

# TEST REPORT

**Application No.:** SZCR2504001578AT  
**Applicant:** WaveGo Tech LLC  
**Address of Applicant:** 16192 Coastal Highway, Lewes, Sussex, Delaware 19958, United States  
**Manufacturer:** WaveGo Tech LLC  
**Address of Manufacturer:** 16192 Coastal Highway, Lewes, Sussex, DE 19958, USA  
**Factory:** WaveGo Tech LLC  
**Address of Factory:** 16192 Coastal Highway, Lewes, Sussex, DE 19958, USA  
**Equipment Under Test (EUT):**  
**EUT Name:** Unmanned Aircraft  
**Model No.:** FCGCDD  
**FCC ID:** 2BPFE-DD001  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2025-04-21  
**Date of Test:** 2025-05-14 to 2025-05-26  
**Date of Issue:** 2025-06-10

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

*Keny Xu*

Keny Xu  
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-06-10		Original

Authorized for issue by:				
		Donjon . Huang		
		Donjon Huang/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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## 2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2013) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2013) Section 12.4.2	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2013) Section 12.4.1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band )		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		ANSI C63.10 (2013) Section 12.5	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Powered by Lithium-Ion Rechargeable Battery. Battery information Model: FCGCDDB Nominal voltage: 7.3V
Operation Frequency:	5.1G SDR 10MHz: 5157MHz-5245MHz(89channel) 20MHz: 5161MHz-5240MHz(80channel) 40MHz: 5170MHz-5230MHz(61channel)  5.8G SDR 10MHz: 5730.5MHz-5844.5MHz(115channel) 20MHz: 5735.5MHz-5839.5MHz(105channel) 40MHz: 5745.5MHz-5829.5MHz(85channel) 60MHz: 5755.5MHz-5819.5MHz(65channel) 80MHz: 5765.5MHz-5809.5MHz(45channel)
Modulation Type:	OFDM
Channel Spacing:	5.1G SDR 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz  5.8G SDR 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz 60MHz: 1MHz 80MHz: 1MHz
Antenna Type:	Dipole
Antenna Gain:	5.1G SDR: ANT0: 1.5dBi, ANT1: 1.5dBi, 5.8G SDR: ANT0: 1.0dBi, ANT1: 1.0dBi,
Cable Loss (for RF conducted test):	5.1G: 1.4dB 5.8G: 1.9dB

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## 4.2 Description of Support Units

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

## 4.3 Measurement Uncertainty

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

### Remark:

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

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



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## 4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.

## 4.5 Test Facility

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

### • A2LA (Certificate No. 3816.01)

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

### • VCCI (Member No. 1937)

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

### • FCC –Designation Number: CN1336

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

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

### • Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None





## 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	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07
Matching Pad	N/A	N/A	SEM021-23	2025-03-19	2026-03-18
Matching Pad	N/A	N/A	SEM021-24	2025-03-19	2026-03-18
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25



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Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05



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RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna are following:

Band	Antenna Gain (dBi)	
	ANT0	ANT1
5.1G SDR	1.5	1.5
5.8G SDR	1	1

Antenna combination (MIMO mode)	Directional Gain (dBi)	
	5.1G SDR	5.8G SDR
ANT0 & ANT1	4.51	4.01

Antenna location: Refer to internal photo.





## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

### 6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

SDR 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 & Subpart E 15.407 b(9)

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

Limit:

Frequency of emission(MHz)	Conducted limit(dB $\mu$ 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: 22.5 °C

Humidity: 44.5 % RH

Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Pre-scan	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Pre-scan	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Pre-scan	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and



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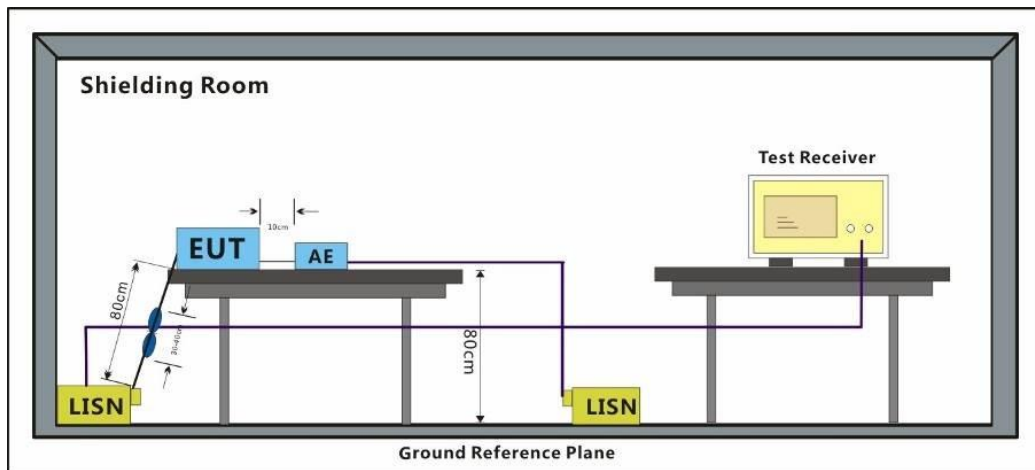
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		charged by adapter
Pre-scan	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

### 7.1.3 Test Setup Diagram



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## 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 1: Level=Read Level+ Cable Loss+ LISN Factor

Remark 2: Pre-test AC 120V/50-60Hz&AC 240V/50-60Hz then choose the AC 120/60Hz as worst case.





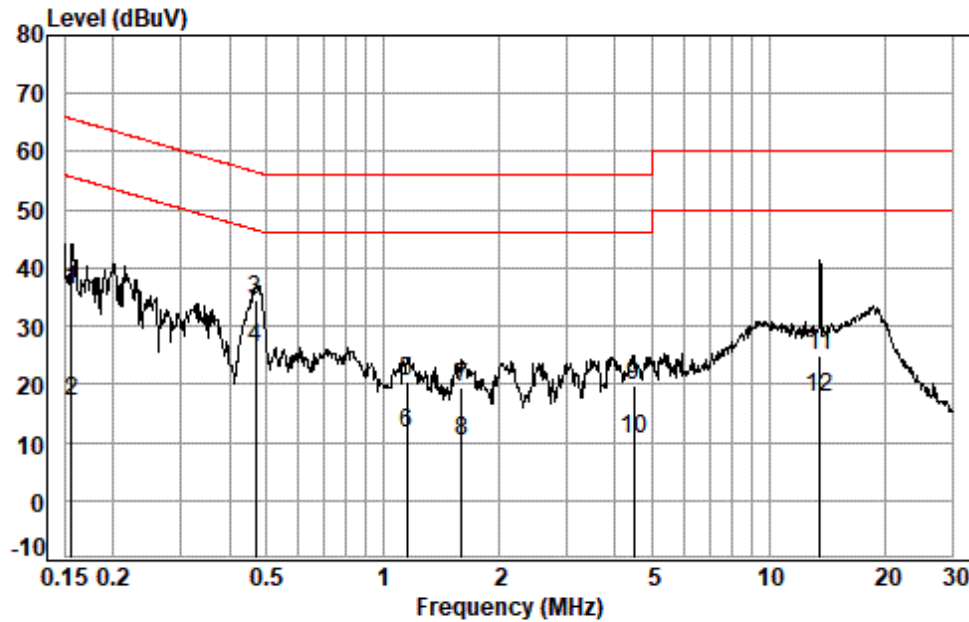
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250400157803

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Test Mode: 54; Line: Live line



Site : Shielding Room  
Condition: Line  
Job No. : 01578AT

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1565	0.06	10.18	26.11	36.35	65.65	-29.30	QP
2	0.1565	0.06	10.18	6.80	17.04	55.65	-38.61	Average
3 *	0.4686	0.08	9.58	24.80	34.46	56.54	-22.08	QP
4 *	0.4686	0.08	9.58	16.63	26.29	46.54	-20.25	Average
5	1.1534	0.09	9.58	10.66	20.33	56.00	-35.67	QP
6	1.1534	0.09	9.58	1.90	11.57	46.00	-34.43	Average
7	1.6020	0.10	9.58	9.75	19.43	56.00	-36.57	QP
8	1.6020	0.10	9.58	0.53	10.21	46.00	-35.79	Average
9	4.4777	0.12	9.66	9.83	19.61	56.00	-36.39	QP
10	4.4777	0.12	9.66	0.89	10.67	46.00	-35.33	Average
11	13.5509	0.24	9.86	14.92	25.02	60.00	-34.98	QP
12	13.5509	0.24	9.86	7.77	17.87	50.00	-32.13	Average



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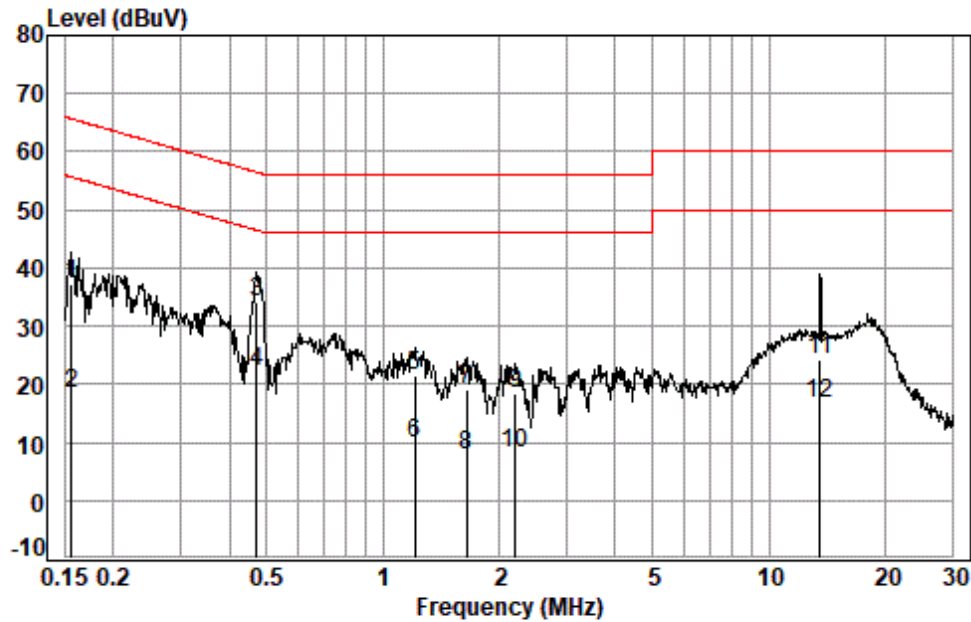
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250400157803

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Test Mode: 54; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 01578AT

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.06	10.14	26.92	37.12	65.69	-28.57	QP
2	0.1557	0.06	10.14	8.24	18.44	55.69	-37.25	Average
3 *	0.4711	0.08	9.72	24.41	34.21	56.49	-22.28	QP
4 *	0.4711	0.08	9.72	12.30	22.10	46.49	-24.39	Average
5	1.2098	0.09	9.54	11.69	21.32	56.00	-34.68	QP
6	1.2098	0.09	9.54	0.37	10.00	46.00	-36.00	Average
7	1.6450	0.10	9.55	9.45	19.10	56.00	-36.90	QP
8	1.6450	0.10	9.55	-1.90	7.75	46.00	-38.25	Average
9	2.2015	0.10	9.55	8.70	18.35	56.00	-37.65	QP
10	2.2015	0.10	9.55	-1.54	8.11	46.00	-37.89	Average
11	13.5509	0.24	9.78	14.26	24.28	60.00	-35.72	QP
12	13.5509	0.24	9.78	6.59	16.61	50.00	-33.39	Average



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### 7.2 Maximum Conducted output power

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

Test Method: ANSI C63.10 (2013) Section 12.3

Limit:

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

#### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



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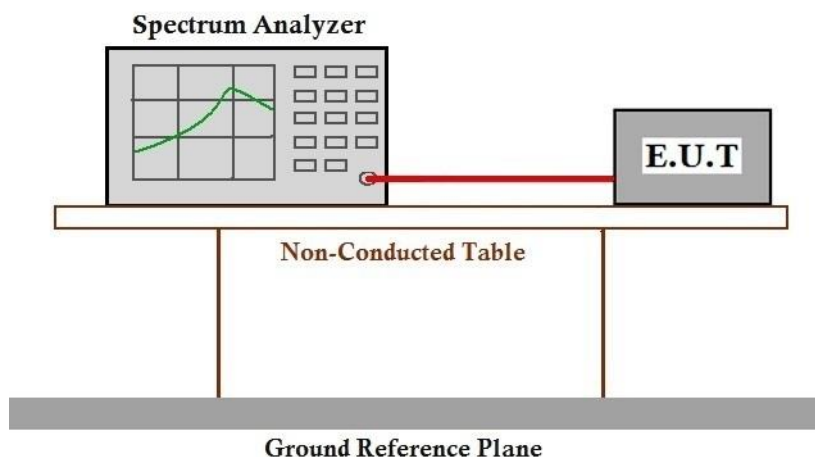
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Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



## 7.3 Radiated Emissions (Below 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

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

### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 43.8 % RH

Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Pre-scan	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Pre-scan	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode



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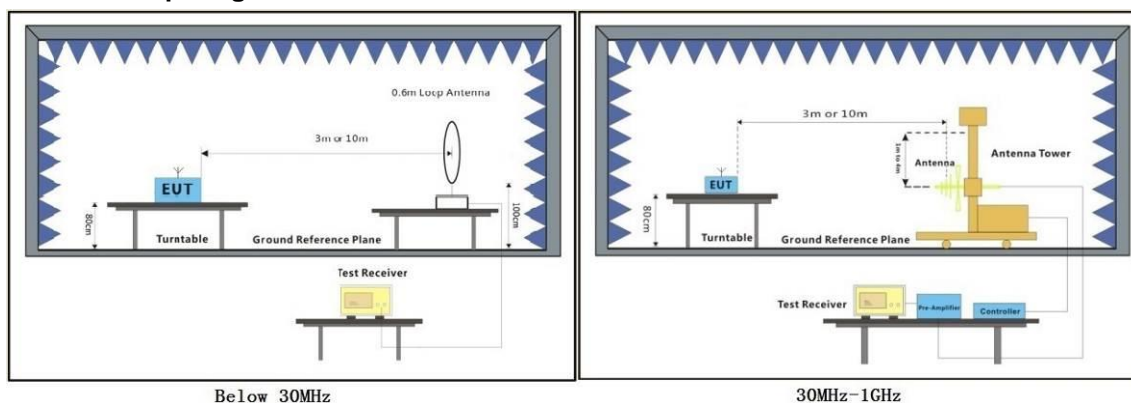
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Final test	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

### 7.3.3 Test Setup Diagram



## 7.3.4 Measurement Procedure and Data

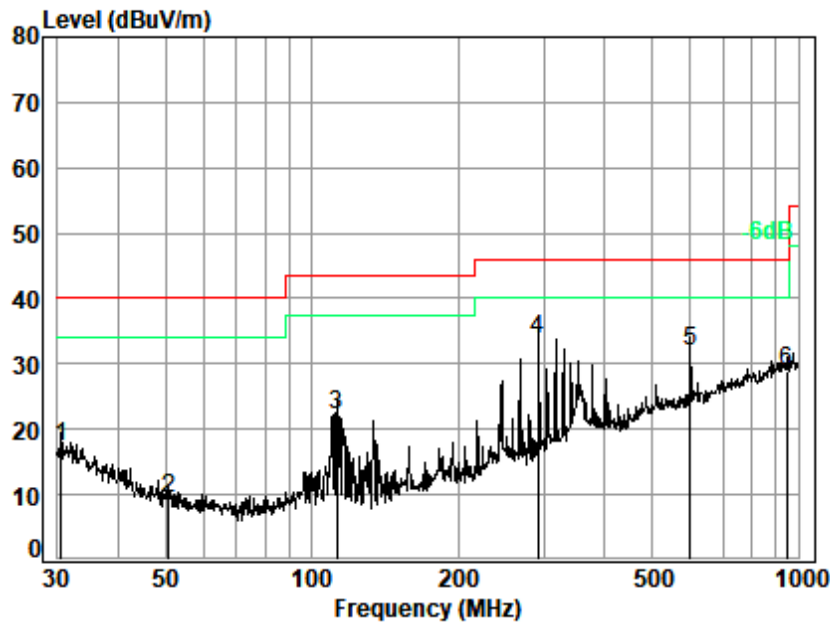
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna,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

Remark:

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



Test Mode: 44; Polarity: Horizontal



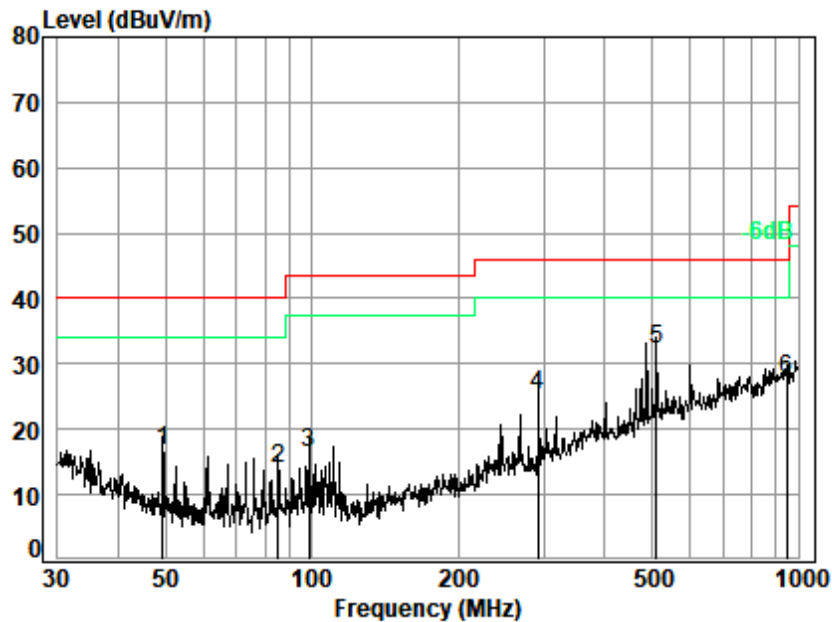
Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 01578AT

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.531	20.95	0.68	27.79	23.51	17.35	40.00	-22.65 QP
2	50.764	12.64	0.87	27.73	23.62	9.40	40.00	-30.60 QP
3	112.524	11.65	1.31	27.54	36.78	22.20	43.50	-21.30 QP
4 q	292.058	17.20	2.17	26.78	41.11	33.70	46.00	-12.30 QP
5	599.321	24.42	3.24	27.97	32.28	31.97	46.00	-14.03 QP
6	945.440	28.26	4.24	26.44	22.97	29.03	46.00	-16.97 QP





Test Mode: 44; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01578AT

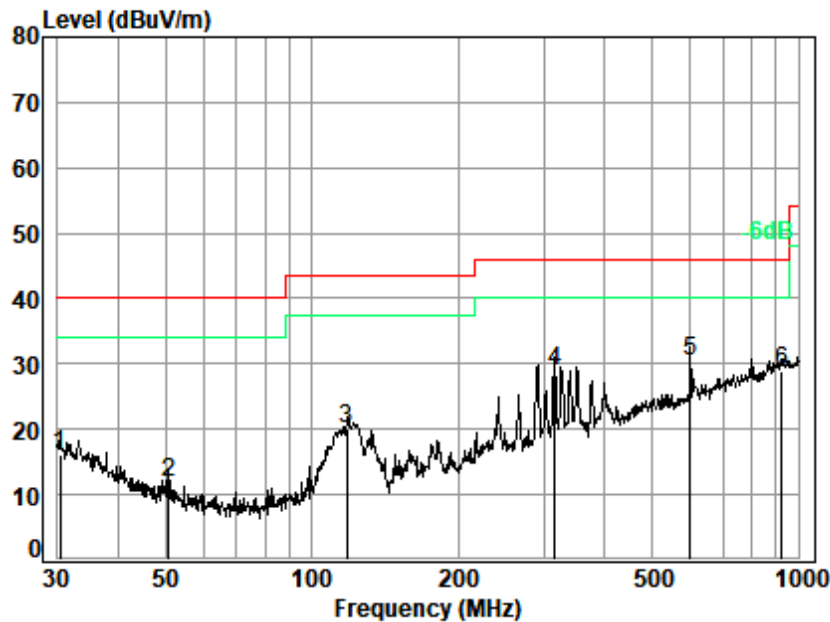
	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	49.359	12.91	0.86	27.74	30.83	16.86	40.00	-23.14 QP
2	85.298	11.07	1.13	27.63	29.45	14.02	40.00	-25.98 QP
3	98.833	12.24	1.21	27.59	30.68	16.54	43.50	-26.96 QP
4	292.058	17.20	2.17	26.78	32.75	25.34	46.00	-20.66 QP
5 q	511.835	23.22	2.96	27.61	33.54	32.11	46.00	-13.89 QP
6	948.761	28.23	4.25	26.42	21.70	27.76	46.00	-18.24 QP



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Test Mode: 54; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 01578AT

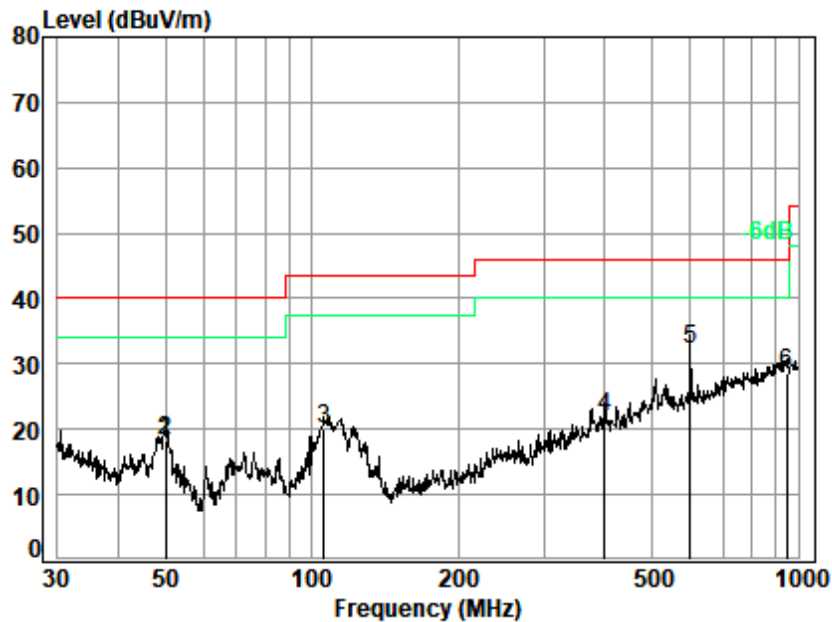
	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level dBuV	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB	
1	30.317	21.05	0.67	27.79	22.20	16.13	40.00	-23.87 QP
2	50.764	12.64	0.87	27.73	26.09	11.87	40.00	-28.13 QP
3	118.186	11.18	1.35	27.51	34.97	19.99	43.50	-23.51 QP
4	315.481	18.41	2.27	26.81	35.07	28.94	46.00	-17.06 QP
5 q	599.321	24.42	3.24	27.97	30.85	30.54	46.00	-15.46 QP
6	925.756	28.18	4.19	26.58	23.05	28.84	46.00	-17.16 QP



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Test Mode: 54; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01578AT

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	50.057	12.75	0.86	27.73	32.29	18.17	40.00	-21.83 QP
2	50.057	12.75	0.86	27.73	32.29	18.17	40.00	-21.83 QP
3	106.013	12.18	1.27	27.56	34.15	20.04	43.50	-23.46 QP
4	400.432	20.60	2.58	27.16	25.98	22.00	46.00	-24.00 QP
5 q	599.321	24.42	3.24	27.97	32.70	32.39	46.00	-13.61 QP
6	945.440	28.26	4.24	26.44	22.56	28.62	46.00	-17.38 QP



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### 7.4 Radiated Emissions (Above 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

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

\*(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.

