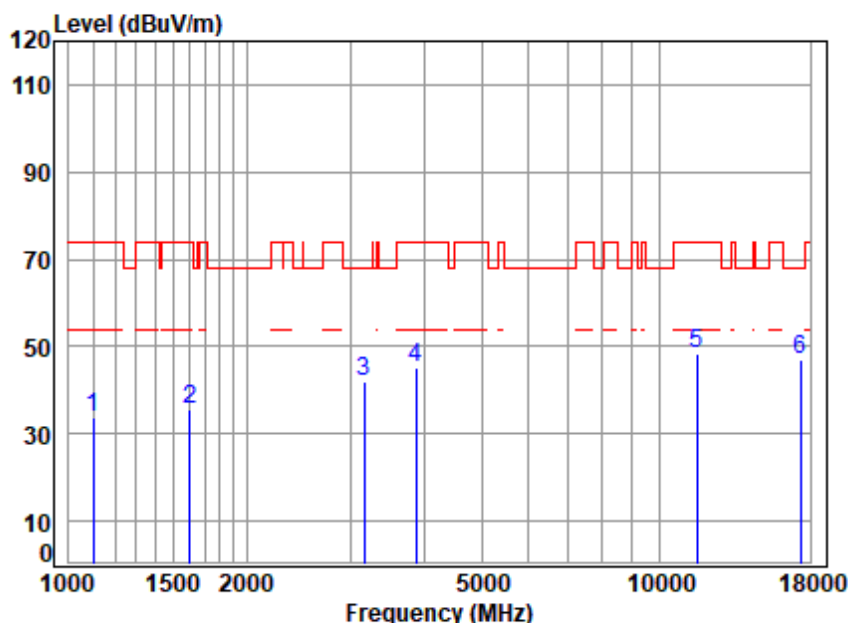
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5785 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	1234.909	2.83	24.74	40.31	44.92	32.18	74.00	-41.82	peak
2	1663.137	3.40	26.52	40.61	46.39	35.70	74.00	-38.30	peak
3	3396.098	5.39	31.54	41.61	46.88	42.20	68.20	-26.00	peak
4	4304.400	6.58	33.26	42.40	48.17	45.61	74.00	-28.39	peak
5	11570.000	11.72	37.87	38.72	37.42	48.29	74.00	-25.71	peak
6	17355.000	14.06	42.81	40.52	30.65	47.00	68.20	-21.20	peak

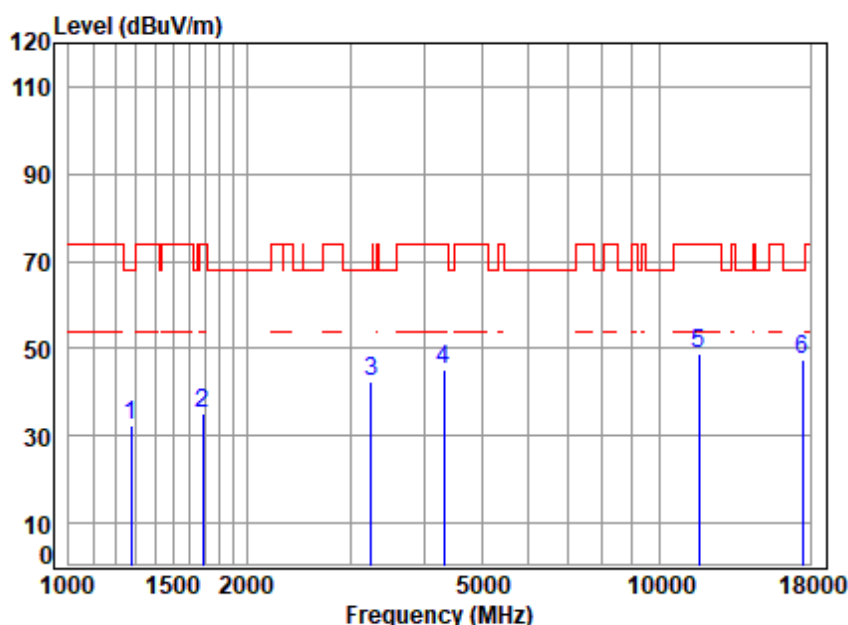
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5785 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	1100.079	2.57	24.12	40.20	47.09	33.58	74.00	-40.42	peak
2	1606.441	3.35	26.28	40.57	46.57	35.63	74.00	-38.37	peak
3	3168.500	5.09	31.18	41.38	47.00	41.89	68.20	-26.31	peak
4	3867.831	6.09	32.45	42.05	48.65	45.14	74.00	-28.86	peak
5	11570.000	11.72	37.87	38.72	37.54	48.41	74.00	-25.59	peak
6	17355.000	14.06	42.81	40.52	30.47	46.82	68.20	-21.38	peak

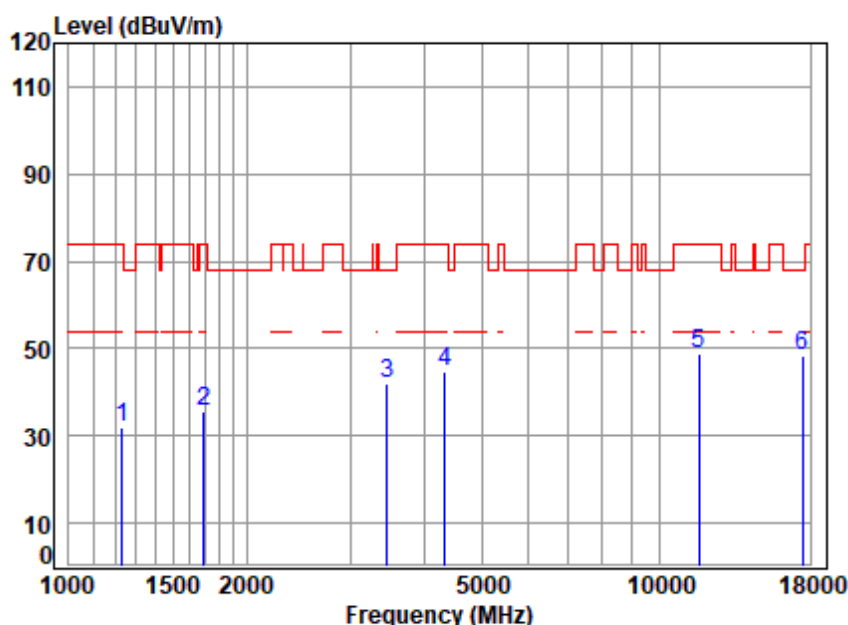
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5825 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	1274.802	2.90	24.92	40.34	45.10	32.58	68.20	-35.62	peak
2	1687.347	3.42	26.62	40.62	45.88	35.30	74.00	-38.70	peak
3	3252.005	5.21	31.32	41.47	47.55	42.61	68.20	-25.59	peak
4	4316.859	6.59	33.28	42.41	47.84	45.30	74.00	-28.70	peak
5	11650.000	11.82	37.84	38.75	38.06	48.97	74.00	-25.03	peak
6	17475.000	14.02	42.89	40.52	30.91	47.30	68.20	-20.90	peak

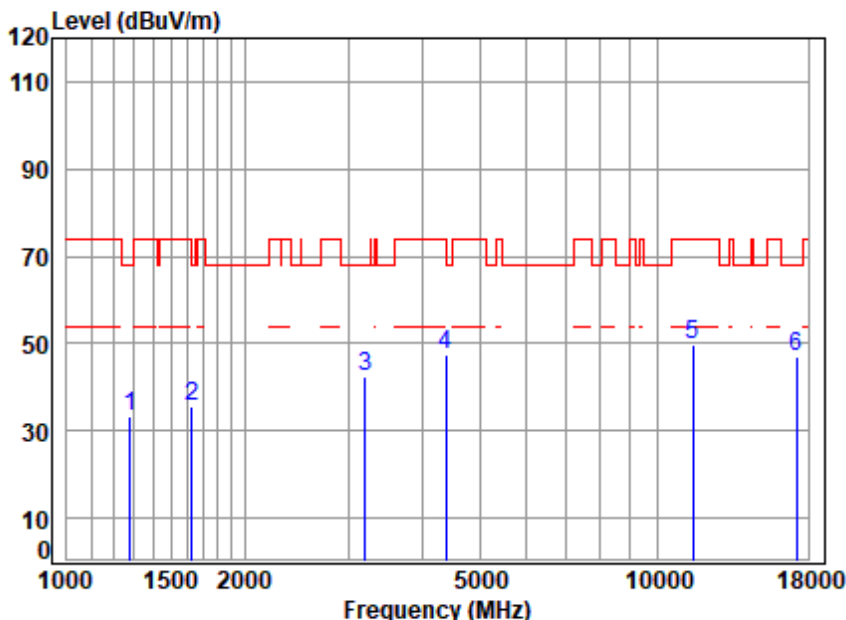
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5825 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	1231.345	2.82	24.73	40.31	44.92	32.16	74.00	-41.84	peak
2	1692.231	3.42	26.64	40.63	45.97	35.40	74.00	-38.60	peak
3	3455.508	5.47	31.63	41.67	46.65	42.08	68.20	-26.12	peak
4	4341.886	6.61	33.33	42.43	47.13	44.64	74.00	-29.36	peak
5	11650.000	11.82	37.84	38.75	38.03	48.94	74.00	-25.06	peak
6	17475.000	14.02	42.89	40.52	31.81	48.20	68.20	-20.00	peak

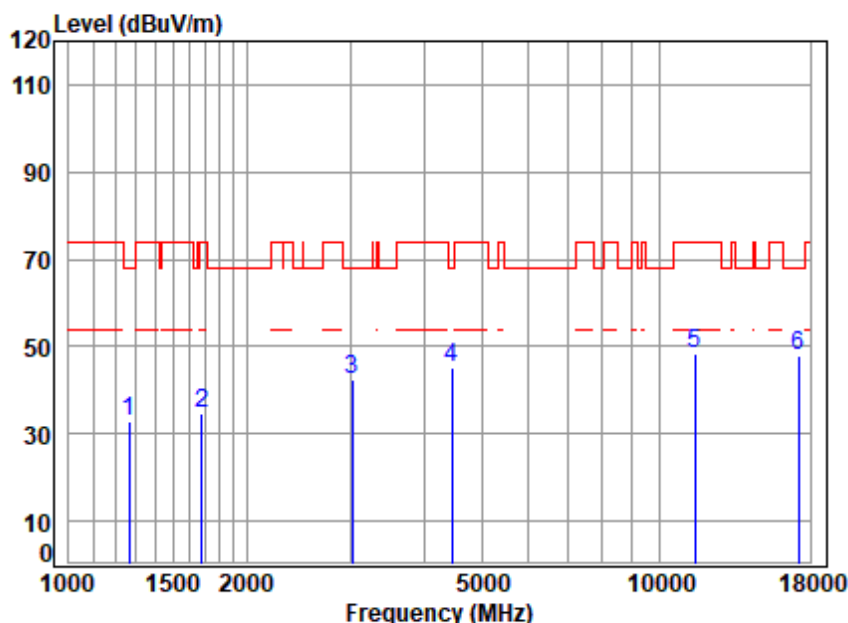
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	2.91	24.95	40.35	45.80	33.31	68.20	-34.89	peak
2	1629.825	3.37	26.38	40.59	46.46	35.62	68.20	-32.58	peak
3	3205.345	5.14	31.24	41.42	47.44	42.40	68.20	-25.80	peak
4	4379.699	6.65	33.39	42.46	49.69	47.27	74.00	-26.73	peak
5	11490.000	11.62	37.90	38.69	39.05	49.88	74.00	-24.12	peak
6	17235.000	14.09	42.74	40.52	30.65	46.96	68.20	-21.24	peak

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

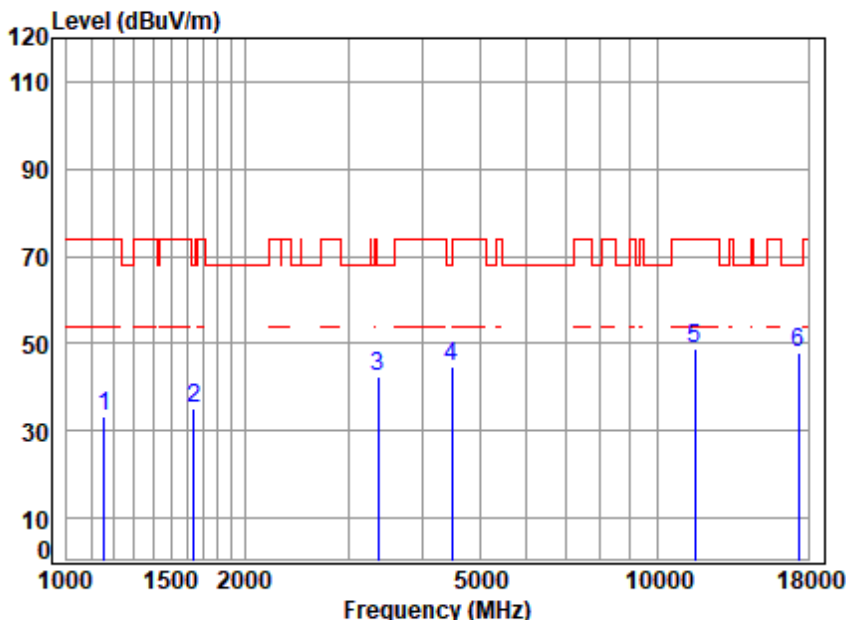
Job No : 10640CR

Mode : 5745 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	1267.454	2.89	24.89	40.34	45.48	32.92	68.20	-35.28	peak
2	1677.621	3.41	26.58	40.62	45.39	34.76	74.00	-39.24	peak
3	3016.575	4.88	30.93	41.22	47.75	42.34	68.20	-25.86	peak
4	4456.315	6.72	33.53	42.52	47.30	45.03	68.20	-23.17	peak
5	11490.000	11.62	37.90	38.69	37.37	48.20	74.00	-25.80	peak
6	17235.000	14.09	42.74	40.52	31.44	47.75	68.20	-20.45	peak

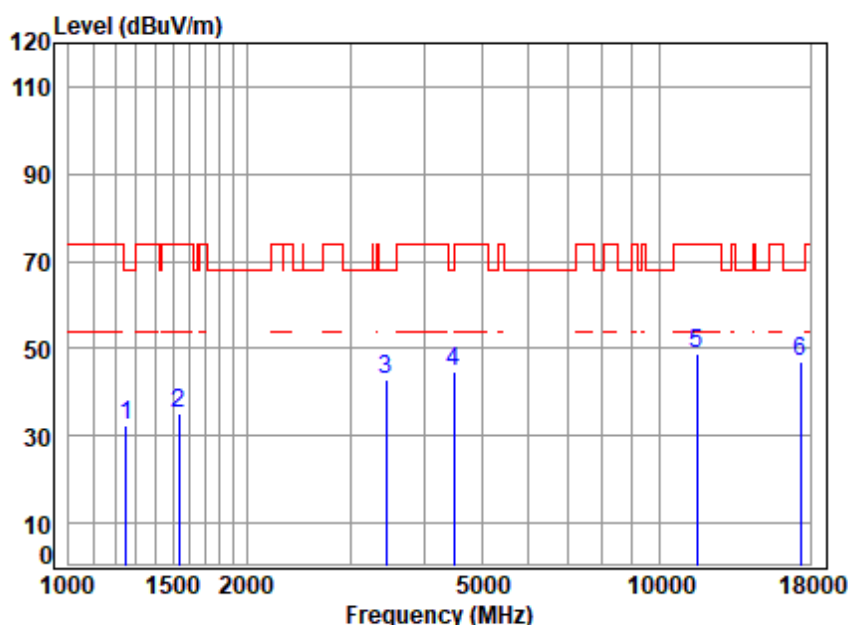
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	2.69	24.40	40.25	46.60	33.44	74.00	-40.56	peak
2	1644.019	3.38	26.44	40.60	46.13	35.35	68.20	-32.85	peak
3	3366.778	5.35	31.50	41.58	47.04	42.31	68.20	-25.89	peak
4	4495.125	6.76	33.59	42.55	46.87	44.67	68.20	-23.53	peak
5	11570.000	11.72	37.87	38.72	37.95	48.82	74.00	-25.18	peak
6	17355.000	14.06	42.81	40.52	31.36	47.71	68.20	-20.49	peak

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

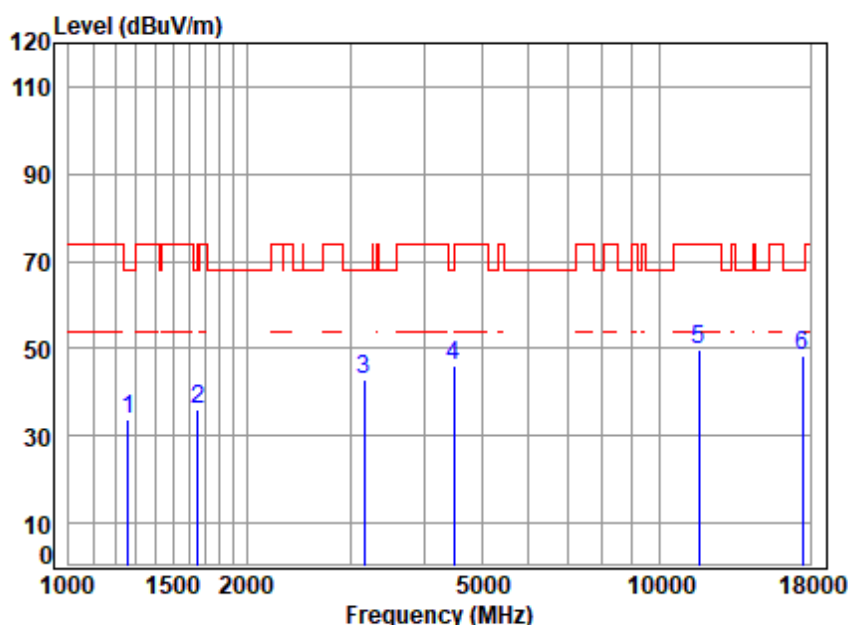
Job No : 10640CR

Mode : 5785 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	2.85	24.81	40.32	45.00	32.34	68.20	-35.86	peak
2	1533.841	3.29	25.96	40.53	46.27	34.99	74.00	-39.01	peak
3	3445.535	5.45	31.62	41.66	47.33	42.74	68.20	-25.46	peak
4	4495.125	6.76	33.59	42.55	46.84	44.64	68.20	-23.56	peak
5	11570.000	11.72	37.87	38.72	37.92	48.79	74.00	-25.21	peak
6	17355.000	14.06	42.81	40.52	30.86	47.21	68.20	-20.99	peak

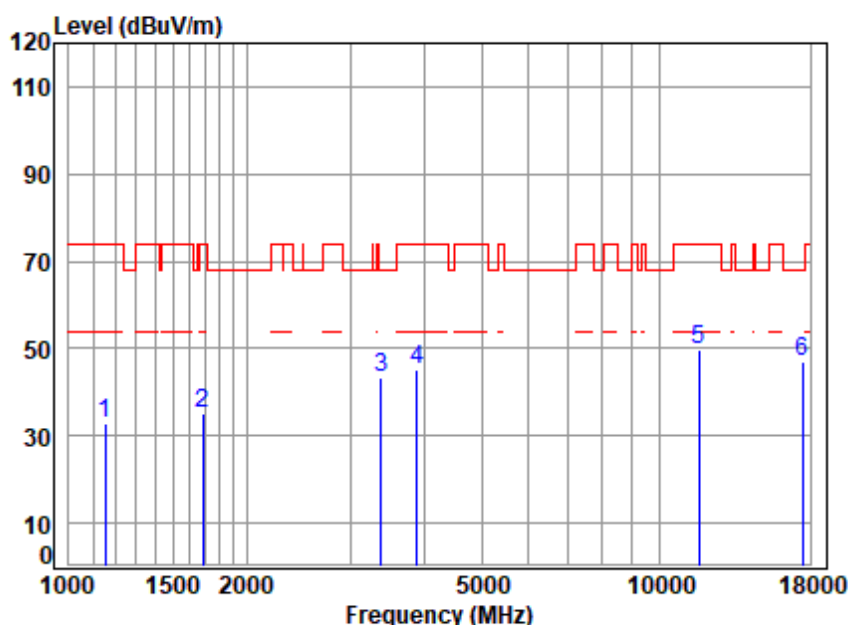
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5825 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	2.87	24.85	40.33	46.21	33.60	68.20	-34.60	peak
2	1653.550	3.39	26.48	40.60	46.81	36.08	68.20	-32.12	peak
3	3168.500	5.09	31.18	41.38	47.98	42.87	68.20	-25.33	peak
4	4495.125	6.76	33.59	42.55	48.44	46.24	68.20	-21.96	peak
5	11650.000	11.82	37.84	38.75	38.98	49.89	74.00	-24.11	peak
6	17475.000	14.02	42.89	40.52	32.00	48.39	68.20	-19.81	peak

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

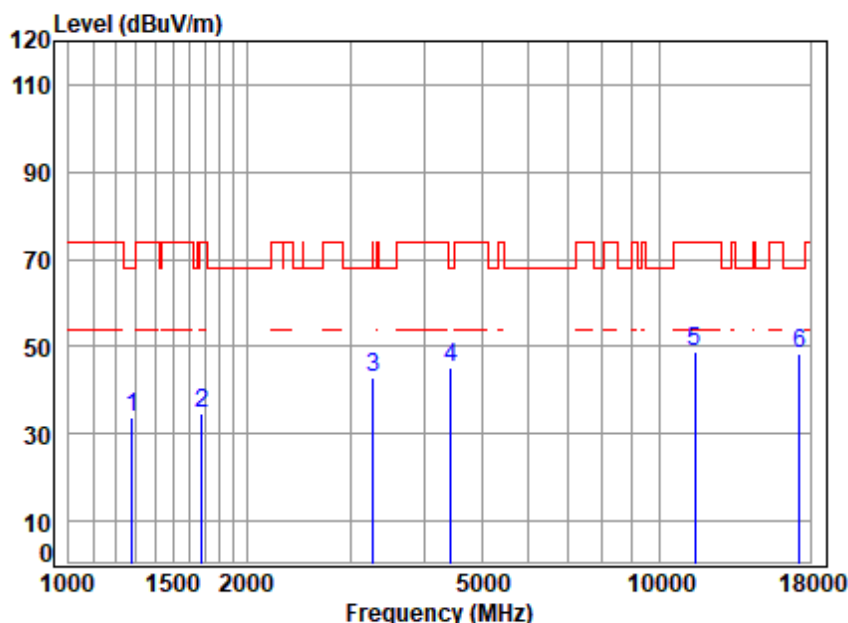
Job No : 10640CR

Mode : 5825 TX RSE

Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	40.24	45.87	32.67	74.00	-41.33	peak
2	1687.347	3.42	26.62	40.62	45.54	34.96	74.00	-39.04	peak
3	3386.297	5.38	31.53	41.60	47.87	43.18	68.20	-25.02	peak
4	3890.255	6.12	32.49	42.06	48.44	44.99	74.00	-29.01	peak
5	11650.000	11.82	37.84	38.75	38.91	49.82	74.00	-24.18	peak
6	17475.000	14.02	42.89	40.52	30.74	47.13	68.20	-21.07	peak

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5755 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	1282.193	2.91	24.95	40.35	46.47	33.98	68.20	-34.22	peak
2	1682.477	3.42	26.60	40.62	45.50	34.90	74.00	-39.10	peak
3	3280.326	5.24	31.36	41.50	47.61	42.71	68.20	-25.49	peak
4	4443.453	6.71	33.50	42.51	47.54	45.24	68.20	-22.96	peak
5	11510.000	11.64	37.90	38.69	37.96	48.81	74.00	-25.19	peak
6	17265.000	14.08	42.76	40.52	31.90	48.22	68.20	-19.98	peak



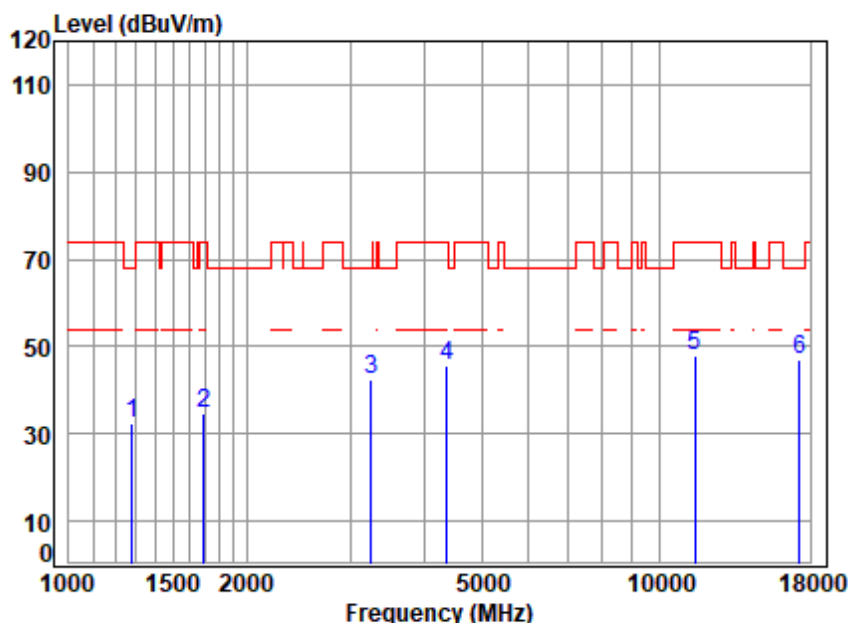
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Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

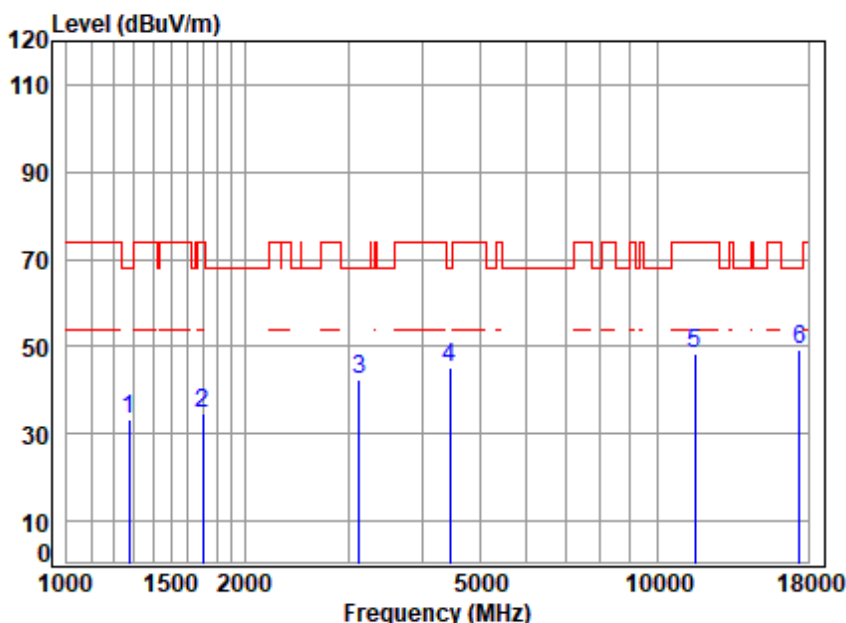
Job No : 10640CR

Mode : 5755 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	1282.193	2.91	24.95	40.35	45.06	32.57	68.20	-35.63	peak
2	1692.231	3.42	26.64	40.63	45.43	34.86	74.00	-39.14	peak
3	3252.005	5.21	31.32	41.47	47.24	42.30	68.20	-25.90	peak
4	4367.058	6.64	33.37	42.45	47.87	45.43	74.00	-28.57	peak
5	11510.000	11.64	37.90	38.69	37.11	47.96	74.00	-26.04	peak
6	17265.000	14.08	42.76	40.52	30.60	46.92	68.20	-21.28	peak

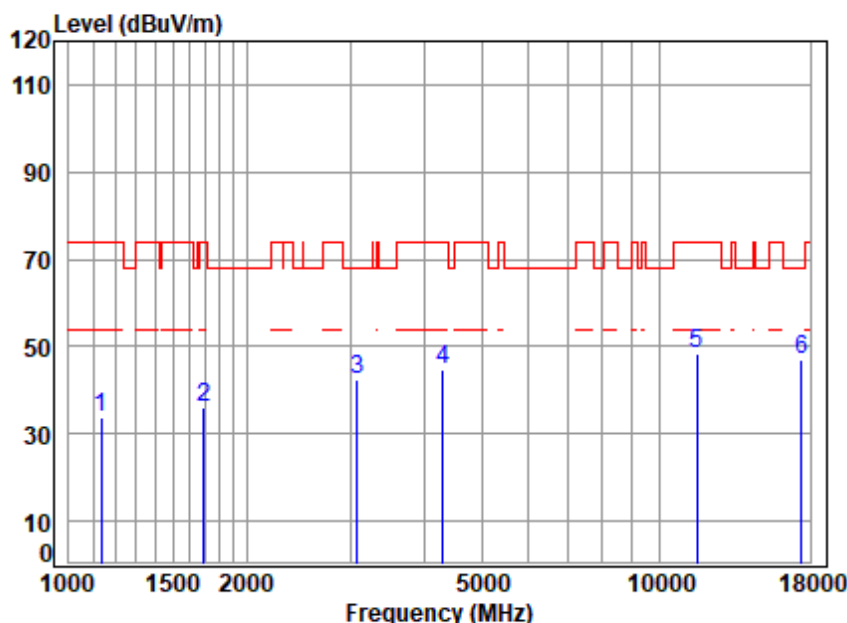
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5795 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	2.90	24.92	40.34	45.80	33.28	68.20	-34.92	peak
2	1702.042	3.43	26.68	40.63	45.07	34.55	74.00	-39.45	peak
3	3123.039	5.03	31.11	41.33	47.40	42.21	68.20	-25.99	peak
4	4456.315	6.72	33.53	42.52	47.22	44.95	68.20	-23.25	peak
5	11590.000	11.74	37.86	38.73	37.33	48.20	74.00	-25.80	peak
6	17385.000	14.05	42.83	40.52	32.88	49.24	68.20	-18.96	peak

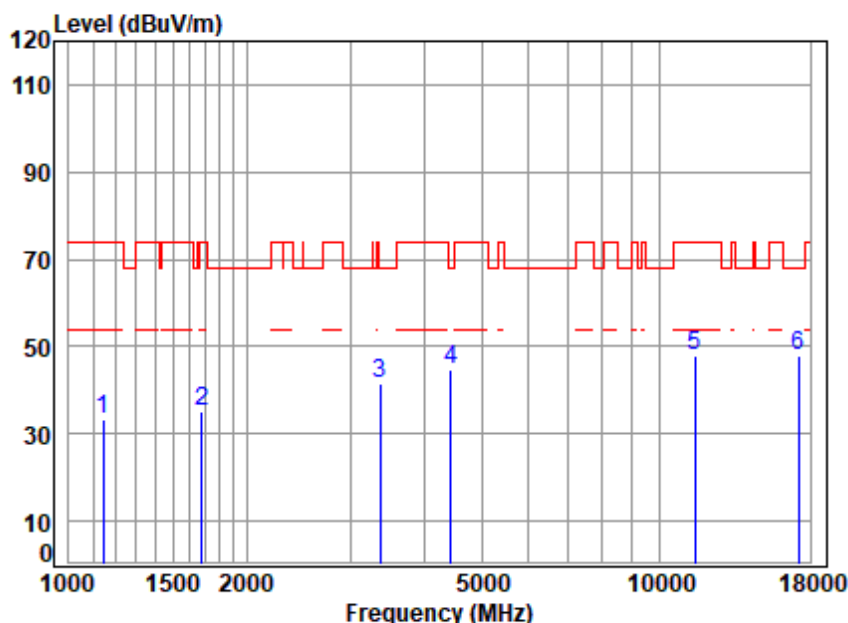
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5795 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	1135.617	2.64	24.29	40.23	47.15	33.85	74.00	-40.15	peak
2	1692.231	3.42	26.64	40.63	46.57	36.00	74.00	-38.00	peak
3	3078.229	4.97	31.03	41.29	47.64	42.35	68.20	-25.85	peak
4	4304.400	6.58	33.26	42.40	47.29	44.73	74.00	-29.27	peak
5	11590.000	11.74	37.86	38.73	37.66	48.53	74.00	-25.47	peak
6	17385.000	14.05	42.83	40.52	30.80	47.16	68.20	-21.04	peak

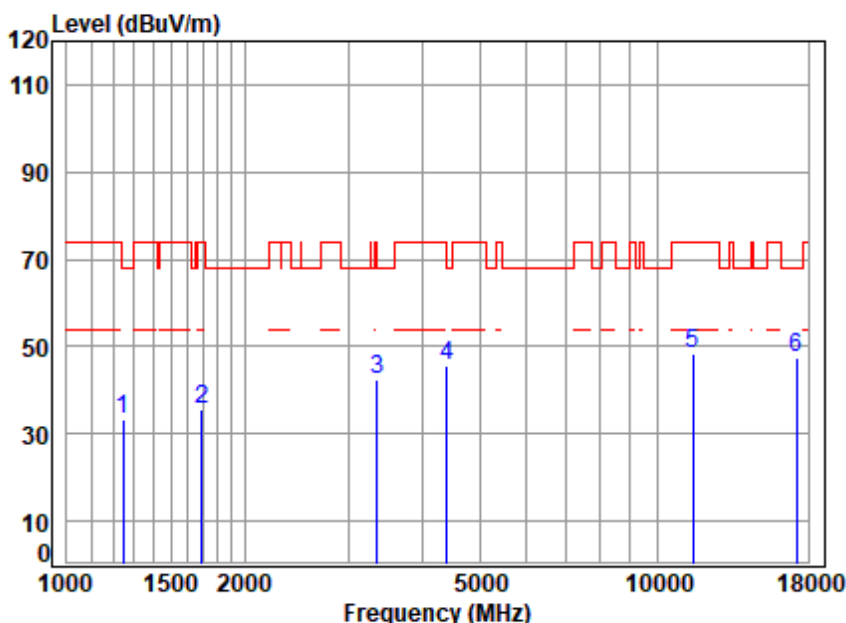
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

	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	1145.507	2.66	24.34	40.24	46.68	33.44	74.00	-40.56	peak
2	1677.621	3.41	26.58	40.62	45.86	35.23	74.00	-38.77	peak
3	3366.778	5.35	31.50	41.58	46.23	41.50	68.20	-26.70	peak
4	4430.628	6.70	33.48	42.50	47.16	44.84	68.20	-23.36	peak
5	11490.000	11.62	37.90	38.69	36.99	47.82	74.00	-26.18	peak
6	17235.000	14.09	42.74	40.52	31.71	48.02	68.20	-20.18	peak

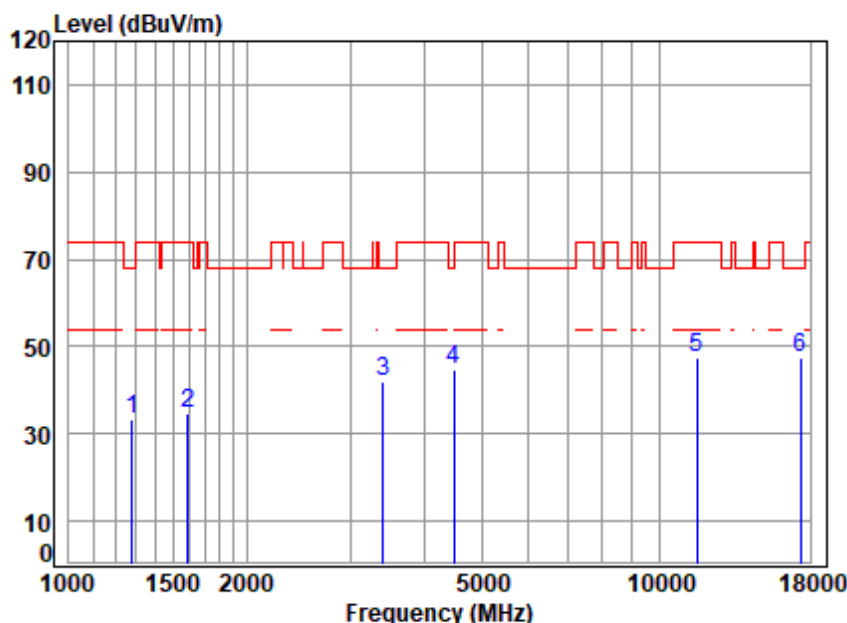
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5745 TX RSE
Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	2.85	24.79	40.32	45.90	33.22	68.20	-34.98	peak
2	1692.231	3.42	26.64	40.63	46.27	35.70	74.00	-38.30	peak
3	3357.061	5.34	31.48	41.57	47.37	42.62	74.00	-31.38	peak
4	4405.090	6.67	33.44	42.48	47.89	45.52	68.20	-22.68	peak
5	11490.000	11.62	37.90	38.69	37.52	48.35	74.00	-25.65	peak
6	17235.000	14.09	42.74	40.52	31.31	47.62	68.20	-20.58	peak

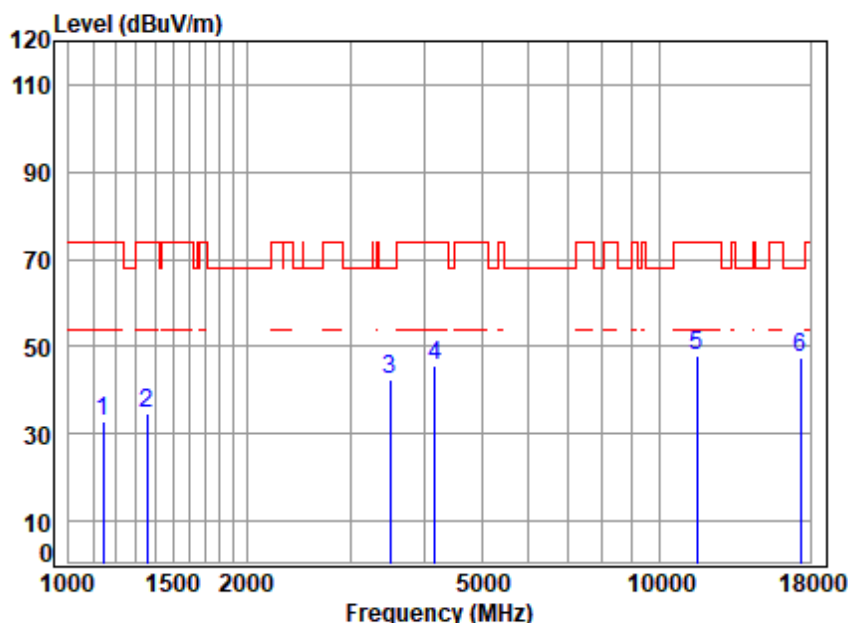
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

