

TEST REPORT

Application No.: SZCR2505002123WM
Applicant: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address of Applicant: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Manufacturer: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address of Manufacturer: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Equipment Under Test (EUT):
EUT Name: Mobile Phone
Model No.: RMX5106
Trade Mark: realme
FCC ID: 2AUYFRMX5106
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-05-23
Date of Test: 2025-05-31 to 2025-06-24
Date of Issue: 2025-07-03

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-07-03		Original

Authorized for issue by:				
		Sherlock Fang		
		Sherlock Fang/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
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	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
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass



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4 General Information

4.1 Details of E.U.T.

EUT Description:	Mobile Phone	
Model No.:	RMX5106	
Trade Mark:	realme	
Hardware Version:	11	
Software Version:	realme UI 6.0	
Power Supply:	DC 3.92V from internal rechargeable battery which can be charge by AC/DC adapter	
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
	802.11ax:	20 MHz / 40 MHz / 80 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)/ax(HE20)
	40MHz:	802.11n(HT40)/ac(VHT40)/ax(HE40)
	80MHz:	802.11ac(VHT80)/ax(HE80)
Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	5150MHz to 5250MHz: 0.6dBi(Ant9); 5250MHz to 5350MHz: 1.2dBi(Ant9); 5470MHz to 5725MHz: 2.63dBi(Ant9); 5725MHz to 5850MHz: 2.4dBi(Ant9);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	☒ SISO	802.11a/n/ac/ax
	☐ MIMO	CDD: 802.11a/n/ac/ax: Tx & Rx
		STBC: 802.11n/ac/ax: Tx & Rx

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	TXBF: 802.11n/ac/ax: Tx & Rx	
	☐ Diversity	802.11a: Tx & Rx
TPC Function:	☐ Support, ☒ Not Support	
DFS Function:	☐ Master	
	☐ Slave with radar detection	☒ Slave without radar detection
RF Cable:	4900MHz ~ 5250MHz(1.6dB)	5250MHz ~ 5350MHz(1.7dB)
	5470MHz ~ 5725MHz(1.8dB)	5725MHz ~ 5850MHz (2dB)
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4.2 Environment Parameter

Environment Parameter	1020 mbar Selected Values During Tests	
Relative Humidity	39.6-50.9 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	21.2~24.5	3.92
Note: NV:Normal Voltage LV:Low Extreme Test Voltage HV:High Extreme Test Voltage NT:Normal Temperature LT:Low Extreme Test Temperature HT:High Extreme Test Temperature		



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4.3 Description of Support Units

Description	Manufacturer	Model No.	FCC ID
Router	NETGEAR	R7800	PY315100319

4.4 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_{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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4.5 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.

4.6 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (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.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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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

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
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-	2025-01-06	2028-01-05



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			063		
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-01-07	2026-01-06
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

Channel Move Time

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2025-03-03	2026-03-02
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2025-03-03	2026-03-02
Measurement Software	KEYSIGHT	Signal Studio for DFS Radar Profiles V2.2.0.0	N/A	N/A	N/A
Measurement Software	Agilent	ISMonitor10	N/A	N/A	N/A
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2025-03-03	2026-03-02
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2025-03-04	2026-03-03

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-	SEM021-09	2025-03-03	2026-03-02



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		1			
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2025-03-03	2026-03-02
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2025-03-03	2026-03-02
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2025-03-03	2026-03-02
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2025-03-04	2026-03-03

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

15.203 requirement:

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

EUT Antenna:

The antenna is a Fixed Internal Antenna, and the connection port is integrated inside the product, and the antenna cannot be replaced.

5150MHz to 5250MHz: 0.6dBi(Ant9); *

5250MHz to 5350MHz: 1.2dBi(Ant9);*

5470MHz to 5725MHz: 2.63dBi(Ant9);*

5725MHz to 5850MHz: 2.4dBi(Ant9);*

**Note:*

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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



7 Radio Spectrum Matter Test Results

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

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

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

Limit:

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

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C

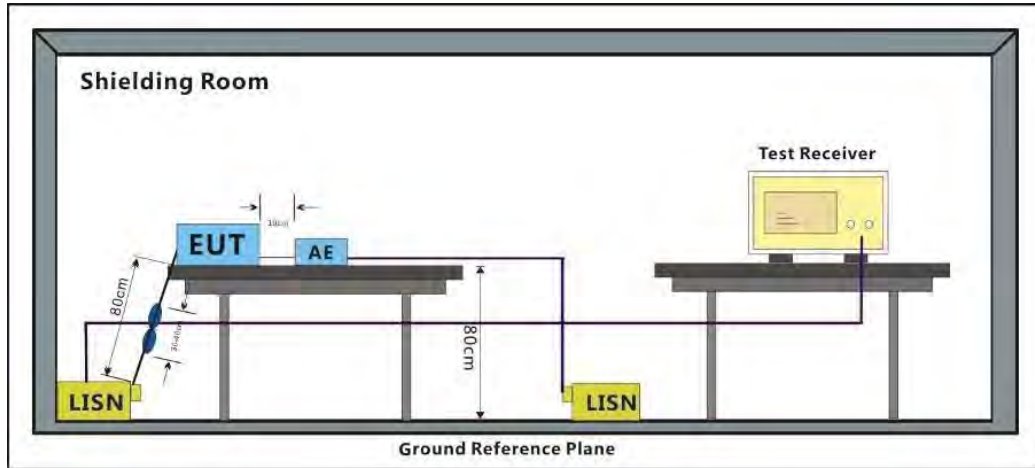
Humidity: 46.9 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



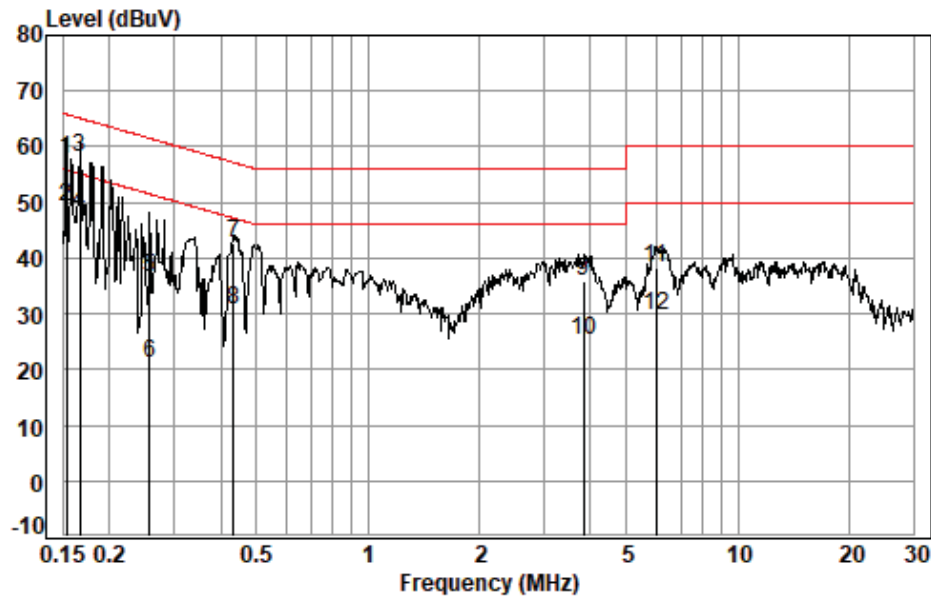
7.1.4 Measurement Procedure and Data

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

Remark 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.

Test Mode: 14; Line: Live line

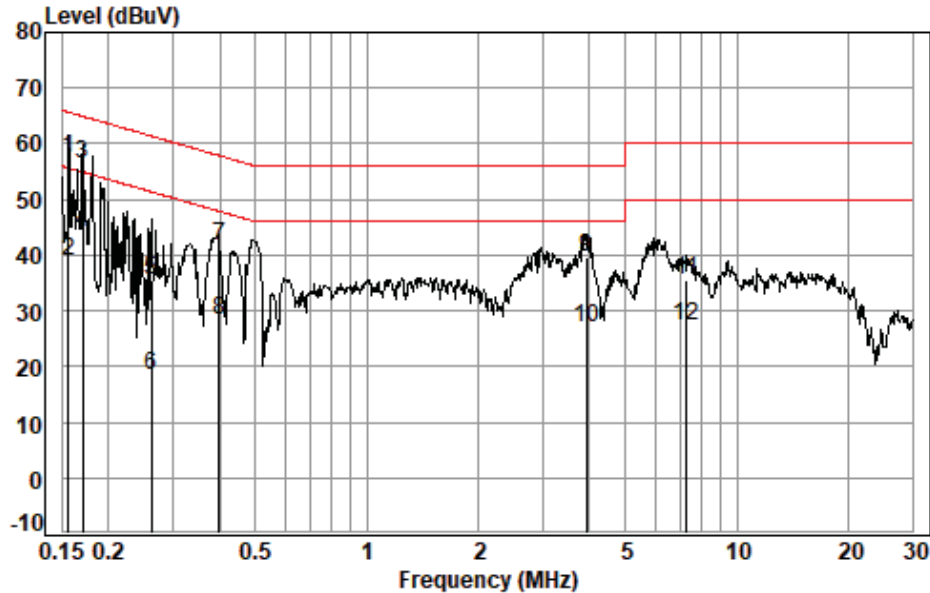


Site : Shielding Room
Condition: Line
Job No. : 02123WM
Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1532	0.06	10.19	47.49	57.74	65.82	-8.08	QP
2 *	0.1532	0.06	10.19	39.03	49.28	55.82	-6.54	Average
3 *	0.1668	0.06	10.17	47.94	58.17	65.12	-6.95	QP
4	0.1668	0.06	10.17	37.83	48.06	55.12	-7.06	Average
5	0.2575	0.07	9.95	26.53	36.55	61.51	-24.96	QP
6	0.2575	0.07	9.95	10.96	20.98	51.51	-30.53	Average
7	0.4328	0.08	9.63	32.91	42.62	57.20	-14.58	QP
8	0.4328	0.08	9.63	20.85	30.56	47.20	-16.64	Average
9	3.8196	0.11	9.65	25.99	35.75	56.00	-20.25	QP
10	3.8196	0.11	9.65	15.40	25.16	46.00	-20.84	Average
11	6.0243	0.14	9.67	28.40	38.21	60.00	-21.79	QP
12	6.0243	0.14	9.67	19.89	29.70	50.00	-20.30	Average



Test Mode: 14; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 02123WM
Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1565	0.06	10.14	47.30	57.50	65.65	-8.15	QP
2	0.1565	0.06	10.14	28.69	38.89	55.65	-16.76	Average
3	0.1703	0.06	10.12	46.24	56.42	64.94	-8.52	QP
4 *	0.1703	0.06	10.12	33.83	44.01	54.94	-10.93	Average
5	0.2616	0.07	9.87	25.66	35.60	61.38	-25.78	QP
6	0.2616	0.07	9.87	8.58	18.52	51.38	-32.86	Average
7	0.3976	0.07	9.74	31.85	41.66	57.90	-16.24	QP
8	0.3976	0.07	9.74	18.40	28.21	47.90	-19.69	Average
9	3.9222	0.12	9.55	29.81	39.48	56.00	-16.52	QP
10	3.9222	0.12	9.55	17.40	27.07	46.00	-18.93	Average
11	7.3290	0.16	9.64	25.70	35.50	60.00	-24.50	QP
12	7.3290	0.16	9.64	17.40	27.20	50.00	-22.80	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:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.



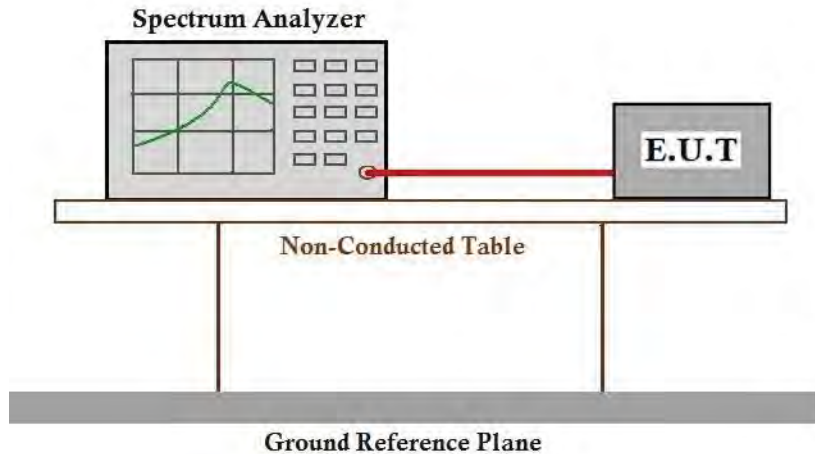
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

$$\text{AV Output power Level} = \text{Reading level} + \text{Cable loss} + \text{DCCF}$$

Please Refer to Appendix for Details

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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: 23.4 °C

Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.



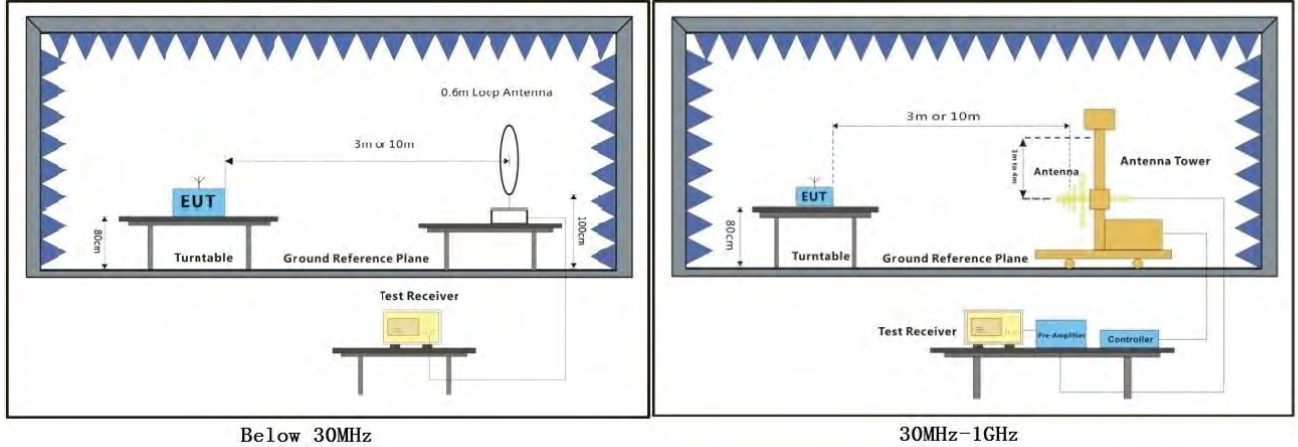
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- 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.



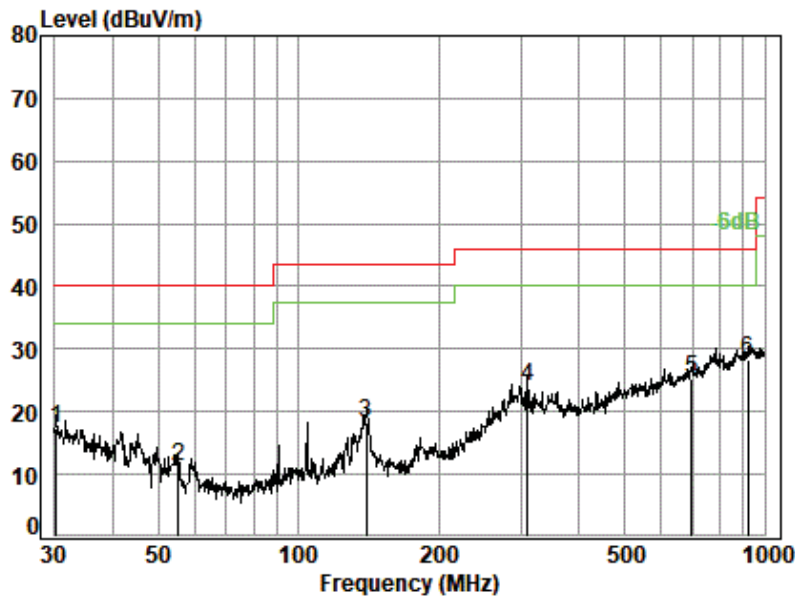
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Test Mode: 17; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 02123WM

		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	30.211	21.10	0.67	27.79	23.40	17.38	40.00	-22.62	QP
2	55.221	11.94	0.91	27.72	26.15	11.28	40.00	-28.72	QP
3	139.851	11.80	1.48	27.42	32.39	18.25	43.50	-25.25	QP
4	309.998	18.41	2.24	26.79	30.03	23.89	46.00	-22.11	QP
5	696.857	25.88	3.53	27.73	23.42	25.10	46.00	-20.90	QP
6 q	919.287	28.17	4.17	26.63	22.61	28.32	46.00	-17.68	QP



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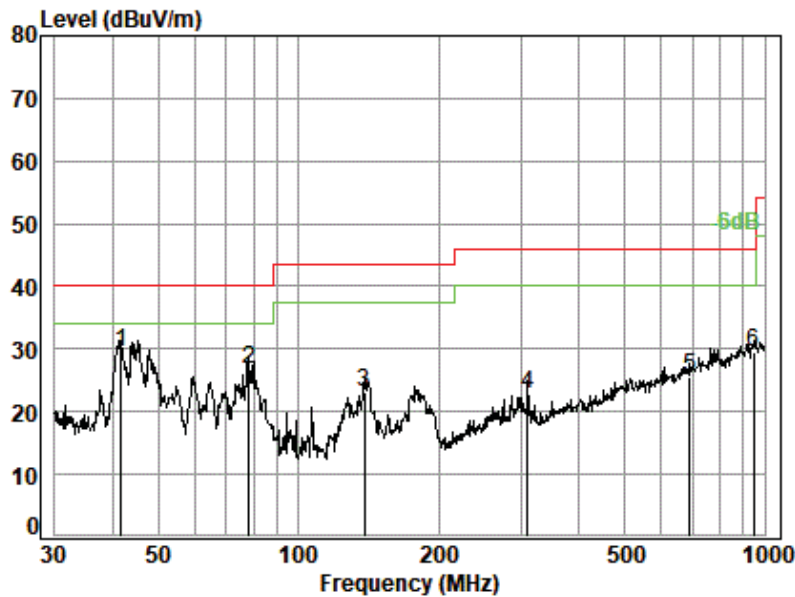
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Test Mode: 17; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 02123WM

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	q	41.713	15.55	0.80	27.76	40.80	29.39	40.00 -10.61 QP
2		78.139	10.39	1.08	27.65	42.83	26.65	40.00 -13.35 QP
3		138.387	11.66	1.47	27.43	37.41	23.11	43.50 -20.39 QP
4		309.998	18.41	2.24	26.79	28.96	22.82	46.00 -23.18 QP
5		691.987	25.74	3.52	27.74	24.08	25.60	46.00 -20.40 QP
6		948.761	28.23	4.25	26.42	23.31	29.37	46.00 -16.63 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: 24.5 °C

Humidity: 50.9 % RH

Atmospheric Pressure: 1020 mbar



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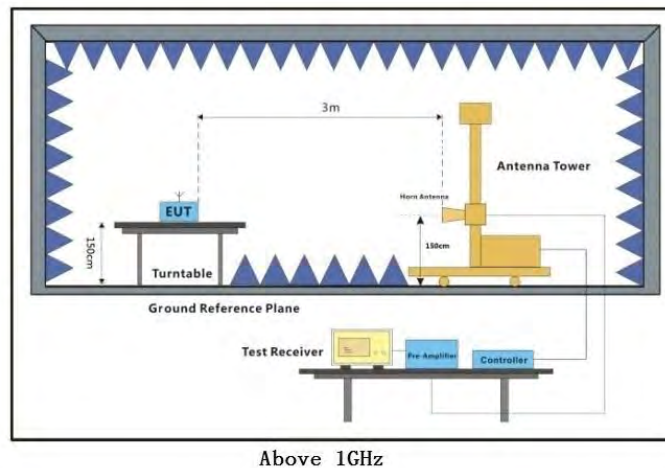
Report No.: SZCR250500212306

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7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

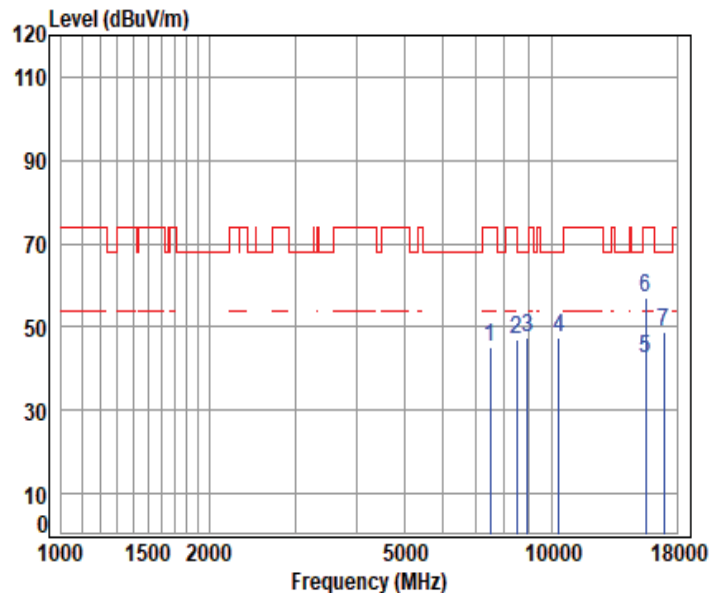
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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.



11a_TX_CH_36_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5180 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7480.987	11.28	36.80	56.32	53.46	45.22	74.00 -28.78 peak
2	8488.119	12.23	38.32	55.46	51.89	46.98	74.00 -27.02 peak
3	8922.510	12.20	38.55	55.07	51.86	47.54	68.20 -20.66 peak
4	10360.000	13.60	39.00	53.88	48.78	47.50	68.20 -20.70 peak
5	pp15540.000	17.00	38.56	54.14	41.06	42.48	54.00 -11.52 Average
6	pk15540.000	17.00	38.56	54.14	55.43	56.85	74.00 -17.15 peak
7	16932.880	18.14	39.63	54.28	45.13	48.62	68.20 -19.58 peak



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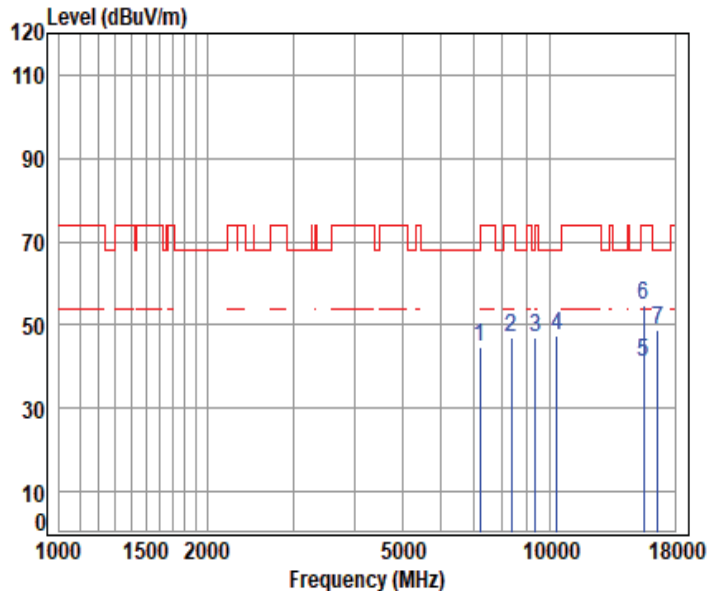
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11a_TX_CH_36_Verical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5180 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7204.297	11.52	36.60	56.54	53.31	44.89	68.20 -23.31 peak
2	8350.908	11.69	38.70	55.58	52.33	47.14	74.00 -26.86 peak
3	9360.045	12.25	38.80	54.68	50.75	47.12	74.00 -26.88 peak
4	10360.000	13.60	39.00	53.88	48.84	47.56	68.20 -20.64 peak
5	pp15540.000	17.00	38.56	54.14	39.43	40.85	54.00 -13.15 Average
6	pk15540.000	17.00	38.56	54.14	53.32	54.74	74.00 -19.26 peak
7	16591.430	17.66	39.17	54.18	46.09	48.74	68.20 -19.46 peak



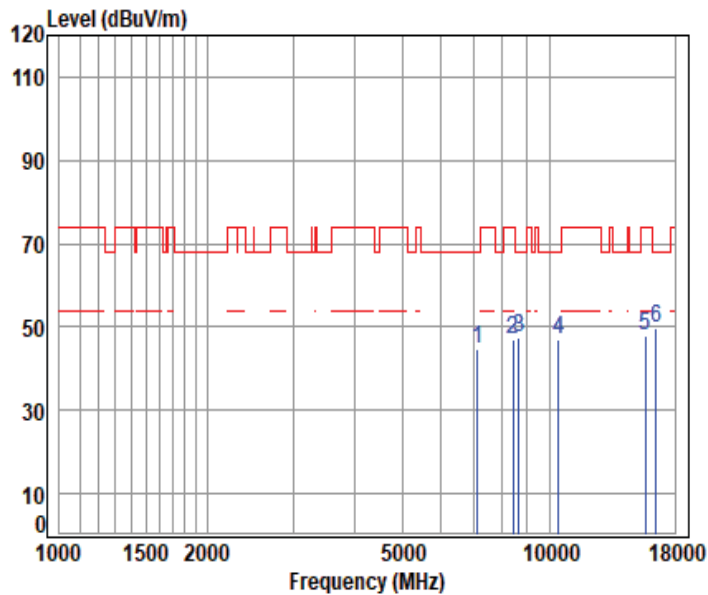
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11a_TX_CH_44_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5220 TX RSE

: 5G Wi-Fi 11a

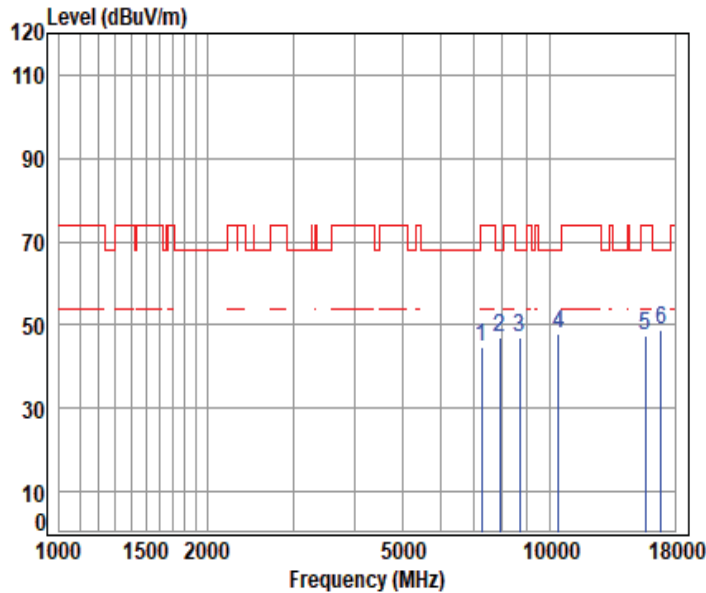
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7116.776	11.91	36.43	56.61	53.12	44.85	68.20 -23.35 peak
2	8427.813	11.82	38.49	55.51	52.28	47.08	74.00 -26.92 peak
3	8662.807	12.04	38.45	55.30	52.08	47.27	68.20 -20.93 peak
4	10440.000	13.63	39.04	53.84	48.34	47.17	68.20 -21.03 peak
5	15660.000	17.23	38.56	54.10	46.17	47.86	74.00 -26.14 peak
6	pp16490.340	17.68	38.89	54.15	47.14	49.56	68.20 -18.64 peak



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11a_TX_CH_44_Verical



Condition: 3m VERTICAL

Job No : 02123WM

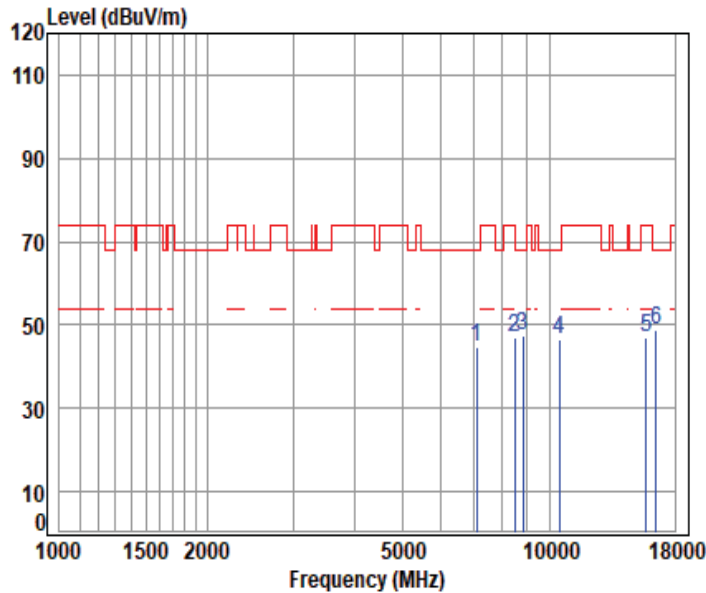
Mode : 5220 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7278.053	11.51	36.66	56.48	53.20	44.89	74.00 -29.11 peak
2	7920.106	11.54	37.64	55.96	53.60	46.82	68.20 -21.38 peak
3	8698.174	12.09	38.59	55.27	51.66	47.07	68.20 -21.13 peak
4	10440.000	13.63	39.04	53.84	49.03	47.86	68.20 -20.34 peak
5	15660.000	17.23	38.56	54.10	45.84	47.53	74.00 -26.47 peak
6	pp16864.040	17.92	39.60	54.26	45.45	48.71	68.20 -19.49 peak



11a_TX_CH_48_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5240 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7095.063	11.96	36.39	56.62	52.88	44.61	68.20 -23.59 peak
2	8488.119	12.23	38.32	55.46	51.77	46.86	74.00 -27.14 peak
3	8832.090	12.24	38.50	55.15	51.91	47.50	68.20 -20.70 peak
4	10480.000	13.64	39.08	53.81	47.80	46.71	68.20 -21.49 peak
5	15720.000	17.22	38.58	54.08	45.44	47.16	74.00 -26.84 peak
6	pp16473.550	17.59	38.87	54.14	46.45	48.77	68.20 -19.43 peak



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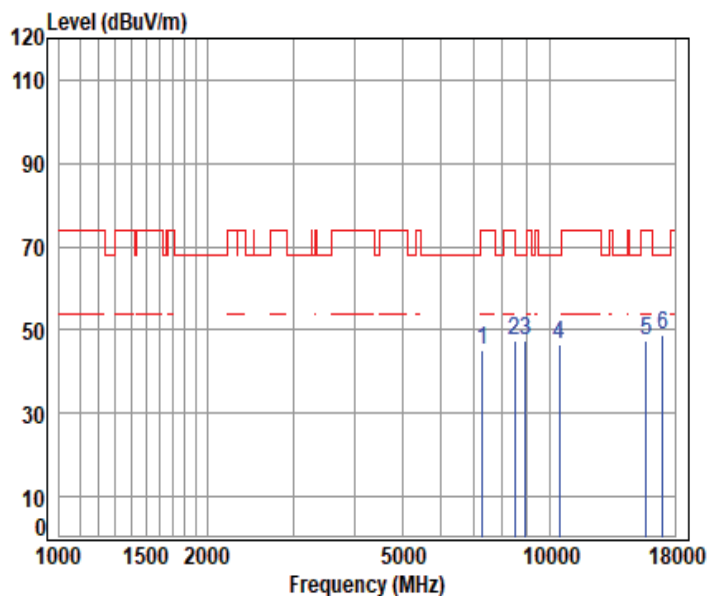
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

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11a_TX_CH_48_Verical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5240 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7285.470	11.51	36.67	56.47	53.34	45.05	74.00 -28.95 peak
2	8488.119	12.23	38.32	55.46	52.43	47.52	74.00 -26.48 peak
3	8922.510	12.20	38.55	55.07	51.58	47.26	68.20 -20.94 peak
4	10480.000	13.64	39.08	53.81	47.75	46.66	68.20 -21.54 peak
5	15720.000	17.22	38.58	54.08	45.70	47.42	74.00 -26.58 peak
6	pp17002.020	18.08	39.70	54.30	45.18	48.66	68.20 -19.54 peak



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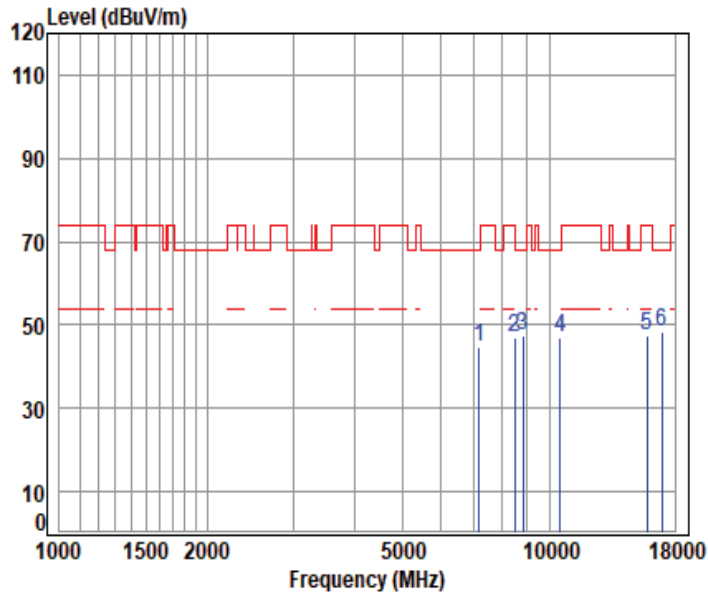
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11ax_20M_TX_CH_36_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5260 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7189.636	11.57	36.58	56.55	53.21	44.81	68.20 -23.39 peak
2	8496.769	12.29	38.31	55.45	51.68	46.83	74.00 -27.17 peak
3	8832.090	12.24	38.50	55.15	51.72	47.31	68.20 -20.89 peak
4	10520.000	13.63	39.14	53.79	48.20	47.18	68.20 -21.02 peak
5	15780.000	17.08	38.52	54.07	45.83	47.36	74.00 -26.64 peak
6	pp16932.880	18.14	39.63	54.28	44.98	48.47	68.20 -19.73 peak



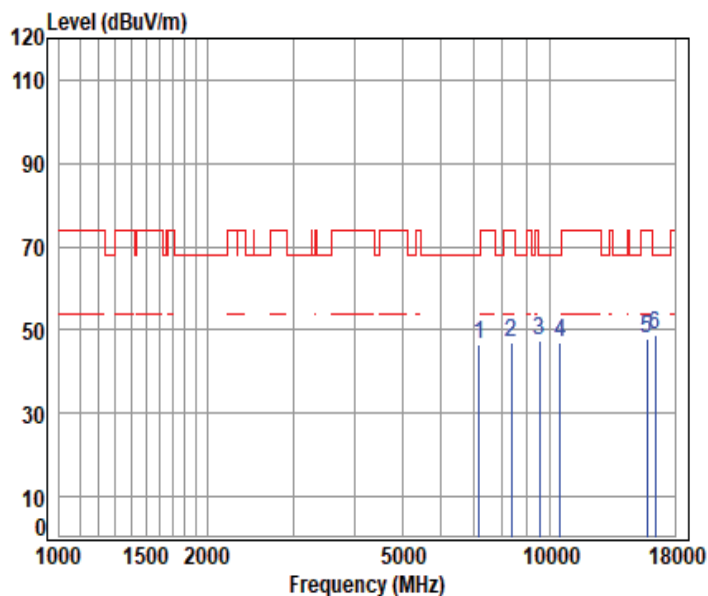
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11ax_20M_TX_CH_36_Verical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5260 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7182.317	11.60	36.56	56.55	55.03	46.64	68.20 -21.56 peak
2	8350.908	11.69	38.70	55.58	52.28	47.09	74.00 -26.91 peak
3	9542.952	12.50	38.81	54.51	50.53	47.33	68.20 -20.87 peak
4	10520.000	13.63	39.14	53.79	48.17	47.15	68.20 -21.05 peak
5	15780.000	17.08	38.52	54.07	46.22	47.75	74.00 -26.25 peak
6	pp16406.570	17.20	38.81	54.12	46.82	48.71	68.20 -19.49 peak



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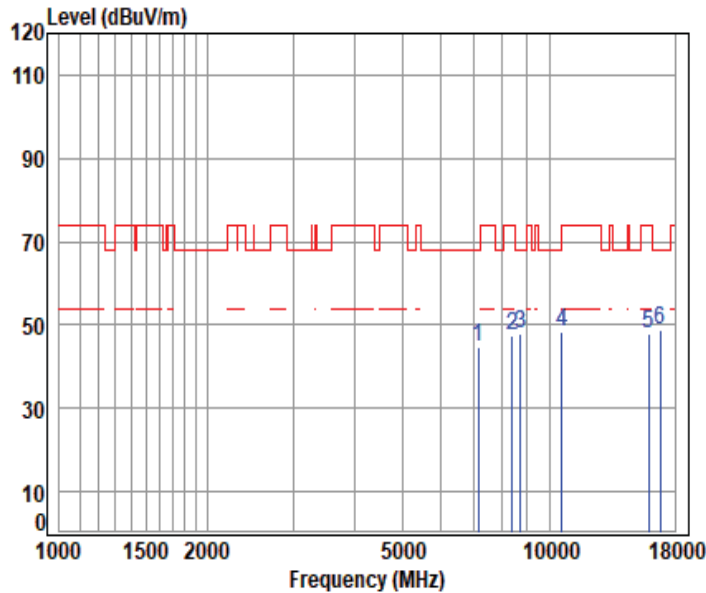
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11ax_20M_TX_CH_44_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5300 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7153.113	11.74	36.51	56.58	53.14	44.81	68.20 -23.39 peak
2	8385.002	11.65	38.63	55.55	52.67	47.40	74.00 -26.60 peak
3	8733.685	12.14	38.53	55.24	52.26	47.69	68.20 -20.51 peak
4	10600.000	13.59	39.30	53.74	49.06	48.21	68.20 -19.99 peak
5	15900.000	17.28	38.70	54.03	45.83	47.78	74.00 -26.22 peak
6	pp16778.370	17.49	39.56	54.23	45.98	48.80	68.20 -19.40 peak



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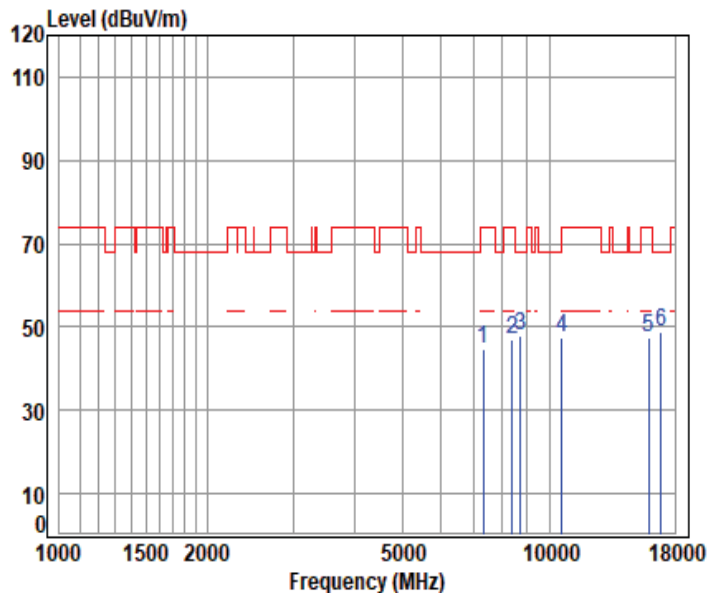
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11ax_20M_TX_CH_44_Verical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5300 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7330.131	11.51	36.76	56.44	52.77	44.60	74.00 -29.40 peak
2	8393.547	11.64	38.61	55.55	52.20	46.90	74.00 -27.10 peak
3	8707.038	12.10	38.59	55.26	52.47	47.90	68.20 -20.30 peak
4	10600.000	13.59	39.30	53.74	48.19	47.34	68.20 -20.86 peak
5	15900.000	17.28	38.70	54.03	45.57	47.52	74.00 -26.48 peak
6	pp16864.040	17.92	39.60	54.26	45.56	48.82	68.20 -19.38 peak



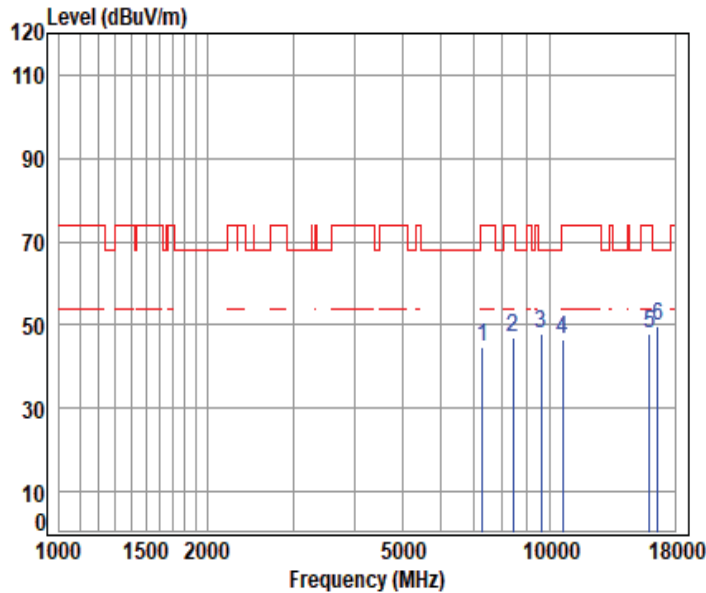
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11ax_20M_TX_CH_48_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5320 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7300.327	11.51	36.70	56.46	53.06	44.81	74.00 -29.19 peak
2	8410.663	11.70	38.56	55.53	52.17	46.90	74.00 -27.10 peak
3	9601.452	12.43	38.80	54.46	51.02	47.79	68.20 -20.41 peak
4	10640.000	13.77	39.34	53.72	47.31	46.70	74.00 -27.30 peak
5	15960.000	17.20	38.64	54.01	46.05	47.88	74.00 -26.12 peak
6	pp16591.430	17.66	39.17	54.18	46.86	49.51	68.20 -18.69 peak



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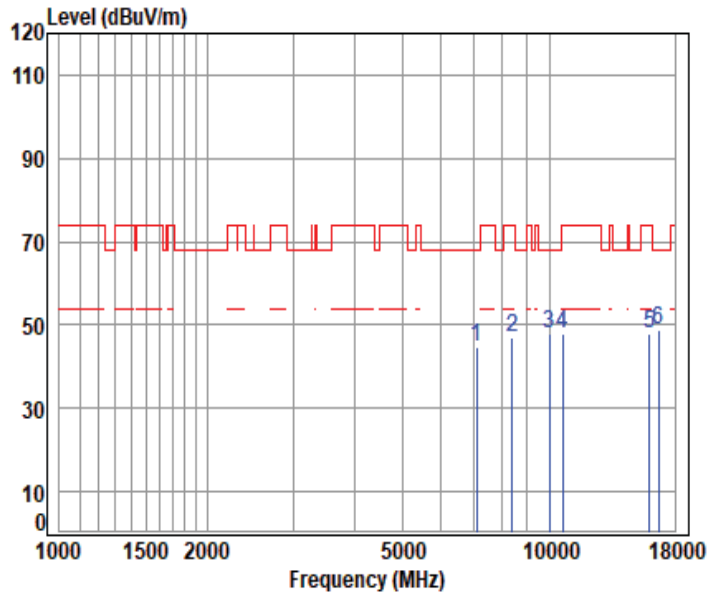
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11ax_20M_TX_CH_48_Verical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5320 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7087.840	11.91	36.38	56.63	53.02	44.68	68.20 -23.52 peak
2	8393.547	11.64	38.61	55.55	52.43	47.13	74.00 -26.87 peak
3	10000.720	13.01	38.90	54.10	49.98	47.79	68.20 -20.41 peak
4	10640.000	13.77	39.34	53.72	48.40	47.79	74.00 -26.21 peak
5	15960.000	17.20	38.64	54.01	45.91	47.74	74.00 -26.26 peak
6	pp16693.140	17.59	39.39	54.21	46.12	48.89	68.20 -19.31 peak



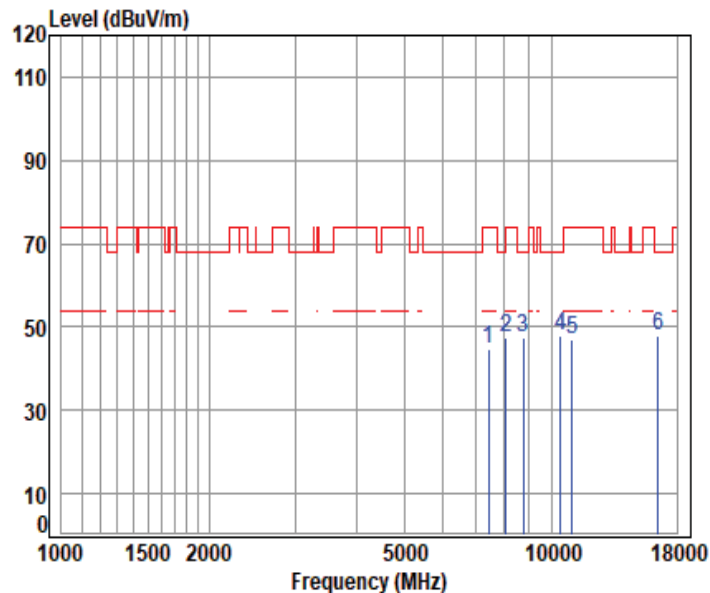
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11a_TX_CH_52_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

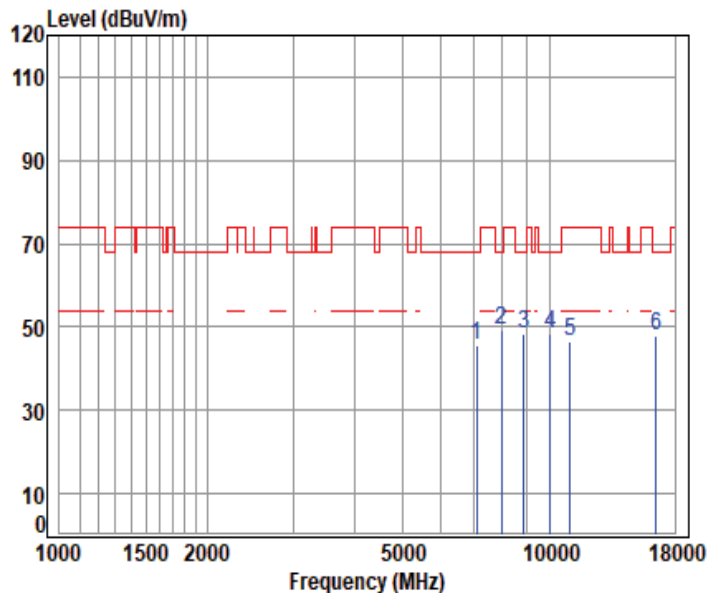
Mode : 5500 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7427.838	11.42	36.76	56.36	52.82	44.64	74.00 -29.36 peak
2	8083.105	11.47	37.80	55.83	53.84	47.28	74.00 -26.72 peak
3	8769.341	12.20	38.50	55.21	51.84	47.33	68.20 -20.87 peak
4	pp10405.990	13.62	39.01	53.86	49.07	47.84	68.20 -20.36 peak
5	11000.000	14.17	39.40	53.50	46.81	46.88	74.00 -27.12 peak
6	16500.000	17.74	38.90	54.15	45.26	47.75	68.20 -20.45 peak



11a_TX_CH_52_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5500 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7102.293	11.98	36.40	56.62	53.80	45.56	68.20 -22.64 peak
2	pp 7976.779	11.56	37.75	55.92	55.78	49.17	68.20 -19.03 peak
3	8859.119	12.23	38.52	55.13	52.77	48.39	68.20 -19.81 peak
4	10031.330	13.09	38.96	54.08	50.52	48.49	68.20 -19.71 peak
5	11000.000	14.17	39.40	53.50	46.55	46.62	74.00 -27.38 peak
6	16500.000	17.74	38.90	54.15	45.60	48.09	68.20 -20.11 peak



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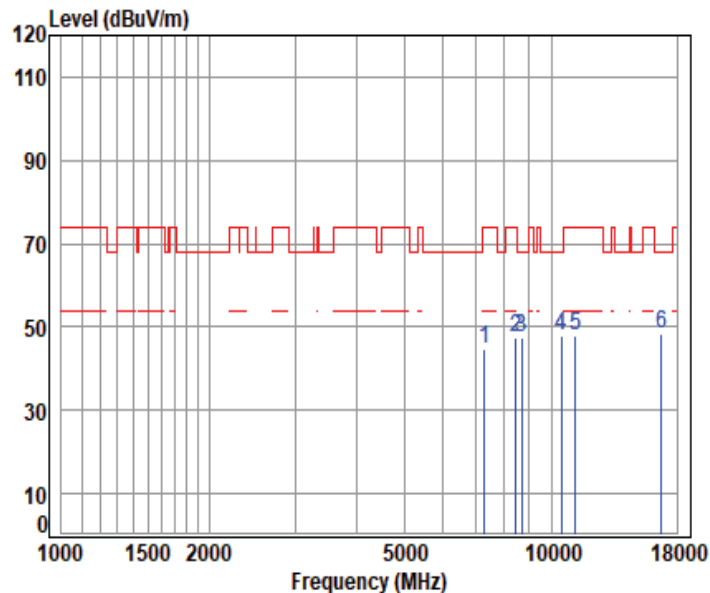
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11a_TX_CH_60_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5580 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7285.470	11.51	36.67	56.47	53.11	44.82	74.00 -29.18 peak
2	8462.222	12.05	38.38	55.48	52.45	47.40	74.00 -26.60 peak
3	8680.473	12.06	38.52	55.29	52.13	47.42	68.20 -20.78 peak
4	10459.120	13.63	39.06	53.82	48.99	47.86	68.20 -20.34 peak
5	11160.000	14.72	39.56	53.55	47.05	47.78	74.00 -26.22 peak
6	pp16740.000	17.54	39.48	54.22	45.50	48.30	68.20 -19.90 peak



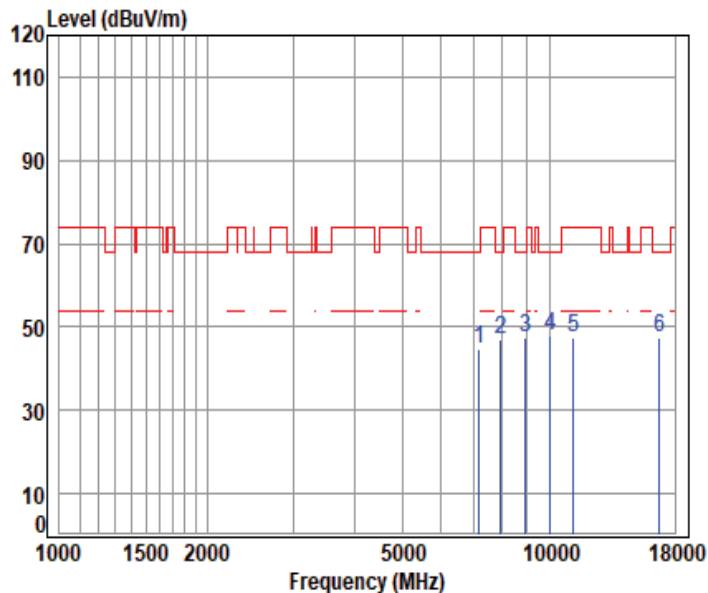
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11a_TX_CH_60_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5580 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7175.005	11.64	36.55	56.56	53.16	44.79	68.20 -23.41 peak
2	7952.441	11.55	37.70	55.94	53.47	46.78	68.20 -21.42 peak
3	8922.510	12.20	38.55	55.07	51.65	47.33	68.20 -20.87 peak
4	pp10021.110	13.06	38.94	54.09	49.93	47.84	68.20 -20.36 peak
5	11160.000	14.72	39.56	53.55	46.93	47.66	74.00 -26.34 peak
6	16740.000	17.54	39.48	54.22	44.81	47.61	68.20 -20.59 peak



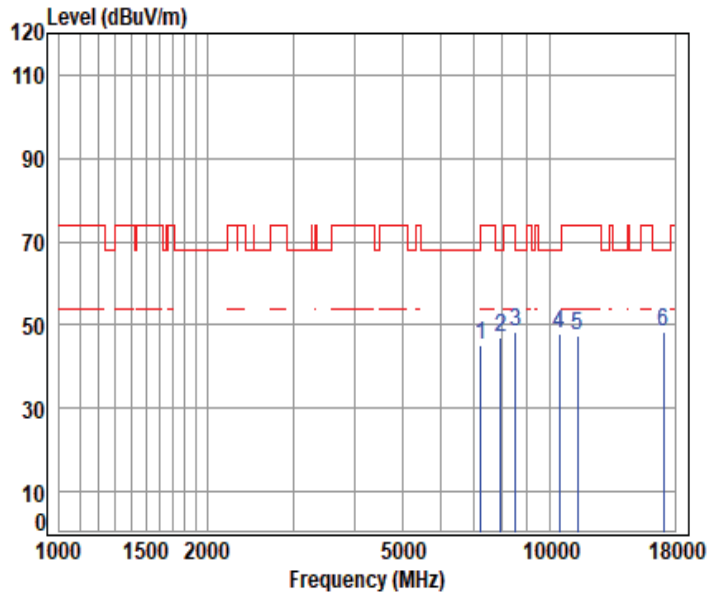
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11a_TX_CH_64_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5700 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7226.345	11.52	36.60	56.52	53.53	45.13	68.20 -23.07 peak
2	7952.441	11.55	37.70	55.94	53.66	46.97	68.20 -21.23 peak
3	pp 8514.096	12.26	38.30	55.44	53.08	48.20	68.20 -20.00 peak
4	10469.780	13.63	39.07	53.82	48.95	47.83	68.20 -20.37 peak
5	11400.000	14.21	39.70	53.62	47.37	47.66	74.00 -26.34 peak
6	17100.000	18.47	39.80	54.32	44.19	48.14	68.20 -20.06 peak



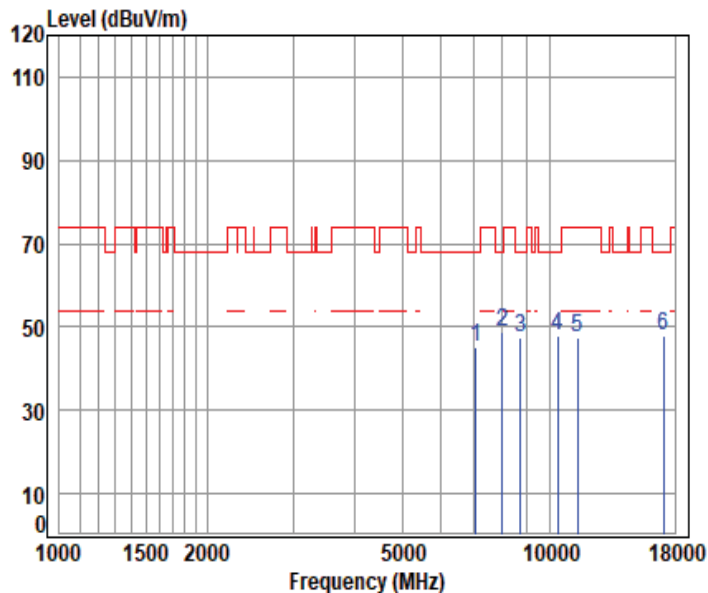
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11a_TX_CH_64_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5700 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7059.021	11.74	36.32	56.65	53.55	44.96	68.20 -23.24 peak
2	pp 7993.045	11.56	37.79	55.91	55.37	48.81	68.20 -19.39 peak
3	8724.793	12.13	38.55	55.25	51.95	47.38	68.20 -20.82 peak
4	10374.240	13.61	39.00	53.88	49.11	47.84	68.20 -20.36 peak
5	11400.000	14.21	39.70	53.62	47.20	47.49	74.00 -26.51 peak
6	17100.000	18.47	39.80	54.32	44.12	48.07	68.20 -20.13 peak



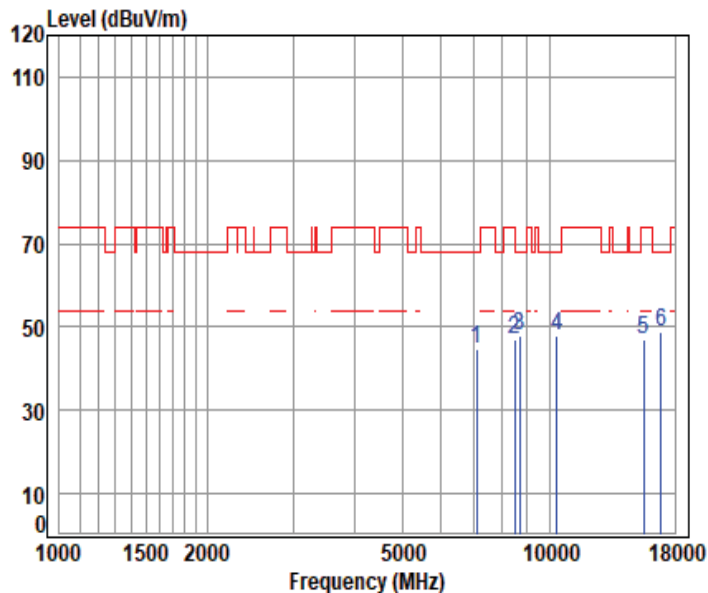
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11ax_20M_TX_CH_52_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5180 TX RSE

: 5G Wi-Fi 11ax20

	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	7109.531	11.95	36.42	56.61	53.04	44.80	68.20 -23.40 peak
2	8496.769	12.29	38.31	55.45	51.91	47.06	74.00 -26.94 peak
3	8689.318	12.08	38.56	55.28	52.37	47.73	68.20 -20.47 peak
4	10360.000	13.60	39.00	53.88	48.98	47.70	68.20 -20.50 peak
5	15540.000	17.00	38.56	54.14	45.59	47.01	74.00 -26.99 peak
6	pp16898.430	18.17	39.60	54.27	45.50	49.00	68.20 -19.20 peak



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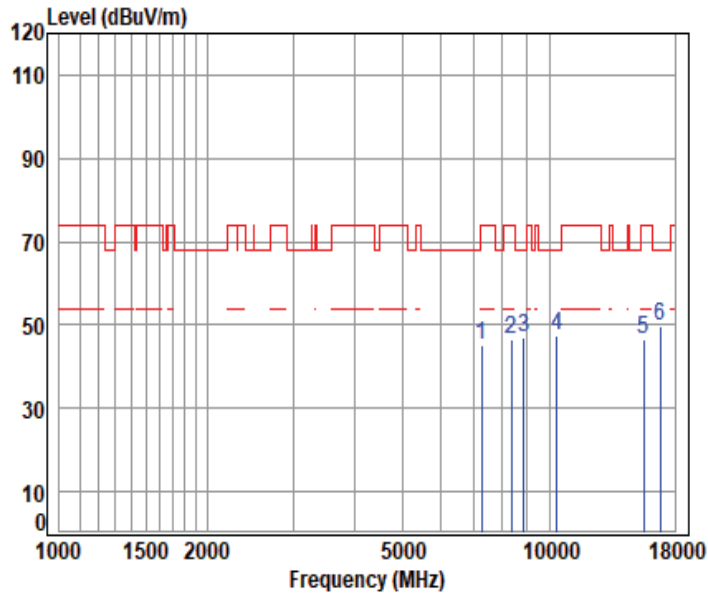
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11ax_20M_TX_CH_52_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5180 TX RSE

: 5G Wi-Fi 11ax20

	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	7278.053	11.51	36.66	56.48	53.55	45.24	74.00 -28.76 peak
2	8367.938	11.67	38.66	55.57	51.89	46.65	74.00 -27.35 peak
3	8841.090	12.24	38.50	55.14	51.55	47.15	68.20 -21.05 peak
4	10360.000	13.60	39.00	53.88	48.58	47.30	68.20 -20.90 peak
5	15540.000	17.00	38.56	54.14	45.00	46.42	74.00 -27.58 peak
6	pp16778.370	17.49	39.56	54.23	46.83	49.65	68.20 -18.55 peak



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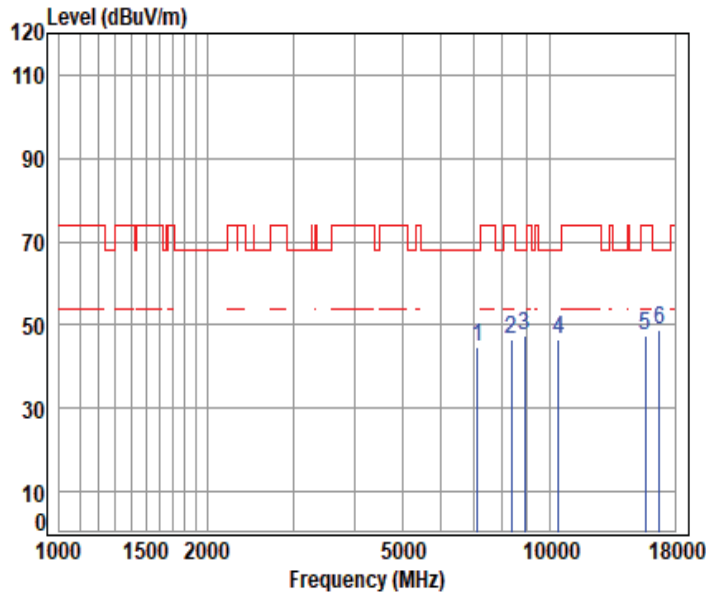
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11ax_20M_TX_CH_60_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5220 TX RSE

: 5G Wi-Fi 11ax20

	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	7124.029	11.88	36.45	56.60	52.95	44.68	68.20 -23.52 peak
2	8342.406	11.70	38.58	55.59	51.94	46.63	74.00 -27.37 peak
3	8895.287	12.22	38.59	55.09	51.87	47.59	68.20 -20.61 peak
4	10440.000	13.63	39.04	53.84	47.77	46.60	68.20 -21.60 peak
5	15660.000	17.23	38.56	54.10	45.70	47.39	74.00 -26.61 peak
6	pp16761.290	17.51	39.52	54.23	46.14	48.94	68.20 -19.26 peak



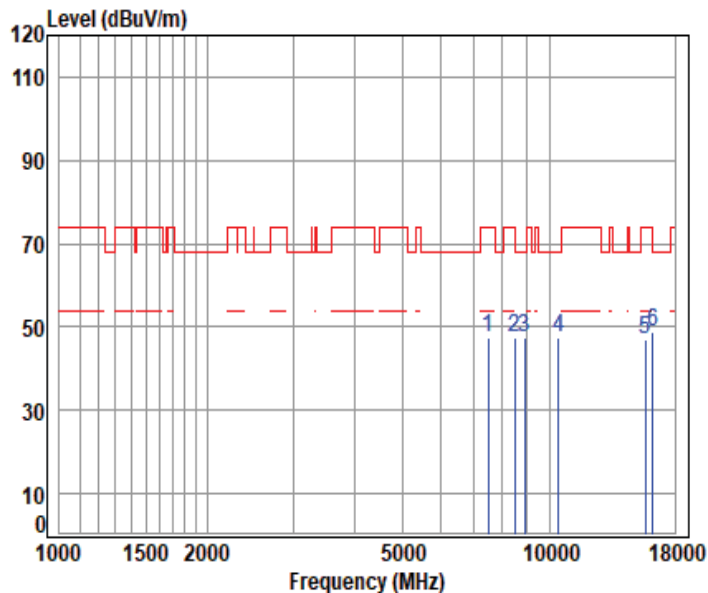
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11ax_20M_TX_CH_60_Verical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5220 TX RSE

: 5G Wi-Fi 11ax20

	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	7496.243	11.24	36.80	56.30	55.58	47.32	74.00 -26.68 peak
2	8496.769	12.29	38.31	55.45	52.12	47.27	74.00 -26.73 peak
3	8895.287	12.22	38.59	55.09	51.85	47.57	68.20 -20.63 peak
4	10440.000	13.63	39.04	53.84	48.69	47.52	68.20 -20.68 peak
5	15660.000	17.23	38.56	54.10	45.49	47.18	74.00 -26.82 peak
6	pp16223.770	17.20	38.52	54.07	47.10	48.75	68.20 -19.45 peak



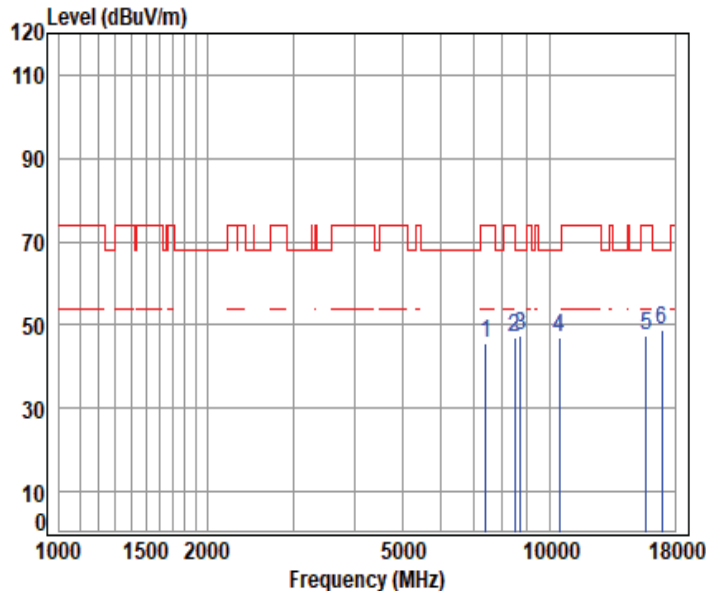
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11ax_20M_TX_CH_64_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5240 TX RSE

: 5G Wi-Fi 11ax20

	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	7405.175	11.49	36.71	56.38	53.84	45.66	74.00 -28.34 peak
2	8479.478	12.17	38.34	55.47	52.00	47.04	74.00 -26.96 peak
3	8715.911	12.12	38.57	55.26	51.86	47.29	68.20 -20.91 peak
4	10480.000	13.64	39.08	53.81	48.31	47.22	68.20 -20.98 peak
5	15720.000	17.22	38.58	54.08	45.86	47.58	74.00 -26.42 peak
6	pp16932.880	18.14	39.63	54.28	45.54	49.03	68.20 -19.17 peak



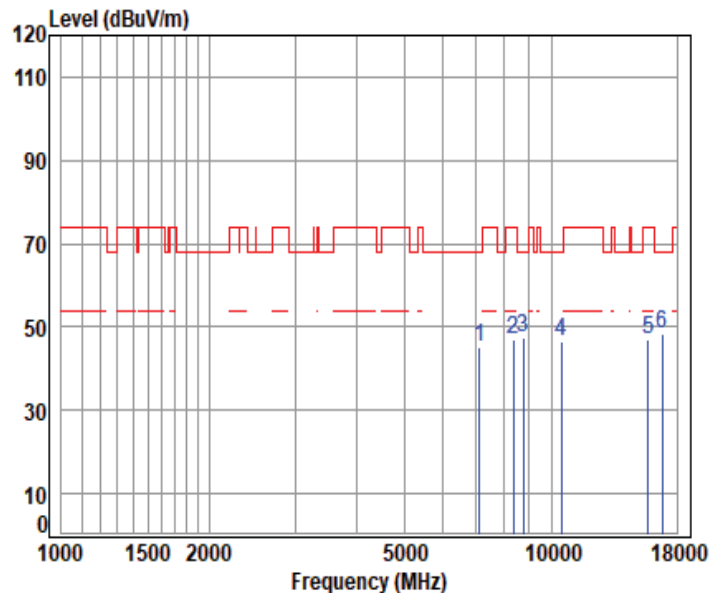
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11ax_20M_TX_CH_64_Verical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5240 TX RSE

: 5G Wi-Fi 11ax20

	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	7116.776	11.91	36.43	56.61	53.26	44.99	68.20 -23.21 peak
2	8350.908	11.69	38.70	55.58	52.09	46.90	74.00 -27.10 peak
3	8751.494	12.17	38.50	55.22	52.13	47.58	68.20 -20.62 peak
4	10480.000	13.64	39.08	53.81	47.59	46.50	68.20 -21.70 peak
5	15720.000	17.22	38.58	54.08	45.15	46.87	74.00 -27.13 peak
6	pp16812.580	17.55	39.60	54.24	45.45	48.36	68.20 -19.84 peak