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

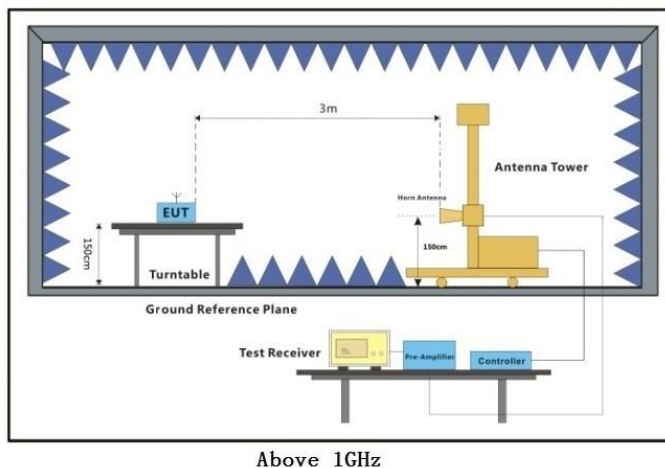




### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Pre-scan	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Pre-scan	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

### 7.4.3 Test Setup Diagram



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## 7.4.4 Measurement Procedure and Data

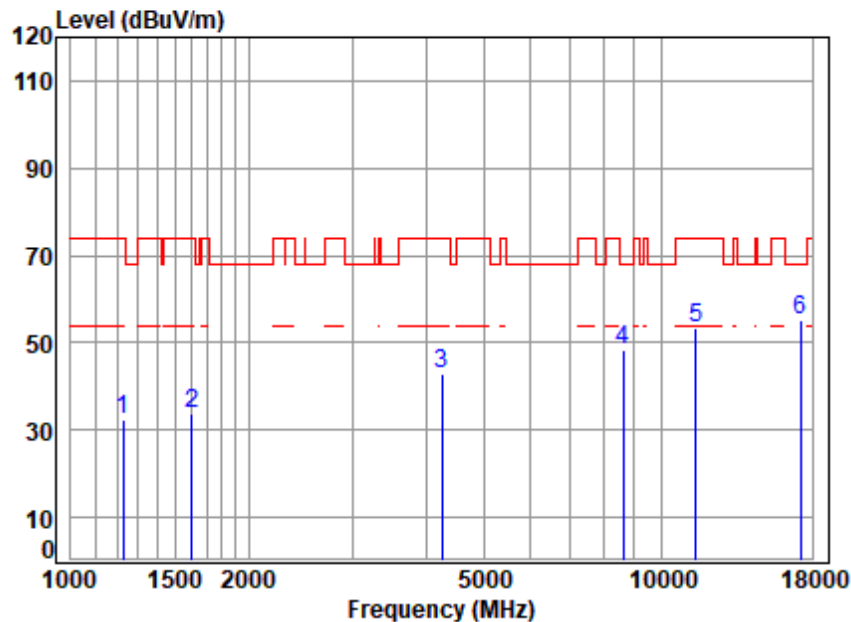
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



Test Mode: 44; Polarity: Horizontal; Hob Position Left



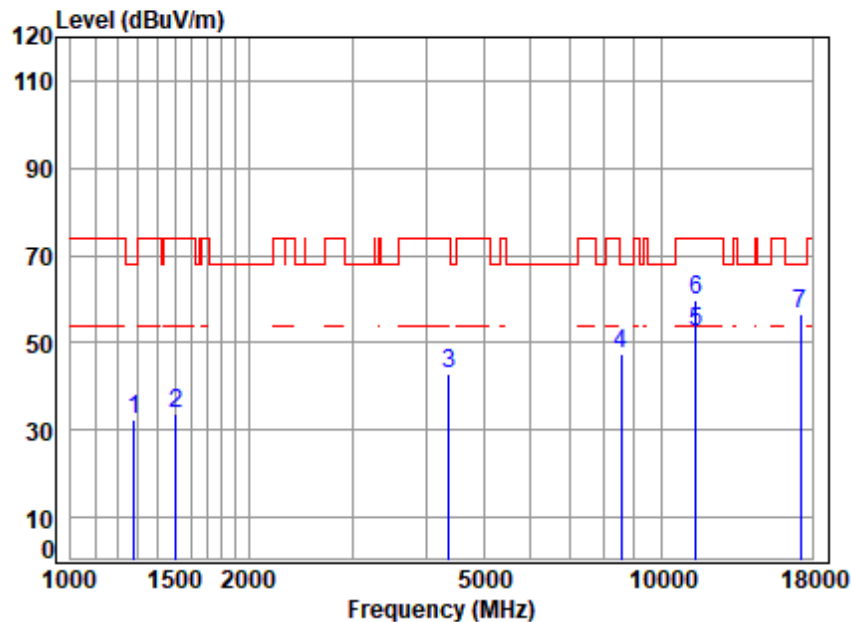
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5730.5 RSE TX  
Note : 5.8G SRD 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	3.72	24.79	54.69	58.73	32.55	74.00	-41.45	peak
2	1601.804	4.19	26.78	54.80	57.82	33.99	74.00	-40.01	peak
3	4242.641	6.95	33.80	54.27	56.58	43.06	74.00	-30.94	peak
4	8613.468	9.62	36.90	53.41	55.35	48.46	68.20	-19.74	peak
5	11461.000	11.93	37.76	53.09	56.91	53.51	74.00	-20.49	peak
6	17191.500	14.54	43.01	52.80	50.57	55.32	68.20	-12.88	peak





Test Mode: 44; Polarity: Vertical; Hob Position Left



Site : chamber

Condition: 3m VERTICAL

Job No : 01578AT

Mode : 5730.5 RSE TX

Note : 5.8G SRD 10M

		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	3.78	24.93	54.71	58.32	32.32	68.20	-35.88	peak
2	1507.470	4.05	26.83	54.78	57.70	33.80	74.00	-40.20	peak
3	4367.058	7.10	34.54	54.26	55.70	43.08	74.00	-30.92	peak
4	8539.102	9.56	36.78	53.38	54.63	47.59	68.20	-20.61	peak
5	11461.000	11.93	37.76	53.09	55.88	52.48	54.00	-1.52	Average
6	11461.000	11.93	37.76	53.09	63.02	59.62	74.00	-14.38	peak
7	17191.500	14.54	43.01	52.80	51.71	56.46	68.20	-11.74	peak

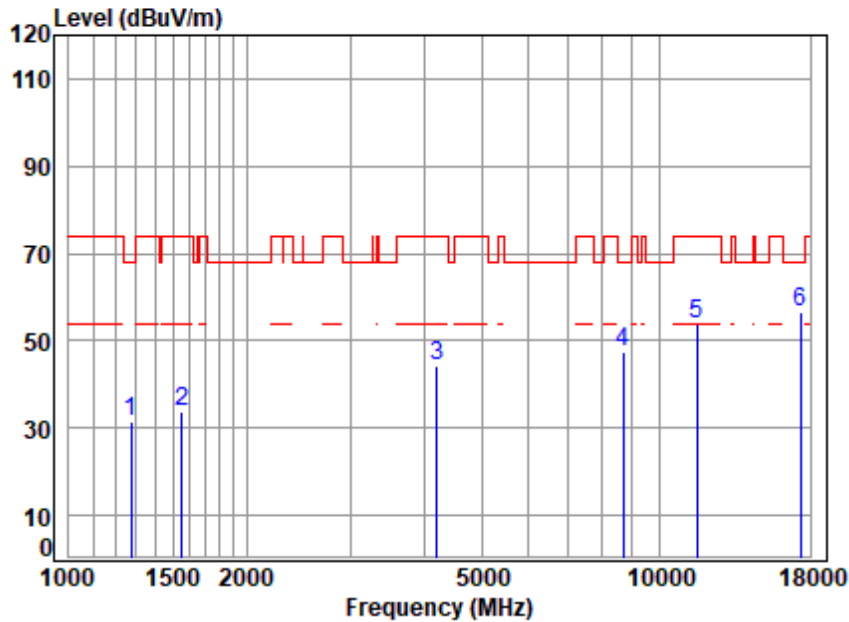


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Test Mode: 44; Polarity: Horizontal; Hob Position Middle

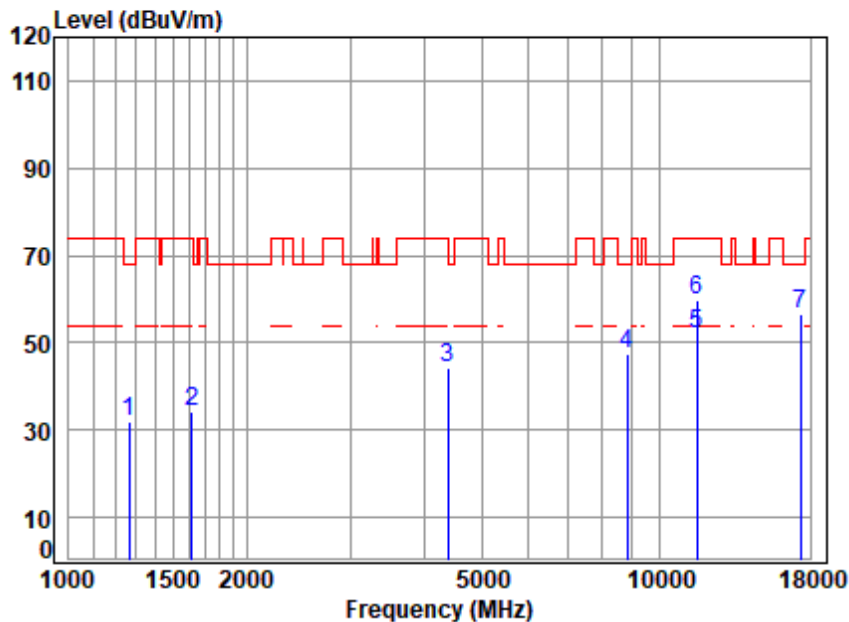


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5787.5 RSE TX  
Note : 5.8G SRD 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	3.78	24.95	54.71	57.38	31.40	68.20	-36.80	peak
2	1556.169	4.12	26.98	54.79	57.51	33.82	74.00	-40.18	peak
3	4193.872	6.89	33.80	54.28	57.68	44.09	74.00	-29.91	peak
4	8688.480	9.68	36.90	53.45	54.37	47.50	68.20	-20.70	peak
5	11575.000	11.95	37.72	53.12	57.42	53.97	74.00	-20.03	peak
6	17362.500	14.73	43.29	52.72	51.32	56.62	68.20	-11.58	peak



Test Mode: 44; Polarity: Vertical; Hob Position Middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01578AT

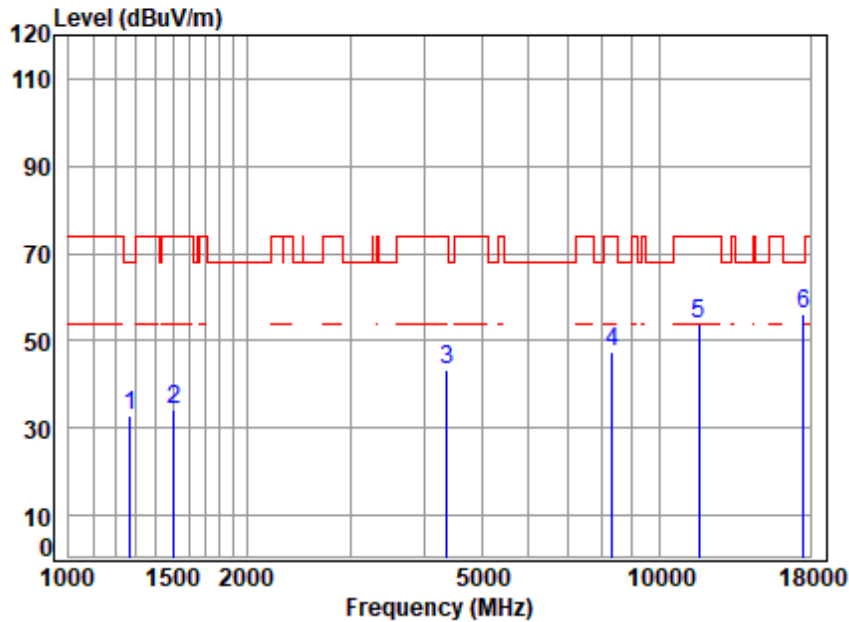
Mode : 5787.5 RSE TX

Note : 5.8G SRD 10M

		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	1267.454	3.77	25.00	54.70	58.06	32.13	68.20	-36.07	peak
2	1615.754	4.21	26.64	54.81	58.15	34.19	74.00	-39.81	peak
3	4392.376	7.13	34.74	54.26	56.52	44.13	74.00	-29.87	peak
4	8814.957	9.78	37.13	53.51	54.14	47.54	68.20	-20.66	peak
5	q11575.000	11.95	37.72	53.12	55.68	52.23	54.00	-1.77	Average
6	11575.000	11.95	37.72	53.12	63.41	59.96	74.00	-14.04	peak
7	p17362.500	14.73	43.29	52.72	51.23	56.53	68.20	-11.67	peak



Test Mode: 44; Polarity: Horizontal; Modulation:802.11be(26 RUMax)

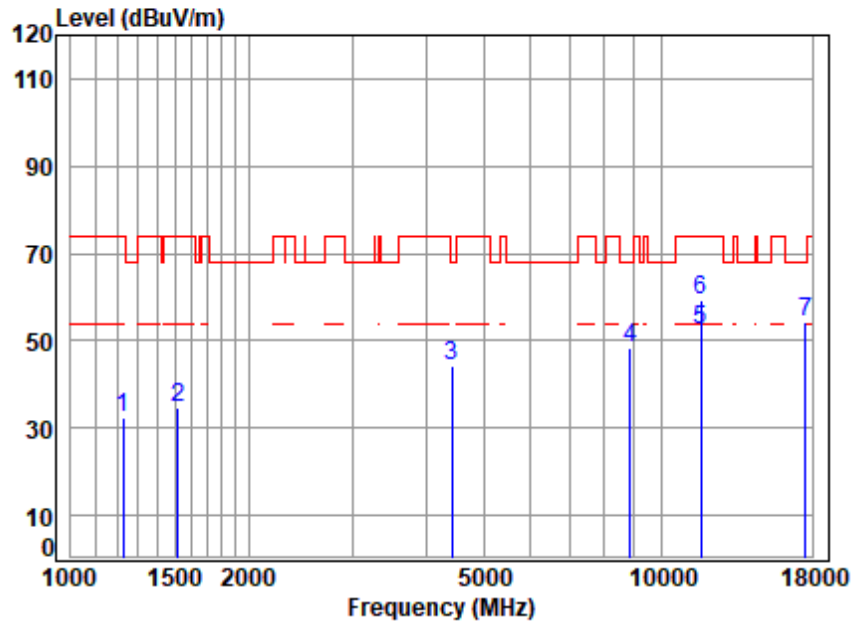


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5844.5 RSE TX  
Note : 5.8G SRD 10M

		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	1271.123	3.77	24.97	54.70	58.82	32.86	68.20	-35.34	peak
2	1507.470	4.05	26.83	54.78	58.12	34.22	74.00	-39.78	peak
3	4367.058	7.10	34.54	54.26	55.97	43.35	74.00	-30.65	peak
4	8319.836	9.35	36.70	53.27	54.78	47.56	74.00	-26.44	peak
5	11689.000	11.95	37.88	53.14	57.22	53.91	74.00	-20.09	peak
6	p17533.500	14.93	43.47	52.63	50.38	56.15	68.20	-12.05	peak



Test Mode: 44; Polarity: Vertical; Modulation:802.11be(26 RUMax)



Site : chamber

Condition: 3m VERTICAL

Job No : 01578AT

Mode : 5844.5 RSE TX

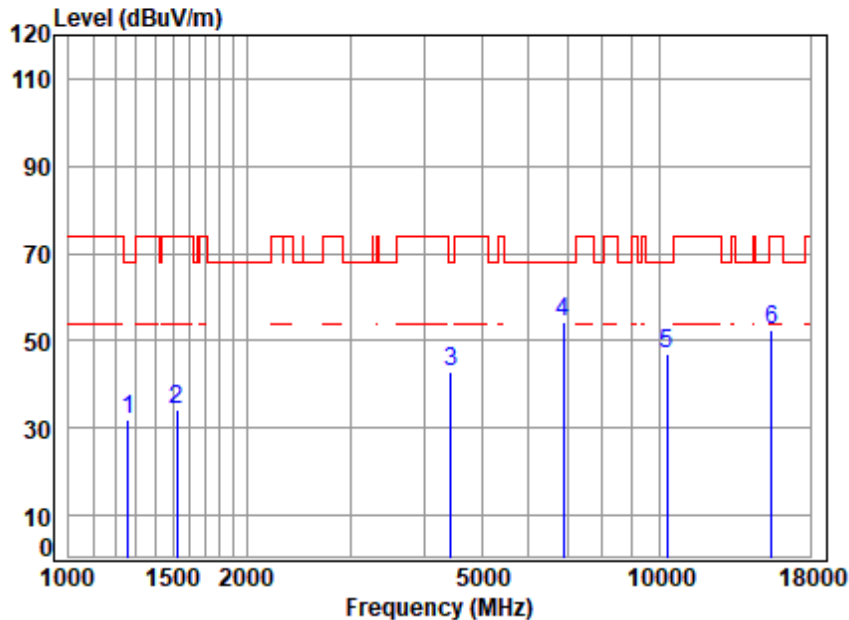
Note : 5.8G SRD 10M

		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	1227.791	3.72	24.79	54.69	58.41	32.23	74.00	-41.77	peak
2	1516.210	4.06	26.86	54.78	58.47	34.61	74.00	-39.39	peak
3	4417.841	7.16	34.59	54.26	56.78	44.27	68.20	-23.93	peak
4	8840.473	9.80	37.18	53.52	55.02	48.48	68.20	-19.72	peak
5	q11689.000	11.95	37.88	53.14	55.66	52.35	54.00	-1.65	Average
6	11689.000	11.95	37.88	53.14	62.61	59.30	74.00	-14.70	peak
7	p17533.500	14.93	43.47	52.63	48.63	54.40	68.20	-13.80	peak





Test Mode: 54; Polarity: Horizontal; Hob Position Left

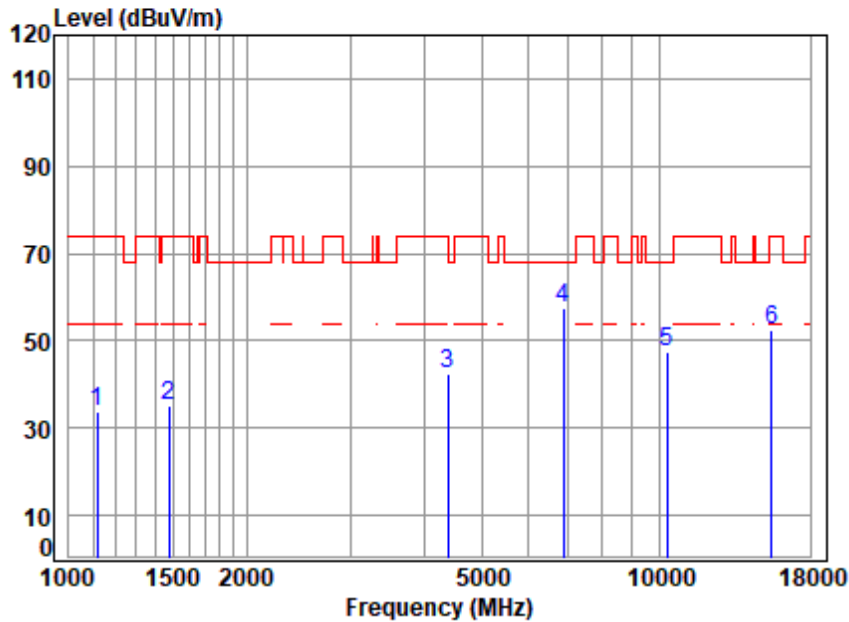


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5157 RSE TX  
Note : 5.1G SRD 10M

		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	1260.149	3.76	25.04	54.70	57.62	31.72	68.20	-36.48	peak
2	1525.000	4.08	26.90	54.78	58.13	34.33	74.00	-39.67	peak
3	4443.453	7.19	34.28	54.25	55.80	43.02	68.20	-25.18	peak
4 p	6874.906	8.83	35.55	53.19	63.06	54.25	68.20	-13.95	Peak
5	10314.000	11.06	37.10	53.14	52.04	47.06	68.20	-21.14	peak
6	15471.000	13.76	41.07	52.22	49.86	52.47	74.00	-21.53	peak



Test Mode: 54; Polarity: Vertical; Hob Position Left

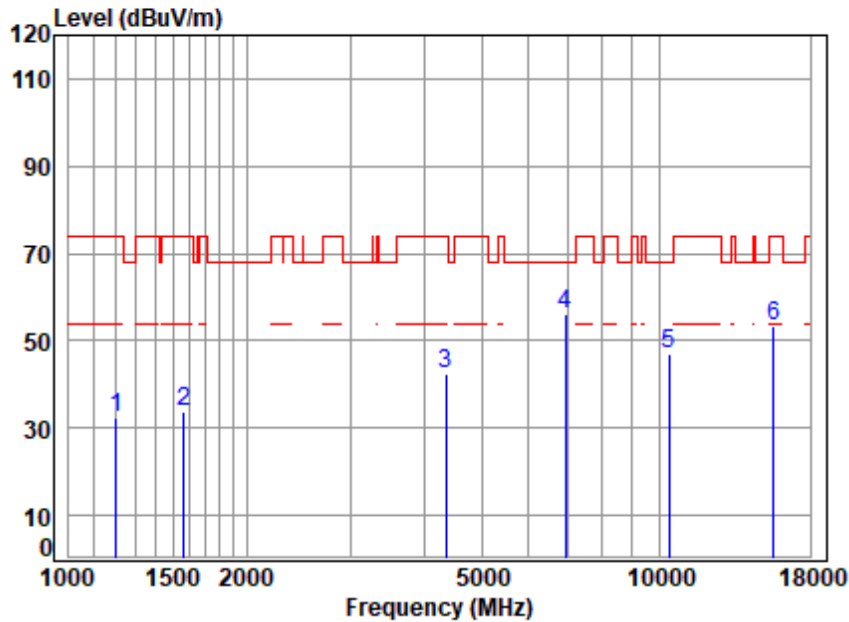


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5157 RSE TX  
Note : 5.1G SRD 10M

		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	1119.323	3.57	23.78	54.65	61.04	33.74	74.00	-40.26	peak
2	1477.276	4.02	26.16	54.77	59.56	34.97	74.00	-39.03	peak
3	4379.699	7.11	34.64	54.26	54.98	42.47	74.00	-31.53	peak
4 p	6874.906	8.83	35.55	53.19	66.50	57.69	68.20	-10.51	Peak
5	10314.000	11.06	37.10	53.14	52.26	47.28	68.20	-20.92	peak
6	15471.000	13.76	41.07	52.22	49.96	52.57	74.00	-21.43	peak



Test Mode: 54; Polarity: Horizontal; Hob Position Middle

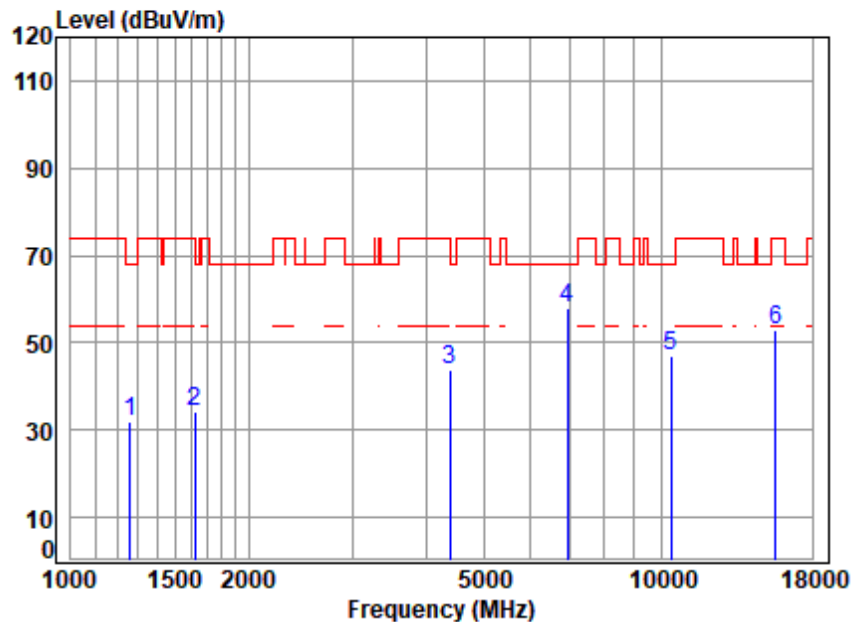


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01578AT  
 Mode : 5200 RSE TX  
 Note : 5.1G SRD 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	3.69	24.44	54.68	58.87	32.32	74.00	-41.68	peak
2	1565.191	4.14	26.94	54.79	57.46	33.75	74.00	-40.25	peak
3	4354.454	7.08	34.44	54.26	55.32	42.58	74.00	-31.42	peak
4 p	6934.778	8.81	35.74	53.19	64.72	56.08	68.20	-12.12	Peak
5	10400.000	11.20	37.10	53.12	51.69	46.87	68.20	-21.33	peak
6	15600.000	13.86	41.10	52.11	50.76	53.61	74.00	-20.39	peak



Test Mode: 54; Polarity: Vertical; Hob Position Middle



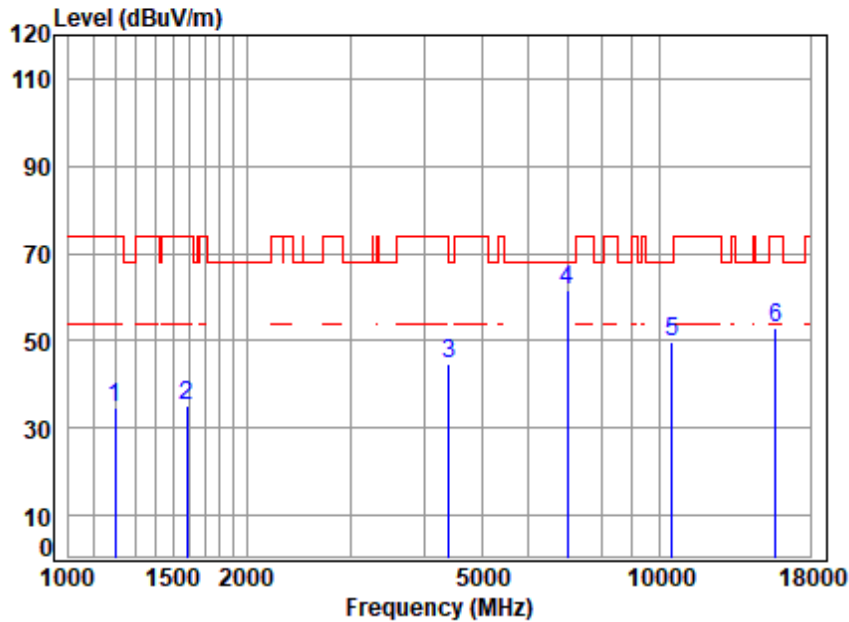
Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5200 RSE TX  
Note : 5.1G SRD 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.76	25.04	54.70	57.90	32.00	68.20	-36.20	peak
2	1625.121	4.22	26.55	54.81	58.26	34.22	74.00	-39.78	peak
3	4392.376	7.13	34.74	54.26	56.18	43.79	74.00	-30.21	peak
4 p	6934.778	8.81	35.74	53.19	66.63	57.99	68.20	-10.21	Peak
5	10400.000	11.20	37.10	53.12	51.63	46.81	68.20	-21.39	peak
6	15600.000	13.86	41.10	52.11	50.28	53.13	74.00	-20.87	peak





Test Mode: 54; Polarity: Horizontal; Modulation:802.11be(26 RUMax)

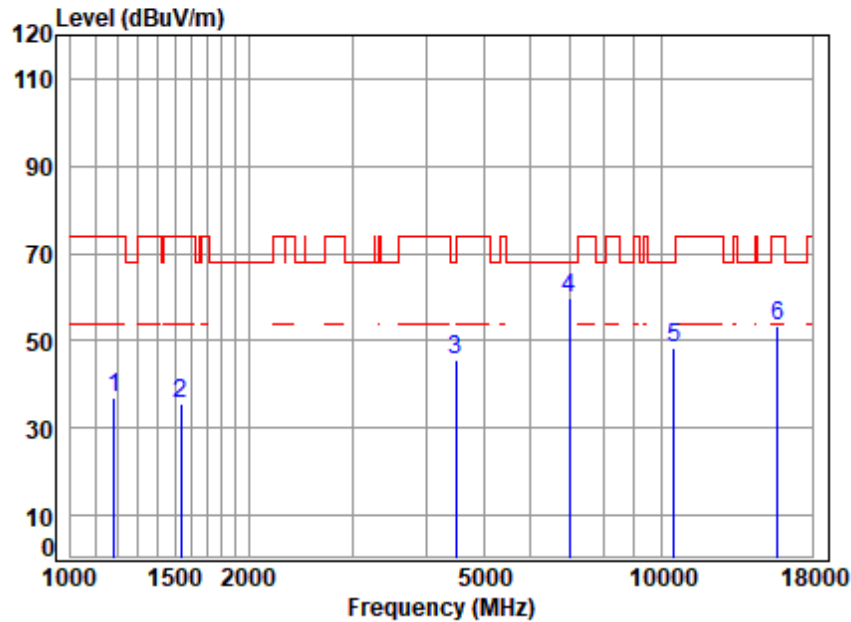


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01578AT  
 Mode : 5245 RSE TX  
 Note : 5.1G SRD 10M

	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	3.68	24.40	54.68	61.45	34.85	74.00	-39.15	peak
2	1587.975	4.17	26.85	54.80	59.05	35.27	74.00	-38.73	peak
3	4405.090	7.14	34.74	54.26	57.00	44.62	68.20	-23.58	peak
4	6995.172	8.79	35.71	53.20	70.22	61.52	68.20	-6.68	Peak
5	10490.000	11.34	37.28	53.10	54.33	49.85	68.20	-18.35	peak
6	15735.000	14.03	41.24	52.01	49.77	53.03	74.00	-20.97	peak



Test Mode: 54; Polarity: Vertical; Modulation: 802.11b(26 RUMax)



Site : chamber

Condition: 3m VERTICAL

Job No : 01578AT

Mode : 5245 RSE TX

Note : 5.1G SRD 10M

		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	1182.513	3.66	24.23	54.67	63.73	36.95	74.00	-37.05	peak
2	1533.841	4.09	26.94	54.79	59.13	35.37	74.00	-38.63	peak
3	4482.150	7.23	33.81	54.25	58.68	45.47	68.20	-22.73	peak
4 p	6995.172	8.79	35.71	53.20	68.57	59.87	68.20	-8.33	Peak
5	10490.000	11.34	37.28	53.10	53.06	48.58	68.20	-19.62	peak
6	15735.000	14.03	41.24	52.01	50.06	53.32	74.00	-20.68	peak



## 7.5 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

\*(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.

