



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360407

Page: 1 of 330

TEST REPORT

Application No.: SZCR2409003604WM
Applicant: Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Applicant: NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong,China
Manufacturer: Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Manufacturer: NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong,China
Equipment Under Test (EUT):
EUT Description: Mobile Phone
Model No.: CPH2697
Trade Mark: OPPO
FCC ID: R9C-OP24261
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2024-09-23
Date of Test: 2024-10-18 to 2024-11-27
Date of Issue: 2024-11-27

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

Kenx. Xu

Keny Xu
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-11-27		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
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	47 CFR Part 15, Subpart E 15.407 (a)(10)	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Maximum e.i.r.p		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)(5)	Pass
Maximum Power spectral density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)(5)	Pass
In-Band Emissions		KDB 987594 D02 U-NII 6GHz EMC Measurement v02r01	47 CFR Part 15, Subpart E 15.407 (b)(7)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Contention-based Protocol		KDB 987594 D02 U-NII 6GHz EMC Measurement v02r01	47 CFR Part 15, Subpart E 15.407 (d)(6)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	NA

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4 General Information

4.1 Details of E.U.T.

EUT Description:	Mobile Phone	
Model No.:	CPH2697	
Trade Mark:	OPPO	
Hardware Version:	11	
Software Version:	ColorOS 15.0	
Power Supply:	DC 3.92V from internal rechargeable battery which can be charged by AC/DC adapter	
IEEE 802.11 WLAN Mode Supported:	☒ 802.11a (20 MHz channel bandwidth), ☒ 802.11ax (20 MHz channel bandwidth) ☒ 802.11ax (40 MHz channel bandwidth) ☒ 802.11ax (80 MHz channel bandwidth) ☒ 802.11ax (160 MHz channel bandwidth)	
Operation Frequency:	IEEE 802.11 a/ax(HE20/40/80/160): 5925 MHz ~ 6425 MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
FCC Classification:	6GHz Low Power Indoor Client (6XD)	
Antenna Type:	IFA Antenna	
Smart System:	☒ SISO	802.11a/n/ac/ax
	☒ MIMO	802.11a/n/ac/ax: 2Tx & 2Rx
	☒ Diversity	CDD:802.11a: 2Tx & 2Rx
Antenna Gain:	5925 MHz ~ 6425 MHz: -2dBi(Ant8); -2dBi(Ant9)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	2.0dB	
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.	

4.2 Description of Support Units

Equipment	Manufacturer	Model No.	FCC ID
Router	TP-Link	Archer BE805	2AXJ4BE805

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
In-Band Emissions	$\pm 3\%$
Maximum e.i.r.p	$\pm 0.75\text{dB}$
Maximum Power spectral density	$\pm 2.84\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
Contention-based Protocol	$\pm 3\%$

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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4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2024-01-30	2025-01-29
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
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	2024-03-14	2025-03-13

RF Conducted test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

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	2024-03-14	2025-03-13
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



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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	2024-01-30	2025-01-29
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024-01-30	2025-01-29
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120D	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	2022-01-05	2025-01-04
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	2024-01-30	2025-01-29
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120D	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	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

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	2024-03-18	2025-03-17



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RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Contention-based Protocol					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2022/5/14	2025/5/13
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2024/3/27	2025/3/26
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2024/3/14	2025/3/13
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2024/3/14	2025/3/13
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2024/8/15	2025/8/14
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2024/3/19	2025/3/18
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024/3/27	2025/3/26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024/3/27	2025/3/26
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024/3/27	2025/3/26
Power Sensor	TST PASS	TSPS2023R	SEM009-27	2024/3/27	2025/3/26
Power Sensor	TST PASS	TSPS2023R	SEM009-28	2024/3/27	2025/3/26
Power Sensor	TST PASS	TSPS2023R	SEM009-29	2024/3/27	2025/3/26
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2024-07-06	2025-07-05



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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 IFA Antenna and no consideration of replacement.

The best case gain of the antenna is

5925 MHz ~ 6425 MHz: -2dBi(Ant8); -2dBi(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: 23.5 °C

Humidity: 45.5 % RH

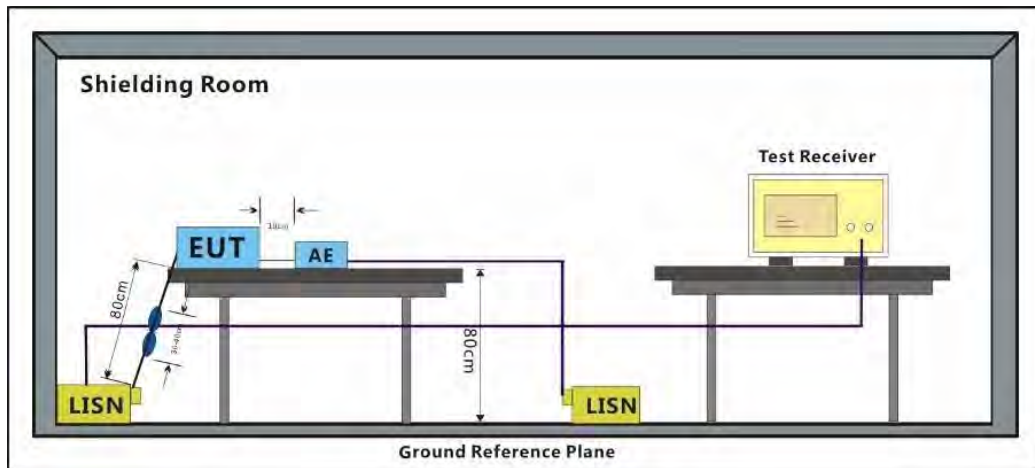
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	23	Charge + TX mode (U-NII-5) _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: Level=Read Level+ Cable Loss+ LISN Factor

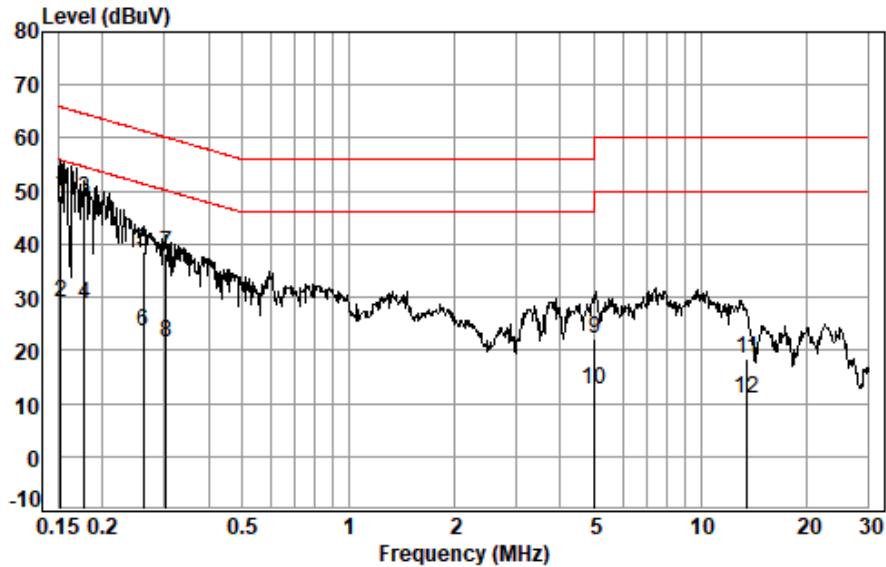
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Test Mode: 00; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03604WM
Test mode: 23

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.06	9.81	39.49	49.36	65.87	-16.51	QP
2	0.1524	0.06	9.81	19.25	29.12	55.87	-26.75	Average
3 *	0.1777	0.06	9.80	38.75	48.61	64.59	-15.98	QP
4 *	0.1777	0.06	9.80	18.88	28.74	54.59	-25.85	Average
5	0.2616	0.07	9.77	28.77	38.61	61.38	-22.77	QP
6	0.2616	0.07	9.77	13.78	23.62	51.38	-27.76	Average
7	0.3035	0.07	9.75	28.37	38.19	60.15	-21.96	QP
8	0.3035	0.07	9.75	11.74	21.56	50.15	-28.59	Average
9	5.0046	0.12	9.64	12.35	22.11	60.00	-37.89	QP
10	5.0046	0.12	9.64	2.85	12.61	50.00	-37.39	Average
11	13.5509	0.24	10.07	8.12	18.43	60.00	-41.57	QP
12	13.5509	0.24	10.07	0.58	10.89	50.00	-39.11	Average



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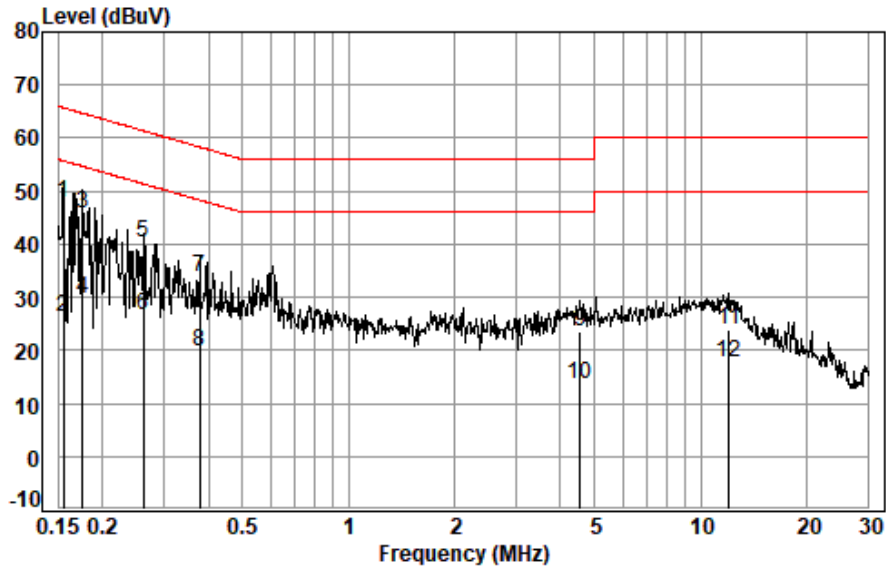
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Test Mode: 00; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03604WM
Test mode: 23

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1548	0.06	9.82	37.92	47.80	65.74	-17.94	QP
2	0.1548	0.06	9.82	16.39	26.27	55.74	-29.47	Average
3	0.1758	0.06	9.82	35.80	45.68	64.68	-19.00	QP
4	0.1758	0.06	9.82	19.94	29.82	54.68	-24.86	Average
5	0.2616	0.07	9.80	30.37	40.24	61.38	-21.14	QP
6 *	0.2616	0.07	9.80	16.69	26.56	51.38	-24.82	Average
7	0.3771	0.07	9.76	24.11	33.94	58.34	-24.40	QP
8	0.3771	0.07	9.76	10.10	19.93	48.34	-28.41	Average
9	4.5494	0.12	9.66	13.84	23.62	56.00	-32.38	QP
10	4.5494	0.12	9.66	3.82	13.60	46.00	-32.40	Average
11	12.0599	0.23	10.08	13.51	23.82	60.00	-36.18	QP
12	12.0599	0.23	10.08	7.48	17.79	50.00	-32.21	Average



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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

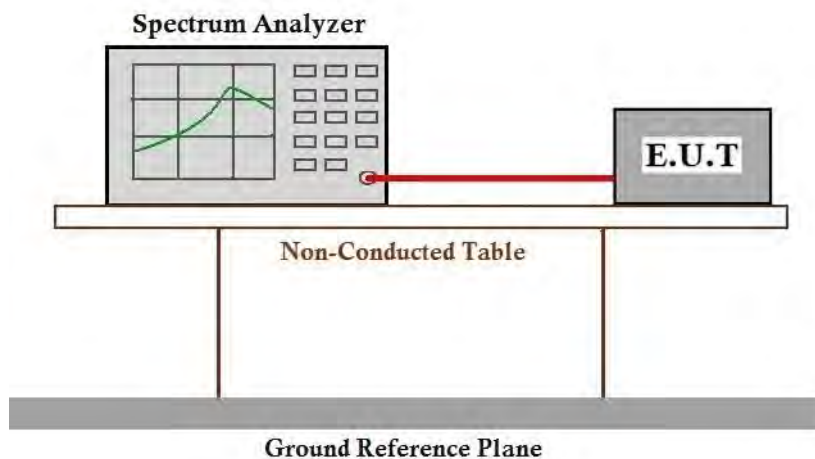
Humidity: 54.9 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5)_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.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.3 99% Bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)(10)

Test Method: KDB 789033 II D

Limit:

The maximum transmitter channel bandwidth for U-NII devices in the 5.925–7.125 GHz band is 320MHz.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

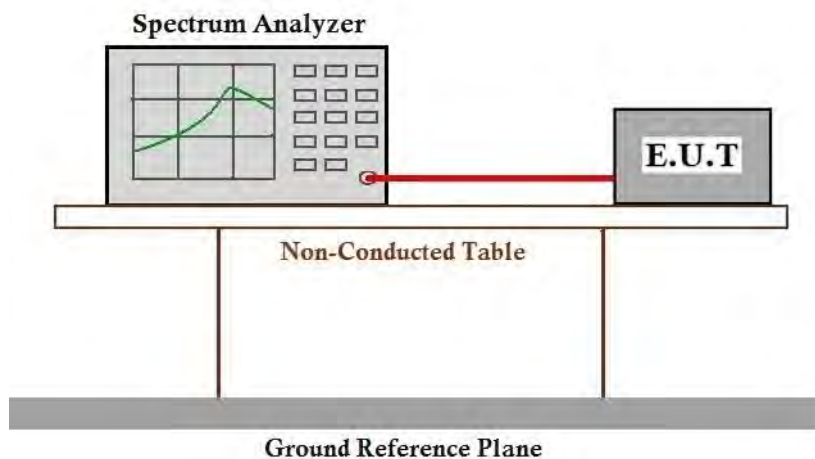
Humidity: 54.9 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5)_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.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

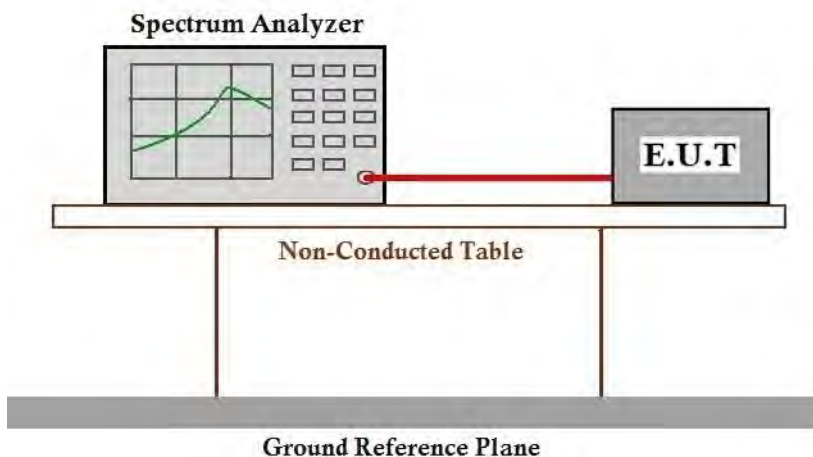
Humidity: 54.9 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5)_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.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.5 Maximum e.i.r.p

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)(5)
Test Method: KDB 789033 D02 II E

Limit:

For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

For Thailand, the client devices operating in the 5.925-6.425 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 250mW (24 dBm) for LPI and 25 mW (14 dBm) for VLP.

7.5.1 E.U.T. Operation

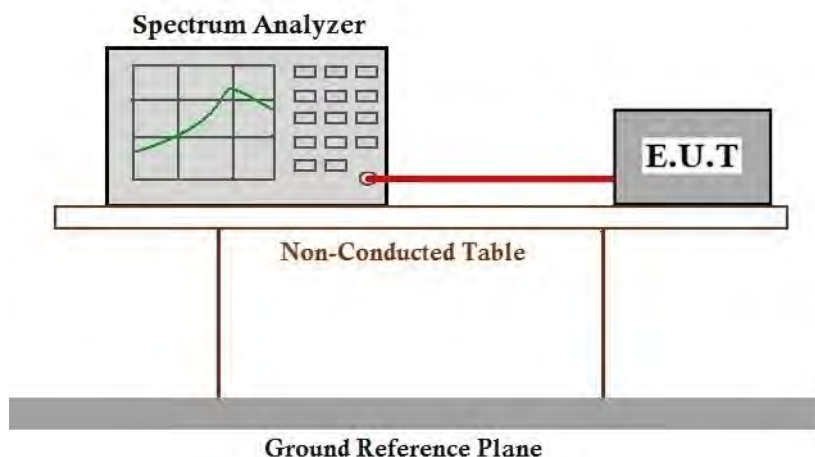
Operating Environment:

Temperature: 21.8 °C Humidity: 54.9 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5)_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.

7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.6 Maximum Power spectral density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)(5)

Test Method: KDB 789033 D02 II F

Limit:

For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

For Thailand, the client devices operating in the 5.925-6.425 GHz bands, the maximum power spectral density over the frequency band of operation must not exceed 11 dBm e.i.r.p. in any 1-megahertz band for LPI and 1 dBm e.i.r.p. in any 1-megahertz band for VLP.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

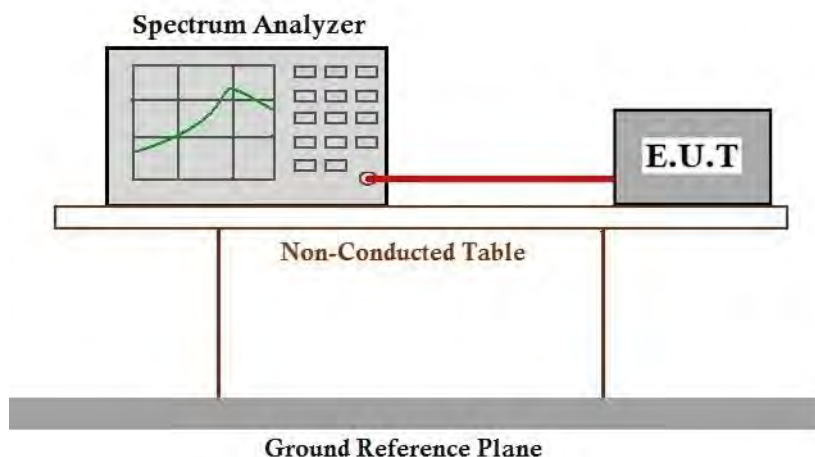
Humidity: 54.9 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5)_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.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 In-Band Emissions

Test Requirement 47 CFR Part 15, Subpart E 15.407 (b)(7)
Test Method: KDB 987594 D02 U-NII 6GHz EMC Measurement v02r01

Limit:

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

7.7.1 E.U.T. Operation

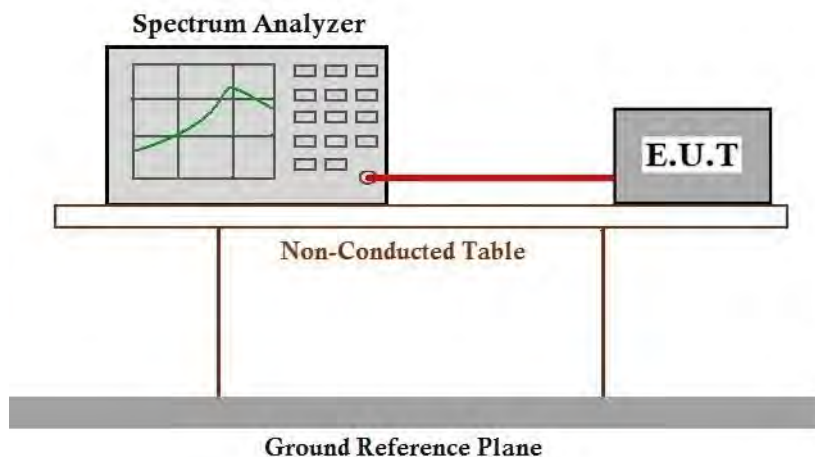
Operating Environment:

Temperature: 21.8 °C Humidity: 54.9 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5) 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 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	23	Charge + TX mode (U-NII-5) _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.



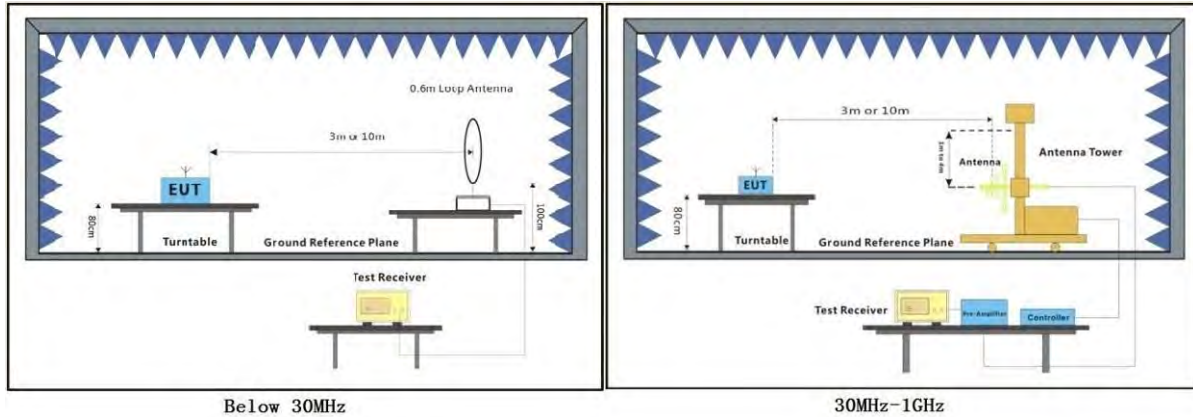
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7.8.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz

7.8.4 Measurement Procedure and Data

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

Remark:

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



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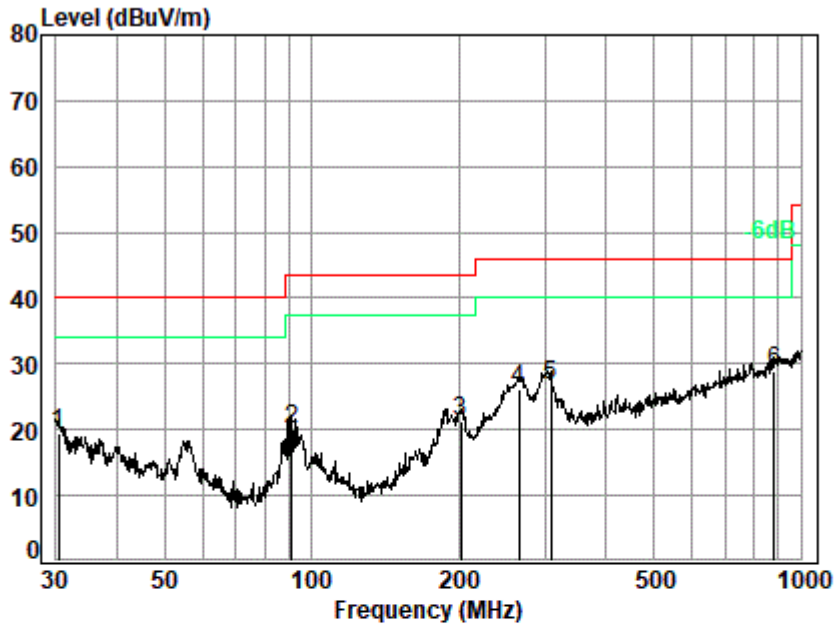
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Test Mode: 23; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03604WM
Test Mode:

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.317	21.05	0.67	27.79	25.66	19.59	40.00	-20.41	QP
2	91.175	11.83	1.17	27.62	34.69	20.07	43.50	-23.43	QP
3	202.100	14.29	1.77	27.16	32.37	21.27	43.50	-22.23	QP
4	265.676	17.07	2.07	26.89	33.82	26.07	46.00	-19.93	QP
5	307.831	18.41	2.23	26.78	32.97	26.83	46.00	-19.17	QP
6 q	881.407	27.76	4.07	26.90	23.97	28.90	46.00	-17.10	QP



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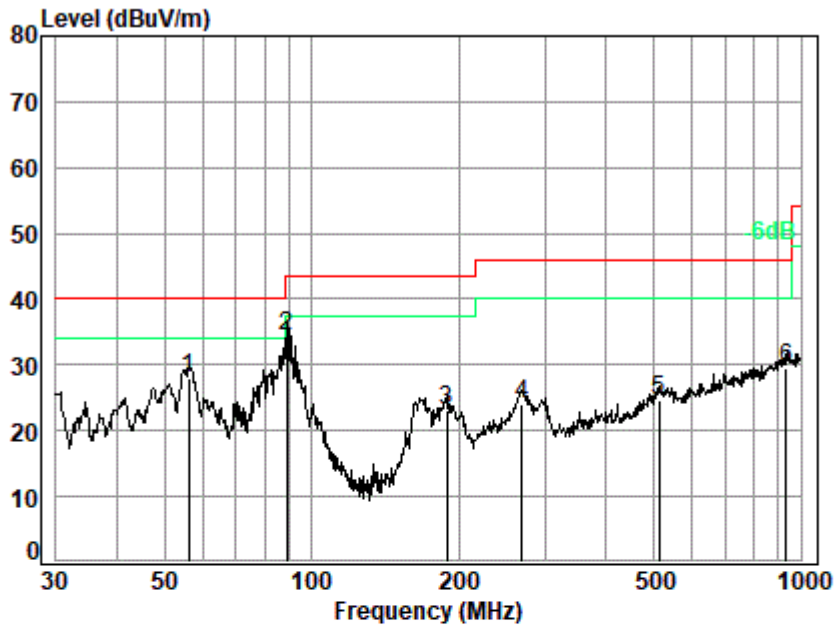
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Test Mode: 23; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03604WM
Test Mode:

		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	56.001	11.85	0.92	27.72	42.86	27.91	40.00	-12.09 QP
2 q	88.964	11.61	1.15	27.62	49.27	34.41	43.50	-9.09 QP
3	189.074	14.29	1.72	27.22	34.31	23.10	43.50	-20.40 QP
4	269.428	17.10	2.08	26.88	31.75	24.05	46.00	-21.95 QP
5	513.633	23.26	2.97	27.62	26.04	24.65	46.00	-21.35 QP
6	932.272	28.16	4.21	26.53	23.72	29.56	46.00	-16.44 QP



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7.9 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

Humidity: 50.6 % RH

Atmospheric Pressure: 1020 mbar



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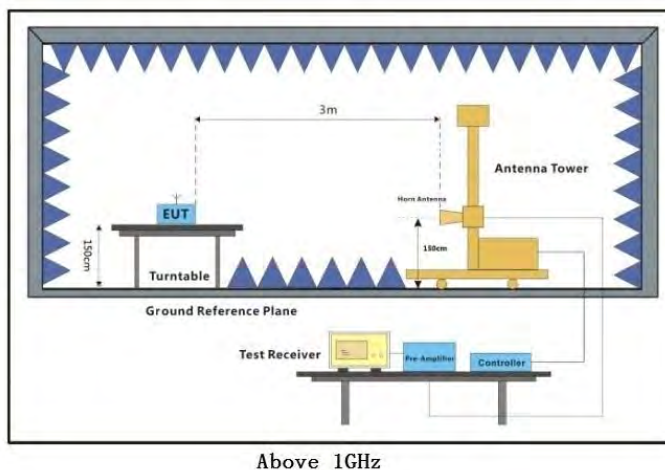
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7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	23	Charge + TX mode (U-NII-5) _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.

7.9.3 Test Setup Diagram



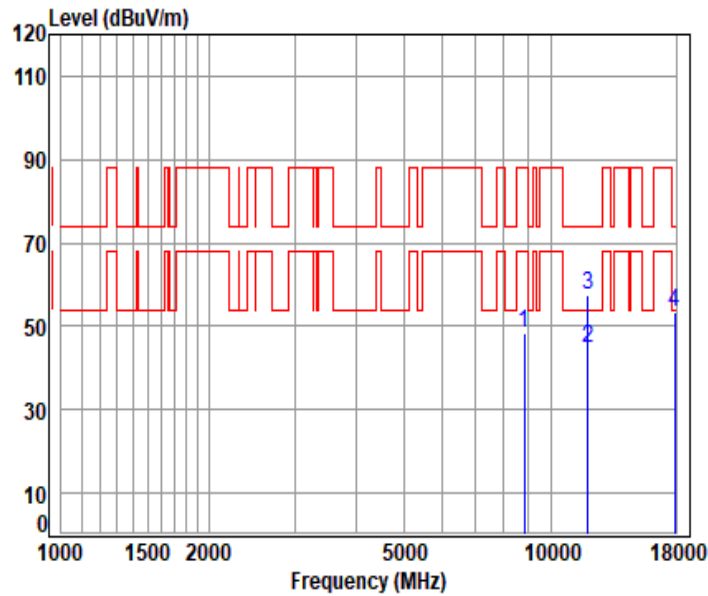
7.9.4 Measurement Procedure and Data

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

Remark:

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

11a_TX_CH_001_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 5955 TX SE

: WIFI 6E 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	
8831.943	12.50	38.50	55.15	52.54	48.39	88.20	-39.81	peak
pp11910.000	14.62	39.71	53.77	44.02	44.58	54.00	-9.42	Average
pk11910.000	14.62	39.71	53.77	57.11	57.67	74.00	-16.33	peak
17865.000	19.21	42.89	54.47	45.72	53.35	74.00	-20.65	peak



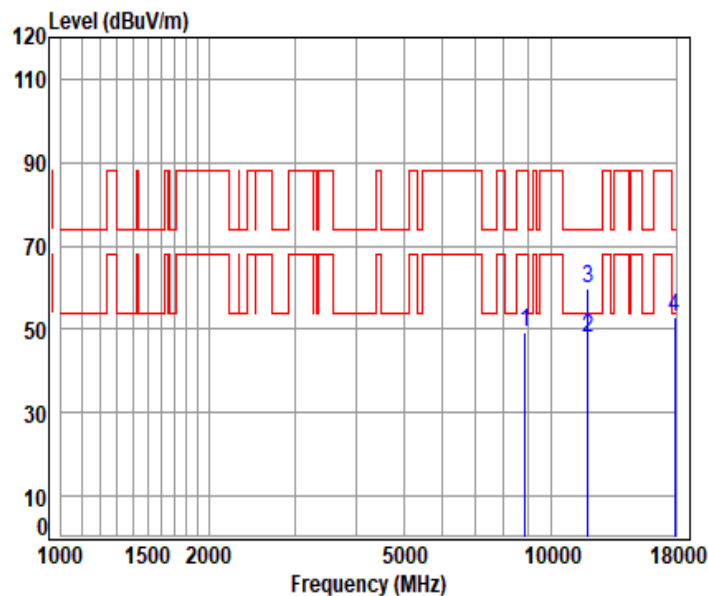
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11a_TX_CH_001_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5955 TX SE

: WIFI 6E 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	8853.455	12.53	38.51	55.13	53.33	49.24	88.20 -38.96 peak
2	pp11910.000	14.62	39.71	53.77	47.15	47.71	54.00 -6.29 Average
3	pk11910.000	14.62	39.71	53.77	59.43	59.99	74.00 -14.01 peak
4	17865.000	19.21	42.89	54.47	45.12	52.75	74.00 -21.25 peak



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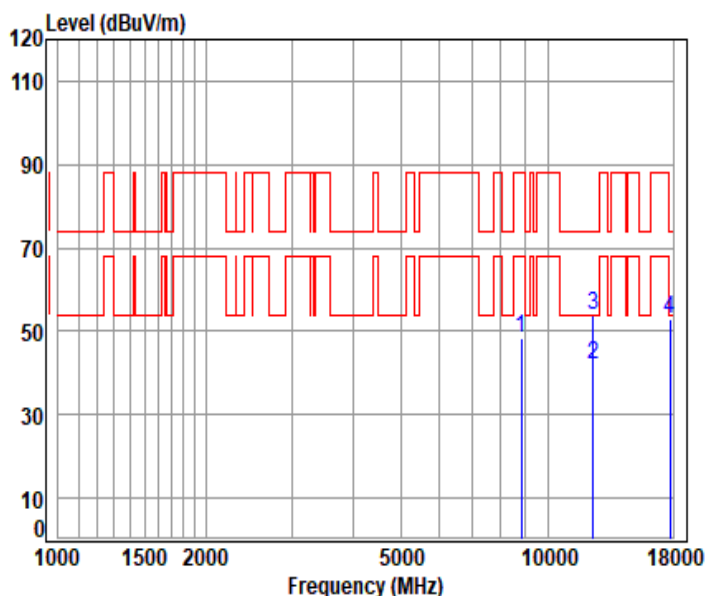
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11a_TX_CH_045_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6175 TX SE

: WIFI 6E 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	8831.943	12.50	38.50	55.15	52.42	48.27	88.20 -39.93 peak
2	pp12350.000	14.81	39.85	54.04	41.17	41.79	54.00 -12.21 Average
3	pk12350.000	14.81	39.85	54.04	53.04	53.66	74.00 -20.34 peak
4	17739.170	19.12	42.07	54.45	46.37	53.11	74.00 -20.89 peak



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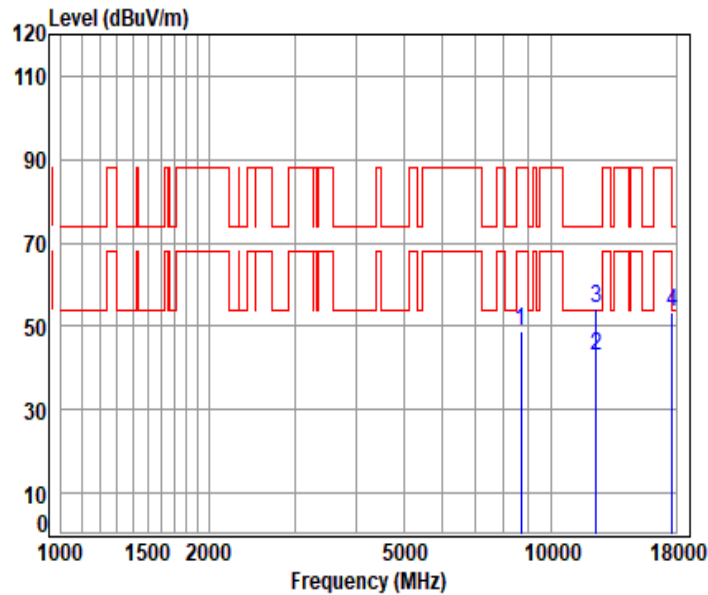
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11a_TX_CH_045_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6175 TX SE

: WIFI 6E 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	8675.774	12.42	38.50	55.29	52.97	48.60	88.20 -39.60 peak
2	pp12350.000	14.81	39.85	54.04	42.05	42.67	54.00 -11.33 Average
3	pk12350.000	14.81	39.85	54.04	53.78	54.40	74.00 -19.60 peak
4	17696.060	19.09	41.74	54.44	46.83	53.22	88.20 -34.98 peak



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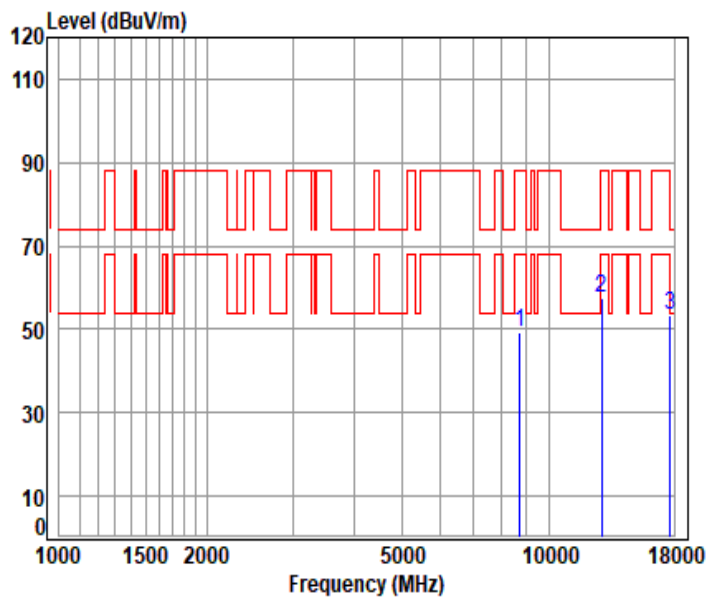
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11a_TX_CH_093_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6415 TX SE

: WIFI 6E 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	8732.240	12.45	38.54	55.24	53.50	49.25	88.20 -38.95 peak
2	12830.000	15.28	40.33	54.38	56.41	57.64	88.20 -30.56 peak
3	pp17710.420	19.12	41.87	54.44	46.66	53.21	74.00 -20.79 peak



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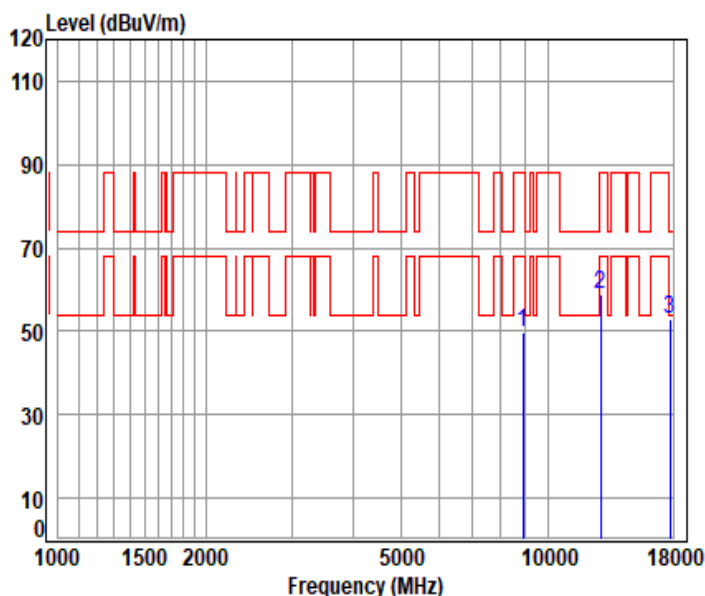
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360407

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11a_TX_CH_093_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6415 TX SE

: WIFI 6E 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 8889.426	12.58	38.58	55.10	53.56	49.62	88.20	-38.58 peak
2 12830.000	15.28	40.33	54.38	57.76	58.99	88.20	-29.21 peak
3 pp17753.560	19.13	42.17	54.45	46.19	53.04	74.00	-20.96 peak



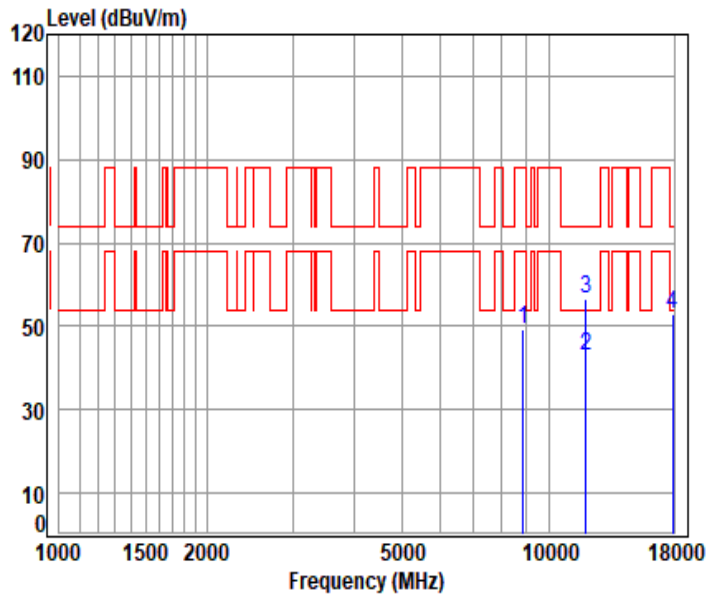
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11ax_20M_TX_CH_001_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 5955 TX SE

: WIFI 6E 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8846.278	12.52	38.50	55.14	53.35	49.23	88.20	-38.97 peak
2 pp11910.000	14.62	39.71	53.77	42.34	42.90	54.00	-11.10 Average
3 pk11910.000	14.62	39.71	53.77	56.15	56.71	74.00	-17.29 peak
4 17865.000	19.21	42.89	54.47	45.50	53.13	74.00	-20.87 peak



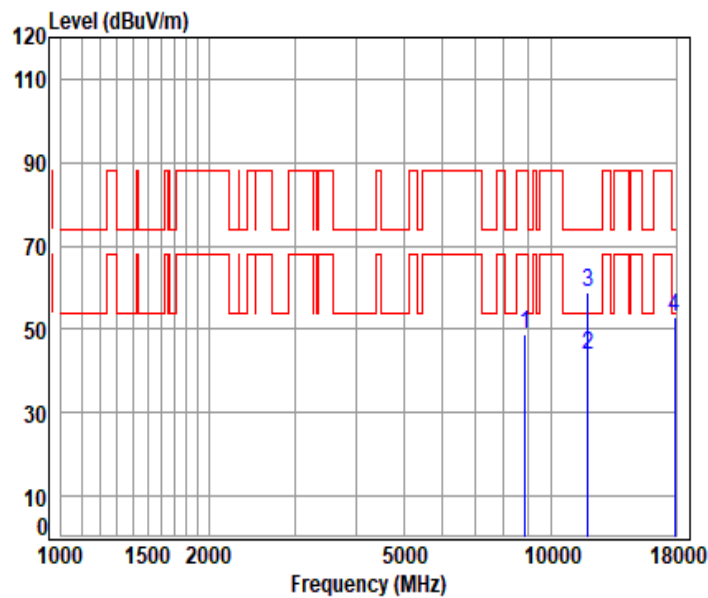
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360407

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11ax_20M_TX_CH_001_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5955 TX SE

: WIFI 6E 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8846.278	12.52	38.50	55.14	53.17	49.05	88.20	-39.15 peak
2 pp11910.000	14.62	39.71	53.77	43.34	43.90	54.00	-10.10 Average
3 pk11910.000	14.62	39.71	53.77	58.40	58.96	74.00	-15.04 peak
4 17865.000	19.21	42.89	54.47	45.43	53.06	74.00	-20.94 peak



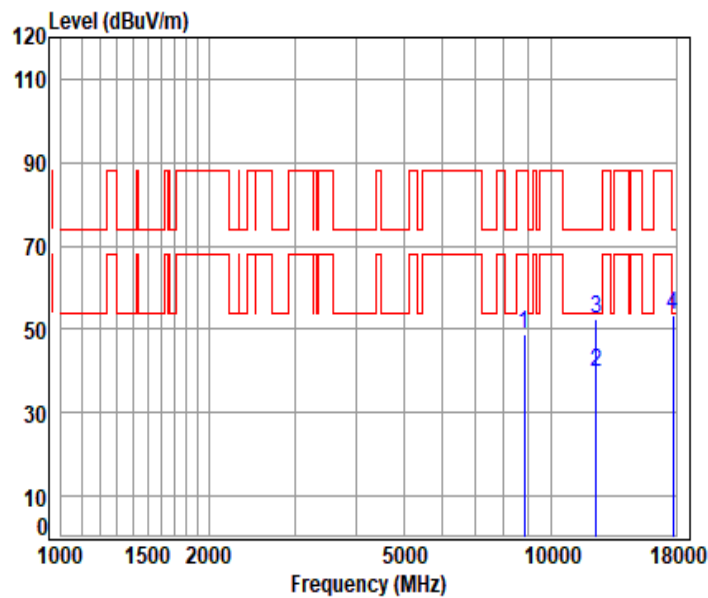
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11ax_20M_TX_CH_045_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

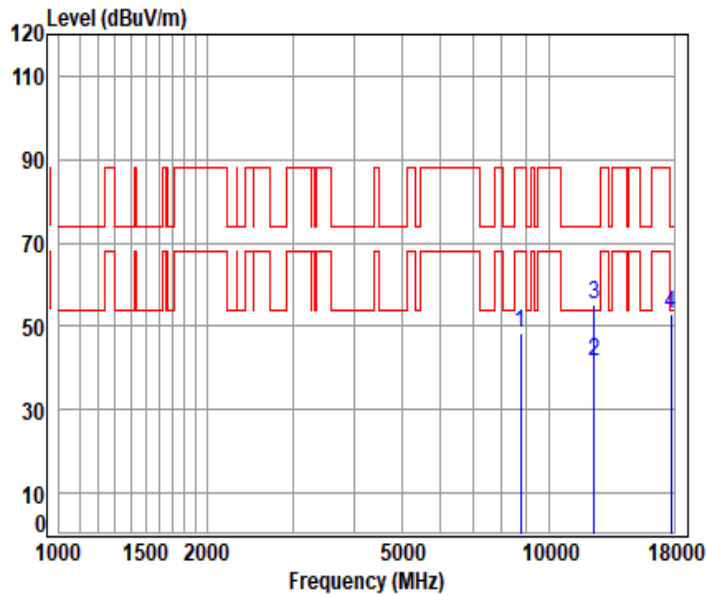
Mode : 6175 TX SE

: WIFI 6E 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8824.784	12.49	38.50	55.16	53.12	48.95	88.20 -39.25 peak
2	pp12350.000	14.81	39.85	54.04	39.09	39.71	54.00 -14.29 Average
3	12350.000	14.81	39.85	54.04	51.64	52.26	74.00 -21.74 peak
4	pk17724.790	19.12	41.97	54.44	46.59	53.24	74.00 -20.76 peak



11ax_20M_TX_CH_045_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6175 TX SE

: WIFI 6E 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8760.611	12.45	38.50	55.22	52.61	48.34	88.20 -39.86 peak
2	pp12350.000	14.81	39.85	54.04	41.04	41.66	54.00 -12.34 Average
3	pk12350.000	14.81	39.85	54.04	54.69	55.31	74.00 -18.69 peak
4	17724.790	19.12	41.97	54.44	46.37	53.02	74.00 -20.98 peak



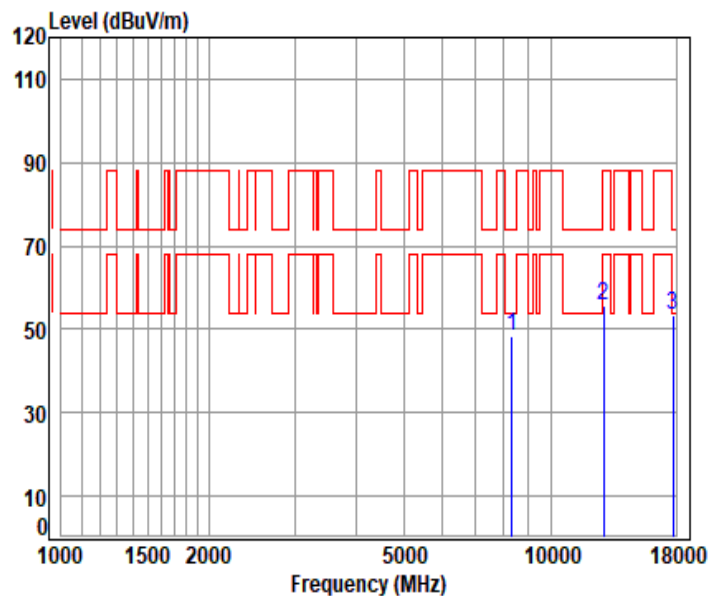
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11ax_20M_TX_CH_093_Horizontal



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6415 TX SE

: WIFI 6E 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8331.038	11.98	38.40	55.60	53.38	48.16	74.00 -25.84 peak
2	12830.000	15.28	40.33	54.38	54.32	55.55	88.20 -32.65 peak
3	pp17739.170	19.12	42.07	54.45	46.72	53.46	74.00 -20.54 peak



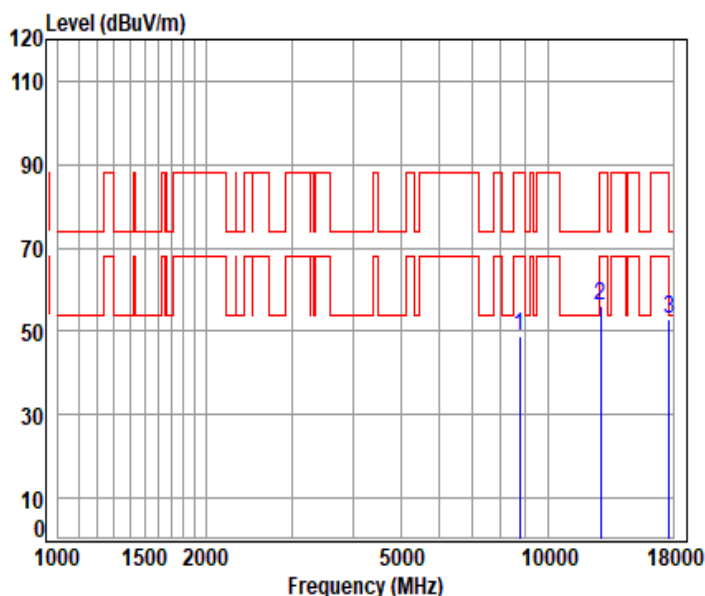
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Report No.: SZCR240900360407

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11ax_20M_TX_CH_093_Vertical



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6415 TX SE

: WIFI 6E 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8767.719	12.45	38.50	55.21	53.23	48.97	88.20	-39.23 peak
2 pp12830.000	15.28	40.33	54.38	55.03	56.26	88.20	-31.94 peak
3 17667.390	18.87	41.31	54.43	47.03	52.78	88.20	-35.42 peak



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7.10 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: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

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.



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7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

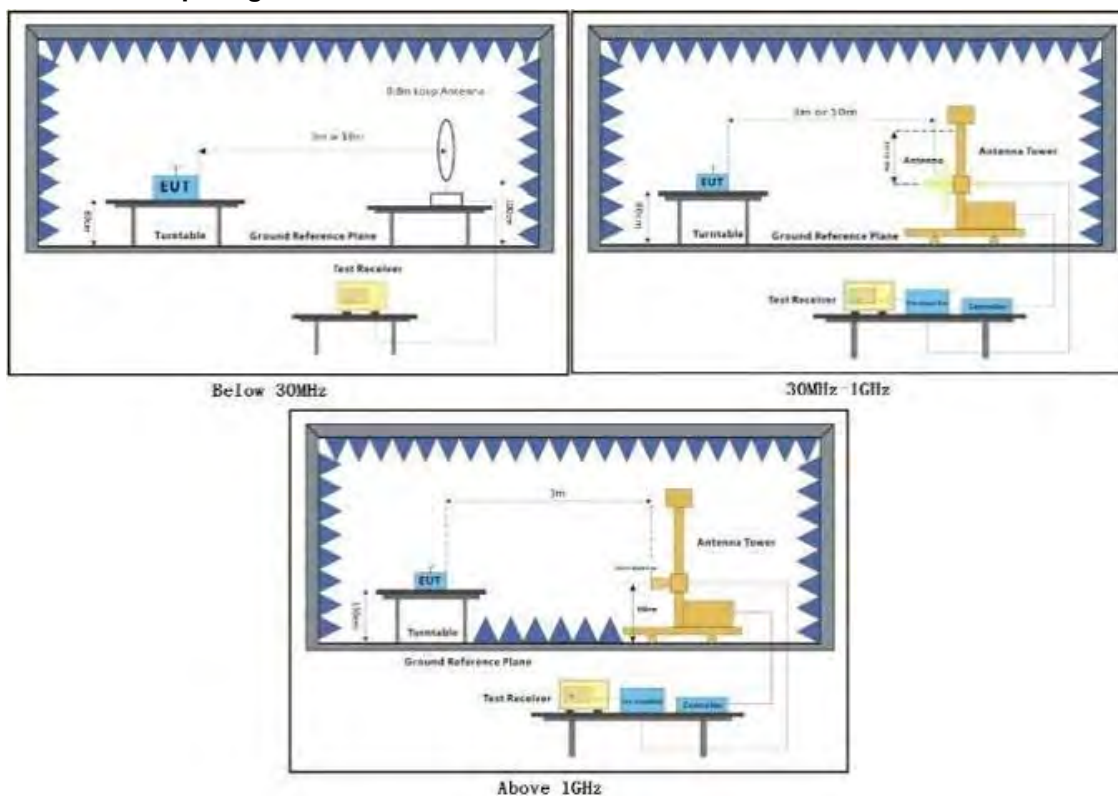
Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	23	Charge + TX mode (U-NII-5) _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.