	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	2.91	24.95	40.35	45.74	33.25	68.20	-34.95	peak
2	1592.571	3.34	26.22	40.57	45.76	34.75	74.00	-39.25	peak
3	3405.929	5.40	31.56	41.62	46.75	42.09	68.20	-26.11	peak
4	4482.150	6.74	33.57	42.54	46.97	44.74	68.20	-23.46	peak
5	11570.000	11.72	37.87	38.72	36.67	47.54	74.00	-26.46	peak
6	17355.000	14.06	42.81	40.52	31.05	47.40	68.20	-20.80	peak

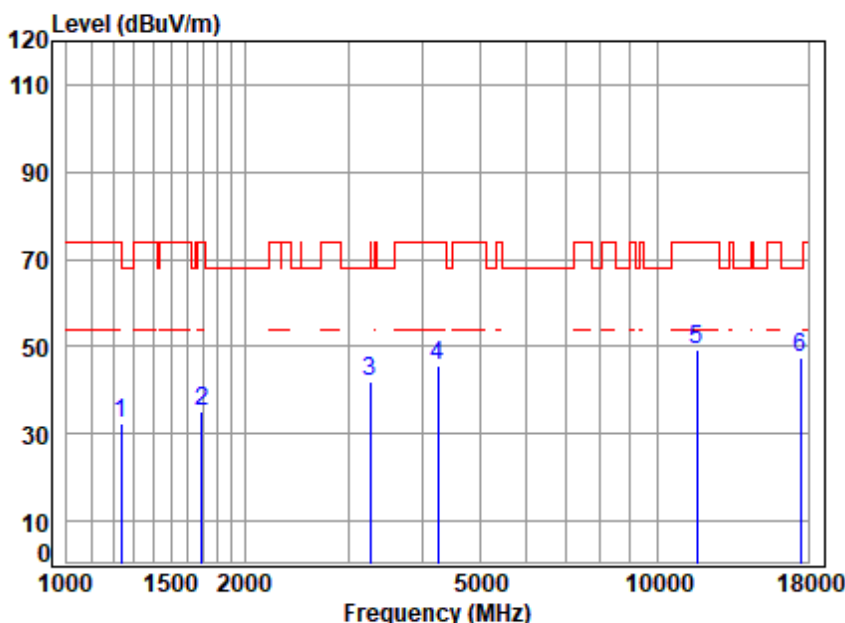
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5785 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.201	2.66	24.32	40.23	45.97	32.72	74.00	-41.28	peak
2	1354.577	3.03	25.25	40.40	47.02	34.90	74.00	-39.10	peak
3	3495.691	5.51	31.69	41.71	46.93	42.42	68.20	-25.78	peak
4	4169.698	6.45	33.02	42.30	48.57	45.74	74.00	-28.26	peak
5	11570.000	11.72	37.87	38.72	36.98	47.85	74.00	-26.15	peak
6	17355.000	14.06	42.81	40.52	31.05	47.40	68.20	-20.80	peak

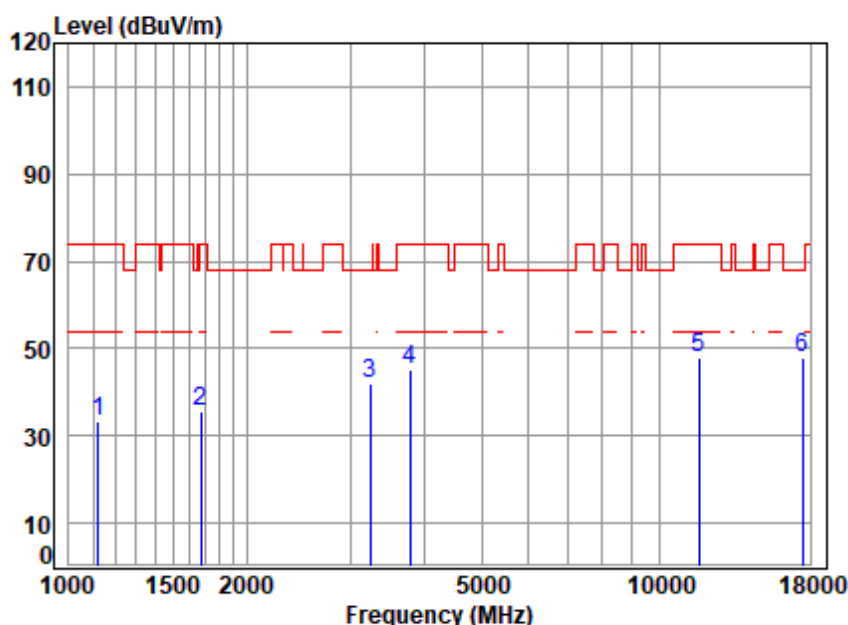
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	2.83	24.76	40.31	45.20	32.48	74.00	-41.52	peak
2	1692.231	3.42	26.64	40.63	45.79	35.22	74.00	-38.78	peak
3	3261.418	5.22	31.33	41.48	46.95	42.02	74.00	-31.98	peak
4	4254.921	6.53	33.17	42.36	48.29	45.63	74.00	-28.37	peak
5	11650.000	11.82	37.84	38.75	38.31	49.22	74.00	-24.78	peak
6	17475.000	14.02	42.89	40.52	31.02	47.41	68.20	-20.79	peak

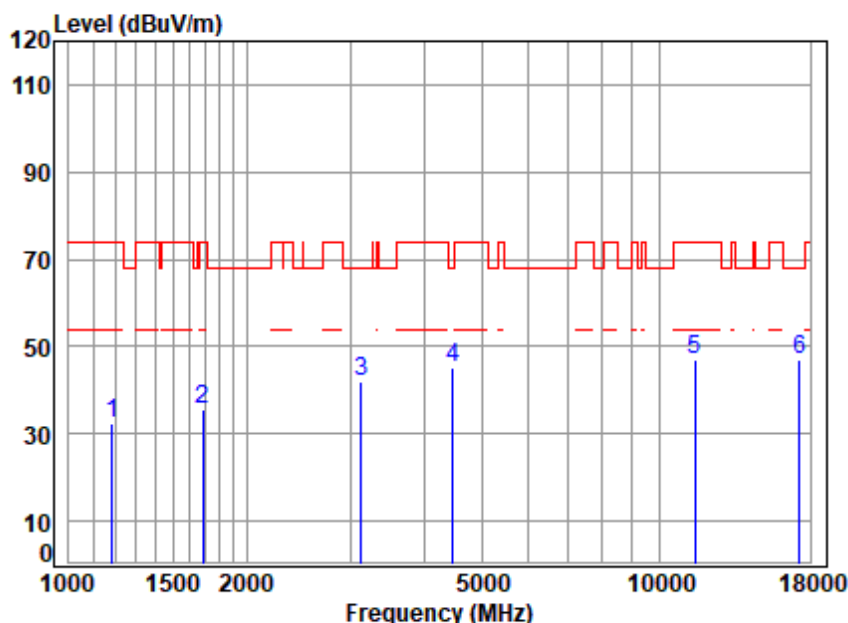
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5825 TX RSE
Note : 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1122.563	2.62	24.23	40.22	46.53	33.16	74.00	-40.84	peak
2	1672.779	3.41	26.56	40.62	46.26	35.61	74.00	-38.39	peak
3	3242.619	5.19	31.30	41.46	46.74	41.77	68.20	-26.43	peak
4	3779.422	5.96	32.28	41.97	48.77	45.04	74.00	-28.96	peak
5	11650.000	11.82	37.84	38.75	37.22	48.13	74.00	-25.87	peak
6	17475.000	14.02	42.89	40.52	31.58	47.97	68.20	-20.23	peak

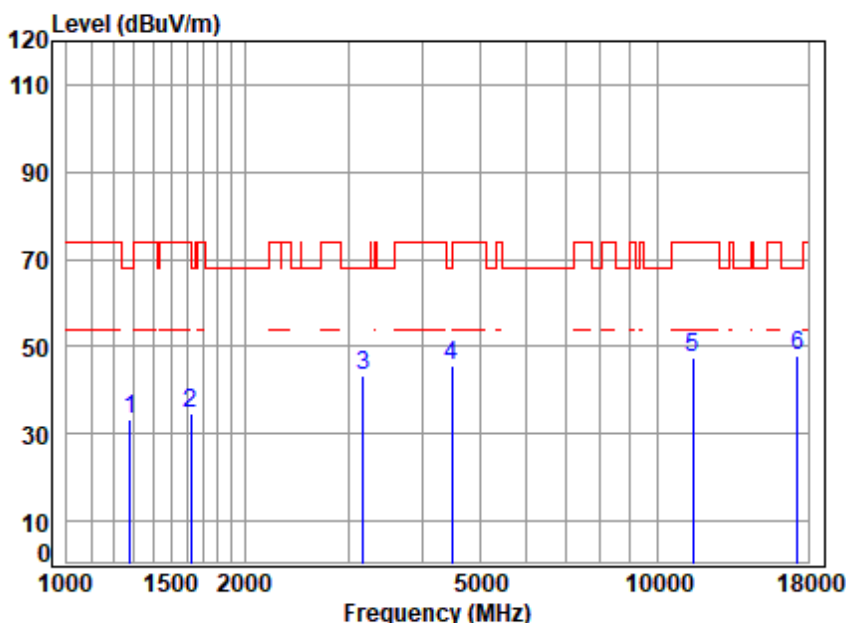
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

	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	2.74	24.53	40.27	45.43	32.43	74.00	-41.57	peak
2	1687.347	3.42	26.62	40.62	46.04	35.46	74.00	-38.54	peak
3	3123.039	5.03	31.11	41.33	47.35	42.16	68.20	-26.04	peak
4	4469.214	6.73	33.55	42.53	47.61	45.36	68.20	-22.84	peak
5	11510.000	11.64	37.90	38.69	36.29	47.14	74.00	-26.86	peak
6	17265.000	14.08	42.76	40.52	30.67	46.99	68.20	-21.21	peak

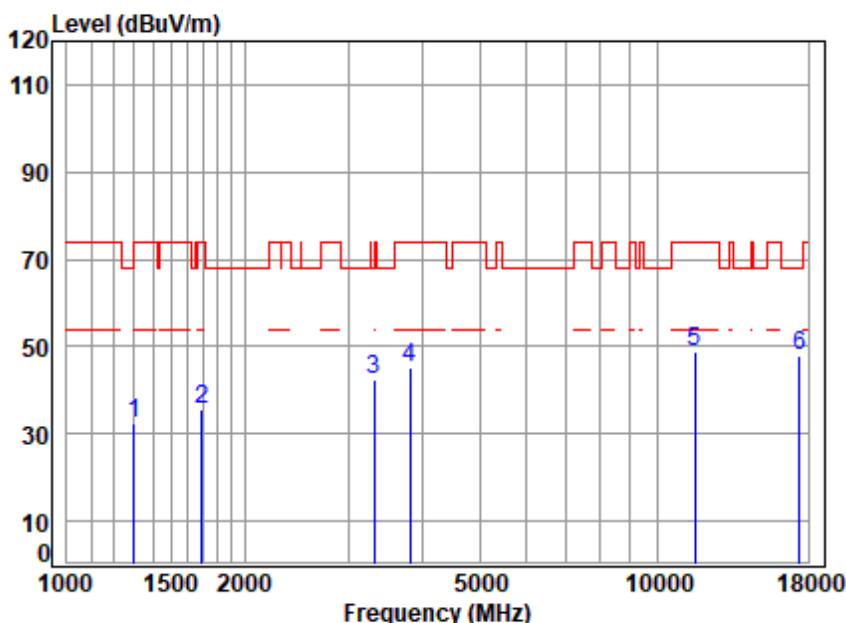
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5755 TX RSE
Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	2.91	24.93	40.35	46.02	33.51	68.20	-34.69	peak
2	1620.431	3.36	26.34	40.58	45.55	34.67	74.00	-39.33	peak
3	3177.672	5.11	31.20	41.39	48.53	43.45	68.20	-24.75	peak
4	4495.125	6.76	33.59	42.55	47.64	45.44	68.20	-22.76	peak
5	11510.000	11.64	37.90	38.69	36.49	47.34	74.00	-26.66	peak
6	17265.000	14.08	42.76	40.52	31.66	47.98	68.20	-20.22	peak

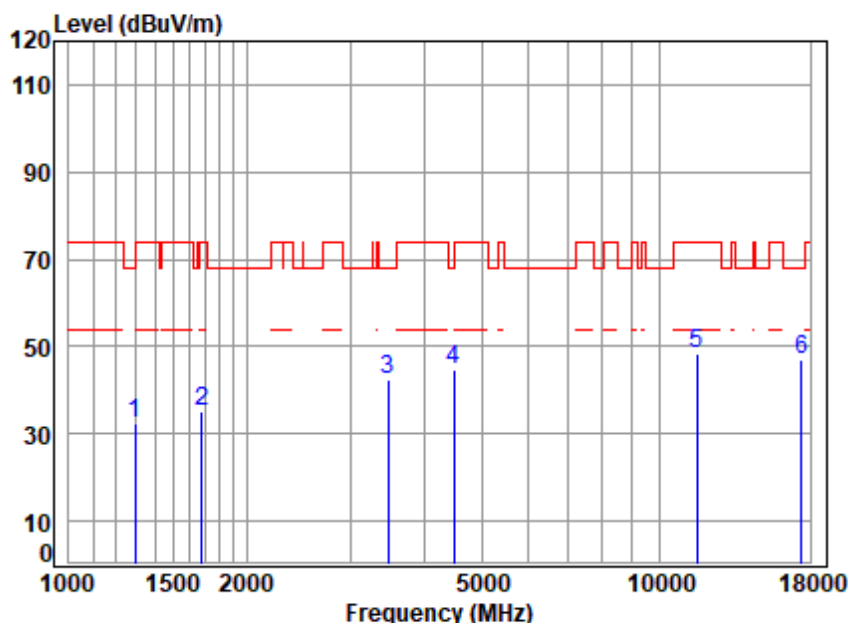
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

	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	1300.858	2.94	25.03	40.36	44.79	32.40	74.00	-41.60	peak
2	1692.231	3.42	26.64	40.63	46.16	35.59	74.00	-38.41	peak
3	3318.471	5.29	31.42	41.54	47.04	42.21	68.20	-25.99	peak
4	3812.336	6.01	32.34	42.00	48.74	45.09	74.00	-28.91	peak
5	11590.000	11.74	37.86	38.73	38.01	48.88	74.00	-25.12	peak
6	17385.000	14.05	42.83	40.52	31.74	48.10	68.20	-20.10	peak

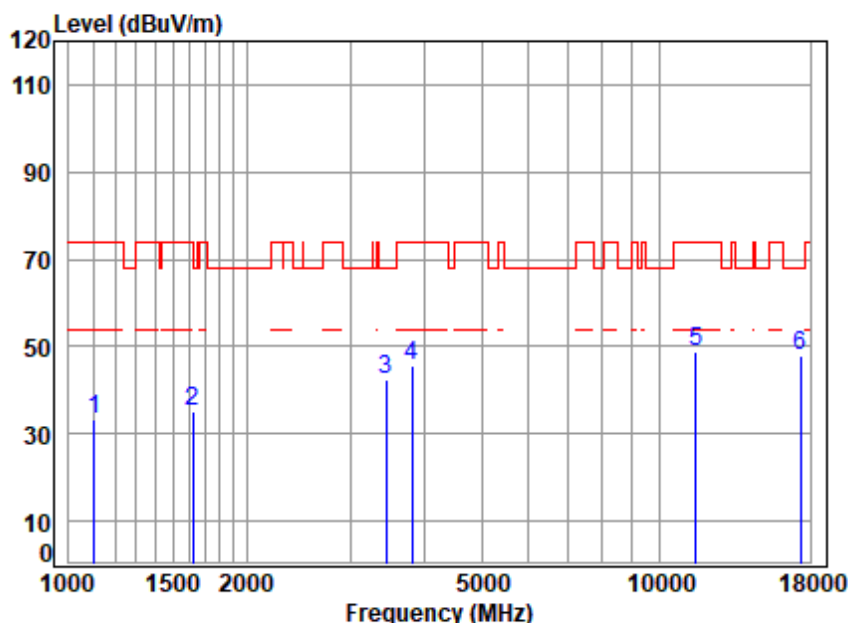
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5795 TX RSE
Note : 5G WIFI 11AC40

	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	2.94	25.01	40.36	44.87	32.46	68.20	-35.74	peak
2	1677.621	3.41	26.58	40.62	45.87	35.24	74.00	-38.76	peak
3	3475.541	5.49	31.66	41.69	46.89	42.35	68.20	-25.85	peak
4	4495.125	6.76	33.59	42.55	46.99	44.79	68.20	-23.41	peak
5	11590.000	11.74	37.86	38.73	37.62	48.49	74.00	-25.51	peak
6	17385.000	14.05	42.83	40.52	30.47	46.83	68.20	-21.37	peak

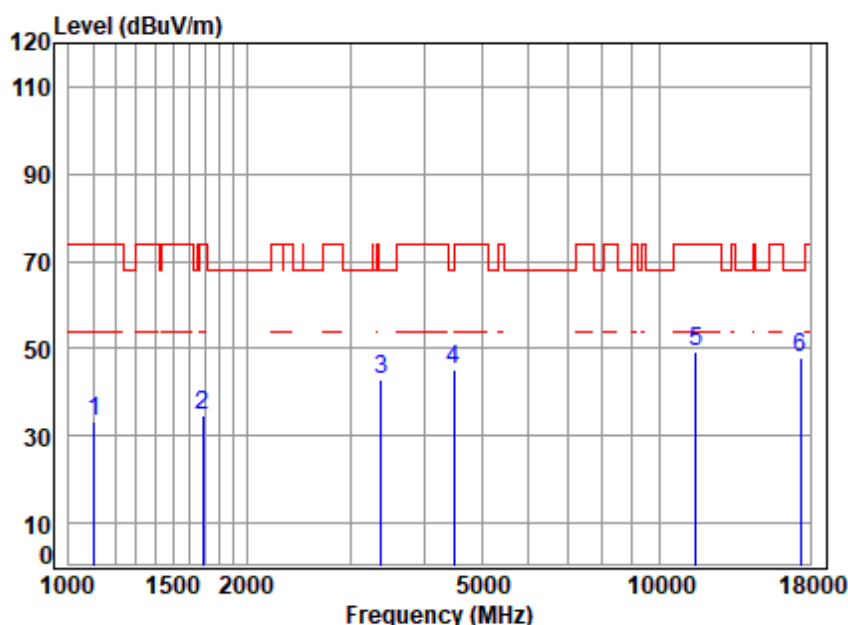
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1106.457	2.58	24.15	40.20	46.59	33.12	74.00	-40.88	peak
2	1620.431	3.36	26.34	40.58	45.79	34.91	74.00	-39.09	peak
3	3445.535	5.45	31.62	41.66	46.88	42.29	68.20	-25.91	peak
4	3812.336	6.01	32.34	42.00	49.15	45.50	74.00	-28.50	peak
5	11550.000	11.69	37.88	38.71	38.00	48.86	74.00	-25.14	peak
6	17325.000	14.07	42.80	40.52	31.45	47.80	68.20	-20.40	peak

Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5775 TX RSE
Note : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1103.264	2.58	24.13	40.20	46.63	33.14	74.00	-40.86	peak
2	1687.347	3.42	26.62	40.62	45.19	34.61	74.00	-39.39	peak
3	3376.523	5.37	31.51	41.59	47.79	43.08	68.20	-25.12	peak
4	4495.125	6.76	33.59	42.55	47.40	45.20	68.20	-23.00	peak
5	11550.000	11.69	37.88	38.71	38.24	49.10	74.00	-24.90	peak
6	17325.000	14.07	42.80	40.52	31.41	47.76	68.20	-20.44	peak

7.9 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

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
Above 960	500	3

* Frequency in CFR 15.205 Restricted Band.

Note: Frequency in non-Restricted Band:

(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.

(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.

(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.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(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.

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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C

Humidity: 49.7 % RH

Atmospheric Pressure: 1015 mbar



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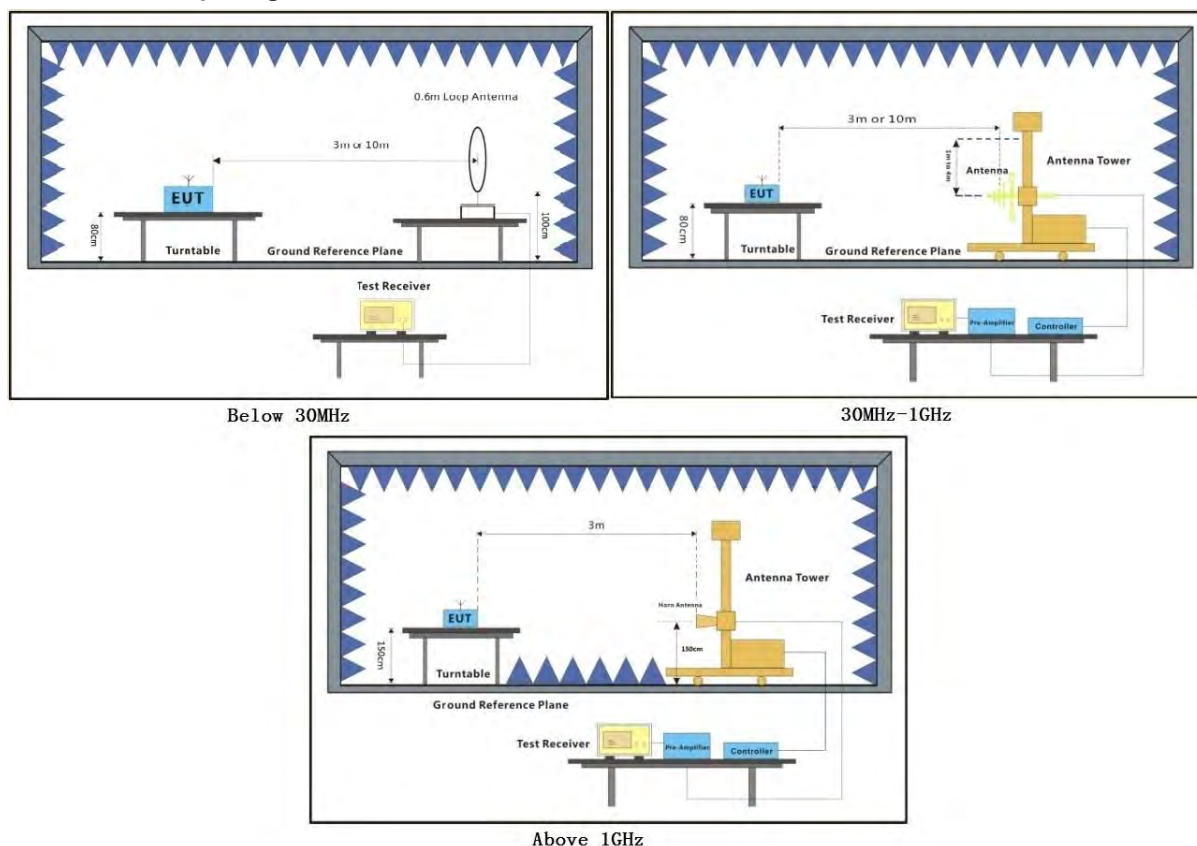
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7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	12	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	14	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram

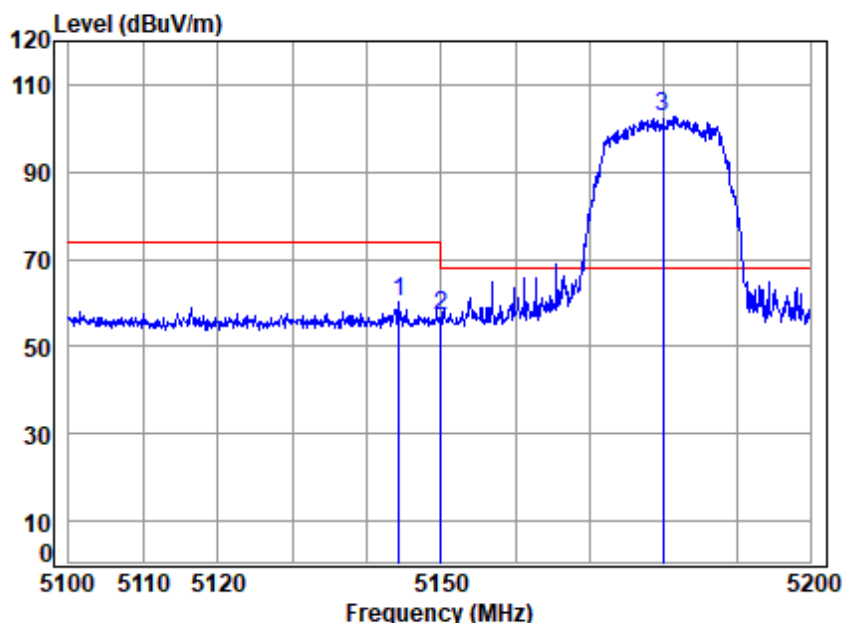


7.9.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. 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.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

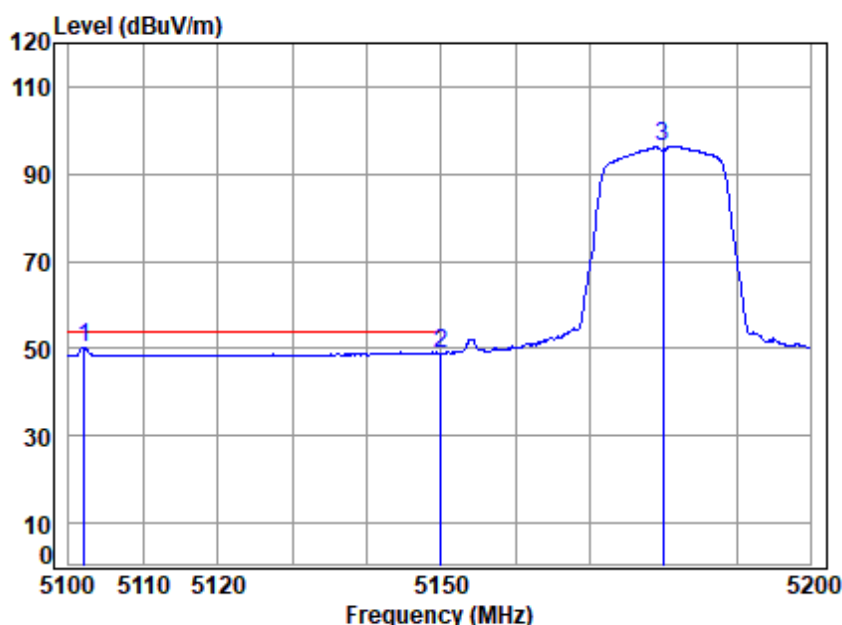
Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.360	7.56	34.32	42.80	61.01	60.09	74.00	-13.91	peak
2	5149.980	7.57	34.32	42.79	57.83	56.93	74.00	-17.07	peak
3 *	5180.000	7.63	34.35	42.77	103.43	102.64	68.20	34.44	peak

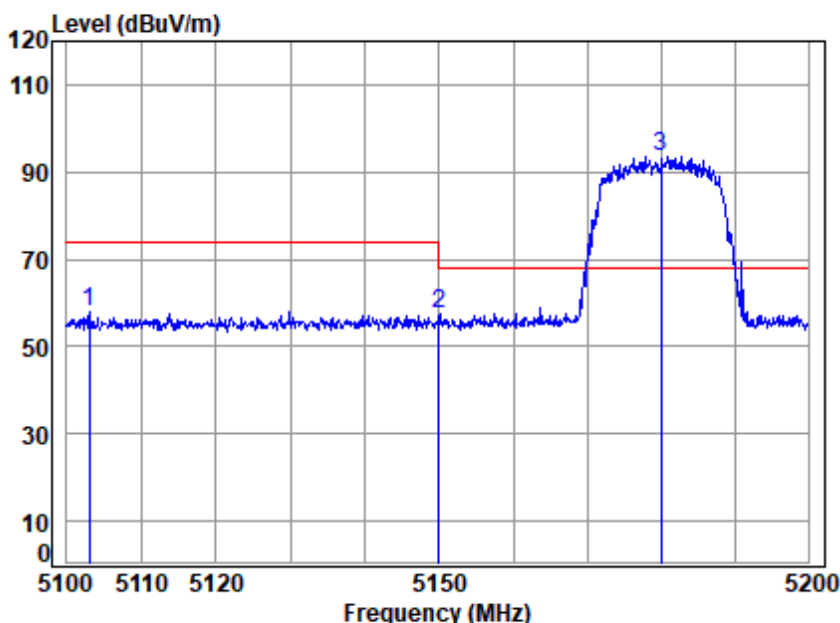
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5102.080	7.49	34.28	42.83	51.40	50.34	54.00	-3.66	Average
2	5149.980	7.57	34.32	42.79	49.95	49.05	54.00	-4.95	Average
3	5180.000	7.63	34.35	42.77	97.15	96.36	-----	-----	Average

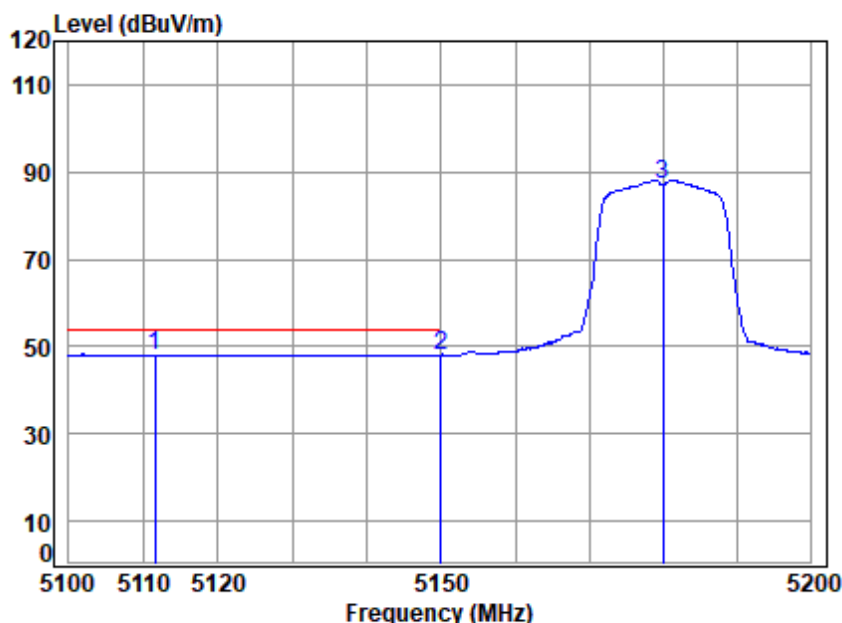
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5102.972	7.49	34.29	42.83	58.83	57.78	74.00	-16.22	Peak
2	5149.980	7.57	34.32	42.79	58.54	57.64	74.00	-16.36	Peak
3 *	5180.000	7.63	34.35	42.77	94.47	93.68	68.20	25.48	Peak

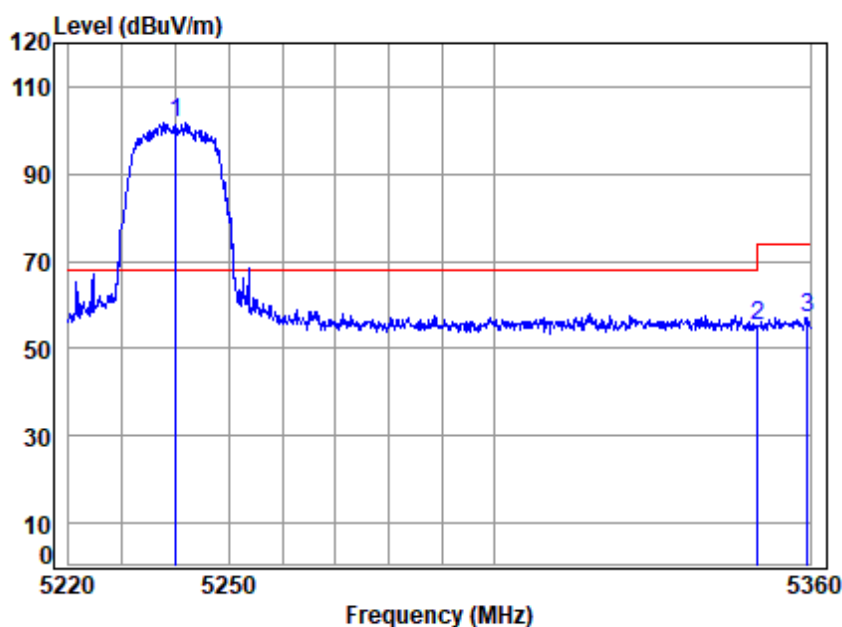
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5111.600	7.50	34.29	42.82	48.94	47.91	54.00	-6.09	Peak
2	5149.980	7.57	34.32	42.79	48.91	48.01	54.00	-5.99	Peak
3	5180.000	7.63	34.35	42.77	88.17	87.38	-----	-----	Peak

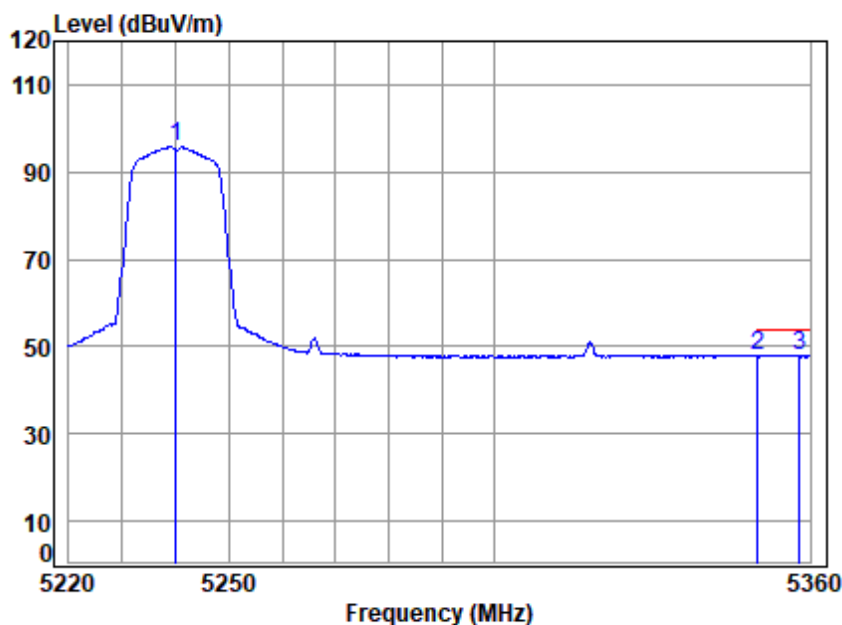
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5240 Band edge
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.73	102.37	101.77	68.20	33.57	peak
2 5350.020	7.92	34.48	42.66	55.61	55.35	74.00	-18.65	peak
3 5359.574	7.94	34.49	42.65	57.39	57.17	74.00	-16.83	peak

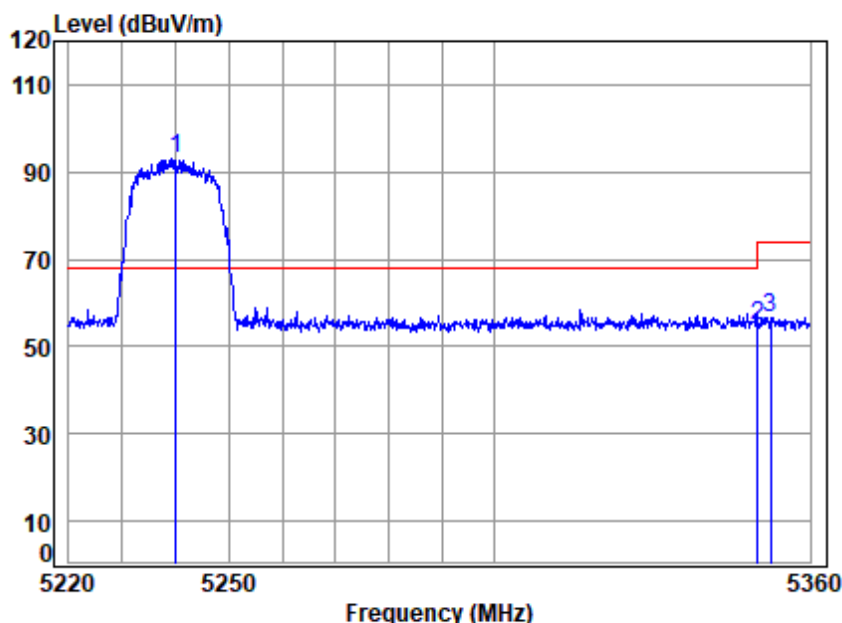
Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.73	34.40	42.73	96.35	95.75	-----	-----	Average
2	5350.020	7.92	34.48	42.66	47.98	47.72	54.00	-6.28	Average
3	5358.014	7.94	34.49	42.65	48.10	47.88	54.00	-6.12	Average

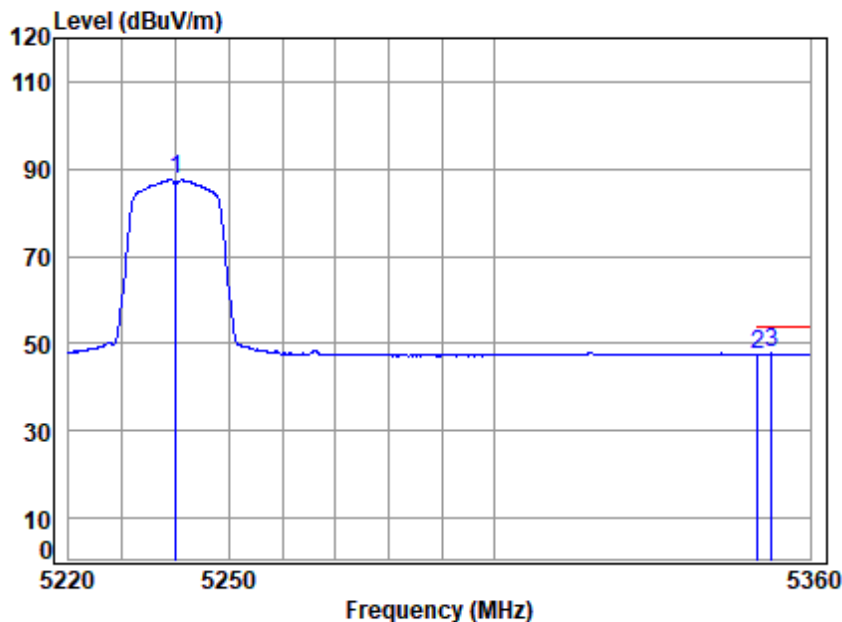
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5240 Band edge
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.73	93.69	93.09	68.20	24.89	Peak
2 5350.020	7.92	34.48	42.66	55.22	54.96	74.00	-19.04	Peak
3 5352.487	7.93	34.49	42.65	57.00	56.77	74.00	-17.23	Peak