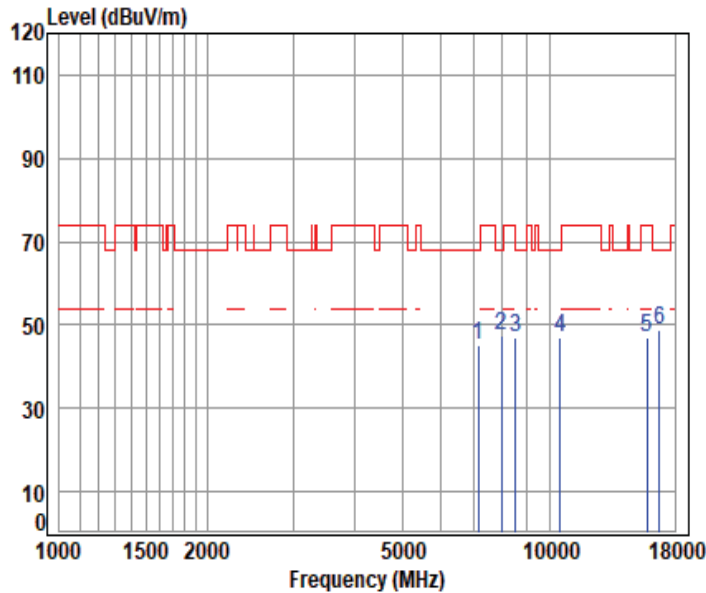
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11a_TX_CH_100_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5260 TX RSE

: 5G Wi-Fi 11ax20

	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	7160.403	11.71	36.52	56.57	53.32	44.98	68.20 -23.22 peak
2	7984.908	11.56	37.77	55.91	53.99	47.41	68.20 -20.79 peak
3	8531.458	12.20	38.30	55.42	52.14	47.22	68.20 -20.98 peak
4	10520.000	13.63	39.14	53.79	47.92	46.90	68.20 -21.30 peak
5	15780.000	17.08	38.52	54.07	45.58	47.11	74.00 -26.89 peak
6	pp16761.290	17.51	39.52	54.23	46.08	48.88	68.20 -19.32 peak



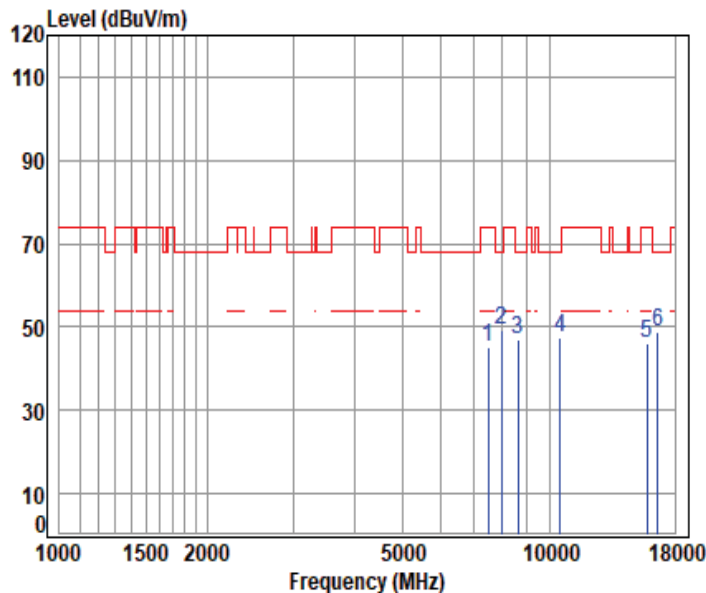
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11a_TX_CH_100_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5260 TX RSE

: 5G Wi-Fi 11ax20

	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	7496.243	11.24	36.80	56.30	53.41	45.15	74.00 -28.85 peak
2	pp 7984.908	11.56	37.77	55.91	55.64	49.06	68.20 -19.14 peak
3	8610.026	11.97	38.48	55.35	52.11	47.21	68.20 -20.99 peak
4	10520.000	13.63	39.14	53.79	48.34	47.32	68.20 -20.88 peak
5	15780.000	17.08	38.52	54.07	44.48	46.01	74.00 -27.99 peak
6	16591.430	17.66	39.17	54.18	46.05	48.70	68.20 -19.50 peak



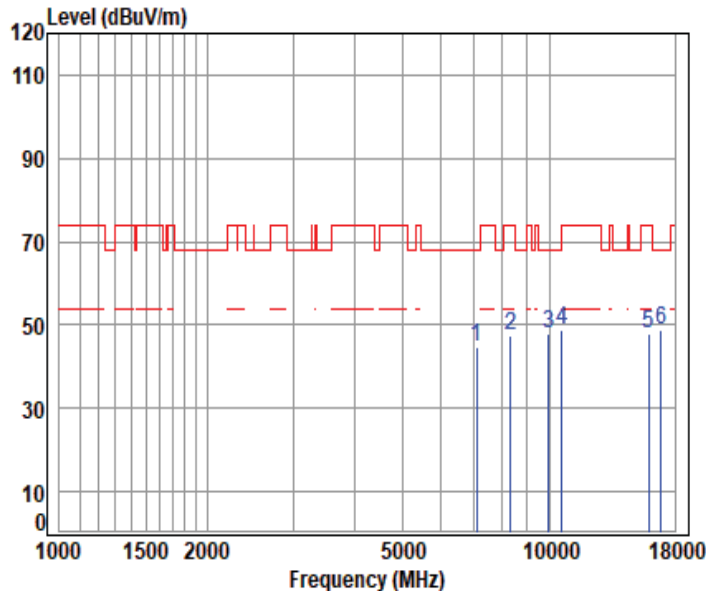
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Report No.: SZCR250500212306

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11a_TX_CH_116_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5300 TX RSE

: 5G Wi-Fi 11ax20

	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	7109.531	11.95	36.42	56.61	52.79	44.55	68.20 -23.65 peak
2	8333.913	11.72	38.44	55.60	52.69	47.25	74.00 -26.75 peak
3	9939.788	12.88	38.90	54.15	50.12	47.75	68.20 -20.45 peak
4	10600.000	13.59	39.30	53.74	49.51	48.66	68.20 -19.54 peak
5	15900.000	17.28	38.70	54.03	45.76	47.71	74.00 -26.29 peak
6	pp16864.040	17.92	39.60	54.26	45.47	48.73	68.20 -19.47 peak



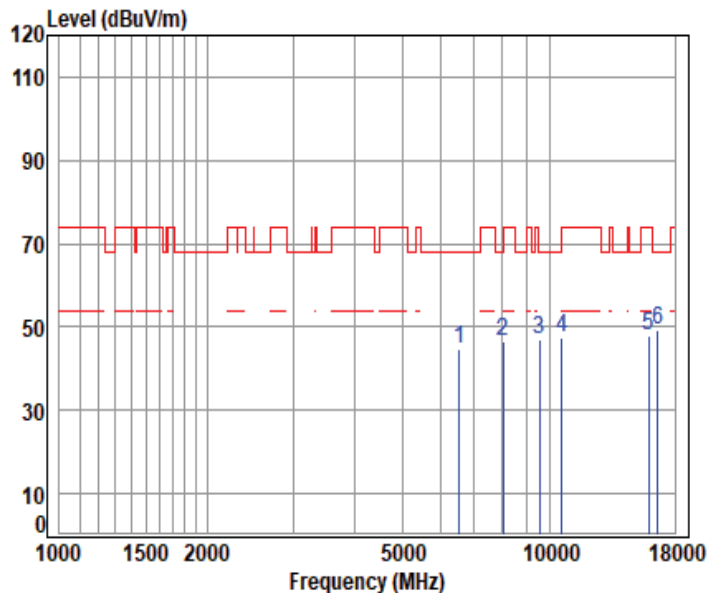
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11a_TX_CH_116_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5300 TX RSE

: 5G Wi-Fi 11ax20

	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	6546.511	11.64	34.99	56.79	54.72	44.56	68.20 -23.64 peak
2	8042.043	11.51	37.80	55.86	53.25	46.70	74.00 -27.30 peak
3	9523.532	12.53	38.85	54.53	50.28	47.13	68.20 -21.07 peak
4	10600.000	13.59	39.30	53.74	48.08	47.23	68.20 -20.97 peak
5	15900.000	17.28	38.70	54.03	45.85	47.80	74.00 -26.20 peak
6	pp16591.430	17.66	39.17	54.18	46.71	49.36	68.20 -18.84 peak



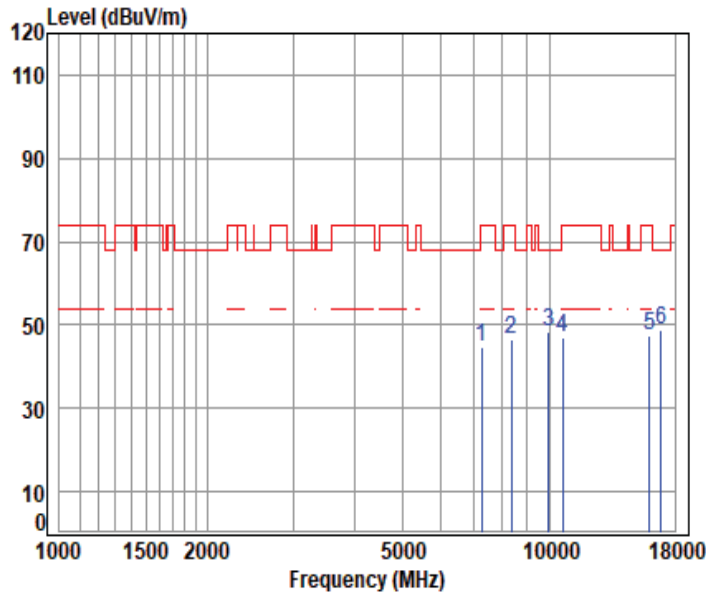
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

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11a_TX_CH_140_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5320 TX RSE

: 5G Wi-Fi 11ax20

	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	7278.053	11.51	36.66	56.48	52.98	44.67	74.00 -29.33 peak
2	8367.938	11.67	38.66	55.57	51.77	46.53	74.00 -27.47 peak
3	9949.918	12.90	38.90	54.15	50.59	48.24	68.20 -19.96 peak
4	10640.000	13.77	39.34	53.72	47.81	47.20	74.00 -26.80 peak
5	15960.000	17.20	38.64	54.01	45.72	47.55	74.00 -26.45 peak
6	pp16846.870	17.80	39.60	54.25	45.61	48.76	68.20 -19.44 peak



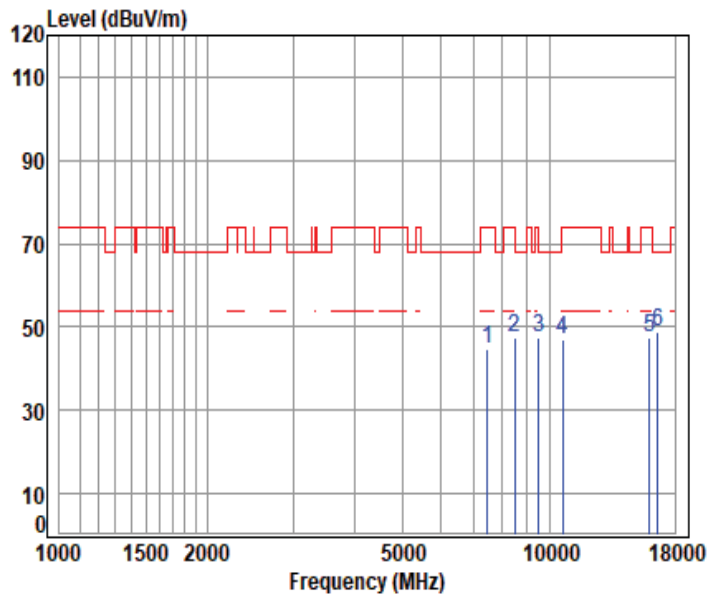
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11a_TX_CH_140_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

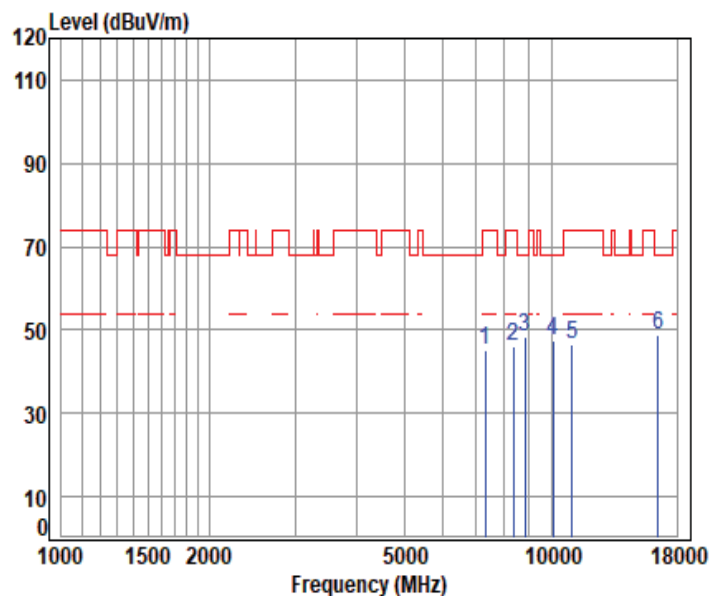
Mode : 5320 TX RSE

: 5G Wi-Fi 11ax20

	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	7465.763	11.32	36.80	56.33	52.82	44.61	74.00 -29.39 peak
2	8488.119	12.23	38.32	55.46	52.20	47.29	74.00 -26.71 peak
3	9504.150	12.55	38.89	54.55	50.71	47.60	68.20 -20.60 peak
4	10640.000	13.77	39.34	53.72	47.55	46.94	74.00 -27.06 peak
5	15960.000	17.20	38.64	54.01	45.62	47.45	74.00 -26.55 peak
6	pp16591.430	17.66	39.17	54.18	46.04	48.69	68.20 -19.51 peak



11ax_20M_TX_CH_100_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

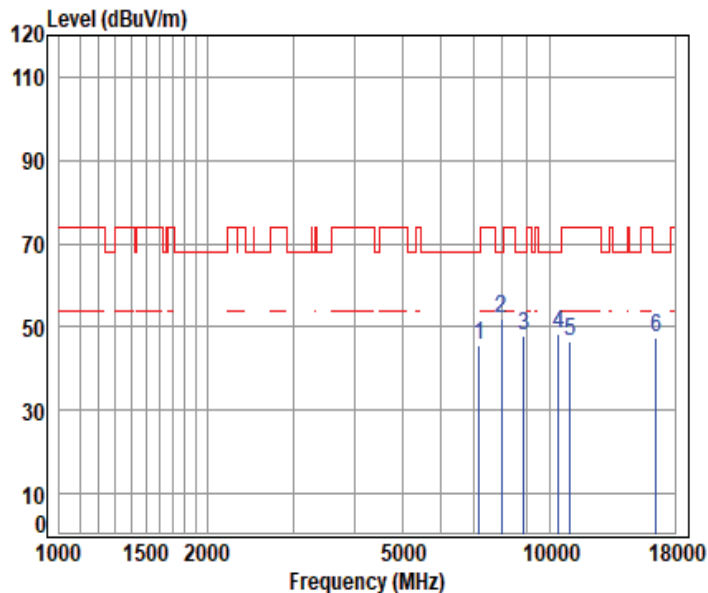
Mode : 5500 TX RSE

: 5G Wi-Fi 11ax20

	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	7307.767	11.51	36.72	56.45	53.19	44.97	74.00 -29.03 peak
2	8342.406	11.70	38.58	55.59	51.53	46.22	74.00 -27.78 peak
3	8832.090	12.24	38.50	55.15	52.78	48.37	68.20 -19.83 peak
4	10082.540	13.22	39.07	54.05	49.26	47.50	68.20 -20.70 peak
5	11000.000	14.17	39.40	53.50	46.68	46.75	74.00 -27.25 peak
6	pp16500.000	17.74	38.90	54.15	46.27	48.76	68.20 -19.44 peak



11ax_20M_TX_CH_100_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5500 TX RSE

: 5G Wi-Fi 11ax20

		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	7189.636	11.57	36.58	56.55	53.94	45.54	68.20	-22.66	peak
2	7976.779	11.56	37.75	55.92	58.72	52.11	68.20	-16.09	peak
3	8859.119	12.23	38.52	55.13	52.09	47.71	68.20	-20.49	peak
4	10416.590	13.62	39.02	53.85	49.51	48.30	68.20	-19.90	peak
5	11000.000	14.17	39.40	53.50	46.53	46.60	74.00	-27.40	peak
6	16500.000	17.74	38.90	54.15	45.08	47.57	68.20	-20.63	peak



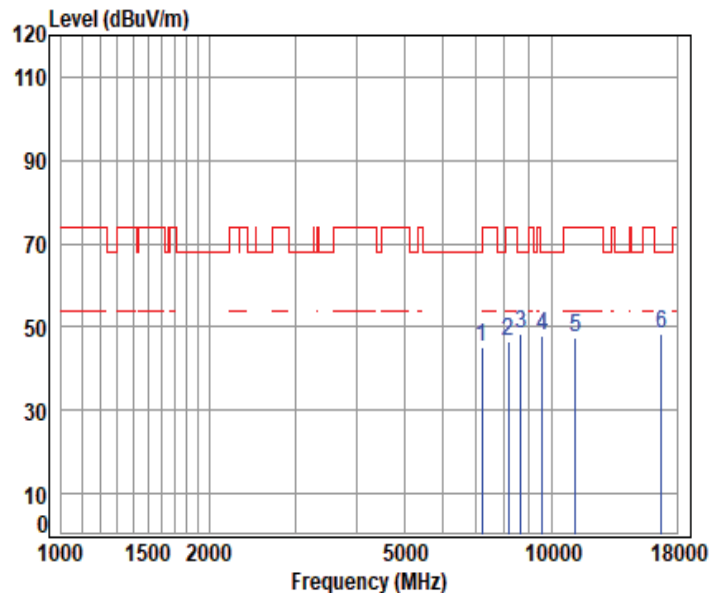
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11ax_20M_TX_CH_116_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5580 TX RSE

: 5G Wi-Fi 11ax20

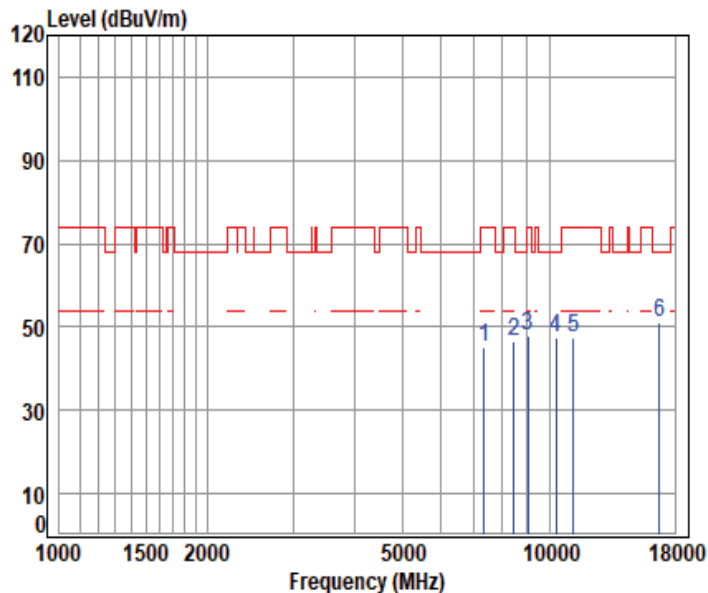
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7218.988	11.52	36.60	56.52	53.54	45.14	68.20	-23.06 peak
2	8165.858	11.53	37.93	55.75	53.03	46.74	74.00	-27.26 peak
3	8662.807	12.04	38.45	55.30	53.03	48.22	68.20	-19.98 peak
4	9562.412	12.48	38.80	54.49	51.13	47.92	68.20	-20.28 peak
5	11160.000	14.72	39.56	53.55	46.66	47.39	74.00	-26.61 peak
6	pp16740.000	17.54	39.48	54.22	45.54	48.34	68.20	-19.86 peak



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11ax_20M_TX_CH_116_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5580 TX RSE

: 5G Wi-Fi 11ax20

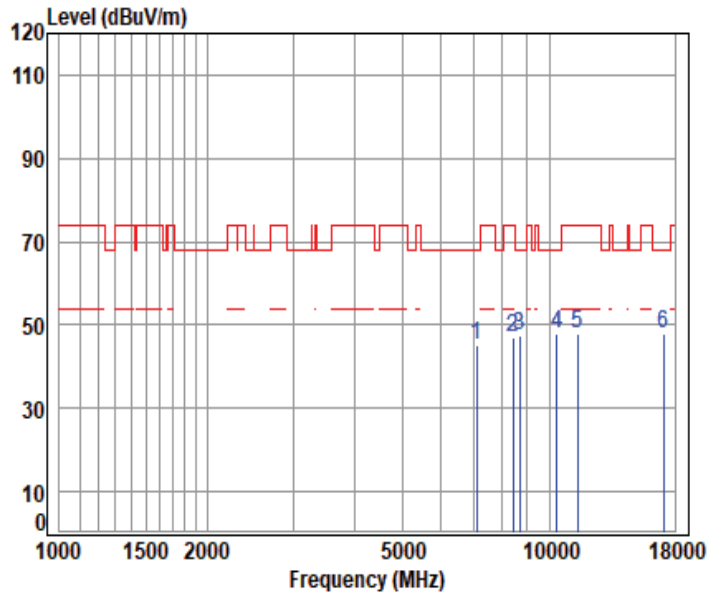
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7337.601	11.51	36.78	56.43	53.41	45.27	74.00 -28.73 peak
2	8445.000	11.94	38.42	55.50	51.85	46.71	74.00 -27.29 peak
3	9023.043	12.14	38.60	54.98	51.97	47.73	74.00 -26.27 peak
4	10311.030	13.58	39.00	53.91	48.74	47.41	68.20 -20.79 peak
5	11160.000	14.72	39.56	53.55	46.58	47.31	74.00 -26.69 peak
6	pp16740.000	17.54	39.48	54.22	48.27	51.07	68.20 -17.13 peak



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11ax_20M_TX_CH_140_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5700 TX RSE

: 5G Wi-Fi 11ax20

	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	7095.063	11.96	36.39	56.62	53.41	45.14	68.20 -23.06 peak
2	8436.402	11.88	38.45	55.51	52.07	46.89	74.00 -27.11 peak
3	8698.174	12.09	38.59	55.27	52.01	47.42	68.20 -20.78 peak
4	10363.680	13.61	39.00	53.88	49.03	47.76	68.20 -20.44 peak
5	11400.000	14.21	39.70	53.62	47.47	47.76	74.00 -26.24 peak
6	pp17100.000	18.47	39.80	54.32	43.96	47.91	68.20 -20.29 peak



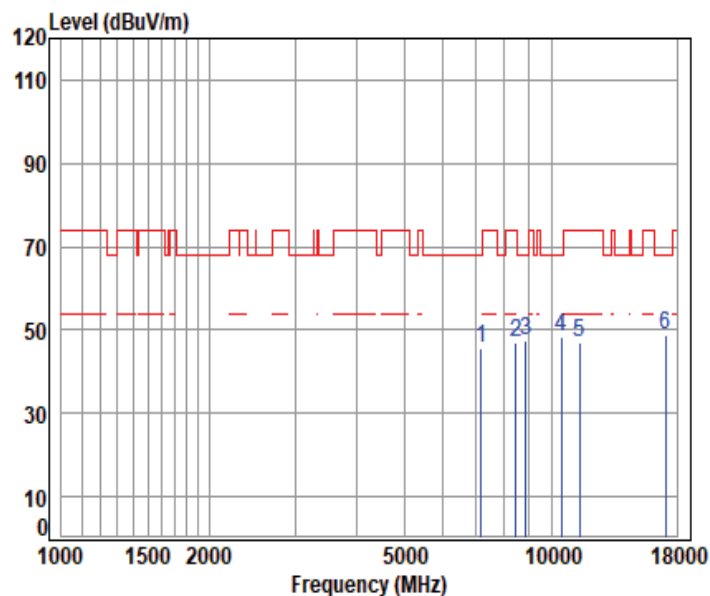
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Report No.: SZCR250500212306

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11ax_20M_TX_CH_140_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5700 TX RSE

: 5G Wi-Fi 11ax20

	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	7175.005	11.64	36.55	56.56	54.07	45.70	68.20 -22.50 peak
2	8445.000	11.94	38.42	55.50	52.26	47.12	74.00 -26.88 peak
3	8850.100	12.23	38.50	55.13	51.86	47.46	68.20 -20.74 peak
4	10459.120	13.63	39.06	53.82	49.55	48.42	68.20 -19.78 peak
5	11400.000	14.21	39.70	53.62	46.52	46.81	74.00 -27.19 peak
6	pp17100.000	18.47	39.80	54.32	44.99	48.94	68.20 -19.26 peak



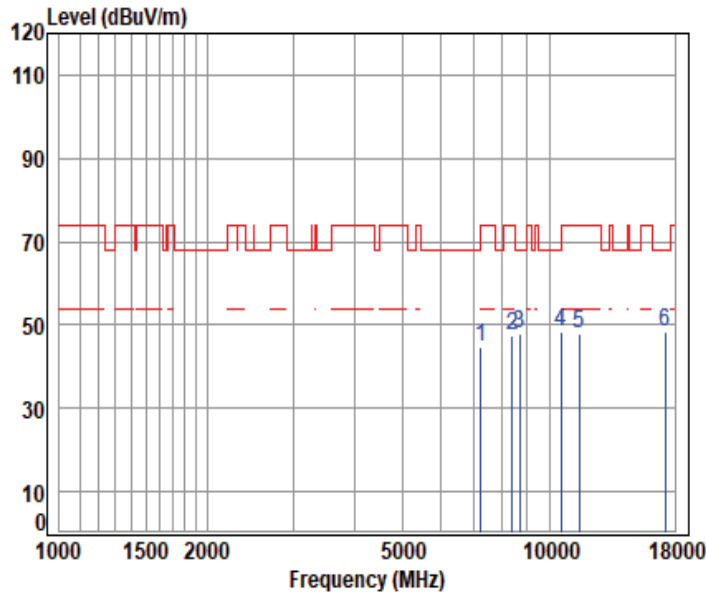
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11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5745 TX RSE

: 5G Wi-Fi 11a

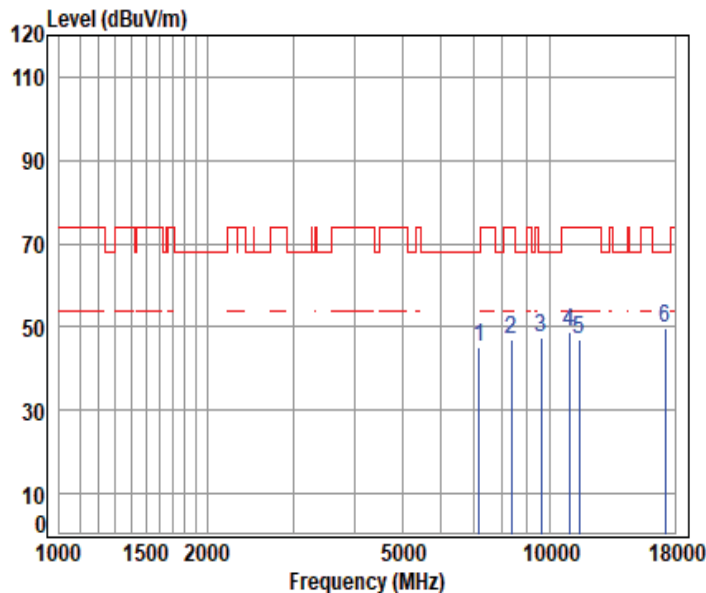
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7241.082	11.52	36.60	56.51	53.19	44.80	68.20 -23.40 peak
2	8385.002	11.65	38.63	55.55	52.83	47.56	74.00 -26.44 peak
3	8689.318	12.08	38.56	55.28	52.50	47.86	68.20 -20.34 peak
4	10566.200	13.61	39.23	53.76	49.12	48.20	68.20 -20.00 peak
5	11490.000	14.97	39.61	53.65	46.79	47.72	74.00 -26.28 peak
6	pp17235.000	17.83	40.01	54.35	45.03	48.52	68.20 -19.68 peak



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11a_TX_CH_149_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

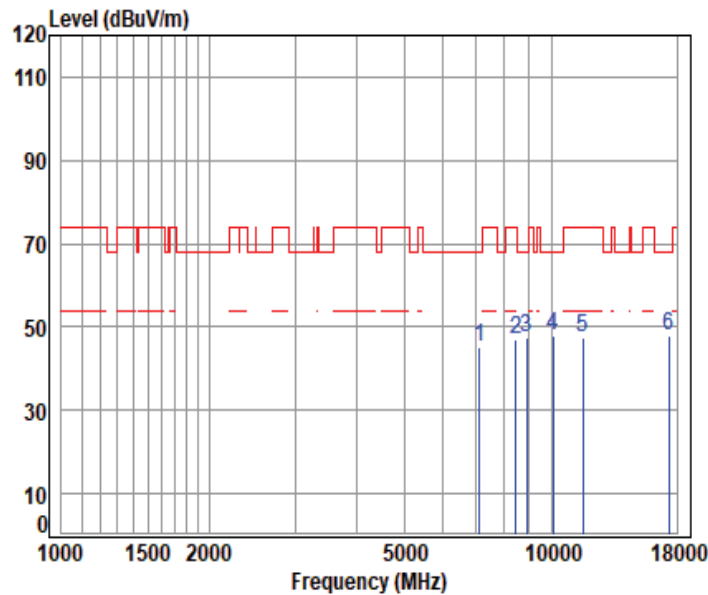
Mode : 5745 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7175.005	11.64	36.55	56.56	53.66	45.29	68.20	-22.91 peak
2	8342.406	11.70	38.58	55.59	52.29	46.98	74.00	-27.02 peak
3	9601.452	12.43	38.80	54.46	50.74	47.51	68.20	-20.69 peak
4	10972.000	14.11	39.37	53.52	48.94	48.90	74.00	-25.10 peak
5	11490.000	14.97	39.61	53.65	46.11	47.04	74.00	-26.96 peak
6	pp17235.000	17.83	40.01	54.35	46.30	49.79	68.20	-18.41 peak



11a_TX_CH_157_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5785 TX RSE

: 5G Wi-Fi 11a

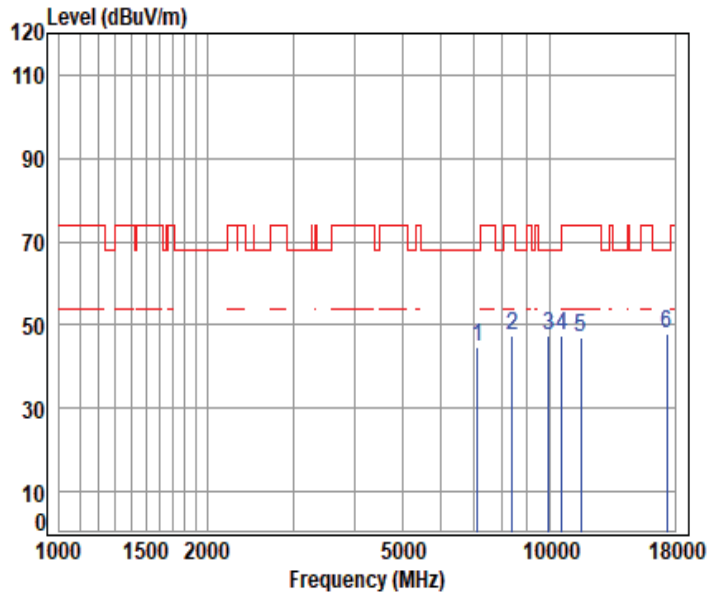
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7131.289	11.84	36.46	56.59	53.27	44.98	68.20 -23.22 peak
2	8445.000	11.94	38.42	55.50	52.16	47.02	74.00 -26.98 peak
3	8877.185	12.23	38.55	55.11	51.75	47.42	68.20 -20.78 peak
4	10072.280	13.20	39.04	54.06	49.64	47.82	68.20 -20.38 peak
5	11570.000	14.78	39.60	53.67	46.61	47.32	74.00 -26.68 peak
6	pp17355.000	18.00	40.31	54.37	44.04	47.98	68.20 -20.22 peak



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11a_TX_CH_157_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

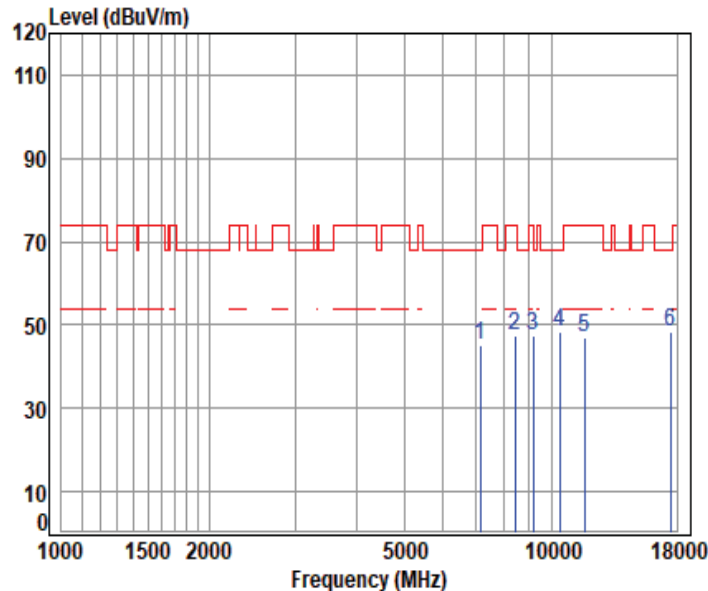
Mode : 5785 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7116.776	11.91	36.43	56.61	53.18	44.91	68.20 -23.29 peak
2	8385.002	11.65	38.63	55.55	52.64	47.37	74.00 -26.63 peak
3	9960.058	12.93	38.90	54.14	49.79	47.48	68.20 -20.72 peak
4	10609.330	13.63	39.31	53.73	48.05	47.26	74.00 -26.74 peak
5	11570.000	14.78	39.60	53.67	46.31	47.02	74.00 -26.98 peak
6	pp17355.000	18.00	40.31	54.37	43.82	47.76	68.20 -20.44 peak



11a_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

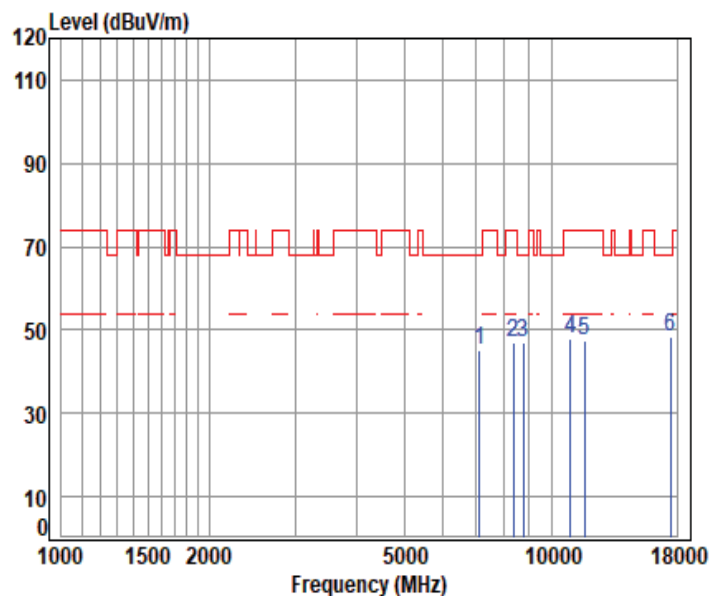
Mode : 5825 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7153.113	11.74	36.51	56.58	53.42	45.09	68.20 -23.11 peak
2	8427.813	11.82	38.49	55.51	52.66	47.46	74.00 -26.54 peak
3	9171.297	12.26	38.27	54.85	51.93	47.61	74.00 -26.39 peak
4	10384.810	13.61	39.00	53.87	49.45	48.19	68.20 -20.01 peak
5	11650.000	14.69	39.55	53.69	46.64	47.19	74.00 -26.81 peak
6	pp17475.000	18.35	40.78	54.40	43.78	48.51	68.20 -19.69 peak



11a_TX_CH_165_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5825 TX RSE

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7131.289	11.84	36.46	56.59	53.62	45.33	68.20 -22.87 peak
2	8342.406	11.70	38.58	55.59	52.29	46.98	74.00 -27.02 peak
3	8760.413	12.19	38.50	55.22	51.65	47.12	68.20 -21.08 peak
4	10927.390	14.02	39.33	53.54	47.94	47.75	74.00 -26.25 peak
5	11650.000	14.69	39.55	53.69	47.10	47.65	74.00 -26.35 peak
6	pp17475.000	18.35	40.78	54.40	43.75	48.48	68.20 -19.72 peak



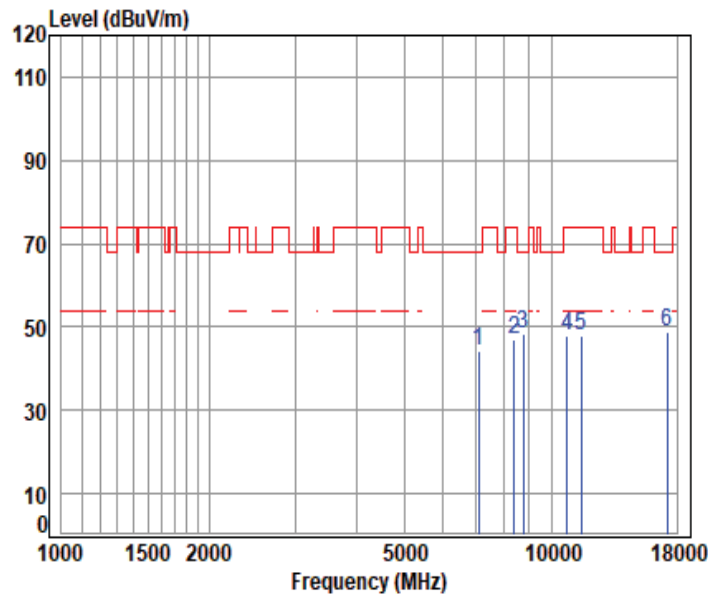
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

11ax_20M_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5745 TX RSE

: 5G Wi-Fi 11ax20

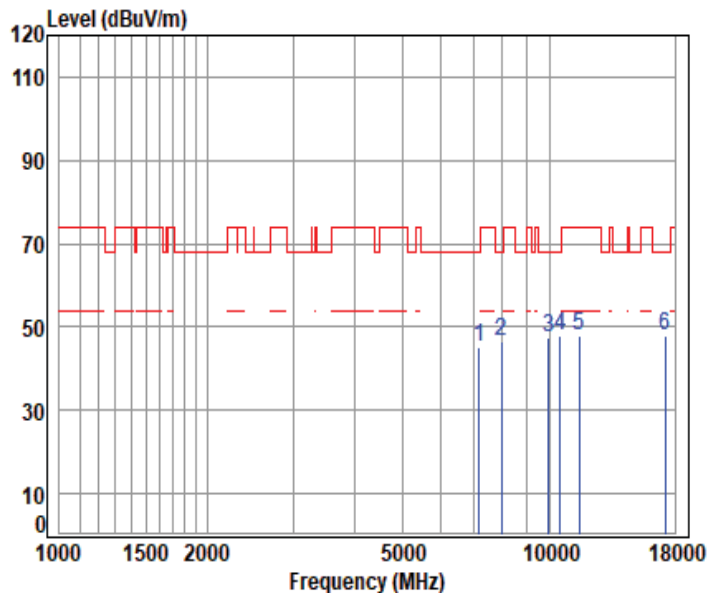
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7102.293	11.98	36.40	56.62	52.60	44.36	68.20 -23.84 peak
2	8385.002	11.65	38.63	55.55	52.07	46.80	74.00 -27.20 peak
3	8760.413	12.19	38.50	55.22	53.02	48.49	68.20 -19.71 peak
4	10772.670	13.78	39.33	53.64	48.44	47.91	74.00 -26.09 peak
5	11490.000	14.97	39.61	53.65	47.07	48.00	74.00 -26.00 peak
6	pp17235.000	17.83	40.01	54.35	45.24	48.73	68.20 -19.47 peak



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11ax_20M_TX_CH_149_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5745 TX RSE

: 5G Wi-Fi 11ax20

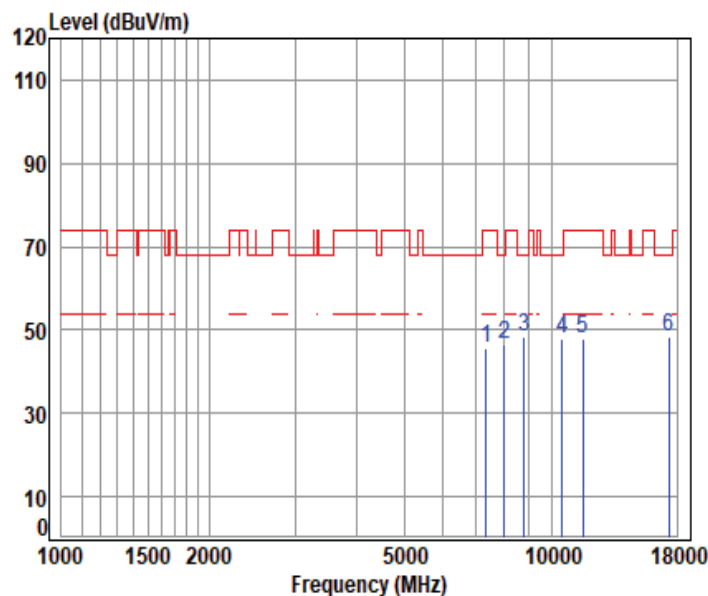
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7167.700	11.67	36.54	56.57	53.58	45.22	68.20 -22.98 peak
2	7984.908	11.56	37.77	55.91	53.05	46.47	68.20 -21.73 peak
3	9949.918	12.90	38.90	54.15	49.65	47.30	68.20 -20.90 peak
4	pp10512.520	13.63	39.13	53.79	48.96	47.93	68.20 -20.27 peak
5	11490.000	14.97	39.61	53.65	47.02	47.95	74.00 -26.05 peak
6	17235.000	17.83	40.01	54.35	44.26	47.75	68.20 -20.45 peak



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11ax_20M_TX_CH_157_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5785 TX RSE

: 5G Wi-Fi 11ax20

	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	7337.601	11.51	36.78	56.43	53.62	45.48	74.00 -28.52 peak
2	8001.191	11.56	37.80	55.90	53.13	46.59	68.20 -21.61 peak
3	8778.277	12.22	38.50	55.20	52.71	48.23	68.20 -19.97 peak
4	10523.230	13.63	39.15	53.79	49.05	48.04	68.20 -20.16 peak
5	11570.000	14.78	39.60	53.67	47.10	47.81	74.00 -26.19 peak
6	pp17355.000	18.00	40.31	54.37	44.56	48.50	68.20 -19.70 peak



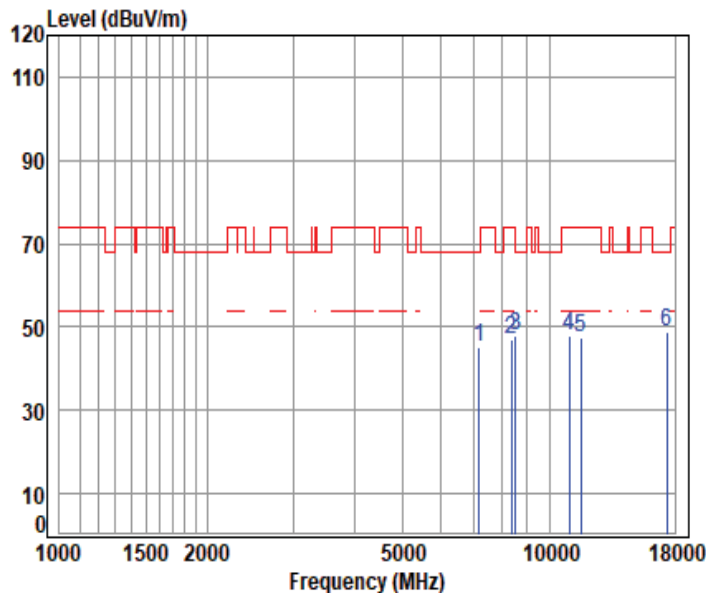
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11ax_20M_TX_CH_157_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

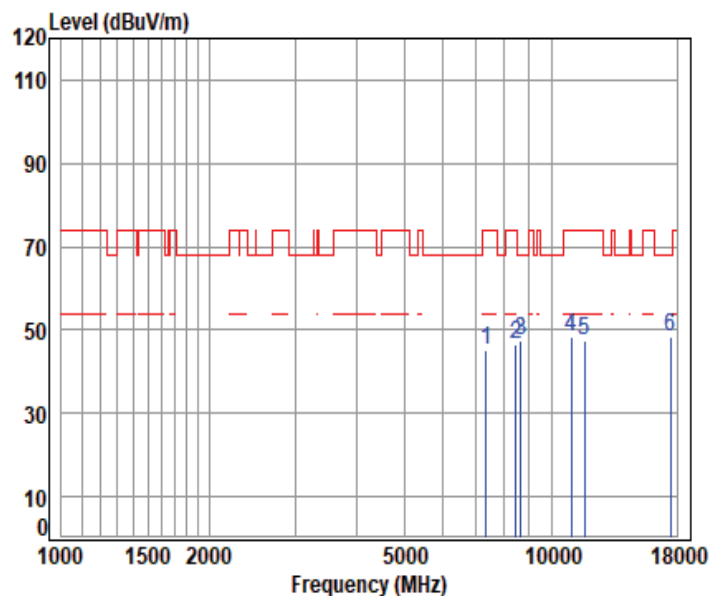
Mode : 5785 TX RSE

: 5G Wi-Fi 11ax20

	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	7175.005	11.64	36.55	56.56	53.49	45.12	68.20 -23.08 peak
2	8342.406	11.70	38.58	55.59	52.41	47.10	74.00 -26.90 peak
3	8522.772	12.23	38.30	55.43	52.66	47.76	68.20 -20.44 peak
4	10972.000	14.11	39.37	53.52	47.92	47.88	74.00 -26.12 peak
5	11570.000	14.78	39.60	53.67	46.74	47.45	74.00 -26.55 peak
6	pp17355.000	18.00	40.31	54.37	44.81	48.75	68.20 -19.45 peak



11ax_20M_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5825 TX RSE

: 5G Wi-Fi 11ax20

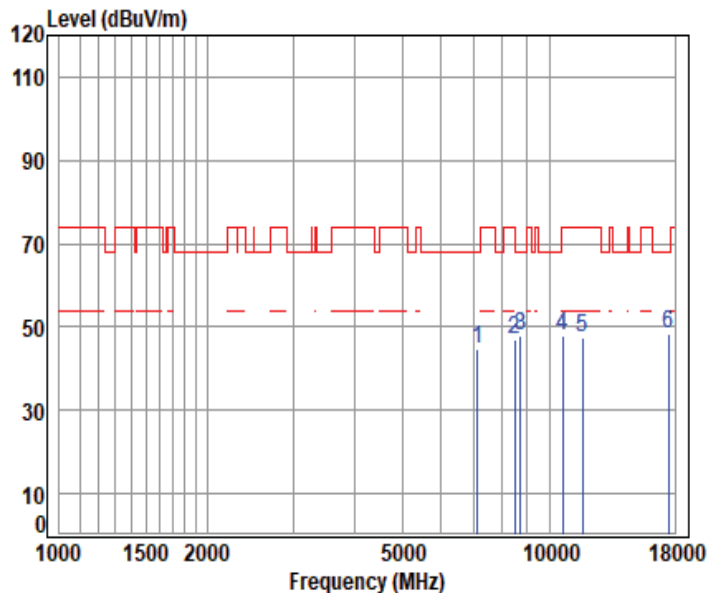
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7352.564	11.50	36.79	56.42	53.32	45.19	74.00 -28.81 peak
2	8453.606	11.99	38.39	55.49	51.83	46.72	74.00 -27.28 peak
3	8662.807	12.04	38.45	55.30	52.40	47.59	68.20 -20.61 peak
4	10983.190	14.13	39.38	53.51	48.56	48.56	74.00 -25.44 peak
5	11650.000	14.69	39.55	53.69	46.82	47.37	74.00 -26.63 peak
6	pp17475.000	18.35	40.78	54.40	43.84	48.57	68.20 -19.63 peak



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11ax_20M_TX_CH_165_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5825 TX RSE

: 5G Wi-Fi 11ax20

	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	7124.029	11.88	36.45	56.60	53.10	44.83	68.20 -23.37 peak
2	8488.119	12.23	38.32	55.46	51.73	46.82	74.00 -27.18 peak
3	8724.793	12.13	38.55	55.25	52.42	47.85	68.20 -20.35 peak
4	10620.150	13.68	39.32	53.73	48.60	47.87	74.00 -26.13 peak
5	11650.000	14.69	39.55	53.69	46.70	47.25	74.00 -26.75 peak
6	pp17475.000	18.35	40.78	54.40	43.68	48.41	68.20 -19.79 peak



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

Page: 78 of 661

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: 24.5 °C

Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar



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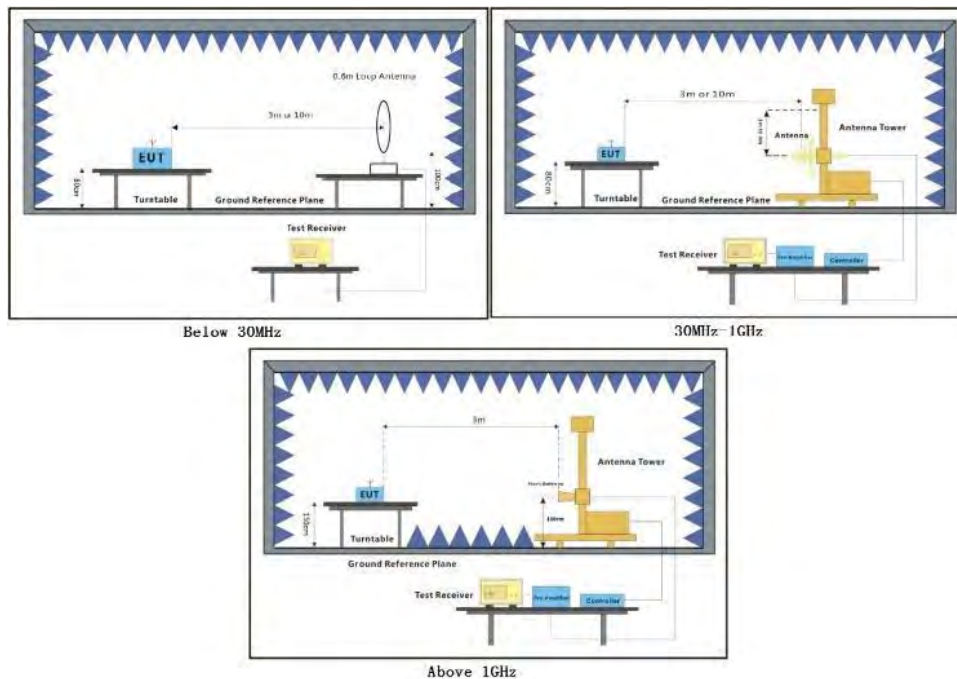
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7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

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.

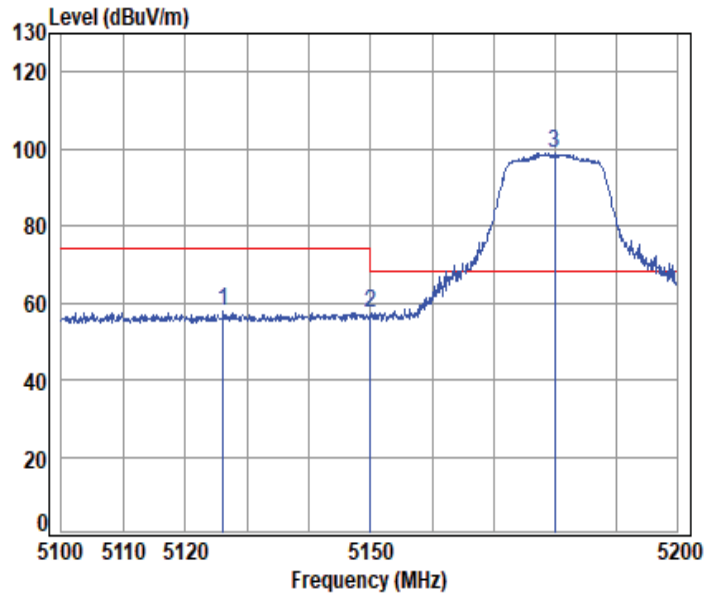
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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.



11a_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

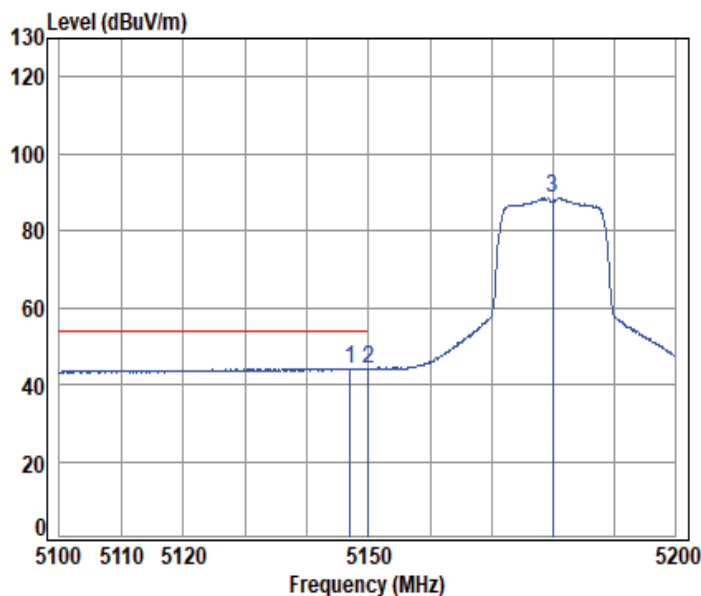
Mode : 5180 Band edge

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5126.112	10.05	32.35	30.85	46.12	57.67	74.00	-16.33	peak
2	5149.980	10.14	32.40	30.84	45.61	57.31	74.00	-16.69	peak
3 pp	5180.000	10.25	32.46	30.83	87.07	98.95	68.20	30.75	peak



11a_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5146.958	10.13	32.39	30.84	32.47	44.15	54.00	-9.85 Average
2 pp	5149.980	10.14	32.40	30.84	32.47	44.17	54.00	-9.83 Average
3	5180.000	10.25	32.46	30.83	76.60	88.48	-----	----- Average



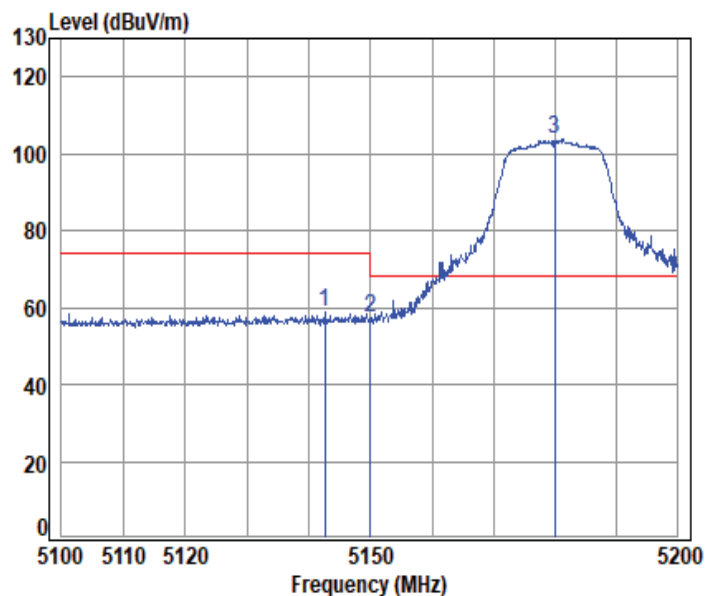
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11a_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5142.563	10.11	32.39	30.84	47.04	58.70	74.00	-15.30 peak
2	5149.980	10.14	32.40	30.84	45.68	57.38	74.00	-16.62 peak
3 pp	5180.000	10.25	32.46	30.83	91.96	103.84	68.20	35.64 peak



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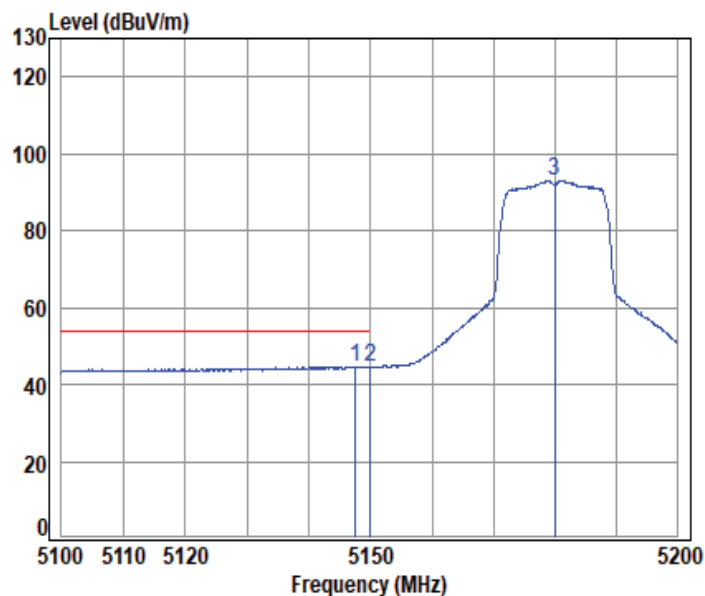
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11a_TX_CH_36_Verical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5147.558	10.13	32.40	30.84	32.93	44.62	54.00	-9.38 Average
2	5149.980	10.14	32.40	30.84	32.88	44.58	54.00	-9.42 Average
3	5180.000	10.25	32.46	30.83	81.09	92.97	-----	----- Average



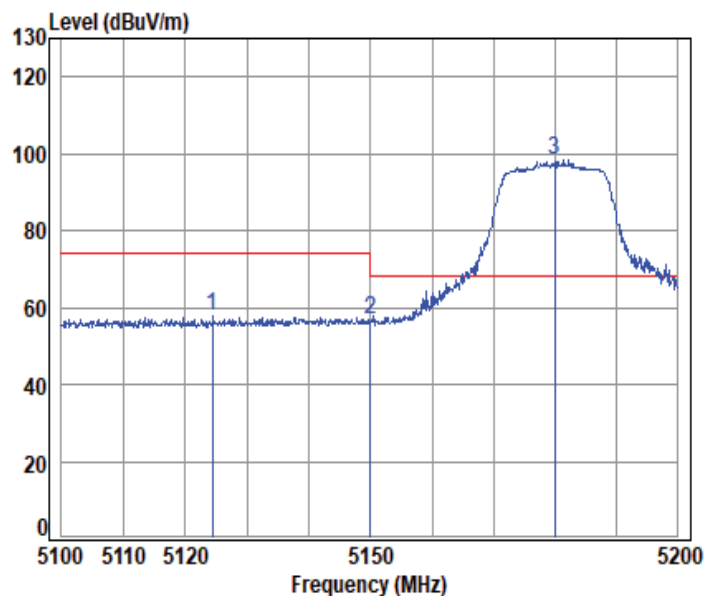
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11ac_VHT(20M)_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11ac20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5124.420	10.04	32.35	30.85	46.08	57.62	74.00	-16.38 peak
2	5149.980	10.14	32.40	30.84	45.14	56.84	74.00	-17.16 peak
3 pp	5180.000	10.25	32.46	30.83	86.42	98.30	68.20	30.10 peak



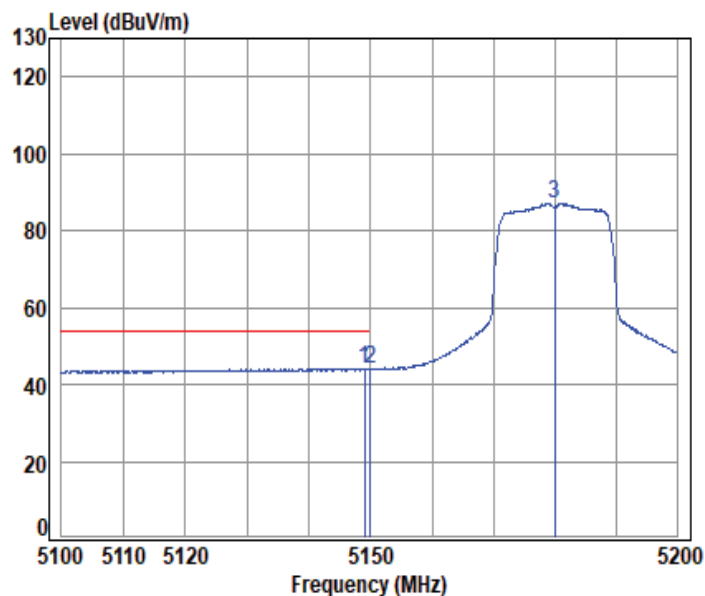
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11ac_VHT(20M)_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11ac20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5148.958	10.14	32.40	30.84	32.44	44.14	54.00	-9.86 Average
2	5149.980	10.14	32.40	30.84	32.29	43.99	54.00	-10.01 Average
3	5180.000	10.25	32.46	30.83	75.19	87.07	-----	----- Average



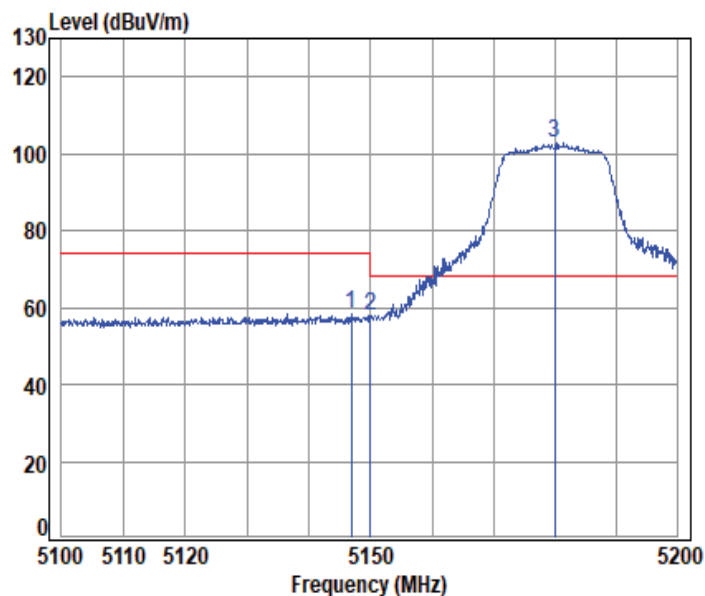
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11ac_VHT(20M)_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

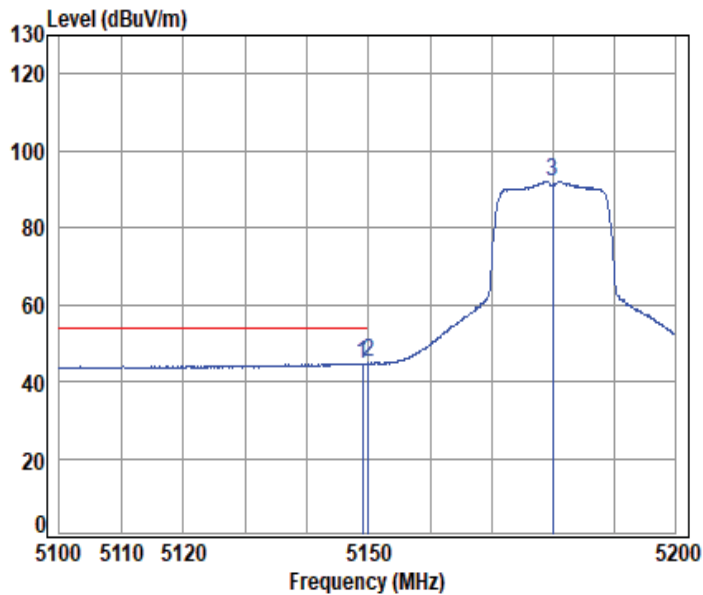
Mode : 5180 Band edge

: 5G Wi-Fi 11ac20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5146.858	10.13	32.39	30.84	46.73	58.41	74.00 -15.59 peak
2	5149.980	10.14	32.40	30.84	46.37	58.07	74.00 -15.93 peak
3 pp	5180.000	10.25	32.46	30.83	90.87	102.75	68.20 34.55 peak



11ac_VHT(20M)_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11ac20

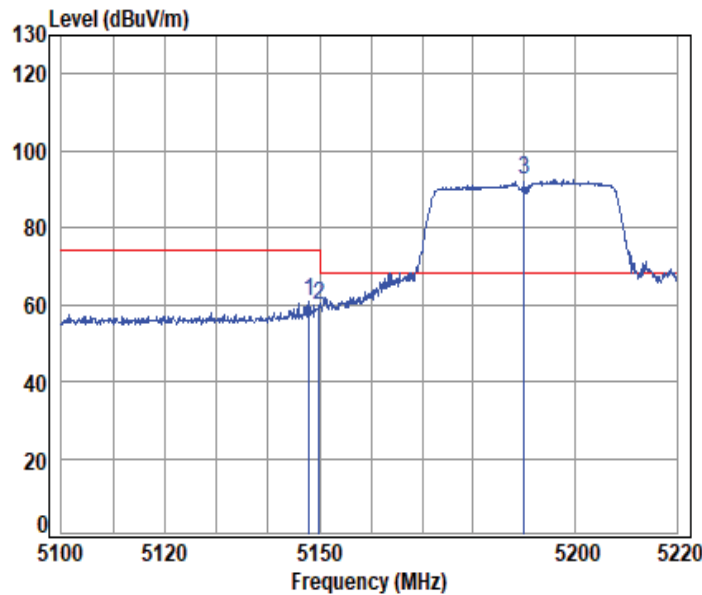
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.057	10.14	32.40	30.84	33.03	44.73	54.00 -9.27 Average
2	pp 5149.980	10.14	32.40	30.84	33.07	44.77	54.00 -9.23 Average
3	5180.000	10.25	32.46	30.83	80.01	91.89	----- Average



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11ac_VHT(40M)_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

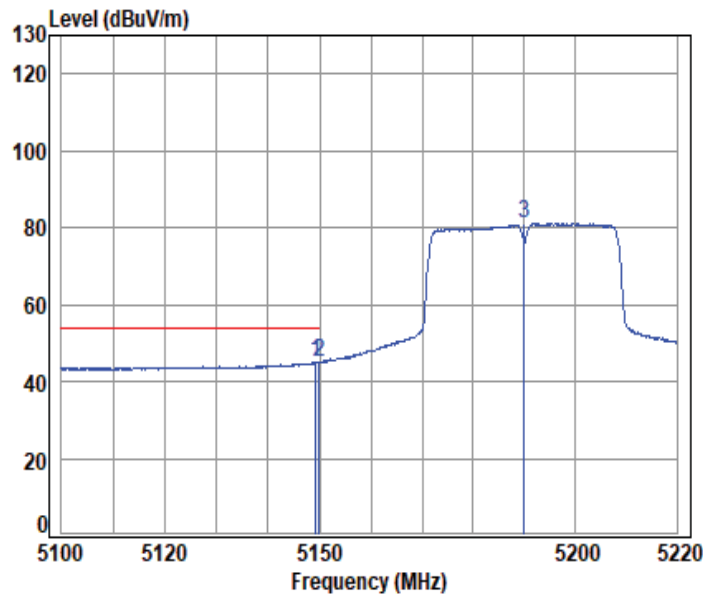
Mode : 5190 Band edge

: 5G Wi-Fi 11ac40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.024	10.13	32.40	30.84	49.03	60.72	74.00 -13.28 peak
2	5149.980	10.14	32.40	30.84	48.27	59.97	74.00 -14.03 peak
3 pp	5190.000	10.29	32.48	30.82	80.61	92.56	68.20 24.36 peak



11ac_VHT(40M)_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5190 Band edge

: 5G Wi-Fi 11ac40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.342	10.14	32.40	30.84	33.21	44.91	54.00	-9.09 Average
2	pp 5149.980	10.14	32.40	30.84	33.33	45.03	54.00	-8.97 Average
3	5190.000	10.29	32.48	30.82	69.07	81.02	-----	----- Average



