

TEST REPORT

Application No.: KSCR2602000287MO
FCC ID: 2BUSM-CGM-WIFI6
Applicant: Shanghai Shineng Electrical Equipment Co.,Ltd.
Address of Applicant: No.22Hangming Rd.Hangtou Town Pudong New District,Shanghai China
Manufacturer: Shanghai Shineng Electrical Equipment Co.,Ltd.
Address of Manufacturer: No.22Hangming Rd.Hangtou Town Pudong New District,Shanghai China
Factory: Shanghai Shineng Electrical Equipment Co.,Ltd.
Address of Factory: No.22Hangming Rd.Hangtou Town Pudong New District,Shanghai China
Equipment Under Test (EUT):
EUT Name: ChargerGatewayModule
Model No.: CGM-WiFi6
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2026-02-03
Date of Test: 2026-03-06 to 2026-03-18
Date of Issue: 2026-03-18

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

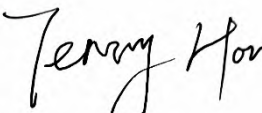
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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Revision Record			
Version	Description	Date	Remark
00	Original	2026-03-18	/

Authorized for issue by:			
Tested By			
		Eric_Liu/Project Engineer	
Approved By			
		Terry Hou /Reviewer	

2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (Below 1GHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2020) Section 6.6 & 12.7	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5 & 12.7.2	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2020) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2020) Section 12.5.3	Pass
Minimum 6 dB Bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2020) Section 12.5.1	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted Output Power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Power Spectral Density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

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4 General Information

4.1 Details of E.U.T.

Test Voltage:	DC 5V
Operation Frequency/Number of channels (20MHz):	U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-3: 5775MHz (1 Channel)
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Channel Spacing:	802.11a/n/ac/ax 20: 20MHz; 802.11n/ac/ax 40: 40MHz; 802.11ac/ax 80: 80MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	2.1dBi (Provided by the manufacturer)

4.2 Power level setting using in test

5G				
Mode	11A	11n20/40	11Ac/20/40/80	11AX20/40/80
CH	Ant1	Ant1	Ant1	Ant1
L	14	14	14	14
M	14	14	14	14
H	14	14	14	14

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%
Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.6 Test Facility

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

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA).

- **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No:1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals						
1	EMI Test Receive	R&S	ESCI	KS301196	07/09/2025	07/08/2026
2	LISN	R&S	ENV216	KS301197	01/08/2026	01/07/2027
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/08/2026	01/07/2027
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	12/18/2025	12/17/2026
5	CE test Cable	Thermax	/	CZ301102	12/18/2025	12/17/2026
6	Software	Faratronic	E3	/	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	07/09/2025	07/08/2026
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	07/09/2025	07/08/2026
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	12/17/2025	12/16/2026
4	Signal Generator	R&S	SMBV100B	KSEM032	12/17/2025	12/16/2026
5	Signal Generator	R&S	SMW200A	KSEM020-1	07/09/2025	07/08/2026
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	07/08/2025	07/07/2026
7	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
8	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	07/09/2025	07/08/2026
9	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	12/17/2025	12/16/2026
10	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	07/08/2025	07/07/2026
11	Switcher	TST	FY562	KUS2001M001-4	12/17/2025	12/16/2026
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	12/17/2025	12/16/2026
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	07/15/2025	07/14/2026
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	12/30/2025	12/29/2026
15	Software	BST	TST-PASS	/	NCR	NCR
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	07/09/2025	07/08/2026
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	12/17/2025	12/16/2026
3	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
4	Loop Antenna (9KHz-30MHz)	COM-POWER	AL-130R	KUS1806E001	07/11/2025	07/10/2026
5	Bilog Antenna (30MHz-1GHz)	TESEQ	CBL 6112D	KUS1806E005	07/12/2025	07/11/2026
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	01/11/2026	01/10/2028
7	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/11/2026	01/10/2028
8	Amplifier(30MHz~1GHz)	TST	LNA009100G30	KSEM061	12/18/2025	12/17/2026
9	Amplifier(400MHz~8GHz)	TST	LNA004080G30	KSEM062	12/18/2025	12/17/2026
10	Amplifier(1GHz~18GHz)	TST	LNA010180G45	KSEM039	07/09/2025	07/08/2026
11	Amplifier(18~40GHz)	TST	LNA180400G40	KSEM038	07/09/2025	07/08/2026
12	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	12/30/2025	12/29/2026
13	Software	ESE	E3 V 6.111221a	/	NCR	NCR
14	Measurement Software	Tonscend	JS32-RE V5.0.0.1	/	NCR	NCR
15	Measurement Software	Tonscend	JS32-RSE V5.0.0.0	/	NCR	NCR

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna is Dipole Antenna and no consideration of replacement. The best case gain of the Antenna is 2.1dBi.

Antenna location: Refer to internal photo.

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

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 Radiated Emissions (Below 1GHz)

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

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

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

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

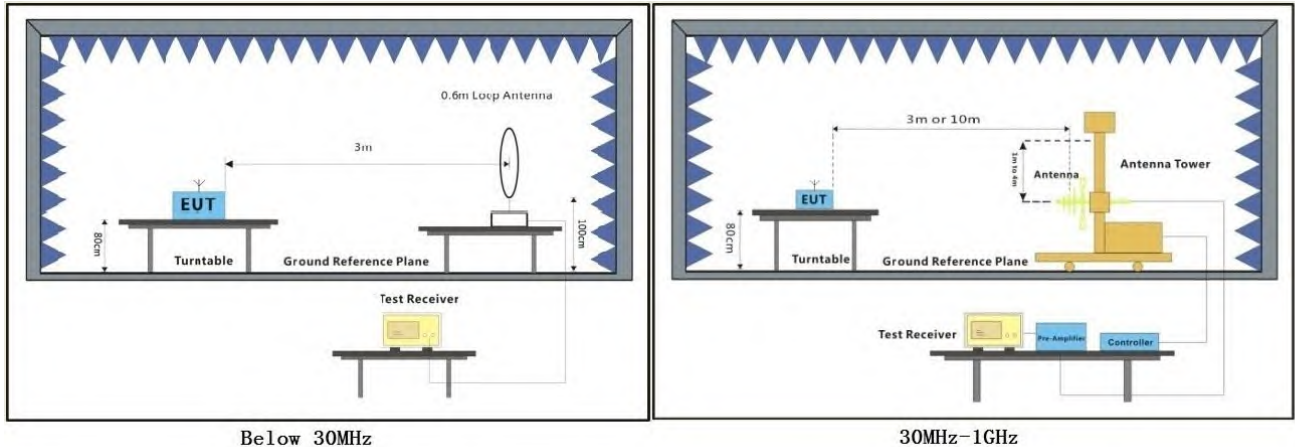
Humidity: 46.5 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



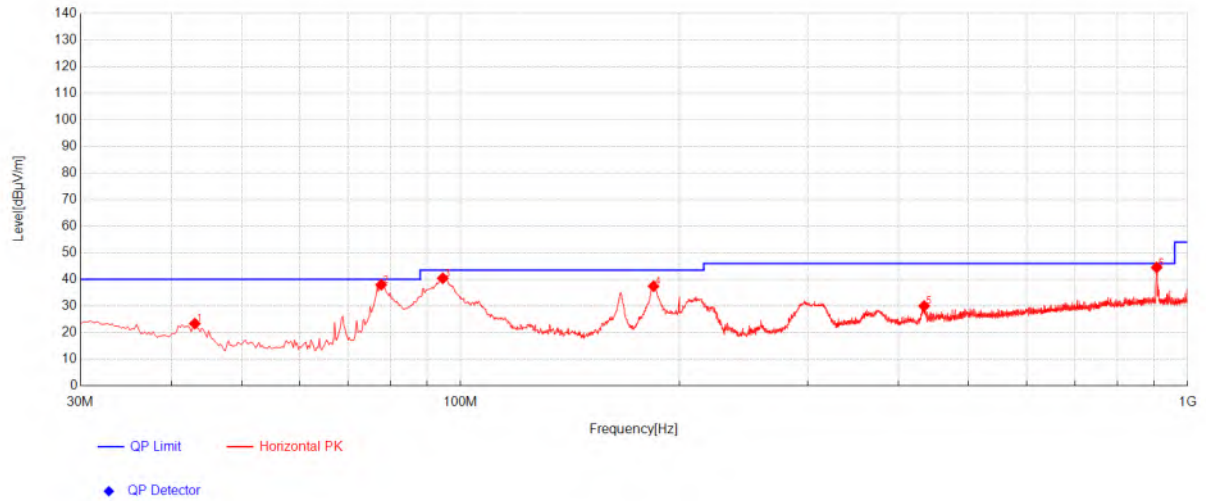
7.1.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- The antenna height is varied from 1m to 4m 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- 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 below 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.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

Test Mode: 00

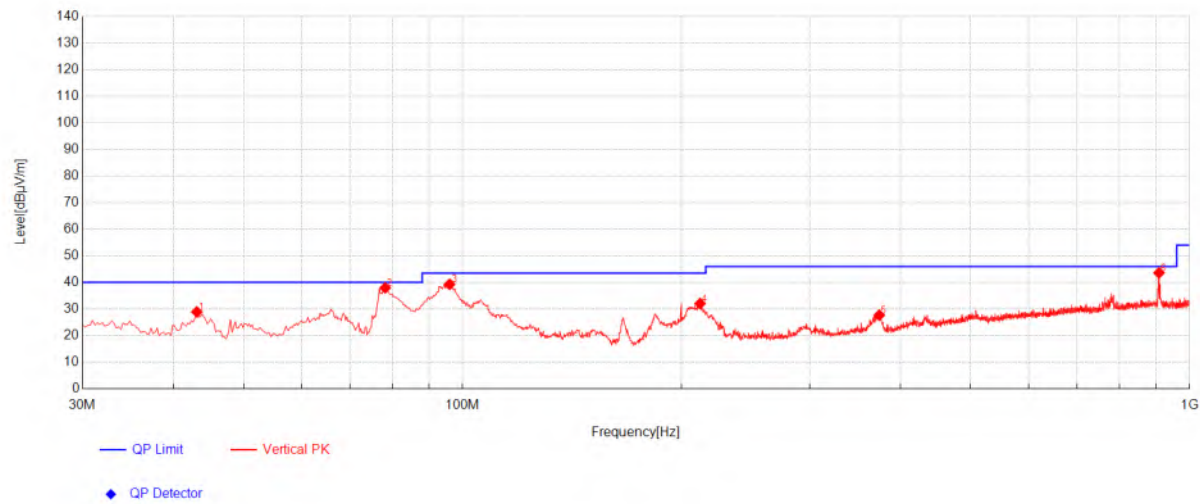


Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	43.095	46.16	9.62	-32.39	23.39	40.00	16.61	Horizontal
2	77.7725	60.98	9.03	-32.02	37.99	40.00	2.01	Horizontal
3	94.505	60.66	11.65	-31.88	40.43	43.50	3.07	Horizontal
4	184.23	57.58	11.28	-31.43	37.43	43.50	6.07	Horizontal
5	434.005	42.84	17.58	-30.42	30.00	46.00	16.00	Horizontal
6	906.395	50.35	23.21	-29.08	44.48	46.00	1.52	Horizontal



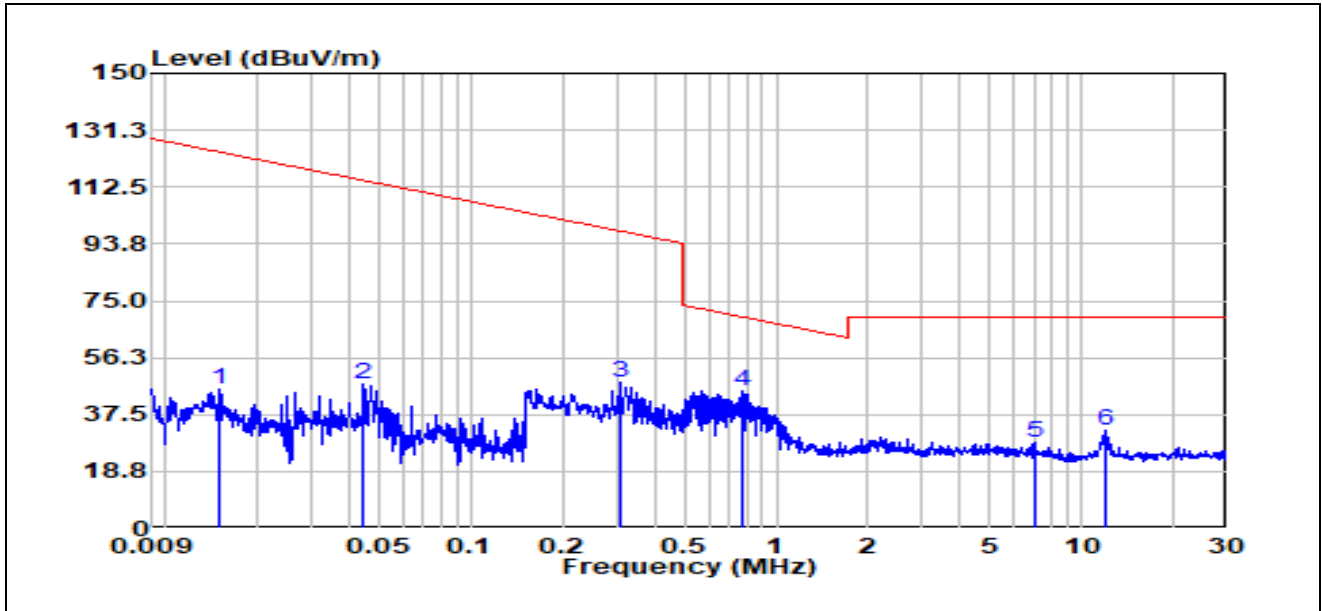
Test Mode: 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	43.095	51.68	9.62	-32.39	28.91	40.00	11.09	Vertical
2	78.2575	60.81	9.15	-32.01	37.95	40.00	2.05	Vertical
3	95.96	59.74	11.42	-31.87	39.29	43.50	4.21	Vertical
4	212.1175	51.96	11.33	-31.24	32.05	43.50	11.45	Vertical
5	374.1075	42.43	15.98	-30.73	27.68	46.00	18.32	Vertical
6	907.365	49.35	23.29	-29.07	43.57	46.00	2.43	Vertical

Test mode: 00 Coaxial

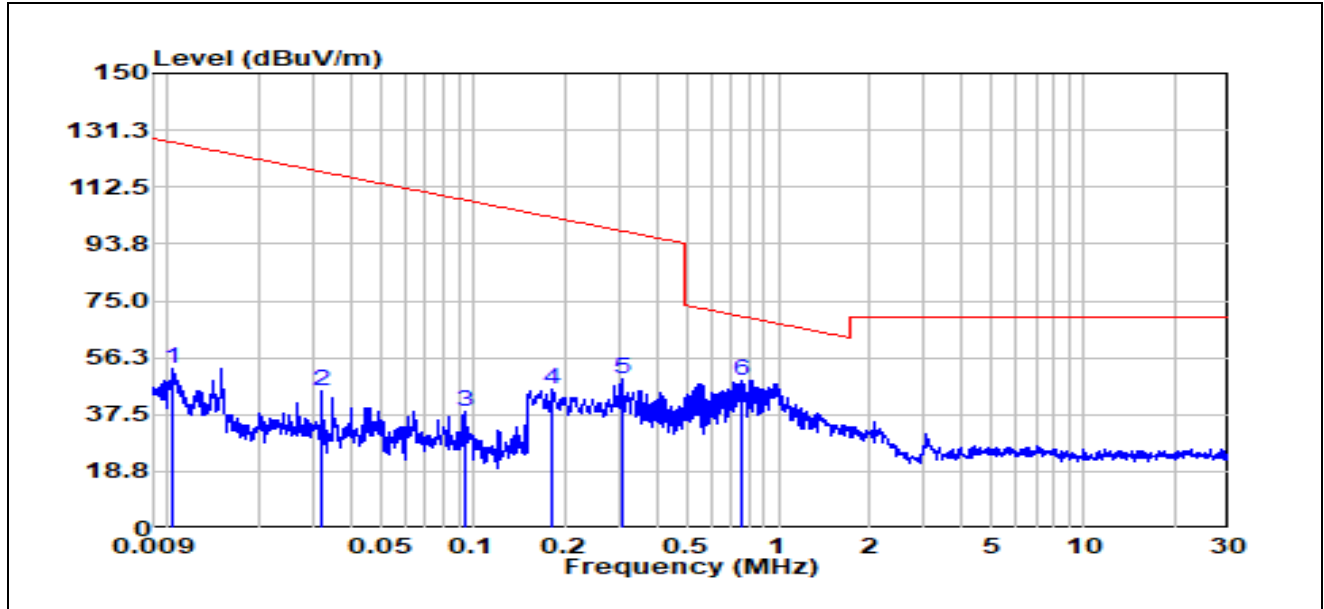
Test Data :



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	0.02	25.64	20.36	45.99	124.03	-78.03	100	0	AV
2	0.04	27.28	20.35	47.63	114.66	-67.03	100	54	AV
3	0.31	27.52	20.51	48.03	97.83	-49.80	100	220	AV
4	0.77	24.73	20.43	45.16	69.88	-24.72	100	292	QP
5	7.02	7.64	20.89	28.53	69.50	-40.97	100	248	QP
6	12.00	11.26	21.06	32.32	69.50	-37.18	100	248	QP

Test mode: 00 Coplanar

Test Data :



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	0.01	32.25	20.32	52.57	127.30	-74.73	100	320	AV
2	0.03	24.62	20.44	45.06	117.48	-72.42	100	194	AV
3	0.09	17.82	20.49	38.31	108.11	-69.80	100	152	AV
4	0.18	25.24	20.57	45.81	102.34	-56.53	100	149	AV
5	0.31	28.54	20.51	49.05	97.87	-48.81	100	128	AV
6	0.75	28.40	20.44	48.83	70.09	-21.26	100	284	QP

7.2 Radiated Emissions (Above 1GHz)

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

Test Method: ANSI C63.10 (2020) Section 6.6 & 12.7

Measurement Distance: 3m

Limit:

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

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

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

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark:

1. 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 1000MHz. 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.

2. Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

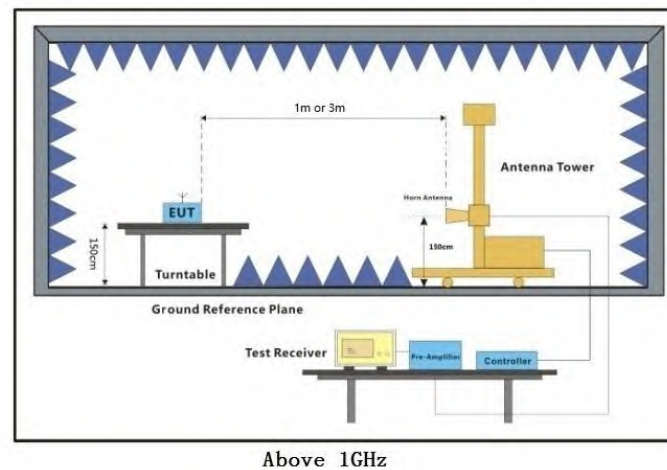
Humidity: 50.2 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



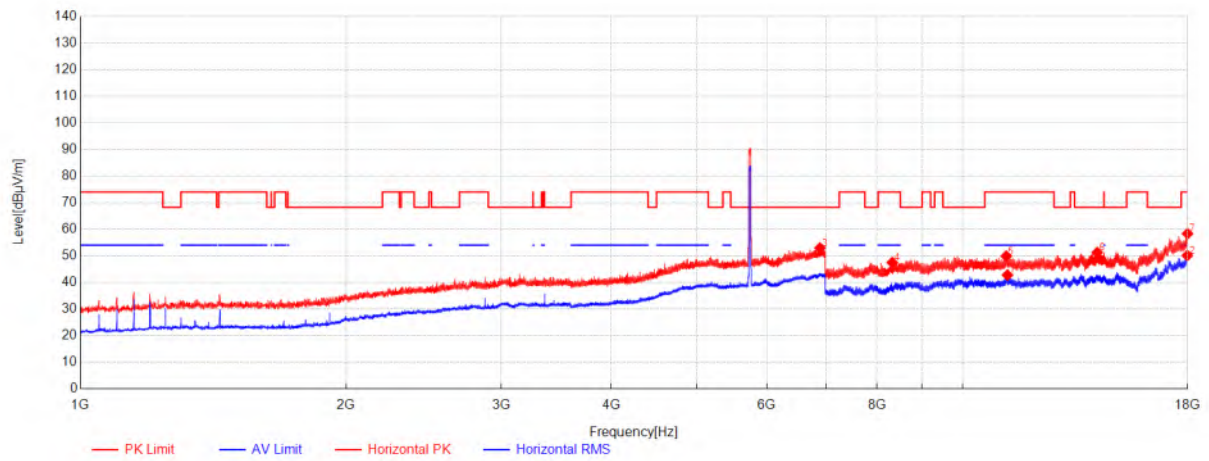
7.2.4 Measurement Procedure and Data

- 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:

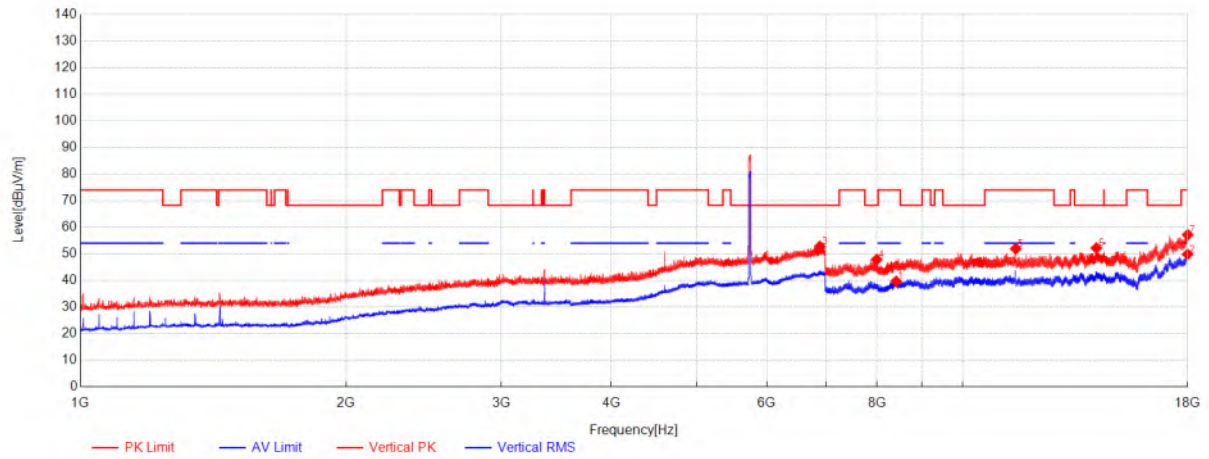
1. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$
2. Scan from 1GHz to 40GHz, The points marked on below plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from 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 below harmonics were the highest point could be found when testing, so only the below harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

11a_TX_CH_149_Horizontal



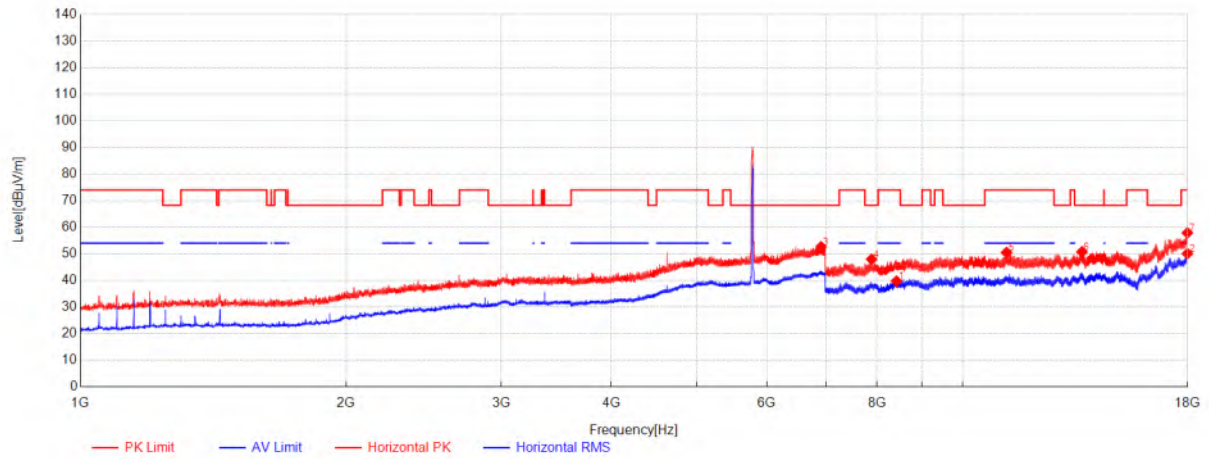
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11245.2667	47.71	39.59	-44.52	42.78	54.00	11.22	Horizontal
2	17984.9667	48.84	43.20	-41.95	50.09	54.00	3.91	Horizontal
3	6893	38.91	35.10	-21.10	52.91	68.20	15.29	Horizontal
4	8325.5	58.21	36.75	-47.49	47.47	74.00	26.53	Horizontal
5	11210.4333	54.87	39.52	-44.51	49.88	74.00	24.12	Horizontal
6	14214.9	52.88	40.48	-42.16	51.20	68.20	17.00	Horizontal
7	17993.7667	56.95	43.20	-41.83	58.32	74.00	15.68	Horizontal

11a_TX_CH_149_Vertical



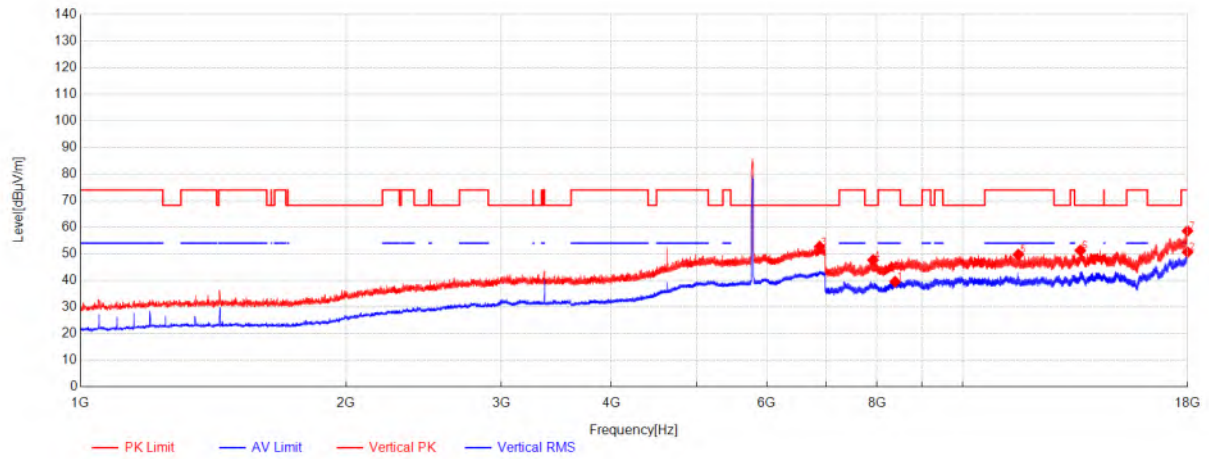
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8409.1	49.54	37.05	-46.98	39.61	54.00	14.39	Vertical
2	17996.7	48.40	43.20	-41.79	49.81	54.00	4.19	Vertical
3	6891.5	38.79	35.08	-21.10	52.77	68.20	15.43	Vertical
4	7993.6667	58.04	36.87	-47.08	47.83	68.20	20.37	Vertical
5	11490.5667	56.97	39.58	-44.67	51.88	74.00	22.12	Vertical
6	14183.7333	53.88	40.60	-42.34	52.14	68.20	16.06	Vertical
7	17999.2667	55.69	43.20	-41.76	57.13	74.00	16.87	Vertical

11a_TX_CH_157_Horizontal



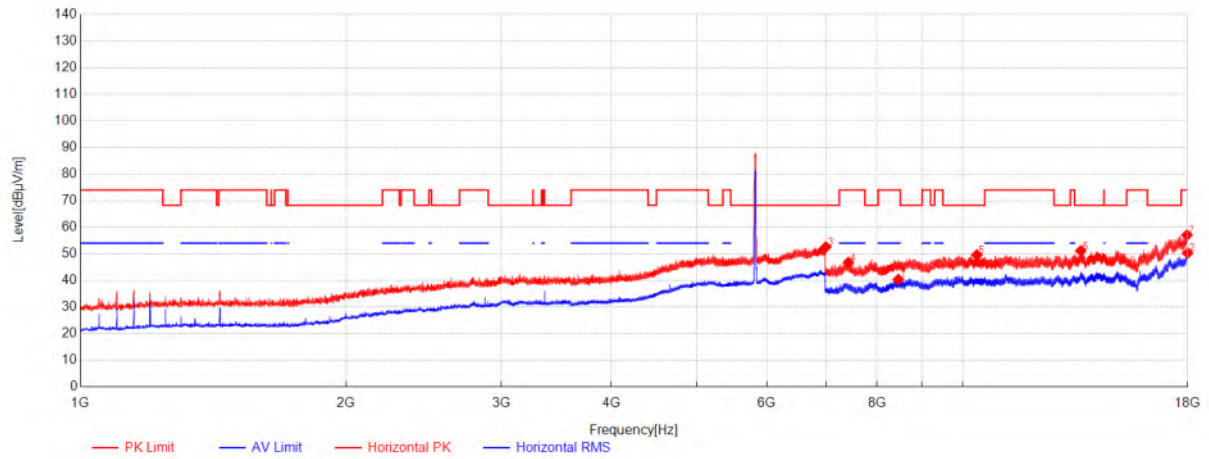
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8417.1667	49.62	37.00	-46.91	39.71	54.00	14.29	Horizontal
2	17988.2667	48.76	43.20	-41.90	50.06	54.00	3.94	Horizontal
3	6912.5	38.59	35.18	-21.16	52.61	68.20	15.59	Horizontal
4	7887.7	57.68	36.85	-46.58	47.95	68.20	20.25	Horizontal
5	11217.0333	55.45	39.53	-44.51	50.47	74.00	23.53	Horizontal
6	13659.0333	52.99	40.52	-42.80	50.71	68.20	17.49	Horizontal
7	17986.4333	56.57	43.20	-41.93	57.84	74.00	16.16	Horizontal

11a_TX_CH_157_Vertical



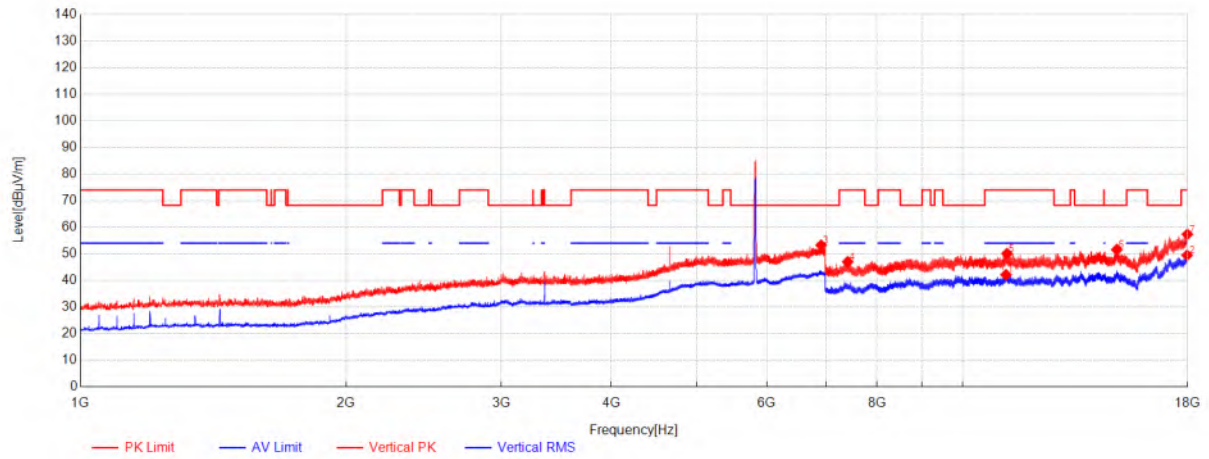
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8386	49.72	36.96	-47.15	39.53	54.00	14.47	Vertical
2	17996.3333	49.22	43.20	-41.80	50.62	54.00	3.38	Vertical
3	6888	38.77	35.03	-21.12	52.68	68.20	15.52	Vertical
4	7915.9333	57.29	36.84	-46.50	47.63	68.20	20.57	Vertical
5	11568.3	54.55	39.47	-44.31	49.71	74.00	24.29	Vertical
6	13601.4667	53.53	40.40	-42.69	51.24	68.20	16.96	Vertical
7	17991.9333	57.22	43.20	-41.86	58.56	74.00	15.44	Vertical