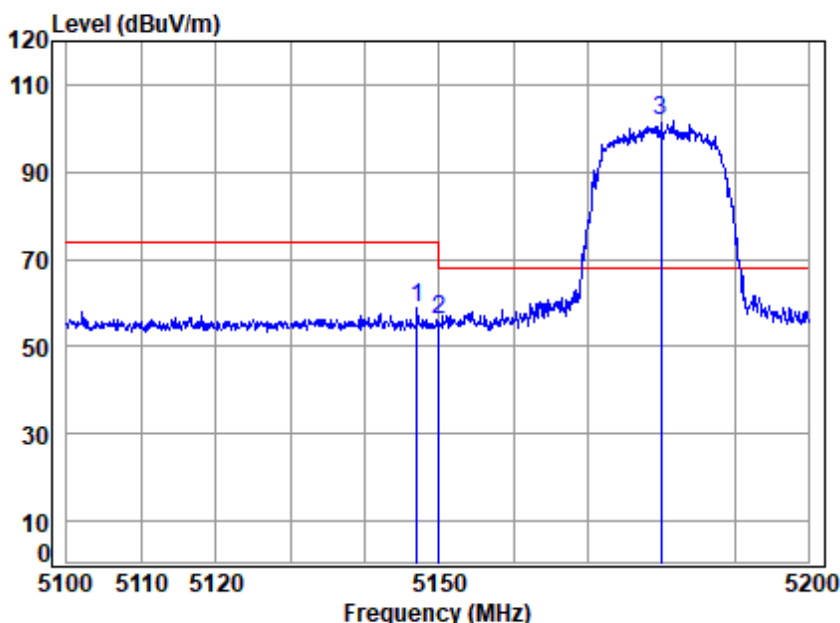
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5240 Band edge
: 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	5240.000	7.73	34.40	42.73	88.10	87.50	-----	-----	Average
2	5350.020	7.92	34.48	42.66	47.83	47.57	54.00	-6.43	Average
3	5352.628	7.93	34.49	42.65	48.04	47.81	54.00	-6.19	Average

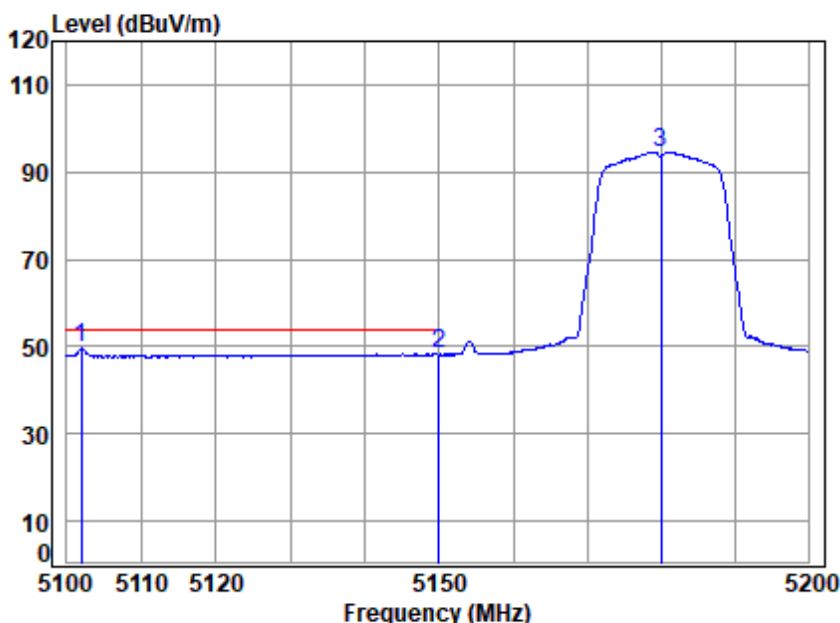
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.058	7.57	34.32	42.80	59.68	58.77	74.00	-15.23	peak
2	5149.980	7.57	34.32	42.79	57.18	56.28	74.00	-17.72	peak
3 *	5180.000	7.63	34.35	42.77	102.59	101.80	68.20	33.60	peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5101.882	7.49	34.28	42.83	50.60	49.54	54.00	-4.46	Average
2	5149.980	7.57	34.32	42.79	49.15	48.25	54.00	-5.75	Average
3	5180.000	7.63	34.35	42.77	95.34	94.55	-----	-----	Average



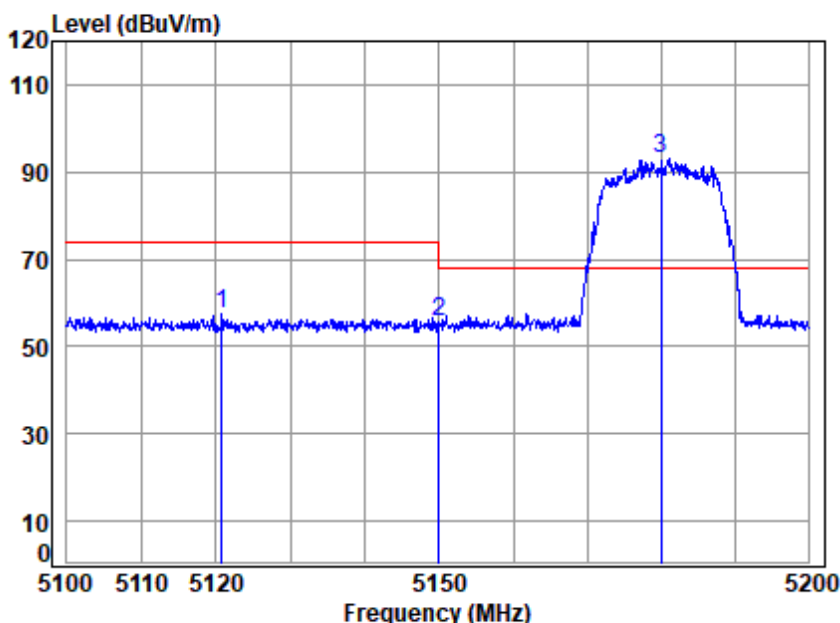
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5120.740	7.52	34.30	42.81	58.63	57.64	74.00	-16.36	Peak
2	5149.980	7.57	34.32	42.79	56.39	55.49	74.00	-18.51	Peak
3 *	5180.000	7.63	34.35	42.77	93.72	92.93	68.20	24.73	Peak



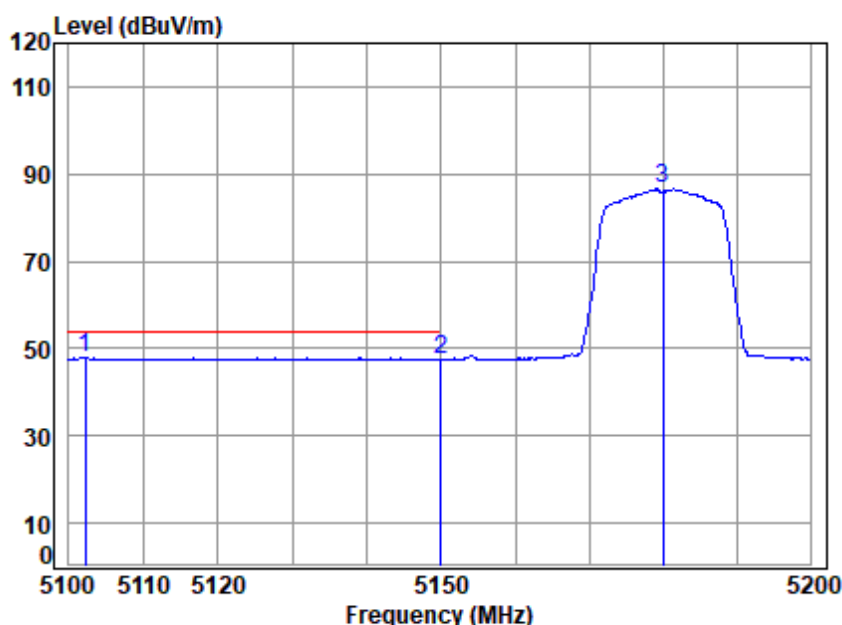
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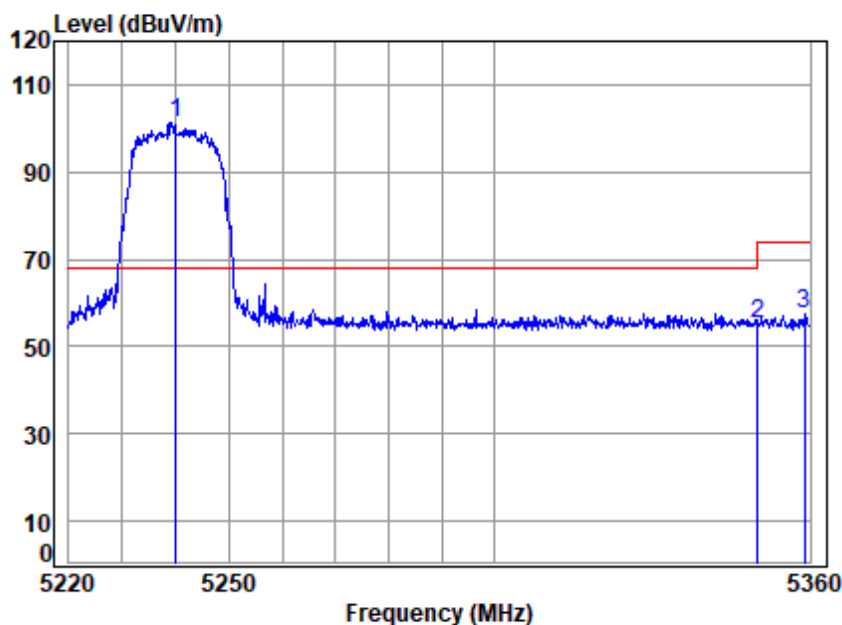
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Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5102.278	7.49	34.28	42.83	49.10	48.04	54.00	-5.96	Average
2	5149.980	7.57	34.32	42.79	48.54	47.64	54.00	-6.36	Average
3	5180.000	7.63	34.35	42.77	87.34	86.55	-----	-----	Average

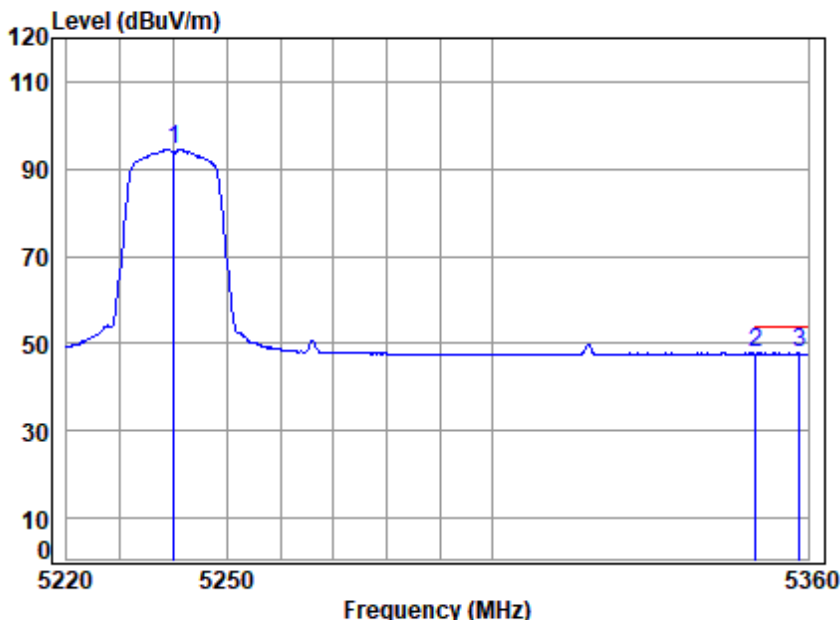
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5240 Band edge
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.73	102.01	101.41	68.20	33.21	peak
2 5350.020	7.92	34.48	42.66	55.48	55.22	74.00	-18.78	peak
3 5358.865	7.94	34.49	42.65	57.55	57.33	74.00	-16.67	peak

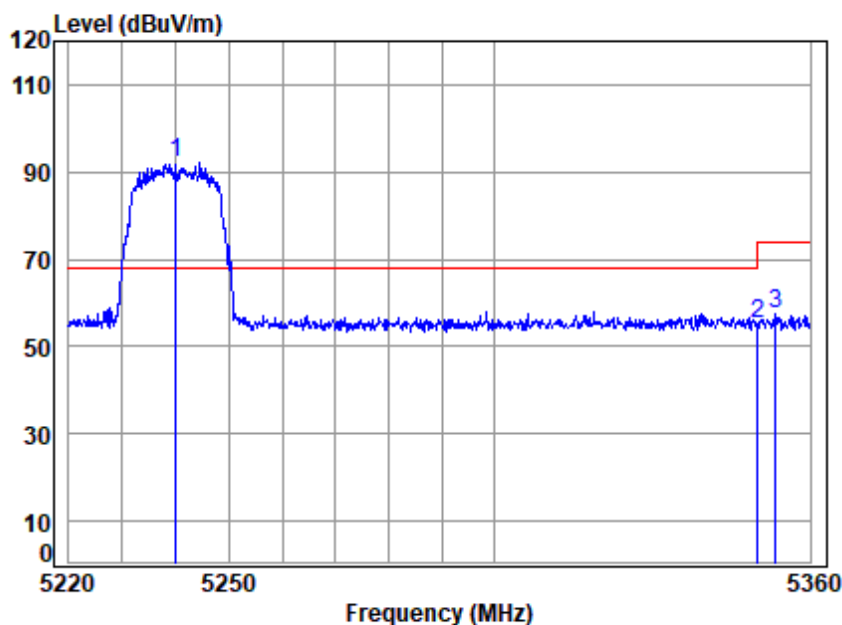
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5240 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.73	34.40	42.73	95.15	94.55	-----	-----	Average
2	5350.020	7.92	34.48	42.66	47.94	47.68	54.00	-6.32	Average
3	5358.440	7.94	34.49	42.65	47.94	47.72	54.00	-6.28	Average

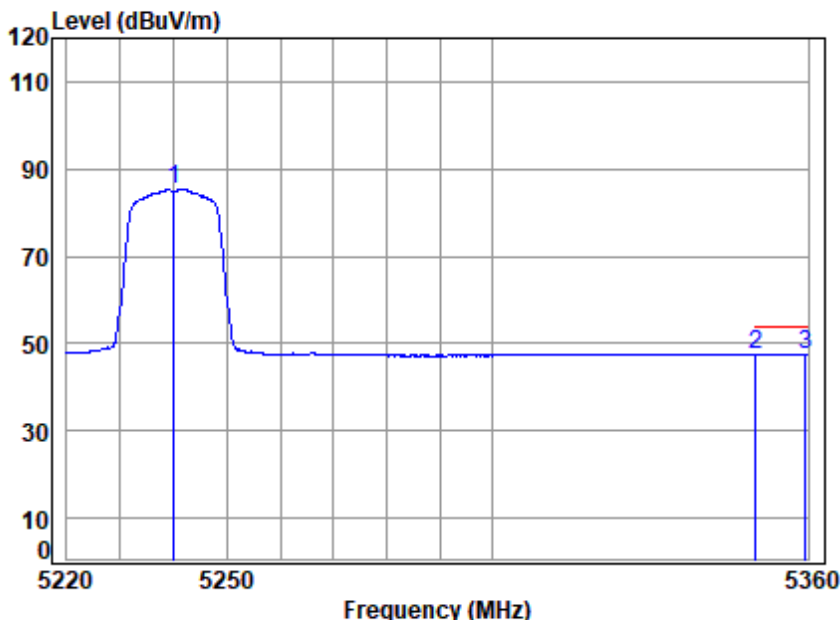
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5240 Band edge
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.73	92.73	92.13	68.20	23.93	Peak
2 5350.020	7.92	34.48	42.66	55.33	55.07	74.00	-18.93	Peak
3 5353.337	7.93	34.49	42.65	57.54	57.31	74.00	-16.69	Peak

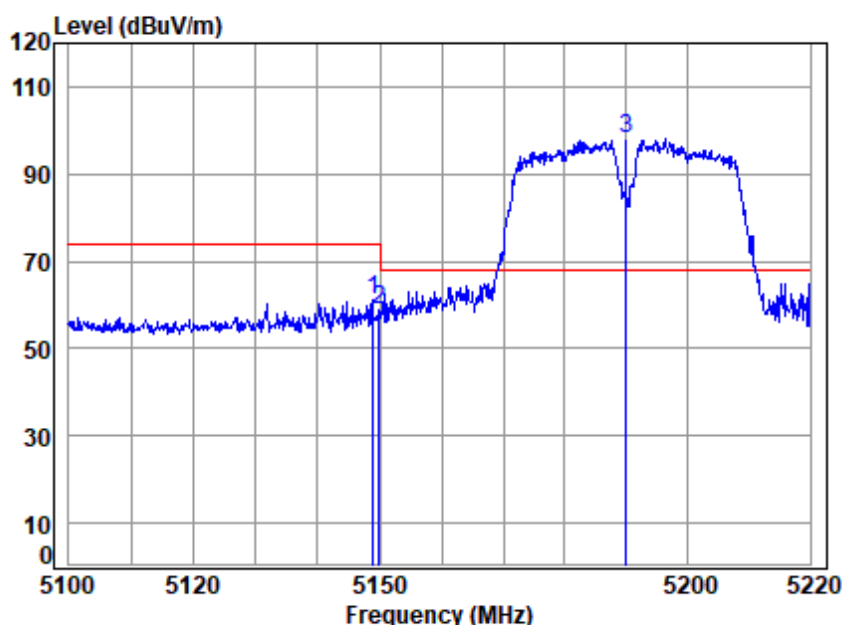
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5240 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.73	34.40	42.73	86.08	85.48	-----	-----	Average
2	5350.020	7.92	34.48	42.66	47.79	47.53	54.00	-6.47	Average
3	5359.433	7.94	34.49	42.65	47.89	47.67	54.00	-6.33	Average

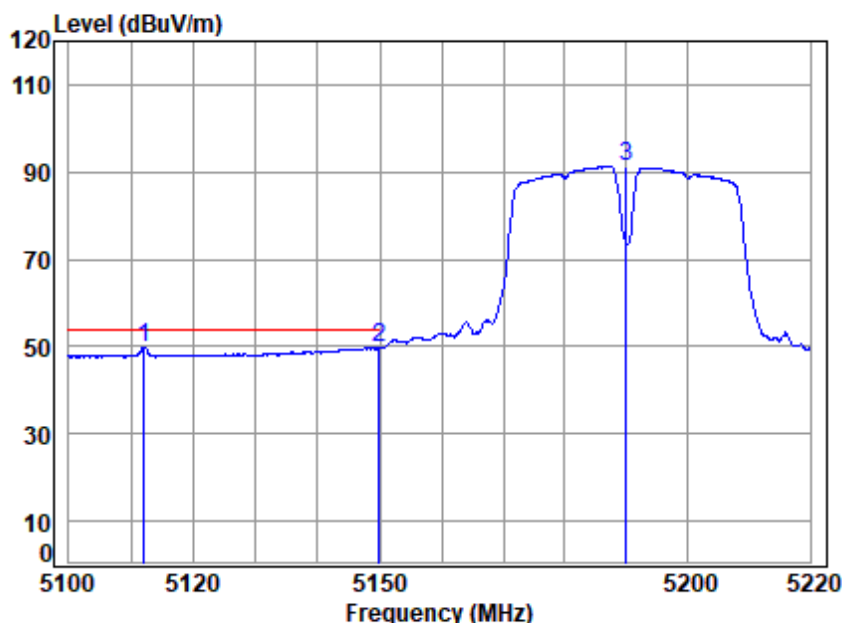
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.863	7.57	34.32	42.79	62.08	61.18	74.00	-12.82	peak
2	5149.980	7.57	34.32	42.79	59.62	58.72	74.00	-15.28	peak
3 *	5190.000	7.64	34.36	42.77	98.85	98.08	68.20	29.88	peak

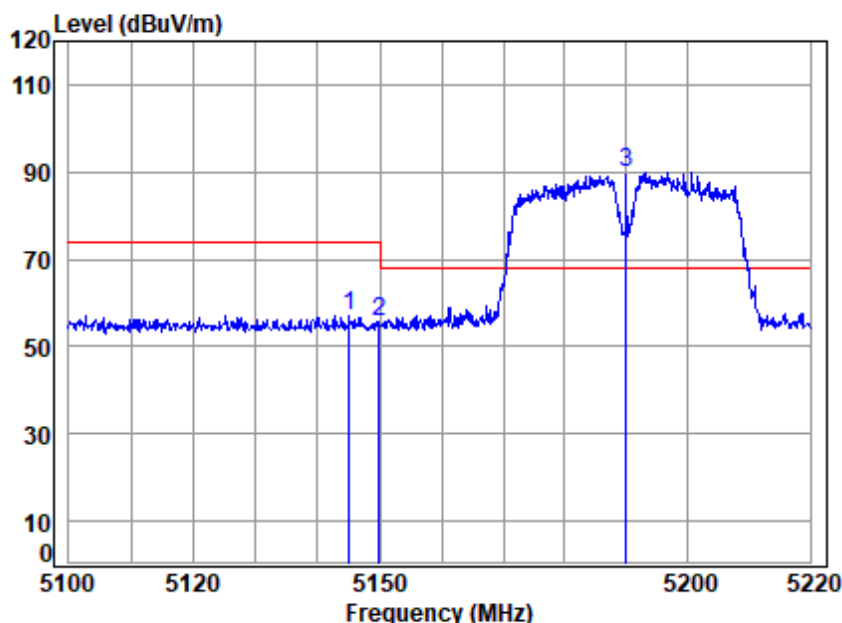
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5112.113	7.50	34.29	42.82	50.90	49.87	54.00	-4.13	Average
2	5149.980	7.57	34.32	42.79	50.59	49.69	54.00	-4.31	Average
3	5190.000	7.64	34.36	42.77	92.10	91.33	-----	-----	Average

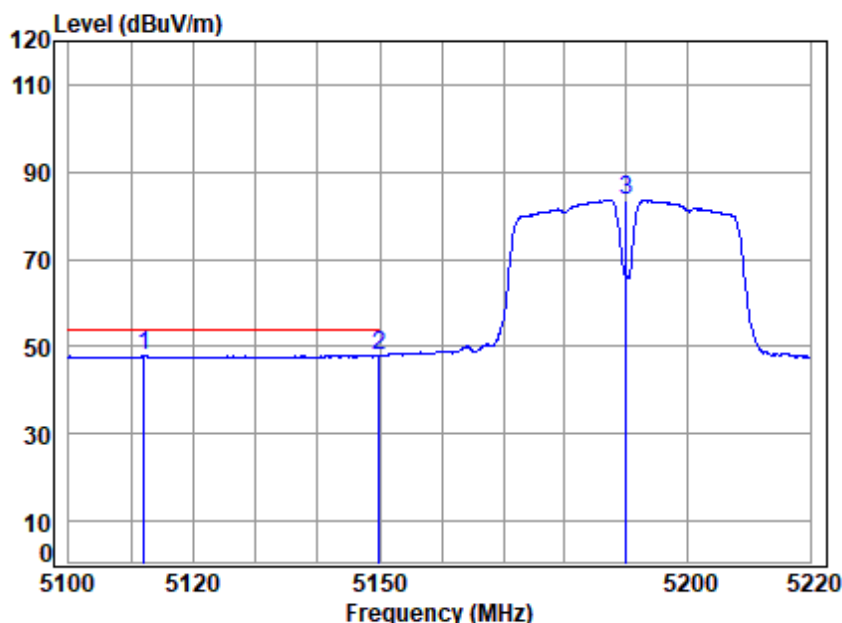
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.152	7.56	34.32	42.80	58.17	57.25	74.00	-16.75	Peak
2	5149.980	7.57	34.32	42.79	56.38	55.48	74.00	-18.52	Peak
3 *	5190.000	7.64	34.36	42.77	90.61	89.84	68.20	21.64	Peak

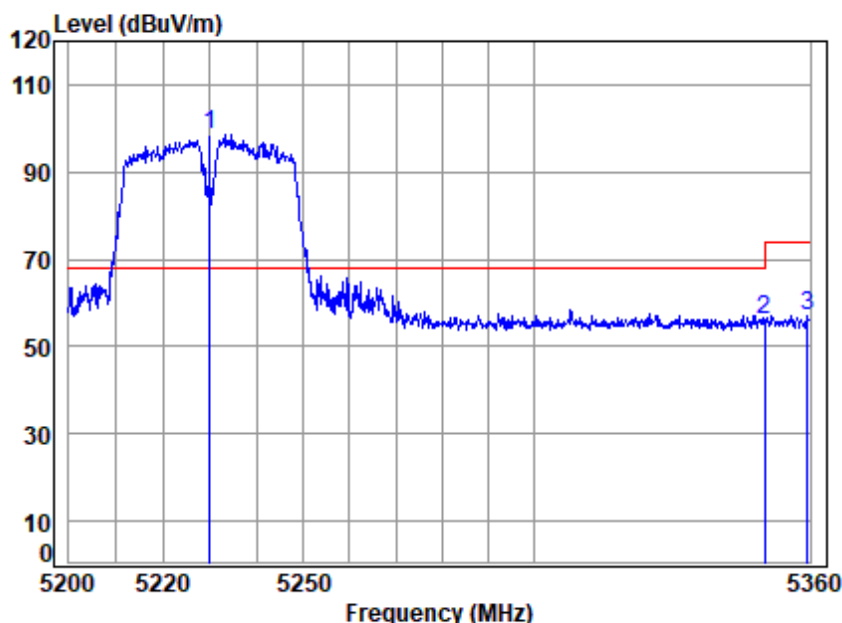
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5112.113	7.50	34.29	42.82	48.91	47.88	54.00	-6.12	Average
2	5149.980	7.57	34.32	42.79	48.75	47.85	54.00	-6.15	Average
3	5190.000	7.64	34.36	42.77	84.29	83.52	-----	-----	Average

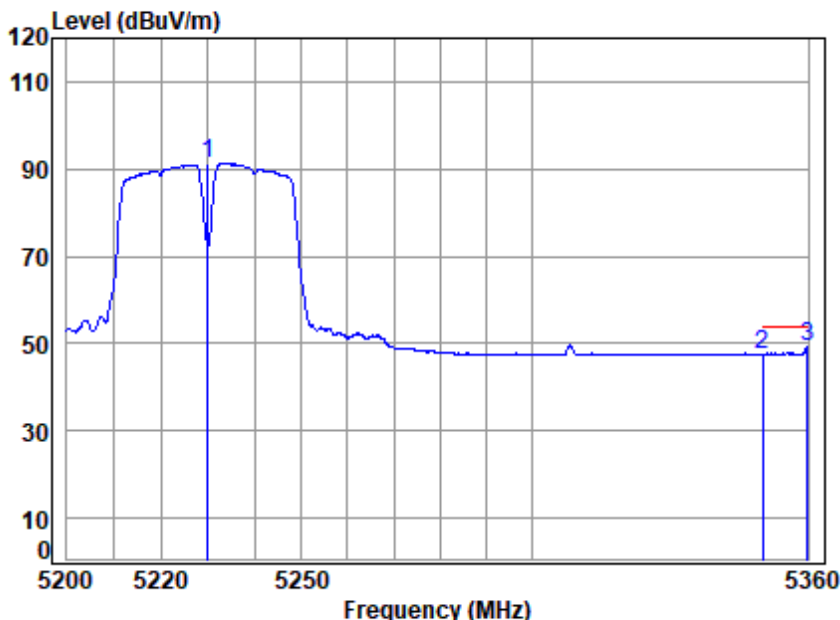
Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5230 Band edge
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000	7.72	34.39	42.74	99.03	98.40	68.20	30.20	peak
2 5350.020	7.92	34.48	42.66	56.39	56.13	74.00	-17.87	peak
3 5359.350	7.94	34.49	42.65	57.44	57.22	74.00	-16.78	peak

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5230 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.72	34.39	42.74	91.92	91.29	-----	-----	Average
2	5350.020	7.92	34.48	42.66	47.93	47.67	54.00	-6.33	Average
3	5359.837	7.94	34.49	42.65	49.40	49.18	54.00	-4.82	Average

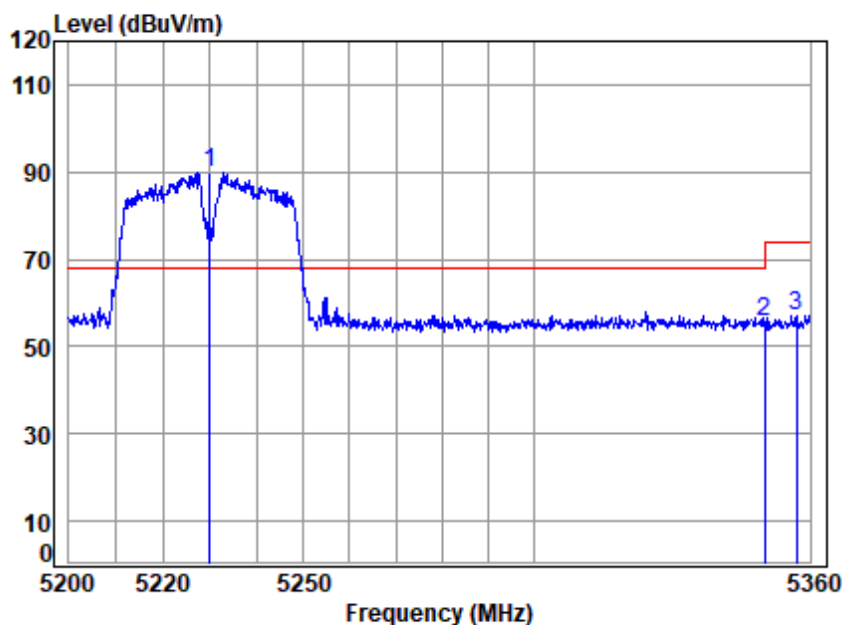


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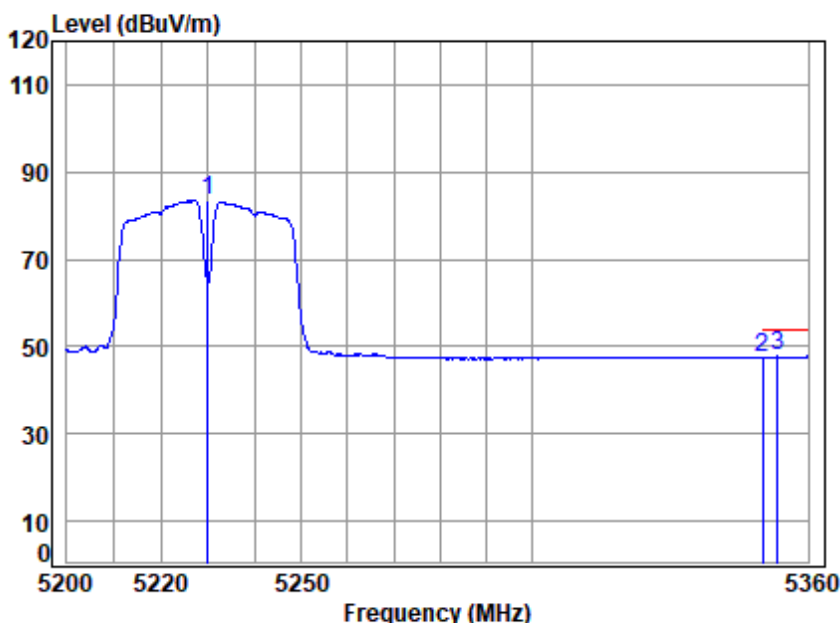
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5230 Band edge
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000	7.72	34.39	42.74	90.37	89.74	68.20	21.54	Peak
2 5350.020	7.92	34.48	42.66	55.93	55.67	74.00	-18.33	Peak
3 5357.077	7.94	34.49	42.65	57.47	57.25	74.00	-16.75	Peak

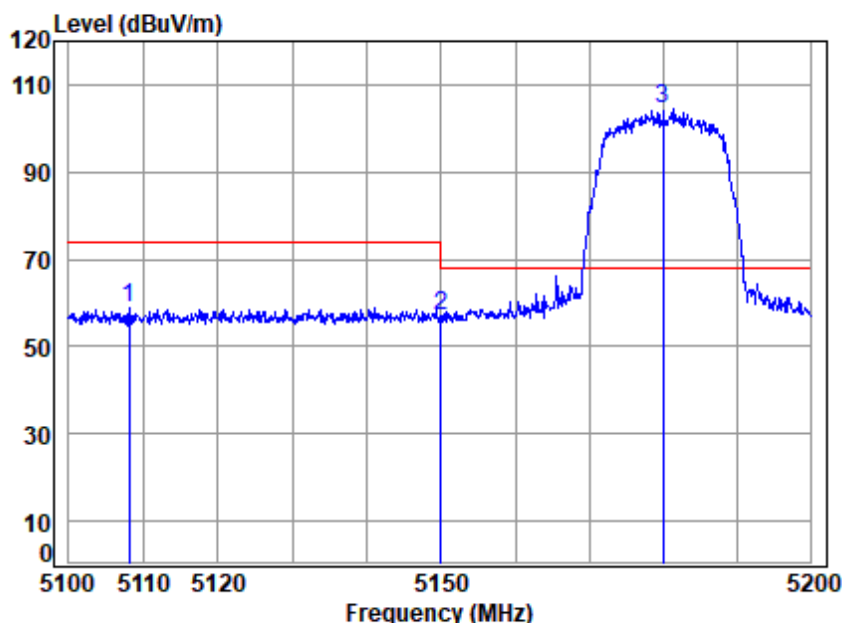
Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5230 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.72	34.39	42.74	84.01	83.38	-----	-----	Average
2	5350.020	7.92	34.48	42.66	47.79	47.53	54.00	-6.47	Average
3	5353.344	7.93	34.49	42.65	47.96	47.73	54.00	-6.27	Average

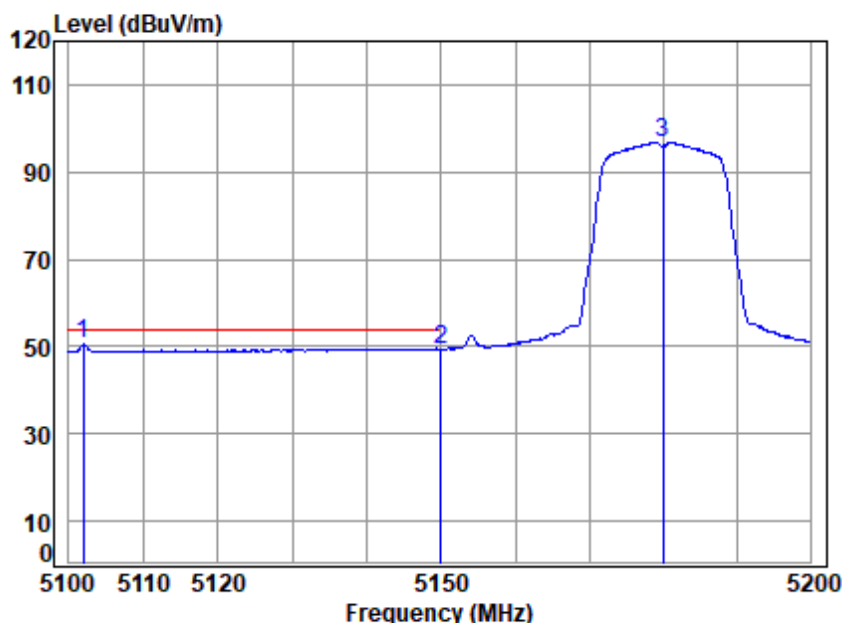
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5108.028	7.50	34.29	42.82	59.90	58.87	74.00	-15.13	peak
2	5149.980	7.57	34.32	42.79	58.09	57.19	74.00	-16.81	peak
3 *	5180.000	7.63	34.35	42.77	105.11	104.32	68.20	36.12	peak

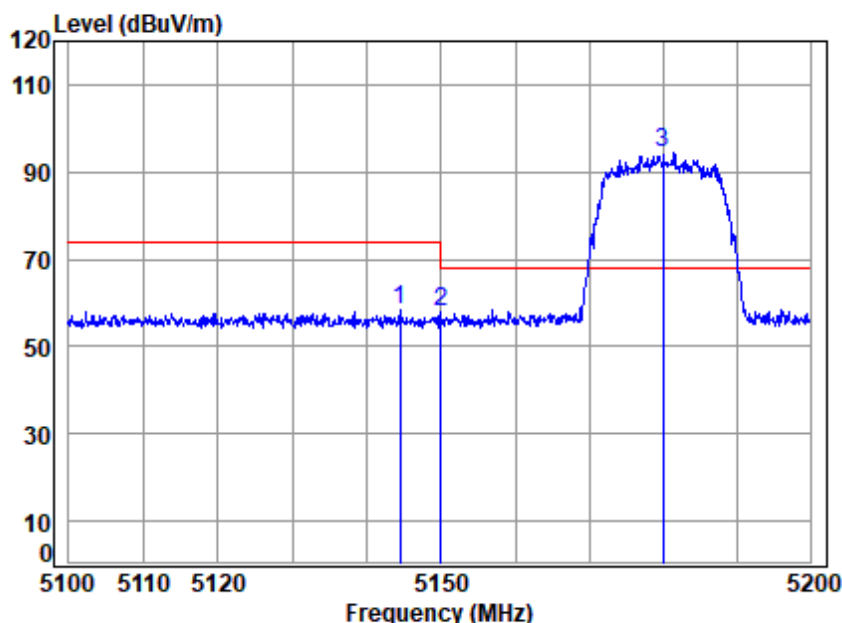
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5101.981	7.49	34.28	42.83	51.59	50.53	54.00	-3.47	Average
2	5149.980	7.57	34.32	42.79	50.38	49.48	54.00	-4.52	Average
3	5180.000	7.63	34.35	42.77	97.59	96.80	-----	-----	Average