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar



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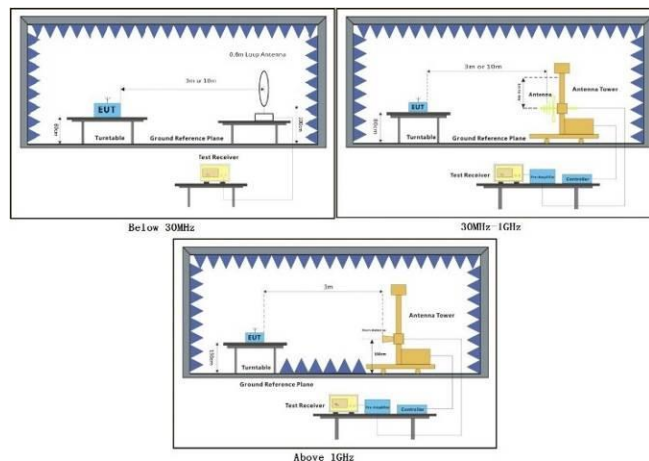
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Shenzhen Branch (SZEMC) Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

### 7.5.3 Test Setup Diagram





## 7.5.4 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.

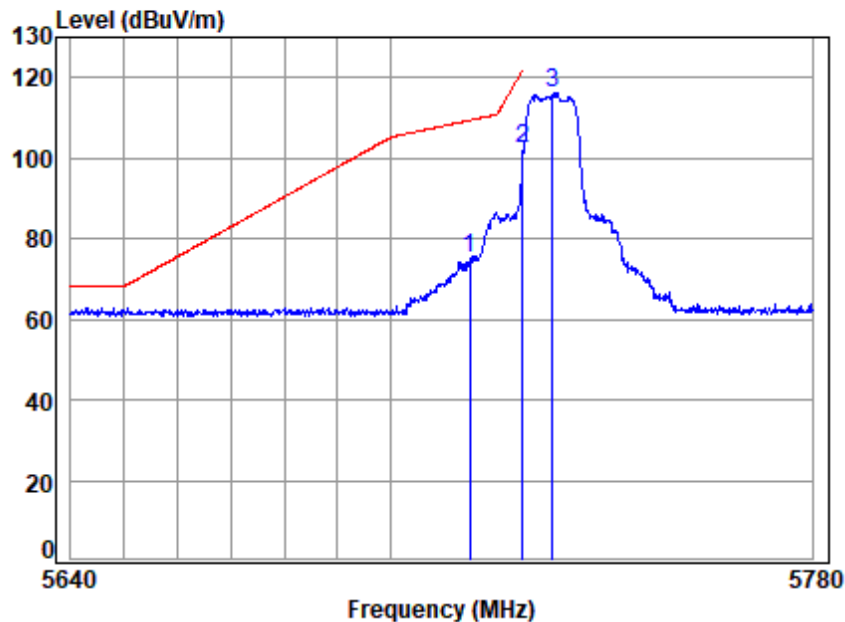
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



Test Mode: 44; Polarity: Horizontal; Hob Position Left

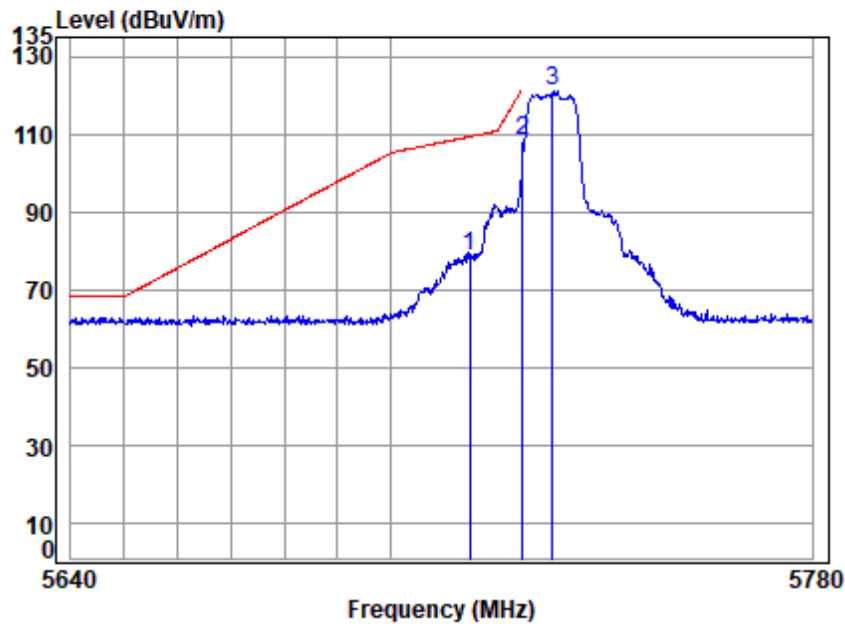


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5730.5 Band edge  
: 5.8G SRD 10M

		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	29.60	34.27	31.57	42.62	74.92	109.40	-34.48 peak
2 p	5725.000	29.61	34.25	31.57	70.20	102.49	122.20	-19.71 peak
3	5730.500	29.61	34.24	31.57	83.72	116.00	-----	----- peak



Test Mode: 44; Polarity: Vertical; Hob Position Left

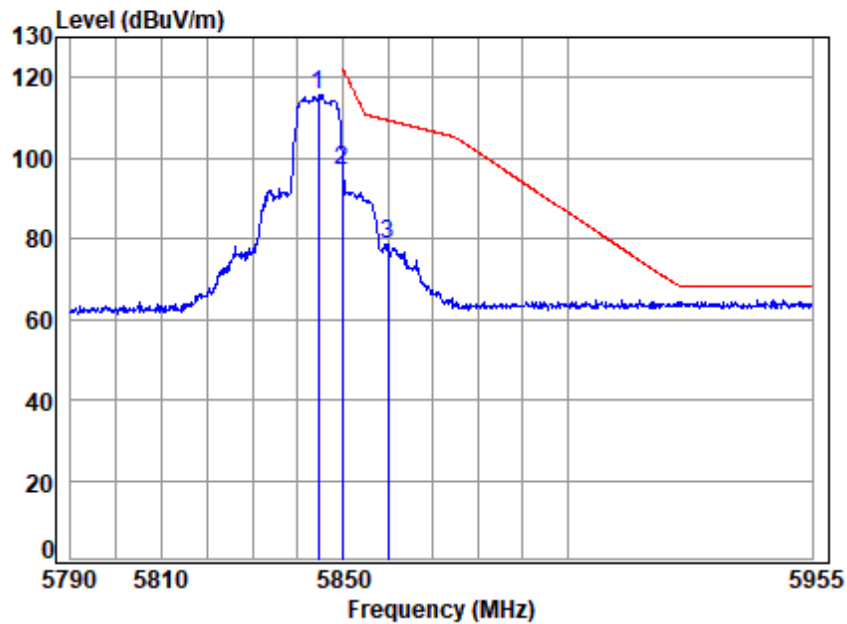


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5730.5 Band edge  
: 5.8G SRD 10M

		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	29.60	34.27	31.57	46.10	78.40	109.40	-31.00 peak
2 p	5725.000	29.61	34.25	31.57	75.80	108.09	122.20	-14.11 peak
3	5730.500	29.61	34.24	31.57	88.80	121.08	-----	----- peak



Test Mode: 44; Polarity: Horizontal; Modulation: 802.11be(26 RUMax)



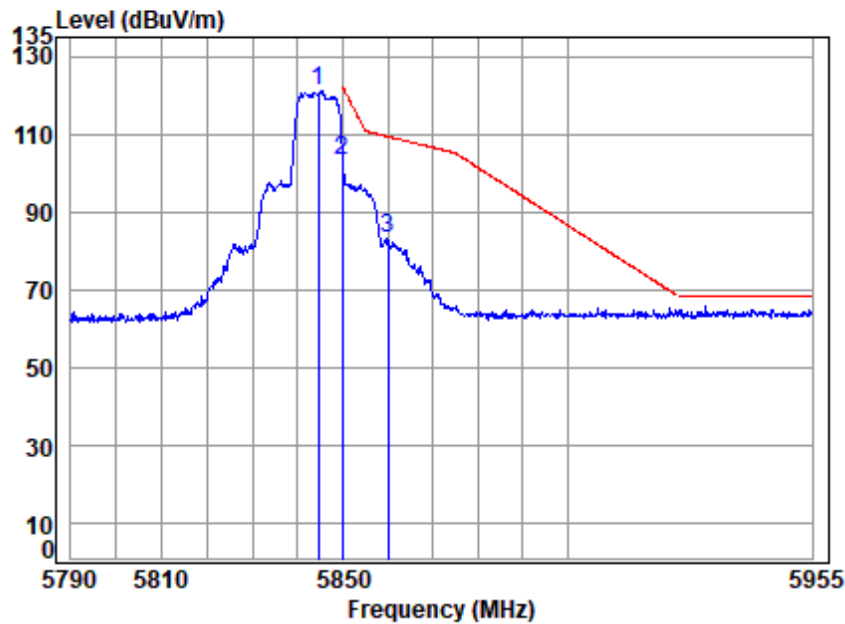
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5844.5 Band edge  
: 5.8G SRD 10M

		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	5844.500	29.68	34.39	31.63	83.16	115.60	-----	----- peak
2	5850.000	29.68	34.40	31.63	64.53	96.98	122.20	-25.22 peak
3	5860.000	29.69	34.44	31.64	45.89	78.38	109.40	-31.02 peak





Test Mode: 44; Polarity: Vertical; Modulation: 802.11be(26 RUMax)

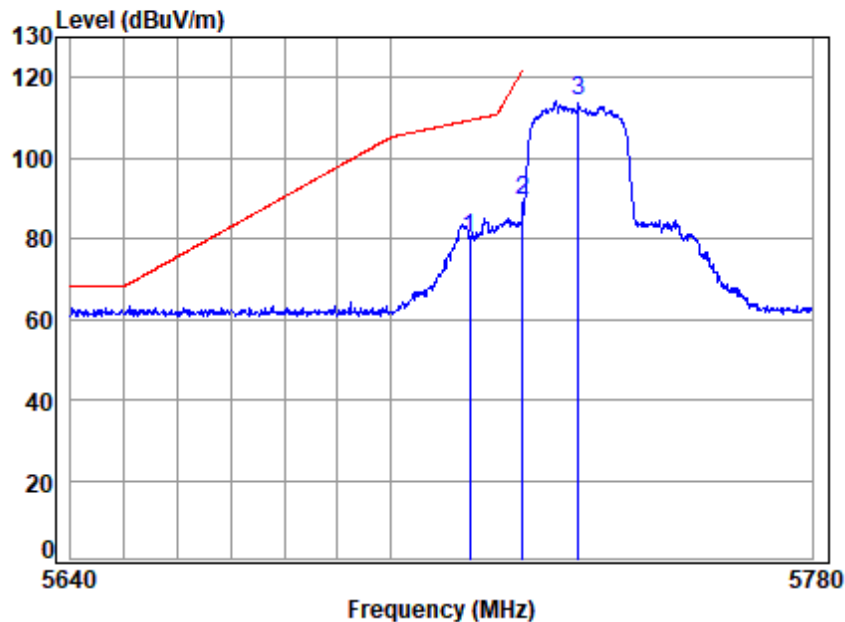


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5844.5 Band edge  
: 5.8G SRD 10M

		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	5844.500	29.68	34.39	31.63	88.77	121.21	-----	-----	peak
2 p	5850.000	29.68	34.40	31.63	70.54	102.99	122.20	-19.21	peak
3	5860.000	29.69	34.44	31.64	50.69	83.18	109.40	-26.22	peak



Test Mode: 46; Polarity: Horizontal; Hob Position Left

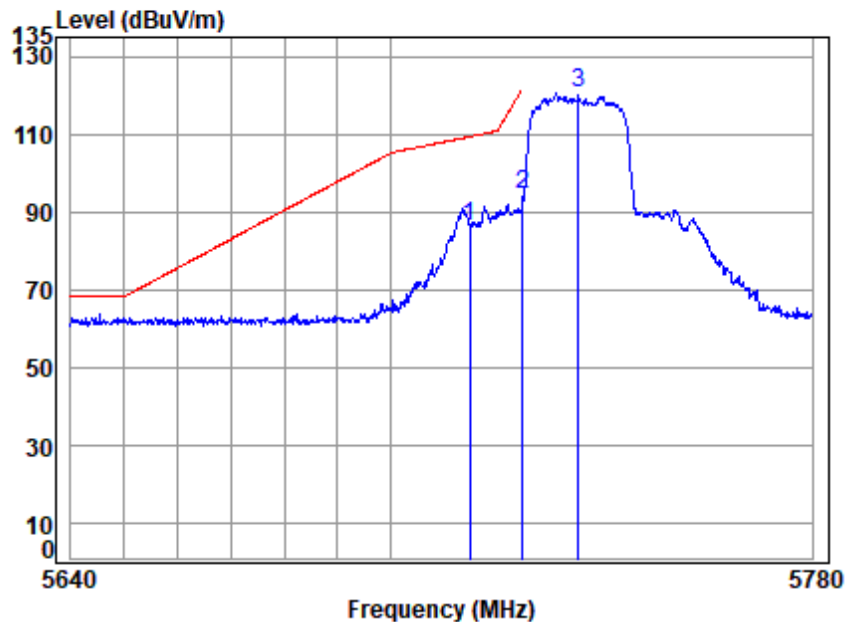


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5735.5 Band edge  
: 5.8G SRD 20M

		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 p 5715.000	29.60	34.27	31.57	47.85	80.15	109.40	-29.25	peak
2 5725.000	29.61	34.25	31.57	57.01	89.30	122.20	-32.90	peak
3 5735.500	29.61	34.23	31.58	81.72	113.98	-----	-----	peak



Test Mode: 46; Polarity: Vertical; Hob Position Left

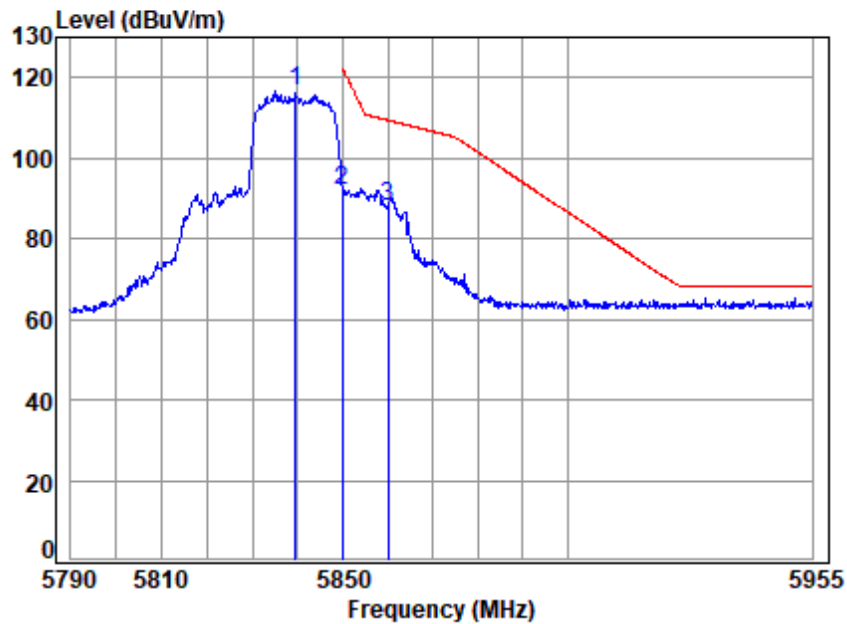


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5735.5 Band edge  
: 5.8G SRD 20M

		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 p 5715.000	29.60	34.27	31.57	54.03	86.33	109.40	-23.07	peak
2 5725.000	29.61	34.25	31.57	62.36	94.65	122.20	-27.55	peak
3 5735.500	29.61	34.23	31.58	88.29	120.55	-----	-----	peak



Test Mode: 46; Polarity: Horizontal; Modulation:802.11be(26 RUMax)



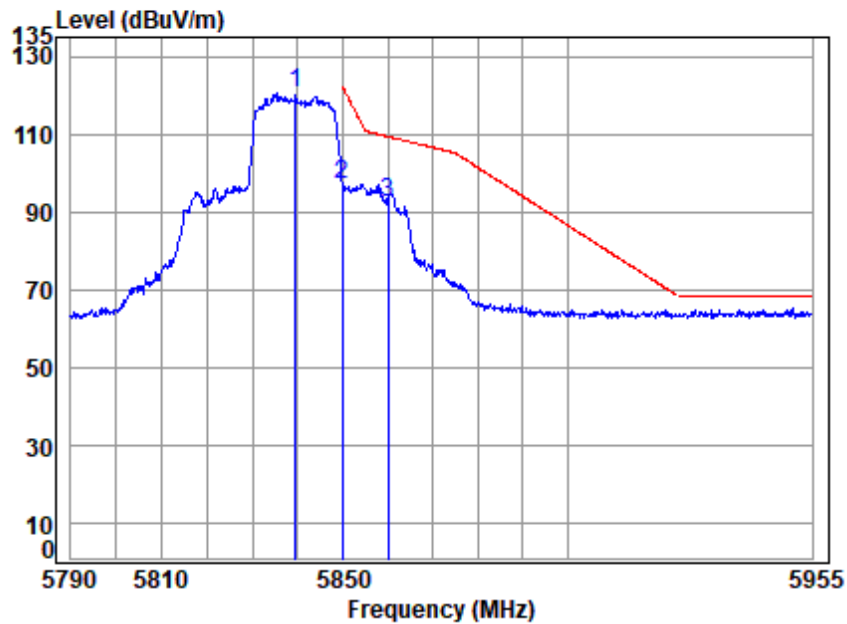
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5839.5 Band edge  
: 5.8G SRD 20M

		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	5839.500	29.68	34.38	31.63	84.00	116.43	-----	----- peak
2	5850.000	29.68	34.40	31.63	59.44	91.89	122.20	-30.31 peak
3 p	5860.000	29.69	34.44	31.64	55.44	87.93	109.40	-21.47 peak





Test Mode: 46; Polarity: Vertical; Modulation: 802.11be(26 RUMax)

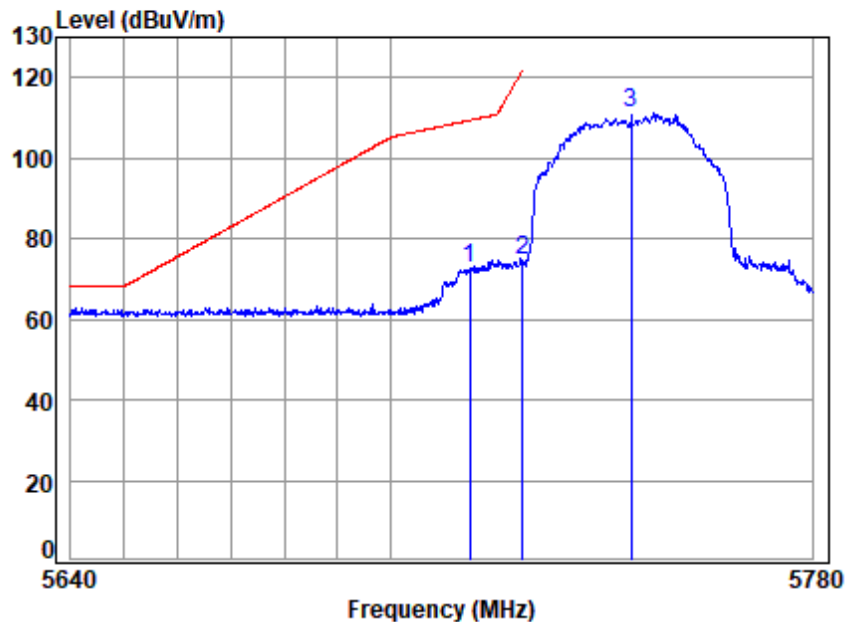


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5839.5 Band edge  
: 5.8G SRD 20M

		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	5839.500	29.68	34.38	31.63	87.95	120.38	-----	----- peak
2	5850.000	29.68	34.40	31.63	64.51	96.96	122.20	-25.24 peak
3 p	5860.000	29.69	34.44	31.64	59.93	92.42	109.40	-16.98 peak



Test Mode: 48; Polarity: Horizontal; Hob Position Left

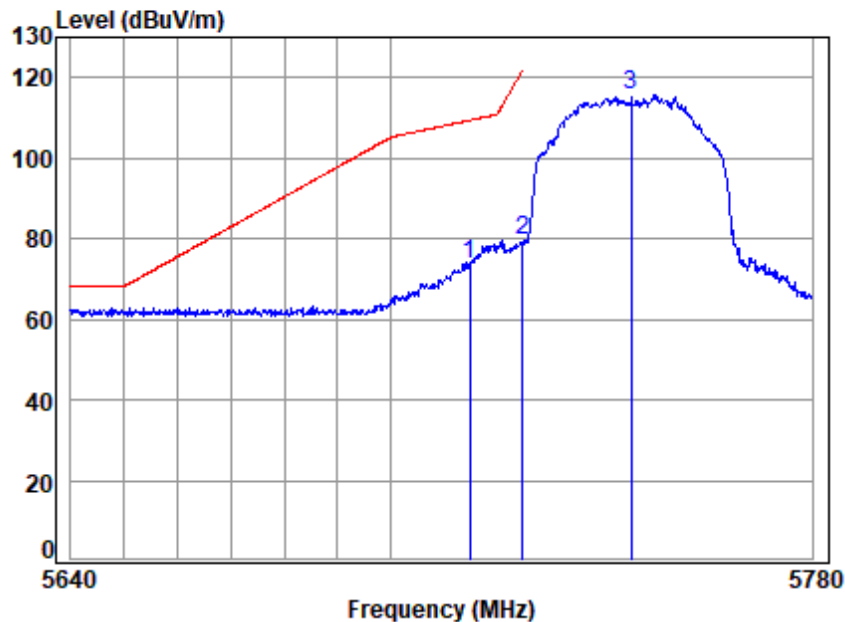


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5745.5 Band edge  
: 5.8G SRD 40M

		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 p 5715.000	29.60	34.27	31.57	40.50	72.80	109.40	-36.60	peak
2 5725.000	29.61	34.25	31.57	42.47	74.76	122.20	-47.44	peak
3 5745.500	29.62	34.21	31.58	78.86	111.11	-----	-----	peak



Test Mode: 48; Polarity: Vertical; Hob Position Left

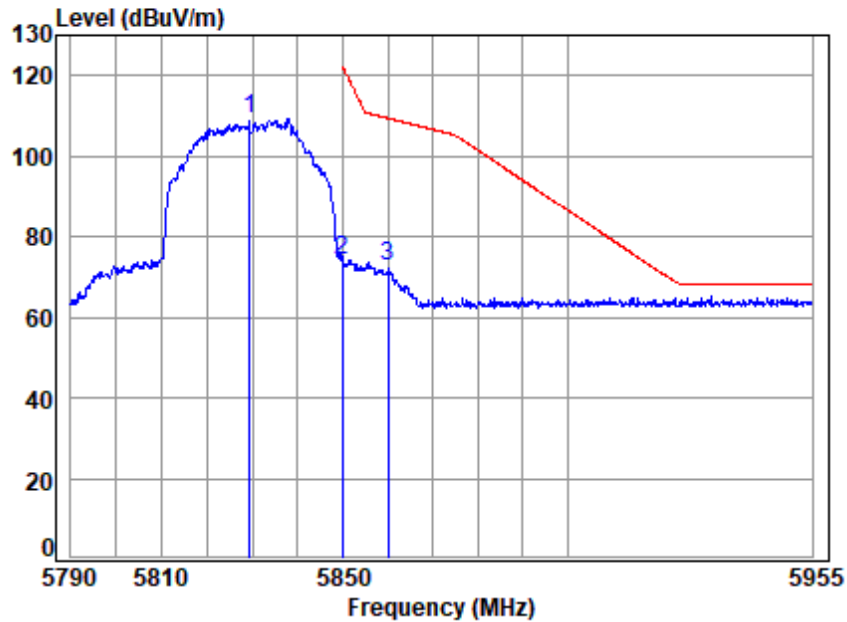


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01578AT  
 Mode : 5745.5 Band edge  
 : 5.8G SRD 40M

		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 p 5715.000	29.60	34.27	31.57	41.18	73.48	109.40	-35.92	peak
2 5725.000	29.61	34.25	31.57	47.12	79.41	122.20	-42.79	peak
3 5745.500	29.62	34.21	31.58	83.38	115.63	-----	-----	peak



Test Mode: 48; Polarity: Horizontal; Modulation: 802.11be(26 RUMax)



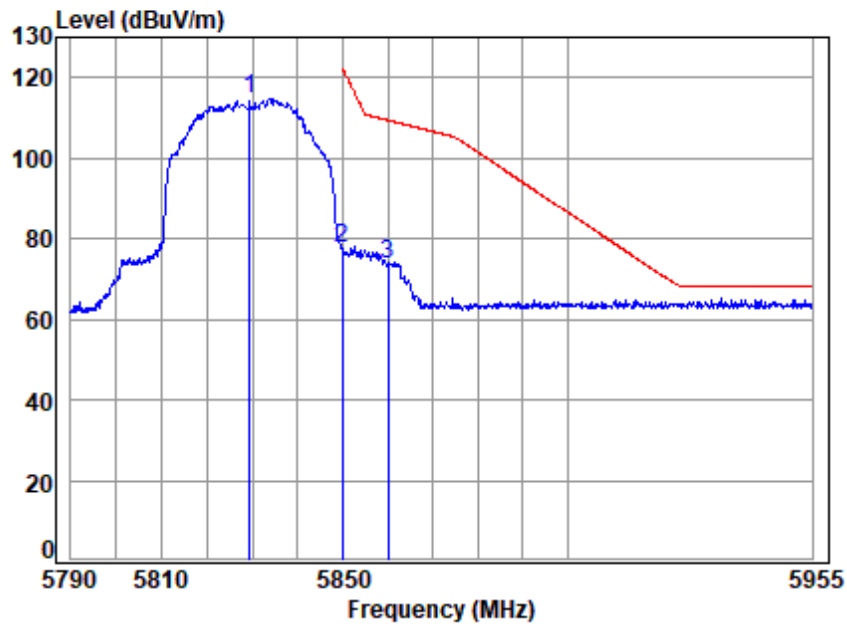
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5829.5 Band edge  
: 5.8G SRD 40M

		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 5829.500	29.67	34.36	31.62	76.77	109.18	-----	-----	peak
2 5850.000	29.68	34.40	31.63	41.46	73.91	122.20	-48.29	peak
3 p 5860.000	29.69	34.44	31.64	40.29	72.78	109.40	-36.62	peak