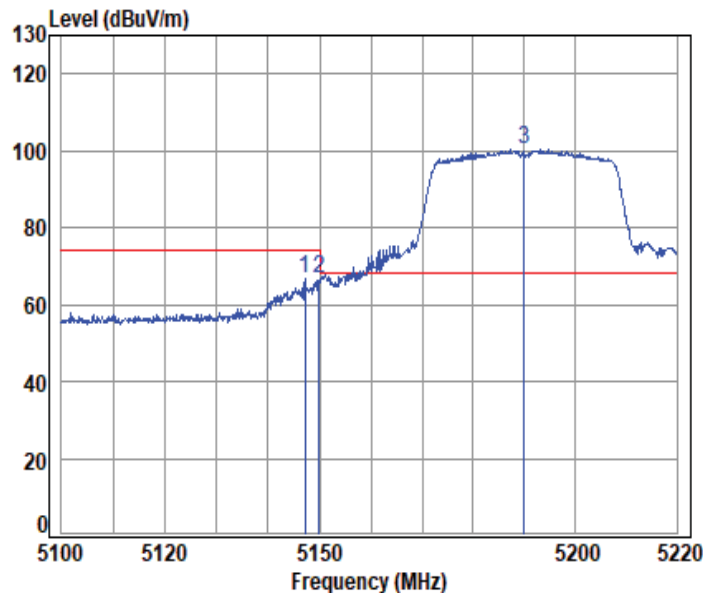
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11ac_VHT(40M)_TX_CH_38_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5190 Band edge

: 5G Wi-Fi 11ac40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.187	10.13	32.39	30.84	55.23	66.91	74.00 -7.09 peak
2	5149.980	10.14	32.40	30.84	54.96	66.66	74.00 -7.34 peak
3 pp	5190.000	10.29	32.48	30.82	88.33	100.28	68.20 32.08 peak



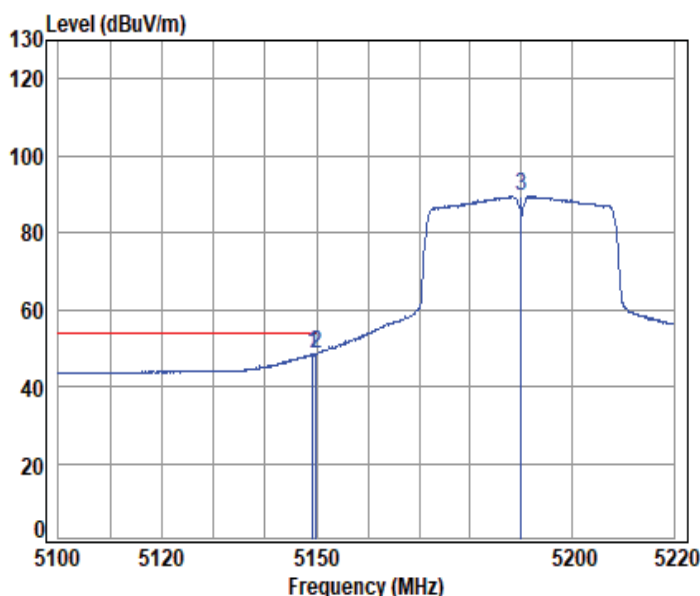
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11ac_VHT(40M)_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5190 Band edge

: 5G Wi-Fi 11ac40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.342	10.14	32.40	30.84	36.87	48.57	54.00	-5.43 Average
2 pp	5149.980	10.14	32.40	30.84	36.95	48.65	54.00	-5.35 Average
3	5190.000	10.29	32.48	30.82	77.49	89.44	-----	----- Average



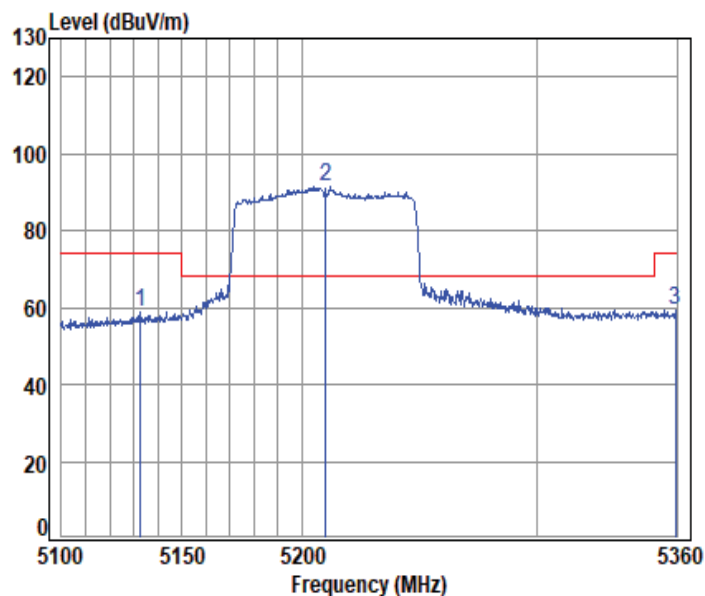
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11ac_VHT(80M)_TX_CH_42_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5132.818	10.07	32.37	30.85	47.45	59.04	74.00 -14.96 peak
2	pp 5210.000	10.32	32.52	30.82	79.61	91.63	68.20 23.43 peak
3	5359.467	10.48	32.80	30.76	47.03	59.55	74.00 -14.45 peak



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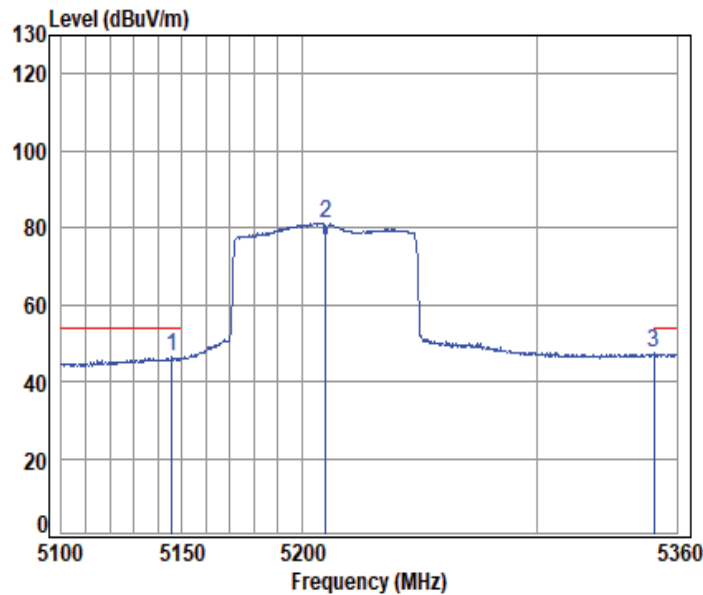
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SZEMC-TRF-01 Rev. A/1

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11ac_VHT(80M)_TX_CH_42_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5145.851	10.12	32.39	30.84	34.65	46.32	54.00 -7.68 Average
2	5210.000	10.32	32.52	30.82	69.12	81.14	----- Average
3 pp	5350.148	10.45	32.80	30.76	34.78	47.27	54.00 -6.73 Average



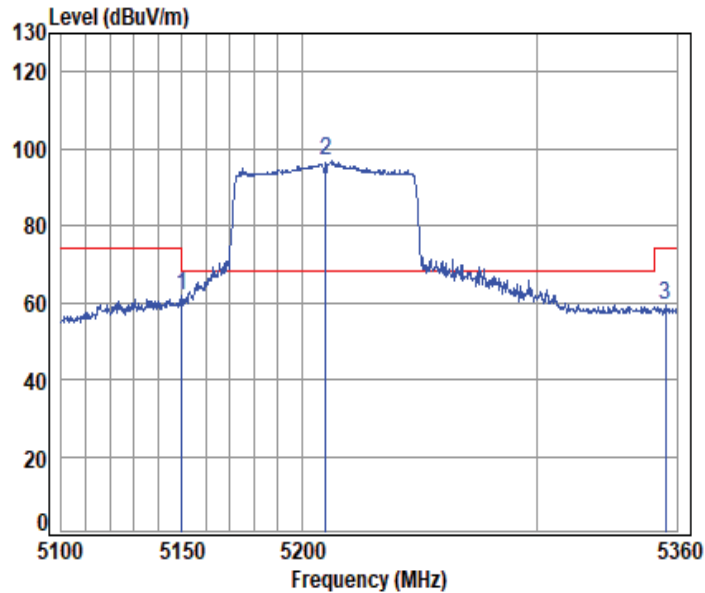
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11ac_VHT(80M)_TX_CH_42_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

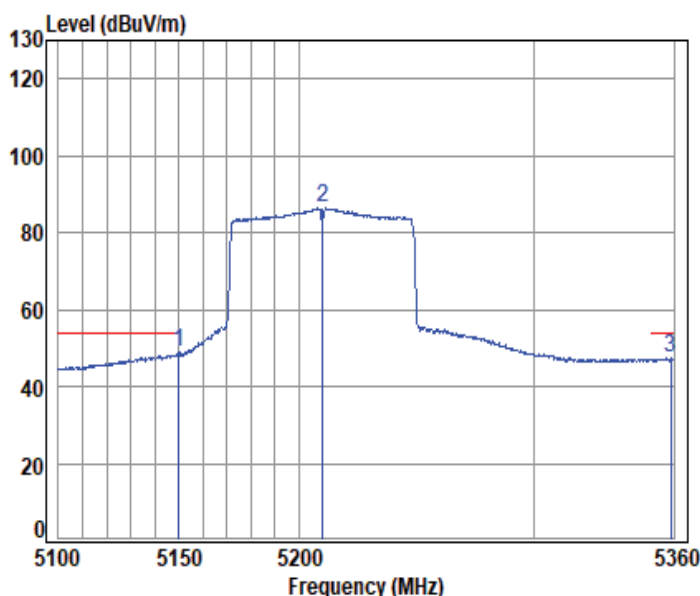
Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.947	10.14	32.40	30.84	50.33	62.03	74.00	-11.97 peak
2	pp 5210.000	10.32	32.52	30.82	84.70	96.72	68.20	28.52 peak
3	5355.205	10.47	32.80	30.76	46.65	59.16	74.00	-14.84 peak



11ac_VHT(80M)_TX_CH_42_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

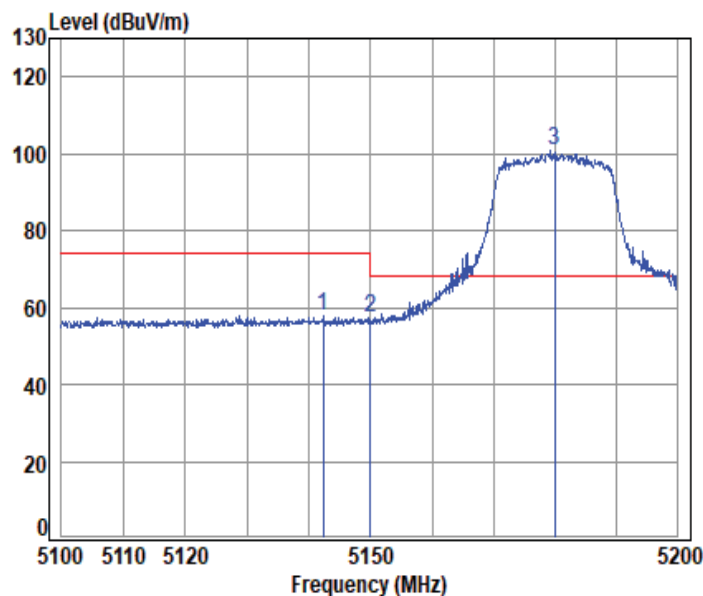
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.947	10.14	32.40	30.84	37.11	48.81	54.00	-5.19	Average
2	5210.000	10.32	32.52	30.82	74.34	86.36	-----	-----	Average
3	5358.667	10.48	32.80	30.76	34.78	47.30	54.00	-6.70	Average



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11ax_20M_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11ax20

	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	5142.263	10.11	32.38	30.84	46.15	57.80	74.00 -16.20 peak
2	5149.980	10.14	32.40	30.84	45.78	57.48	74.00 -16.52 peak
3 pp	5180.000	10.25	32.46	30.83	88.89	100.77	68.20 32.57 peak



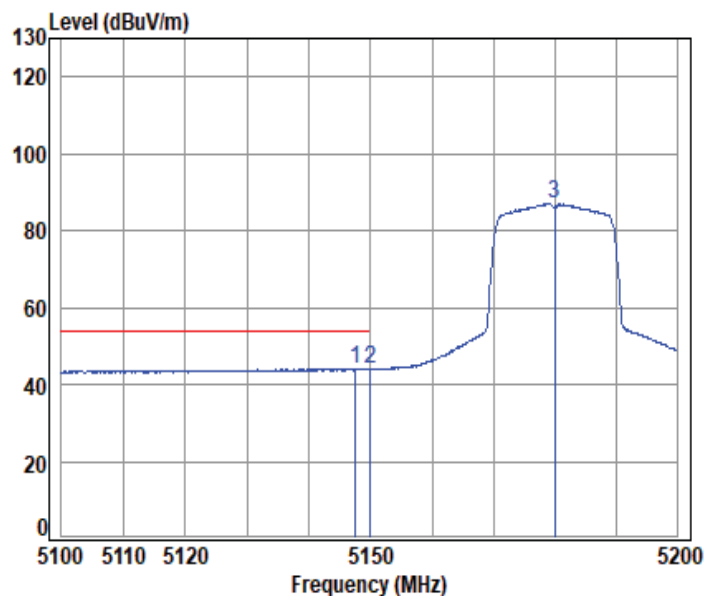
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11ax_20M_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5147.558	10.13	32.40	30.84	32.46	44.15	54.00	-9.85	Average
2	5149.980	10.14	32.40	30.84	32.29	43.99	54.00	-10.01	Average
3	5180.000	10.25	32.46	30.83	75.29	87.17	-----	-----	Average



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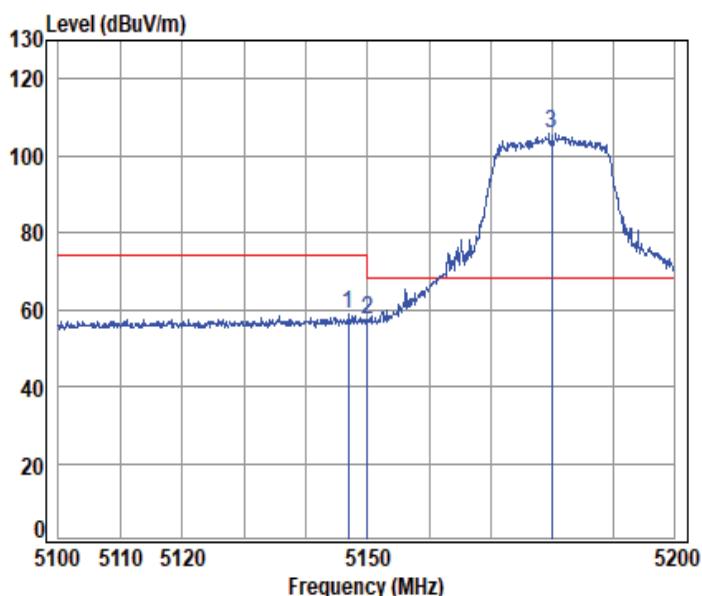
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11ax_20M_TX_CH_36_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11ax20

	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	5146.858	10.13	32.39	30.84	47.06	58.74	74.00 -15.26 peak
2	5149.980	10.14	32.40	30.84	45.70	57.40	74.00 -16.60 peak
3 pp	5180.000	10.25	32.46	30.83	93.94	105.82	68.20 37.62 peak



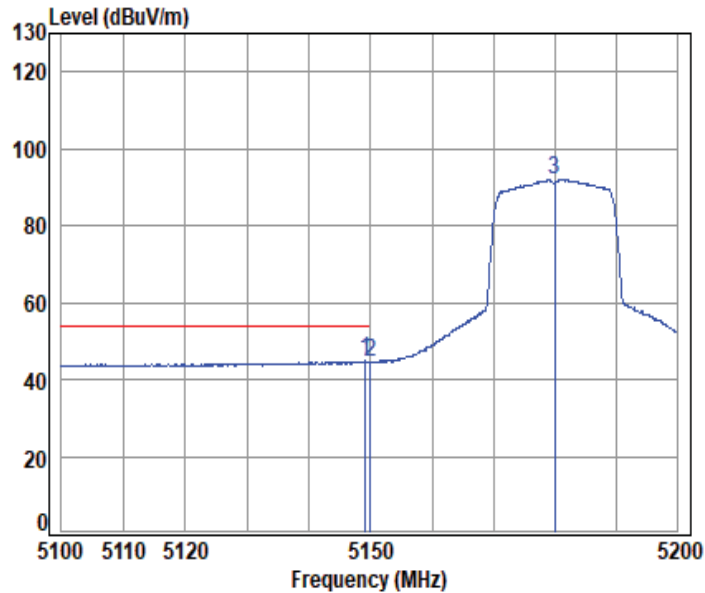
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11ax_20M_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5149.157	10.14	32.40	30.84	33.04	44.74	54.00	-9.26 Average
2	5149.980	10.14	32.40	30.84	32.92	44.62	54.00	-9.38 Average
3	5180.000	10.25	32.46	30.83	80.06	91.94	-----	----- Average



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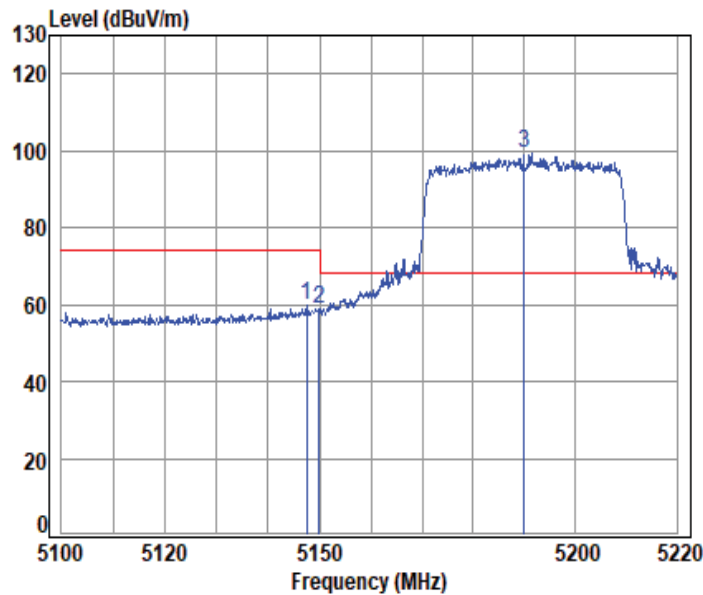
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11ax_40M_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5190 Band edge

: 5G Wi-Fi 11ax40

	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	5147.426	10.13	32.39	30.84	48.07	59.75	74.00 -14.25 peak
2	5149.980	10.14	32.40	30.84	47.15	58.85	74.00 -15.15 peak
3 pp	5190.000	10.29	32.48	30.82	87.31	99.26	68.20 31.06 peak



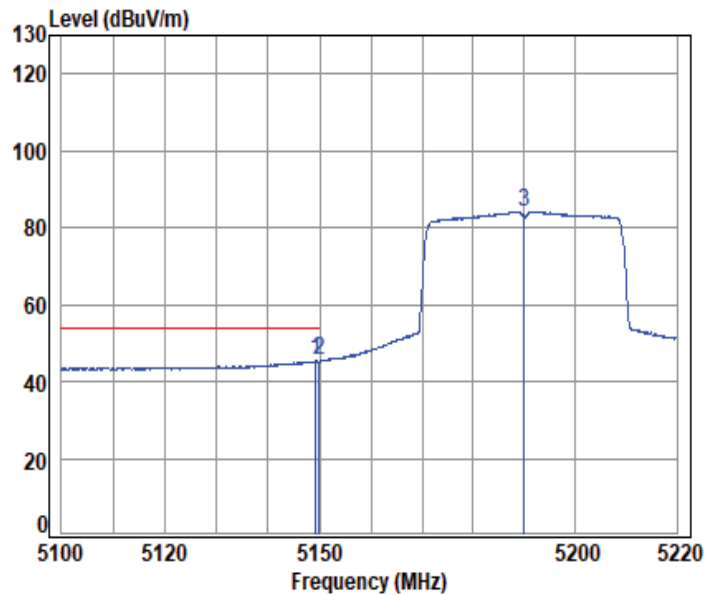
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11ax_40M_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5190 Band edge

: 5G Wi-Fi 11ax40

		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	5149.342	10.14	32.40	30.84	33.66	45.36	54.00	-8.64 Average
2 pp	5149.980	10.14	32.40	30.84	33.68	45.38	54.00	-8.62 Average
3	5190.000	10.29	32.48	30.82	72.26	84.21	-----	----- Average



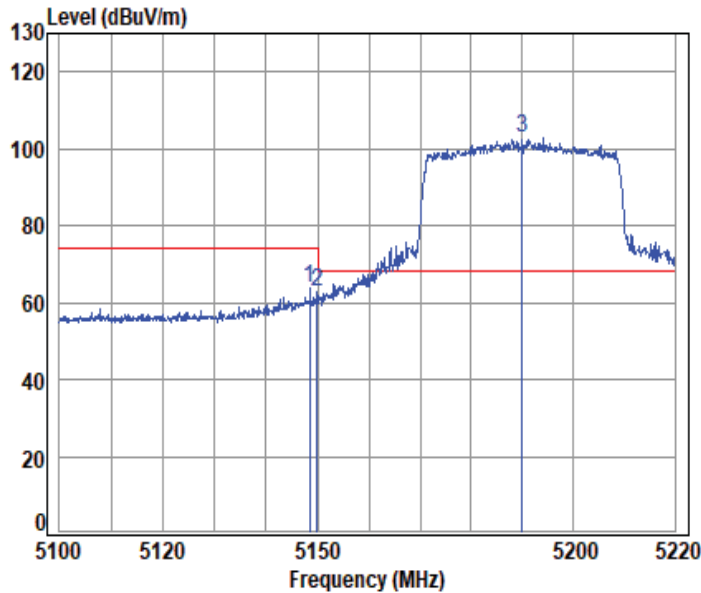
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11ax_40M_TX_CH_38_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5190 Band edge

: 5G Wi-Fi 11ax40

	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	5148.503	10.13	32.40	30.84	51.88	63.57	74.00 -10.43 peak
2	5149.980	10.14	32.40	30.84	51.08	62.78	74.00 -11.22 peak
3 pp	5190.000	10.29	32.48	30.82	90.97	102.92	68.20 34.72 peak



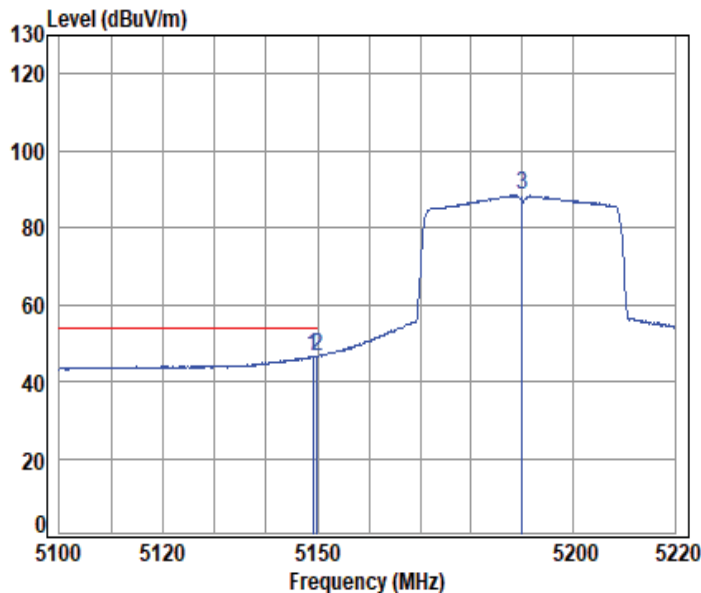
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11ax_40M_TX_CH_38_Veritical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5190 Band edge

: 5G Wi-Fi 11ax40

		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	5149.102	10.14	32.40	30.84	34.77	46.47	54.00	-7.53 Average
2 pp	5149.980	10.14	32.40	30.84	34.85	46.55	54.00	-7.45 Average
3	5190.000	10.29	32.48	30.82	76.44	88.39	-----	----- Average



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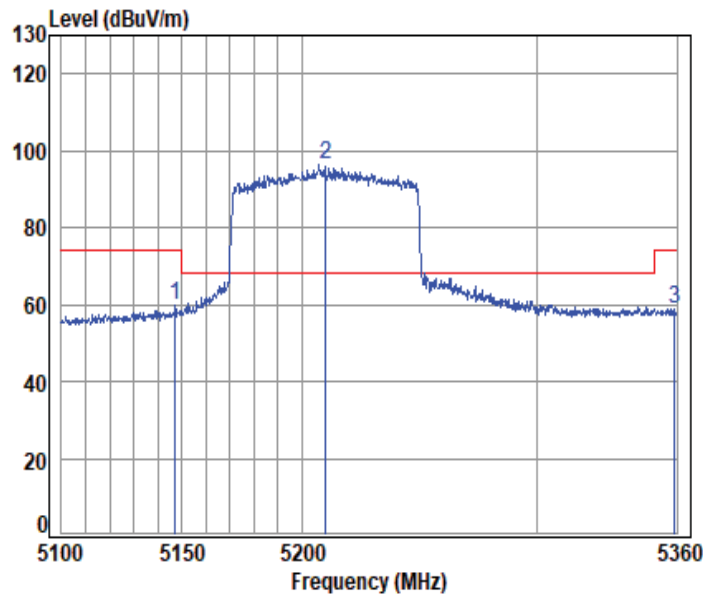
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11ax_80M_TX_CH_42_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ax80

	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	5147.130	10.13	32.39	30.84	48.08	59.76	74.00 -14.24 peak
2	pp 5210.000	10.32	32.52	30.82	84.31	96.33	68.20 28.13 peak
3	5358.934	10.48	32.80	30.76	46.47	58.99	74.00 -15.01 peak



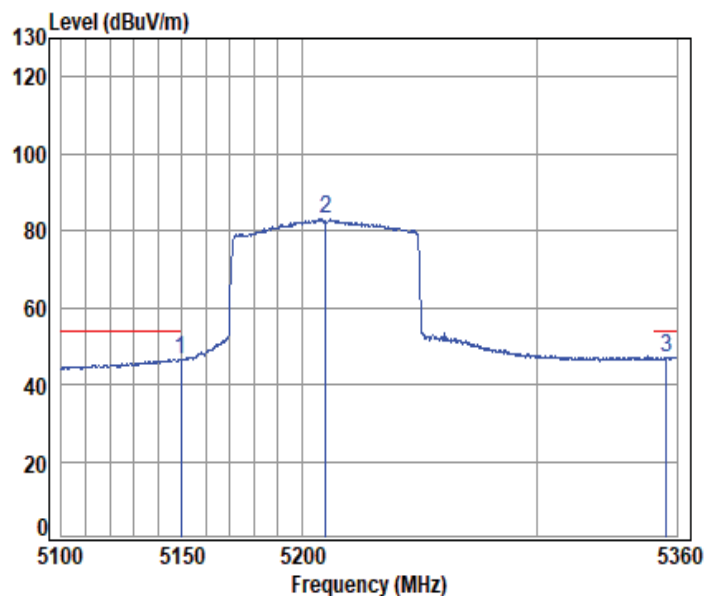
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11ax_80M_TX_CH_42_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ax80

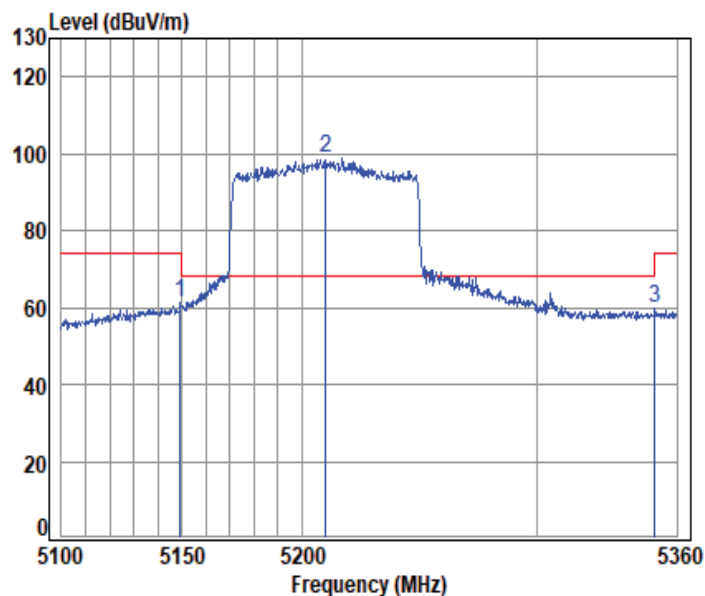
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.435	10.14	32.40	30.84	34.85	46.55	54.00 -7.45 Average
2	5210.000	10.32	32.52	30.82	71.23	83.25	----- Average
3 pp	5355.471	10.47	32.80	30.76	34.62	47.13	54.00 -6.87 Average



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11ax_80M_TX_CH_42_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ax80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.178	10.14	32.40	30.84	49.36	61.06	74.00	-12.94	peak
2 pp	5210.000	10.32	32.52	30.82	86.76	98.78	68.20	30.58	peak
3	5350.414	10.45	32.80	30.76	47.26	59.75	74.00	-14.25	peak



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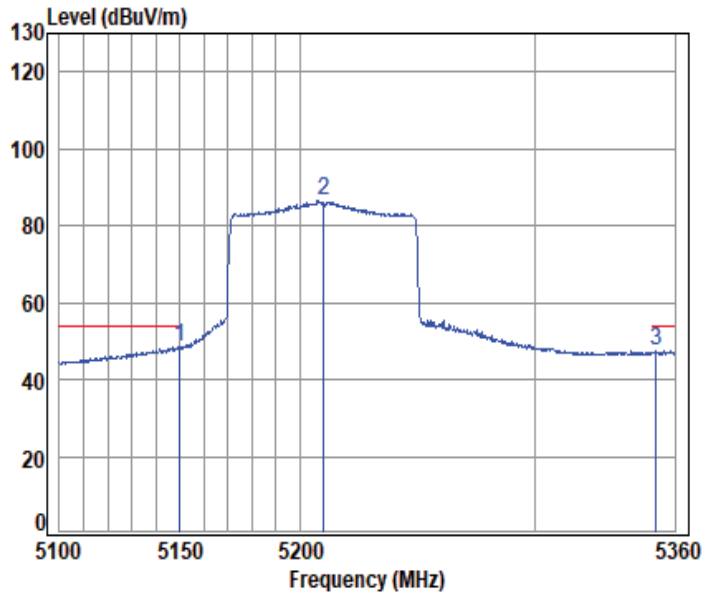
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

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11ax_80M_TX_CH_42_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ax80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.947	10.14	32.40	30.84	36.91	48.61	54.00	-5.39	Average
2	5210.000	10.32	32.52	30.82	74.46	86.48	-----	-----	Average
3	5351.744	10.46	32.80	30.76	34.83	47.33	54.00	-6.67	Average



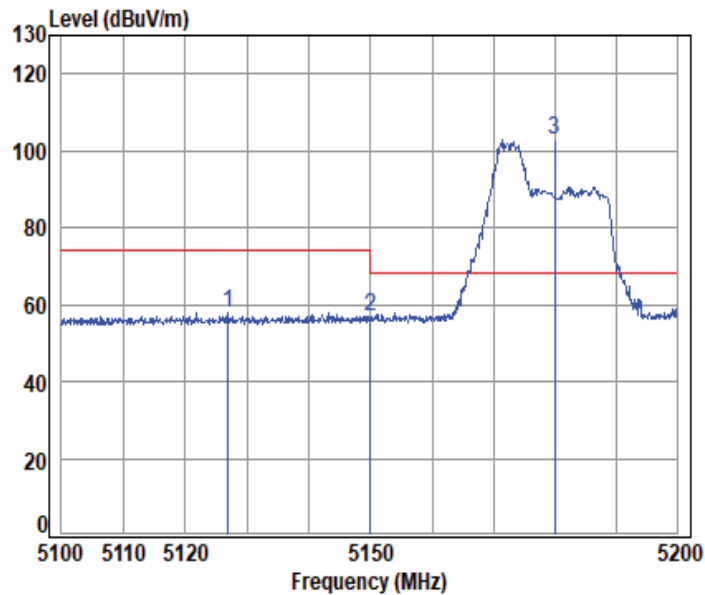
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11ax_20M_Partial_RU52_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11ax20 RU52

	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	5126.909	10.05	32.35	30.85	46.26	57.81	74.00 -16.19 peak
2	5149.980	10.14	32.40	30.84	45.15	56.85	74.00 -17.15 peak
3 pp	5180.000	10.25	32.46	30.83	90.98	102.86	68.20 34.66 peak



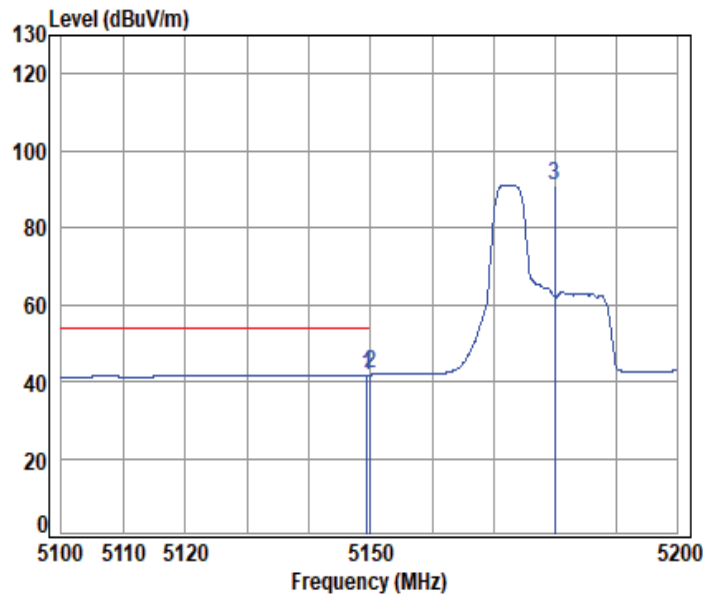
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11ax_20M_Partial_RU52_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5180 Band edge

: 5G Wi-Fi 11ax20 RU52

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.458	10.14	32.40	30.84	30.06	41.76	54.00	-12.24 Average
2 pp	5149.980	10.14	32.40	30.84	30.07	41.77	54.00	-12.23 Average
3	5180.000	10.25	32.46	30.83	78.95	90.83	-----	----- Average



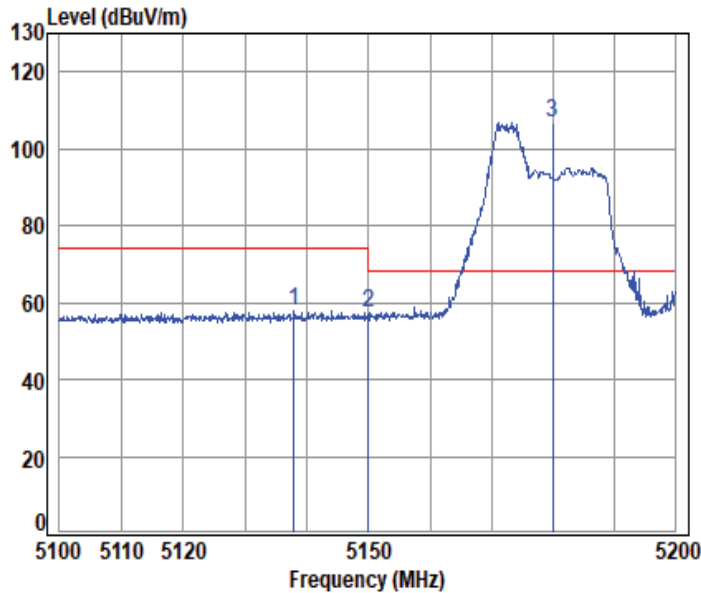
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11ax_20M_Partial_RU52_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

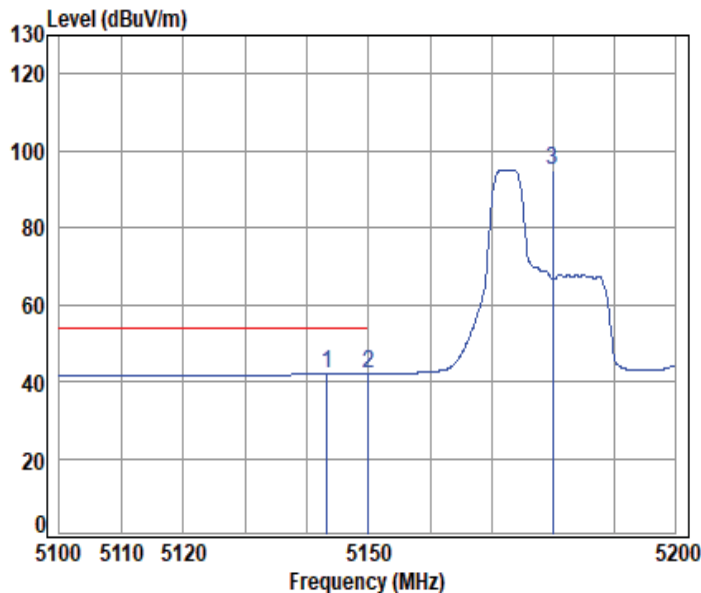
Mode : 5180 Band edge

: 5G Wi-Fi 11ax20 RU52

	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	5137.871	10.09	32.38	30.84	46.22	57.85	74.00 -16.15 peak
2	5149.980	10.14	32.40	30.84	45.45	57.15	74.00 -16.85 peak
3 pp	5180.000	10.25	32.46	30.83	94.93	106.81	68.20 38.61 peak



11ax_20M_Partial_RU52_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

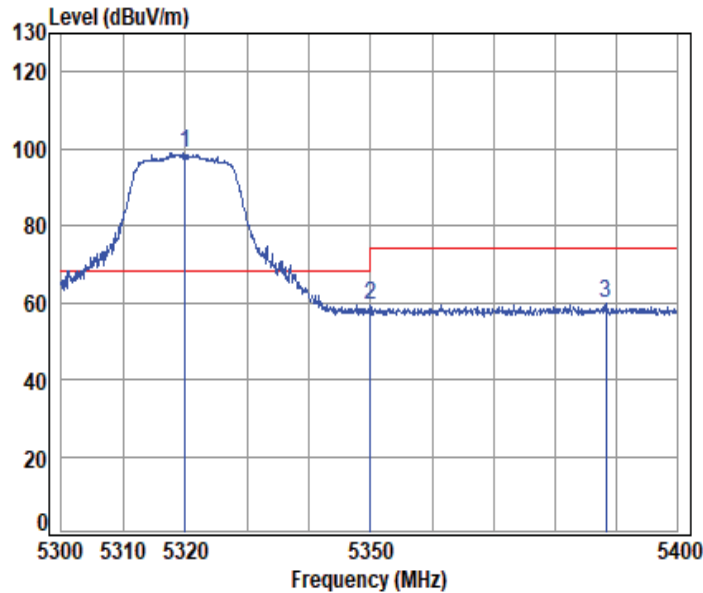
Mode : 5180 Band edge

: 5G Wi-Fi 11ax20 RU52

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5143.262	10.11	32.39	30.84	30.36	42.02	54.00	-11.98	Average
2	5149.980	10.14	32.40	30.84	30.31	42.01	54.00	-11.99	Average
3	5180.000	10.25	32.46	30.83	83.04	94.92	-----	-----	Average



11a_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	86.61	98.93	68.20	30.73	peak
2	5350.020	10.45	32.80	30.76	46.83	59.32	74.00	-14.68	peak
3	5388.405	10.58	32.80	30.74	47.07	59.71	74.00	-14.29	peak



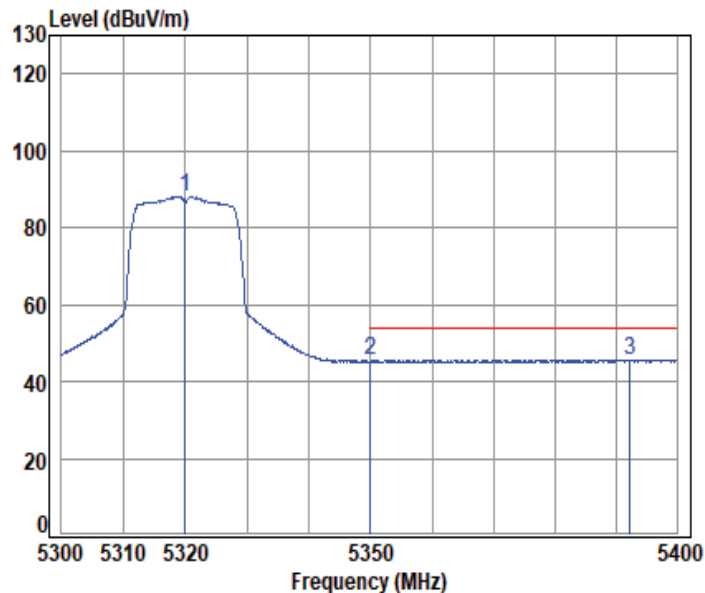
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11a_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	10.35	32.74	30.77	75.67	87.99	----- Average
2	5350.020	10.45	32.80	30.76	32.77	45.26	54.00 -8.74 Average
3	pp 5392.334	10.59	32.80	30.74	32.98	45.63	54.00 -8.37 Average



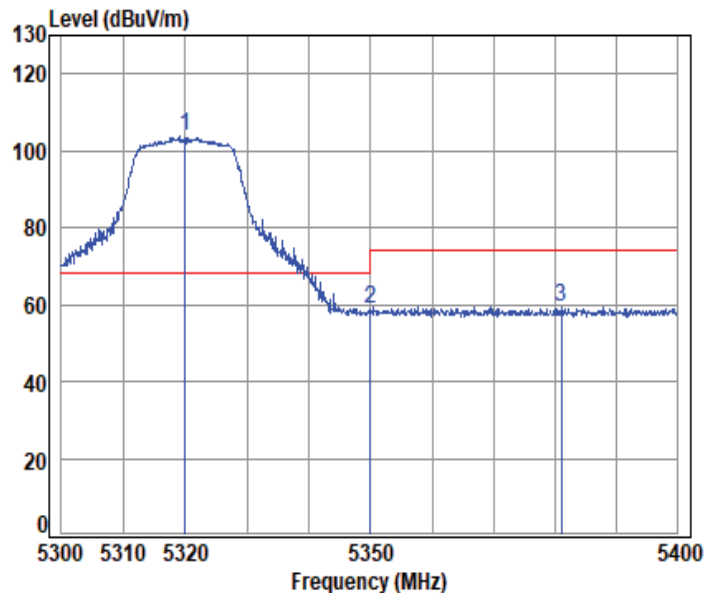
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11a_TX_CH_64_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	91.42	103.74	68.20	35.54	peak
2	5350.020	10.45	32.80	30.76	46.19	58.68	74.00	-15.32	peak
3	5381.057	10.56	32.80	30.75	46.90	59.51	74.00	-14.49	peak



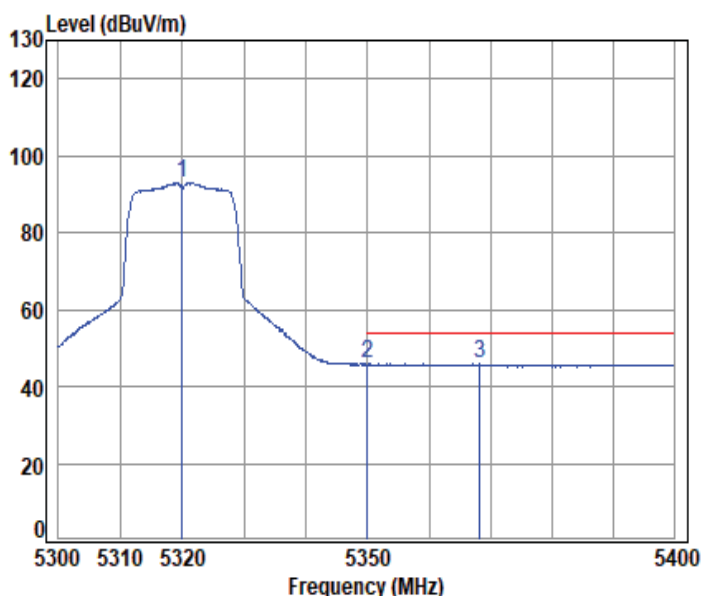
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

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11a_TX_CH_64_Verical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	10.35	32.74	30.77	80.70	93.02	----- Average
2	5350.020	10.45	32.80	30.76	33.24	45.73	54.00 -8.27 Average
3 pp	5368.298	10.51	32.80	30.75	33.29	45.85	54.00 -8.15 Average



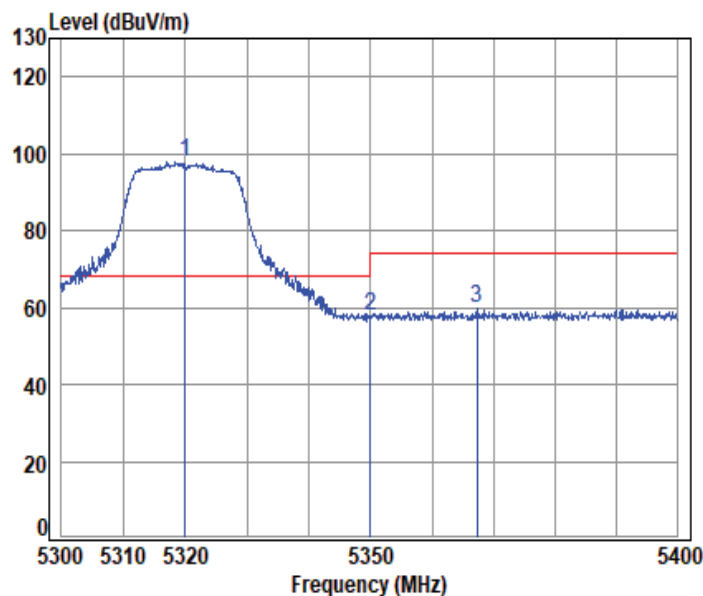
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11ac_VHT(20M)_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

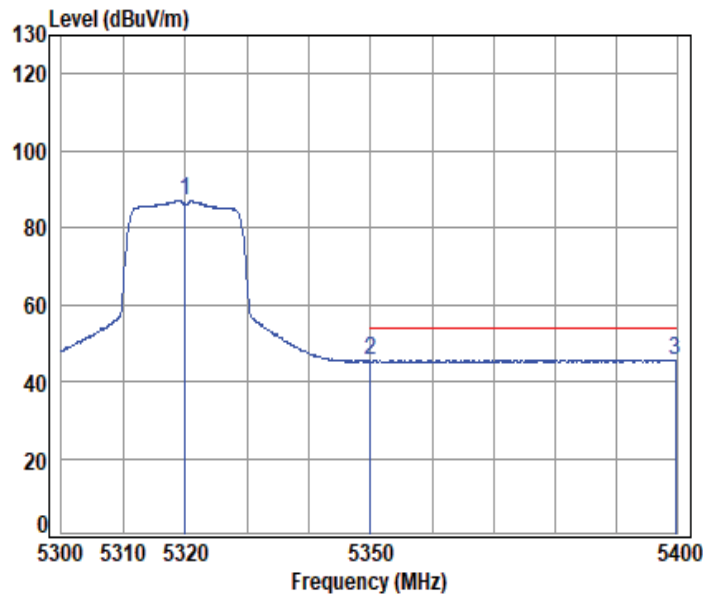
Mode : 5320 Band edge

: 5G Wi-Fi 11ac20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5320.000	10.35	32.74	30.77	85.63	97.95	68.20	29.75 peak
2 5350.020	10.45	32.80	30.76	45.54	58.03	74.00	-15.97 peak
3 5367.295	10.51	32.80	30.75	47.11	59.67	74.00	-14.33 peak



11ac_VHT(20M)_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11ac20

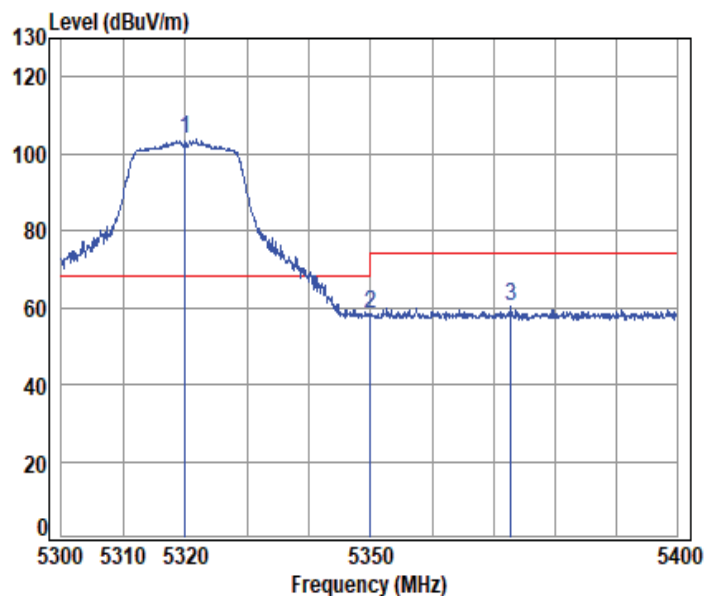
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	10.35	32.74	30.77	74.78	87.10	----- Average
2	5350.020	10.45	32.80	30.76	32.76	45.25	54.00 -8.75 Average
3	pp 5399.798	10.62	32.80	30.74	32.98	45.66	54.00 -8.34 Average



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11ac_VHT(20M)_TX_CH_64_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11ac20

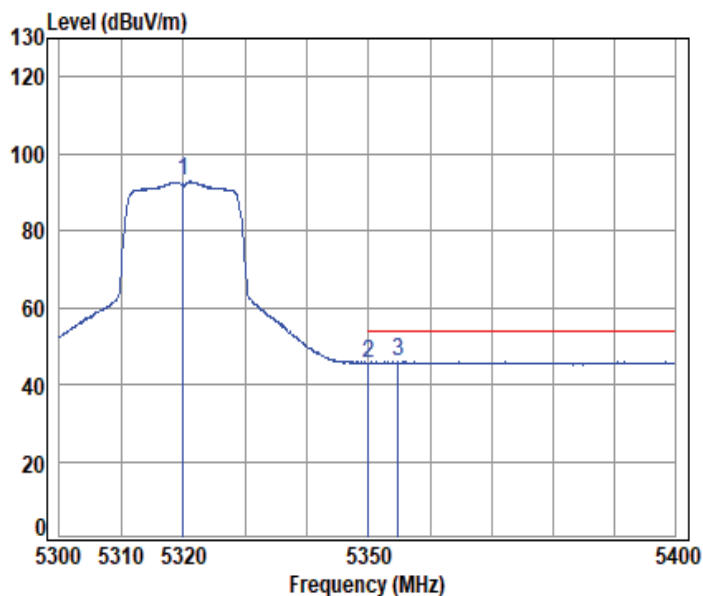
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5320.000	10.35	32.74	30.77	91.63	103.95	68.20	35.75	peak
2 5350.020	10.45	32.80	30.76	45.79	58.28	74.00	-15.72	peak
3 5372.916	10.53	32.80	30.75	47.61	60.19	74.00	-13.81	peak



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11ac_VHT(20M)_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11ac20

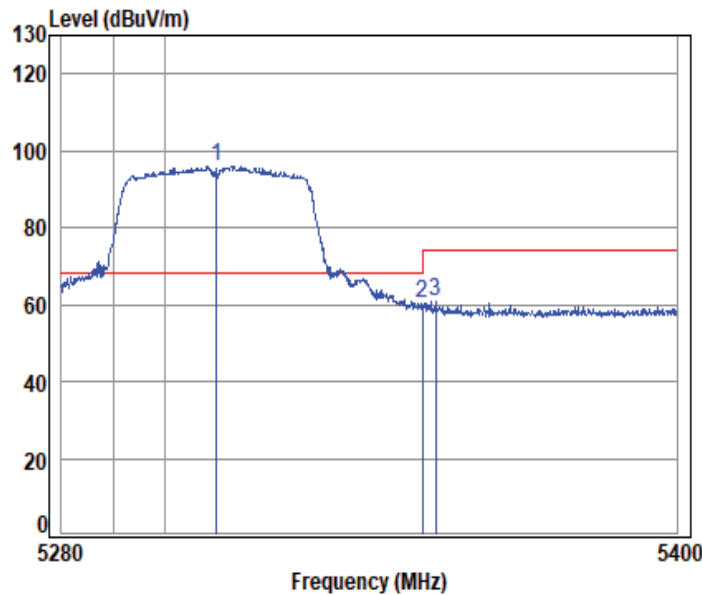
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5320.000	10.35	32.74	30.77	80.48	92.80	-----	----- Average
2 5350.020	10.45	32.80	30.76	33.23	45.72	54.00	-8.28 Average
3 pp 5354.869	10.47	32.80	30.76	33.42	45.93	54.00	-8.07 Average



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11ac_VHT(40M)_TX_CH_62_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5310 Band edge

: 5G Wi-Fi 11ac40

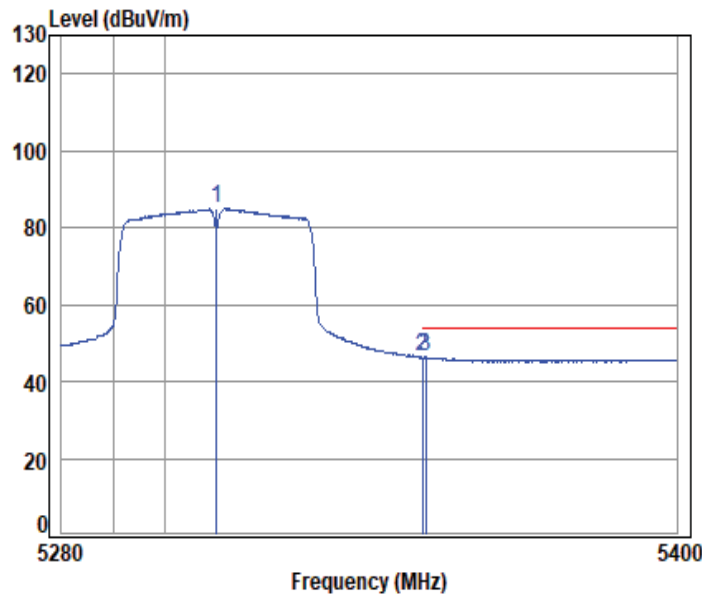
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5310.000	10.31	32.72	30.78	83.84	96.09	68.20	27.89	peak
2	5350.020	10.45	32.80	30.76	47.82	60.31	74.00	-13.69	peak
3	5352.638	10.46	32.80	30.76	48.28	60.78	74.00	-13.22	peak



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11ac_VHT(40M)_TX_CH_62_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5310 Band edge

: 5G Wi-Fi 11ac40

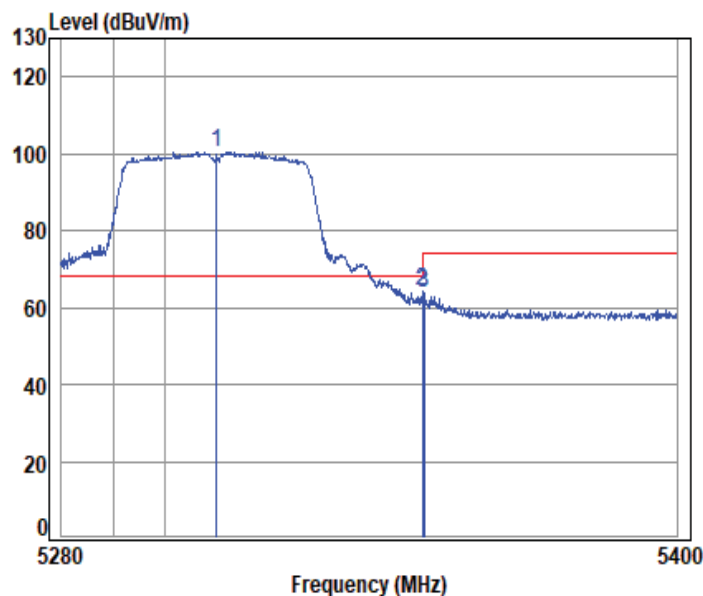
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	72.69	84.94	-----	-----	Average
2	5350.020	10.45	32.80	30.76	33.77	46.26	54.00	-7.74	Average
3 pp	5350.714	10.45	32.80	30.76	33.82	46.31	54.00	-7.69	Average



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11ac_VHT(40M)_TX_CH_62_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5310 Band edge

: 5G Wi-Fi 11ac40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	88.28	100.53	68.20	32.33	peak
2	5350.020	10.45	32.80	30.76	51.96	64.45	74.00	-9.55	peak
3	5350.474	10.45	32.80	30.76	51.14	63.63	74.00	-10.37	peak



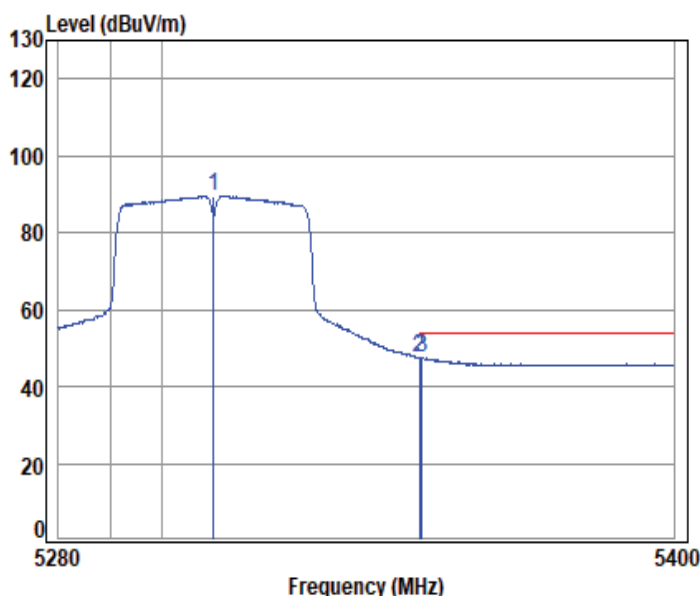
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11ac_VHT(40M)_TX_CH_62_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5310 Band edge

: 5G Wi-Fi 11ac40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5310.000	10.31	32.72	30.78	77.31	89.56	----- Average
2	pp 5350.020	10.45	32.80	30.76	35.07	47.56	54.00 -6.44 Average
3	5350.594	10.45	32.80	30.76	34.94	47.43	54.00 -6.57 Average



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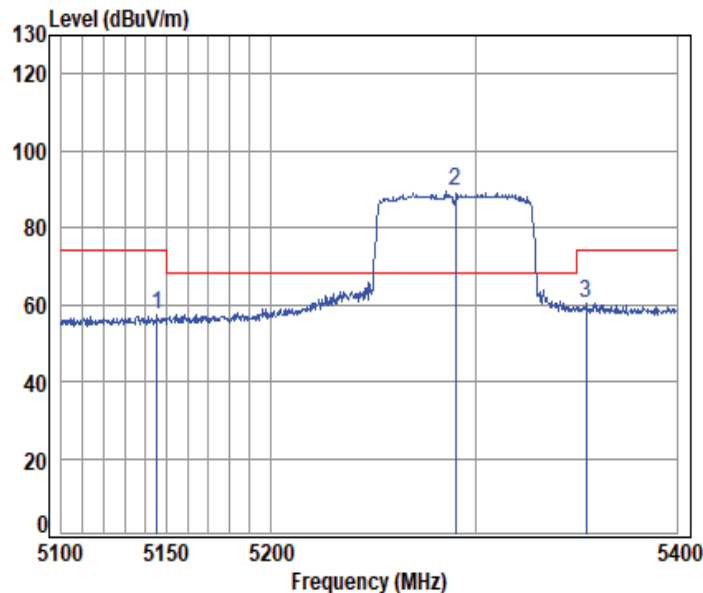
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

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11ac_VHT(80M)_TX_CH_58_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.384	10.12	32.39	30.84	45.82	57.49	74.00	-16.51	peak
2	5290.000	10.28	32.68	30.78	77.33	89.51	68.20	21.31	peak
3	5354.818	10.47	32.80	30.76	47.70	60.21	74.00	-13.79	peak



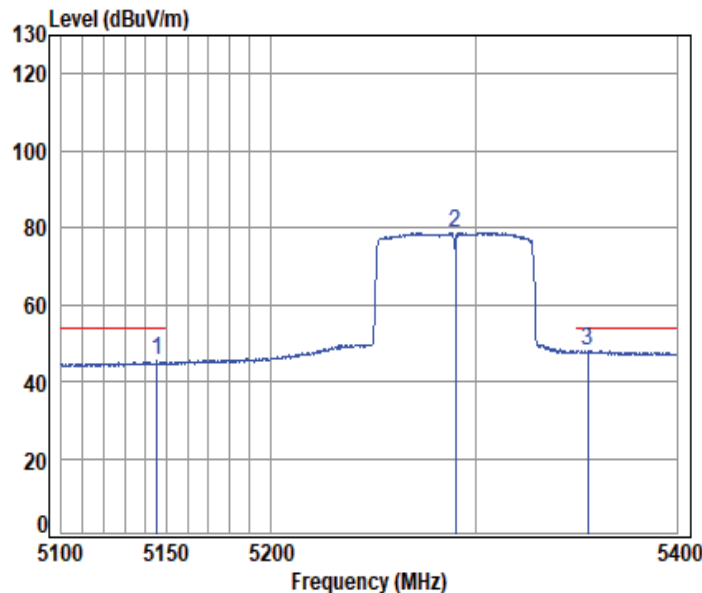
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11ac_VHT(80M)_TX_CH_58_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5145.384	10.12	32.39	30.84	33.56	45.23	54.00 -8.77 Average
2	5290.000	10.28	32.68	30.78	66.46	78.64	----- Average
3 pp	5355.736	10.47	32.80	30.76	35.52	48.03	54.00 -5.97 Average



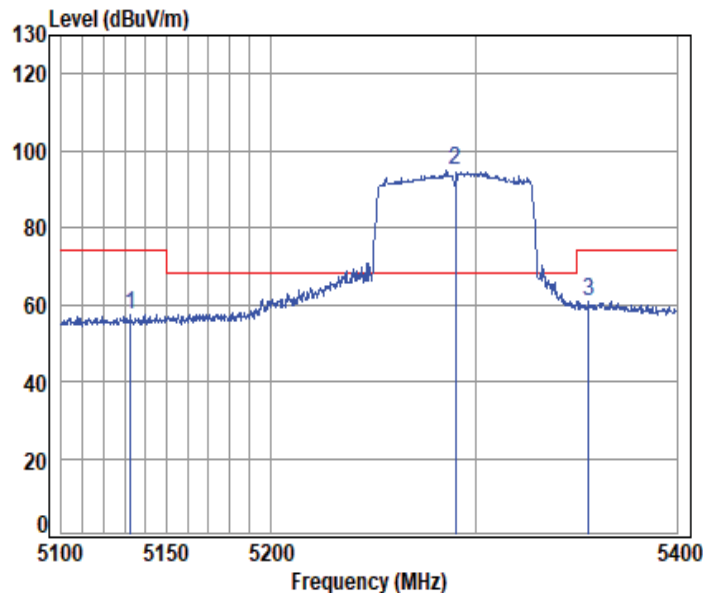
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11ac_VHT(80M)_TX_CH_58_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5133.047	10.08	32.37	30.85	45.61	57.21	74.00 -16.79 peak
2	pp 5290.000	10.28	32.68	30.78	82.73	94.91	68.20 26.71 peak
3	5356.042	10.47	32.80	30.76	48.26	60.77	74.00 -13.23 peak



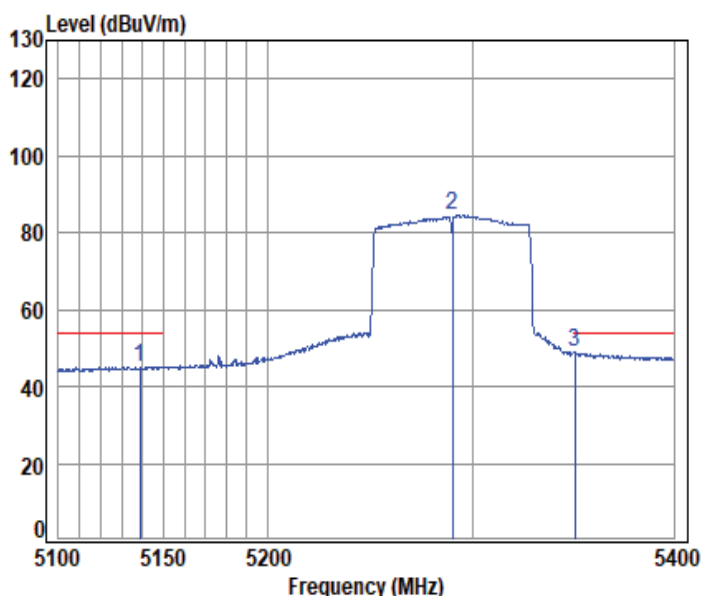
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11ac_VHT(80M)_TX_CH_58_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5138.918	10.10	32.38	30.84	33.46	45.10	54.00 -8.90 Average
2	5290.000	10.28	32.68	30.78	72.24	84.42	----- Average
3 pp	5350.535	10.45	32.80	30.76	36.26	48.75	54.00 -5.25 Average



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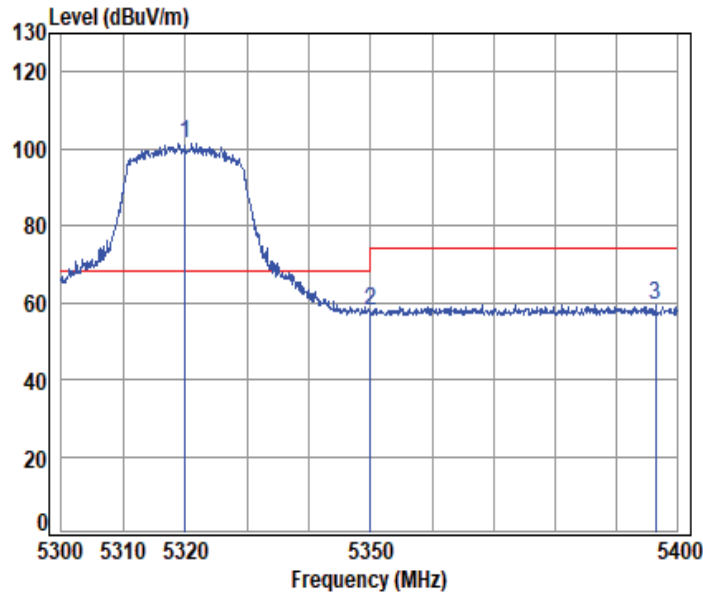
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SZEMC-TRF-01 Rev. A/1

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11ax_20M_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5320.000	10.35	32.74	30.77	89.14	101.46	68.20	33.26	peak
2	5350.020	10.45	32.80	30.76	45.46	57.95	74.00	-16.05	peak
3	5396.468	10.61	32.80	30.74	46.89	59.56	74.00	-14.44	peak



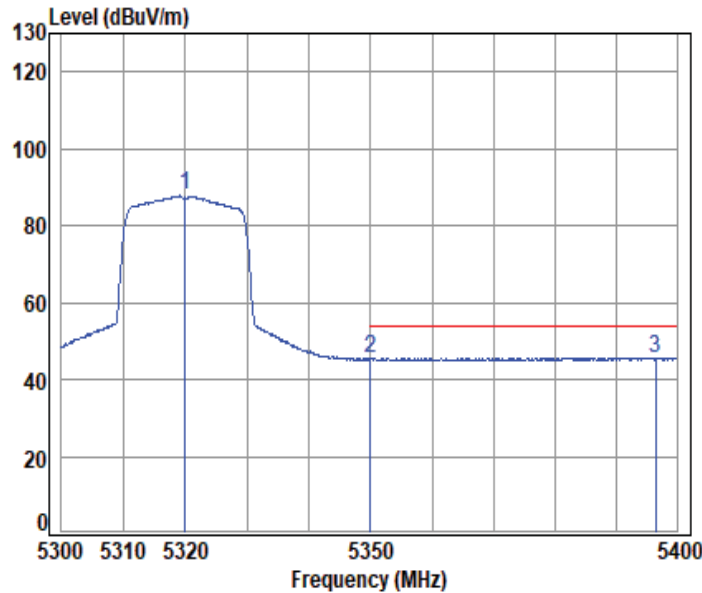
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11ax_20M_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11ax20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	10.35	32.74	30.77	75.46	87.78	----- Average
2	5350.020	10.45	32.80	30.76	33.01	45.50	54.00 -8.50 Average
3	pp 5396.569	10.61	32.80	30.74	33.00	45.67	54.00 -8.33 Average