7.10.3 Test Setup Diagram



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7.10.4 Measurement Procedure and Data

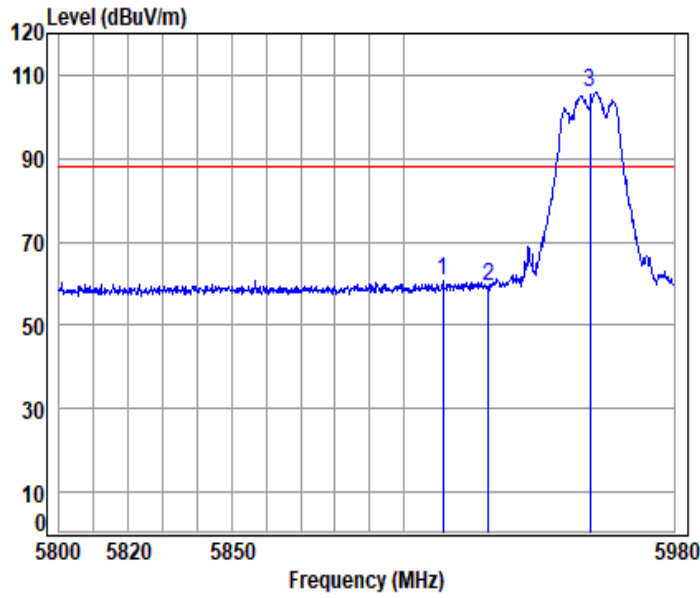
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
 - e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
 - h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
 - i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
 - j. Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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11a_TX_CH_001_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

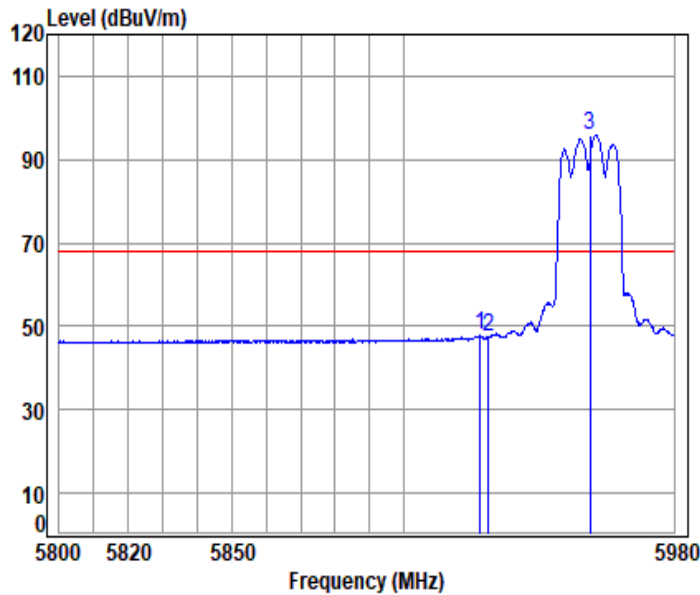
Mode : 5955 Band edge

: WIFI 6E 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	5911.674	10.88	33.52	30.54	46.90	60.76	88.20	-27.44	peak
2	5925.000	10.87	33.55	30.53	45.34	59.23	88.20	-28.97	peak
3 pp	5955.000	10.85	33.62	30.52	92.06	106.01	88.20	17.81	peak



11a_TX_CH_001_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 5955 Band edge

: WIFI 6E 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	5922.706	10.87	33.55	30.53	33.85	47.74	68.20	-20.46 Average
2	5925.000	10.87	33.55	30.53	33.42	47.31	68.20	-20.89 Average
3	pp 5955.000	10.85	33.62	30.52	81.92	95.87	68.20	27.67 Average



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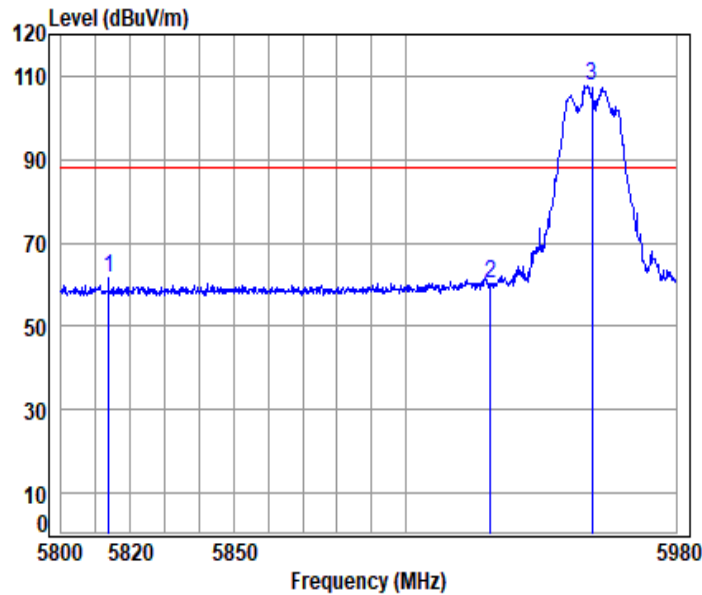
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11a_TX_CH_001_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5955 Band edge

: WIFI 6E 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	5813.666	11.00	33.45	30.57	47.72	61.60	88.20 -26.60 peak
2	5925.000	10.87	33.55	30.53	46.17	60.06	88.20 -28.14 peak
3 pp	5955.000	10.85	33.62	30.52	93.77	107.72	88.20 19.52 peak



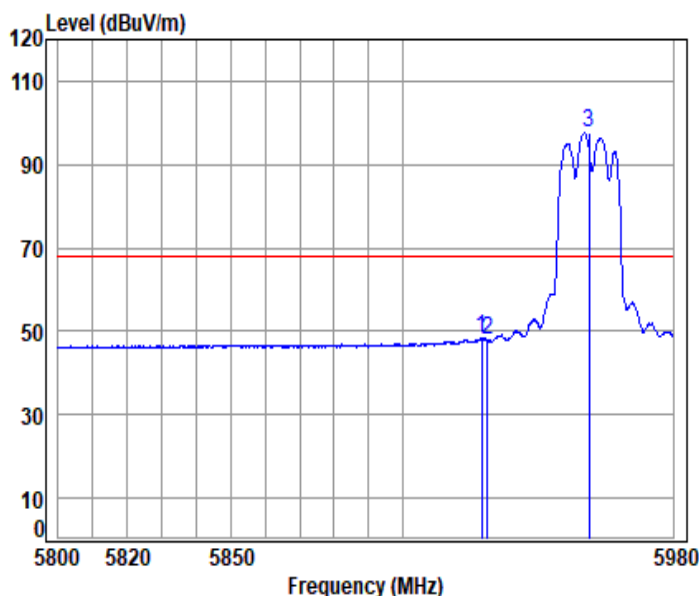
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11a_TX_CH_001_Verical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5955 Band edge

: WIFI 6E 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	5923.430	10.87	33.55	30.53	34.51	48.40	68.20	-19.80 Average
2	5925.000	10.87	33.55	30.53	34.20	48.09	68.20	-20.11 Average
3	pp 5955.000	10.85	33.62	30.52	83.64	97.59	68.20	29.39 Average



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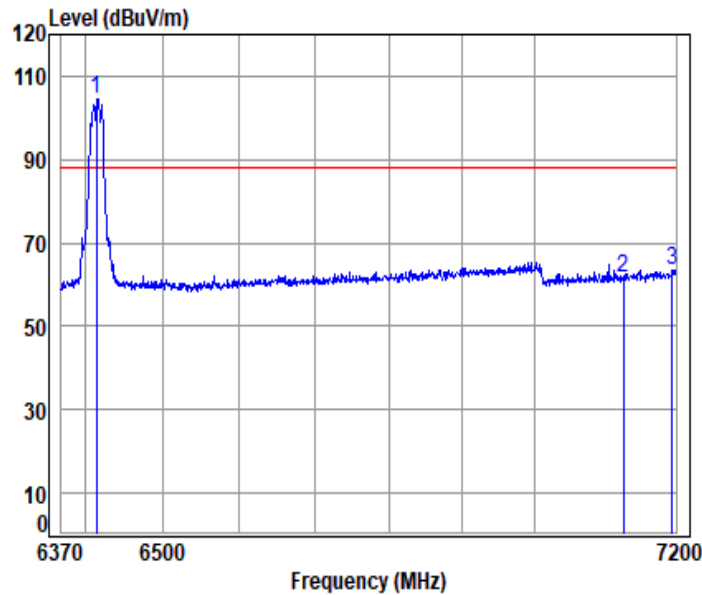
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11a_TX_CH_093_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6415 Band edge

: WIFI 6E 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	6415.000	11.00	34.80	30.79	89.64	104.65	88.20	16.45	peak
2	7125.000	11.82	36.45	31.26	44.42	61.43	88.20	-26.77	peak
3	7194.711	11.89	36.59	31.30	46.32	63.50	88.20	-24.70	peak



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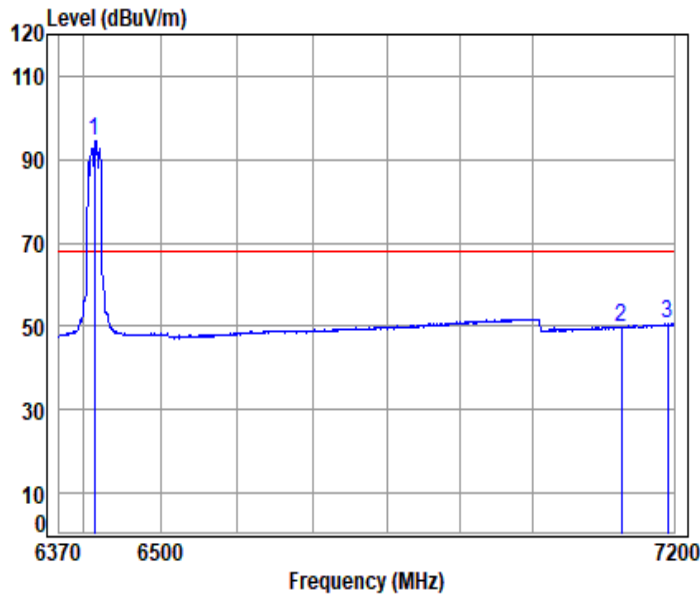
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11a_TX_CH_093_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6415 Band edge

: WIFI 6E 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	6415.000	11.00	34.80	30.79	79.67	94.68	68.20	26.48	Average
2	7125.000	11.82	36.45	31.26	32.54	49.55	68.20	-18.65	Average
3	7191.187	11.88	36.58	31.30	33.36	50.52	68.20	-17.68	Average



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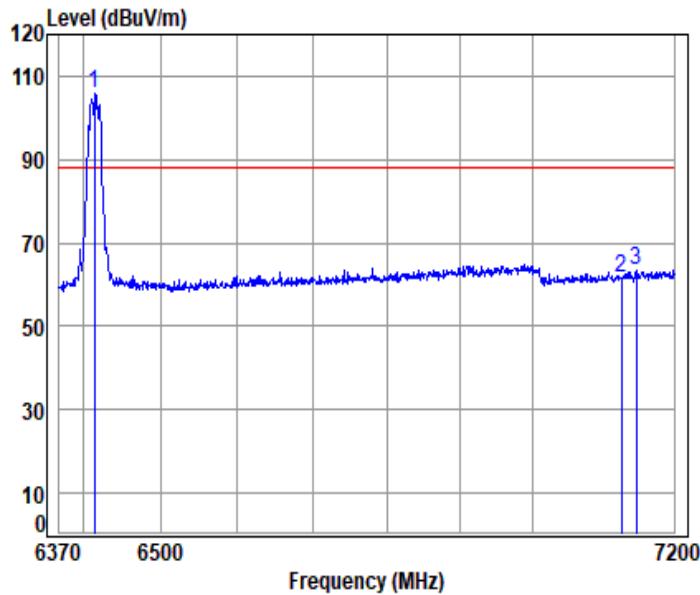
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11a_TX_CH_093_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6415 Band edge

: WIFI 6E 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	6415.000	11.00	34.80	30.79	91.05	106.06	88.20	17.86	peak
2	7125.000	11.82	36.45	31.26	44.71	61.72	88.20	-26.48	peak
3	7146.407	11.84	36.49	31.27	46.56	63.62	88.20	-24.58	peak



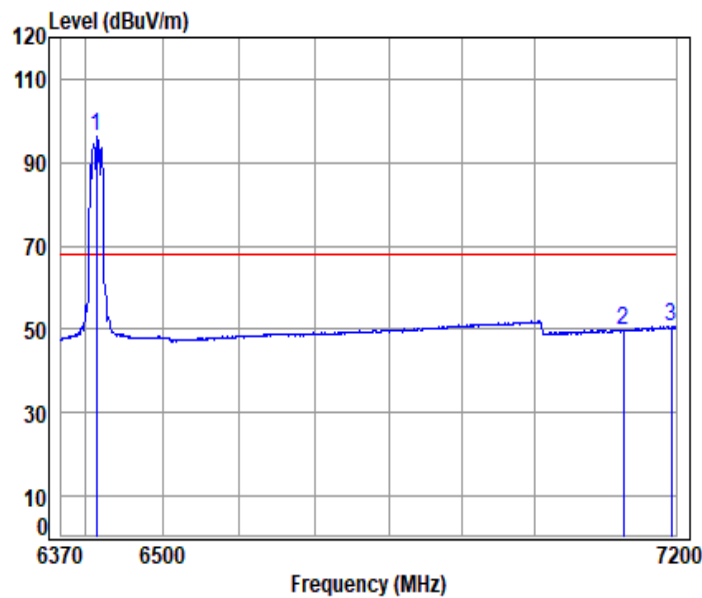
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11a_TX_CH_093_Verical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

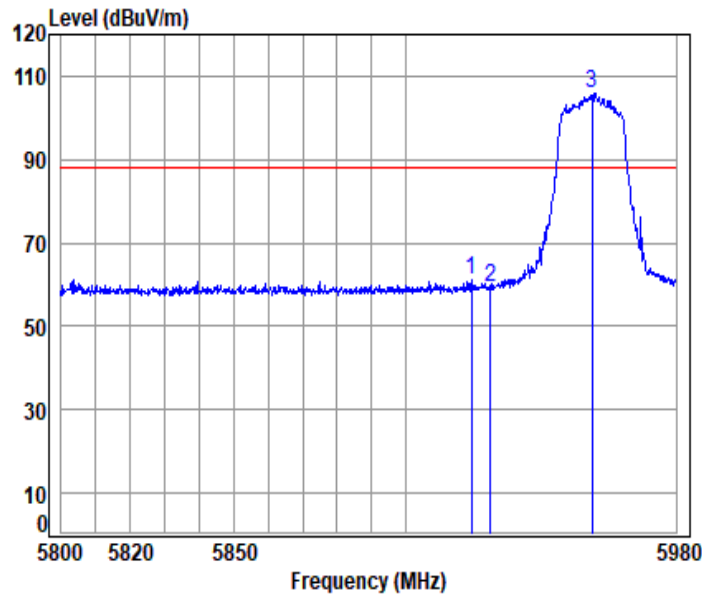
Mode : 6415 Band edge

: WIFI 6E 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	6415.000	11.00	34.80	30.79	81.33	96.34	68.20	28.14	Average
2	7125.000	11.82	36.45	31.26	32.73	49.74	68.20	-18.46	Average
3	7193.830	11.88	36.59	31.30	33.54	50.71	68.20	-17.49	Average



11ax_20M_TX_CH_001_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

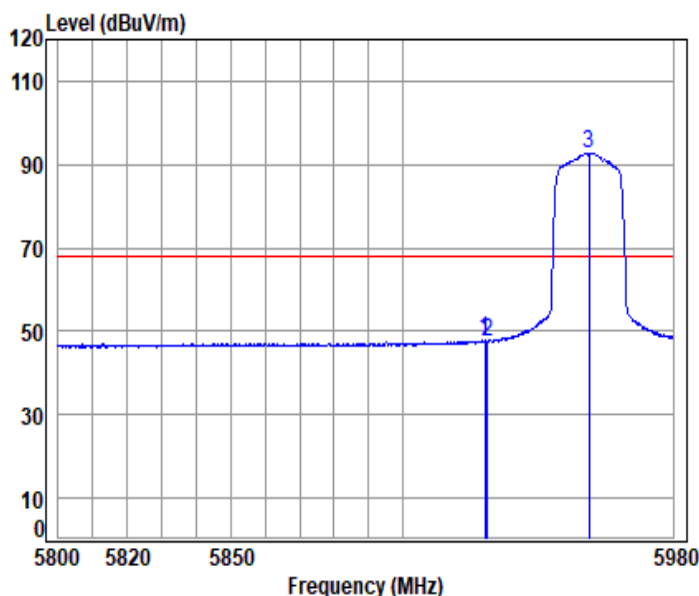
Mode : 5955 Band edge

: WIFI 6E 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5919.448	10.87	33.54	30.53	47.13	61.01	88.20	-27.19 peak
2	5925.000	10.87	33.55	30.53	45.46	59.35	88.20	-28.85 peak
3	pp 5955.000	10.85	33.62	30.52	91.80	105.75	88.20	17.55 peak



11ax_20M_TX_CH_001_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

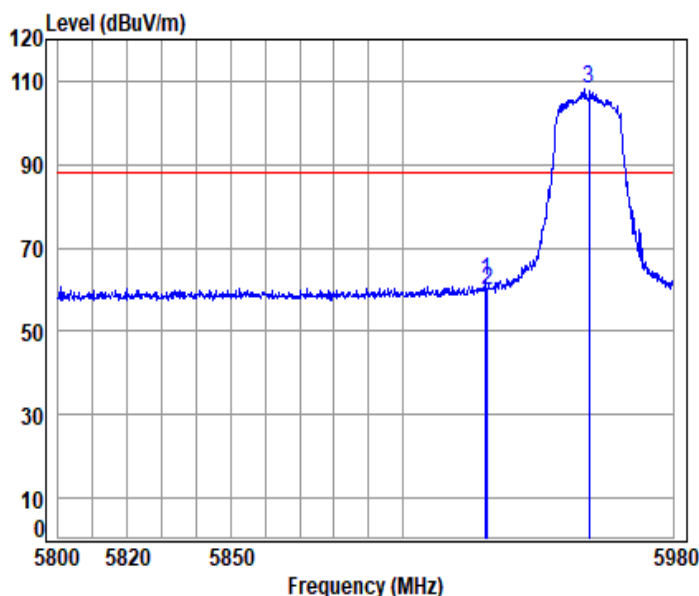
Mode : 5955 Band edge

: WIFI 6E 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.335	10.87	33.55	30.53	33.84	47.73	68.20	-20.47 Average
2	5925.000	10.87	33.55	30.53	33.69	47.58	68.20	-20.62 Average
3	pp 5955.000	10.85	33.62	30.52	78.88	92.83	68.20	24.63 Average



11ax_20M_TX_CH_001_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5955 Band edge

: WIFI 6E 11AX20 MIMO

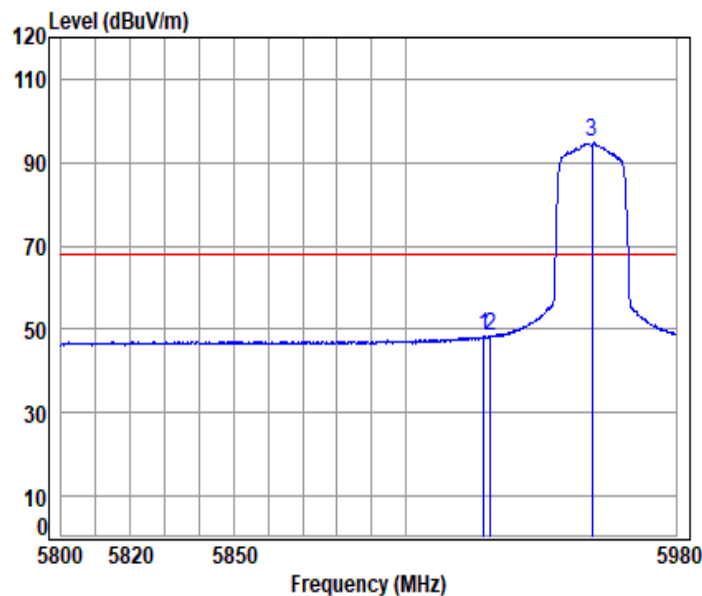
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5924.516	10.87	33.55	30.53	48.04	61.93	88.20 -26.27 peak
2	5925.000	10.87	33.55	30.53	45.80	59.69	88.20 -28.51 peak
3 pp	5955.000	10.85	33.62	30.52	94.03	107.98	88.20 19.78 peak



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11ax_20M_TX_CH_001_Verical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5955 Band edge

: WIFI 6E 11AX20 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5923.067	10.87	33.55	30.53	34.51	48.40	68.20	-19.80 Average
2	5925.000	10.87	33.55	30.53	34.40	48.29	68.20	-19.91 Average
3	pp 5955.000	10.85	33.62	30.52	80.74	94.69	68.20	26.49 Average



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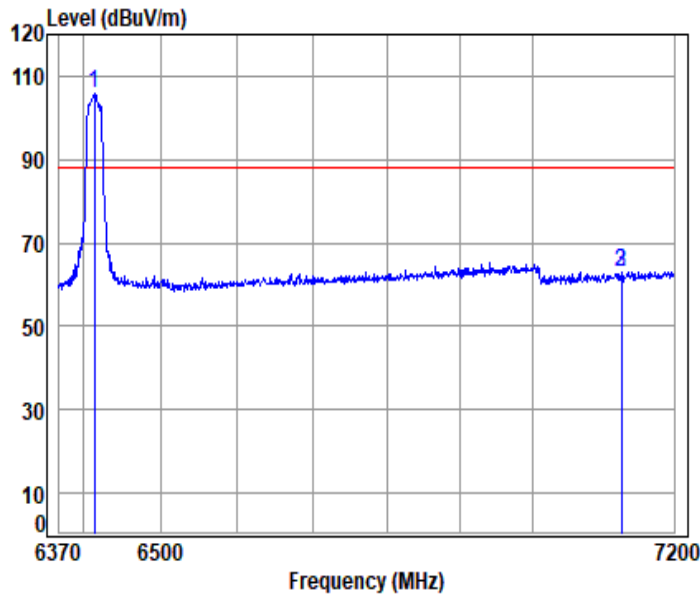
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11ax_20M_TX_CH_093_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6415 Band edge

: WIFI 6E 11AX20 MIMO

		Cable	Ant	Preamp	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 6415.000	11.00	34.80	30.79	90.97	105.98	88.20	17.78	peak
2	7125.000	11.82	36.45	31.26	46.18	63.19	88.20	-25.01	peak
3	7125.430	11.82	36.45	31.26	46.18	63.19	88.20	-25.01	peak



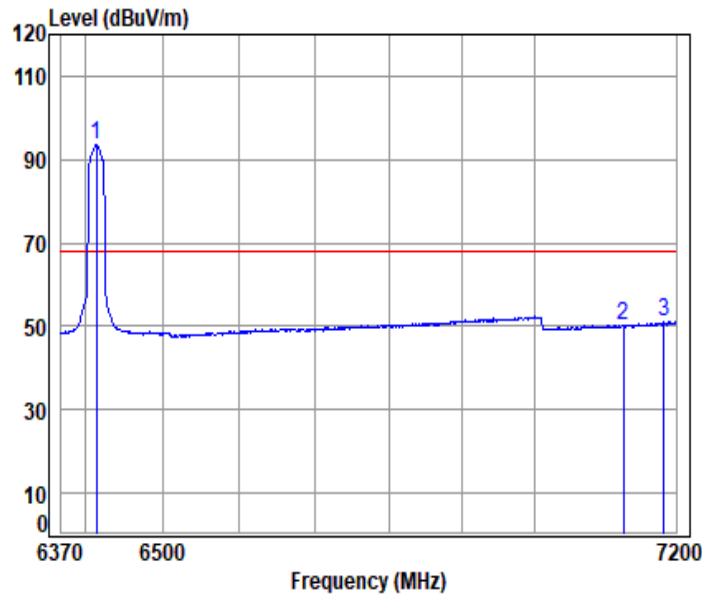
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11ax_20M_TX_CH_093_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6415 Band edge

: WIFI 6E 11AX20 MIMO

		Cable	Ant	Preamp	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	6415.000	11.00	34.80	30.79	78.71	93.72	68.20	25.52	Average
2	7125.000	11.82	36.45	31.26	33.28	50.29	68.20	-17.91	Average
3	7183.264	11.87	36.57	31.29	33.85	51.00	68.20	-17.20	Average



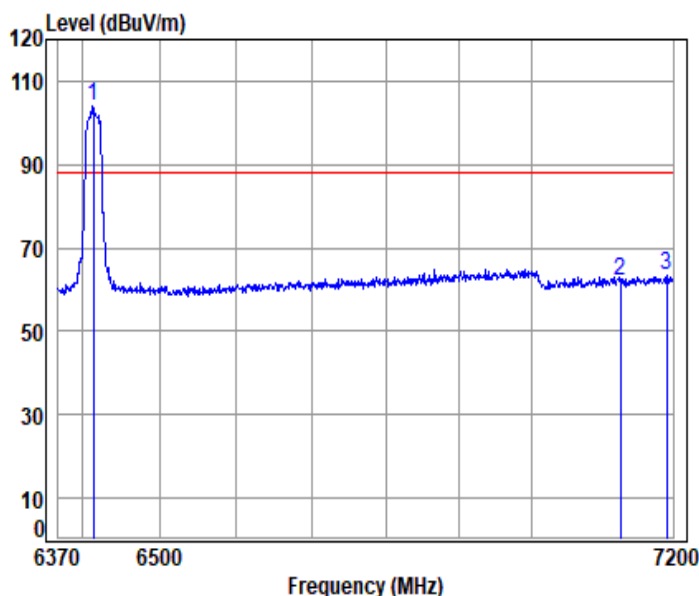
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11ax_20M_TX_CH_093_Veritical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6415 Band edge

: WIFI 6E 11AX20 MIMO

		Cable	Ant	Preamp	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	6415.000	11.00	34.80	30.79	88.83	103.84	88.20	15.64	peak
2	7125.000	11.82	36.45	31.26	44.92	61.93	88.20	-26.27	peak
3	7191.187	11.88	36.58	31.30	46.31	63.47	88.20	-24.73	peak



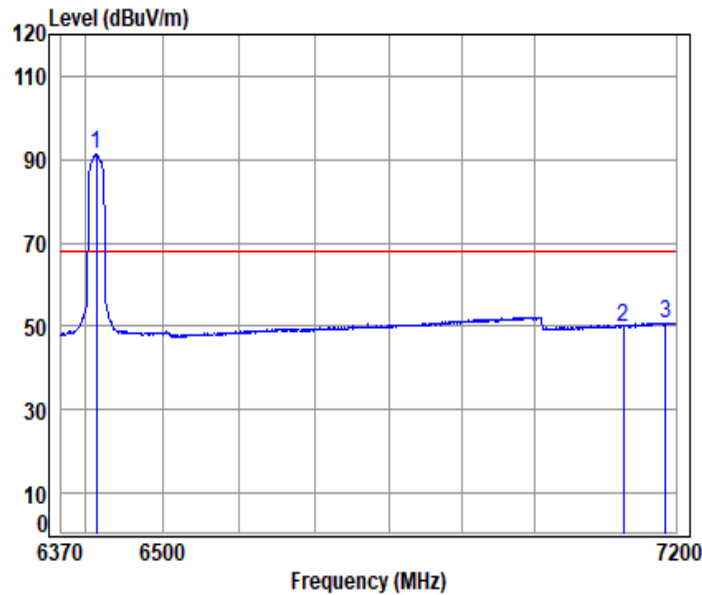
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11ax_20M_TX_CH_093_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

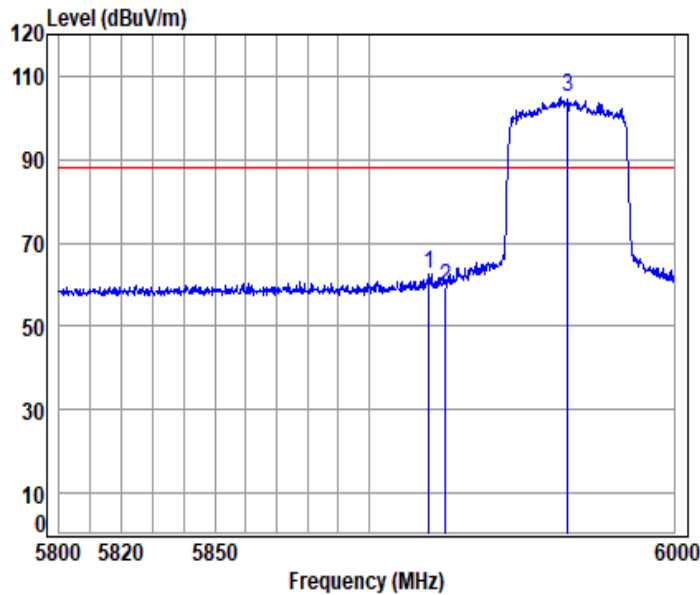
Mode : 6415 Band edge

: WIFI 6E 11AX20 MIMO

		Cable	Ant	Preamp	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	6415.000	11.00	34.80	30.79	76.34	91.35	68.20	23.15	Average
2	7125.000	11.82	36.45	31.26	32.80	49.81	68.20	-18.39	Average
3	7185.024	11.88	36.57	31.29	33.65	50.81	68.20	-17.39	Average



11ax_40M_TX_CH_003_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 5965 Band edge

: WIFI 6E 11AX40 MIMO

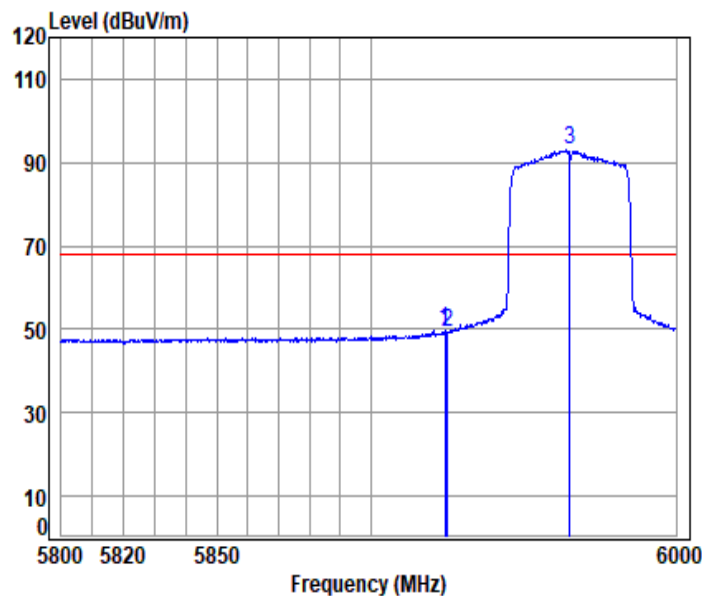
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5919.587	10.87	33.54	30.53	48.54	62.42	88.20 -25.78 peak
2	5925.000	10.87	33.55	30.53	45.26	59.15	88.20 -29.05 peak
3	pp 5965.000	10.84	33.66	30.51	90.73	104.72	88.20 16.52 peak



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11ax_40M_TX_CH_003_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 5965 Band edge

: WIFI 6E 11AX40 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5924.003	10.87	33.55	30.53	35.72	49.61	68.20	-18.59	Average
2 5925.000	10.87	33.55	30.53	35.57	49.46	68.20	-18.74	Average
3 pp 5965.000	10.84	33.66	30.51	78.93	92.92	68.20	24.72	Average



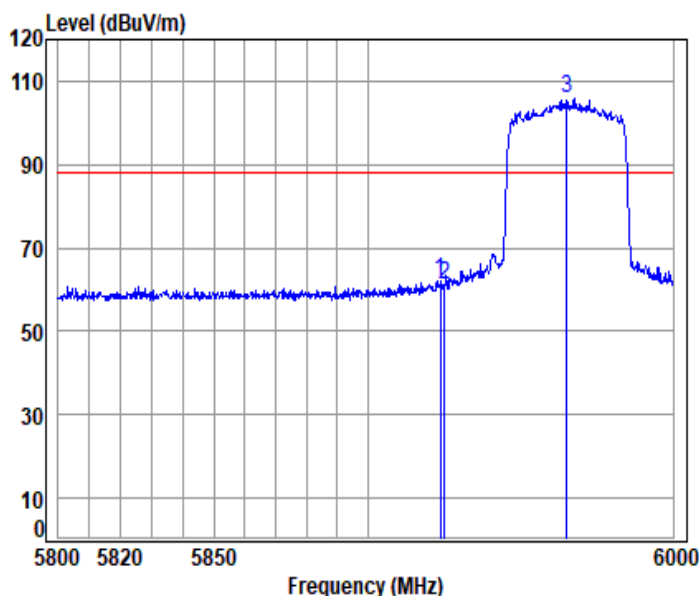
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11ax_40M_TX_CH_003_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

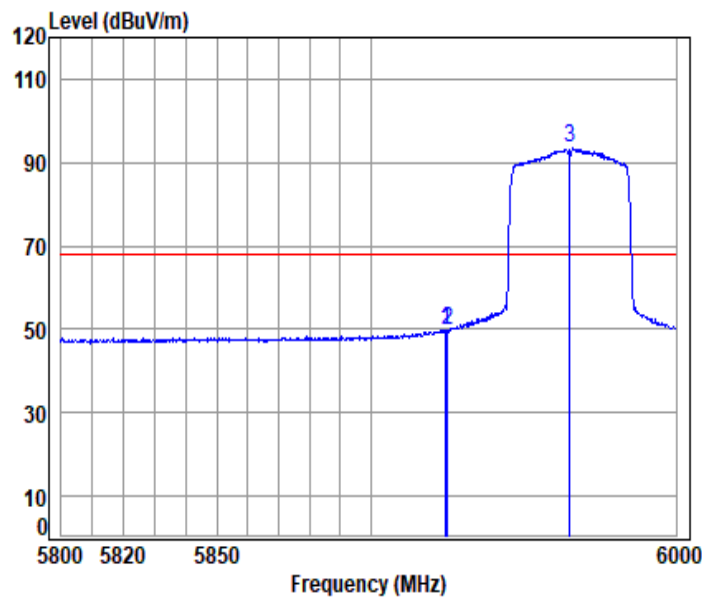
Mode : 5965 Band edge

: WIFI 6E 11AX40 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5923.401	10.87	33.55	30.53	48.31	62.20	88.20 -26.00 peak
2	5925.000	10.87	33.55	30.53	47.12	61.01	88.20 -27.19 peak
3	5965.000	10.84	33.66	30.51	91.94	105.93	88.20 17.73 peak



11ax_40M_TX_CH_003_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5965 Band edge

: WIFI 6E 11AX40 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.405	10.87	33.55	30.53	35.95	49.84	68.20	-18.36 Average
2	5925.000	10.87	33.55	30.53	35.80	49.69	68.20	-18.51 Average
3	pp 5965.000	10.84	33.66	30.51	79.50	93.49	68.20	25.29 Average



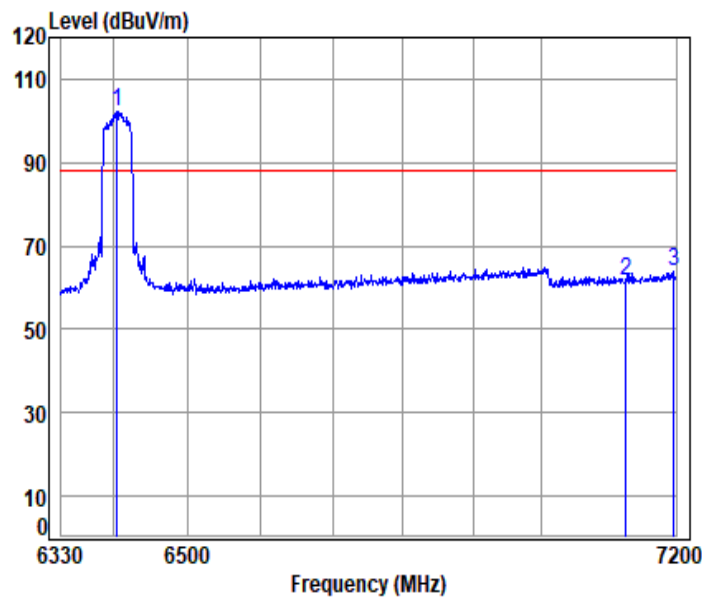
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11ax_40M_TX_CH_091_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6405 Band edge

: WIFI 6E 11AX40 MIMO

		Cable	Ant	Preamp	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 6405.000	10.99	34.80	30.78	87.25	102.26	88.20	14.06	peak
2	7125.000	11.82	36.45	31.26	44.49	61.50	88.20	-26.70	peak
3	7197.219	11.89	36.59	31.30	46.71	63.89	88.20	-24.31	peak



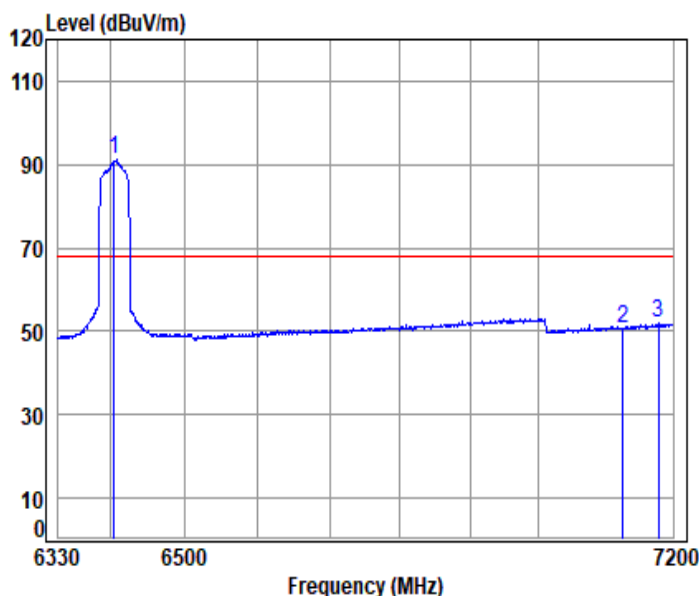
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11ax_40M_TX_CH_091_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6405 Band edge

: WIFI 6E 11AX40 MIMO

		Cable	Ant	Preamp	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	6405.000	10.99	34.80	30.78	76.09	91.10	68.20	22.90	Average
2	7125.000	11.82	36.45	31.26	33.78	50.79	68.20	-17.41	Average
3	7177.781	11.87	36.56	31.29	34.70	51.84	68.20	-16.36	Average



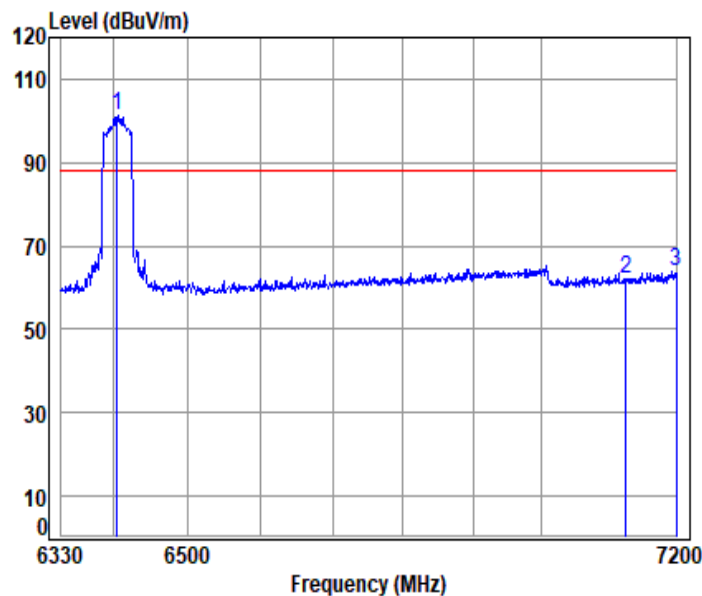
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11ax_40M_TX_CH_091_Veritical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6405 Band edge

: WIFI 6E 11AX40 MIMO

		Cable	Ant	Preamp	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	6405.000	10.99	34.80	30.78	86.09	101.10	88.20	12.90	peak
2	7125.000	11.82	36.45	31.26	45.20	62.21	88.20	-25.99	peak
3	7200.000	11.89	36.60	31.30	46.77	63.96	88.20	-24.24	peak



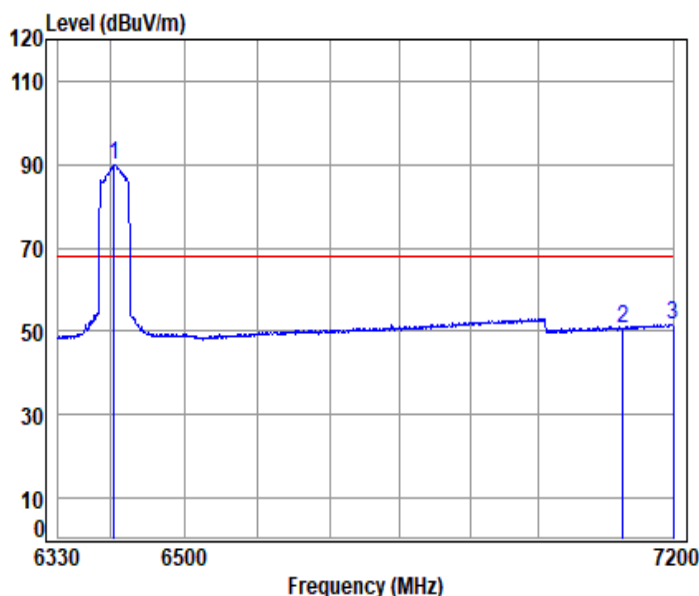
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11ax_40M_TX_CH_091_Verical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6405 Band edge

: WIFI 6E 11AX40 MIMO

		Cable	Ant	Preamp	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	6405.000	10.99	34.80	30.78	74.97	89.98	68.20	21.78	Average
2	7125.000	11.82	36.45	31.26	33.72	50.73	68.20	-17.47	Average
3	7200.000	11.89	36.60	31.30	34.57	51.76	68.20	-16.44	Average



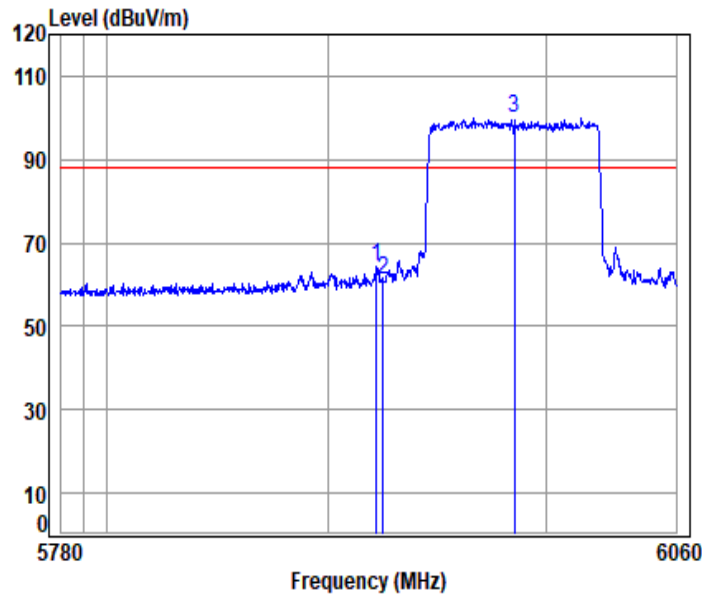
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11ax_80M_TX_CH_007_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

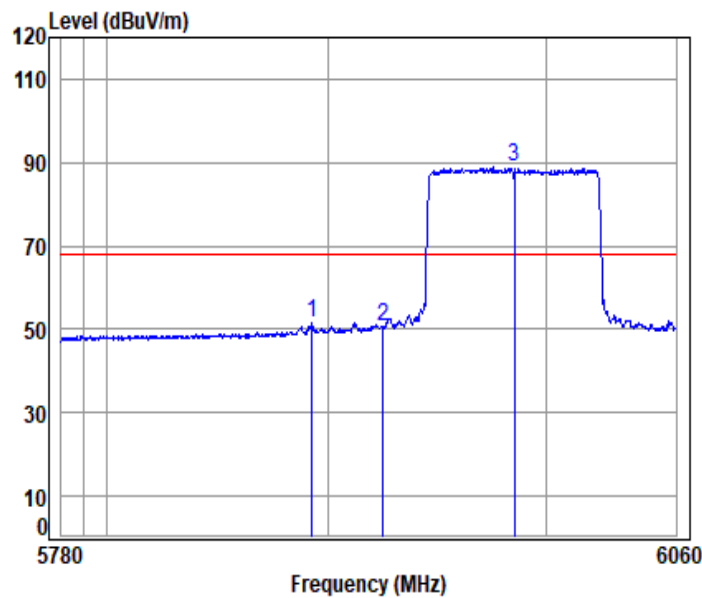
Mode : 5985 Band edge

: WIFI 6E 11AX80 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5921.985	10.87	33.54	30.53	50.33	64.21	88.20 -23.99 peak
2	5925.000	10.87	33.55	30.53	47.03	60.92	88.20 -27.28 peak
3 pp	5985.000	10.82	33.74	30.51	85.89	99.94	88.20 11.74 peak



11ax_80M_TX_CH_007_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 5985 Band edge

: WIFI 6E 11AX80 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5892.643	10.90	33.51	30.54	37.65	51.52	68.20	-16.68 Average
2	5925.000	10.87	33.55	30.53	36.87	50.76	68.20	-17.44 Average
3	pp 5985.000	10.82	33.74	30.51	74.72	88.77	68.20	20.57 Average



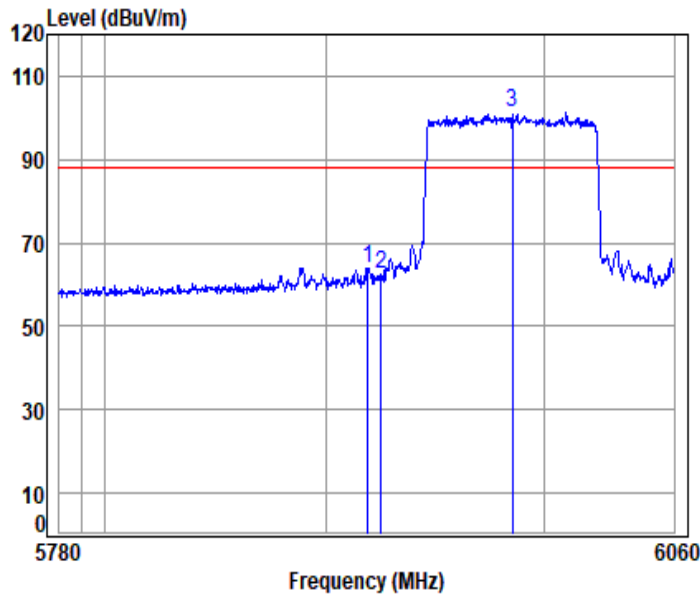
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11ax_80M_TX_CH_007_Veritical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5985 Band edge

: WIFI 6E 11AX80 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5918.904	10.87	33.54	30.53	50.21	64.09	88.20	-24.11 peak
2	5925.000	10.87	33.55	30.53	48.75	62.64	88.20	-25.56 peak
3	pp 5985.000	10.82	33.74	30.51	87.01	101.06	88.20	12.86 peak



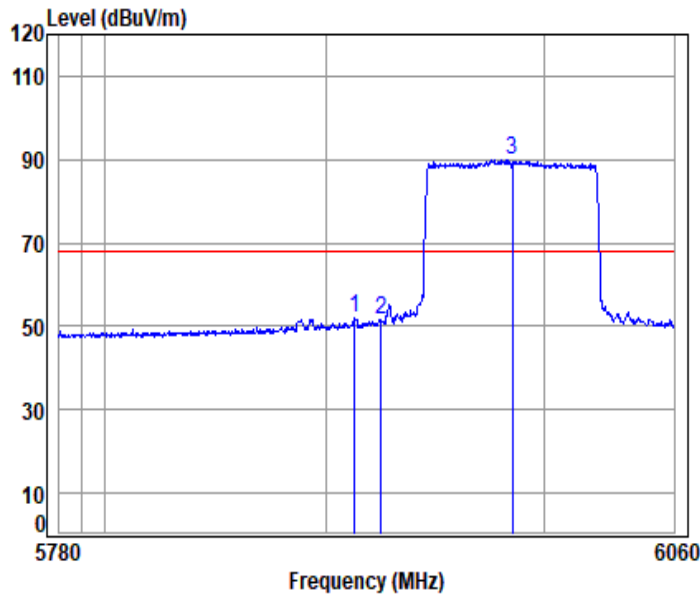
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11ax_80M_TX_CH_007_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5985 Band edge

: WIFI 6E 11AX80 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5912.748	10.88	33.53	30.53	38.02	51.90	68.20	-16.30 Average
2	5925.000	10.87	33.55	30.53	37.64	51.53	68.20	-16.67 Average
3 pp	5985.000	10.82	33.74	30.51	76.05	90.10	68.20	21.90 Average



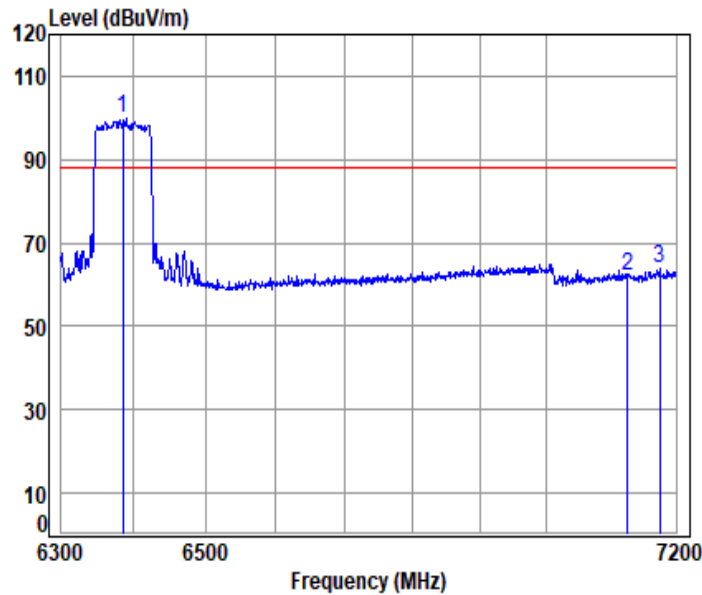
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11ax_80M_TX_CH_087_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6385 Band edge

: WIFI 6E 11AX80 MIMO

		Cable	Ant	Preamp	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	6385.000	10.99	34.77	30.77	84.71	99.70	88.20	11.50	peak
2	7125.000	11.82	36.45	31.26	44.87	61.88	88.20	-26.32	peak
3	7174.088	11.87	36.55	31.29	46.55	63.68	88.20	-24.52	peak



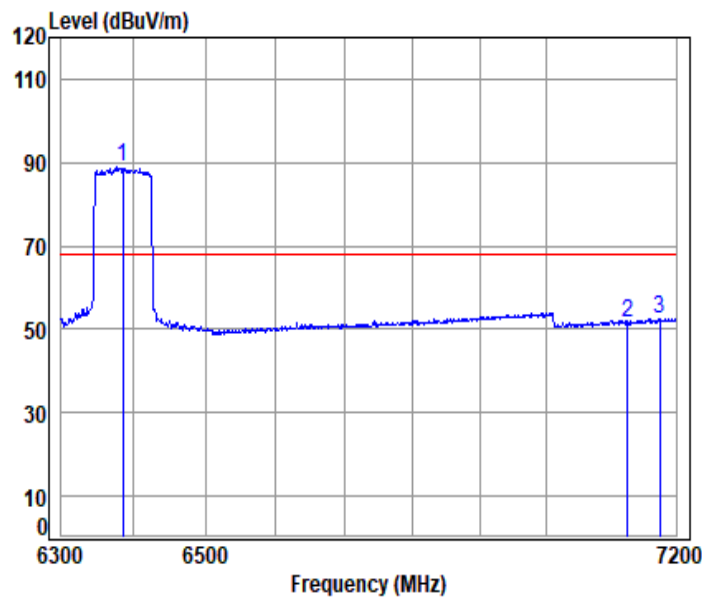
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11ax_80M_TX_CH_087_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6385 Band edge

: WIFI 6E 11AX80 MIMO

		Cable	Ant	Preamp	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	6385.000	10.99	34.77	30.77	73.87	88.86	68.20	20.66	Average
2	7125.000	11.82	36.45	31.26	34.46	51.47	68.20	-16.73	Average
3	7174.088	11.87	36.55	31.29	35.39	52.52	68.20	-15.68	Average



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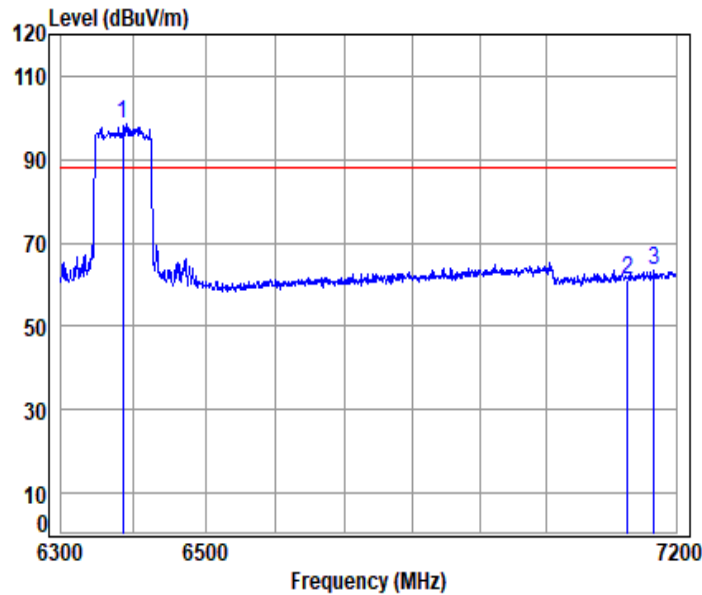
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360407

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11ax_80M_TX_CH_087_Veritical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6385 Band edge

: WIFI 6E 11AX80 MIMO

		Cable	Ant	Preamp	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	6385.000	10.99	34.77	30.77	83.43	98.42	88.20	10.22	peak
2	7125.000	11.82	36.45	31.26	44.14	61.15	88.20	-27.05	peak
3	7165.472	11.86	36.53	31.28	46.19	63.30	88.20	-24.90	peak



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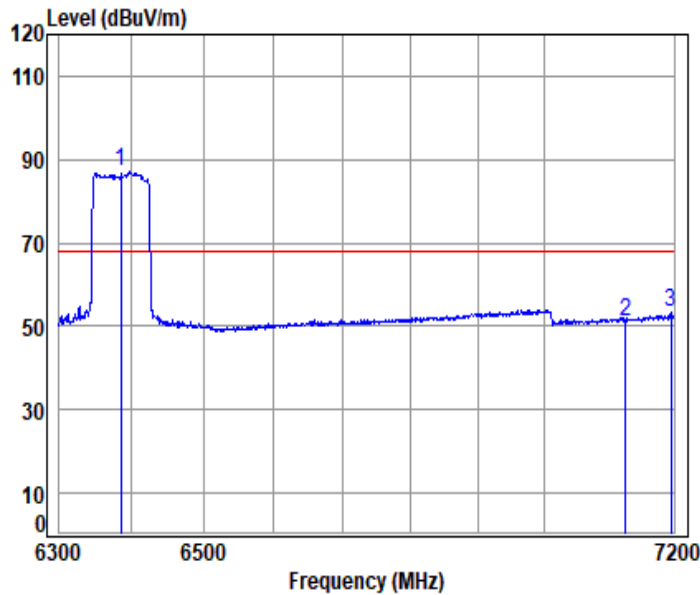
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Report No.: SZCR240900360407

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11ax_80M_TX_CH_087_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6385 Band edge

: WIFI 6E 11AX80 MIMO

		Cable	Ant	Preamp	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	6385.000	10.99	34.77	30.77	72.03	87.02	68.20	18.82	Average
2	7125.000	11.82	36.45	31.26	34.26	51.27	68.20	-16.93	Average
3	7195.194	11.89	36.59	31.30	36.04	53.22	68.20	-14.98	Average



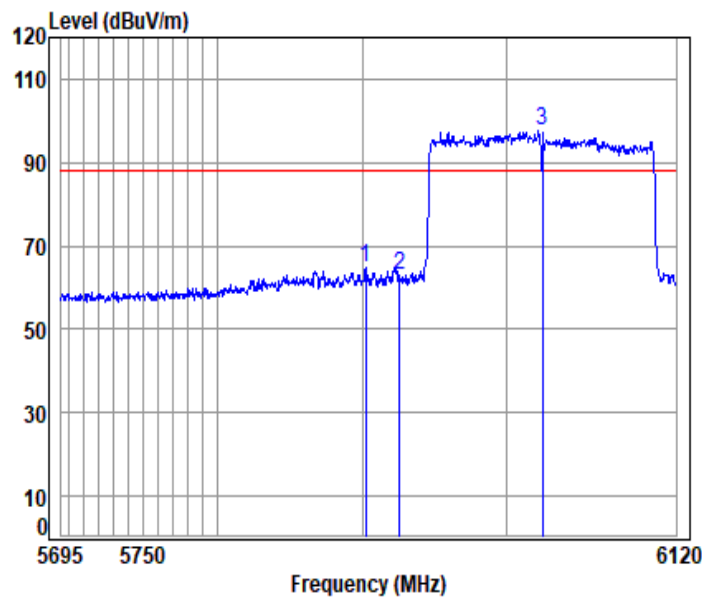
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11ax_160M_TX_CH_015_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6025 Band edge

: WIFI 6E 11AX160 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5901.553	10.89	33.50	30.54	50.85	64.70	88.20 -23.50 peak
2	5925.000	10.87	33.55	30.53	48.90	62.79	88.20 -25.41 peak
3	pp 6025.000	10.82	33.85	30.52	83.38	97.53	88.20 9.33 peak



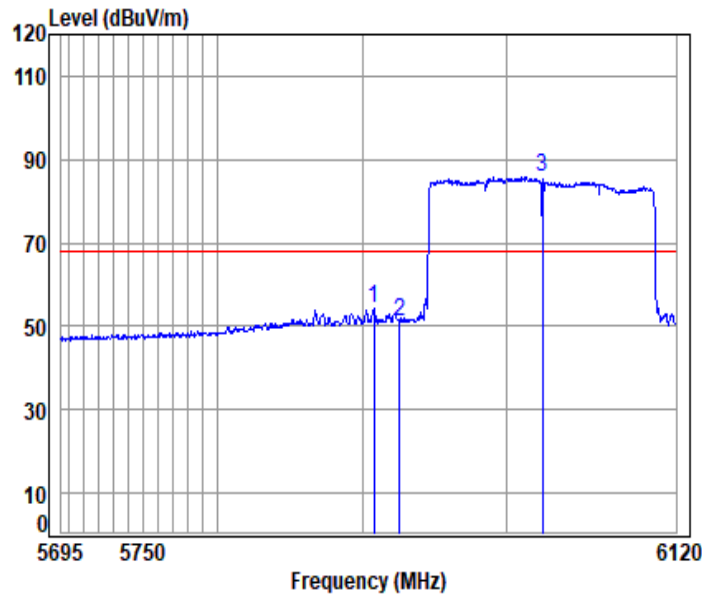
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Report No.: SZCR240900360407