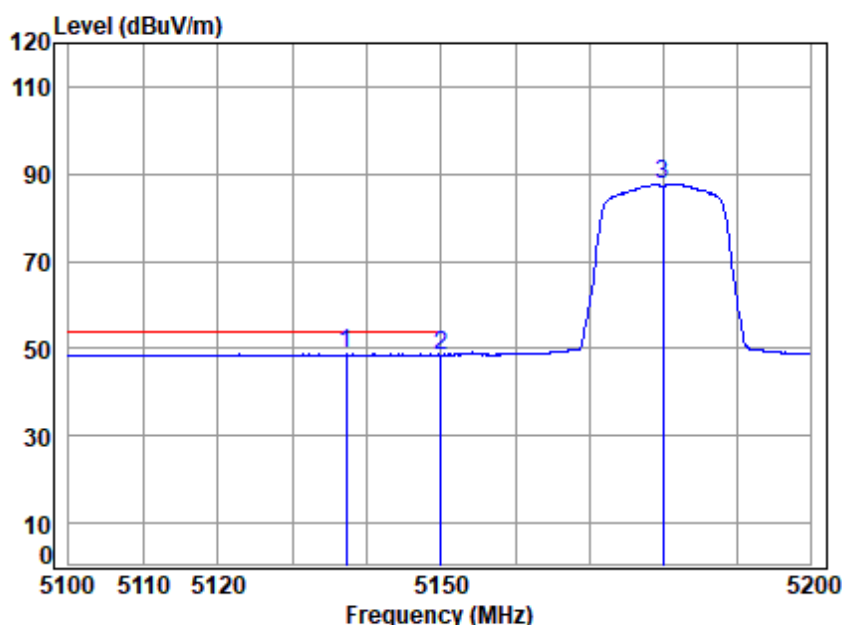
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.460	7.56	34.32	42.80	59.44	58.52	74.00	-15.48	Peak
2	5149.980	7.57	34.32	42.79	58.66	57.76	74.00	-16.24	Peak
3 *	5180.000	7.63	34.35	42.77	95.30	94.51	68.20	26.31	Peak

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



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5137.173	7.55	34.31	42.80	49.59	48.65	54.00	-5.35	Average
2	5149.980	7.57	34.32	42.79	49.45	48.55	54.00	-5.45	Average
3	5180.000	7.63	34.35	42.77	88.56	87.77	-----	-----	Average

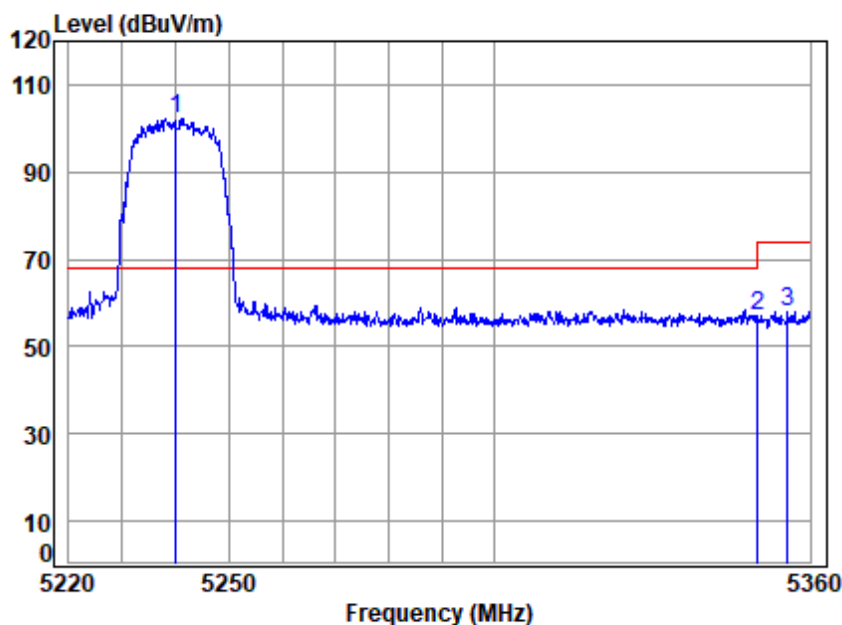


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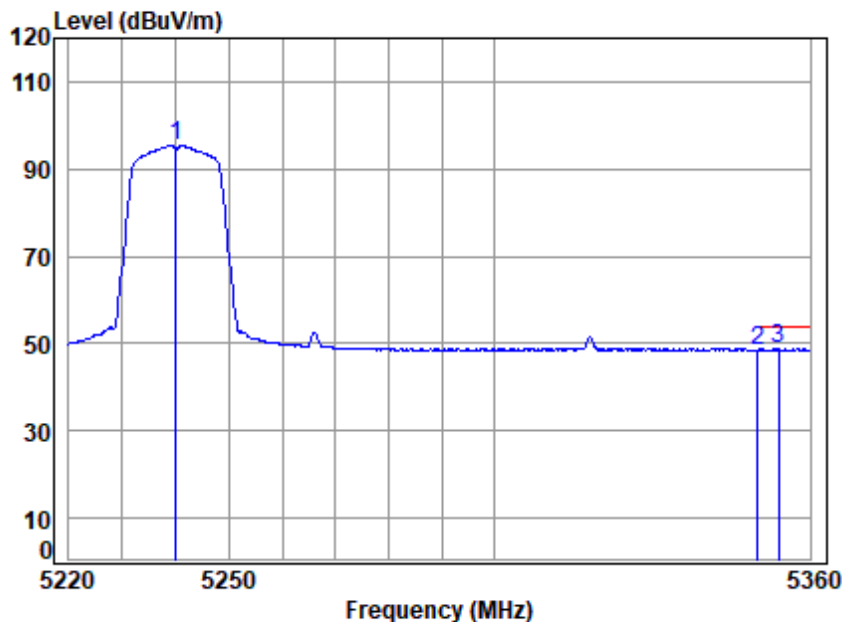
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5240 Band edge
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.73	103.02	102.42	68.20	34.22	peak
2 5350.020	7.92	34.48	42.66	57.13	56.87	74.00	-17.13	peak
3 5355.746	7.93	34.49	42.65	58.38	58.15	74.00	-15.85	peak

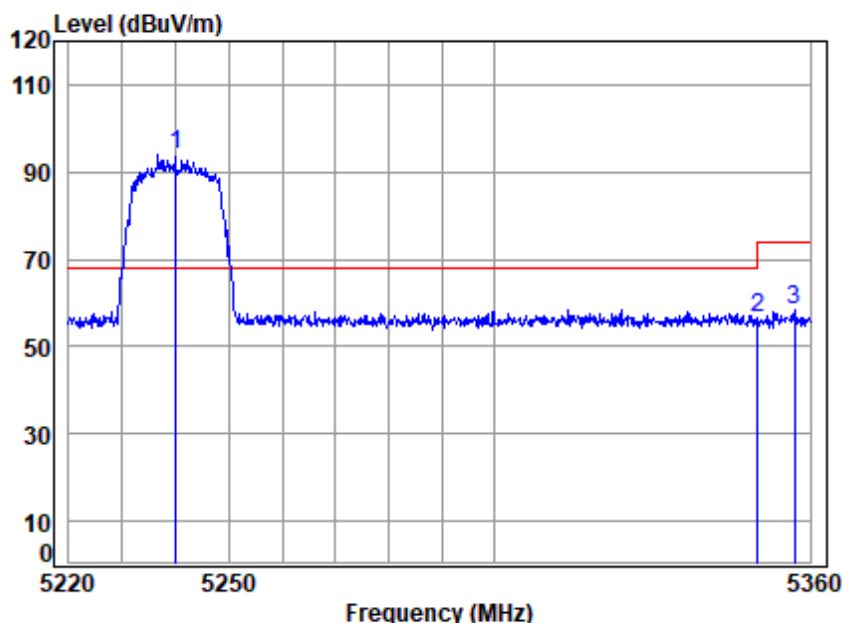
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5240 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.73	34.40	42.73	96.08	95.48	-----	-----	Average
2	5350.020	7.92	34.48	42.66	48.83	48.57	54.00	-5.43	Average
3	5353.903	7.93	34.49	42.65	48.96	48.73	54.00	-5.27	Average

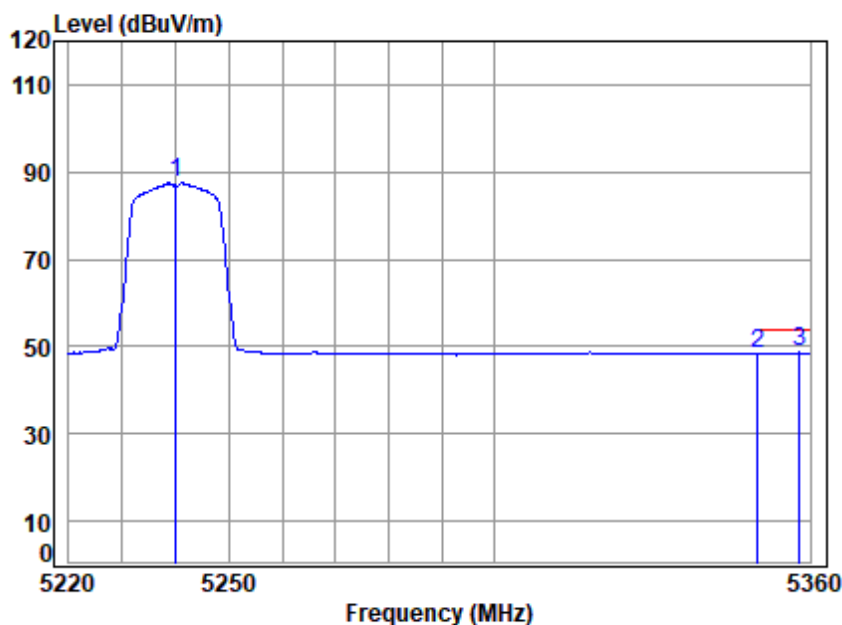
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5240 Band edge
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000	7.73	34.40	42.73	94.65	94.05	68.20	25.85	Peak
2 5350.020	7.92	34.48	42.66	56.91	56.65	74.00	-17.35	Peak
3 5357.022	7.94	34.49	42.65	58.75	58.53	74.00	-15.47	Peak

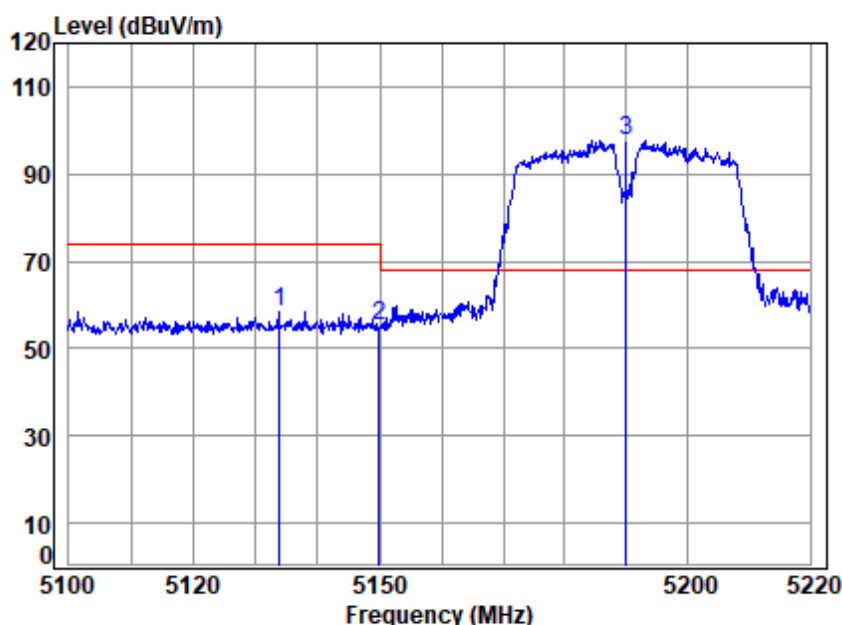
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5240 Band edge
: 5G WIFI 11AC20

	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	5240.000	7.73	34.40	42.73	88.14	87.54	-----	-----	Average
2	5350.020	7.92	34.48	42.66	48.76	48.50	54.00	-5.50	Average
3	5358.014	7.94	34.49	42.65	48.88	48.66	54.00	-5.34	Average

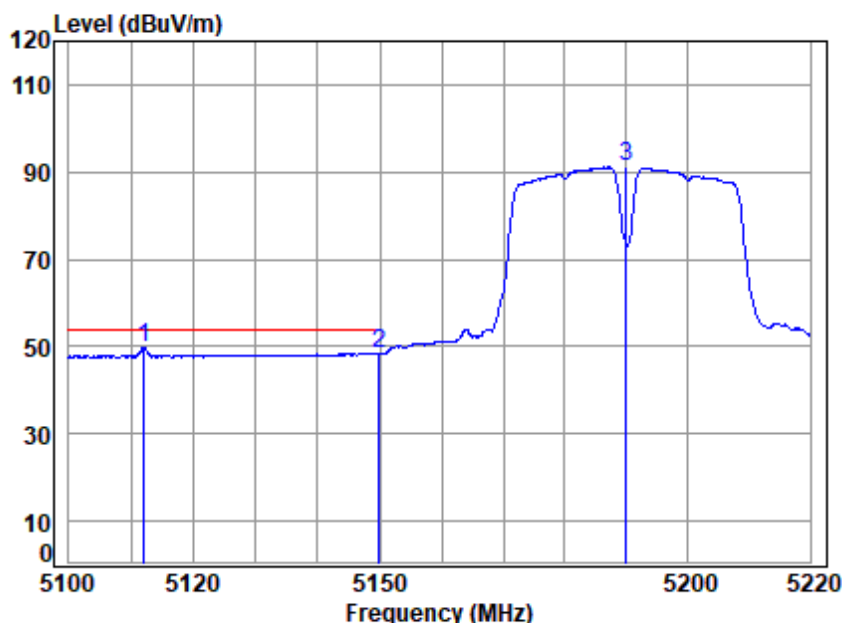
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5133.797	7.54	34.31	42.80	59.20	58.25	74.00	-15.75	peak
2	5149.980	7.57	34.32	42.79	55.99	55.09	74.00	-18.91	peak
3 *	5190.000	7.64	34.36	42.77	98.44	97.67	68.20	29.47	peak

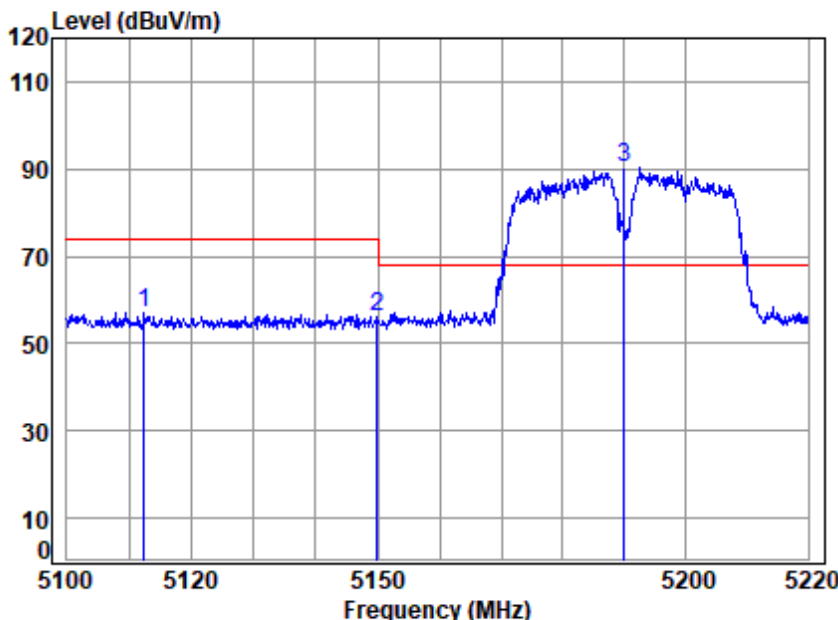
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5111.994	7.50	34.29	42.82	50.86	49.83	54.00	-4.17	Average
2	5149.980	7.57	34.32	42.79	49.36	48.46	54.00	-5.54	Average
3	5190.000	7.64	34.36	42.77	91.94	91.17	-----	-----	Average

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



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5112.351	7.51	34.29	42.82	58.17	57.15	74.00	-16.85	Peak
2	5149.980	7.57	34.32	42.79	57.07	56.17	74.00	-17.83	Peak
3 *	5190.000	7.64	34.36	42.77	91.16	90.39	68.20	22.19	Peak



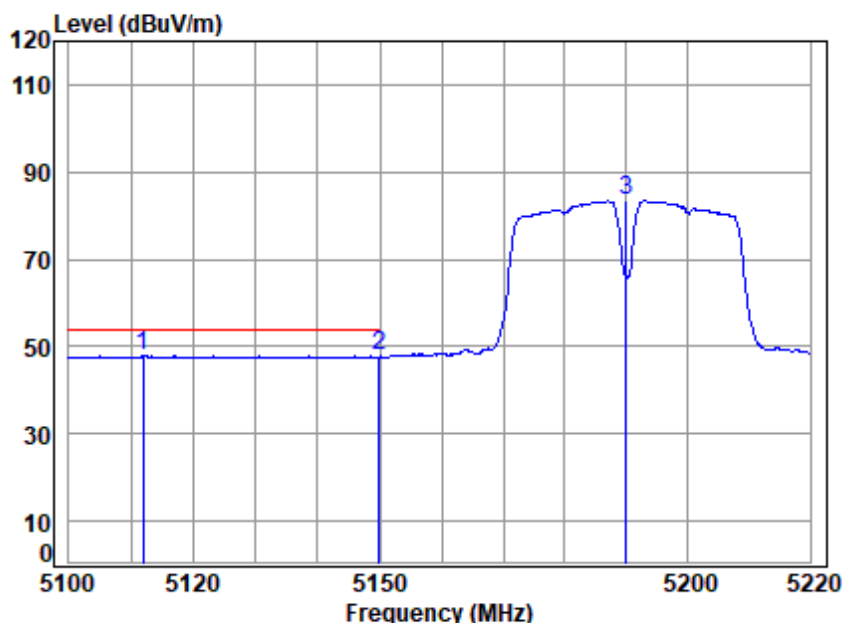
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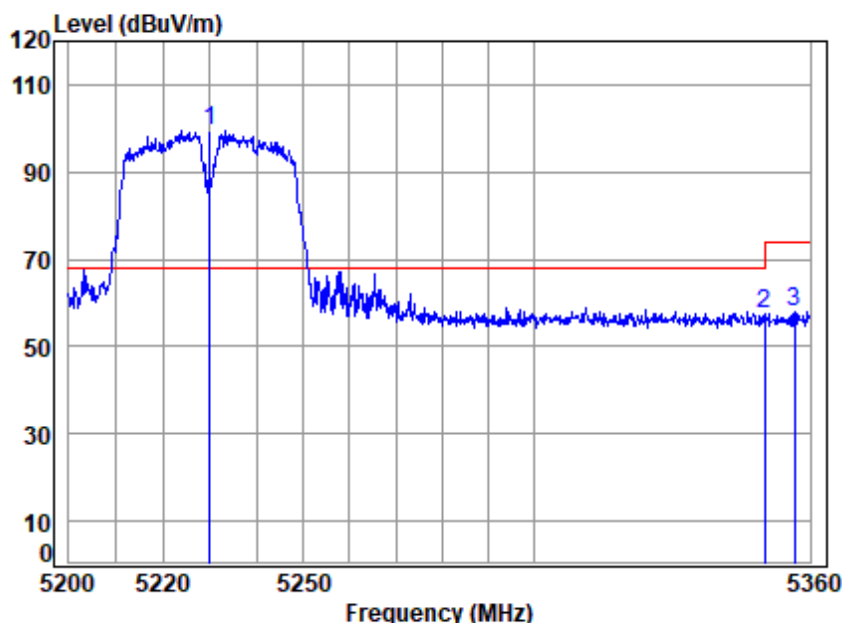
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5111.875	7.50	34.29	42.82	49.01	47.98	54.00	-6.02	Average
2	5149.980	7.57	34.32	42.79	48.59	47.69	54.00	-6.31	Average
3	5190.000	7.64	34.36	42.77	84.11	83.34	-----	-----	Average

Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5230 Band edge
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000	7.72	34.39	42.74	100.31	99.68	68.20	31.48	peak
2 5350.020	7.92	34.48	42.66	57.74	57.48	74.00	-16.52	peak
3 5356.590	7.94	34.49	42.65	58.13	57.91	74.00	-16.09	peak



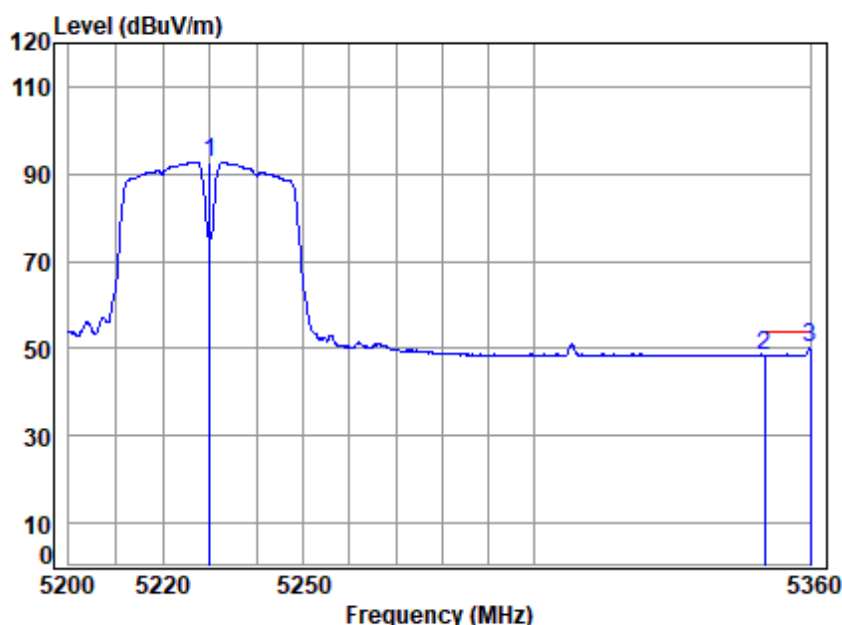
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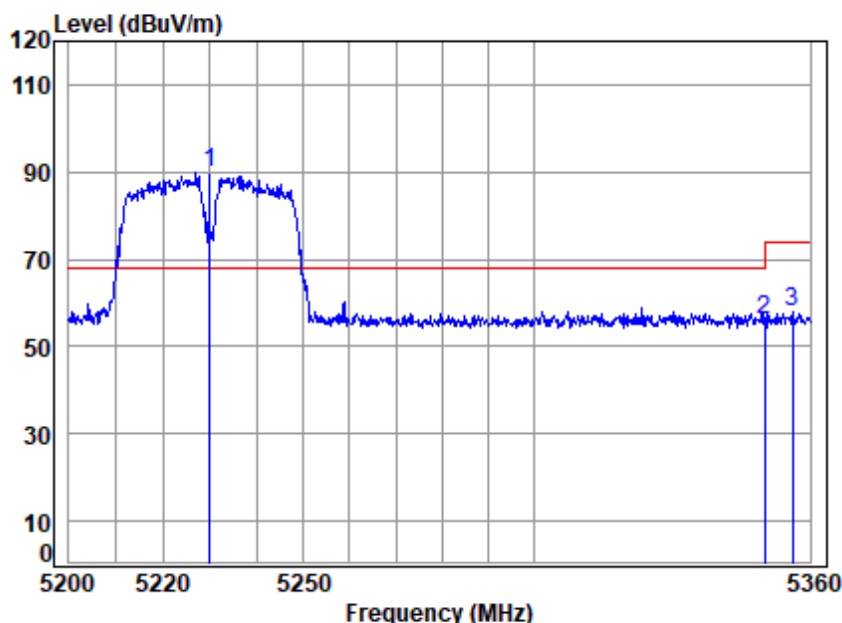
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.72	34.39	42.74	93.43	92.80	-----	-----	Average
2	5350.020	7.92	34.48	42.66	48.66	48.40	54.00	-5.60	Average
3	5360.000	7.94	34.49	42.65	50.29	50.07	54.00	-3.93	Average

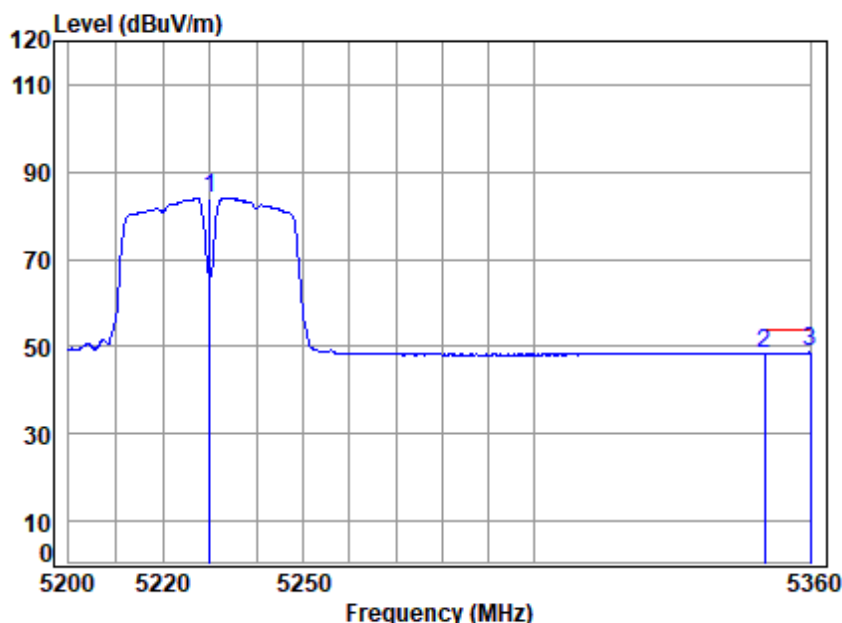
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5230 Band edge
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000	7.72	34.39	42.74	90.64	90.01	68.20	21.81	Peak
2 5350.020	7.92	34.48	42.66	56.25	55.99	74.00	-18.01	Peak
3 5356.103	7.94	34.49	42.65	58.21	57.99	74.00	-16.01	Peak

Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5230 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.72	34.39	42.74	84.72	84.09	-----	-----	Average
2	5350.020	7.92	34.48	42.66	48.61	48.35	54.00	-5.65	Average
3	5360.000	7.94	34.49	42.65	48.87	48.65	54.00	-5.35	Average



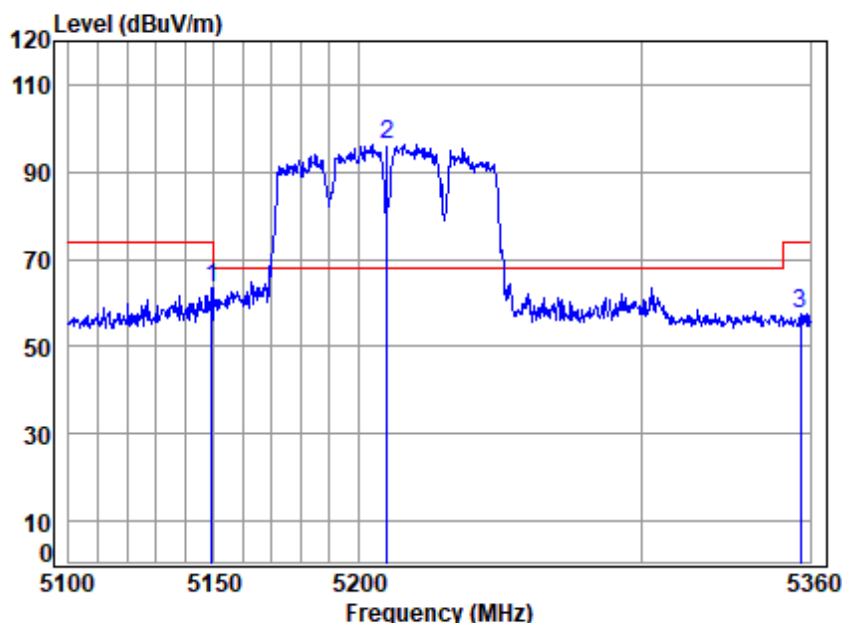
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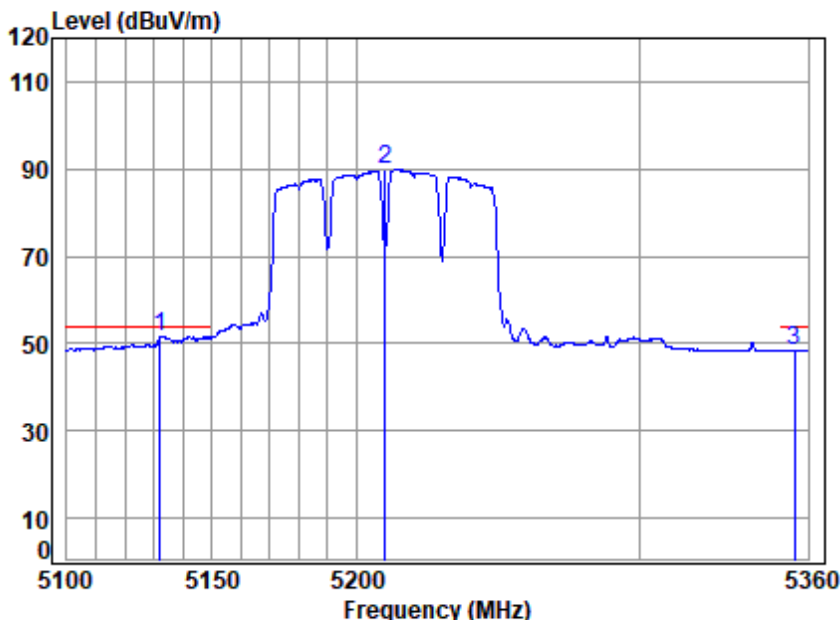
Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.178	7.57	34.32	42.79	64.38	63.48	74.00	-10.52	peak
2 *	5210.000	7.68	34.37	42.75	97.02	96.32	68.20	28.12	peak
3	5356.537	7.94	34.49	42.65	57.88	57.66	74.00	-16.34	peak

Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5132.053	7.54	34.31	42.81	52.58	51.62	54.00	-2.38	Average
2	5210.000	7.68	34.37	42.75	90.61	89.91	-----	-----	Average
3	5355.205	7.93	34.49	42.65	48.73	48.50	54.00	-5.50	Average



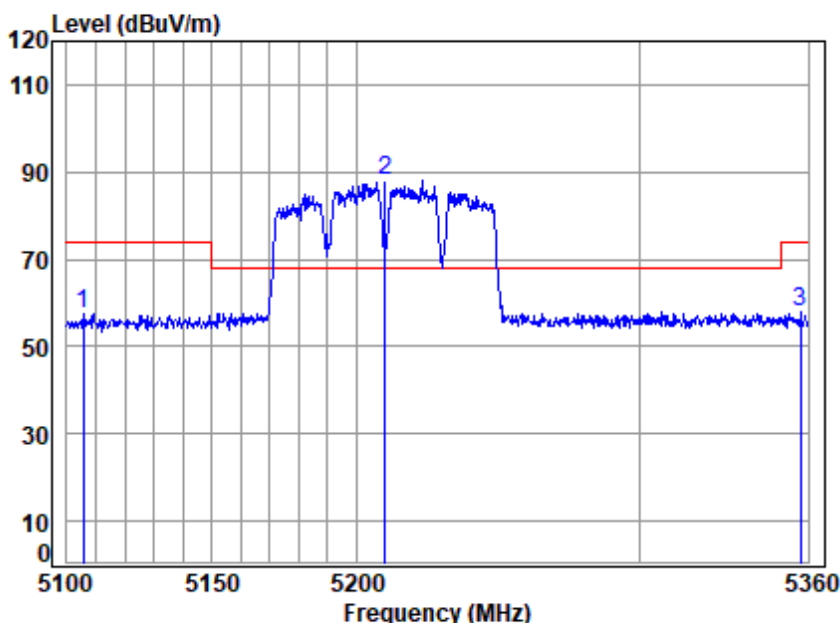
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5105.582	7.49	34.29	42.82	58.49	57.45	74.00	-16.55	Peak
2 *	5210.000	7.68	34.37	42.75	88.84	88.14	68.20	19.94	Peak
3	5357.335	7.94	34.49	42.65	57.95	57.73	74.00	-16.27	Peak



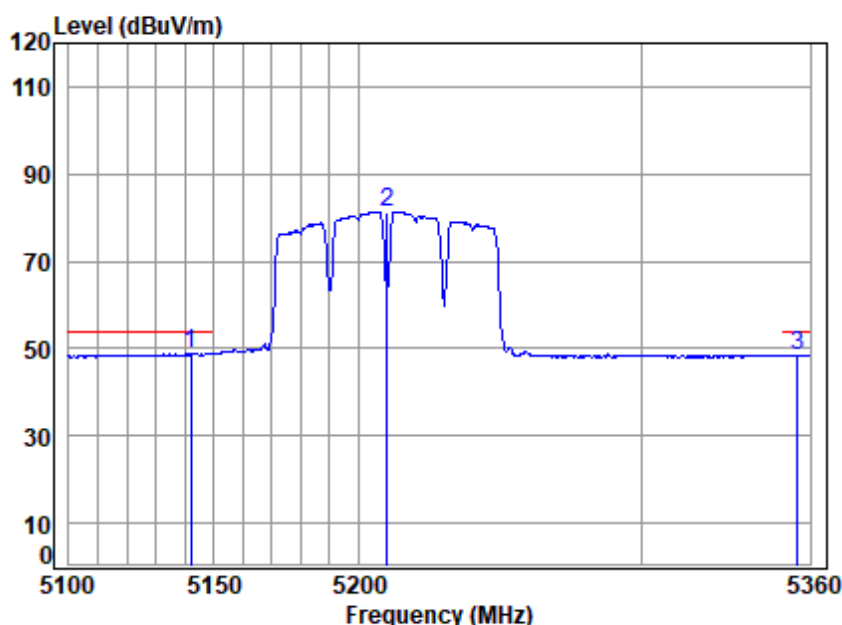
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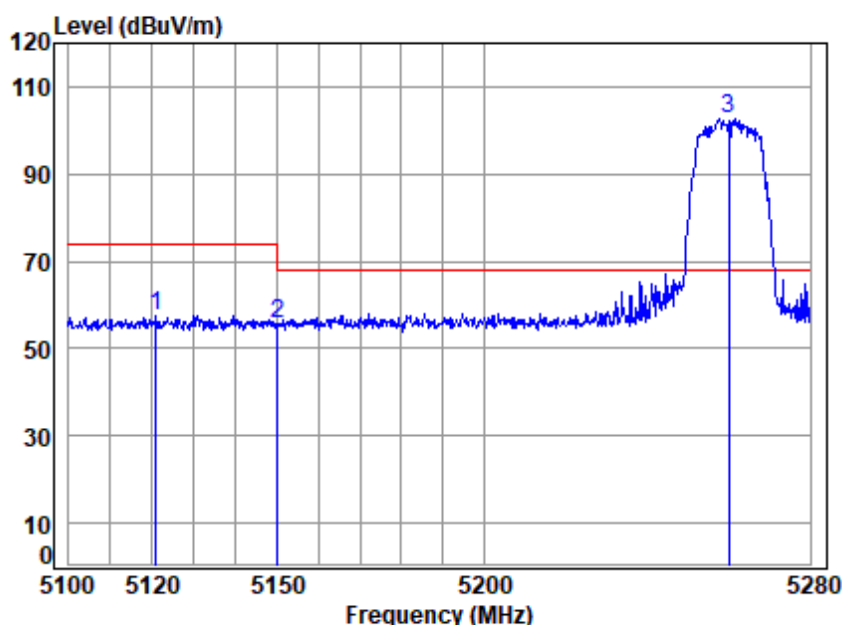
Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5142.014	7.56	34.32	42.80	49.78	48.86	54.00	-5.14	Average
2	5210.000	7.68	34.37	42.75	82.11	81.41	-----	-----	Average
3	5355.471	7.93	34.49	42.65	48.58	48.35	54.00	-5.65	Average

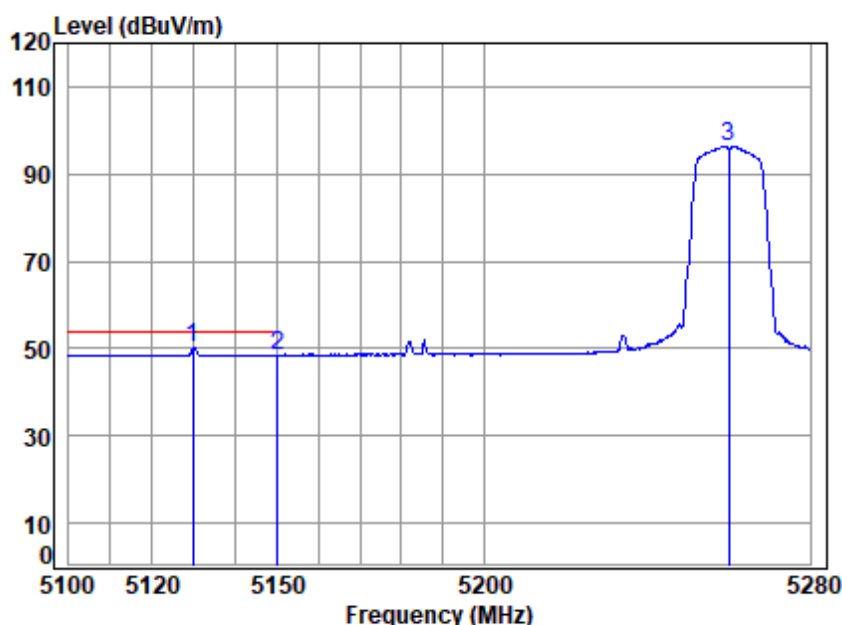
Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5260 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5120.917	7.52	34.30	42.81	58.65	57.66	74.00	-16.34	peak
2	5149.980	7.57	34.32	42.79	56.68	55.78	74.00	-18.22	peak
3 *	5260.000	7.77	34.41	42.72	103.15	102.61	68.20	34.41	peak