11a_TX_CH_165_Horizontal



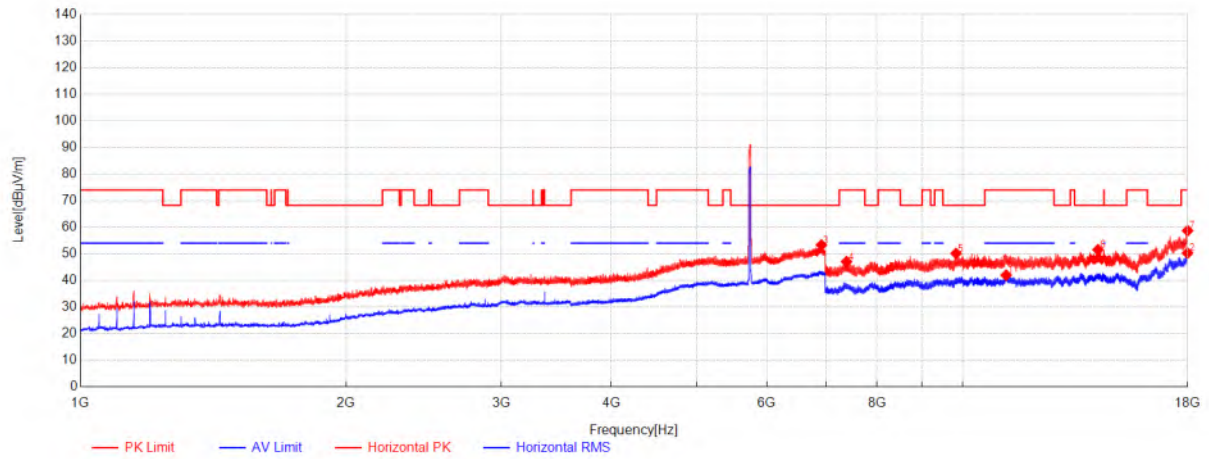
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8457.8667	50.02	36.82	-46.51	40.33	54.00	13.67	Horizontal
2	17996.3333	48.85	43.20	-41.80	50.25	54.00	3.75	Horizontal
3	6997	38.81	35.48	-21.78	52.51	68.20	15.69	Horizontal
4	7422.4	57.82	36.26	-47.38	46.70	74.00	27.30	Horizontal
5	10382.1333	54.89	39.37	-44.73	49.53	68.20	18.67	Horizontal
6	13616.8667	53.40	40.43	-42.72	51.11	68.20	17.09	Horizontal
7	17970.6667	55.97	43.20	-42.13	57.04	74.00	16.96	Horizontal

11a_TX_CH_165_Vertical



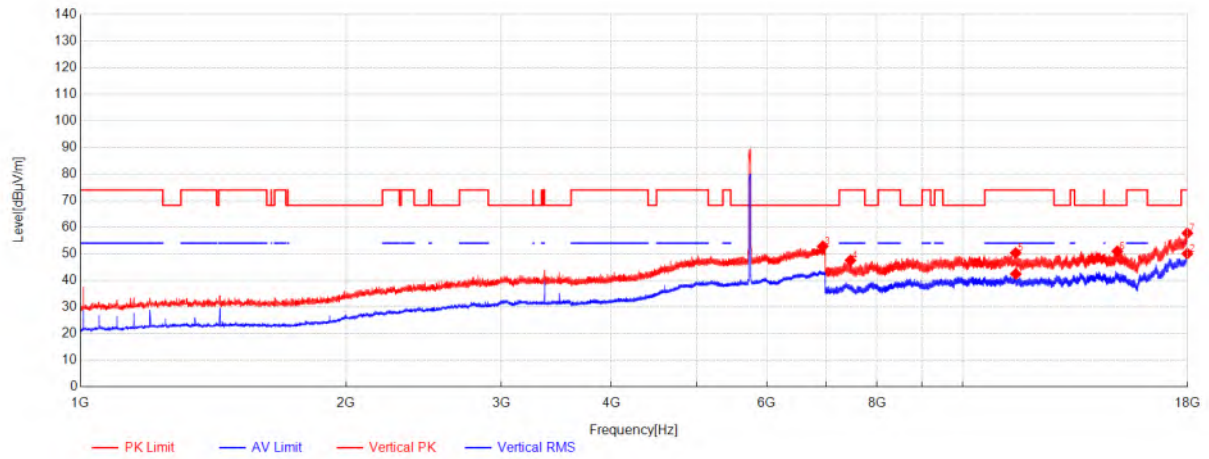
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11202.3667	47.13	39.50	-44.51	42.12	54.00	11.88	Vertical
2	17973.6	48.35	43.20	-42.10	49.45	54.00	4.55	Vertical
3	6914.5	39.21	35.17	-21.18	53.20	68.20	15.00	Vertical
4	7410.6667	58.00	36.28	-47.29	46.99	74.00	27.01	Vertical
5	11233.5333	55.03	39.57	-44.52	50.08	74.00	23.92	Vertical
6	14959.2333	53.70	39.76	-41.91	51.55	68.20	16.65	Vertical
7	17983.1333	56.09	43.20	-41.97	57.32	74.00	16.68	Vertical

11ax(HE20)_TX_CH_149_Horizontal



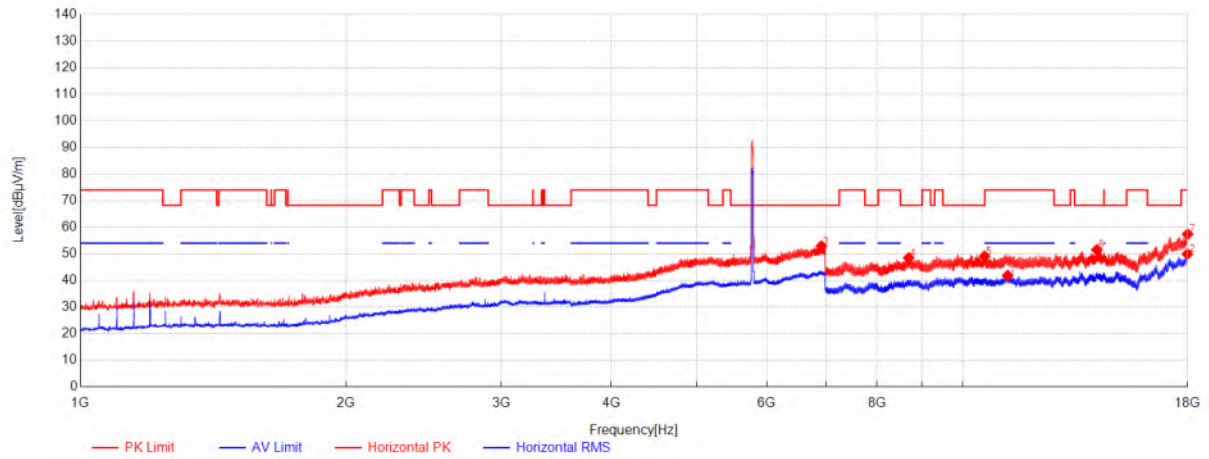
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11206.7667	46.99	39.51	-44.51	41.99	54.00	12.01	Horizontal
2	17992.6667	48.90	43.20	-41.85	50.25	54.00	3.75	Horizontal
3	6918.5	39.34	35.16	-21.21	53.29	68.20	14.91	Horizontal
4	7387.9333	57.98	36.32	-47.27	47.03	74.00	26.97	Horizontal
5	9832.8667	56.28	38.67	-44.82	50.13	68.20	18.07	Horizontal
6	14243.5	53.55	40.25	-42.31	51.49	68.20	16.71	Horizontal
7	17998.9	57.23	43.20	-41.76	58.67	74.00	15.33	Horizontal

11ax(HE20)_TX_CH_149_Verical



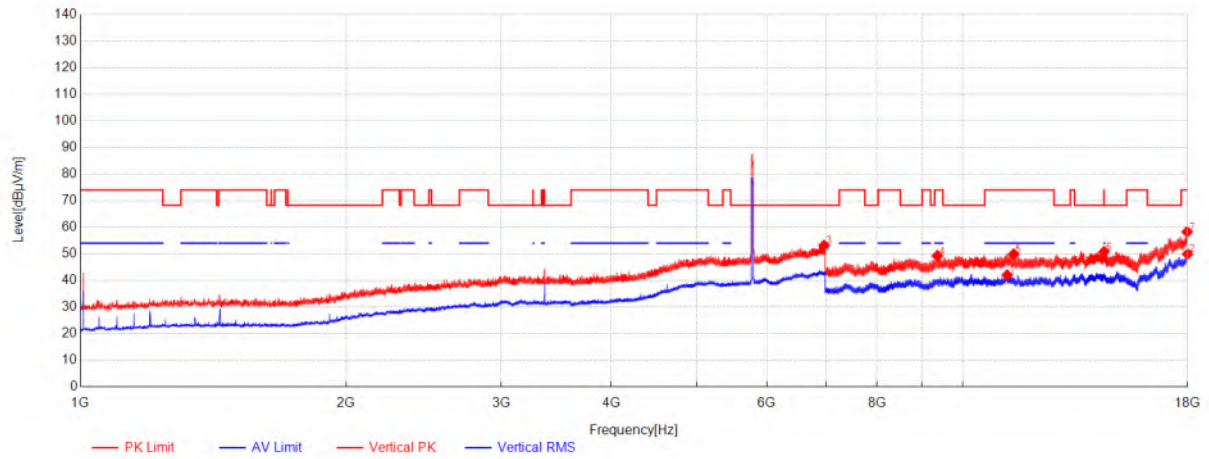
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11493.5	47.53	39.59	-44.69	42.43	54.00	11.57	Vertical
2	17985.7	48.79	43.20	-41.94	50.05	54.00	3.95	Vertical
3	6944.5	39.11	35.11	-21.39	52.83	68.20	15.37	Vertical
4	7464.9333	58.89	36.32	-47.71	47.50	74.00	26.50	Vertical
5	11488.7333	55.38	39.58	-44.66	50.30	74.00	23.70	Vertical
6	14977.2	52.84	39.69	-41.58	50.95	68.20	17.25	Vertical
7	17985.3333	56.48	43.20	-41.94	57.74	74.00	16.26	Vertical

11ax(HE20)_TX_CH_157_Horizontal



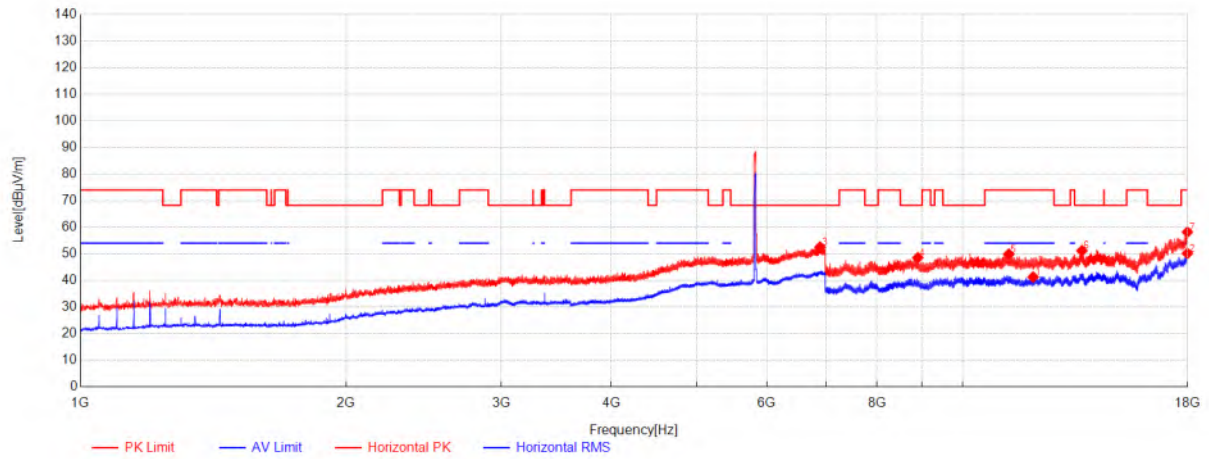
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11251.8667	46.76	39.59	-44.52	41.83	54.00	12.17	Horizontal
2	17987.1667	48.63	43.20	-41.92	49.91	54.00	4.09	Horizontal
3	6919	38.95	35.16	-21.21	52.90	68.20	15.30	Horizontal
4	8688.1333	56.84	37.48	-45.88	48.44	68.20	19.76	Horizontal
5	10589.3	54.74	39.48	-45.15	49.07	68.20	19.13	Horizontal
6	14196.9333	53.01	40.60	-42.13	51.48	68.20	16.72	Horizontal
7	17998.5333	55.97	43.20	-41.77	57.40	74.00	16.60	Horizontal

11ax(HE20)_TX_CH_157_Vertical



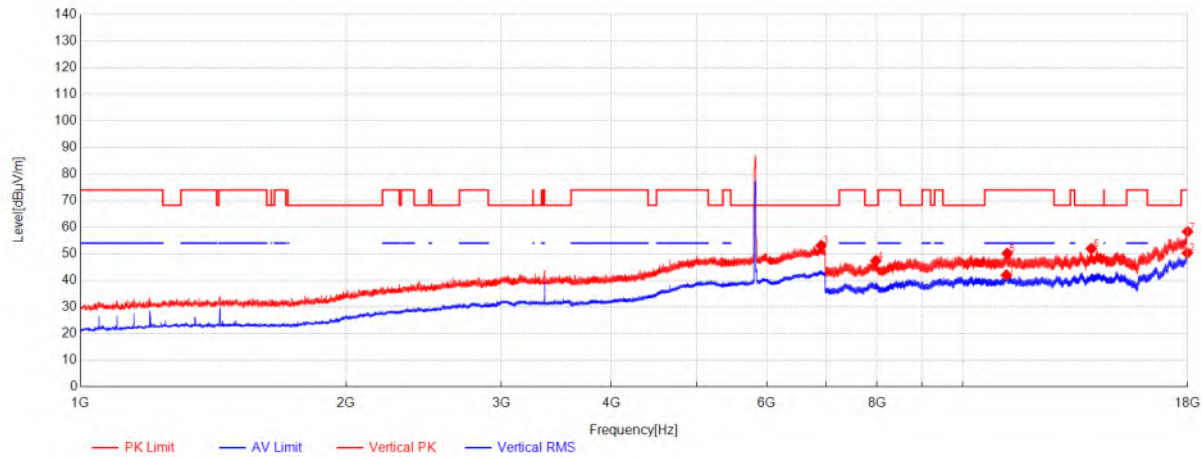
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11237.9333	46.98	39.58	-44.52	42.04	54.00	11.96	Vertical
2	17996.3333	48.50	43.20	-41.80	49.90	54.00	4.10	Vertical
3	6967	39.42	35.24	-21.56	53.10	68.20	15.10	Vertical
4	9363.5333	57.32	38.33	-46.42	49.23	74.00	24.77	Vertical
5	11428.2333	54.69	39.46	-44.30	49.85	74.00	24.15	Vertical
6	14469.7333	53.56	40.34	-43.12	50.78	68.20	17.42	Vertical
7	17972.1333	57.16	43.20	-42.12	58.24	74.00	15.76	Vertical

11ax(HE20)_TX_CH_165_Horizontal



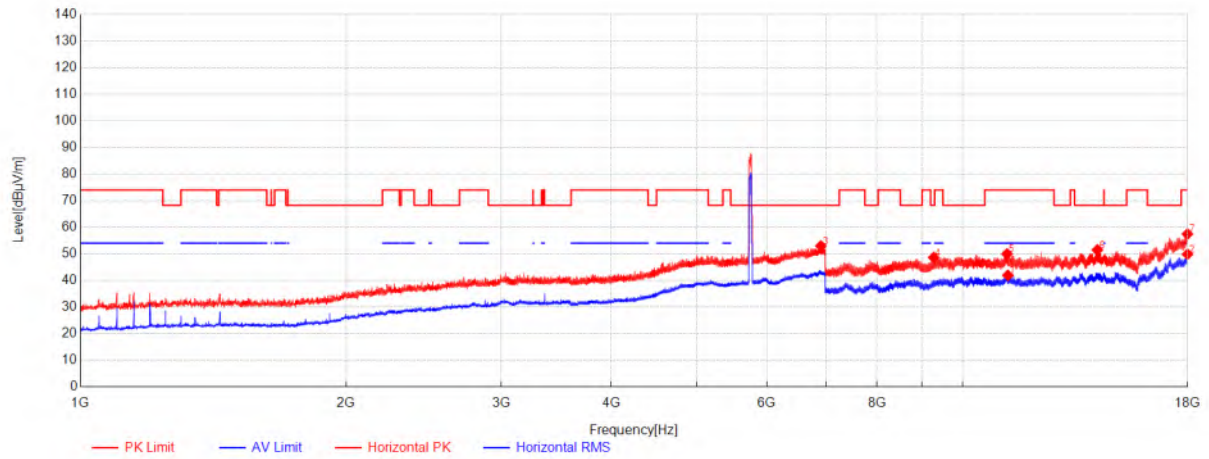
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	12024.4333	46.46	39.20	-44.38	41.28	54.00	12.72	Horizontal
2	17987.5333	48.84	43.20	-41.91	50.13	54.00	3.87	Horizontal
3	6894.5	38.48	35.12	-21.09	52.51	68.20	15.69	Horizontal
4	8897.8667	57.13	37.70	-46.33	48.50	68.20	19.70	Horizontal
5	11283.7667	54.93	39.46	-44.53	49.86	74.00	24.14	Horizontal
6	13657.5667	53.42	40.52	-42.79	51.15	68.20	17.05	Horizontal
7	17984.9667	56.90	43.20	-41.95	58.15	74.00	15.85	Horizontal

11ax(HE20)_TX_CH_165_Verical



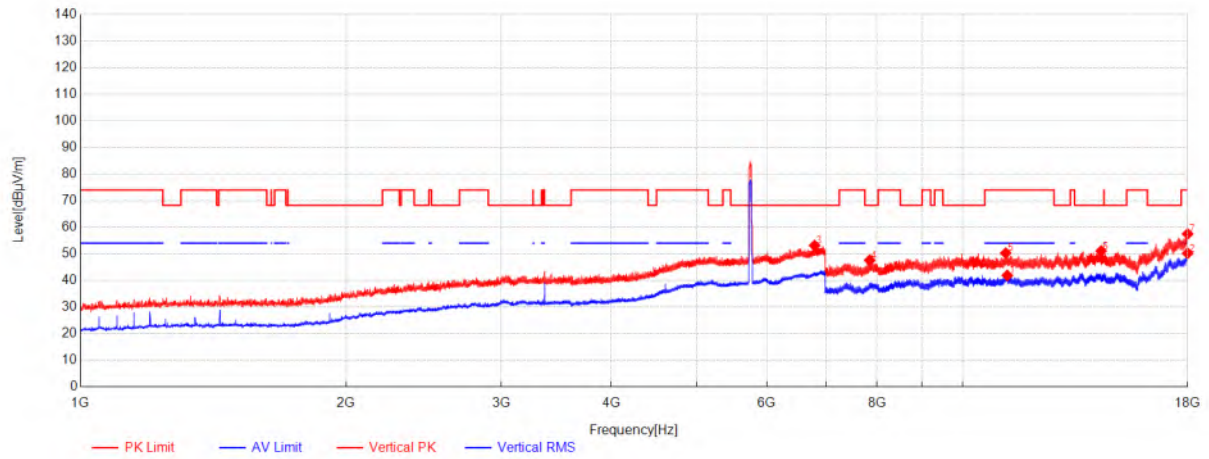
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	11216.6667	46.95	39.53	-44.51	41.97	54.00	12.03	Vertical
2	17984.9667	49.04	43.20	-41.95	50.29	54.00	3.71	Vertical
3	6914.5	39.06	35.17	-21.18	53.05	68.20	15.15	Vertical
4	7976.0667	57.51	36.80	-46.95	47.36	68.20	20.84	Vertical
5	11238.6667	55.07	39.58	-44.52	50.13	74.00	23.87	Vertical
6	13998.2	53.78	40.31	-42.18	51.91	68.20	16.29	Vertical
7	17997.0667	56.90	43.20	-41.79	58.31	74.00	15.69	Vertical

11n(HT40)_TX_CH_151_Horizontal



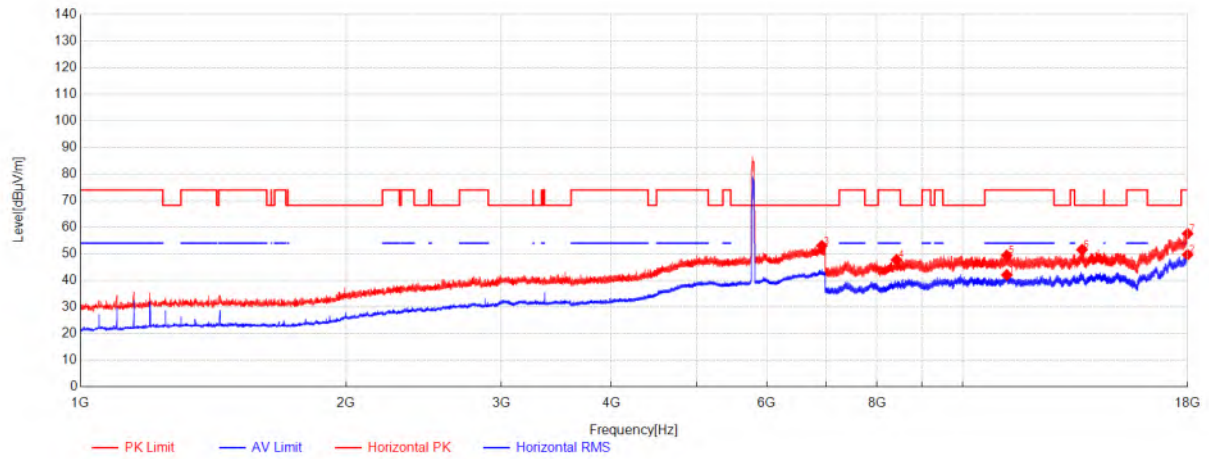
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11258.4667	46.88	39.57	-44.52	41.93	54.00	12.07	Horizontal
2	17992.3	48.48	43.20	-41.85	49.83	54.00	4.17	Horizontal
3	6908.5	38.89	35.18	-21.13	52.94	68.20	15.26	Horizontal
4	9275.1667	56.97	38.15	-46.53	48.59	68.20	19.61	Horizontal
5	11232.8	54.91	39.57	-44.52	49.96	74.00	24.04	Horizontal
6	14217.8333	53.15	40.46	-42.17	51.44	68.20	16.76	Horizontal
7	17989.3667	56.11	43.20	-41.89	57.42	74.00	16.58	Horizontal

11n(HT40)_TX_CH_151_Vertical



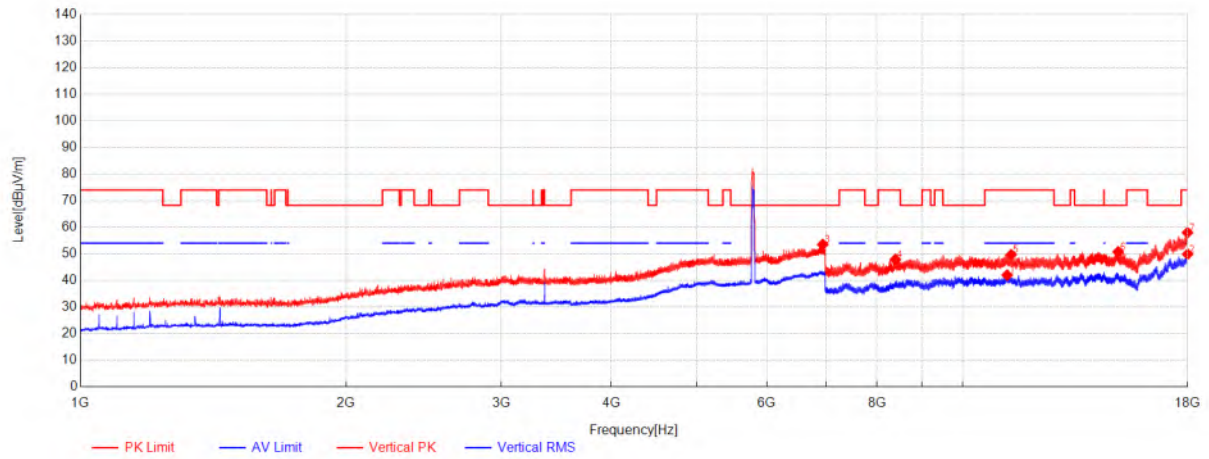
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11240.1333	46.82	39.58	-44.52	41.88	54.00	12.12	Vertical
2	17998.1667	48.74	43.20	-41.77	50.17	54.00	3.83	Vertical
3	6796.5	39.68	34.88	-21.48	53.08	68.20	15.12	Vertical
4	7848.8333	58.09	36.70	-47.21	47.58	68.20	20.62	Vertical
5	11193.9333	55.29	39.48	-44.53	50.24	74.00	23.76	Vertical
6	14359.7333	53.87	40.28	-43.10	51.05	68.20	17.15	Vertical
7	17998.1667	56.02	43.20	-41.77	57.45	74.00	16.55	Vertical

11n(HT40)_TX_CH_159_Horizontal



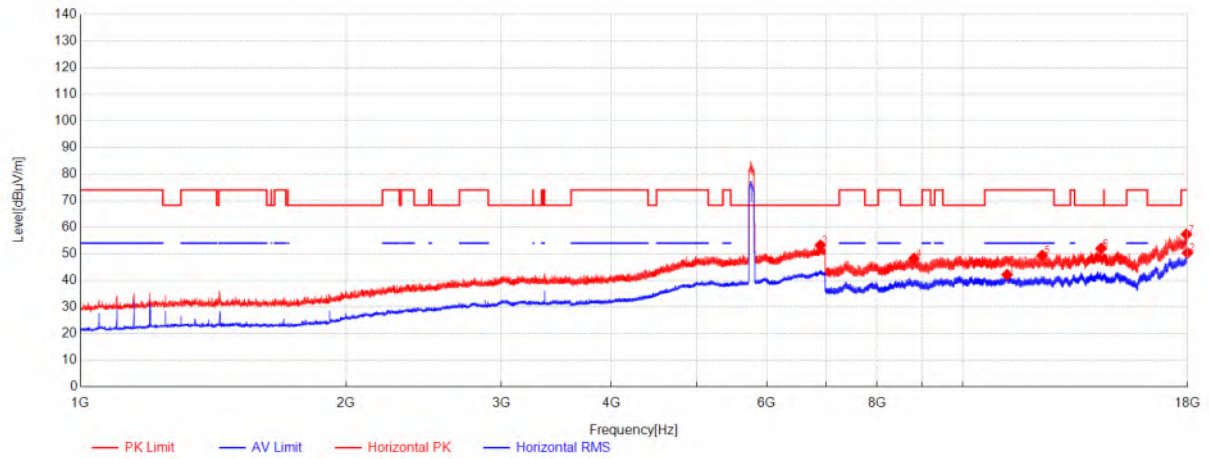
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11228.0333	47.03	39.56	-44.52	42.07	54.00	11.93	Horizontal
2	17996.7	48.24	43.20	-41.79	49.65	54.00	4.35	Horizontal
3	6927	39.13	35.15	-21.27	53.01	68.20	15.19	Horizontal
4	8418.6333	57.61	36.99	-46.89	47.71	74.00	26.29	Horizontal
5	11224	54.35	39.55	-44.51	49.39	74.00	24.61	Horizontal
6	13662.7	53.78	40.53	-42.80	51.51	68.20	16.69	Horizontal
7	17997.0667	56.13	43.20	-41.79	57.54	74.00	16.46	Horizontal

11n(HT40)_TX_CH_159_Vertical



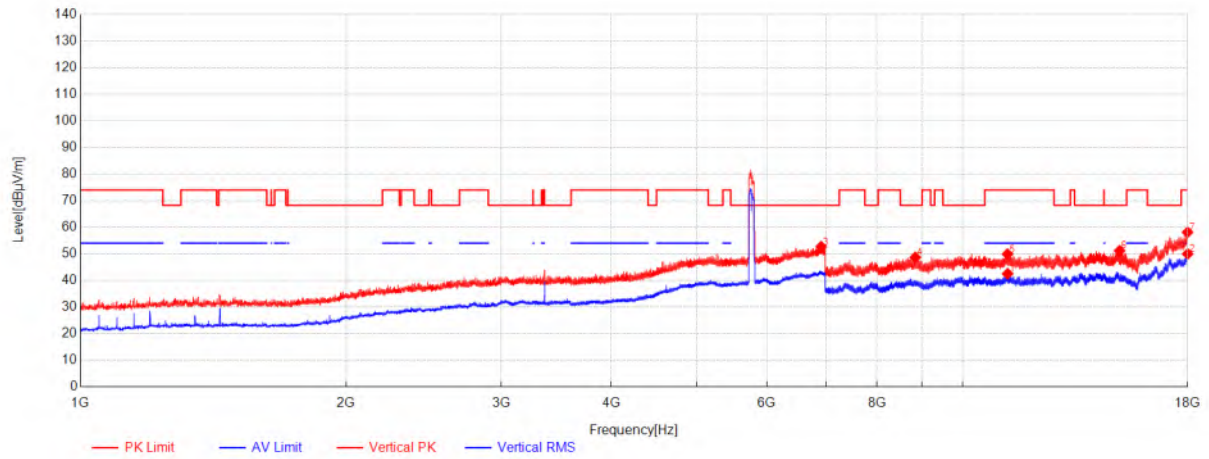
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11236.8333	46.95	39.57	-44.52	42.00	54.00	12.00	Vertical
2	17997.0667	48.44	43.20	-41.79	49.85	54.00	4.15	Vertical
3	6942	39.74	35.12	-21.38	53.48	68.20	14.72	Vertical
4	8392.9667	57.94	37.03	-47.11	47.86	74.00	26.14	Vertical
5	11353.8	54.45	39.49	-44.31	49.63	74.00	24.37	Vertical
6	15012.7667	52.47	39.65	-41.38	50.74	68.20	17.46	Vertical
7	17991.2	56.61	43.20	-41.87	57.94	74.00	16.06	Vertical

11ac(VHT80)_TX_CH_155_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11233.9	47.08	39.57	-44.52	42.13	54.00	11.87	Horizontal
2	17991.2	49.00	43.20	-41.87	50.33	54.00	3.67	Horizontal
3	6900.5	39.01	35.20	-21.07	53.14	68.20	15.06	Horizontal
4	8810.9667	57.16	37.54	-46.47	48.23	68.20	19.97	Horizontal
5	12313	53.57	39.05	-43.26	49.36	74.00	24.64	Horizontal
6	14360.8333	54.80	40.28	-43.10	51.98	68.20	16.22	Horizontal
7	17942.4333	56.71	43.12	-42.50	57.33	74.00	16.67	Horizontal

11ac(VHT80)_TX_CH_155_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11248.9333	47.42	39.60	-44.52	42.50	54.00	11.50	Vertical
2	18000	48.51	43.20	-41.75	49.96	54.00	4.04	Vertical
3	6914.5	38.67	35.17	-21.18	52.66	68.20	15.54	Vertical
4	8839.9333	57.42	37.66	-46.43	48.65	68.20	19.55	Vertical
5	11245.6333	54.82	39.59	-44.52	49.89	74.00	24.11	Vertical
6	15068.1333	53.79	39.69	-42.33	51.15	68.20	17.05	Vertical
7	17993.7667	56.72	43.20	-41.83	58.09	74.00	15.91	Vertical

7.3 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
Test Method: ANSI C63.10 (2020) Section 6.10.5 & 12.7.2
Measurement Distance: 3m

Limit:

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

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

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

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 50.2 % RH

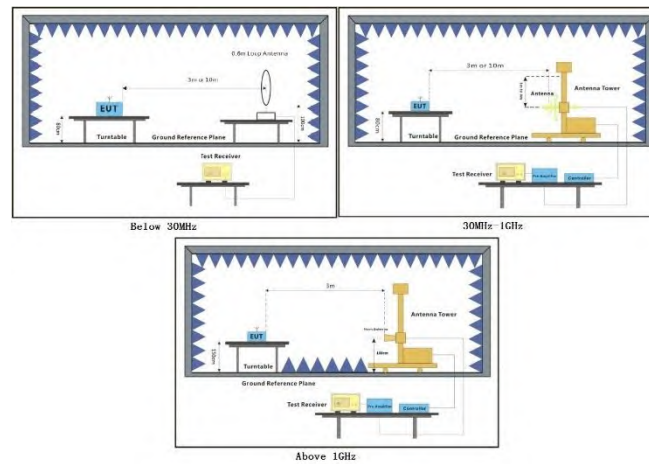
Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan /	Mode	Description
------------	------	-------------

Final test	Code	
Final test	01	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

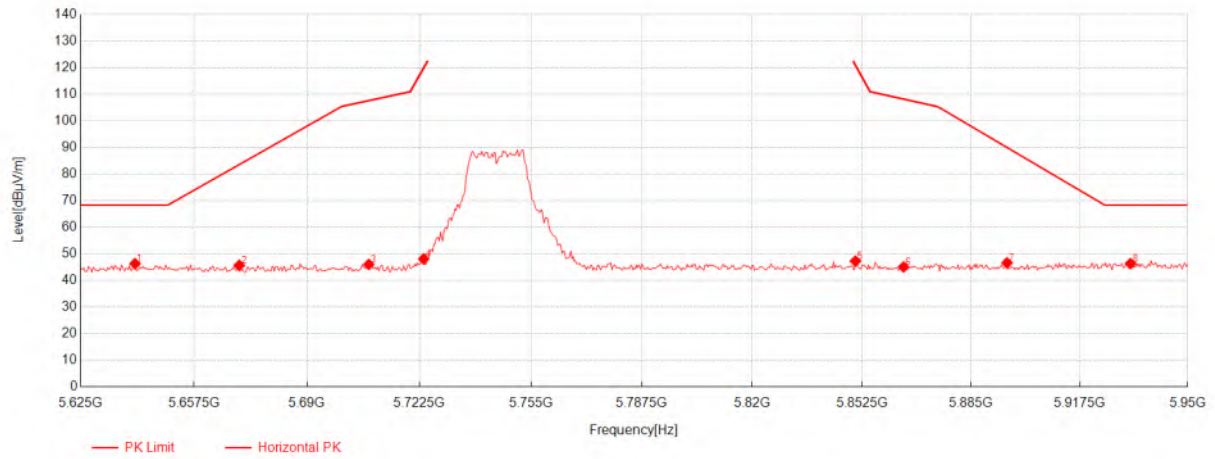
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5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

Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

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

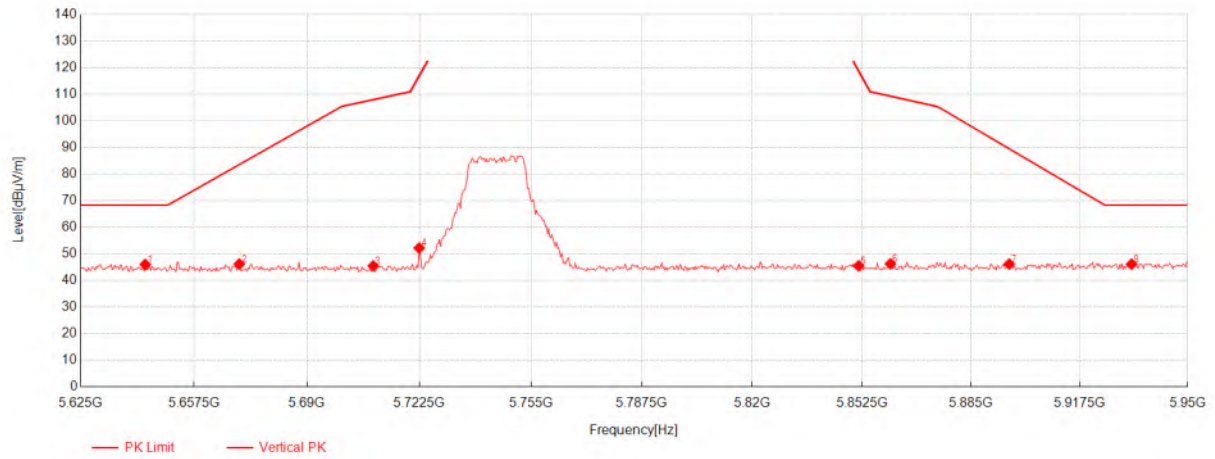
Remark 3: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

11a_TX_CH_149_Horizontal_Peak



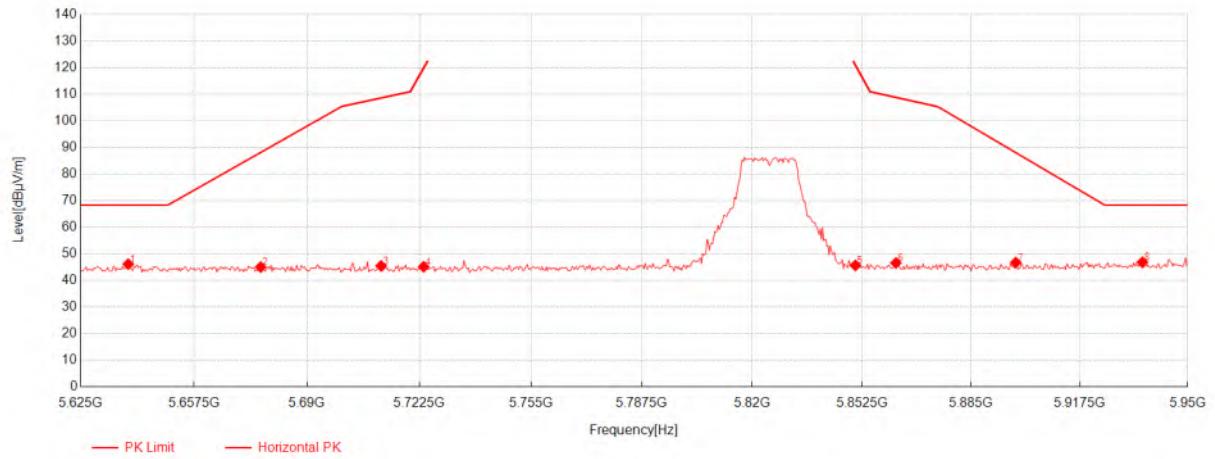
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5640.6	36.59	32.42	-22.71	46.30	68.30	22.00	Horizontal
2	5670.5	36.08	32.50	-22.94	45.64	83.51	37.87	Horizontal
3	5707.875	36.69	32.50	-23.19	46.00	107.51	61.51	Horizontal
4	5723.8	38.81	32.50	-23.24	48.07	119.56	71.49	Horizontal
5	5850.55	37.61	32.80	-23.17	47.24	121.05	73.81	Horizontal
6	5864.85	35.41	32.71	-23.09	45.03	108.14	63.11	Horizontal
7	5895.725	36.96	32.53	-22.91	46.58	89.93	43.35	Horizontal
8	5932.775	36.28	32.76	-22.71	46.33	68.30	21.97	Horizontal

11a_TX_CH_149_Vertical_Peak



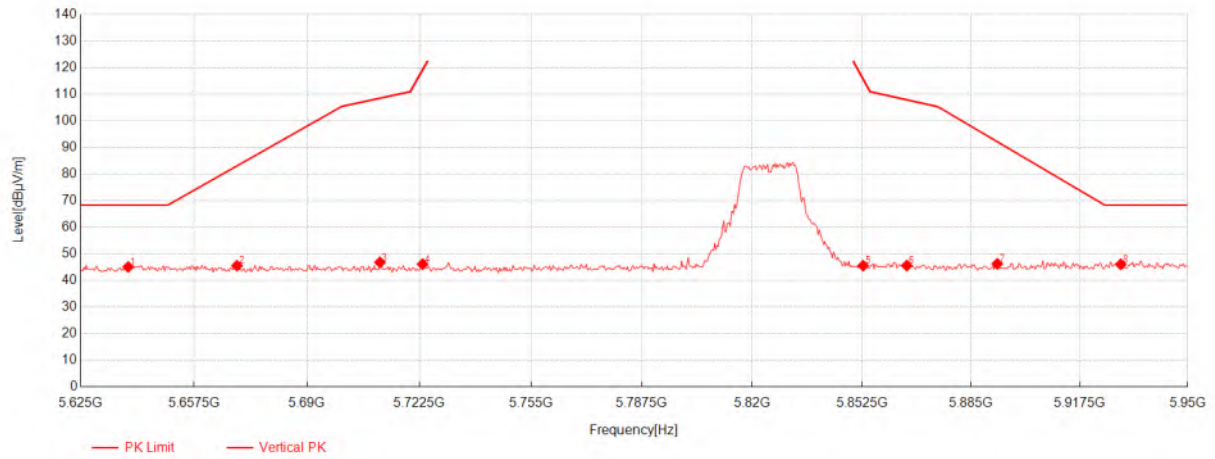
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5643.525	36.25	32.45	-22.74	45.96	68.30	22.34	Vertical
2	5670.5	36.58	32.50	-22.94	46.14	83.51	37.37	Vertical
3	5709.175	36.14	32.50	-23.20	45.44	107.87	62.43	Vertical
4	5722.5	42.89	32.50	-23.24	52.15	116.60	64.45	Vertical
5	5851.525	35.84	32.79	-23.17	45.46	118.82	73.36	Vertical
6	5860.95	36.59	32.73	-23.11	46.21	109.23	63.02	Vertical
7	5896.375	36.50	32.52	-22.90	46.12	89.44	43.32	Vertical
8	5933.1	36.05	32.76	-22.71	46.10	68.30	22.20	Vertical

11a_TX_CH_165_Horizontal_Peak



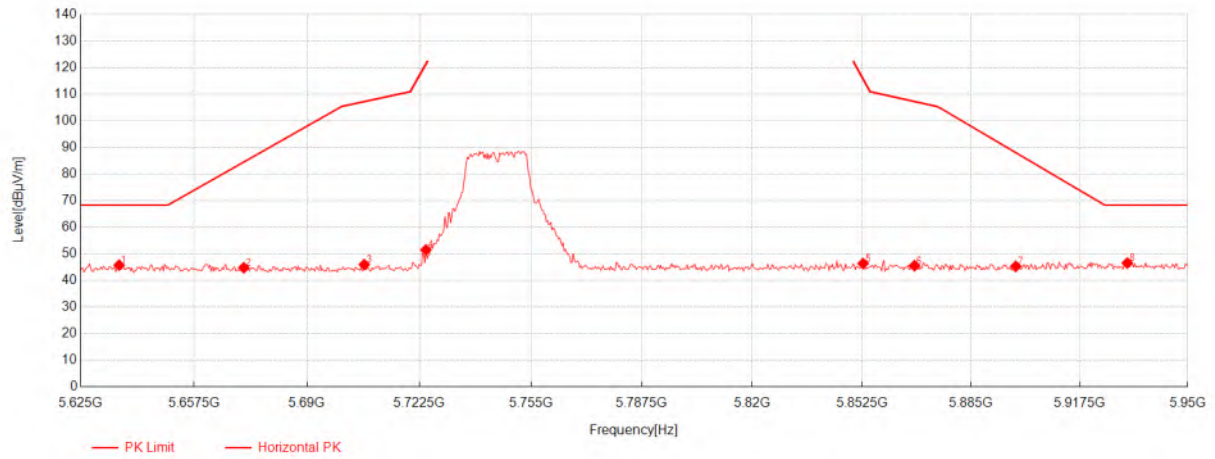
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5638.65	36.41	32.41	-22.70	46.12	68.30	22.18	Horizontal
2	5676.675	35.49	32.50	-22.99	45.00	88.08	43.08	Horizontal
3	5711.45	36.15	32.50	-23.20	45.45	108.51	63.06	Horizontal
4	5723.8	35.87	32.50	-23.24	45.13	119.56	74.43	Horizontal
5	5850.55	36.01	32.80	-23.17	45.64	121.05	75.41	Horizontal
6	5862.575	36.93	32.72	-23.10	46.55	108.78	62.23	Horizontal
7	5898.325	37.09	32.51	-22.89	46.71	88.00	41.29	Horizontal
8	5936.35	36.74	32.79	-22.69	46.84	68.30	21.46	Horizontal

11a_TX_CH_165_Vertical_Peak



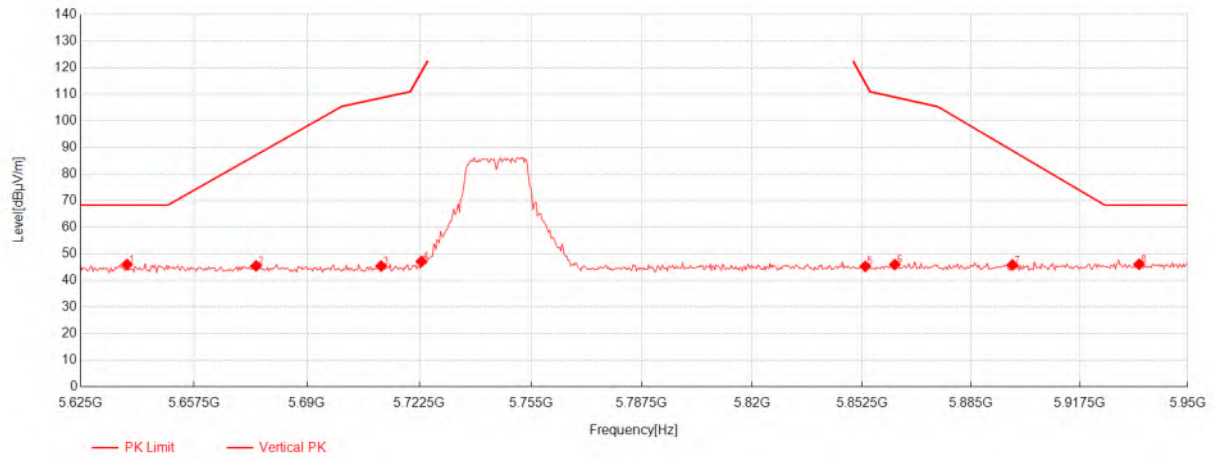
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5638.65	35.36	32.41	-22.70	45.07	68.30	23.23	Vertical
2	5669.85	35.99	32.50	-22.94	45.55	83.03	37.48	Vertical
3	5711.125	37.47	32.50	-23.20	46.77	108.42	61.65	Vertical
4	5723.475	36.83	32.50	-23.24	46.09	118.82	72.73	Vertical
5	5852.825	35.94	32.78	-23.16	45.56	115.86	70.30	Vertical
6	5865.825	35.92	32.71	-23.08	45.55	107.87	62.32	Vertical
7	5892.8	36.62	32.54	-22.92	46.24	92.09	45.85	Vertical
8	5929.85	36.03	32.74	-22.73	46.04	68.30	22.26	Vertical

11ac(VHT20)_TX_CH_149_Horizontal_Peak



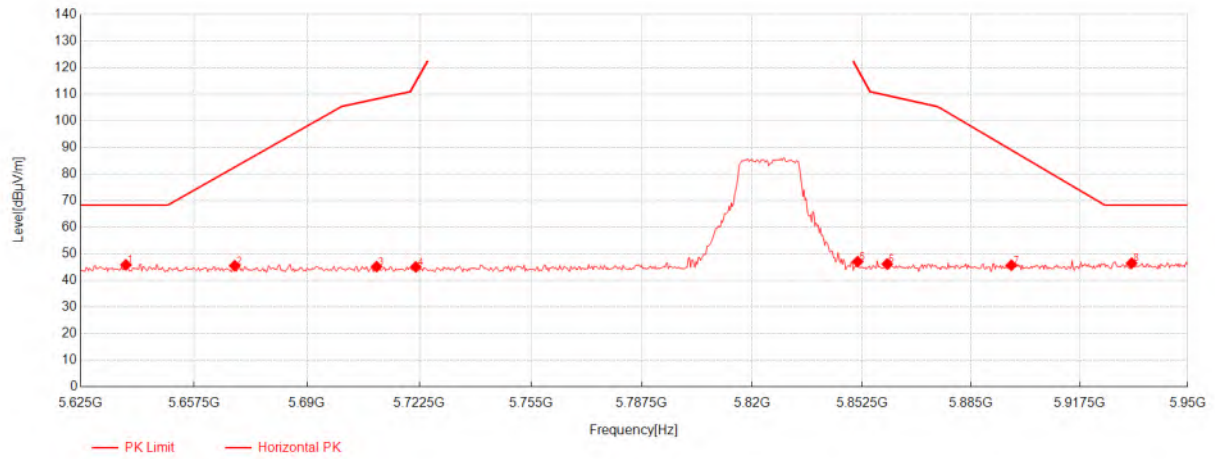
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5636.05	36.02	32.39	-22.68	45.73	68.30	22.57	Horizontal
2	5671.8	35.20	32.50	-22.95	44.75	84.47	39.72	Horizontal
3	5706.575	36.65	32.50	-23.19	45.96	107.14	61.18	Horizontal
4	5724.45	42.20	32.50	-23.24	51.46	121.05	69.59	Horizontal
5	5852.825	36.71	32.78	-23.16	46.33	115.86	69.53	Horizontal
6	5868.1	35.90	32.69	-23.07	45.52	107.23	61.71	Horizontal
7	5898.325	35.67	32.51	-22.89	45.29	88.00	42.71	Horizontal
8	5931.8	36.50	32.75	-22.72	46.53	68.30	21.77	Horizontal

11ac(VHT20)_TX_CH_149_Vertical_Peak



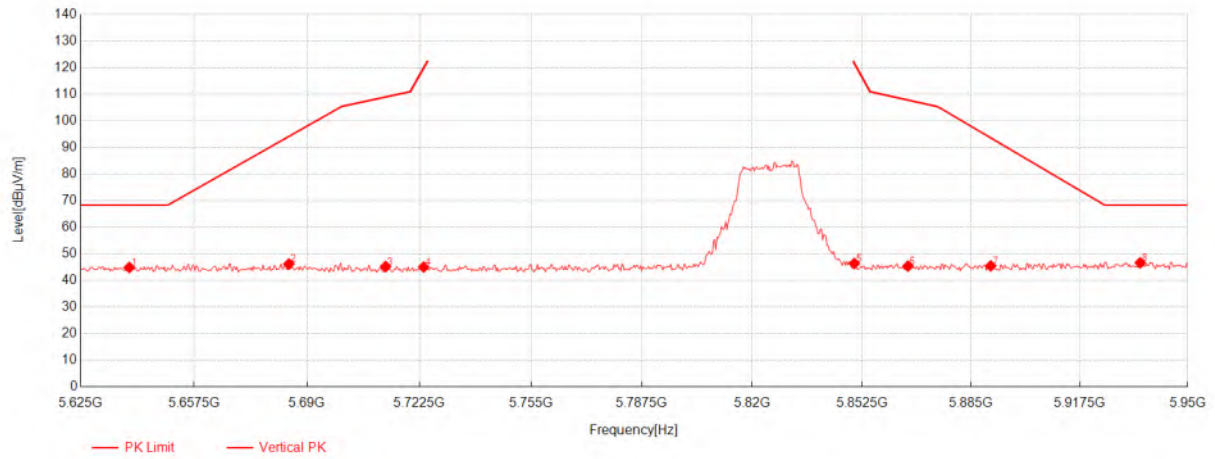
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5638.325	36.29	32.41	-22.70	46.00	68.30	22.30	Vertical
2	5675.375	35.93	32.50	-22.98	45.45	87.12	41.67	Vertical
3	5711.45	36.09	32.50	-23.20	45.39	108.51	63.12	Vertical
4	5723.15	37.85	32.50	-23.24	47.11	118.08	70.97	Vertical
5	5853.475	35.63	32.78	-23.15	45.26	114.38	69.12	Vertical
6	5862.25	36.32	32.73	-23.10	45.95	108.87	62.92	Vertical
7	5897.35	36.20	32.52	-22.90	45.82	88.72	42.90	Vertical
8	5935.375	35.99	32.78	-22.70	46.07	68.30	22.23	Vertical

11ac(VHT20)_TX_CH_165_Horizontal_Peak



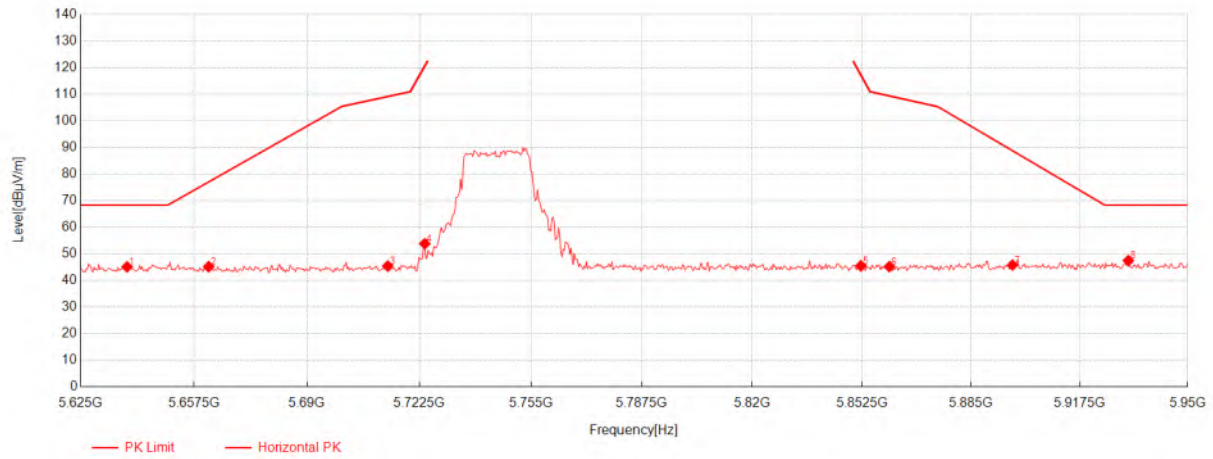
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5638	36.14	32.40	-22.69	45.85	68.30	22.45	Horizontal
2	5669.2	35.94	32.50	-22.93	45.51	82.55	37.04	Horizontal
3	5710.15	35.90	32.50	-23.20	45.20	108.14	62.94	Horizontal
4	5721.525	35.81	32.50	-23.23	45.08	114.38	69.30	Horizontal
5	5851.2	37.42	32.79	-23.17	47.04	119.56	72.52	Horizontal
6	5859.975	36.53	32.74	-23.12	46.15	109.51	63.36	Horizontal
7	5897.025	36.08	32.52	-22.90	45.70	88.96	43.26	Horizontal
8	5933.1	36.42	32.76	-22.71	46.47	68.30	21.83	Horizontal

11ac(VHT20)_TX_CH_165_Vertical_Peak



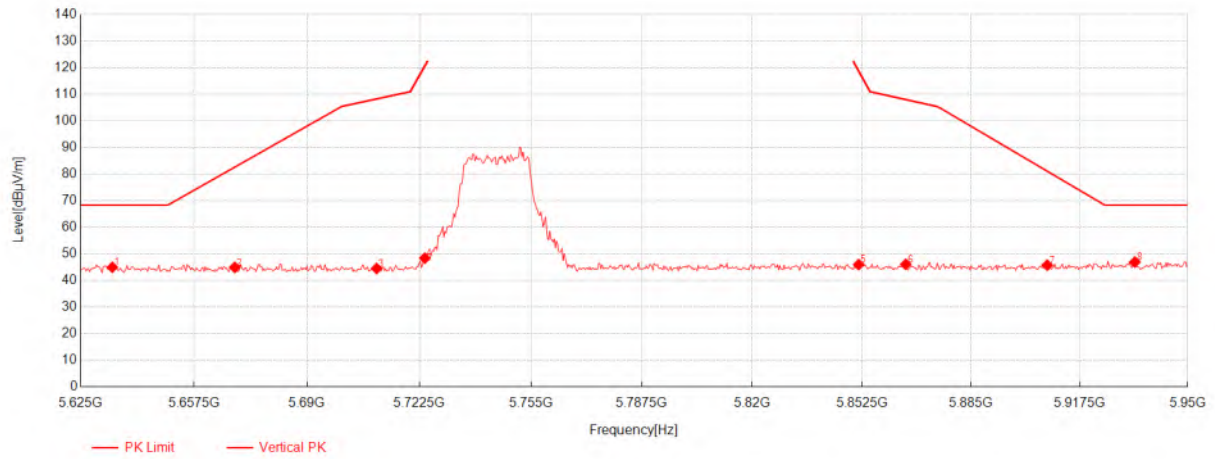
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5638.975	35.15	32.41	-22.70	44.86	68.30	23.44	Vertical
2	5684.8	36.72	32.50	-23.05	46.17	94.09	47.92	Vertical
3	5712.75	35.91	32.50	-23.21	45.20	108.87	63.67	Vertical
4	5723.8	35.74	32.50	-23.24	45.00	119.56	74.56	Vertical
5	5850.225	36.74	32.80	-23.17	46.37	121.79	75.42	Vertical
6	5866.15	35.74	32.70	-23.08	45.36	107.78	62.42	Vertical
7	5890.85	35.83	32.55	-22.93	45.45	93.54	48.09	Vertical
8	5935.7	36.51	32.79	-22.70	46.60	68.30	21.70	Vertical

11ax(HE20)_Full_TX_CH_149_Horizontal_Peak



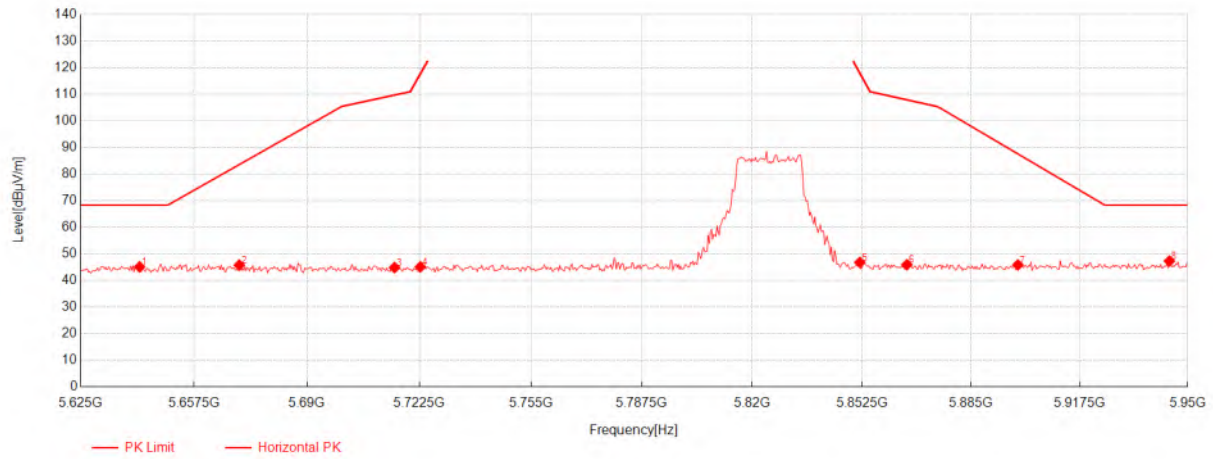
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5638.325	35.38	32.41	-22.70	45.09	68.30	23.21	Horizontal
2	5661.725	35.56	32.50	-22.88	45.18	77.01	31.83	Horizontal
3	5713.4	36.10	32.50	-23.21	45.39	109.05	63.66	Horizontal
4	5724.125	44.52	32.50	-23.24	53.78	120.31	66.53	Horizontal
5	5852.175	35.84	32.79	-23.16	45.47	117.34	71.87	Horizontal
6	5860.625	35.55	32.74	-23.11	45.18	109.32	64.14	Horizontal
7	5897.35	36.14	32.52	-22.90	45.76	88.72	42.96	Horizontal
8	5932.125	37.38	32.76	-22.72	47.42	68.30	20.88	Horizontal

11ax(HE20)_Full_TX_CH_149_Vertical_Peak



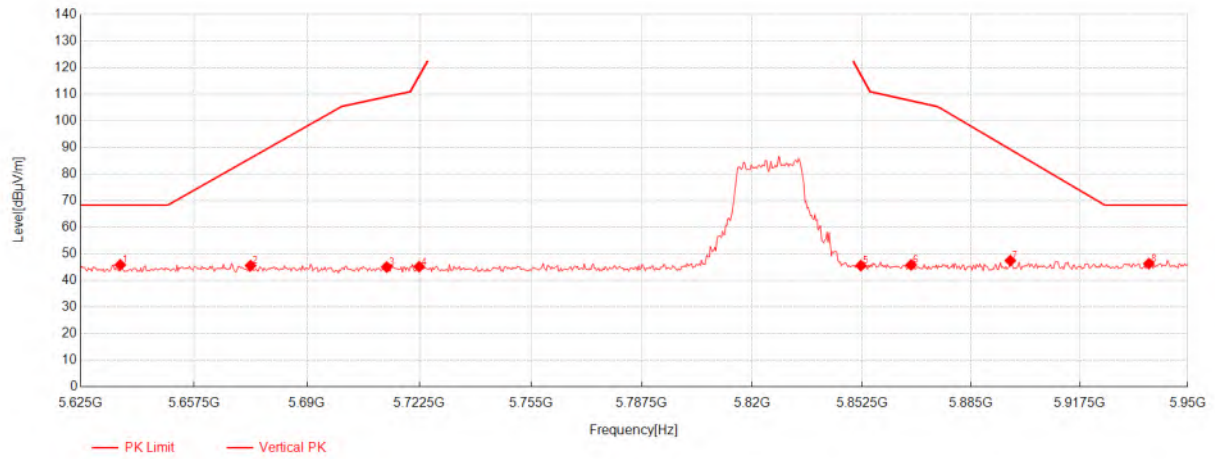
Data List								
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1	5634.1	35.22	32.37	-22.66	44.93	68.30	23.37	Vertical
2	5669.2	35.31	32.50	-22.93	44.88	82.55	37.67	Vertical
3	5710.15	35.17	32.50	-23.20	44.47	108.14	63.67	Vertical
4	5724.125	39.10	32.50	-23.24	48.36	120.31	71.95	Vertical
5	5851.525	36.32	32.79	-23.17	45.94	118.82	72.88	Vertical
6	5865.5	36.43	32.71	-23.08	46.06	107.96	61.90	Vertical
7	5907.75	35.99	32.56	-22.84	45.71	81.03	35.32	Vertical
8	5934.075	36.82	32.77	-22.71	46.88	68.30	21.42	Vertical

11ax(HE20)_Full_TX_CH_165_Horizontal_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5641.9	35.37	32.44	-22.72	45.09	68.30	23.21	Horizontal
2	5670.5	36.19	32.50	-22.94	45.75	83.51	37.76	Horizontal
3	5715.35	35.54	32.50	-23.22	44.82	109.60	64.78	Horizontal
4	5722.825	35.82	32.50	-23.24	45.08	117.34	72.26	Horizontal
5	5851.85	37.12	32.79	-23.16	46.75	118.08	71.33	Horizontal
6	5865.825	36.26	32.71	-23.08	45.89	107.87	61.98	Horizontal
7	5898.975	36.21	32.51	-22.89	45.83	87.52	41.69	Horizontal
8	5944.475	37.06	32.86	-22.65	47.27	68.30	21.03	Horizontal