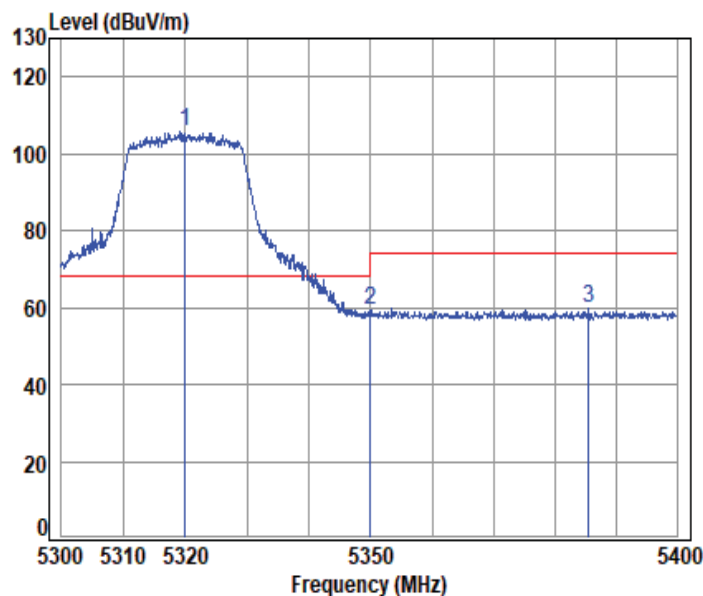
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11ax_20M_TX_CH_64_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	93.35	105.67	68.20	37.47	peak
2	5350.020	10.45	32.80	30.76	46.94	59.43	74.00	-14.57	peak
3	5385.585	10.57	32.80	30.75	47.14	59.76	74.00	-14.24	peak



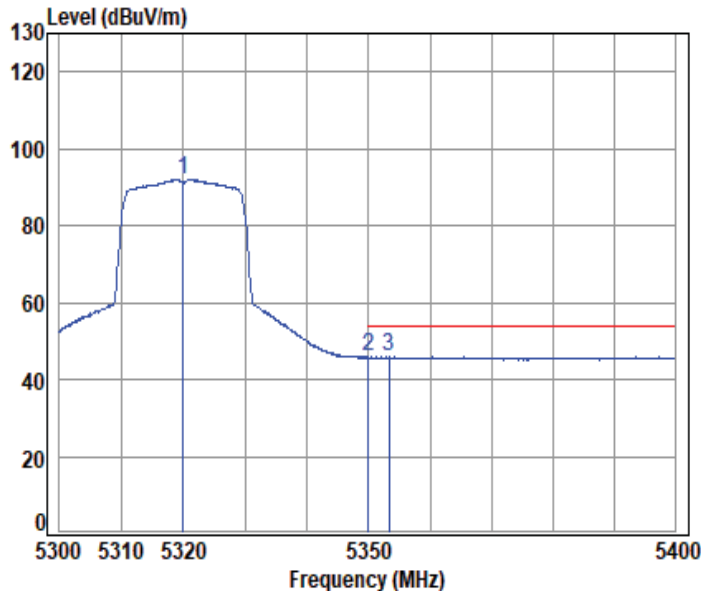
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11ax_20M_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	79.64	91.96	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	33.34	45.83	54.00	-8.17	Average
3	5353.368	10.46	32.80	30.76	33.30	45.80	54.00	-8.20	Average



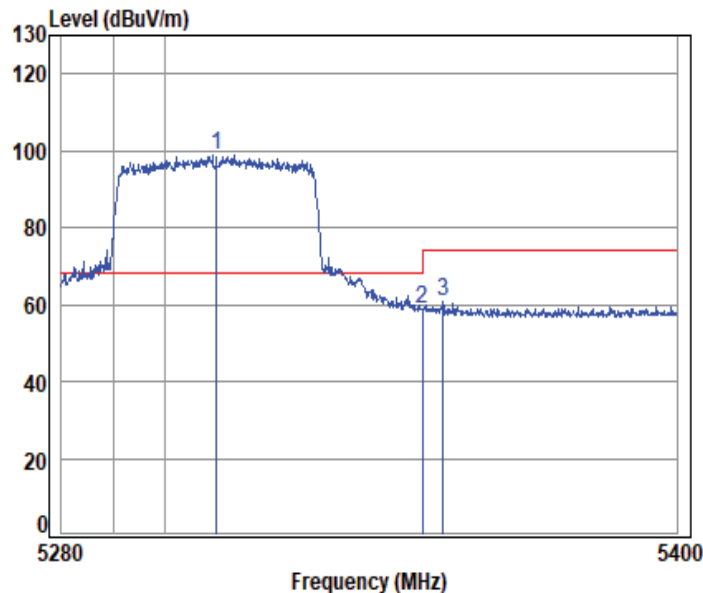
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11ax_40M_TX_CH_62_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5310 Band edge

: 5G Wi-Fi 11ax40

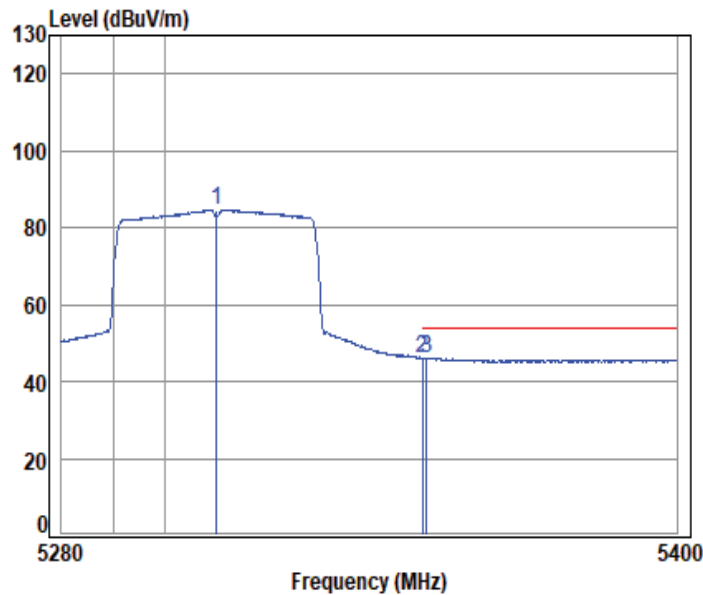
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	86.55	98.80	68.20	30.60	peak
2	5350.020	10.45	32.80	30.76	46.52	59.01	74.00	-14.99	peak
3	5354.082	10.46	32.80	30.76	48.07	60.57	74.00	-13.43	peak



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11ax_40M_TX_CH_62_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5310 Band edge

: 5G Wi-Fi 11ax40

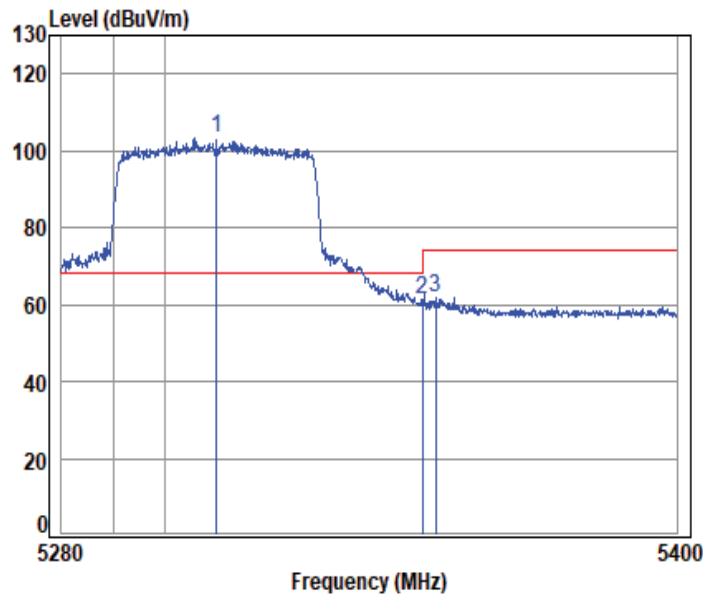
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	72.38	84.63	-----	-----	Average
2	pp 5350.020	10.45	32.80	30.76	33.71	46.20	54.00	-7.80	Average
3	5350.955	10.45	32.80	30.76	33.65	46.14	54.00	-7.86	Average



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11ax_40M_TX_CH_62_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5310 Band edge

: 5G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	90.90	103.15	68.20	34.95	peak
2	5350.020	10.45	32.80	30.76	48.69	61.18	74.00	-12.82	peak
3	5352.638	10.46	32.80	30.76	49.43	61.93	74.00	-12.07	peak



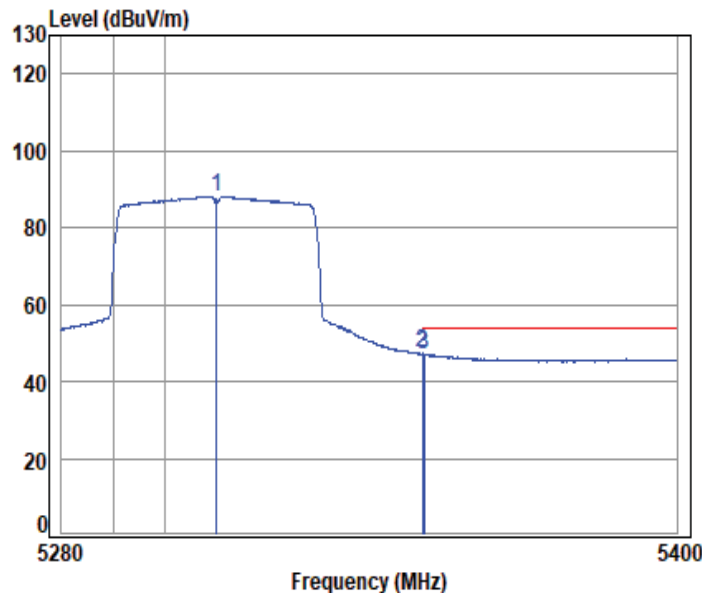
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11ax_40M_TX_CH_62_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5310 Band edge

: 5G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	75.97	88.22	-----	-----	Average
2	pp 5350.020	10.45	32.80	30.76	34.79	47.28	54.00	-6.72	Average
3	5350.474	10.45	32.80	30.76	34.69	47.18	54.00	-6.82	Average



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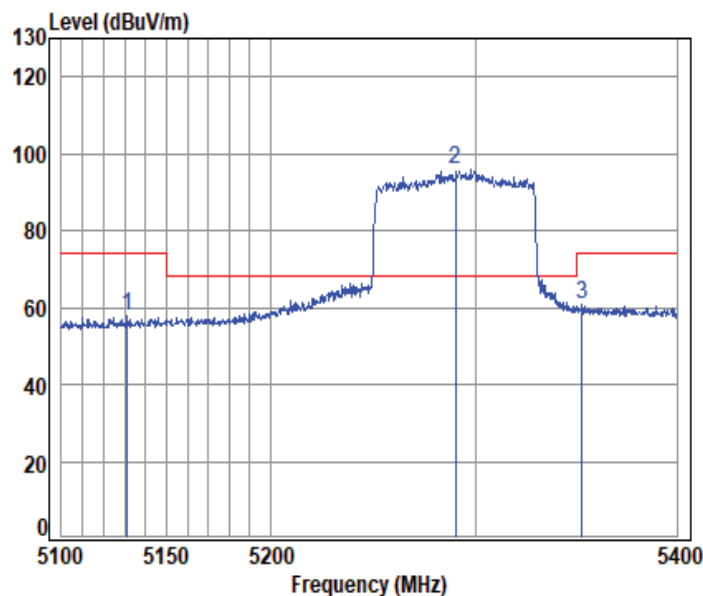
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11ax_80M_TX_CH_58_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5290 Band edge

: 5G Wi-Fi 11ax80

		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	5131.287	10.07	32.36	30.85	46.23	57.81	74.00	-16.19	peak
2	5290.000	10.28	32.68	30.78	83.78	95.96	68.20	27.76	peak
3	5352.676	10.46	32.80	30.76	48.16	60.66	74.00	-13.34	peak



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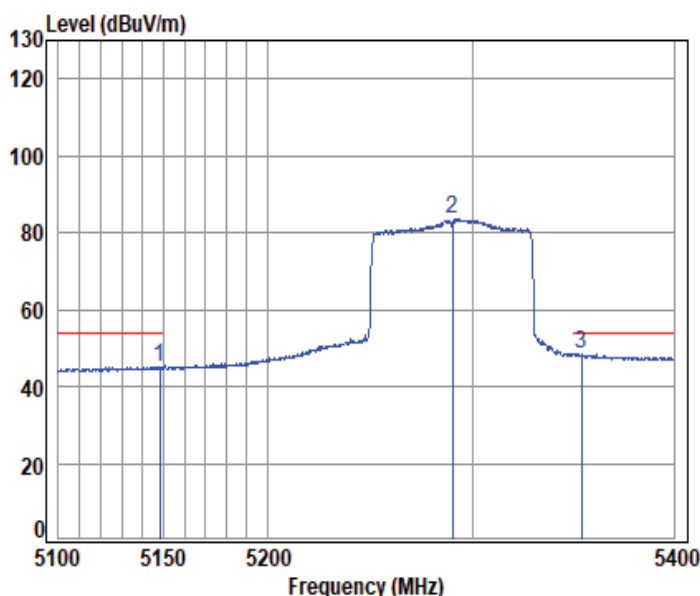
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Report No.: SZCR250500212306

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11ax_80M_TX_CH_58_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5290 Band edge

: 5G Wi-Fi 11ax80

		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	5148.326	10.13	32.40	30.84	33.38	45.07	54.00	-8.93	Average
2	5290.000	10.28	32.68	30.78	71.37	83.55	-----	-----	Average
3 pp	5353.899	10.46	32.80	30.76	35.98	48.48	54.00	-5.52	Average



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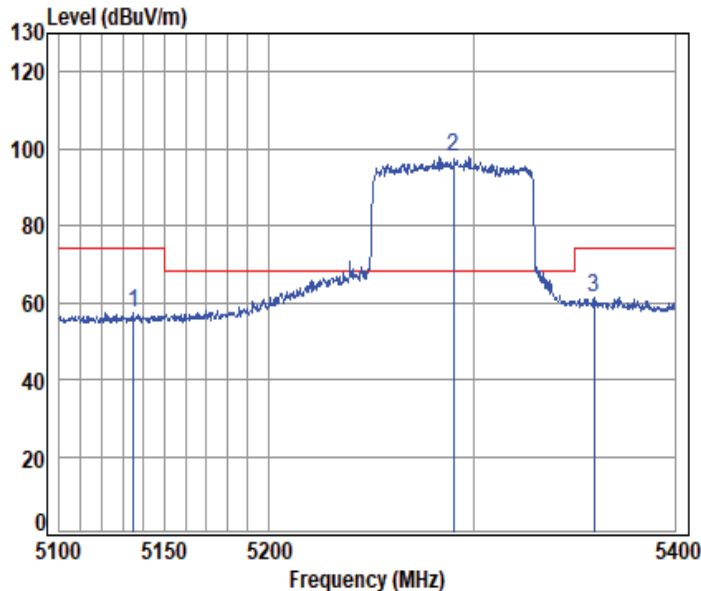
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Report No.: SZCR250500212306

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11ax_80M_TX_CH_58_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5290 Band edge

: 5G Wi-Fi 11ax80

	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	5135.101	10.08	32.37	30.85	45.71	57.31	74.00 -16.69 peak
2	pp 5290.000	10.28	32.68	30.78	85.71	97.89	68.20 29.69 peak
3	5359.717	10.48	32.80	30.76	48.76	61.28	74.00 -12.72 peak



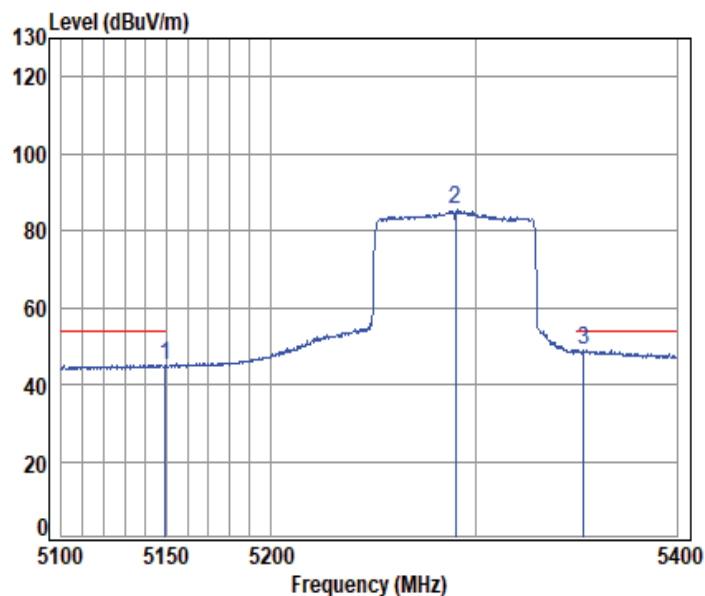
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11ax_80M_TX_CH_58_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

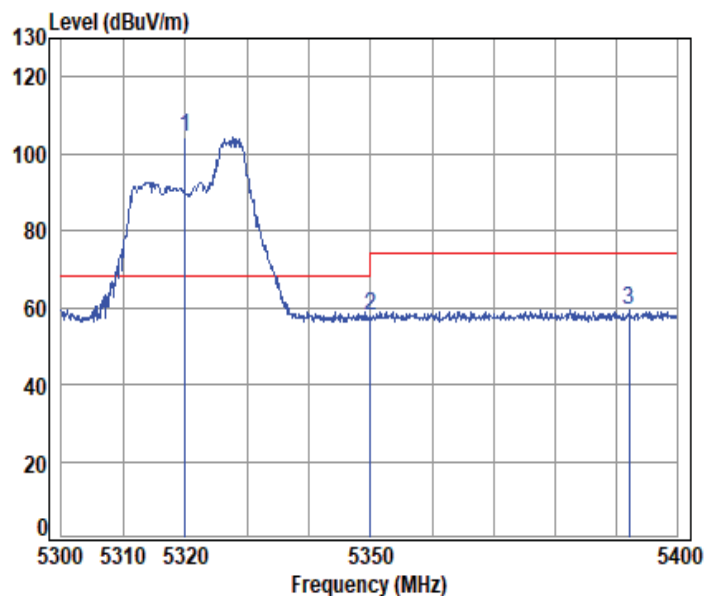
Mode : 5290 Band edge

: 5G Wi-Fi 11ax80

	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	5149.503	10.14	32.40	30.84	33.38	45.08	54.00	-8.92 Average
2	5290.000	10.28	32.68	30.78	73.18	85.36	-----	----- Average
3	pp 5353.594	10.46	32.80	30.76	36.47	48.97	54.00	-5.03 Average



11ax_20M_Partial_RU52_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

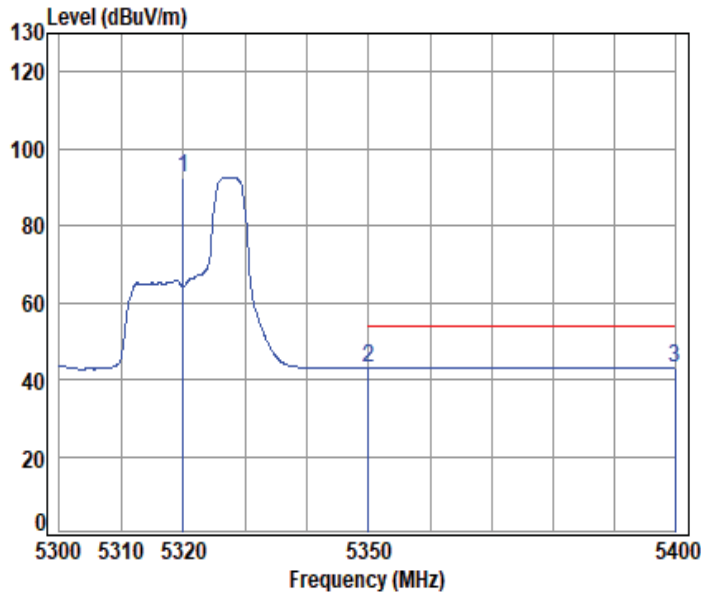
Mode : 5320 Band edge

: 5G Wi-Fi 11ax20 RU52

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	91.82	104.14	68.20	35.94	peak
2	5350.020	10.45	32.80	30.76	45.31	57.80	74.00	-16.20	peak
3	5392.233	10.59	32.80	30.74	46.62	59.27	74.00	-14.73	peak



11ax_20M_Partial_RU52_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

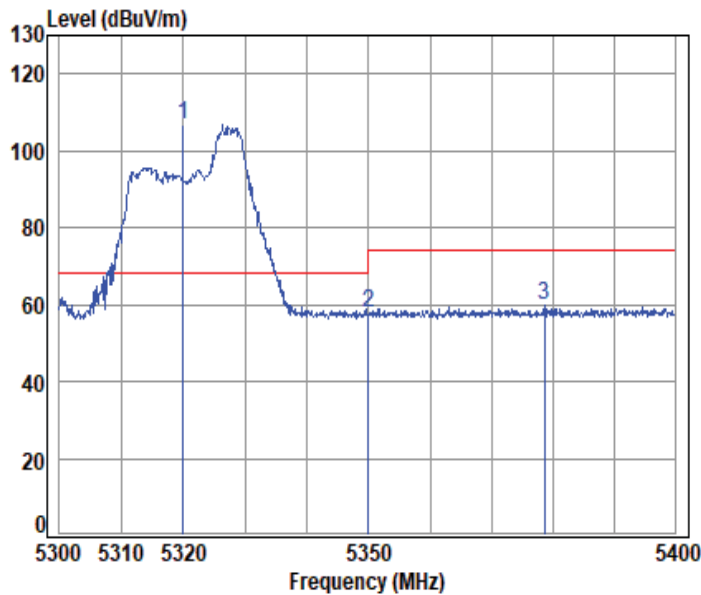
Mode : 5320 Band edge

: 5G Wi-Fi 11ax20 RU52

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5320.000	10.35	32.74	30.77	79.94	92.26	-----	----- Average
2 5350.020	10.45	32.80	30.76	30.50	42.99	54.00	-11.01 Average
3 pp 5400.000	10.62	32.80	30.74	30.51	43.19	54.00	-10.81 Average



11ax_20M_Partial_RU52_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11ax20 RU52

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	94.30	106.62	68.20	38.42	peak
2	5350.020	10.45	32.80	30.76	45.54	58.03	74.00	-15.97	peak
3	5378.644	10.55	32.80	30.75	47.08	59.68	74.00	-14.32	peak



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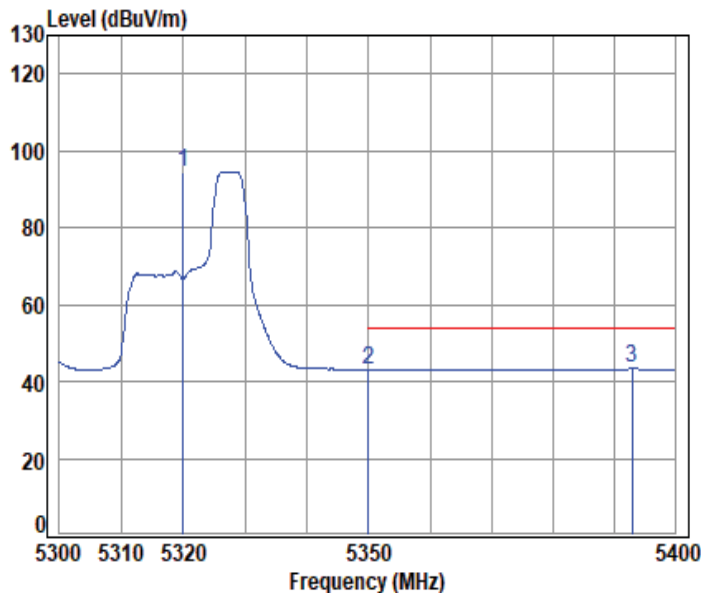
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11ax_20M_Partial_RU52_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5320 Band edge

: 5G Wi-Fi 11ax20 RU52

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5320.000	10.35	32.74	30.77	82.32	94.64	-----	----- Average
2 5350.020	10.45	32.80	30.76	30.65	43.14	54.00	-10.86 Average
3 pp 5393.040	10.60	32.80	30.74	30.61	43.27	54.00	-10.73 Average



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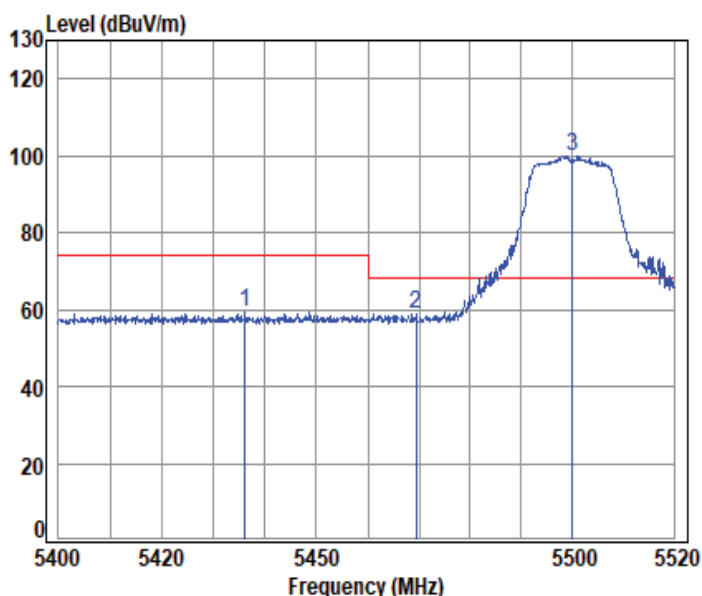
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

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11a_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5436.082	10.61	32.87	30.73	46.68	59.43	74.00 -14.57 peak
2	5469.399	10.59	32.90	30.71	46.15	58.93	68.20 -9.27 peak
3 pp	5500.000	10.58	32.90	30.70	86.97	99.75	68.20 31.55 peak



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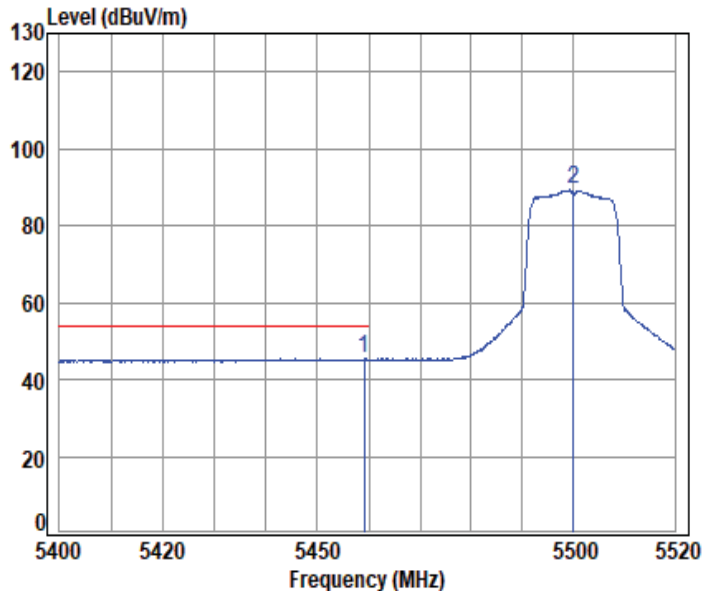
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

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11a_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5459.070	10.60	32.90	30.72	32.51	45.29	54.00	-8.71 Average
2 5500.000	10.58	32.90	30.70	76.44	89.22	-----	----- Average



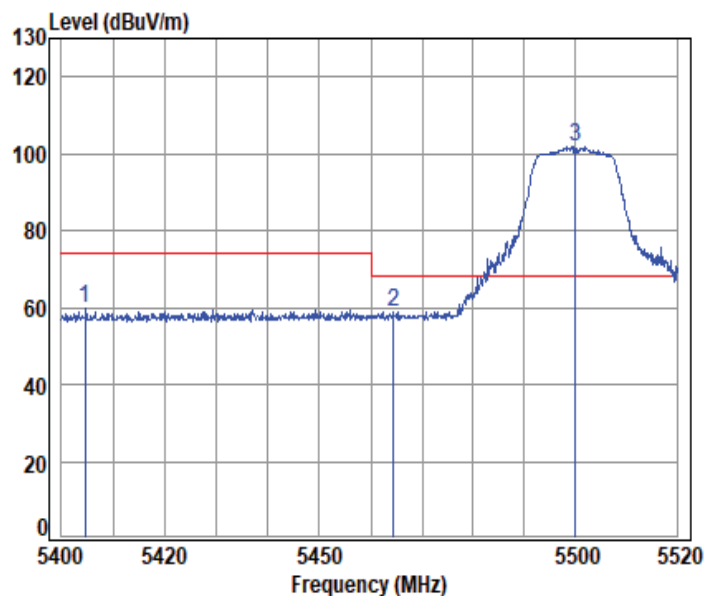
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11a_TX_CH_100_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11a

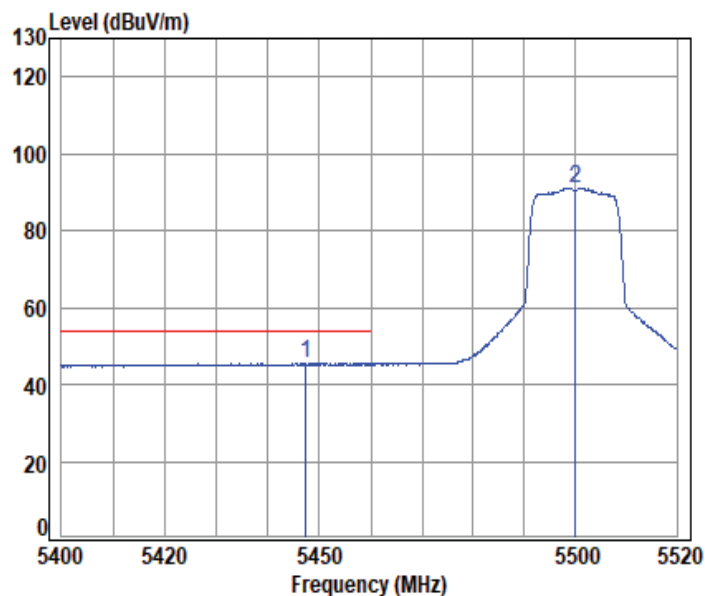
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5404.631	10.62	32.81	30.74	47.33	60.02	74.00 -13.98 peak
2	5464.352	10.59	32.90	30.71	46.04	58.82	68.20 -9.38 peak
3 pp	5500.000	10.58	32.90	30.70	89.22	102.00	68.20 33.80 peak



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11a_TX_CH_100_Verical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5447.325	10.60	32.89	30.72	32.70	45.47	54.00	-8.53	Average
2 5500.000	10.58	32.90	30.70	78.39	91.17	-----	-----	Average



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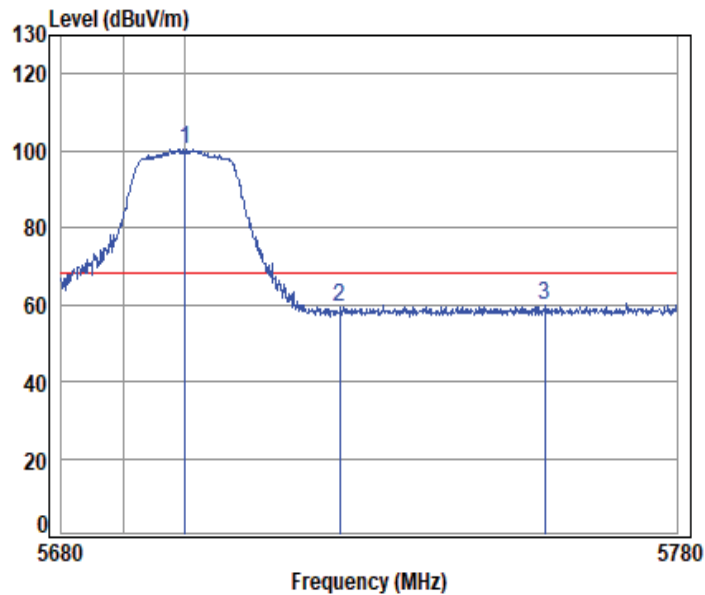
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11a_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5700 Band edge

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 5700.000	10.56	33.20	30.62	87.44	100.58	68.20	32.38 peak
2	5725.000	10.68	33.25	30.61	45.88	59.20	68.20	-9.00 peak
3	5758.353	10.83	33.32	30.60	46.19	59.74	68.20	-8.46 peak



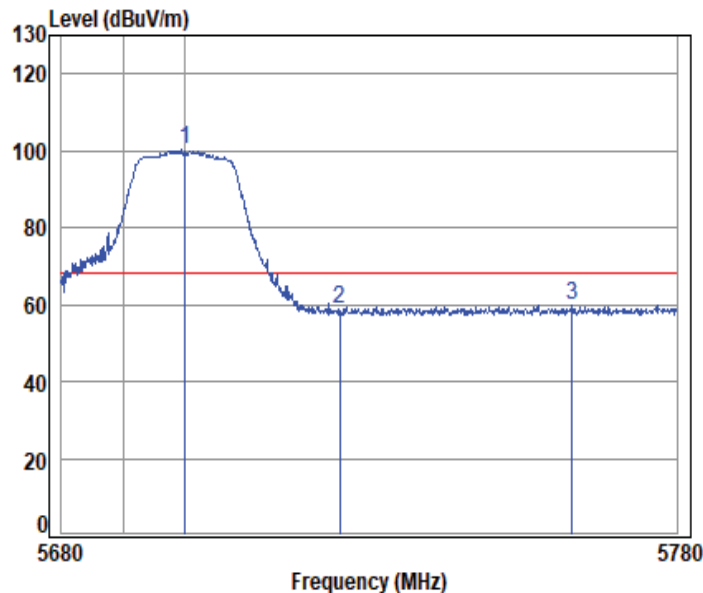
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11a_TX_CH_140_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5700 Band edge

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 5700.000	10.56	33.20	30.62	87.02	100.16	68.20	31.96 peak
2	5725.000	10.68	33.25	30.61	45.48	58.80	68.20	-9.40 peak
3	5762.876	10.85	33.33	30.59	46.19	59.78	68.20	-8.42 peak



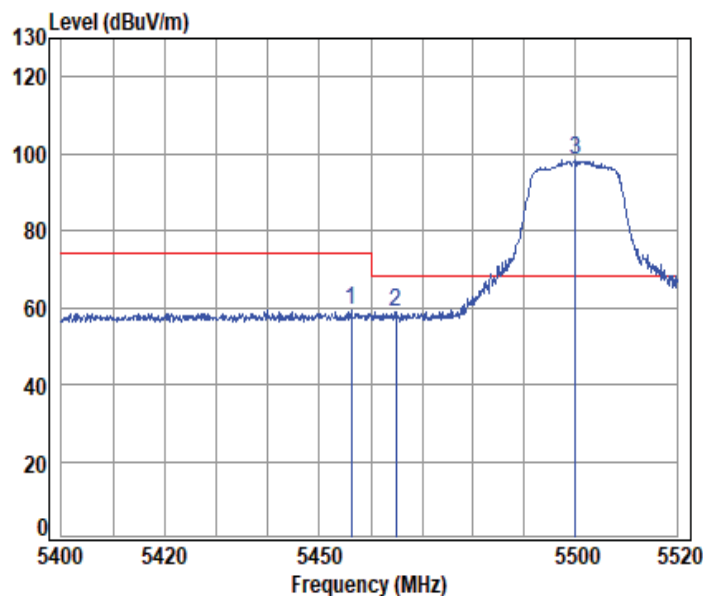
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11ac_VHT(20M)_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

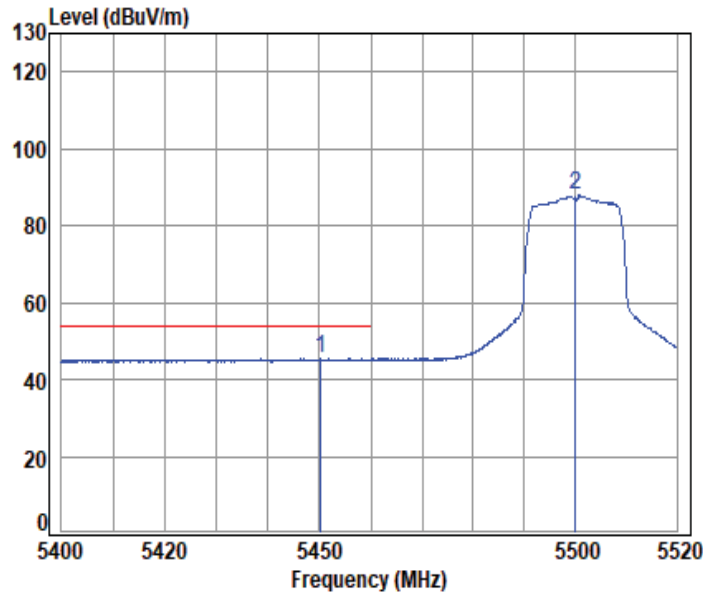
Mode : 5500 Band edge

: 5G Wi-Fi 11ac20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5456.191	10.60	32.90	30.72	46.70	59.48	74.00 -14.52 peak
2	5464.833	10.59	32.90	30.71	46.24	59.02	68.20 -9.18 peak
3 pp	5500.000	10.58	32.90	30.70	85.47	98.25	68.20 30.05 peak



11ac_VHT(20M)_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11ac20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5450.318	10.60	32.90	30.72	32.54	45.32	54.00	-8.68 Average
2 5500.000	10.58	32.90	30.70	75.00	87.78	-----	----- Average



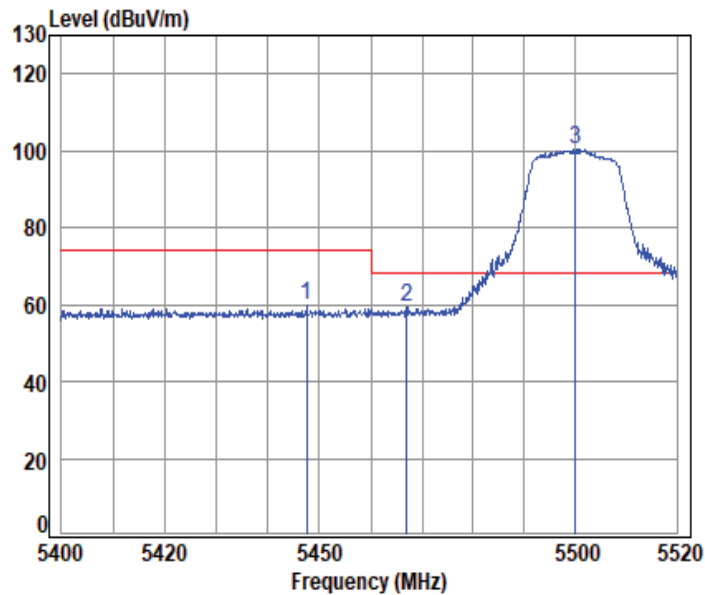
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11ac_VHT(20M)_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11ac20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5447.444	10.60	32.89	30.72	46.81	59.58	74.00 -14.42 peak
2	5466.995	10.59	32.90	30.71	46.77	59.55	68.20 -8.65 peak
3 pp	5500.000	10.58	32.90	30.70	87.47	100.25	68.20 32.05 peak



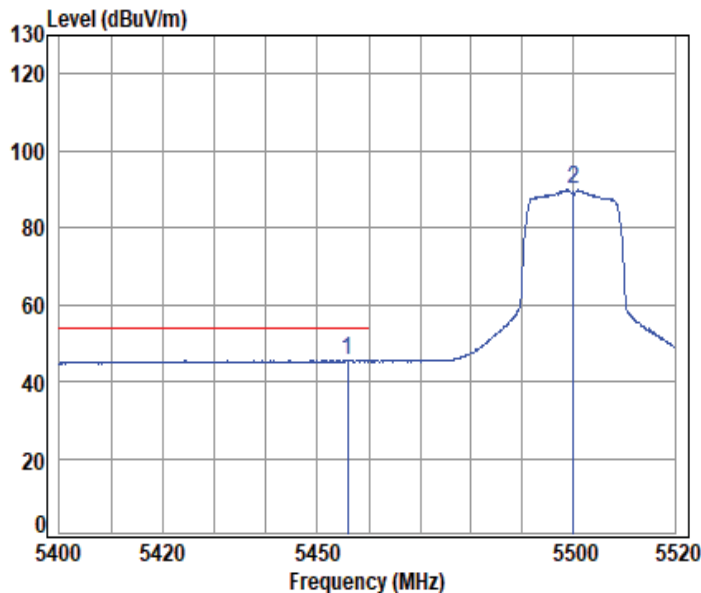
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11ac_VHT(20M)_TX_CH_100_Verical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11ac20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5455.832	10.60	32.90	30.72	32.78	45.56	54.00	-8.44 Average
2 5500.000	10.58	32.90	30.70	77.01	89.79	-----	----- Average



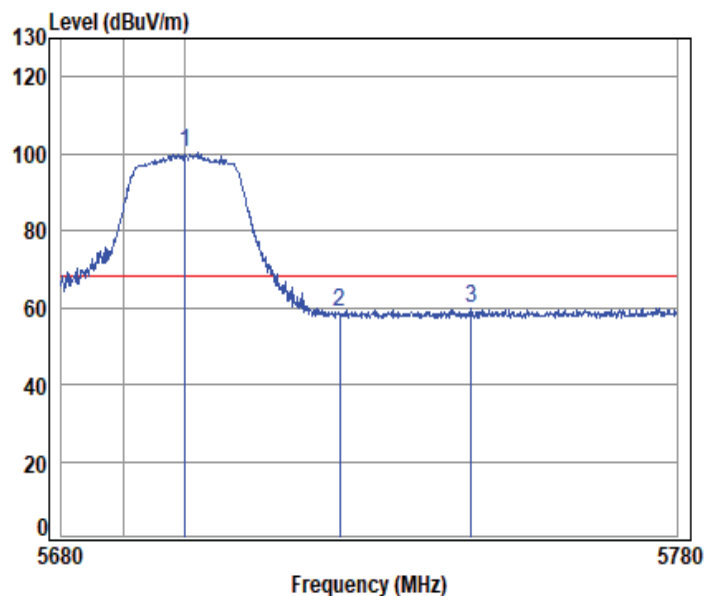
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11ac_VHT(20M)_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5700 Band edge

: 5G Wi-Fi 11ac20

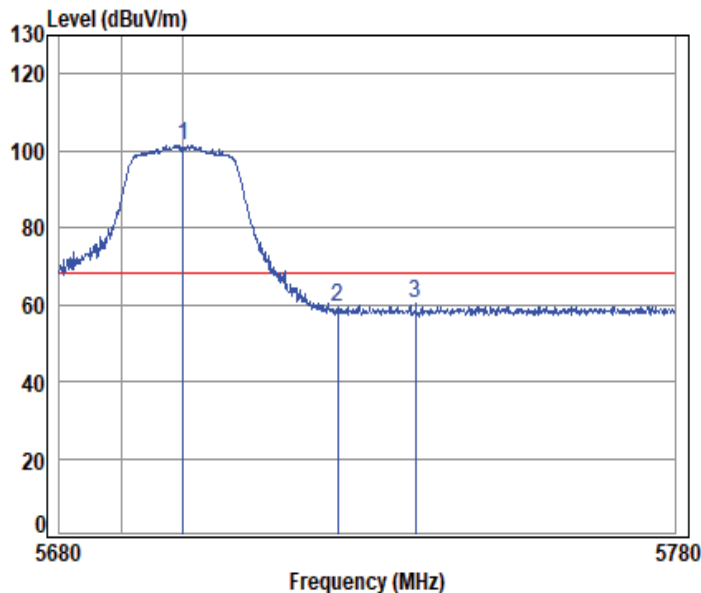
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 5700.000	10.56	33.20	30.62	87.28	100.42	68.20	32.22 peak
2	5725.000	10.68	33.25	30.61	45.58	58.90	68.20	-9.30 peak
3	5746.406	10.77	33.29	30.60	46.25	59.71	68.20	-8.49 peak



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11ac_VHT(20M)_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5700 Band edge

: 5G Wi-Fi 11ac20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5700.000	10.56	33.20	30.62	88.23	101.37	68.20	33.17	peak
2	5725.000	10.68	33.25	30.61	46.12	59.44	68.20	-8.76	peak
3	5737.687	10.73	33.28	30.60	46.87	60.28	68.20	-7.92	peak



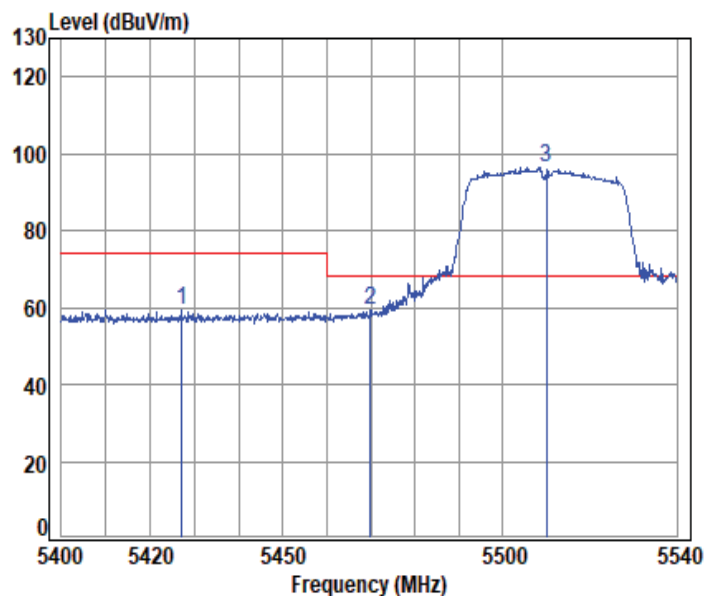
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11ac_VHT(40M)_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5510 Band edge

: 5G Wi-Fi 11ac40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5427.020	10.61	32.85	30.73	46.68	59.41	74.00 -14.59 peak
2	5469.832	10.59	32.90	30.71	46.43	59.21	68.20 -8.99 peak
3 pp	5510.000	10.56	32.90	30.70	83.78	96.54	68.20 28.34 peak



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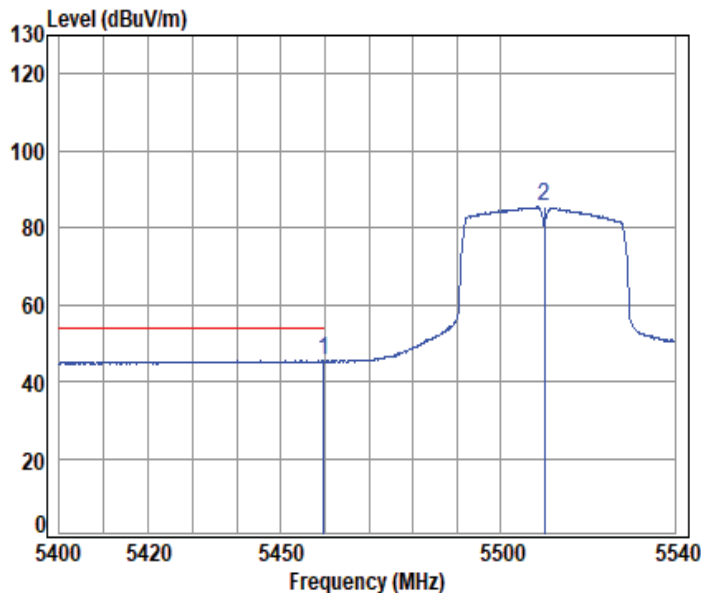
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

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11ac_VHT(40M)_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5510 Band edge

: 5G Wi-Fi 11ac40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5459.761	10.60	32.90	30.72	32.71	45.49	54.00	-8.51 Average
2 5510.000	10.56	32.90	30.70	72.55	85.31	-----	----- Average



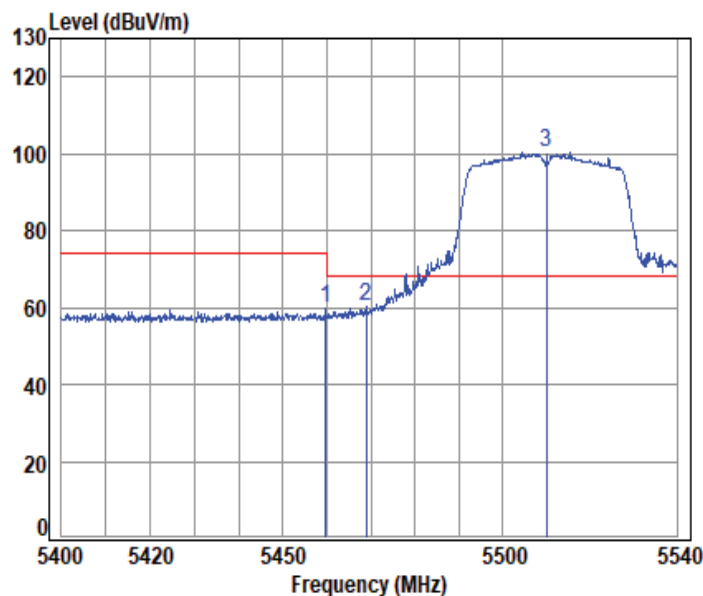
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11ac_VHT(40M)_TX_CH_102_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

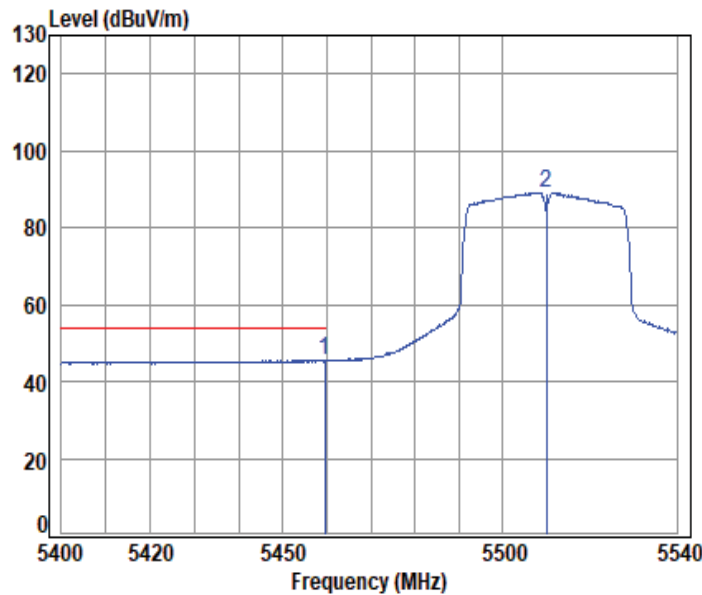
Mode : 5510 Band edge

: 5G Wi-Fi 11ac40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5459.622	10.60	32.90	30.72	47.04	59.82	74.00 -14.18 peak
2	5468.852	10.59	32.90	30.71	47.51	60.29	68.20 -7.91 peak
3 pp	5510.000	10.56	32.90	30.70	87.57	100.33	68.20 32.13 peak



11ac_VHT(40M)_TX_CH_102_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5510 Band edge

: 5G Wi-Fi 11ac40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5459.481	10.60	32.90	30.72	32.76	45.54	54.00	-8.46 Average
2 5510.000	10.56	32.90	30.70	76.41	89.17	-----	----- Average



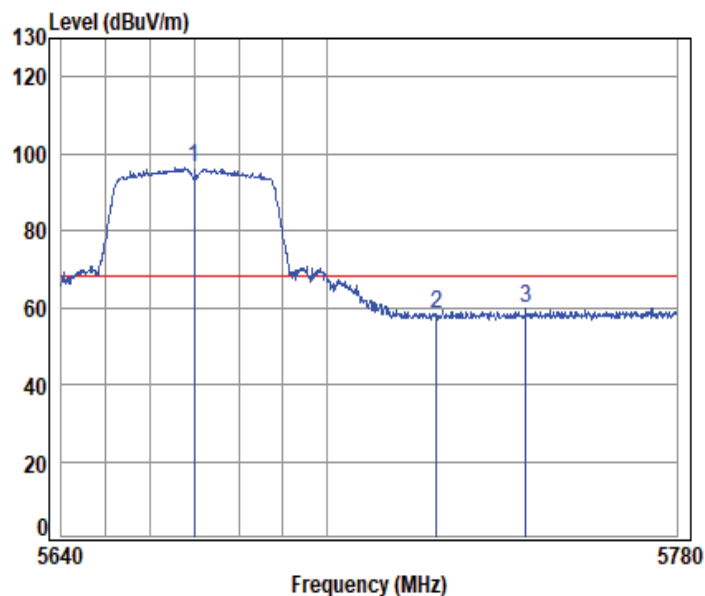
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11ac_VHT(40M)_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5670 Band edge

: 5G Wi-Fi 11ac40

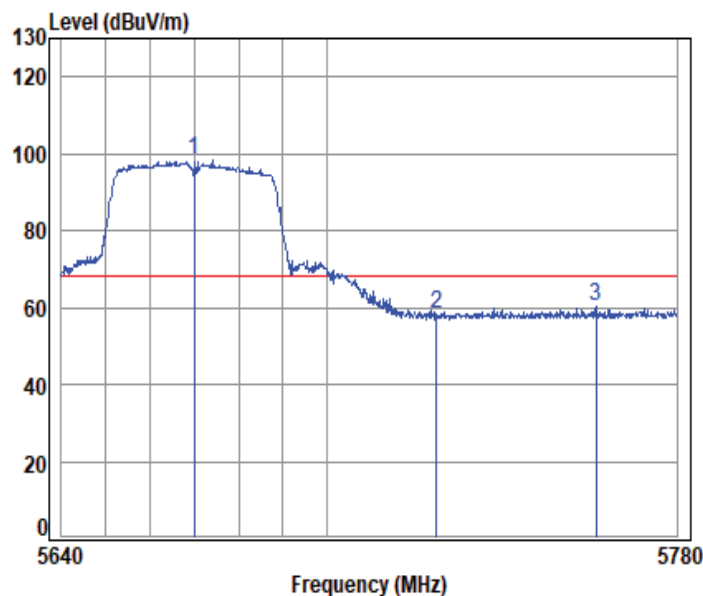
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5670.000	10.52	33.14	30.63	83.36	96.39	68.20	28.19 peak
2	5725.000	10.68	33.25	30.61	45.09	58.41	68.20	-9.79 peak
3	5745.241	10.77	33.29	30.60	46.43	59.89	68.20	-8.31 peak



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11ac_VHT(40M)_TX_CH_134_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5670 Band edge

: 5G Wi-Fi 11ac40

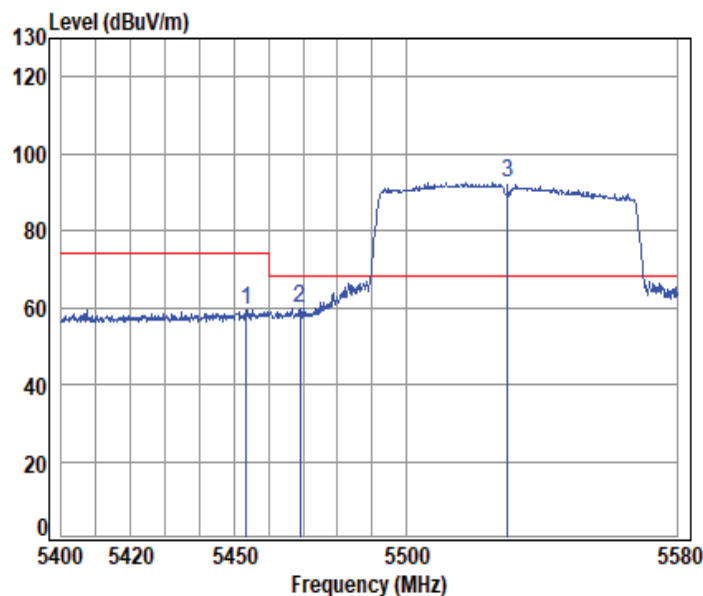
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	85.29	98.32	68.20	30.12	peak
2	5725.000	10.68	33.25	30.61	44.87	58.19	68.20	-10.01	peak
3	5761.464	10.84	33.32	30.60	46.59	60.15	68.20	-8.05	peak



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11ac_VHT(80M)_TX_CH_106_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5453.561	10.60	32.90	30.72	46.65	59.43	74.00 -14.57 peak
2	5469.140	10.59	32.90	30.71	47.19	59.97	68.20 -8.23 peak
3 pp	5530.000	10.53	32.90	30.69	79.71	92.45	68.20 24.25 peak



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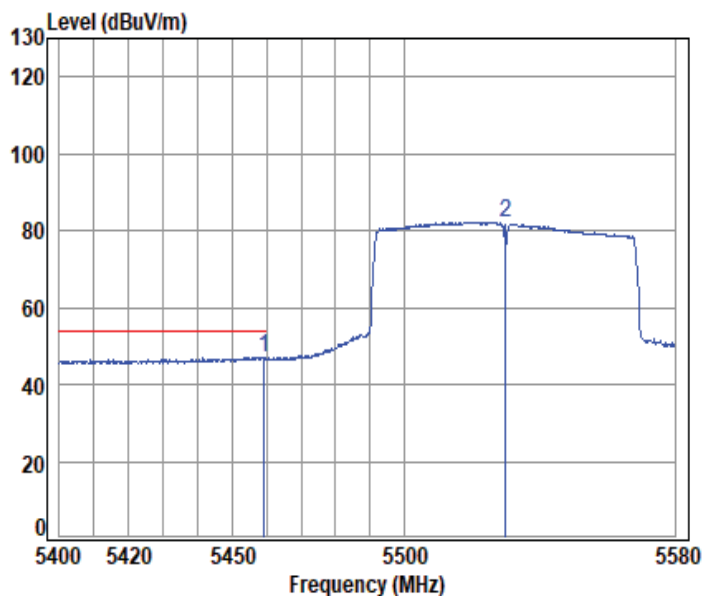
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

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11ac_VHT(80M)_TX_CH_106_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5459.286	10.60	32.90	30.72	34.30	47.08	54.00	-6.92 Average
2 5530.000	10.53	32.90	30.69	69.51	82.25	-----	----- Average



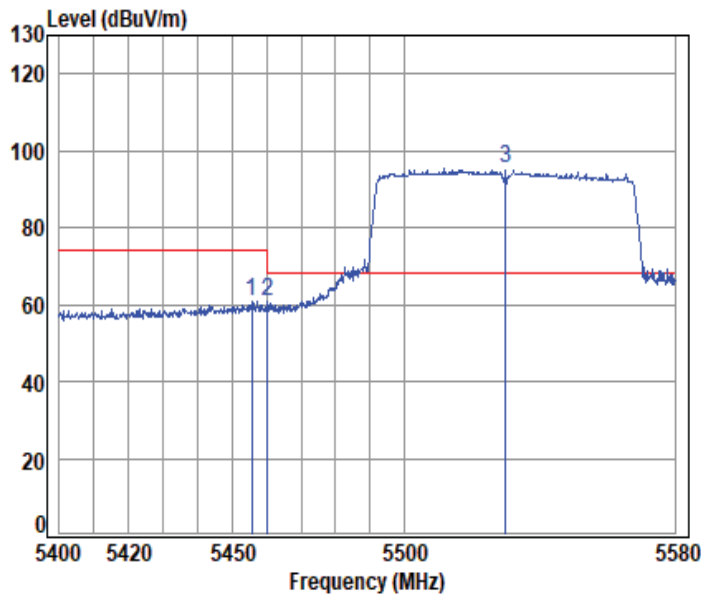
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11ac_VHT(80M)_TX_CH_106_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

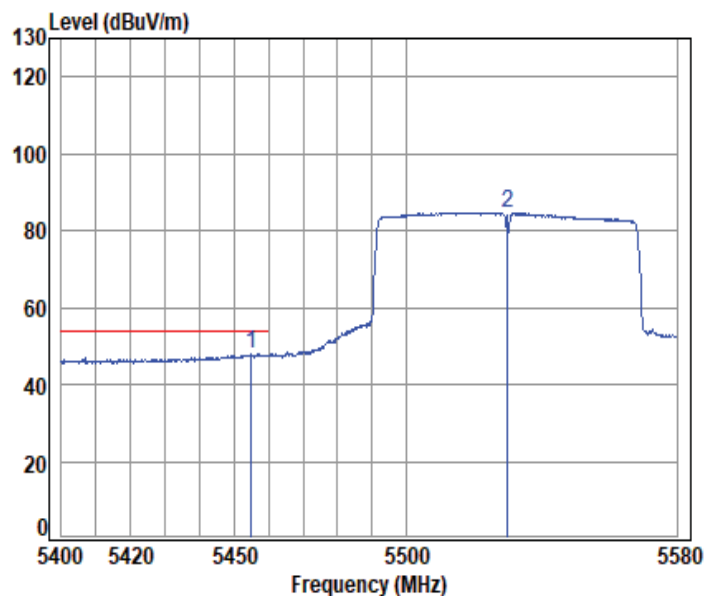
Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5455.528	10.60	32.90	30.72	48.04	60.82	74.00 -13.18 peak
2	5460.181	10.60	32.90	30.72	48.11	60.89	68.20 -7.31 peak
3 pp	5530.000	10.53	32.90	30.69	82.42	95.16	68.20 26.96 peak



11ac_VHT(80M)_TX_CH_106_Verical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

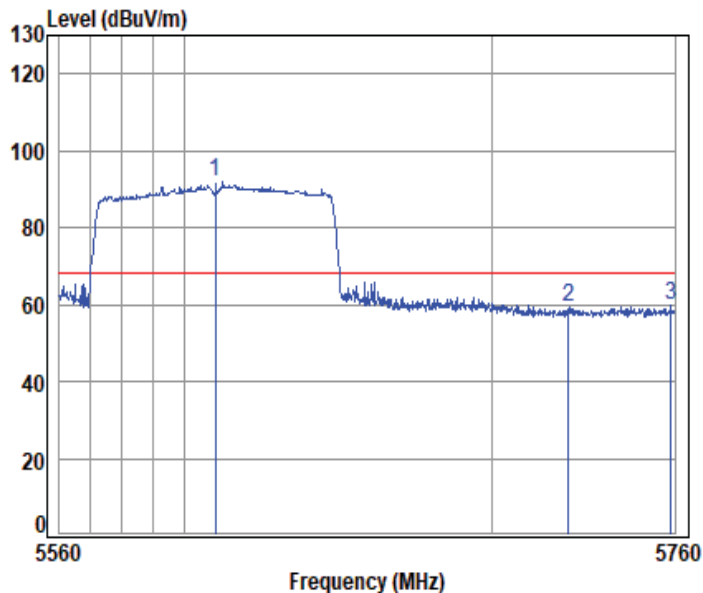
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5454.991	10.60	32.90	30.72	35.22	48.00	54.00	-6.00 Average
2 5530.000	10.53	32.90	30.69	72.00	84.74	-----	----- Average



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11ac_VHT(80M)_TX_CH_122_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

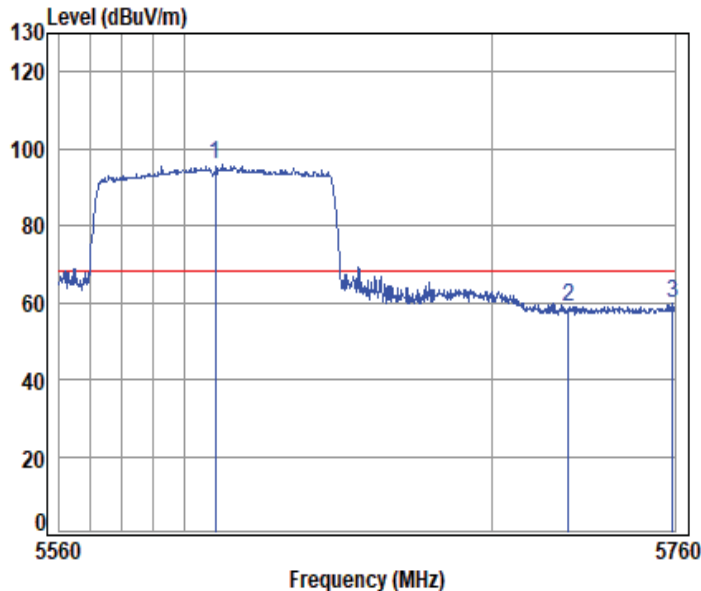
Mode : 5610 Band edge

: 5G Wi-Fi 11ac80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	78.98	91.77	68.20	23.57	peak
2	5725.000	10.68	33.25	30.61	46.11	59.43	68.20	-8.77	peak
3	5758.779	10.83	33.32	30.60	46.14	59.69	68.20	-8.51	peak



11ac_VHT(80M)_TX_CH_122_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5610 Band edge

: 5G Wi-Fi 11ac80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	83.35	96.14	68.20	27.94	peak
2	5725.000	10.68	33.25	30.61	45.52	58.84	68.20	-9.36	peak
3	5759.389	10.83	33.32	30.60	46.25	59.80	68.20	-8.40	peak



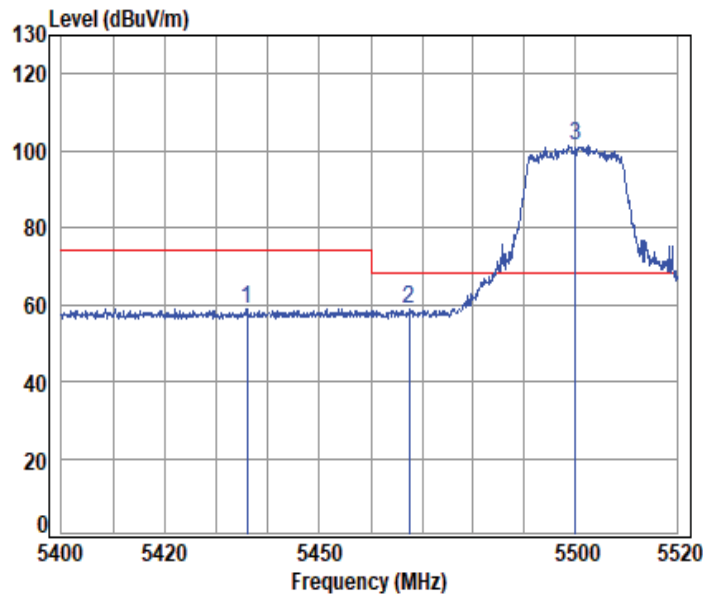
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11ax_20M_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11ax20

	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	5435.962	10.61	32.87	30.73	46.23	58.98	74.00 -15.02 peak
2	5467.476	10.59	32.90	30.71	45.98	58.76	68.20 -9.44 peak
3 pp	5500.000	10.58	32.90	30.70	88.40	101.18	68.20 32.98 peak



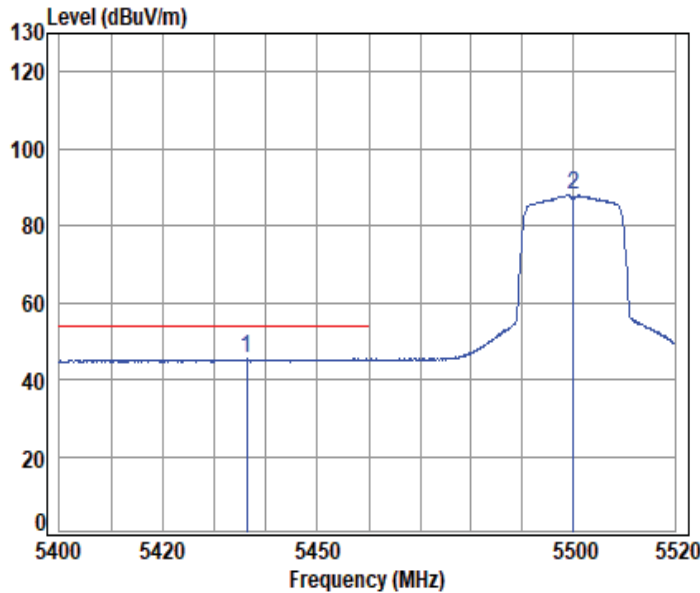
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11ax_20M_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11ax20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5436.201	10.61	32.87	30.73	32.62	45.37	54.00	-8.63 Average
2 5500.000	10.58	32.90	30.70	75.06	87.84	-----	----- Average