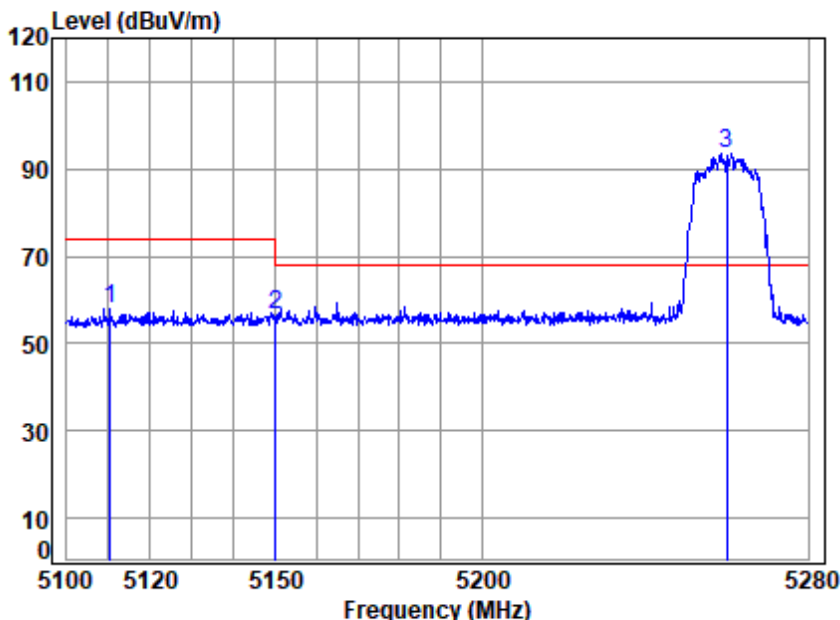
Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 10640CR
 Mode : 5260 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5129.805	7.54	34.31	42.81	51.34	50.38	54.00	-3.62	Average
2	5149.980	7.57	34.32	42.79	49.36	48.46	54.00	-5.54	Average
3	5260.000	7.77	34.41	42.72	96.93	96.39	-----	-----	Average

Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5260 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5110.448	7.50	34.29	42.82	58.84	57.81	74.00	-16.19	Peak
2	5149.980	7.57	34.32	42.79	57.65	56.75	74.00	-17.25	Peak
3 *	5260.000	7.77	34.41	42.72	94.28	93.74	68.20	25.54	Peak



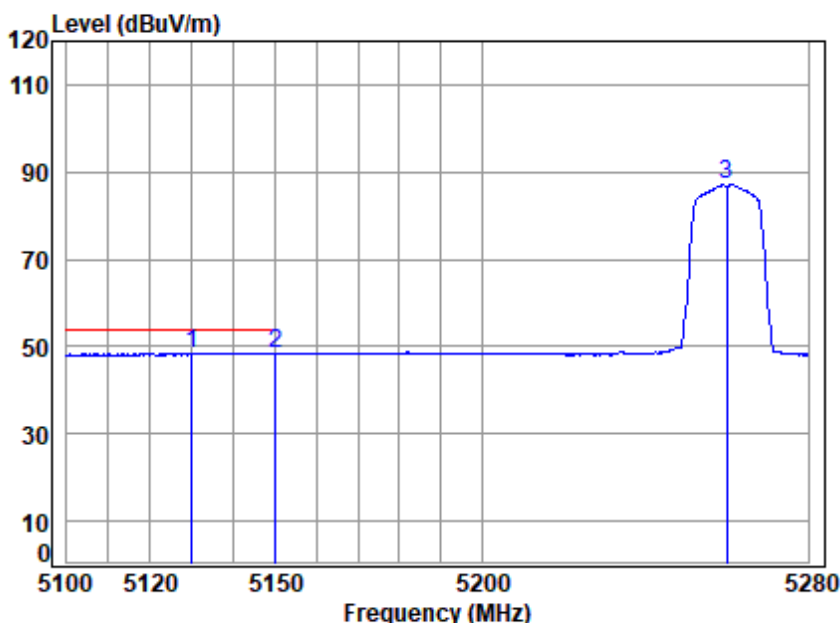
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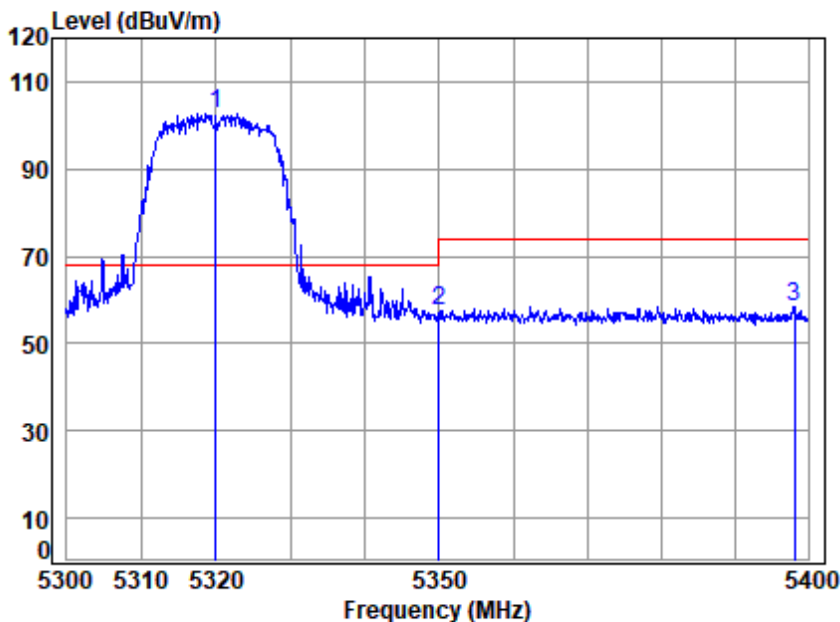
Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 10640CR
 Mode : 5260 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5129.983	7.54	34.31	42.81	49.28	48.32	54.00	-5.68	Average
2	5149.980	7.57	34.32	42.79	49.16	48.26	54.00	-5.74	Average
3	5260.000	7.77	34.41	42.72	87.62	87.08	-----	-----	Average

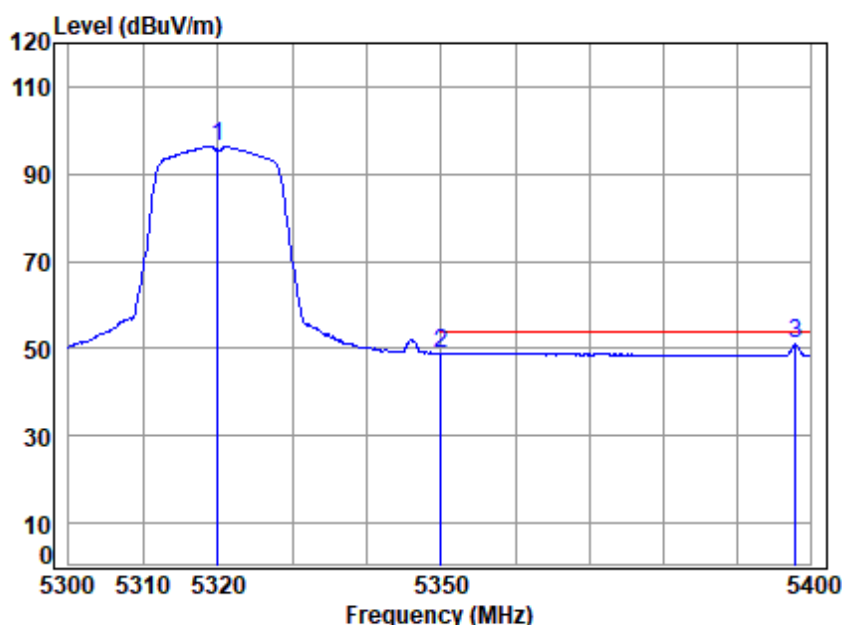
Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5320 Band edge
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.68	103.03	102.68	68.20	34.48	peak
2 5350.020	7.92	34.48	42.66	57.66	57.40	74.00	-16.60	peak
3 5398.184	8.01	34.52	42.62	58.62	58.53	74.00	-15.47	peak

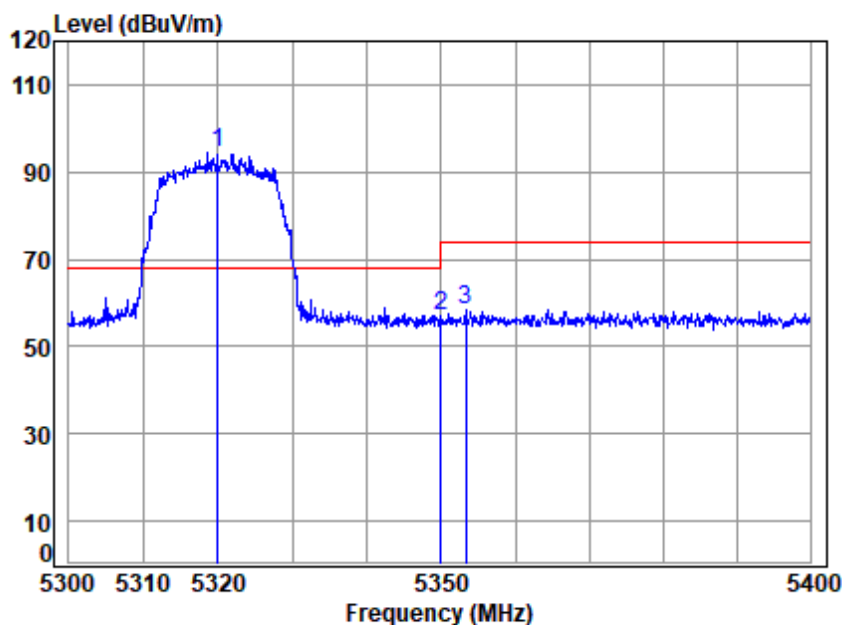
Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5320 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.87	34.46	42.68	96.67	96.32	-----	-----	Average
2	5350.020	7.92	34.48	42.66	49.27	49.01	54.00	-4.99	Average
3	5397.981	8.01	34.52	42.62	51.07	50.98	54.00	-3.02	Average

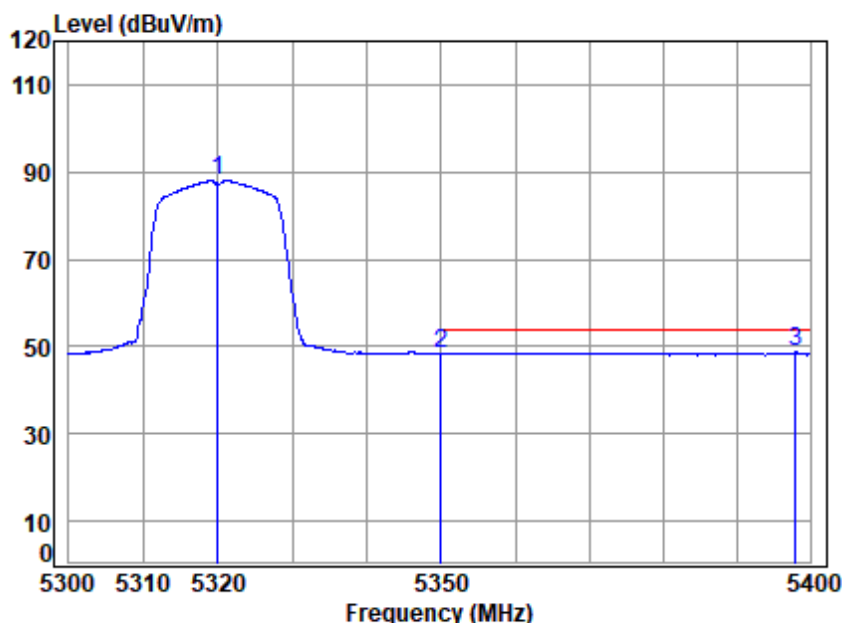
Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5320 Band edge
: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.68	94.71	94.36	68.20	26.16	Peak
2 5350.020	7.92	34.48	42.66	57.25	56.99	74.00	-17.01	Peak
3 5353.268	7.93	34.49	42.65	58.62	58.39	74.00	-15.61	Peak

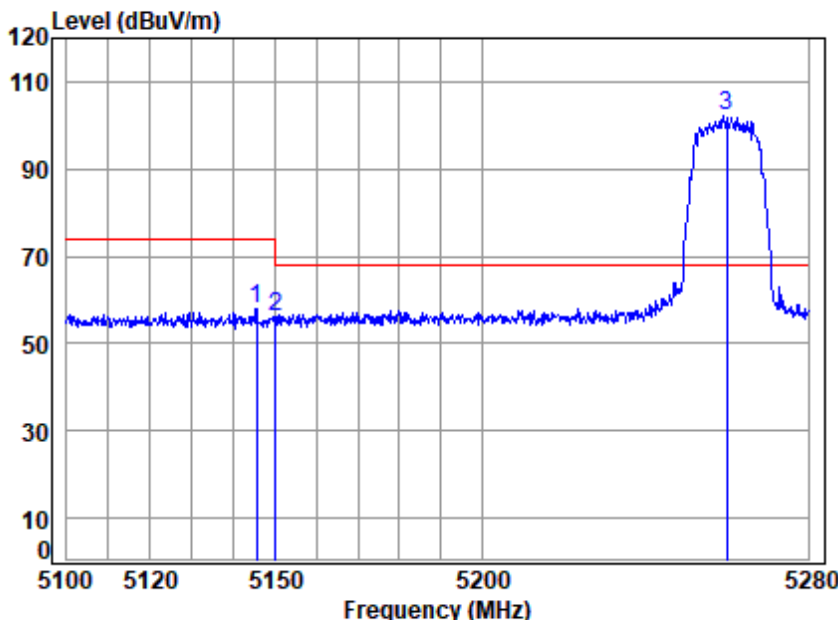
Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5320 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.87	34.46	42.68	88.43	88.08	-----	-----	Average
2	5350.020	7.92	34.48	42.66	48.56	48.30	54.00	-5.70	Average
3	5398.083	8.01	34.52	42.62	48.75	48.66	54.00	-5.34	Average

Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5260 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.487	7.56	34.32	42.80	59.06	58.14	74.00	-15.86	peak
2	5149.980	7.57	34.32	42.79	57.21	56.31	74.00	-17.69	peak
3 *	5260.000	7.77	34.41	42.72	102.75	102.21	68.20	34.01	peak



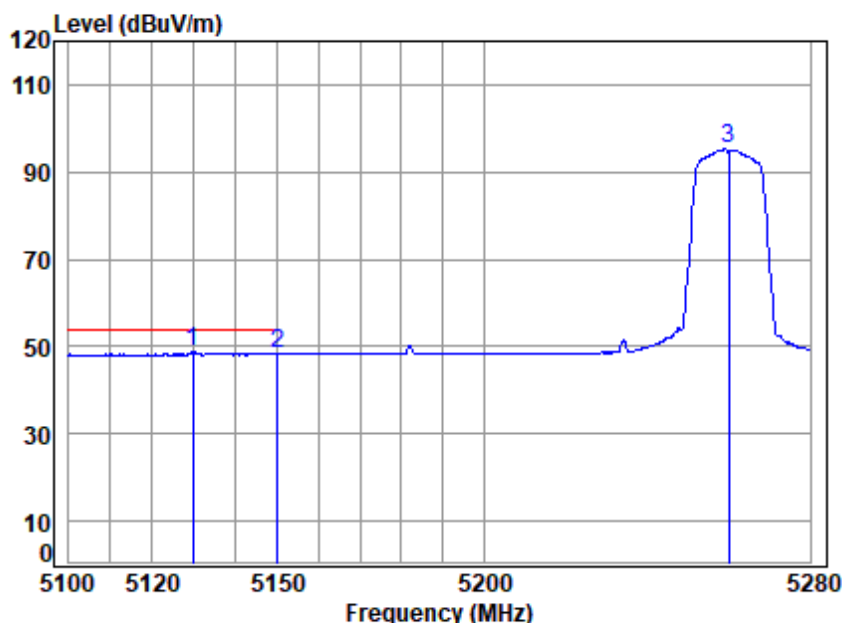
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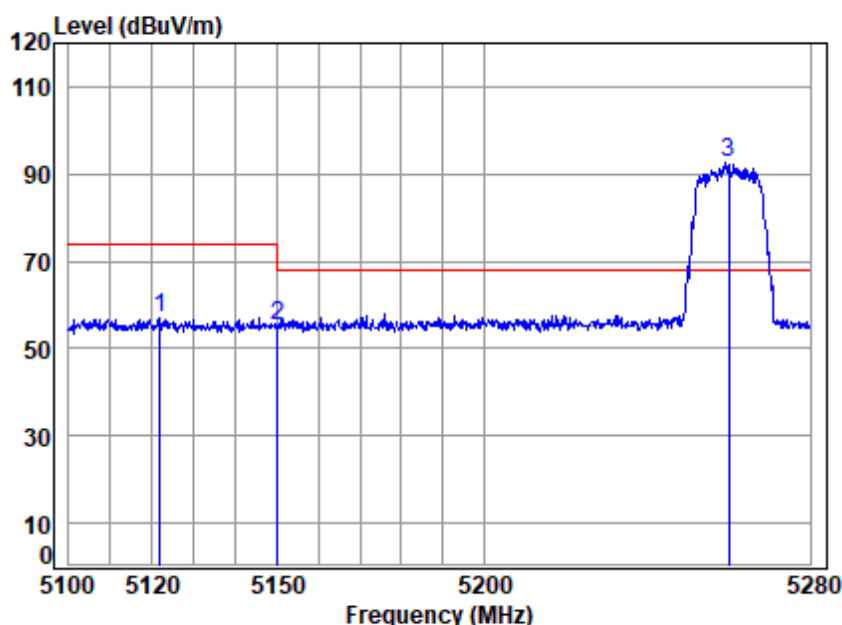
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5260 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5129.805	7.54	34.31	42.81	50.00	49.04	54.00	-4.96	Average
2	5149.980	7.57	34.32	42.79	49.15	48.25	54.00	-5.75	Average
3	5260.000	7.77	34.41	42.72	95.73	95.19	-----	-----	Average

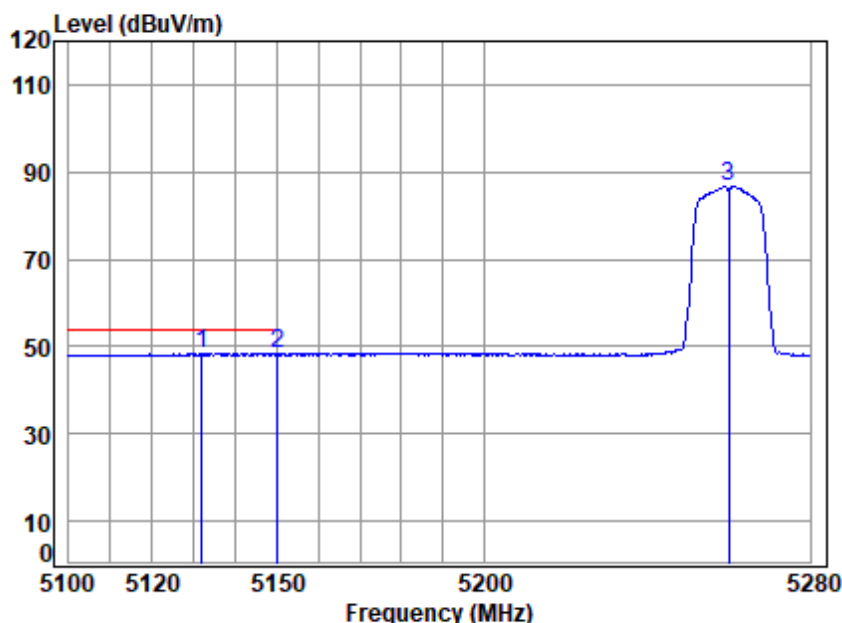
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5260 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5121.805	7.52	34.30	42.81	57.95	56.96	74.00	-17.04	Peak
2	5149.980	7.57	34.32	42.79	56.13	55.23	74.00	-18.77	Peak
3 *	5260.000	7.77	34.41	42.72	93.18	92.64	68.20	24.44	Peak

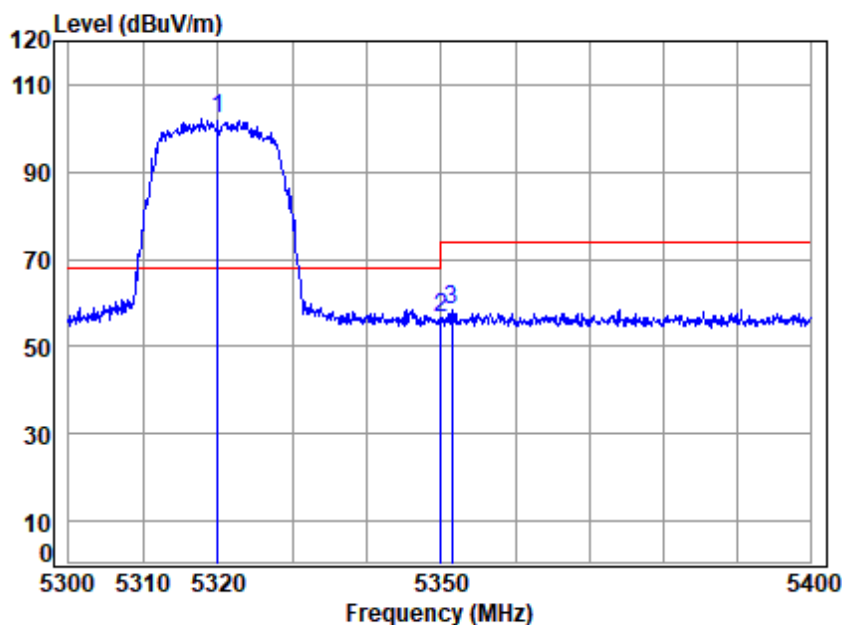
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 10640CR
 Mode : 5260 Band edge
 : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5131.763	7.54	34.31	42.81	49.21	48.25	54.00	-5.75	Average
2	5149.980	7.57	34.32	42.79	49.09	48.19	54.00	-5.81	Average
3	5260.000	7.77	34.41	42.72	87.17	86.63	-----	-----	Average

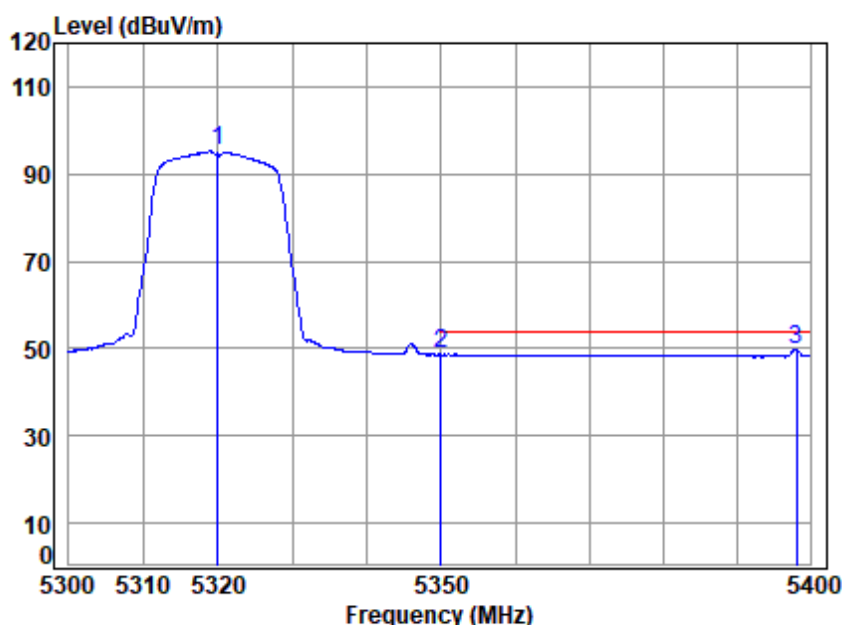
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5320 Band edge
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.68	102.65	102.30	68.20	34.10	peak
2 5350.020	7.92	34.48	42.66	57.06	56.80	74.00	-17.20	peak
3 5351.467	7.93	34.49	42.65	58.77	58.54	74.00	-15.46	peak

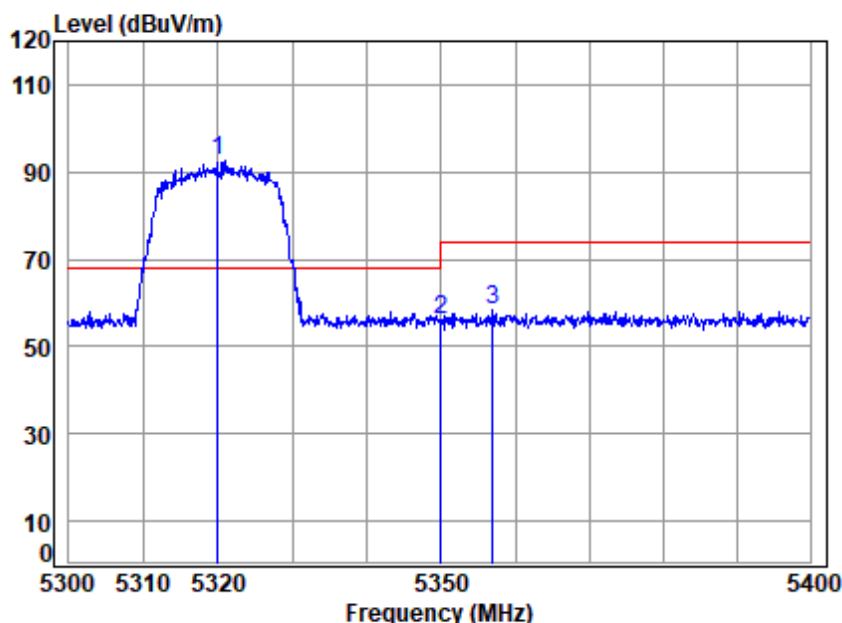
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5320 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.87	34.46	42.68	95.54	95.19	-----	-----	Average
2	5350.020	7.92	34.48	42.66	48.86	48.60	54.00	-5.40	Average
3	5398.184	8.01	34.52	42.62	49.92	49.83	54.00	-4.17	Average

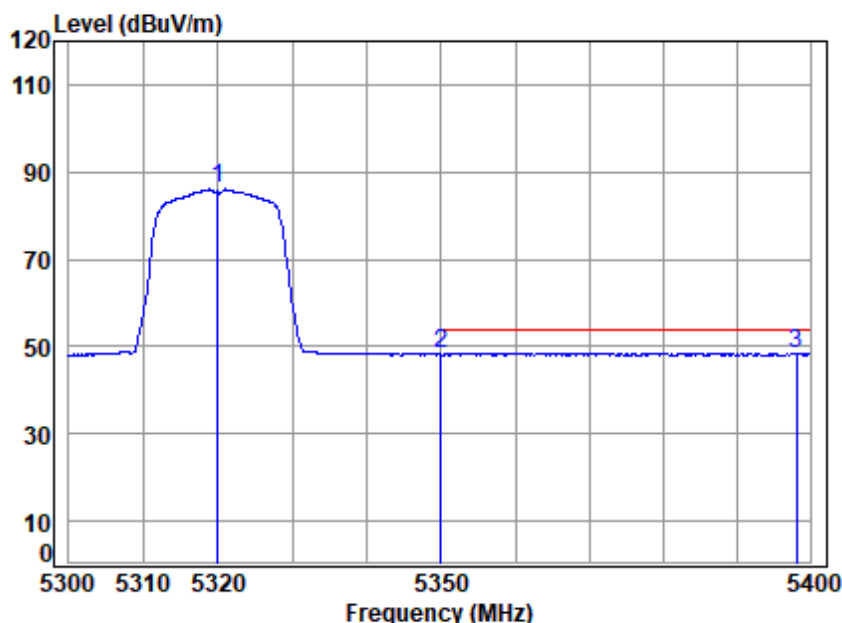
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5320 Band edge
: 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.68	93.20	92.85	68.20	24.65	Peak
2 5350.020	7.92	34.48	42.66	56.16	55.90	74.00	-18.10	Peak
3 5356.971	7.94	34.49	42.65	58.62	58.40	74.00	-15.60	Peak

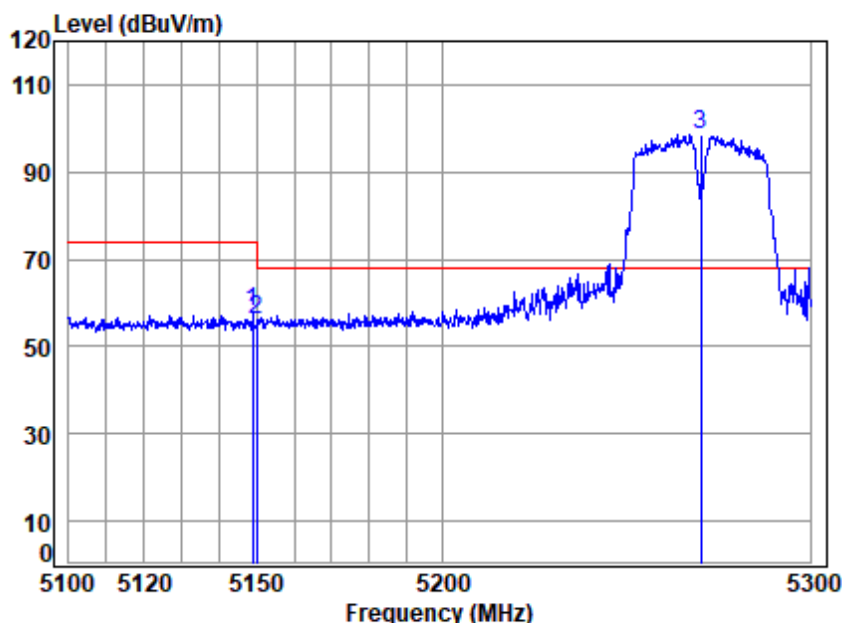
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5320 Band edge
: 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	5320.000	7.87	34.46	42.68	86.40	86.05	-----	-----	Average
2	5350.020	7.92	34.48	42.66	48.47	48.21	54.00	-5.79	Average
3	5398.184	8.01	34.52	42.62	48.42	48.33	54.00	-5.67	Average

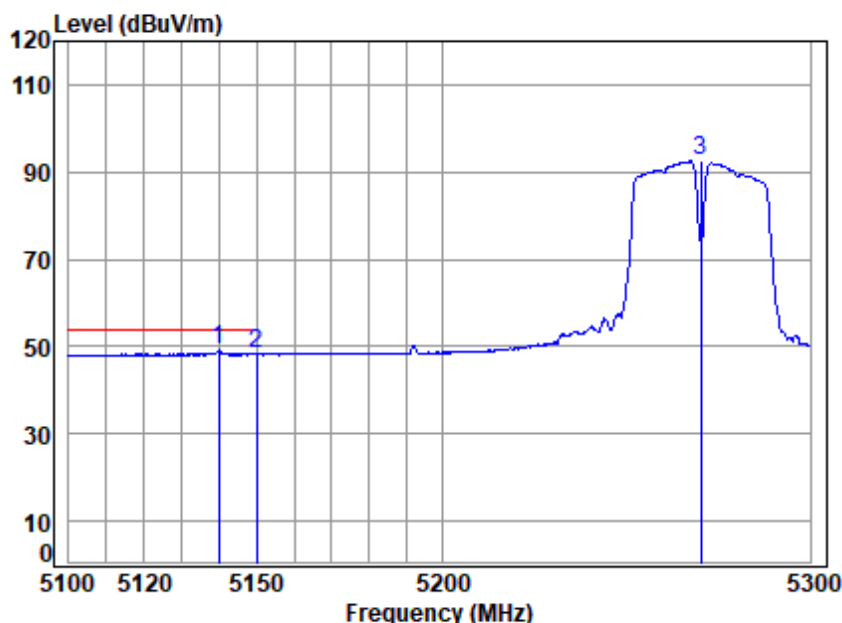
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5270 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.885	7.57	34.32	42.79	58.65	57.75	74.00	-16.25	peak
2	5149.980	7.57	34.32	42.79	56.81	55.91	74.00	-18.09	peak
3 *	5270.000	7.79	34.42	42.71	99.27	98.77	68.20	30.57	peak

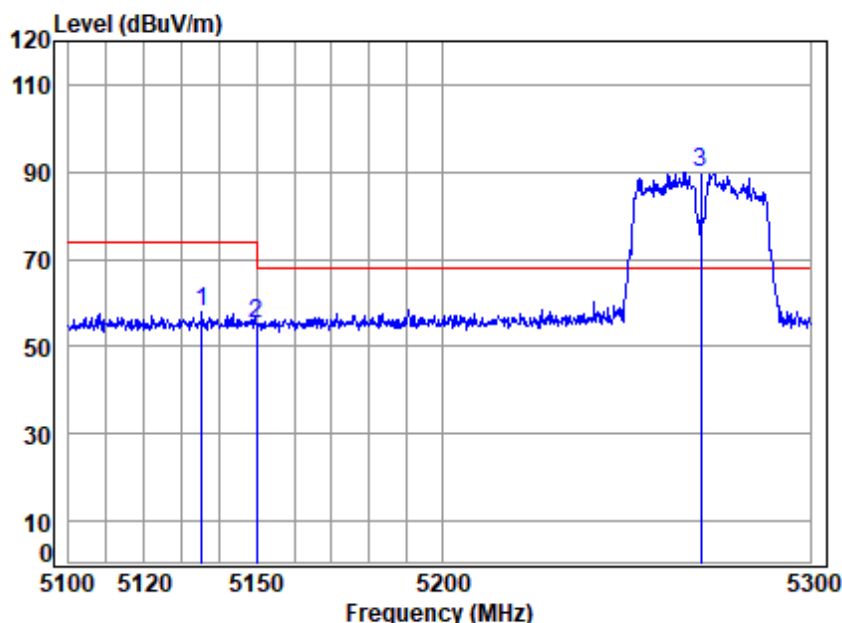
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5270 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5139.980	7.55	34.32	42.80	50.14	49.21	54.00	-4.79	Average
2	5149.980	7.57	34.32	42.79	49.21	48.31	54.00	-5.69	Average
3	5270.000	7.79	34.42	42.71	93.02	92.52	-----	-----	Average

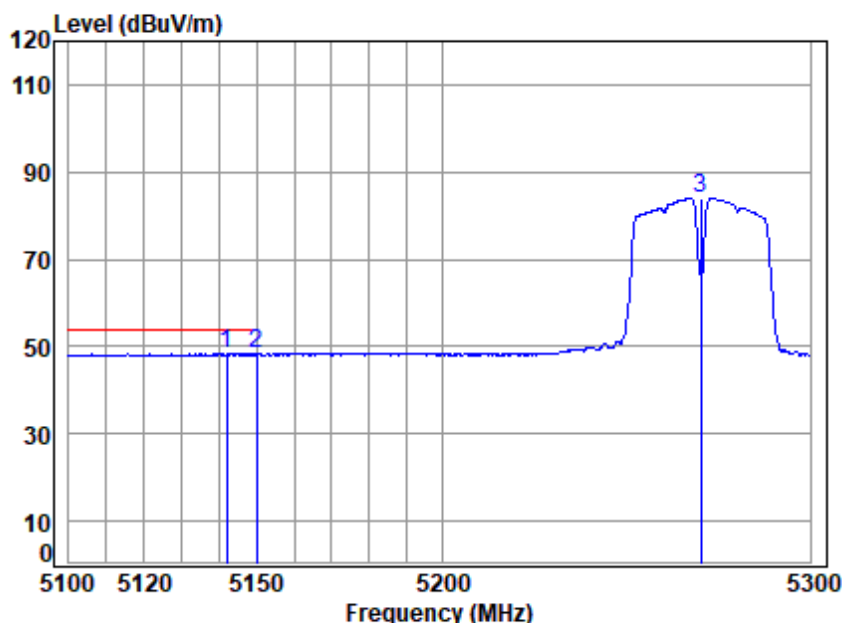
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5270 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5135.435	7.55	34.31	42.80	58.71	57.77	74.00	-16.23	Peak
2	5149.980	7.57	34.32	42.79	56.20	55.30	74.00	-18.70	Peak
3 *	5270.000	7.79	34.42	42.71	90.24	89.74	68.20	21.54	Peak

Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5270 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5141.958	7.56	34.32	42.80	49.15	48.23	54.00	-5.77	Average
2	5149.980	7.57	34.32	42.79	49.09	48.19	54.00	-5.81	Average
3	5270.000	7.79	34.42	42.71	84.66	84.16	-----	-----	Average



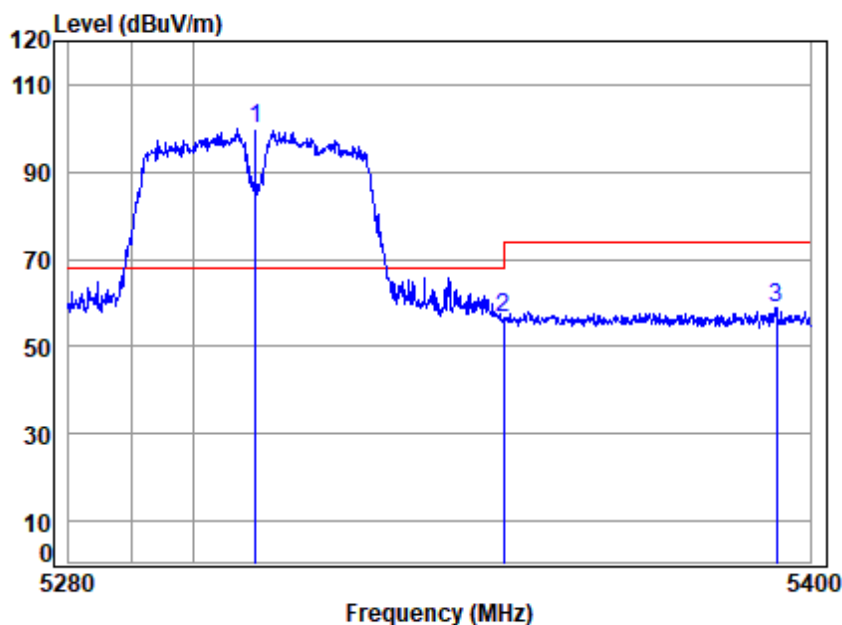
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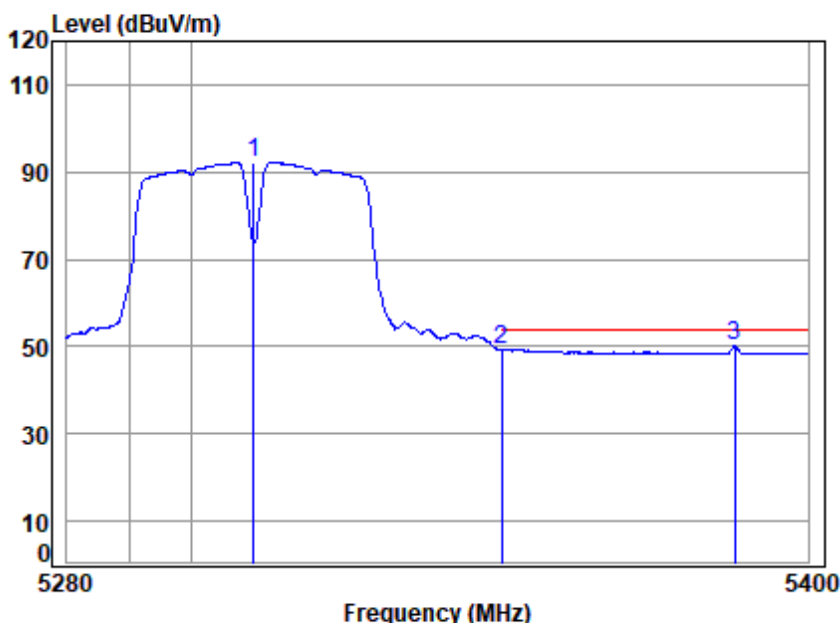
Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5310 Band edge
: 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 * 5310.000	7.86	34.45	42.68	100.51	100.14	68.20	31.94	peak
2 5350.020	7.92	34.48	42.66	56.92	56.66	74.00	-17.34	peak
3 5394.542	8.00	34.52	42.63	58.97	58.86	74.00	-15.14	peak

Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5310 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	7.86	34.45	42.68	92.63	92.26	-----	-----	Average
2	5350.020	7.92	34.48	42.66	49.59	49.33	54.00	-4.67	Average
3	5388.000	7.99	34.51	42.63	50.22	50.09	54.00	-3.91	Average



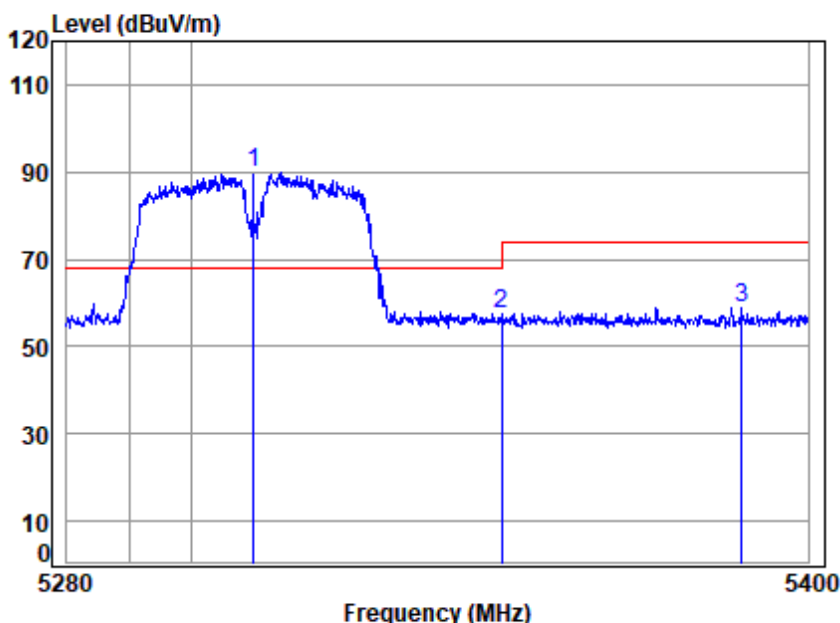
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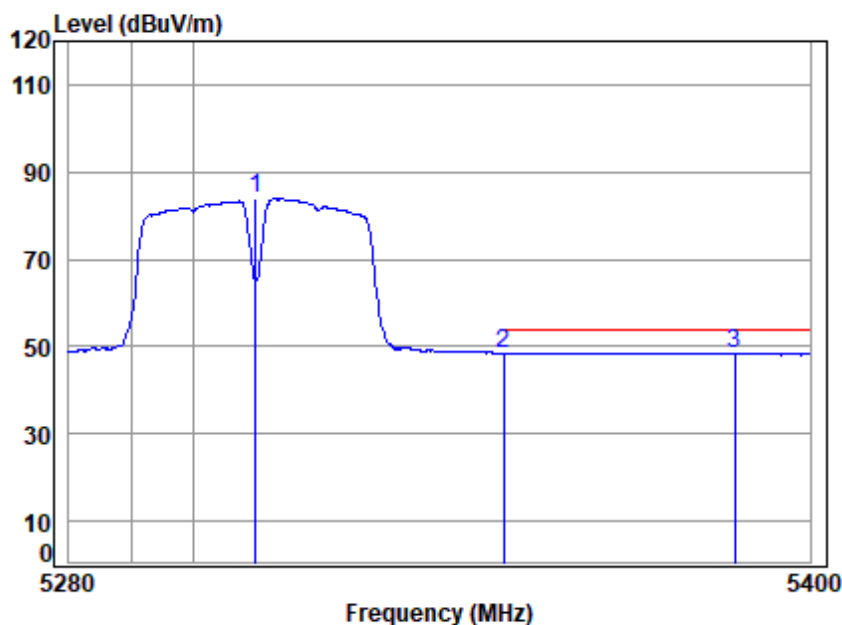
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5310 Band edge
: 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5310.000	7.86	34.45	42.68	90.32	89.95	68.20	21.75	Peak
2 5350.020	7.92	34.48	42.66	57.64	57.38	74.00	-16.62	Peak
3 5389.089	7.99	34.51	42.63	59.20	59.07	74.00	-14.93	Peak

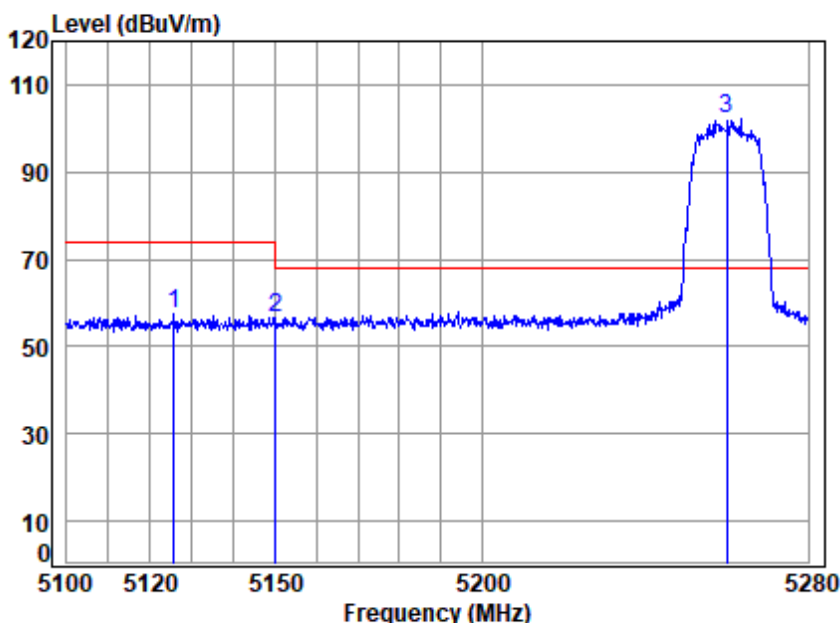
Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5310 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	7.86	34.45	42.68	84.30	83.93	-----	-----	Average
2	5350.020	7.92	34.48	42.66	48.59	48.33	54.00	-5.67	Average
3	5387.636	7.99	34.51	42.63	48.59	48.46	54.00	-5.54	Average

Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5260 Band edge
: 5G WIFI 11AC20

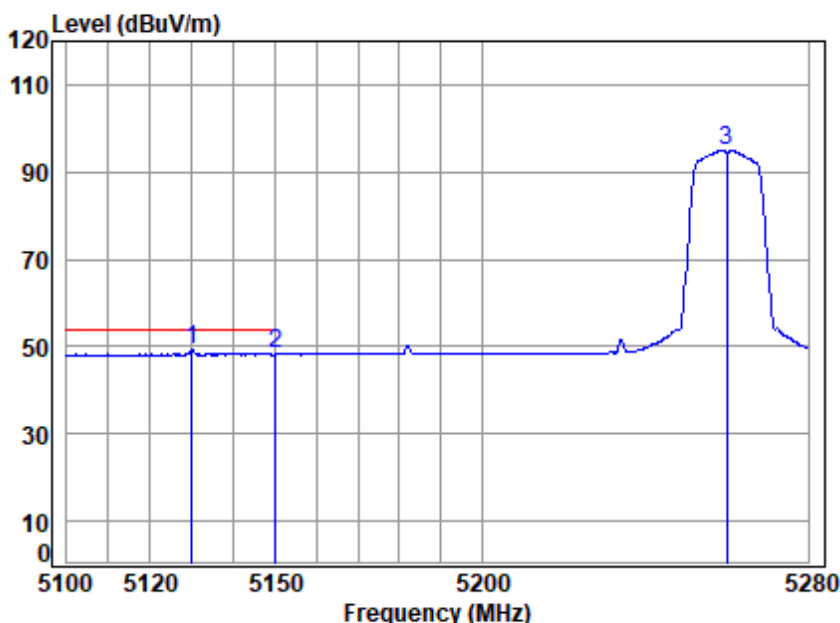
		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5125.714	7.53	34.30	42.81	58.28	57.30	74.00	-16.70	peak
2	5149.980	7.57	34.32	42.79	57.65	56.75	74.00	-17.25	peak
3 *	5260.000	7.77	34.41	42.72	102.88	102.34	68.20	34.14	peak



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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5260 Band edge
: 5G WIFI 11AC20

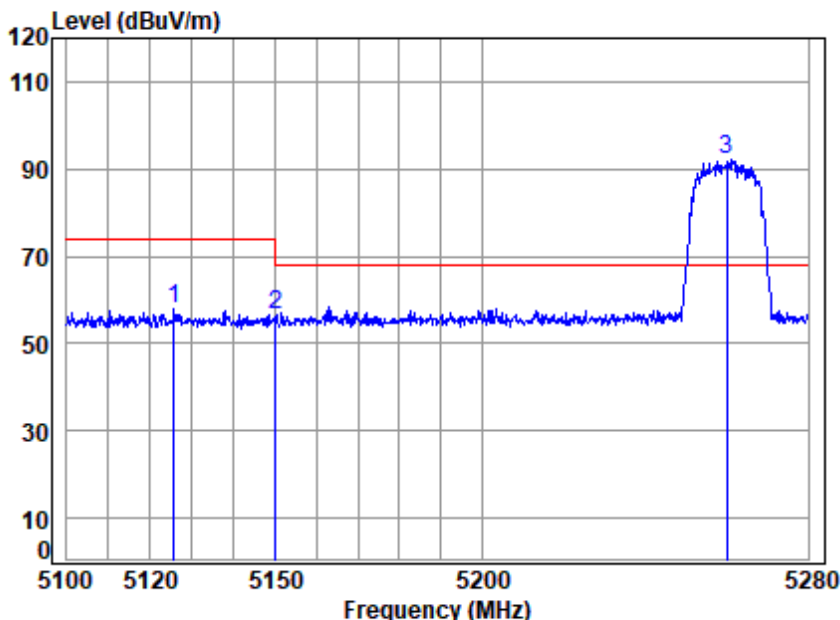
		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5129.983	7.54	34.31	42.81	50.03	49.07	54.00	-4.93	Average
2	5149.980	7.57	34.32	42.79	49.12	48.22	54.00	-5.78	Average
3	5260.000	7.77	34.41	42.72	95.63	95.09	-----	-----	Average



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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5260 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5125.714	7.53	34.30	42.81	58.95	57.97	74.00	-16.03	Peak
2	5149.980	7.57	34.32	42.79	57.28	56.38	74.00	-17.62	Peak
3 *	5260.000	7.77	34.41	42.72	92.84	92.30	68.20	24.10	Peak

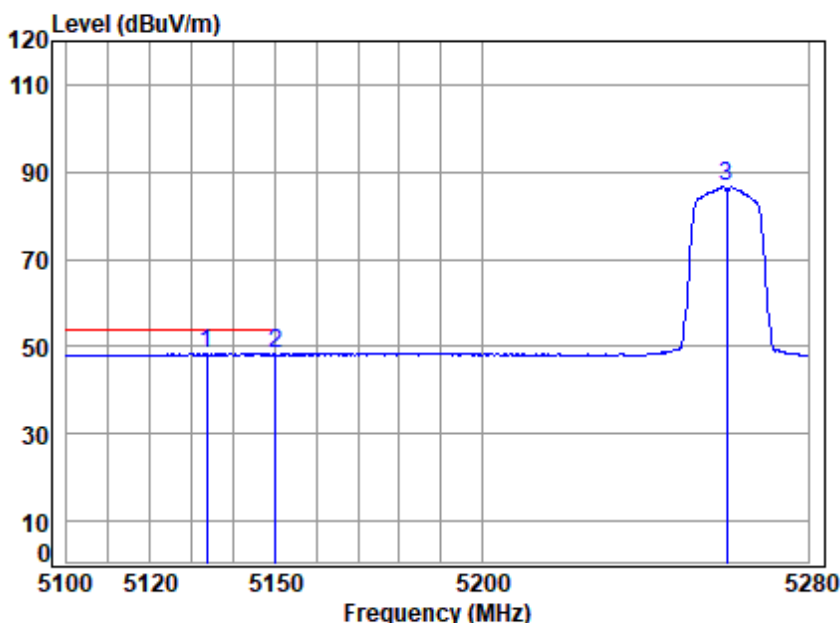


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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5260 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5133.543	7.54	34.31	42.80	49.23	48.28	54.00	-5.72	Average
2	5149.980	7.57	34.32	42.79	49.09	48.19	54.00	-5.81	Average
3	5260.000	7.77	34.41	42.72	87.09	86.55	-----	-----	Average



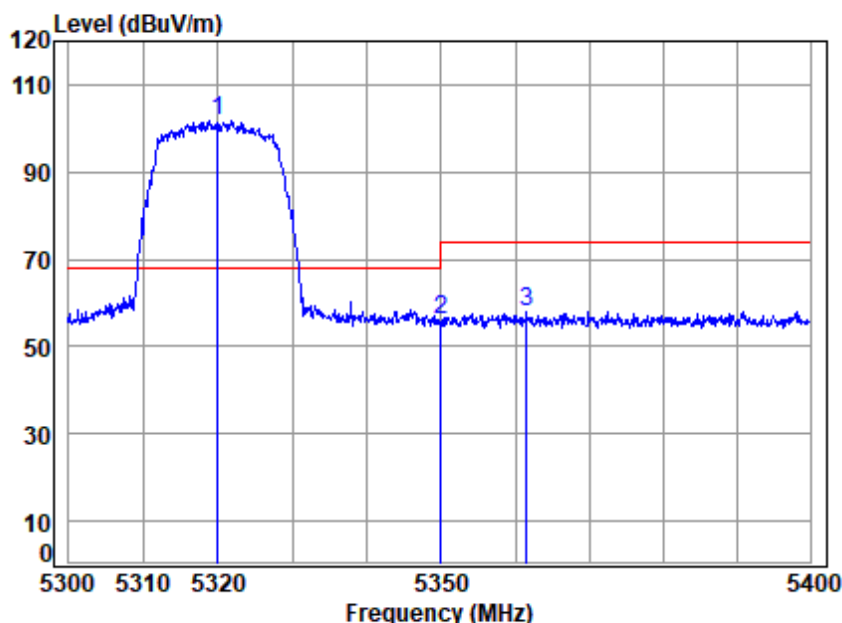
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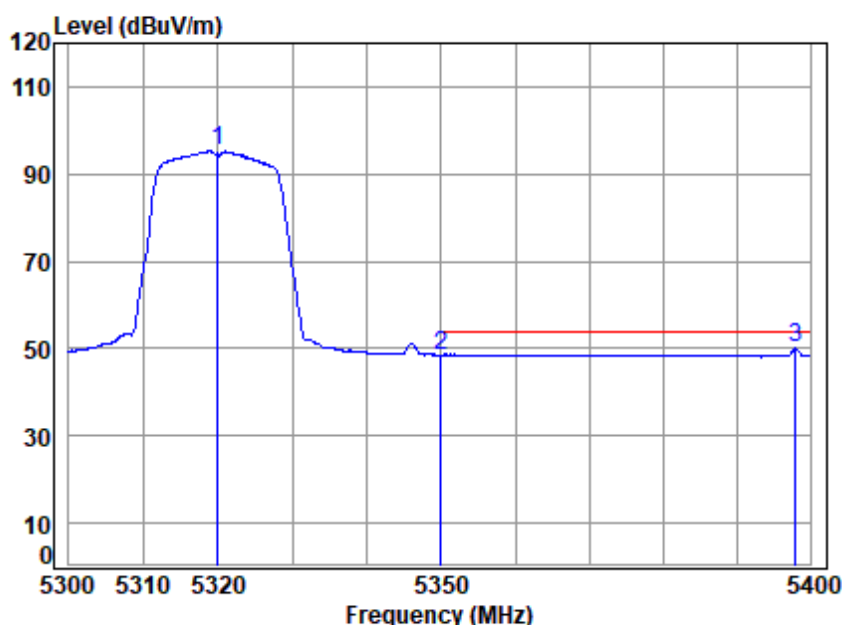
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5320 Band edge
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.68	102.18	101.83	68.20	33.63	peak
2 5350.020	7.92	34.48	42.66	56.47	56.21	74.00	-17.79	peak
3 5361.579	7.94	34.49	42.65	58.29	58.07	74.00	-15.93	peak

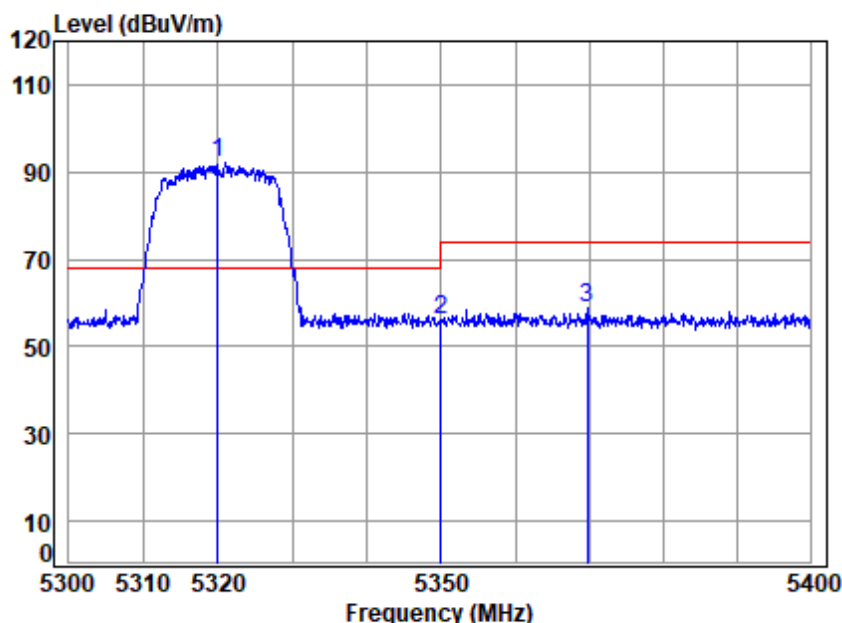
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5320 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.87	34.46	42.68	95.60	95.25	-----	-----	Average
2	5350.020	7.92	34.48	42.66	48.83	48.57	54.00	-5.43	Average
3	5397.981	8.01	34.52	42.62	50.10	50.01	54.00	-3.99	Average

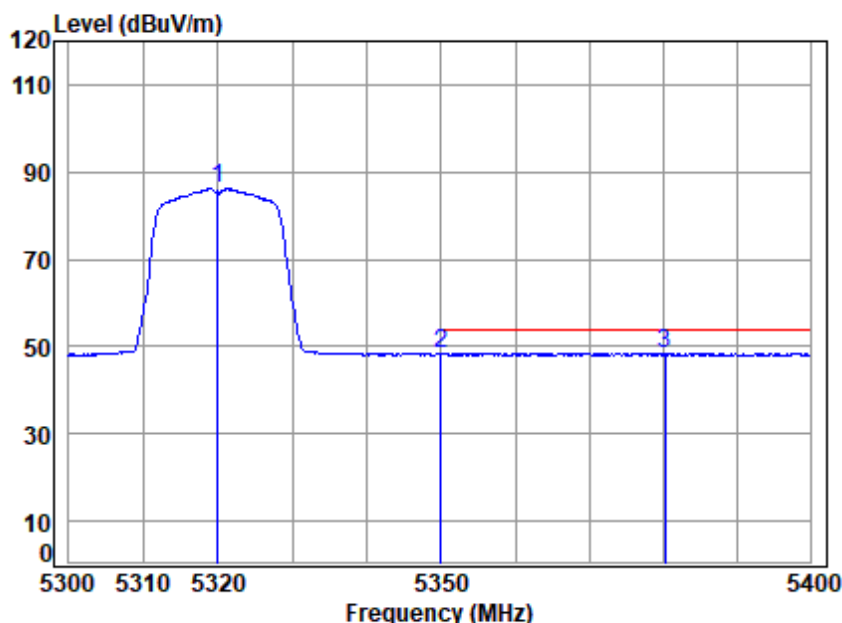
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5320 Band edge
: 5G WIFI 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.000	7.87	34.46	42.68	92.48	92.13	68.20	23.93	Peak
2 5350.020	7.92	34.48	42.66	56.50	56.24	74.00	-17.76	Peak
3 5369.804	7.96	34.50	42.64	59.02	58.84	74.00	-15.16	Peak

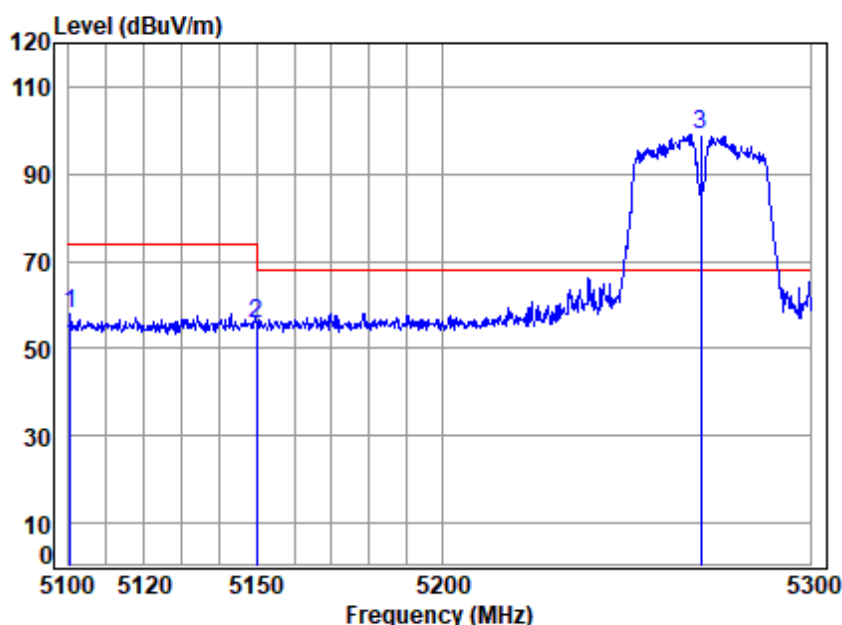
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5320 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	7.87	34.46	42.68	86.60	86.25	-----	-----	Average
2	5350.020	7.92	34.48	42.66	48.42	48.16	54.00	-5.84	Average
3	5380.252	7.98	34.51	42.63	48.47	48.33	54.00	-5.67	Average

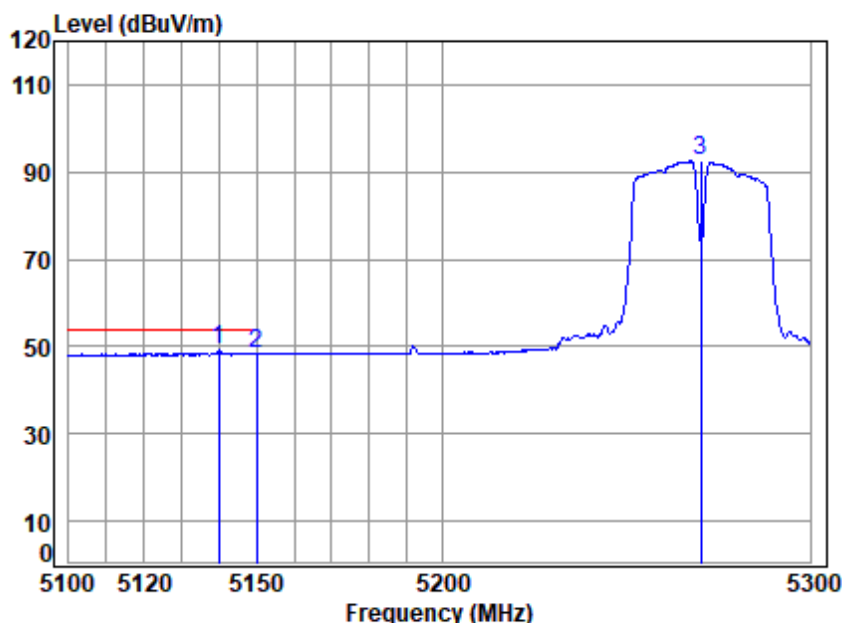
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5270 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5100.393	7.48	34.28	42.83	58.90	57.83	74.00	-16.17	peak
2	5149.980	7.57	34.32	42.79	56.65	55.75	74.00	-18.25	peak
3 *	5270.000	7.79	34.42	42.71	99.37	98.87	68.20	30.67	peak

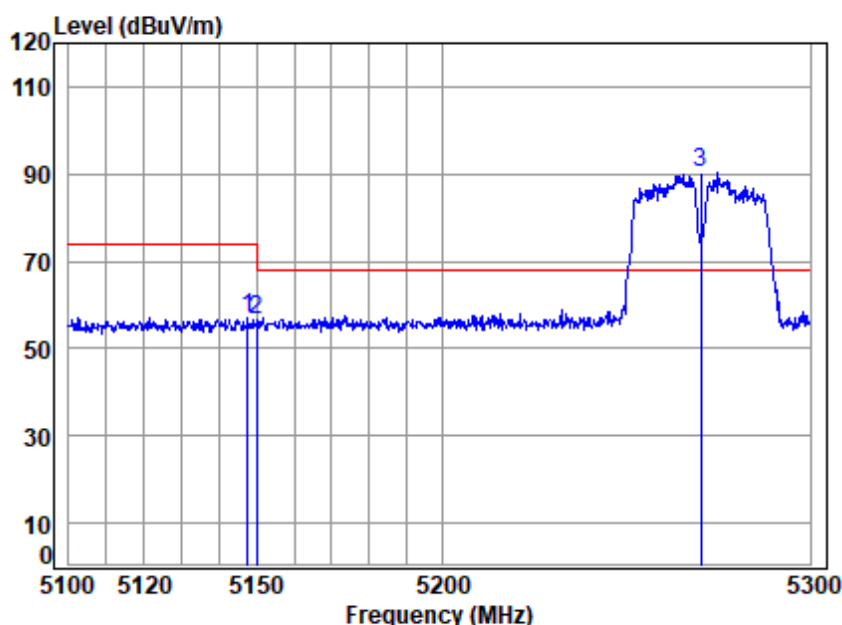
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5270 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5139.980	7.55	34.32	42.80	50.13	49.20	54.00	-4.80	Average
2	5149.980	7.57	34.32	42.79	49.17	48.27	54.00	-5.73	Average
3	5270.000	7.79	34.42	42.71	92.98	92.48	-----	-----	Average

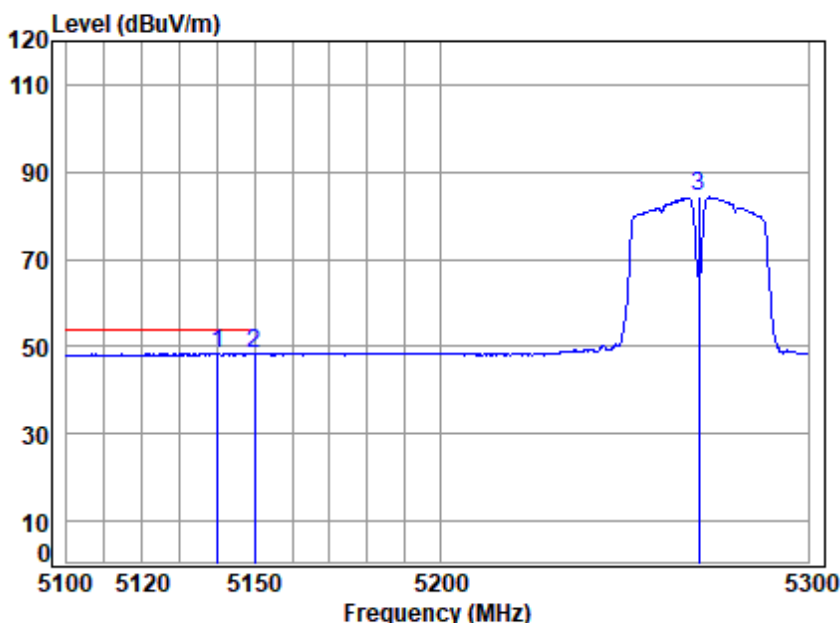
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5270 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.697	7.57	34.32	42.79	58.09	57.19	74.00	-16.81	Peak
2	5149.980	7.57	34.32	42.79	57.62	56.72	74.00	-17.28	Peak
3 *	5270.000	7.79	34.42	42.71	90.93	90.43	68.20	22.23	Peak

Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5270 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5140.178	7.56	34.32	42.80	49.23	48.31	54.00	-5.69	Average
2	5149.980	7.57	34.32	42.79	49.08	48.18	54.00	-5.82	Average
3	5270.000	7.79	34.42	42.71	84.75	84.25	-----	-----	Average



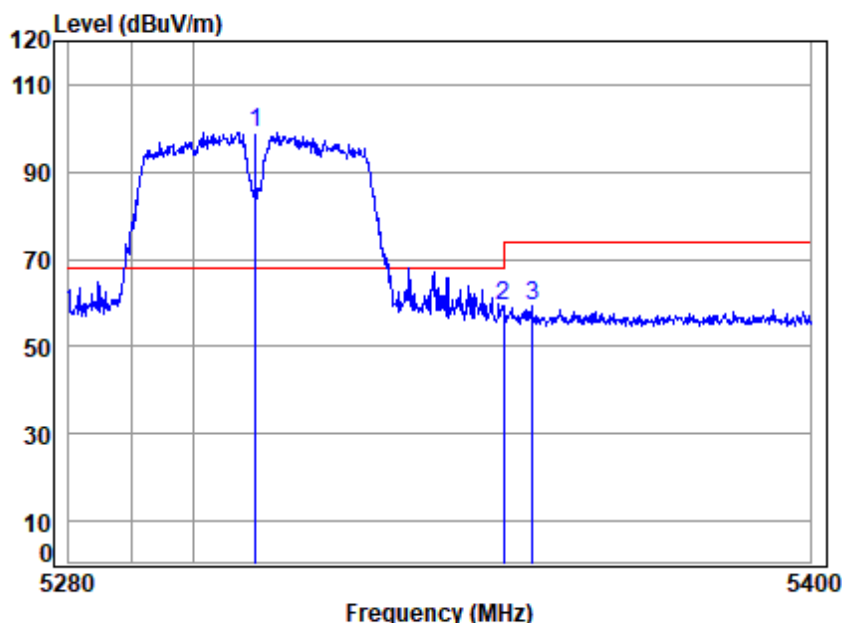
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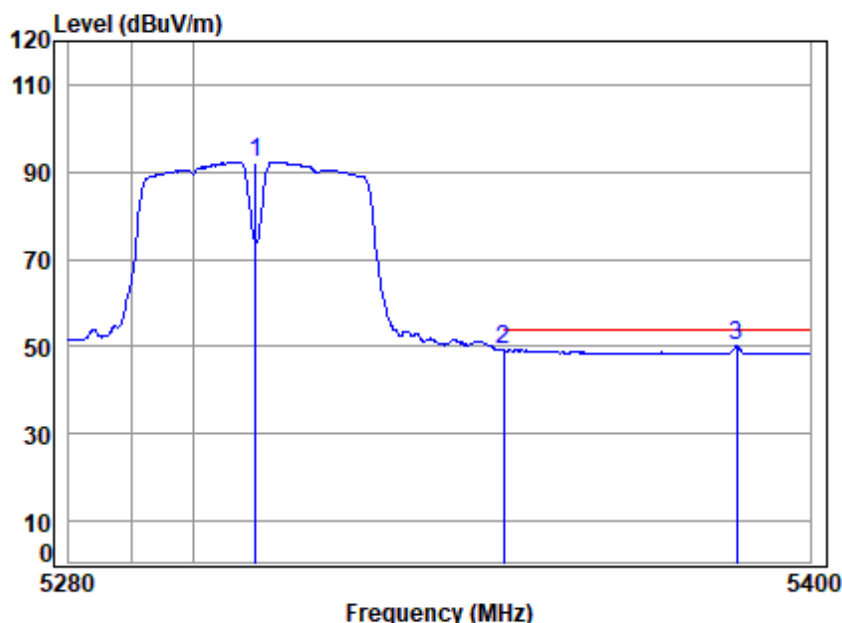
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5310 Band edge
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5310.000	7.86	34.45	42.68	99.60	99.23	68.20	31.03	peak
2 5350.020	7.92	34.48	42.66	59.71	59.45	74.00	-14.55	peak
3 5354.684	7.93	34.49	42.65	59.34	59.11	74.00	-14.89	peak

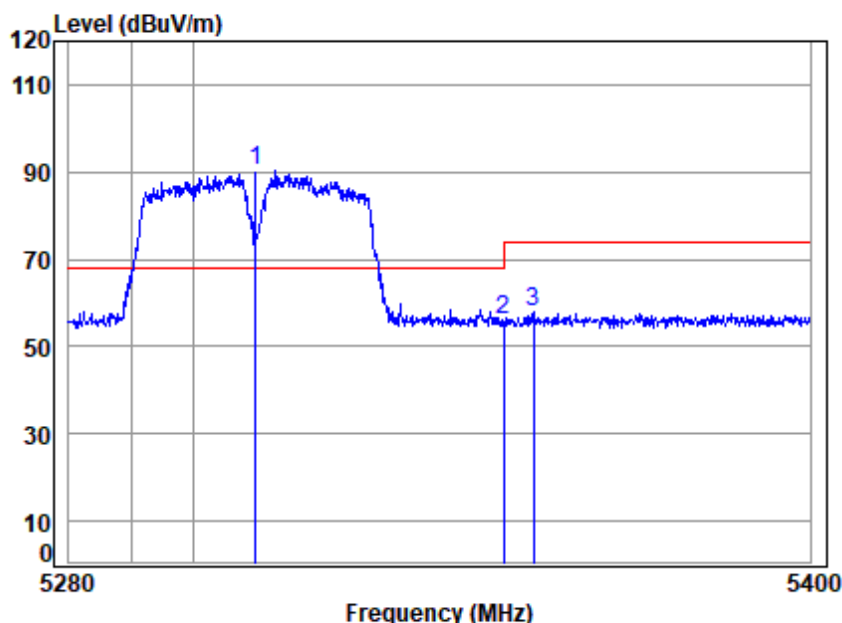
Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5310 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	7.86	34.45	42.68	92.73	92.36	-----	-----	Average
2	5350.020	7.92	34.48	42.66	49.52	49.26	54.00	-4.74	Average
3	5388.000	7.99	34.51	42.63	50.23	50.10	54.00	-3.90	Average

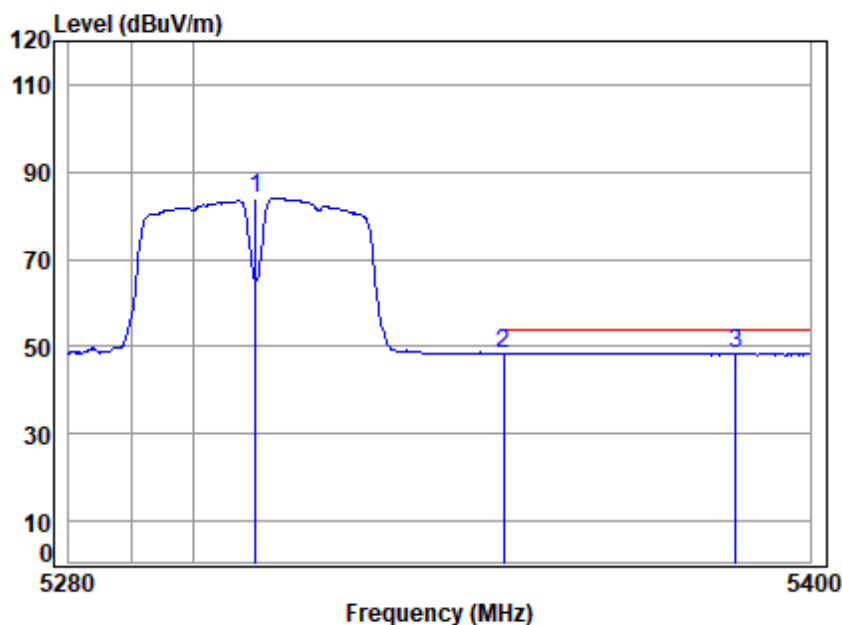
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5310 Band edge
: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5310.000	7.86	34.45	42.68	90.53	90.16	68.20	21.96	Peak
2 5350.020	7.92	34.48	42.66	56.18	55.92	74.00	-18.08	Peak
3 5354.924	7.93	34.49	42.65	57.97	57.74	74.00	-16.26	Peak