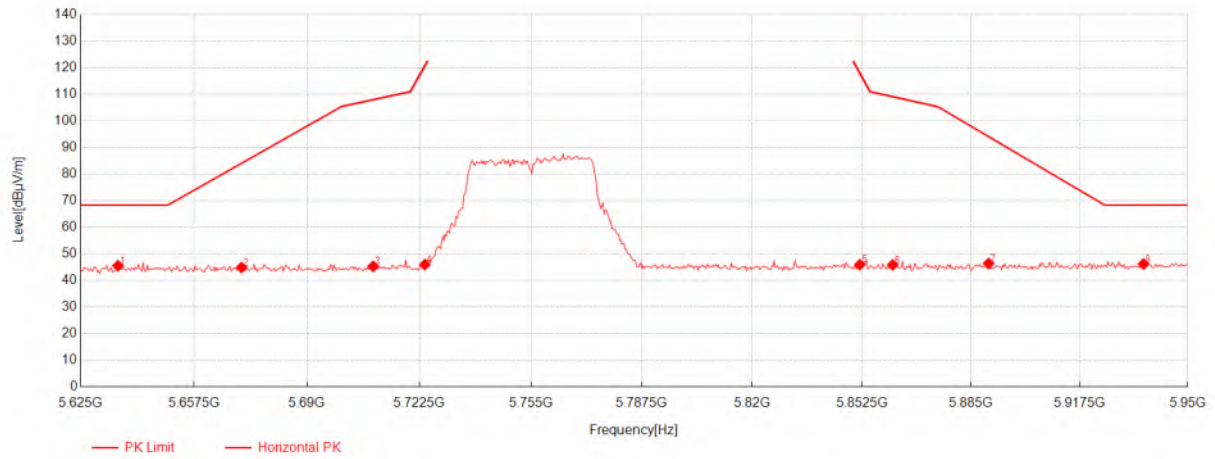
11ax(HE20)_Full_TX_CH_165_Vertical_Peak



Data List

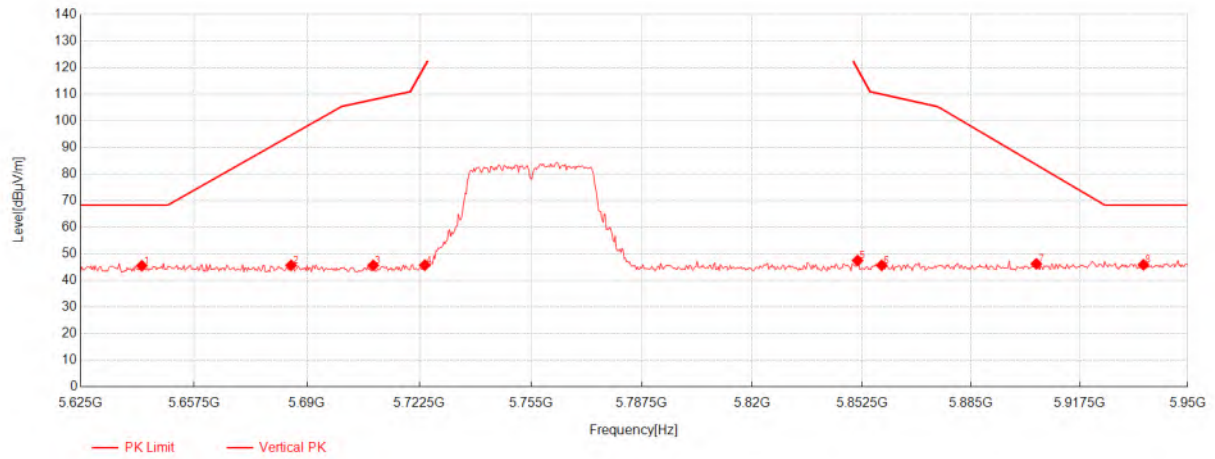
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5636.375	36.13	32.39	-22.68	45.84	68.30	22.46	Vertical
2	5673.75	36.03	32.50	-22.97	45.56	85.92	40.36	Vertical
3	5713.075	35.72	32.50	-23.21	45.01	108.96	63.95	Vertical
4	5722.5	35.89	32.50	-23.24	45.15	116.60	71.45	Vertical
5	5852.175	35.92	32.79	-23.16	45.55	117.34	71.79	Vertical
6	5867.125	36.21	32.70	-23.07	45.84	107.50	61.66	Vertical
7	5896.7	37.80	32.52	-22.90	47.42	89.20	41.78	Vertical
8	5938.3	36.19	32.81	-22.68	46.32	68.30	21.98	Vertical

11ac(VHT40)_TX_CH_151_Horizontal_Peak



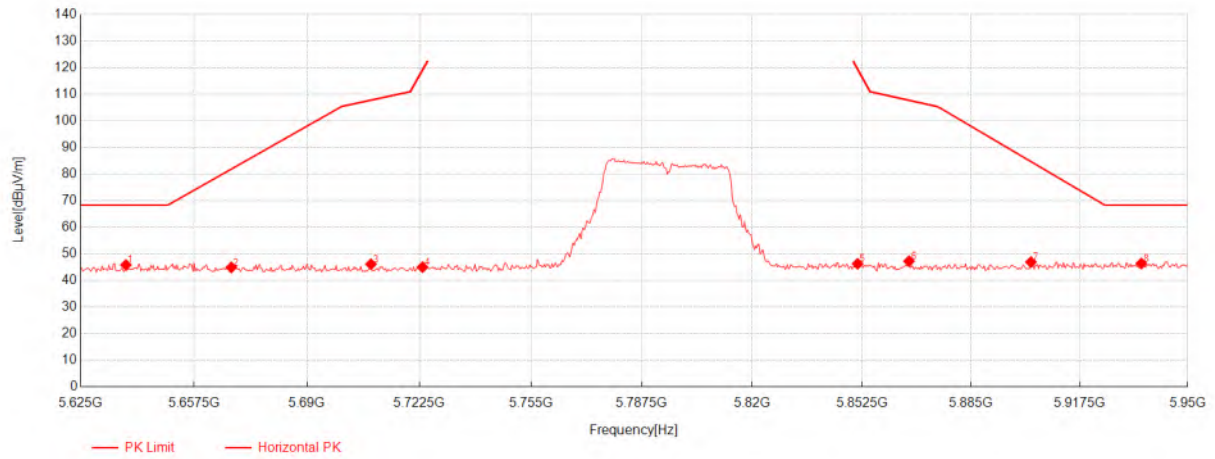
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5635.725	35.81	32.39	-22.68	45.52	68.30	22.78	Horizontal
2	5671.15	35.32	32.50	-22.95	44.87	83.99	39.12	Horizontal
3	5709.175	35.97	32.50	-23.20	45.27	107.87	62.60	Horizontal
4	5724.125	36.64	32.50	-23.24	45.90	120.31	74.41	Horizontal
5	5851.85	36.27	32.79	-23.16	45.90	118.08	72.18	Horizontal
6	5861.6	36.18	32.73	-23.11	45.80	109.05	63.25	Horizontal
7	5890.2	36.77	32.56	-22.94	46.39	94.02	47.63	Horizontal
8	5936.675	36.04	32.79	-22.69	46.14	68.30	22.16	Horizontal

11ac(VHT40)_TX_CH_151_Vertical_Peak



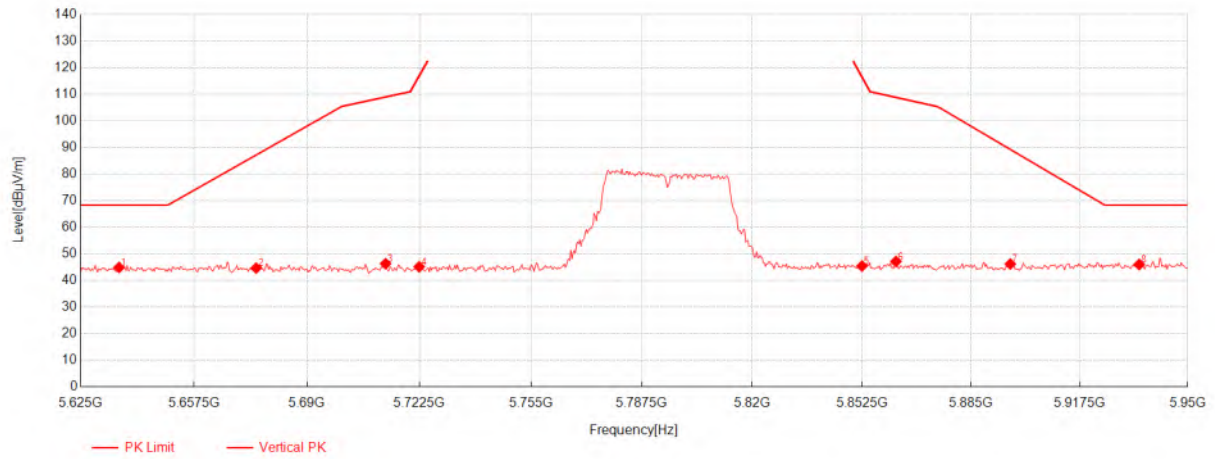
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5642.55	35.80	32.44	-22.73	45.51	68.30	22.79	Vertical
2	5685.45	36.25	32.50	-23.06	45.69	94.57	48.88	Vertical
3	5709.175	36.36	32.50	-23.20	45.66	107.87	62.21	Vertical
4	5724.125	36.47	32.50	-23.24	45.73	120.31	74.58	Vertical
5	5851.2	37.85	32.79	-23.17	47.47	119.56	72.09	Vertical
6	5858.35	36.03	32.75	-23.13	45.65	109.96	64.31	Vertical
7	5904.5	36.54	32.54	-22.86	46.22	83.43	37.21	Vertical
8	5936.675	35.76	32.79	-22.69	45.86	68.30	22.44	Vertical

11ac(VHT40)_TX_CH_159_Horizontal_Peak



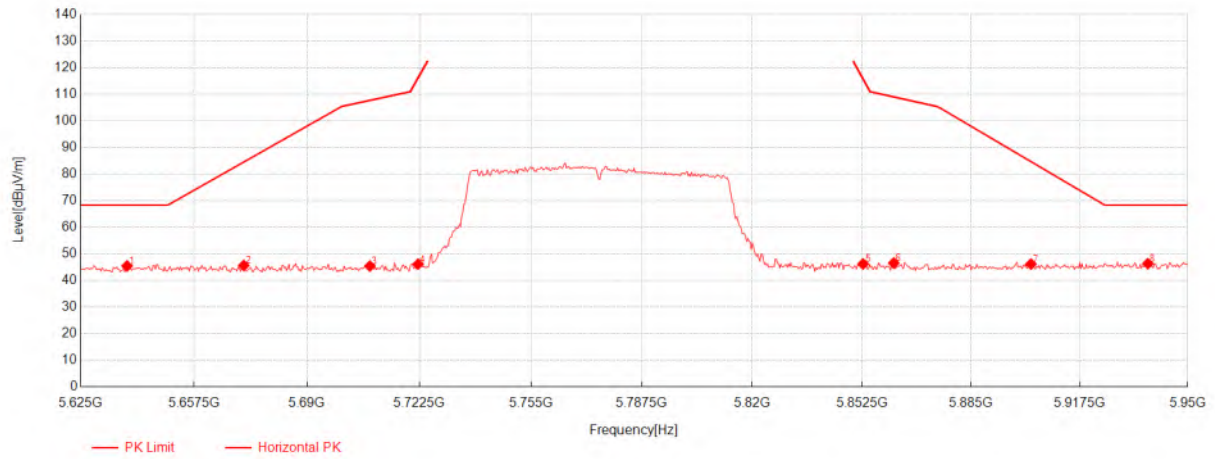
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5638	36.13	32.40	-22.69	45.84	68.30	22.46	Horizontal
2	5668.225	35.31	32.50	-22.93	44.88	81.82	36.94	Horizontal
3	5708.525	36.78	32.50	-23.20	46.08	107.69	61.61	Horizontal
4	5723.475	35.72	32.50	-23.24	44.98	118.82	73.84	Horizontal
5	5851.2	36.60	32.79	-23.17	46.22	119.56	73.34	Horizontal
6	5866.475	37.60	32.70	-23.08	47.22	107.68	60.46	Horizontal
7	5902.875	37.24	32.52	-22.87	46.89	84.63	37.74	Horizontal
8	5936.025	36.25	32.79	-22.70	46.34	68.30	21.96	Horizontal

11ac(VHT40)_TX_CH_159_Vertical_Peak



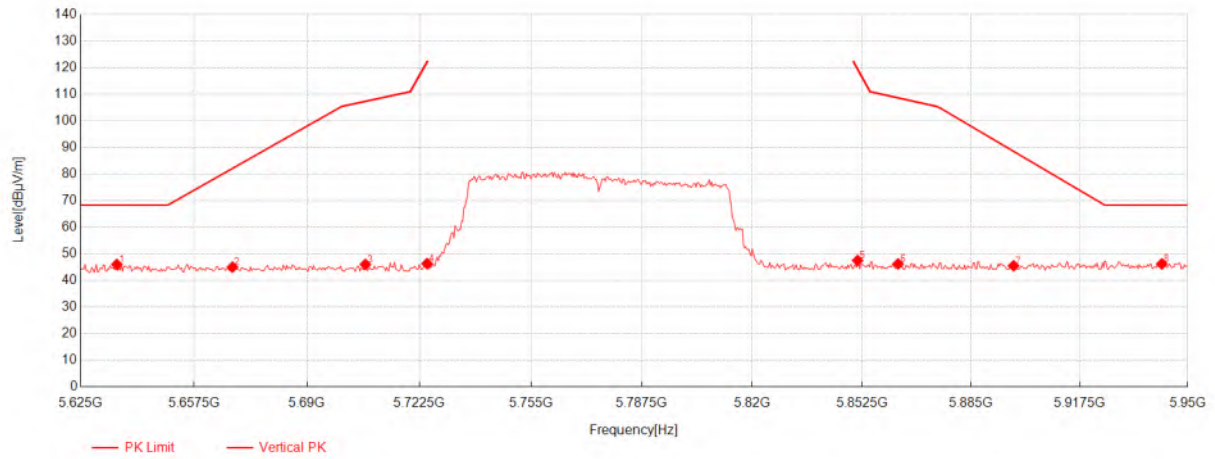
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5636.05	35.18	32.39	-22.68	44.89	68.30	23.41	Vertical
2	5675.375	35.10	32.50	-22.98	44.62	87.12	42.50	Vertical
3	5712.75	36.99	32.50	-23.21	46.28	108.87	62.59	Vertical
4	5722.5	35.86	32.50	-23.24	45.12	116.60	71.48	Vertical
5	5852.5	35.77	32.79	-23.16	45.40	116.60	71.20	Vertical
6	5862.575	37.45	32.72	-23.10	47.07	108.78	61.71	Vertical
7	5896.7	36.54	32.52	-22.90	46.16	89.20	43.04	Vertical
8	5935.375	35.89	32.78	-22.70	45.97	68.30	22.33	Vertical

11ac(VHT80)_TX_CH_155_Horizontal_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5638.325	35.71	32.41	-22.70	45.42	68.30	22.88	Horizontal
2	5671.8	36.06	32.50	-22.95	45.61	84.47	38.86	Horizontal
3	5708.2	36.08	32.50	-23.19	45.39	107.60	62.21	Horizontal
4	5722.175	36.84	32.50	-23.24	46.10	115.86	69.76	Horizontal
5	5852.825	36.55	32.78	-23.16	46.17	115.86	69.69	Horizontal
6	5861.925	36.91	32.73	-23.10	46.54	108.96	62.42	Horizontal
7	5902.875	36.49	32.52	-22.87	46.14	84.63	38.49	Horizontal
8	5937.975	36.16	32.80	-22.69	46.27	68.30	22.03	Horizontal

11ac(VHT80)_TX_CH_155_Vertical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5635.4	36.29	32.38	-22.67	46.00	68.30	22.30	Vertical
2	5668.55	35.42	32.50	-22.93	44.99	82.07	37.08	Vertical
3	5706.9	36.69	32.50	-23.19	46.00	107.23	61.23	Vertical
4	5724.775	37.02	32.50	-23.24	46.28	121.79	75.51	Vertical
5	5851.2	37.88	32.79	-23.17	47.50	119.56	72.06	Vertical
6	5863.225	36.56	32.72	-23.10	46.18	108.59	62.41	Vertical
7	5897.675	35.89	32.51	-22.89	45.51	88.48	42.97	Vertical
8	5942.2	36.00	32.84	-22.66	46.18	68.30	22.12	Vertical

7.4 Duty Cycle

Test Requirement ANSI C63.10 (2020) Section 12.2

Test Method: ANSI C63.10 (2020) Section 12.2

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

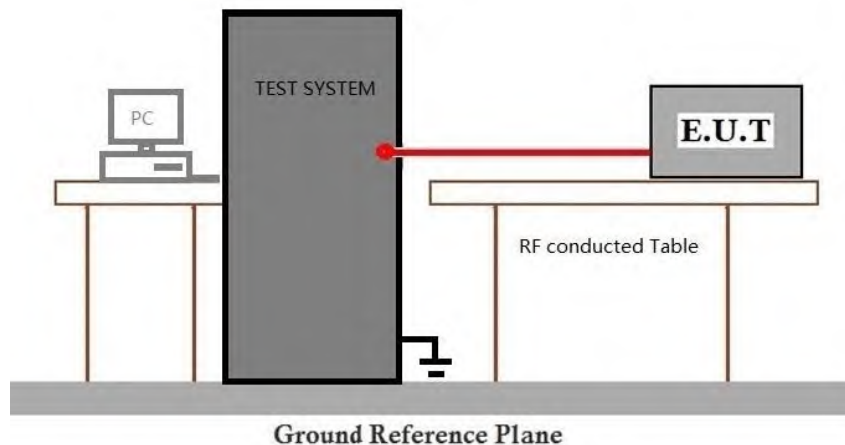
Humidity: 50.2 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, 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 99% Bandwidth

Test Requirement ANSI C63.10 (2020) Section 12.5.3

Test Method: ANSI C63.10 (2020) Section 12.5.3

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

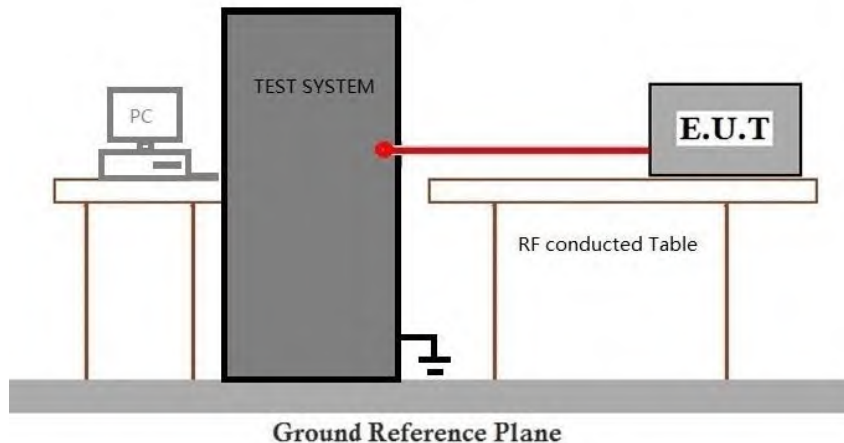
Humidity: 50.2 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Minimum 6 dB Bandwidth (5.725-5.85 GHz band)

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

Test Method: ANSI C63.10 (2020) Section 12.5.1

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

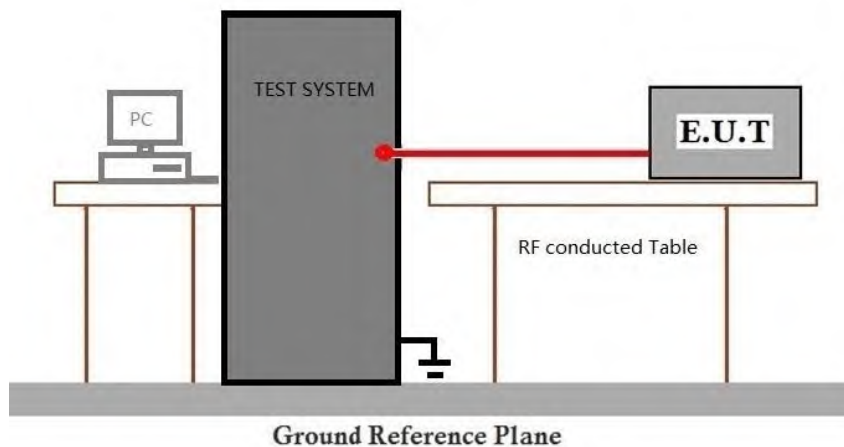
Humidity: 50.2 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, 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 Maximum Conducted Output Power

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

Test Method: ANSI C63.10 (2020) Section 12.4

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

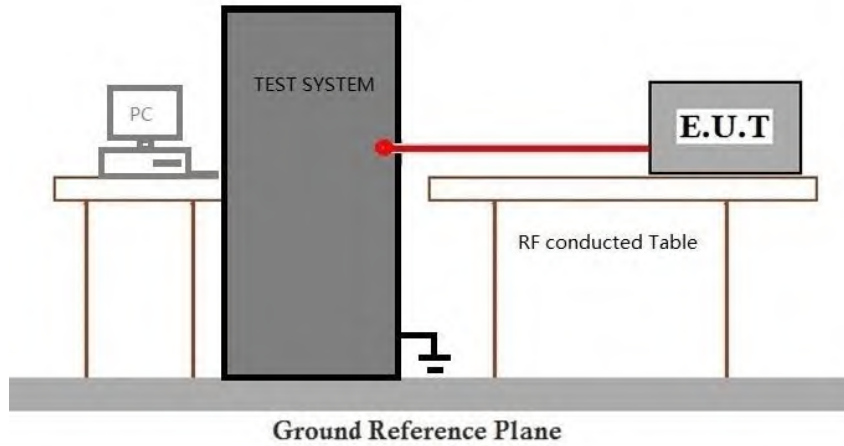
Humidity: 50.2 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details

7.8 Power Spectral Density

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

Test Method: ANSI C63.10 (2020) Section 12.6

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

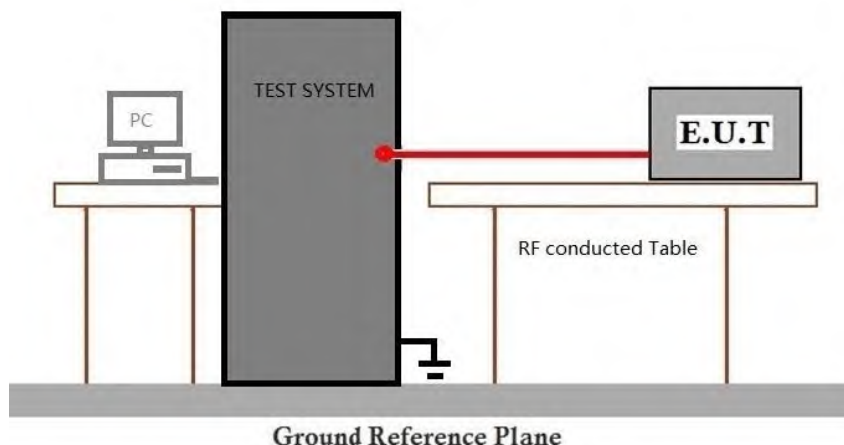
Humidity: 50.2 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram





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7.8.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details

7.9 Frequency Stability

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

Test Method: ANSI C63.10 (2020) Section 6.8

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

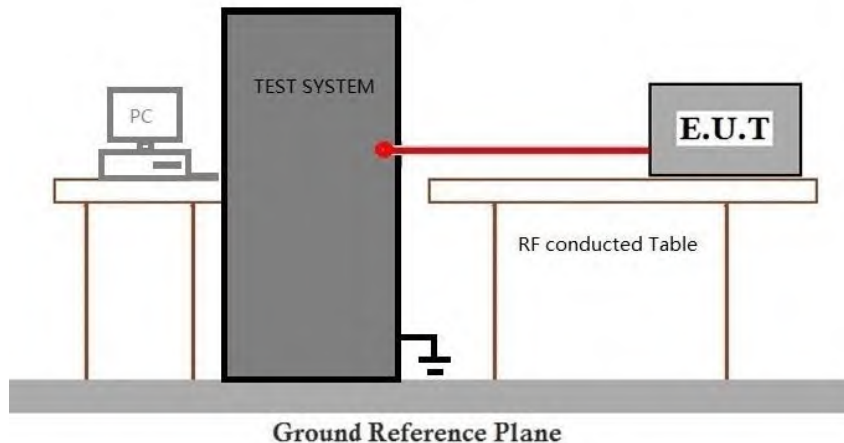
Humidity: 50.2 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2602000287MO

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for KSCR2602000287MO

10 Appendix

1. Duty Cycle

1.1 Test Result

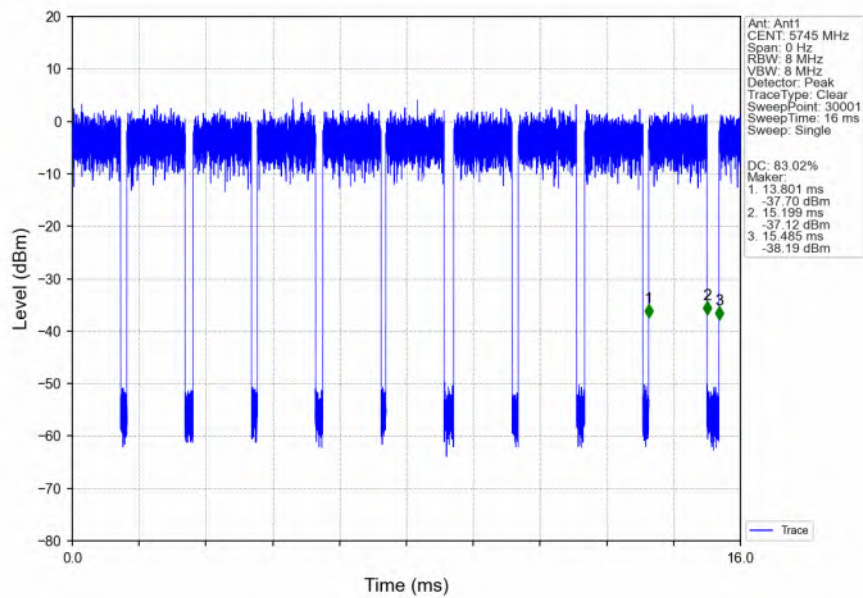
1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	/	/	1.398	1.684	83.02	0.81	9.70
		5785	/	/	1.399	1.688	82.88	0.82	12.38
		5825	/	/	1.398	1.589	87.98	0.56	4.74
802.11ac (VHT20)	SISO	5745	/	/	5.098	5.427	93.94	0.27	2.93
		5785	/	/	5.112	6.284	81.35	0.90	17.61
		5825	/	/	5.097	5.315	95.90	0.18	1.99
802.11ac (VHT40)	SISO	5755	/	/	4.907	5.719	85.80	0.67	11.49
		5795	/	/	4.919	6.084	80.85	0.92	17.32
802.11ac (VHT80)	SISO	5775	/	/	4.538	5.143	88.24	0.54	10.14
802.11ax (HEW20)	SISO	5745	SU	/	3.885	4.153	93.55	0.29	4.92
		5785	SU	/	3.888	4.027	96.55	0.15	1.94
		5825	SU	/	3.876	4.095	94.65	0.24	2.56
802.11ax (HEW40)	SISO	5755	SU	/	3.893	4.434	87.80	0.57	9.76
		5795	SU	/	3.885	4.155	93.50	0.29	4.39
802.11ax (HEW80)	SISO	5775	SU	/	3.698	3.956	93.48	0.29	4.66

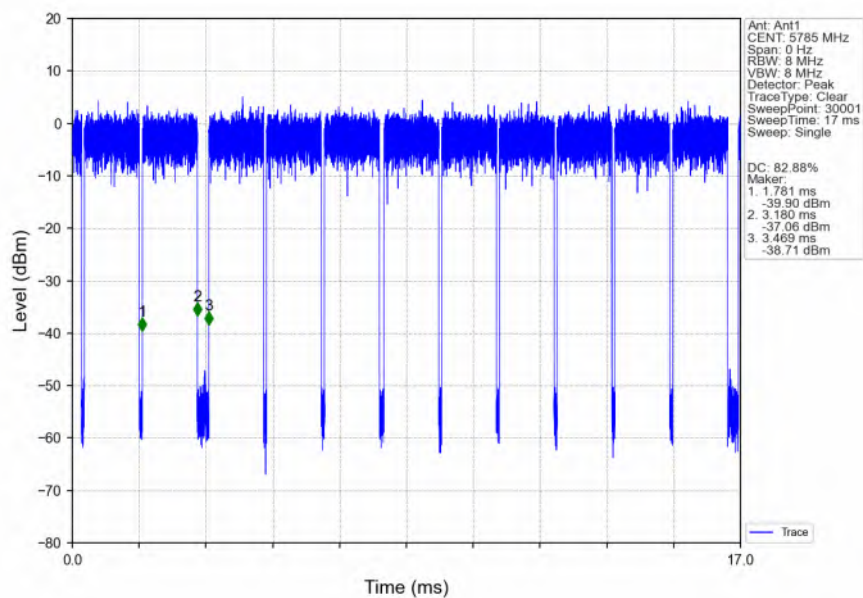
1.2 Test Graph

1.2.1 Ant1

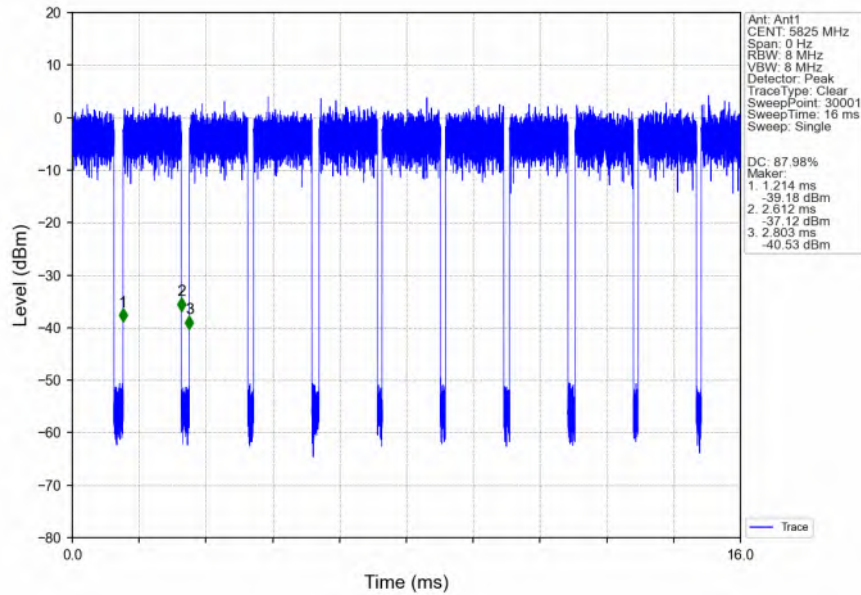
802.11a_LCH_5745MHz_Ant1_NTNV



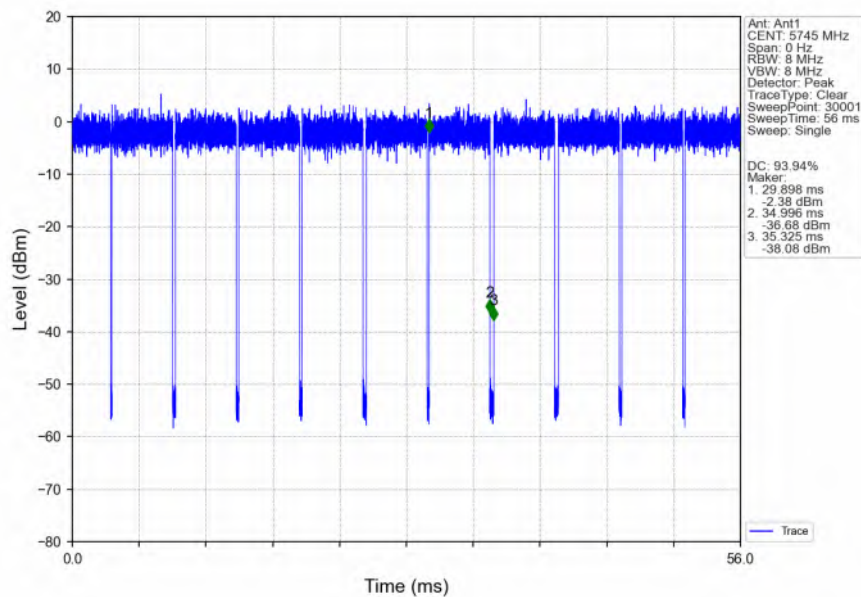
802.11a_MCH_5785MHz_Ant1_NTNV



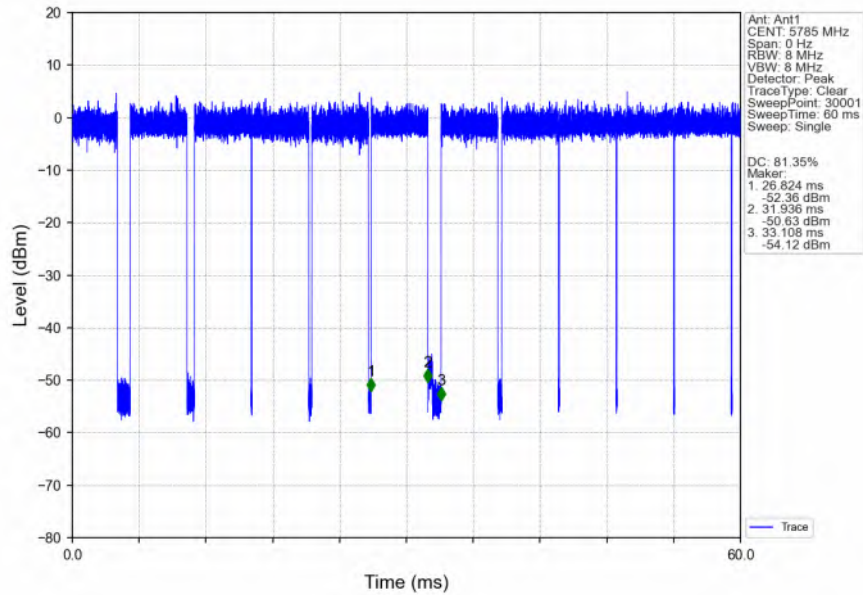
802.11a_HCH_5825MHz_Ant1_NTNV



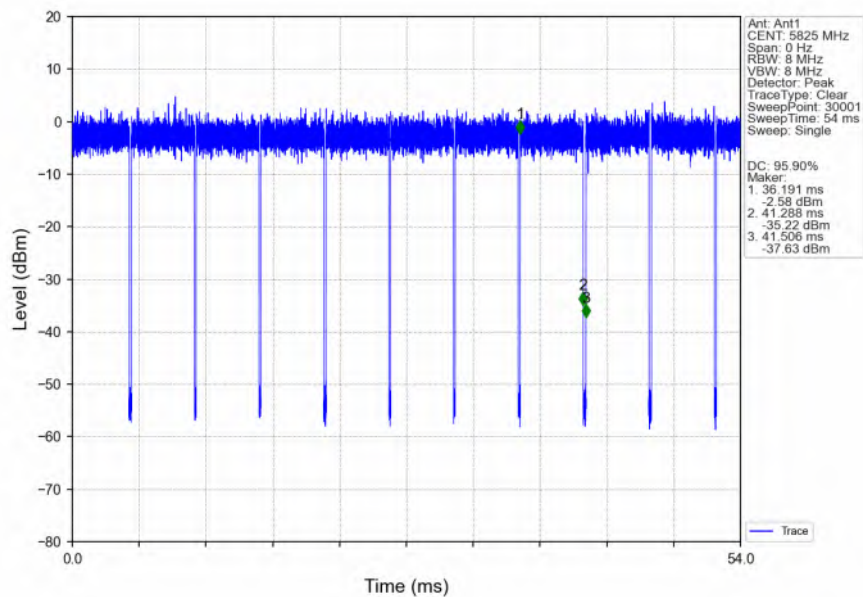
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