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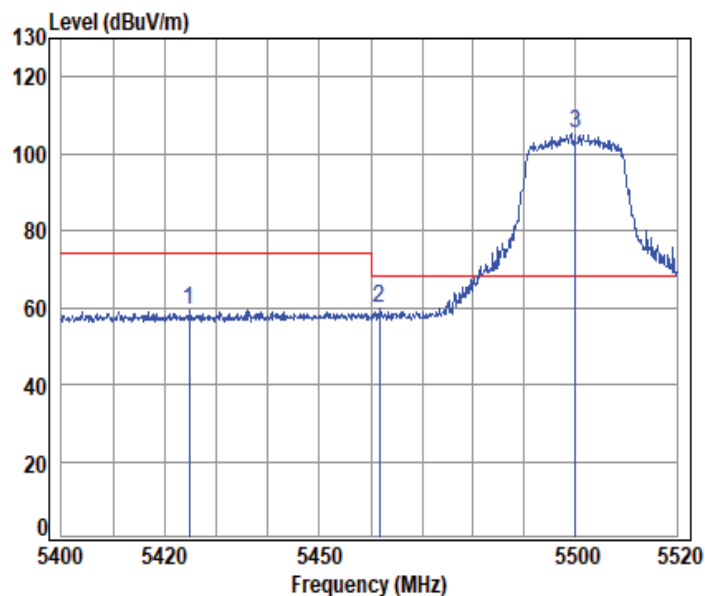
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11ax_20M_TX_CH_100_Veritical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11ax20

	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	5424.743	10.61	32.85	30.73	46.45	59.18	74.00 -14.82 peak
2	5461.710	10.60	32.90	30.72	46.80	59.58	68.20 -8.62 peak
3 pp	5500.000	10.58	32.90	30.70	92.52	105.30	68.20 37.10 peak



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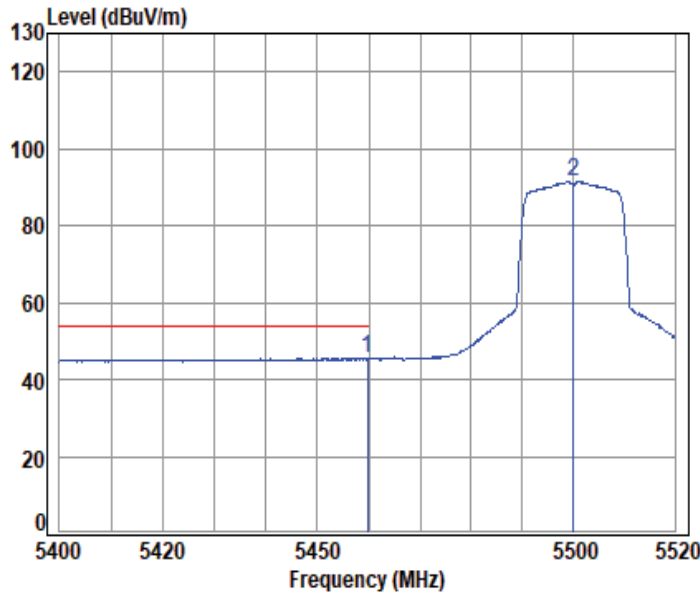
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11ax_20M_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.791	10.60	32.90	30.72	32.92	45.70	54.00	-8.30	Average
2	5500.000	10.58	32.90	30.70	78.71	91.49	-----	-----	Average



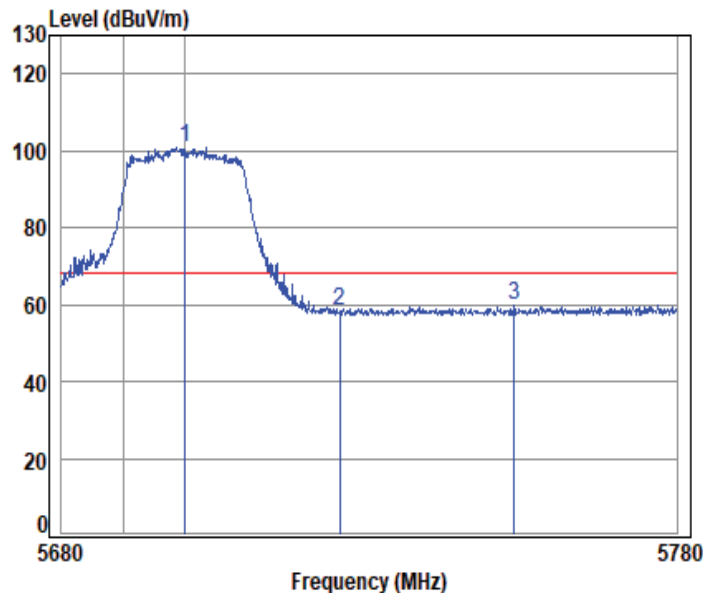
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11ax_20M_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5700 Band edge

: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5700.000	10.56	33.20	30.62	87.75	100.89	68.20	32.69	peak
2	5725.000	10.68	33.25	30.61	44.99	58.31	68.20	-9.89	peak
3	5753.430	10.81	33.31	30.60	46.33	59.85	68.20	-8.35	peak



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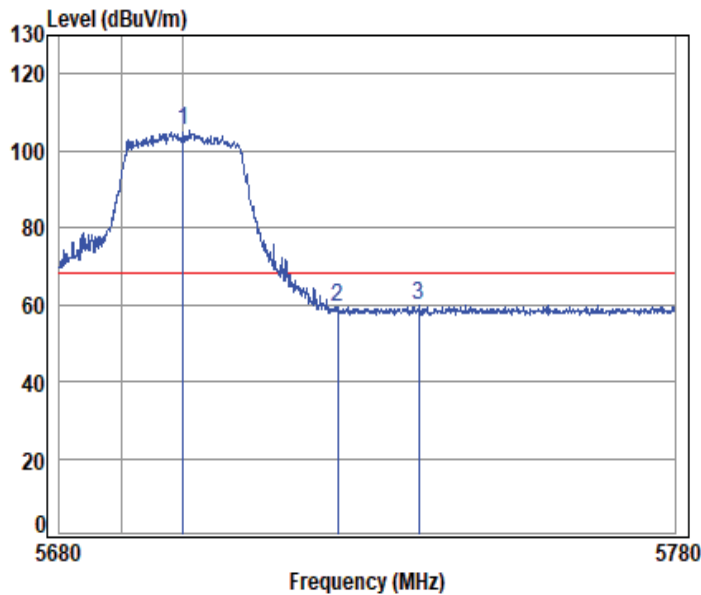
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11ax_20M_TX_CH_140_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5700 Band edge

: 5G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5700.000	10.56	33.20	30.62	92.02	105.16	68.20	36.96	peak
2	5725.000	10.68	33.25	30.61	46.24	59.56	68.20	-8.64	peak
3	5738.188	10.74	33.28	30.60	46.58	60.00	68.20	-8.20	peak



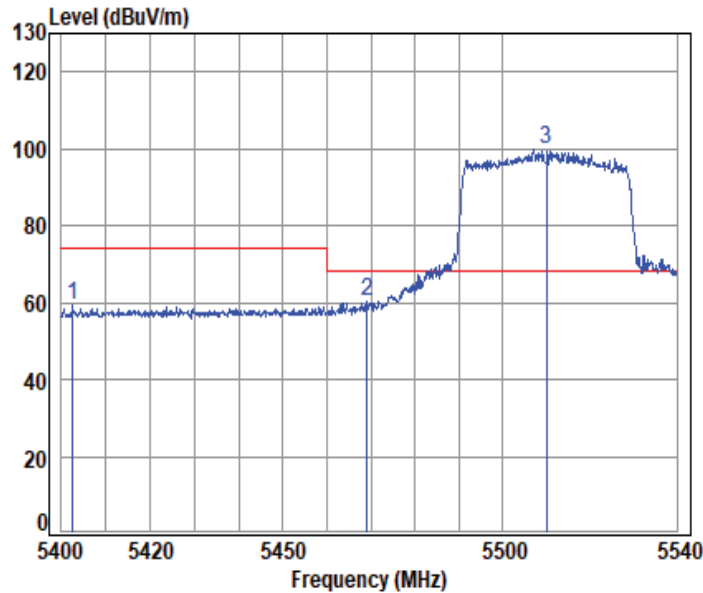
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11ax_40M_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5510 Band edge

: 5G Wi-Fi 11ax40

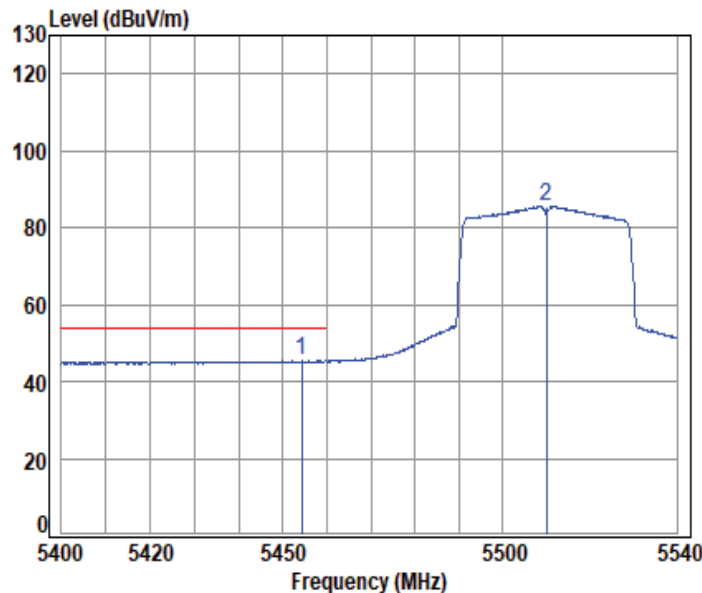
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5402.488	10.62	32.80	30.74	46.72	59.40	74.00 -14.60 peak
2	5469.132	10.59	32.90	30.71	47.52	60.30	68.20 -7.90 peak
3 pp	5510.000	10.56	32.90	30.70	87.06	99.82	68.20 31.62 peak



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11ax_40M_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5510 Band edge

: 5G Wi-Fi 11ax40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5454.174	10.60	32.90	30.72	32.53	45.31	54.00	-8.69 Average
2 5510.000	10.56	32.90	30.70	72.71	85.47	-----	----- Average



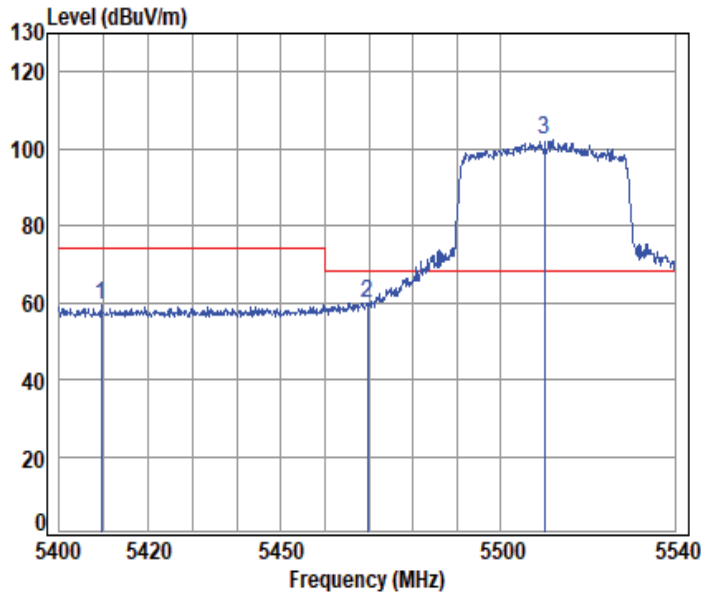
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11ax_40M_TX_CH_102_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5510 Band edge

: 5G Wi-Fi 11ax40

	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	5409.407	10.62	32.82	30.74	46.69	59.39	74.00 -14.61 peak
2	5469.692	10.59	32.90	30.71	47.23	60.01	68.20 -8.19 peak
3 pp	5510.000	10.56	32.90	30.70	89.52	102.28	68.20 34.08 peak



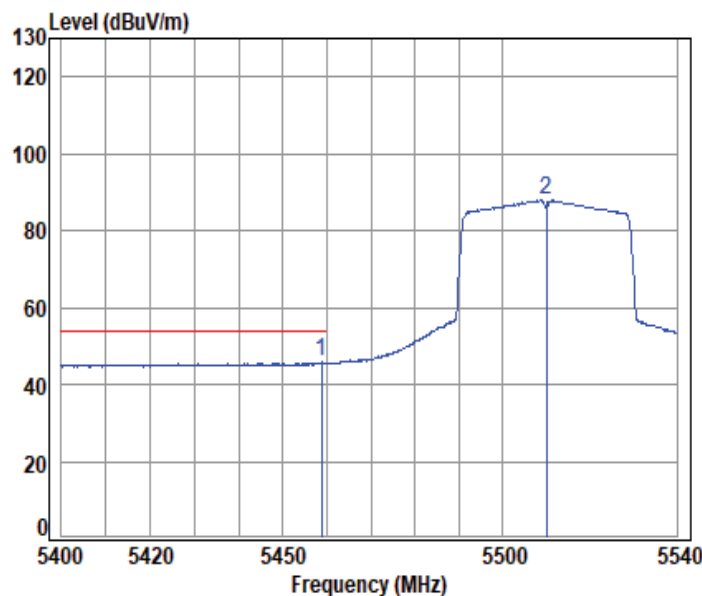
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11ax_40M_TX_CH_102_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5510 Band edge

: 5G Wi-Fi 11ax40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5458.783	10.60	32.90	30.72	32.96	45.74	54.00	-8.26 Average
2 5510.000	10.56	32.90	30.70	75.11	87.87	-----	----- Average



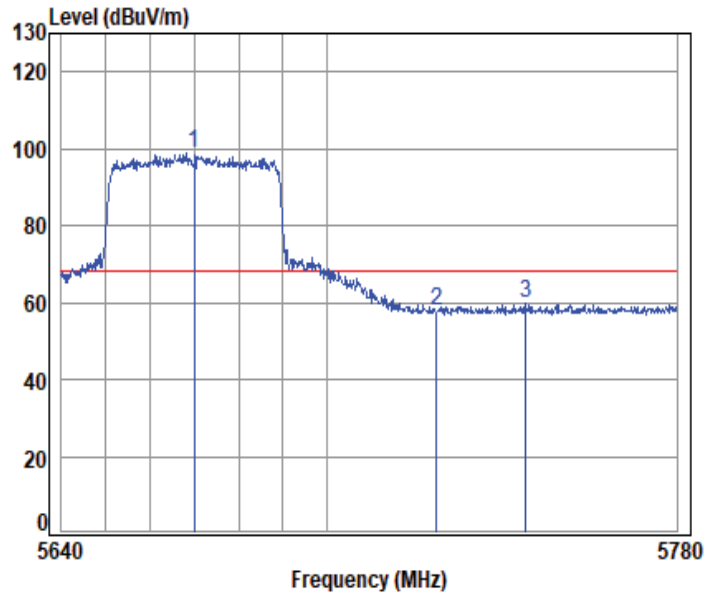
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11ax_40M_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5670 Band edge

: 5G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5670.000	10.52	33.14	30.63	85.73	98.76	68.20	30.56 peak
2	5725.000	10.68	33.25	30.61	44.39	57.71	68.20	-10.49 peak
3	5745.382	10.77	33.29	30.60	46.37	59.83	68.20	-8.37 peak



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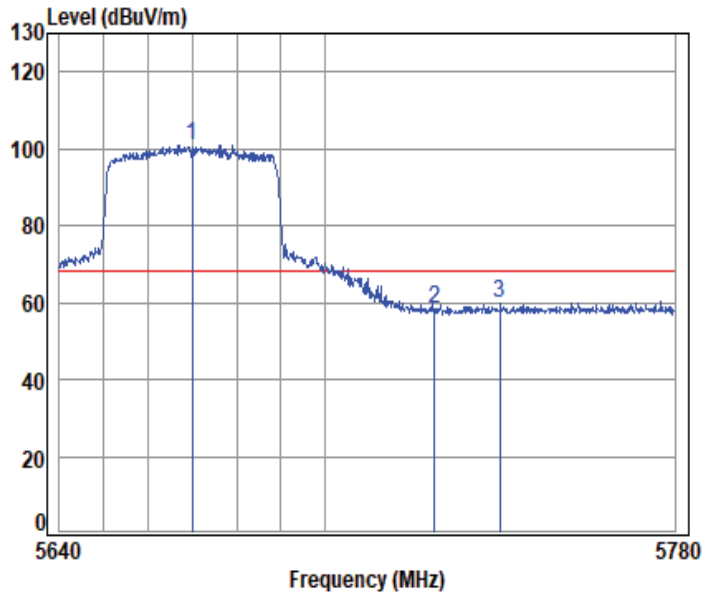
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11ax_40M_TX_CH_134_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5670 Band edge

: 5G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5670.000	10.52	33.14	30.63	87.92	100.95	68.20	32.75	peak
2	5725.000	10.68	33.25	30.61	44.96	58.28	68.20	-9.92	peak
3	5739.890	10.74	33.28	30.60	46.56	59.98	68.20	-8.22	peak



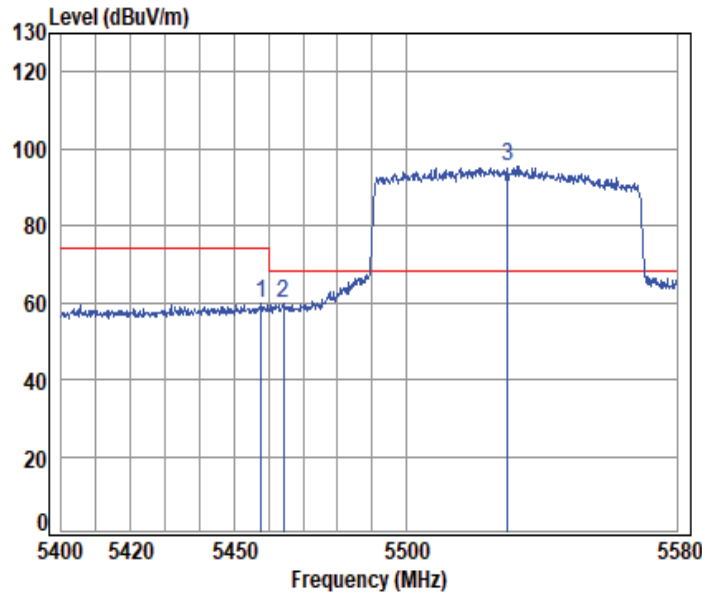
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11ax_80M_TX_CH_106_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ax80

	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	5457.675	10.60	32.90	30.72	47.12	59.90	74.00 -14.10 peak
2	5464.300	10.59	32.90	30.71	46.81	59.59	68.20 -8.61 peak
3 pp	5530.000	10.53	32.90	30.69	82.60	95.34	68.20 27.14 peak



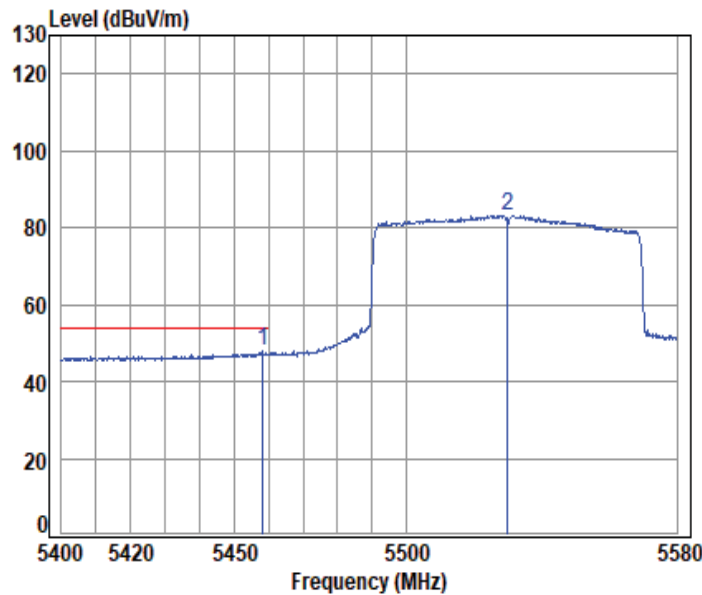
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11ax_80M_TX_CH_106_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ax80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5458.391	10.60	32.90	30.72	35.04	47.82	54.00	-6.18 Average
2 5530.000	10.53	32.90	30.69	70.53	83.27	-----	----- Average



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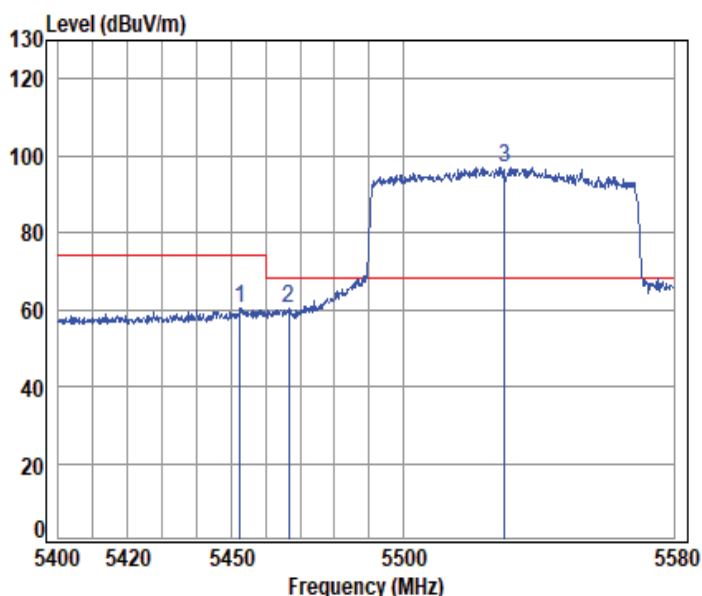
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Report No.: SZCR250500212306

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11ax_80M_TX_CH_106_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ax80

	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	5452.488	10.60	32.90	30.72	47.55	60.33	74.00 -13.67 peak
2	5466.630	10.59	32.90	30.71	47.46	60.24	68.20 -7.96 peak
3 pp	5530.000	10.53	32.90	30.69	84.30	97.04	68.20 28.84 peak



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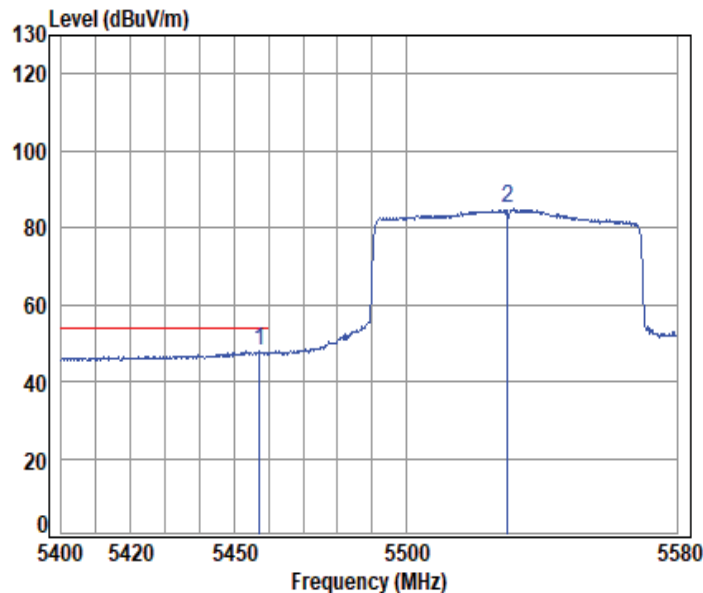
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11ax_80M_TX_CH_106_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ax80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5457.317	10.60	32.90	30.72	35.18	47.96	54.00	-6.04 Average
2 5530.000	10.53	32.90	30.69	72.13	84.87	-----	----- Average



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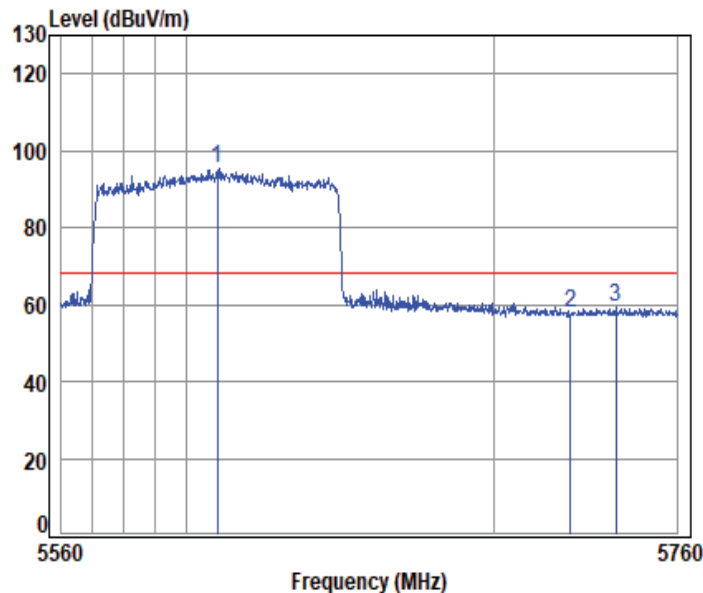
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11ax_80M_TX_CH_122_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5610 Band edge

: 5G Wi-Fi 11ax80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	82.38	95.17	68.20	26.97	peak
2	5725.000	10.68	33.25	30.61	44.63	57.95	68.20	-10.25	peak
3	5739.883	10.74	33.28	30.60	45.86	59.28	68.20	-8.92	peak



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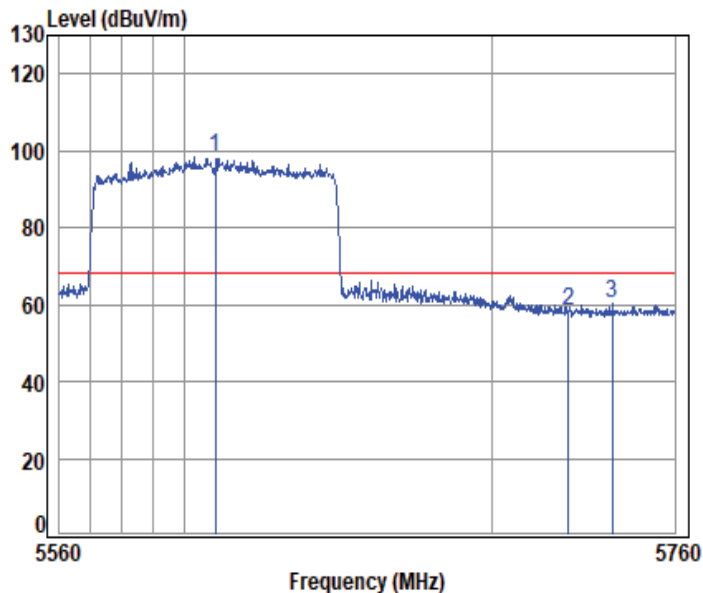
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11ax_80M_TX_CH_122_Verical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5610 Band edge

: 5G Wi-Fi 11ax80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	85.56	98.35	68.20	30.15	peak
2	5725.000	10.68	33.25	30.61	45.24	58.56	68.20	-9.64	peak
3	5739.478	10.74	33.28	30.60	46.93	60.35	68.20	-7.85	peak



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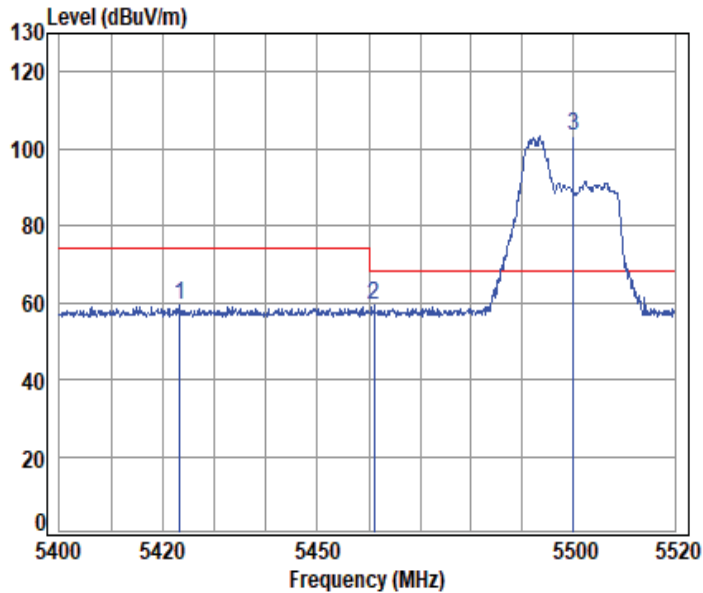
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11ax_20M_Partial_RU52_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11ax20 RU52

	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	5423.313	10.61	32.85	30.73	46.62	59.35	74.00 -14.65 peak
2	5461.110	10.60	32.90	30.72	46.51	59.29	68.20 -8.91 peak
3 pp	5500.000	10.58	32.90	30.70	90.34	103.12	68.20 34.92 peak



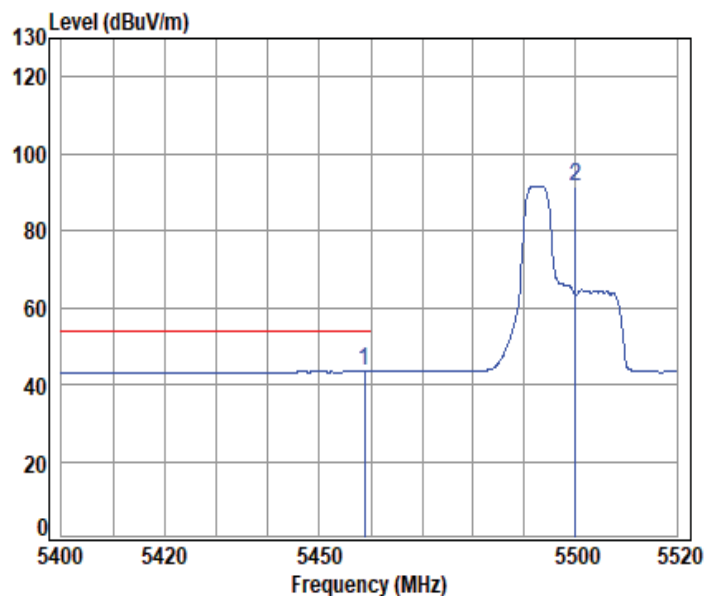
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11ax_20M_Partial_RU52_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11ax20 RU52

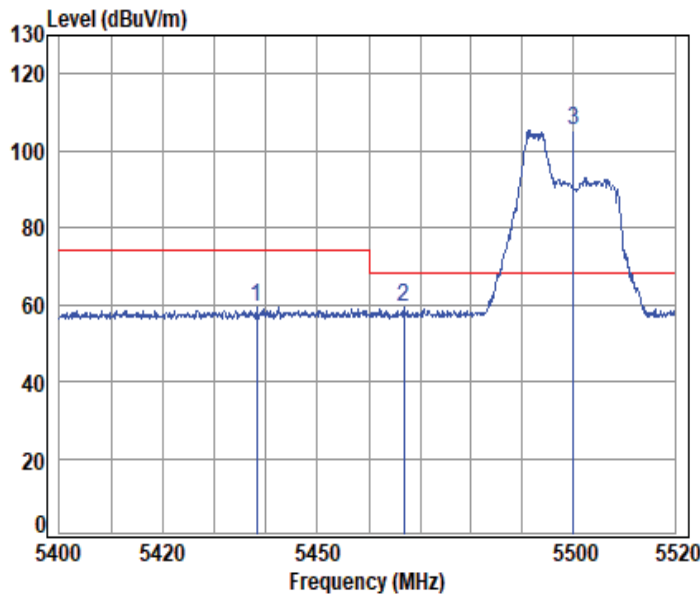
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5458.710	10.60	32.90	30.72	30.56	43.34	54.00	-10.66 Average
2 5500.000	10.58	32.90	30.70	78.58	91.36	-----	----- Average



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11ax_20M_Partial_RU52_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11ax20 RU52

		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	5438.233	10.60	32.88	30.72	46.53	59.29	74.00	-14.71	peak
2	5466.875	10.59	32.90	30.71	46.37	59.15	68.20	-9.05	peak
3 pp	5500.000	10.58	32.90	30.70	92.37	105.15	68.20	36.95	peak



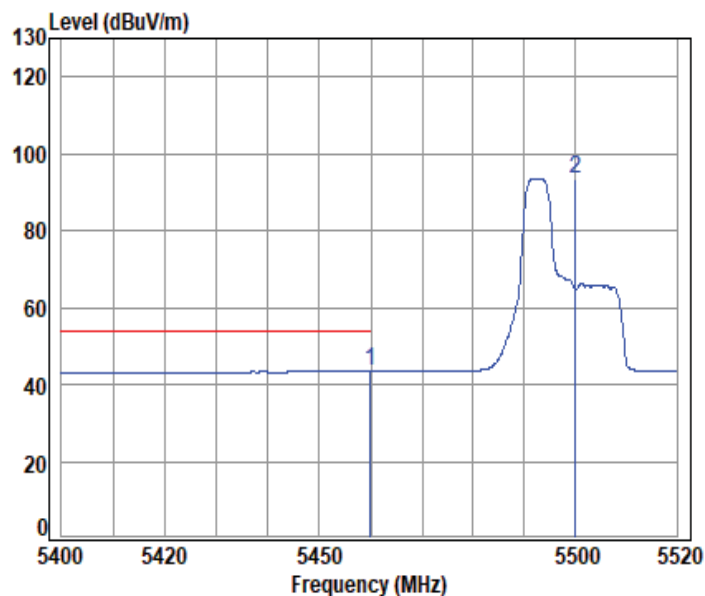
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11ax_20M_Partial_RU52_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5500 Band edge

: 5G Wi-Fi 11ax20 RU52

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 5459.910	10.60	32.90	30.72	30.65	43.43	54.00	-10.57 Average
2 5500.000	10.58	32.90	30.70	80.64	93.42	-----	----- Average



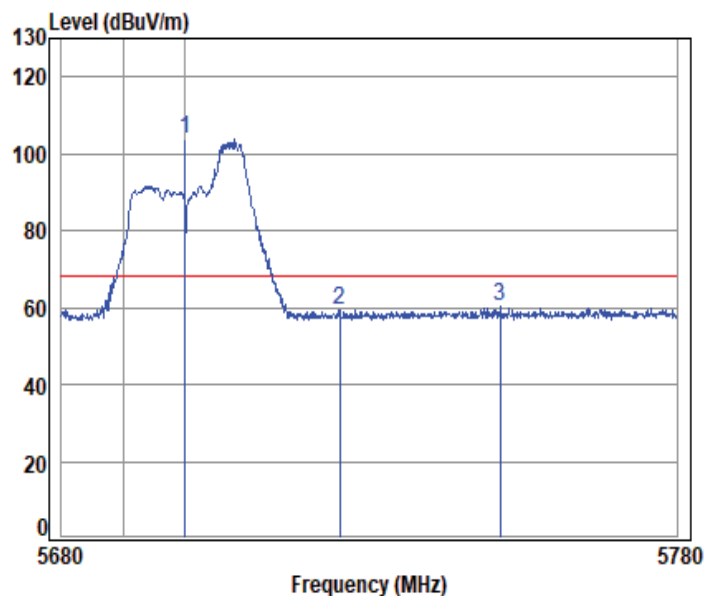
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11ax_20M_Partial_RU52_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5700 Band edge

: 5G Wi-Fi 11ax20 RU52

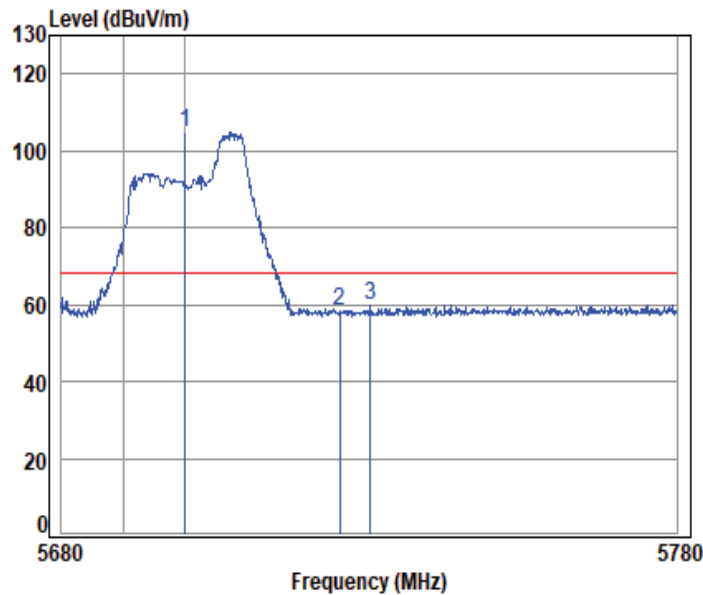
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5700.000	10.56	33.20	30.62	90.43	103.57	68.20	35.37	peak
2	5725.000	10.68	33.25	30.61	45.83	59.15	68.20	-9.05	peak
3	5751.121	10.80	33.30	30.60	46.93	60.43	68.20	-7.77	peak



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11ax_20M_Partial_RU52_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5700 Band edge

: 5G Wi-Fi 11ax20 RU52

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	91.53	104.67	68.20	36.47	peak
2	5725.000	10.68	33.25	30.61	45.22	58.54	68.20	-9.66	peak
3	5729.982	10.70	33.26	30.61	46.67	60.02	68.20	-8.18	peak



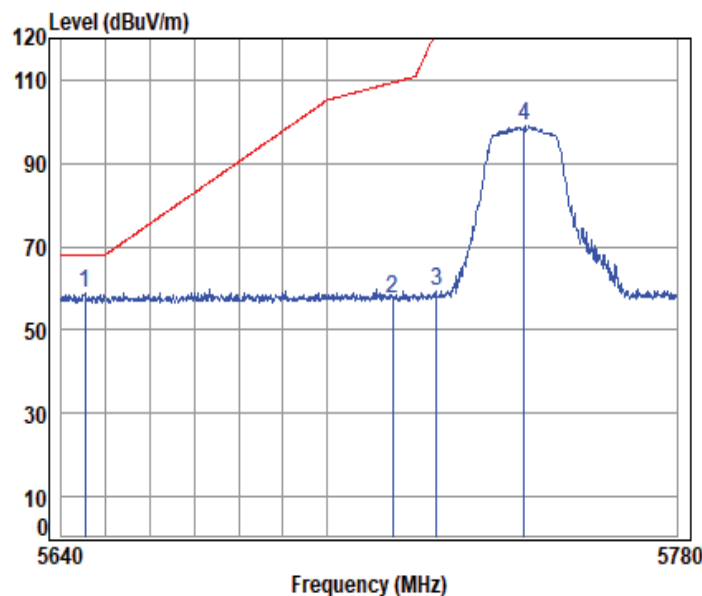
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11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11a

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5645.257	10.48	33.09	30.64	45.87	58.80	68.20	-9.40 peak
2	5715.000	10.63	33.23	30.61	44.46	57.71	109.40	-51.69 peak
3	5725.000	10.68	33.25	30.61	45.94	59.26	122.20	-62.94 peak
4	5745.000	10.77	33.29	30.60	85.51	98.97	-----	----- peak



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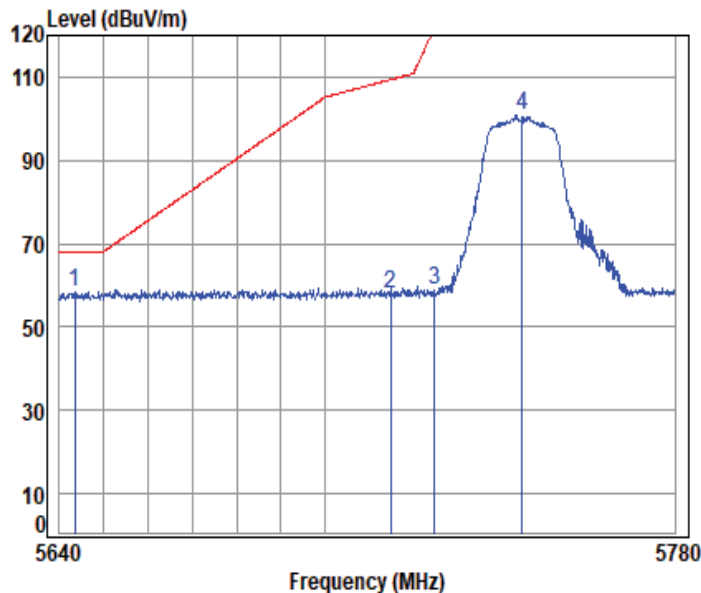
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11a_TX_CH_149_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5643.458	10.48	33.09	30.64	45.41	58.34	68.20	-9.86	peak
2	5715.000	10.63	33.23	30.61	44.92	58.17	109.40	-51.23	peak
3	5725.000	10.68	33.25	30.61	45.53	58.85	122.20	-63.35	peak
4	5745.000	10.77	33.29	30.60	87.29	100.75	-----	-----	peak



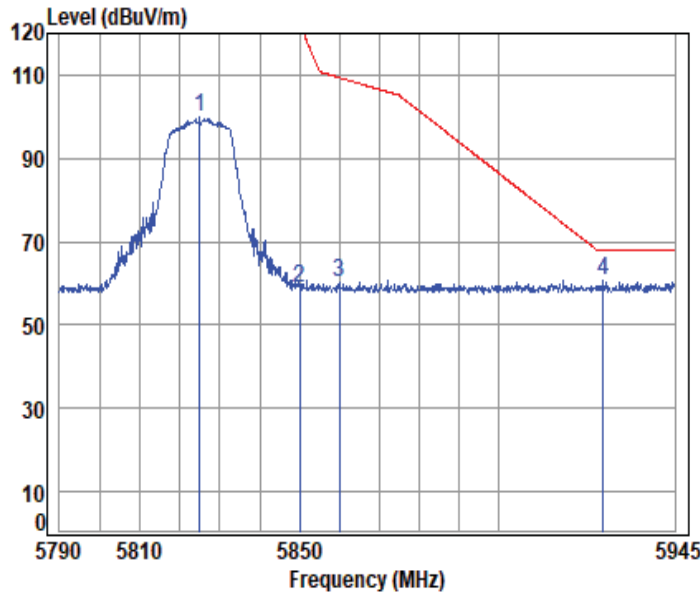
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11a_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11a

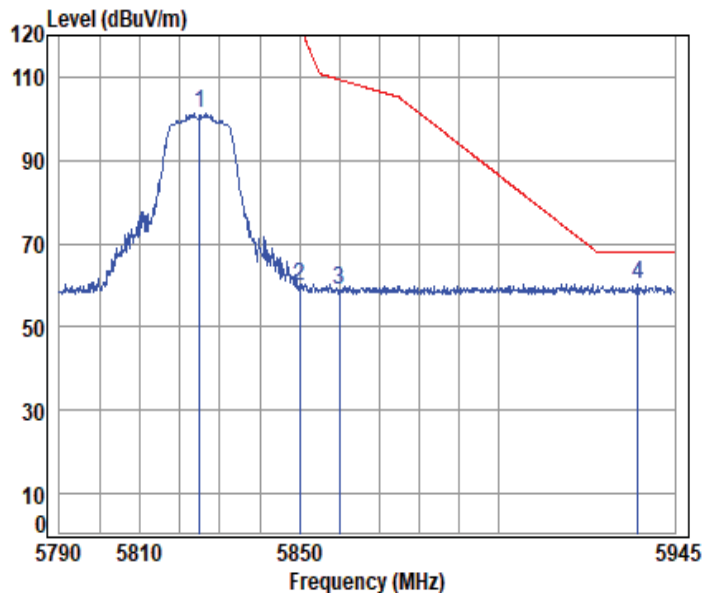
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	86.01	99.93	-----	-----	peak
2	5850.000	10.95	33.60	30.56	44.68	58.67	122.20	-63.53	peak
3	5860.000	10.94	33.58	30.56	46.24	60.20	109.40	-49.20	peak
4 pp	5926.653	10.87	33.55	30.53	46.88	60.77	68.20	-7.43	peak



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11a_TX_CH_165_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11a

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	10.99	33.50	30.57	87.30	101.22	-----	----- peak
2 5850.000	10.95	33.60	30.56	45.66	59.65	122.20	-62.55 peak
3 5860.000	10.94	33.58	30.56	44.92	58.88	109.40	-50.52 peak
4 pp 5935.584	10.86	33.57	30.53	46.24	60.14	68.20	-8.06 peak



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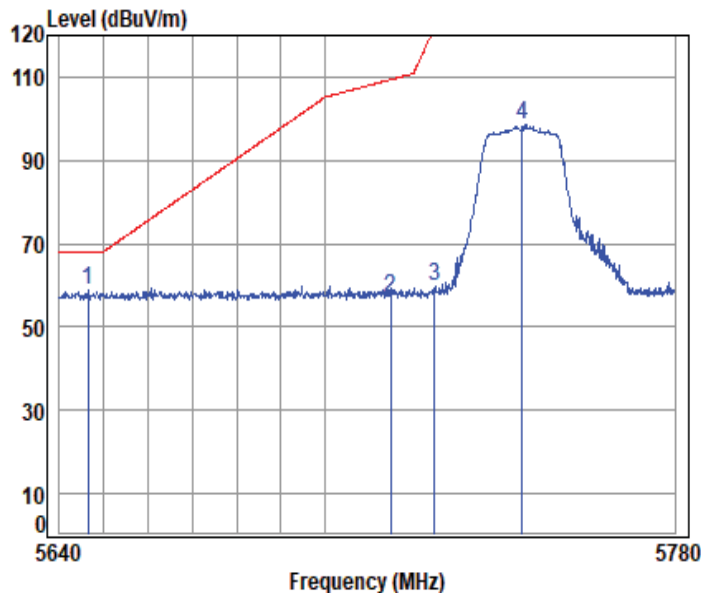
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11ac_HT(20M)_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11ac20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5646.365	10.48	33.09	30.64	46.07	59.00	68.20	-9.20	peak
2	5715.000	10.63	33.23	30.61	43.98	57.23	109.40	-52.17	peak
3	5725.000	10.68	33.25	30.61	46.47	59.79	122.20	-62.41	peak
4	5745.000	10.77	33.29	30.60	85.05	98.51	-----	-----	peak



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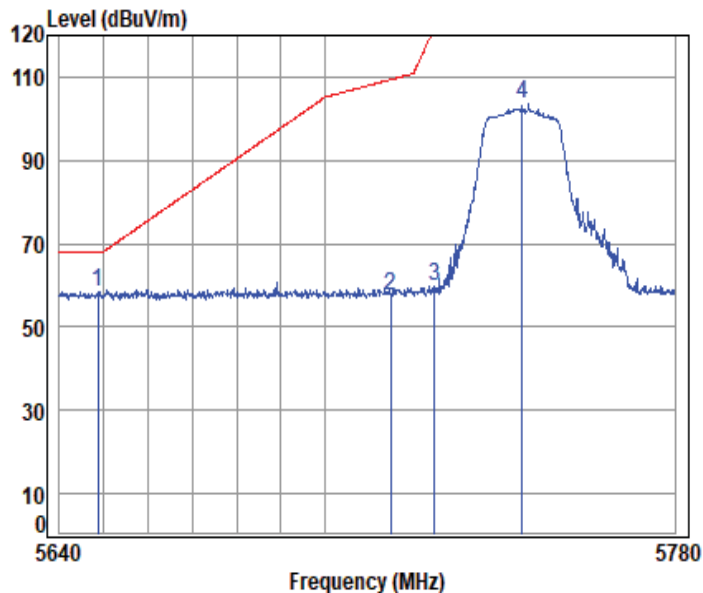
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11ac_HT(20M)_TX_CH_149_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11ac20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5648.719	10.48	33.10	30.64	45.41	58.35	68.20	-9.85	peak
2	5715.000	10.63	33.23	30.61	44.17	57.42	109.40	-51.98	peak
3	5725.000	10.68	33.25	30.61	46.46	59.78	122.20	-62.42	peak
4	5745.000	10.77	33.29	30.60	89.89	103.35	-----	-----	peak



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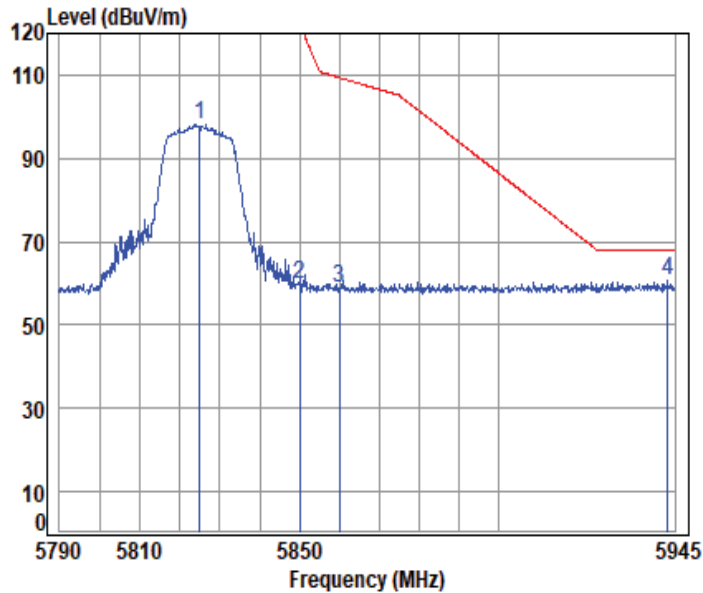
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11ac_HT(20M)_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11ac20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	84.32	98.24	-----	peak
2	5850.000	10.95	33.60	30.56	45.63	59.62	122.20	-62.58 peak
3	5860.000	10.94	33.58	30.56	45.05	59.01	109.40	-50.39 peak
4	pp 5943.116	10.86	33.59	30.52	46.71	60.64	68.20	-7.56 peak



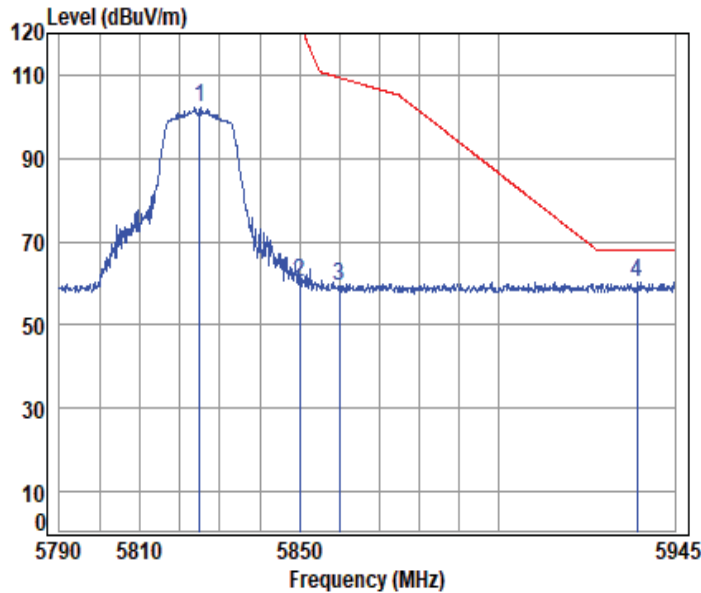
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11ac_HT(20M)_TX_CH_165_Verical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11ac20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	88.16	102.08	-----	-----	peak
2	5850.000	10.95	33.60	30.56	46.45	60.44	122.20	-61.76	peak
3	5860.000	10.94	33.58	30.56	45.17	59.13	109.40	-50.27	peak
4 pp	5935.427	10.86	33.57	30.53	46.41	60.31	68.20	-7.89	peak



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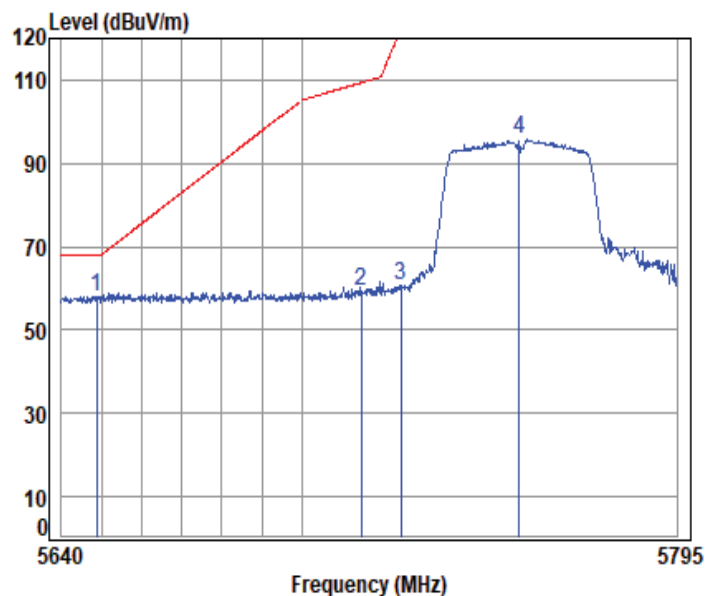
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SZEMC-TRF-01 Rev. A/1

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11ac_HT(40M)_TX_CH_151_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5755 Band edge

: 5.8G Wi-Fi 11ac40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5648.723	10.48	33.10	30.64	45.16	58.10	68.20	-10.10	peak
2	5715.000	10.63	33.23	30.61	46.08	59.33	109.40	-50.07	peak
3	5725.000	10.68	33.25	30.61	47.18	60.50	122.20	-61.70	peak
4	5755.000	10.81	33.31	30.60	82.16	95.68	-----	-----	peak



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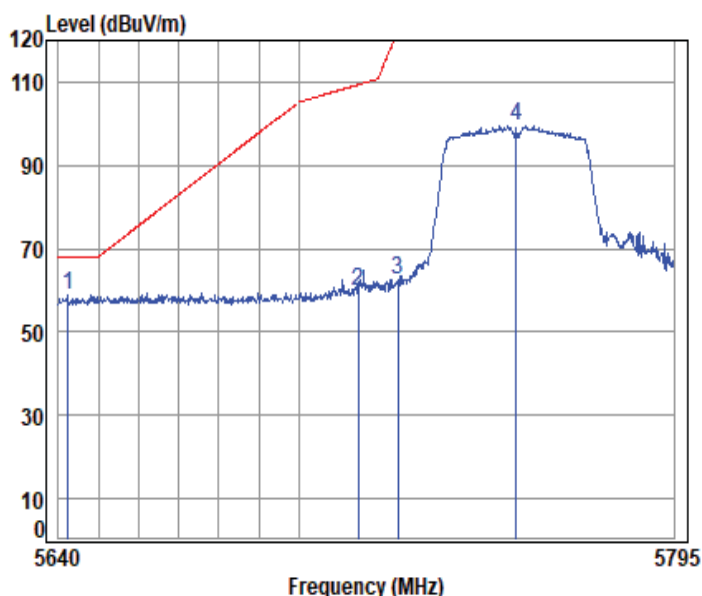
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11ac_HT(40M)_TX_CH_151_Verical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5755 Band edge

: 5.8G Wi-Fi 11ac40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5642.294	10.47	33.08	30.64	46.13	59.04	68.20	-9.16	peak
2	5715.000	10.63	33.23	30.61	46.48	59.73	109.40	-49.67	peak
3	5725.000	10.68	33.25	30.61	49.29	62.61	122.20	-59.59	peak
4	5755.000	10.81	33.31	30.60	86.12	99.64	-----	-----	peak



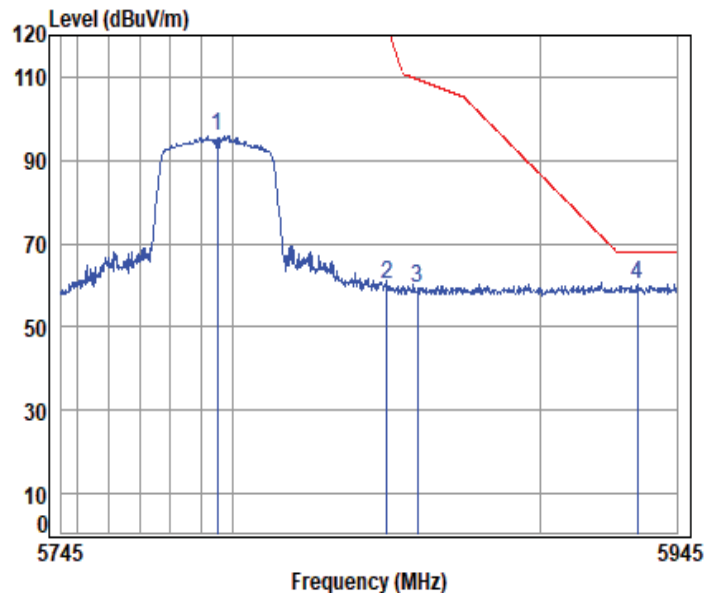
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11ac_HT(40M)_TX_CH_159_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5795 Band edge

: 5.8G Wi-Fi 11ac40

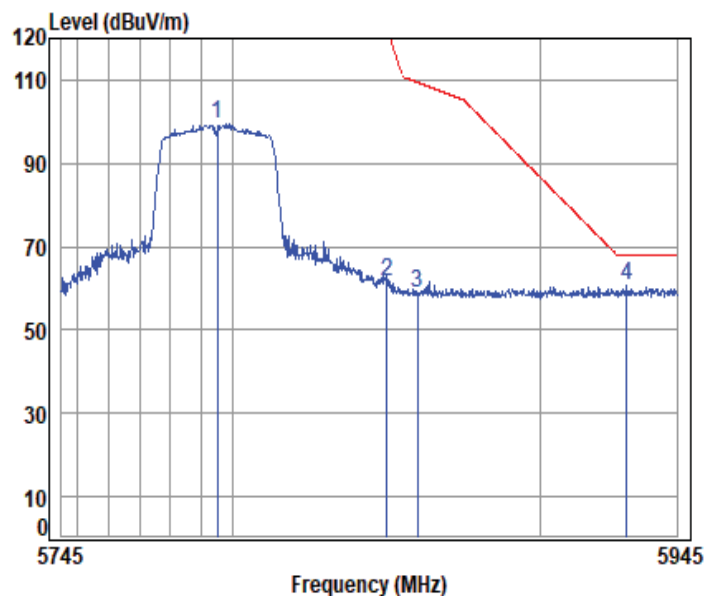
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	82.19	96.00	-----	-----	peak
2	5850.000	10.95	33.60	30.56	46.12	60.11	122.20	-62.09	peak
3	5860.000	10.94	33.58	30.56	45.17	59.13	109.40	-50.27	peak
4 pp	5931.994	10.86	33.56	30.53	46.43	60.32	68.20	-7.88	peak



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11ac_HT(40M)_TX_CH_159_Verical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5795 Band edge

: 5.8G Wi-Fi 11ac40

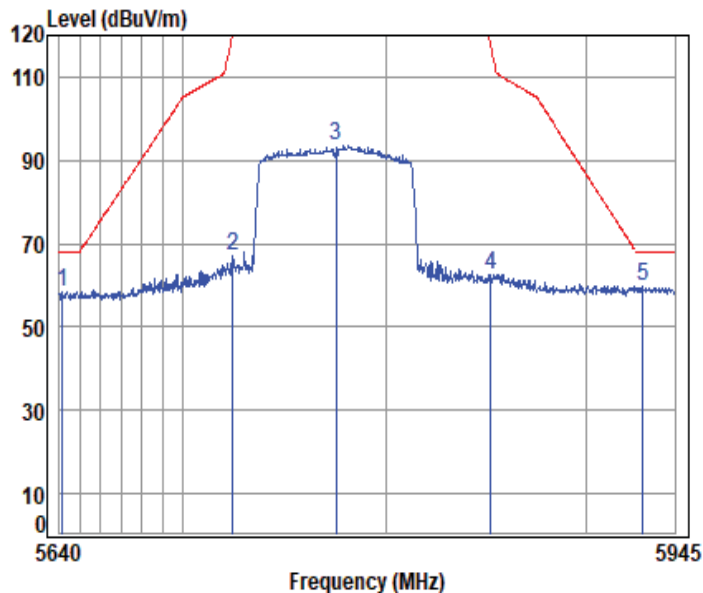
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	85.85	99.66	-----	-----	peak
2	5850.000	10.95	33.60	30.56	47.73	61.72	122.20	-60.48	peak
3	5860.000	10.94	33.58	30.56	44.91	58.87	109.40	-50.53	peak
4 pp	5928.544	10.87	33.56	30.53	46.82	60.72	68.20	-7.48	peak



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11ac_VHT(80M)_TX_CH_155_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

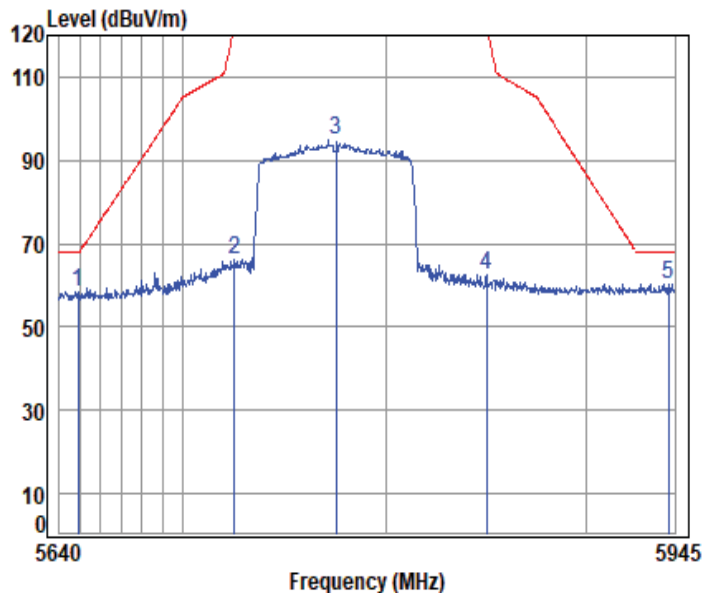
Mode : 5775 Band edge

: 5.8G Wi-Fi 11ac20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5641.485	10.47	33.08	30.64	45.39	58.30	68.20	-9.90	peak
2	5724.088	10.67	33.25	30.61	53.82	67.13	120.12	-52.99	peak
3	5775.000	10.91	33.35	30.59	79.74	93.41	-----	-----	peak
4	5852.116	10.95	33.60	30.56	48.60	62.59	117.37	-54.78	peak
5 pp	5928.741	10.87	33.56	30.53	45.67	59.57	68.20	-8.63	peak



11ac_VHT(80M)_TX_CH_155_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5775 Band edge

: 5.8G Wi-Fi 11ac20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5648.918	10.48	33.10	30.64	45.65	58.59	68.20	-9.61 peak
2	5724.993	10.67	33.25	30.61	52.91	66.22	122.18	-55.96 peak
3	5775.000	10.91	33.35	30.59	81.07	94.74	-----	----- peak
4	5849.958	10.96	33.60	30.56	48.55	62.55	-----	----- peak
5 pp	5941.870	10.86	33.58	30.52	46.52	60.44	68.20	-7.76 peak



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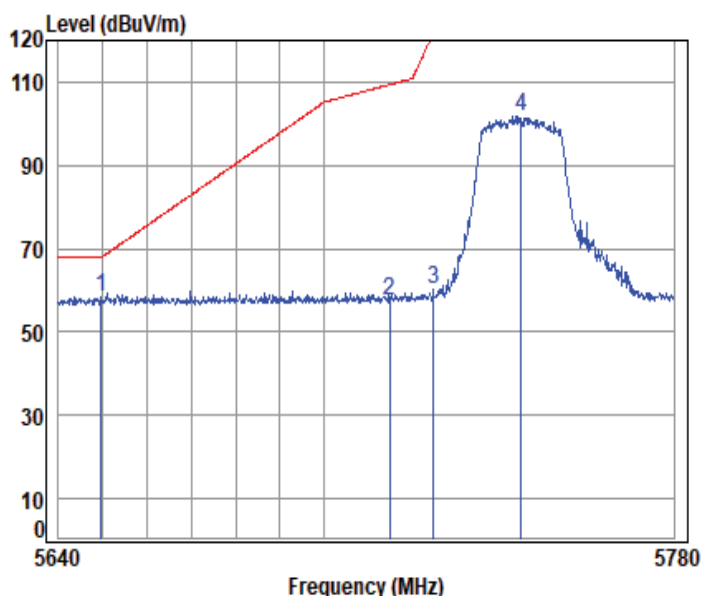
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

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11ax_20M_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5649.688	10.48	33.10	30.64	45.69	58.63	68.20	-9.57	peak
2	5715.000	10.63	33.23	30.61	44.35	57.60	109.40	-51.80	peak
3	5725.000	10.68	33.25	30.61	47.00	60.32	122.20	-61.88	peak
4	5745.000	10.77	33.29	30.60	88.39	101.85	-----	-----	peak



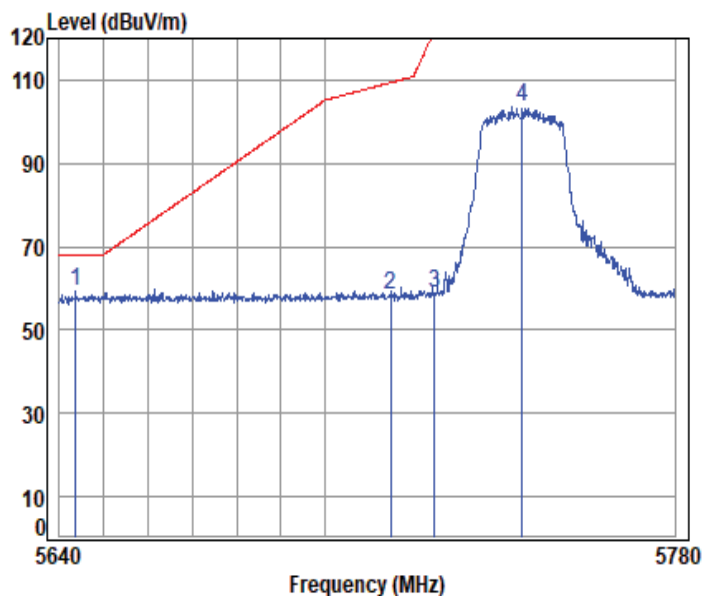
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11ax_20M_TX_CH_149_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11ax20

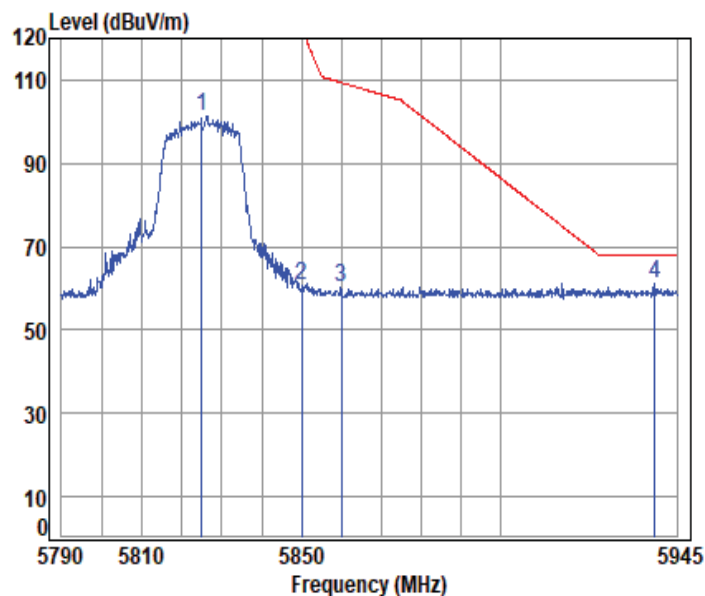
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5643.735	10.48	33.09	30.64	46.17	59.10	68.20	-9.10	peak
2	5715.000	10.63	33.23	30.61	44.95	58.20	109.40	-51.20	peak
3	5725.000	10.68	33.25	30.61	45.75	59.07	122.20	-63.13	peak
4	5745.000	10.77	33.29	30.60	89.89	103.35	-----	-----	peak



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11ax_20M_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11ax20