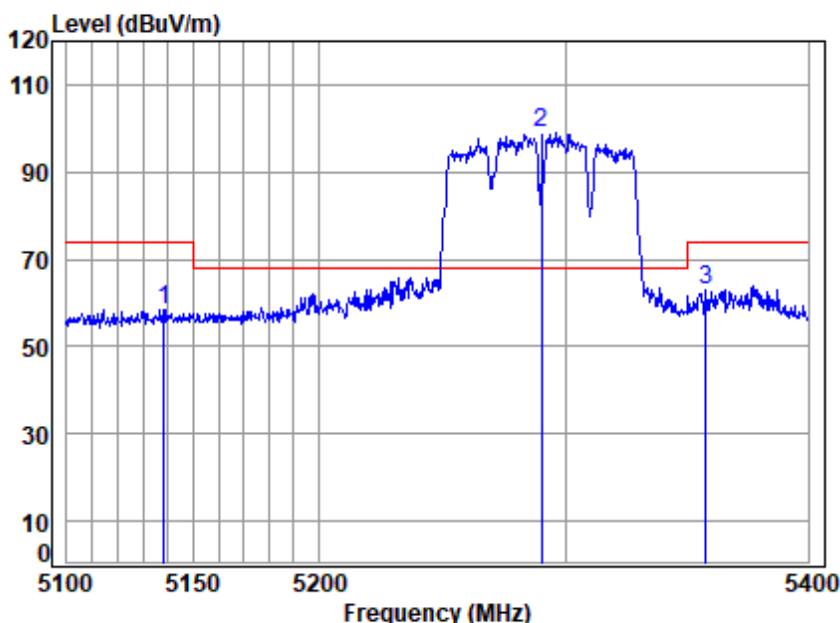
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5310 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	7.86	34.45	42.68	84.31	83.94	-----	-----	Average
2	5350.020	7.92	34.48	42.66	48.60	48.34	54.00	-5.66	Average
3	5387.878	7.99	34.51	42.63	48.60	48.47	54.00	-5.53	Average

Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5290 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5138.331	7.55	34.31	42.80	59.51	58.57	74.00	-15.43	peak
2 *	5290.000	7.82	34.44	42.70	99.30	98.86	68.20	30.66	peak
3	5357.573	7.94	34.49	42.65	63.05	62.83	74.00	-11.17	peak



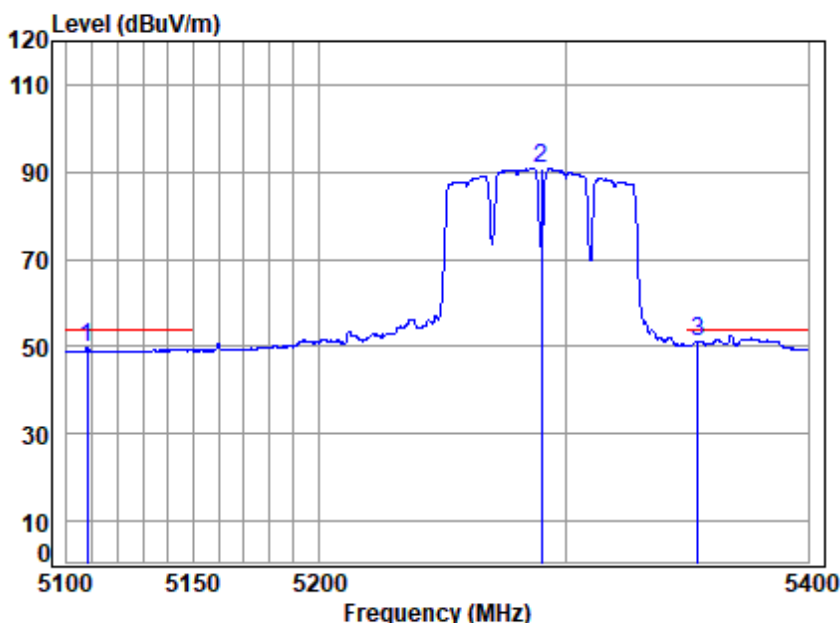
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5290 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB	
1	5108.169	7.50	34.29	42.82	50.64	49.61	54.00	-4.39	Average
2	5290.000	7.82	34.44	42.70	91.27	90.83	-----	-----	Average
3	5354.206	7.93	34.49	42.65	51.55	51.32	54.00	-2.68	Average



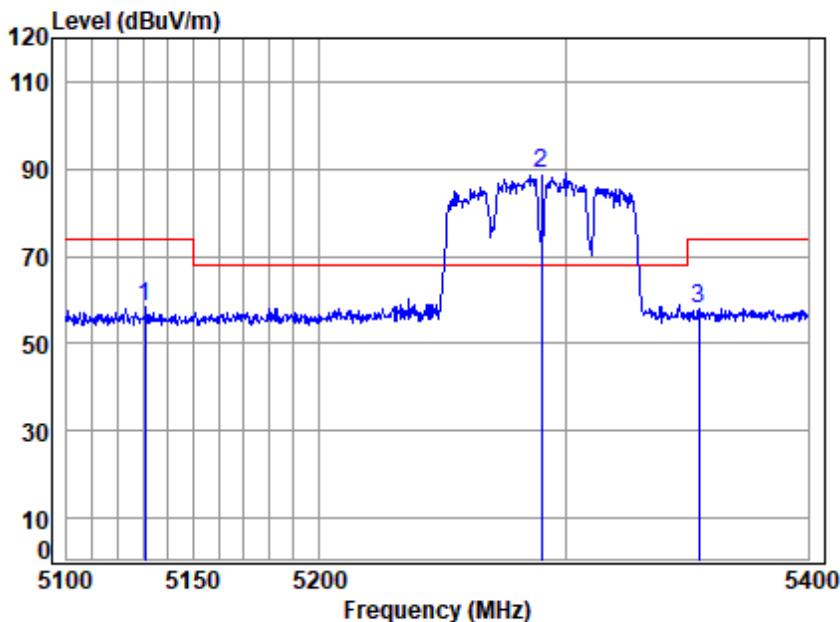
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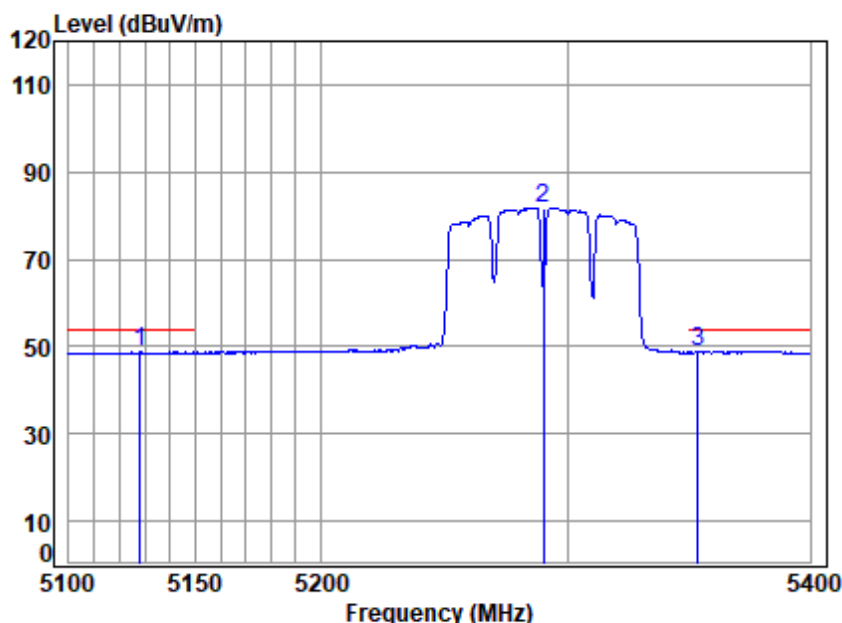
Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5290 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5130.994	7.54	34.31	42.81	59.30	58.34	74.00	-15.66	Peak
2 *	5290.000	7.82	34.44	42.70	89.19	88.75	68.20	20.55	Peak
3	5354.818	7.93	34.49	42.65	58.36	58.13	74.00	-15.87	Peak

Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5290 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB	
1	5128.062	7.53	34.31	42.81	49.66	48.69	54.00	-5.31	Average
2	5290.000	7.82	34.44	42.70	82.20	81.76	-----	-----	Average
3	5353.594	7.93	34.49	42.65	49.00	48.77	54.00	-5.23	Average

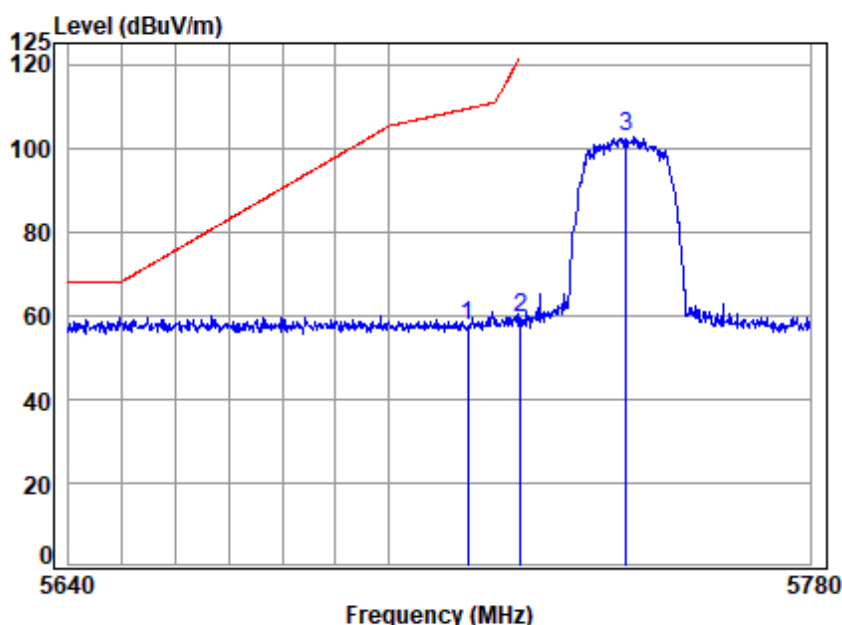


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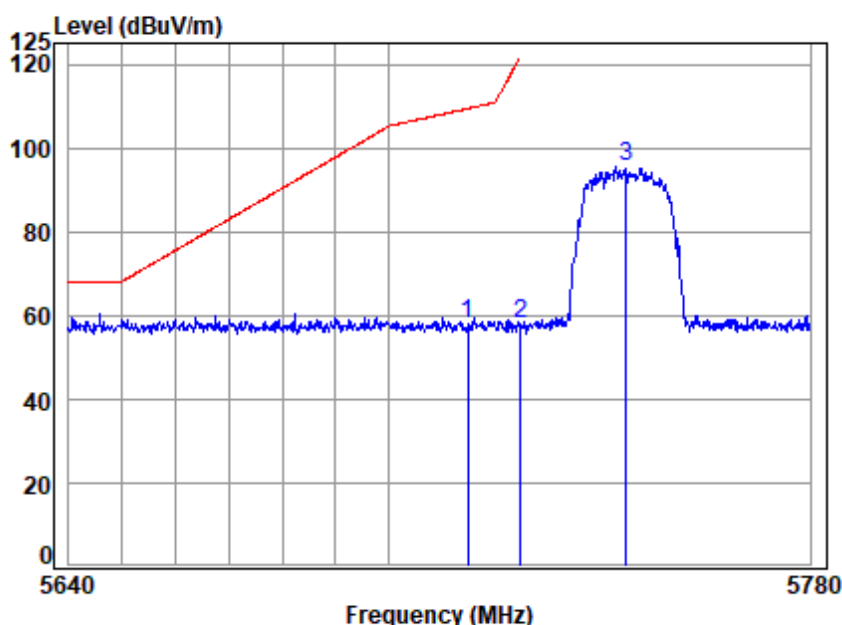
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5745 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	56.86	57.48	109.40	-51.92	peak
2	5725.000	8.22	34.83	42.41	58.90	59.54	122.20	-62.66	peak
3	5745.000	8.22	34.85	42.40	101.84	102.51	-----	-----	peak

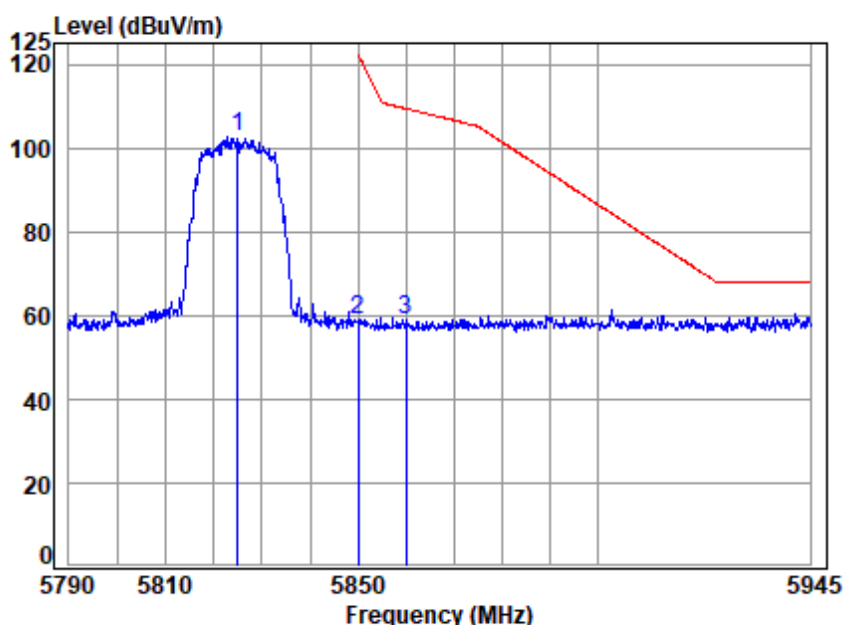
Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5745 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	57.49	58.11	109.40	-51.29	peak
2	5725.000	8.22	34.83	42.41	57.58	58.22	122.20	-63.98	peak
3	5745.000	8.22	34.85	42.40	94.89	95.56	-----	-----	peak

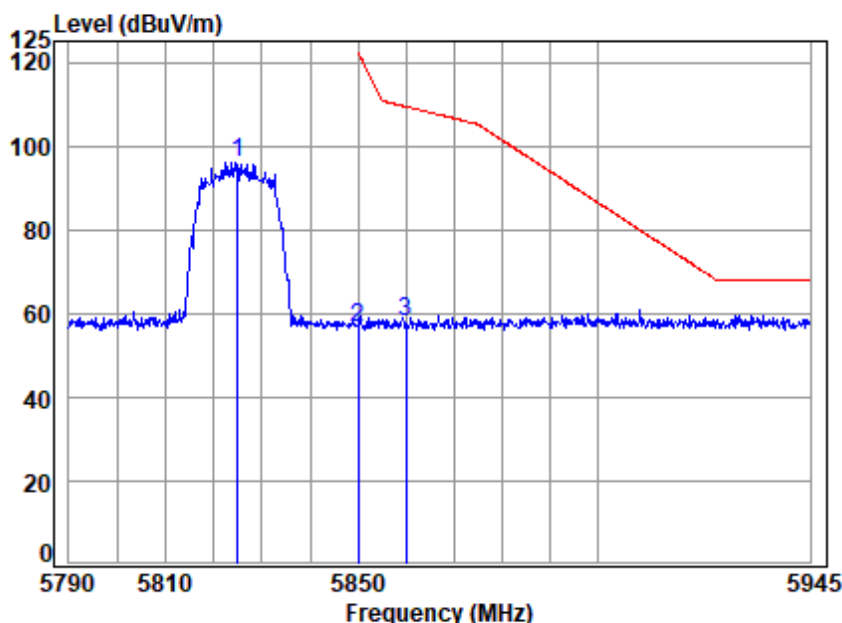
Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5825 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.23	34.93	42.35	101.62	102.43	-----	-----	peak
2	5850.000	8.24	34.95	42.33	58.04	58.90	122.20	-63.30	peak
3	5860.000	8.24	34.96	42.33	57.94	58.81	109.40	-50.59	peak

Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5825 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.23	34.93	42.35	95.37	96.18	-----	-----	peak
2	5850.000	8.24	34.95	42.33	55.56	56.42	122.20	-65.78	peak
3	5860.000	8.24	34.96	42.33	57.13	58.00	109.40	-51.40	peak



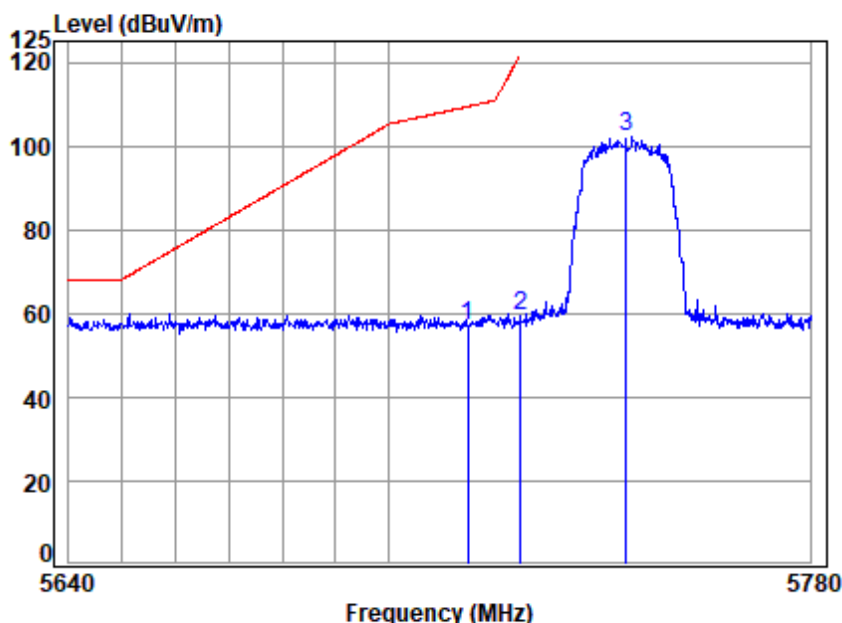
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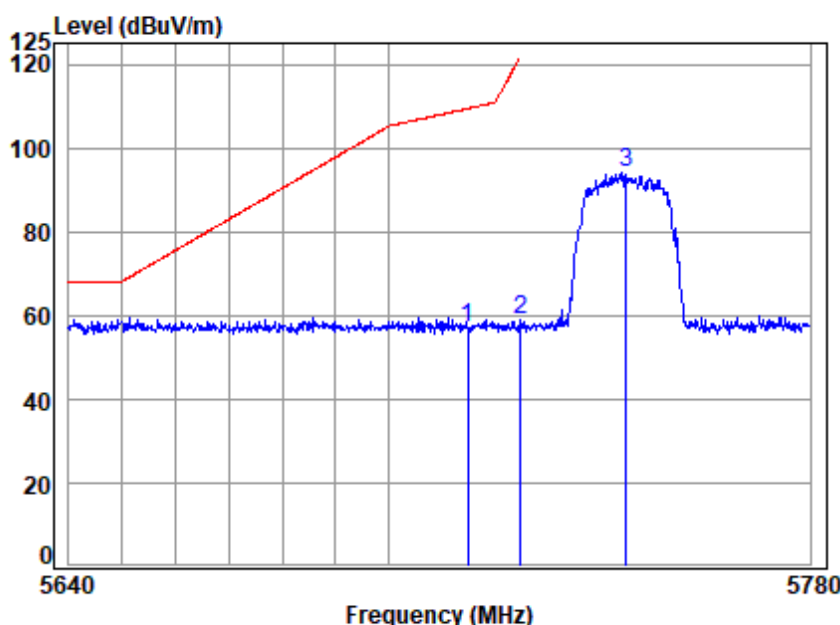
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5745 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	56.49	57.11	109.40	-52.29	peak
2	5725.000	8.22	34.83	42.41	58.69	59.33	122.20	-62.87	peak
3	5745.000	8.22	34.85	42.40	101.54	102.21	-----	-----	peak

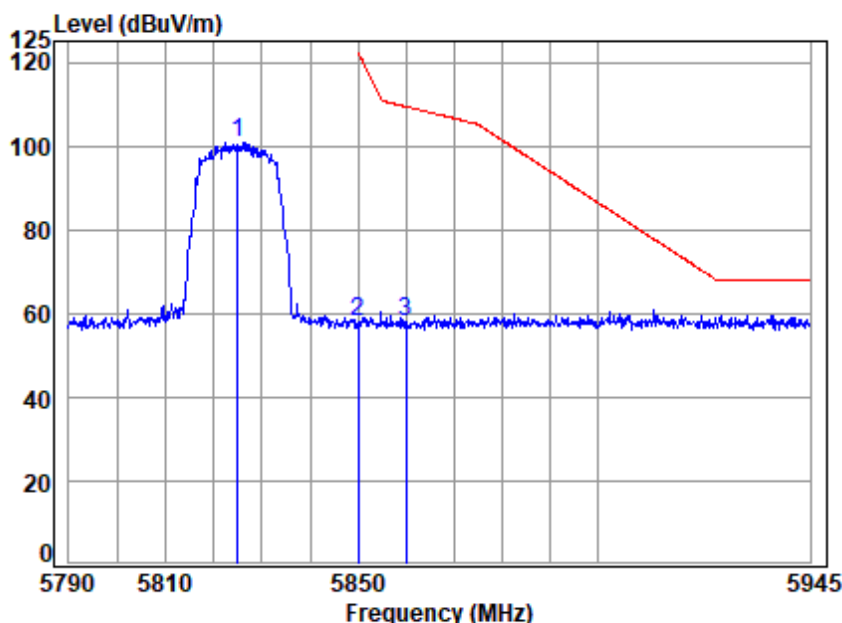
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5745 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	56.19	56.81	109.40	-52.59	peak
2	5725.000	8.22	34.83	42.41	58.06	58.70	122.20	-63.50	peak
3	5745.000	8.22	34.85	42.40	93.66	94.33	-----	-----	peak

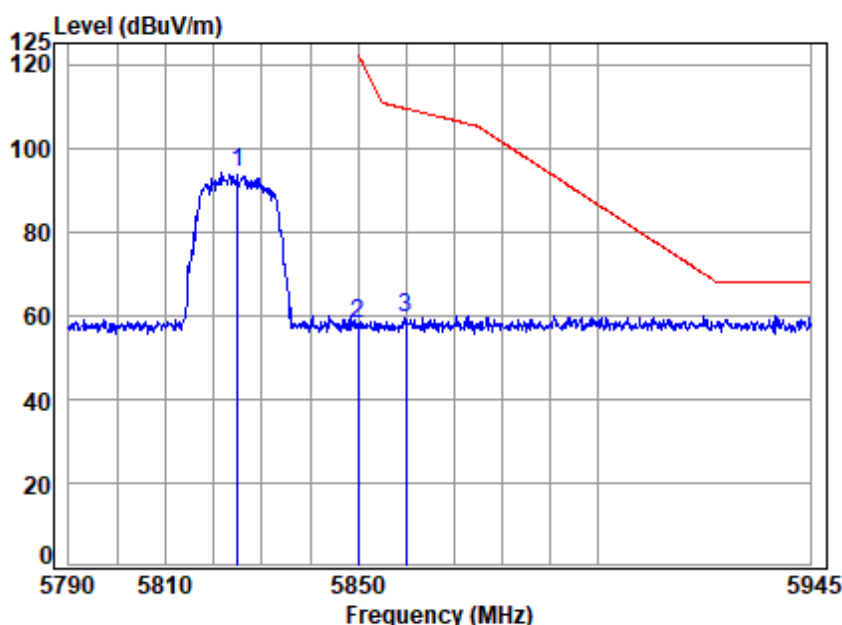
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5825 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.23	34.93	42.35	100.11	100.92	-----	-----	peak
2	5850.000	8.24	34.95	42.33	56.97	57.83	122.20	-64.37	peak
3	5860.000	8.24	34.96	42.33	57.03	57.90	109.40	-51.50	peak

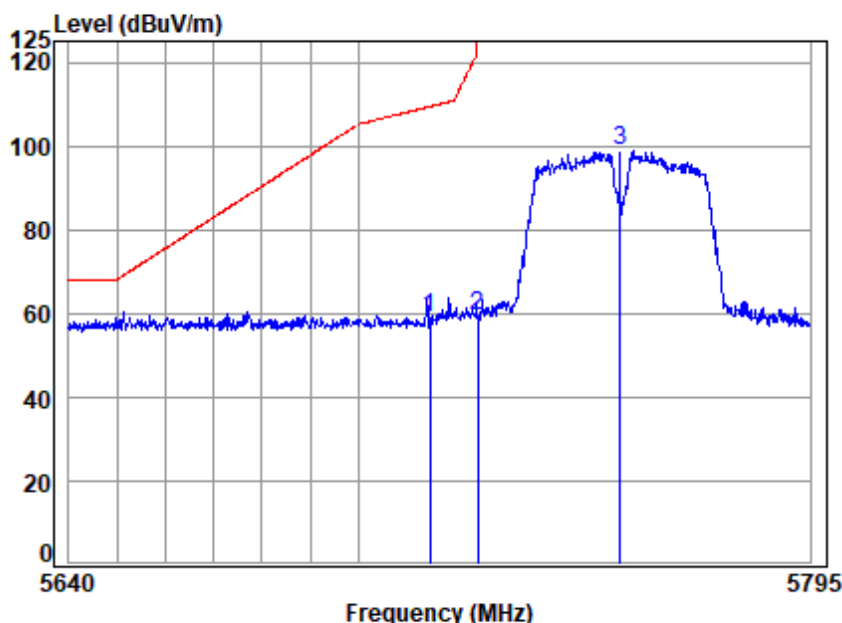
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5825 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.23	34.93	42.35	93.19	94.00	-----	-----	peak
2	5850.000	8.24	34.95	42.33	57.01	57.87	122.20	-64.33	peak
3	5860.000	8.24	34.96	42.33	58.37	59.24	109.40	-50.16	peak

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5755 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	58.16	58.78	109.40	-50.62	peak
2	5725.000	8.22	34.83	42.41	58.68	59.32	122.20	-62.88	peak
3	5755.000	8.22	34.86	42.39	98.05	98.74	-----	-----	peak



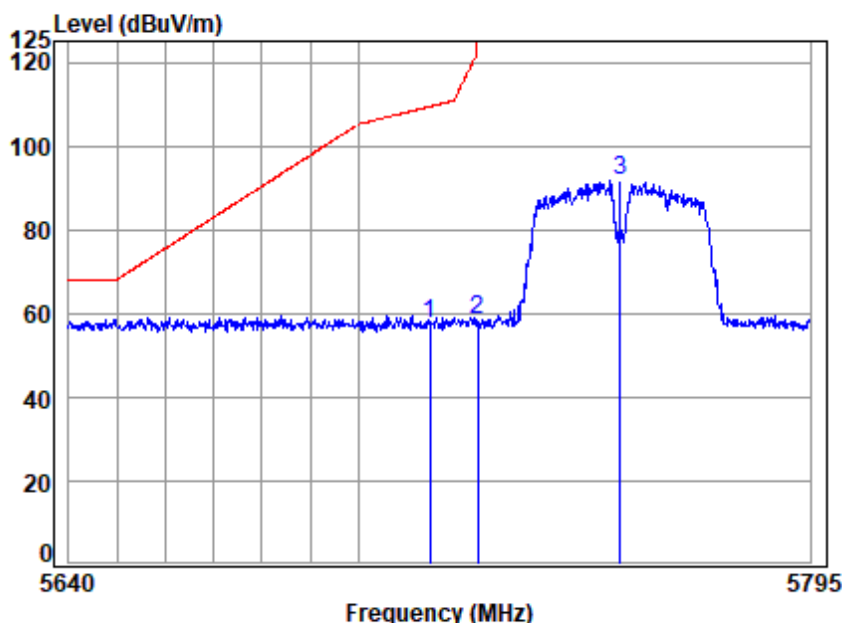
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Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5755 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	56.68	57.30	109.40	-52.10	peak
2	5725.000	8.22	34.83	42.41	57.95	58.59	122.20	-63.61	peak
3	5755.000	8.22	34.86	42.39	91.04	91.73	-----	-----	peak



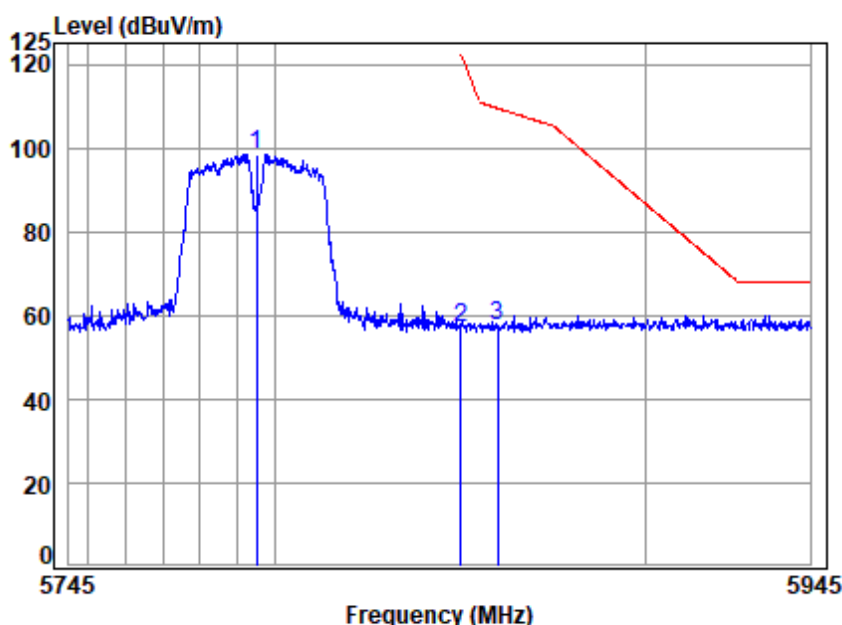
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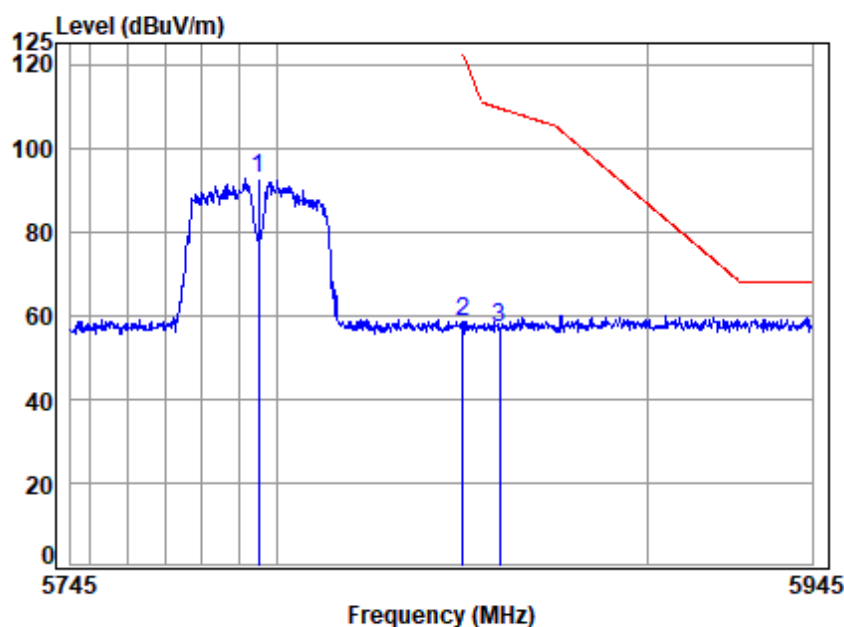
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5795 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.23	34.90	42.37	97.74	98.50	-----	-----	peak
2	5850.000	8.24	34.95	42.33	56.09	56.95	122.20	-65.25	peak
3	5860.000	8.24	34.96	42.33	56.64	57.51	109.40	-51.89	peak

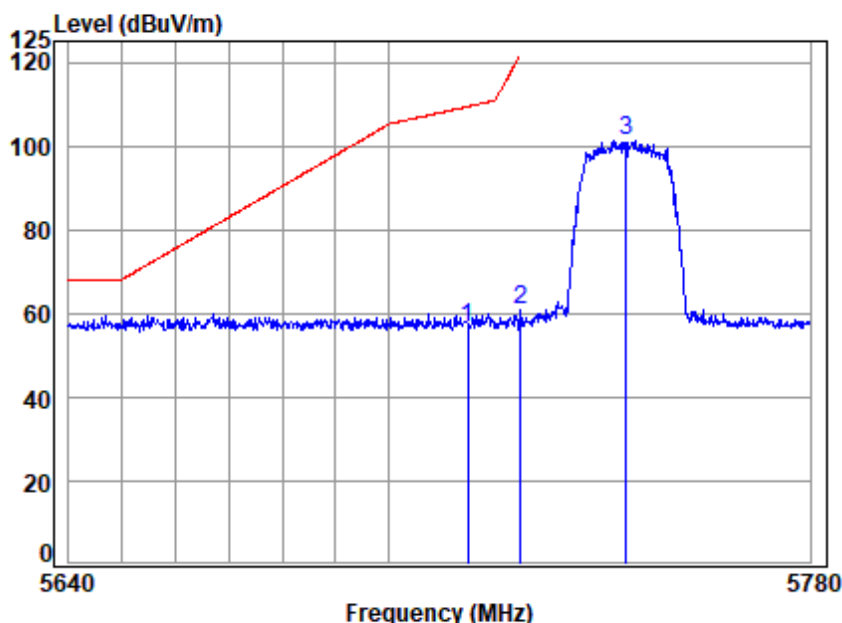
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5795 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.23	34.90	42.37	91.69	92.45	-----	-----	peak
2	5850.000	8.24	34.95	42.33	57.60	58.46	122.20	-63.74	peak
3	5860.000	8.24	34.96	42.33	56.16	57.03	109.40	-52.37	peak

Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5745 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	56.17	56.79	109.40	-52.61	peak
2	5725.000	8.22	34.83	42.41	60.10	60.74	122.20	-61.46	peak
3	5745.000	8.22	34.85	42.40	100.53	101.20	-----	-----	peak



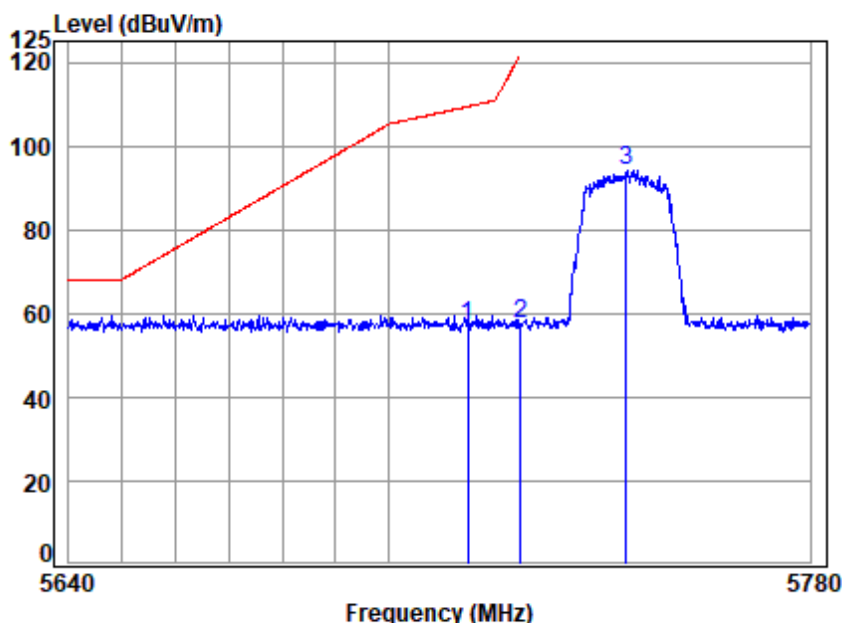
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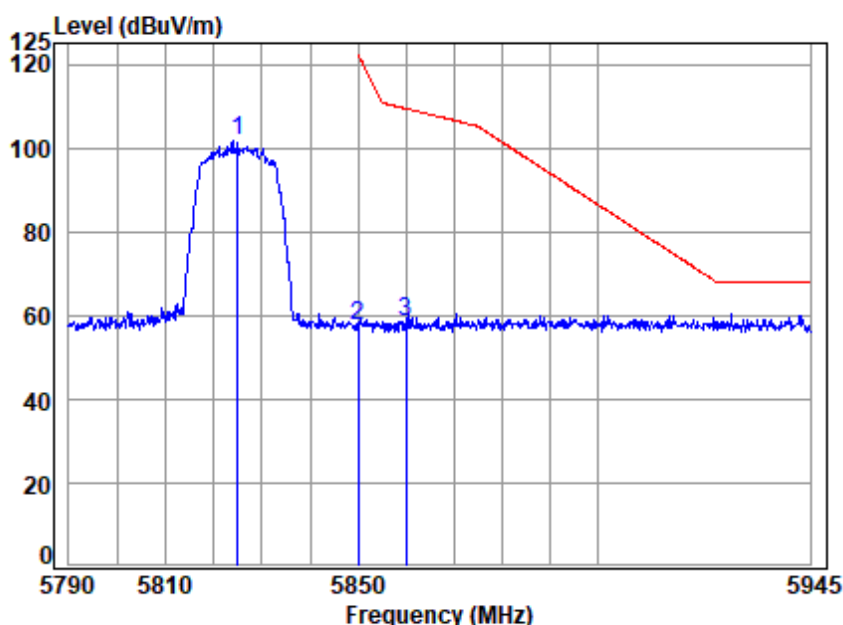
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5745 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	56.41	57.03	109.40	-52.37	peak
2	5725.000	8.22	34.83	42.41	57.09	57.73	122.20	-64.47	peak
3	5745.000	8.22	34.85	42.40	93.39	94.06	-----	-----	peak

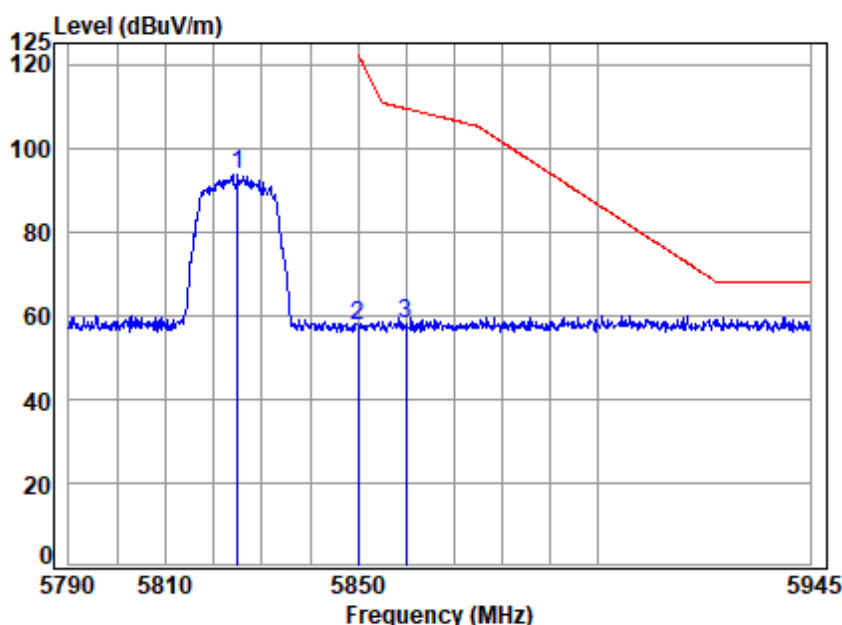
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5825 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5825.000	8.23	34.93	42.35	100.73	101.54	-----	-----	peak	
2 5850.000	8.24	34.95	42.33	56.50	57.36	122.20	-64.84	peak	
3 5860.000	8.24	34.96	42.33	57.70	58.57	109.40	-50.83	peak	