Test Mode: 48; Polarity: Vertical; Modulation: 802.11b(26 RUMax)

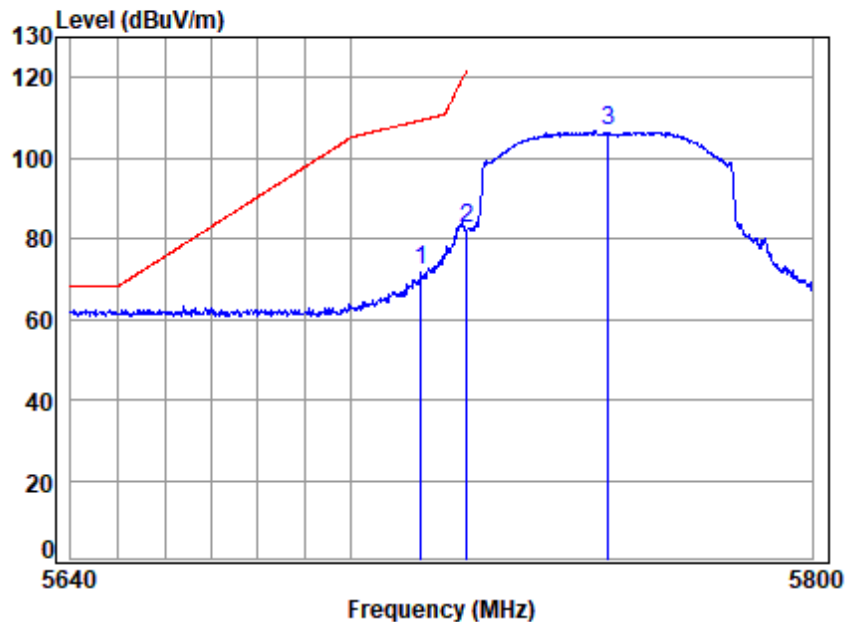


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5829.5 Band edge  
: 5.8G SRD 40M

		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 5829.500	29.67	34.36	31.62	82.48	114.89	-----	-----	peak
2 5850.000	29.68	34.40	31.63	45.33	77.78	122.20	-44.42	peak
3 p 5860.000	29.69	34.44	31.64	41.39	73.88	109.40	-35.52	peak



Test Mode: 50; Polarity: Horizontal; Hob Position Left

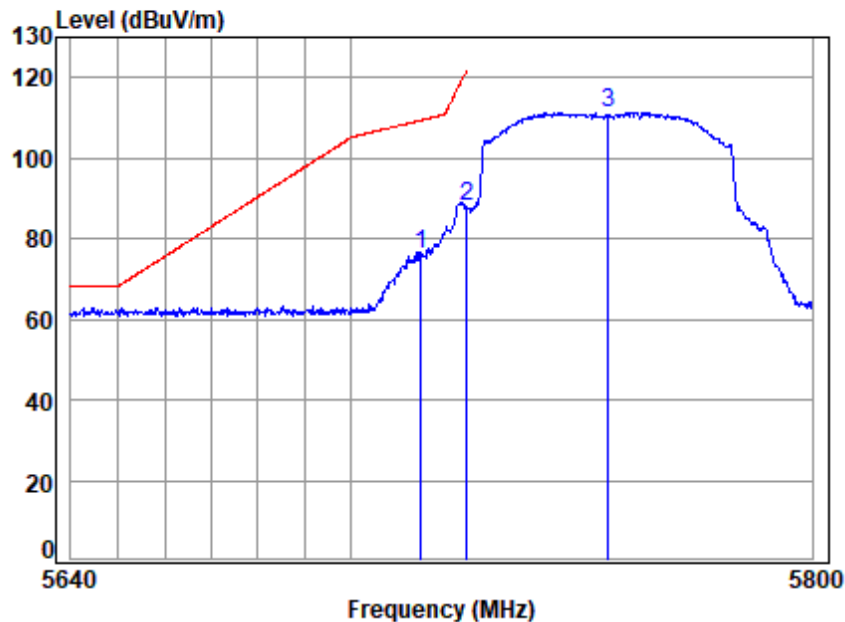


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5755.5 Band edge  
: 5.8G SRD 60M

		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 p 5715.000	29.60	34.27	31.57	39.67	71.97	109.40	-37.43	peak
2 5725.000	29.61	34.25	31.57	50.32	82.61	122.20	-39.59	peak
3 5755.500	29.63	34.21	31.59	74.47	106.72	-----	-----	peak



Test Mode: 50; Polarity: Vertical; Hob Position Left

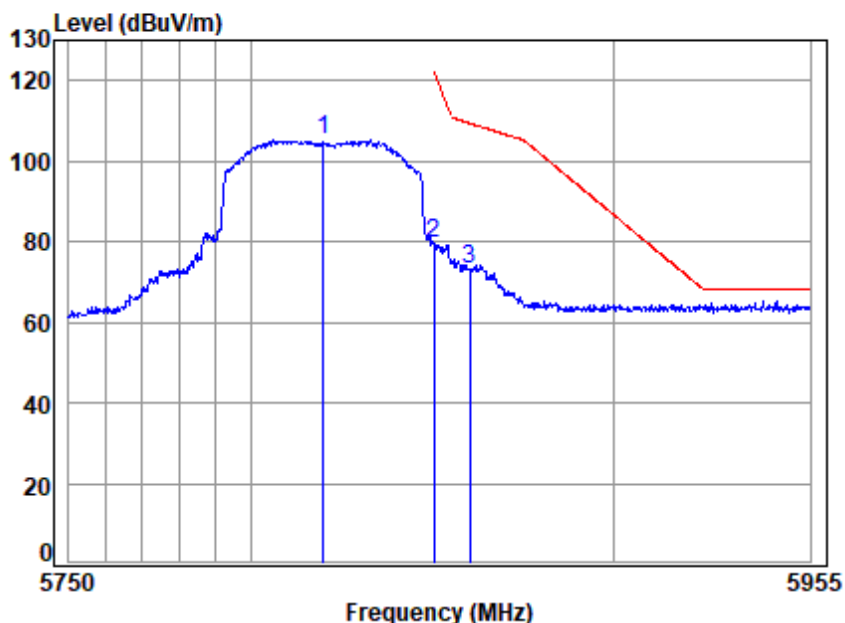


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01578AT  
 Mode : 5755.5 Band edge  
 : 5.8G SRD 60M

		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 p 5715.000	29.60	34.27	31.57	43.69	75.99	109.40	-33.41	peak
2 5725.000	29.61	34.25	31.57	55.46	87.75	122.20	-34.45	peak
3 5755.500	29.63	34.21	31.59	79.14	111.39	-----	-----	peak



Test Mode: 50; Polarity: Horizontal; Modulation:802.11be(26 RUMax)



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5819.5 Band edge  
: 5.8G SRD 60M

		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 5819.500	29.66	34.34	31.62	72.99	105.37	-----	-----	peak
2 5850.000	29.68	34.40	31.63	47.02	79.47	122.20	-42.73	peak
3 p 5860.000	29.69	34.44	31.64	40.77	73.26	109.40	-36.14	peak

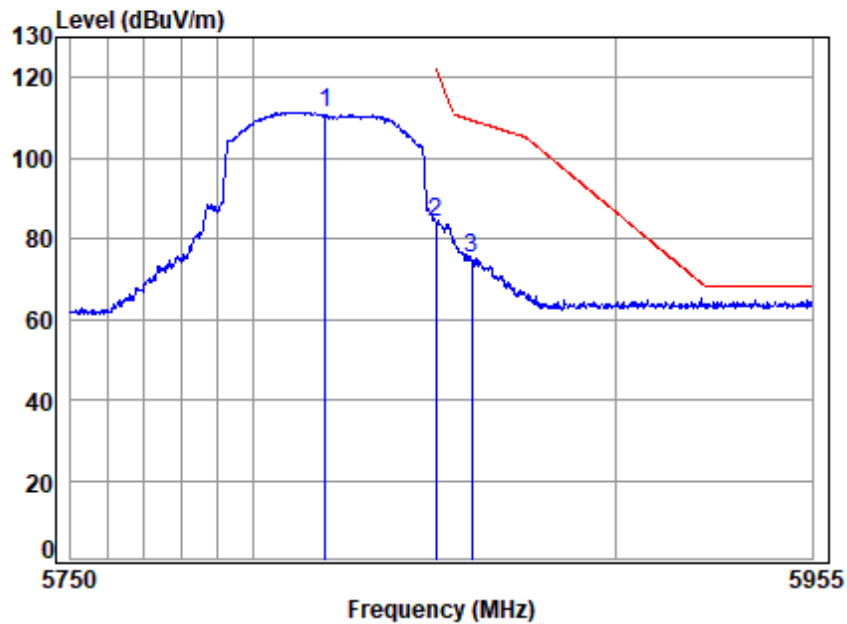


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Test Mode: 50; Polarity: Vertical; Modulation: 802.11b(26 RUMax)

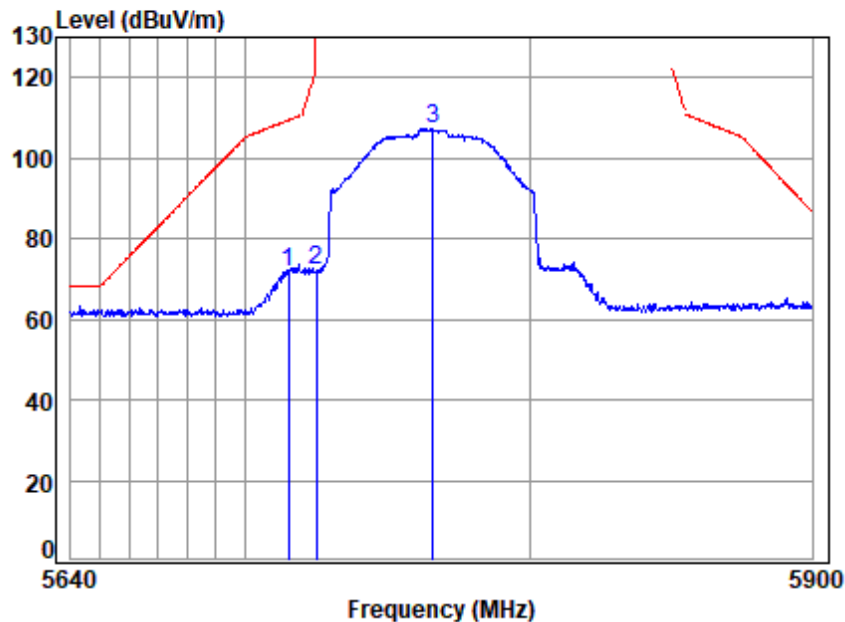


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5819.5 Band edge  
: 5.8G SRD 60M

		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	5819.500	29.66	34.34	31.62	79.02	111.40	-----	----- peak
2	5850.000	29.68	34.40	31.63	51.49	83.94	122.20	-38.26 peak
3 p	5860.000	29.69	34.44	31.64	42.61	75.10	109.40	-34.30 peak



Test Mode: 52; Polarity: Horizontal; Hob Position Left

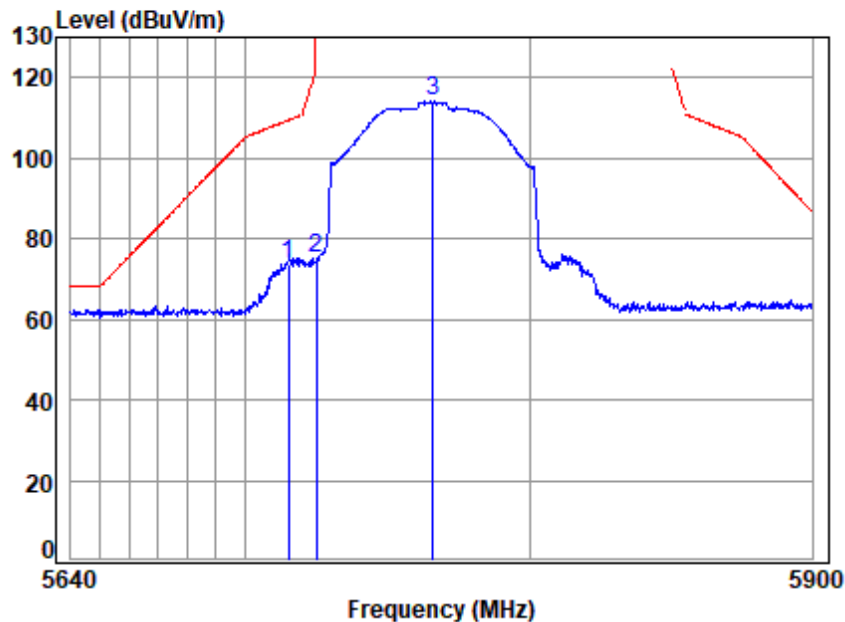


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5765.5 Band edge  
: 5.8G SRD 80M

		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 p 5715.000	29.60	34.27	31.57	39.34	71.64	109.40	-37.76	peak
2 5725.000	29.61	34.25	31.57	39.86	72.15	122.20	-50.05	peak
3 5765.500	29.63	34.23	31.59	74.85	107.12	-----	-----	peak



Test Mode: 52; Polarity: Vertical; Hob Position Left

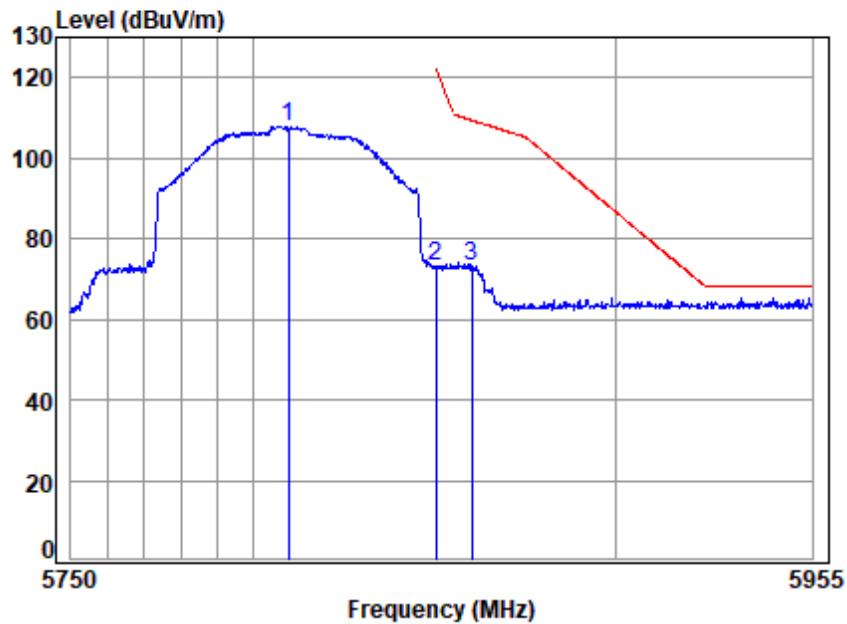


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01578AT  
 Mode : 5765.5 Band edge  
 : 5.8G SRD 80M

		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 p 5715.000	29.60	34.27	31.57	41.34	73.64	109.40	-35.76	peak
2 5725.000	29.61	34.25	31.57	42.95	75.24	122.20	-46.96	peak
3 5765.500	29.63	34.23	31.59	81.80	114.07	-----	-----	peak



Test Mode: 52; Polarity: Horizontal; Modulation:802.11be(26 RUMax)



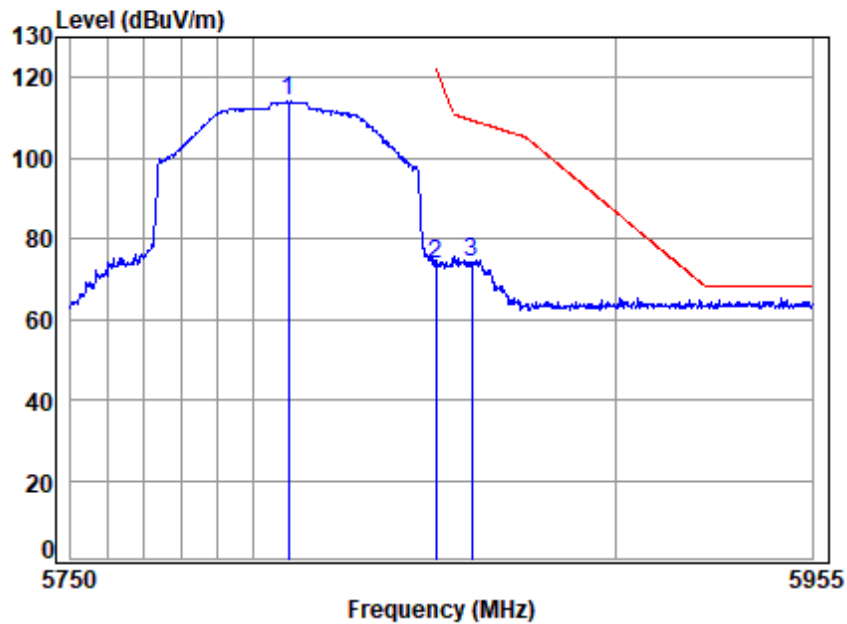
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5809.5 Band edge  
: 5.8G SRD 80M

		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 5809.500	29.66	34.32	31.61	75.54	107.91	-----	-----	peak
2 5850.000	29.68	34.40	31.63	40.76	73.21	122.20	-48.99	peak
3 p 5860.000	29.69	34.44	31.64	40.71	73.20	109.40	-36.20	peak





Test Mode: 52; Polarity: Vertical; Modulation: 802.11be(26 RUMax)

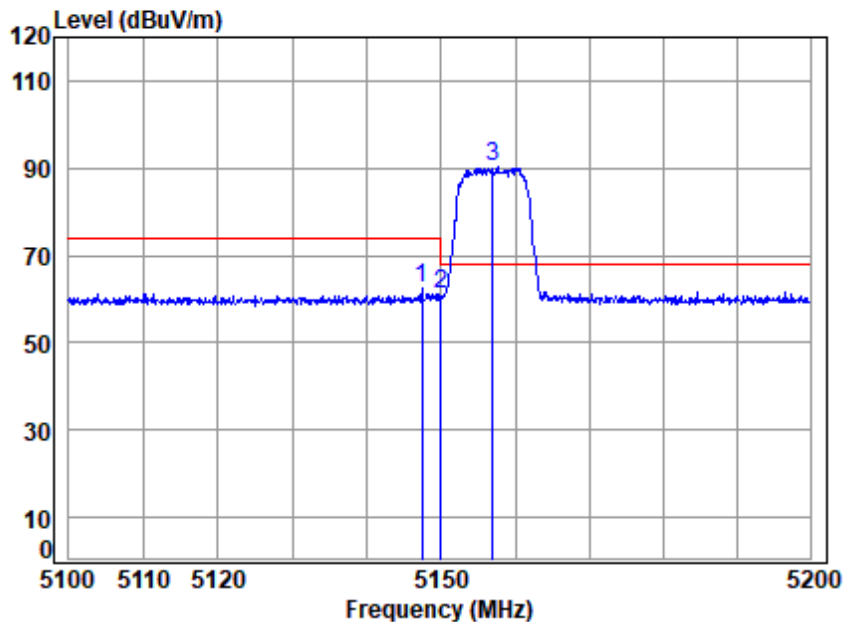


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5809.5 Band edge  
: 5.8G SRD 80M

		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 5809.500	29.66	34.32	31.61	81.80	114.17	-----	-----	peak
2 5850.000	29.68	34.40	31.63	41.32	73.77	122.20	-48.43	peak
3 p 5860.000	29.69	34.44	31.64	41.70	74.19	109.40	-35.21	peak



Test Mode: 54; Polarity: Horizontal; Hob Position Left

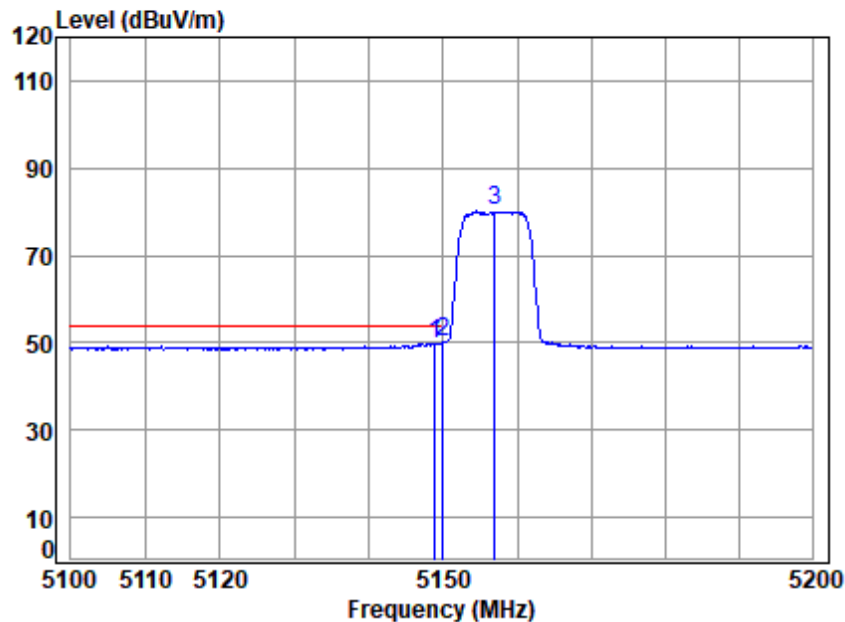


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5157 Band edge  
: 5.1G SRD 10M

		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	5147.358	18.83	33.91	31.28	40.92	62.38	74.00	-11.62	peak
2	5149.980	18.83	33.90	31.28	39.49	60.94	74.00	-13.06	peak
3 p	5157.000	18.84	33.91	31.28	68.77	90.24	68.20	22.04	peak



Test Mode: 54; Polarity: Horizontal; Hob Position Left

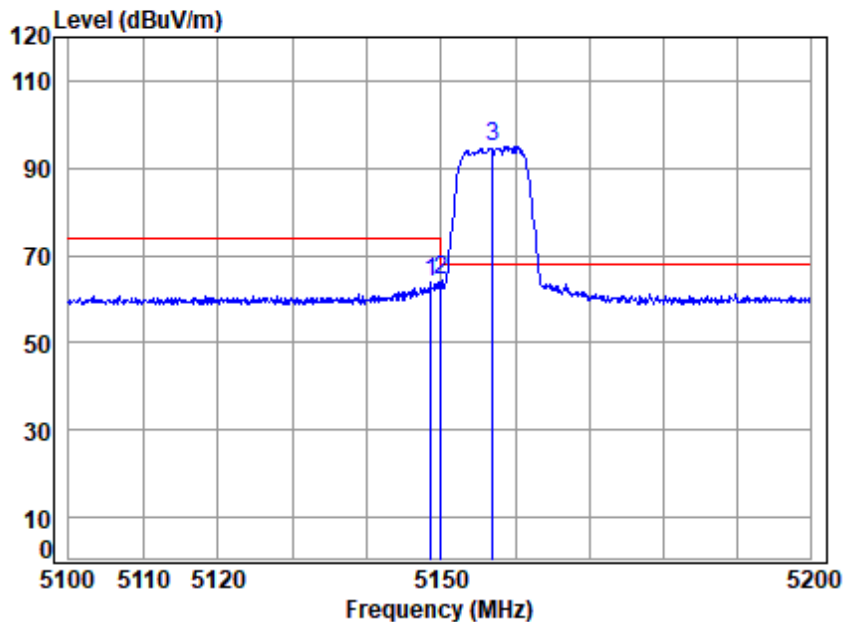


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5157 Band edge  
: 5.1G SRD 10M

		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	5148.857	18.83	33.90	31.28	28.46	49.91	54.00	-4.09 Average
2 q	5149.980	18.83	33.90	31.28	28.76	50.21	54.00	-3.79 Average
3	5157.000	18.84	33.91	31.28	58.77	80.24	-----	----- Average



Test Mode: 54; Polarity: Vertical; Hob Position Left



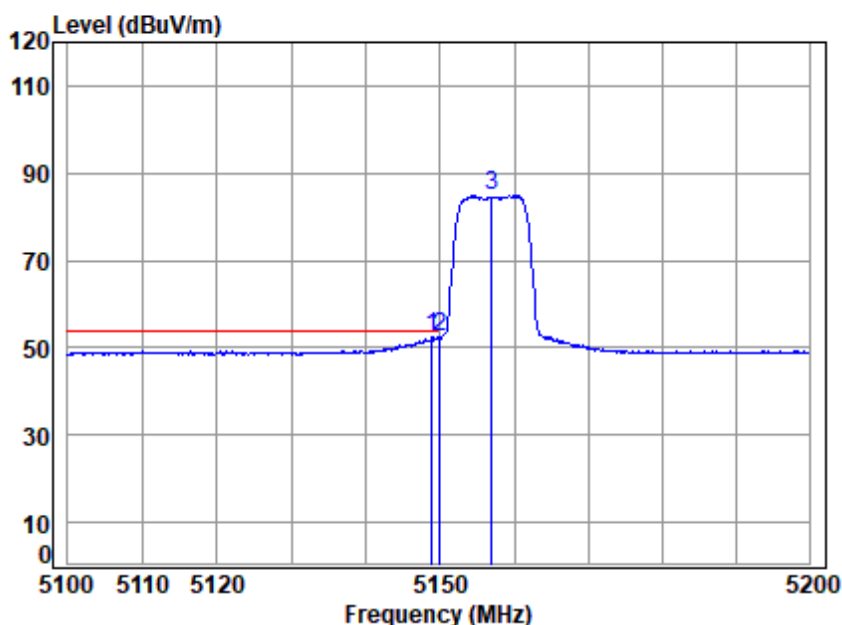
Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5157 Band edge  
: 5.1G SRD 10M

		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	5148.558	18.83	33.90	31.28	42.33	63.78	74.00	-10.22	Peak
2	5149.980	18.83	33.90	31.28	42.71	64.16	74.00	-9.84	Peak
3 p	5157.000	18.84	33.91	31.28	73.60	95.07	68.20	26.87	Peak





Test Mode: 54; Polarity: Vertical; Hob Position Left

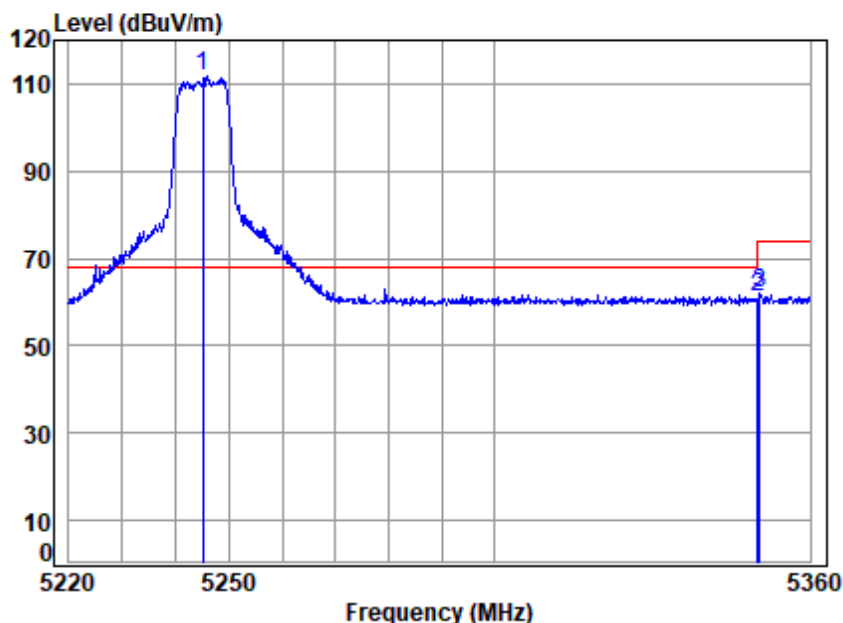


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5157 Band edge  
: 5.1G SRD 10M