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11ax_160M_TX_CH_015_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6025 Band edge

: WIFI 6E 11AX160 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5907.502	10.88	33.52	30.54	40.25	54.11	68.20	-14.09 Average
2	5925.000	10.87	33.55	30.53	37.16	51.05	68.20	-17.15 Average
3	pp 6025.000	10.82	33.85	30.52	71.55	85.70	68.20	17.50 Average



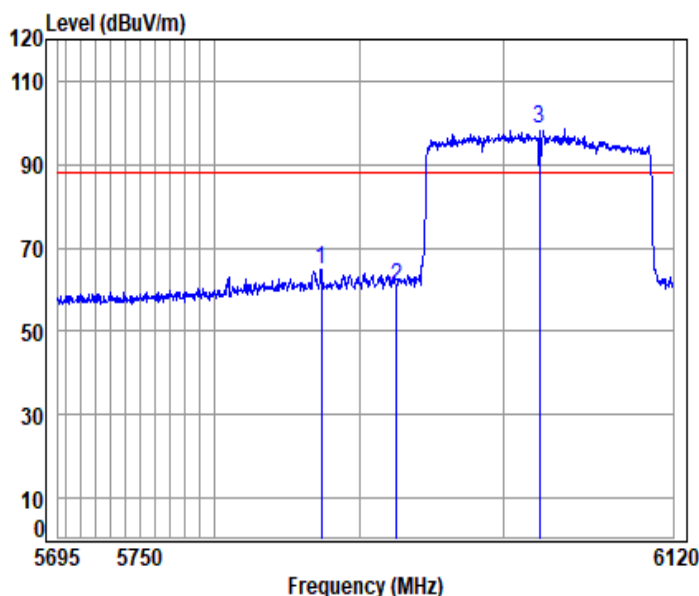
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11ax_160M_TX_CH_015_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6025 Band edge

: WIFI 6E 11AX160 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5873.163	10.92	33.55	30.55	50.87	64.79	88.20 -23.41 peak
2	5925.000	10.87	33.55	30.53	46.78	60.67	88.20 -27.53 peak
3	pp 6025.000	10.82	33.85	30.52	84.23	98.38	88.20 10.18 peak



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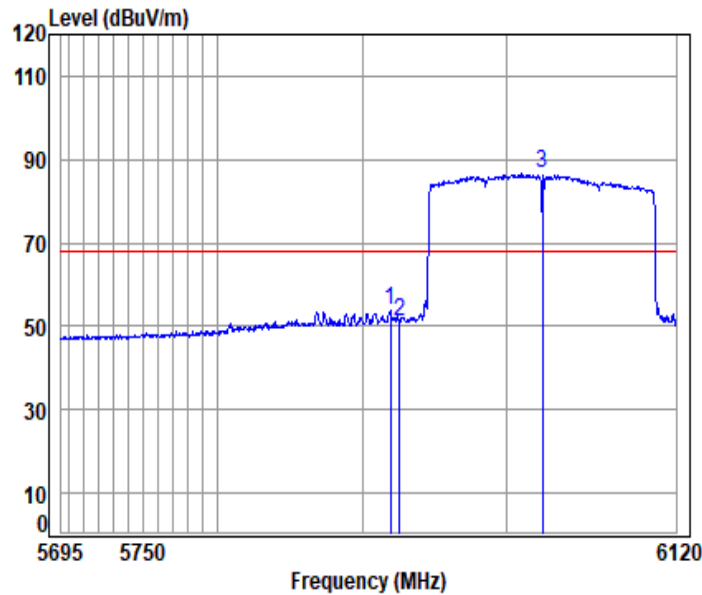
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SZEMC-TRF-01 Rev. A/1

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11ax_160M_TX_CH_015_Verical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6025 Band edge

: WIFI 6E 11AX160 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5918.567	10.88	33.54	30.53	39.82	53.71	68.20	-14.49 Average
2	5925.000	10.87	33.55	30.53	37.28	51.17	68.20	-17.03 Average
3	pp 6025.000	10.82	33.85	30.52	72.47	86.62	68.20	18.42 Average



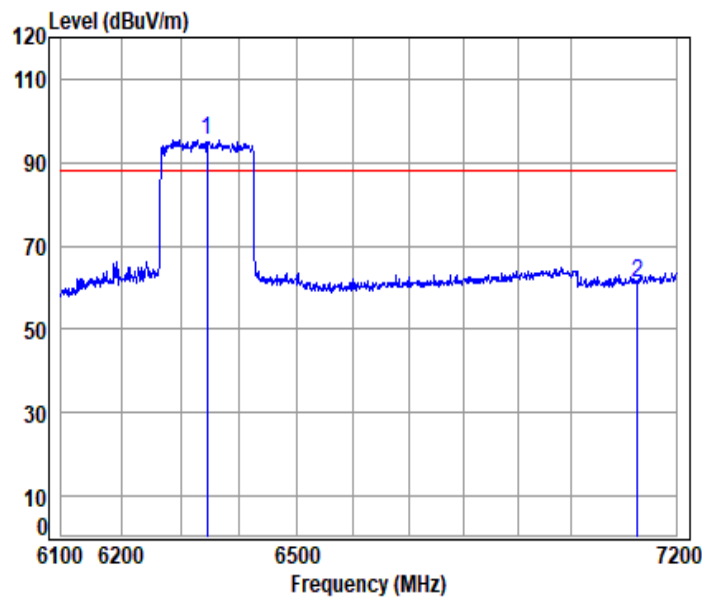
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11ax_160M_TX_CH_079_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

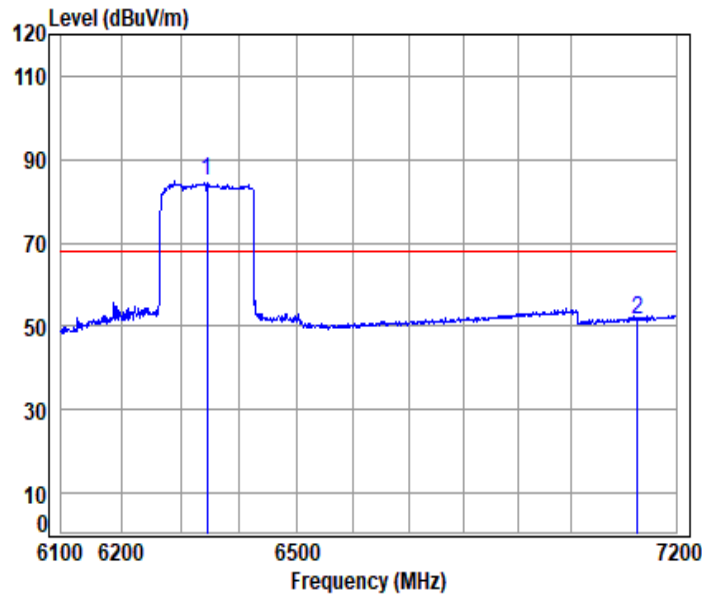
Mode : 6345 Band edge

: WIFI 6E 11AX160 MIMO

		Cable	Ant	Preamp	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	6345.000	11.02	34.69	30.74	80.48	95.45	88.20	7.25	peak
2	7125.000	11.82	36.45	31.26	44.22	61.23	88.20	-26.97	peak
3	7200.000	11.89	36.60	31.30	46.53	63.72	88.20	-24.48	peak



11ax_160M_TX_CH_079_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6345 Band edge

: WIFI 6E 11AX160 MIMO

		Cable	Ant	Preamp	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	6345.000	11.02	34.69	30.74	69.71	84.68	68.20	16.48 Average
2	7125.000	11.82	36.45	31.26	34.71	51.72	68.20	-16.48 Average
3	7200.000	11.89	36.60	31.30	35.57	52.76	68.20	-15.44 Average



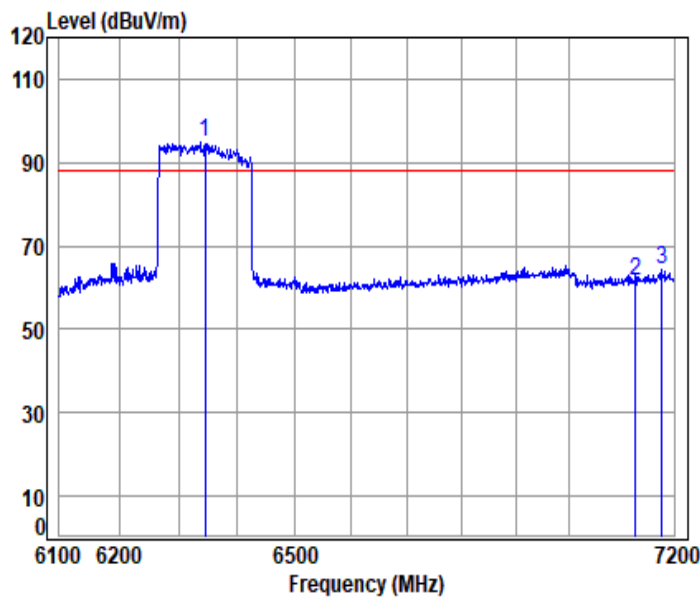
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11ax_160M_TX_CH_079_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

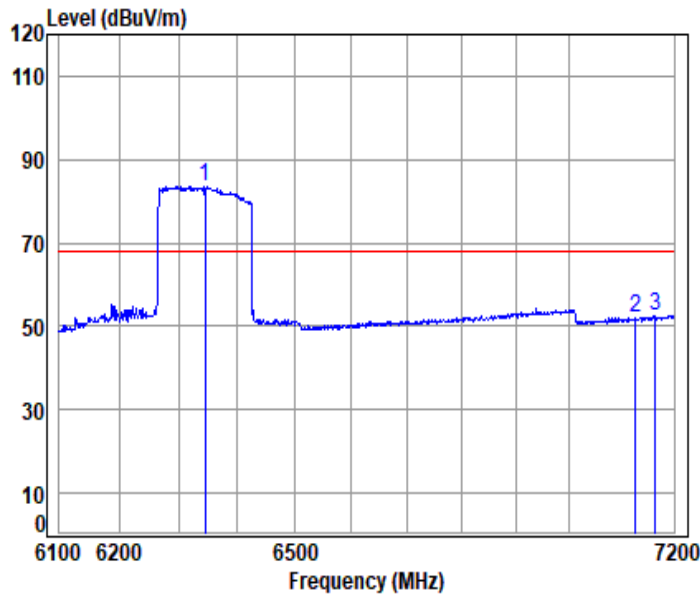
Mode : 6345 Band edge

: WIFI 6E 11AX160 MIMO

		Cable	Ant	Preamp	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	6345.000	11.02	34.69	30.74	79.73	94.70	88.20	6.50	peak
2	7125.000	11.82	36.45	31.26	44.59	61.60	88.20	-26.60	peak
3	7177.355	11.87	36.55	31.29	47.13	64.26	88.20	-23.94	peak



11ax_160M_TX_CH_079_Verical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6345 Band edge

: WIFI 6E 11AX160 MIMO

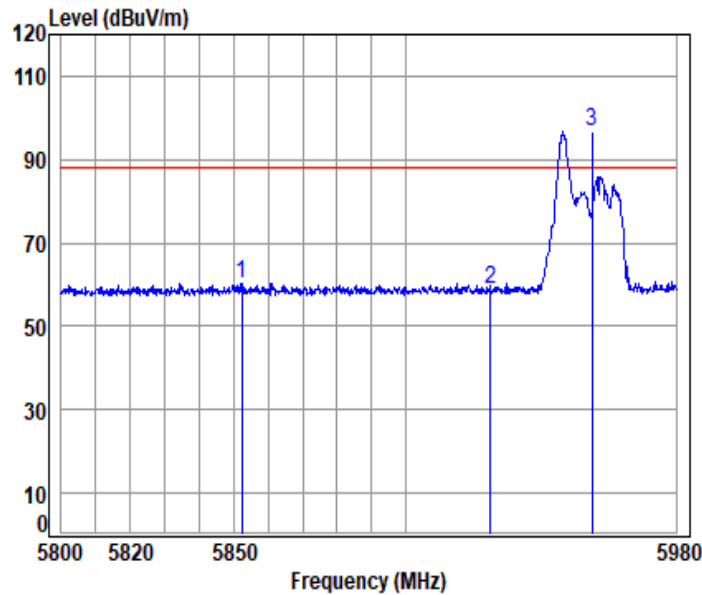
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	6345.000	11.02	34.69	30.74	68.46	83.43	68.20	15.23 Average
2	7125.000	11.82	36.45	31.26	34.78	51.79	68.20	-16.41 Average
3	7163.090	11.86	36.53	31.28	35.52	52.63	68.20	-15.57 Average



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11ax_20M_Partial_RU26_TX_CH_001_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 5955 Band edge

: WIFI 6E 11AX20_RU26 MIMO

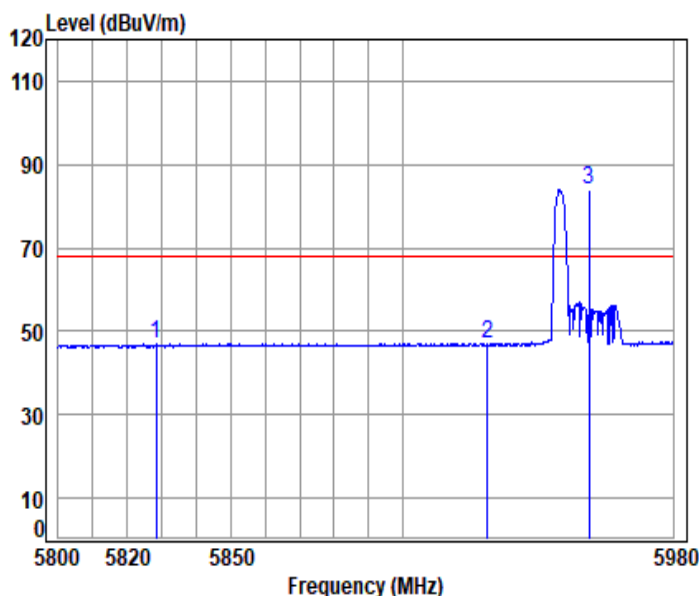
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5852.350	10.95	33.60	30.56	46.45	60.44	88.20 -27.76 peak
2	5925.000	10.87	33.55	30.53	44.98	58.87	88.20 -29.33 peak
3 pp	5955.000	10.85	33.62	30.52	82.70	96.65	88.20 8.45 peak



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11ax_20M_Partial_RU26_TX_CH_001_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 5955 Band edge

: WIFI 6E 11AX20_RU26 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5828.253	10.98	33.51	30.57	33.29	47.21	68.20 -20.99 Average
2	5925.000	10.87	33.55	30.53	32.96	46.85	68.20 -21.35 Average
3 pp	5955.000	10.85	33.62	30.52	69.81	83.76	68.20 15.56 Average



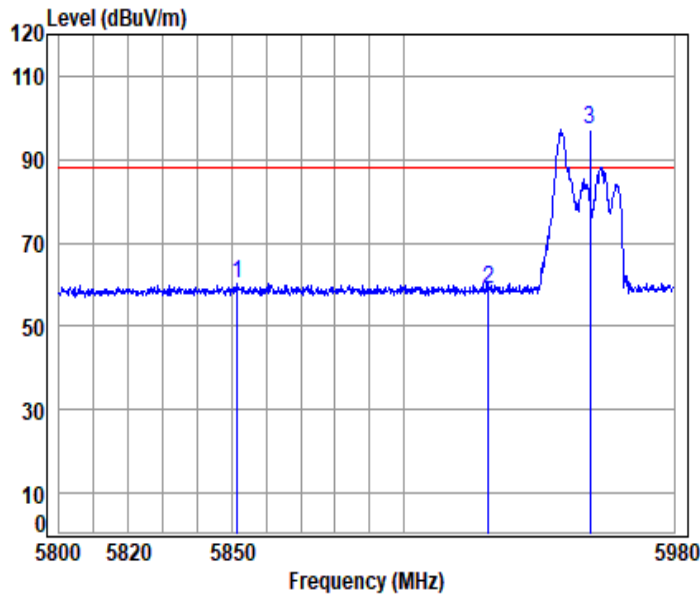
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11ax_20M_Partial_RU26_TX_CH_001_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

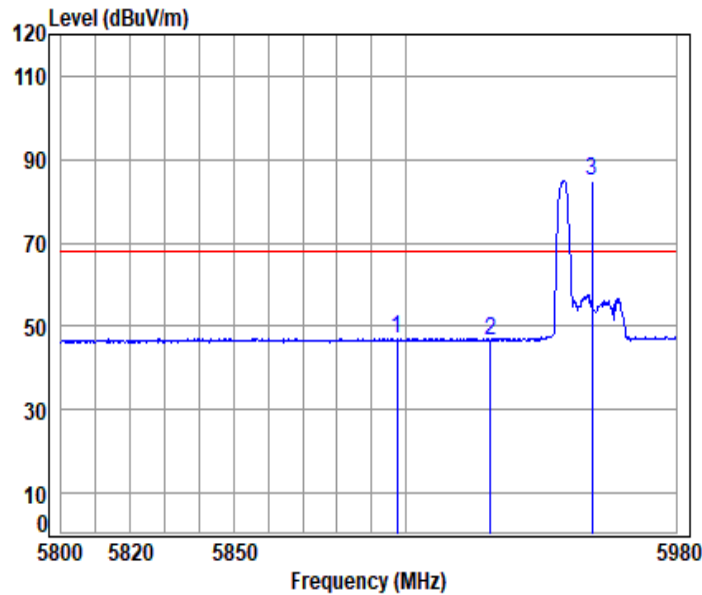
Mode : 5955 Band edge

: WIFI 6E 11AX20_RU26 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5851.635	10.95	33.60	30.56	46.33	60.32	88.20 -27.88 peak
2	5925.000	10.87	33.55	30.53	44.82	58.71	88.20 -29.49 peak
3 pp	5955.000	10.85	33.62	30.52	83.07	97.02	88.20 8.82 peak



11ax_20M_Partial_RU26_TX_CH_001_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5955 Band edge

: WIFI 6E 11AX20_RU26 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5897.778	10.89	33.50	30.54	33.30	47.15	68.20 -21.05 Average
2	5925.000	10.87	33.55	30.53	32.73	46.62	68.20 -21.58 Average
3 pp	5955.000	10.85	33.62	30.52	71.07	85.02	68.20 16.82 Average



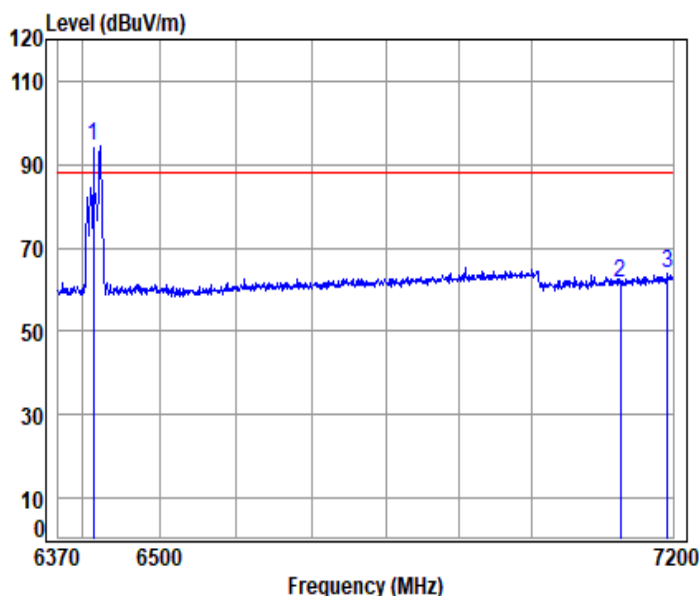
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11ax_20M_Partial_RU26_TX_CH_093_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6415 Band edge

: WIFI 6E 11AX20_RU26 MIMO

		Cable	Ant	Preamp	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	6415.000	11.00	34.80	30.79	79.45	94.46	88.20	6.26	peak
2	7125.000	11.82	36.45	31.26	44.71	61.72	88.20	-26.48	peak
3	7192.067	11.88	36.58	31.30	46.85	64.01	88.20	-24.19	peak



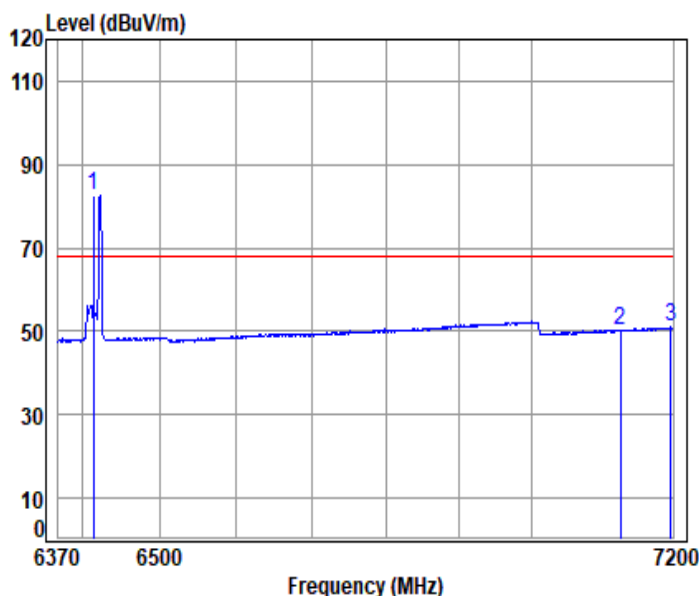
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11ax_20M_Partial_RU26_TX_CH_093_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6415 Band edge

: WIFI 6E 11AX20_RU26 MIMO

		Cable	Ant	Preamp	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	6415.000	11.00	34.80	30.79	67.80	82.81	68.20	14.61	Average
2	7125.000	11.82	36.45	31.26	33.21	50.22	68.20	-17.98	Average
3	7196.474	11.89	36.59	31.30	33.77	50.95	68.20	-17.25	Average



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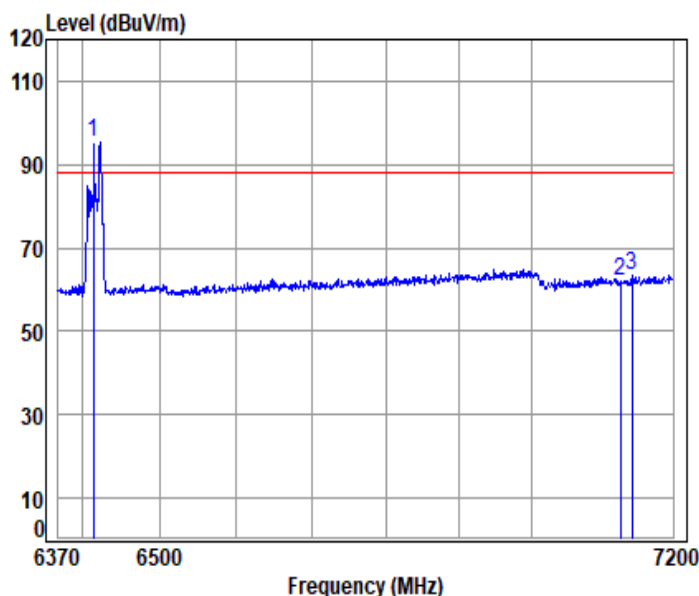
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11ax_20M_Partial_RU26_TX_CH_093_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6415 Band edge

: WIFI 6E 11AX20_RU26 MIMO

		Cable	Ant	Preamp	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 6415.000	11.00	34.80	30.79	80.58	95.59	88.20	7.39	peak
2	7125.000	11.82	36.45	31.26	44.95	61.96	88.20	-26.24	peak
3	7141.157	11.84	36.48	31.27	46.35	63.40	88.20	-24.80	peak



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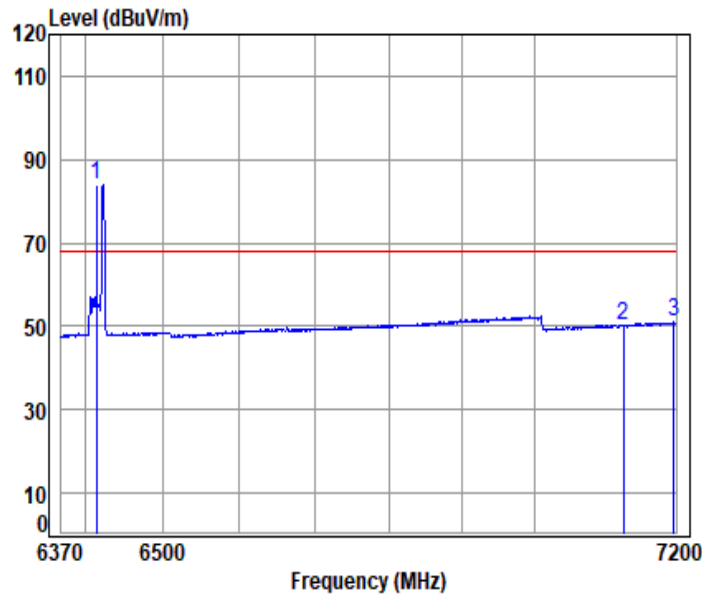
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Report No.: SZCR240900360407

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11ax_20M_Partial_RU26_TX_CH_093_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6415 Band edge

: WIFI 6E 11AX20_RU26 MIMO

	Cable	Ant	Preamp	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 6415.000	11.00	34.80	30.79	69.13	84.14	68.20	15.94	Average
2 7125.000	11.82	36.45	31.26	32.99	50.00	68.20	-18.20	Average
3 7197.355	11.89	36.59	31.30	33.73	50.91	68.20	-17.29	Average



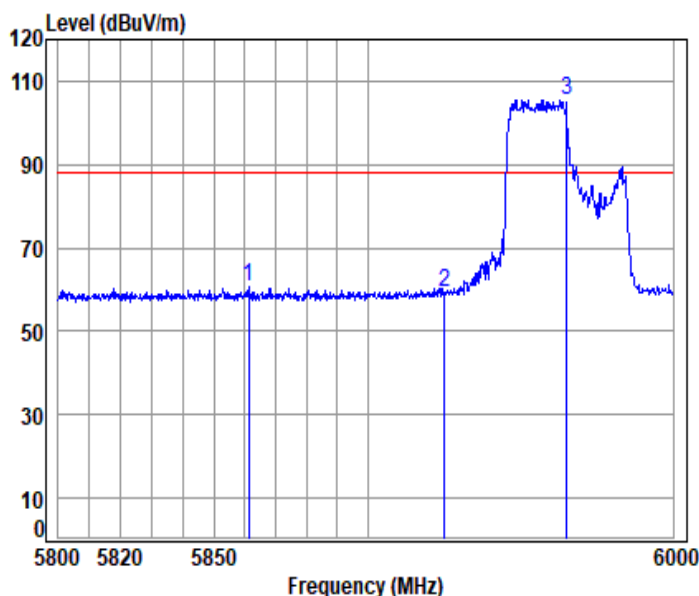
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11ax_40M_Partial_RU242_TX_CH_003_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 5965 Band edge

: WIFI 6E 11AX40_RU242 MIMO

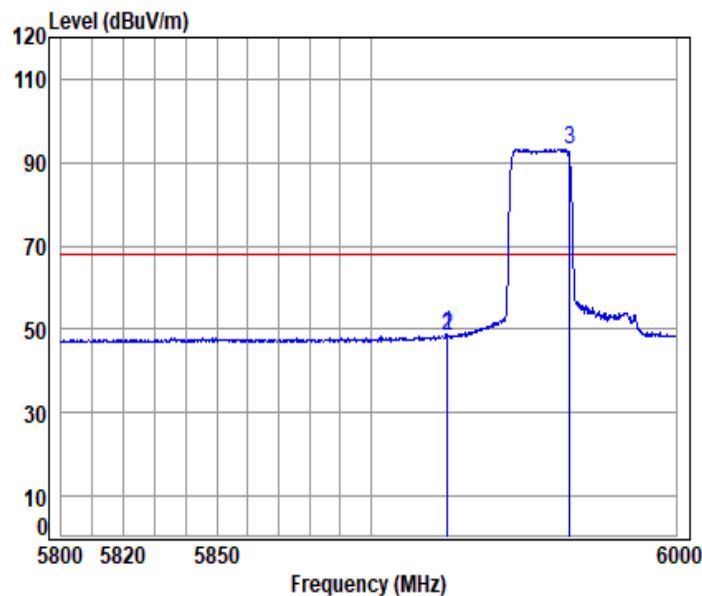
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5861.276	10.94	33.58	30.56	46.74	60.70	88.20 -27.50 peak
2	5925.000	10.87	33.55	30.53	45.40	59.29	88.20 -28.91 peak
3 pp	5965.000	10.84	33.66	30.51	91.54	105.53	88.20 17.33 peak



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11ax_40M_Partial_RU242_TX_CH_003_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 5965 Band edge

: WIFI 6E 11AX40_RU242 MIMO

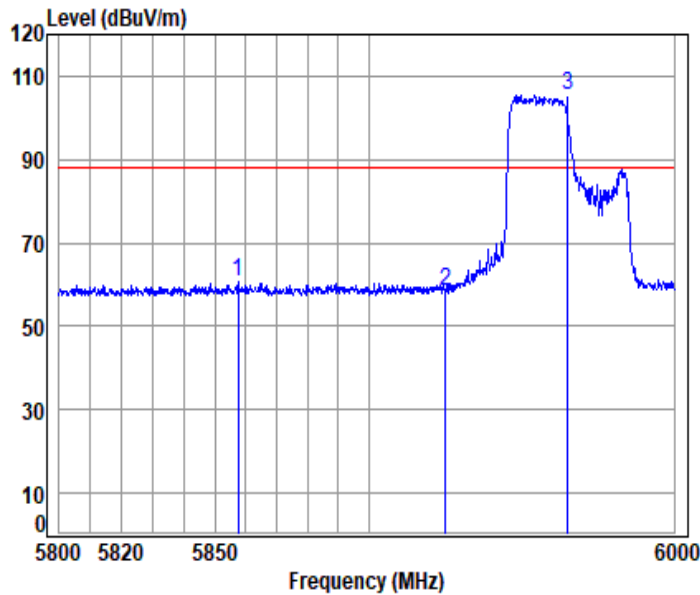
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.807	10.87	33.55	30.53	34.82	48.71	68.20	-19.49 Average
2	5925.000	10.87	33.55	30.53	34.32	48.21	68.20	-19.99 Average
3	pp 5965.000	10.84	33.66	30.51	79.23	93.22	68.20	25.02 Average



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11ax_40M_Partial_RU242_TX_CH_003_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

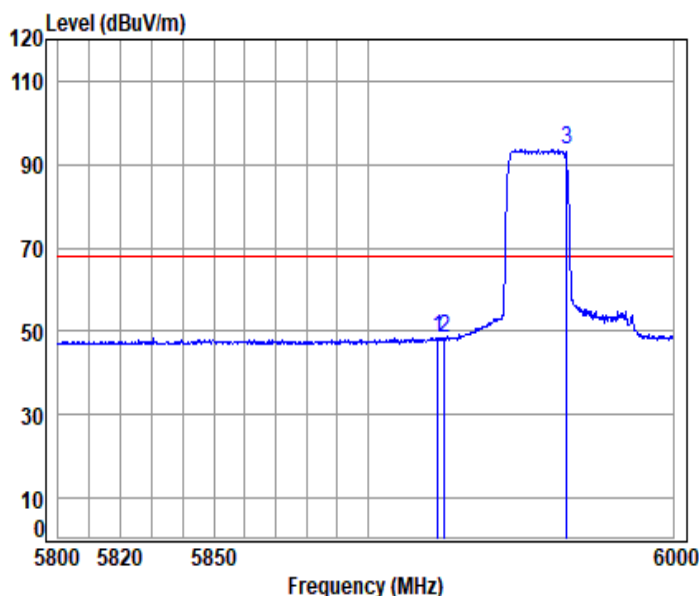
Mode : 5965 Band edge

: WIFI 6E 11AX40_RU242 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5857.502	10.95	33.58	30.56	46.94	60.91	88.20	-27.29 peak
2	5925.000	10.87	33.55	30.53	44.33	58.22	88.20	-29.98 peak
3	pp 5965.000	10.84	33.66	30.51	91.42	105.41	88.20	17.21 peak



11ax_40M_Partial_RU242_TX_CH_003_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5965 Band edge

: WIFI 6E 11AX40_RU242 MIMO

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5922.799	10.87	33.55	30.53	34.58	48.47	68.20	-19.73 Average
2	5925.000	10.87	33.55	30.53	34.25	48.14	68.20	-20.06 Average
3	pp 5965.000	10.84	33.66	30.51	79.69	93.68	68.20	25.48 Average



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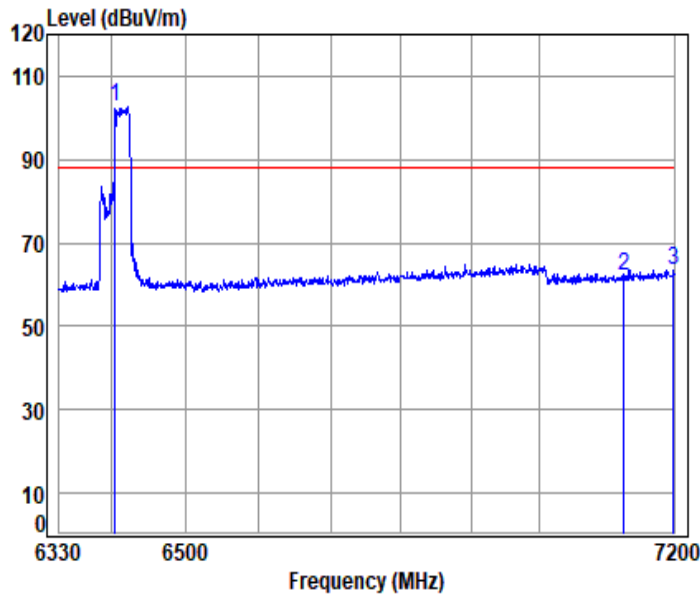
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11ax_40M_Partial_RU242_TX_CH_091_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6405 Band edge

: WIFI 6E 11AX40_RU242 MIMO

		Cable	Ant	Preamp	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	6405.000	10.99	34.80	30.78	87.69	102.70	88.20	14.50	peak
2	7125.000	11.82	36.45	31.26	45.01	62.02	88.20	-26.18	peak
3	7199.073	11.89	36.60	31.30	46.25	63.44	88.20	-24.76	peak



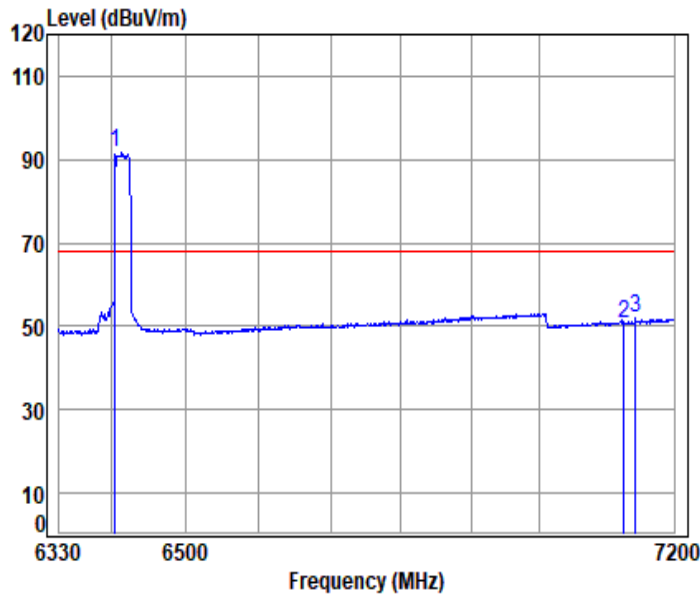
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11ax_40M_Partial_RU242_TX_CH_091_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6405 Band edge

: WIFI 6E 11AX40_RU242 MIMO

		Cable	Ant	Preamp	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 6405.000	10.99	34.80	30.78	76.73	91.74	68.20	23.54	Average
2	7125.000	11.82	36.45	31.26	33.57	50.58	68.20	-17.62	Average
3	7141.821	11.84	36.48	31.27	35.07	52.12	68.20	-16.08	Average

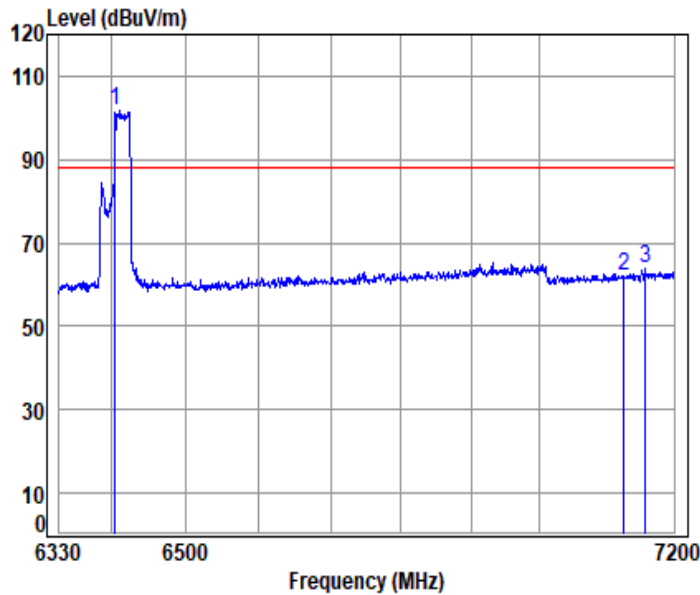
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11ax_40M_Partial_RU242_TX_CH_091_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6405 Band edge

: WIFI 6E 11AX40_RU242 MIMO

		Cable	Ant	Preamp	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	6405.000	10.99	34.80	30.78	86.92	101.93	88.20	13.73	peak
2	7125.000	11.82	36.45	31.26	44.96	61.97	88.20	-26.23	peak
3	7156.552	11.85	36.51	31.28	46.61	63.69	88.20	-24.51	peak



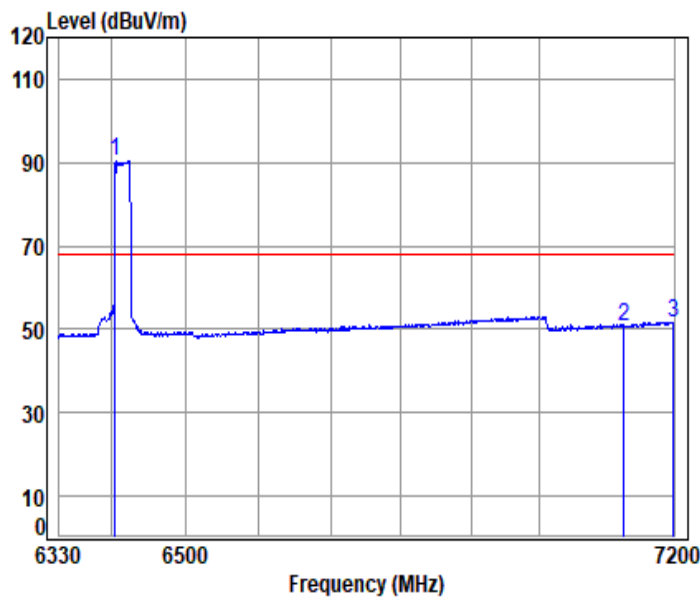
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11ax_40M_Partial_RU242_TX_CH_091_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

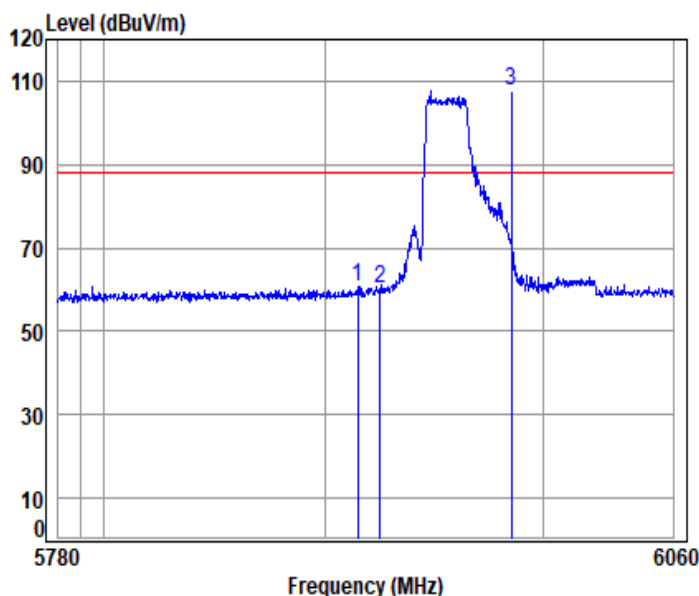
Mode : 6405 Band edge

: WIFI 6E 11AX40_RU242 MIMO

		Cable	Ant	Preamp	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	6405.000	10.99	34.80	30.78	75.32	90.33	68.20	22.13	Average
2	7125.000	11.82	36.45	31.26	33.55	50.56	68.20	-17.64	Average
3	7199.073	11.89	36.60	31.30	34.53	51.72	68.20	-16.48	Average



11ax_80M_Partial_RU242_TX_CH_007_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

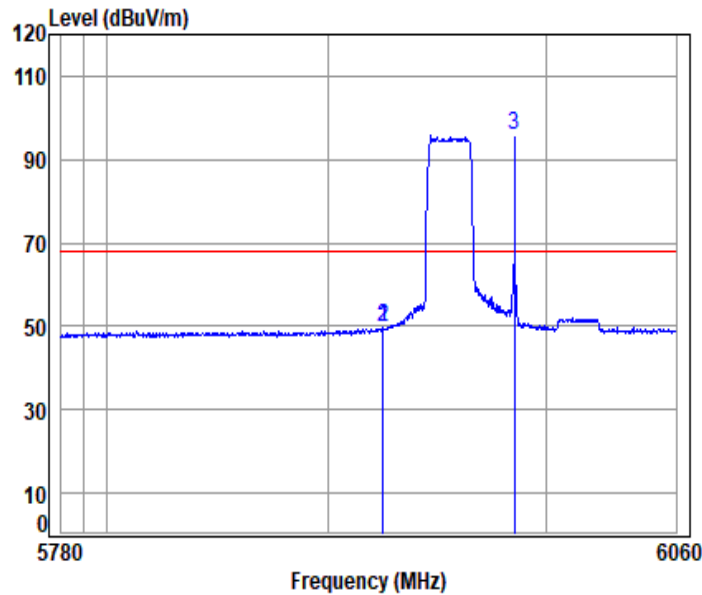
Mode : 5985 Band edge

: WIFI 6E 11AX80_RU242 MIMO

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5914.706	10.88	33.53	30.53	46.99	60.87	88.20	-27.33 peak
2	5925.000	10.87	33.55	30.53	46.45	60.34	88.20	-27.86 peak
3	pp 5985.000	10.82	33.74	30.51	93.45	107.50	88.20	19.30 peak



11ax_80M_Partial_RU242_TX_CH_007_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

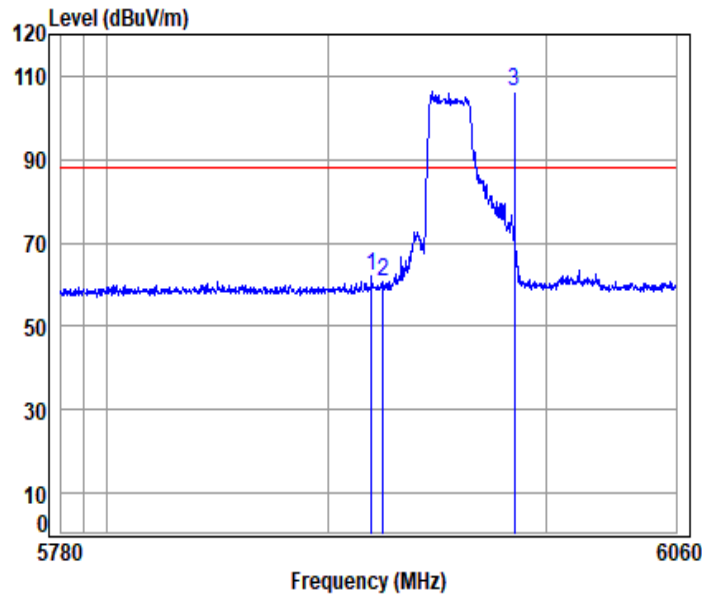
Mode : 5985 Band edge

: WIFI 6E 11AX80_RU242 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5925.000	10.87	33.55	30.53	35.64	49.53	68.20	-18.67 Average
2 5925.067	10.87	33.55	30.53	35.64	49.53	68.20	-18.67 Average
3 pp 5985.000	10.82	33.74	30.51	81.72	95.77	68.20	27.57 Average



11ax_80M_Partial_RU242_TX_CH_007_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

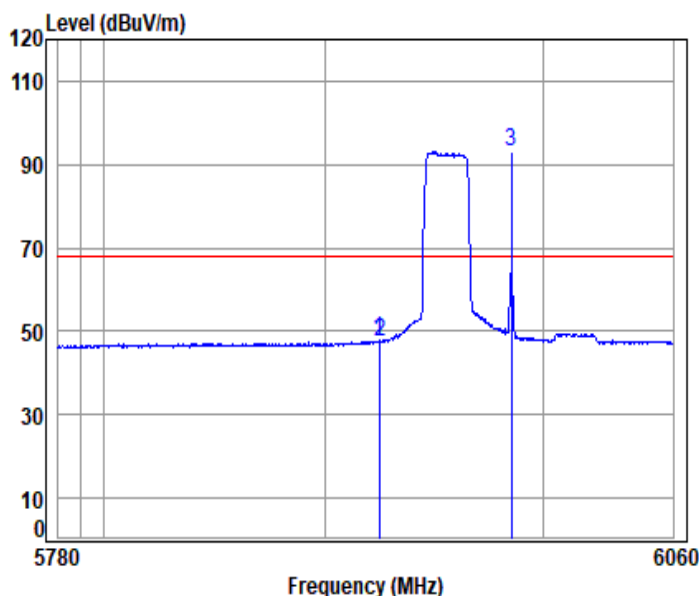
Mode : 5985 Band edge

: WIFI 6E 11AX80_RU242 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5919.745	10.87	33.54	30.53	48.14	62.02	88.20 -26.18 peak
2	5925.000	10.87	33.55	30.53	46.88	60.77	88.20 -27.43 peak
3	pp 5985.000	10.82	33.74	30.51	92.06	106.11	88.20 17.91 peak



11ax_80M_Partial_RU242_TX_CH_007_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 5985 Band edge

: WIFI 6E 11AX80_RU242 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.507	10.87	33.55	30.53	33.94	47.83	68.20	-20.37 Average
2	5925.000	10.87	33.55	30.53	33.76	47.65	68.20	-20.55 Average
3	pp 5985.000	10.82	33.74	30.51	79.17	93.22	68.20	25.02 Average



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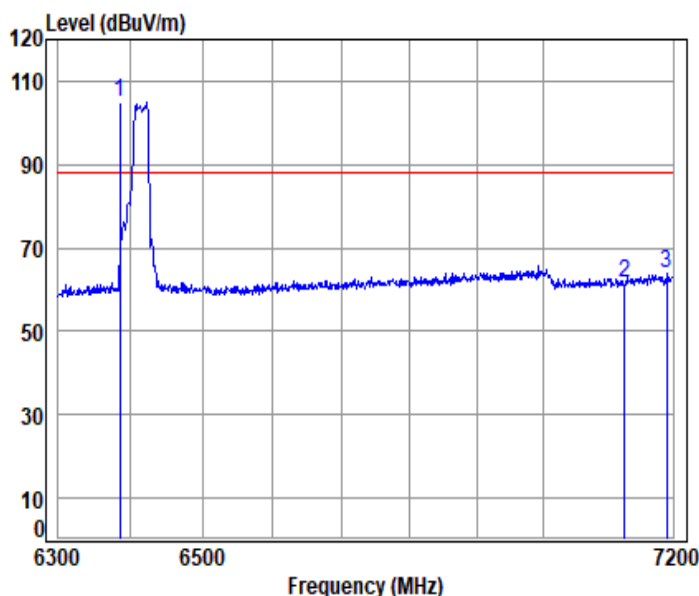
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360407

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11ax_80M_Partial_RU242_TX_CH_087_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6385 Band edge

: WIFI 6E 11AX80_RU242 MIMO

		Cable	Ant	Preamp	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	6385.000	10.99	34.77	30.77	89.87	104.86	88.20	16.66	peak
2	7125.000	11.82	36.45	31.26	44.52	61.53	88.20	-26.67	peak
3	7190.392	11.88	36.58	31.30	46.55	63.71	88.20	-24.49	peak



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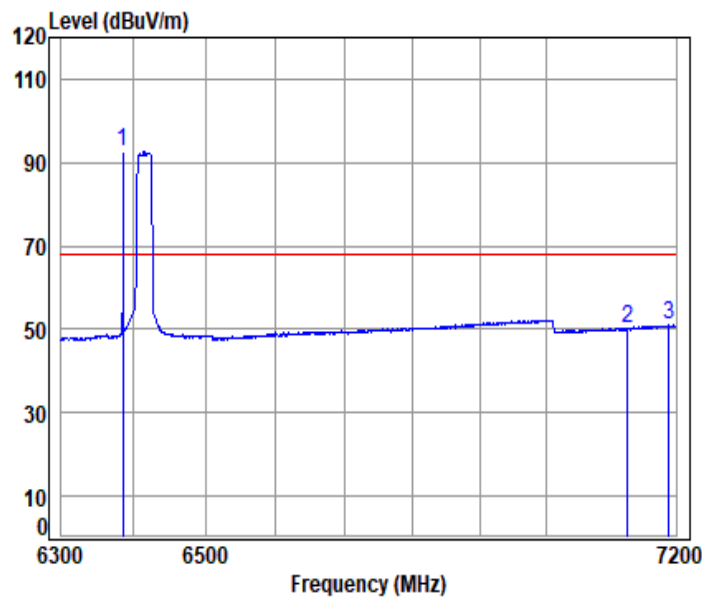
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Report No.: SZCR240900360407

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11ax_80M_Partial_RU242_TX_CH_087_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6385 Band edge

: WIFI 6E 11AX80_RU242 MIMO

		Cable	Ant	Preamp	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	6385.000	10.99	34.77	30.77	77.75	92.74	68.20	24.54	Average
2	7125.000	11.82	36.45	31.26	33.00	50.01	68.20	-18.19	Average
3	7189.432	11.88	36.58	31.29	33.85	51.02	68.20	-17.18	Average



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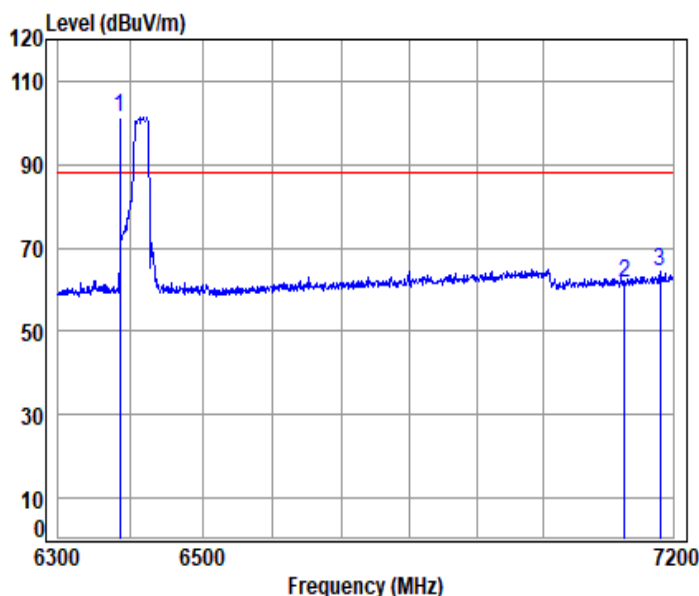
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11ax_80M_Partial_RU242_TX_CH_087_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6385 Band edge

: WIFI 6E 11AX80_RU242 MIMO

		Cable	Ant	Preamp	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 6385.000	10.99	34.77	30.77	86.38	101.37	88.20	13.17	peak
2	7125.000	11.82	36.45	31.26	44.71	61.72	88.20	-26.48	peak
3	7179.838	11.87	36.56	31.29	47.18	64.32	88.20	-23.88	peak



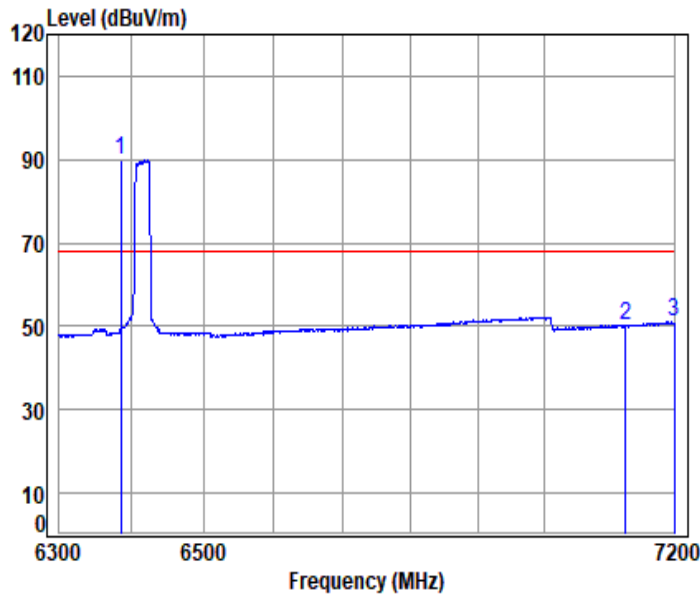
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11ax_80M_Partial_RU242_TX_CH_087_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6385 Band edge

: WIFI 6E 11AX80_RU242 MIMO

	Cable	Ant	Preamp	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 6385.000	10.99	34.77	30.77	74.75	89.74	68.20	21.54 Average
2 7125.000	11.82	36.45	31.26	33.20	50.21	68.20	-17.99 Average
3 7200.000	11.89	36.60	31.30	33.99	51.18	68.20	-17.02 Average



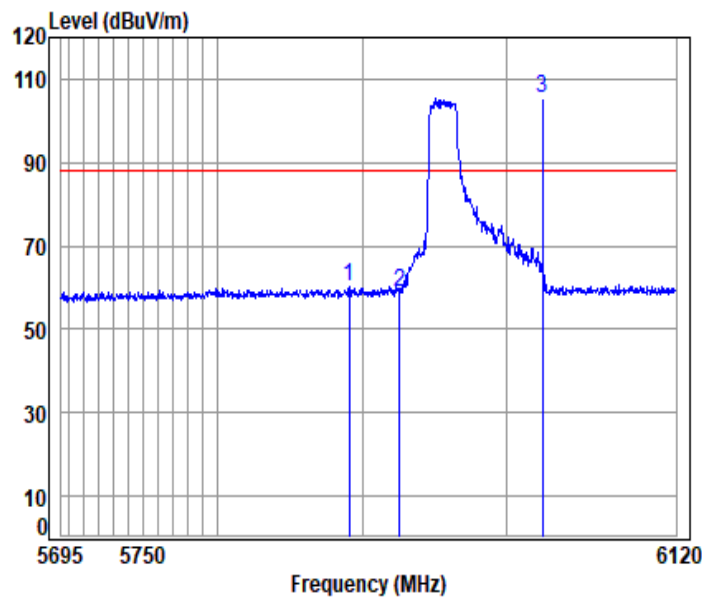
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11ax_160M_Partial_RU242_TX_CH_015_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6025 Band edge