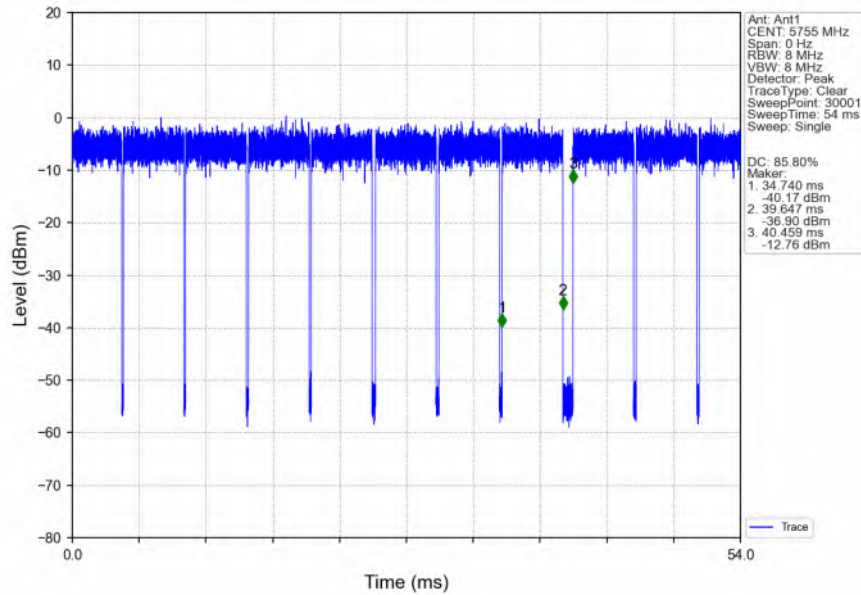
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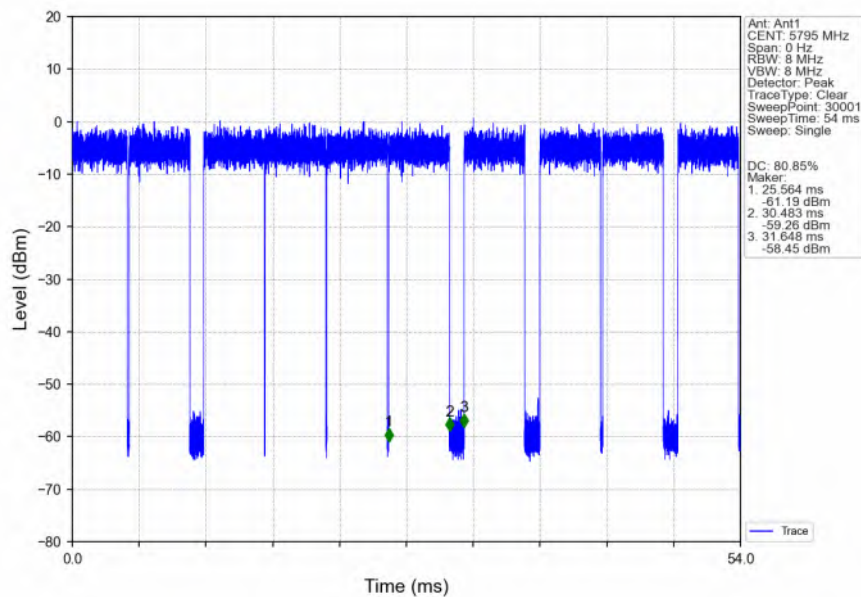
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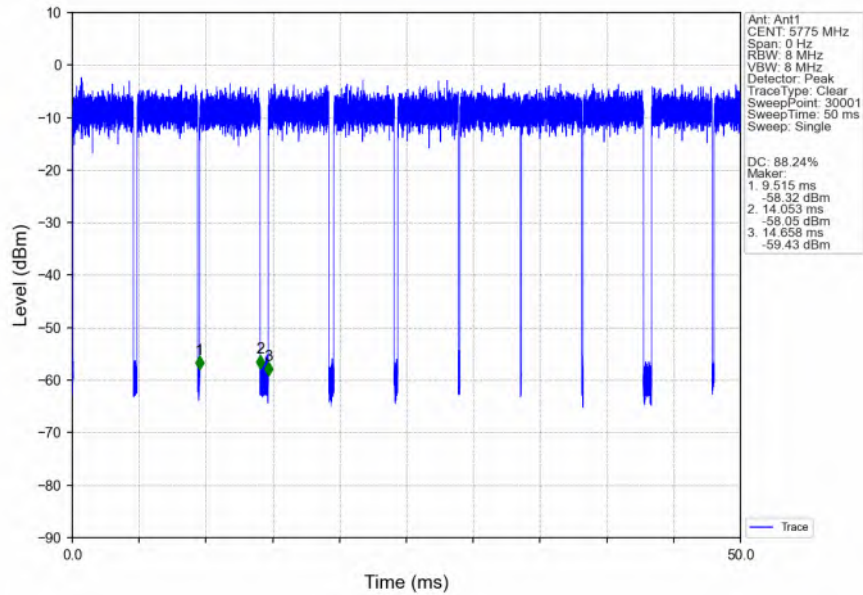
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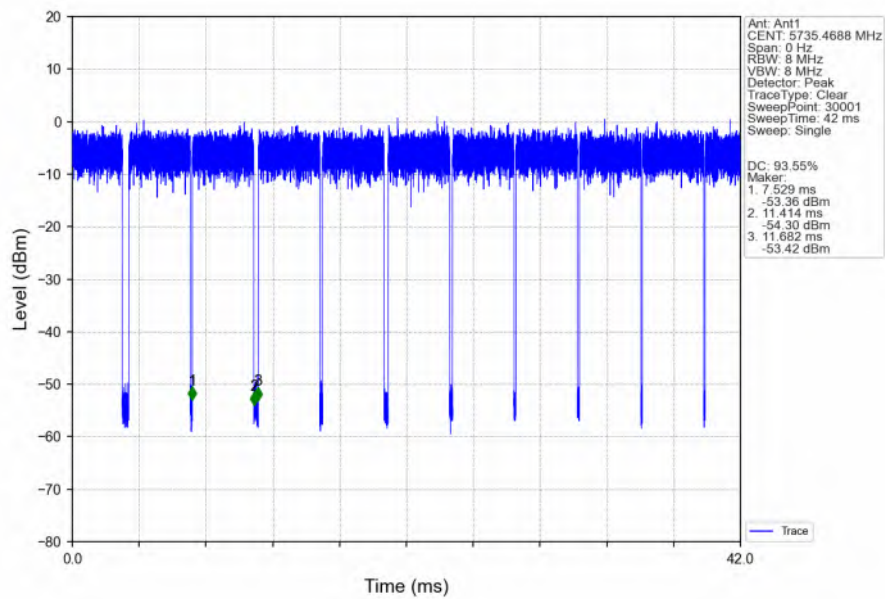
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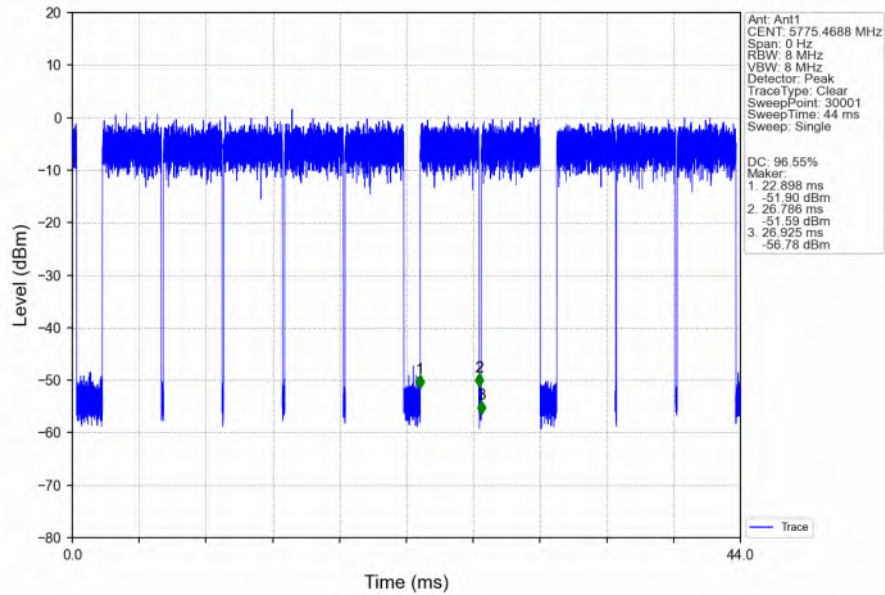
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



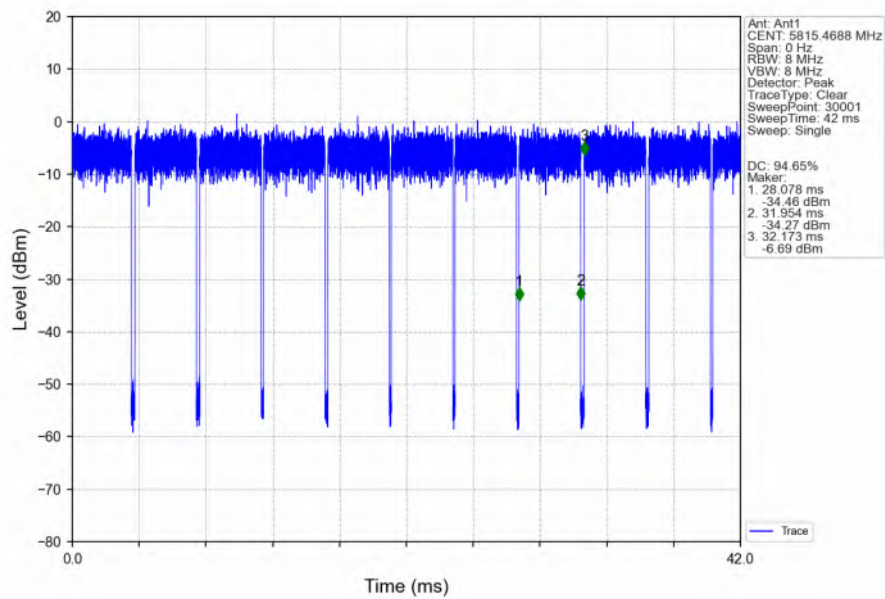
802.11ax(HEW20)_LCH_5745MHz_SU_ / _Ant1_NTNV



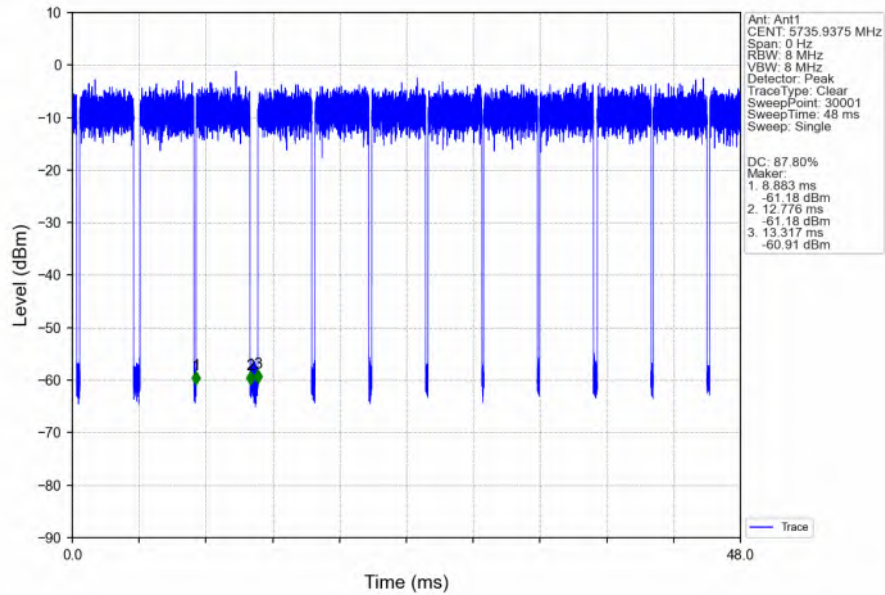
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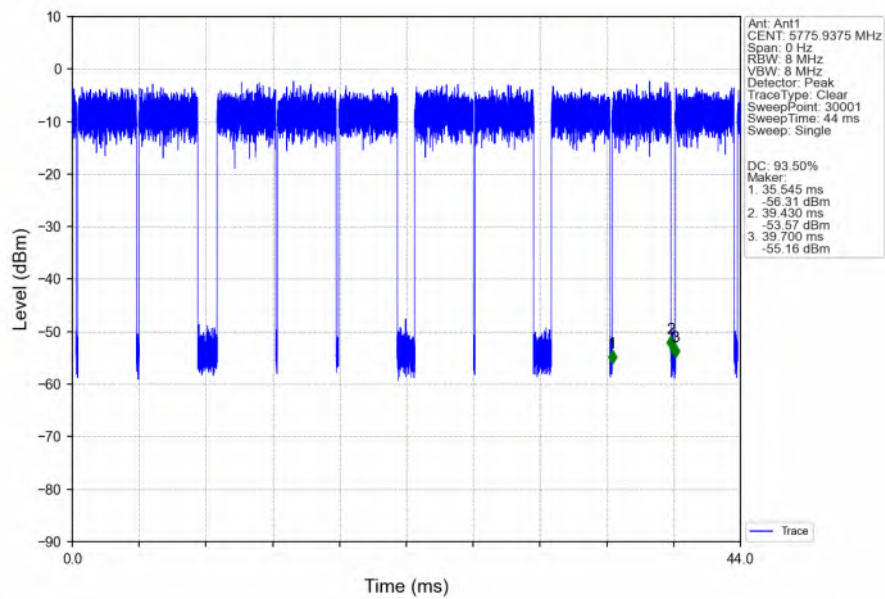
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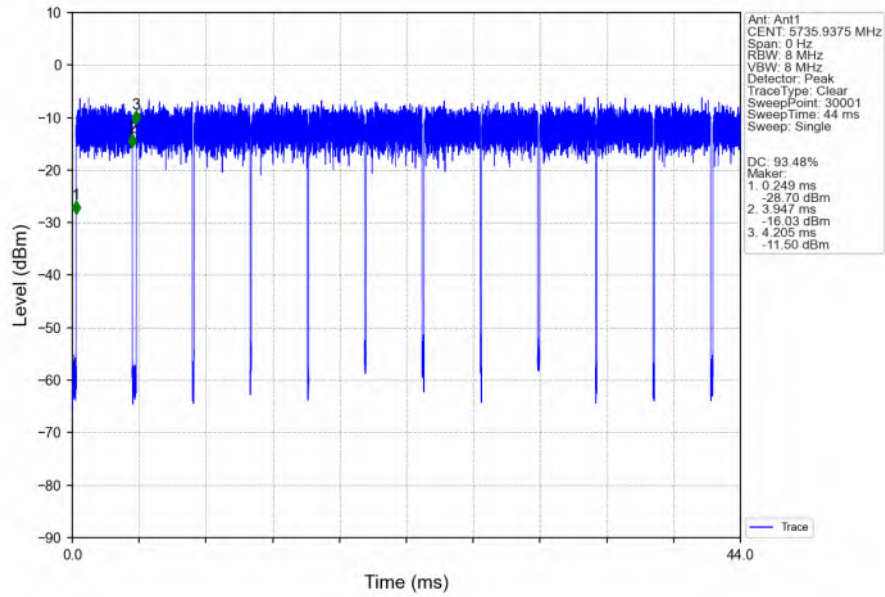
802.11ax(HEW40)_LCH_5755MHz_SU_ / _Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_ / _Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_SU_/_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	16.831	/	Pass
		5785	/	/	1	16.806	/	Pass
		5825	/	/	1	16.843	/	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	17.975	/	Pass
		5785	/	/	1	18.027	/	Pass
		5825	/	/	1	18.021	/	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	37.368	/	Pass
		5795	/	/	1	37.405	/	Pass
802.11ac (VHT80)	SISO	5775	/	/	1	76.136	/	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	19.191	/	Pass
		5785	SU	/	1	19.176	/	Pass
		5825	SU	/	1	19.232	/	Pass
802.11ax (HEW40)	SISO	5755	SU	/	1	38.630	/	Pass
		5795	SU	/	1	38.541	/	Pass
802.11ax (HEW80)	SISO	5775	SU	/	1	77.718	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	16.429	≥ 0.5	Pass
		5785	/	/	1	16.414	≥ 0.5	Pass
		5825	/	/	1	16.408	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	17.661	≥ 0.5	Pass
		5785	/	/	1	17.621	≥ 0.5	Pass
		5825	/	/	1	17.717	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	36.401	≥ 0.5	Pass
		5795	/	/	1	36.420	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	/	/	1	76.386	≥ 0.5	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	19.093	≥ 0.5	Pass
		5785	SU	/	1	18.972	≥ 0.5	Pass
		5825	SU	/	1	19.016	≥ 0.5	Pass



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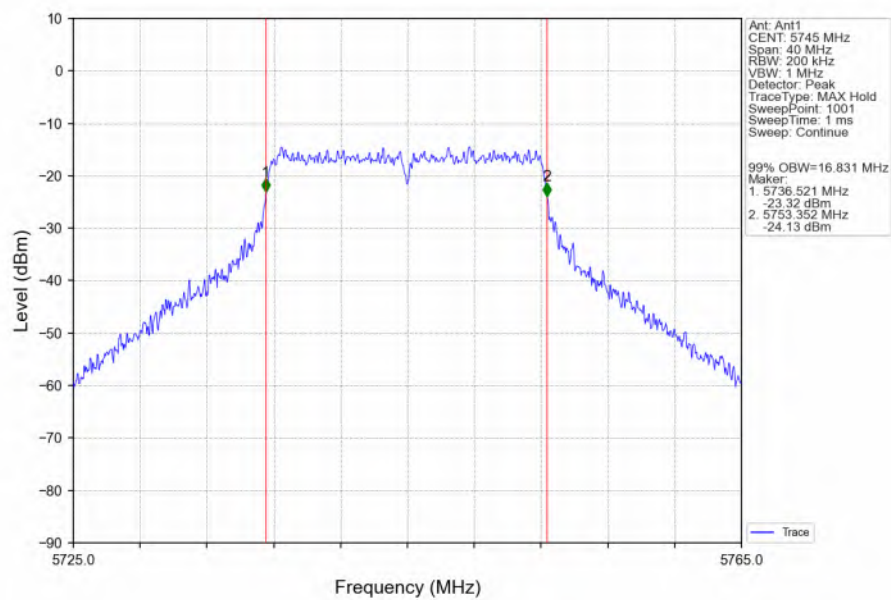
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802.11ax (HEW40)	SISO	5755	SU	/	1	38.076	≥ 0.5	Pass
		5795	SU	/	1	38.027	≥ 0.5	Pass
802.11ax (HEW80)	SISO	5775	SU	/	1	77.895	≥ 0.5	Pass

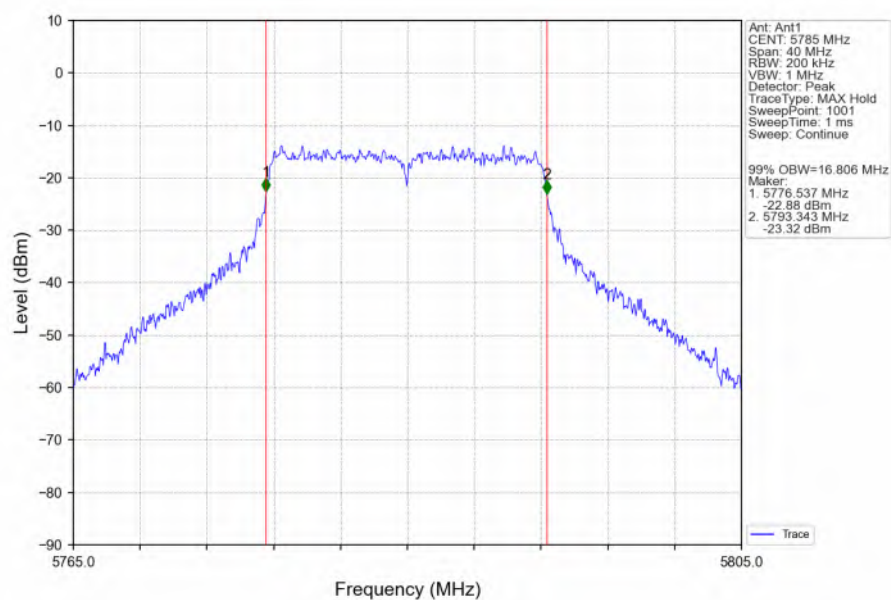
2.2 Test Graph

2.2.1 OBW

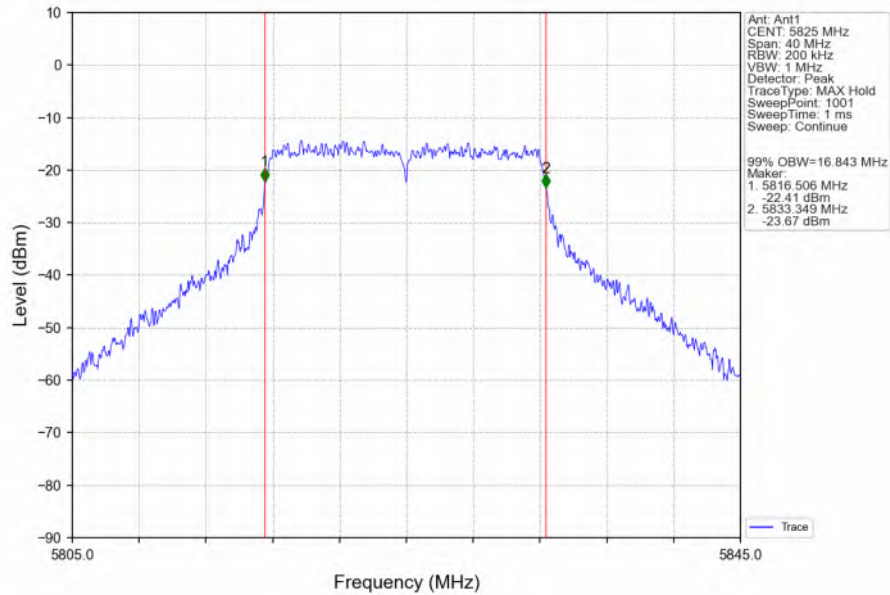
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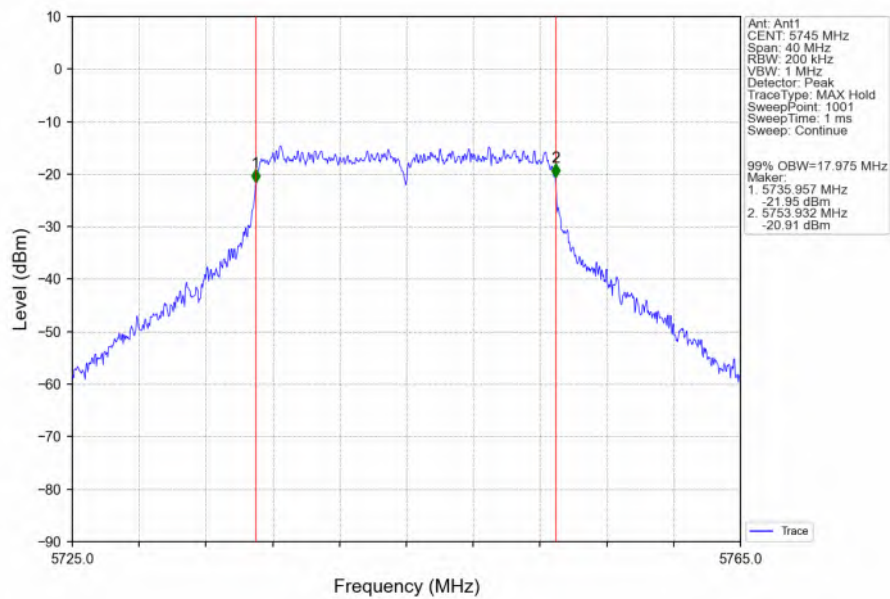
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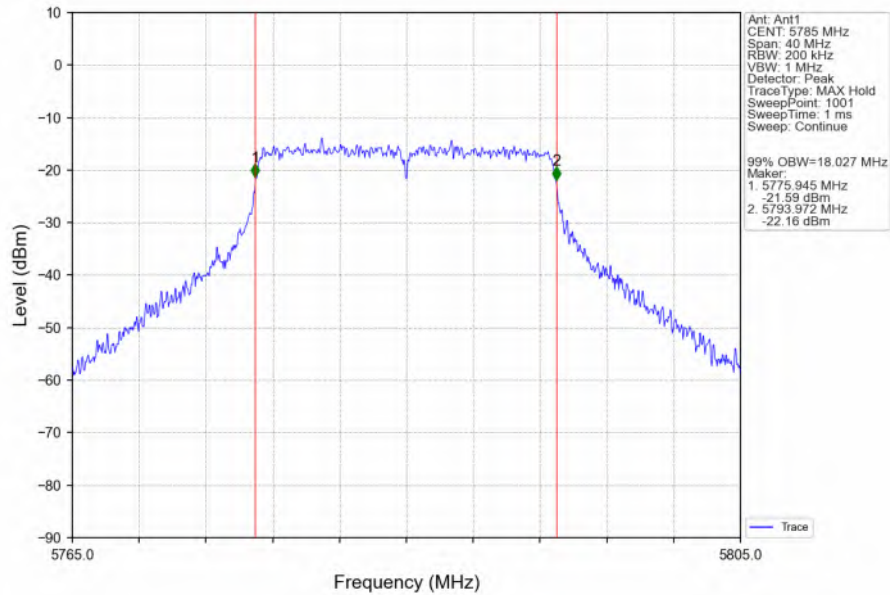
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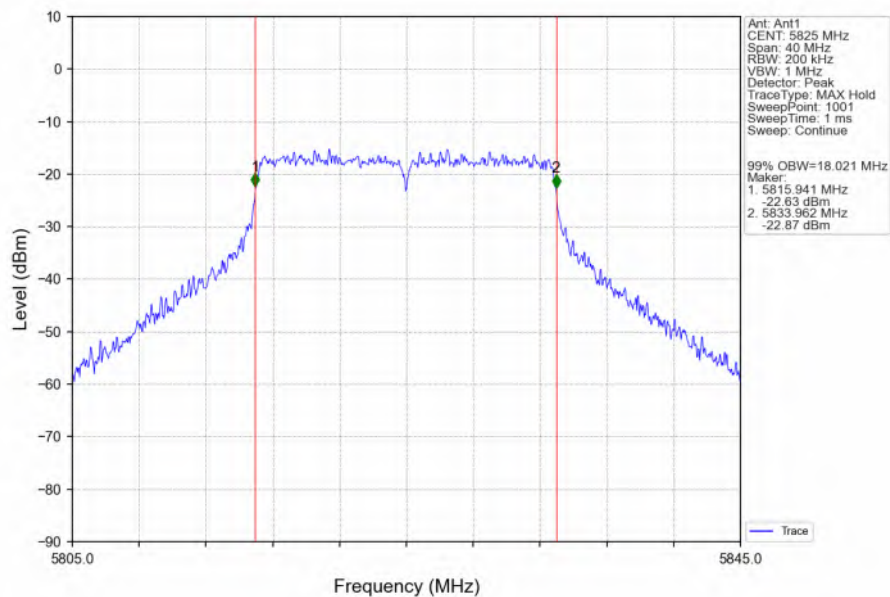
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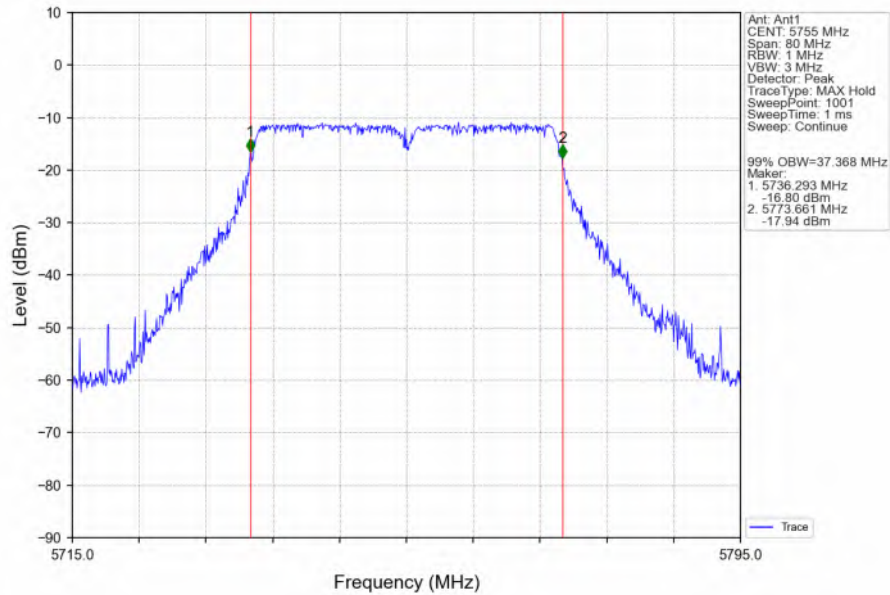
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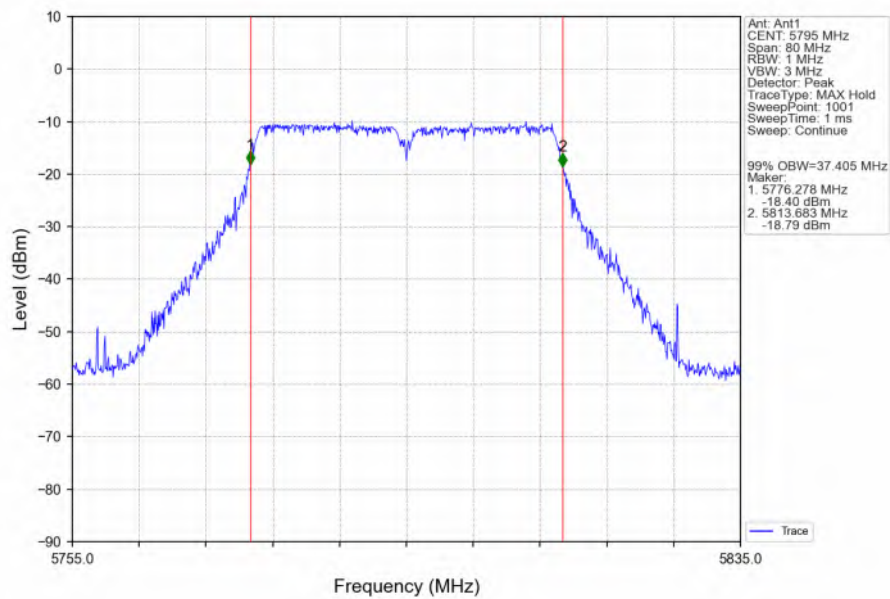
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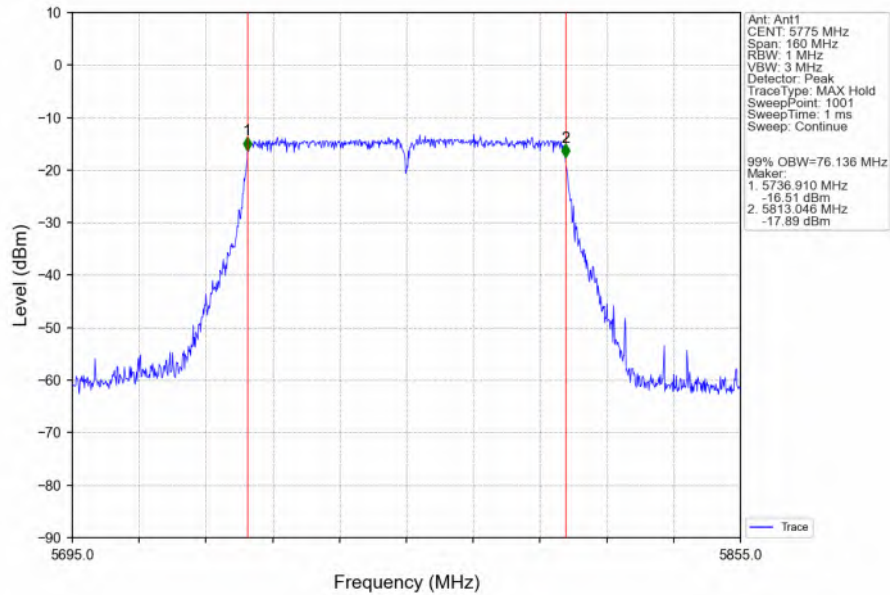
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