		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 5148.857	18.83	33.90	31.28	30.91	52.36	54.00	-1.64	Average
2 q 5149.980	18.83	33.90	31.28	31.11	52.56	54.00	-1.44	Average
3 5157.000	18.84	33.91	31.28	63.44	84.91	-----	-----	Average



Test Mode: 54; Polarity: Horizontal; Modulation: 802.11be(26 RUMax)



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5245 Band edge  
: 5.1G SRD 10M

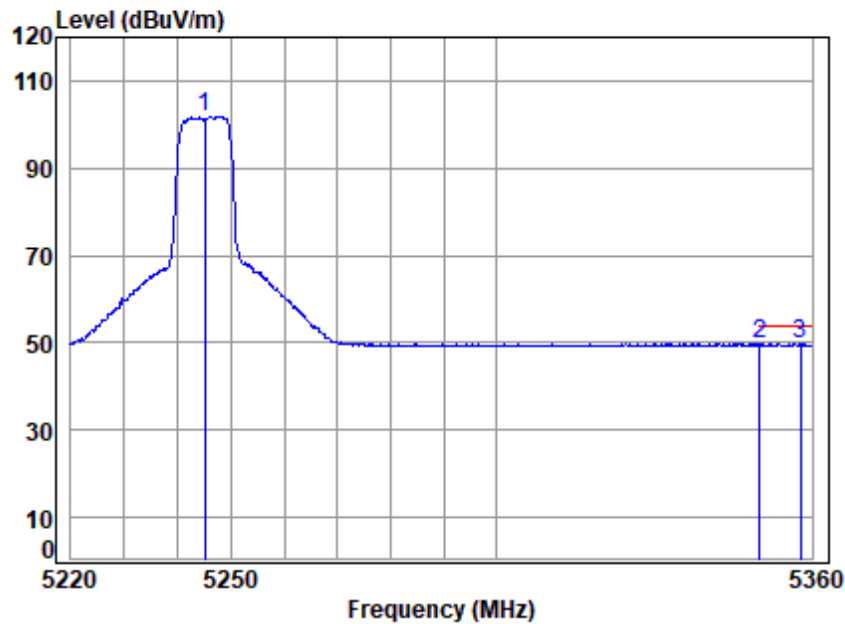
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5245.000	18.97	34.09	31.33	89.92	111.65	68.20	43.45	peak
2	5350.020	19.11	34.40	31.39	38.80	60.92	74.00	-13.08	peak
3	5350.362	19.11	34.40	31.39	39.86	61.98	74.00	-12.02	peak



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Test Mode: 54; Polarity: Horizontal; Modulation:802.11be(26 RUMax)

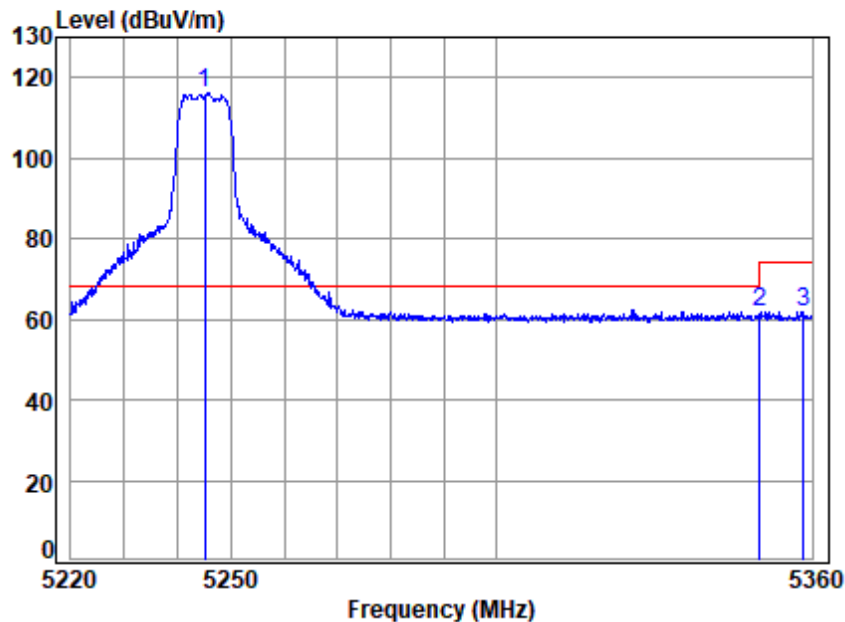


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5245 Band edge  
: 5.1G SRD 10M

		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	5245.000	18.97	34.09	31.33	80.25	101.98	-----	----- Average
2	5350.020	19.11	34.40	31.39	27.51	49.63	54.00	-4.37 Average
3 q	5357.873	19.12	34.43	31.39	27.65	49.81	54.00	-4.19 Average



Test Mode: 54; Polarity: Vertical; Modulation: 802.11be(26 RUMax)



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5245 Band edge  
: 5.1G SRD 10M

		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 p 5245.000	18.97	34.09	31.33	94.62	116.35	68.20	48.15	Peak
2 5350.020	19.11	34.40	31.39	39.47	61.59	74.00	-12.41	Peak
3 5358.440	19.12	34.43	31.39	39.75	61.91	74.00	-12.09	Peak

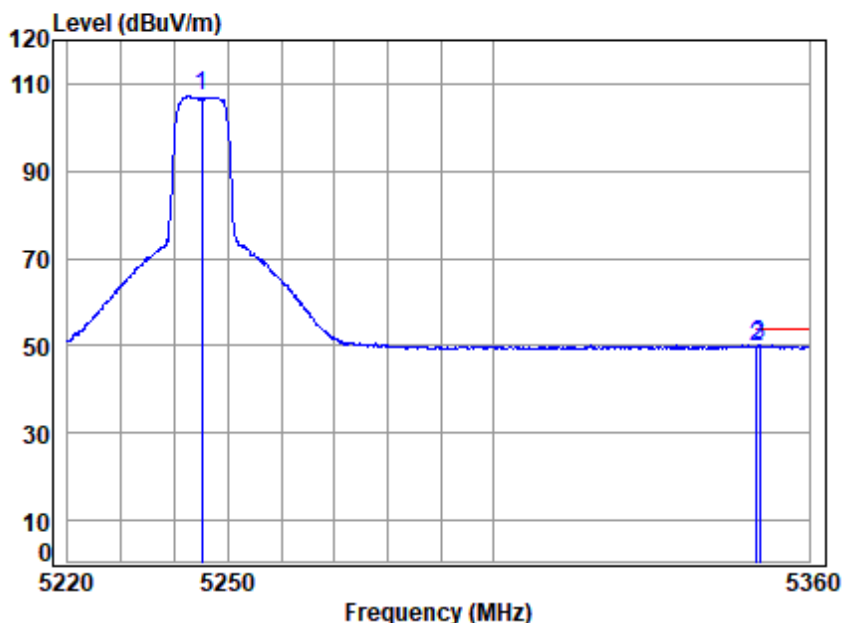


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Test Mode: 54; Polarity: Vertical; Modulation: 802.11be(26 RUMax)



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5245 Band edge  
: 5.1G SRD 10M

		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 5245.000	18.97	34.09	31.33	85.63	107.36	-----	-----	Average
2 5350.020	19.11	34.40	31.39	27.76	49.88	54.00	-4.12	Average
3 q 5350.504	19.11	34.40	31.39	27.96	50.08	54.00	-3.92	Average



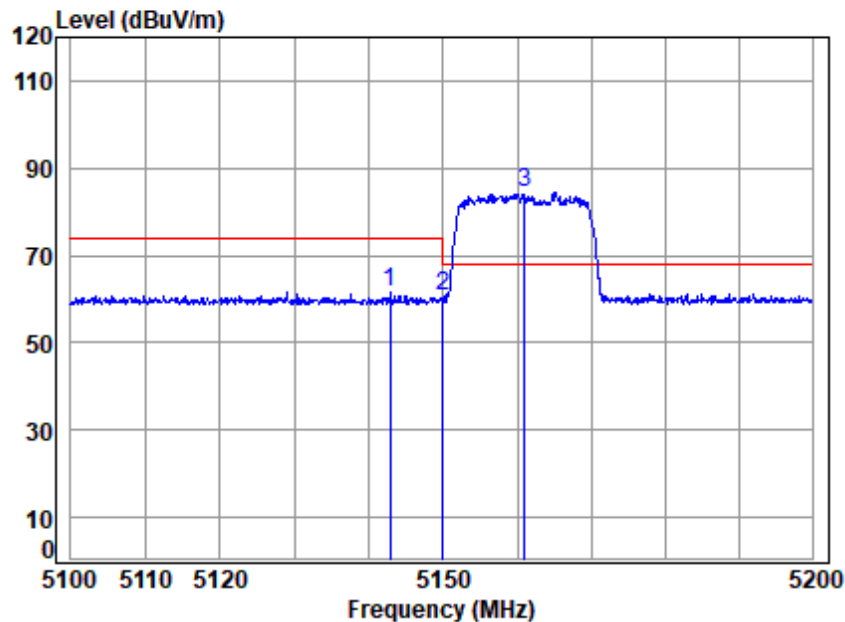
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Test Mode: 56; Polarity: Horizontal; Hob Position Left

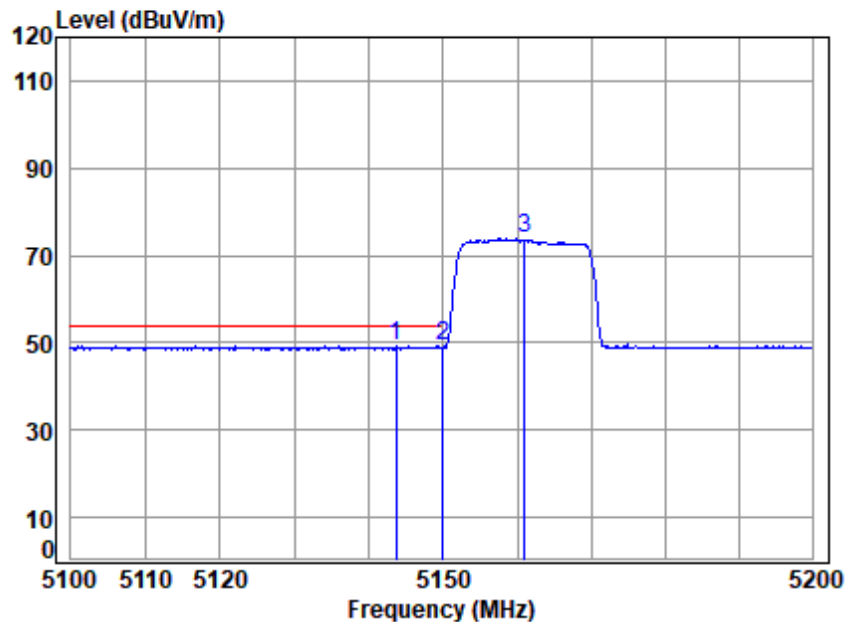


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5161 Band edge  
: 5.1G SRD 20M

		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	5142.862	18.82	33.91	31.28	39.94	61.39	74.00	-12.61	peak
2	5149.980	18.83	33.90	31.28	39.36	60.81	74.00	-13.19	peak
3 p	5161.000	18.85	33.92	31.29	62.83	84.31	68.20	16.11	peak



Test Mode: 56; Polarity: Horizontal; Hob Position Left

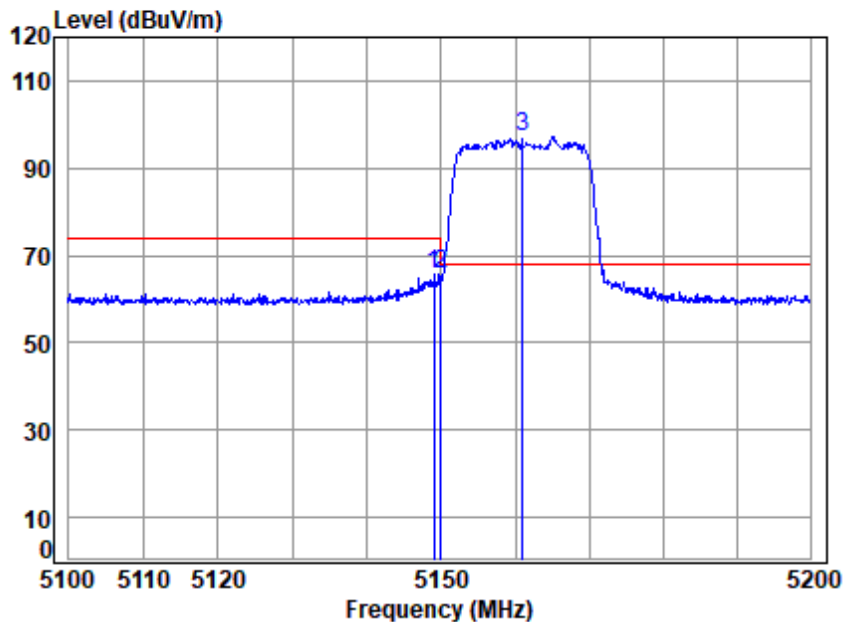


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5161 Band edge  
: 5.1G SRD 20M

		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 q 5143.661	18.83	33.91	31.28	27.86	49.32	54.00	-4.68	Average
2 5149.980	18.83	33.90	31.28	27.70	49.15	54.00	-4.85	Average
3 5161.000	18.85	33.92	31.29	52.50	73.98	-----	-----	Average



Test Mode: 56; Polarity: Vertical; Hob Position Left



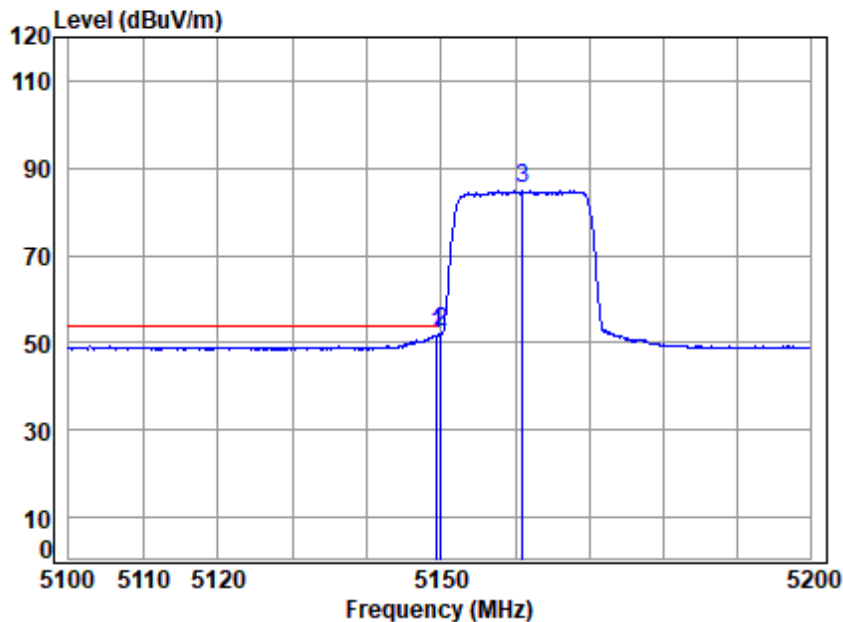
Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5161 Band edge  
: 5.1G SRD 20M

		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	5149.057	18.83	33.90	31.28	44.22	65.67	74.00	-8.33 peak
2	5149.980	18.83	33.90	31.28	44.36	65.81	74.00	-8.19 peak
3 p	5161.000	18.85	33.92	31.29	75.67	97.15	68.20	28.95 peak





Test Mode: 56; Polarity: Vertical; Hob Position Left

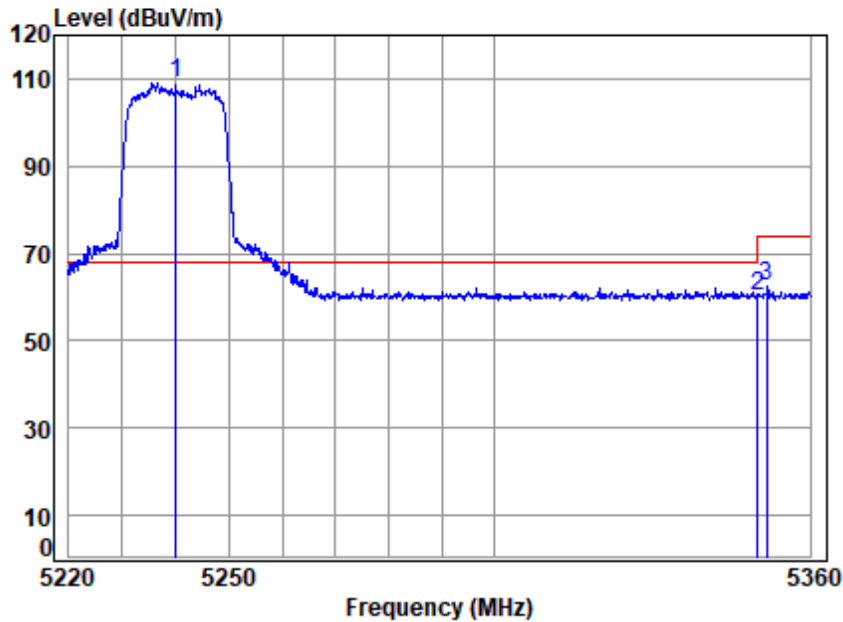


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5161 Band edge  
: 5.1G SRD 20M

		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	5149.357	18.83	33.90	31.28	30.52	51.97	54.00	-2.03 Average
2 q	5149.980	18.83	33.90	31.28	30.82	52.27	54.00	-1.73 Average
3	5161.000	18.85	33.92	31.29	63.90	85.38	-----	----- Average



Test Mode: 56; Polarity: Horizontal; Modulation: 802.11be(26 RUMax)



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5240 Band edge  
: 5.1G SRD 20M

		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 p	5240.000	18.96	34.08	31.33	87.49	109.20	68.20	41.00	peak
2	5350.020	19.11	34.40	31.39	38.30	60.42	74.00	-13.58	peak
3	5351.778	19.11	34.41	31.39	40.32	62.45	74.00	-11.55	peak



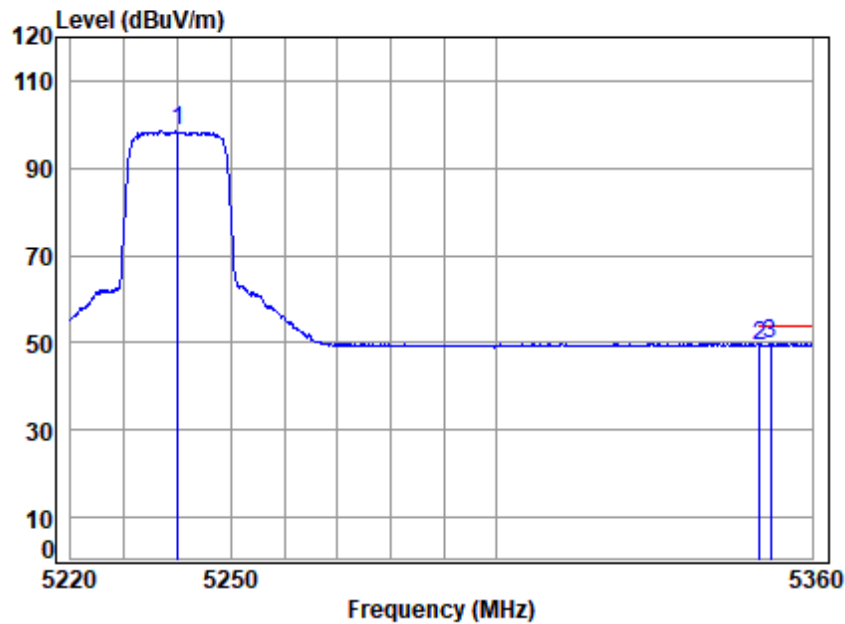
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Test Mode: 56; Polarity: Horizontal; Modulation: 802.11be(26 RUMax)

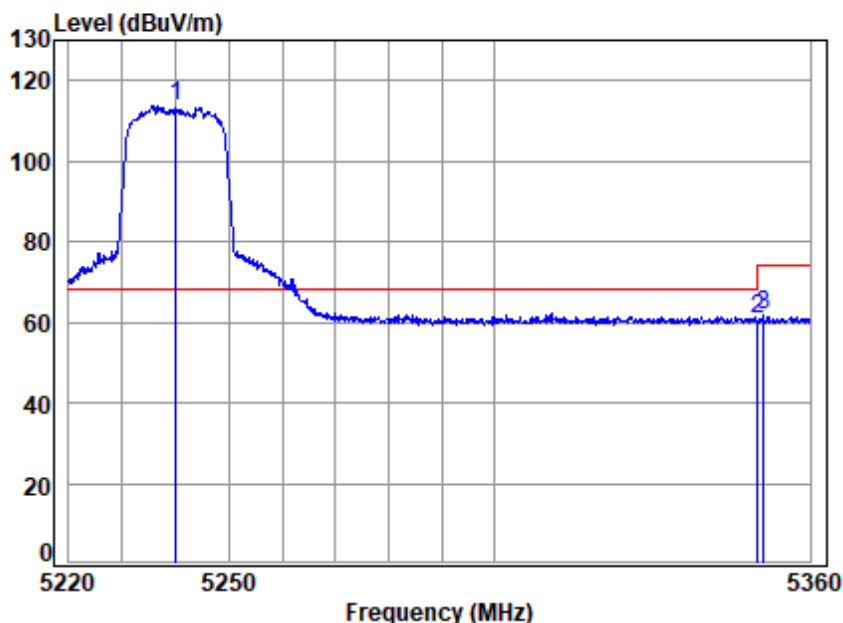


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5240 Band edge  
: 5.1G SRD 20M

		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	18.96	34.08	31.33	76.69	98.40	-----	-----	Average
2 5350.020	19.11	34.40	31.39	27.33	49.45	54.00	-4.55	Average
3 q 5352.062	19.11	34.41	31.39	27.57	49.70	54.00	-4.30	Average



Test Mode: 56; Polarity: Vertical; Modulation: 802.11b(26 RUMax)



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5240 Band edge  
: 5.1G SRD 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5240.000	18.96	34.08	31.33	91.92	113.63	68.20	45.43 Peak
2	5350.020	19.11	34.40	31.39	38.68	60.80	74.00	-13.20 Peak
3	5351.070	19.11	34.40	31.39	39.52	61.64	74.00	-12.36 Peak

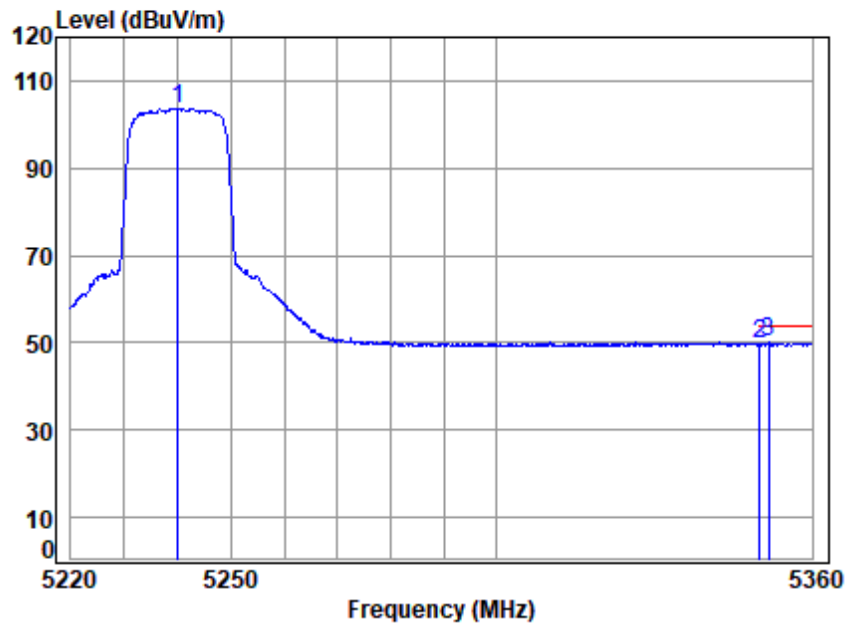


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Test Mode: 56; Polarity: Vertical; Modulation: 802.11be(26 RUMax)

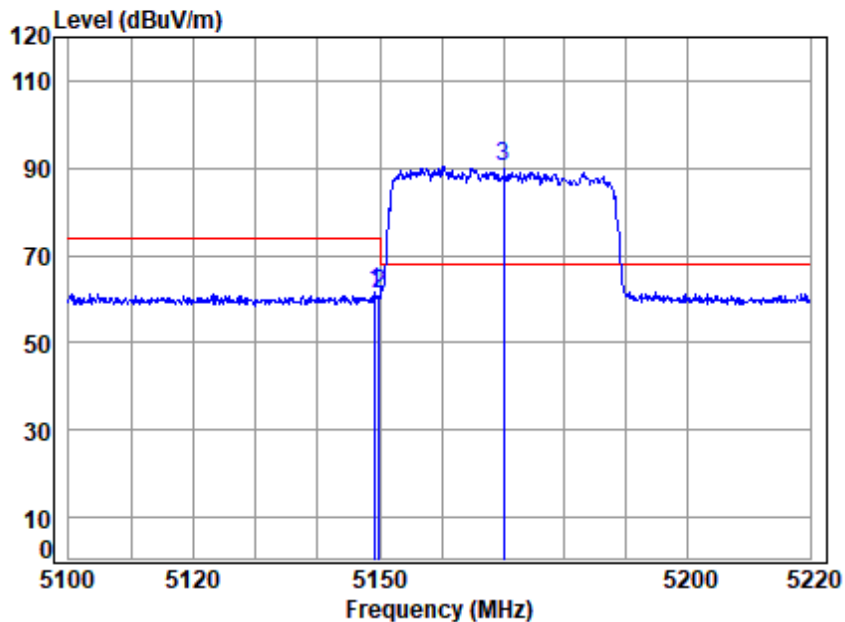


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5240 Band edge  
: 5.1G SRD 20M

		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	18.96	34.08	31.33	81.95	103.66	-----	----- Average
2	5350.020	19.11	34.40	31.39	27.65	49.77	54.00	-4.23 Average
3 q	5351.637	19.11	34.41	31.39	27.89	50.02	54.00	-3.98 Average