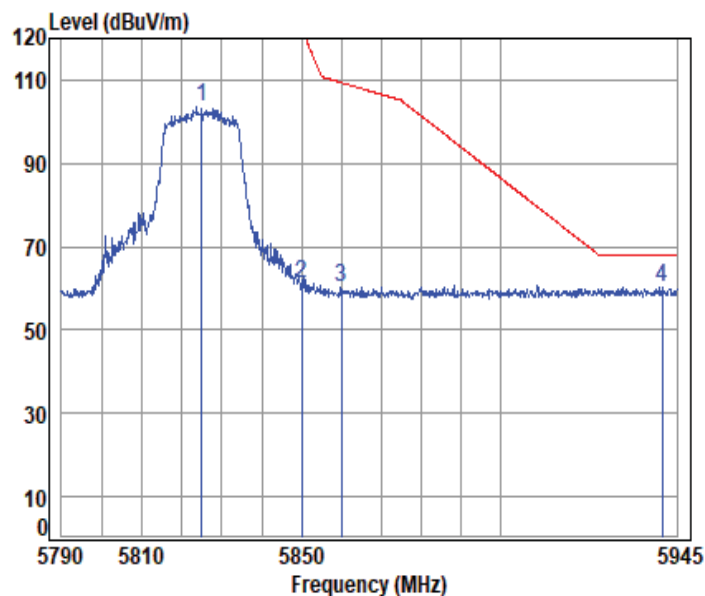
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	87.39	101.31	-----	-----	peak
2	5850.000	10.95	33.60	30.56	46.76	60.75	122.20	-61.45	peak
3	5860.000	10.94	33.58	30.56	46.07	60.03	109.40	-49.37	peak
4 pp	5939.349	10.86	33.58	30.52	47.31	61.23	68.20	-6.97	peak



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11ax_20M_TX_CH_165_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	89.56	103.48	-----	-----	peak
2	5850.000	10.95	33.60	30.56	46.93	60.92	122.20	-61.28	peak
3	5860.000	10.94	33.58	30.56	46.13	60.09	109.40	-49.31	peak
4 pp	5941.389	10.86	33.58	30.52	46.36	60.28	68.20	-7.92	peak



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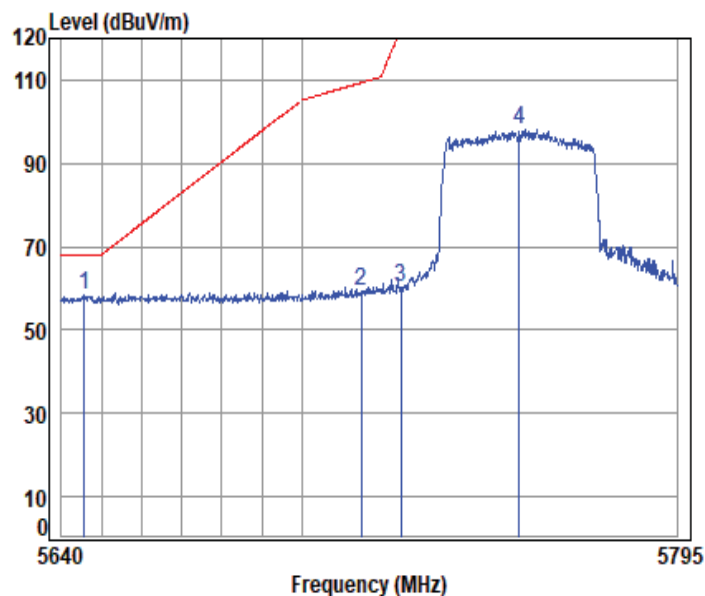
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11ax_40M_TX_CH_151_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5755 Band edge

: 5.8G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5645.661	10.48	33.09	30.64	45.41	58.34	68.20	-9.86	peak
2	5715.000	10.63	33.23	30.61	46.08	59.33	109.40	-50.07	peak
3	5725.000	10.68	33.25	30.61	47.08	60.40	122.20	-61.80	peak
4	5755.000	10.81	33.31	30.60	84.67	98.19	-----	-----	peak



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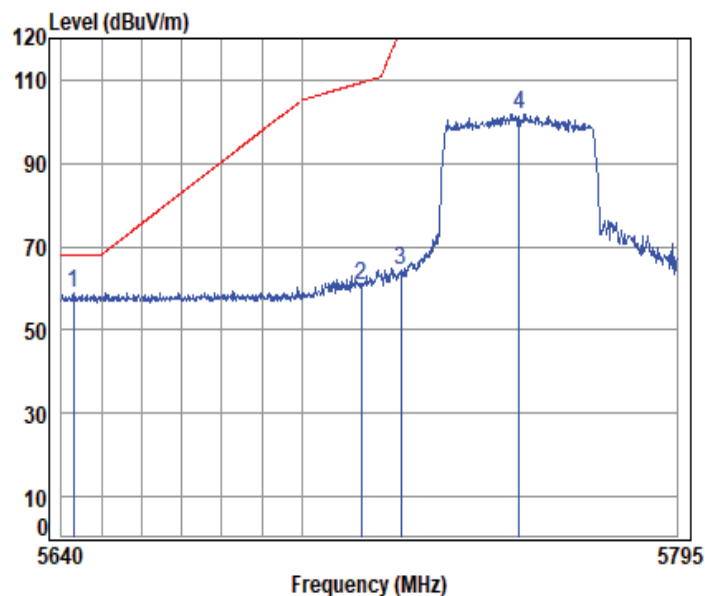
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11ax_40M_TX_CH_151_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5755 Band edge

: 5.8G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5642.906	10.47	33.09	30.64	45.89	58.81	68.20	-9.39	peak
2	5715.000	10.63	33.23	30.61	47.65	60.90	109.40	-48.50	peak
3	5725.000	10.68	33.25	30.61	50.95	64.27	122.20	-57.93	peak
4	5755.000	10.81	33.31	30.60	88.11	101.63	-----	-----	peak



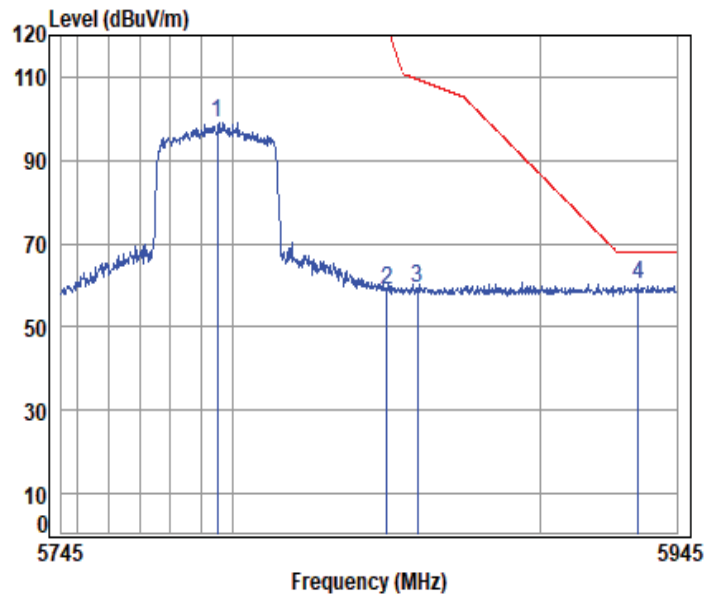
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11ax_40M_TX_CH_159_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5795 Band edge

: 5.8G Wi-Fi 11ax40

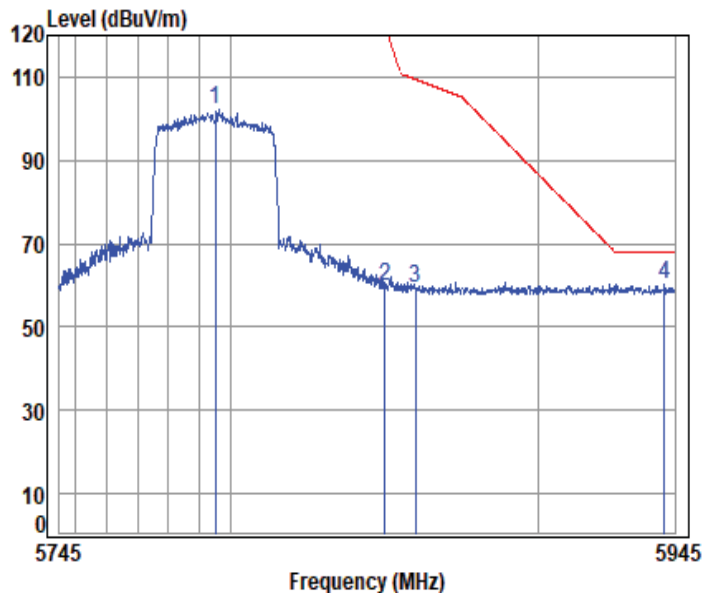
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5795.000	11.00	33.39	30.58	85.02	98.83	-----	----- peak
2	5850.000	10.95	33.60	30.56	44.90	58.89	122.20	-63.31 peak
3	5860.000	10.94	33.58	30.56	45.29	59.25	109.40	-50.15 peak
4 pp	5932.400	10.86	33.56	30.53	46.20	60.09	68.20	-8.11 peak



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11ax_40M_TX_CH_159_Verical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5795 Band edge

: 5.8G Wi-Fi 11ax40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	88.17	101.98	-----	-----	peak
2	5850.000	10.95	33.60	30.56	45.99	59.98	122.20	-62.22	peak
3	5860.000	10.94	33.58	30.56	45.16	59.12	109.40	-50.28	peak
4 pp	5941.542	10.86	33.58	30.52	46.32	60.24	68.20	-7.96	peak



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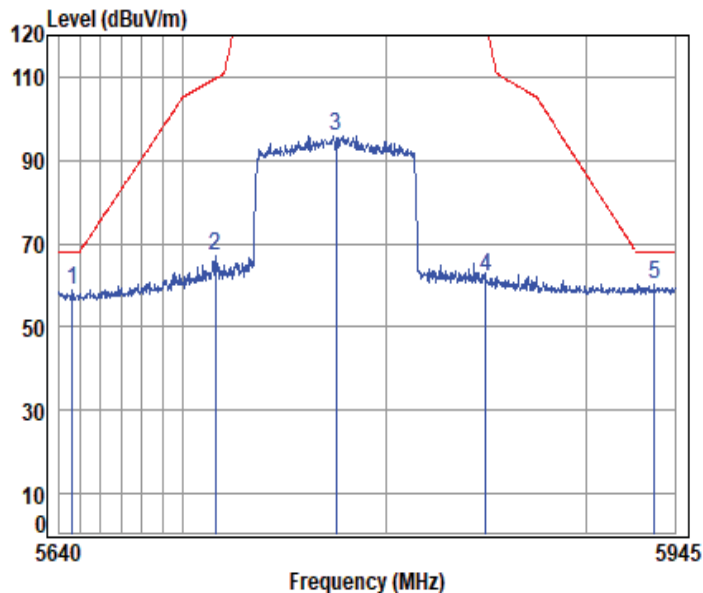
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SZEMC-TRF-01 Rev. A/1

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11ax_80M_TX_CH_155_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5775 Band edge

: 5.8G Wi-Fi 11ax80

		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	5646.241	10.48	33.09	30.64	45.92	58.85	68.20	-9.35 peak
2	5715.955	10.63	33.23	30.61	53.69	66.94	109.67	-42.73 peak
3	5775.000	10.91	33.35	30.59	82.32	95.99	-----	----- peak
4	5849.650	10.96	33.60	30.56	48.18	62.18	-----	----- peak
5 pp	5934.677	10.86	33.57	30.53	46.15	60.05	68.20	-8.15 peak



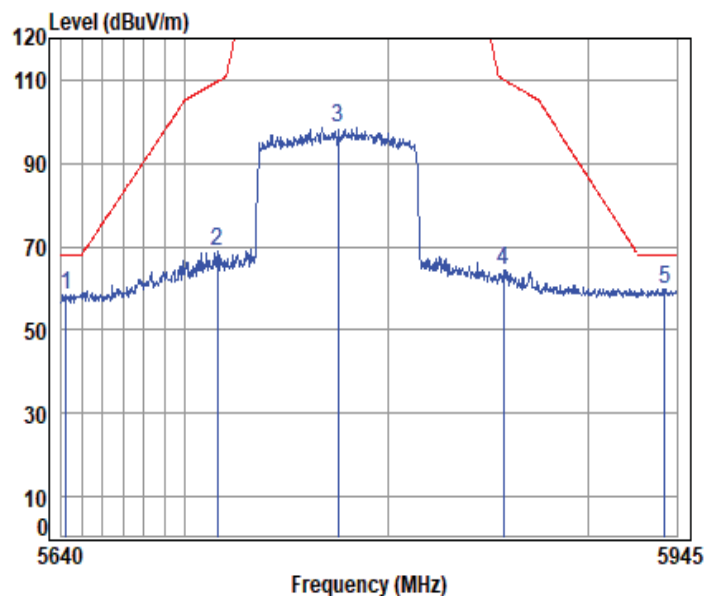
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11ax_80M_TX_CH_155_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5775 Band edge

: 5.8G Wi-Fi 11ax80

		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	5642.080	10.47	33.08	30.64	45.59	58.50	68.20	-9.70	peak
2	5715.654	10.63	33.23	30.61	55.57	68.82	109.58	-40.76	peak
3	5775.000	10.91	33.35	30.59	84.78	98.45	-----	-----	peak
4	5857.666	10.95	33.58	30.56	50.49	64.46	110.05	-45.59	peak
5 pp	5938.741	10.86	33.58	30.52	45.80	59.72	68.20	-8.48	peak



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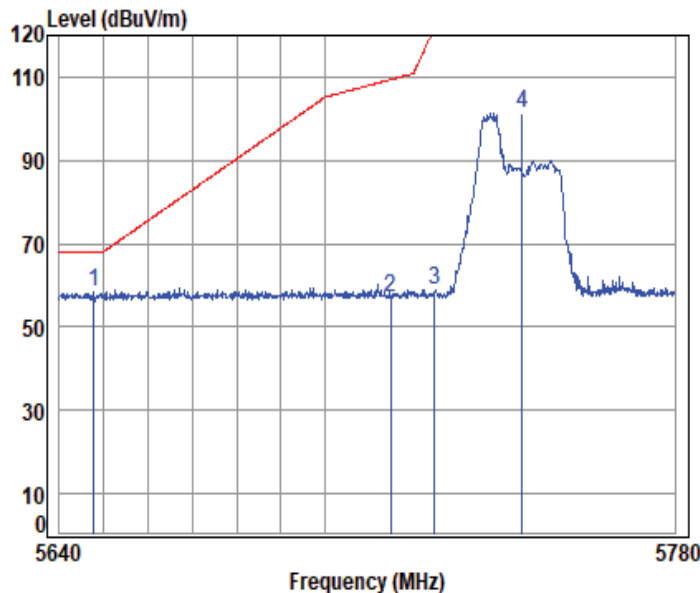
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250500212306

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11ax_20M_Partial_RU52_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11ax20 RU52

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5647.750	10.48	33.10	30.64	45.28	58.22	68.20	-9.98	peak
2	5715.000	10.63	33.23	30.61	43.78	57.03	109.40	-52.37	peak
3	5725.000	10.68	33.25	30.61	45.31	58.63	122.20	-63.57	peak
4	5745.000	10.77	33.29	30.60	87.68	101.14	-----	-----	peak



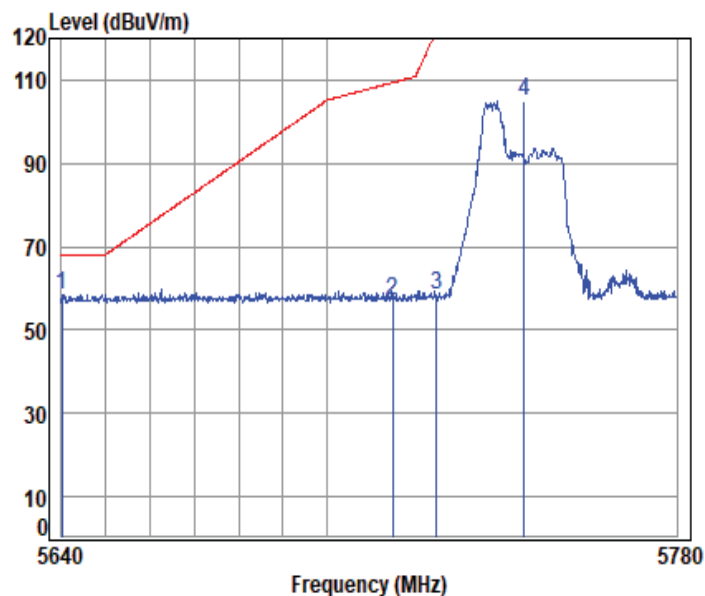
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11ax_20M_Partial_RU52_TX_CH_149_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11ax20 RU52

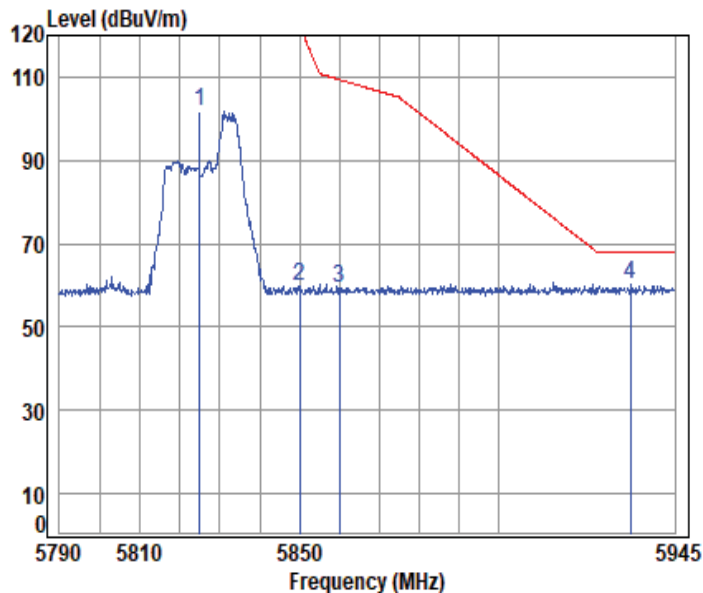
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5640.138	10.47	33.08	30.64	45.59	58.50	68.20	-9.70	peak
2	5715.000	10.63	33.23	30.61	43.99	57.24	109.40	-52.16	peak
3	5725.000	10.68	33.25	30.61	44.94	58.26	122.20	-63.94	peak
4	5745.000	10.77	33.29	30.60	91.32	104.78	-----	-----	peak



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11ax_20M_Partial_RU52_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

Job No : 02123WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11ax20 RU52

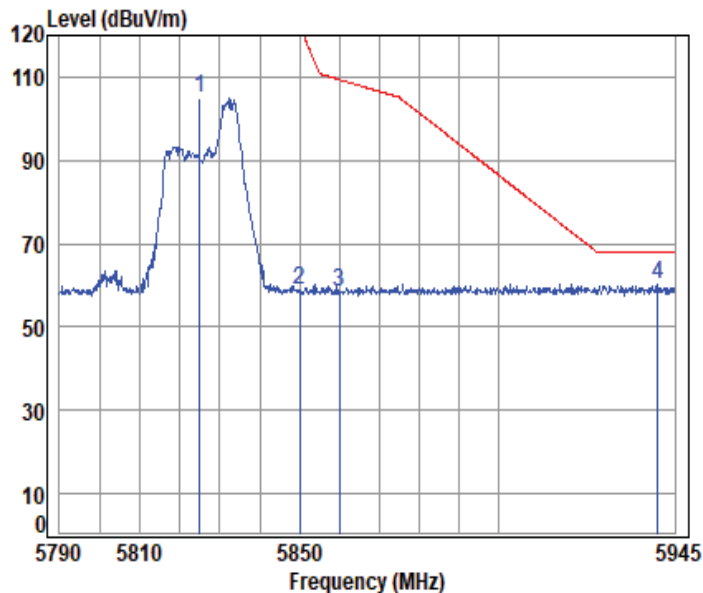
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	87.62	101.54	-----	-----	peak
2	5850.000	10.95	33.60	30.56	45.77	59.76	122.20	-62.44	peak
3	5860.000	10.94	33.58	30.56	45.28	59.24	109.40	-50.16	peak
4 pp	5933.703	10.86	33.57	30.53	46.32	60.22	68.20	-7.98	peak



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11ax_20M_Partial_RU52_TX_CH_165_Vertical



Condition: 3m VERTICAL

Job No : 02123WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11ax20 RU52

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	90.95	104.87	-----	-----	peak
2	5850.000	10.95	33.60	30.56	44.96	58.95	122.20	-63.25	peak
3	5860.000	10.94	33.58	30.56	44.55	58.51	109.40	-50.89	peak
4 pp	5940.604	10.86	33.58	30.52	46.20	60.12	68.20	-8.08	peak



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7.6 Channel Move Time

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

Limit:

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

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

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

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 39.6 % RH Atmospheric Pressure: 1020 mbar



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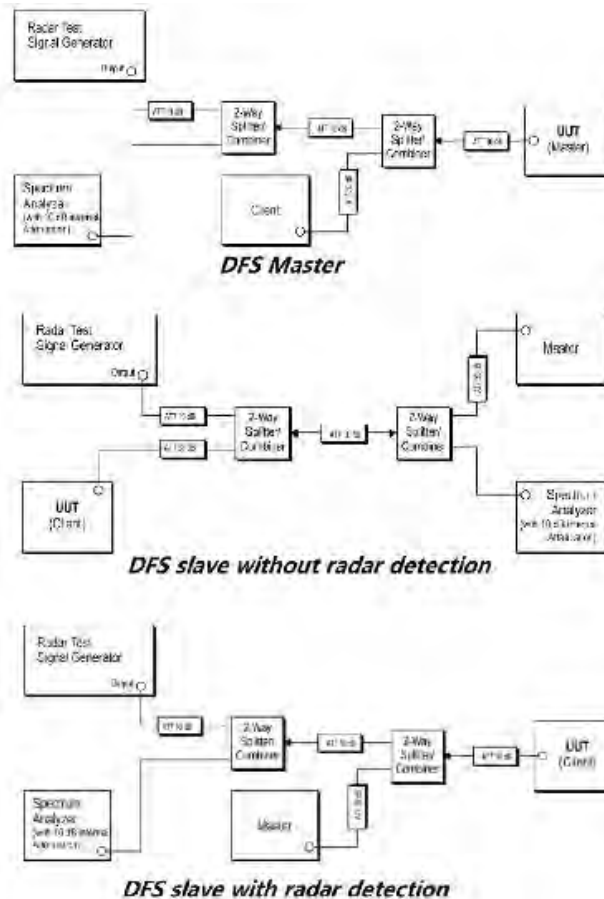
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7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details

7.7 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2

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

7.7.1 E.U.T. Operation

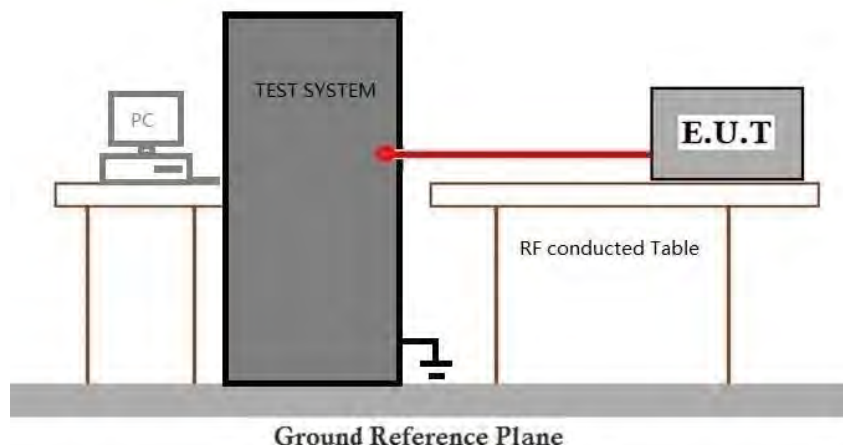
Operating Environment:

Temperature: 21.2 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

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

7.8.1 E.U.T. Operation

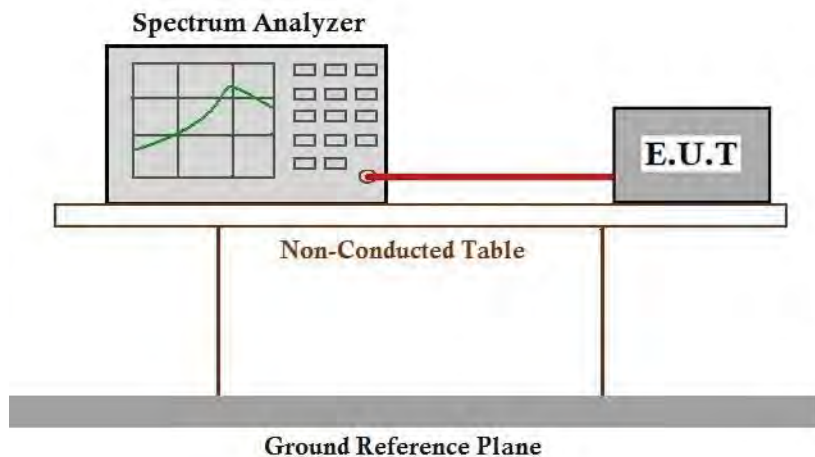
Operating Environment:

Temperature: 21.2 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 26dB Emission bandwidth

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

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

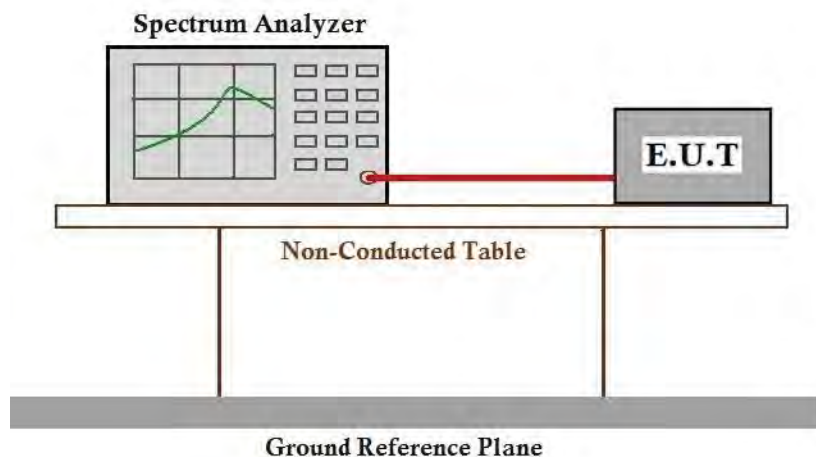
Humidity: 43.9 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.10 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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

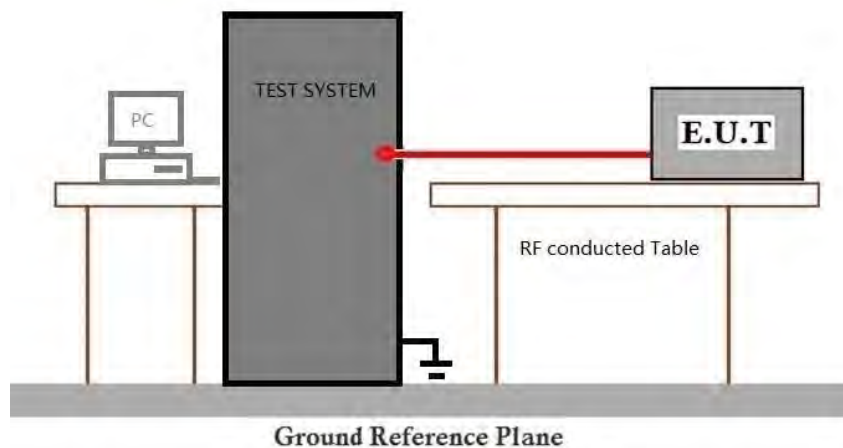
Humidity: 43.9 % RH

Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.11 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.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

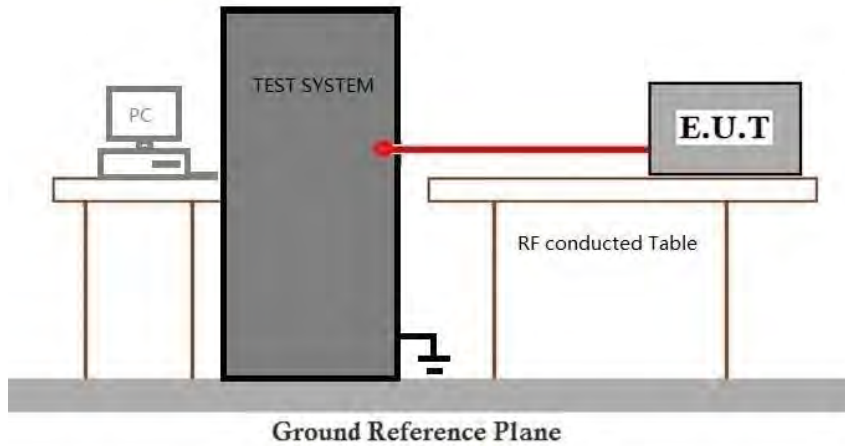
Humidity: 43.9 % RH

Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

Please Refer to Appendix for Details

7.12 Frequency Stability

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

7.12.1 E.U.T. Operation

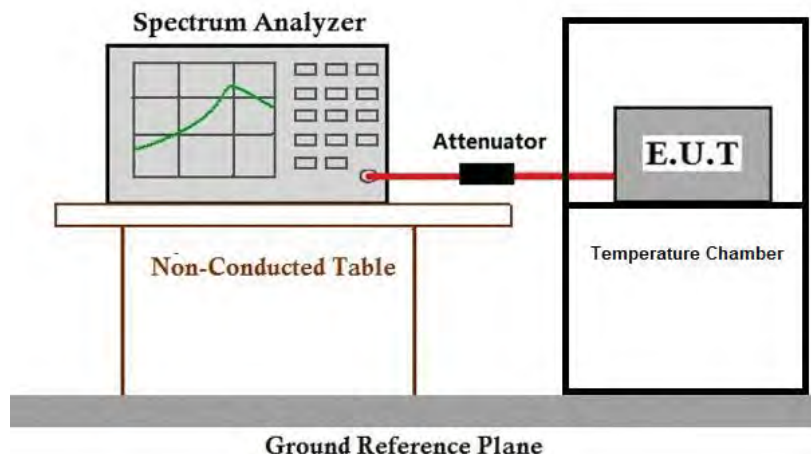
Operating Environment:

Temperature: 21.2 °C Humidity: 43.9 % RH Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.13 Non-occupancy period

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

Limit:

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

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

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

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

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 39.6 % RH Atmospheric Pressure: 1020 mbar



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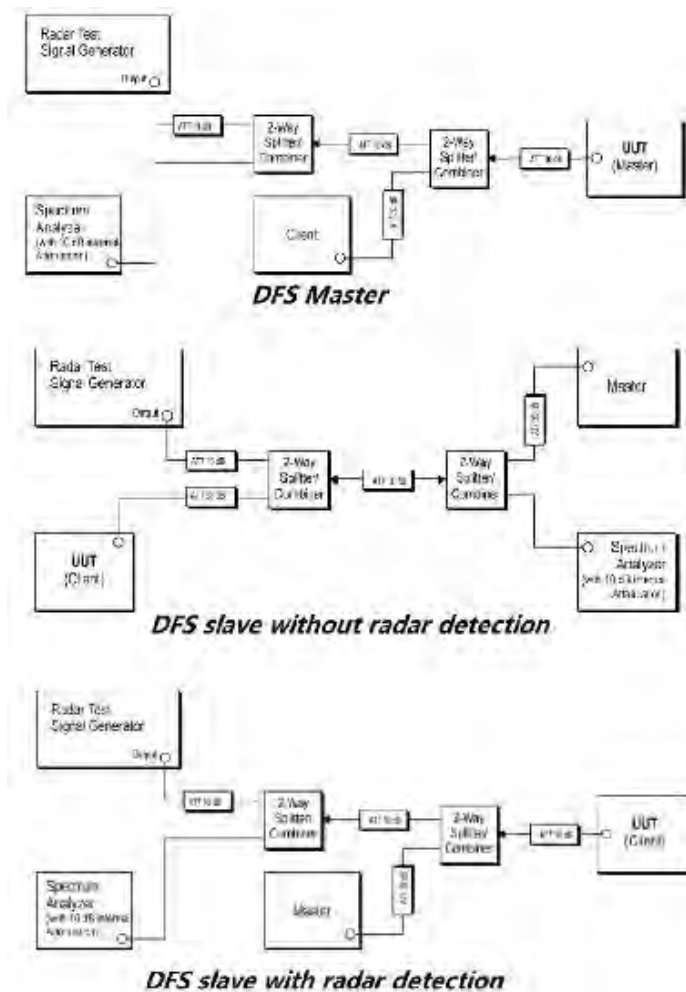
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7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram



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7.13.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.14 Channel Closing Transmission Time

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

Limit:

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

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

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

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

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 39.6 % RH Atmospheric Pressure: 1020 mbar



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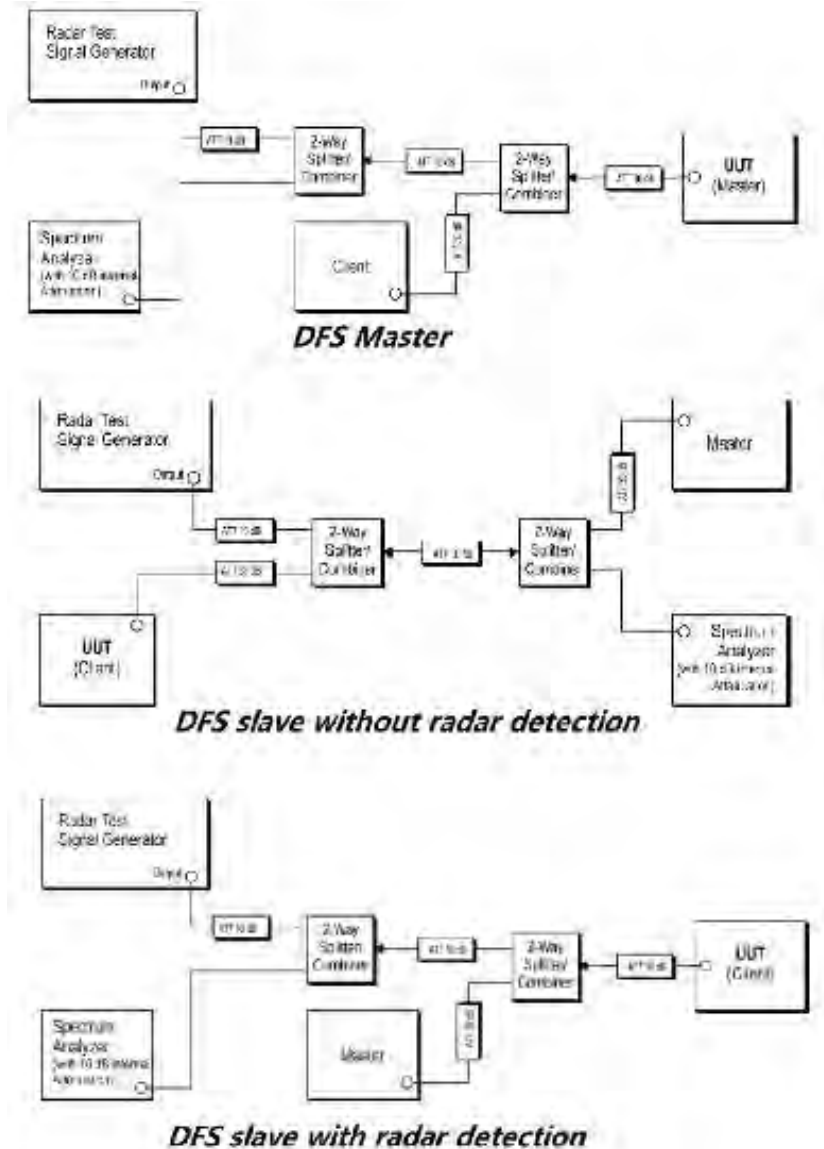
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7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

7.14.3 Test Setup Diagram



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7.14.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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8 Test Setup Photo

Please refer to SZCR2505002123 Appendix_Setup Photo

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2505002123WM



10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant9

Ant9									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	1.393	1.435	97.07	0.13	0.03
		5200	/	/	1.392	1.435	97.00	0.13	0.00
		5240	/	/	1.392	1.435	97.00	0.13	0.03
		5260	/	/	1.392	1.435	97.00	0.13	0.03
		5300	/	/	1.393	1.435	97.07	0.13	0.04
		5320	/	/	1.392	1.435	97.00	0.13	0.03
		5500	/	/	1.394	1.436	97.08	0.13	0.07
		5580	/	/	1.392	1.434	97.07	0.13	0.07
		5700	/	/	1.393	1.435	97.07	0.13	0.00
		5745	/	/	1.392	1.435	97.00	0.13	0.03
		5785	/	/	1.393	1.435	97.07	0.13	0.03
		5825	/	/	1.393	1.435	97.07	0.13	0.06
802.11n (HT20)	SISO	5180	/	/	1.301	1.343	96.87	0.14	0.07
		5200	/	/	1.301	1.343	96.87	0.14	0.03
		5240	/	/	1.301	1.343	96.87	0.14	0.07
		5260	/	/	1.301	1.343	96.87	0.14	0.03
		5300	/	/	1.301	1.344	96.80	0.14	0.10
		5320	/	/	1.301	1.343	96.87	0.14	0.07
		5500	/	/	1.301	1.343	96.87	0.14	0.03
		5580	/	/	1.301	1.344	96.80	0.14	0.07
		5700	/	/	1.300	1.343	96.80	0.14	0.03
		5745	/	/	1.301	1.343	96.87	0.14	0.04
		5785	/	/	1.300	1.343	96.80	0.14	0.07
		5825	/	/	1.301	1.343	96.87	0.14	0.07
802.11n (HT40)	SISO	5190	/	/	0.644	0.687	93.74	0.28	0.04
		5230	/	/	0.644	0.687	93.74	0.28	0.10
		5270	/	/	0.644	0.687	93.74	0.28	0.07

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		5310	/	/	0.644	0.687	93.74	0.28	0.03
		5510	/	/	0.644	0.686	93.88	0.27	0.03
		5550	/	/	0.645	0.687	93.89	0.27	0.03
		5670	/	/	0.644	0.687	93.74	0.28	0.03
		5755	/	/	0.645	0.687	93.89	0.27	0.07
		5795	/	/	0.644	0.687	93.74	0.28	0.04
802.11ac (VHT20)	SISO	5180	/	/	1.309	1.351	96.89	0.14	0.00
		5200	/	/	1.309	1.351	96.89	0.14	0.07
		5240	/	/	1.310	1.352	96.89	0.14	0.07
		5260	/	/	1.309	1.351	96.89	0.14	0.07
		5300	/	/	1.309	1.352	96.82	0.14	0.07
		5320	/	/	1.308	1.351	96.82	0.14	0.10
		5500	/	/	1.310	1.352	96.89	0.14	0.03
		5580	/	/	1.310	1.352	96.89	0.14	0.03
		5700	/	/	1.309	1.351	96.89	0.14	0.03
		5745	/	/	1.309	1.351	96.89	0.14	0.00
		5785	/	/	1.308	1.351	96.82	0.14	0.03
		5825	/	/	1.310	1.352	96.89	0.14	0.03
802.11ac (VHT40)	SISO	5190	/	/	0.652	0.694	93.95	0.27	0.04
		5230	/	/	0.652	0.695	93.81	0.28	0.04
		5270	/	/	0.652	0.695	93.81	0.28	0.03
		5310	/	/	0.652	0.695	93.81	0.28	0.07
		5510	/	/	0.653	0.695	93.96	0.27	0.07
		5550	/	/	0.652	0.695	93.81	0.28	0.07
		5670	/	/	0.653	0.696	93.82	0.28	0.03
		5755	/	/	0.652	0.695	93.81	0.28	0.03
802.11ac (VHT80)	SISO	5795	/	/	0.652	0.695	93.81	0.28	0.03
		5210	/	/	0.325	0.367	88.56	0.53	0.07
		5290	/	/	0.324	0.367	88.28	0.54	0.04
		5530	/	/	0.324	0.368	88.04	0.55	0.16
		5610	/	/	0.325	0.367	88.56	0.53	0.07
802.11ax (HEW20)	SISO	5775	/	/	0.324	0.367	88.28	0.54	0.04
		5180	SU	/	1.014	1.057	95.93	0.18	0.03
		5200	SU	/	1.014	1.057	95.93	0.18	0.03
		5240	SU	/	1.014	1.057	95.93	0.18	0.03
		5260	SU	/	1.014	1.057	95.93	0.18	0.03
		5300	SU	/	1.014	1.057	95.93	0.18	0.03
		5320	SU	/	1.014	1.057	95.93	0.18	0.03
		5500	SU	/	1.014	1.057	95.93	0.18	0.07
		5580	SU	/	1.014	1.058	95.84	0.18	0.03

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		5700	SU	/	1.014	1.057	95.93	0.18	0.03
		5745	SU	/	1.014	1.057	95.93	0.18	0.03
		5785	SU	/	1.014	1.058	95.84	0.18	0.07
		5825	SU	/	1.014	1.057	95.93	0.18	0.07
802.11ax (HEW40)	SISO	5190	SU	/	0.534	0.577	92.55	0.34	0.07
		5230	SU	/	0.534	0.577	92.55	0.34	0.07
		5270	SU	/	0.534	0.577	92.55	0.34	0.10
		5310	SU	/	0.534	0.577	92.55	0.34	0.03
		5510	SU	/	0.534	0.577	92.55	0.34	0.10
		5550	SU	/	0.534	0.578	92.39	0.34	0.10
		5670	SU	/	0.534	0.577	92.55	0.34	0.10
		5755	SU	/	0.534	0.577	92.55	0.34	0.14
		5795	SU	/	0.534	0.577	92.55	0.34	0.07
802.11ax (HEW80)	SISO	5210	SU	/	0.288	0.331	87.01	0.60	0.06
		5290	SU	/	0.287	0.331	86.71	0.62	0.06
		5530	SU	/	0.290	0.331	87.61	0.57	0.09
		5610	SU	/	0.289	0.331	87.31	0.59	0.12
		5775	SU	/	0.287	0.331	86.71	0.62	0.08



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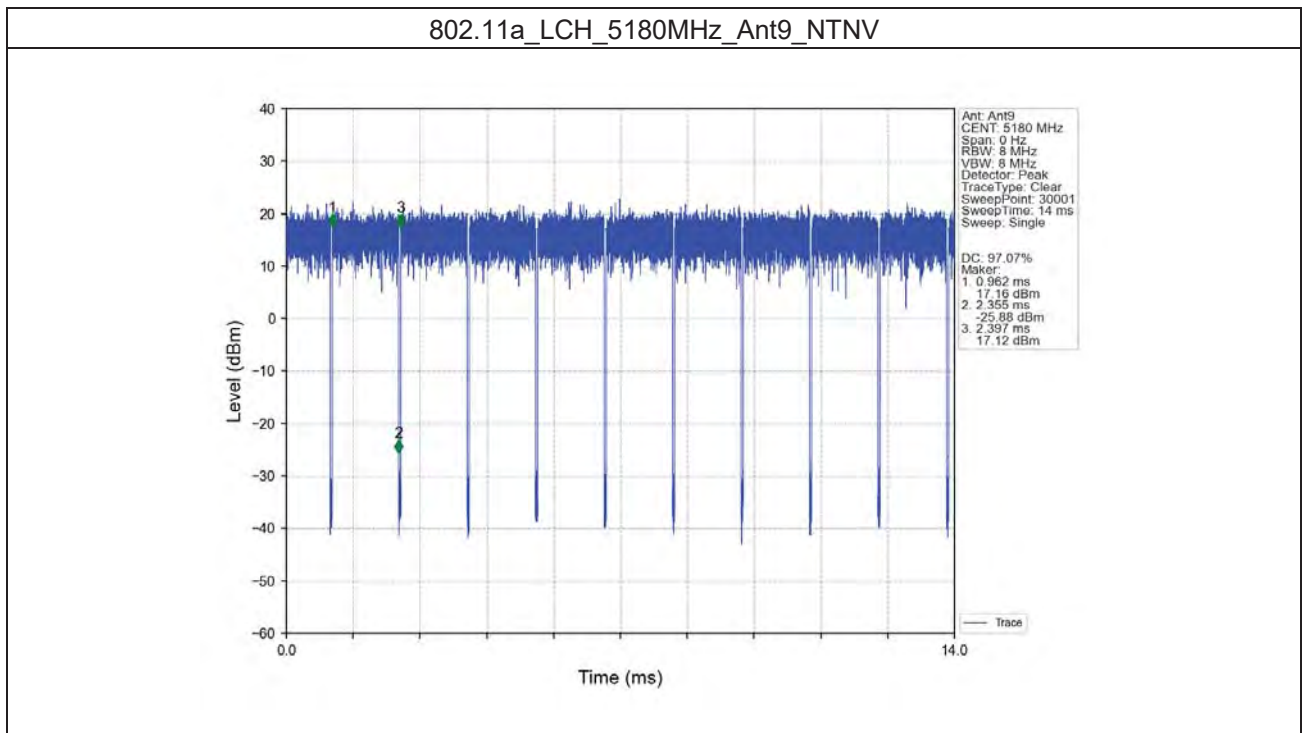
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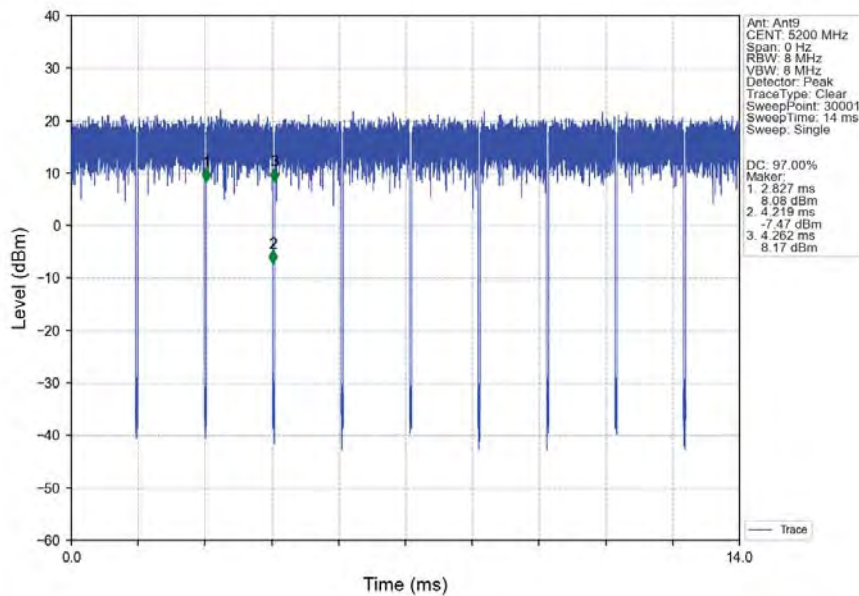
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

1.2 Test Graph

1.2.1 Ant9



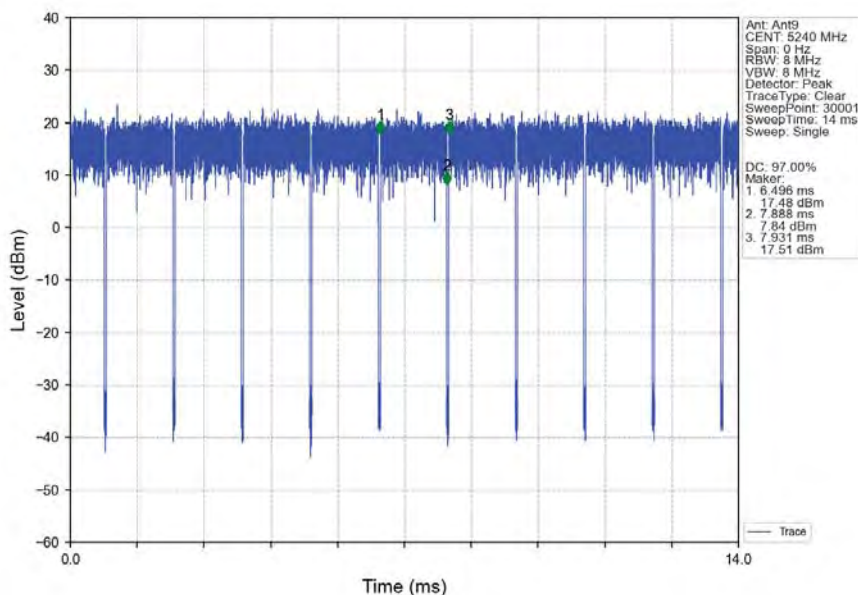
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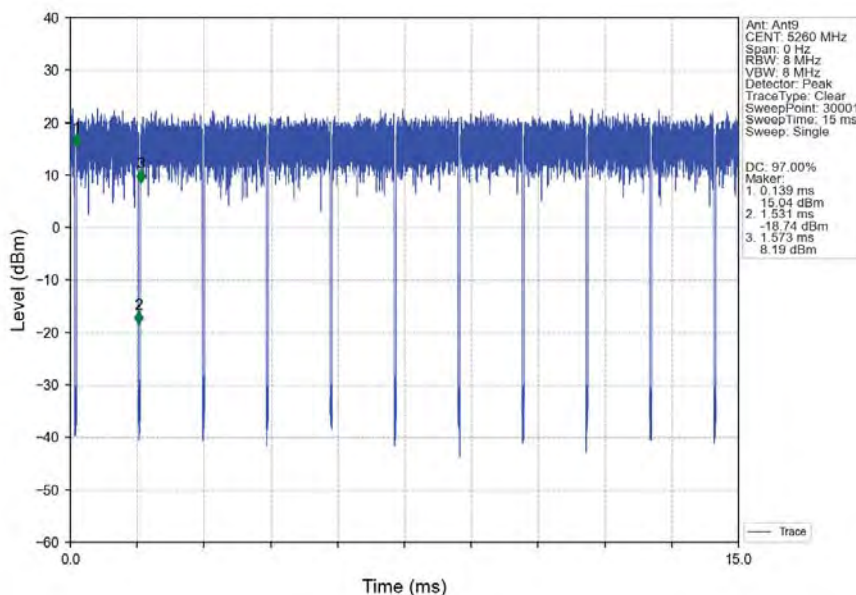
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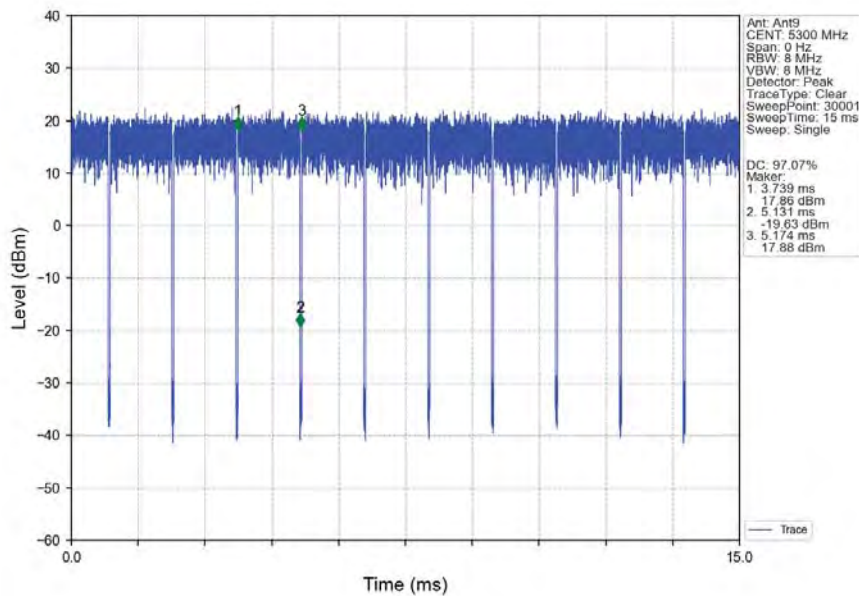
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802.11a_LCH_5260MHz_Ant9_NTNV



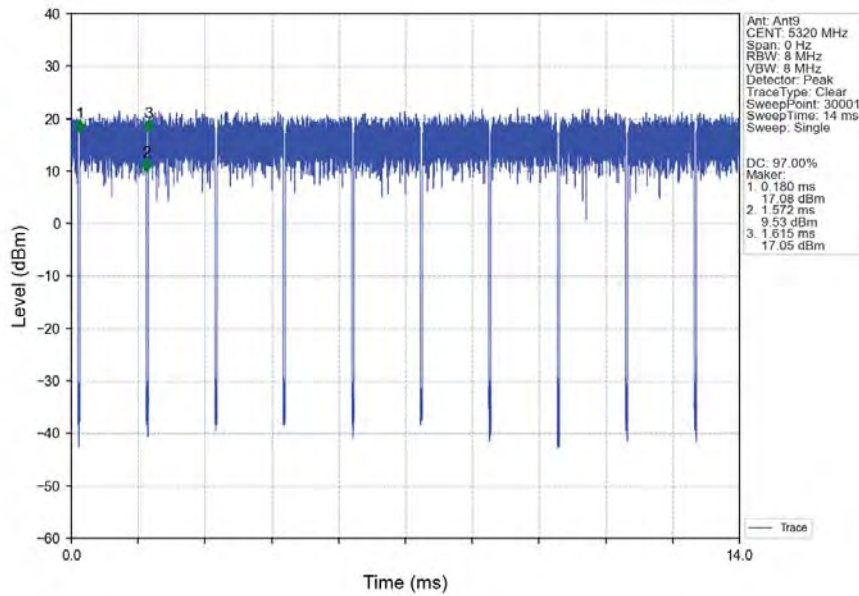
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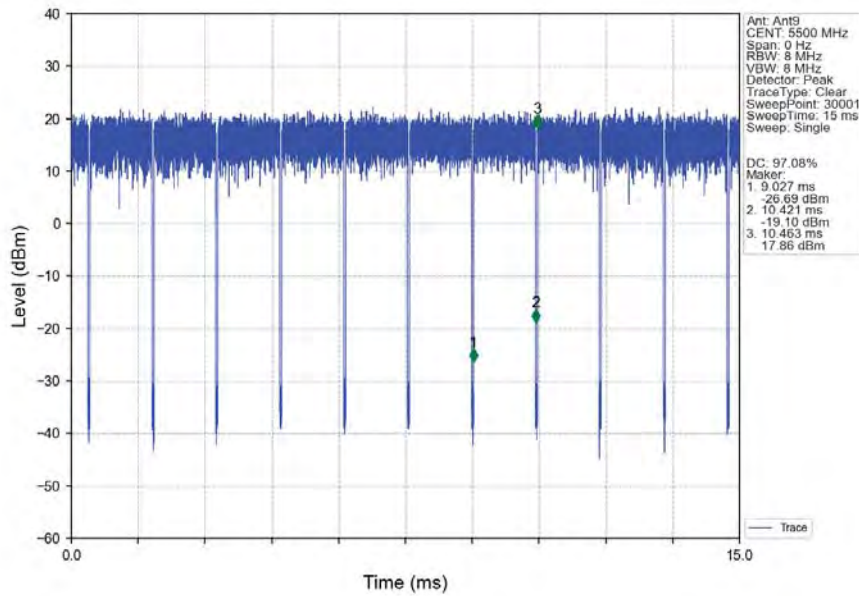
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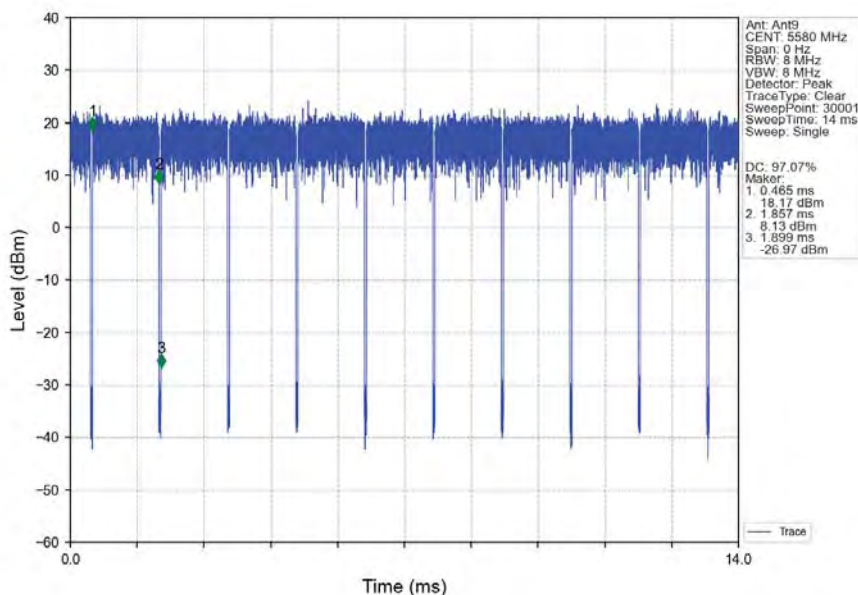
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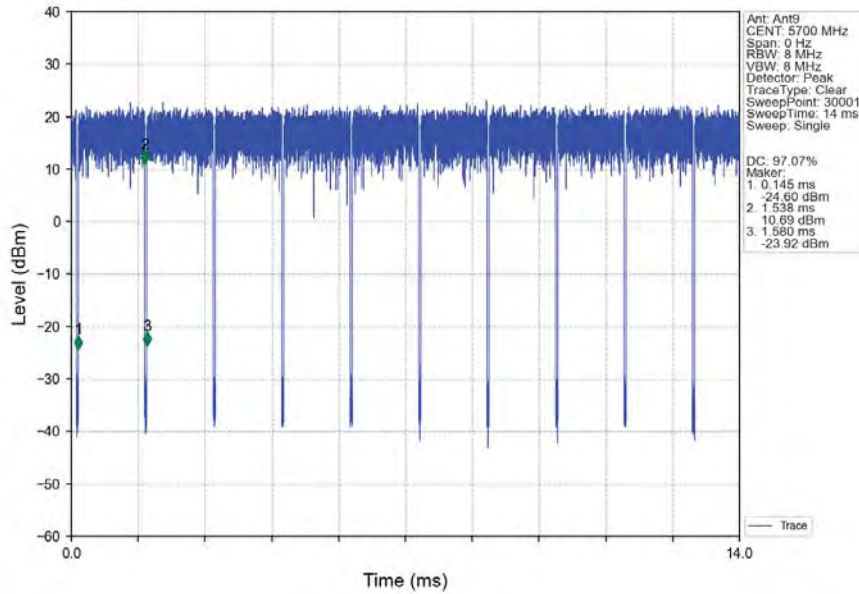
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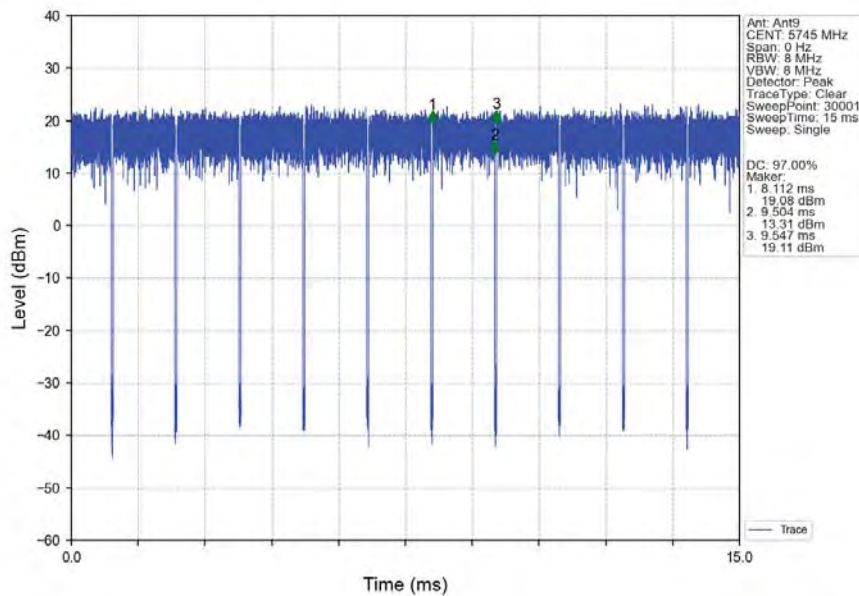
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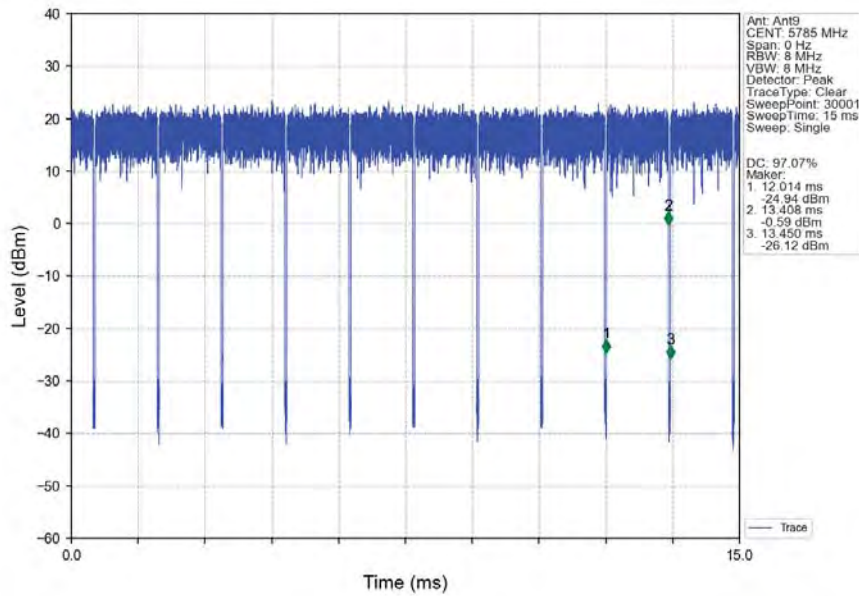
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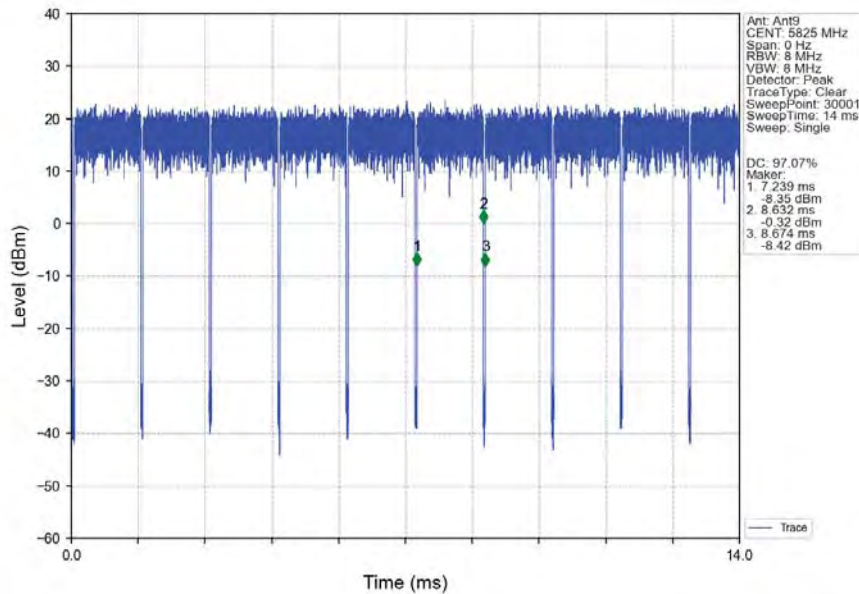
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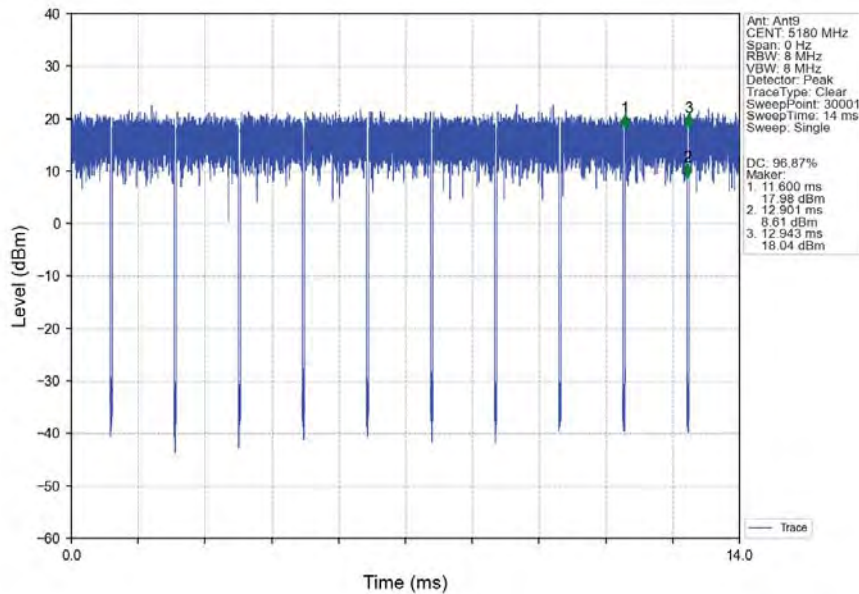
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802.11a_HCH_5825MHz_Ant9_NTNV