: WIFI 6E 11AX160_RU242 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5890.095	10.90	33.52	30.54	46.45	60.33	88.20	-27.87 peak
2 5925.000	10.87	33.55	30.53	44.97	58.86	88.20	-29.34 peak
3 pp 6025.000	10.82	33.85	30.52	91.35	105.50	88.20	17.30 peak



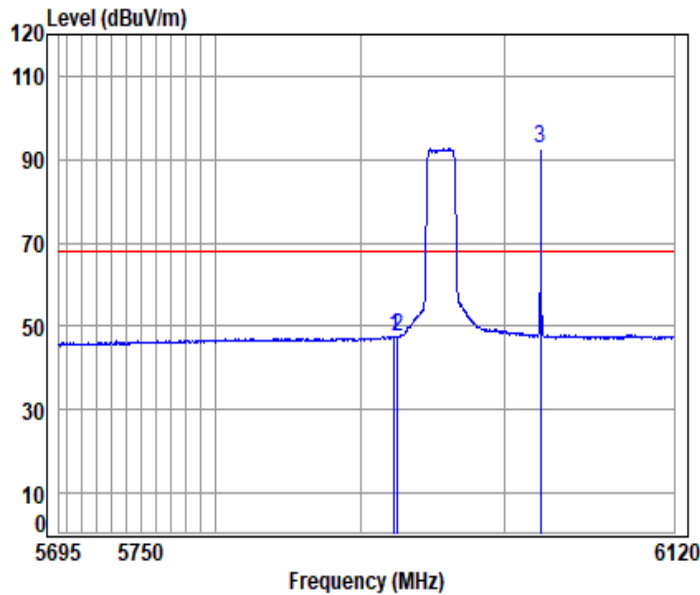
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11ax_160M_Partial_RU242_TX_CH_015_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6025 Band edge

: WIFI 6E 11AX160_RU242 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5922.829	10.87	33.55	30.53	33.74	47.63	68.20 -20.57 Average
2	5925.000	10.87	33.55	30.53	33.56	47.45	68.20 -20.75 Average
3 pp	6025.000	10.82	33.85	30.52	78.36	92.51	68.20 24.31 Average



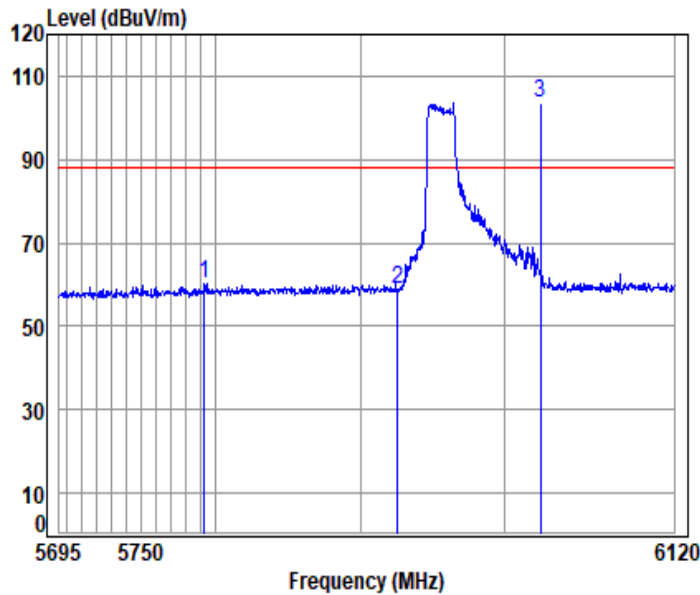
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11ax_160M_Partial_RU242_TX_CH_015_Verical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6025 Band edge

: WIFI 6E 11AX160_RU242 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5792.560	10.99	33.39	30.58	46.45	60.25	88.20	-27.95 peak
2	5925.000	10.87	33.55	30.53	45.10	58.99	88.20	-29.21 peak
3	pp 6025.000	10.82	33.85	30.52	89.49	103.64	88.20	15.44 peak

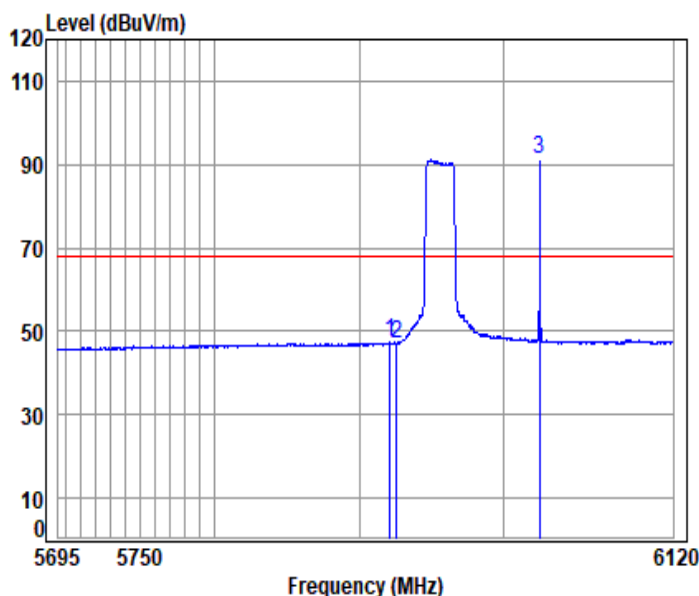
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11ax_160M_Partial_RU242_TX_CH_015_Verical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6025 Band edge

: WIFI 6E 11AX160_RU242 MIMO

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5920.698	10.87	33.54	30.53	33.35	47.23	68.20	-20.97 Average
2 5925.000	10.87	33.55	30.53	33.15	47.04	68.20	-21.16 Average
3 pp 6025.000	10.82	33.85	30.52	76.96	91.11	68.20	22.91 Average



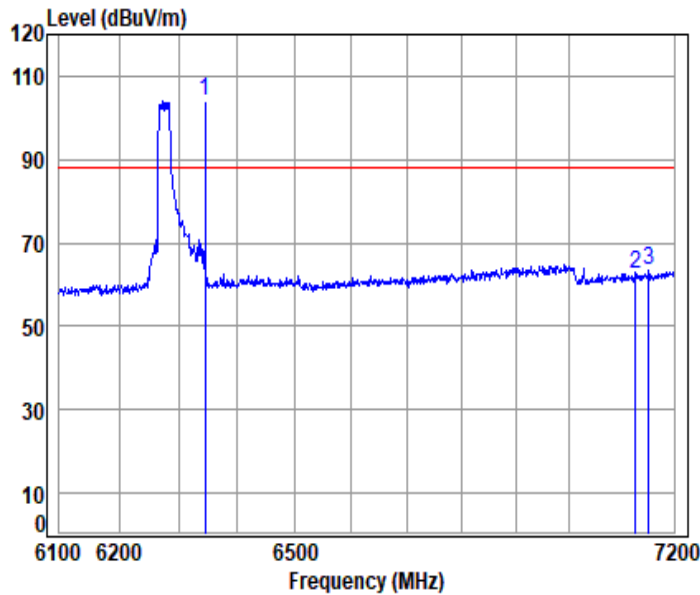
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11ax_160M_Partial_RU242_TX_CH_079_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 03604WM

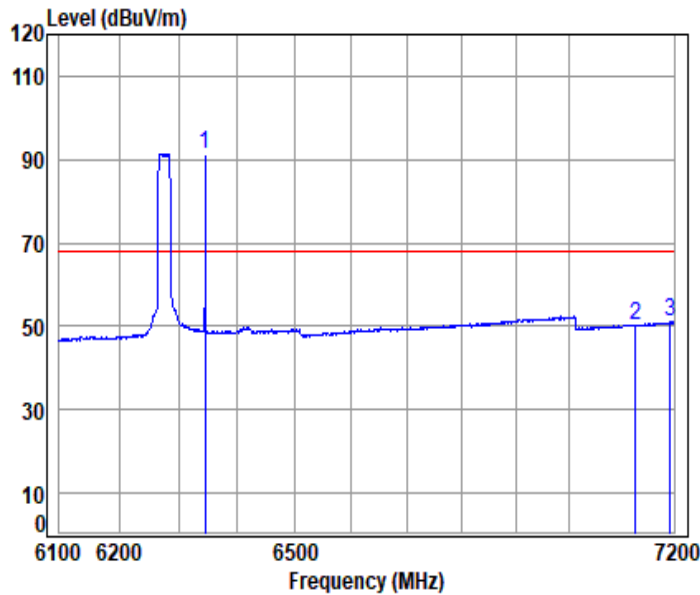
Mode : 6345 Band edge

: WIFI 6E 11AX160_RU242 MIMO

		Cable	Ant	Preamp	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 6345.000	11.02	34.69	30.74	89.10	104.07	88.20	15.87	peak
2	7125.000	11.82	36.45	31.26	45.59	62.60	88.20	-25.60	peak
3	7151.224	11.85	36.50	31.28	46.50	63.57	88.20	-24.63	peak



11ax_160M_Partial_RU242_TX_CH_079_Horizontal-AVG



Condition: 3m HORIZONTAL

Job No : 03604WM

Mode : 6345 Band edge

: WIFI 6E 11AX160_RU242 MIMO

		Cable	Ant	Preamp	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	6345.000	11.02	34.69	30.74	76.45	91.42	68.20	23.22	Average
2	7125.000	11.82	36.45	31.26	33.05	50.06	68.20	-18.14	Average
3	7192.841	11.88	36.59	31.30	33.74	50.91	68.20	-17.29	Average



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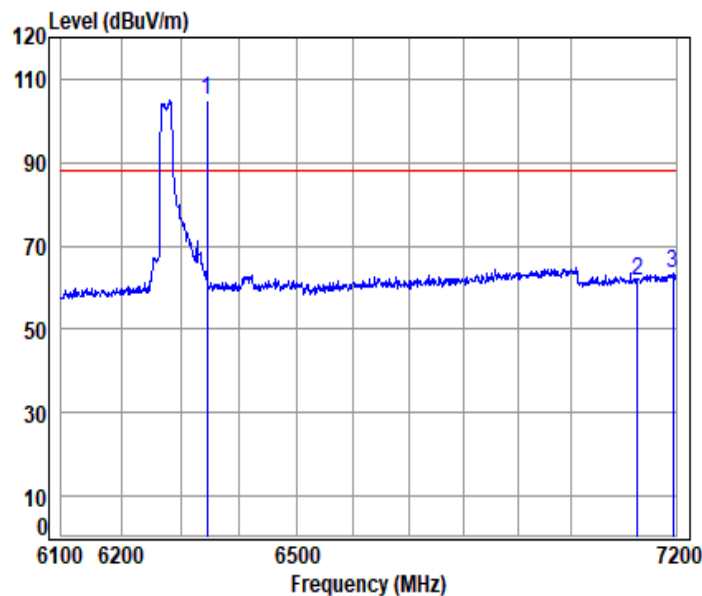
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360407

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11ax_160M_Partial_RU242_TX_CH_079_Vertical-Peak



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6345 Band edge

: WIFI 6E 11AX160_RU242 MIMO

		Cable	Ant	Preamp	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	6345.000	11.02	34.69	30.74	89.86	104.83	88.20	16.63	peak
2	7125.000	11.82	36.45	31.26	44.43	61.44	88.20	-26.76	peak
3	7194.034	11.88	36.59	31.30	46.26	63.43	88.20	-24.77	peak



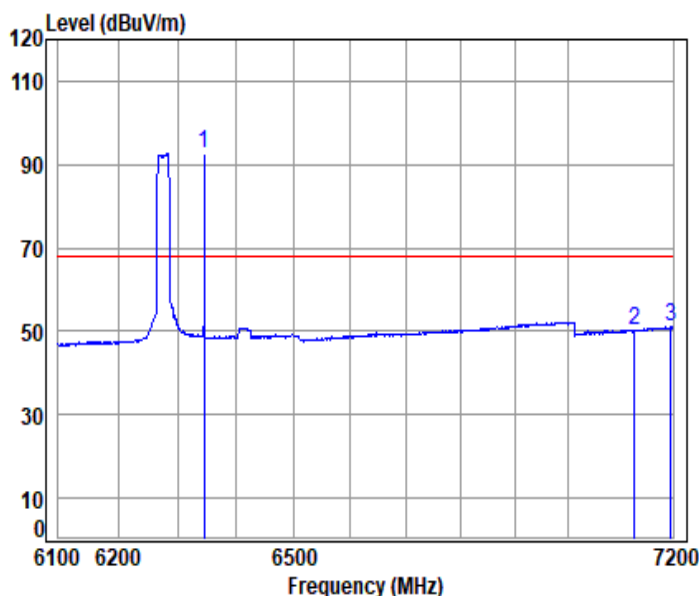
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11ax_160M_Partial_RU242_TX_CH_079_Vertical-AVG



Condition: 3m VERTICAL

Job No : 03604WM

Mode : 6345 Band edge

: WIFI 6E 11AX160_RU242 MIMO

		Cable	Ant	Preamp	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	6345.000	11.02	34.69	30.74	77.75	92.72	68.20	24.52	Average
2	7125.000	11.82	36.45	31.26	33.10	50.11	68.20	-18.09	Average
3	7196.420	11.89	36.59	31.30	33.74	50.92	68.20	-17.28	Average



7.11 Contention-based Protocol

Test Requirement 47 CFR Part 15, Subpart E 15.407 (d)(6)

Test Method: KDB 987594 D02 U-NII 6GHz EMC Measurement v02r01

Limit:

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

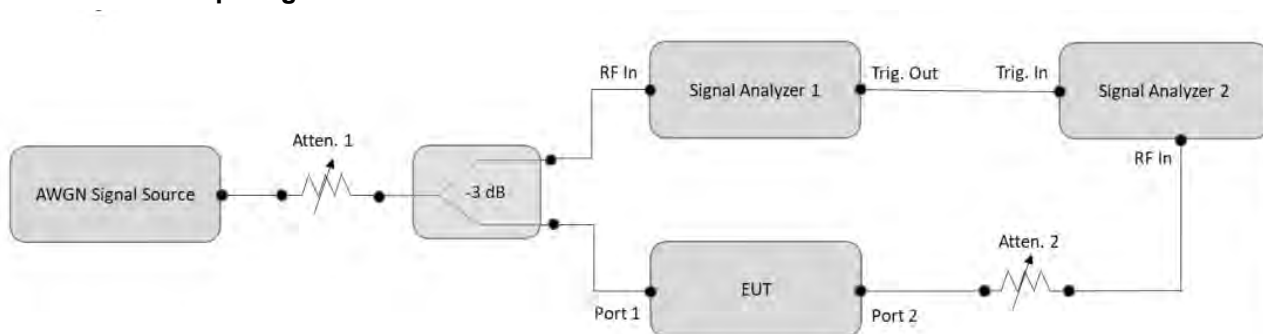
Humidity: 54.9 % RH

Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	22	Normal operating_Keep the EUT communication with the companion device.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

Note: Threshold Level (TL) = -62dBm + antenna gain.

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 Measurement Procedure and Data

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.





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8 Test Setup Photo

Please refer to SZCR2409003604 Appendix_Setup Photo.

9 EUT Constructional Details (EUT Photos)

Please refer to SZCR2409003604 Appendix_ External Photo and Internal Photo.



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant9

Ant9										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11a	MIMO	5955	/	/	1.392	1.435	97.00	0.13	0.00
			6175	/	/	1.393	1.435	97.07	0.13	0.03
			6415	/	/	1.393	1.435	97.07	0.13	0.00
	802.11ax (HEW20)	MIMO	5955	RU242	Left	0.590	0.632	93.35	0.30	0.06
			6175	RU242	Left	0.589	0.632	93.20	0.31	0.00
			6415	RU242	Left	0.589	0.632	93.20	0.31	0.06
	802.11ax (HEW40)	MIMO	5965	RU484	Left	0.580	0.622	93.25	0.30	0.10
			6165	RU484	Left	0.579	0.622	93.09	0.31	0.03
			6405	RU484	Left	0.579	0.622	93.09	0.31	0.00
	802.11ax (HEW80)	MIMO	5985	RU996	Left	0.309	0.352	87.78	0.57	0.08
			6145	RU996	Left	0.309	0.352	87.78	0.57	0.17
			6385	RU996	Left	0.310	0.352	88.07	0.55	0.11
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	0.186	0.229	81.22	0.90	0.36
			6185	2xRU996	Left	0.186	0.228	81.58	0.88	0.09
			6345	2xRU996	Left	0.188	0.229	82.10	0.86	0.38

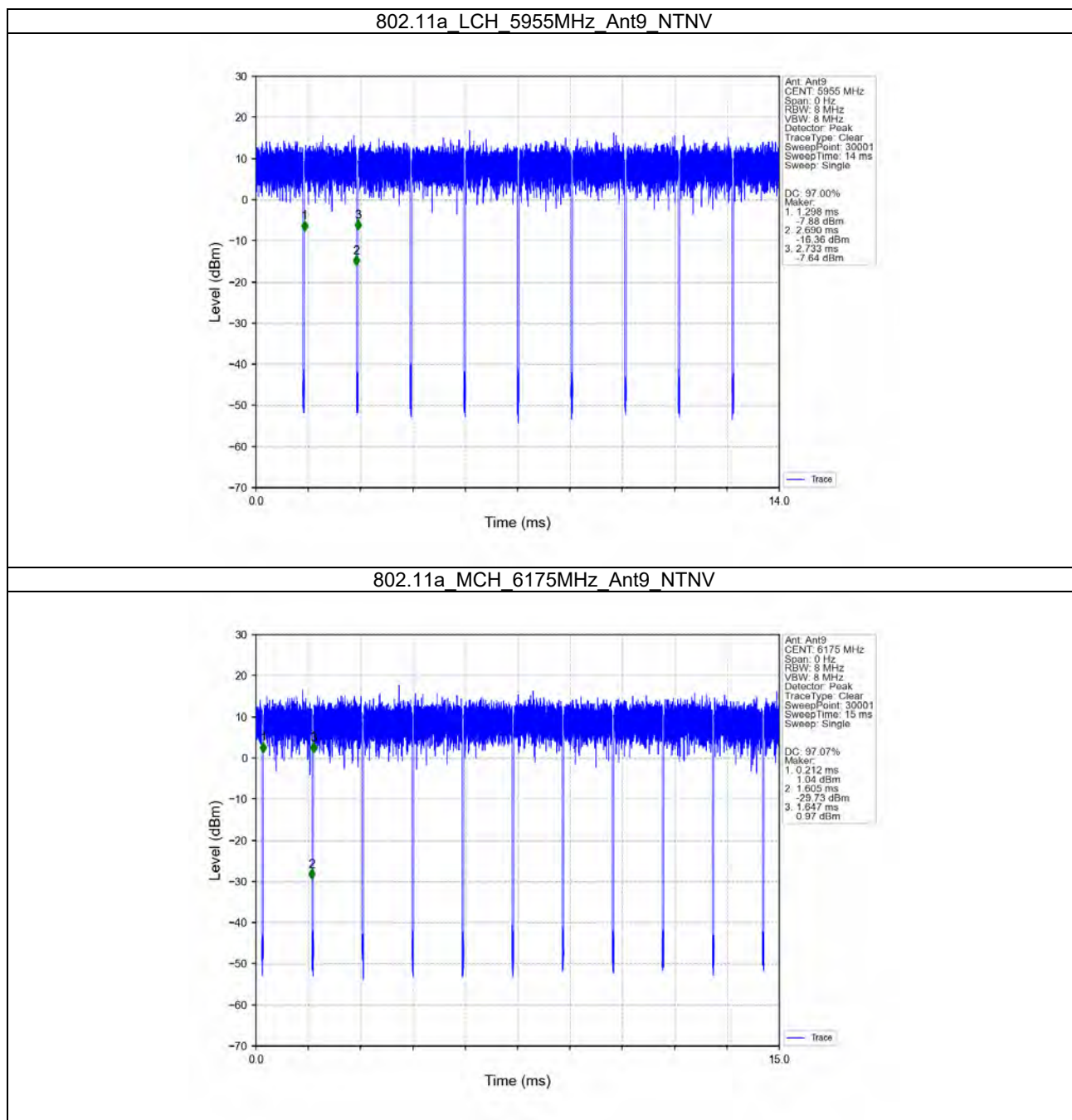


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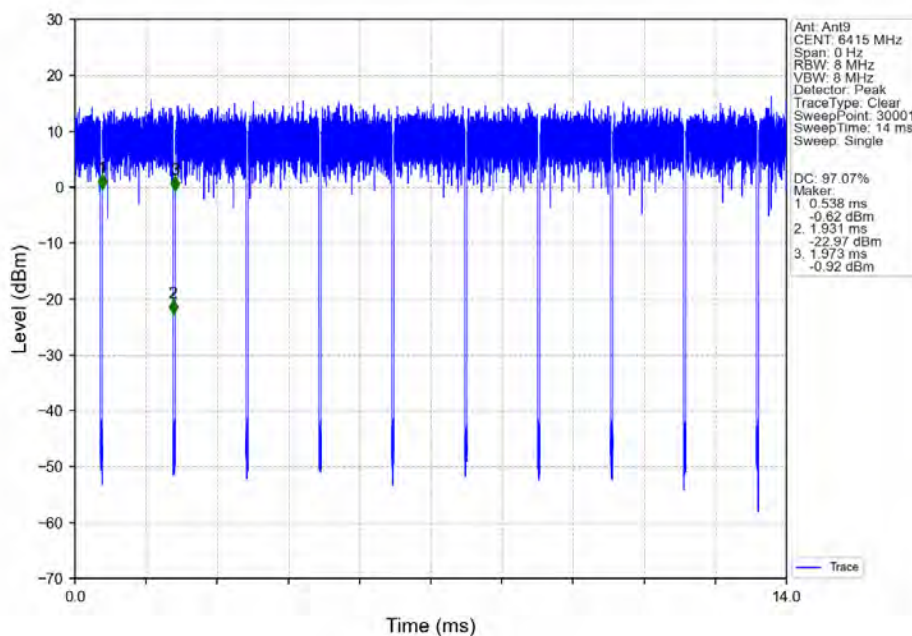
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1.2 Test Graph

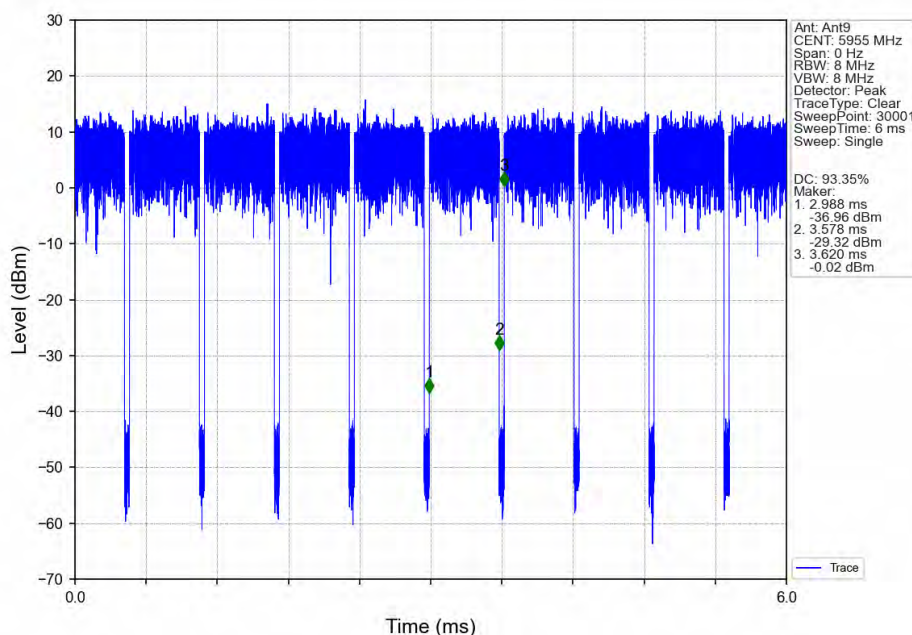
1.2.1 Ant9



802.11a HCH 6415MHz Ant9 NTN



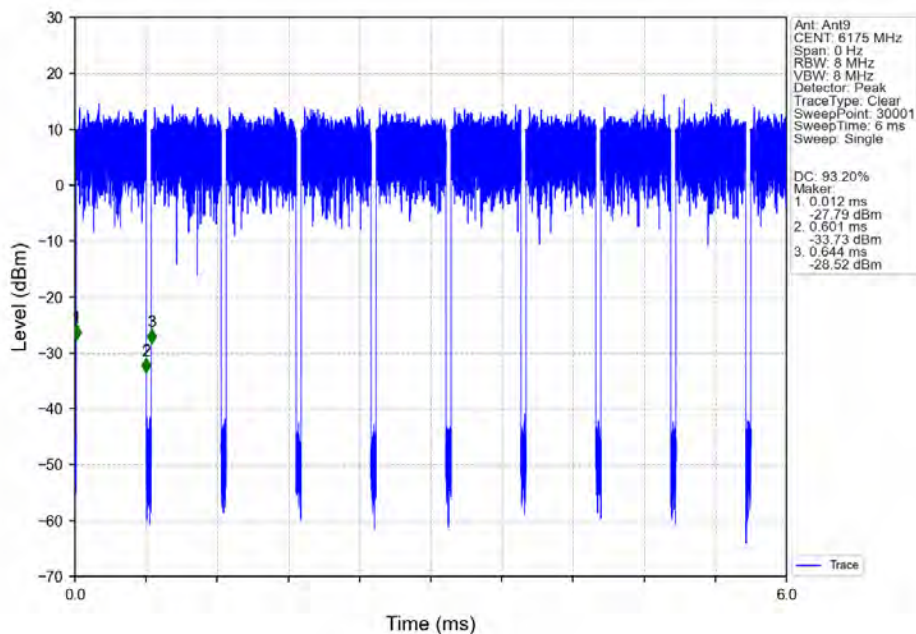
802.11ax(HEW20) LCH 5955MHz RU242 Left Ant9 NTN



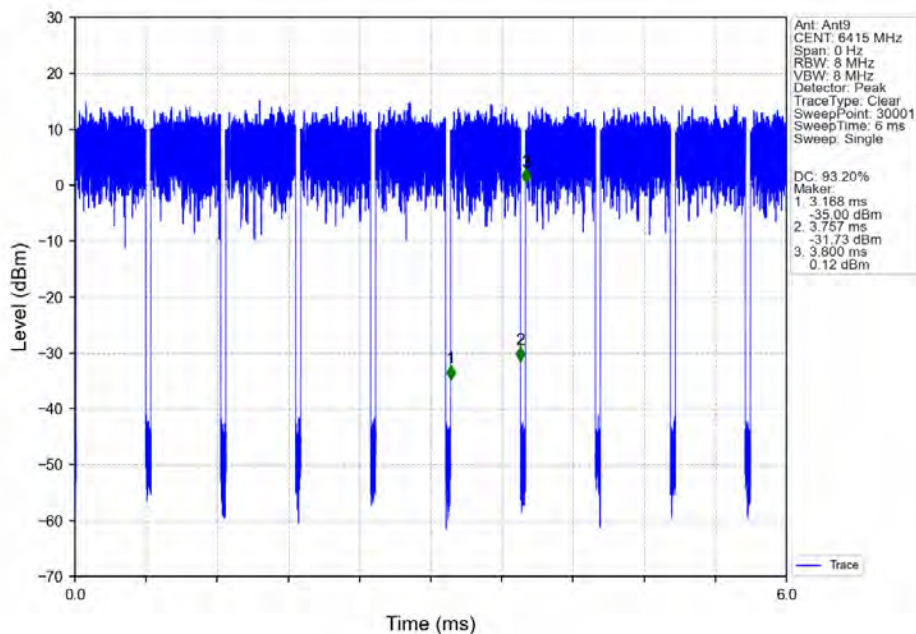
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802.11ax(HEW20)_MCH 6175MHz RU242 Left Ant9 NTN



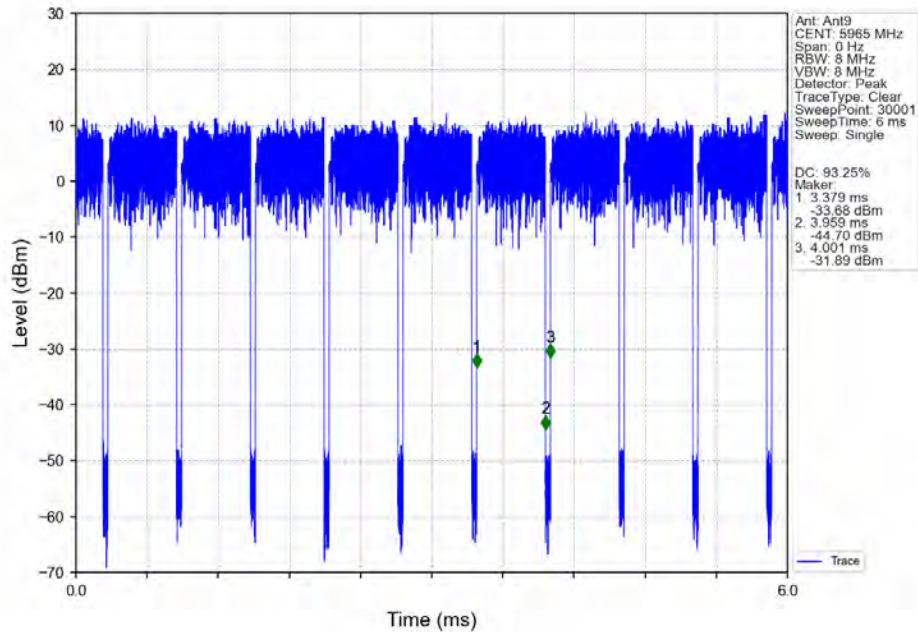
802.11ax(HEW20)_HCH 6415MHz RU242 Left Ant9 NTN



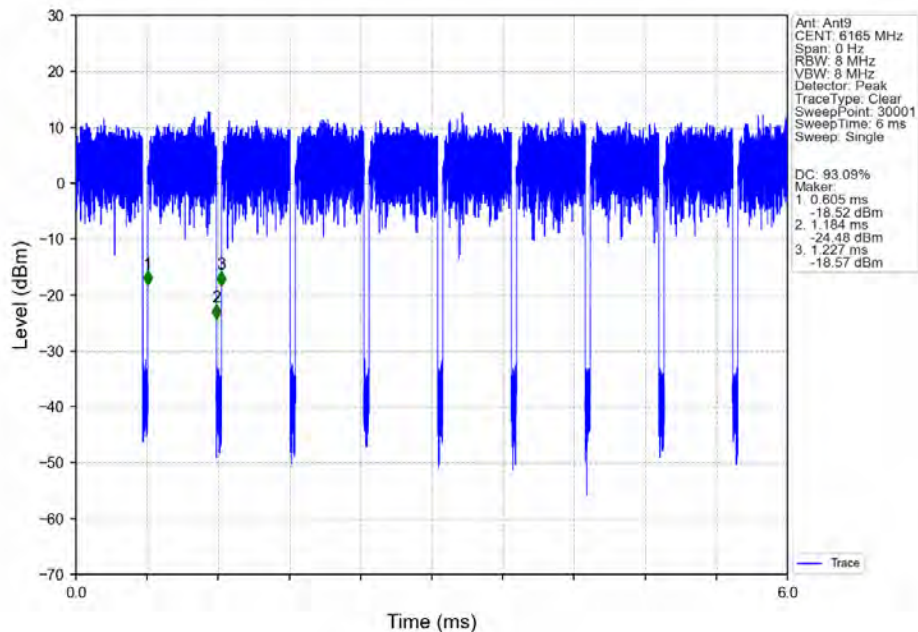
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802.11ax(HEW40) LCH_5965MHz_RU484_Left_Ant9_NTNV



802.11ax(HEW40) MCH_6165MHz_RU484_Left_Ant9_NTNV



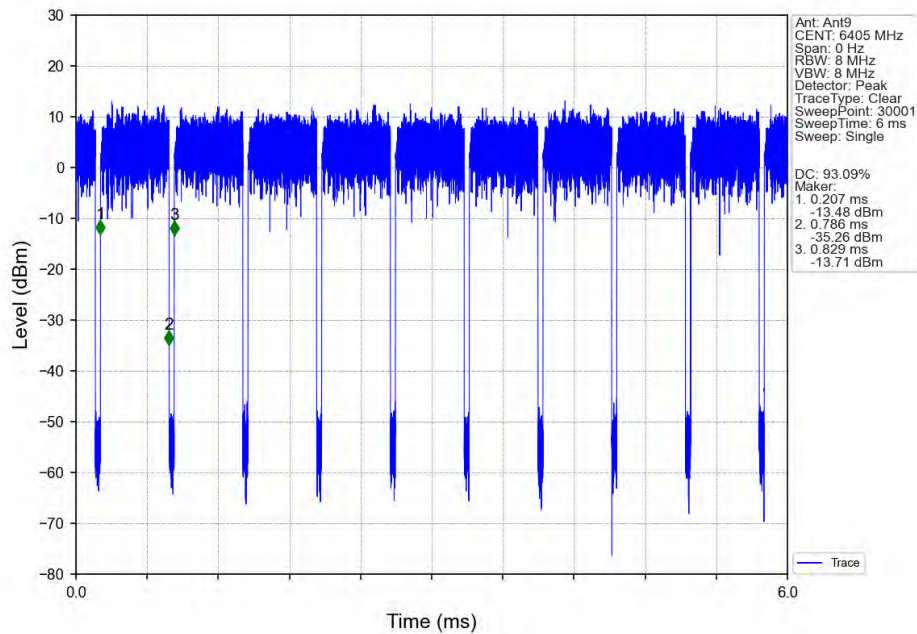
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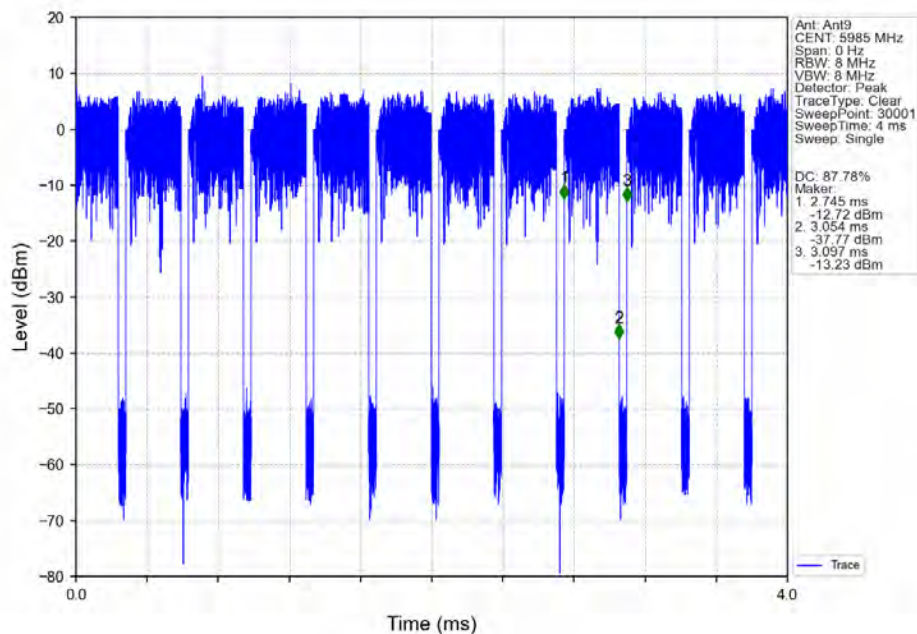
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802.11ax(HEW40) HCH 6405MHz RU484 Left Ant9 NTN



802.11ax(HEW80) LCH 5985MHz RU996 Left Ant9 NTN



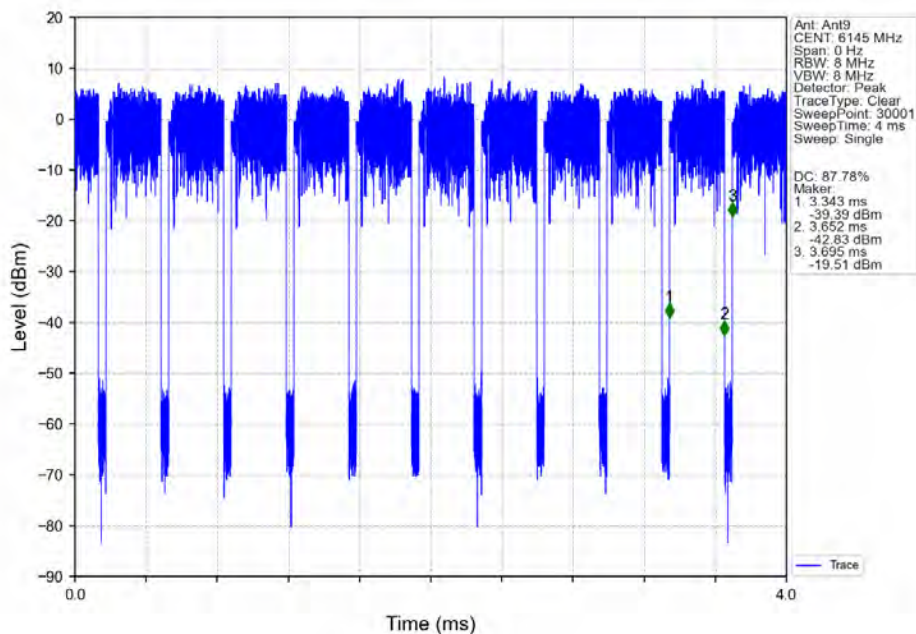
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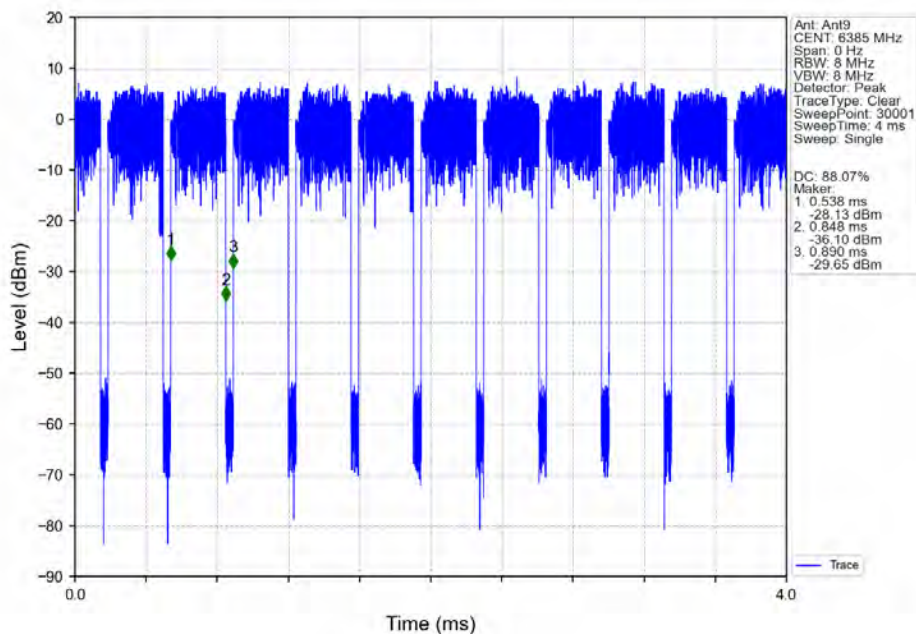
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802.11ax(HEW80) MCH 6145MHz RU996 Left Ant9 NTN



802.11ax(HEW80) HCH 6385MHz RU996 Left Ant9 NTN



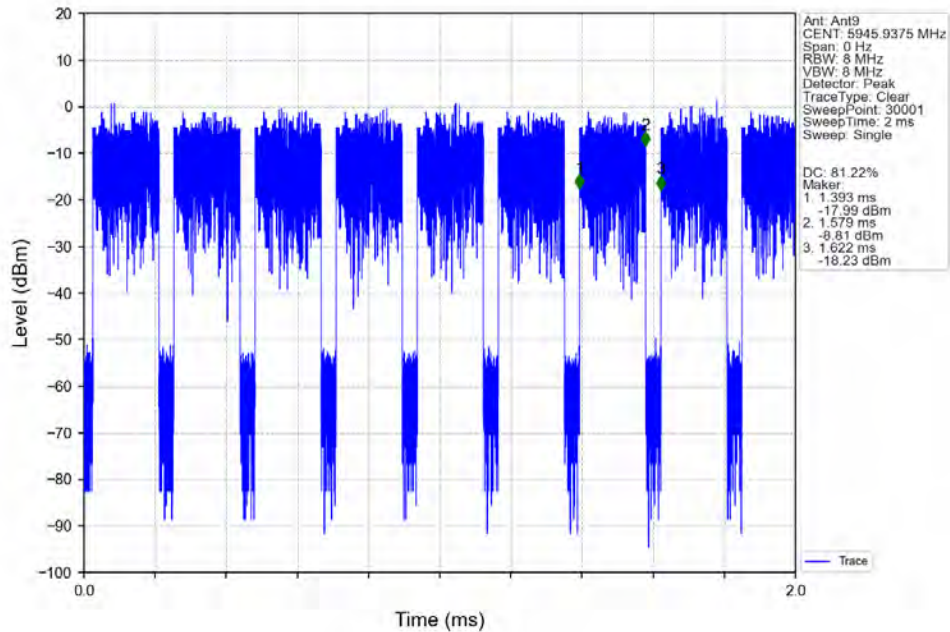
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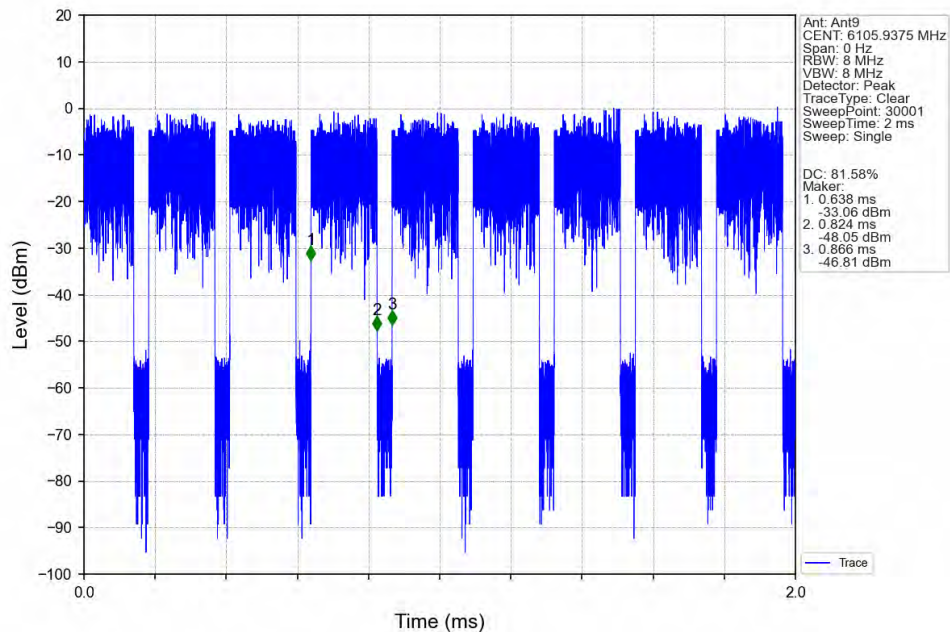
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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

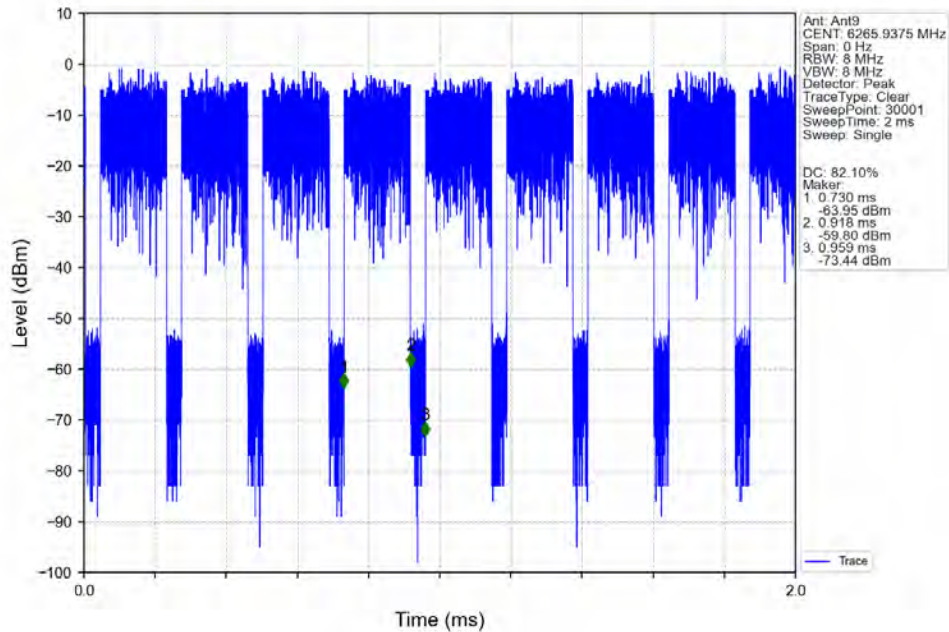
802.11ax(HEW160) LCH 6025MHz 2xRU996 Left Ant9 NTN



802.11ax(HEW160) MCH 6185MHz 2xRU996 Left Ant9 NTN



802.11ax(HEW160)_HCH_6345MHz_2xRU996 Left Ant9 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

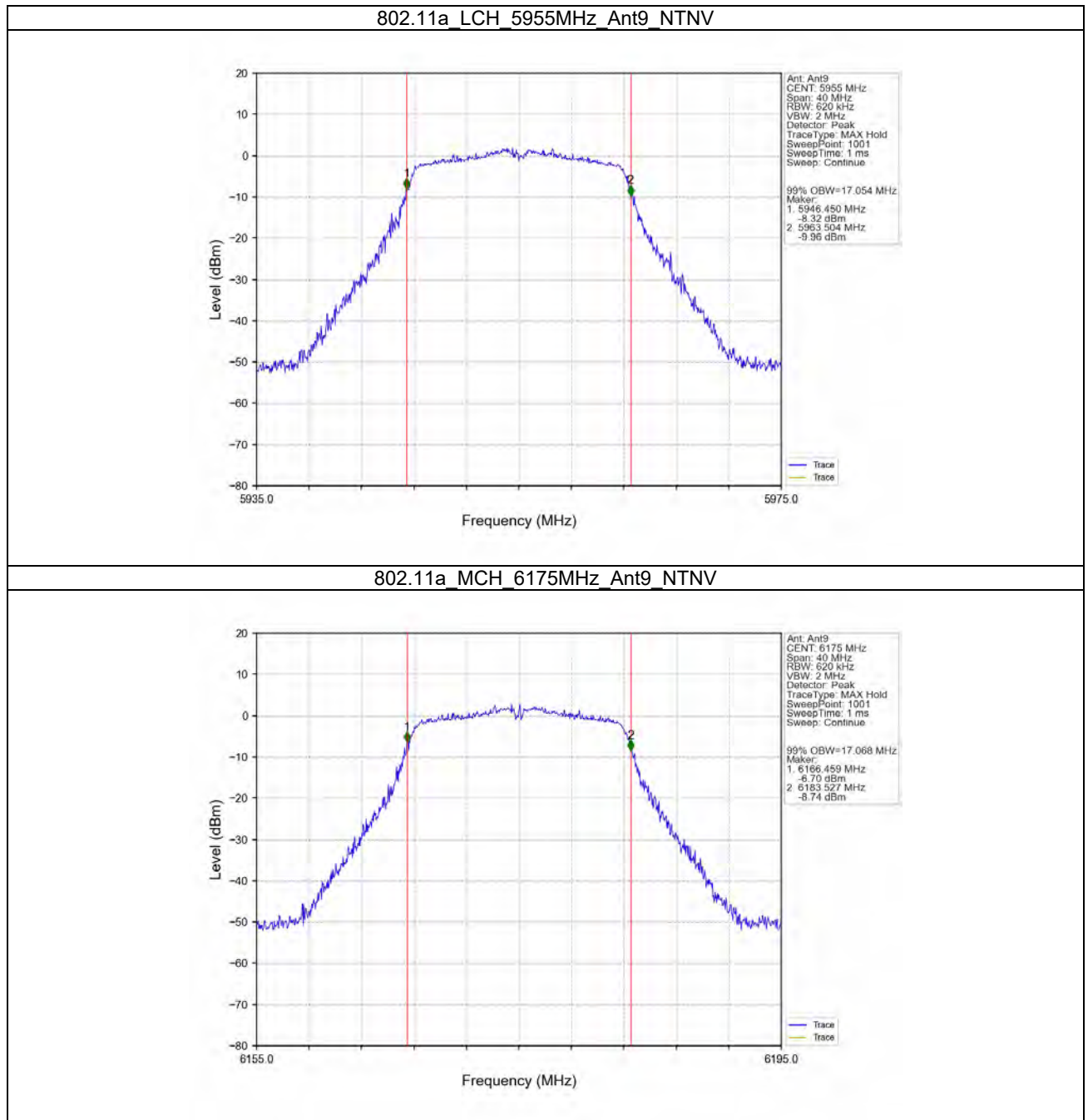
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	MIMO	5955	/	/	9	17.054	<=320	Pass
			6175	/	/	9	17.068	<=320	Pass
			6415	/	/	9	17.081	<=320	Pass
	802.11ax (HEW20)	MIMO	5955	RU242	Left	9	19.113	<=320	Pass
			6175	RU242	Left	9	19.034	<=320	Pass
			6415	RU242	Left	9	19.055	<=320	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	9	37.789	<=320	Pass
			6165	RU484	Left	9	37.822	<=320	Pass
			6405	RU484	Left	9	37.757	<=320	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	9	77.841	<=320	Pass
			6145	RU996	Left	9	77.916	<=320	Pass
			6385	RU996	Left	9	77.818	<=320	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	9	156.970	<=320	Pass
			6185	2xRU996	Left	9	156.867	<=320	Pass
			6345	2xRU996	Left	9	156.667	<=320	Pass

2.1.2 26dB BW

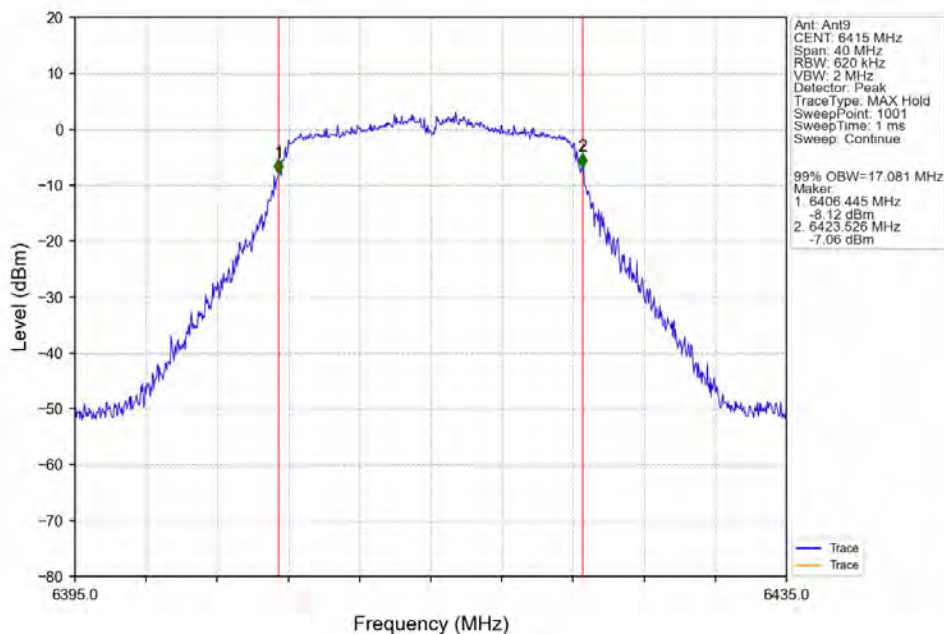
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	MIMO	5955	/	/	9	19.924	<=320	Pass
			6175	/	/	9	19.846	<=320	Pass
			6415	/	/	9	19.935	<=320	Pass
	802.11ax (HEW20)	MIMO	5955	RU242	Left	9	21.306	<=320	Pass
			6175	RU242	Left	9	21.450	<=320	Pass
			6415	RU242	Left	9	21.071	<=320	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	9	39.457	<=320	Pass
			6165	RU484	Left	9	39.543	<=320	Pass
			6405	RU484	Left	9	39.520	<=320	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	9	80.419	<=320	Pass
			6145	RU996	Left	9	80.687	<=320	Pass
			6385	RU996	Left	9	80.135	<=320	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	9	162.205	<=320	Pass
			6185	2xRU996	Left	9	162.403	<=320	Pass
			6345	2xRU996	Left	9	162.170	<=320	Pass

2.2 Test Graph

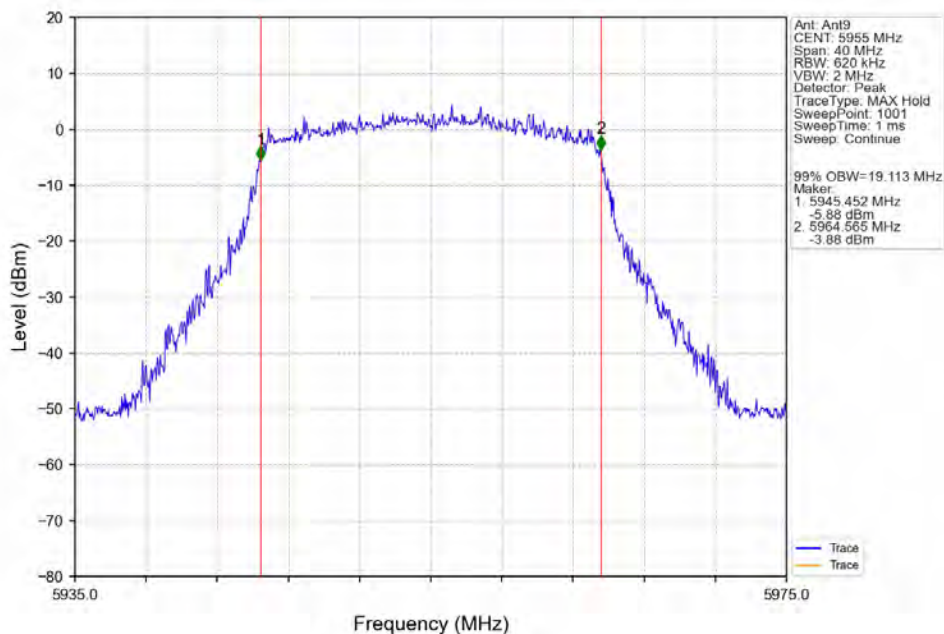
2.2.1 OBW



802.11a HCH 6415MHz Ant9 NTN



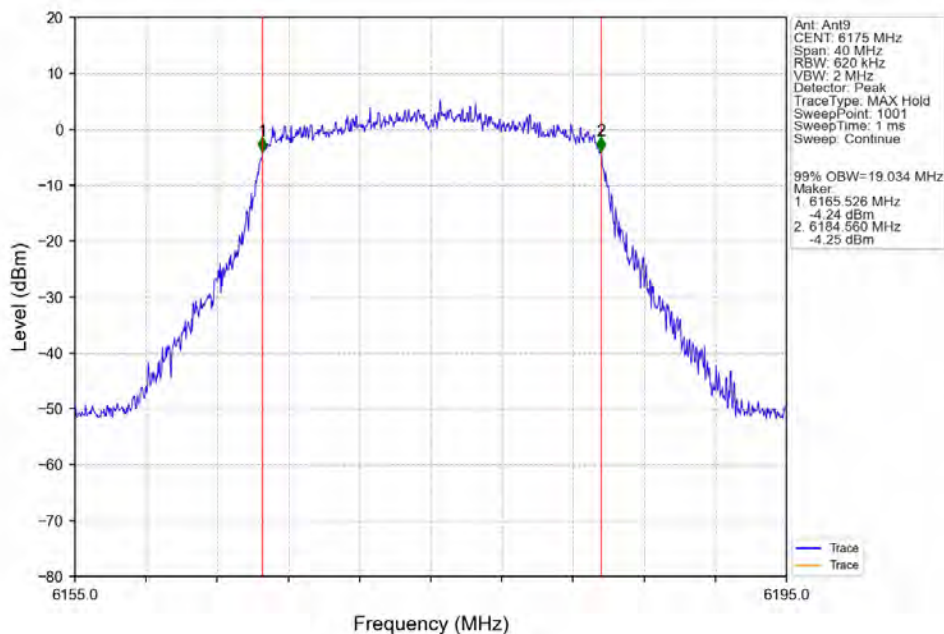
802.11ax(HEW20) LCH 5955MHz RU242 Left Ant9 NTN