Test Mode: 58; Polarity: Horizontal; Hob Position Left

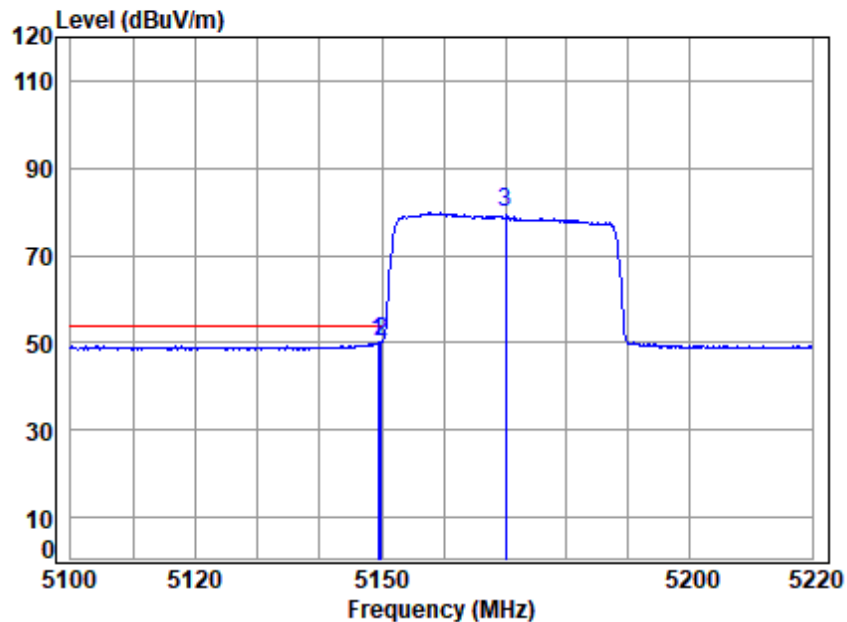


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5170 Band edge  
: 5.1G SRD 40M

		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	5149.222	18.83	33.90	31.28	40.29	61.74	74.00	-12.26	peak
2	5149.980	18.83	33.90	31.28	39.82	61.27	74.00	-12.73	peak
3 p	5170.000	18.86	33.94	31.29	68.98	90.49	68.20	22.29	peak



Test Mode: 58; Polarity: Horizontal; Hob Position Left

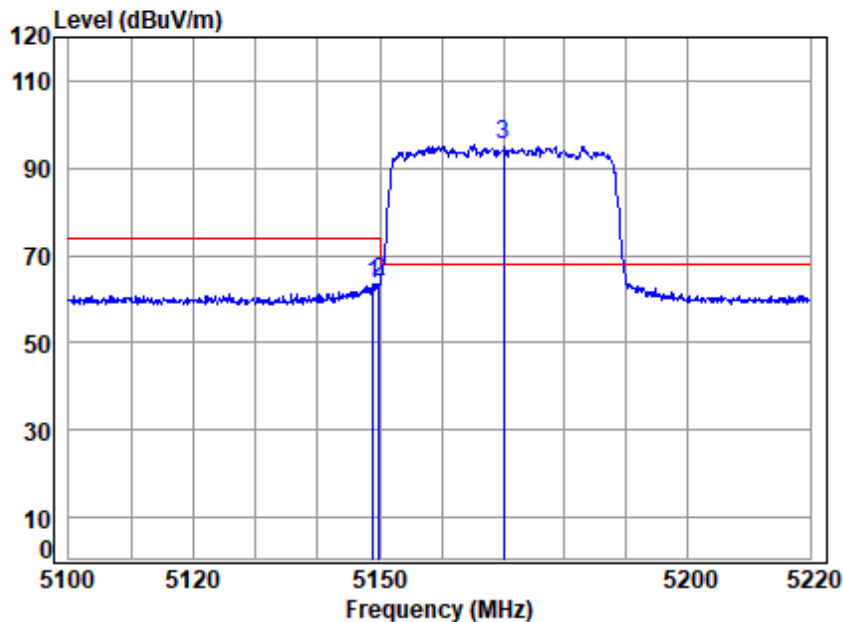


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5170 Band edge  
: 5.1G SRD 40M

		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	5149.461	18.83	33.90	31.28	28.72	50.17	54.00	-3.83 Average
2 q	5149.980	18.83	33.90	31.28	28.84	50.29	54.00	-3.71 Average
3	5170.000	18.86	33.94	31.29	58.30	79.81	-----	----- Average



Test Mode: 58; Polarity: Vertical; Hob Position Left



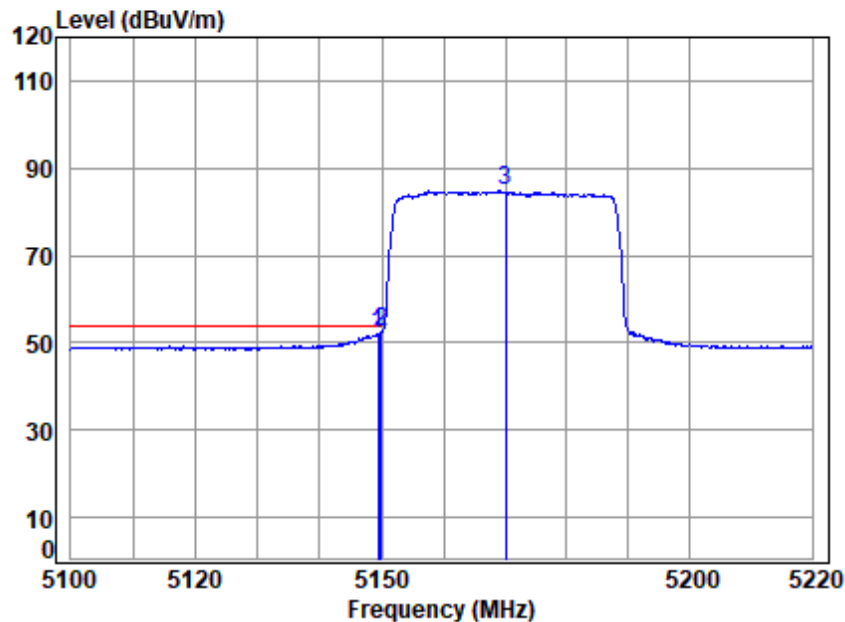
Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5170 Band edge  
: 5.1G SRD 40M

		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	5148.982	18.83	33.90	31.28	42.20	63.65	74.00	-10.35	Peak
2	5149.980	18.83	33.90	31.28	42.36	63.81	74.00	-10.19	Peak
3 p	5170.000	18.86	33.94	31.29	73.84	95.35	68.20	27.15	Peak





Test Mode: 58; Polarity: Vertical; Hob Position Left

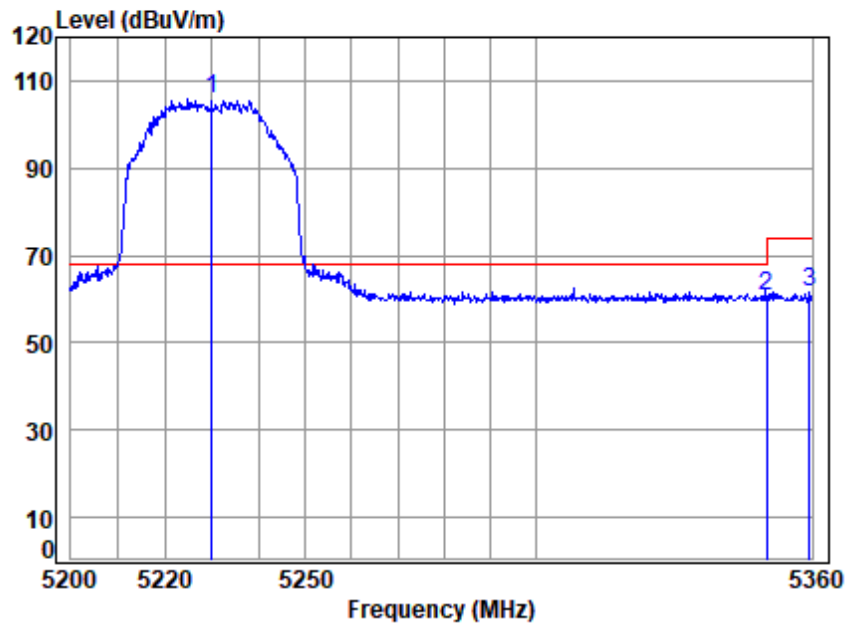


Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5170 Band edge  
: 5.1G SRD 40M

		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 5149.461	18.83	33.90	31.28	30.72	52.17	54.00	-1.83	Average
2 q 5149.980	18.83	33.90	31.28	31.23	52.68	54.00	-1.32	Average
3 5170.000	18.86	33.94	31.29	63.19	84.70	-----	-----	Average



Test Mode: 58; Polarity: Horizontal; Modulation: 802.11be(26 RUMax)

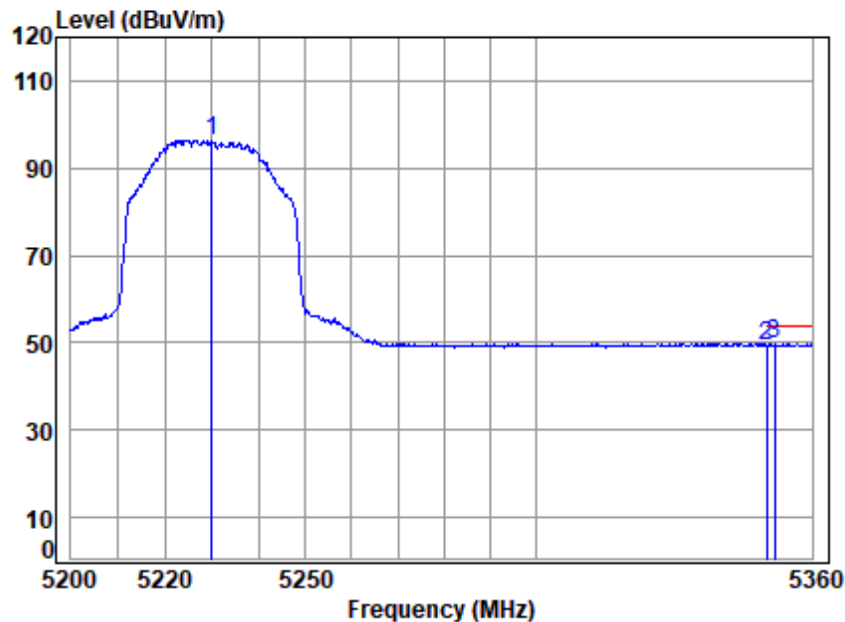


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5230 Band edge  
: 5.1G SRD 40M

		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 p	5230.000	18.95	34.06	31.32	83.98	105.67	68.20	37.47	peak
2	5350.020	19.11	34.40	31.39	38.43	60.55	74.00	-13.45	peak
3	5359.513	19.12	34.44	31.39	39.31	61.48	74.00	-12.52	peak



Test Mode: 58; Polarity: Horizontal; Modulation: 802.11be(26 RUMax)

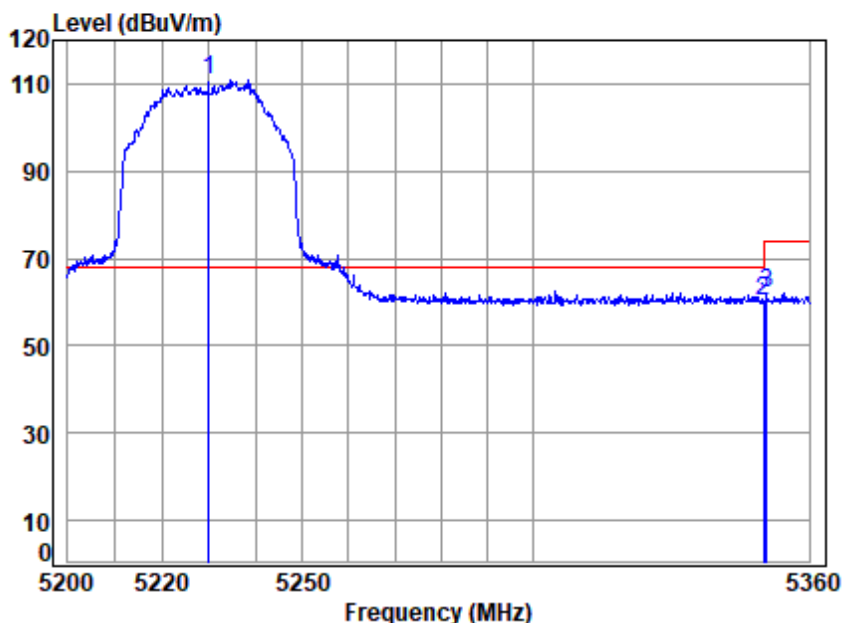


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01578AT  
Mode : 5230 Band edge  
: 5.1G SRD 40M

		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	18.95	34.06	31.32	74.75	96.44	-----	----- Average
2	5350.020	19.11	34.40	31.39	27.34	49.46	54.00	-4.54 Average
3 q	5351.884	19.11	34.41	31.39	27.52	49.65	54.00	-4.35 Average



Test Mode: 58; Polarity: Vertical; Modulation: 802.11b(26 RUMax)



Site : chamber

Condition: 3m VERTICAL

Job No : 01578AT

Mode : 5230 Band edge

: 5.1G SRD 40M

		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 p	5230.000	18.95	34.06	31.32	89.19	110.88	68.20	42.68 Peak
2	5350.020	19.11	34.40	31.39	38.22	60.34	74.00	-13.66 Peak
3	5350.749	19.11	34.40	31.39	39.73	61.85	74.00	-12.15 Peak

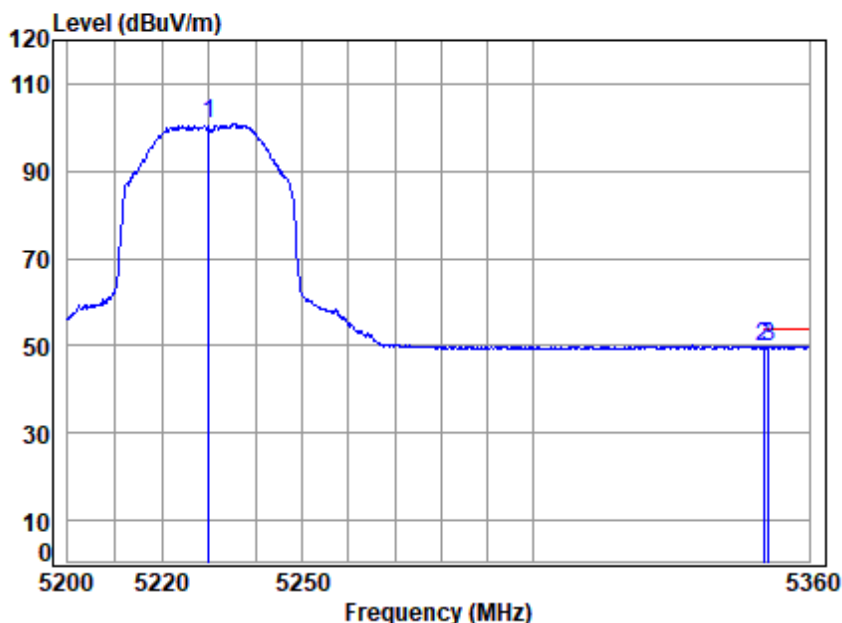


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Test Mode: 58; Polarity: Vertical; Modulation: 802.11be(26 RUMax)



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01578AT  
Mode : 5230 Band edge  
: 5.1G SRD 40M

		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	18.95	34.06	31.32	79.10	100.79	-----	----- Average
2	5350.020	19.11	34.40	31.39	27.48	49.60	54.00	-4.40 Average
3 q	5351.235	19.11	34.40	31.39	27.79	49.91	54.00	-4.09 Average



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### 7.6 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2

Test Method: ANSI C63.10 (2013) Section 12.2

#### 7.6.1 E.U.T. Operation

Operating Environment:

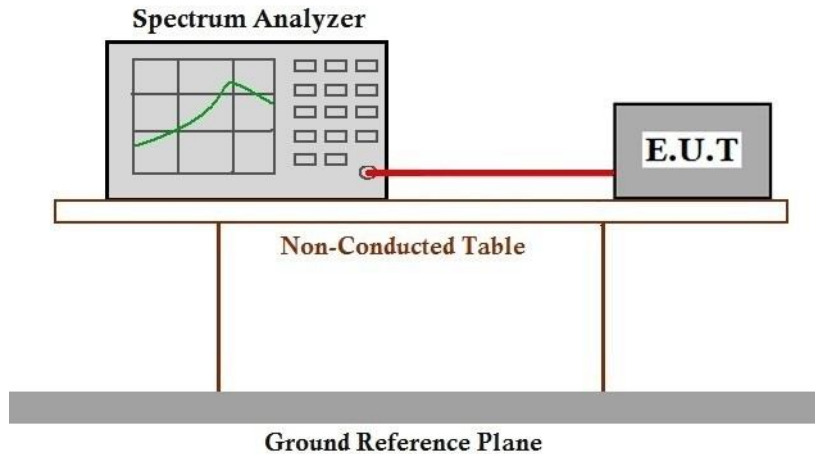
Temperature: 20.9 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.7 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2013) Section 12.4.2

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar

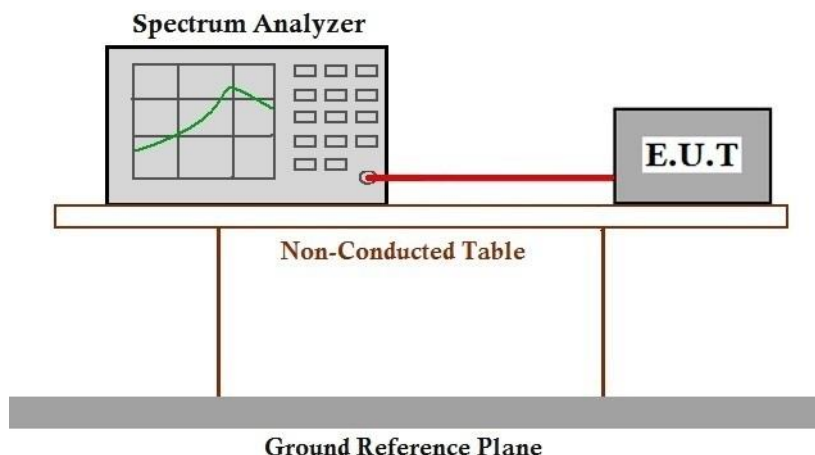
### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter





### 7.7.3 Test Setup Diagram



### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



### 7.8 26dB Emission bandwidth

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

Test Method: ANSI C63.10 (2013) Section 12.4.1

#### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C

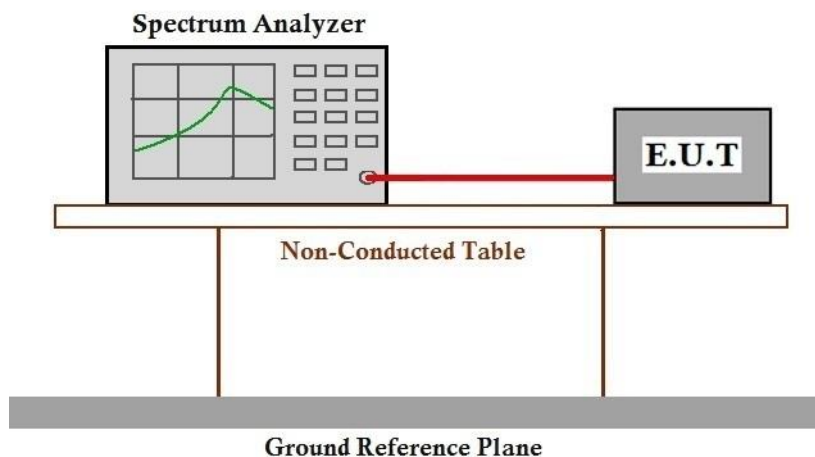
Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

#### 7.8.3 Test Setup Diagram



#### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



## 7.9 Minimum 6 dB bandwidth (5.725-5.85 GHz band )

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

Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

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

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C

Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

### 7.9.2 Test Mode Description

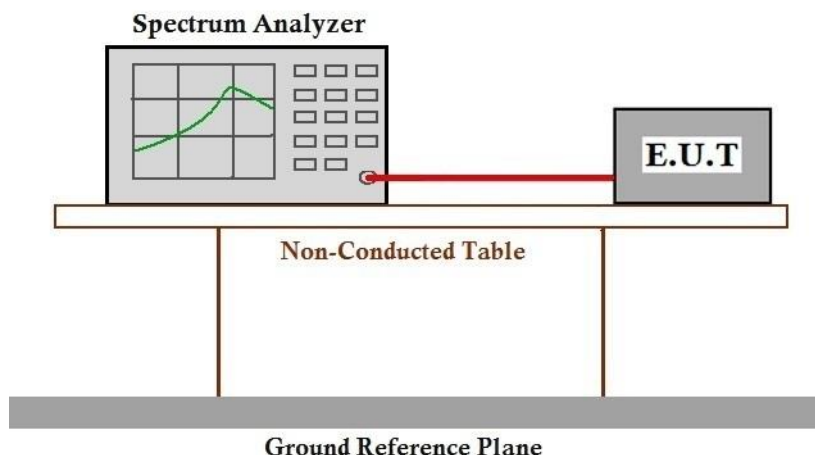
Pre-scan / Final test	Mode Code	Description
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



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### 7.9.3 Test Setup Diagram



### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details





### 7.10 Peak Power spectrum density

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

Test Method: ANSI C63.10 (2013) Section 12.5

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.

#### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C

Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

#### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and



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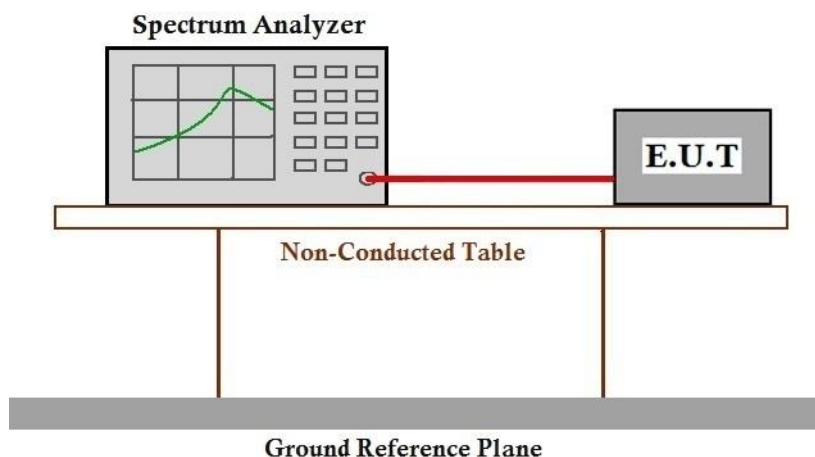
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		charged by adapter
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

### 7.10.3 Test Setup Diagram



### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

### 7.11 Frequency Stability

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

Test Method: ANSI C63.10 (2013) Section 6.8

#### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.11.2 Test Mode Description

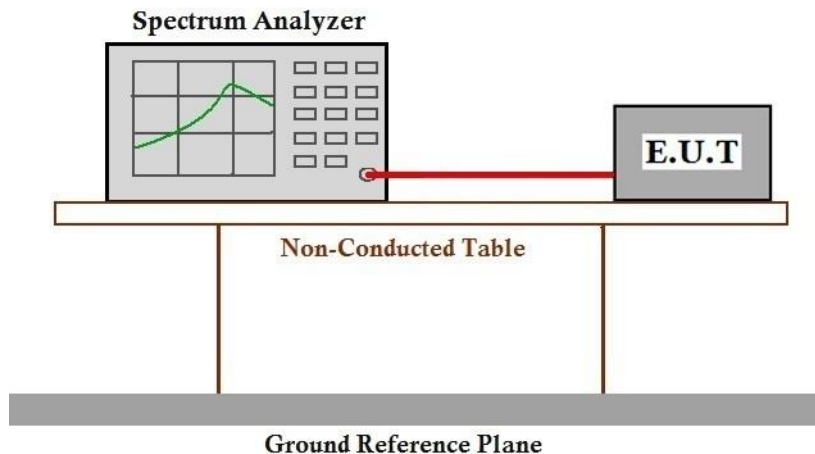
Pre-scan / Final test	Mode Code	Description
Final test	43	TX mode (5.8G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	44	TX mode (5.8G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	45	TX mode (5.8G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	46	TX mode (5.8G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	47	TX mode (5.8G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	48	TX mode (5.8G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	49	TX mode (5.8G SDR_60MHz)_Keep the EUT in transmitting mode
Final test	50	TX mode (5.8G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	51	TX mode (5.8G SDR_80MHz)_Keep the EUT in transmitting mode
Final test	52	TX mode (5.8G SDR_80MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	53	TX mode (5.1G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	54	TX mode (5.1G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	55	TX mode (5.1G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	56	TX mode (5.1G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	57	TX mode (5.1G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	58	TX mode (5.1G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



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### 7.11.3 Test Setup Diagram



### 7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2504001578AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix\_Photographs of EUT Constructional Details for SZCR2504001578AT



## 10 Appendix

For 5.8G:

### 1. Duty Cycle

#### 1.1 Test Result

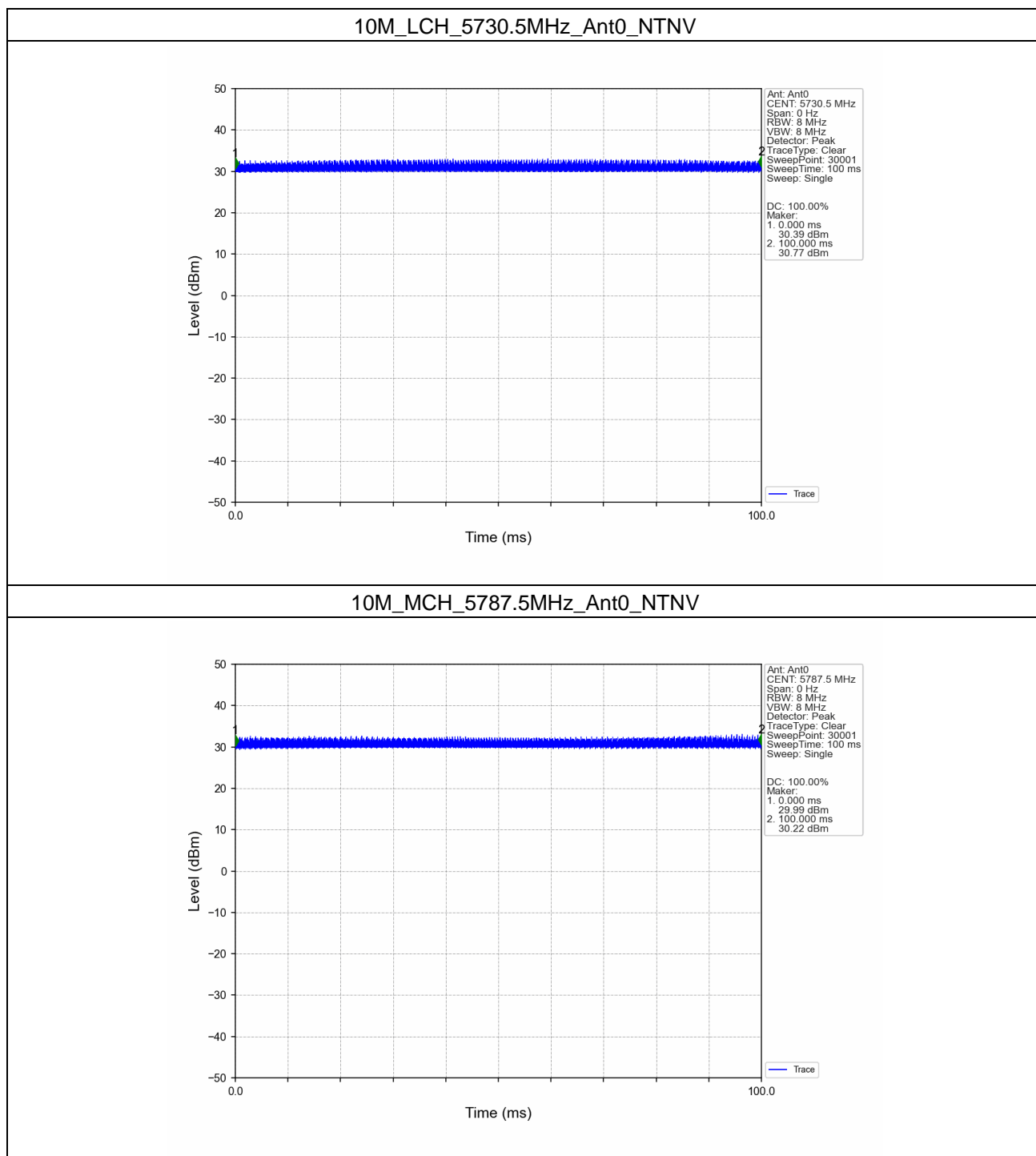
##### 1.1.1 Ant0

Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
10M	SISO	5730.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5844.5	100.000	100.000	100.00	0.00	0.00
20M	SISO	5735.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5839.5	100.000	100.000	100.00	0.00	0.00
40M	SISO	5745.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5829.5	100.000	100.000	100.00	0.00	0.00
60M	SISO	5755.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5819.5	100.000	100.000	100.00	0.00	0.00
80M	SISO	5765.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5809.5	100.000	100.000	100.00	0.00	0.00