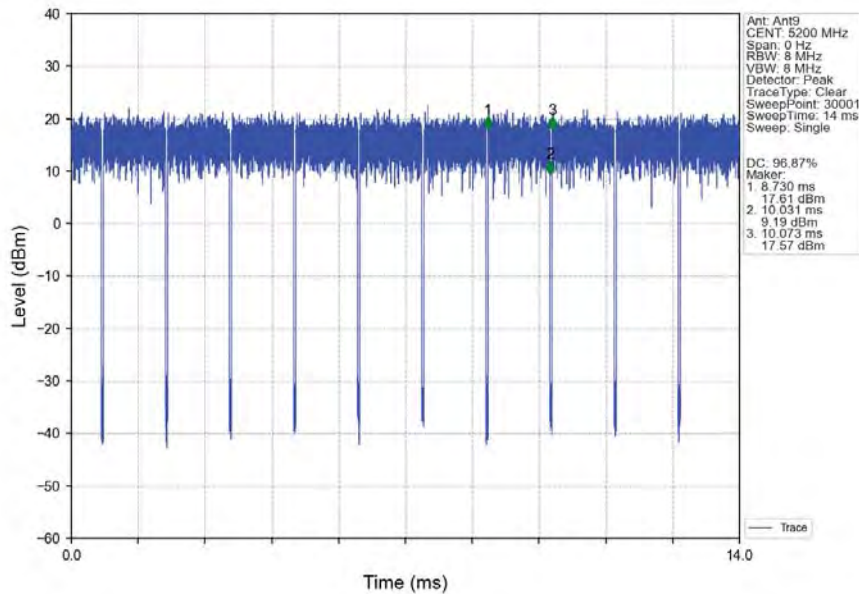
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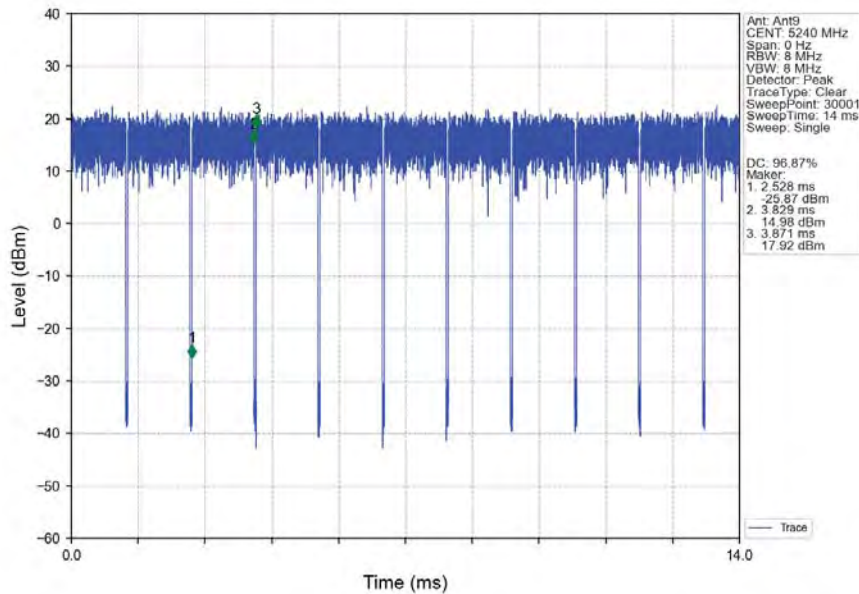
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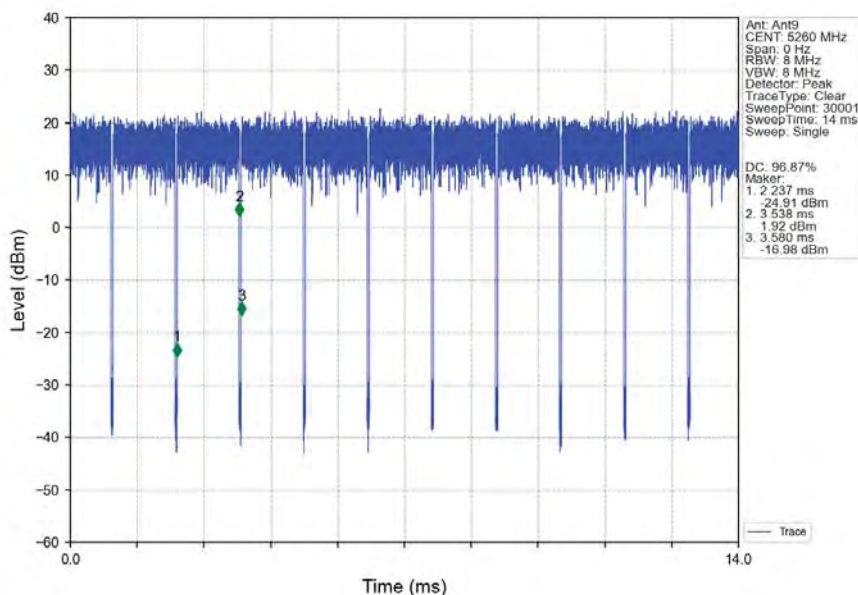
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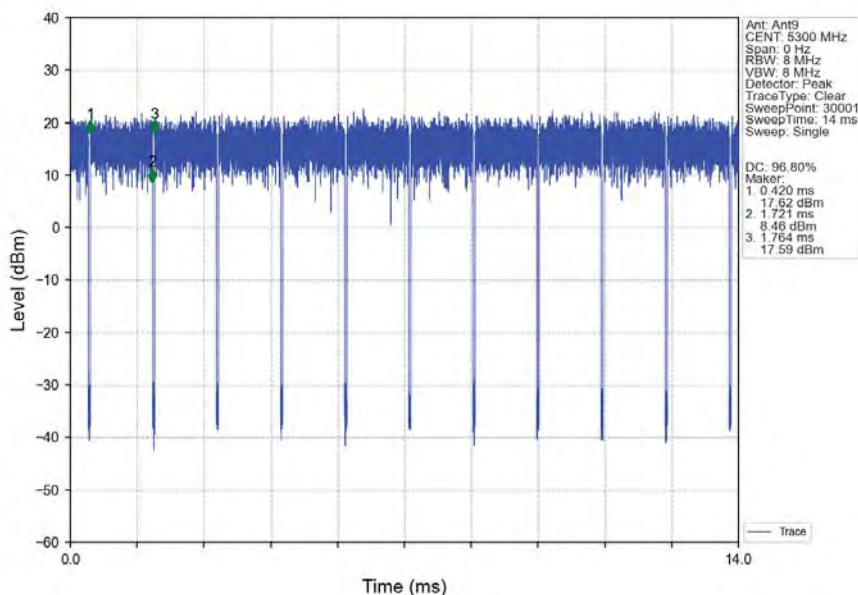
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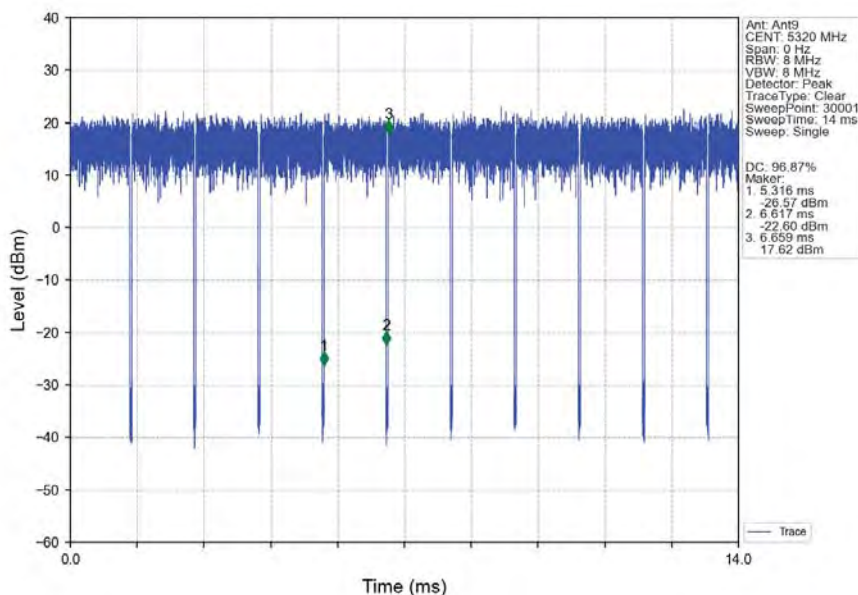
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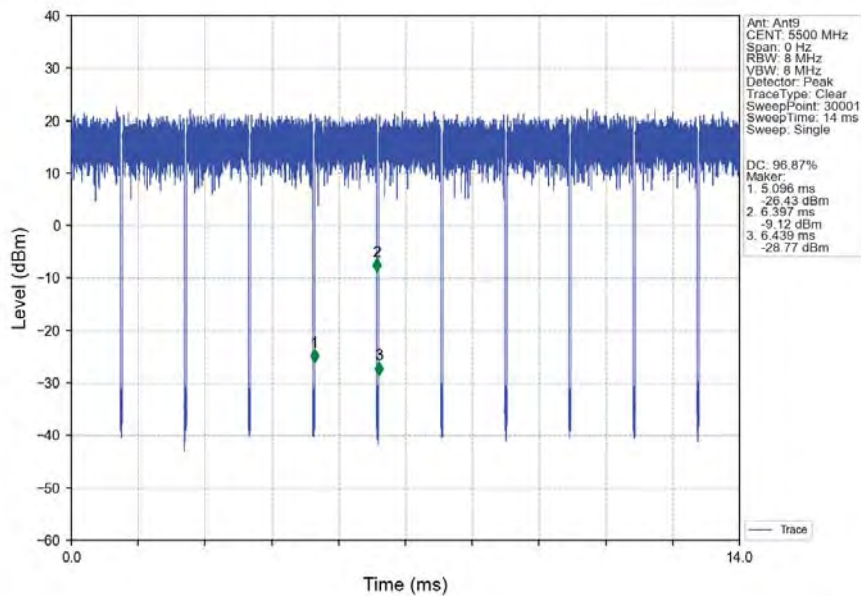
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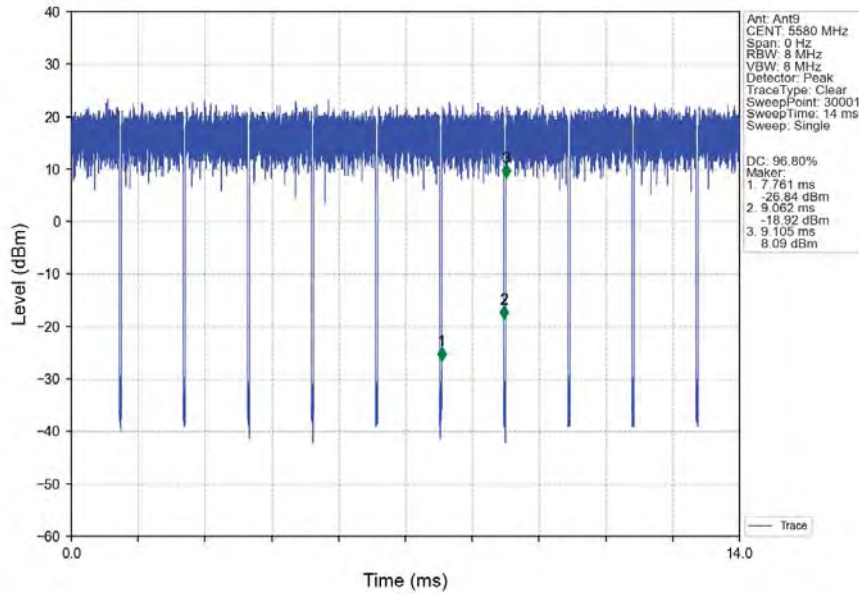
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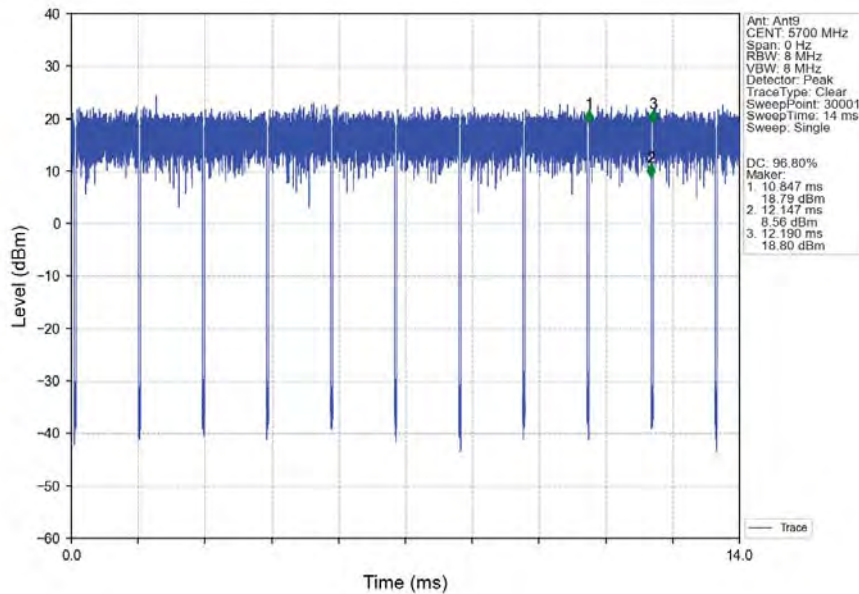
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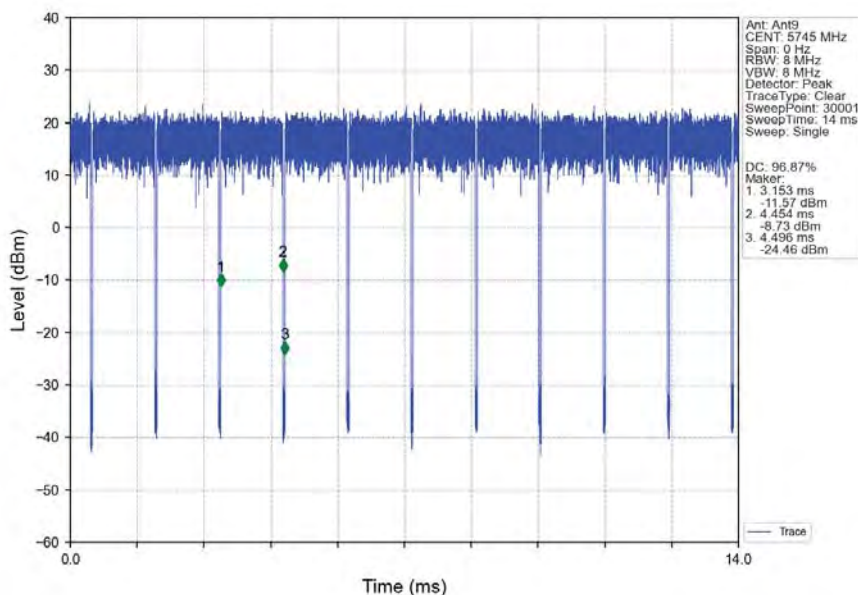
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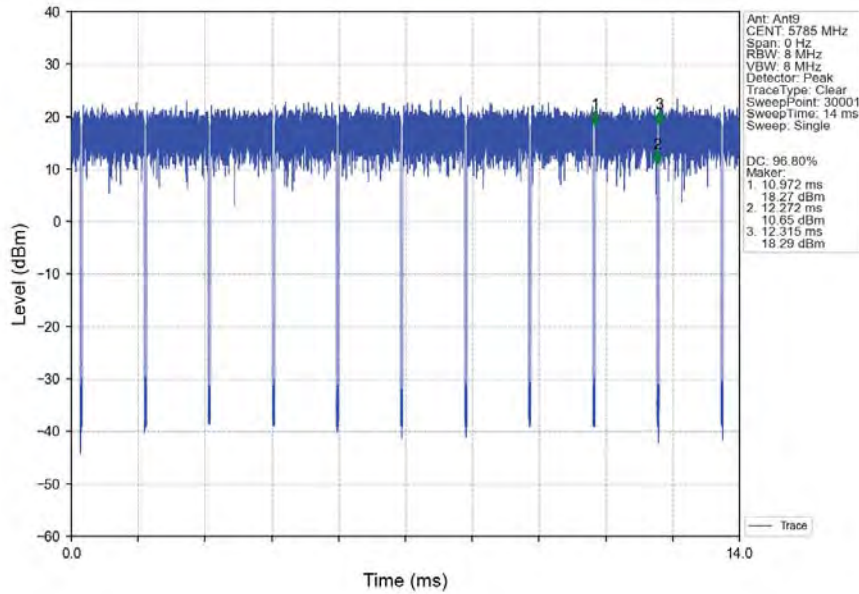
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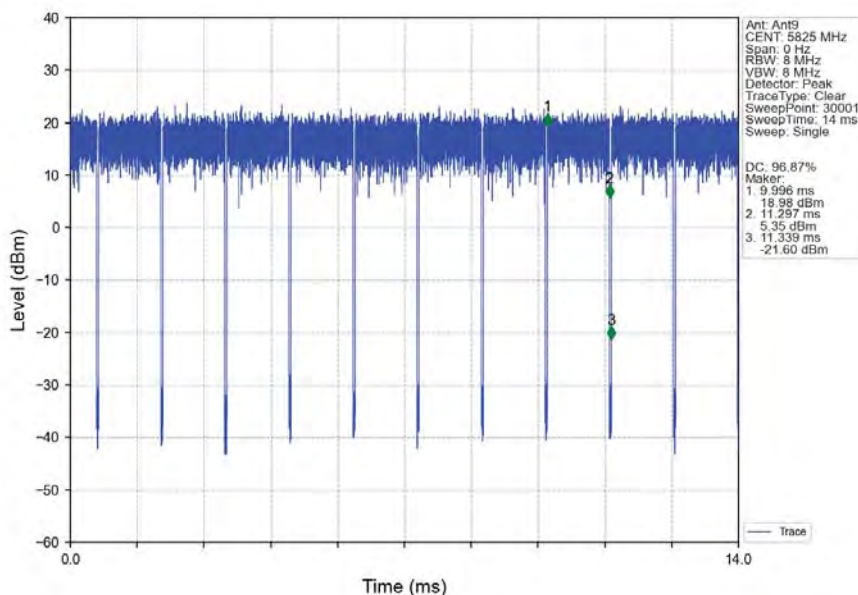
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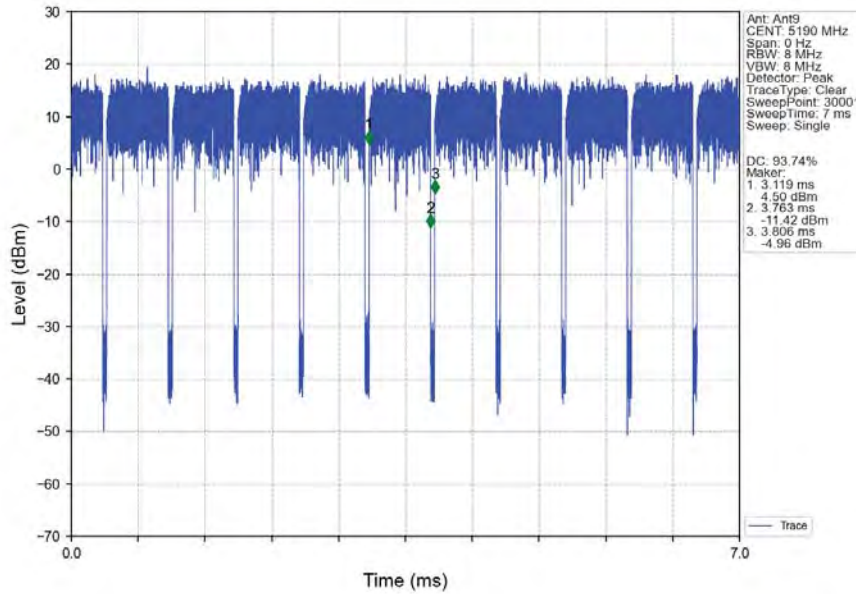
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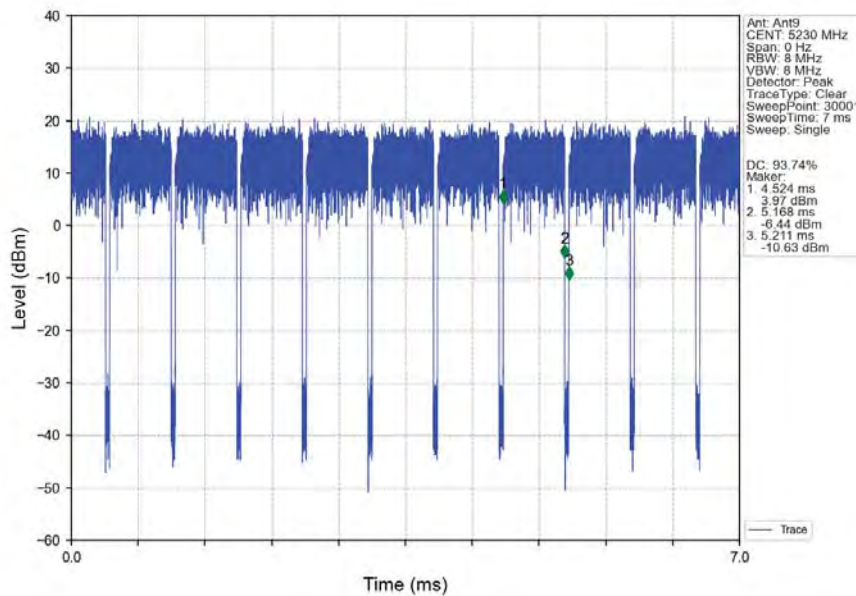
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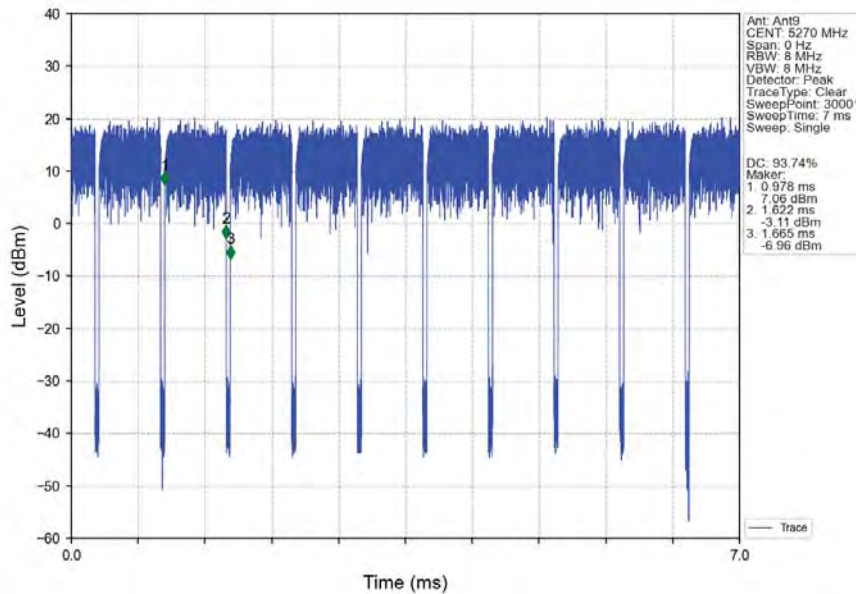
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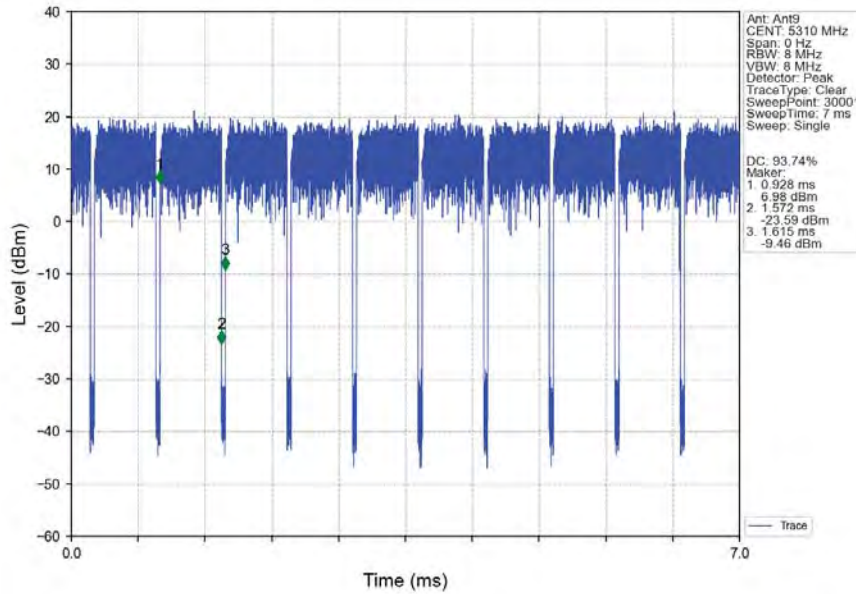
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802.11n(HT40)_LCH_5270MHz_Ant9_NTNV



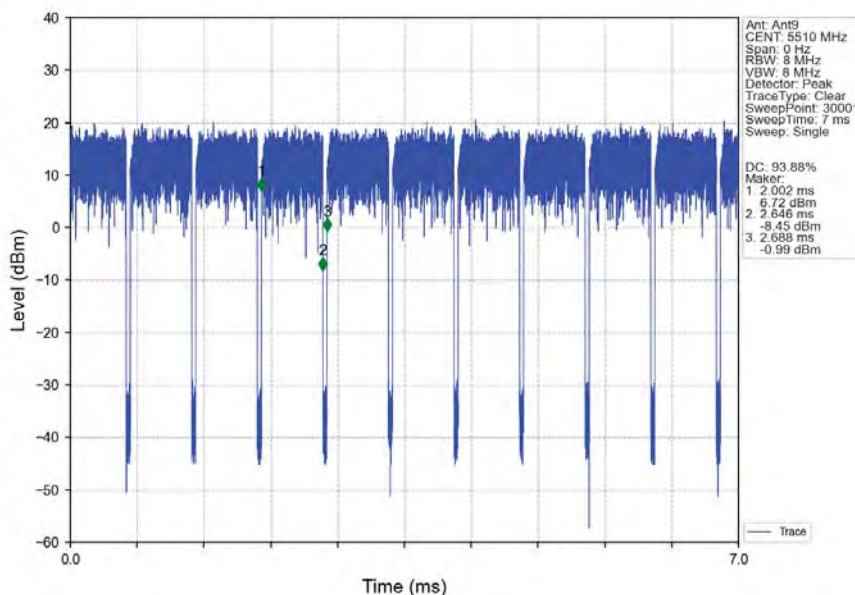
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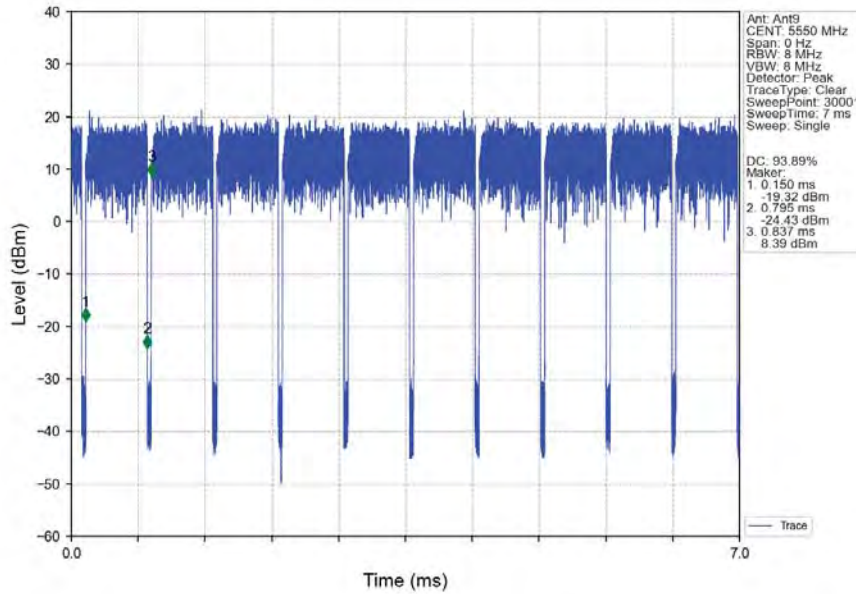
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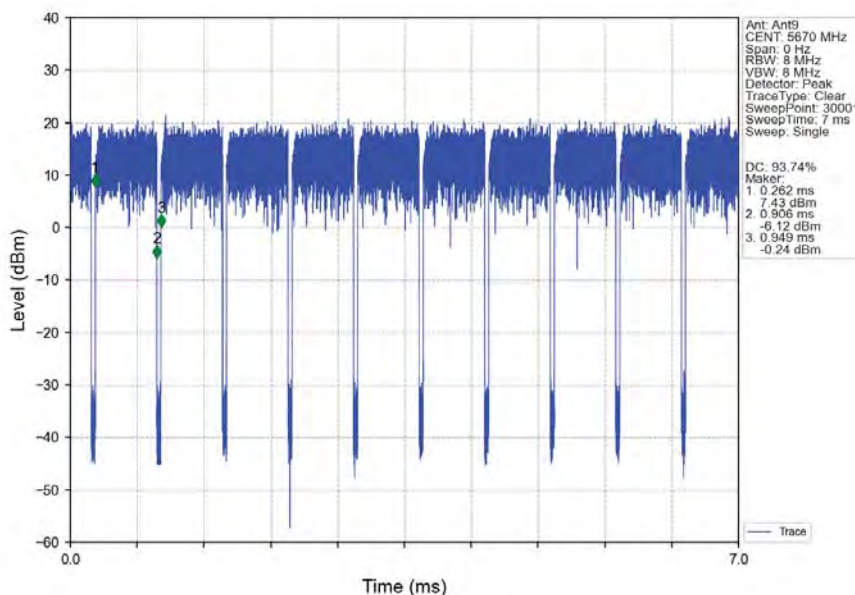
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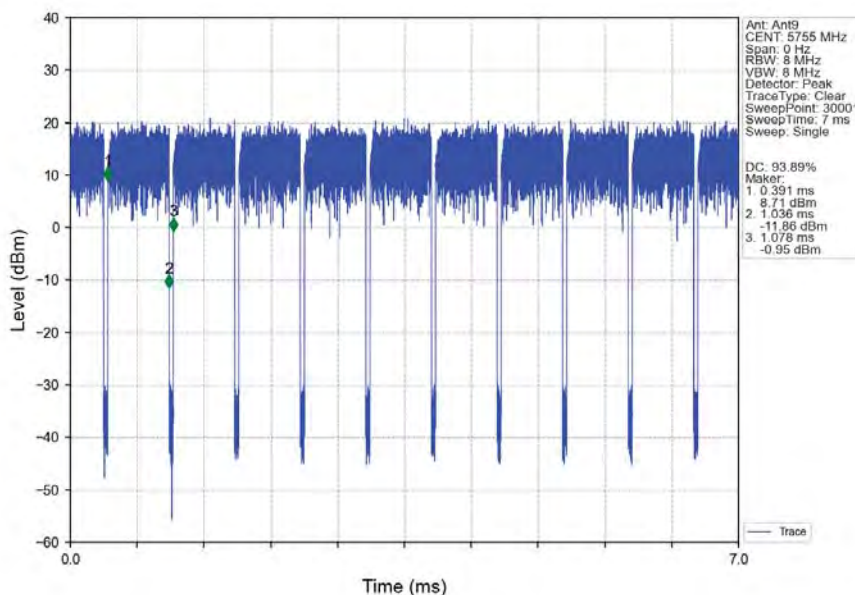
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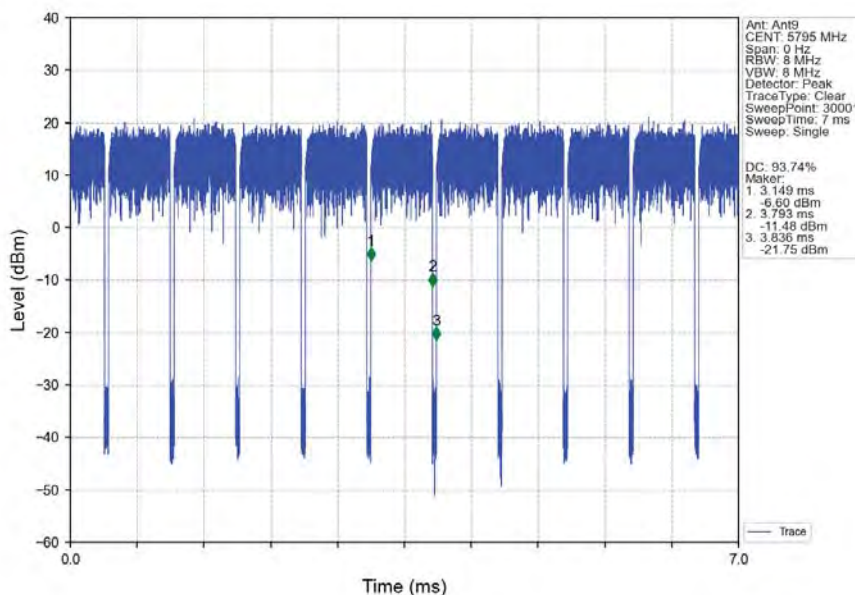
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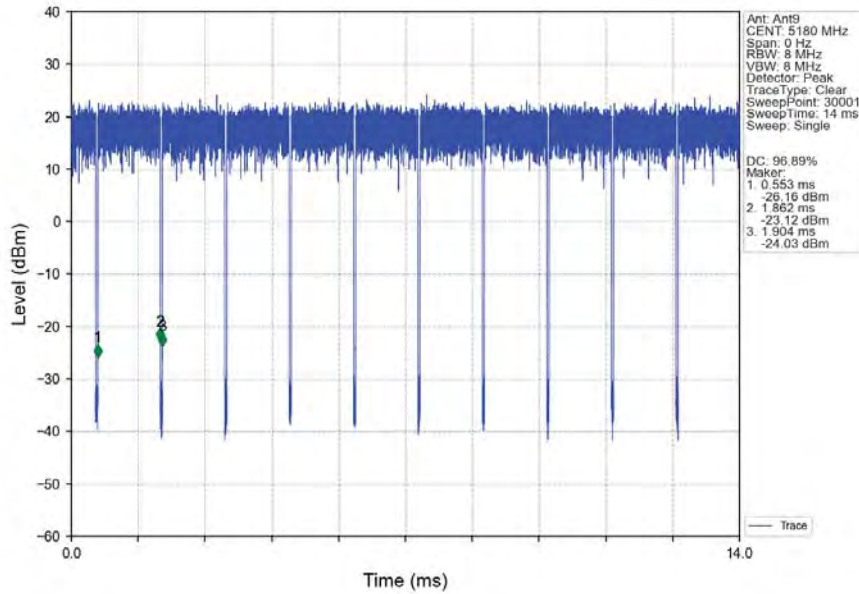
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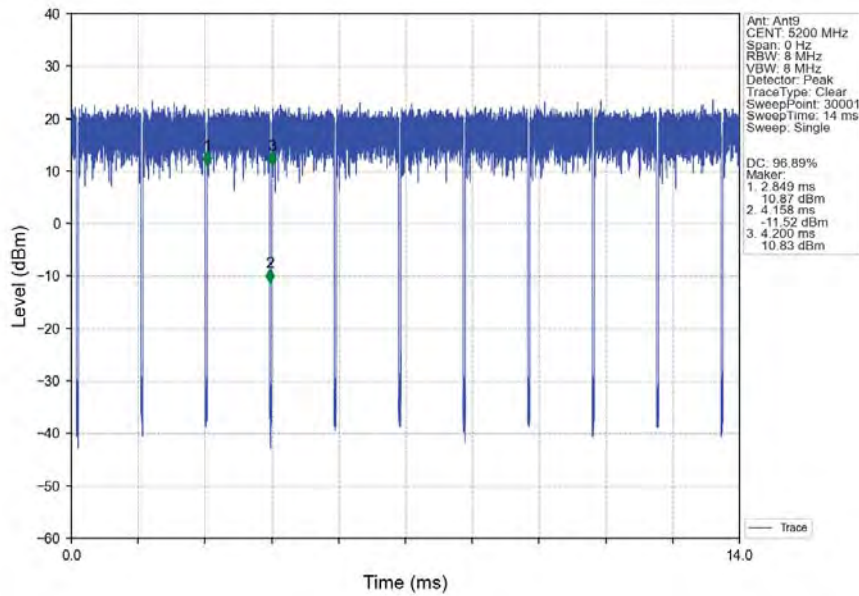
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802.11ac(VHT20)_LCH_5180MHz_Ant9_NTNV



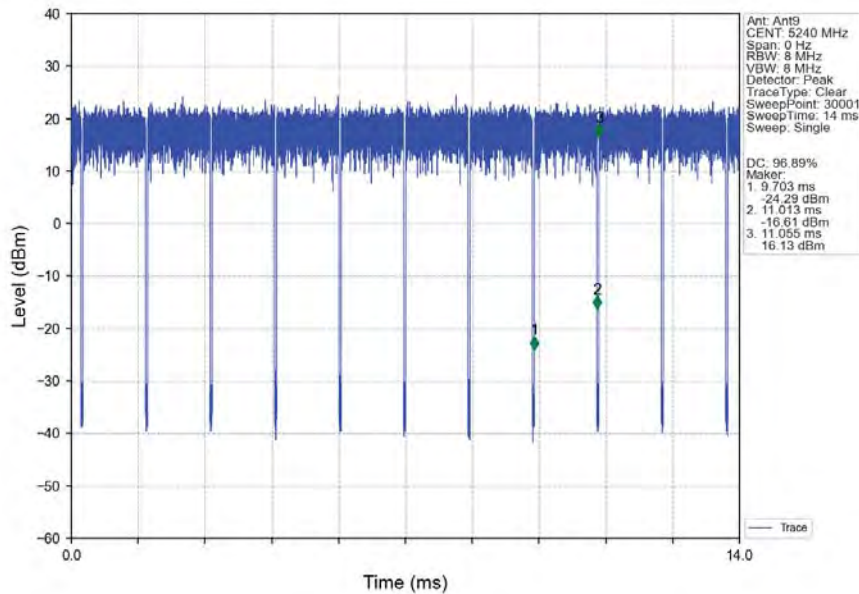
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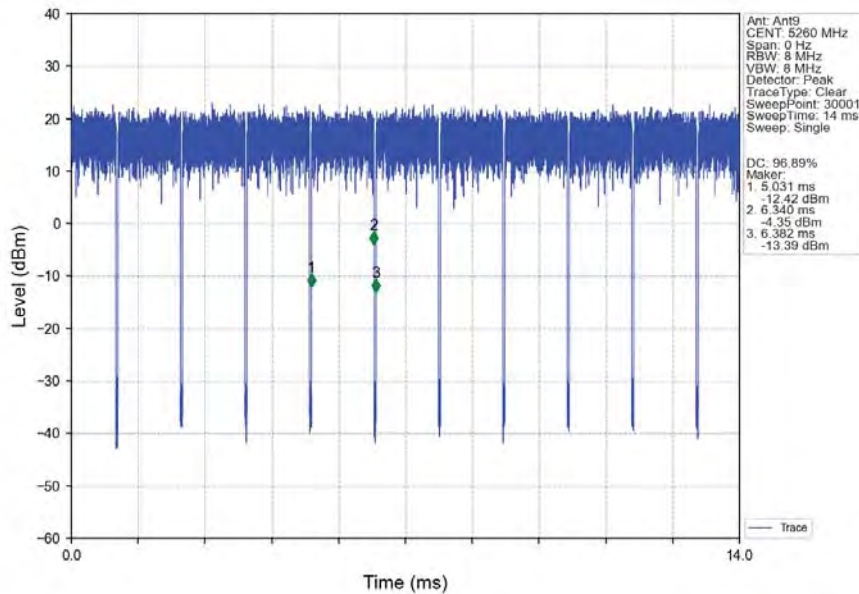
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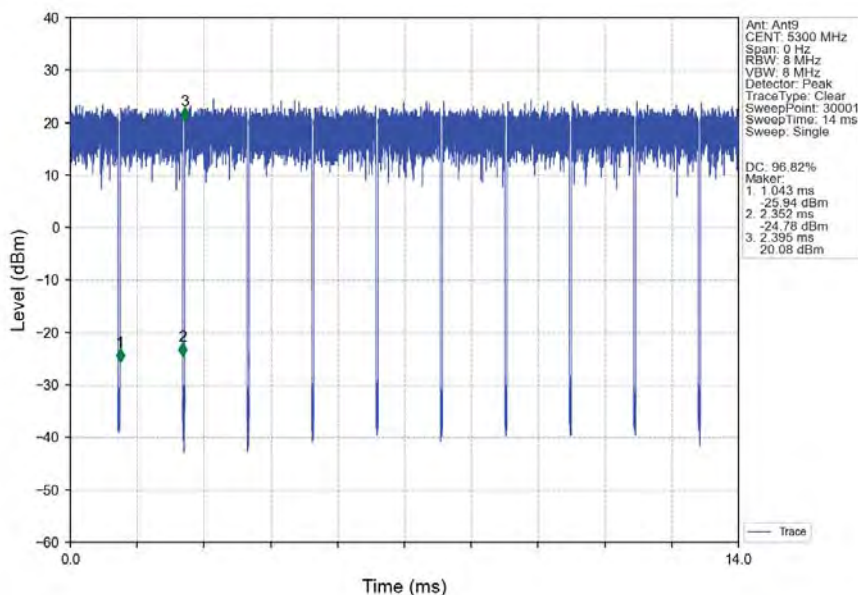
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802.11ac(VHT20)_LCH_5260MHz_Ant9_NTNV



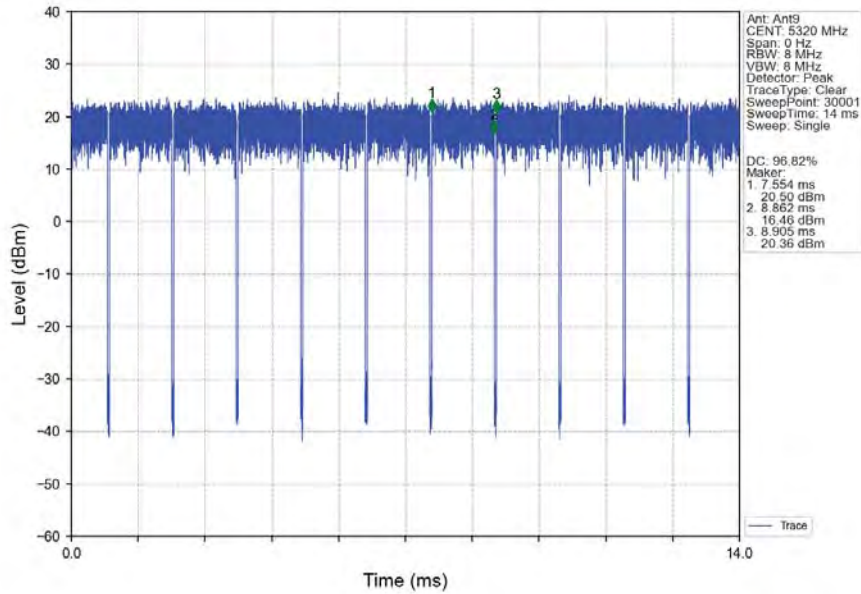
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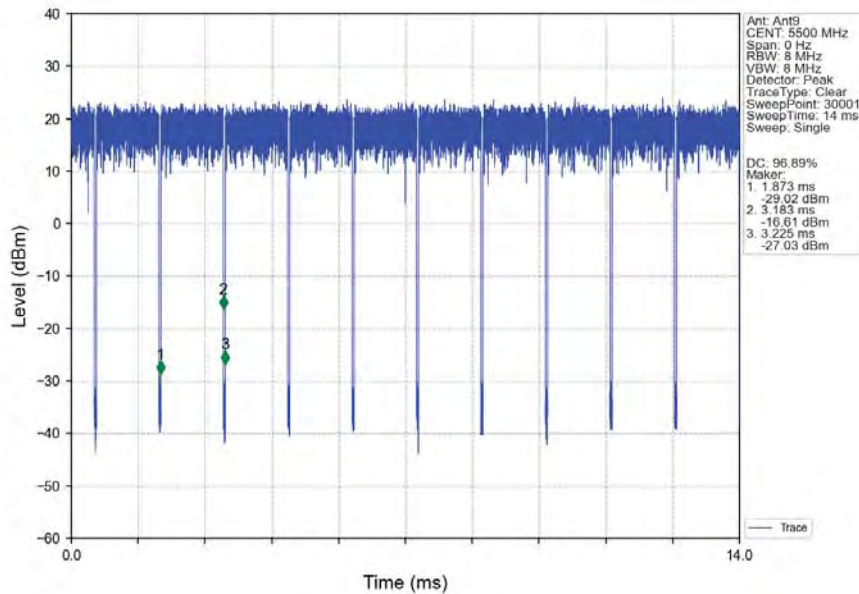
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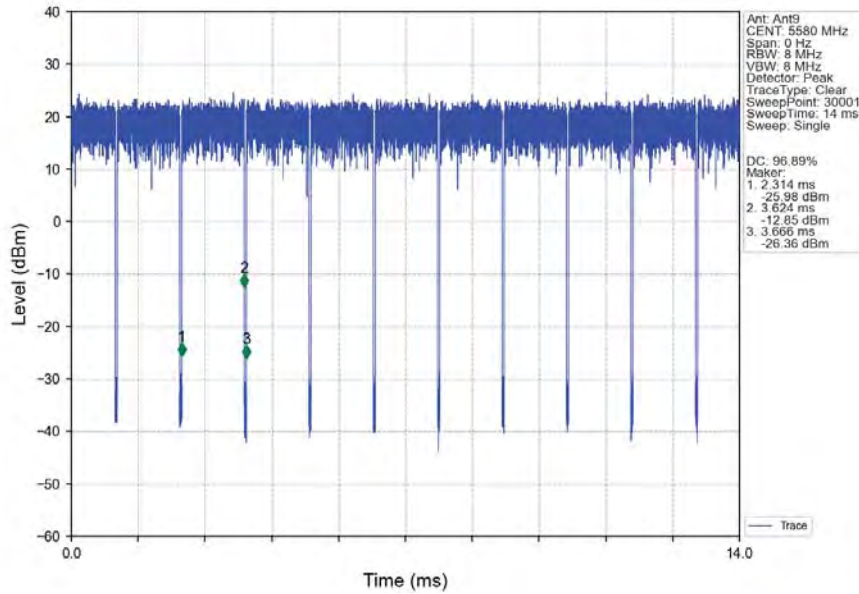
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802.11ac(VHT20)_LCH_5500MHz_Ant9_NTNV



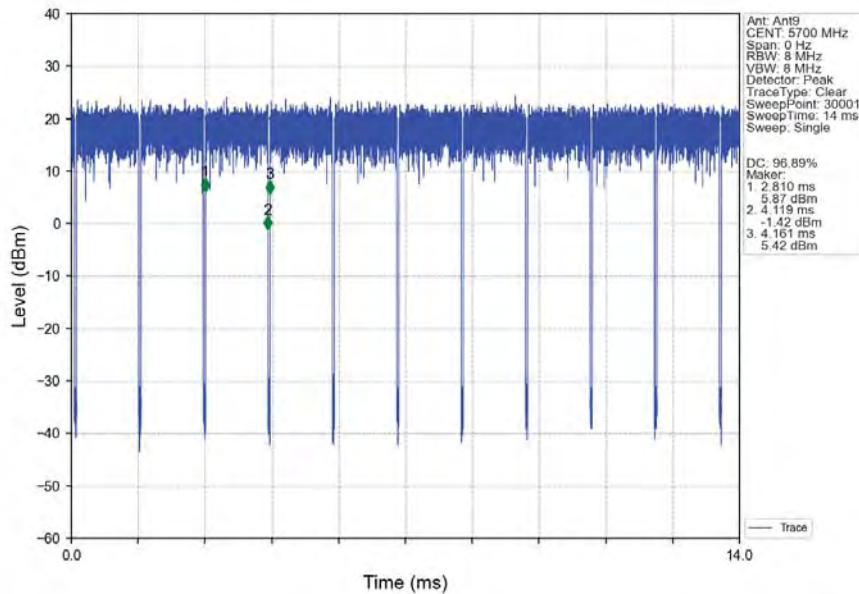
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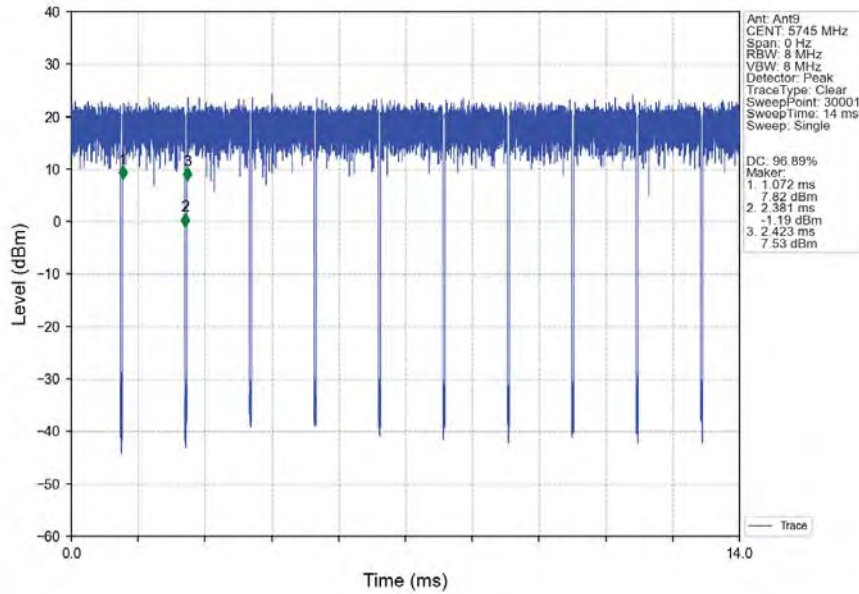
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802.11ac(VHT20)_HCH_5700MHz_Ant9_NTNV



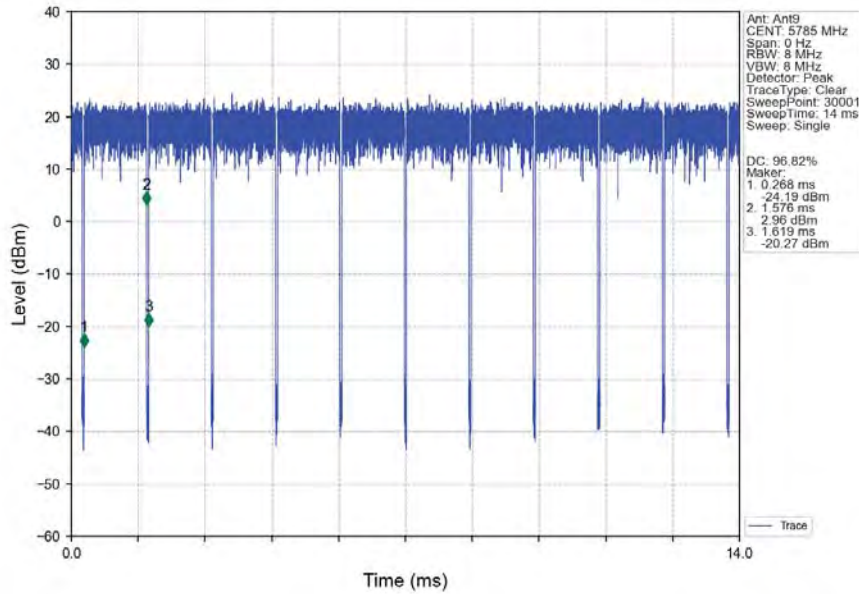
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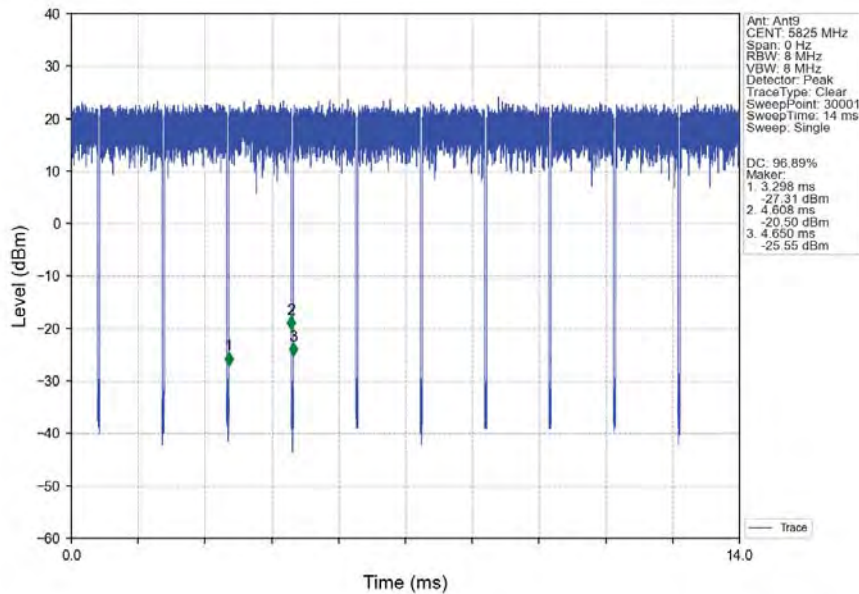
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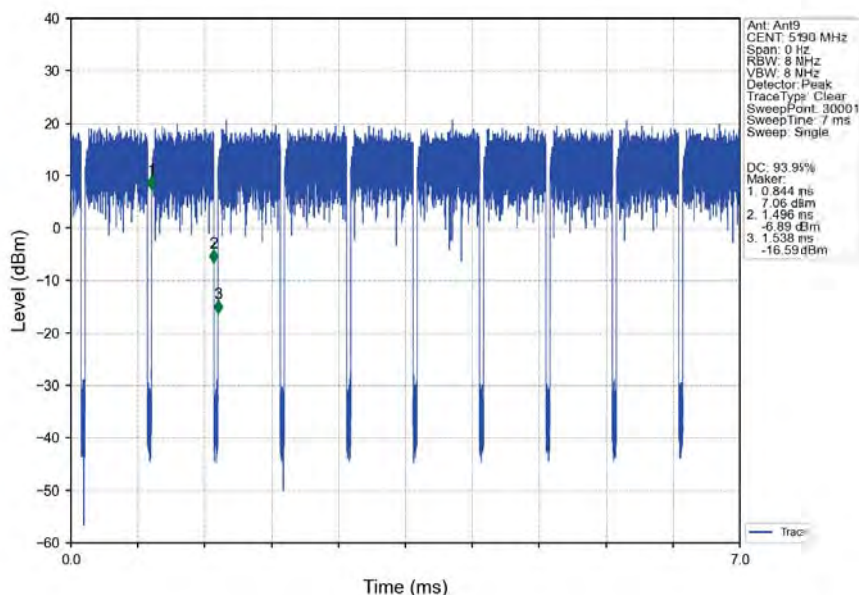
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802.11ac(VHT20)_HCH_5825MHz_Ant9_NTNV