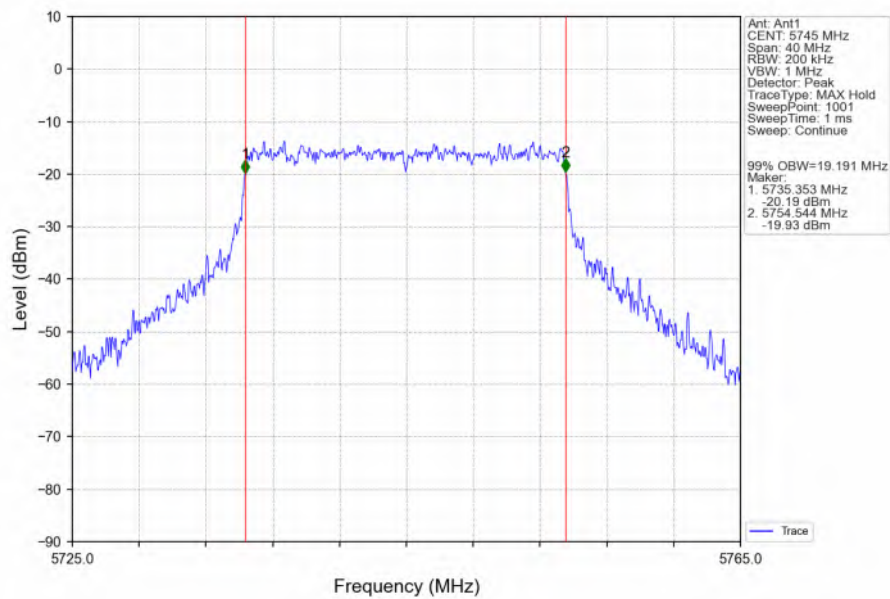
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



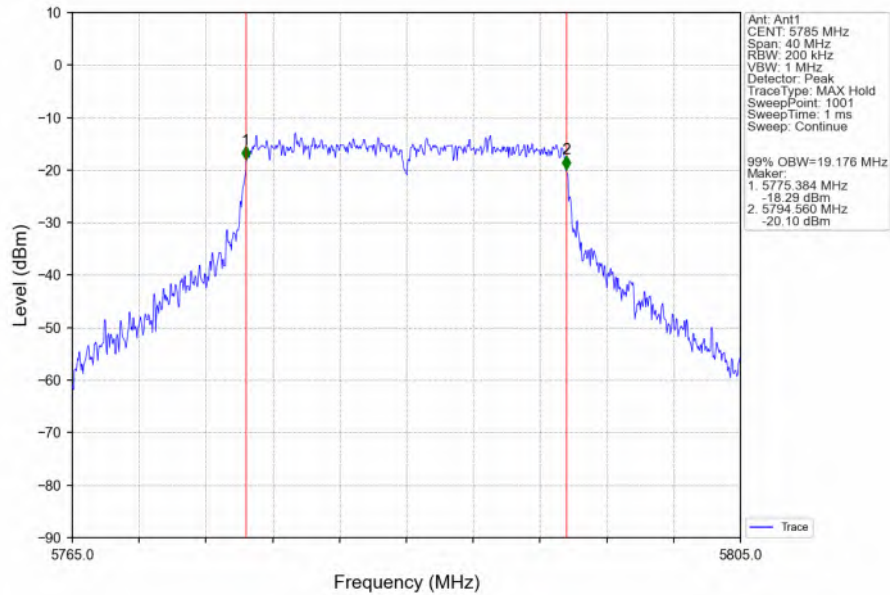
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



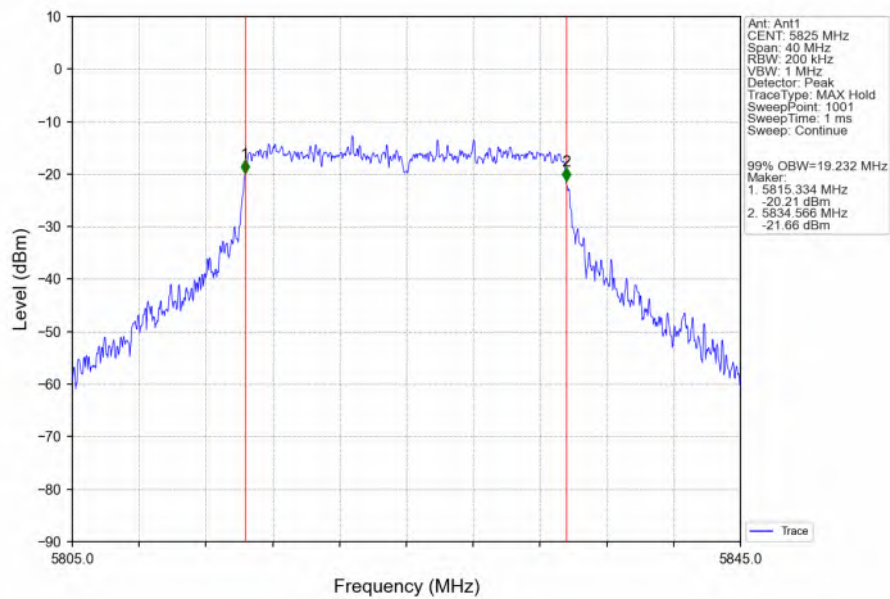
802.11ax(HEW20)_LCH_5745MHz_SU_ / _Ant1_NTNV



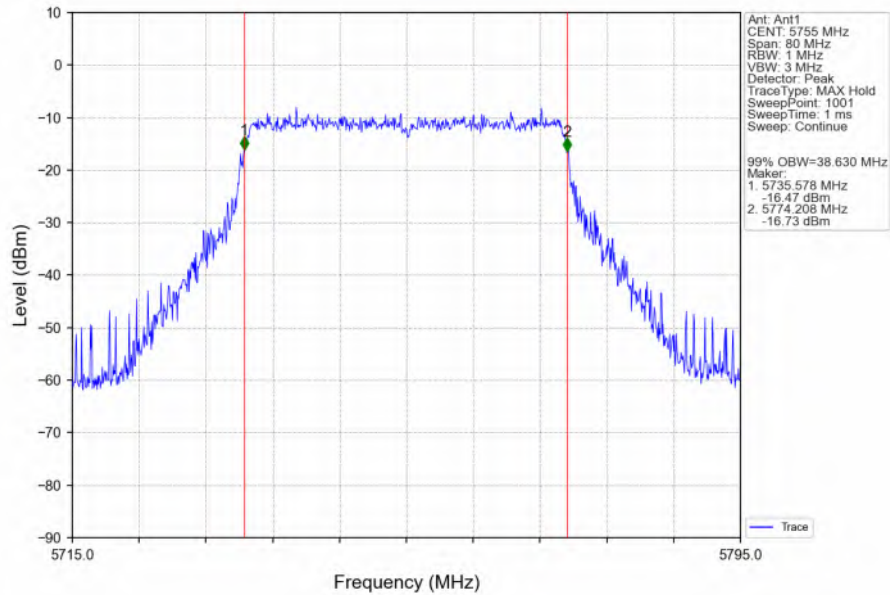
802.11ax(HEW20)_MCH_5785MHz_SU_ / _Ant1_NTNV



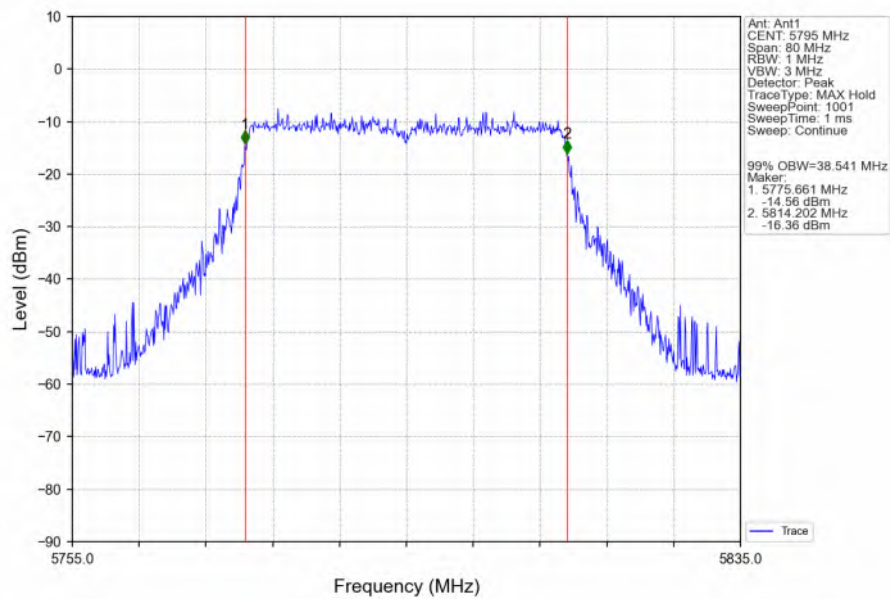
802.11ax(HEW20)_HCH_5825MHz_SU_ / _Ant1_NTNV



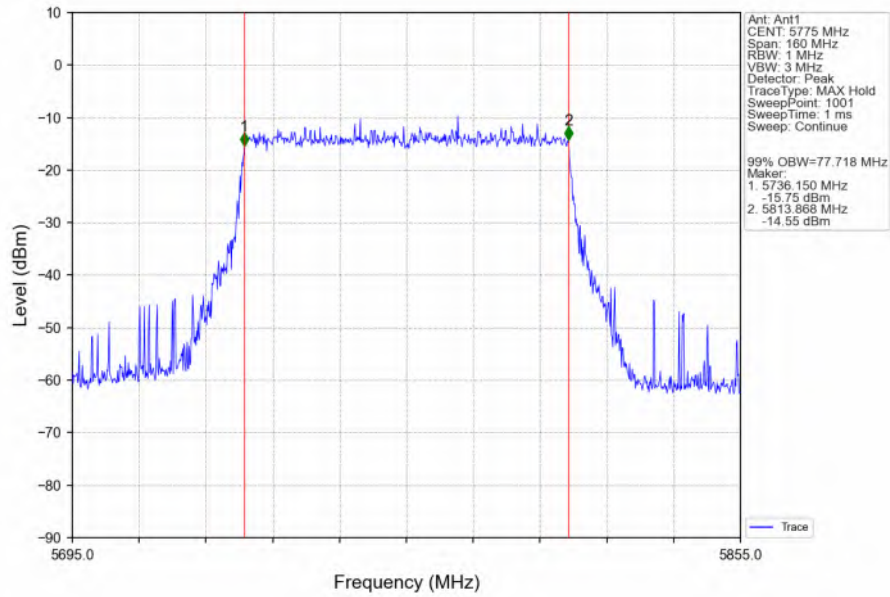
802.11ax(HEW40)_LCH_5755MHz_SU_ / _Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_ / _Ant1_NTNV

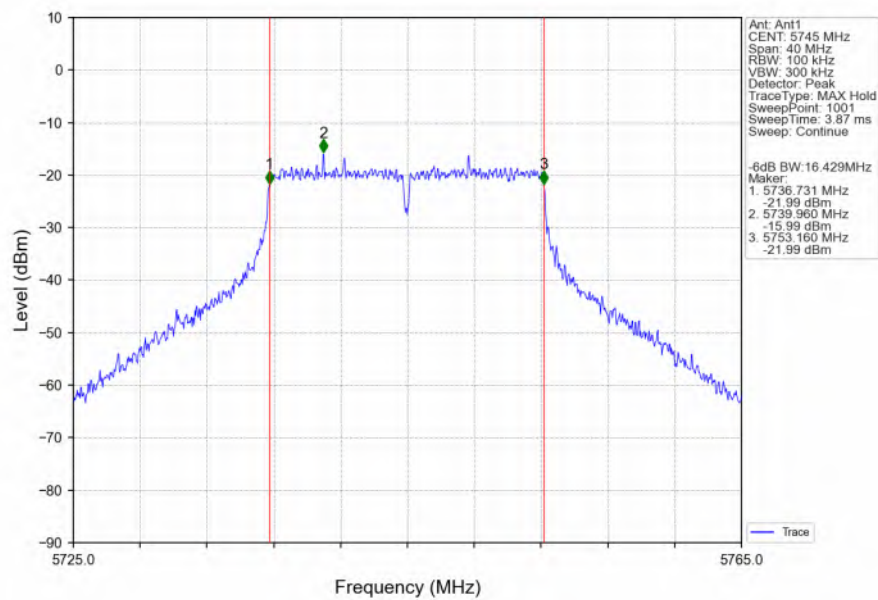


802.11ax(HEW80)_MCH_5775MHz_SU_/_Ant1_NTNV

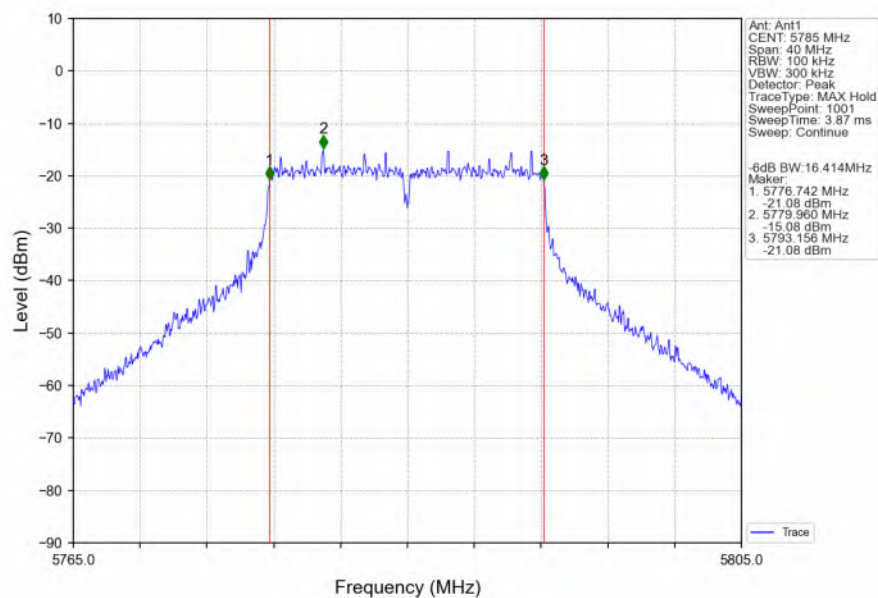


2.2.2 6dB BW

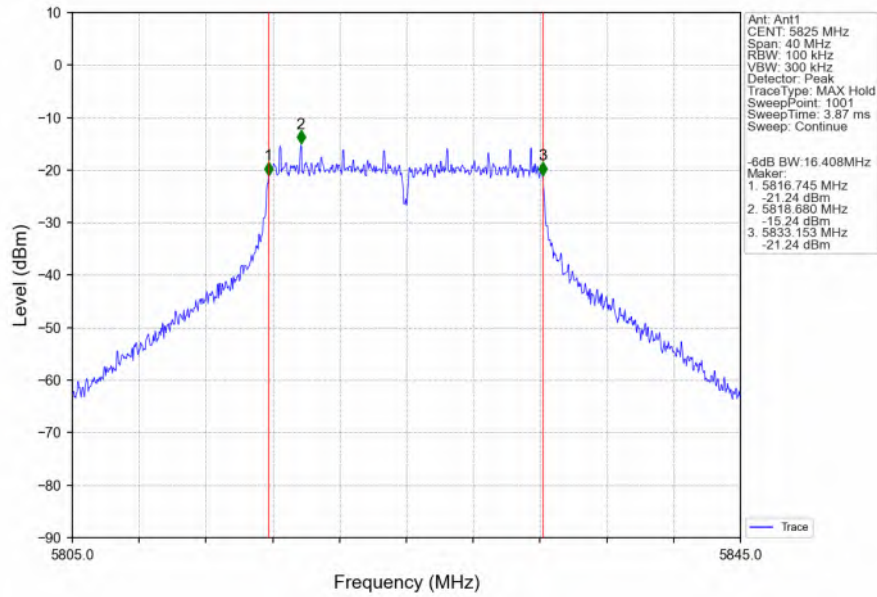
802.11a_LCH_5745MHz_Ant1_NTNV



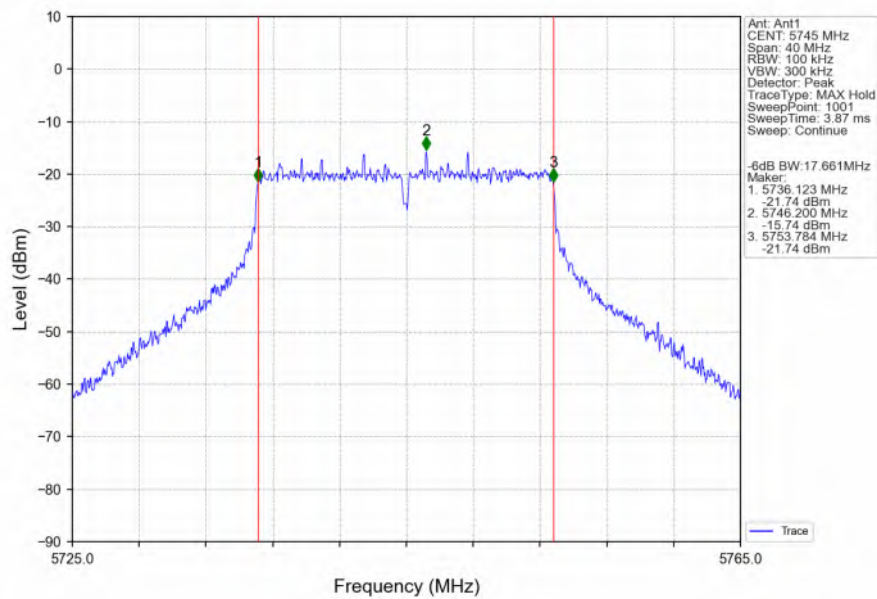
802.11a_MCH_5785MHz_Ant1_NTNV



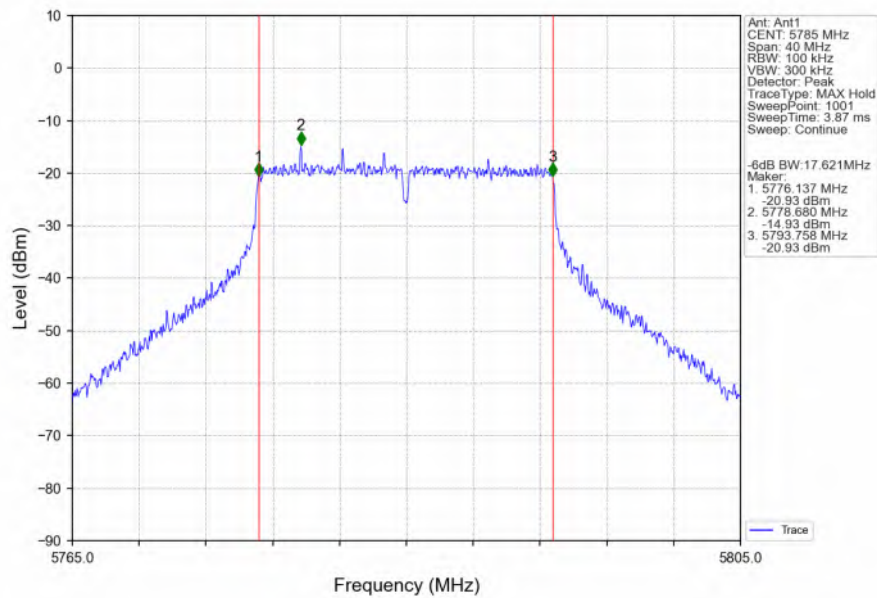
802.11a_HCH_5825MHz_Ant1_NTNV



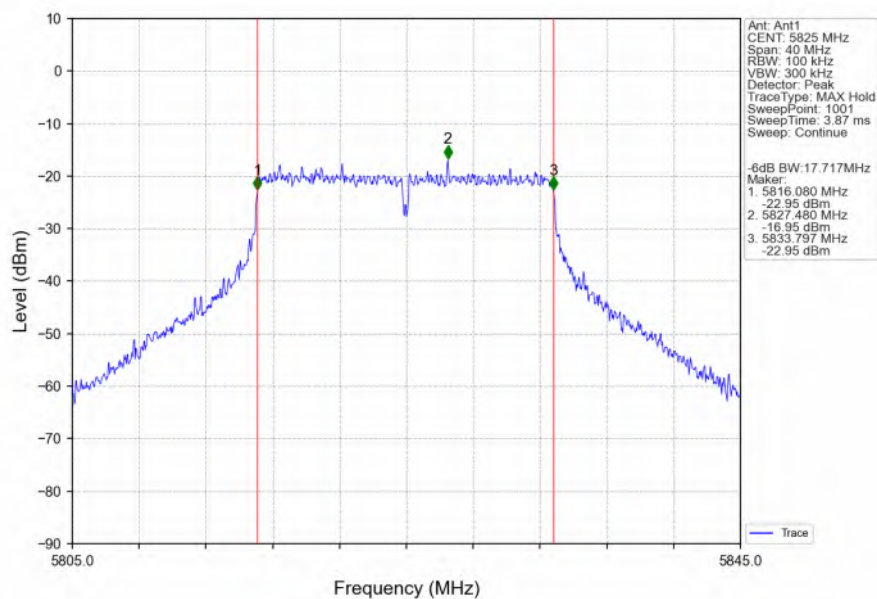
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



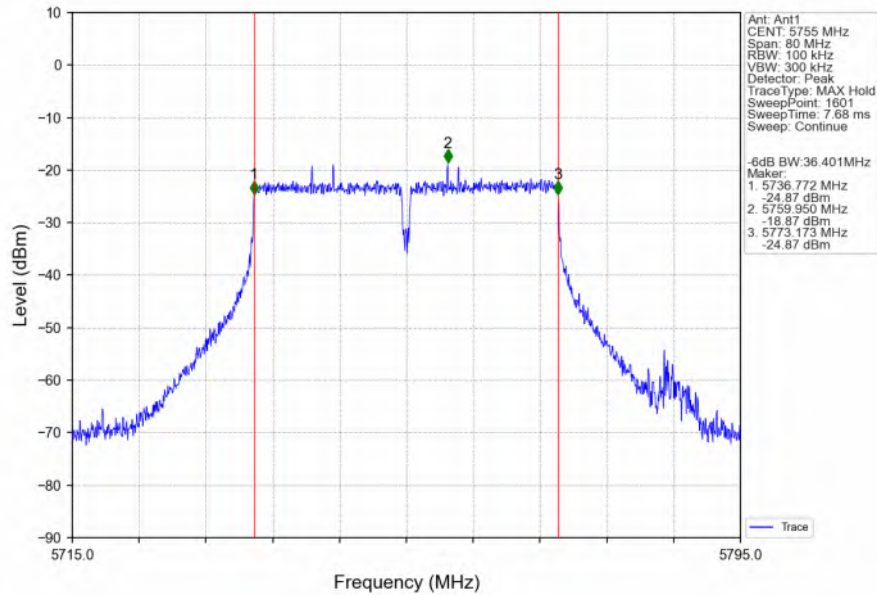
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



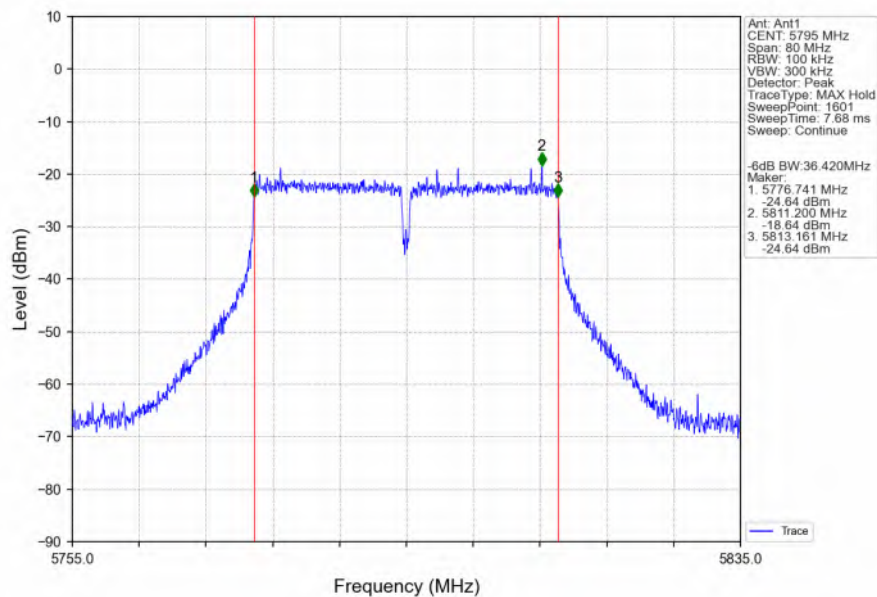
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



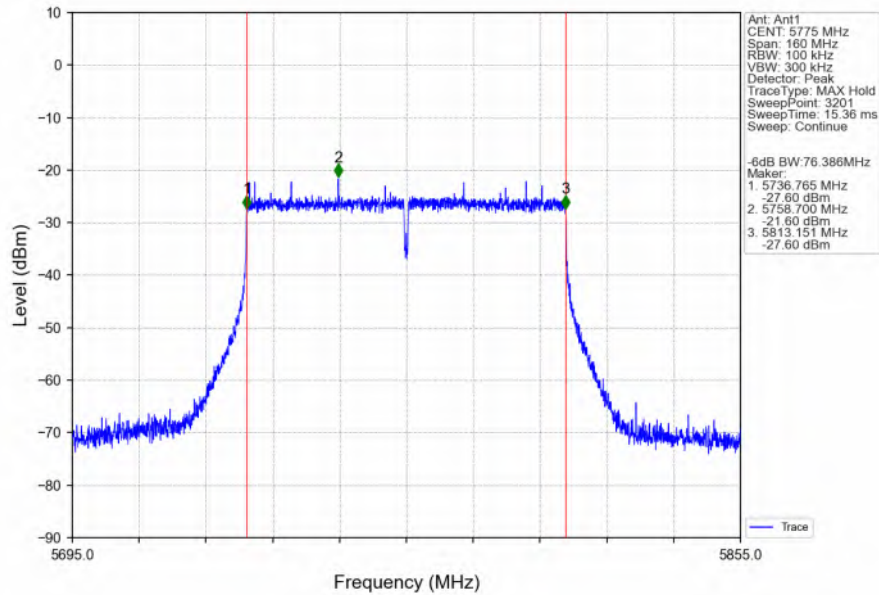
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



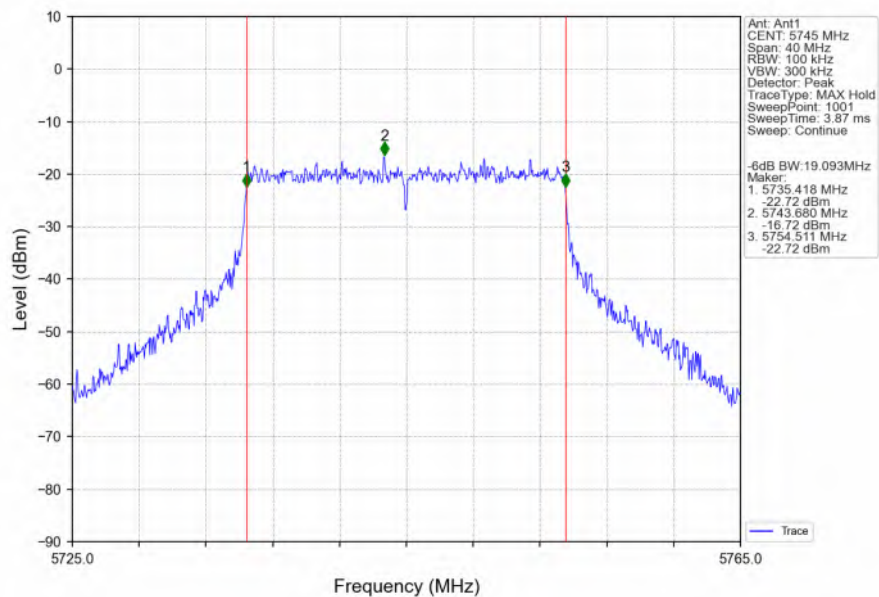
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



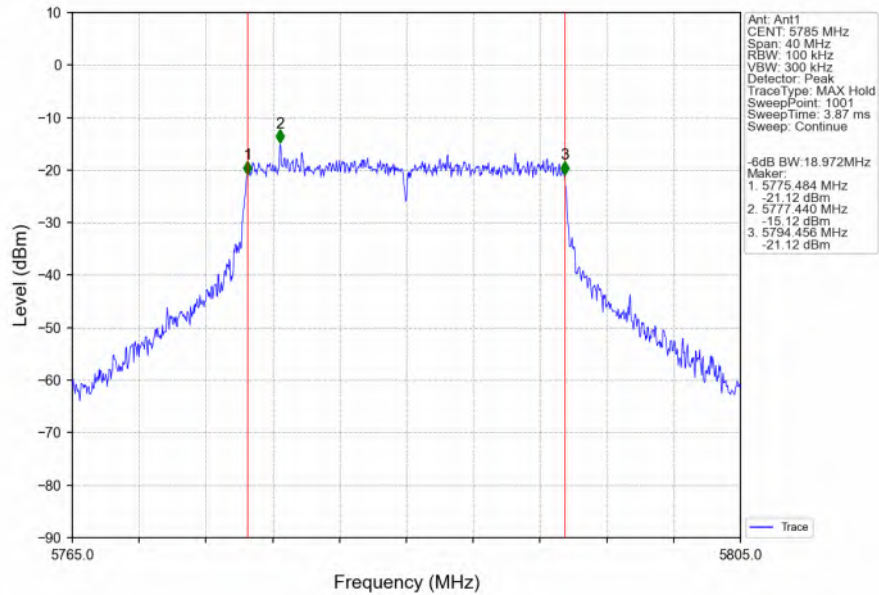
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