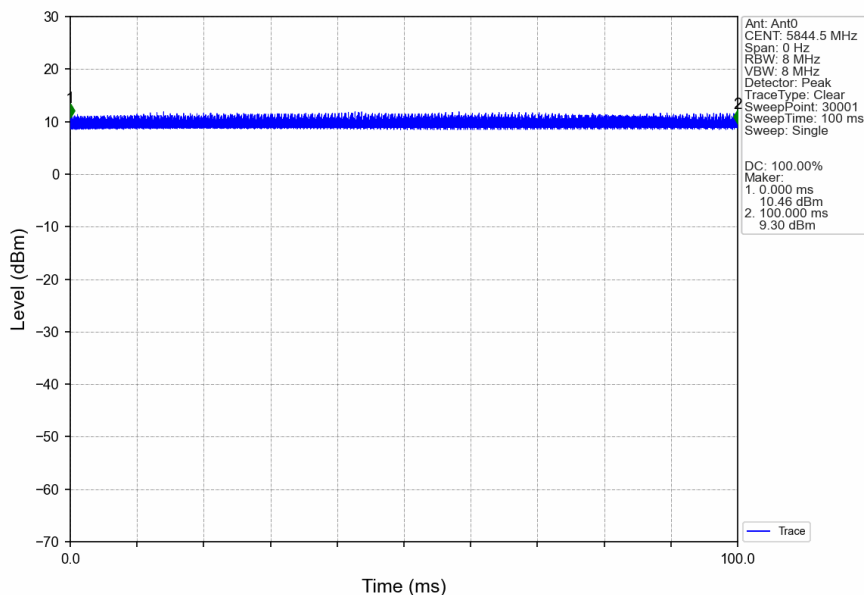


### 1.2 Test Graph

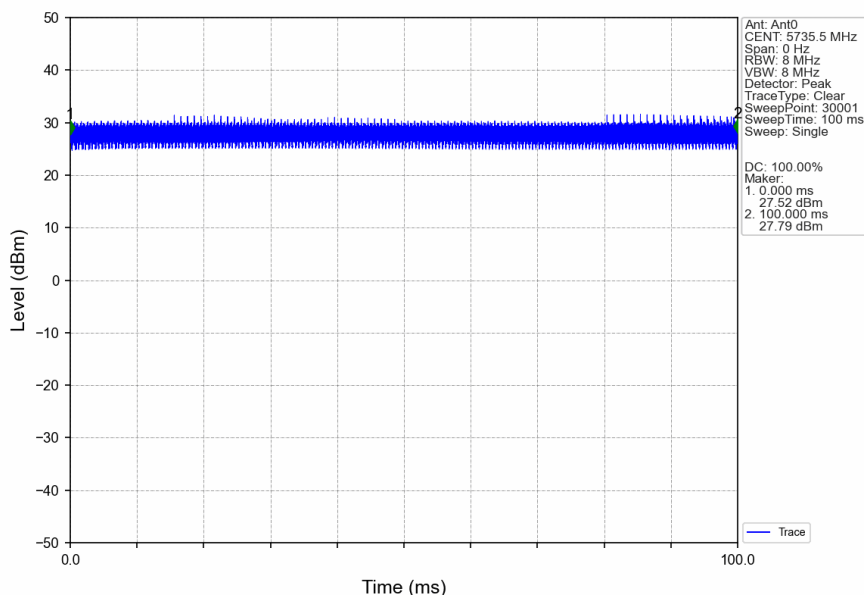
#### 1.2.1 Ant0



10M\_HCH\_5844.5MHz\_Ant0\_NTNV

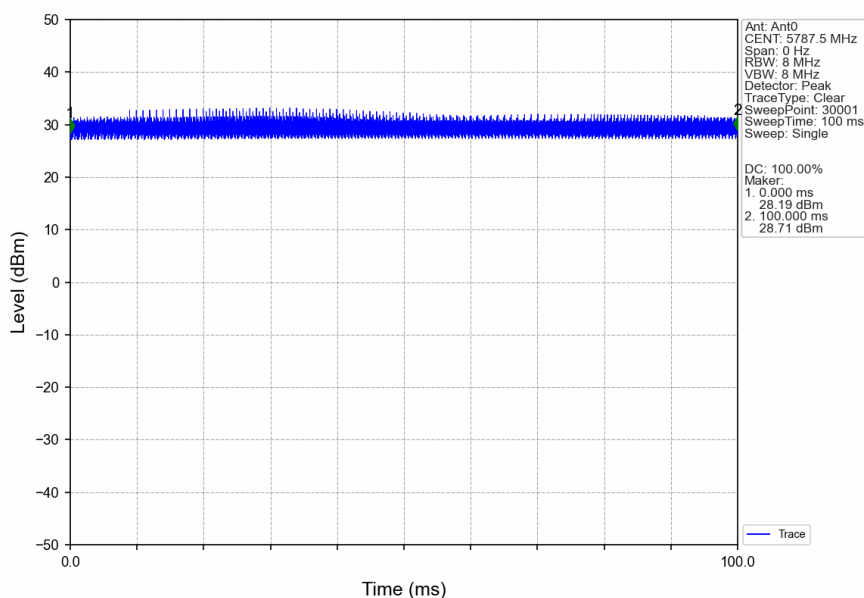


20M\_LCH\_5735.5MHz\_Ant0\_NTNV

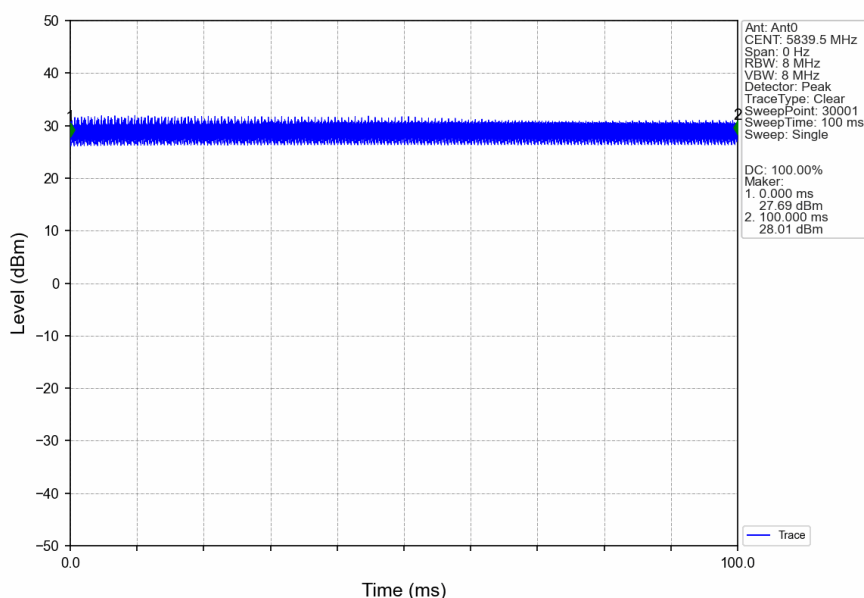




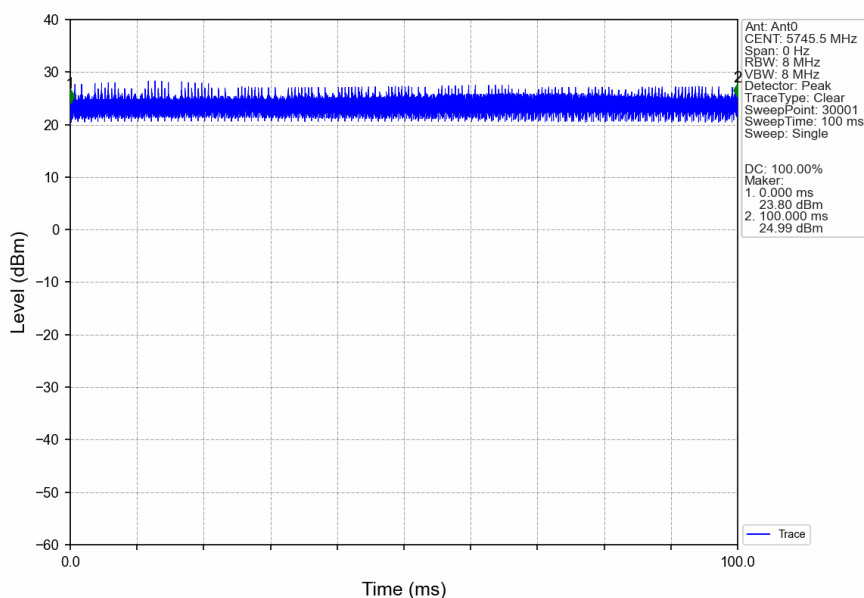
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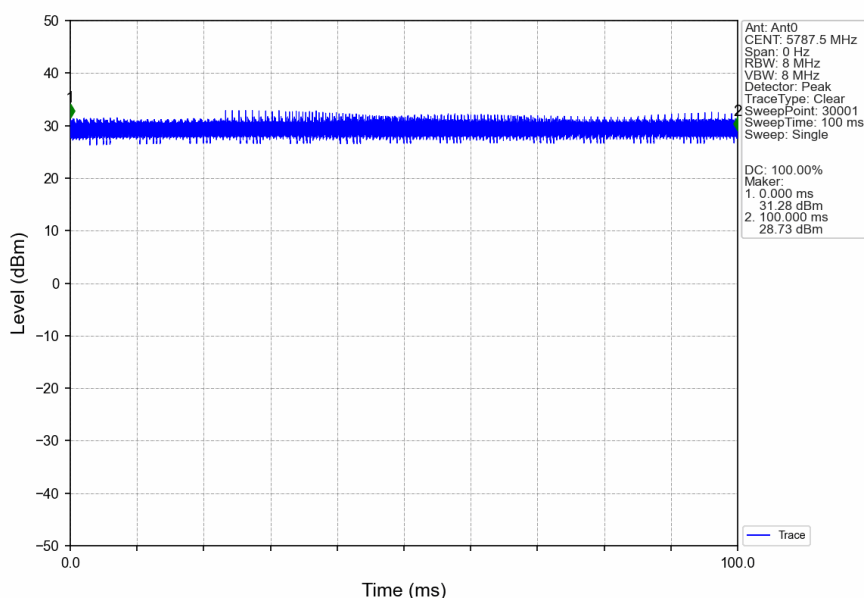
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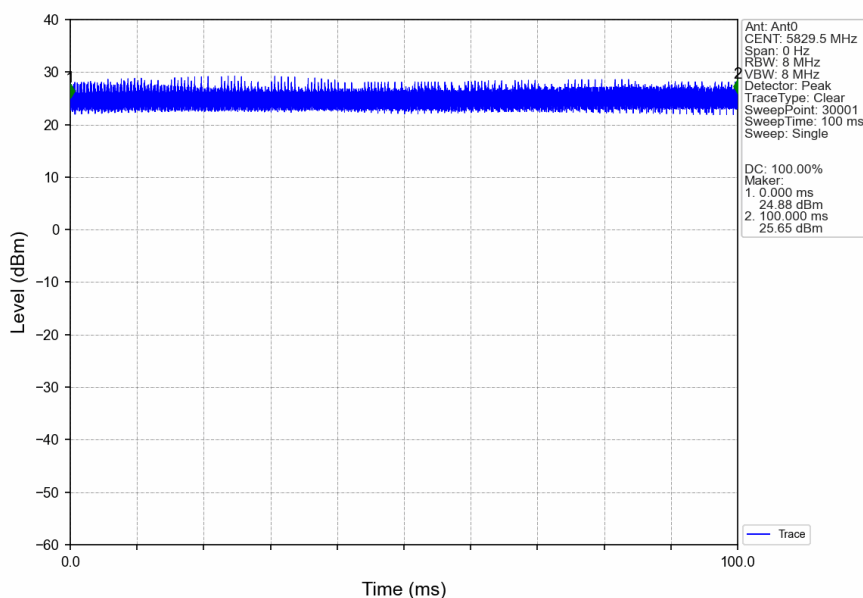
40M\_LCH\_5745.5MHz\_Ant0\_NTNV



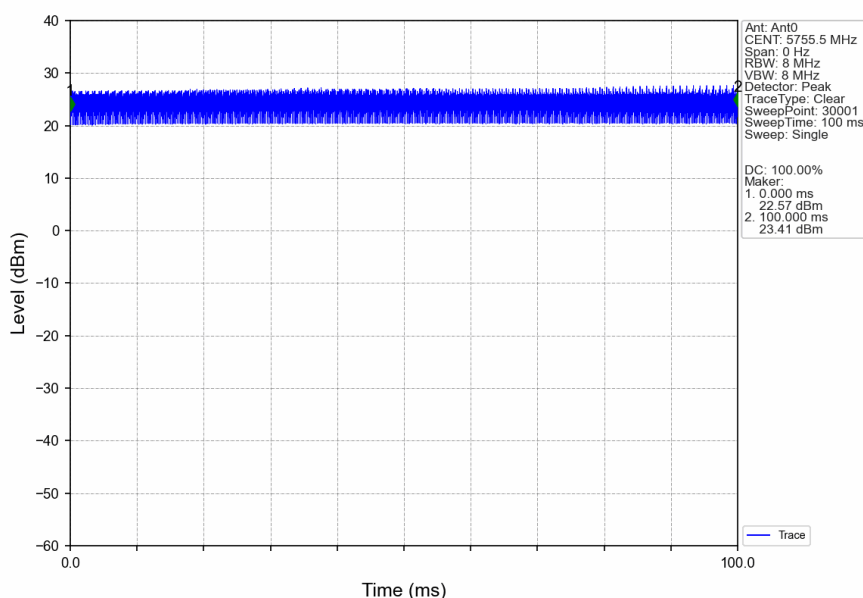
40M\_MCH\_5787.5MHz\_Ant0\_NTNV



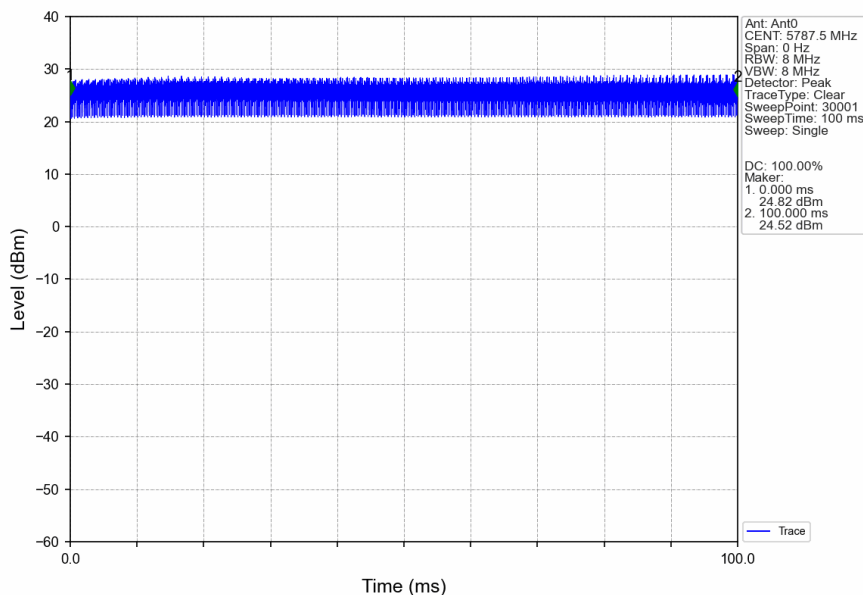
### 40M\_HCH\_5829.5MHz\_Ant0\_NTNV



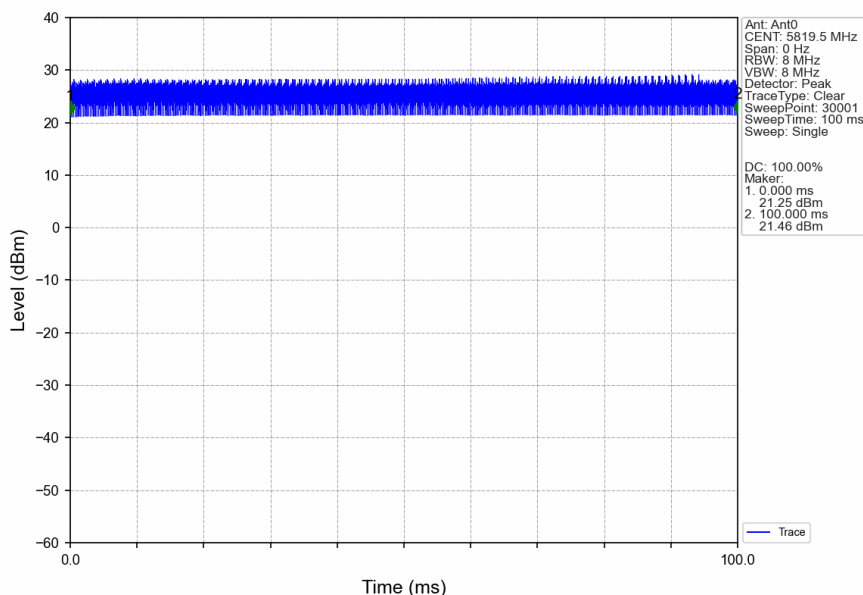
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60M\_MCH\_5787.5MHz\_Ant0\_NTNV

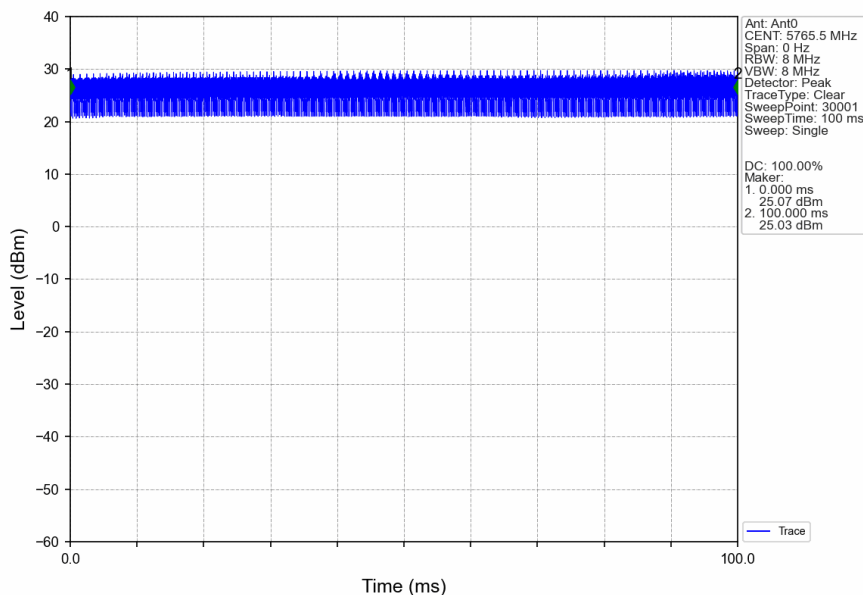


60M\_HCH\_5819.5MHz\_Ant0\_NTNV

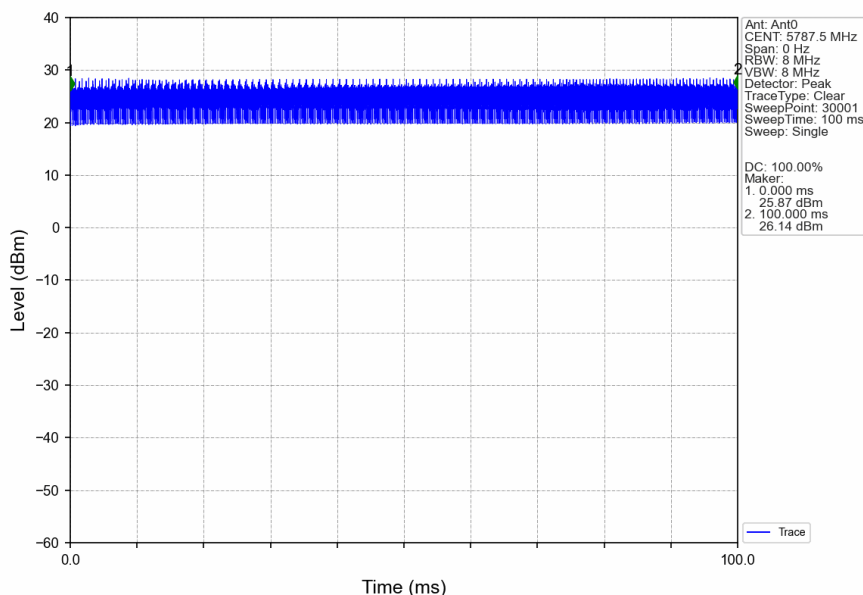


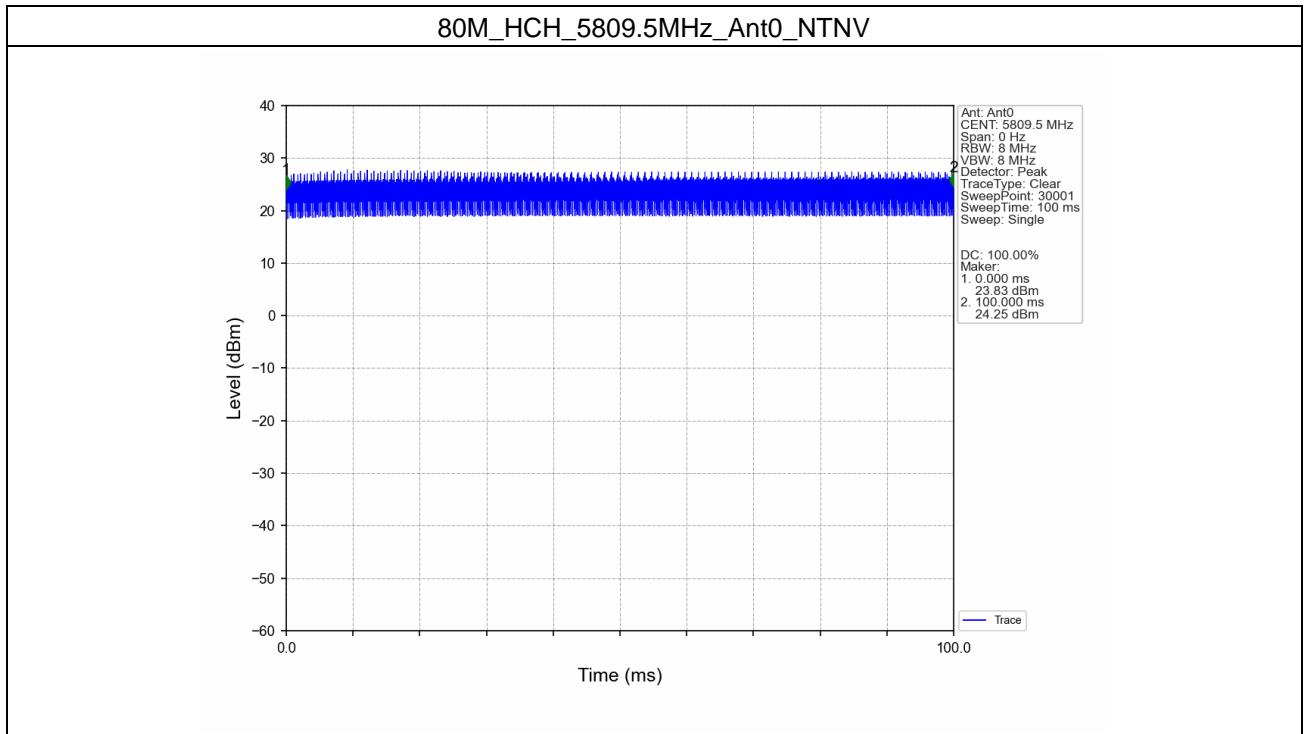


80M\_LCH\_5765.5MHz\_Ant0\_NTNV



80M\_MCH\_5787.5MHz\_Ant0\_NTNV





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## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
10M	SISO	5730.5	0	14.802	/	Pass
		5787.5	0	9.320	/	Pass
		5844.5	0	12.166	/	Pass
20M	SISO	5735.5	0	17.939	/	Pass
		5787.5	0	18.282	/	Pass
		5839.5	0	18.132	/	Pass
40M	SISO	5745.5	0	31.799	/	Pass
		5787.5	0	49.796	/	Pass
		5829.5	0	32.011	/	Pass
60M	SISO	5755.5	0	54.050	/	Pass
		5787.5	0	64.560	/	Pass
		5819.5	0	65.752	/	Pass
80M	SISO	5765.5	0	77.279	/	Pass
		5787.5	0	63.971	/	Pass
		5809.5	0	63.674	/	Pass

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## 2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
10M	SISO	5730.5	0	9.052	$\geq 0.5$	Pass
		5787.5	0	9.054	$\geq 0.5$	Pass
		5844.5	0	9.046	$\geq 0.5$	Pass
20M	SISO	5735.5	0	17.918	$\geq 0.5$	Pass
		5787.5	0	17.823	$\geq 0.5$	Pass
		5839.5	0	17.886	$\geq 0.5$	Pass
40M	SISO	5745.5	0	22.301	$\geq 0.5$	Pass
		5787.5	0	20.837	$\geq 0.5$	Pass
		5829.5	0	21.784	$\geq 0.5$	Pass
60M	SISO	5755.5	0	41.207	$\geq 0.5$	Pass
		5787.5	0	44.301	$\geq 0.5$	Pass
		5819.5	0	42.625	$\geq 0.5$	Pass
80M	SISO	5765.5	0	38.344	$\geq 0.5$	Pass
		5787.5	0	38.533	$\geq 0.5$	Pass
		5809.5	0	40.790	$\geq 0.5$	Pass