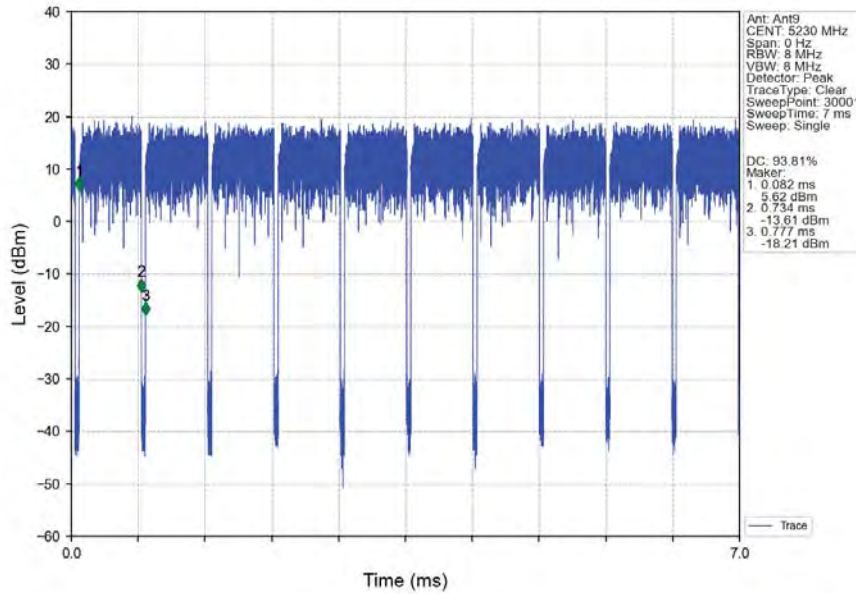
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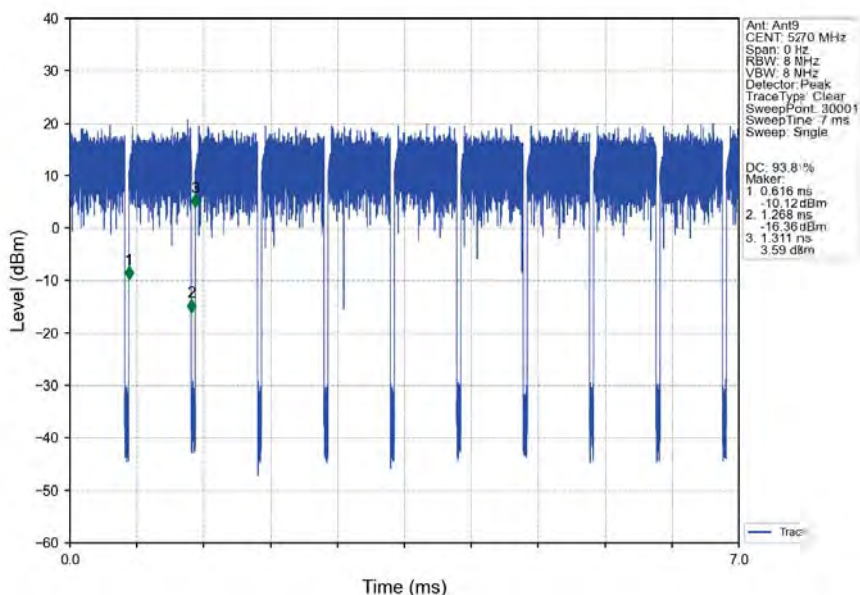
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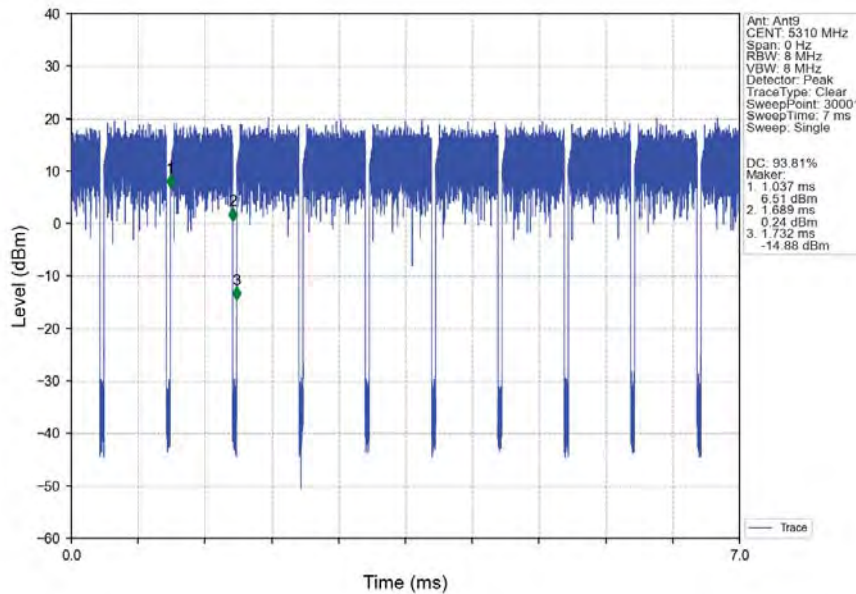
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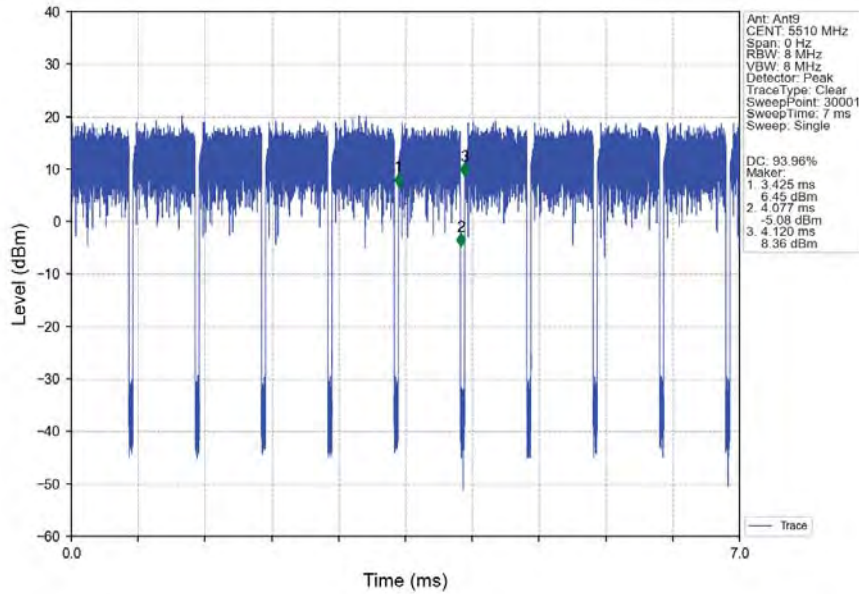
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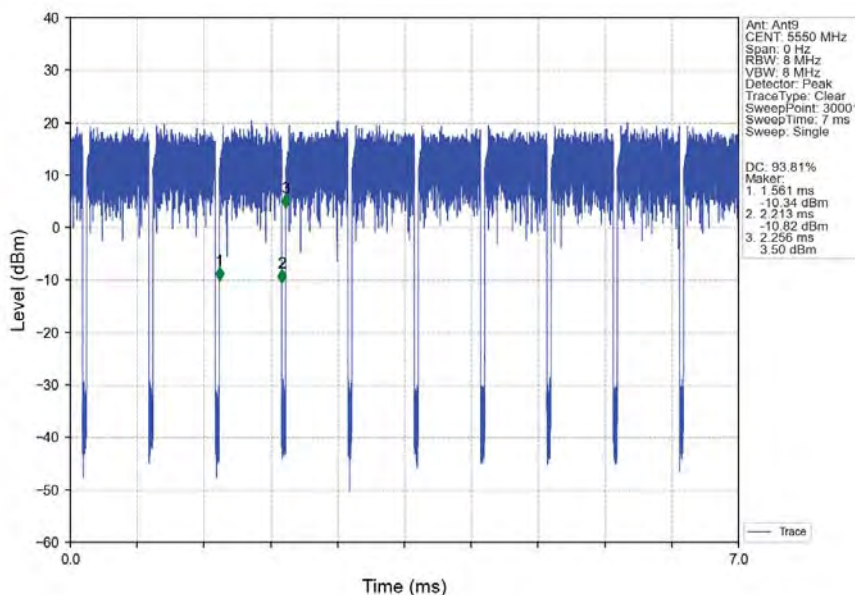
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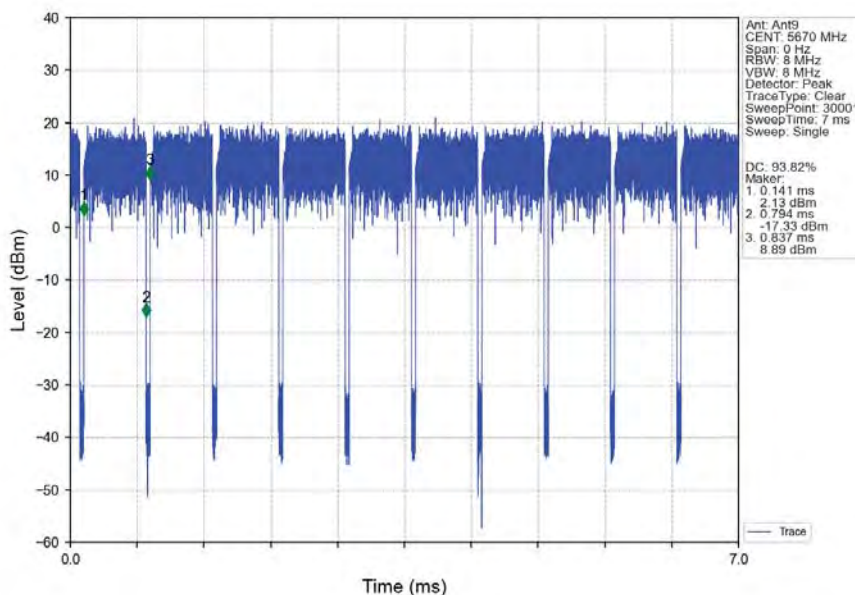
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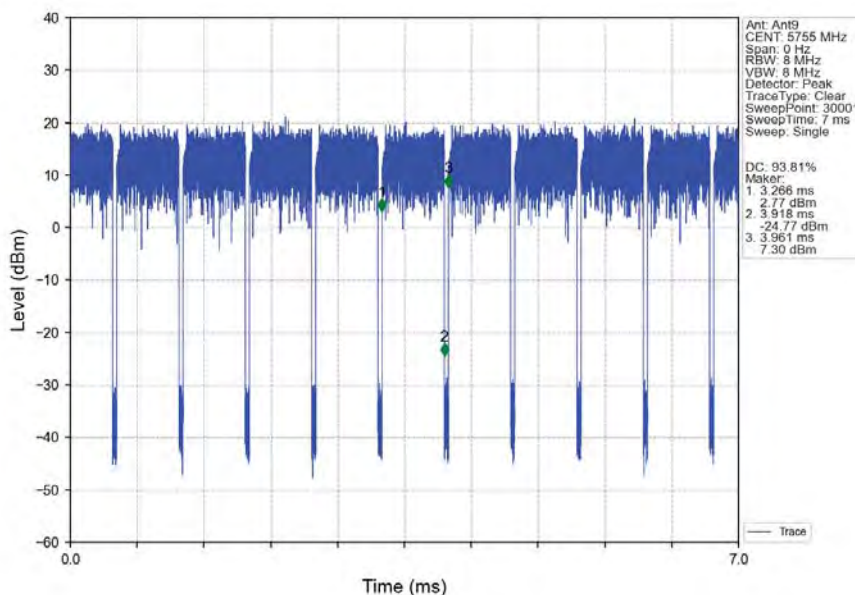
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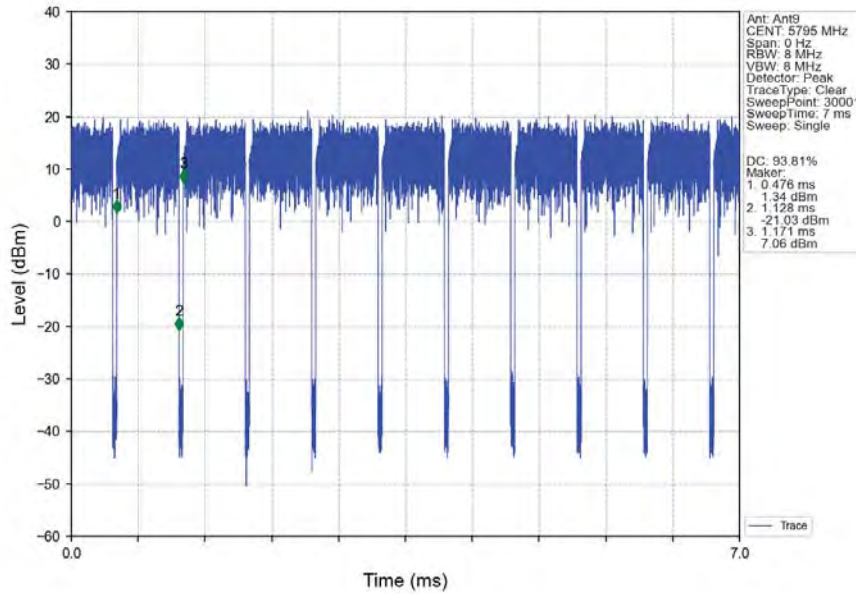
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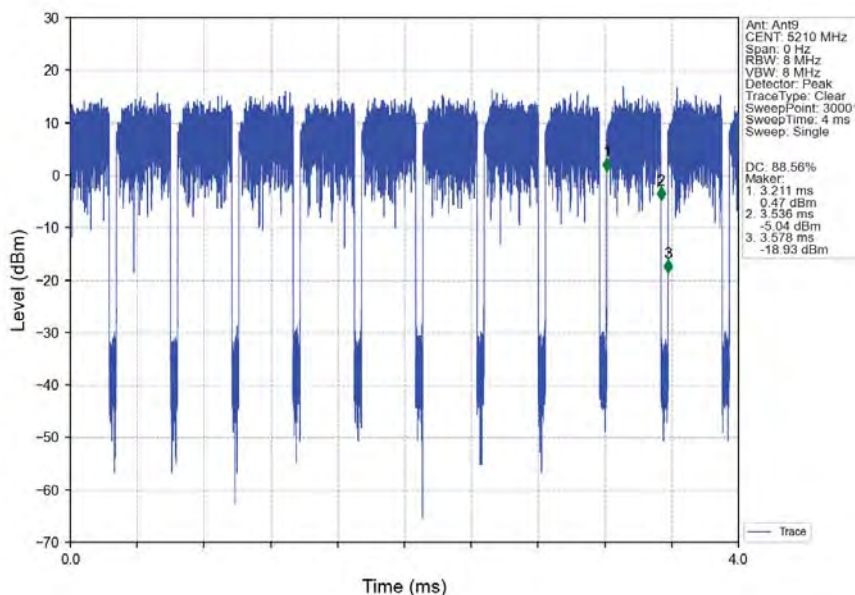
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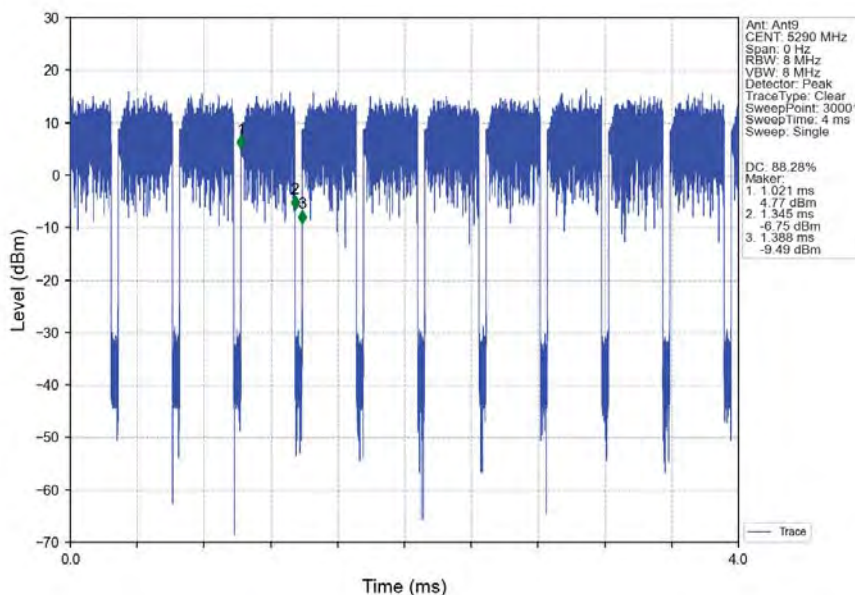
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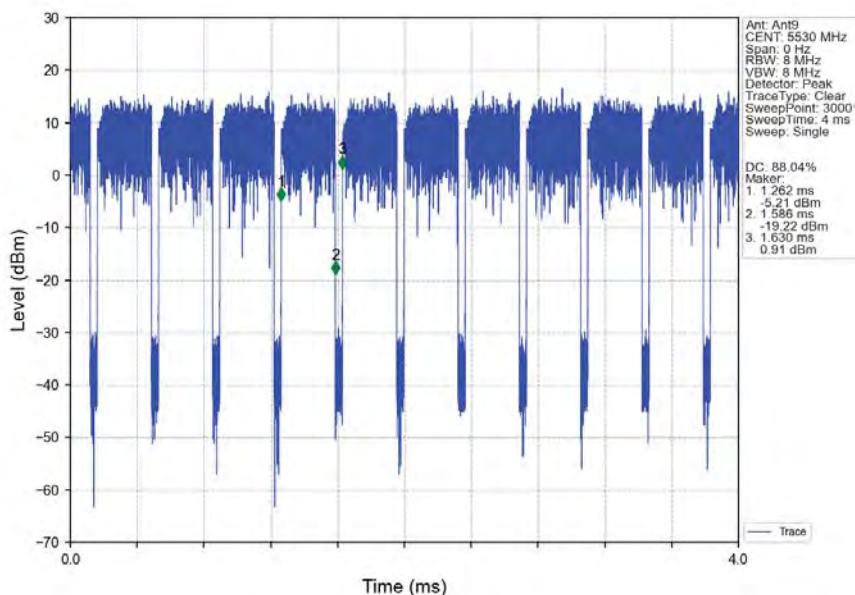
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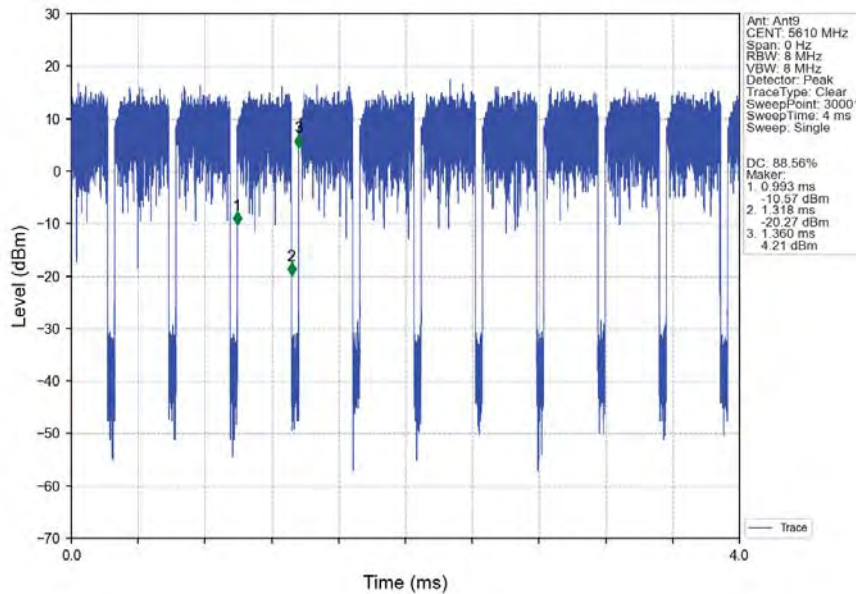
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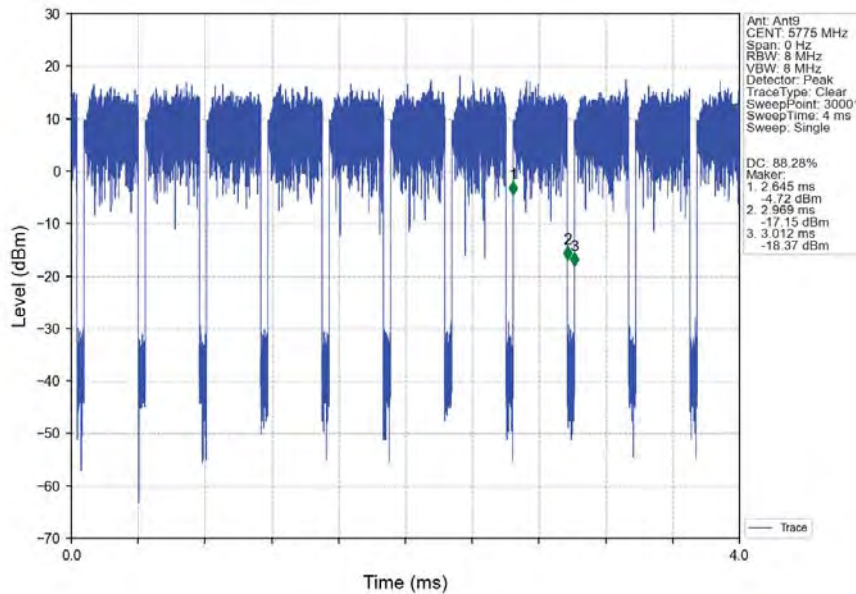
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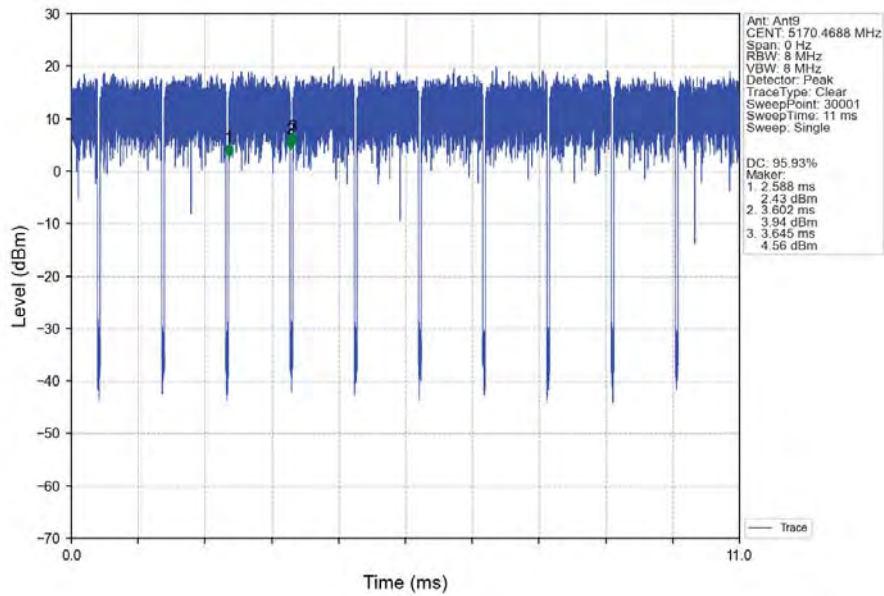
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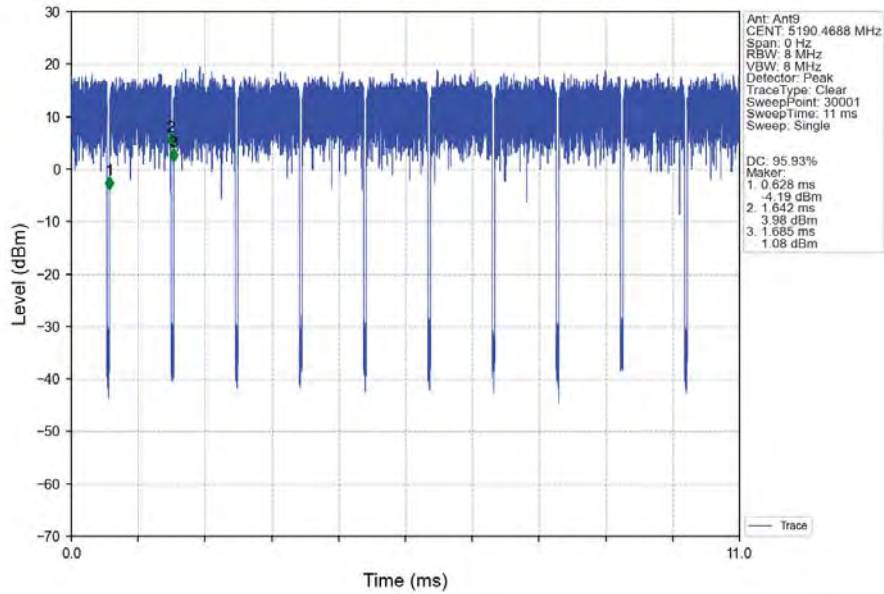
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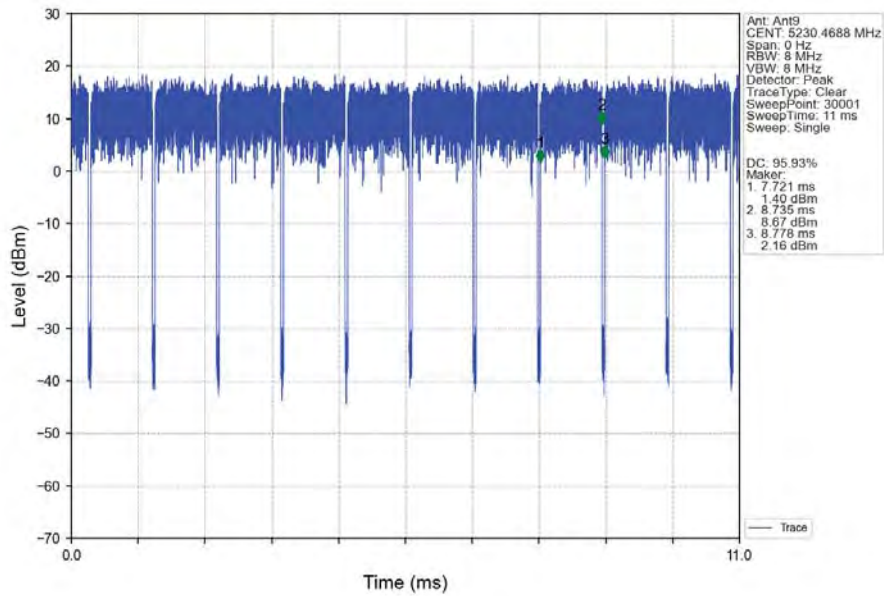
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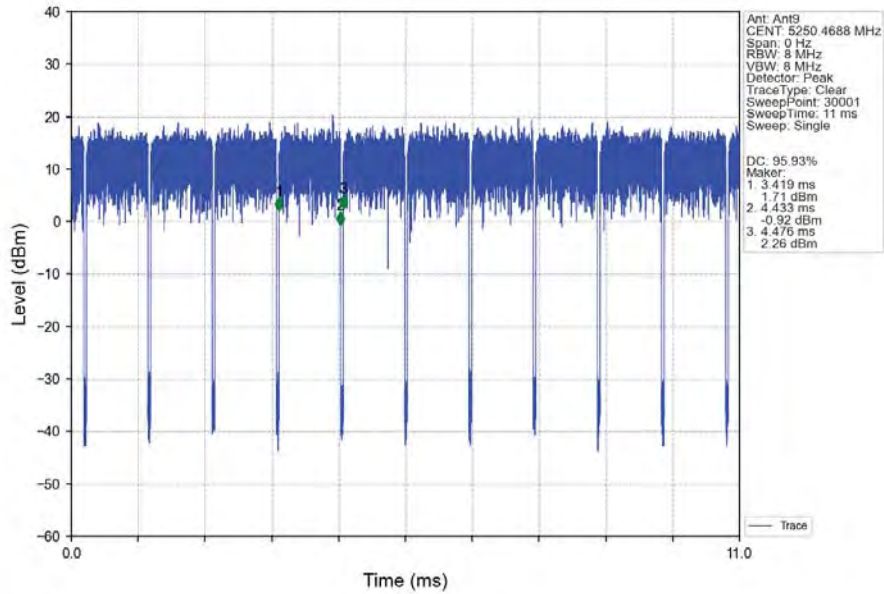
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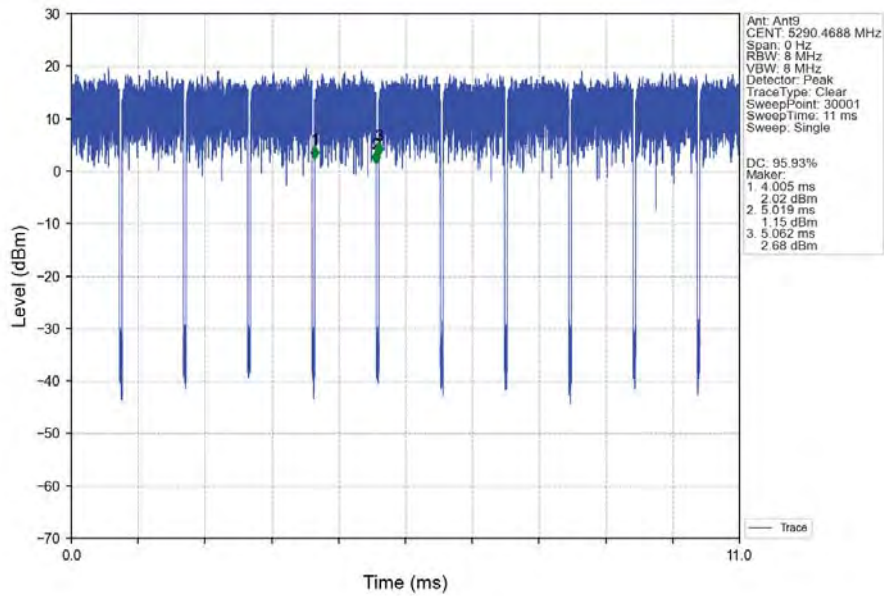
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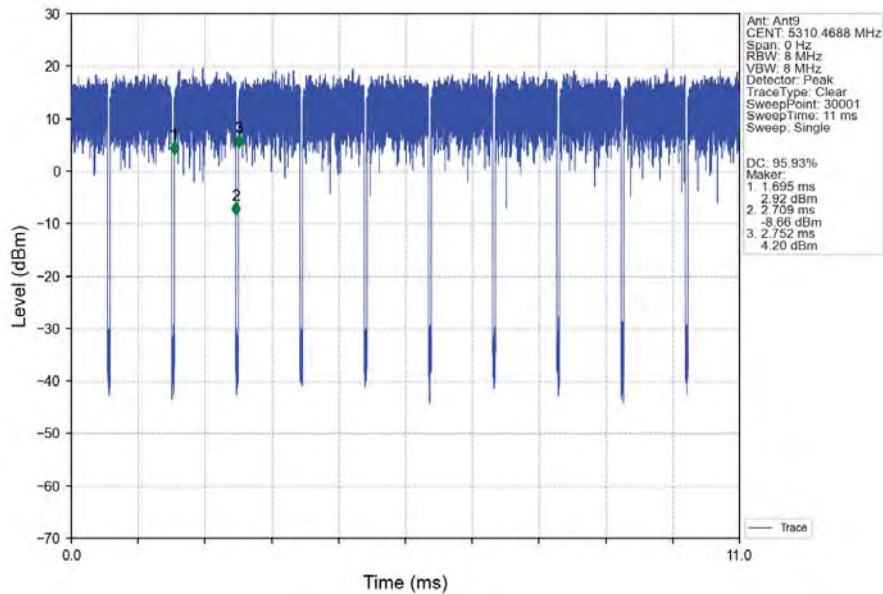
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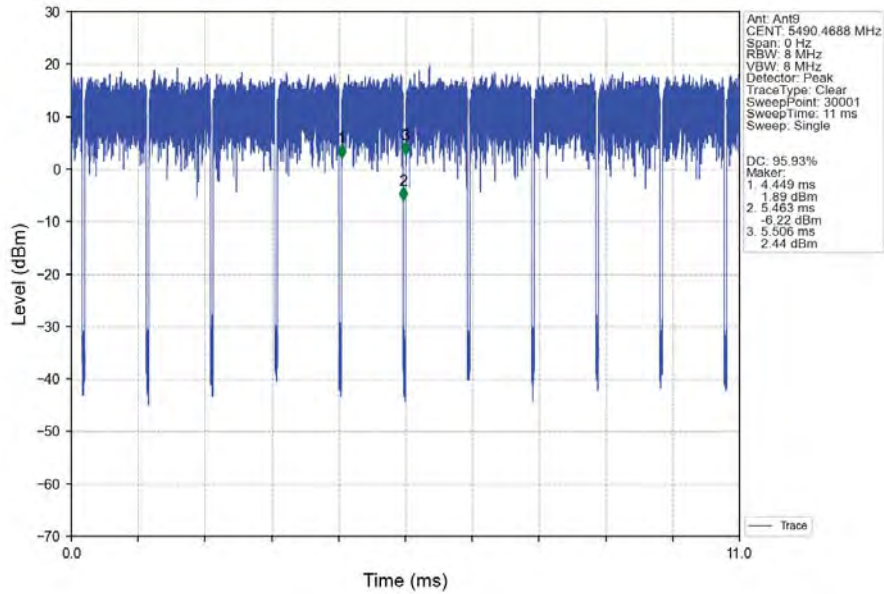
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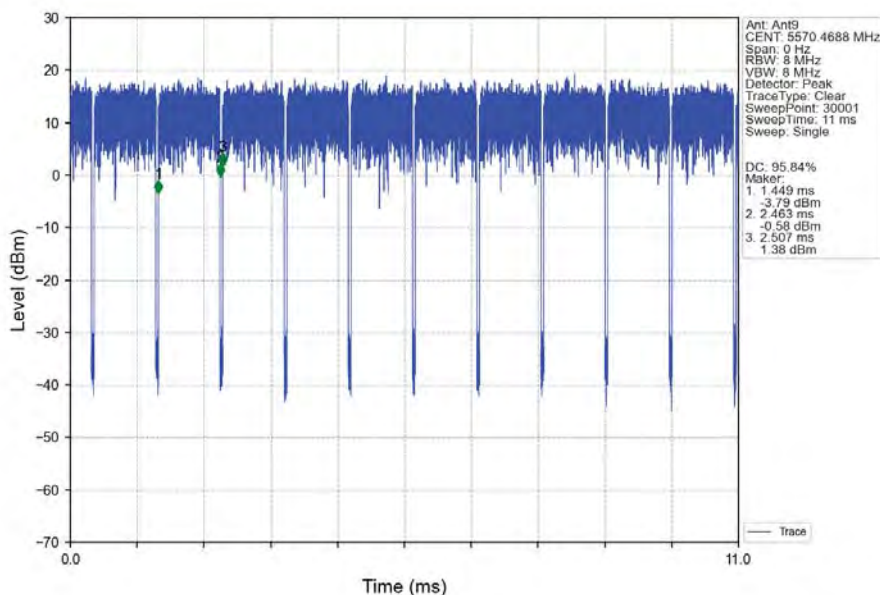
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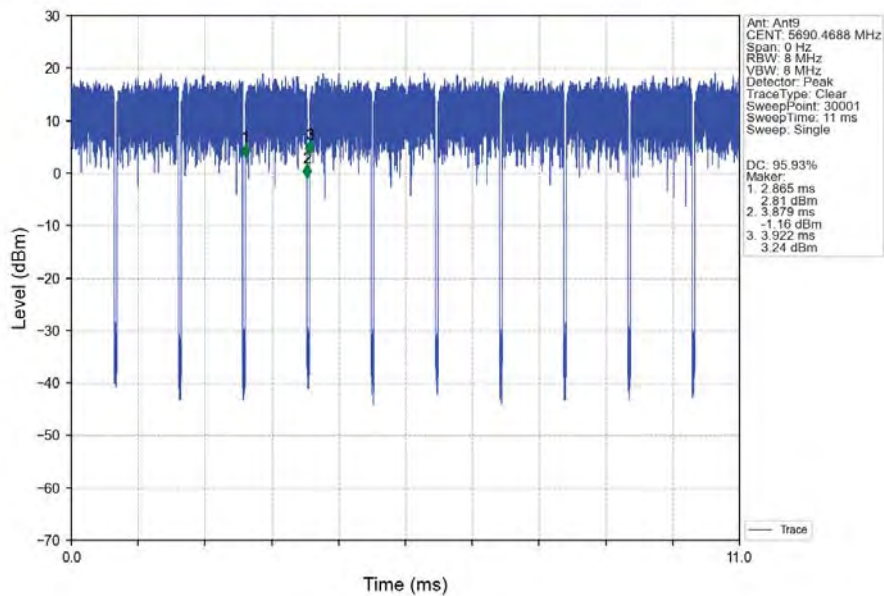
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Shenzhen Branch Testing & Calibration Laboratory

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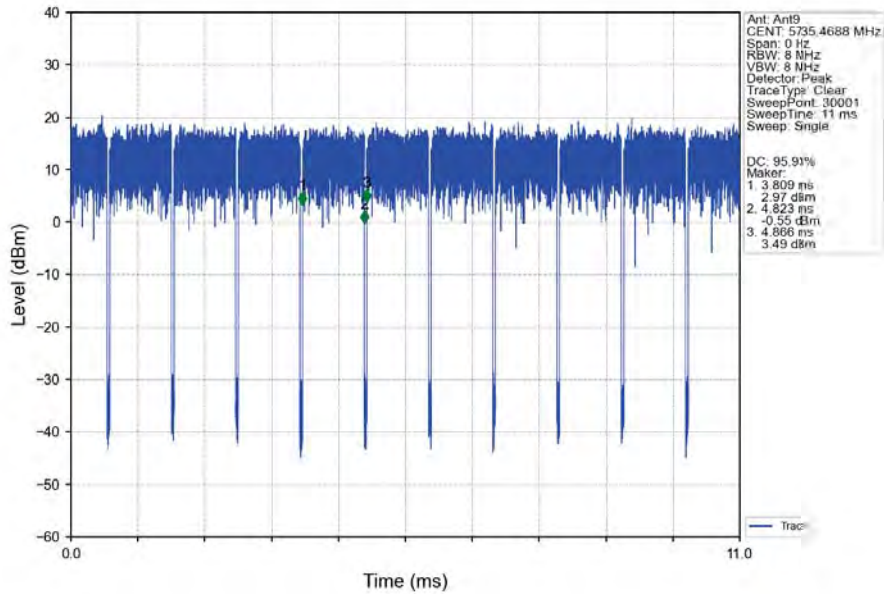
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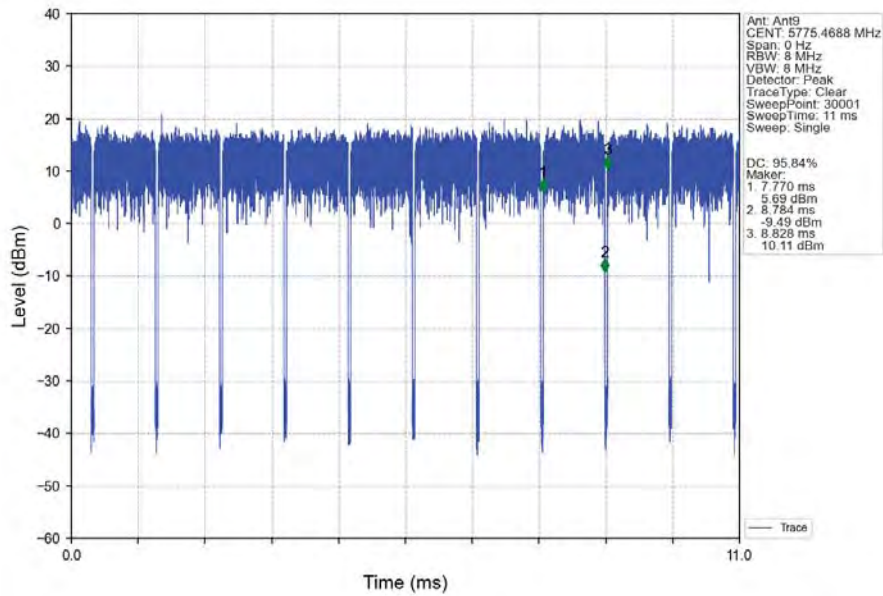
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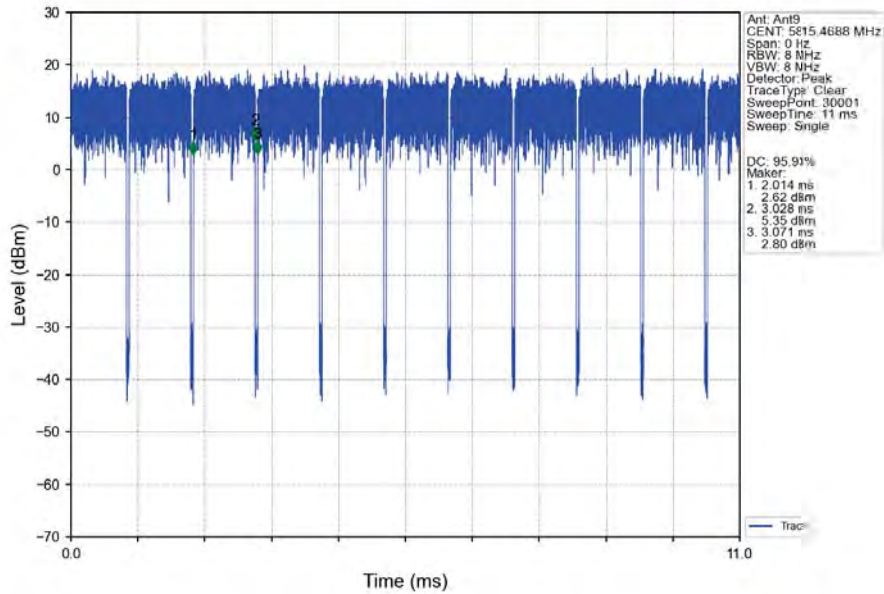
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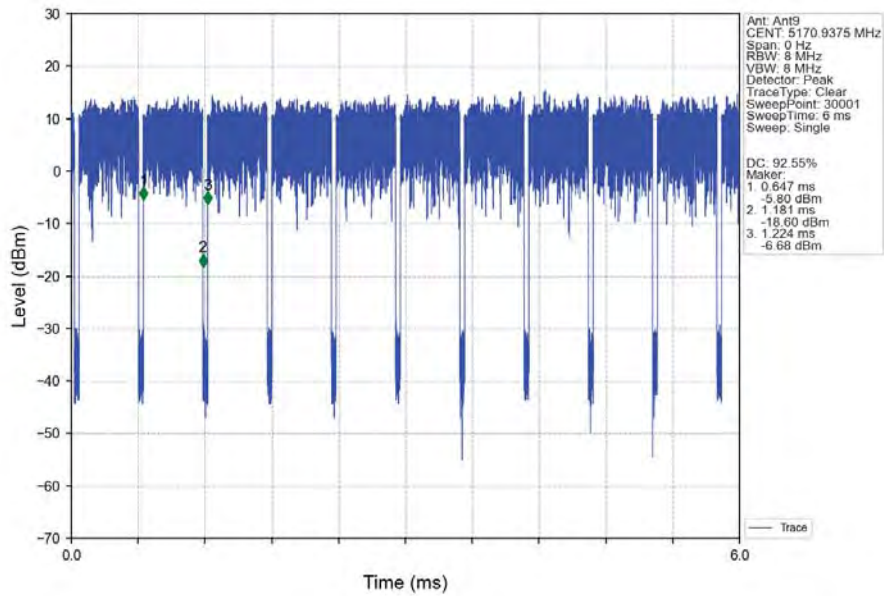
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802.11ax(HEW20)_HCH_5825MHz_SU_/_Ant9_NTNV



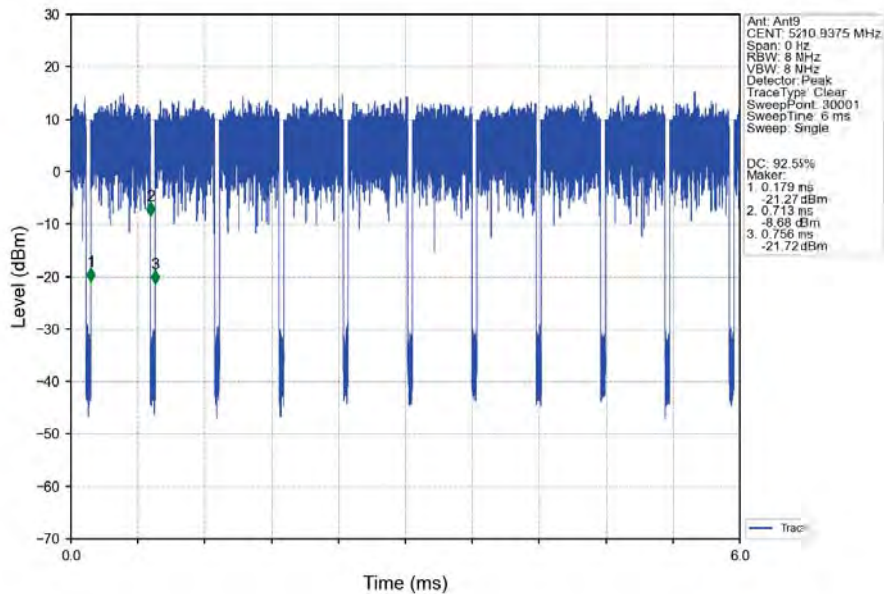
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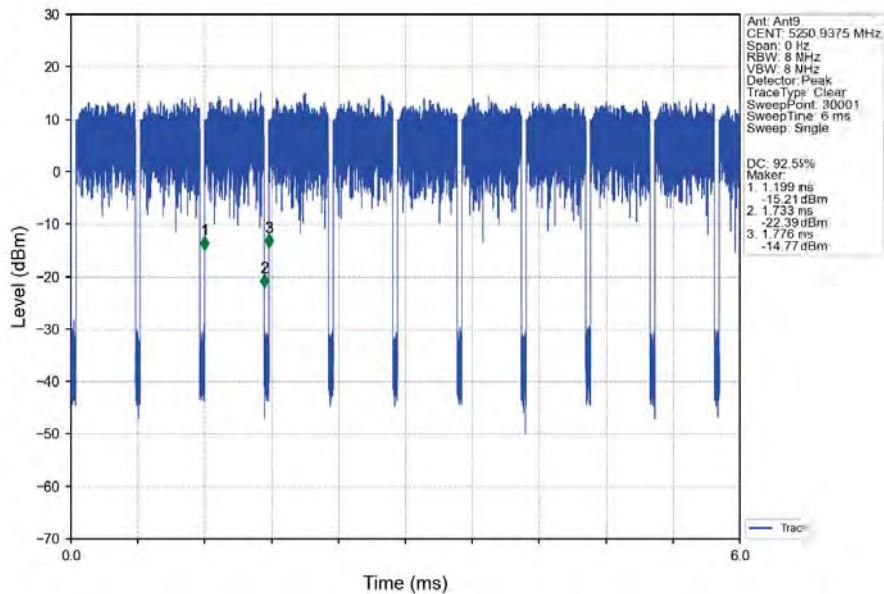
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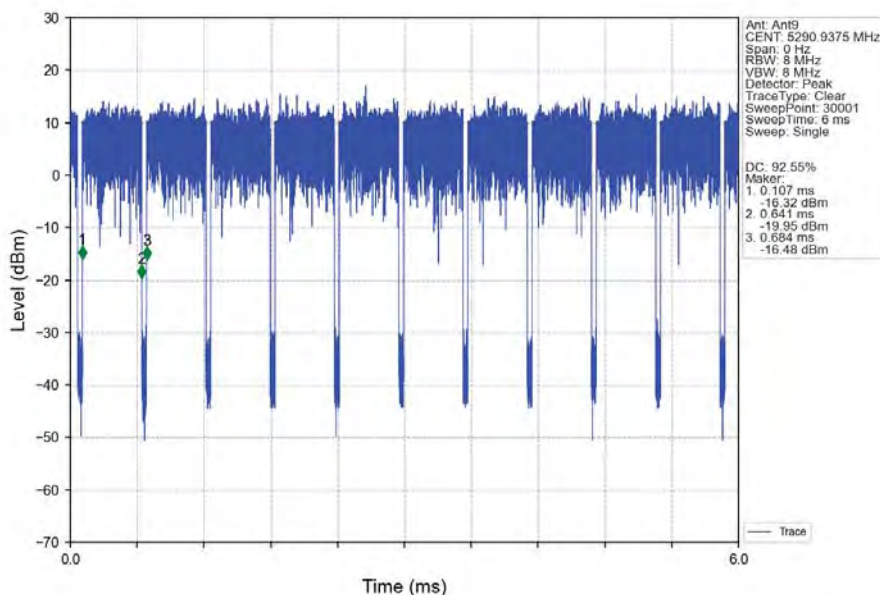
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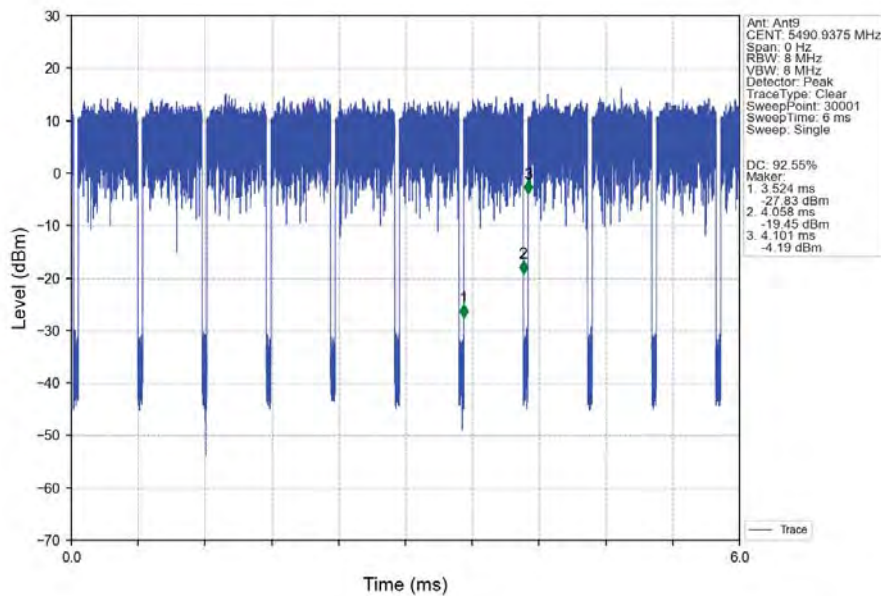
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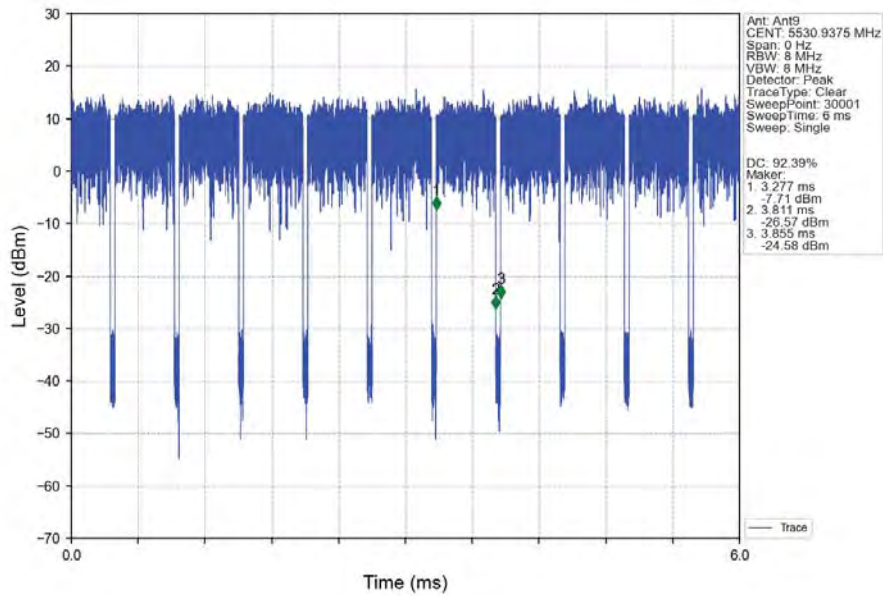
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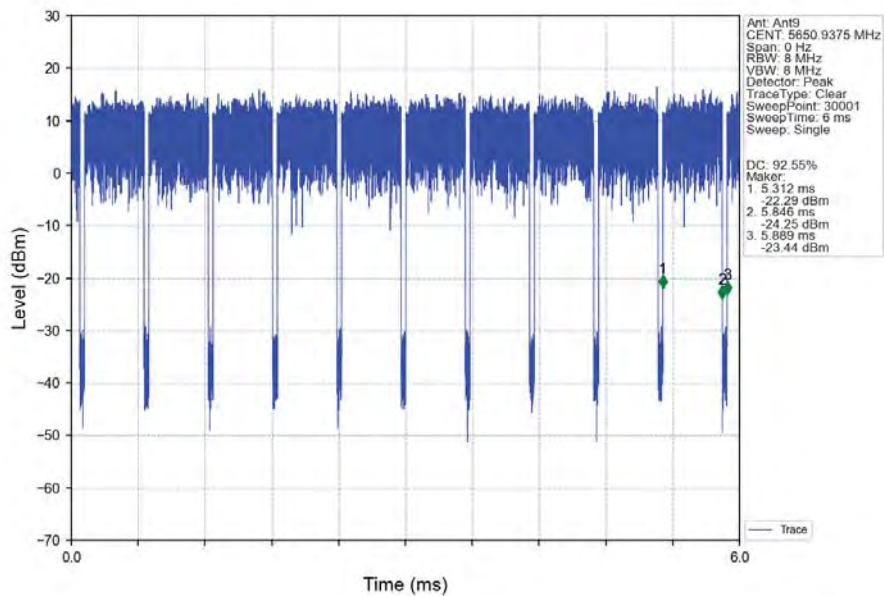
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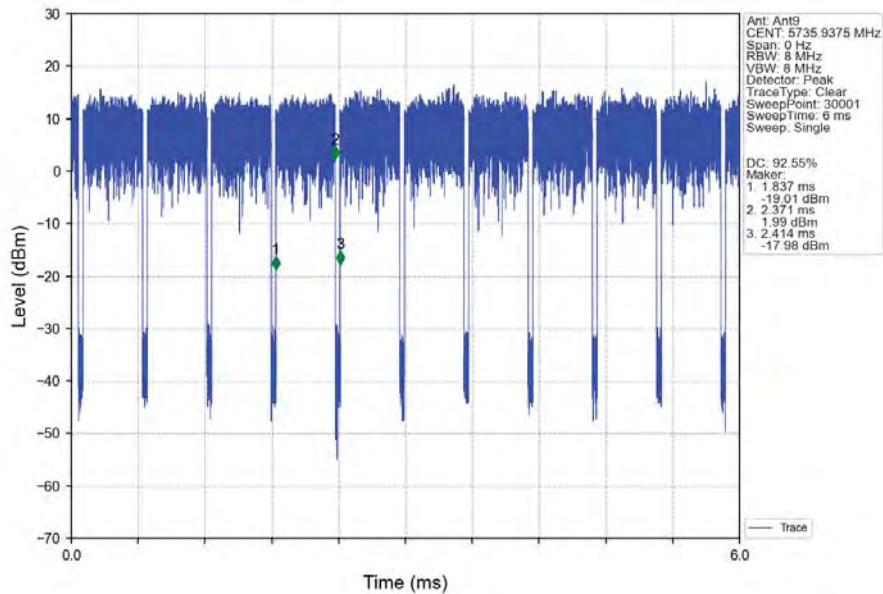
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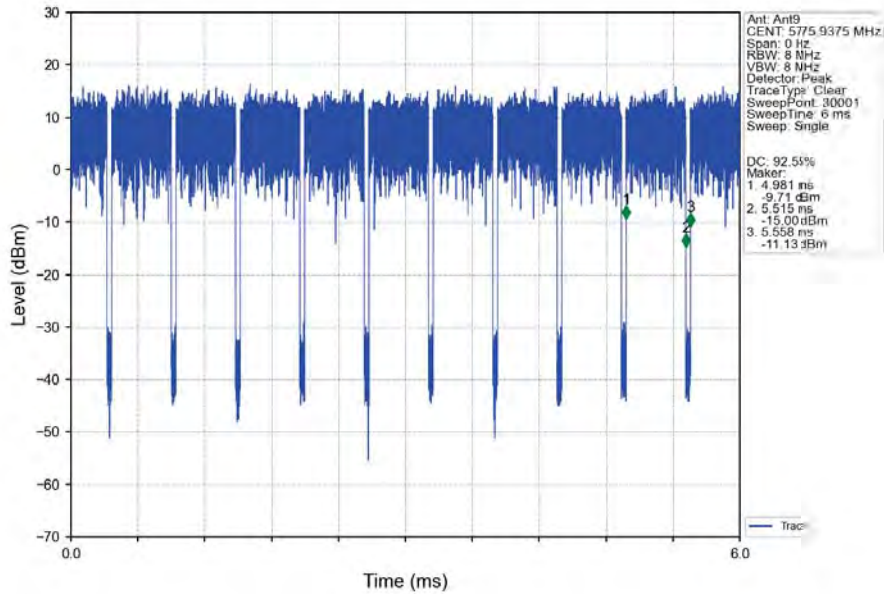
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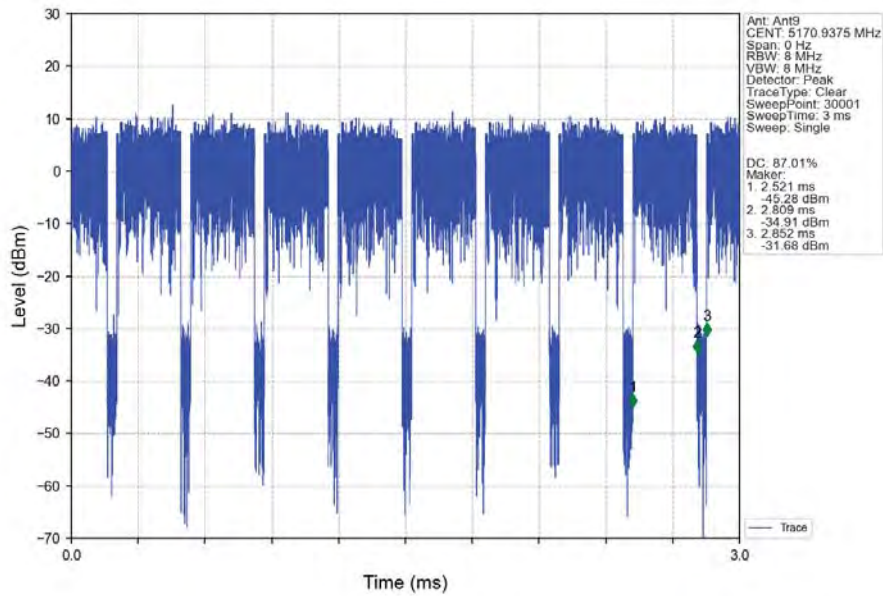
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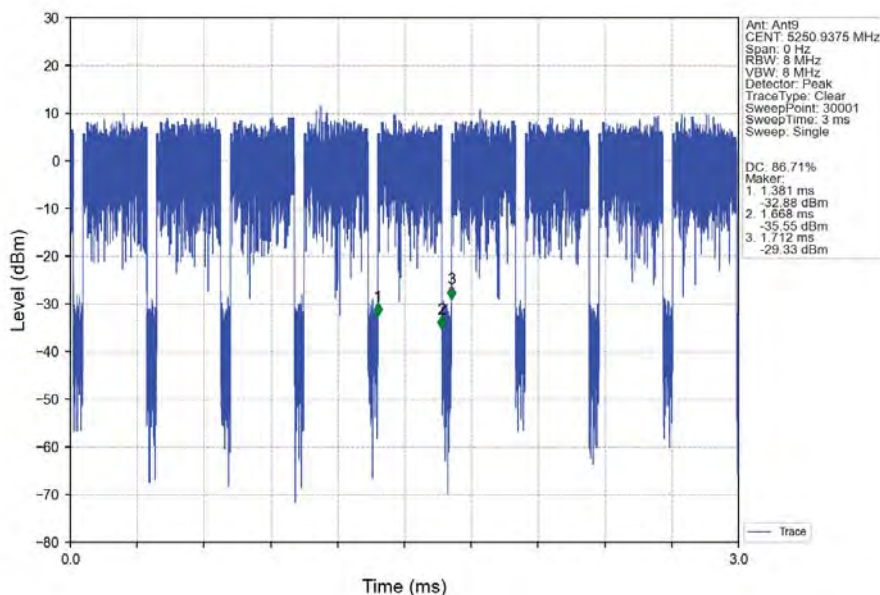
802.11ax(HEW40)_HCH_5795MHz_SU_/_Ant9_NTNV



802.11ax(HEW80)_MCH_5210MHz_SU_ / _Ant9_NTNV



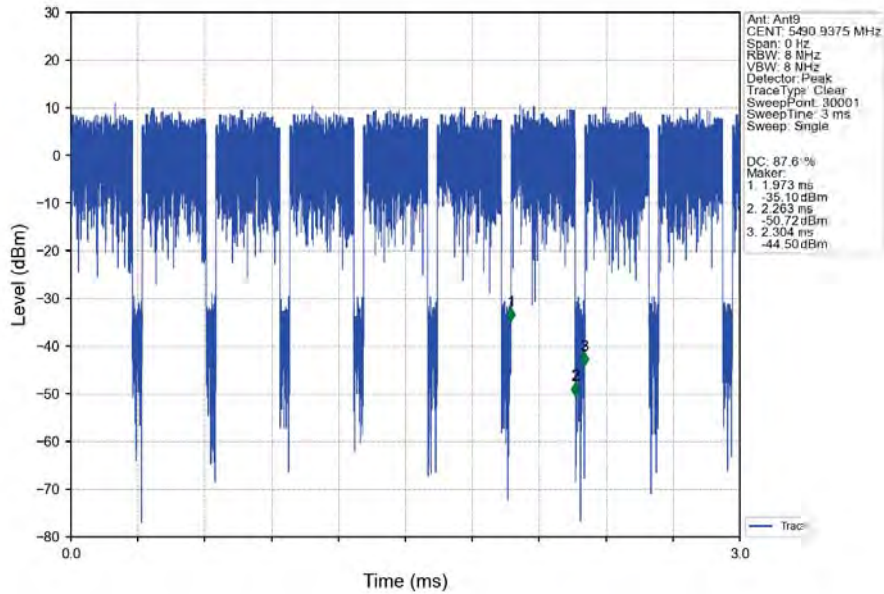
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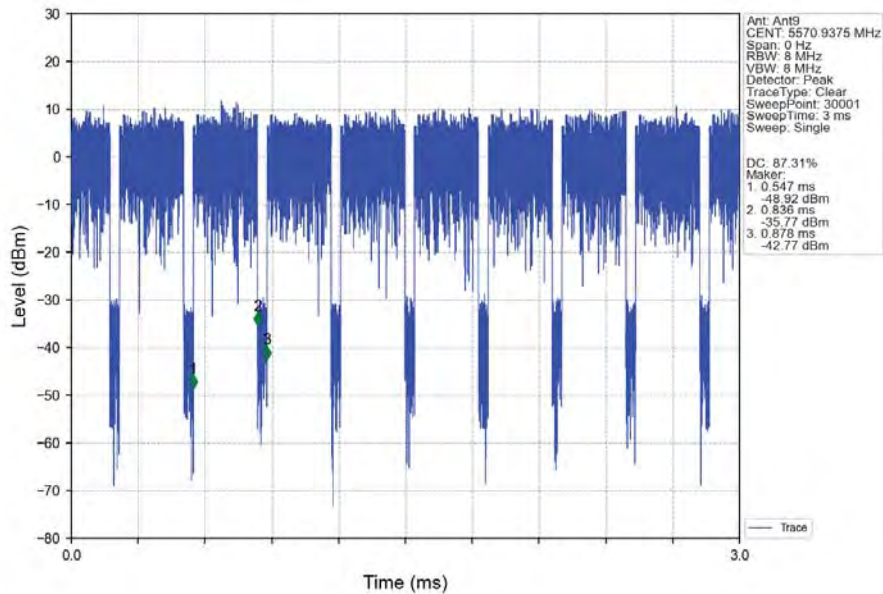
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802.11ax(HEW80)_LCH_5530MHz_SU_/_Ant9_NTNV



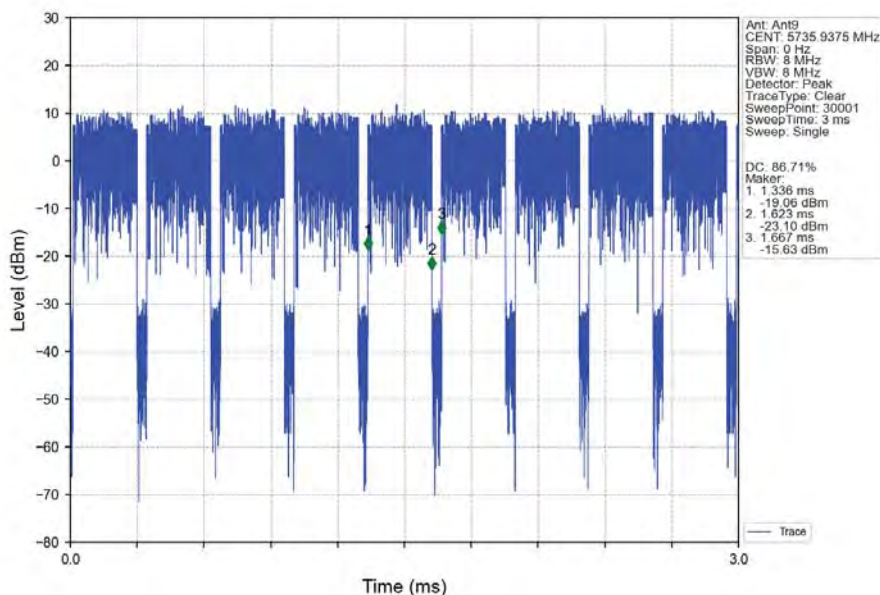
802.11ax(HEW80)_HCH_5610MHz_SU_/_Ant9_NTNV



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802.11ax(HEW80)_MCH_5775MHz_SU_ / _Ant9_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	9	17.289	/	Pass
		5200	/	/	9	17.251	/	Pass
		5240	/	/	9	17.381	/	Pass
		5260	/	/	9	17.281	/	Pass
		5300	/	/	9	17.242	/	Pass
		5320	/	/	9	17.262	/	Pass
		5500	/	/	9	17.261	/	Pass
		5580	/	/	9	17.271	/	Pass
		5700	/	/	9	17.320	/	Pass
		5745	/	/	9	17.353	/	Pass
		5785	/	/	9	17.445	/	Pass
		5825	/	/	9	17.371	/	Pass
802.11n (HT20)	SISO	5180	/	/	9	18.380	/	Pass
		5200	/	/	9	18.457	/	Pass
		5240	/	/	9	18.471	/	Pass
		5260	/	/	9	18.432	/	Pass
		5300	/	/	9	18.393	/	Pass
		5320	/	/	9	18.348	/	Pass
		5500	/	/	9	18.352	/	Pass
		5580	/	/	9	18.423	/	Pass
		5700	/	/	9	18.498	/	Pass
		5745	/	/	9	18.449	/	Pass
		5785	/	/	9	18.531	/	Pass
		5825	/	/	9	18.653	/	Pass
802.11n (HT40)	SISO	5190	/	/	9	36.773	/	Pass
		5230	/	/	9	37.364	/	Pass
		5270	/	/	9	37.208	/	Pass
		5310	/	/	9	36.985	/	Pass
		5510	/	/	9	37.210	/	Pass
		5550	/	/	9	37.131	/	Pass
		5670	/	/	9	37.420	/	Pass

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		5755	/	/	9	37.512	/	Pass
		5795	/	/	9	37.481	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	9	18.734	/	Pass
		5200	/	/	9	18.681	/	Pass
		5240	/	/	9	18.756	/	Pass
		5260	/	/	9	21.303	/	Pass
		5300	/	/	9	18.922	/	Pass
		5320	/	/	9	18.943	/	Pass
		5500	/	/	9	19.171	/	Pass
		5580	/	/	9	19.164	/	Pass
		5700	/	/	9	18.877	/	Pass
		5745	/	/	9	18.979	/	Pass
		5785	/	/	9	19.097	/	Pass
		5825	/	/	9	19.308	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	9	36.980	/	Pass
		5230	/	/	9	37.096	/	Pass
		5270	/	/	9	36.949	/	Pass
		5310	/	/	9	36.818	/	Pass
		5510	/	/	9	37.071	/	Pass
		5550	/	/	9	37.074	/	Pass
		5670	/	/	9	37.286	/	Pass
		5755	/	/	9	37.258	/	Pass
802.11ac (VHT80)	SISO	5795	/	/	9	37.208	/	Pass
		5210	/	/	9	76.727	/	Pass
		5290	/	/	9	76.457	/	Pass
		5530	/	/	9	76.791	/	Pass
		5610	/	/	9	76.579	/	Pass
802.11ax (HEW20)	SISO	5775	/	/	9	77.020	/	Pass
		5180	SU	/	9	19.373	/	Pass
		5200	SU	/	9	19.402	/	Pass
		5240	SU	/	9	19.413	/	Pass
		5260	SU	/	9	19.503	/	Pass
		5300	SU	/	9	19.466	/	Pass
		5320	SU	/	9	19.466	/	Pass
		5500	SU	/	9	19.430	/	Pass
		5580	SU	/	9	19.383	/	Pass
		5700	SU	/	9	19.430	/	Pass
		5745	SU	/	9	19.564	/	Pass
		5785	SU	/	9	19.541	/	Pass
		5825	SU	/	9	19.523	/	Pass



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802.11ax (HEW40)	SISO	5190	SU	/	9	38.263	/	Pass
		5230	SU	/	9	38.345	/	Pass
		5270	SU	/	9	38.460	/	Pass
		5310	SU	/	9	38.313	/	Pass
		5510	SU	/	9	38.543	/	Pass
		5550	SU	/	9	38.631	/	Pass
		5670	SU	/	9	38.833	/	Pass
		5755	SU	/	9	38.887	/	Pass
		5795	SU	/	9	39.147	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	9	78.280	/	Pass
		5290	SU	/	9	77.763	/	Pass
		5530	SU	/	9	78.314	/	Pass
		5610	SU	/	9	77.928	/	Pass
		5775	SU	/	9	78.430	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	9	20.676	/	Pass
		5200	/	/	9	21.846	/	Pass
		5240	/	/	9	20.680	/	Pass
		5260	/	/	9	20.687	/	Pass
		5300	/	/	9	20.243	/	Pass
		5320	/	/	9	21.840	/	Pass
		5500	/	/	9	20.443	/	Pass
		5580	/	/	9	21.488	/	Pass
		5700	/	/	9	25.359	/	Pass
802.11n (HT20)	SISO	5180	/	/	9	22.195	/	Pass
		5200	/	/	9	20.744	/	Pass
		5240	/	/	9	24.678	/	Pass
		5260	/	/	9	22.668	/	Pass
		5300	/	/	9	22.704	/	Pass
		5320	/	/	9	22.267	/	Pass
		5500	/	/	9	22.258	/	Pass
		5580	/	/	9	22.797	/	Pass
		5700	/	/	9	23.738	/	Pass
802.11n (HT40)	SISO	5190	/	/	9	47.080	/	Pass
		5230	/	/	9	65.353	/	Pass
		5270	/	/	9	63.866	/	Pass



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		5310	/	/	9	58.726	/	Pass
		5510	/	/	9	58.430	/	Pass
		5550	/	/	9	66.599	/	Pass
		5670	/	/	9	63.825	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	9	27.995	/	Pass
		5200	/	/	9	29.404	/	Pass
		5240	/	/	9	28.539	/	Pass
		5260	/	/	9	40.373	/	Pass
		5300	/	/	9	28.921	/	Pass
		5320	/	/	9	29.237	/	Pass
		5500	/	/	9	30.724	/	Pass
		5580	/	/	9	34.822	/	Pass
		5700	/	/	9	30.571	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	9	54.381	/	Pass
		5230	/	/	9	57.231	/	Pass
		5270	/	/	9	49.967	/	Pass
		5310	/	/	9	48.964	/	Pass
		5510	/	/	9	54.181	/	Pass
		5550	/	/	9	57.199	/	Pass
		5670	/	/	9	57.876	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	9	117.485	/	Pass
		5290	/	/	9	105.176	/	Pass
		5530	/	/	9	127.158	/	Pass
		5610	/	/	9	117.281	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	9	26.224	/	Pass
		5200	SU	/	9	24.828	/	Pass
		5240	SU	/	9	25.407	/	Pass
		5260	SU	/	9	32.534	/	Pass
		5300	SU	/	9	29.539	/	Pass
		5320	SU	/	9	28.694	/	Pass
		5500	SU	/	9	32.812	/	Pass
		5580	SU	/	9	27.996	/	Pass
		5700	SU	/	9	32.781	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	9	56.791	/	Pass
		5230	SU	/	9	63.791	/	Pass
		5270	SU	/	9	53.376	/	Pass
		5310	SU	/	9	53.345	/	Pass
		5510	SU	/	9	54.484	/	Pass
		5550	SU	/	9	60.279	/	Pass
		5670	SU	/	9	66.585	/	Pass



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802.11ax (HEW80)	SISO	5210	SU	/	9	87.896	/	Pass
		5290	SU	/	9	80.162	/	Pass
		5530	SU	/	9	87.681	/	Pass
		5610	SU	/	9	86.174	/	Pass

2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	9	15.666	>=0.5	Pass
		5785	/	/	9	15.652	>=0.5	Pass
		5825	/	/	9	16.313	>=0.5	Pass
802.11n (HT20)	SISO	5745	/	/	9	15.935	>=0.5	Pass
		5785	/	/	9	16.297	>=0.5	Pass
		5825	/	/	9	14.268	>=0.5	Pass
802.11n (HT40)	SISO	5755	/	/	9	35.349	>=0.5	Pass
		5795	/	/	9	35.186	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	9	15.098	>=0.5	Pass
		5785	/	/	9	17.212	>=0.5	Pass
		5825	/	/	9	15.049	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	9	35.129	>=0.5	Pass
		5795	/	/	9	35.202	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	/	/	9	75.179	>=0.5	Pass
802.11ax (HEW20)	SISO	5745	SU	/	9	18.625	>=0.5	Pass
		5785	SU	/	9	16.460	>=0.5	Pass
		5825	SU	/	9	18.148	>=0.5	Pass
802.11ax (HEW40)	SISO	5755	SU	/	9	37.638	>=0.5	Pass
		5795	SU	/	9	37.535	>=0.5	Pass
802.11ax (HEW80)	SISO	5775	SU	/	9	76.516	>=0.5	Pass



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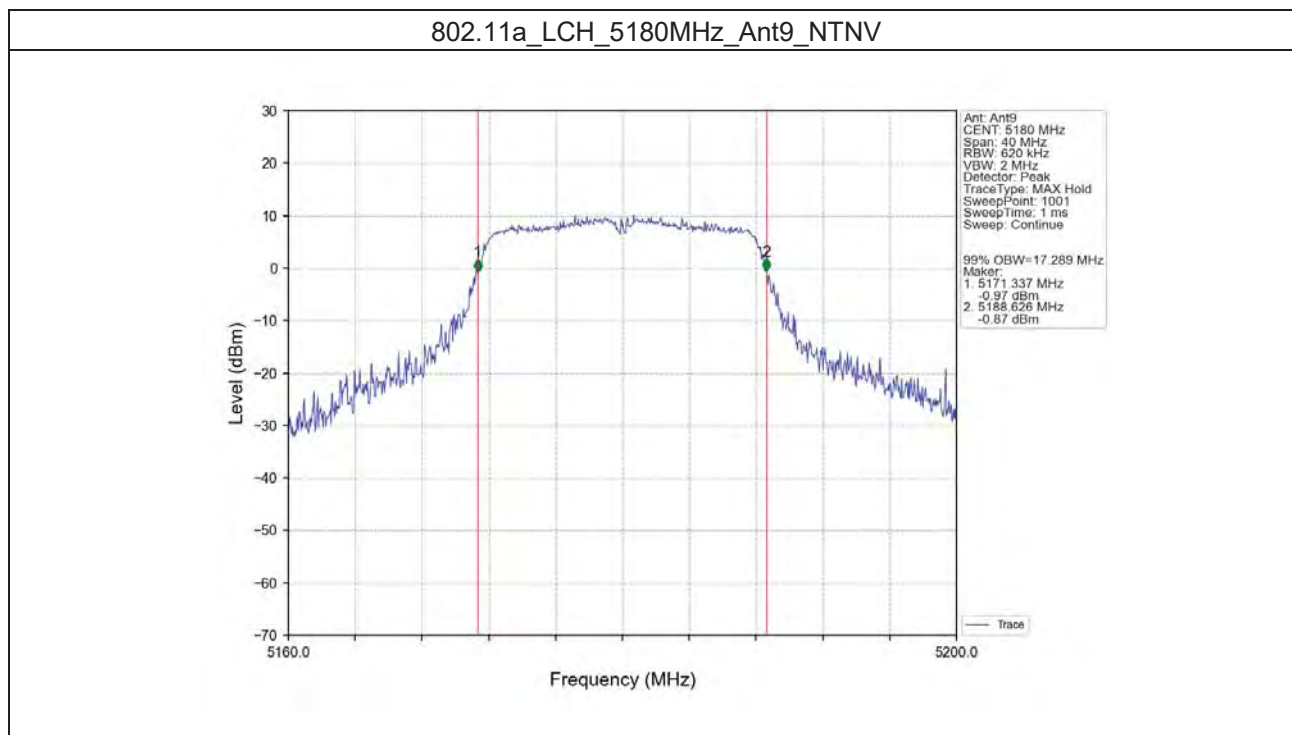
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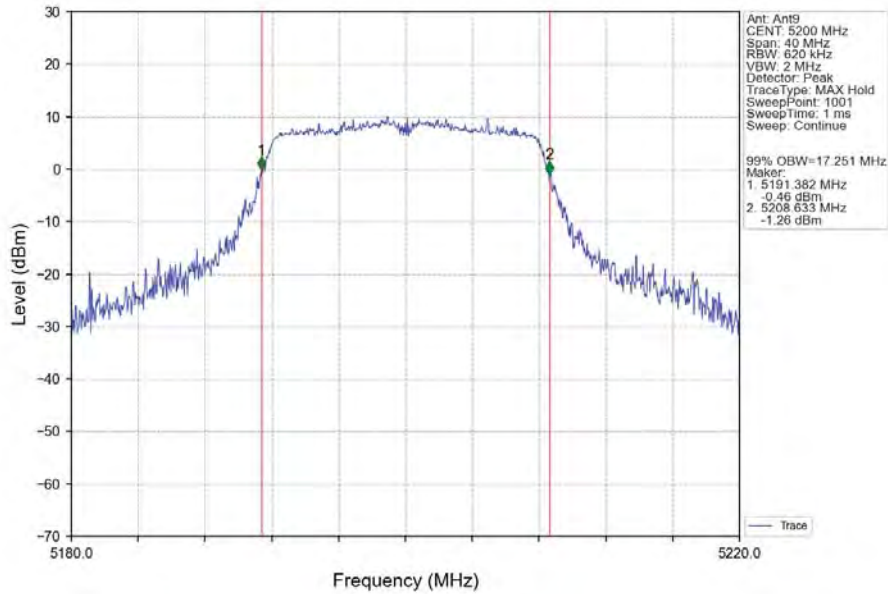
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2.2 Test Graph

2.2.1 OBW



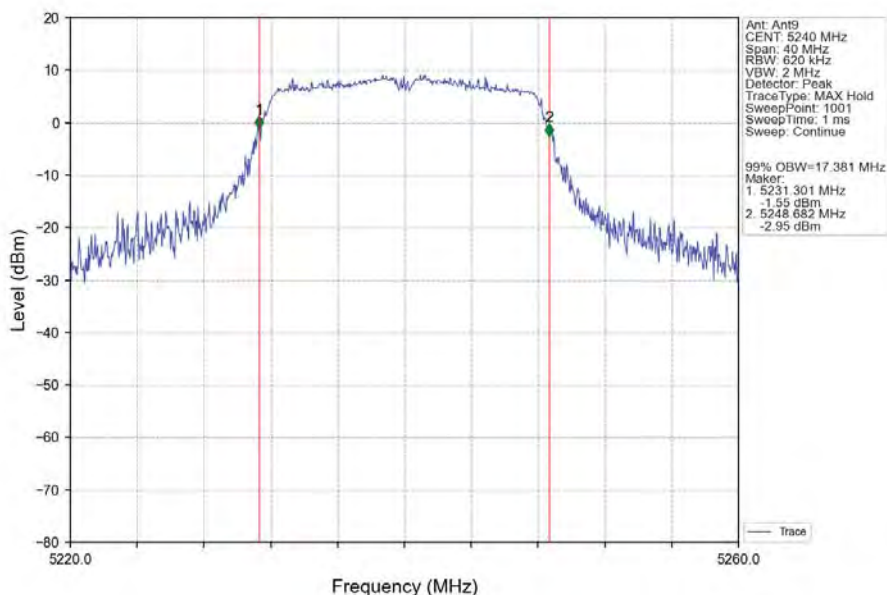
802.11a_MCH_5200MHz_Ant9_NTNV



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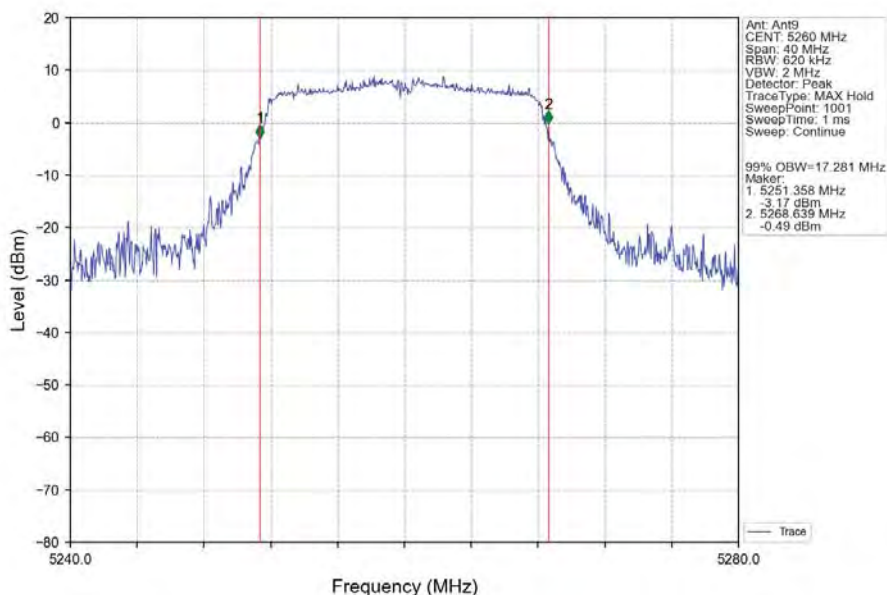
802.11a_HCH_5240MHz_Ant9_NTNV



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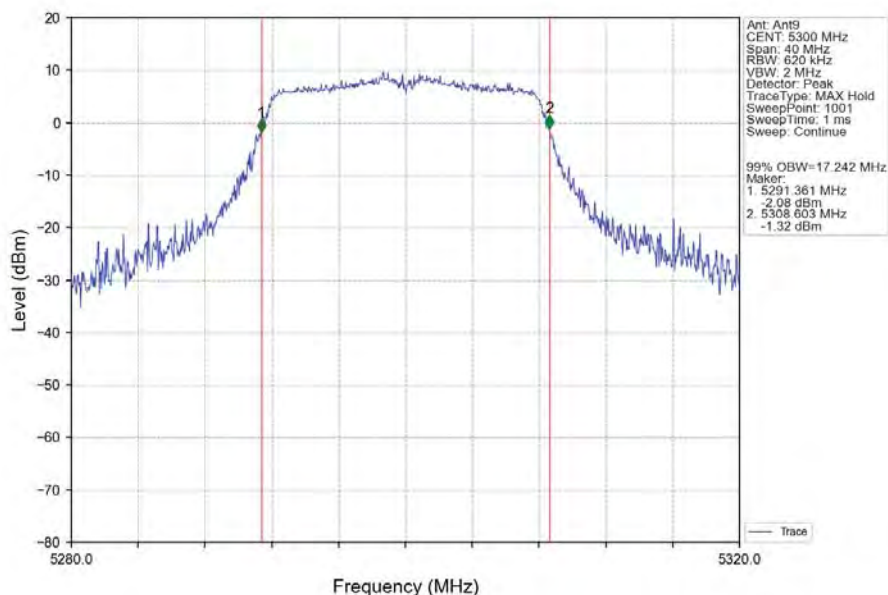
802.11a_LCH_5260MHz_Ant9_NTNV



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802.11a_MCH_5300MHz_Ant9_NTNV



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