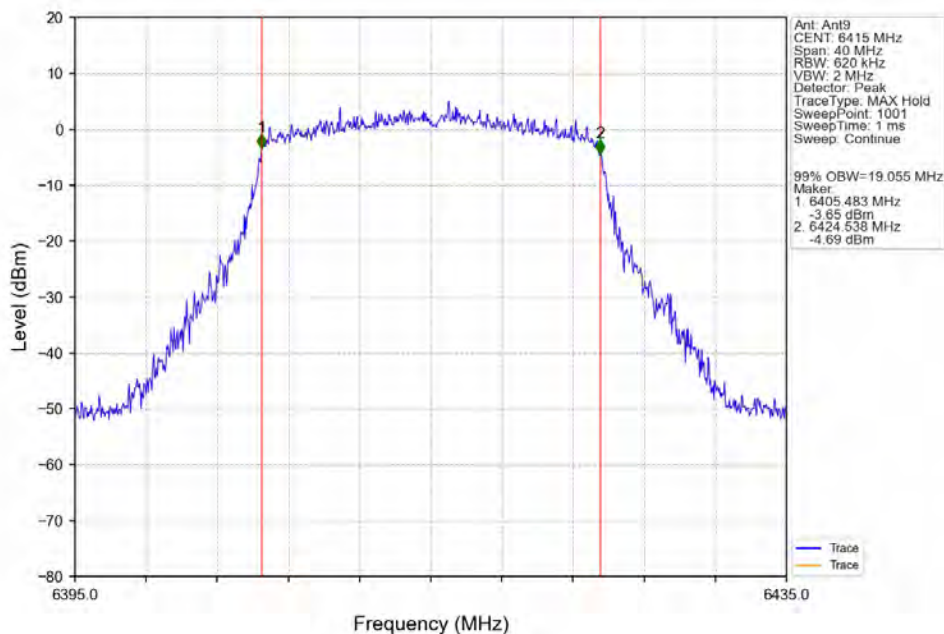
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802.11ax(HEW20)_MCH 6175MHz RU242 Left Ant9 NTN



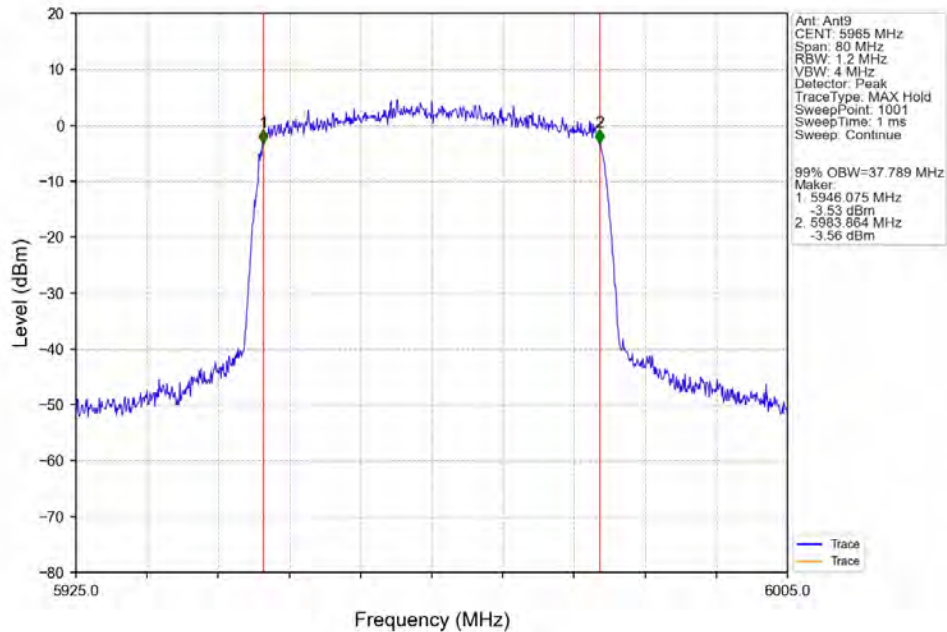
802.11ax(HEW20)_HCH 6415MHz RU242 Left Ant9 NTN



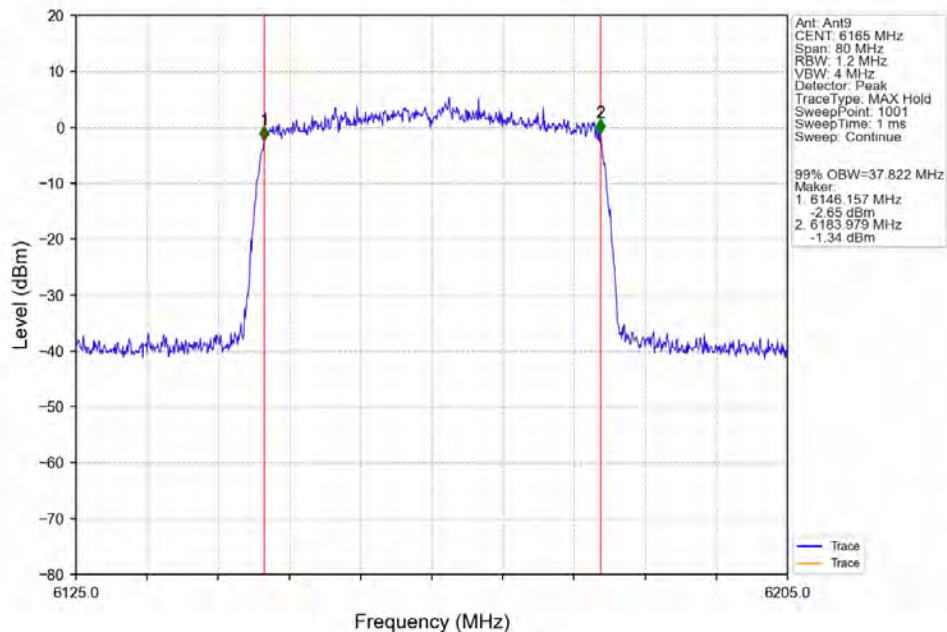
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802.11ax(HEW40) LCH_5965MHz RU484 Left Ant9 NTN



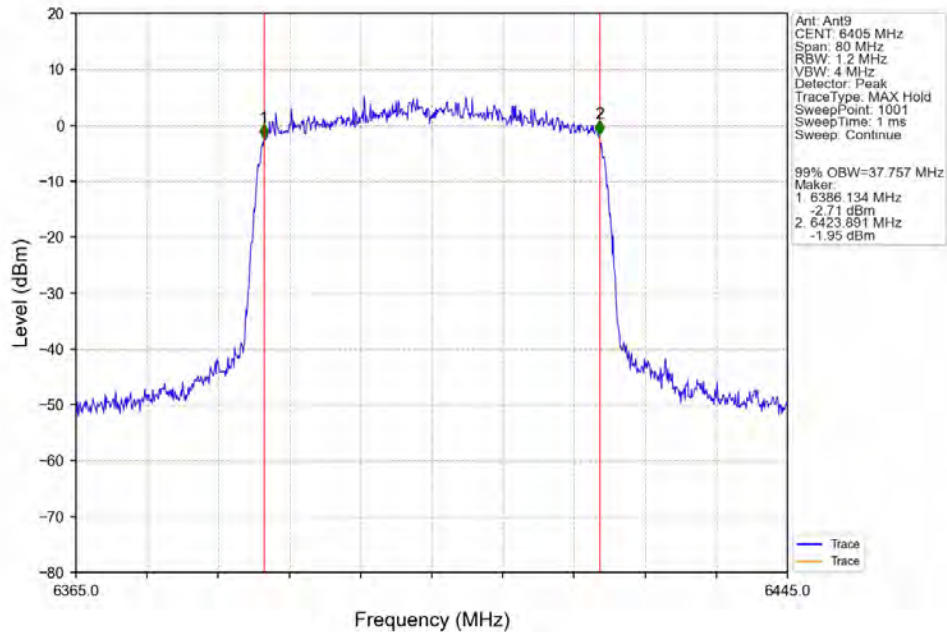
802.11ax(HEW40) MCH_6165MHz RU484 Left Ant9 NTN



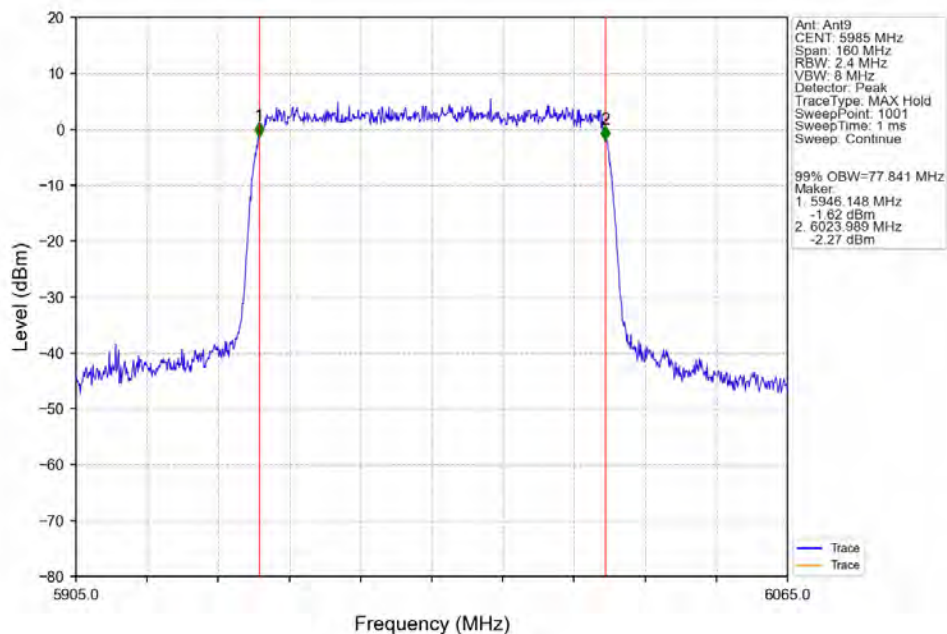
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802.11ax(HEW40) HCH 6405MHz RU484 Left Ant9 NTN



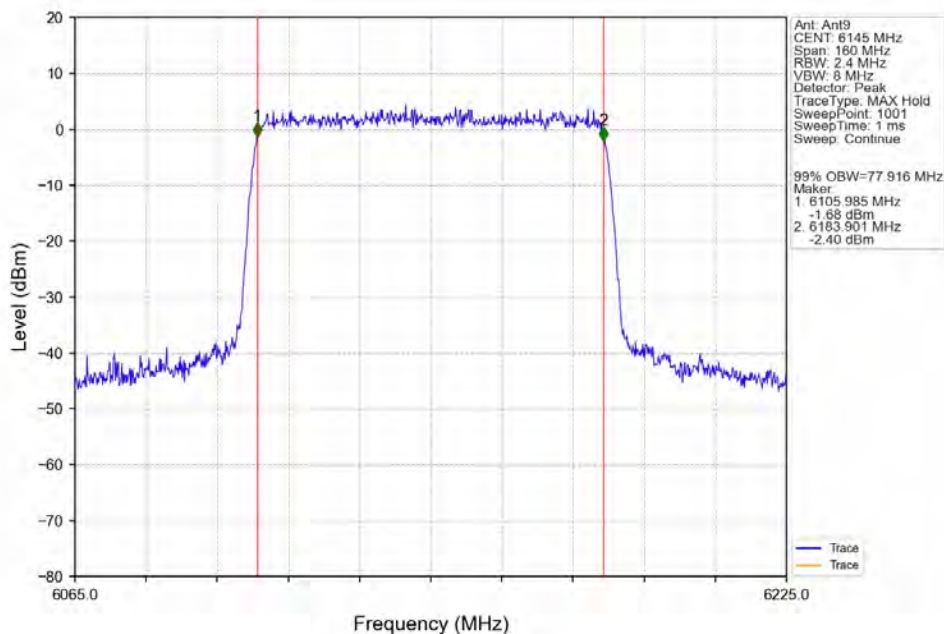
802.11ax(HEW80) LCH 5985MHz RU996 Left Ant9 NTN



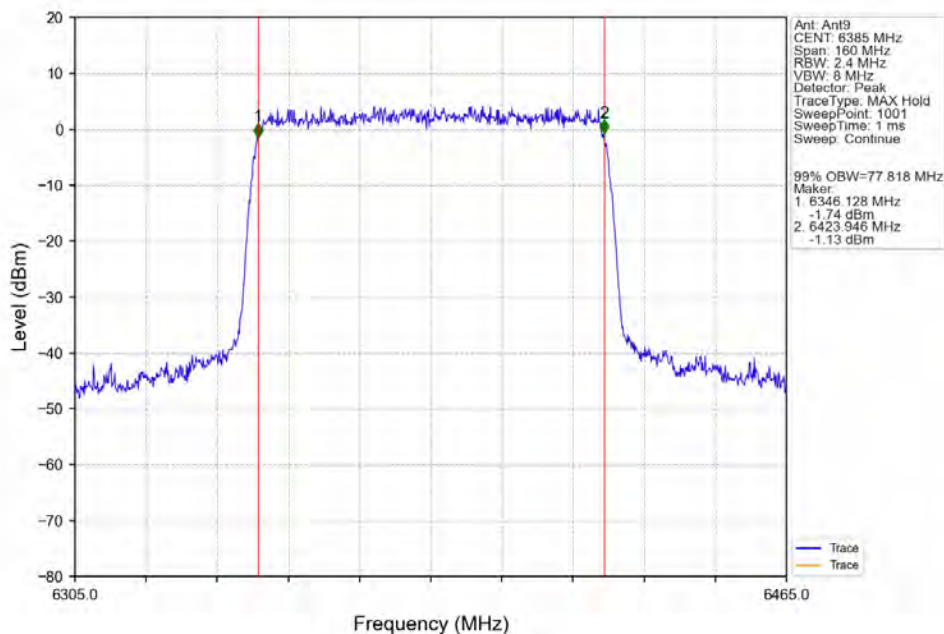
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802.11ax(HEW80) MCH 6145MHz RU996 Left Ant9 NTN



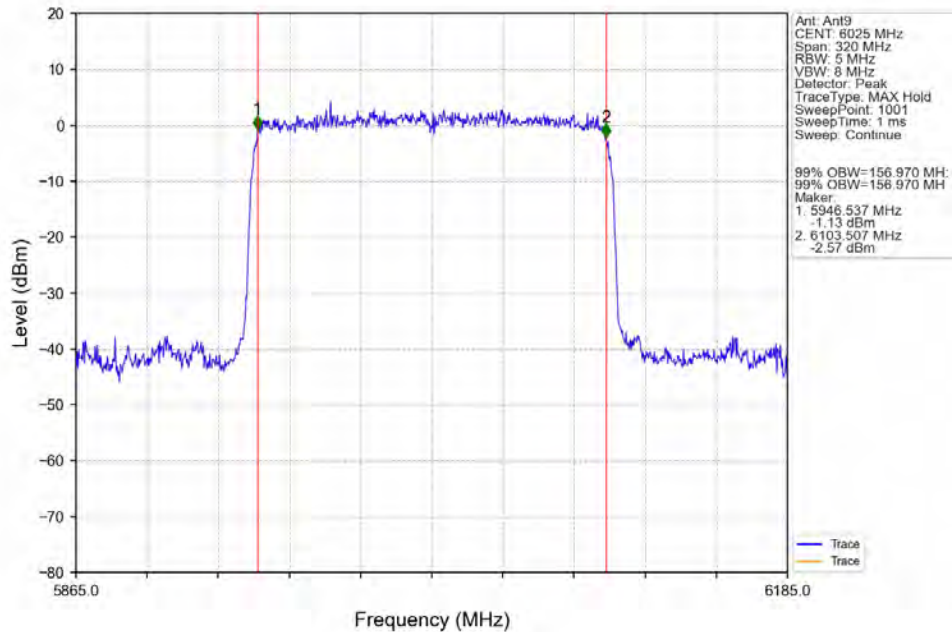
802.11ax(HEW80) HCH 6385MHz RU996 Left Ant9 NTN



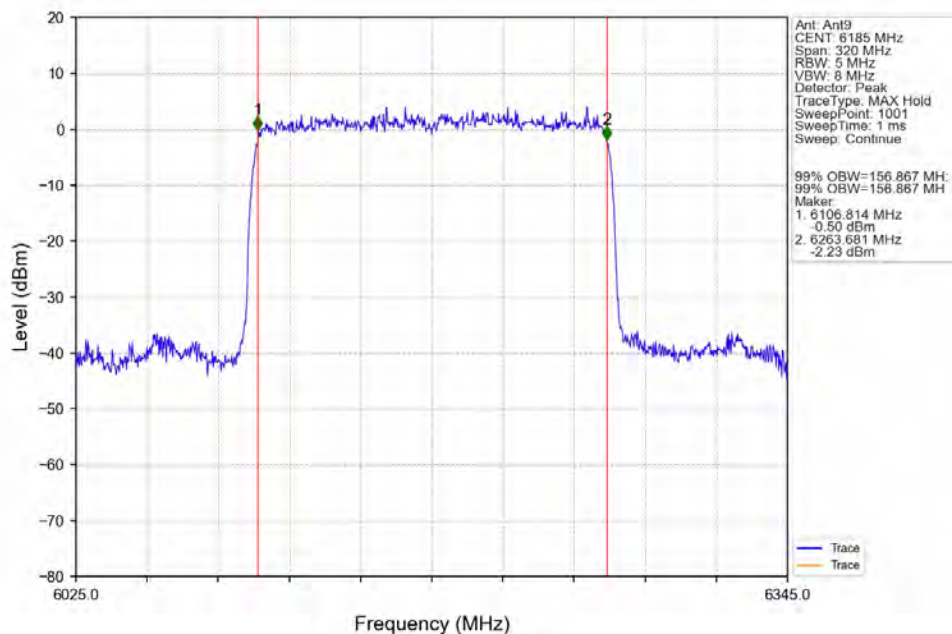
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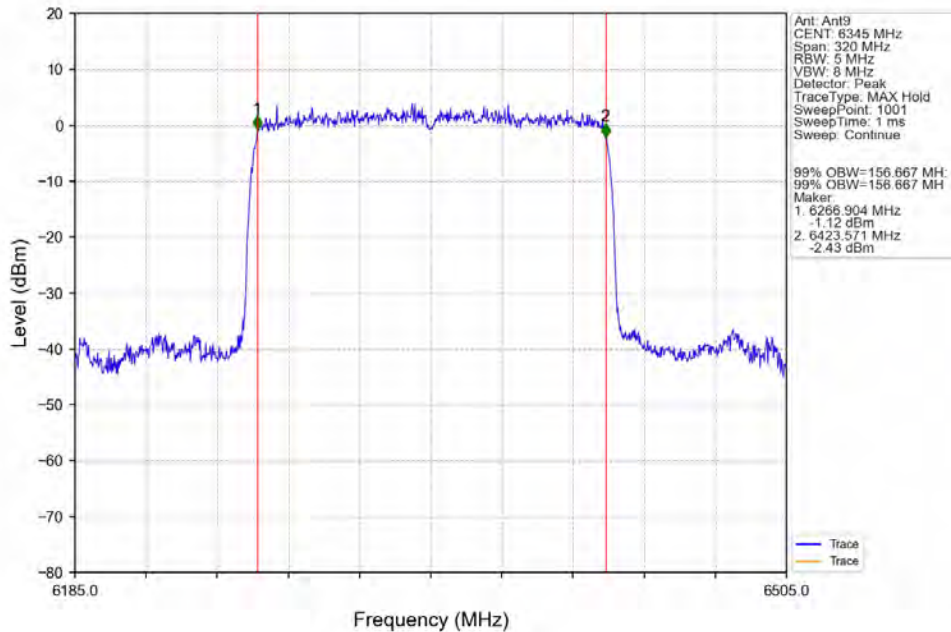
802.11ax(HEW160)_LCH_6025MHz_2xRU996_Left_Ant9_NTNV



802.11ax(HEW160)_MCH_6185MHz_2xRU996_Left_Ant9_NTNV



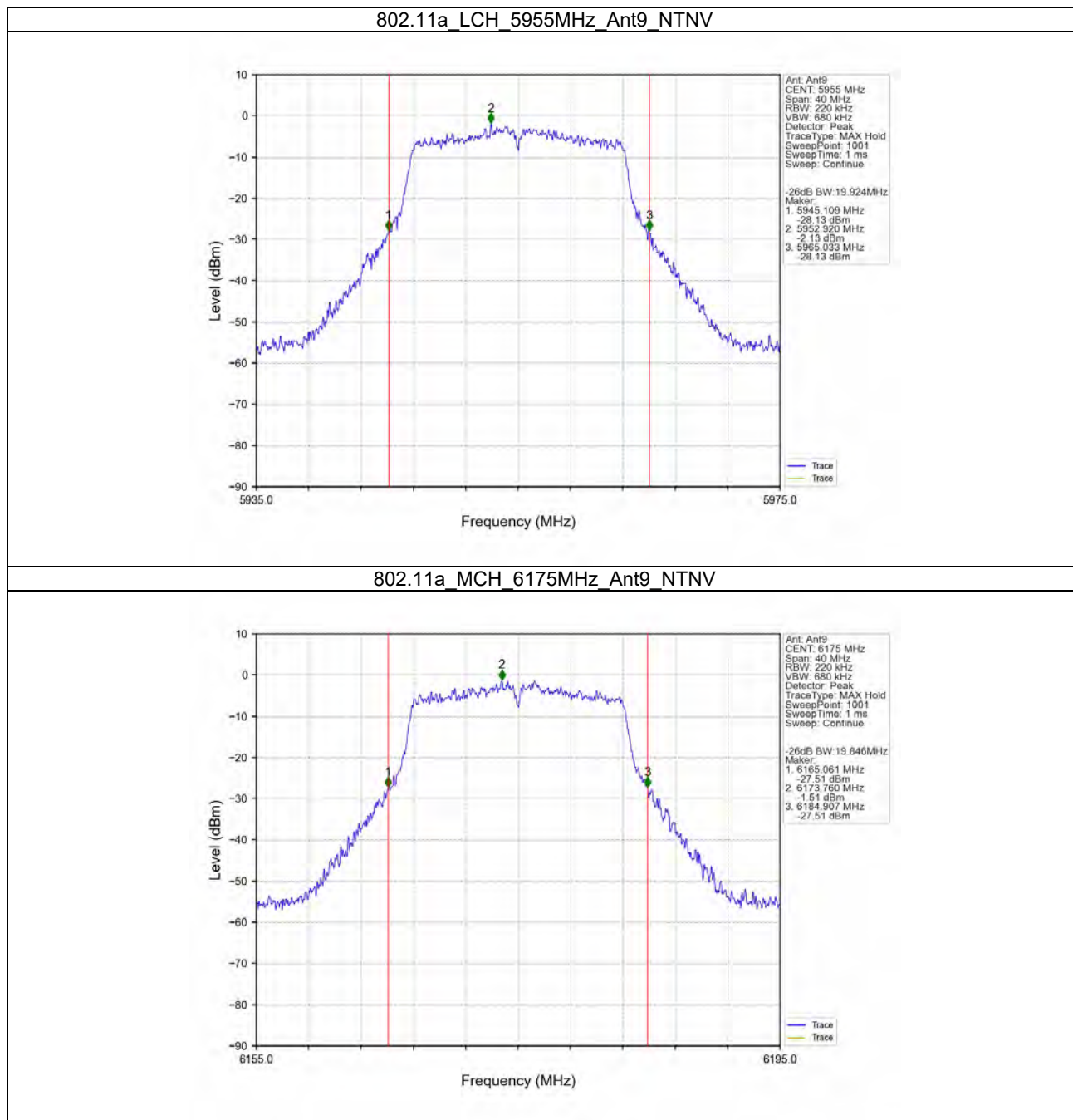
802.11ax(HEW160)_HCH_6345MHz_2xRU996 Left Ant9 NTN



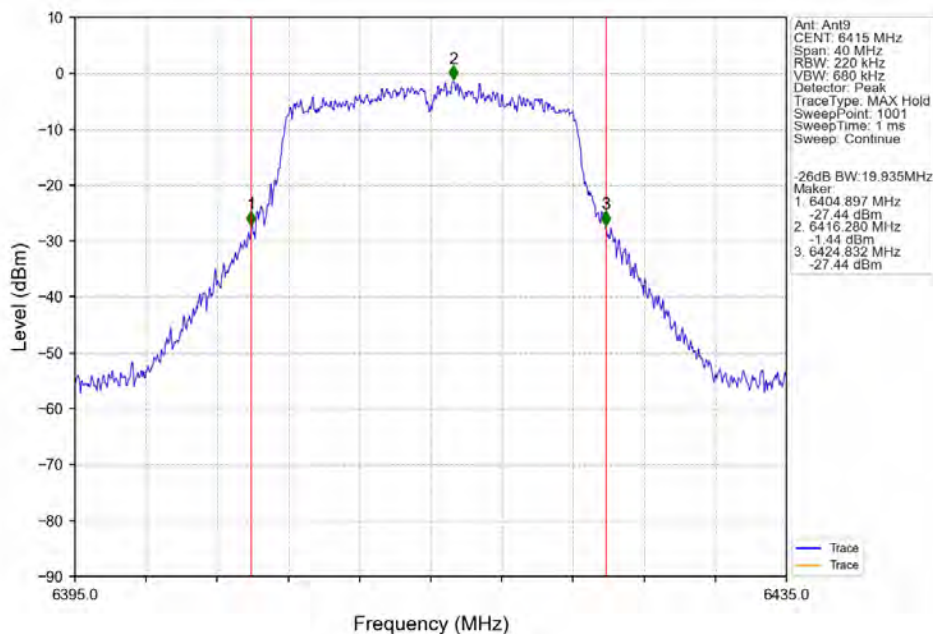
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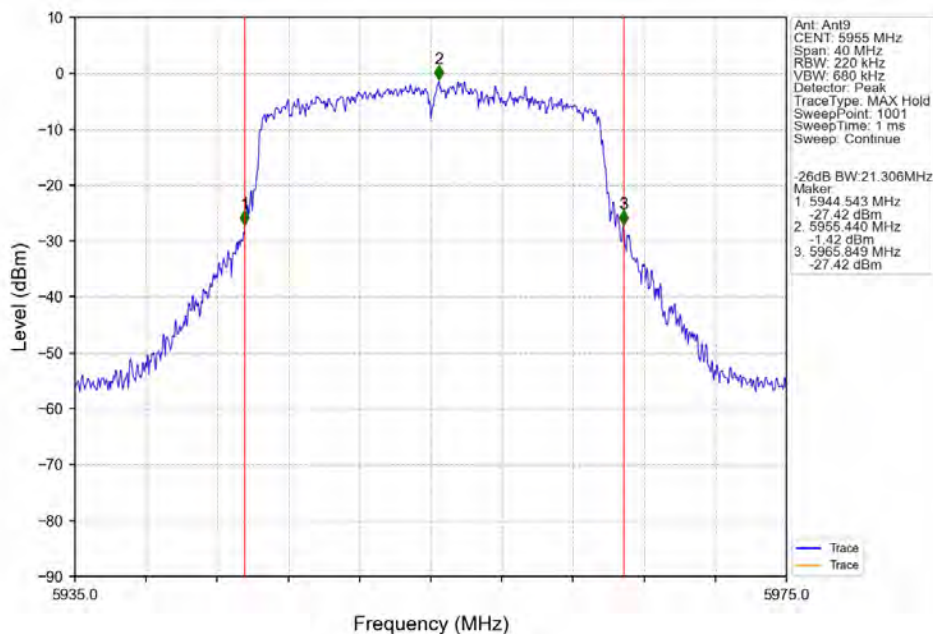
2.2.2 26dB BW



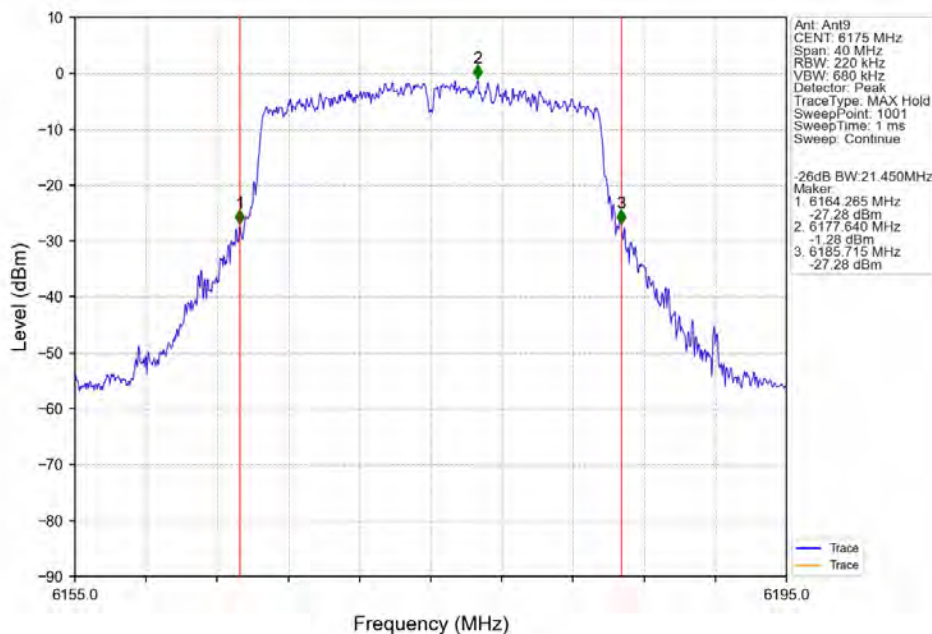
802.11a HCH 6415MHz Ant9 NTNV



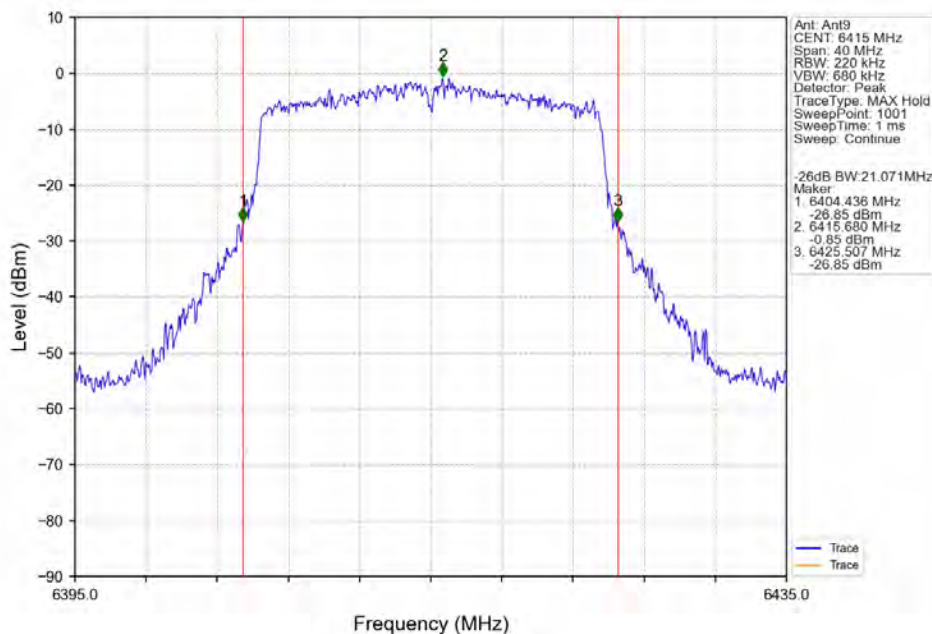
802.11ax(HEW20) LCH 5955MHz RU242 Left Ant9 NTNV



802.11ax(HEW20) MCH 6175MHz RU242 Left Ant9 NTN



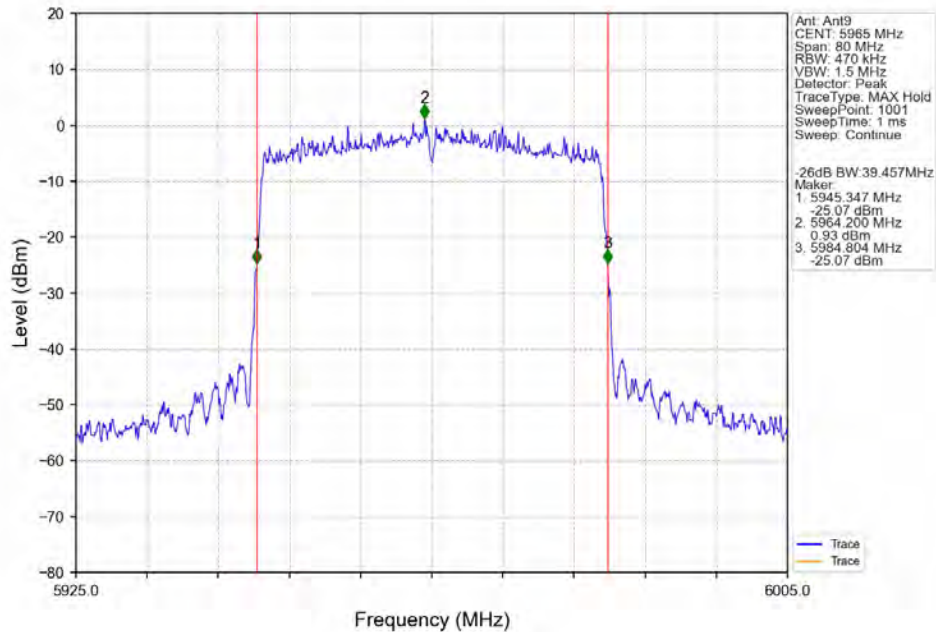
802.11ax(HEW20) HCH 6415MHz RU242 Left Ant9 NTN



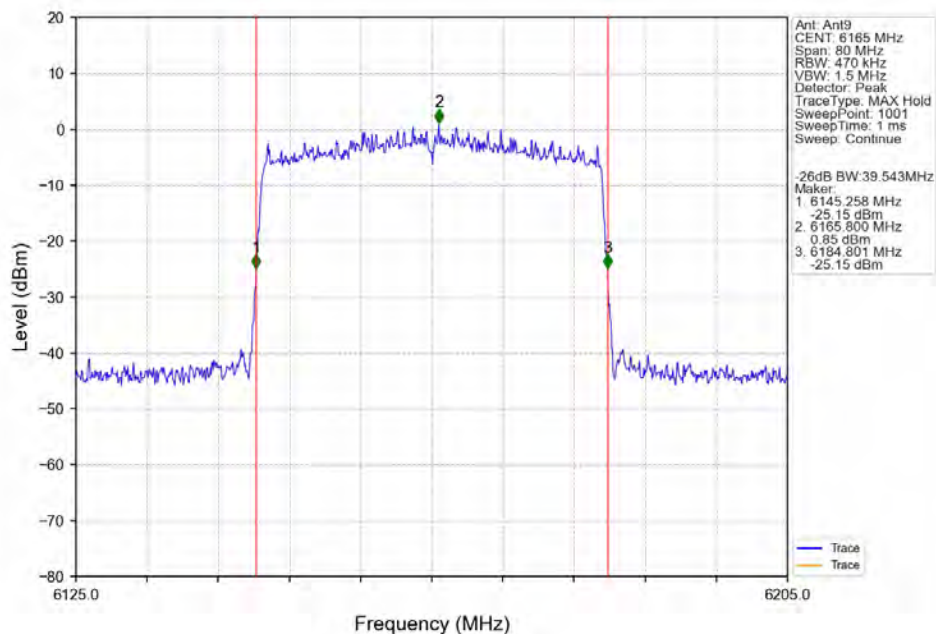
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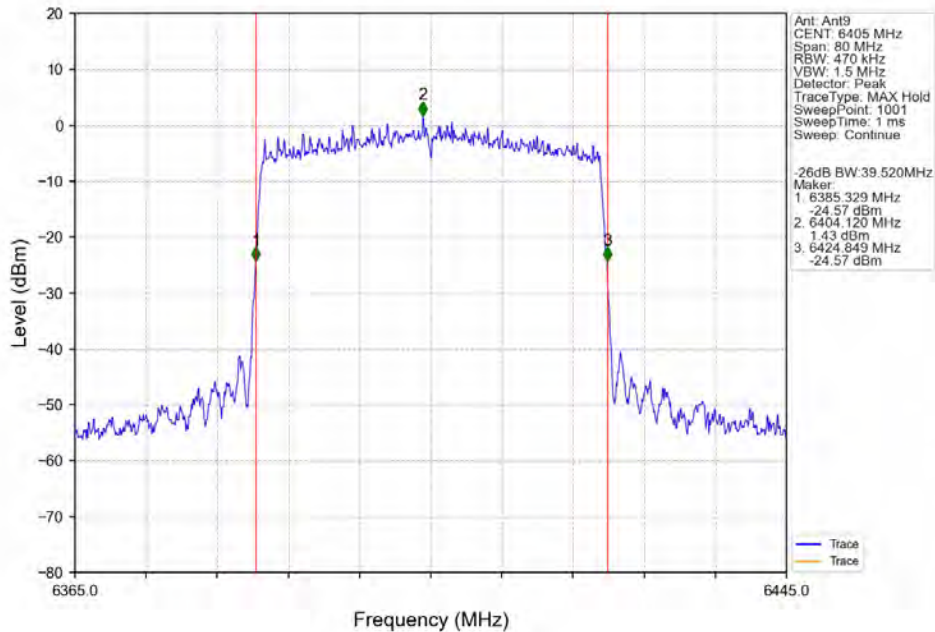
802.11ax(HEW40) LCH_5965MHz RU484 Left Ant9 NTN



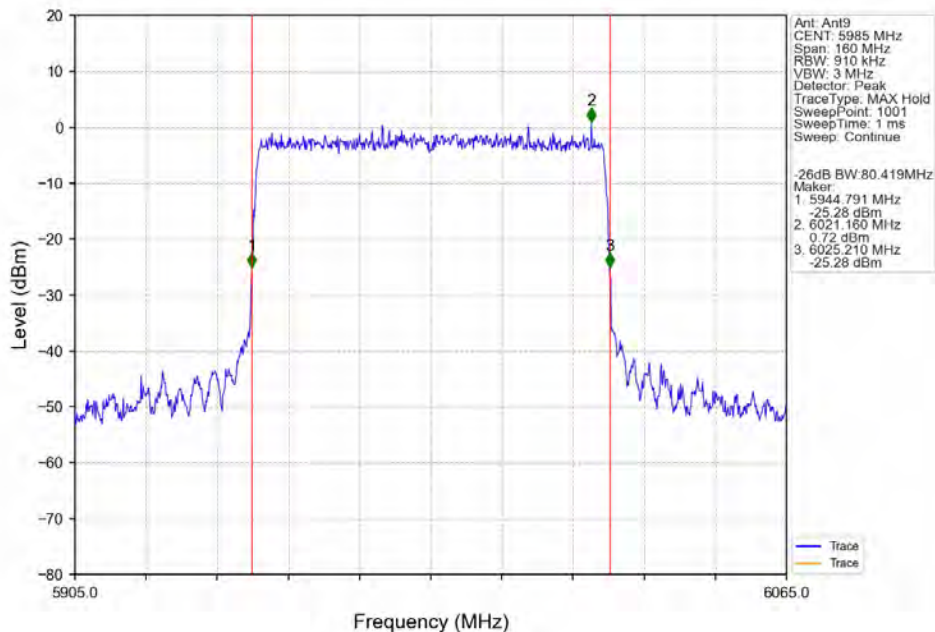
802.11ax(HEW40) MCH_6165MHz RU484 Left Ant9 NTN



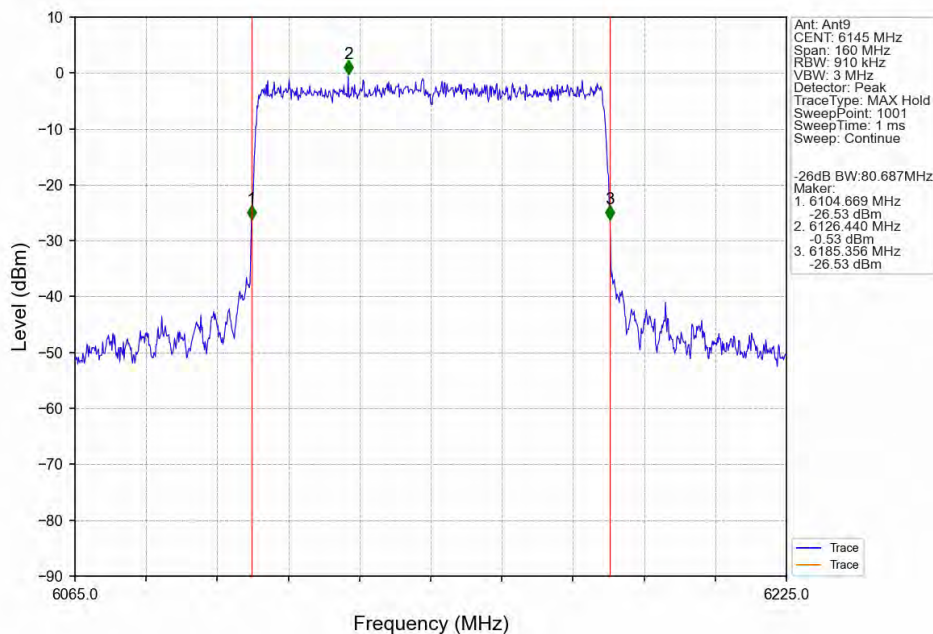
802.11ax(HEW40) HCH 6405MHz RU484 Left Ant9 NTN



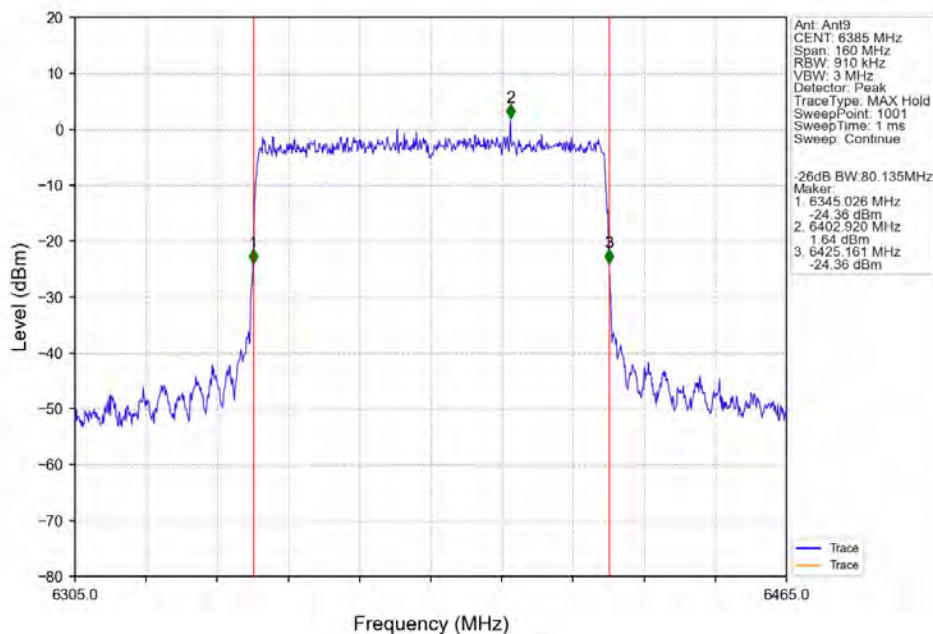
802.11ax(HEW80) LCH 5985MHz RU996 Left Ant9 NTN



802.11ax(HEW80) MCH 6145MHz RU996 Left Ant9 NTN



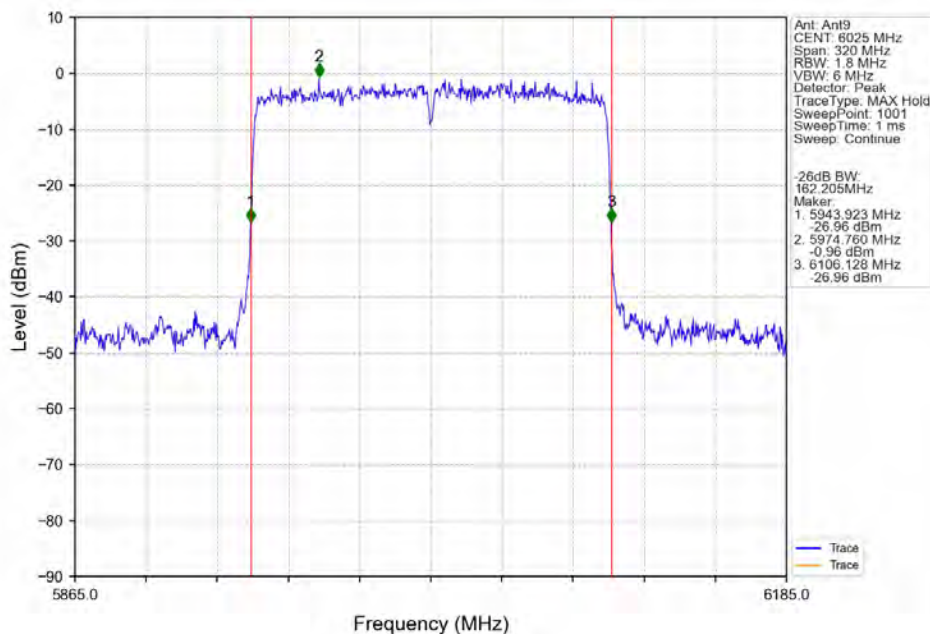
802.11ax(HEW80) HCH 6385MHz RU996 Left Ant9 NTN



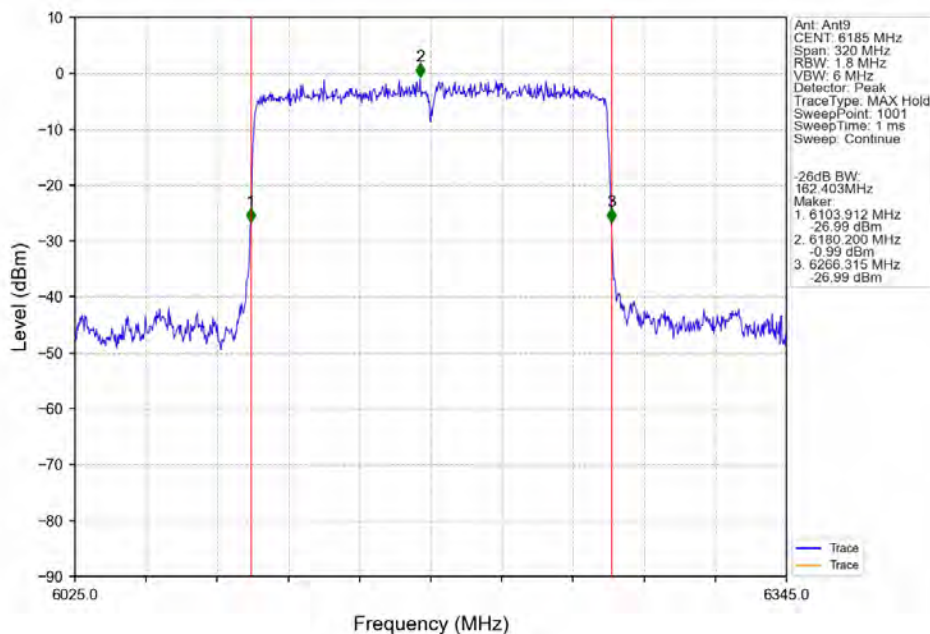
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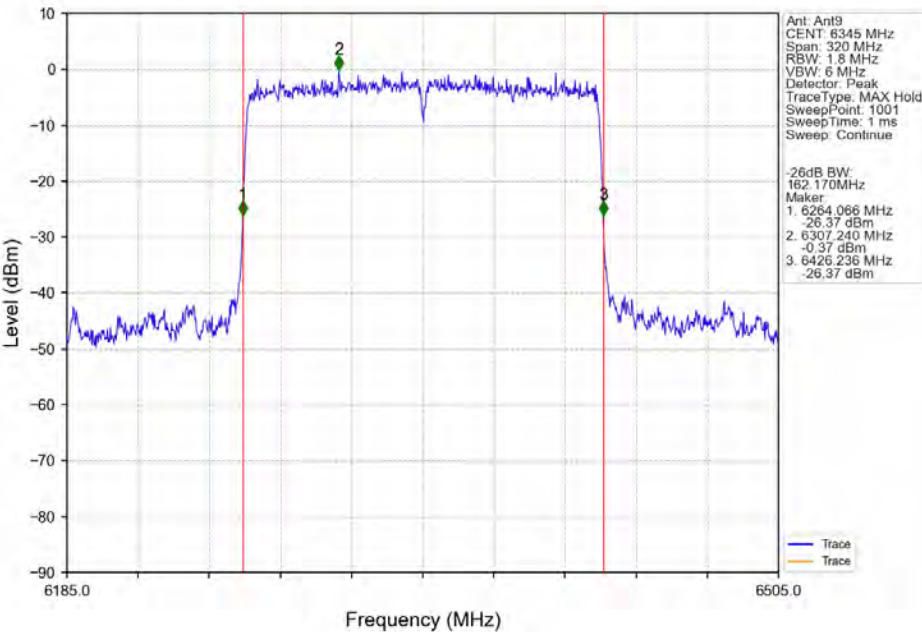
802.11ax(HEW160)_LCH_6025MHz_2xRU996_Left_Ant9_NTNV



802.11ax(HEW160)_MCH_6185MHz_2xRU996_Left_Ant9_NTNV



802.11ax(HEW160)_HCH_6345MHz_2xRU996 Left Ant9 NTN



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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
						ANT9	ANT8	MIMO	Limit	
NTNV	802.11a	MIMO	5955	/	/	7.02	7.61	10.34	/	Pass
			6175	/	/	7.61	7.07	10.36	/	Pass
			6415	/	/	7.54	7.00	10.29	/	Pass
	802.11ax (HEW20)	MIMO	5955	RU26	Left	-4.63	-5.00	-1.80	/	Pass
				RU52	Left	-1.40	-1.22	1.70	/	Pass
				RU106	Left	1.70	1.61	4.67	/	Pass
				RU242	Left	7.05	7.64	10.37	/	Pass
			6175	RU26	Mid	-4.23	-4.55	-1.38	/	Pass
				RU52	Mid	-1.04	-1.24	1.87	/	Pass
				RU106	Left	1.53	1.42	4.49	/	Pass
				RU242	Left	7.43	7.02	10.24	/	Pass
			6415	RU26	Right	-4.00	-4.84	-1.39	/	Pass
				RU52	Right	-1.07	-1.38	1.79	/	Pass
				RU106	Right	1.93	1.51	4.74	/	Pass
				RU242	Left	7.36	7.39	10.39	/	Pass
	802.11ax (HEW40)	MIMO	5965	RU242	Left	7.65	7.89	10.78	/	Pass
				RU484	Left	7.65	7.85	10.76	/	Pass
			6165	RU242	Left	7.74	7.35	10.56	/	Pass
				RU484	Left	7.85	7.47	10.67	/	Pass
	802.11ax (HEW80)	MIMO	6405	RU242	Right	8.08	7.60	10.86	/	Pass
				RU484	Left	8.02	7.46	10.76	/	Pass
			5985	RU484	Left	8.64	8.79	11.73	/	Pass
				RU996	Left	8.24	8.50	11.38	/	Pass
			6145	RU484	Left	8.22	8.01	11.13	/	Pass
				RU996	Left	7.92	7.77	10.86	/	Pass
			6385	RU484	Right	8.77	8.01	11.42	/	Pass
				RU996	Left	8.27	7.61	10.96	/	Pass
	802.11ax (HEW160)	MIMO	6025	RU996	Left	7.39	7.49	10.45	/	Pass
				2xRU996	Left	7.04	7.06	10.06	/	Pass
			6185	RU996	Left	7.47	7.47	10.48	/	Pass
				2xRU996	Left	7.27	7.09	10.19	/	Pass
			6345	RU996	Right	7.91	7.47	10.71	/	Pass
				2xRU996	Left	7.36	7.07	10.23	/	Pass

Note1: Antenna Gain: Ant9: -2.00dBi; Ant8: -2.00dBi;

3.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	E.I.R.P (dBm)				Verdict
						ANT9	ANT8	MIMO	Limit	
NTNV	802.11a	MIMO	5955	/	/	5.02	5.61	8.34	<=24	Pass
			6175	/	/	5.61	5.07	8.36	<=24	Pass
			6415	/	/	5.54	5.00	8.29	<=24	Pass
	802.11ax (HEW20)	MIMO	5955	RU26	Left	-6.63	-7.00	-3.80	<=24	Pass
				RU52	Left	-3.40	-3.22	-0.30	<=24	Pass
				RU106	Left	-0.30	-0.39	2.67	<=24	Pass
				RU242	Left	5.05	5.64	8.37	<=24	Pass
			6175	RU26	Mid	-6.23	-6.55	-3.38	<=24	Pass
				RU52	Mid	-3.04	-3.24	-0.13	<=24	Pass
				RU106	Left	-0.47	-0.58	2.49	<=24	Pass
				RU242	Left	5.43	5.02	8.24	<=24	Pass
			6415	RU26	Right	-6.00	-6.84	-3.39	<=24	Pass
				RU52	Right	-3.07	-3.38	-0.21	<=24	Pass
				RU106	Right	-0.07	-0.49	2.74	<=24	Pass
				RU242	Left	5.36	5.39	8.39	<=24	Pass
	802.11ax (HEW40)	MIMO	5965	RU242	Left	5.65	5.89	8.78	<=24	Pass
				RU484	Left	5.65	5.85	8.76	<=24	Pass
			6165	RU242	Left	5.74	5.35	8.56	<=24	Pass
				RU484	Left	5.85	5.47	8.67	<=24	Pass
			6405	RU242	Right	6.08	5.60	8.86	<=24	Pass
				RU484	Left	6.02	5.46	8.76	<=24	Pass
	802.11ax (HEW80)	MIMO	5985	RU484	Left	6.64	6.79	9.73	<=24	Pass
				RU996	Left	6.24	6.50	9.38	<=24	Pass
			6145	RU484	Left	6.22	6.01	9.13	<=24	Pass
				RU996	Left	5.92	5.77	8.86	<=24	Pass
			6385	RU484	Right	6.77	6.01	9.42	<=24	Pass
				RU996	Left	6.27	5.61	8.96	<=24	Pass
	802.11ax (HEW160)	MIMO	6025	RU996	Left	5.39	5.49	8.45	<=24	Pass
				2xRU996	Left	5.04	5.06	8.06	<=24	Pass
			6185	RU996	Left	5.47	5.47	8.48	<=24	Pass
				2xRU996	Left	5.27	5.09	8.19	<=24	Pass
			6345	RU996	Right	5.91	5.47	8.71	<=24	Pass
				2xRU996	Left	5.36	5.07	8.23	<=24	Pass
Note1: Antenna Gain: Ant9: -2.00dBi; Ant8: -2.00dBi; Note2: E.I.R.P = Measured Power + Antenna Gain										