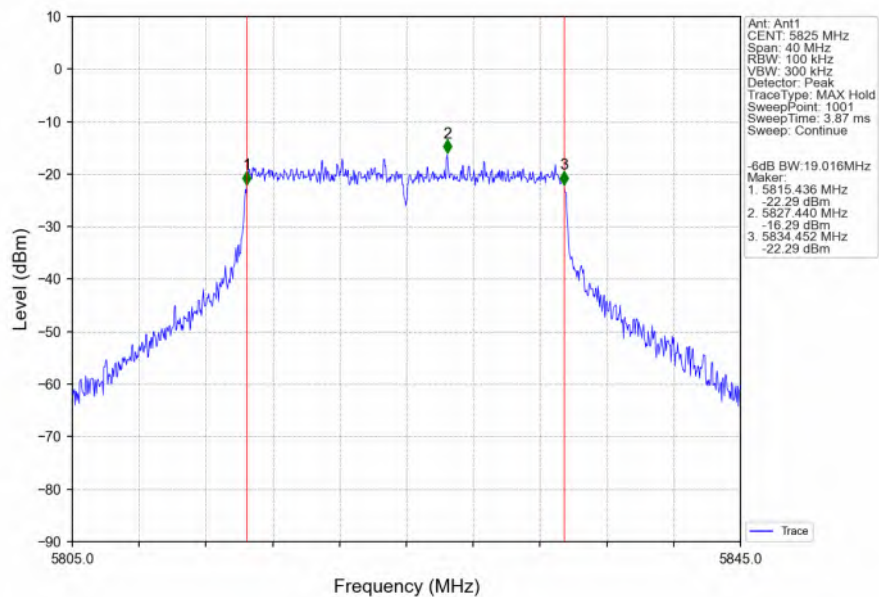
802.11ax(HEW20)_LCH_5745MHz_SU_ / _Ant1_NTNV



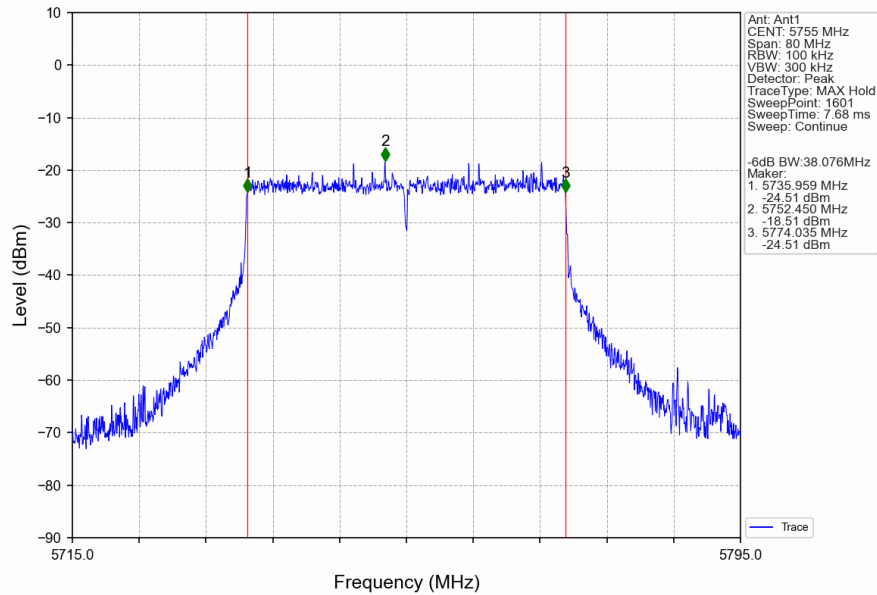
802.11ax(HEW20)_MCH_5785MHz_SU_ / _Ant1_NTNV



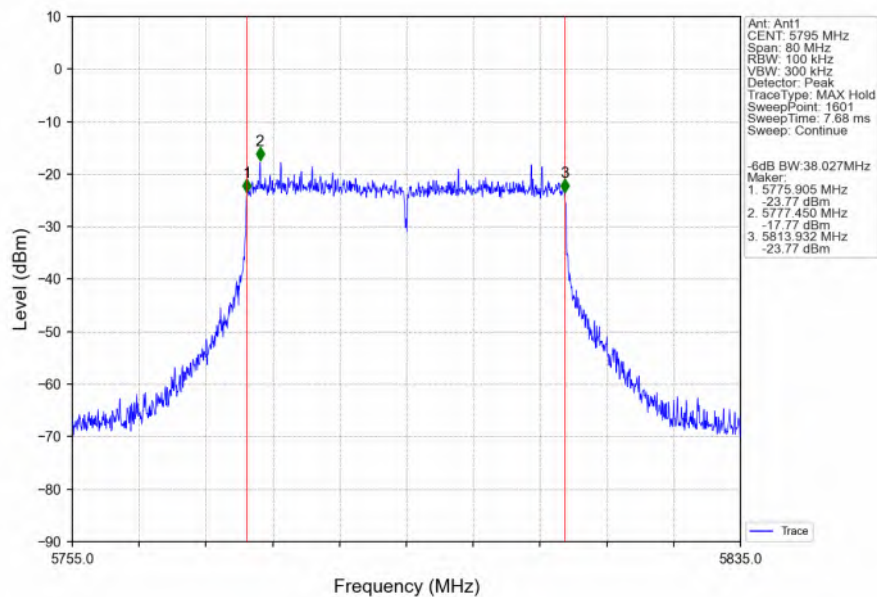
802.11ax(HEW20)_HCH_5825MHz_SU_ / _Ant1_NTNV



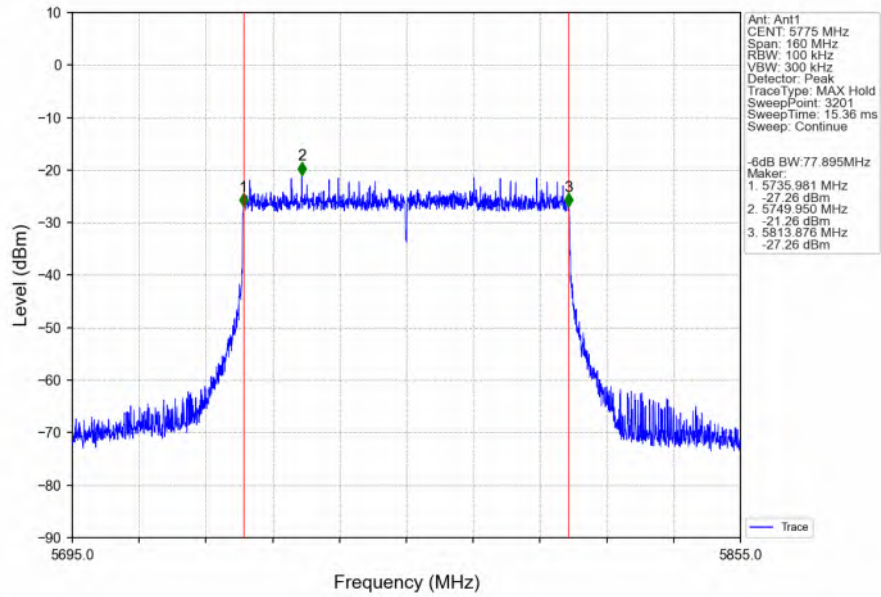
802.11ax(HEW40)_LCH_5755MHz_SU_ / _Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_ / _Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_SU_/_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

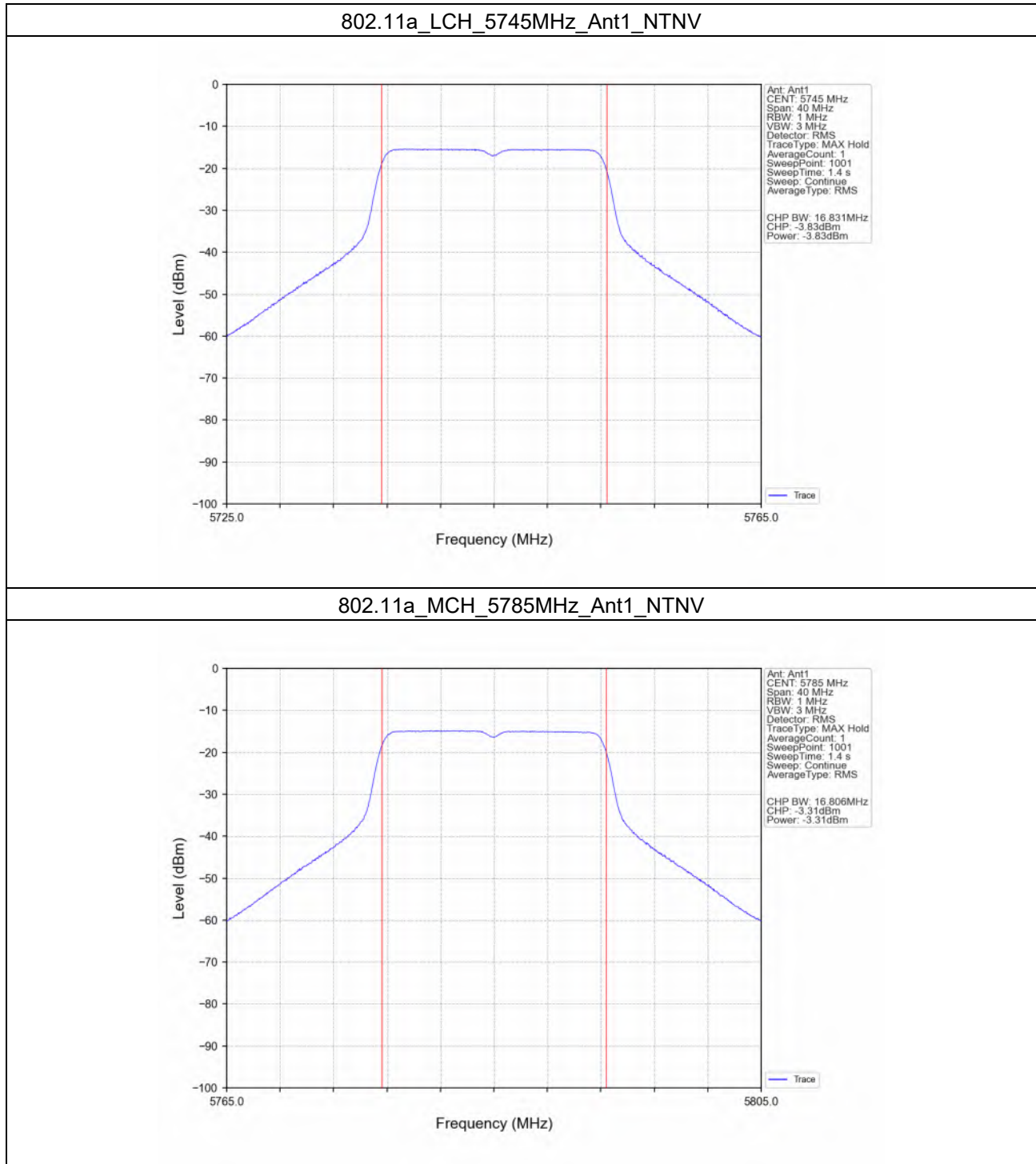
3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11a	SISO	5745	/	/	-3.83	<=30	Pass
		5785	/	/	-3.31	<=30	Pass
		5825	/	/	-3.97	<=30	Pass
802.11ac (VHT20)	SISO	5745	/	/	-4.03	<=30	Pass
		5785	/	/	-3.36	<=30	Pass
		5825	/	/	-4.58	<=30	Pass
802.11ac (VHT40)	SISO	5755	/	/	-4.16	<=30	Pass
		5795	/	/	-3.43	<=30	Pass
802.11ac (VHT80)	SISO	5775	/	/	-3.94	<=30	Pass
802.11ax (HEW20)	SISO	5745	SU	/	-3.86	<=30	Pass
		5785	SU	/	-3.80	<=30	Pass
		5825	SU	/	-4.11	<=30	Pass
802.11ax (HEW40)	SISO	5755	SU	/	-3.79	<=30	Pass
		5795	SU	/	-3.51	<=30	Pass
802.11ax (HEW80)	SISO	5775	SU	/	-3.67	<=30	Pass

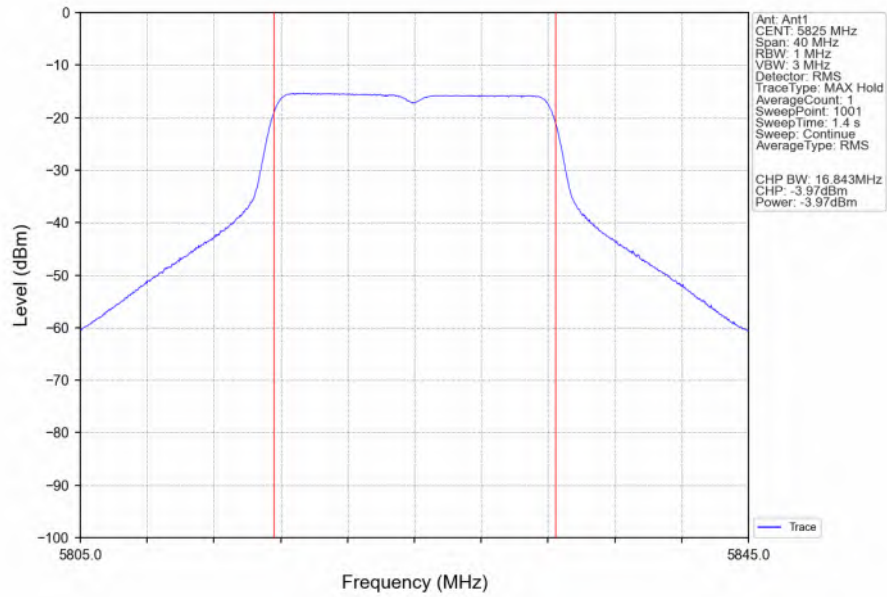
Note1: Antenna Gain: Ant1: 2.10dBi;

3.2 Test Graph

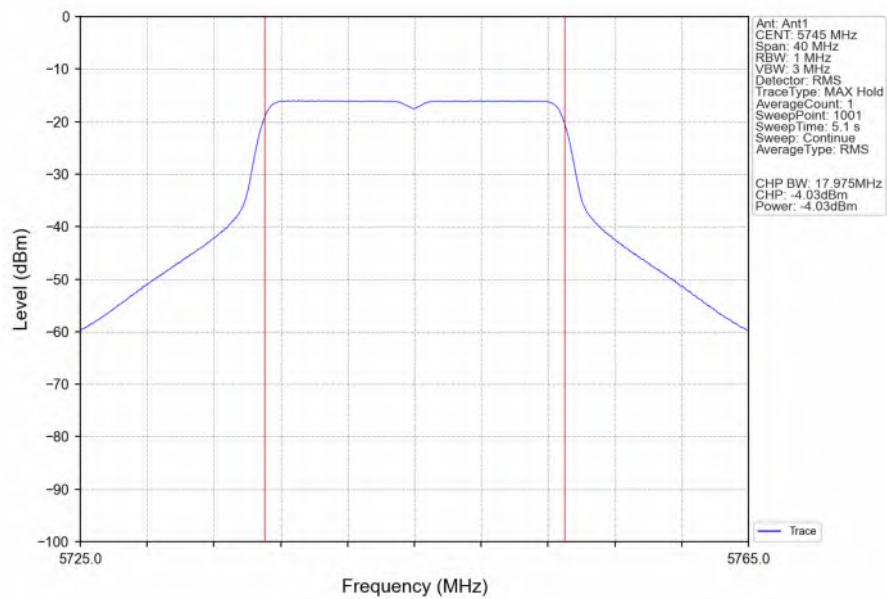
3.2.1 Power



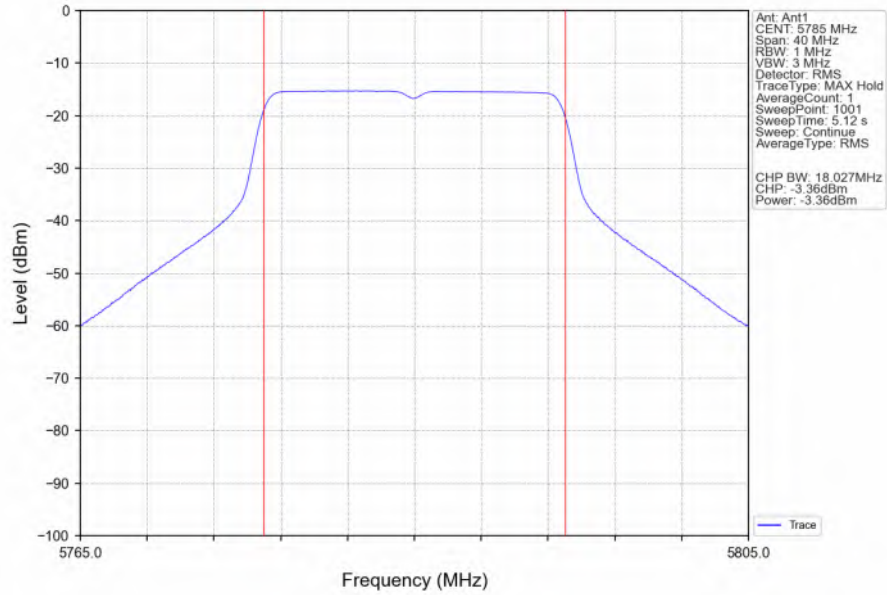
802.11a_HCH_5825MHz_Ant1_NTNV



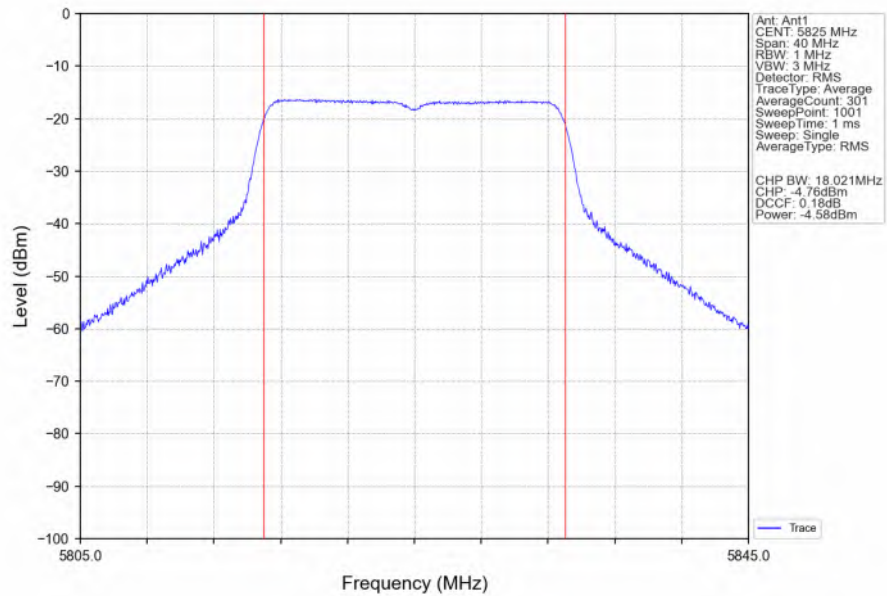
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



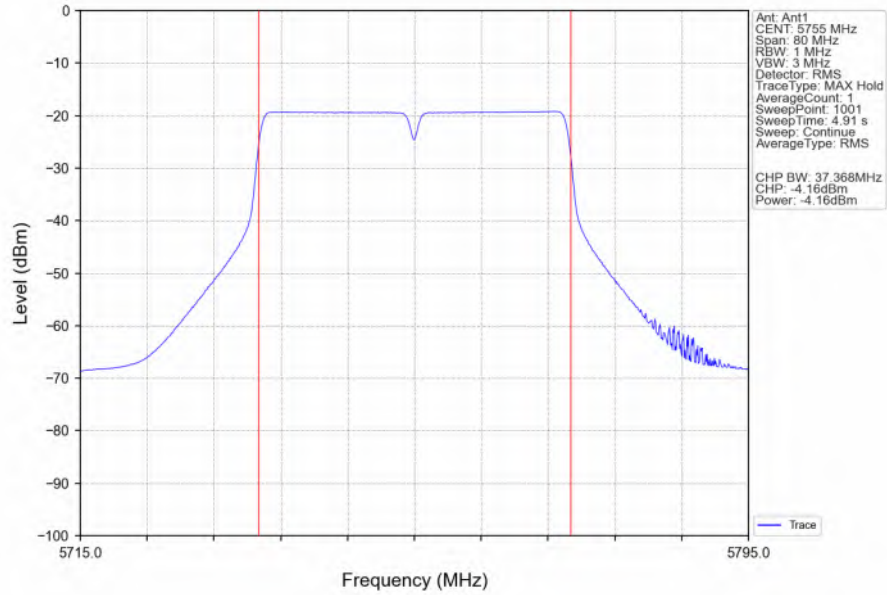
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



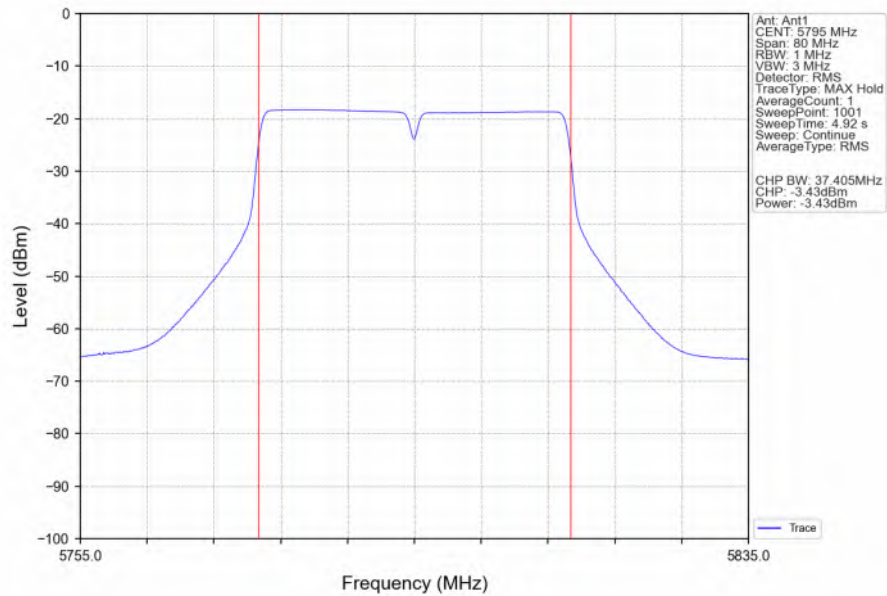
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



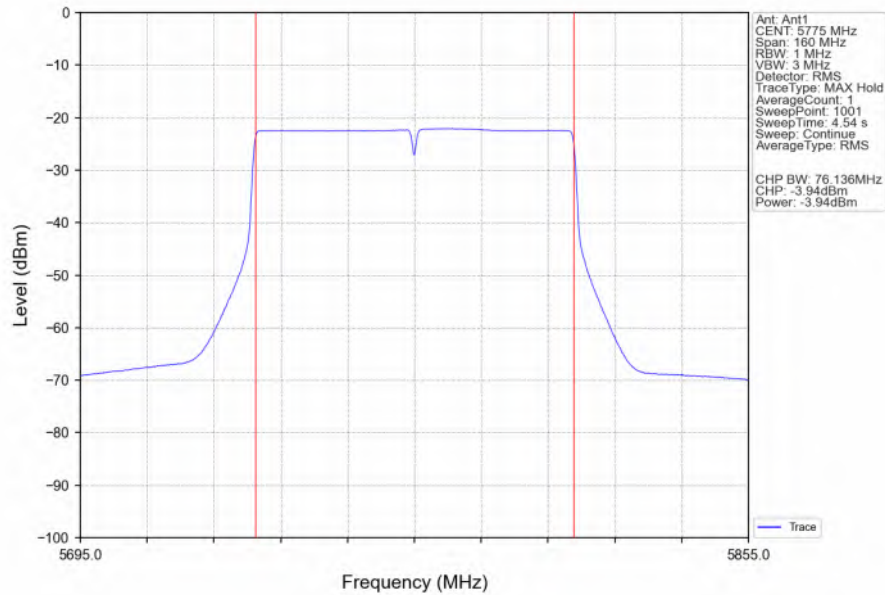
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



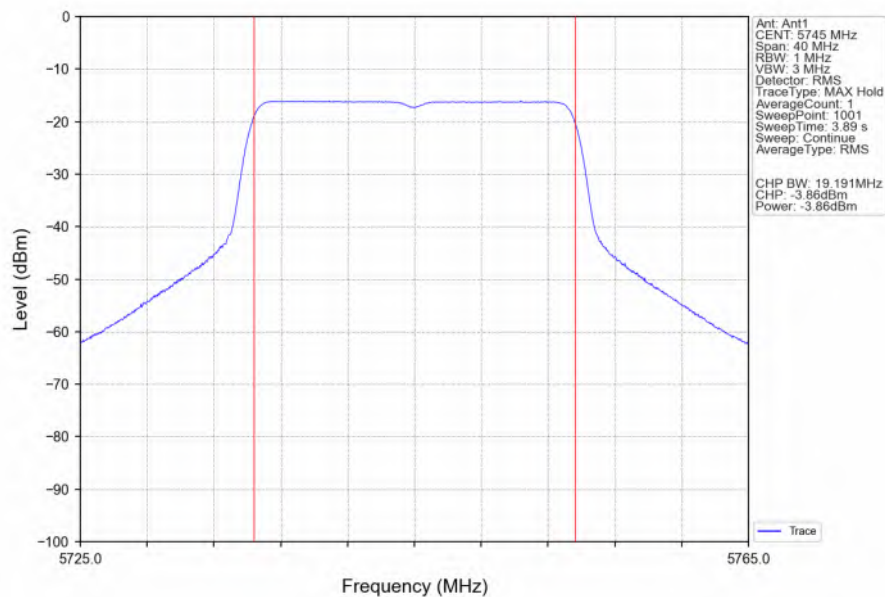
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



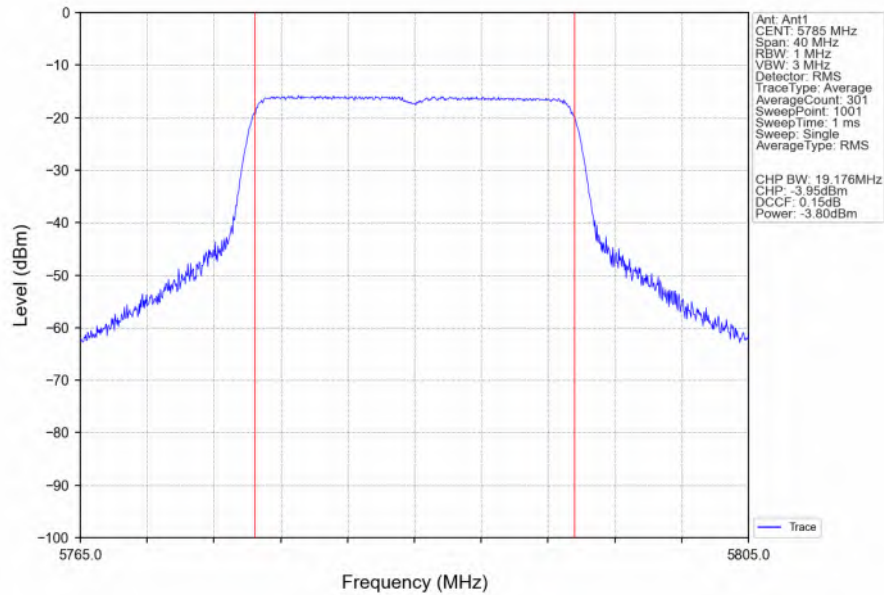
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



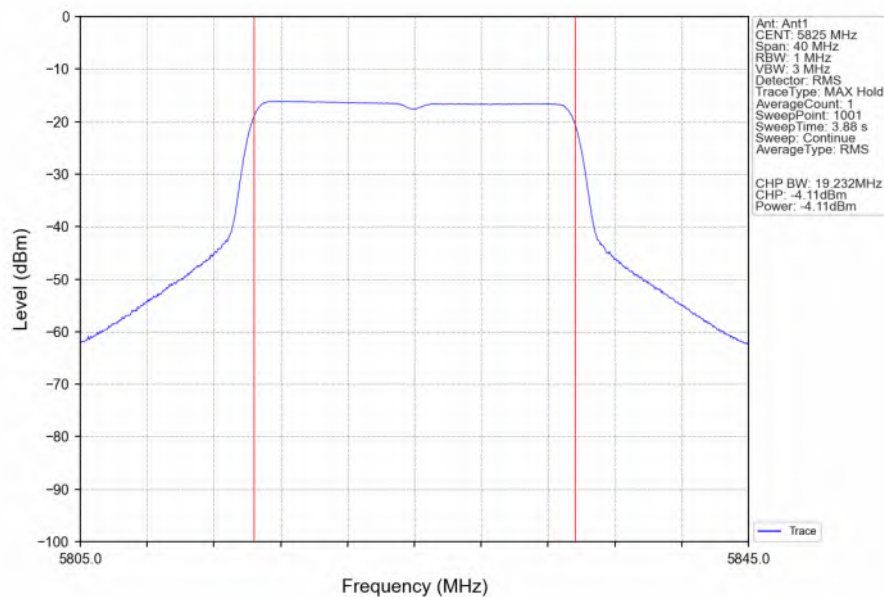
802.11ax(HEW20)_LCH_5745MHz_SU_ / _Ant1_NTNV



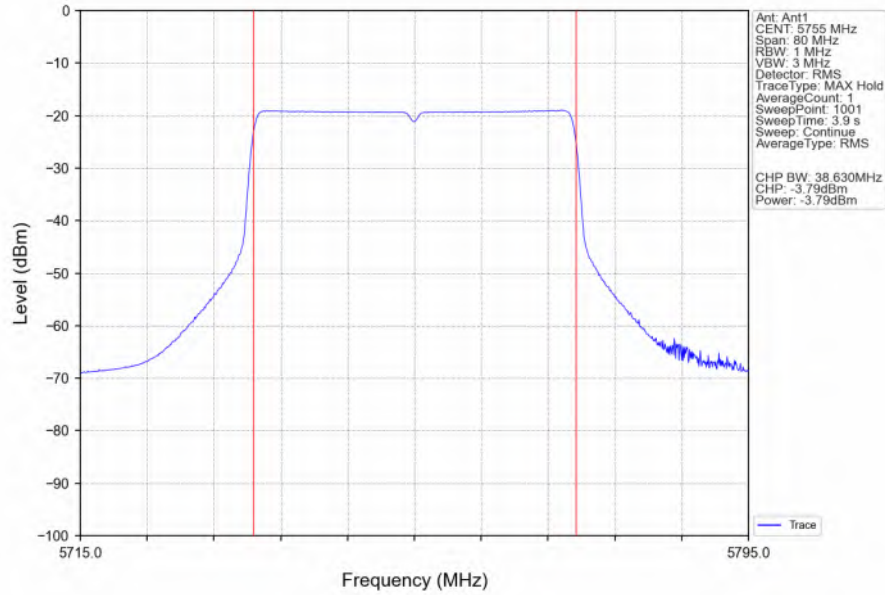
802.11ax(HEW20)_MCH_5785MHz_SU_ / _Ant1_NTNV