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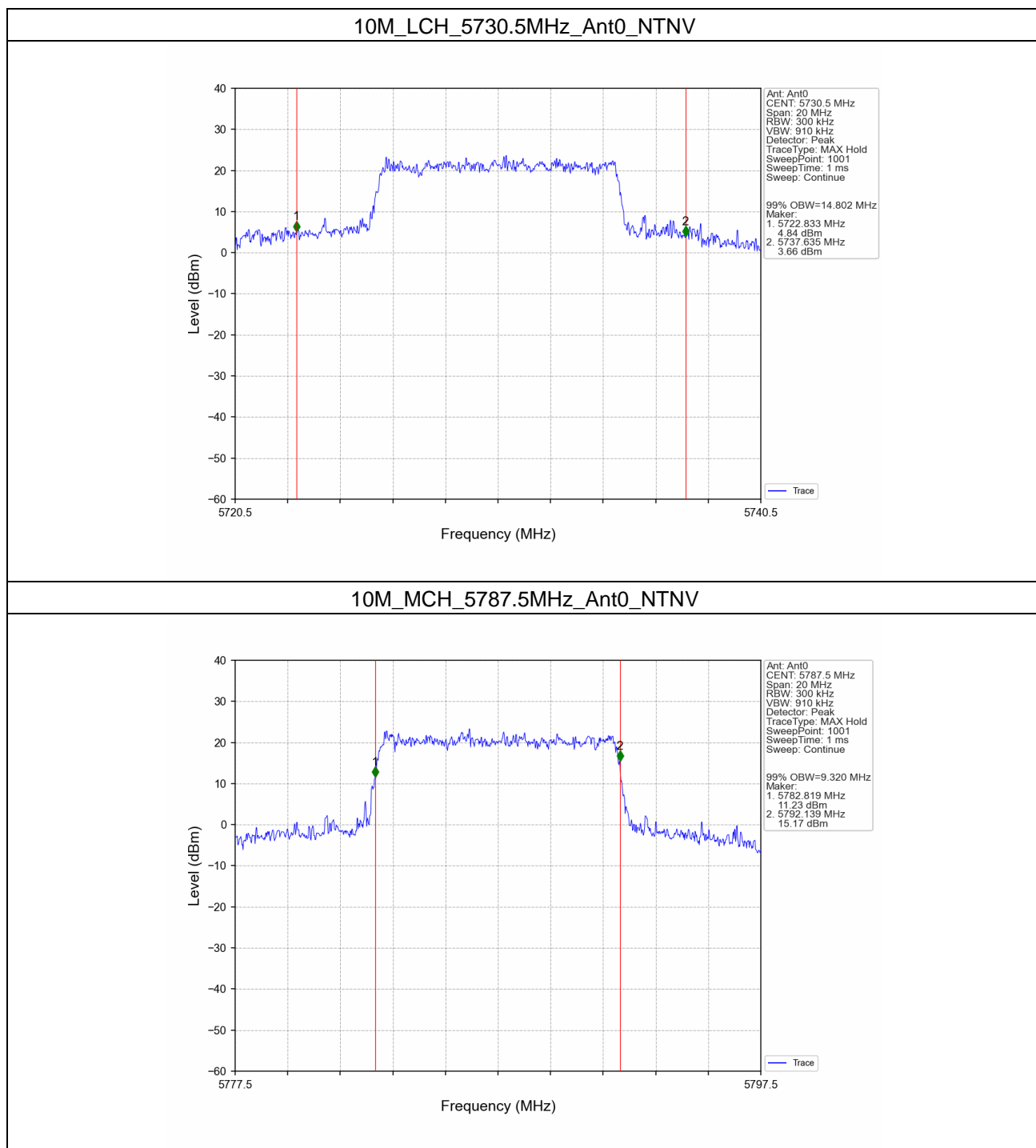
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## 2.2 Test Graph

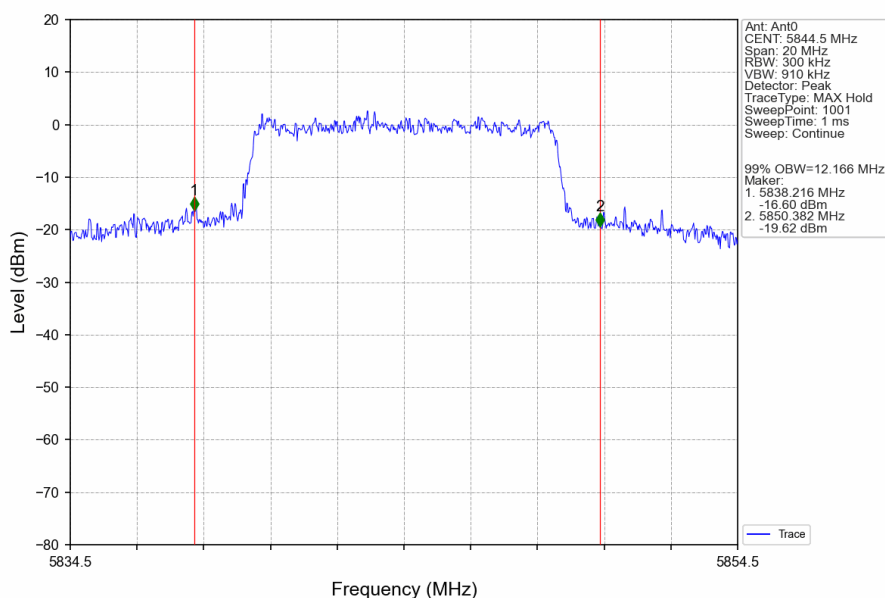
### 2.2.1 OBW



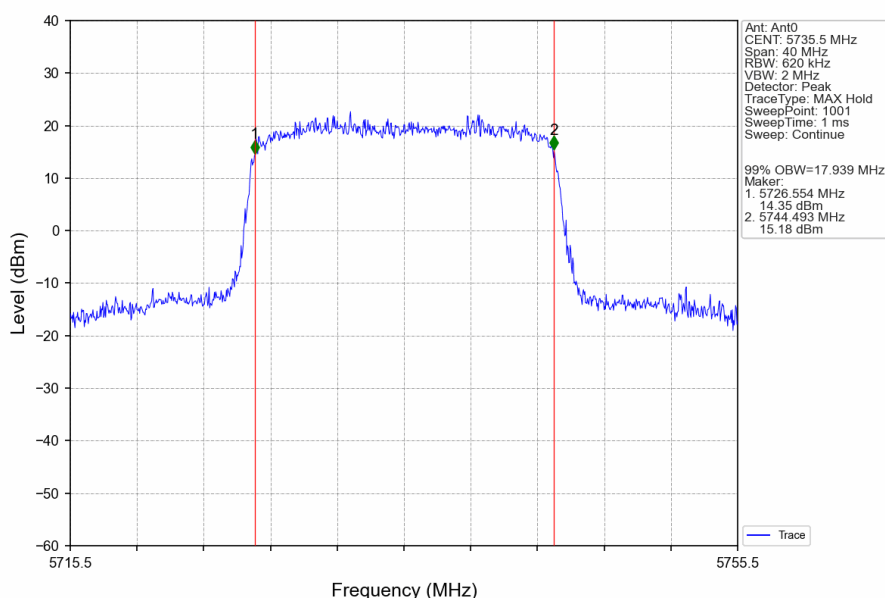
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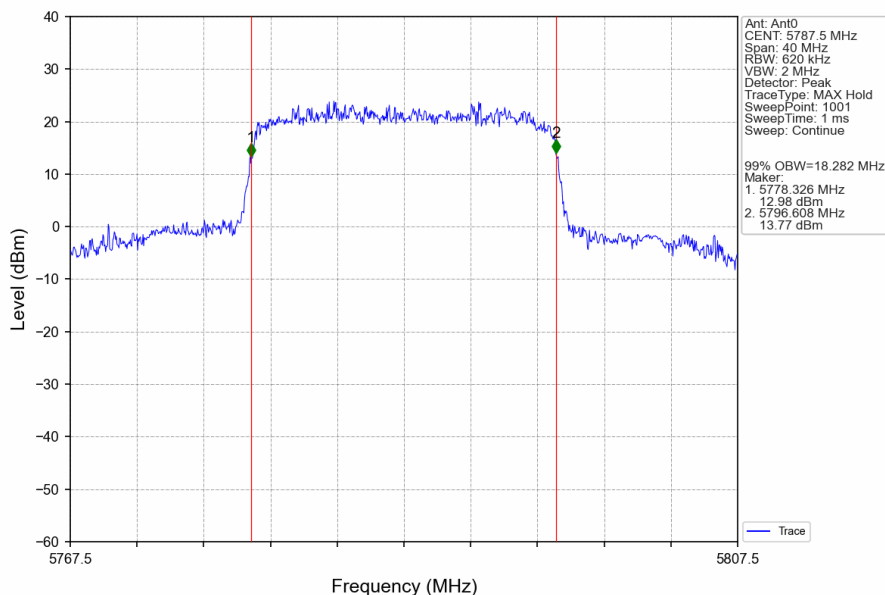
### 10M\_HCH\_5844.5MHz\_Ant0\_NTNV



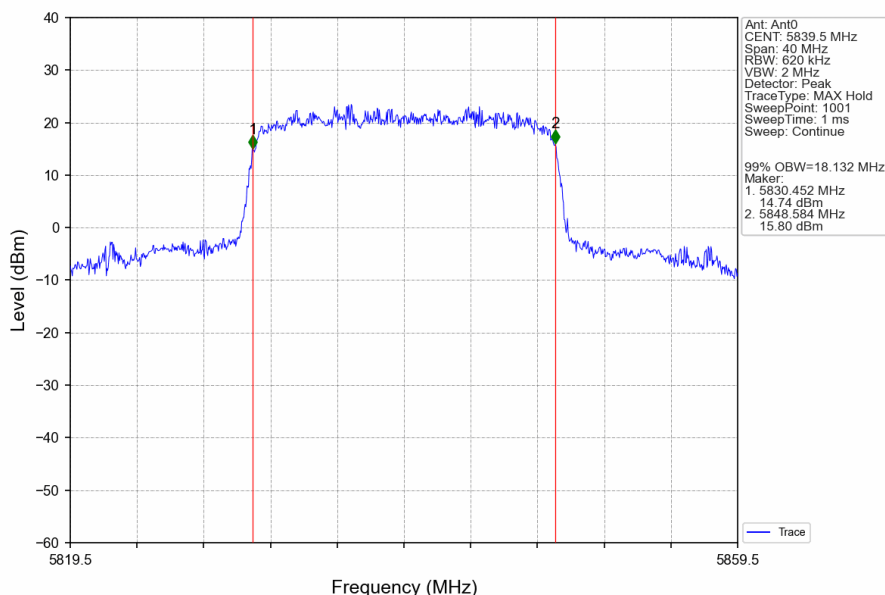
### 20M\_LCH\_5735.5MHz\_Ant0\_NTNV



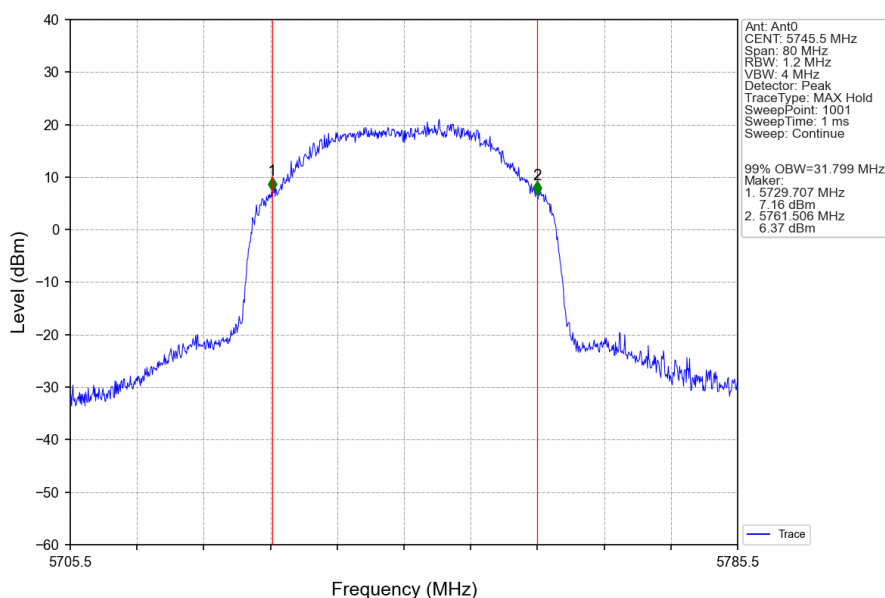
### 20M\_MCH\_5787.5MHz\_Ant0\_NTNV



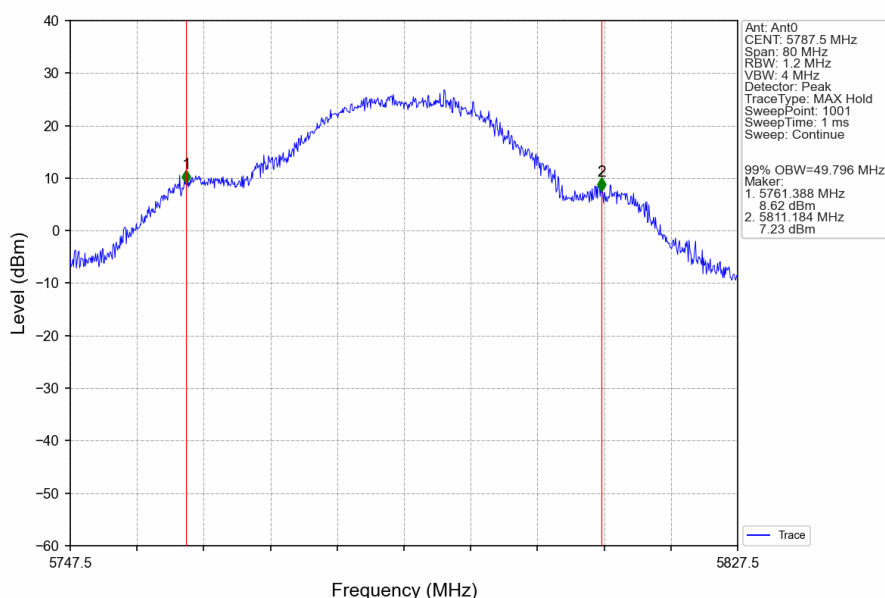
### 20M\_HCH\_5839.5MHz\_Ant0\_NTNV



### 40M\_LCH\_5745.5MHz\_Ant0\_NTNV

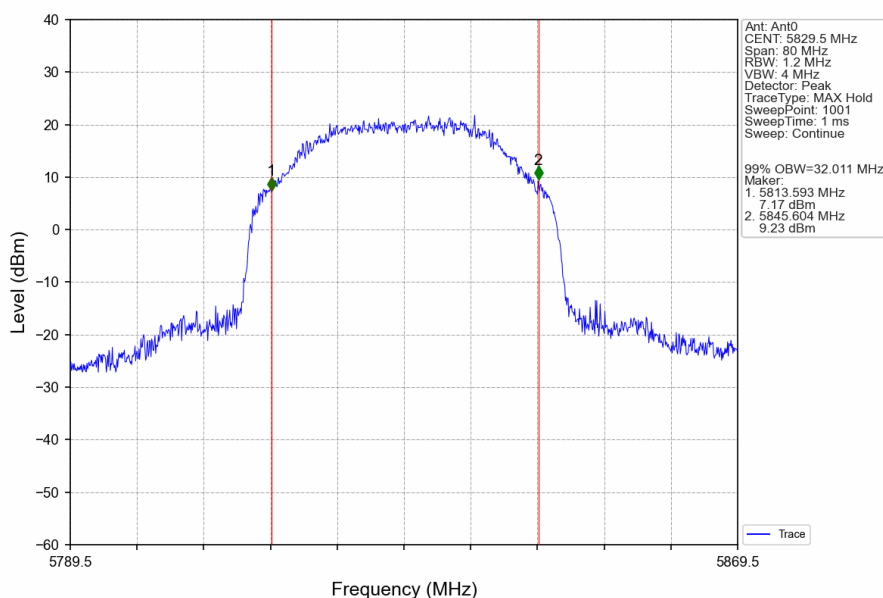


### 40M\_MCH\_5787.5MHz\_Ant0\_NTNV

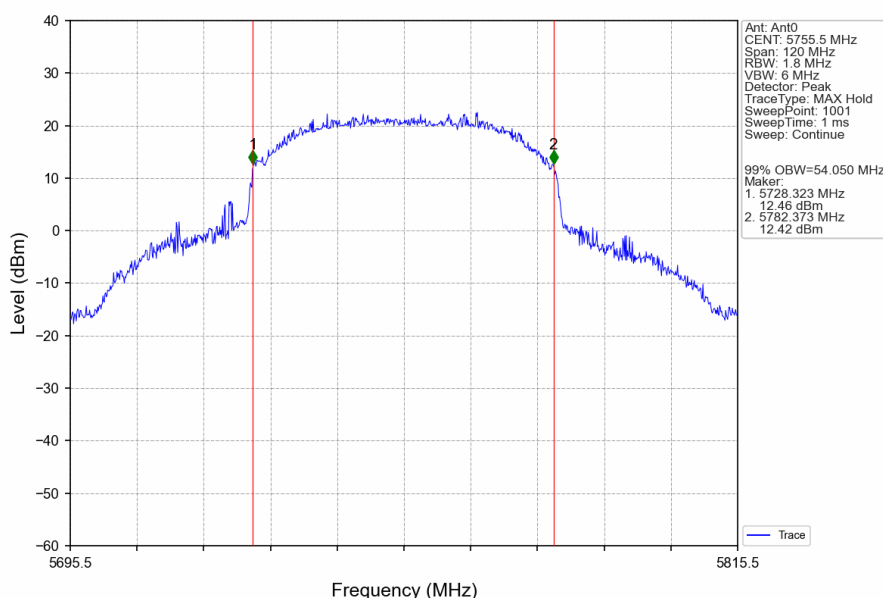




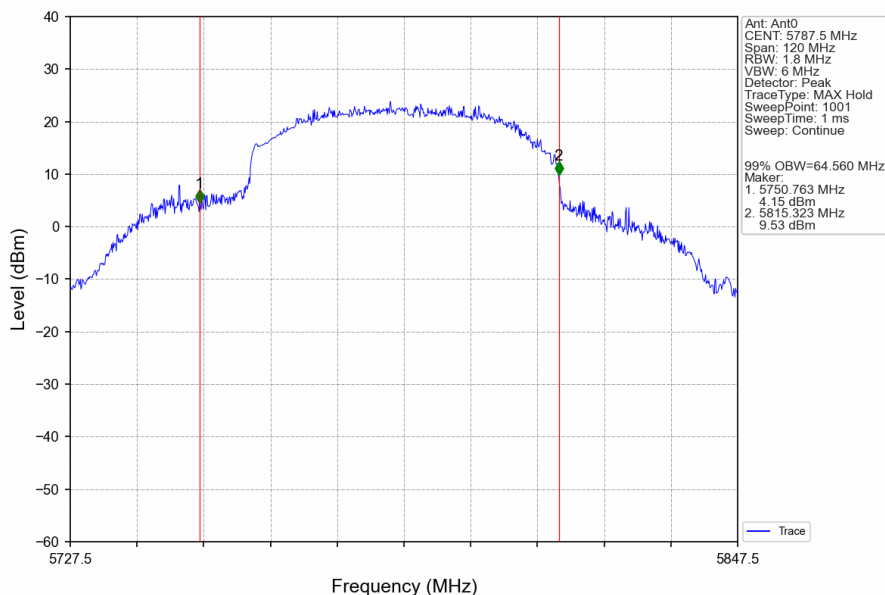
### 40M\_HCH\_5829.5MHz\_Ant0\_NTNV



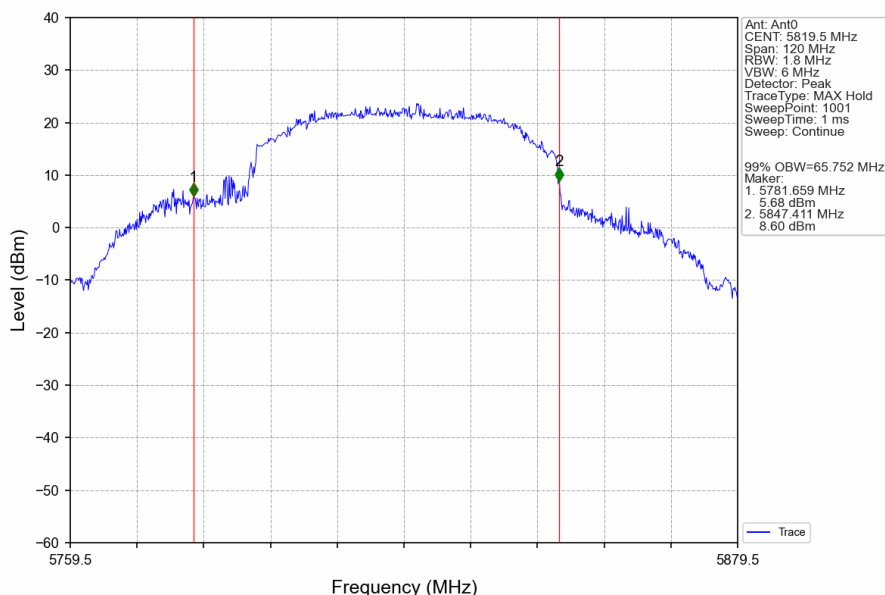
### 60M\_LCH\_5755.5MHz\_Ant0\_NTNV



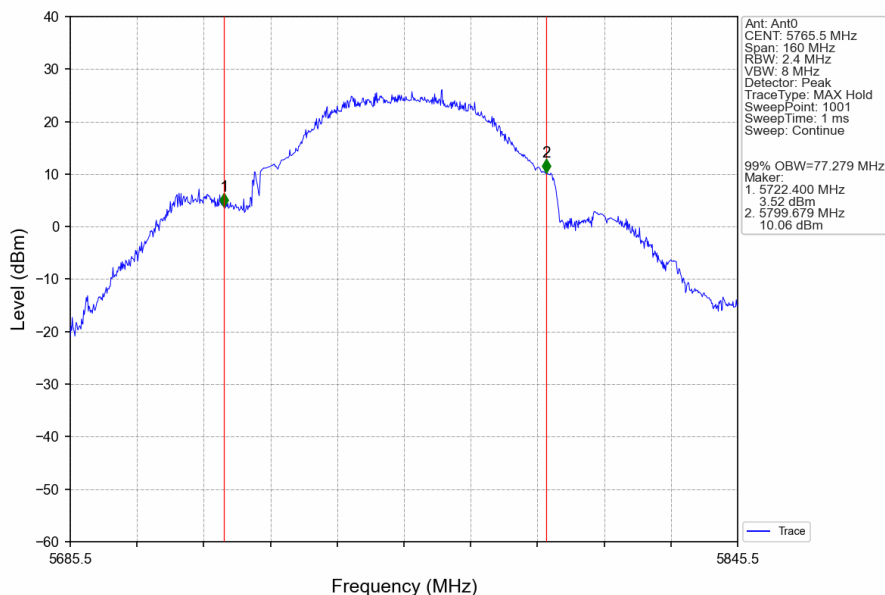
### 60M\_MCH\_5787.5MHz\_Ant0\_NTNV



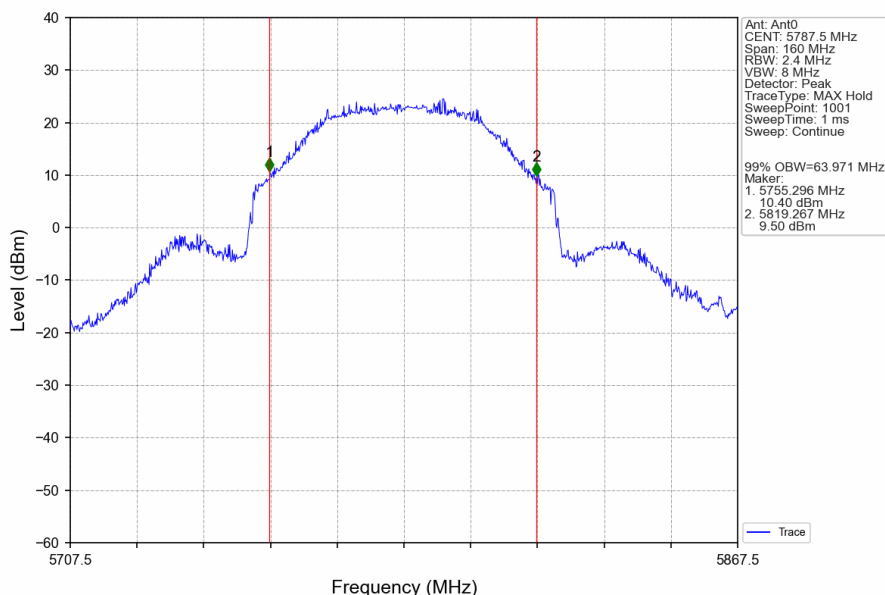
### 60M\_HCH\_5819.5MHz\_Ant0\_NTNV



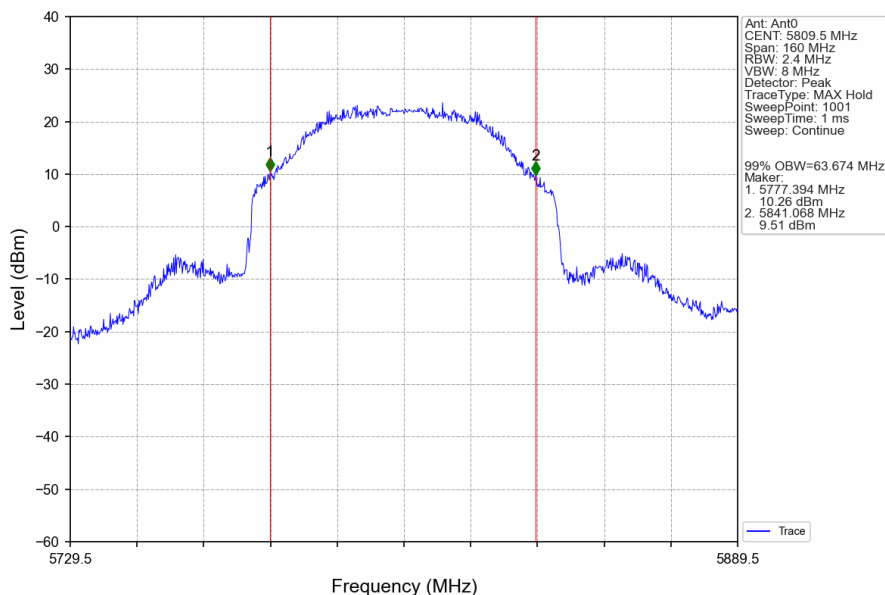
80M\_LCH\_5765.5MHz\_Ant0\_NTNV



80M\_MCH\_5787.5MHz\_Ant0\_NTNV



80M\_HCH\_5809.5MHz\_Ant0\_NTNV



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### 2.2.2 6dB BW