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)				Verdict
						ANT9	ANT8	MIMO	Limit	
NTNV	802.11a	MIMO	5955	/	/	-2.66	-2.36	0.27	/	Pass
			6175	/	/	-2.07	-2.82	0.42	/	Pass
			6415	/	/	-2.41	-2.82	0.28	/	Pass
	802.11ax (HEW20)	MIMO	5955	RU26	Left	-7.04	-6.90	-4.07	/	Pass
				RU52	Left	-8.01	-8.10	-5.15	/	Pass
				RU106	Left	-6.56	-6.86	-3.77	/	Pass
				RU242	Left	-3.40	-2.75	-0.35	/	Pass
			6175	RU26	Mid	-8.63	-7.61	-5.12	/	Pass
				RU52	Mid	-6.91	-6.54	-3.84	/	Pass
				RU106	Left	-7.05	-6.68	-3.95	/	Pass
				RU242	Left	-2.47	-3.33	-0.02	/	Pass
			6415	RU26	Right	-7.00	-6.21	-3.61	/	Pass
				RU52	Right	-6.40	-5.78	-3.15	/	Pass
				RU106	Right	-6.57	-5.99	-3.36	/	Pass
				RU242	Left	-2.66	-2.80	0.16	/	Pass
	802.11ax (HEW40)	MIMO	5965	RU242	Left	-3.88	-3.73	-0.97	/	Pass
				RU484	Left	-5.46	-5.44	-2.69	/	Pass
			6165	RU242	Left	-3.57	-3.94	-0.93	/	Pass
				RU484	Left	-5.56	-5.62	-2.83	/	Pass
			6405	RU242	Right	-3.42	-3.90	-0.78	/	Pass
				RU484	Left	-5.09	-5.86	-2.64	/	Pass
	802.11ax (HEW80)	MIMO	5985	RU484	Left	-5.78	-5.83	-3.02	/	Pass
				RU996	Left	-9.09	-8.82	-6.13	/	Pass
			6145	RU484	Left	-6.20	-6.58	-3.69	/	Pass
				RU996	Left	-9.66	-9.93	-7.00	/	Pass
			6385	RU484	Right	-5.85	-6.50	-3.45	/	Pass
				RU996	Left	-9.23	-9.60	-6.51	/	Pass
	802.11ax (HEW160)	MIMO	6025	RU996	Left	-9.93	-10.28	-7.14	/	Pass
				2xRU996	Left	-12.92	-12.96	-10.25	/	Pass
			6185	RU996	Left	-10.17	-9.97	-7.40	/	Pass
				2xRU996	Left	-12.69	-12.94	-10.01	/	Pass
			6345	RU996	Right	-9.57	-10.15	-7.23	/	Pass
				2xRU996	Left	-12.62	-13.24	-10.19	/	Pass

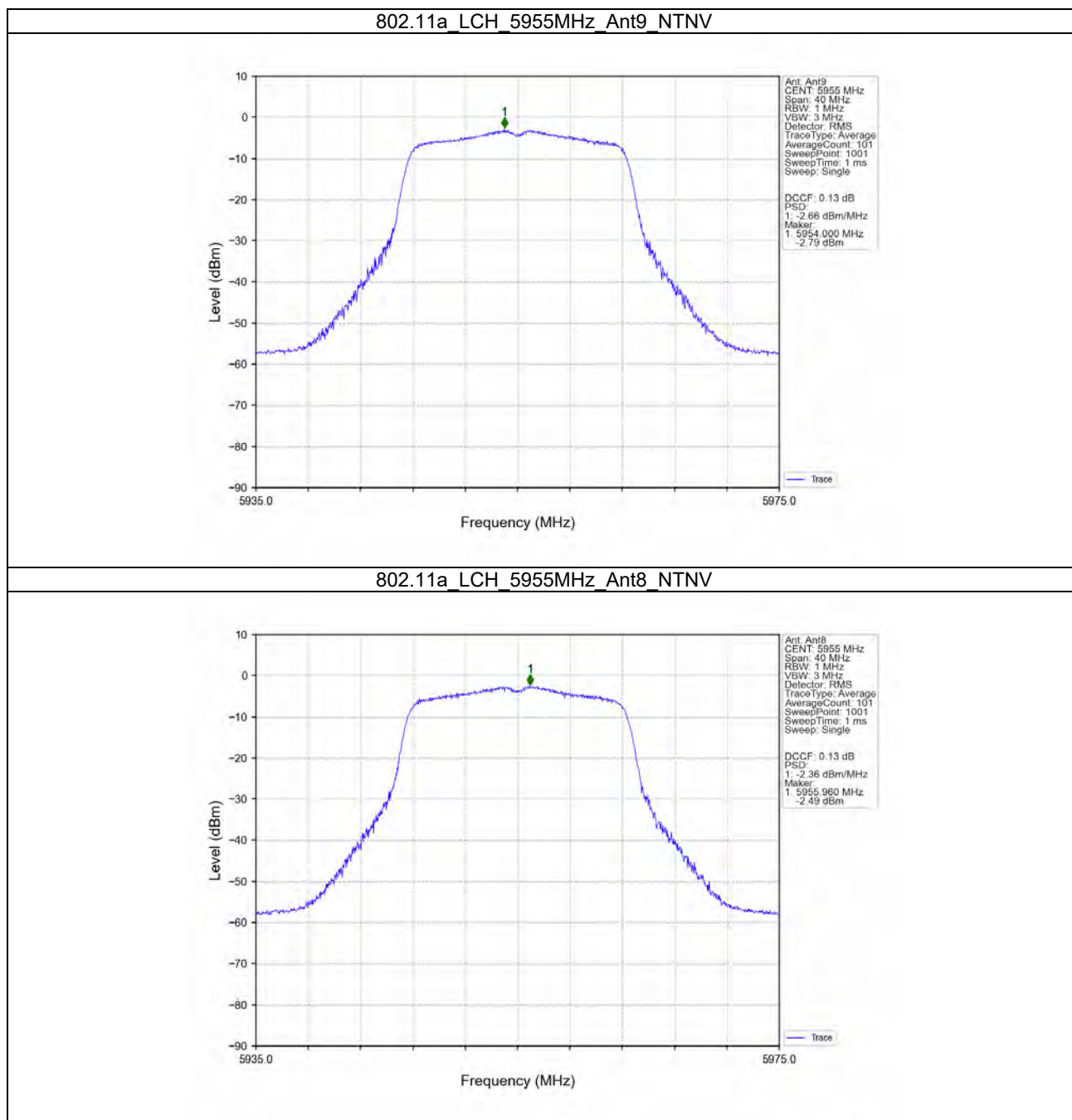
Note1: Antenna Gain: Ant9: -2.00dBi; Ant8: -2.00dBi;

4.1.2 E.I.R.PSD

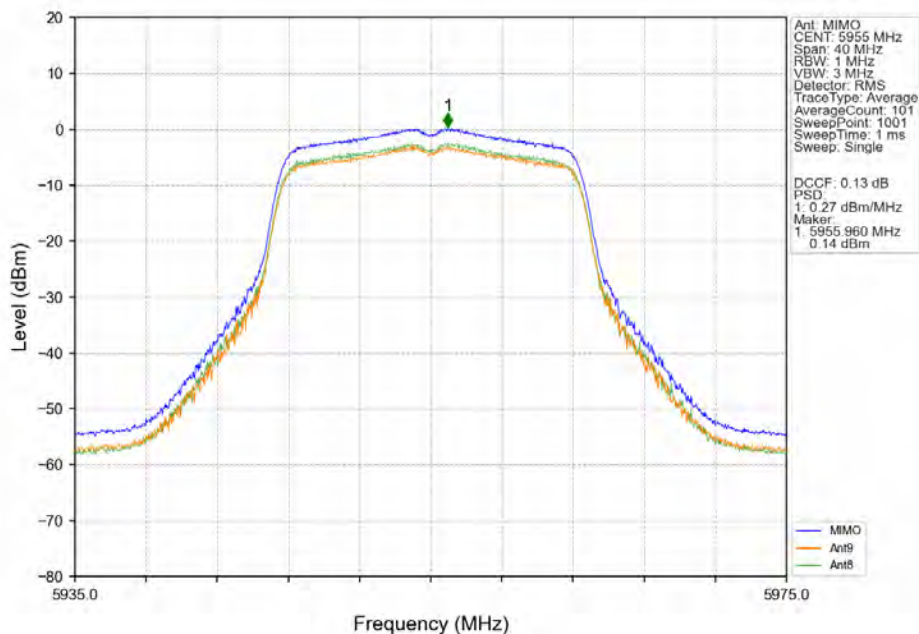
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum E.I.R.PSD (dBm/MHz)				Verdict
						ANT9	ANT8	MIMO	Limit	
NTNV	802.11a	MIMO	5955	/	/	-4.66	-4.36	-1.50	<=-1	Pass
			6175	/	/	-4.07	-4.82	-1.42	<=-1	Pass
			6415	/	/	-4.41	-4.82	-1.60	<=-1	Pass
	802.11ax (HEW20)	MIMO	5955	RU26	Left	-9.04	-8.90	-5.96	<=-1	Pass
				RU52	Left	-10.01	-10.10	-7.04	<=-1	Pass
				RU106	Left	-8.56	-8.86	-5.70	<=-1	Pass
				RU242	Left	-5.40	-4.75	-2.05	<=-1	Pass
			6175	RU26	Mid	-10.63	-9.61	-7.08	<=-1	Pass
				RU52	Mid	-8.91	-8.54	-5.71	<=-1	Pass
				RU106	Left	-9.05	-8.68	-5.85	<=-1	Pass
				RU242	Left	-4.47	-5.33	-1.87	<=-1	Pass
			6415	RU26	Right	-9.00	-8.21	-5.58	<=-1	Pass
				RU52	Right	-8.40	-7.78	-5.07	<=-1	Pass
				RU106	Right	-8.57	-7.99	-5.26	<=-1	Pass
				RU242	Left	-4.66	-4.80	-1.72	<=-1	Pass
	802.11ax (HEW40)	MIMO	5965	RU242	Left	-5.88	-5.73	-2.79	<=-1	Pass
				RU484	Left	-7.46	-7.44	-4.44	<=-1	Pass
			6165	RU242	Left	-5.57	-5.94	-2.74	<=-1	Pass
				RU484	Left	-7.56	-7.62	-4.58	<=-1	Pass
			6405	RU242	Right	-5.42	-5.90	-2.64	<=-1	Pass
				RU484	Left	-7.09	-7.86	-4.45	<=-1	Pass
	802.11ax (HEW80)	MIMO	5985	RU484	Left	-7.78	-7.83	-4.79	<=-1	Pass
				RU996	Left	-11.09	-10.82	-7.94	<=-1	Pass
			6145	RU484	Left	-8.20	-8.58	-5.38	<=-1	Pass
				RU996	Left	-11.66	-11.93	-8.78	<=-1	Pass
			6385	RU484	Right	-7.85	-8.50	-5.15	<=-1	Pass
				RU996	Left	-11.23	-11.60	-8.40	<=-1	Pass
	802.11ax (HEW160)	MIMO	6025	RU996	Left	-11.93	-12.28	-9.09	<=-1	Pass
				2xRU996	Left	-14.92	-14.96	-11.93	<=-1	Pass
			6185	RU996	Left	-12.17	-11.97	-9.06	<=-1	Pass
				2xRU996	Left	-14.69	-14.94	-11.80	<=-1	Pass
			6345	RU996	Right	-11.57	-12.15	-8.84	<=-1	Pass
				2xRU996	Left	-14.62	-15.24	-11.91	<=-1	Pass
Note1: Antenna Gain: Ant9: -2.00dBi; Ant8: -2.00dBi; Note2: E.I.R.PSD = Measured PSD + Antenna Gain										

4.2 Test Graph

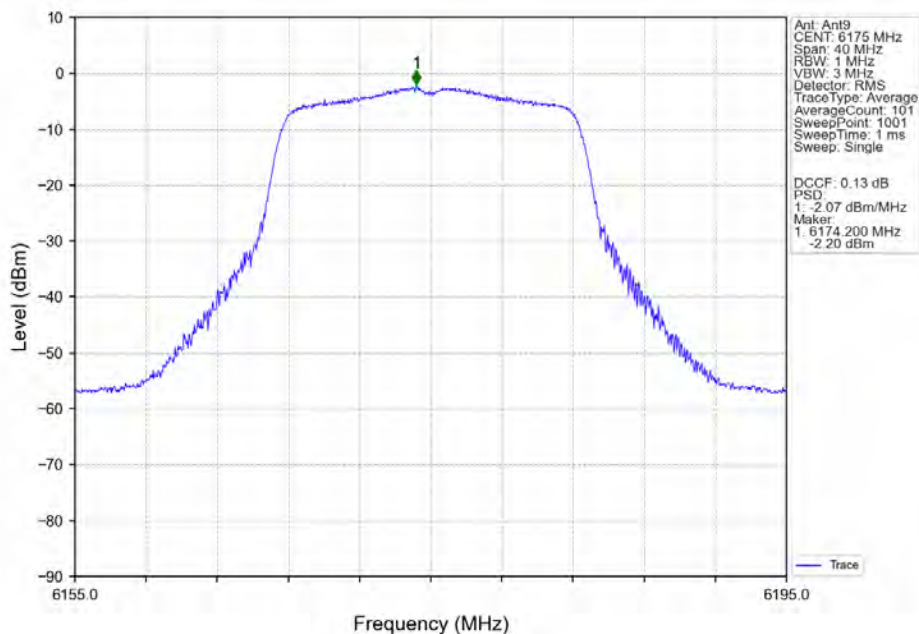
4.2.1 PSD



802.11a_LCH_5955MHz_MIMO_NTNV



802.11a_MCH_6175MHz_Ant9_NTNV



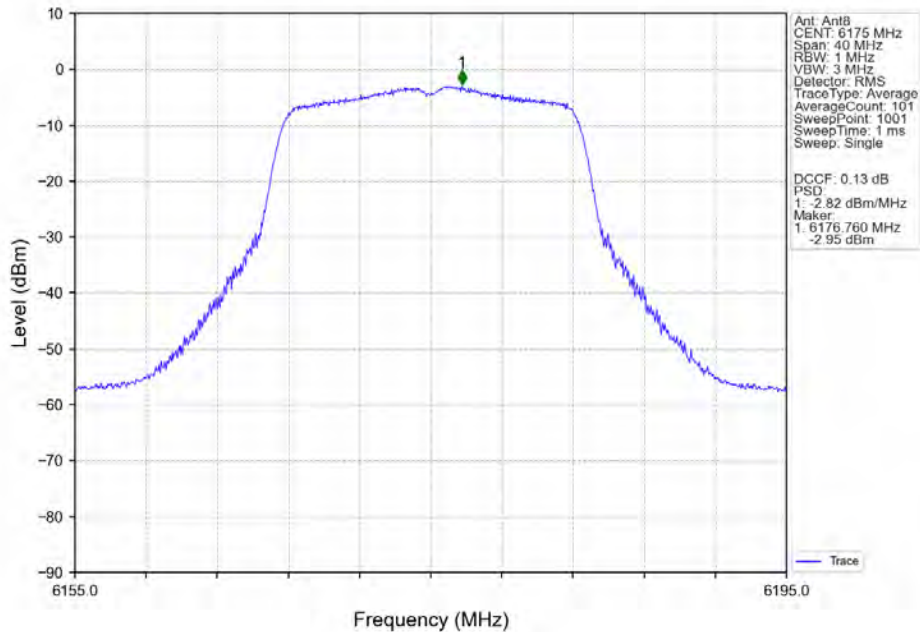
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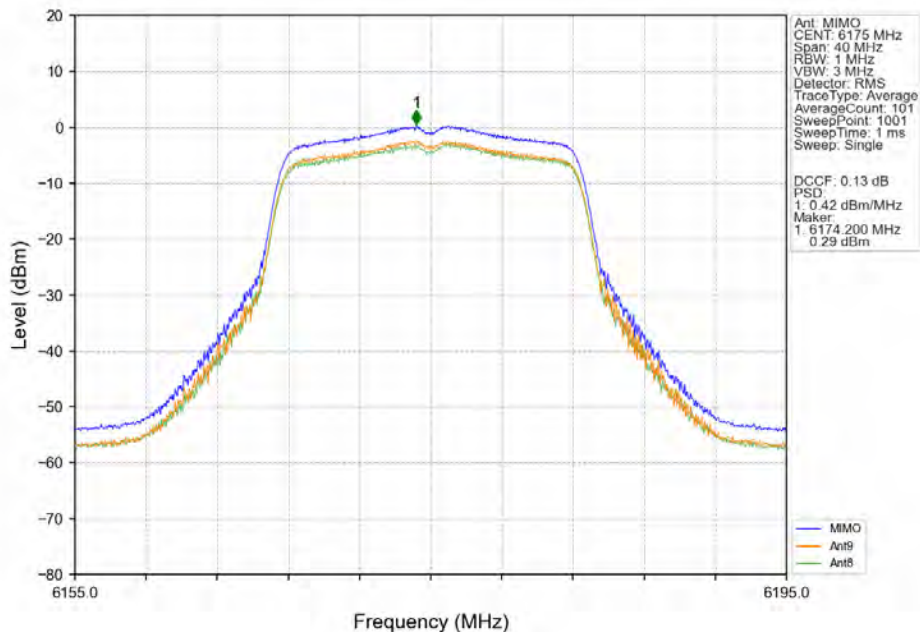
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802.11a MCH 6175MHz Ant8 NTNV



802.11a MCH 6175MHz MIMO NTNV



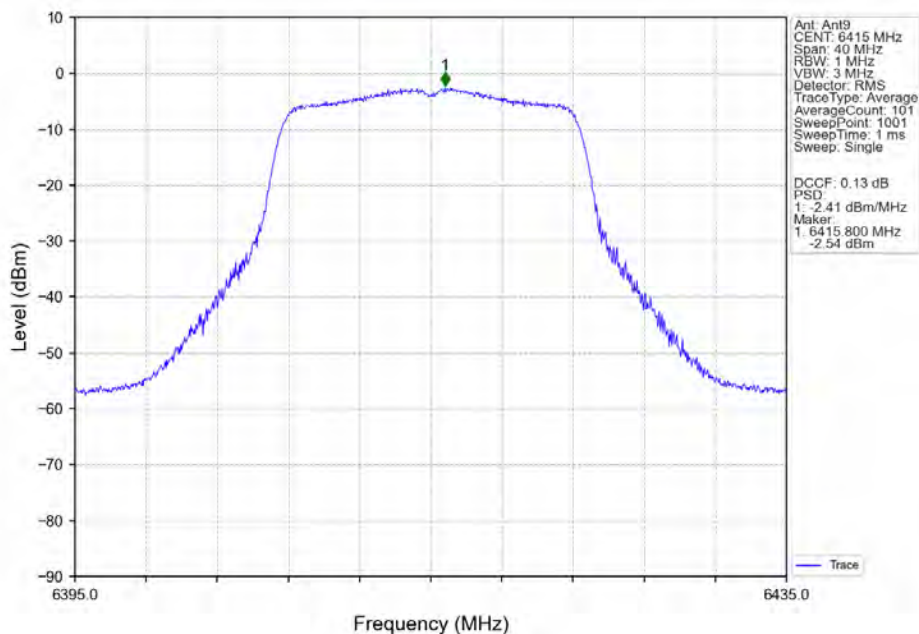
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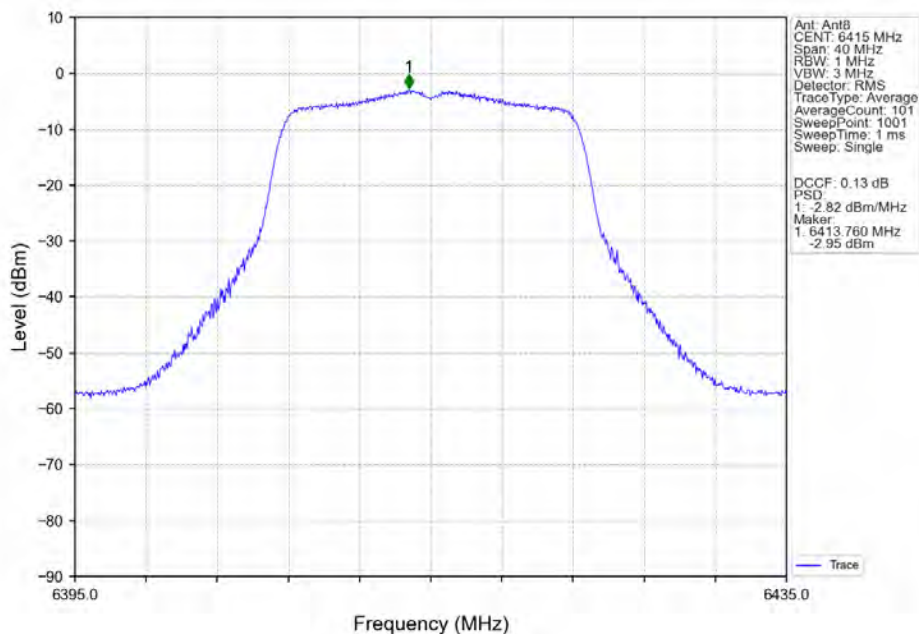
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802.11a HCH 6415MHz Ant9 NTN



802.11a HCH 6415MHz Ant8 NTN



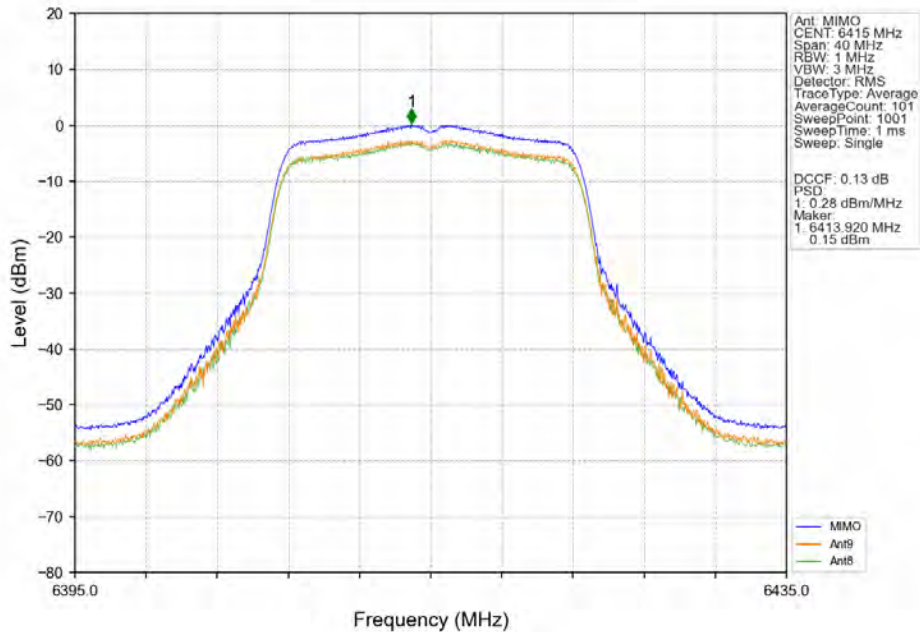
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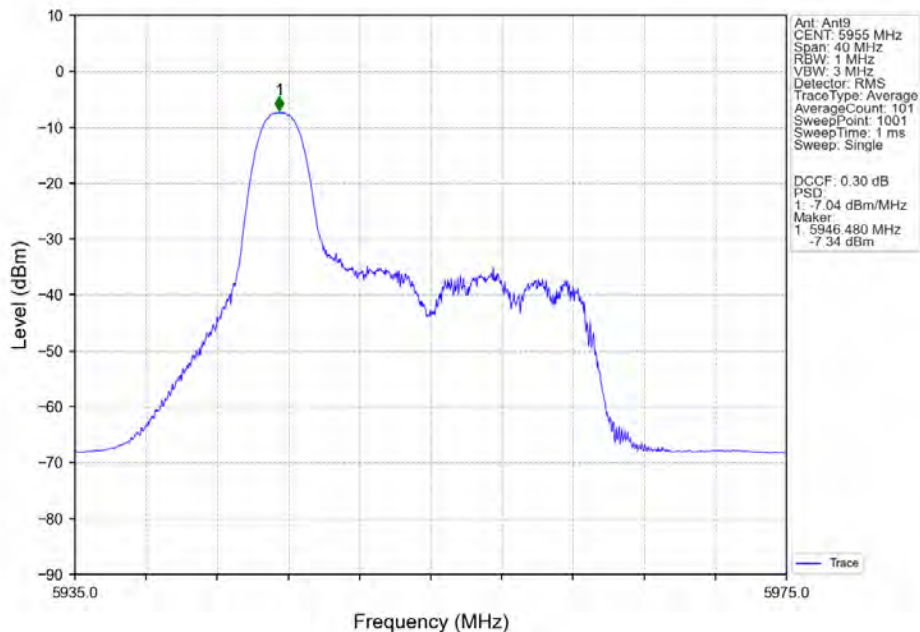
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802.11a_HCH_6415MHz_MIMO_NTNV



802.11ax(HEW20)_LCH_5955MHz_RU26_Left_Ant9_NTNV



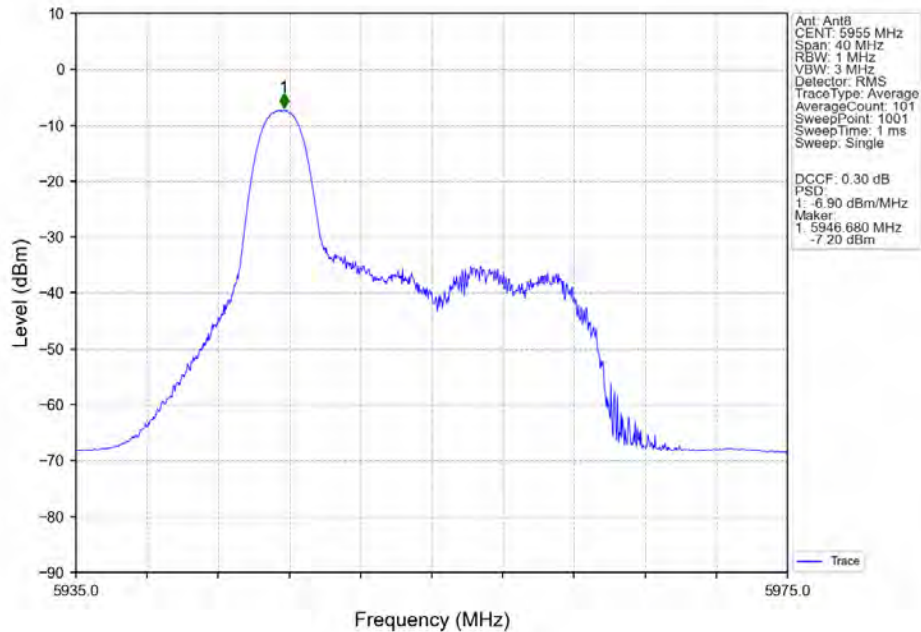
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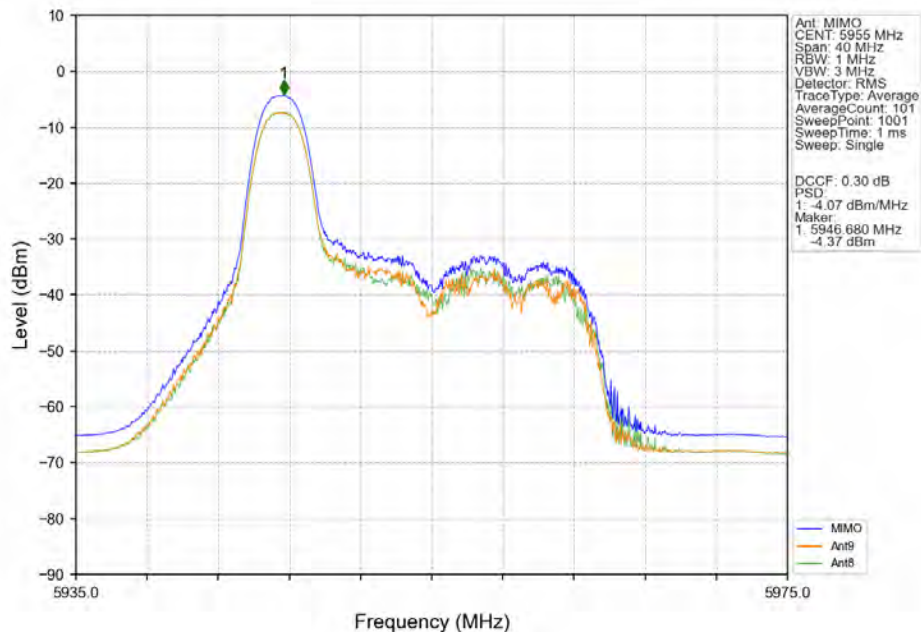
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802.11ax(HEW20) LCH_5955MHz RU26 Left Ant8 NTN



802.11ax(HEW20) LCH_5955MHz RU26 Left MIMO NTN



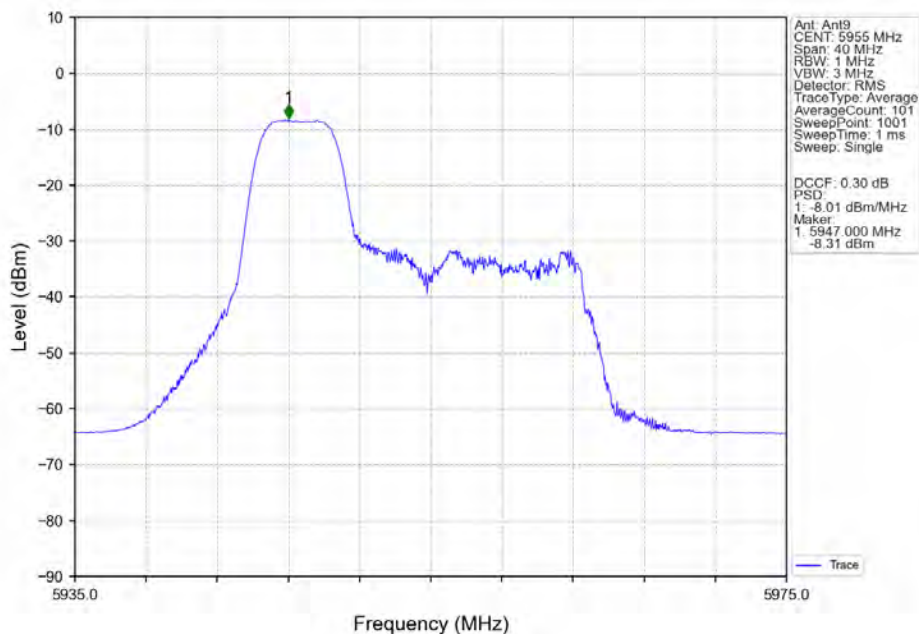
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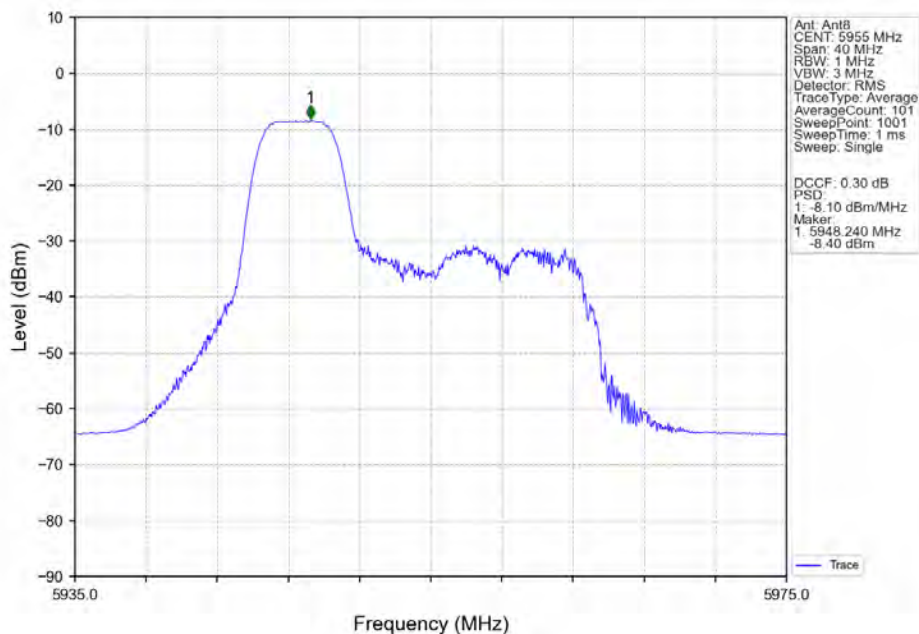
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802.11ax(HEW20) LCH 5955MHz RU52 Left Ant9 NTV



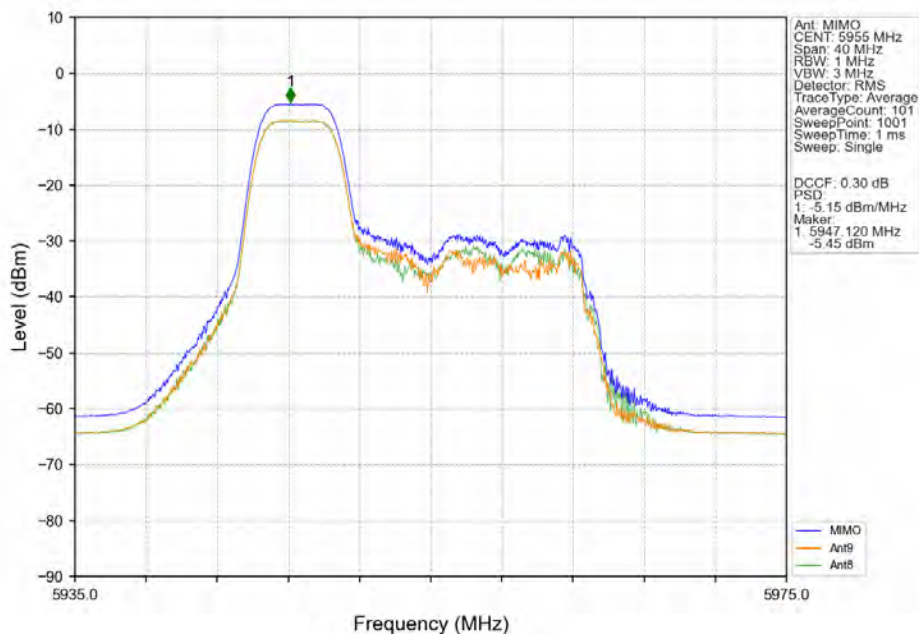
802.11ax(HEW20) LCH 5955MHz RU52 Left Ant8 NTV



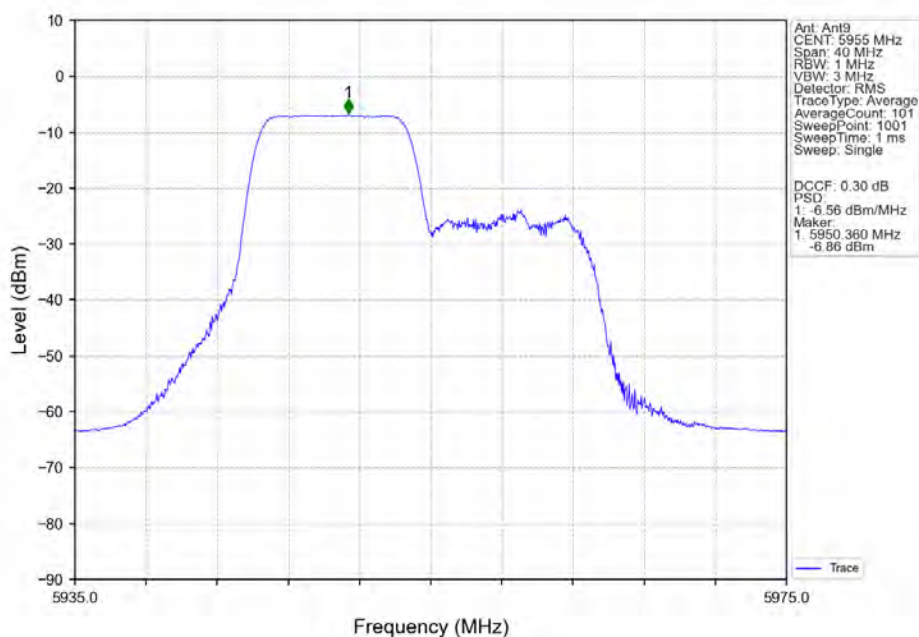
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802.11ax(HEW20) LCH_5955MHz_RU52_Left_MIMO_NTNV



802.11ax(HEW20) LCH_5955MHz_RU106_Left_Ant9_NTNV



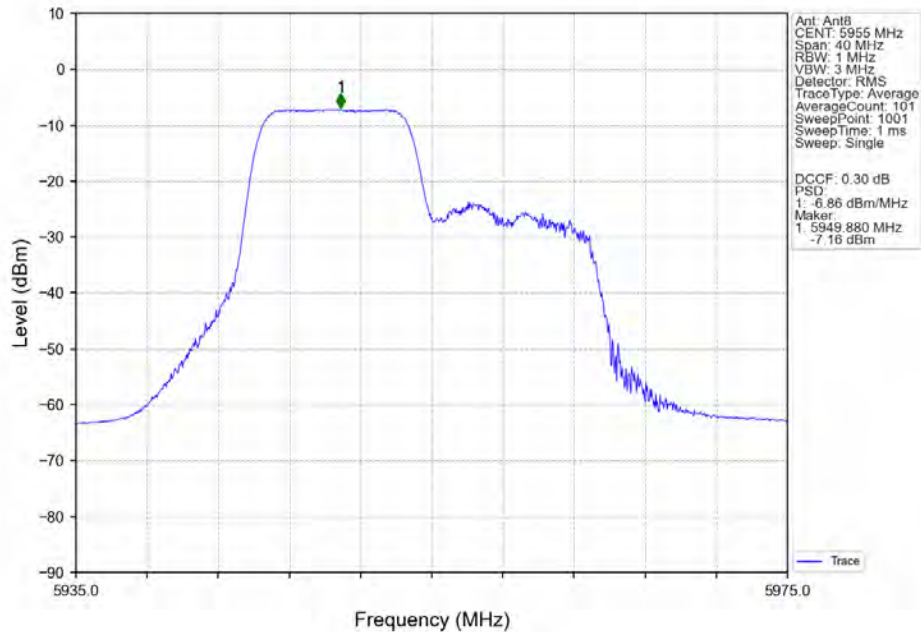
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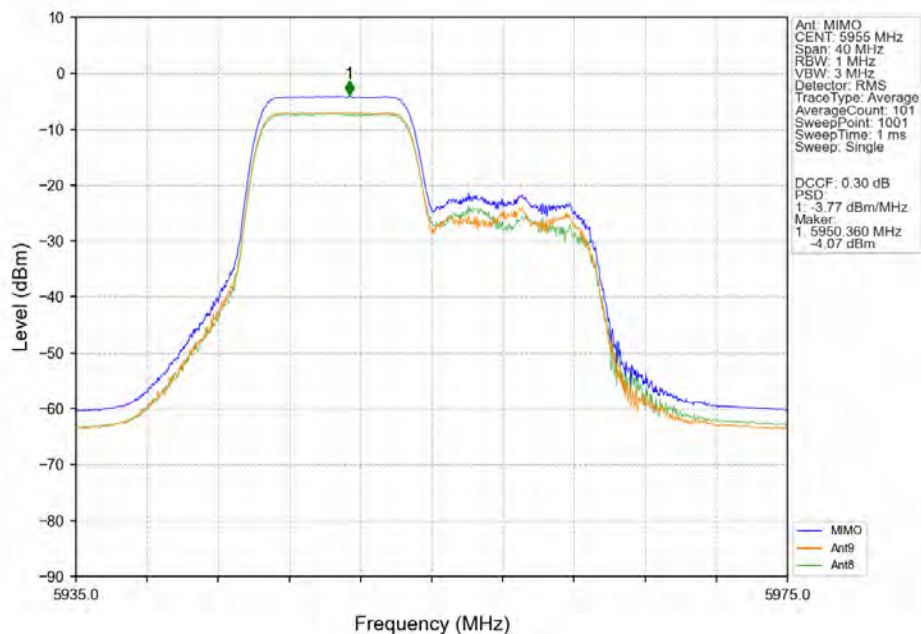
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802.11ax(HEW20) LCH 5955MHz RU106 Left Ant8 NTN



802.11ax(HEW20) LCH 5955MHz RU106 Left MIMO NTN



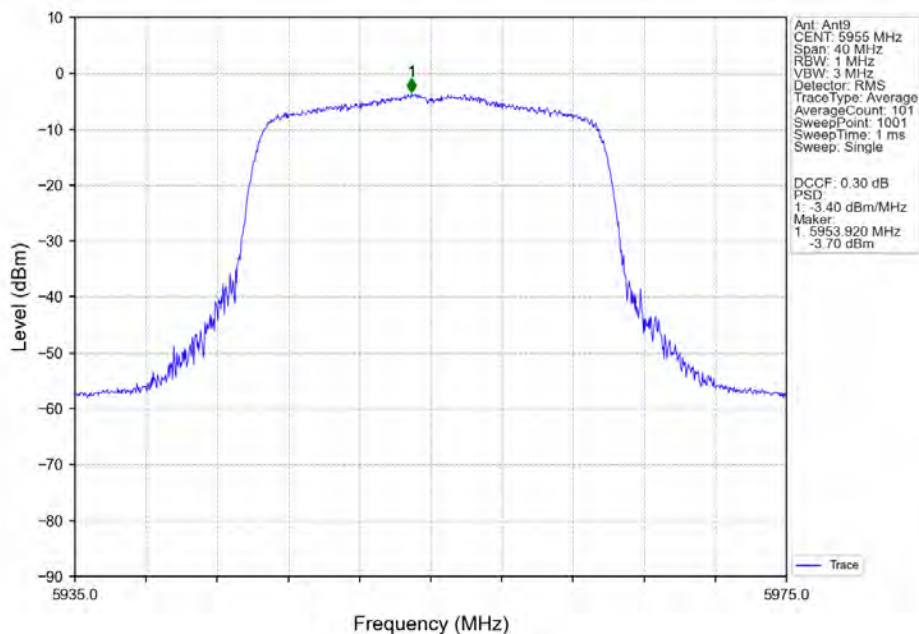
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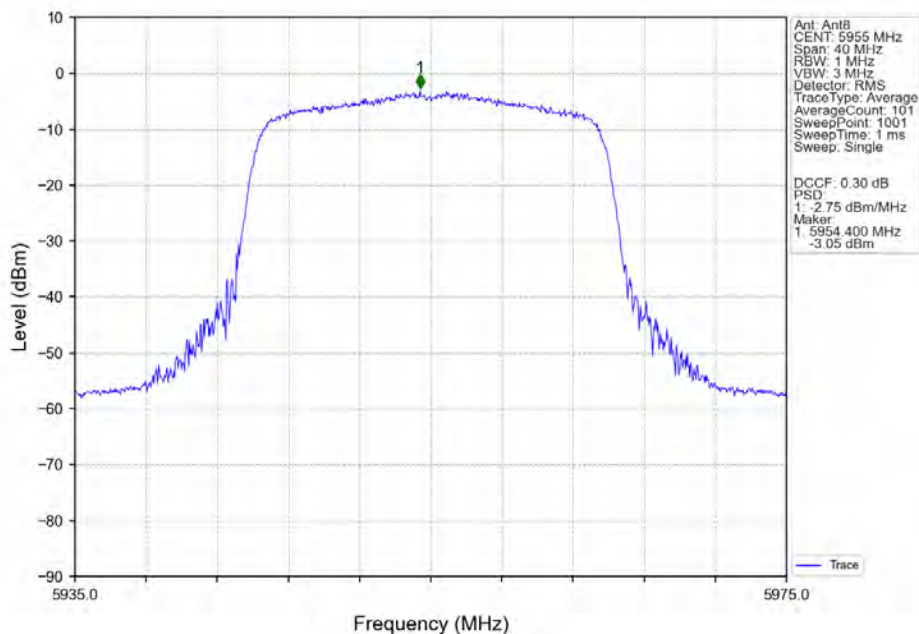
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802.11ax(HEW20) LCH_5955MHz_RU242_Left_Ant9_NTNV



802.11ax(HEW20) LCH_5955MHz_RU242_Left_Ant8_NTNV



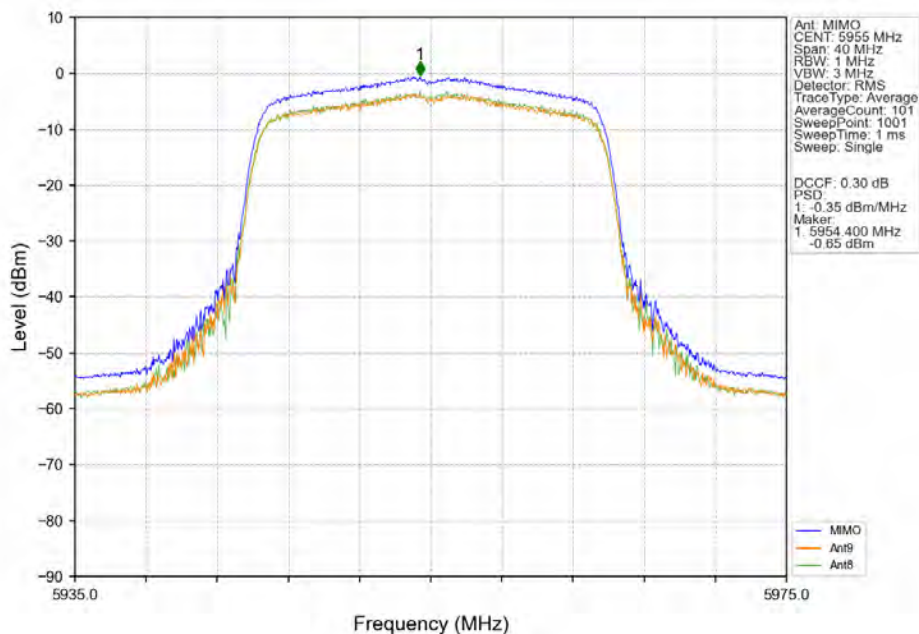
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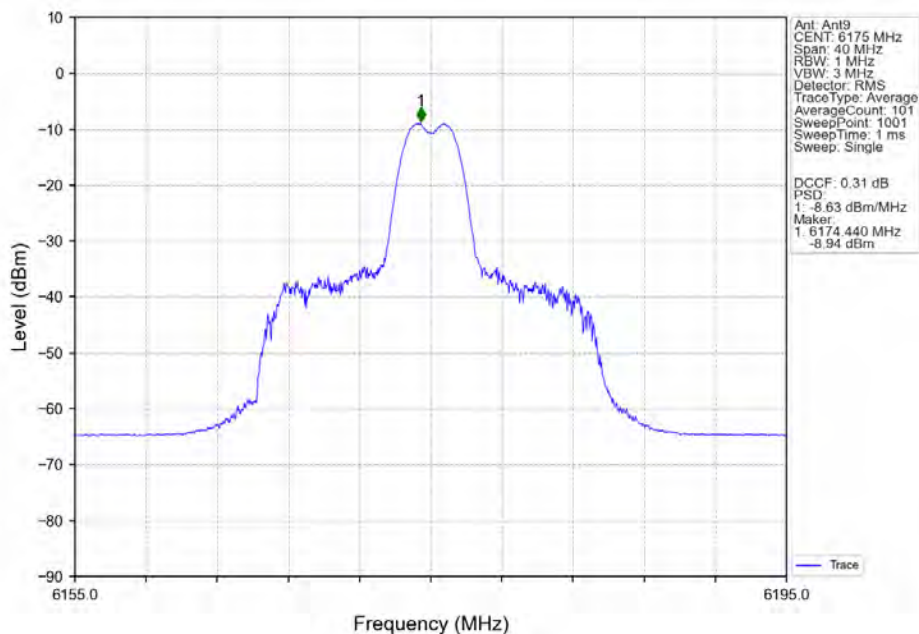
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802.11ax(HEW20)_LCH_5955MHz_RU242_Left_MIMO_NTNV



802.11ax(HEW20)_MCH_6175MHz_RU26_Mid_Ant9_NTNV



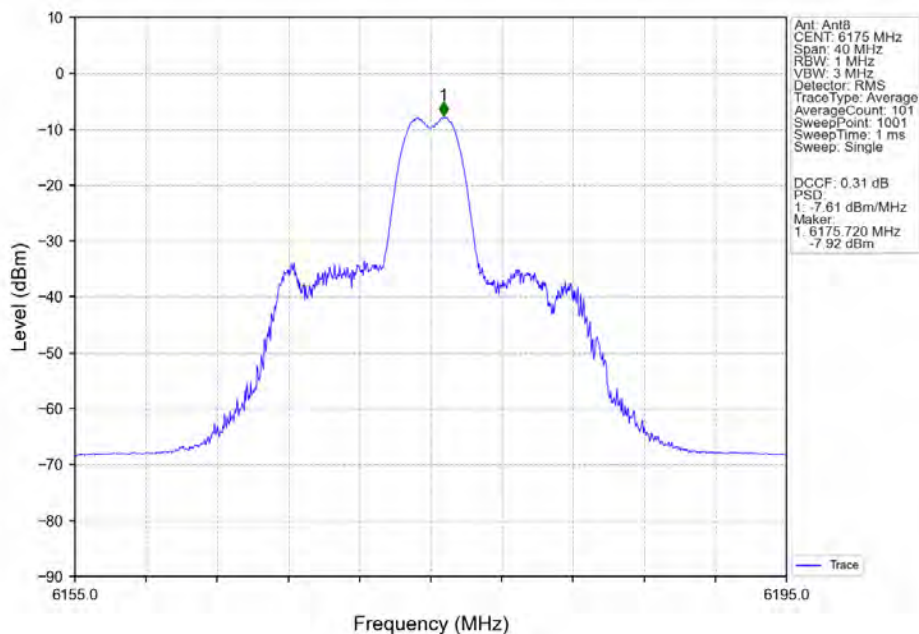
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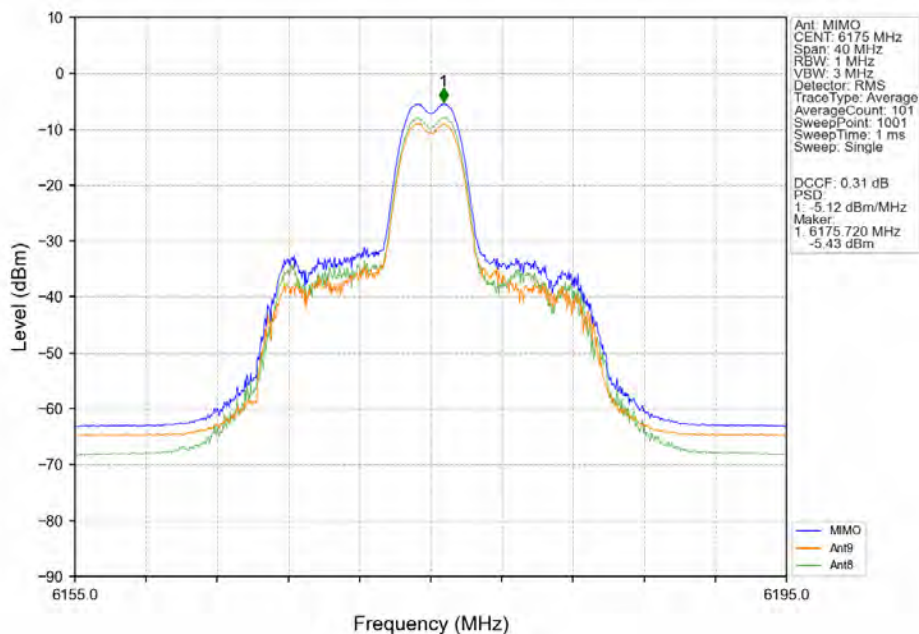
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802.11ax(HEW20) MCH_6175MHz_RU26_Mid_Ant8_NTNV



802.11ax(HEW20) MCH_6175MHz_RU26_Mid_MIMO_NTNV



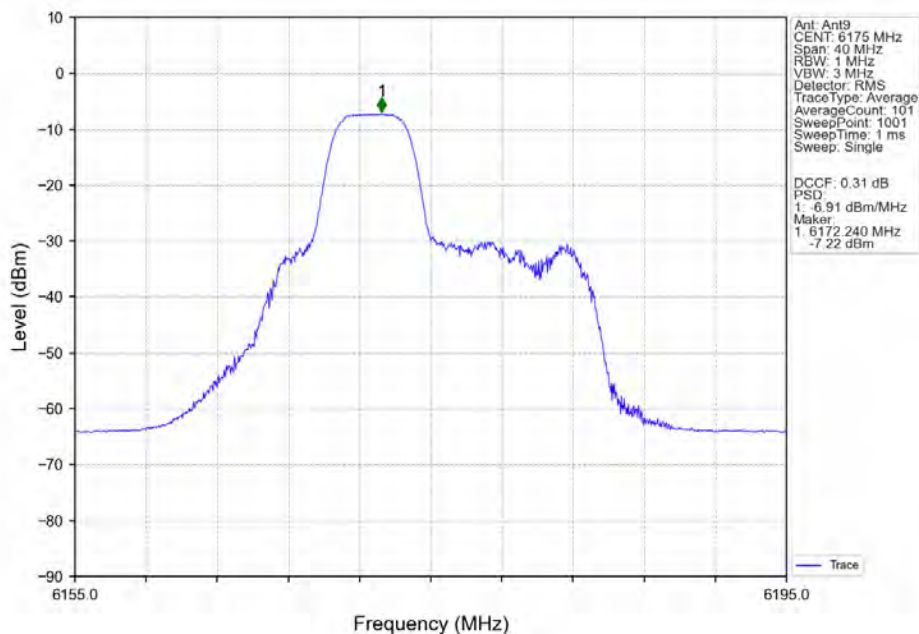
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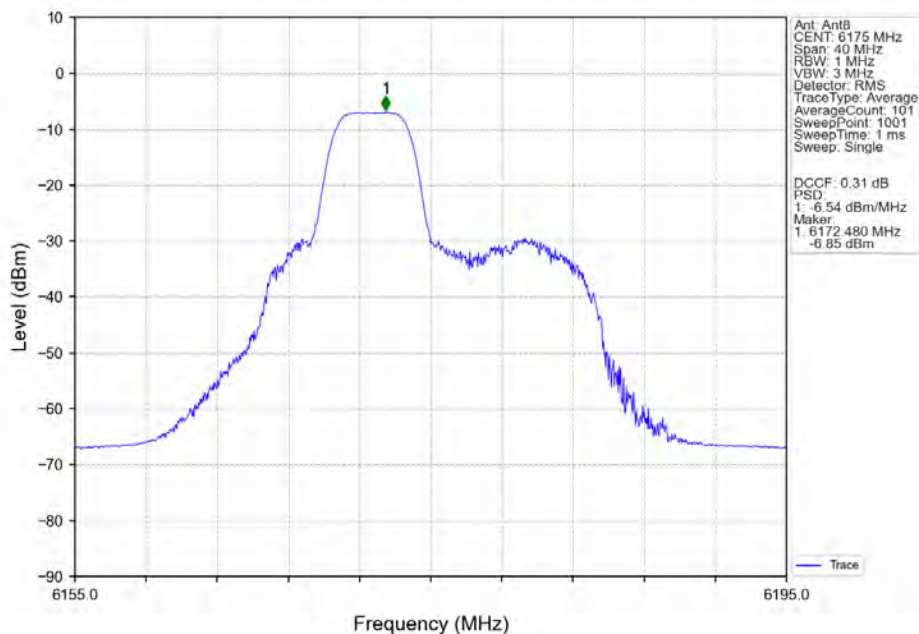
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802.11ax(HEW20)_MCH_6175MHz_RU52_Mid_Ant9_NTNV