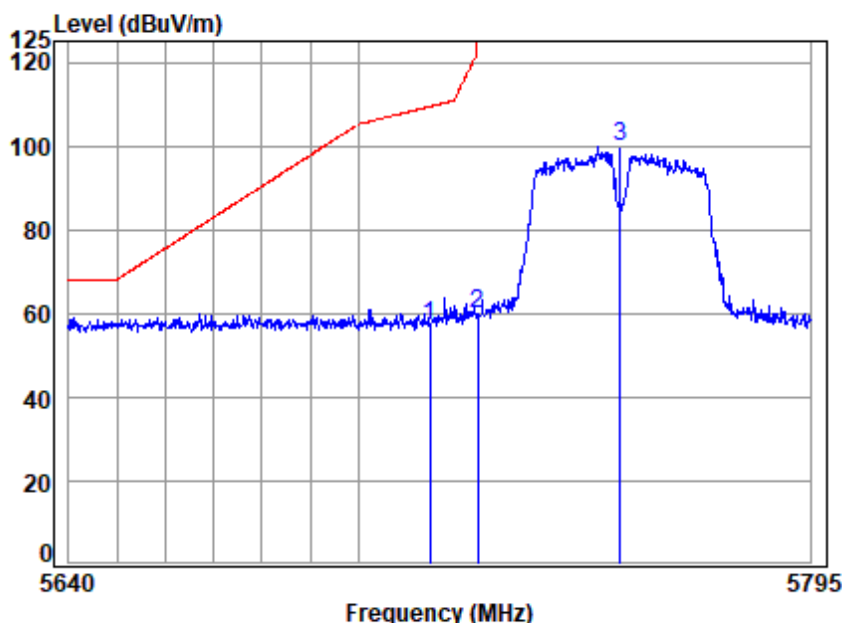
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5825 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.23	34.93	42.35	92.67	93.48	-----	-----	peak
2	5850.000	8.24	34.95	42.33	56.86	57.72	122.20	-64.48	peak
3	5860.000	8.24	34.96	42.33	56.93	57.80	109.40	-51.60	peak

Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5755 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	56.60	57.22	109.40	-52.18	peak
2	5725.000	8.22	34.83	42.41	59.48	60.12	122.20	-62.08	peak
3	5755.000	8.22	34.86	42.39	99.00	99.69	-----	-----	peak



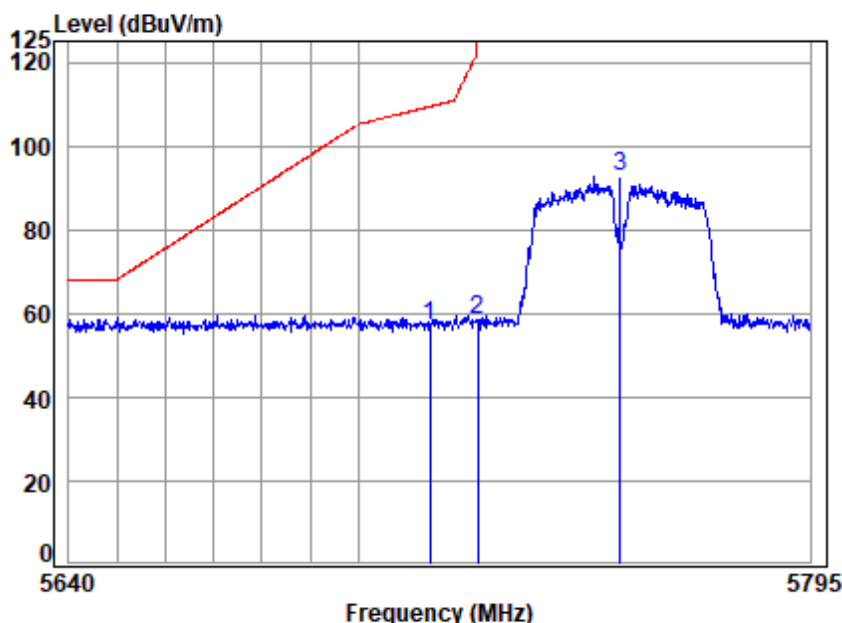
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Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5755 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	56.40	57.02	109.40	-52.38	peak
2	5725.000	8.22	34.83	42.41	57.85	58.49	122.20	-63.71	peak
3	5755.000	8.22	34.86	42.39	92.00	92.69	-----	-----	peak



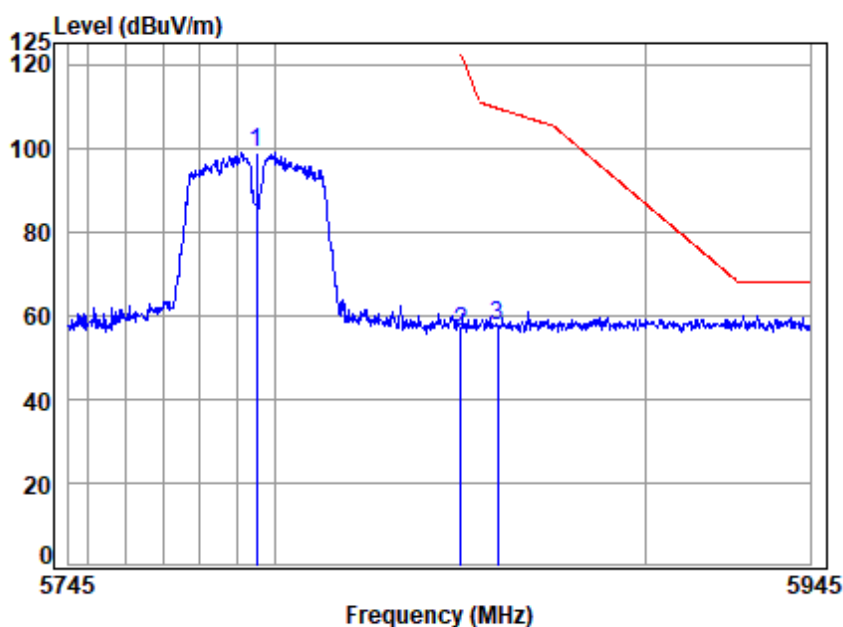
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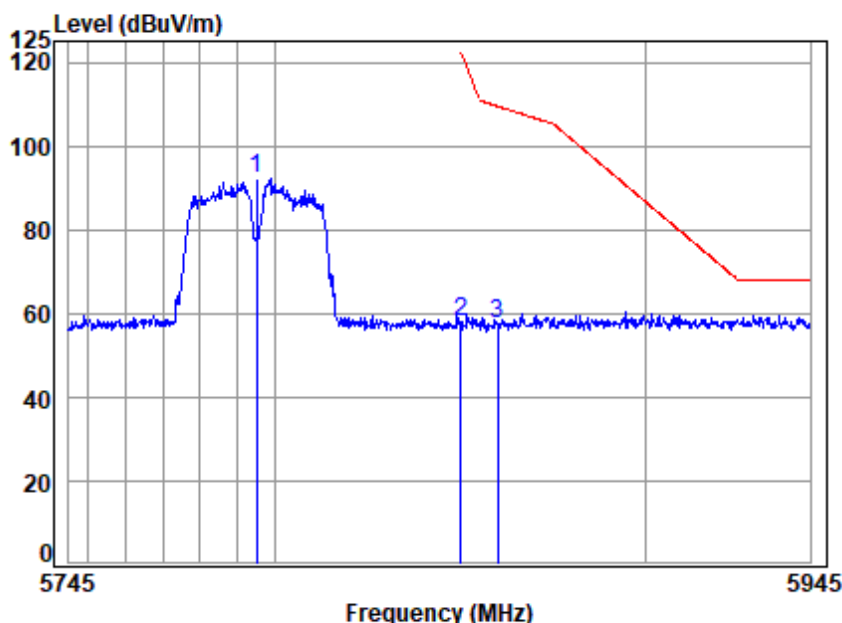
Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5795 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.23	34.90	42.37	98.32	99.08	-----	-----	peak
2	5850.000	8.24	34.95	42.33	55.30	56.16	122.20	-66.04	peak
3	5860.000	8.24	34.96	42.33	56.67	57.54	109.40	-51.86	peak

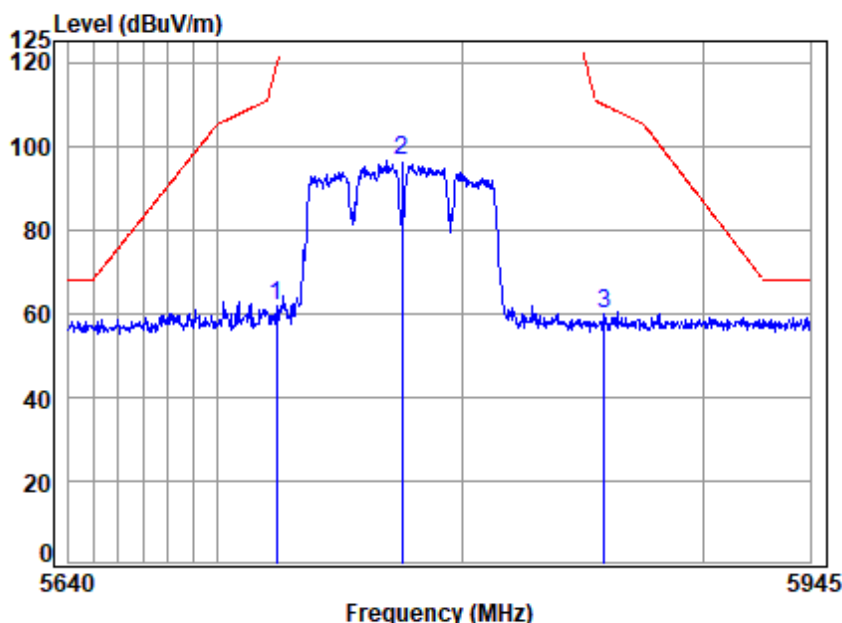
Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5795 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.23	34.90	42.37	91.38	92.14	-----	-----	peak
2	5850.000	8.24	34.95	42.33	57.12	57.98	122.20	-64.22	peak
3	5860.000	8.24	34.96	42.33	56.50	57.37	109.40	-52.03	peak

Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 10640CR
Mode : 5775 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5723.787	8.22	34.83	42.41	61.25	61.89	119.44	-57.55	peak
2	5775.000	8.22	34.88	42.38	95.57	96.29	-----	-----	peak
3	5858.900	8.24	34.96	42.33	59.15	60.02	109.71	-49.69	peak



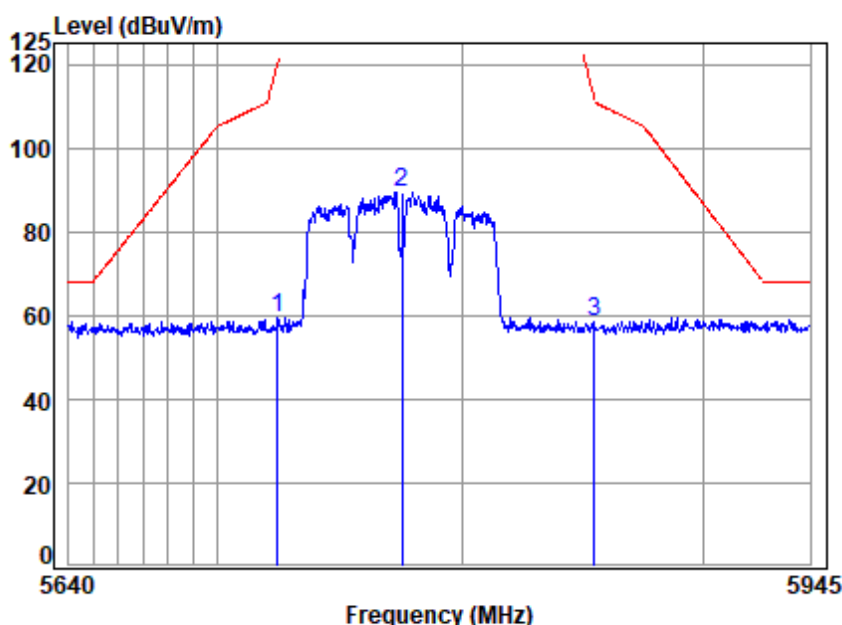
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Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 10640CR
Mode : 5775 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5724.088	8.22	34.83	42.41	58.83	59.47	120.12	-60.65	peak
2	5775.000	8.22	34.88	42.38	88.68	89.40	-----	-----	peak
3	5854.582	8.24	34.96	42.33	57.59	58.46	111.75	-53.29	peak

7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)
Test Method: ANSI C63.10 (2013) Section 6.8

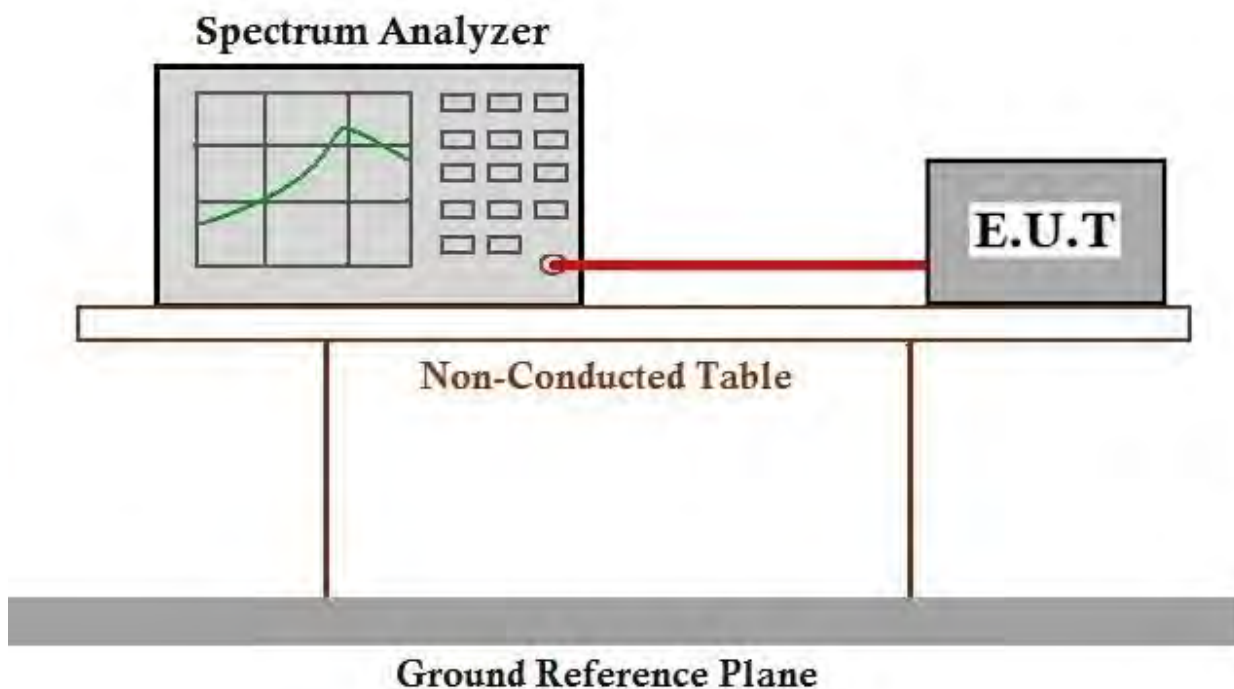
7.10.1 E.U.T. Operation

Operating Environment:
Temperature: 23.2 °C Humidity: 54.9 % RH Atmospheric Pressure: 1015 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	12	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	14	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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.

7.11 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1

Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 54.9 % RH

Atmospheric Pressure: 1015 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	Normal operating_Keep the EUT communication with the companion device.



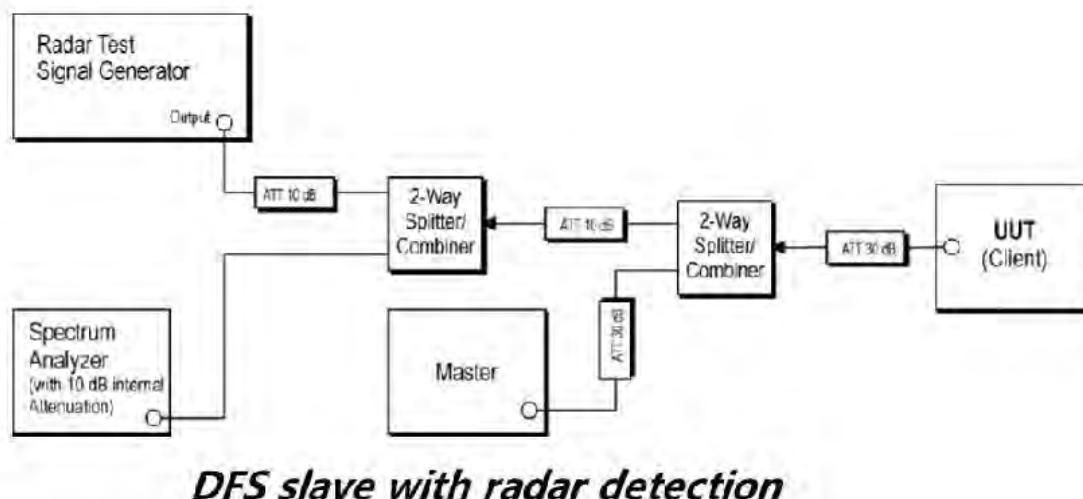
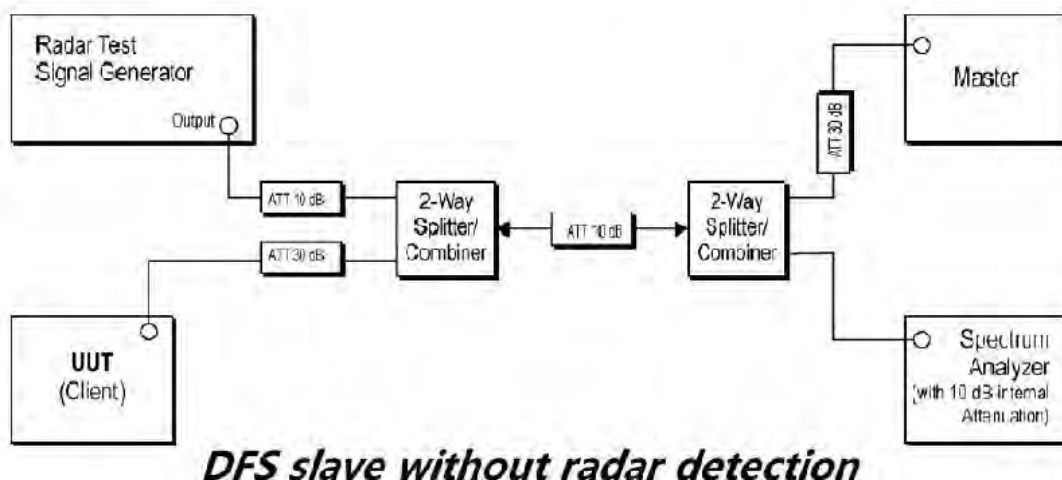
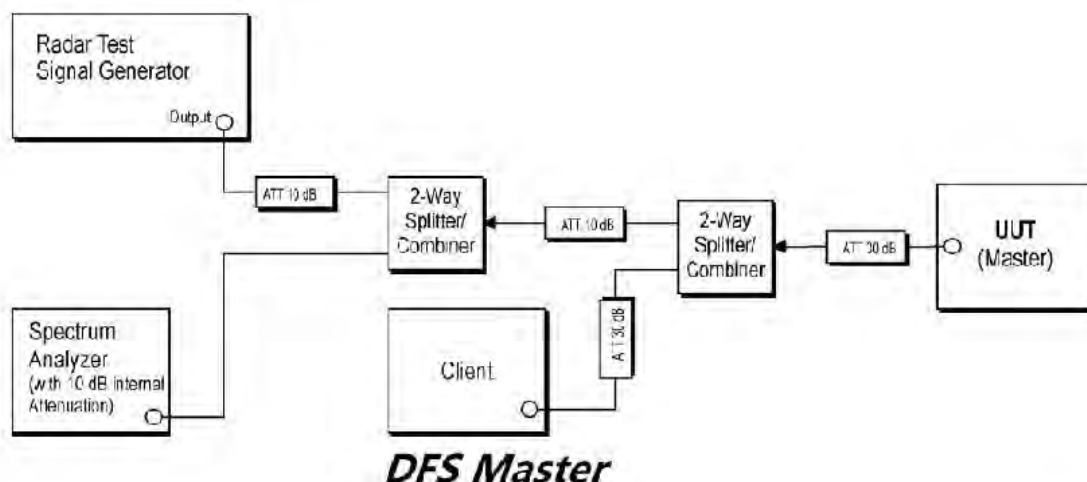
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7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer To Appendix For Details

7.12 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.12.1 E.U.T. Operation

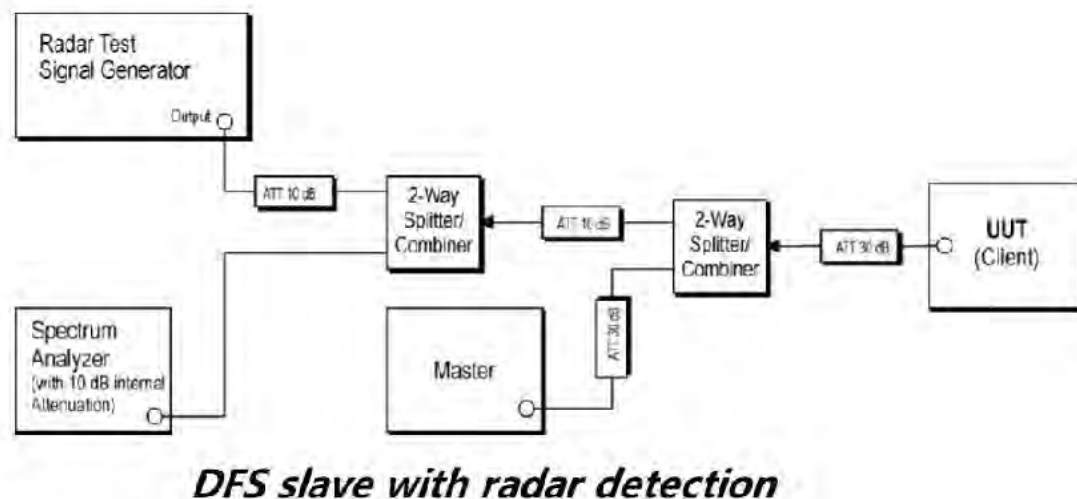
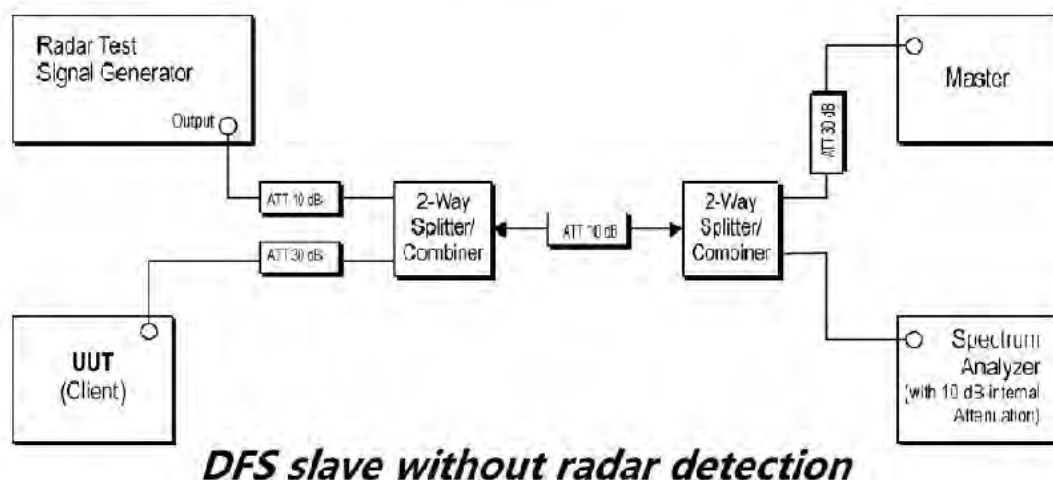
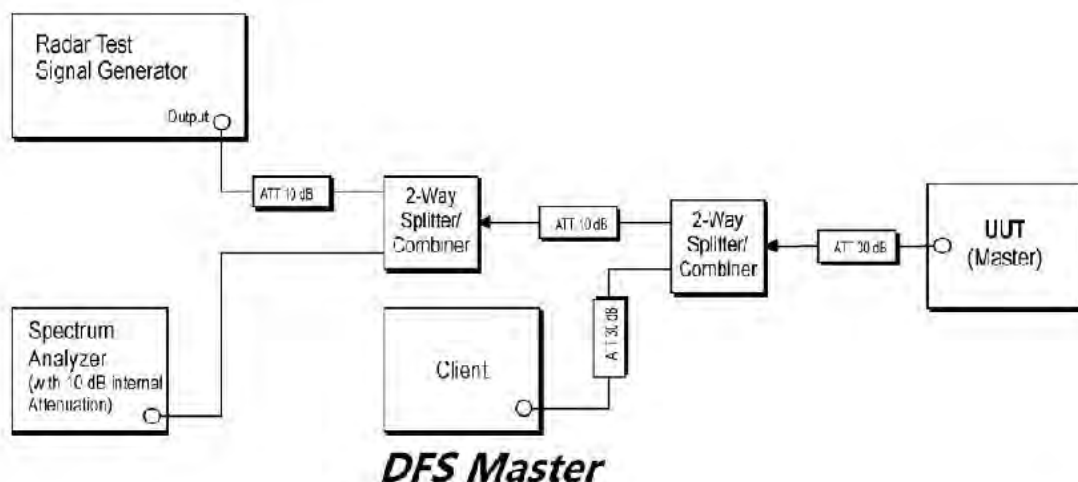
Operating Environment:

Temperature: 23.2 °C Humidity: 54.9 % RH Atmospheric Pressure: 1015 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	Normal operating_Keep the EUT communication with the companion device.

7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer To Appendix For Details

7.13 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1

Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 54.9 % RH

Atmospheric Pressure: 1015 mbar

7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	Normal operating_Keep the EUT communication with the companion device.

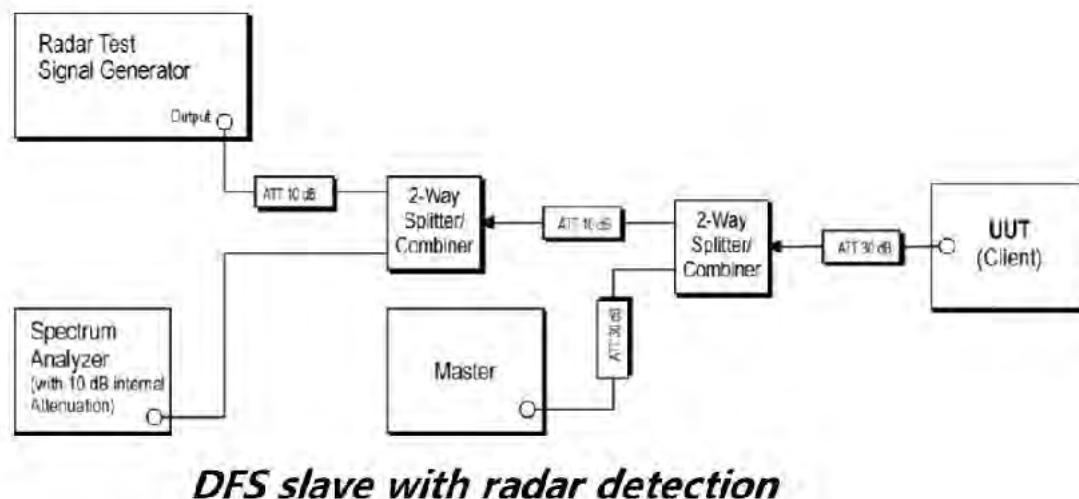
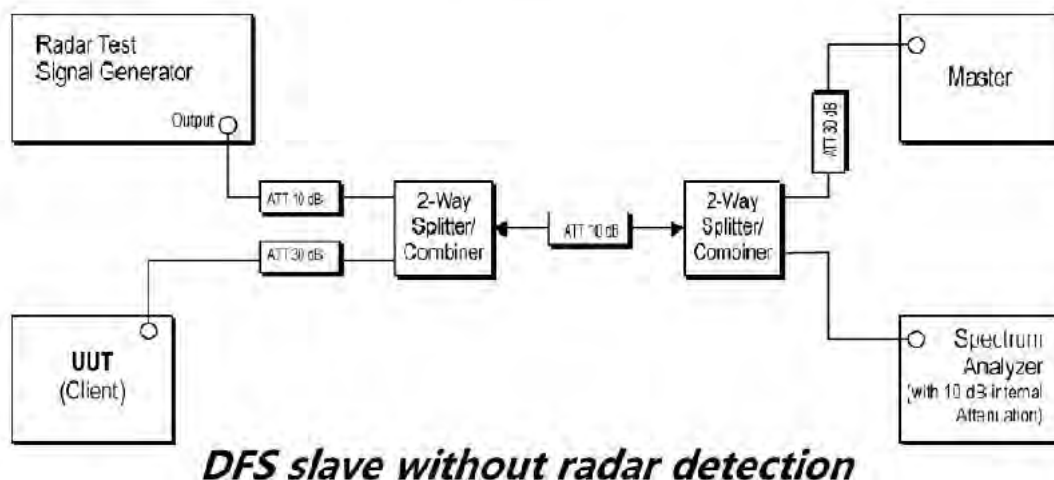
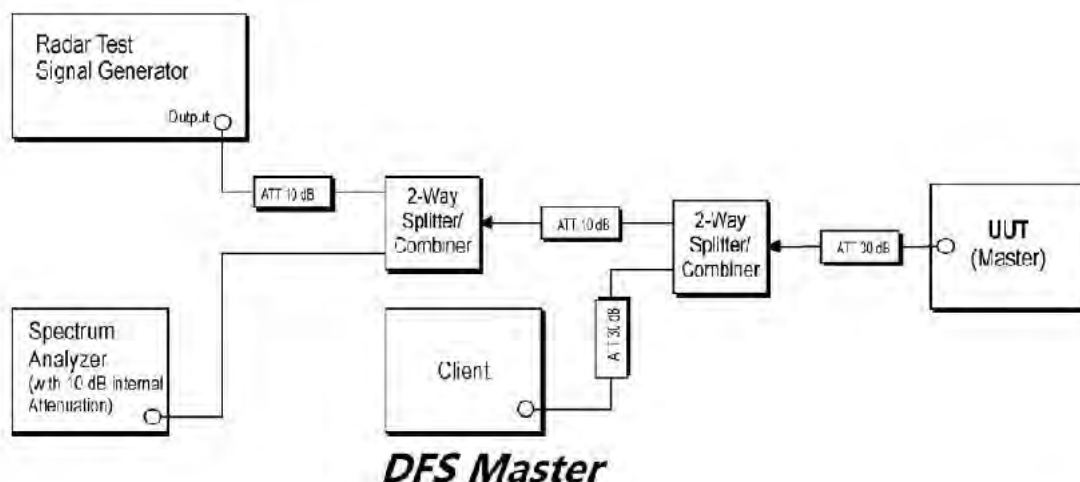


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7.13.3 Test Setup Diagram



7.13.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer To Appendix For Details



8 Test Setup Photo

Please refer to setup photos.

9 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.



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10 Appendix

Appendix for 15.407

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a	5180	SISO	1	1.390	1.436	96.80	0.14
	5200	SISO	1	1.390	1.436	96.80	0.14
	5240	SISO	1	1.390	1.435	96.86	0.14
	5260	SISO	1	1.390	1.435	96.86	0.14
	5300	SISO	1	1.392	1.437	96.87	0.14
	5320	SISO	1	1.391	1.436	96.87	0.14
	5745	SISO	1	1.390	1.436	96.80	0.14
	5785	SISO	1	1.390	1.435	96.86	0.14
	5825	SISO	1	1.390	1.435	96.86	0.14
802.11n(HT20)	5180	SISO	1	1.299	1.345	96.58	0.15
	5200	SISO	1	1.299	1.345	96.58	0.15
	5240	SISO	1	1.299	1.345	96.58	0.15
	5260	SISO	1	1.299	1.346	96.51	0.15
	5300	SISO	1	1.299	1.346	96.51	0.15
	5320	SISO	1	1.299	1.345	96.58	0.15
	5745	SISO	1	1.299	1.345	96.58	0.15
	5785	SISO	1	1.299	1.345	96.58	0.15
	5825	SISO	1	1.299	1.345	96.58	0.15
802.11n(HT40)	5190	SISO	1	0.647	0.691	93.63	0.29
	5230	SISO	1	0.647	0.692	93.50	0.29
	5270	SISO	1	0.647	0.692	93.50	0.29
	5310	SISO	1	0.647	0.692	93.50	0.29
	5755	SISO	1	0.647	0.692	93.50	0.29
	5795	SISO	1	0.648	0.692	93.64	0.29
802.11ac(VHT20)	5180	SISO	1	1.312	1.358	96.61	0.15
	5200	SISO	1	1.311	1.358	96.54	0.15
	5240	SISO	1	1.312	1.358	96.61	0.15
	5260	SISO	1	1.312	1.358	96.61	0.15
	5300	SISO	1	1.312	1.357	96.68	0.15
	5320	SISO	1	1.311	1.358	96.54	0.15
	5745	SISO	1	1.312	1.358	96.61	0.15



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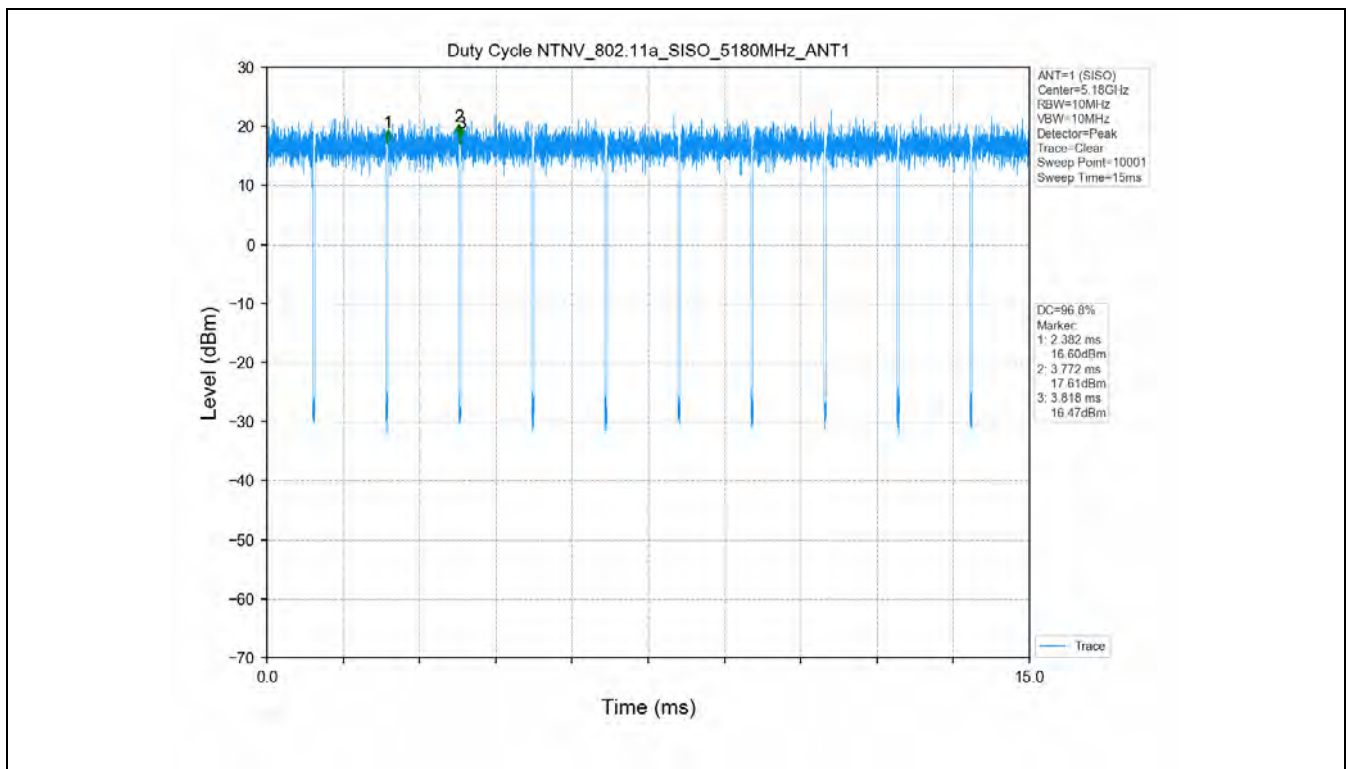
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	5785	SISO	1	1.312	1.357	96.68	0.15
	5825	SISO	1	1.312	1.358	96.61	0.15
802.11ac(VHT40)	5190	SISO	1	0.652	0.697	93.54	0.29
	5230	SISO	1	0.651	0.696	93.53	0.29
	5270	SISO	1	0.652	0.696	93.68	0.28
	5310	SISO	1	0.652	0.697	93.54	0.29
	5755	SISO	1	0.651	0.696	93.53	0.29
	5795	SISO	1	0.651	0.696	93.53	0.29
	5795	SISO	1	0.651	0.696	93.53	0.29
802.11ac(VHT80)	5210	SISO	1	0.324	0.369	87.80	0.57
	5290	SISO	1	0.324	0.369	87.80	0.57
	5775	SISO	1	0.324	0.368	88.04	0.55

1.2 Test Graph



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