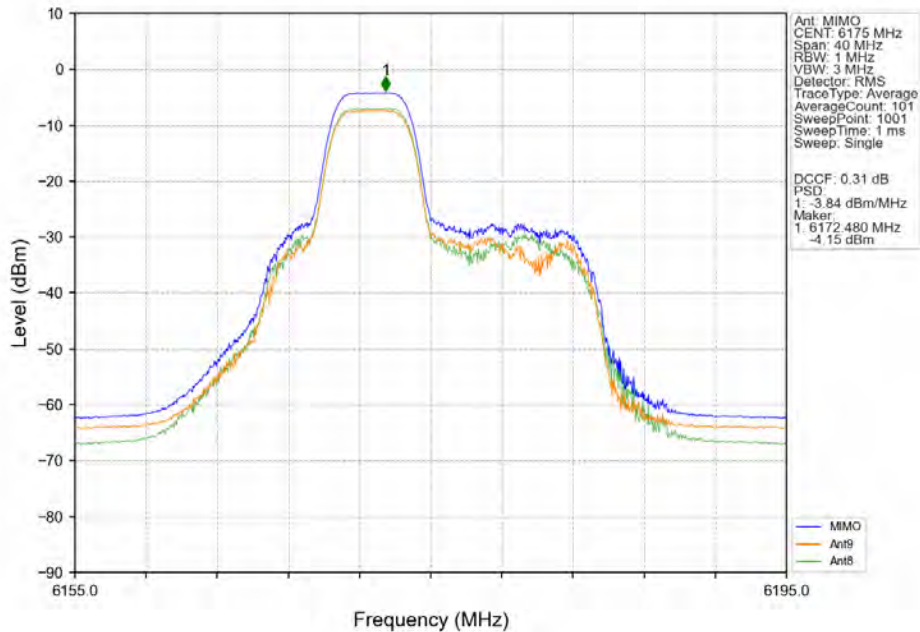
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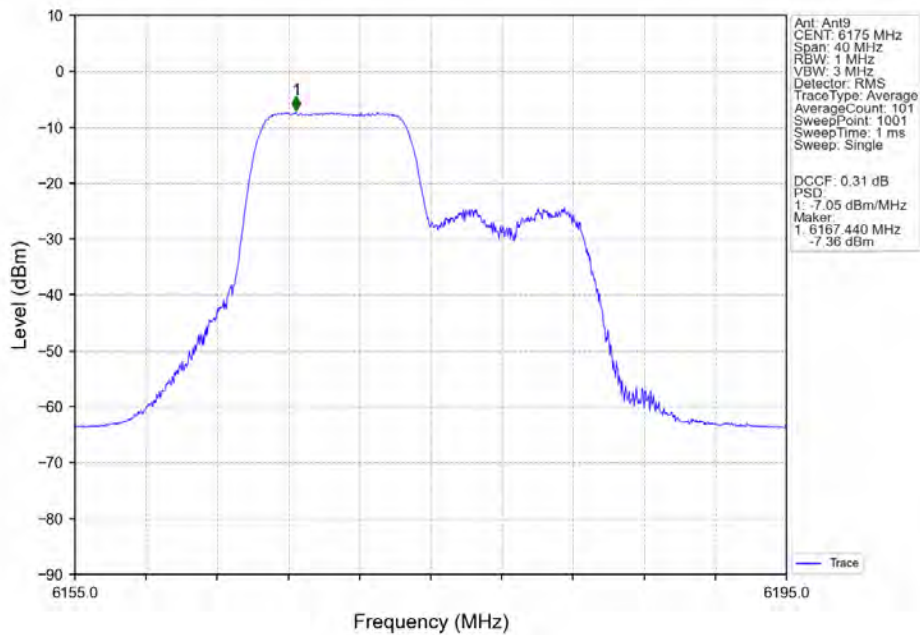
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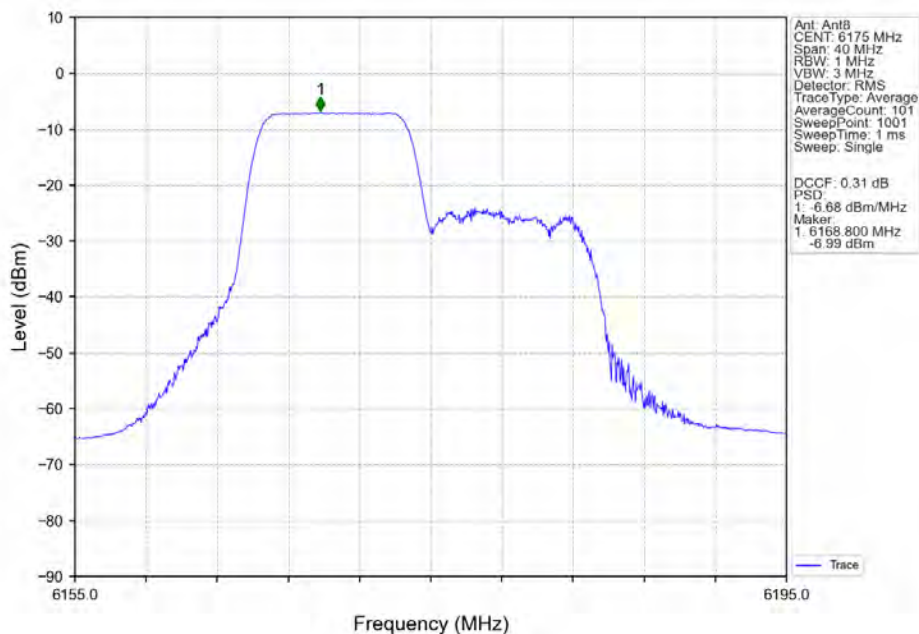
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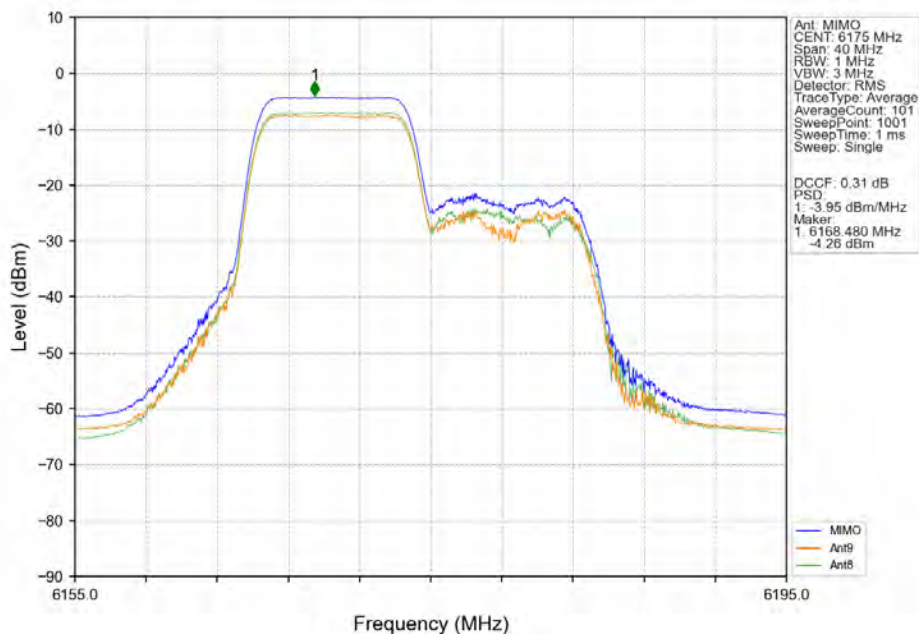
802.11ax(HEW20)_MCH_6175MHz_RU106_Left_Ant9_NTNV



802.11ax(HEW20)_MCH 6175MHz RU106_Left Ant8 NTN



802.11ax(HEW20)_MCH 6175MHz RU106_Left MIMO NTN



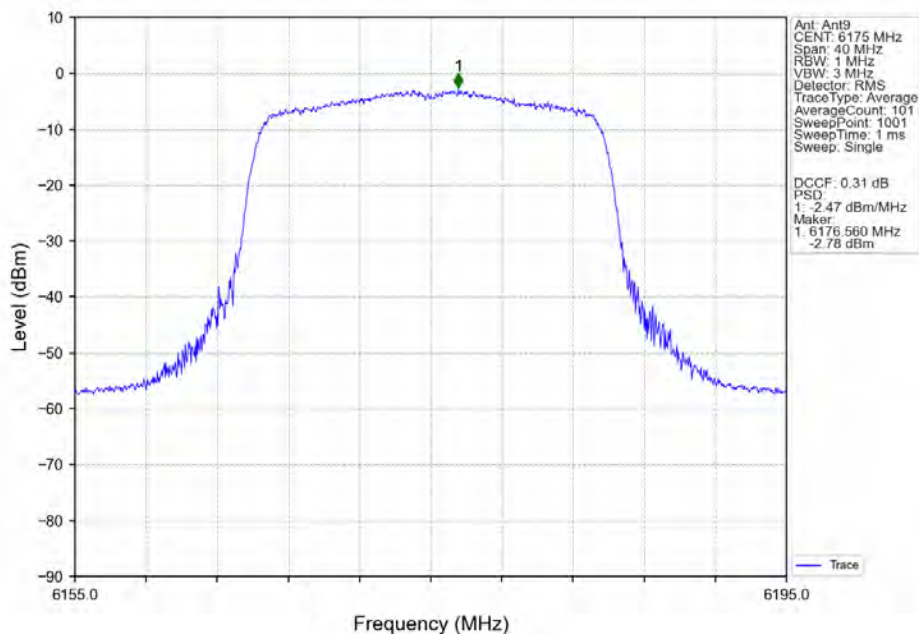
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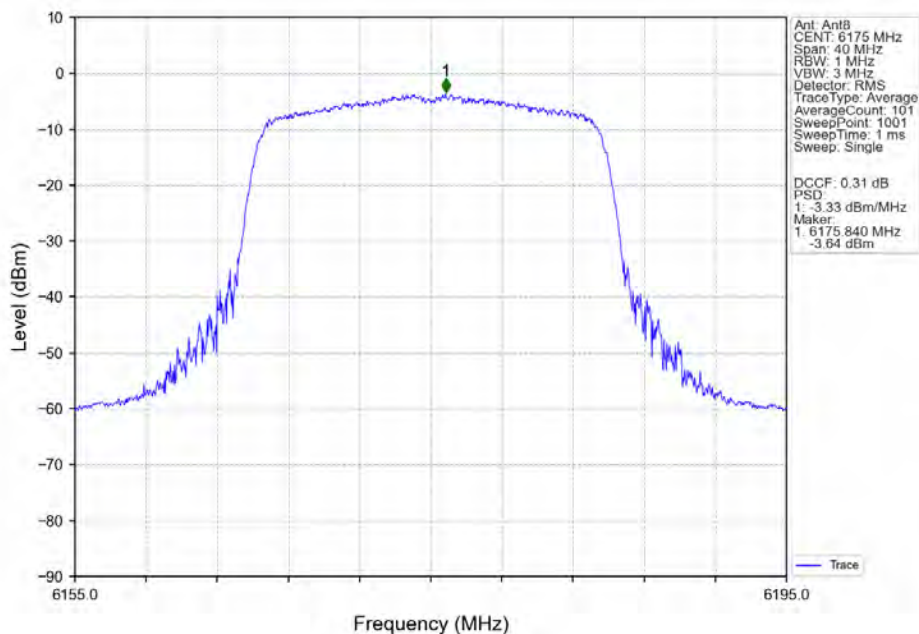
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802.11ax(HEW20)_MCH_6175MHz_RU242_Left_Ant9_NTNV



802.11ax(HEW20)_MCH_6175MHz_RU242_Left_Ant8_NTNV



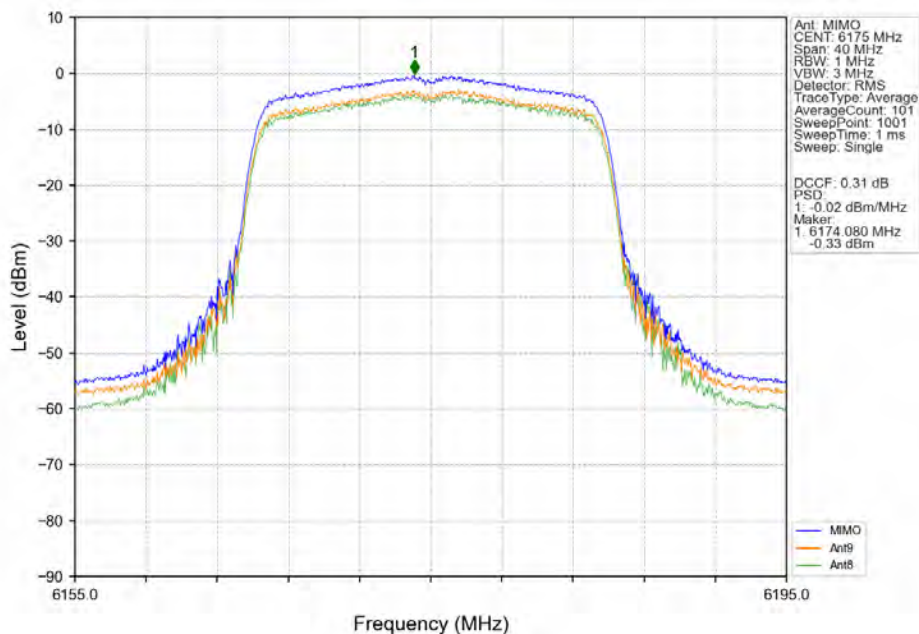
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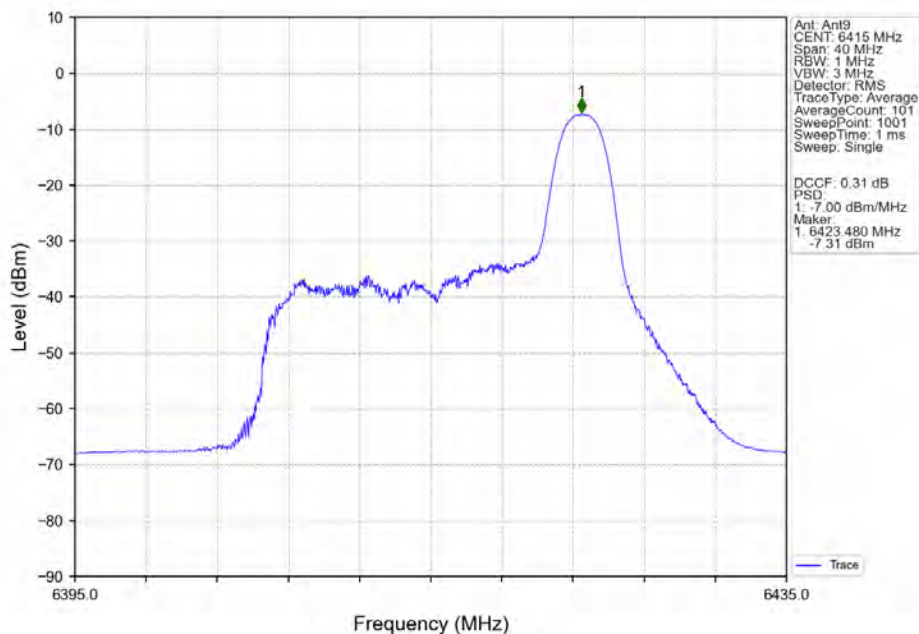
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802.11ax(HEW20) MCH_6175MHz_RU242_Left MIMO NTN



802.11ax(HEW20) HCH_6415MHz_RU26_Right_Ant9 NTN



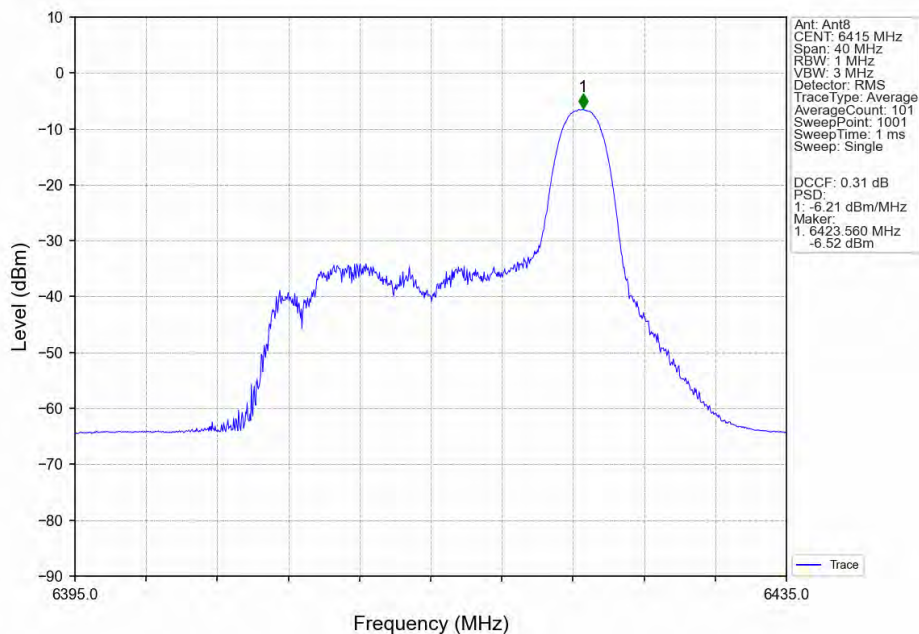
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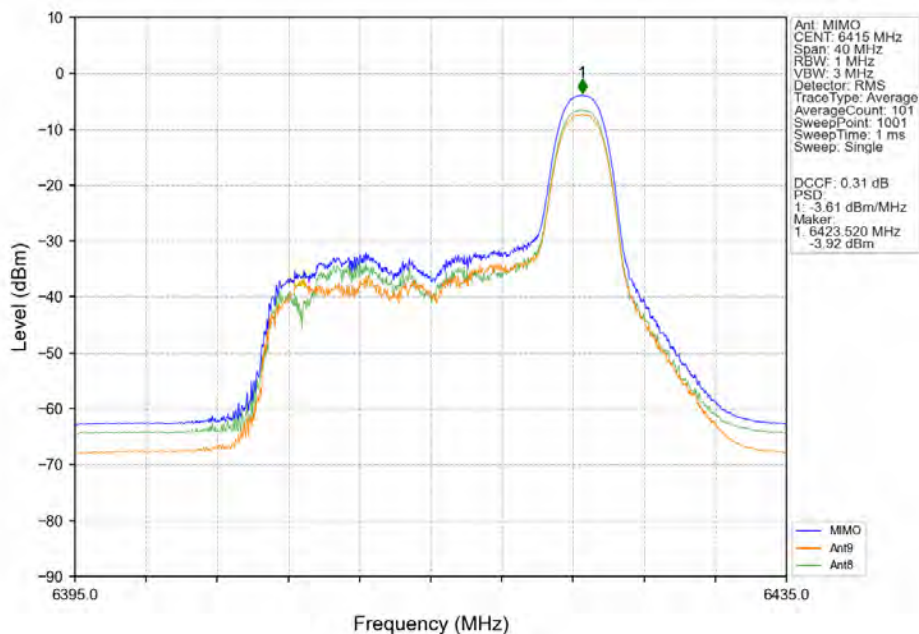
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802.11ax(HEW20) HCH 6415MHz RU26 Right Ant8 NTN



802.11ax(HEW20) HCH 6415MHz RU26 Right MIMO NTN



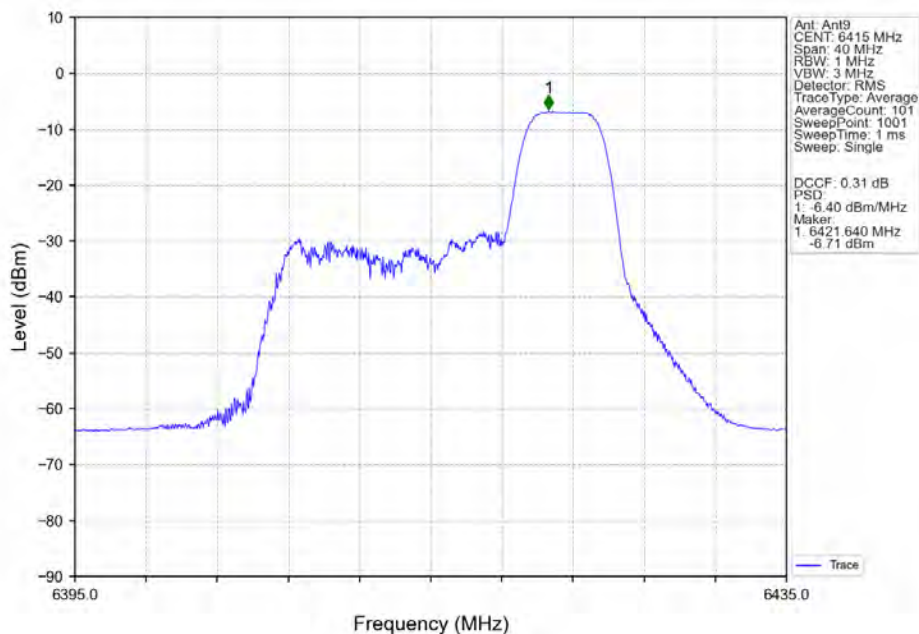
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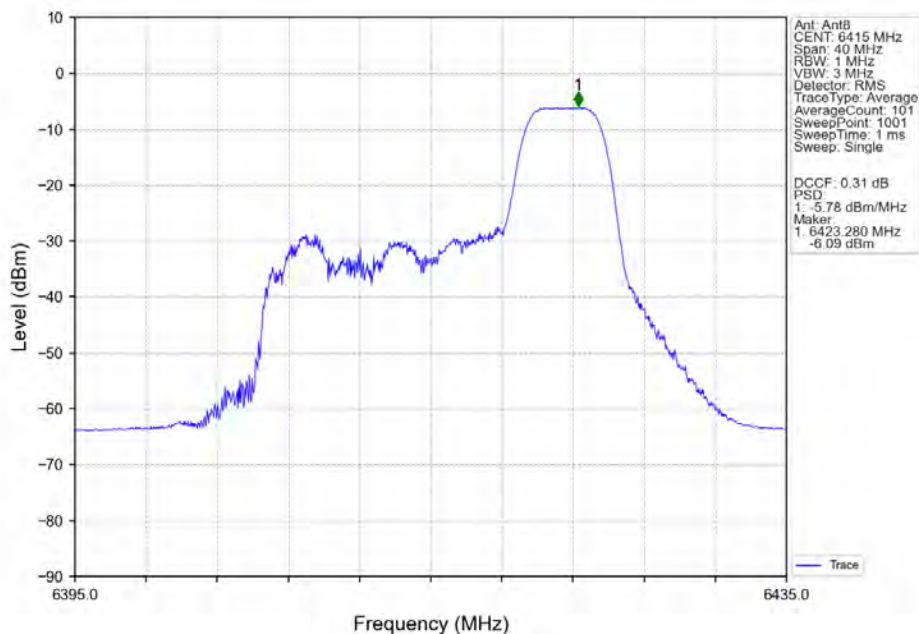
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802.11ax(HEW20)_HCH_6415MHz_RU52_Right_Ant9_NTNV



802.11ax(HEW20)_HCH_6415MHz_RU52_Right_Ant8_NTNV



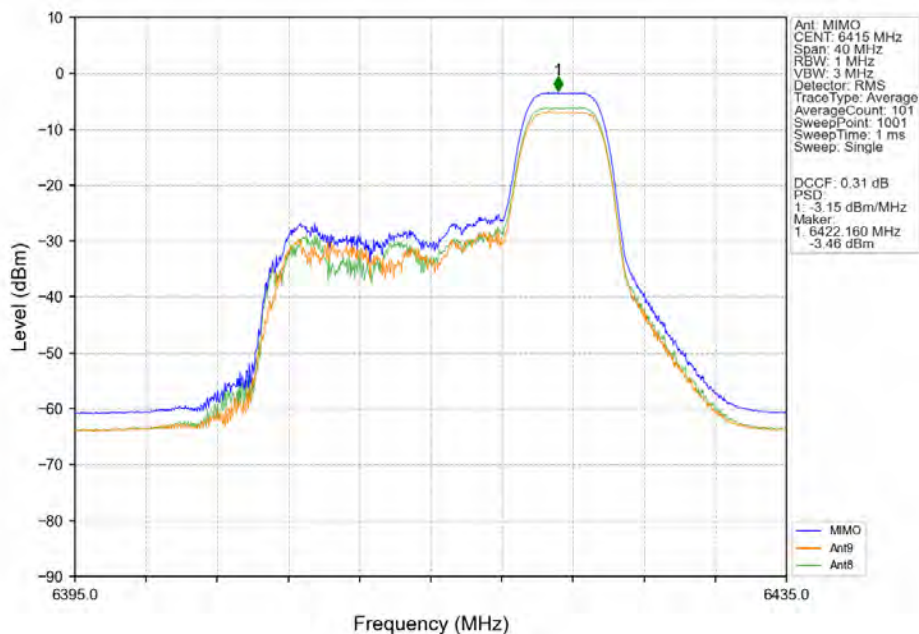
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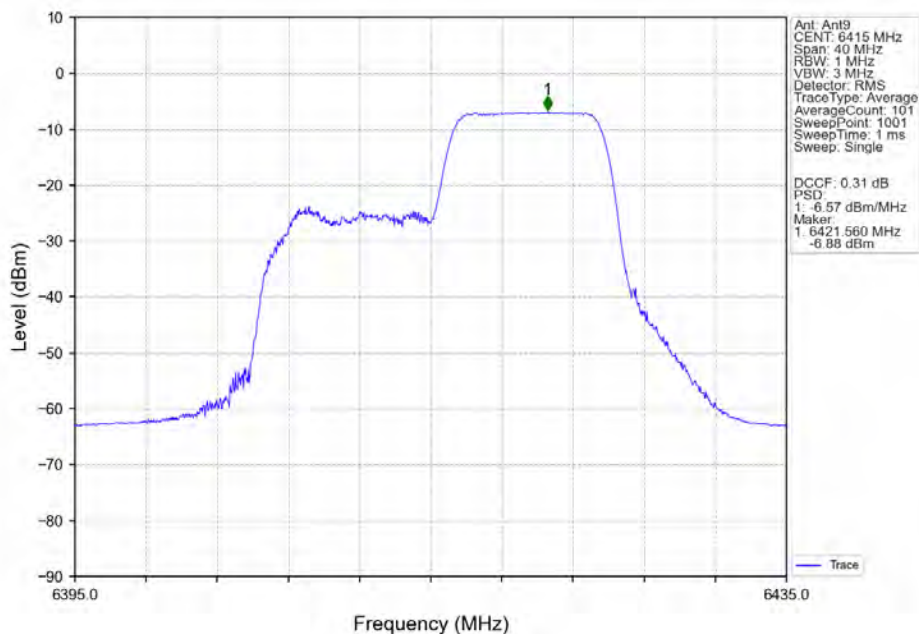
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802.11ax(HEW20) HCH 6415MHz RU52 Right MIMO NTN



802.11ax(HEW20) HCH 6415MHz RU106 Right Ant9 NTN



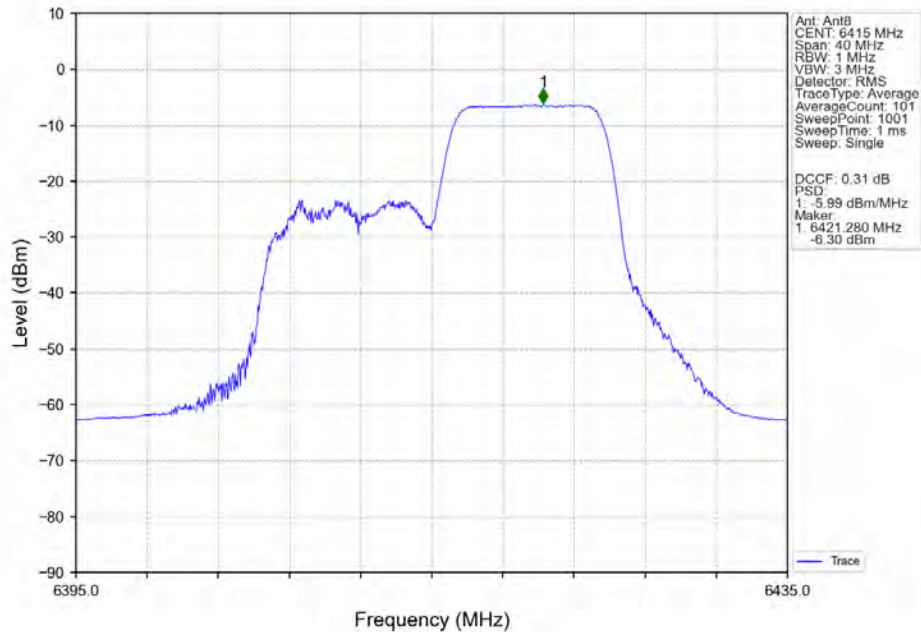
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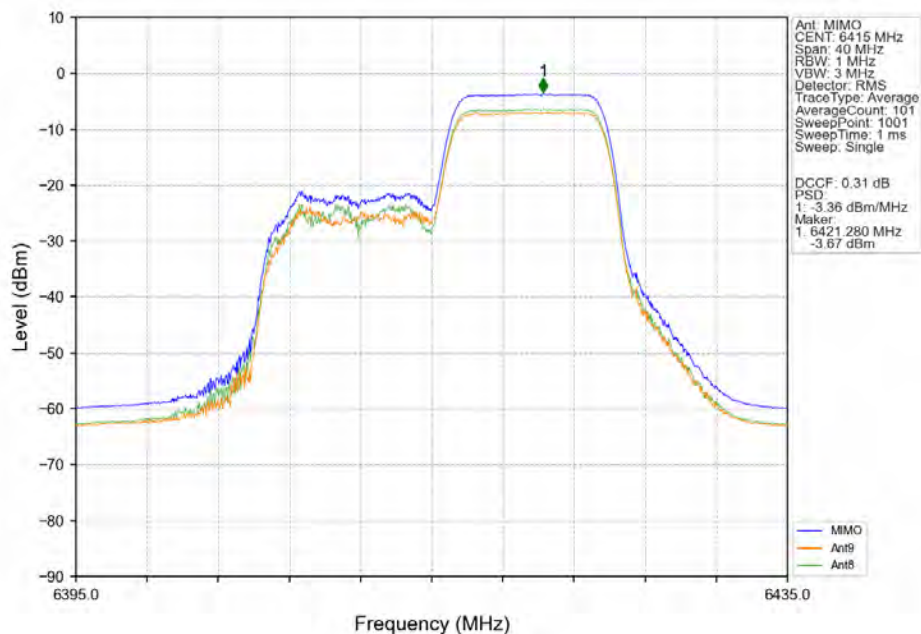
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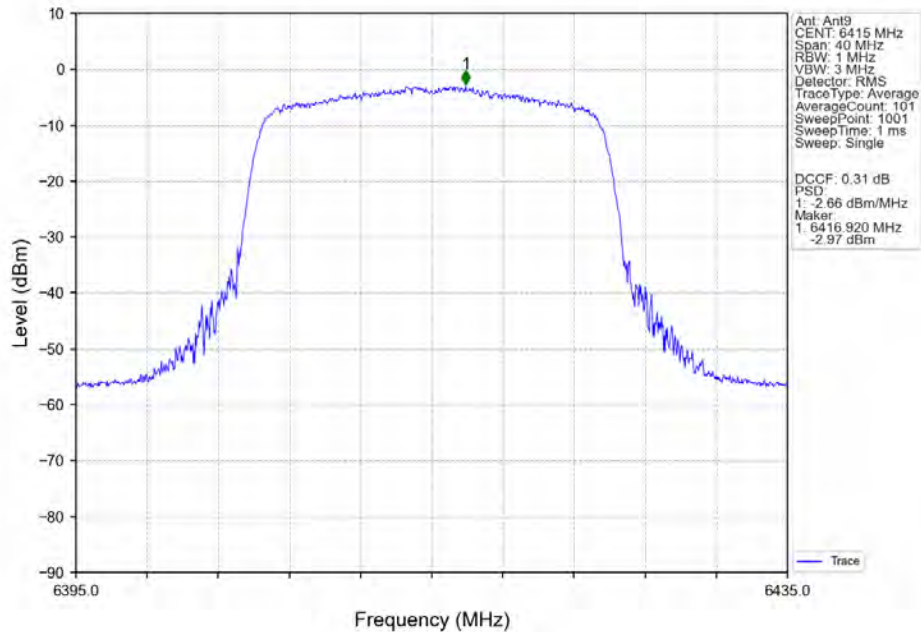
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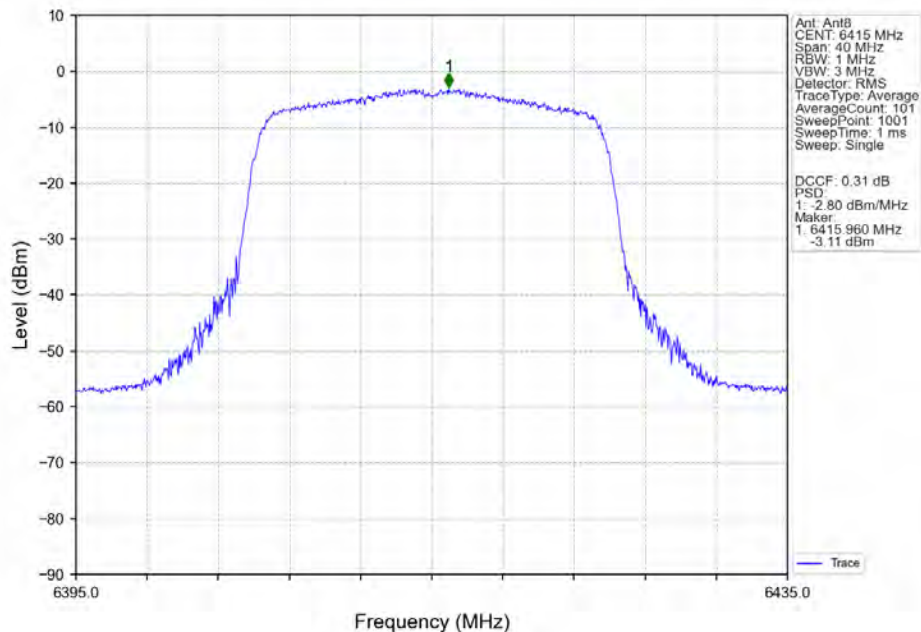
802.11ax(HEW20) HCH 6415MHz RU106 Right MIMO NTN



802.11ax(HEW20) HCH 6415MHz RU242 Left Ant9 NTN



802.11ax(HEW20) HCH 6415MHz RU242 Left Ant8 NTN



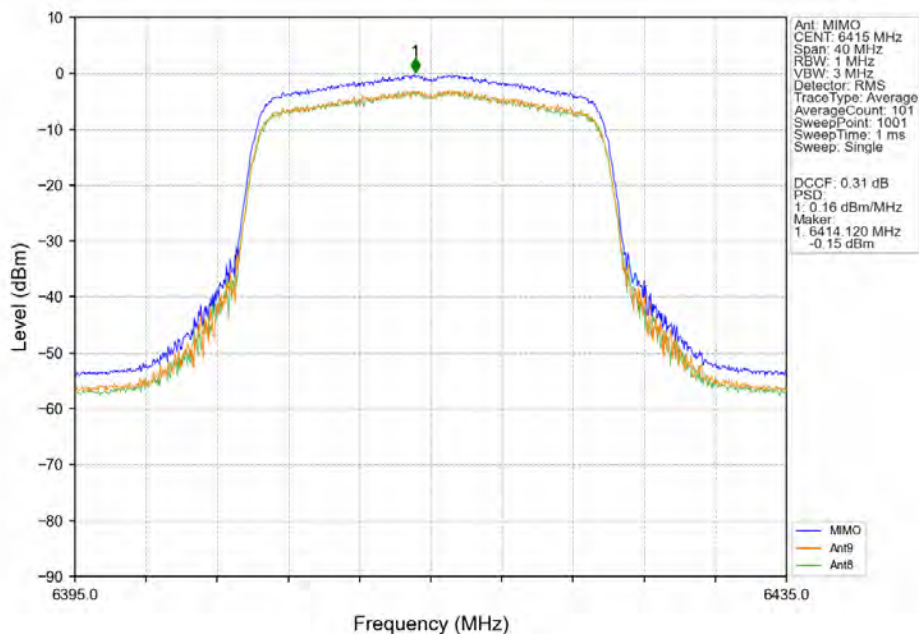
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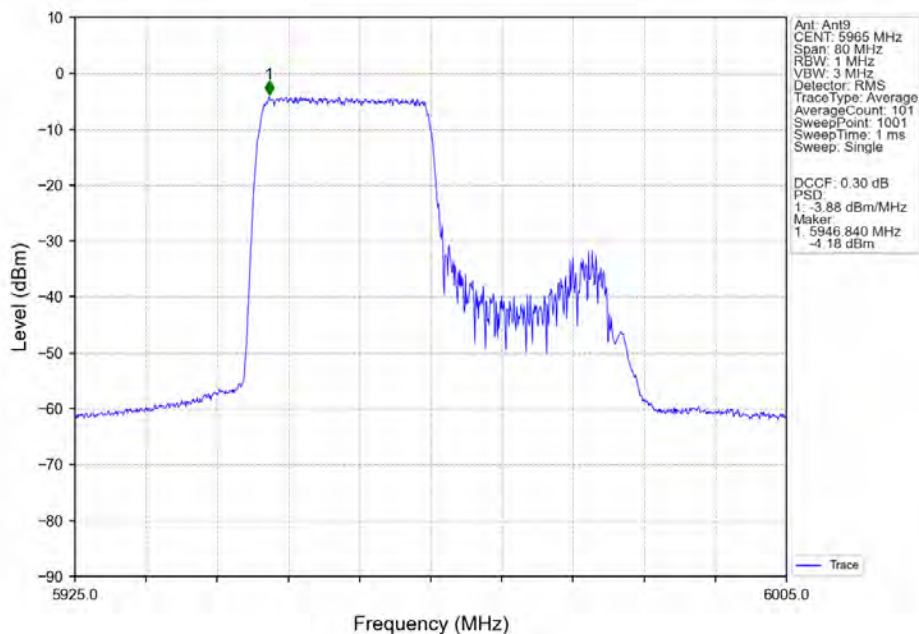
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802.11ax(HEW20) HCH 6415MHz RU242 Left MIMO NTN



802.11ax(HEW40) LCH 5965MHz RU242 Left Ant9 NTN



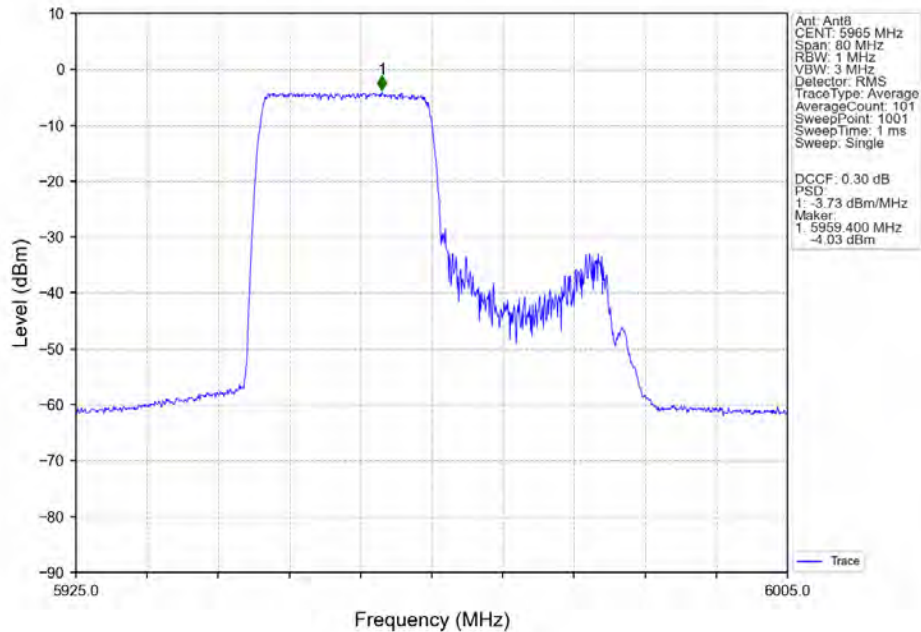
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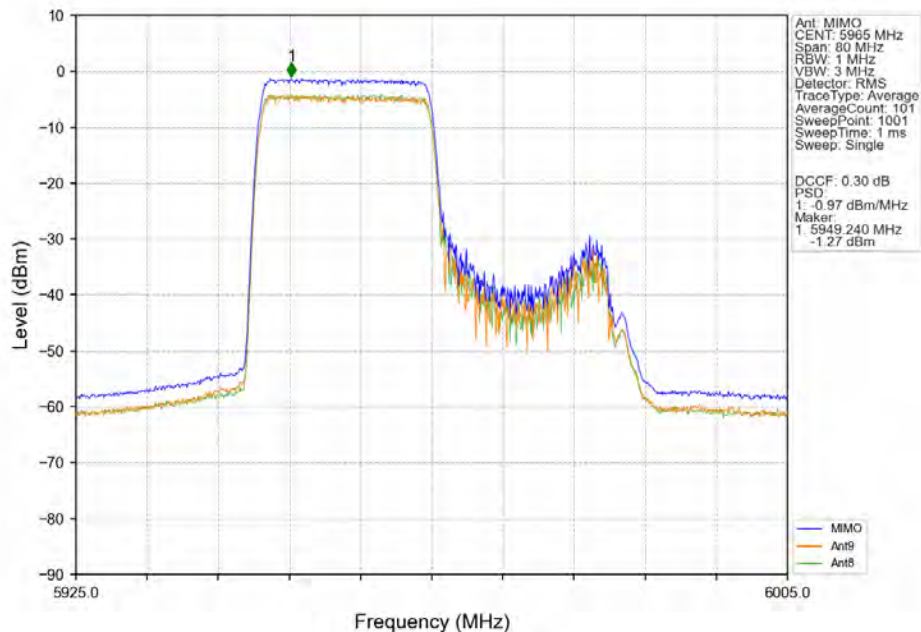
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802.11ax(HEW40) LCH_5965MHz_RU242_Left_Ant8_NTNV



802.11ax(HEW40) LCH_5965MHz_RU242_Left_MIMO_NTNV



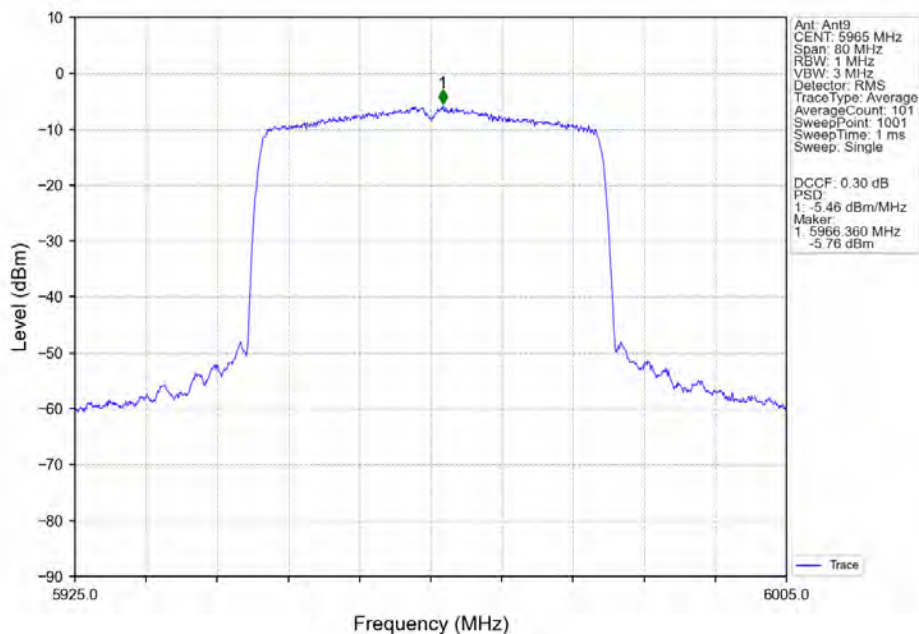
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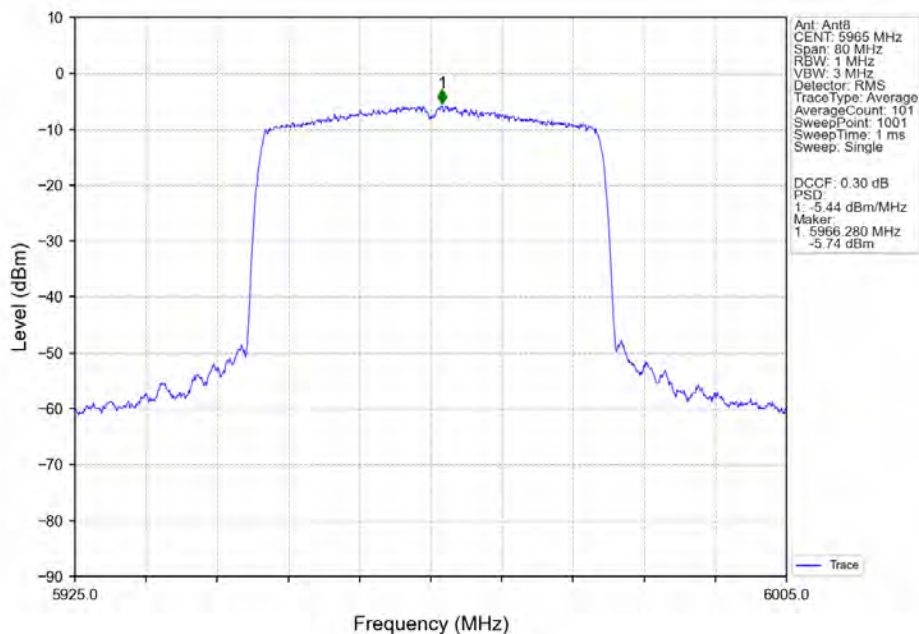
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802.11ax(HEW40) LCH_5965MHz_RU484_Left_Ant9_NTNV



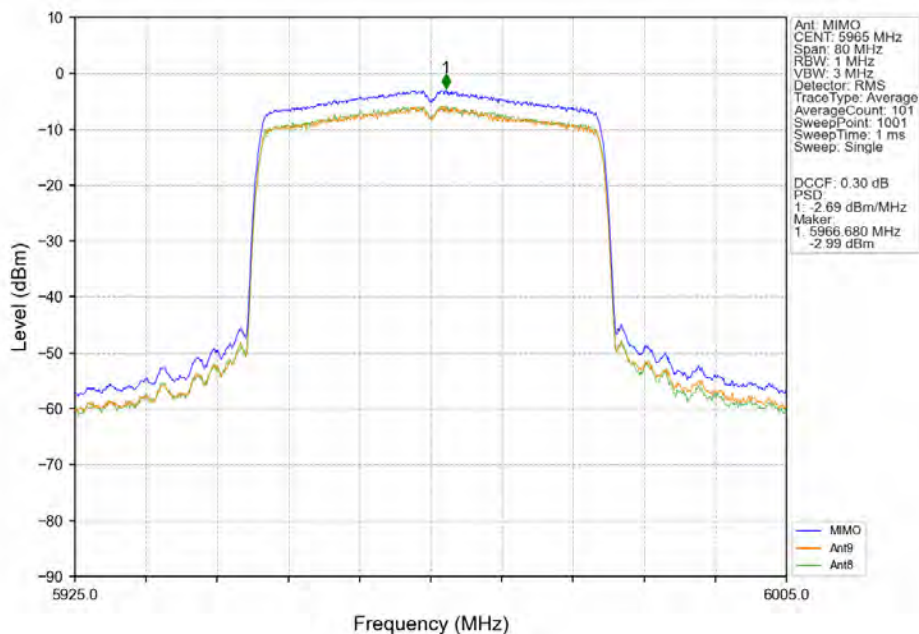
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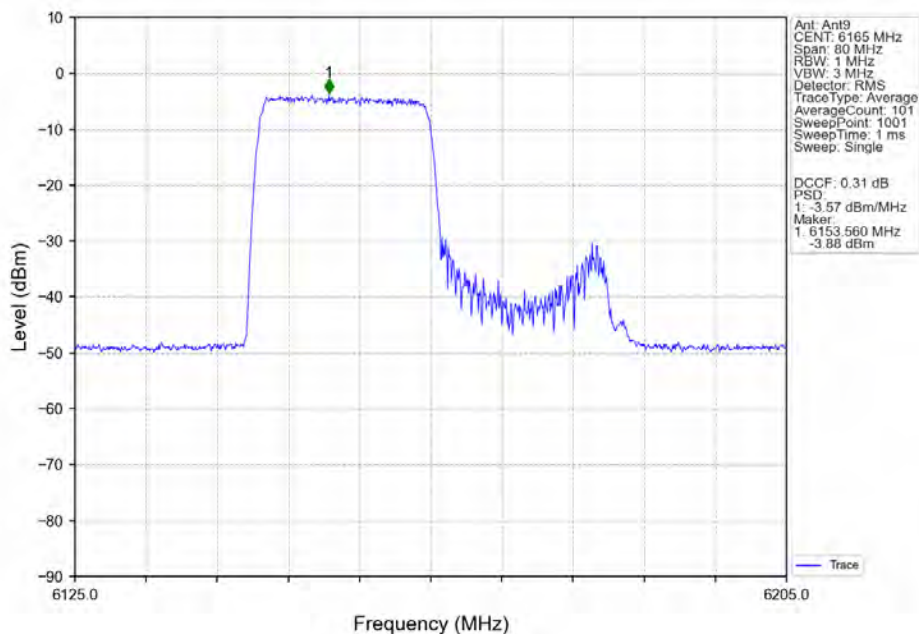
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802.11ax(HEW40)_LCH_5965MHz_RU484_Left_MIMO_NTNV



802.11ax(HEW40)_MCH_6165MHz_RU242_Left_Ant9_NTNV



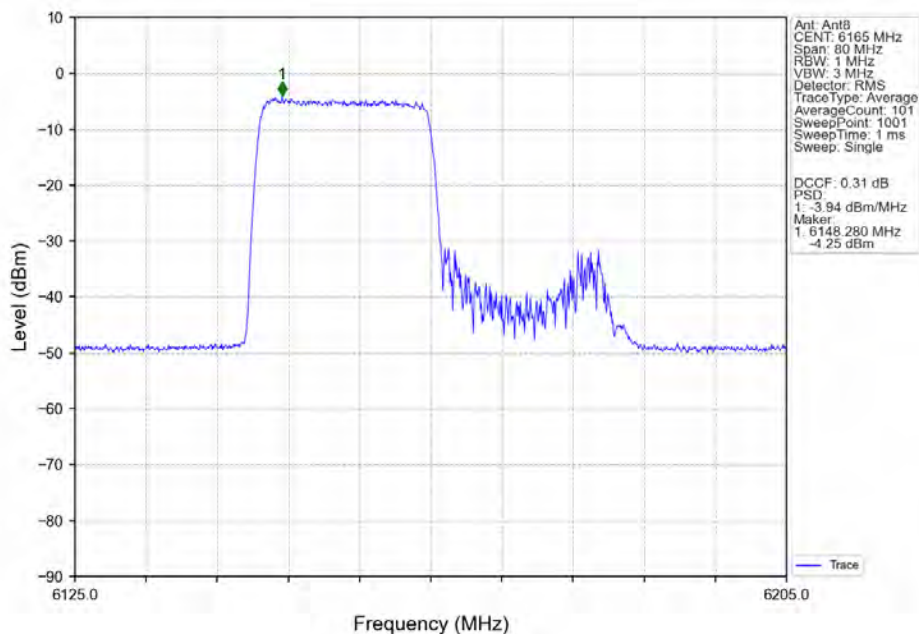
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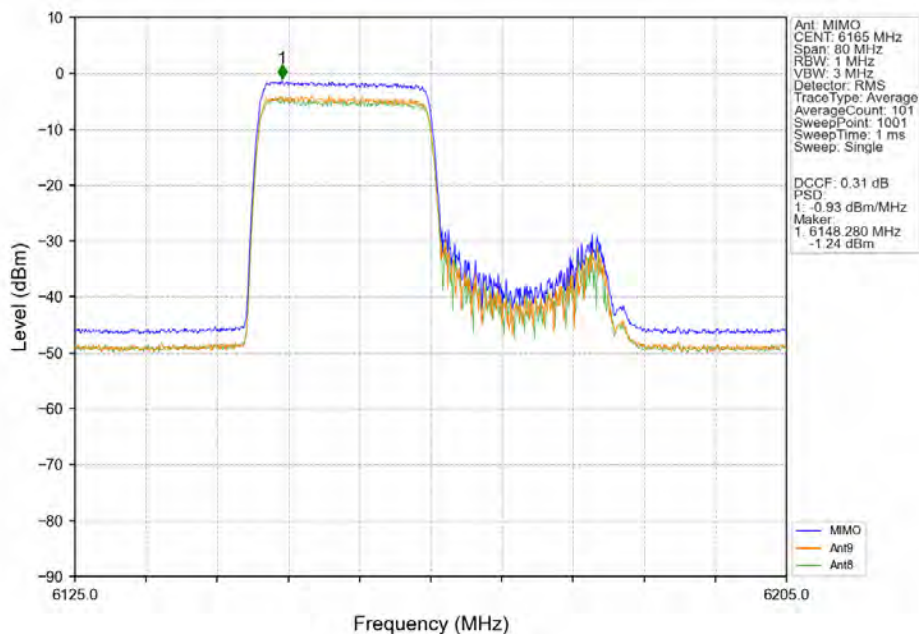
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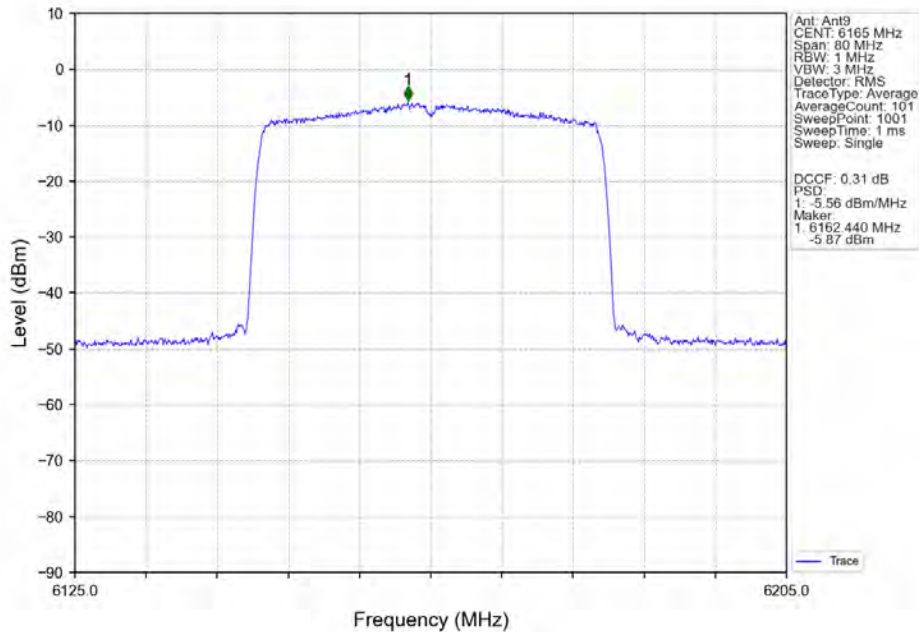
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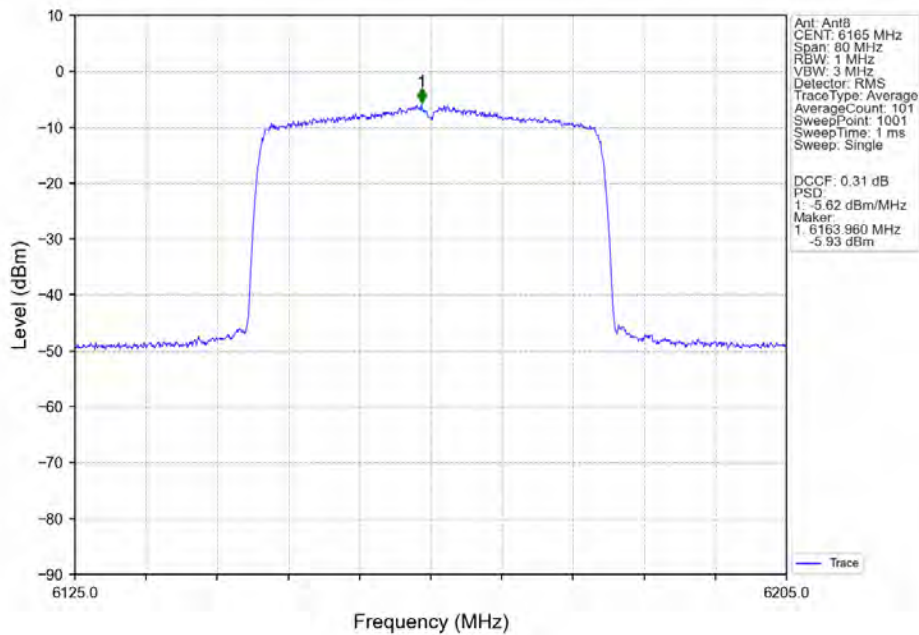
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802.11ax(HEW40)_MCH_6165MHz_RU484_Left_Ant9_NTNV



802.11ax(HEW40)_MCH_6165MHz_RU484_Left_Ant8_NTNV



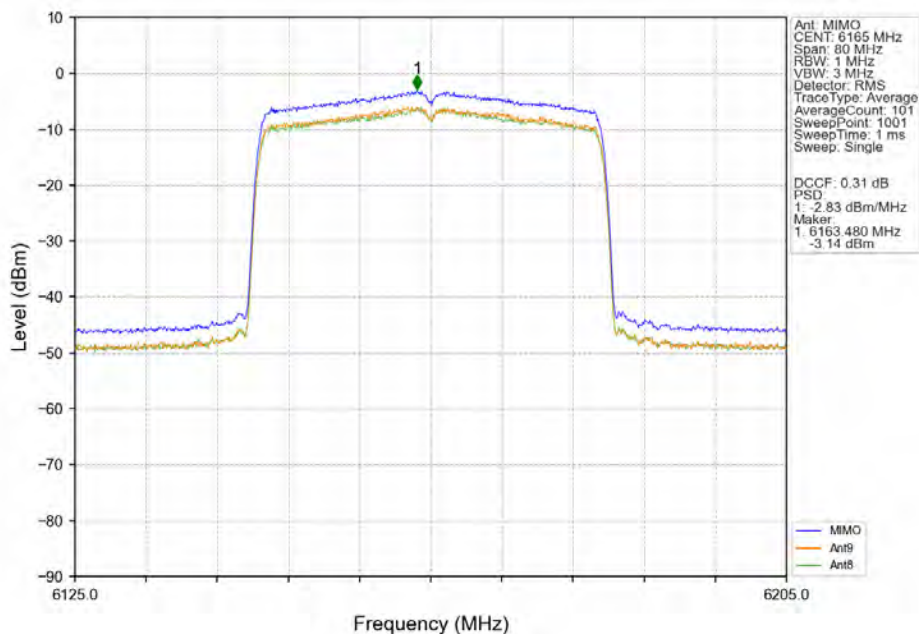
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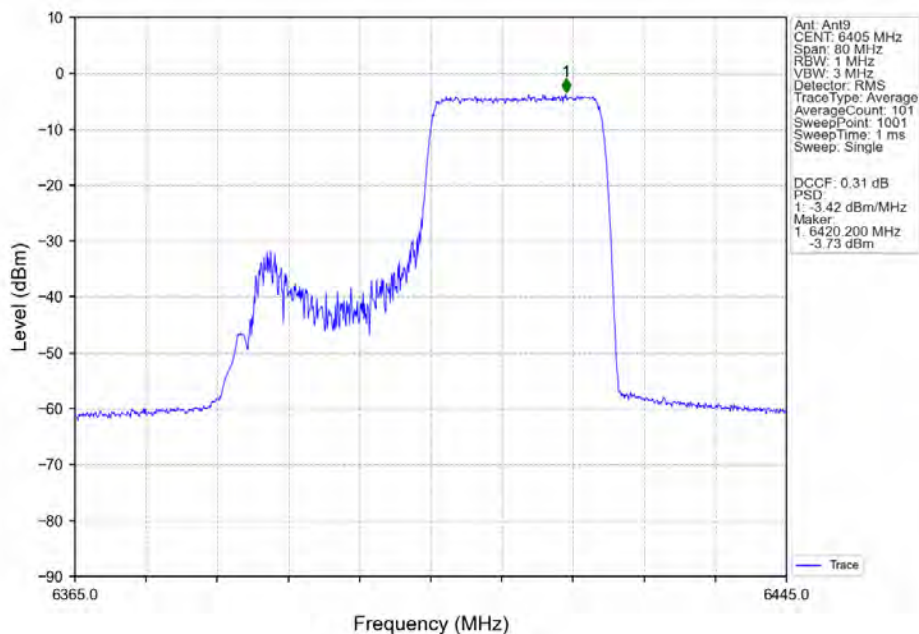
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802.11ax(HEW40) MCH_6165MHz RU484 Left MIMO NTN



802.11ax(HEW40) HCH_6405MHz RU242 Right Ant9 NTN



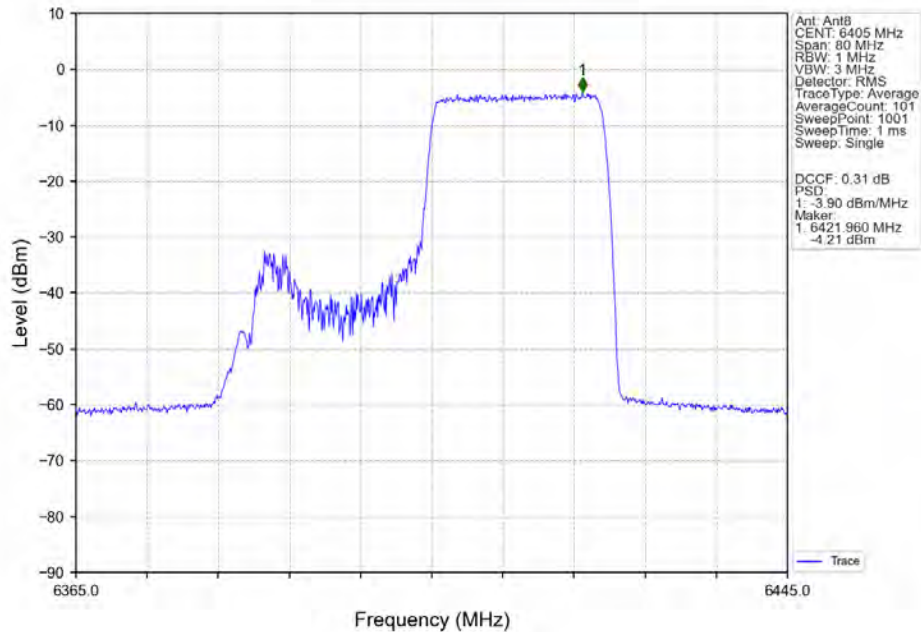
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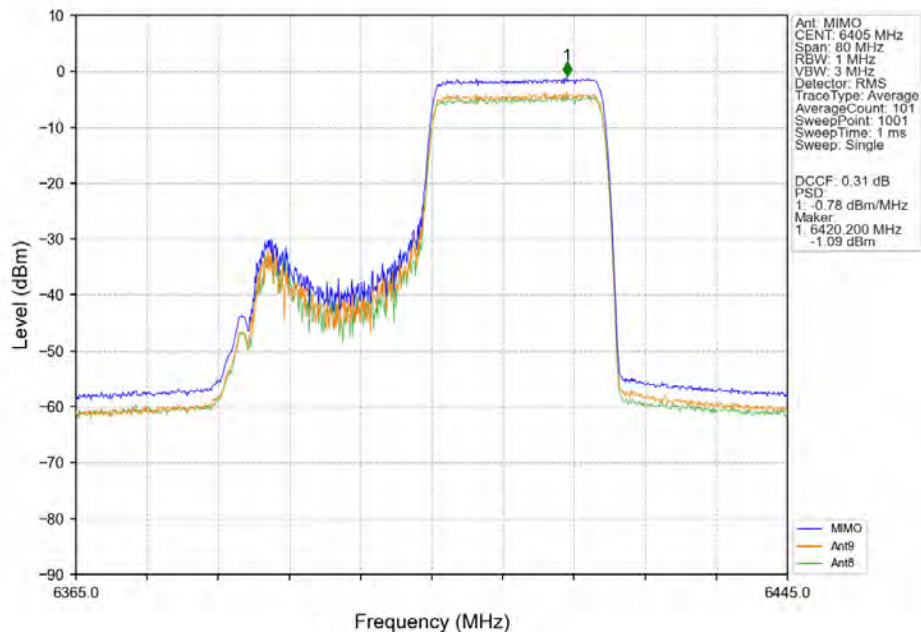
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802.11ax(HEW40) HCH 6405MHz RU242 Right Ant8 NTN



802.11ax(HEW40) HCH 6405MHz RU242 Right MIMO NTN



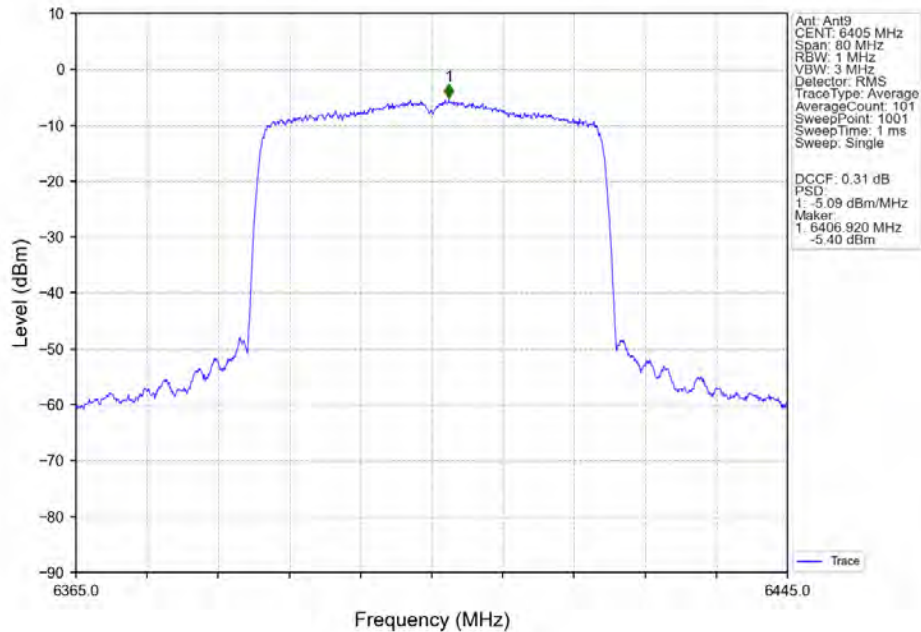
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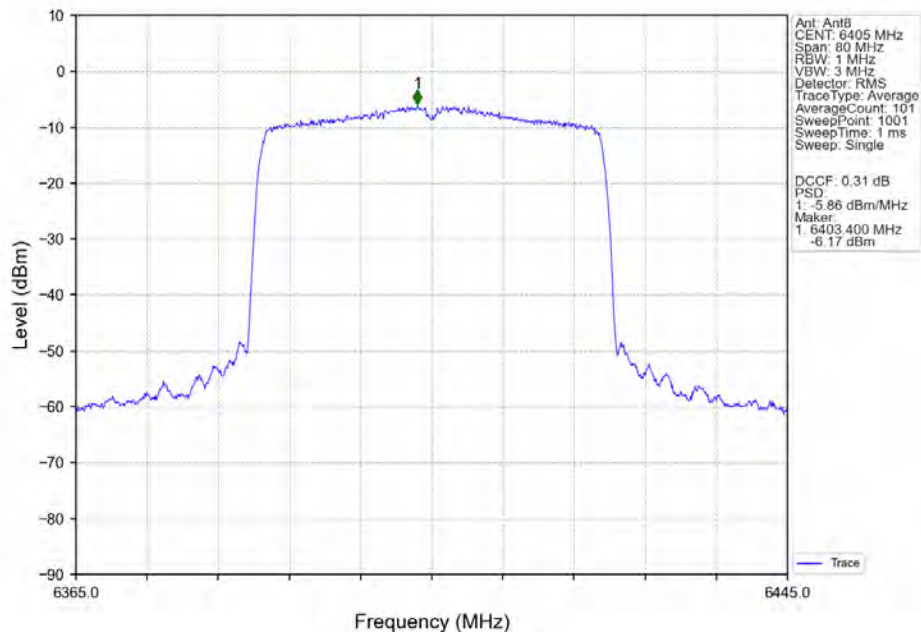
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802.11ax(HEW40) HCH 6405MHz RU484 Left Ant9 NTN



802.11ax(HEW40) HCH 6405MHz RU484 Left Ant8 NTN



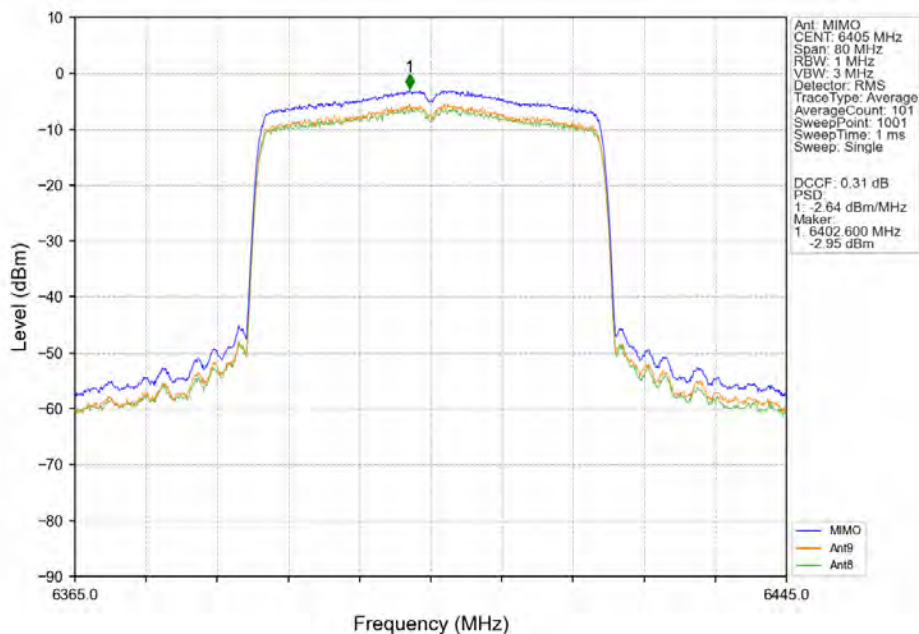
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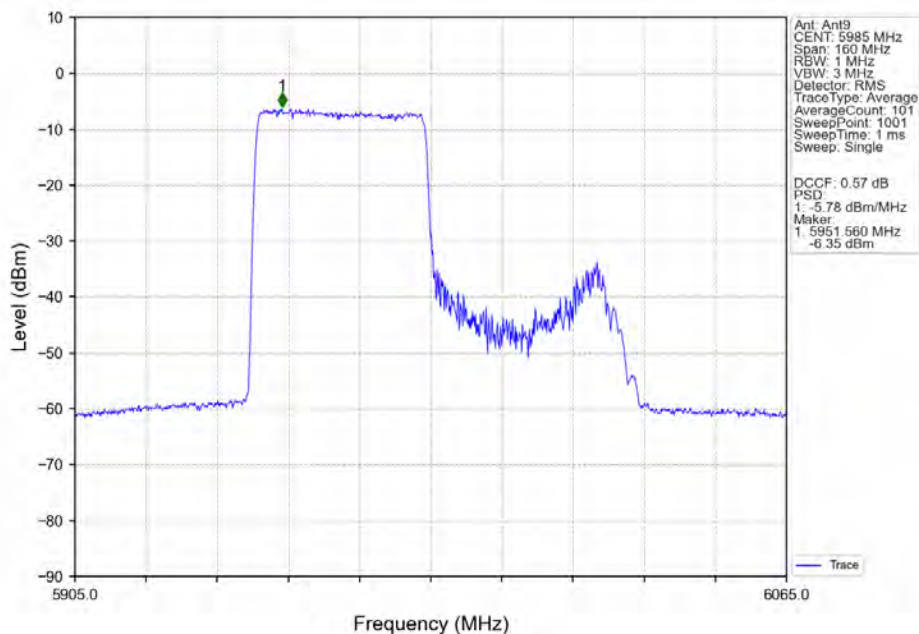
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802.11ax(HEW40) HCH 6405MHz RU484 Left MIMO NTN



802.11ax(HEW80) LCH 5985MHz RU484 Left Ant9 NTN



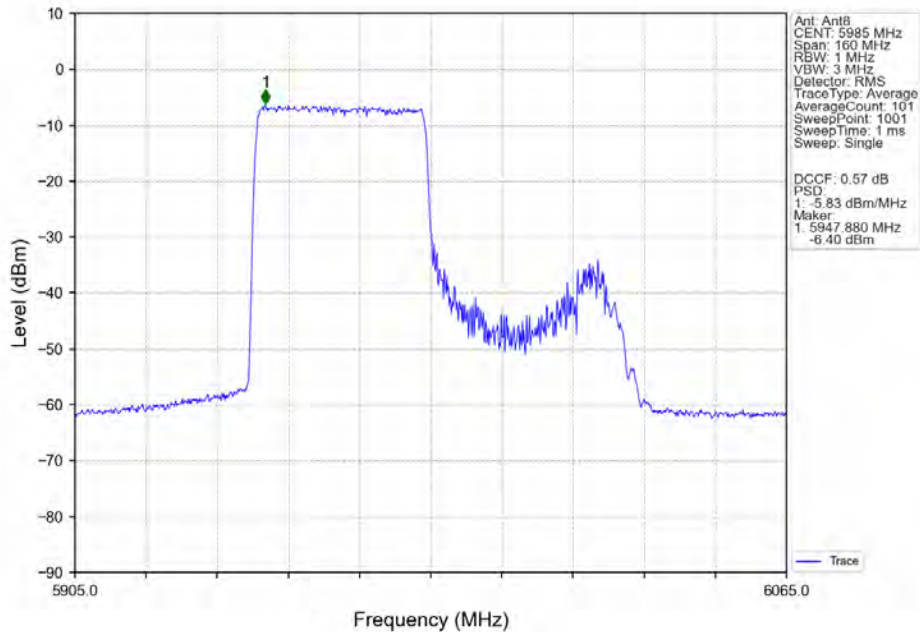
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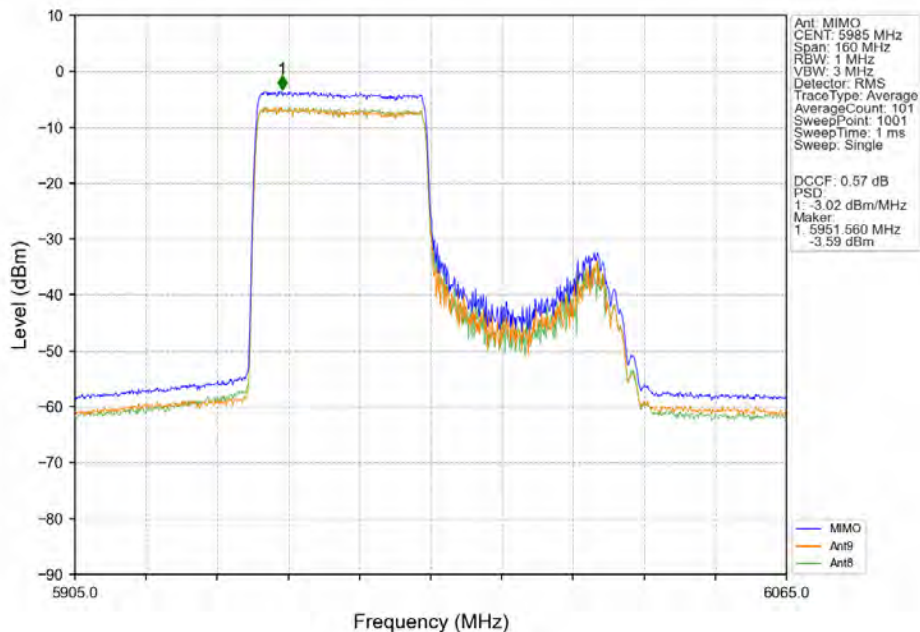
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802.11ax(HEW80) LCH_5985MHz_RU484_Left_Ant8_NTNV



802.11ax(HEW80) LCH_5985MHz_RU484_Left_MIMO_NTNV



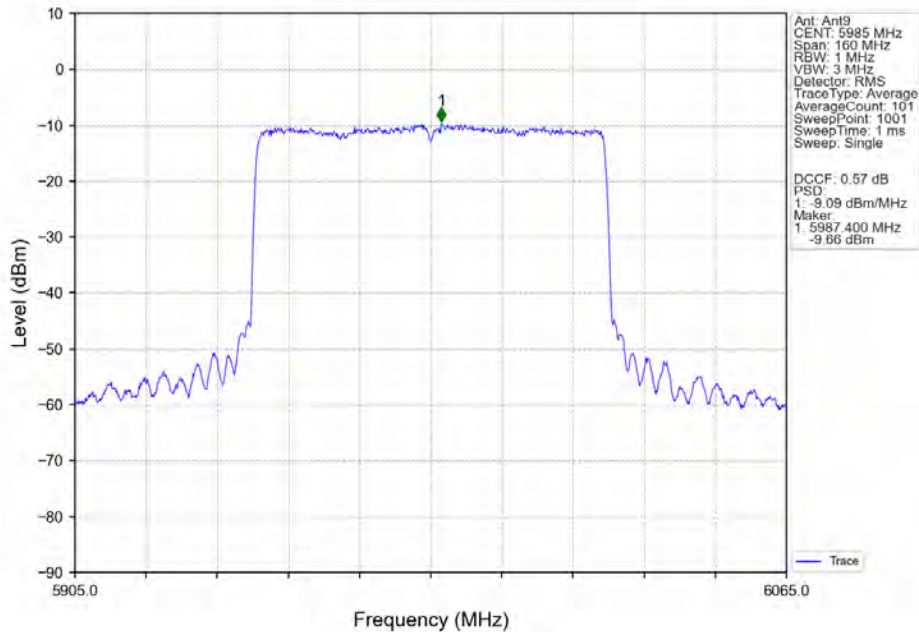
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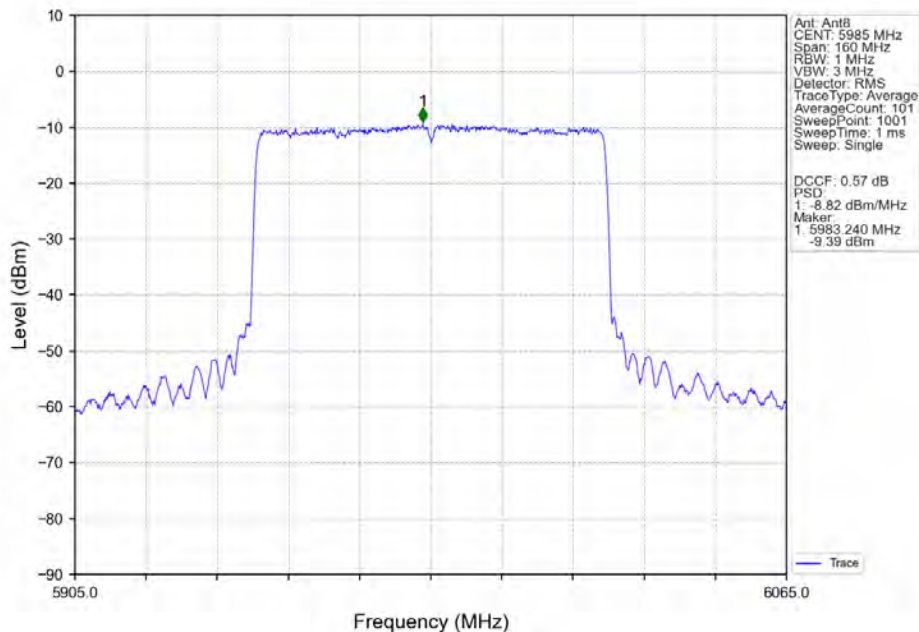
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802.11ax(HEW80) LCH_5985MHz_RU996_Left_Ant9_NTNV



802.11ax(HEW80) LCH_5985MHz_RU996_Left_Ant8_NTNV



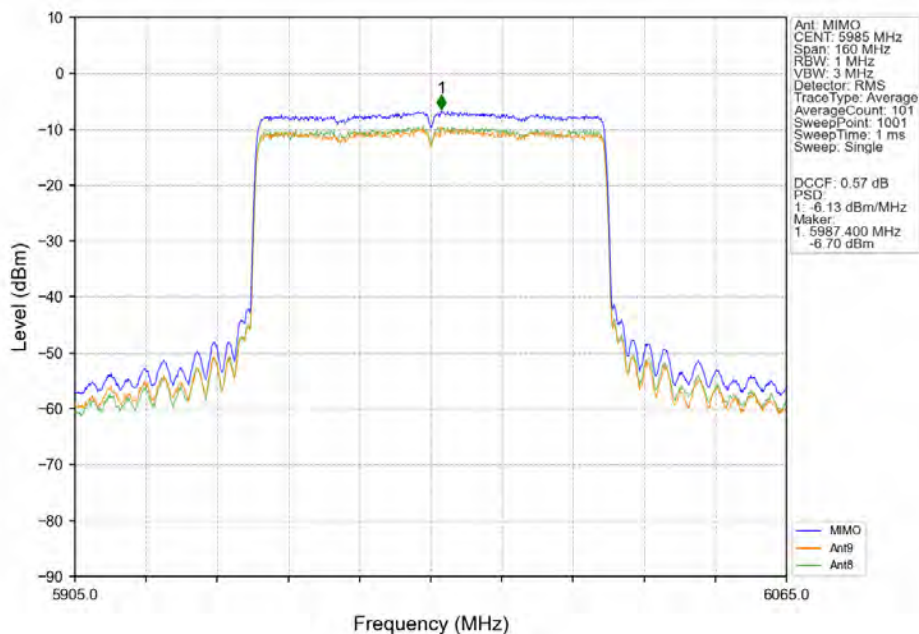
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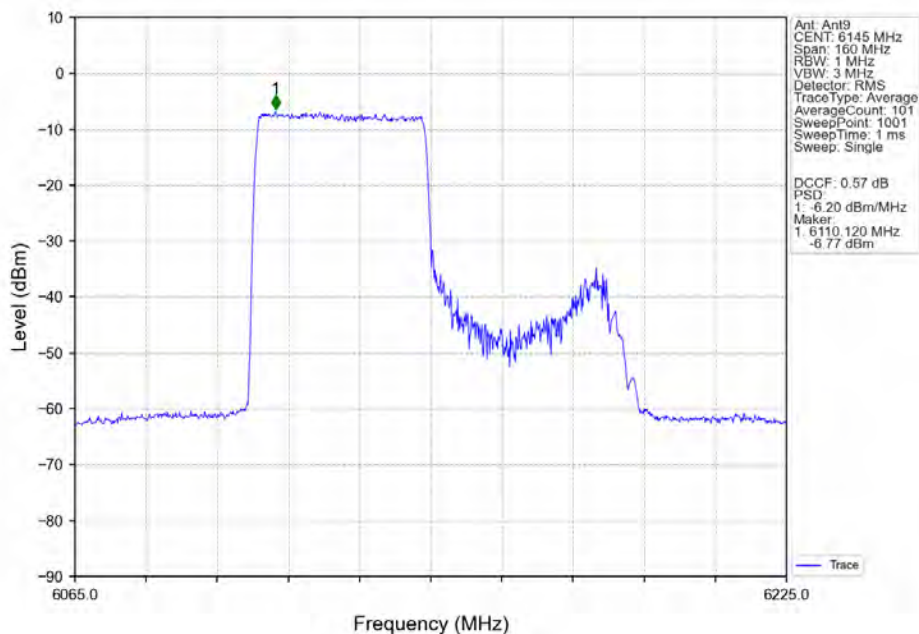
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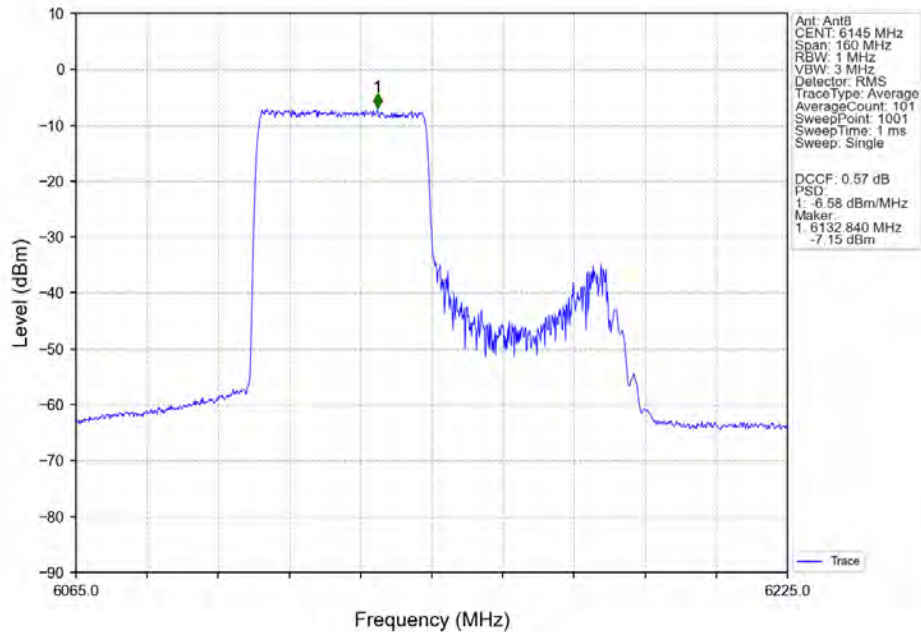
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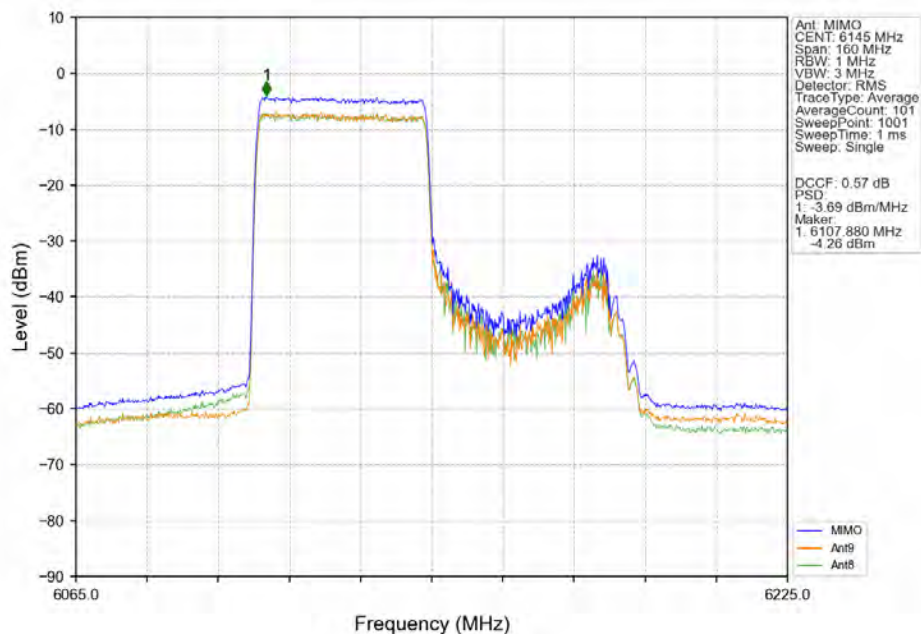
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802.11ax(HEW80)_MCH_6145MHz_RU484_Left_MIMO_NTNV



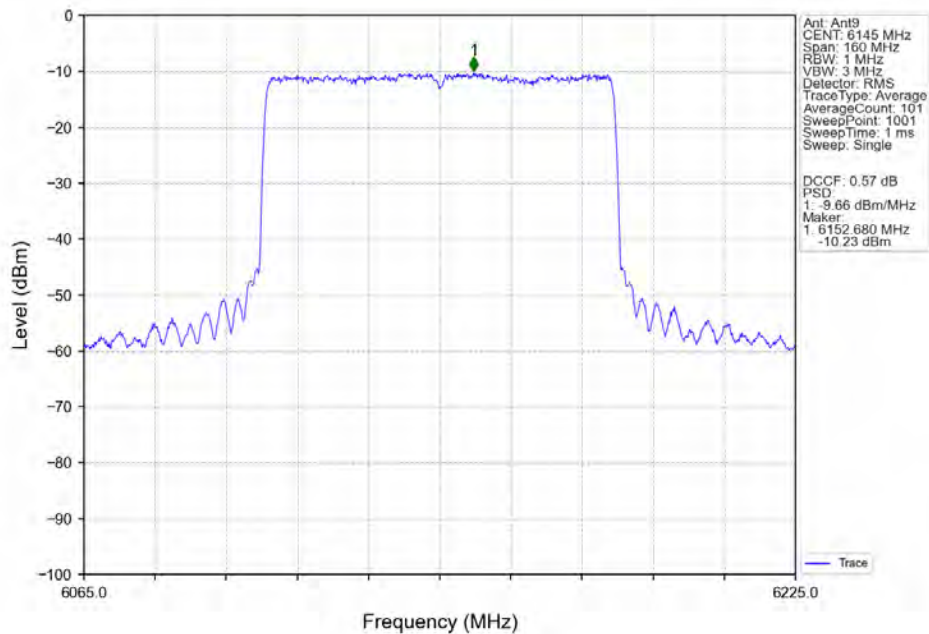
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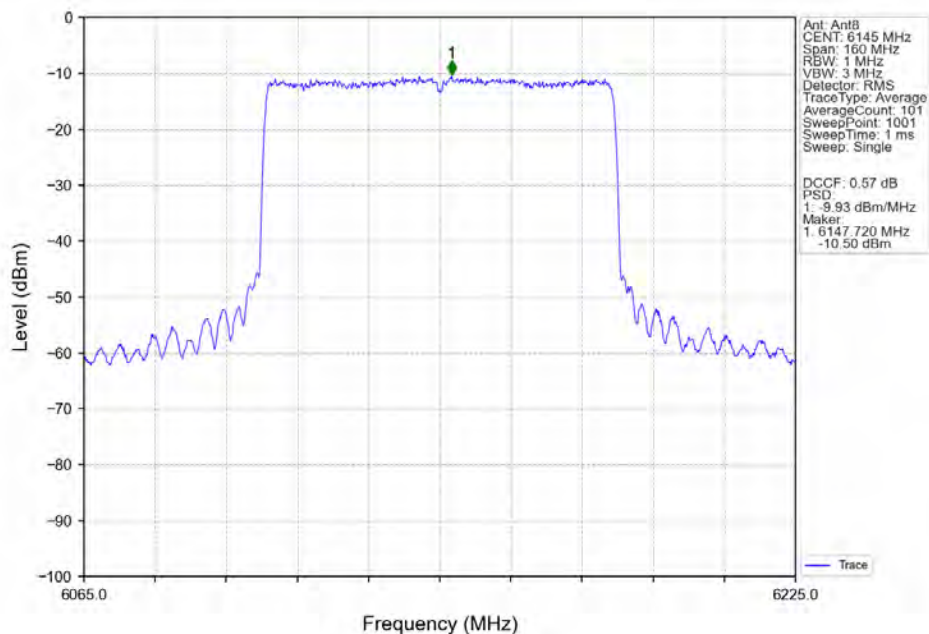
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802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant9_NTNV



802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant8_NTNV



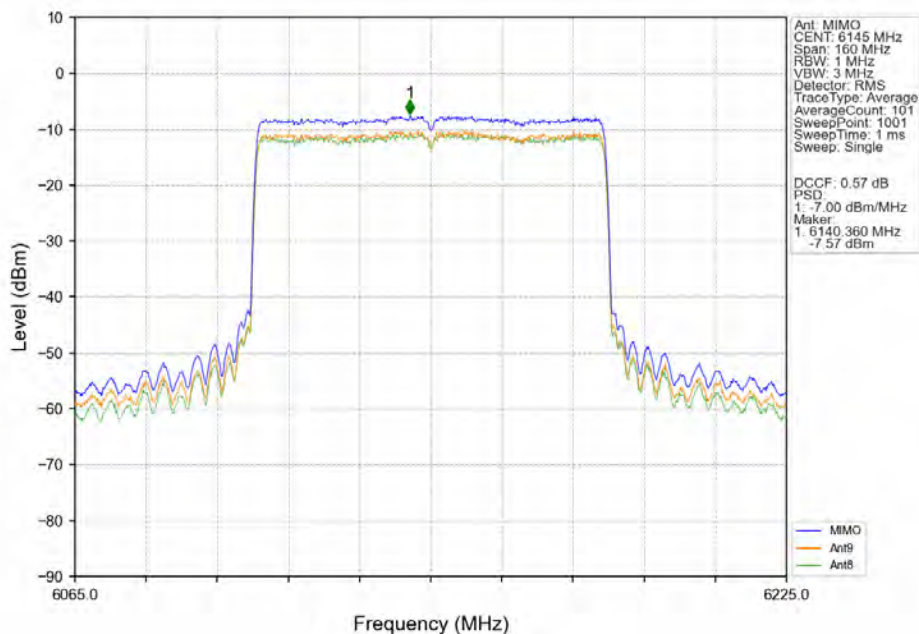
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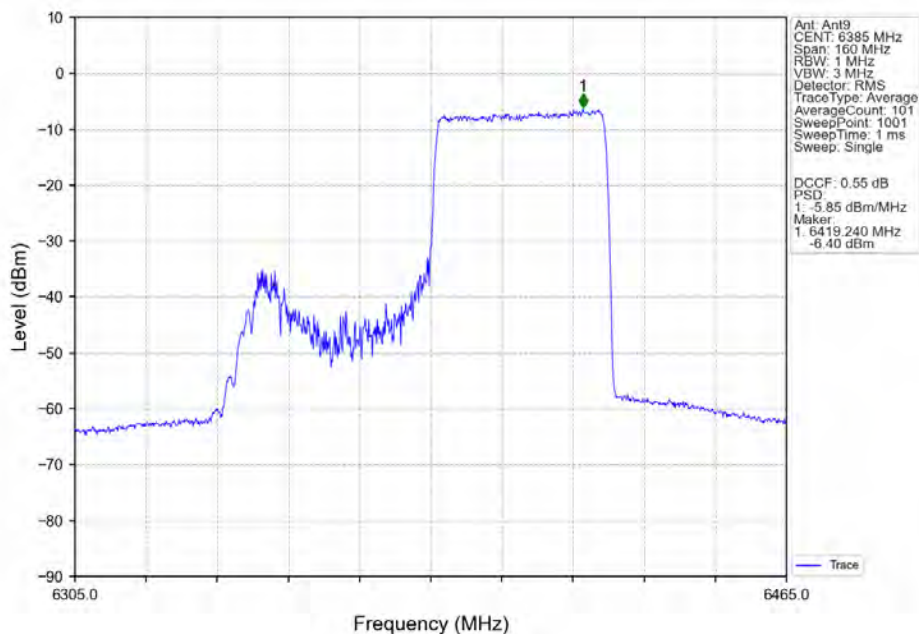
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802.11ax(HEW80) MCH_6145MHz_RU996 Left MIMO NTN



802.11ax(HEW80) HCH_6385MHz_RU484 Right Ant9 NTN



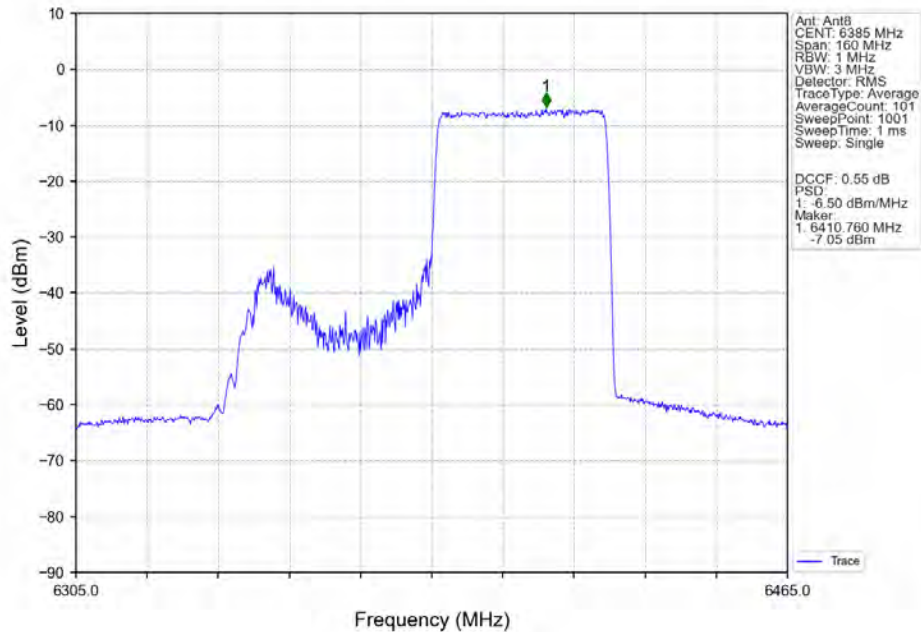
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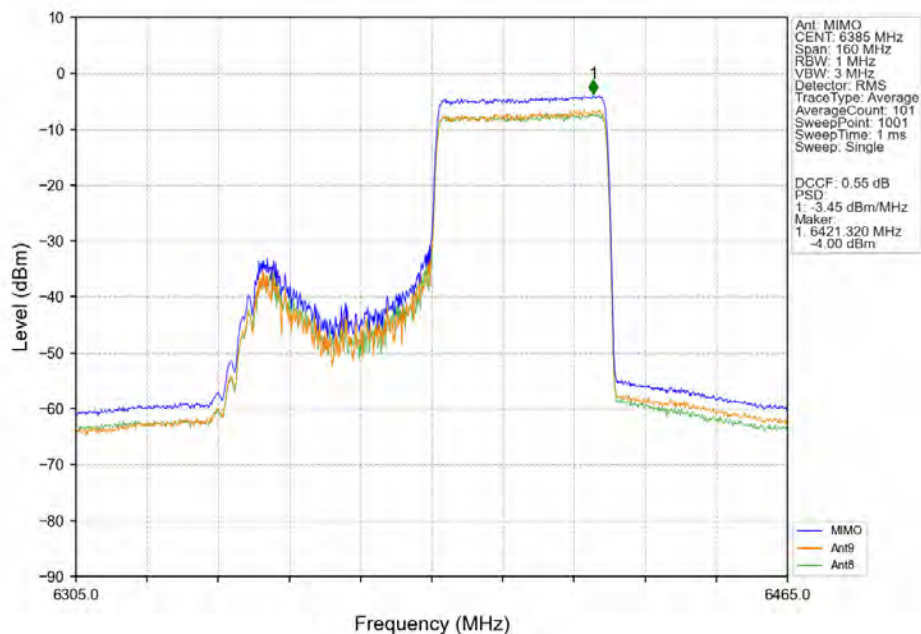
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802.11ax(HEW80) HCH 6385MHz RU484 Right Ant8 NTN



802.11ax(HEW80) HCH 6385MHz RU484 Right MIMO NTN



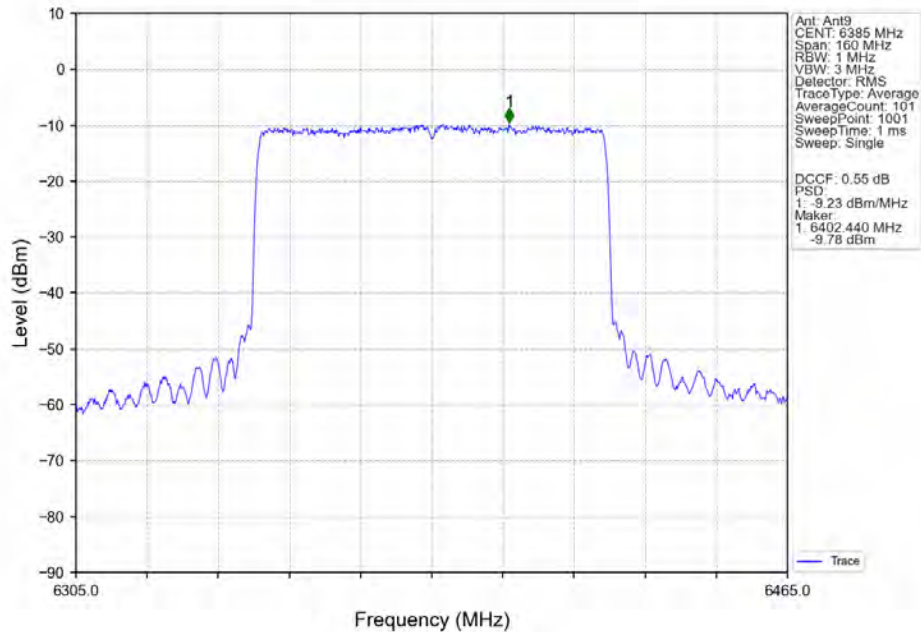
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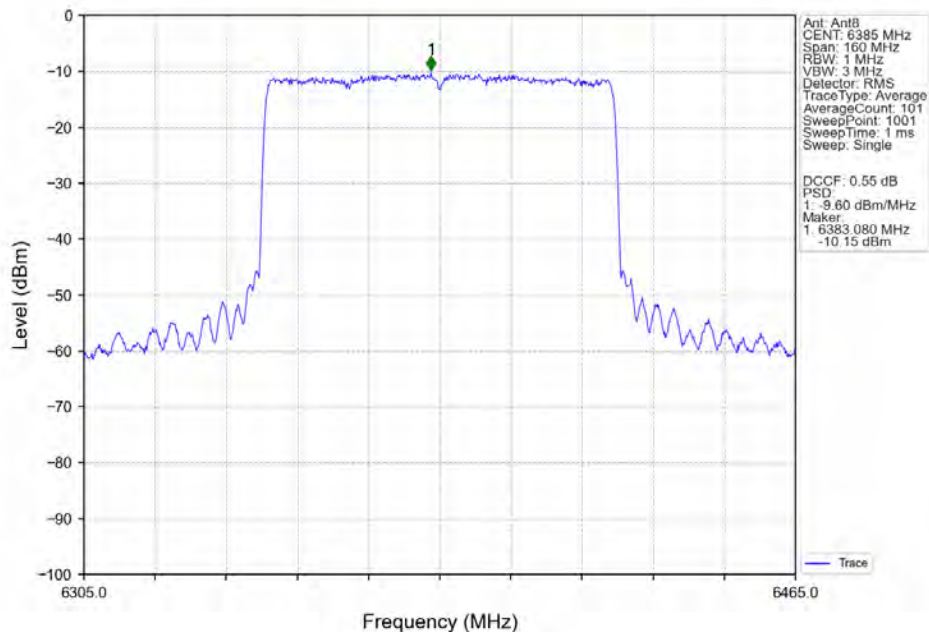
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802.11ax(HEW80) HCH 6385MHz RU996 Left Ant9 NTN



802.11ax(HEW80) HCH 6385MHz RU996 Left Ant8 NTN



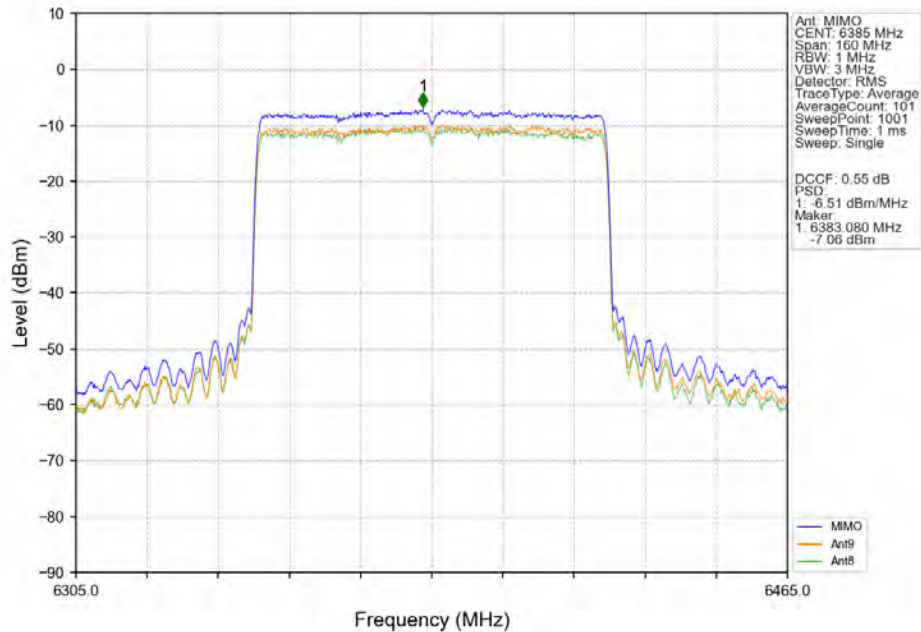
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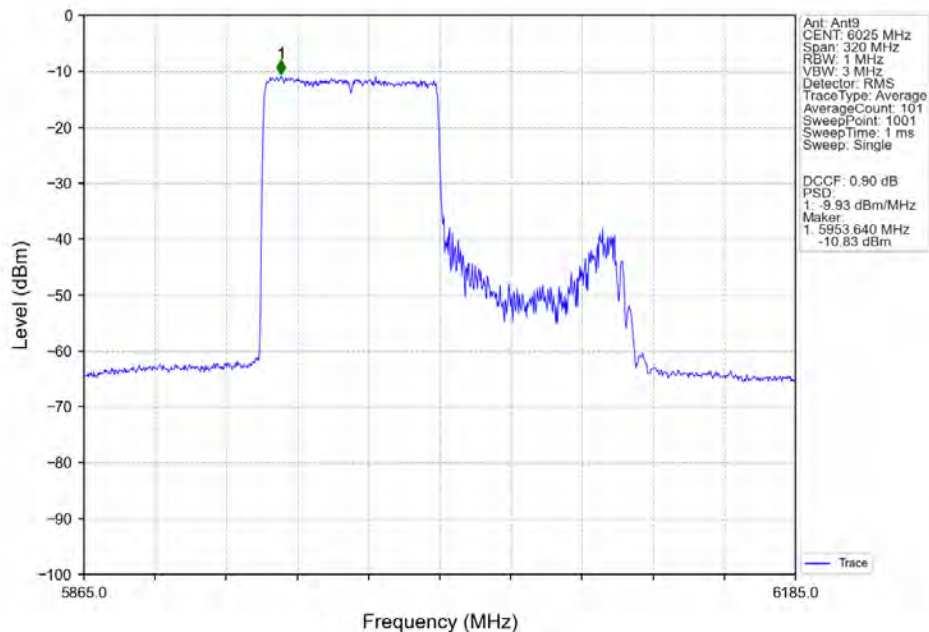
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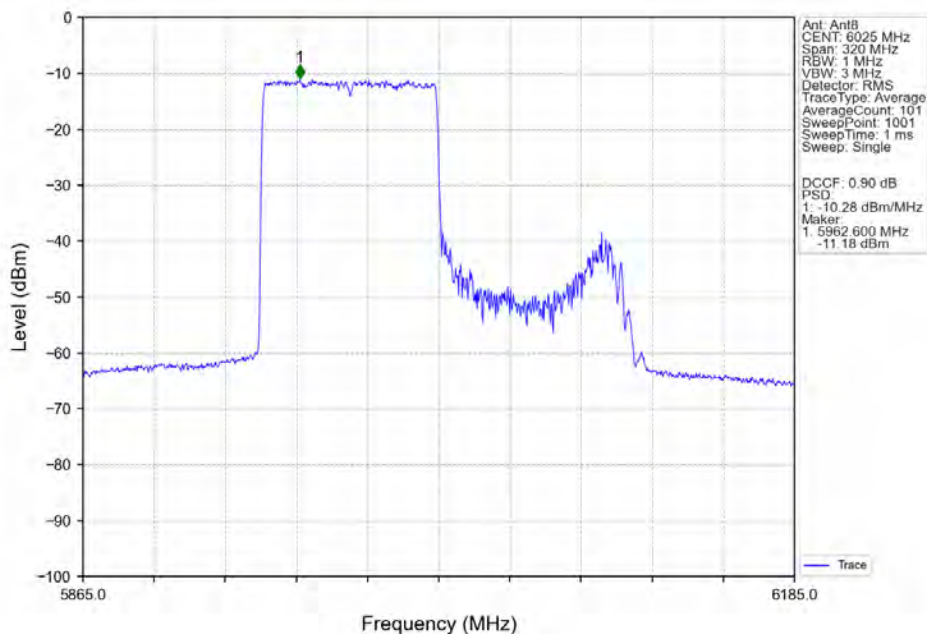
802.11ax(HEW80) HCH 6385MHz RU996 Left MIMO NTN



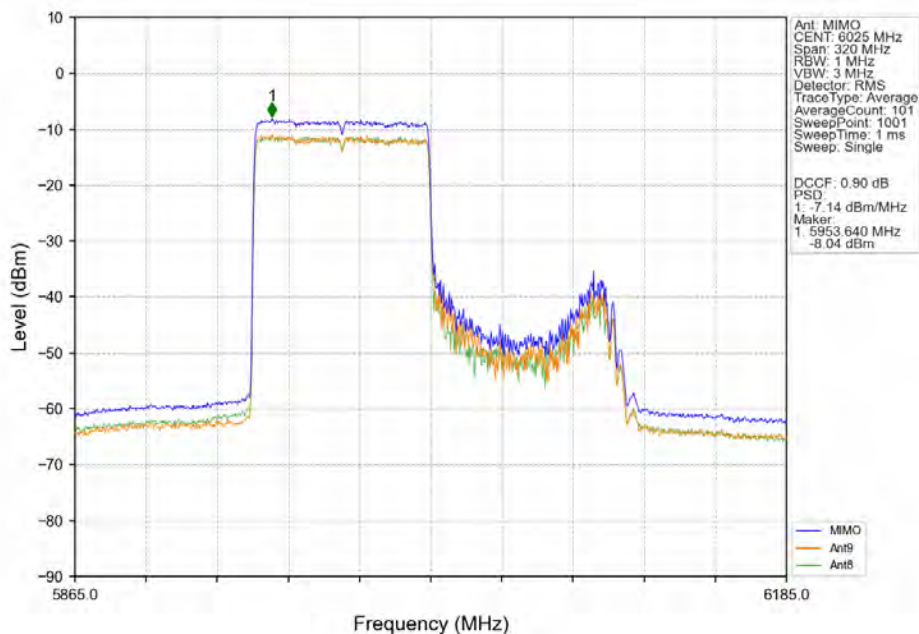
802.11ax(HEW160) LCH 6025MHz RU996 Left Ant9 NTN



802.11ax(HEW160) LCH_6025MHz RU996 Left Ant8 NTN



802.11ax(HEW160) LCH_6025MHz RU996 Left MIMO NTN



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