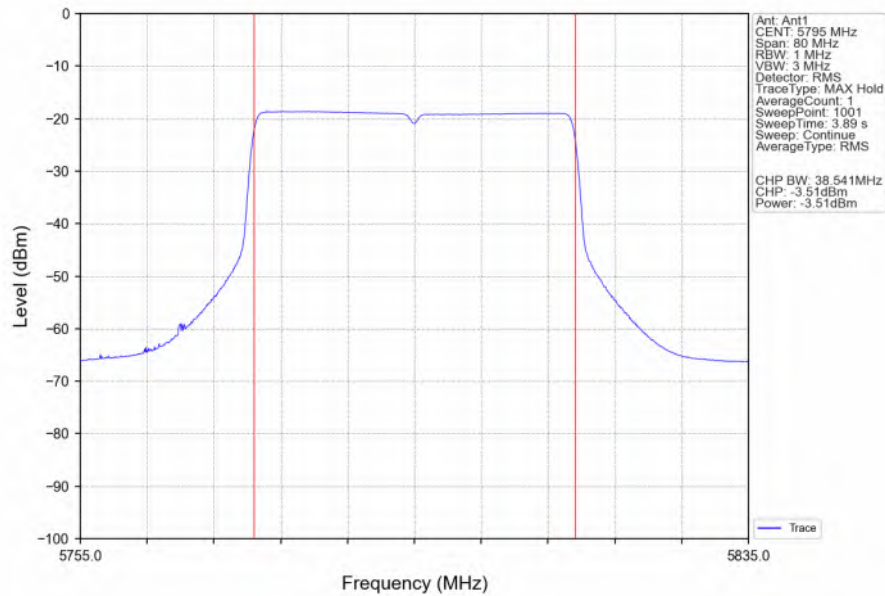
802.11ax(HEW20)_HCH_5825MHz_SU_ / _Ant1_NTNV



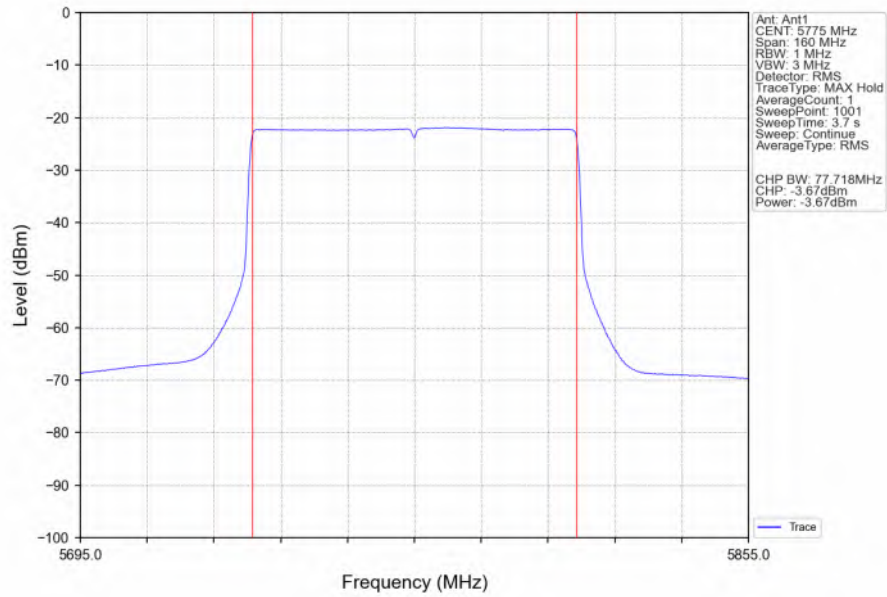
802.11ax(HEW40)_LCH_5755MHz_SU_ / _Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_ / _Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_SU_/_Ant1_NTNV



4. Maximum Power Spectral Density

4.1 Test Result

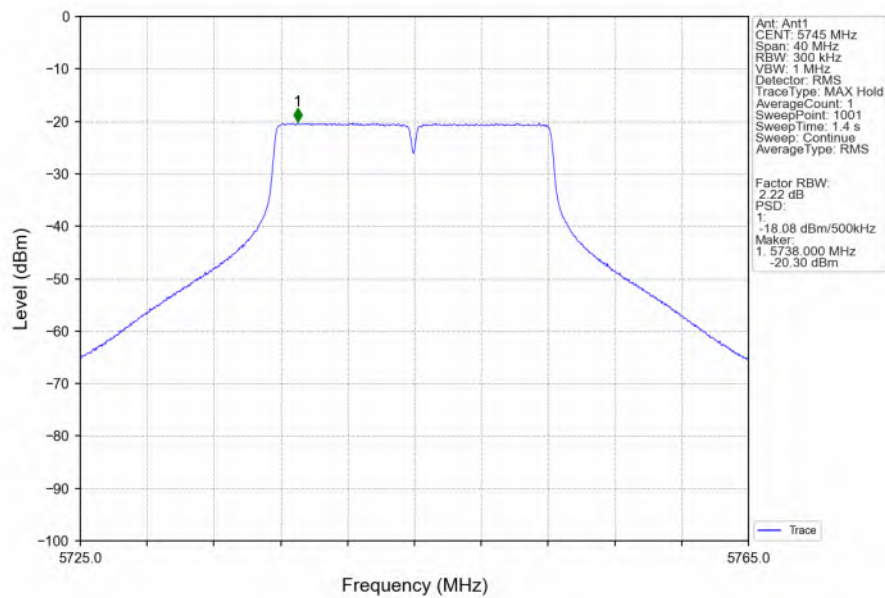
4.1.1 PSD-Band3

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)		Verdict
					ANT1	Limit	
802.11a	SISO	5745	/	/	-18.08	<=30	Pass
		5785	/	/	-17.57	<=30	Pass
		5825	/	/	-18.14	<=30	Pass
802.11ac (VHT20)	SISO	5745	/	/	-18.81	<=30	Pass
		5785	/	/	-18.07	<=30	Pass
		5825	/	/	-19.07	<=30	Pass
802.11ac (VHT40)	SISO	5755	/	/	-21.89	<=30	Pass
		5795	/	/	-21.03	<=30	Pass
802.11ac (VHT80)	SISO	5775	/	/	-24.88	<=30	Pass
802.11ax (HEW20)	SISO	5745	SU	/	-18.86	<=30	Pass
		5785	SU	/	-18.64	<=30	Pass
		5825	SU	/	-18.91	<=30	Pass
802.11ax (HEW40)	SISO	5755	SU	/	-21.86	<=30	Pass
		5795	SU	/	-21.41	<=30	Pass
802.11ax (HEW80)	SISO	5775	SU	/	-24.73	<=30	Pass
Note1: Antenna Gain: Ant1: 2.10dBi;							

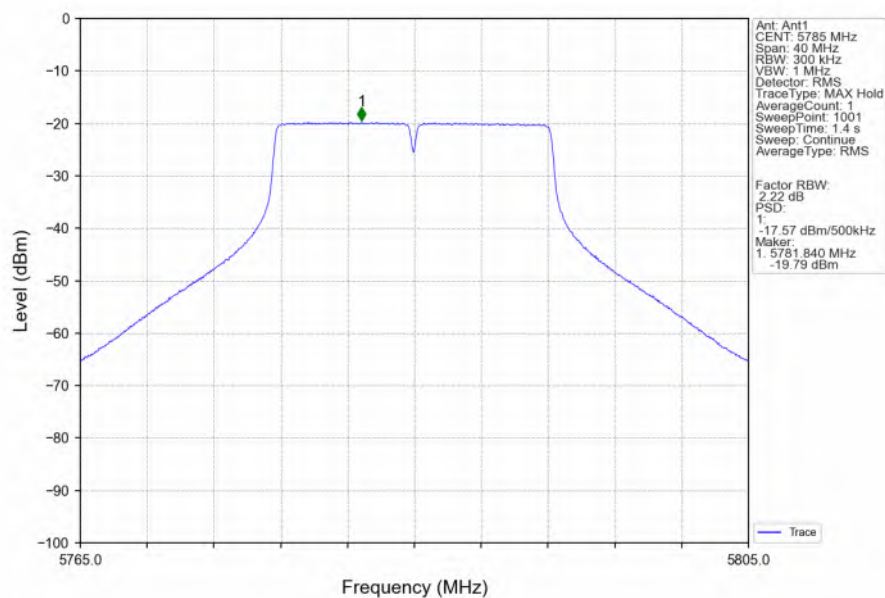
4.2 Test Graph

4.2.1 PSD-Band3

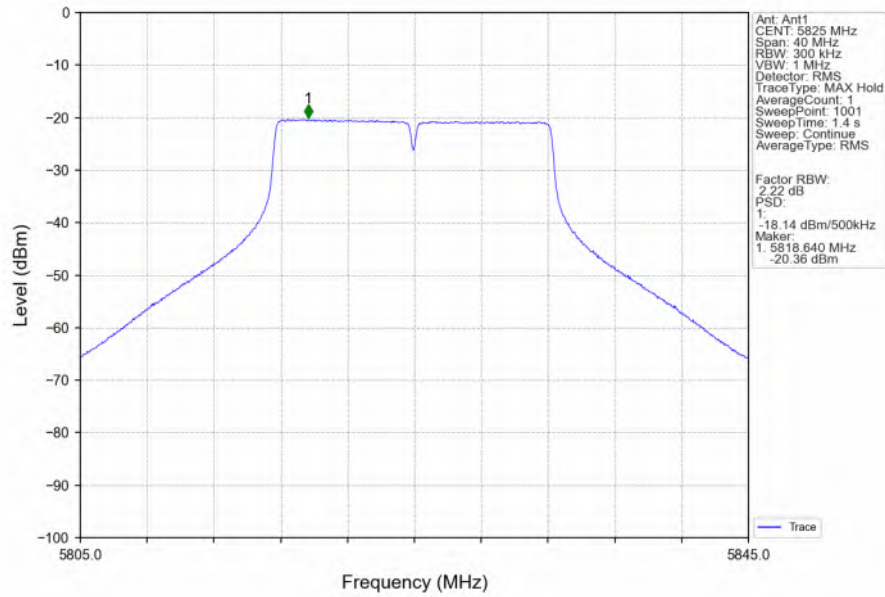
802.11a_LCH_5745MHz_Ant1_NTNV



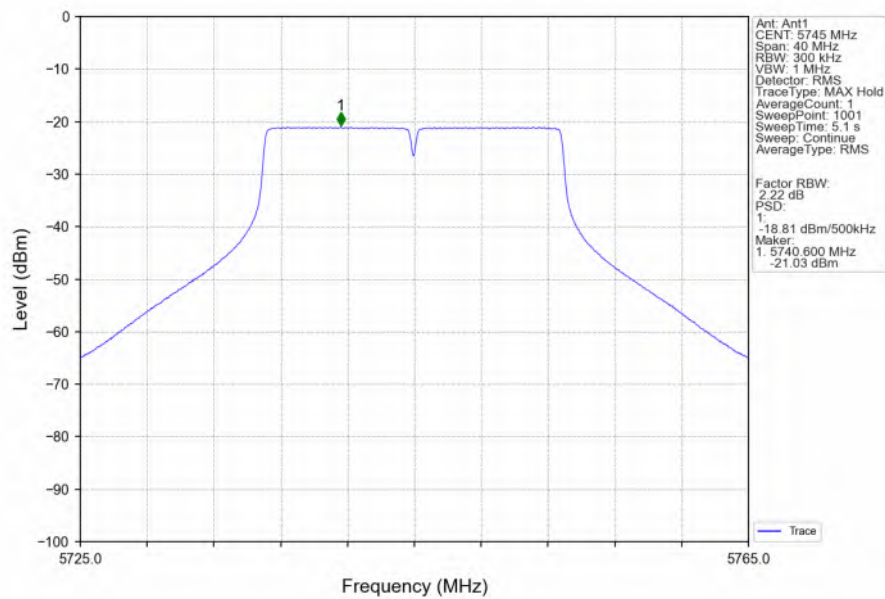
802.11a_MCH_5785MHz_Ant1_NTNV



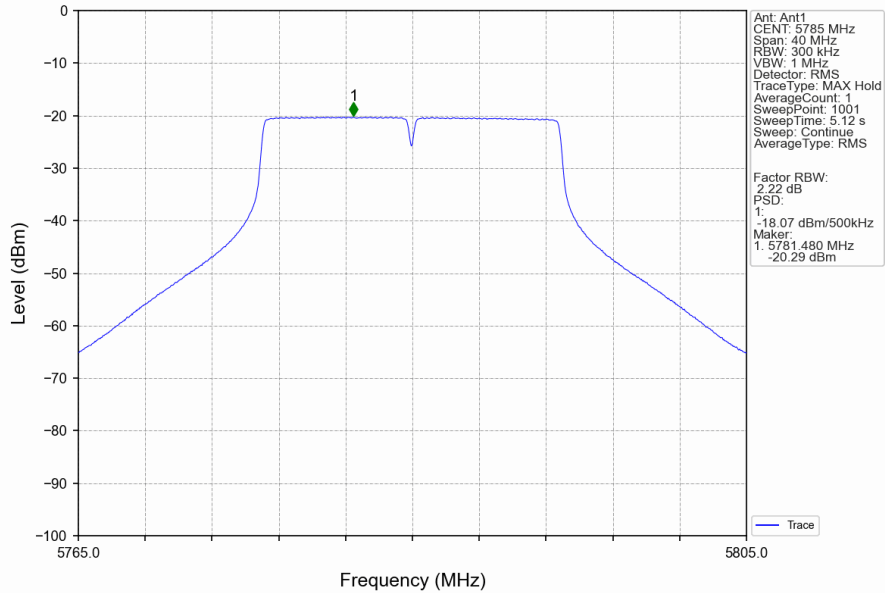
802.11a_HCH_5825MHz_Ant1_NTNV



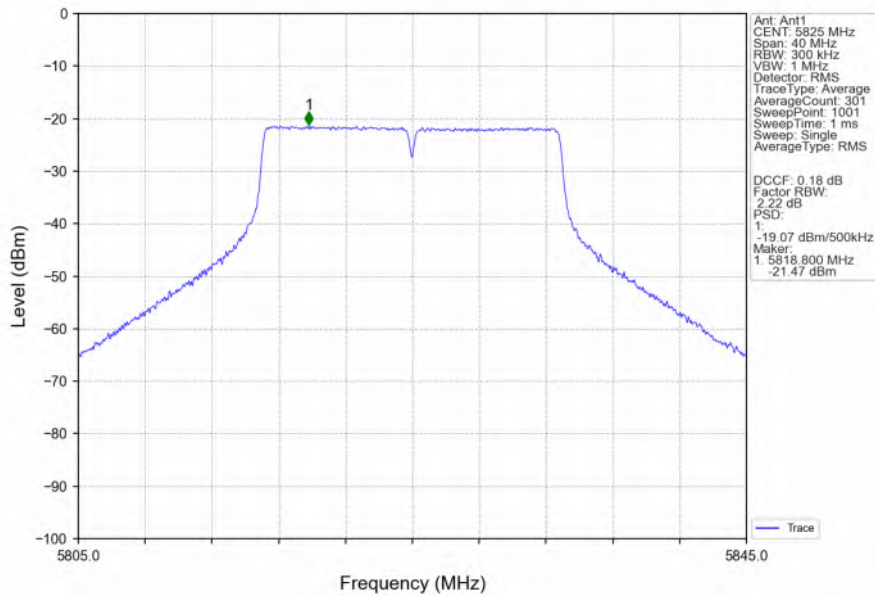
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



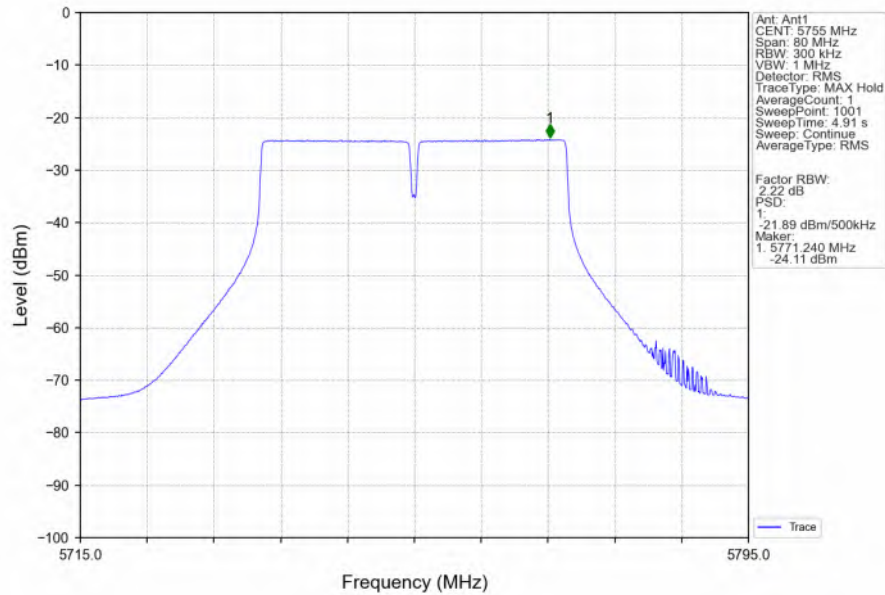
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



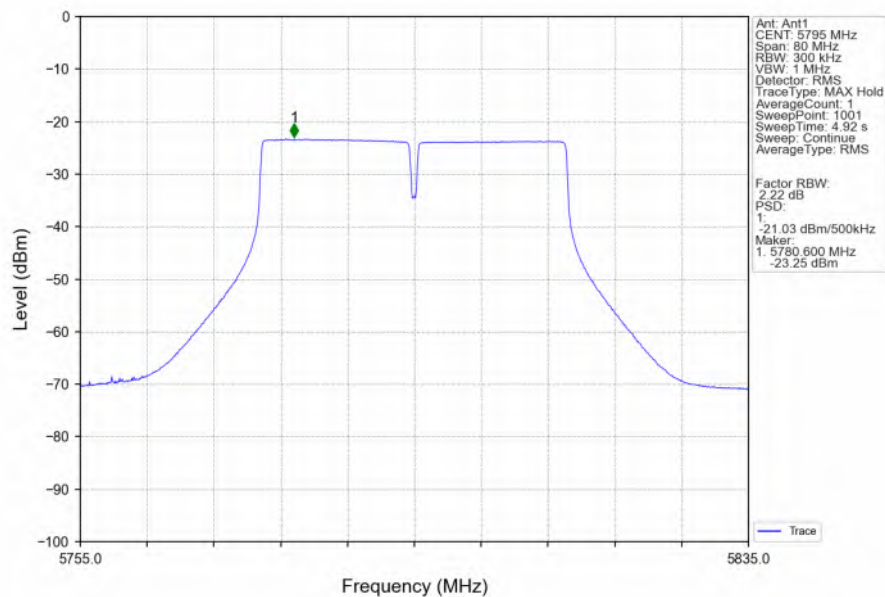
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



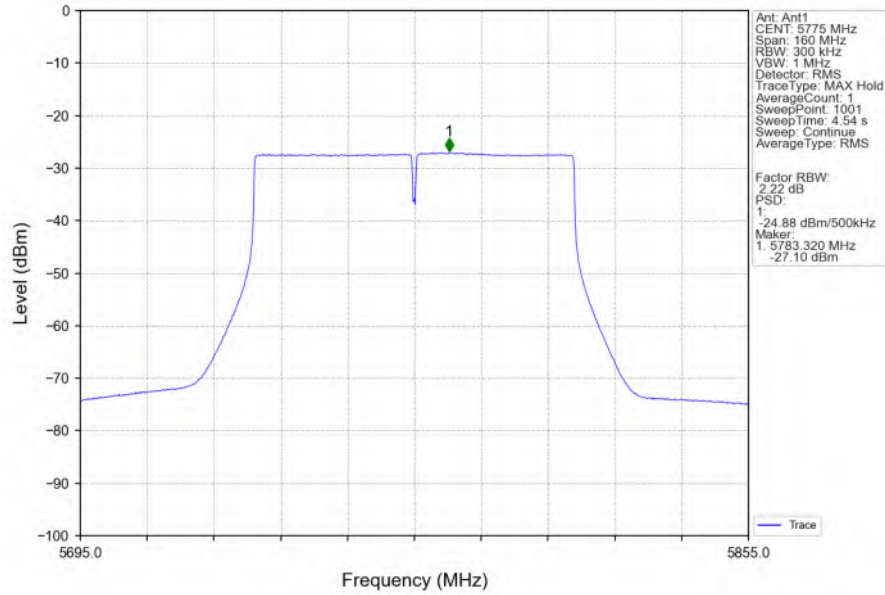
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



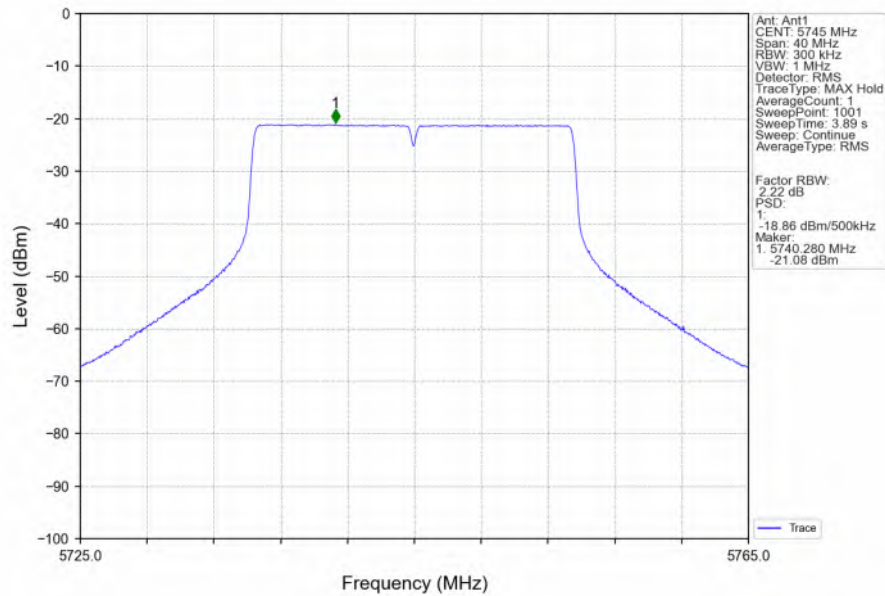
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



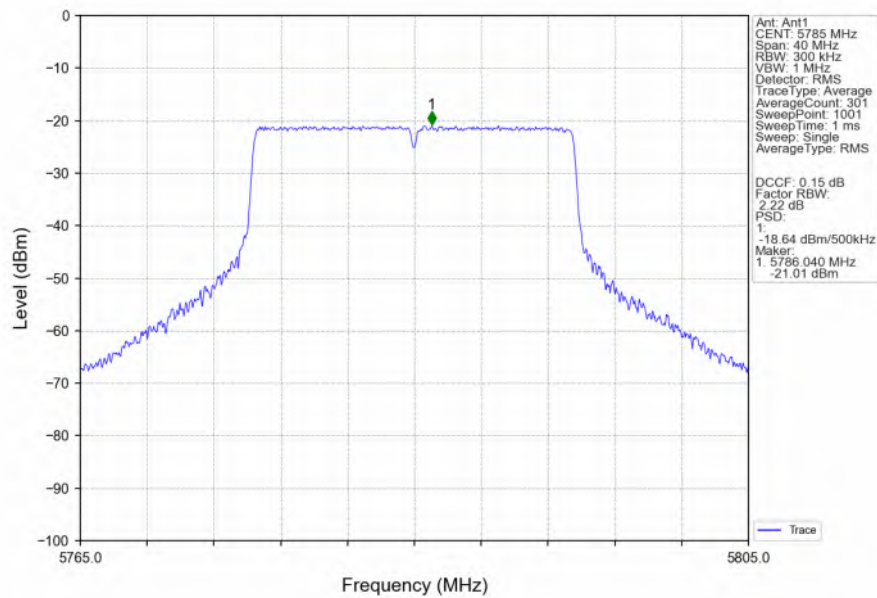
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



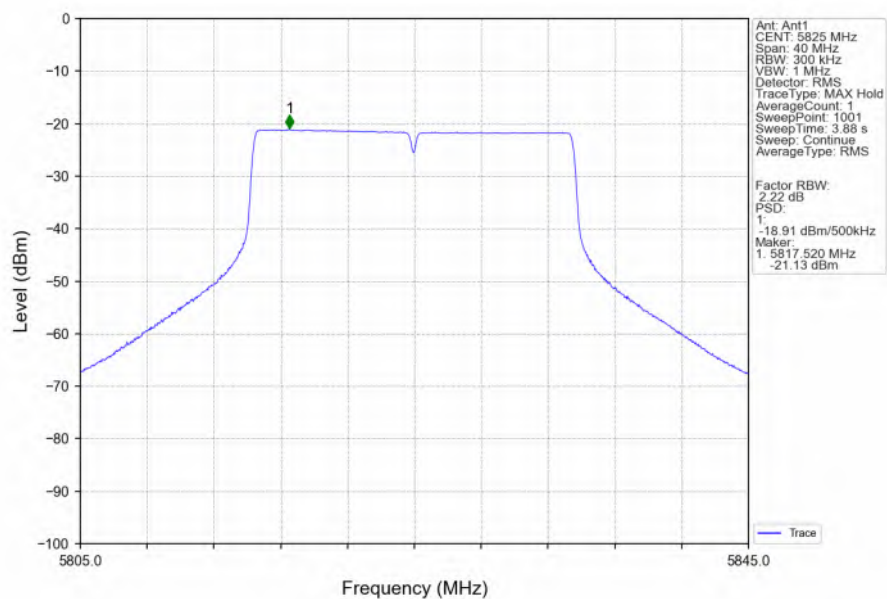
802.11ax(HEW20)_LCH_5745MHz_SU_ / _Ant1_NTNV



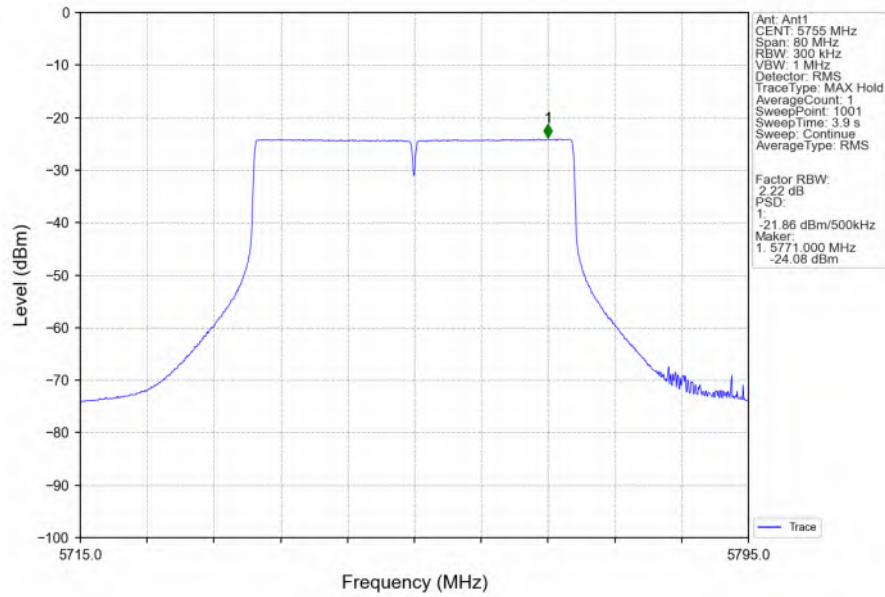
802.11ax(HEW20)_MCH_5785MHz_SU_ / _Ant1_NTNV



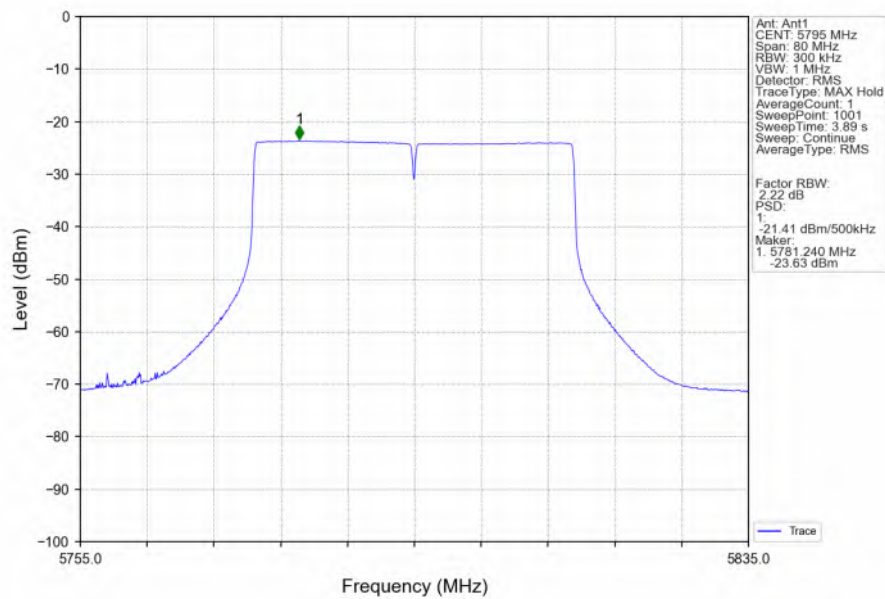
802.11ax(HEW20)_HCH_5825MHz_SU_ / _Ant1_NTNV



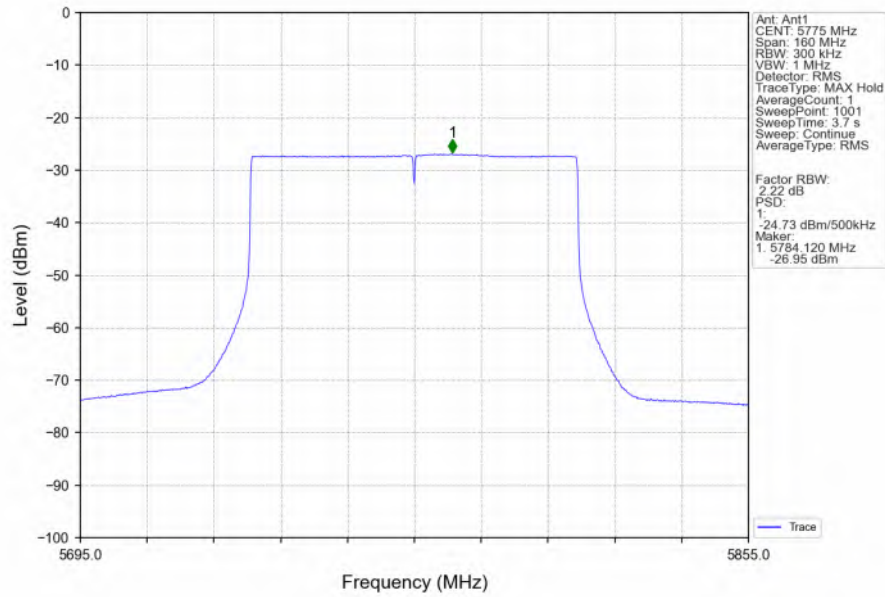
802.11ax(HEW40)_LCH_5755MHz_SU_ / _Ant1_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_ / _Ant1_NTNV



802.11ax(HEW80)_MCH_5775MHz_SU_/_Ant1_NTNV



5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5745	/	/	20	4.25	5744.980	5725 to 5850	Pass
						5.0	5744.960	5725 to 5850	Pass
						5.75	5745.000	5725 to 5850	Pass
					-30	5.0	5744.960	5725 to 5850	Pass
					-20	5.0	5745.000	5725 to 5850	Pass
					-10	5.0	5744.900	5725 to 5850	Pass
					0	5.0	5744.880	5725 to 5850	Pass
					10	5.0	5744.960	5725 to 5850	Pass
					30	5.0	5744.940	5725 to 5850	Pass
					40	5.0	5744.940	5725 to 5850	Pass
					50	5.0	5744.960	5725 to 5850	Pass
		5785	/	/	20	4.25	5784.960	5725 to 5850	Pass
						5.0	5784.980	5725 to 5850	Pass
						5.75	5784.960	5725 to 5850	Pass
					-30	5.0	5784.940	5725 to 5850	Pass
					-20	5.0	5784.900	5725 to 5850	Pass
					-10	5.0	5784.900	5725 to 5850	Pass
					0	5.0	5784.920	5725 to 5850	Pass
					10	5.0	5784.920	5725 to 5850	Pass
					30	5.0	5784.960	5725 to 5850	Pass
					40	5.0	5784.940	5725 to 5850	Pass
					50	5.0	5784.980	5725 to 5850	Pass
		5825	/	/	20	4.25	5824.940	5725 to 5850	Pass
						5.0	5824.940	5725 to 5850	Pass
						5.75	5824.920	5725 to 5850	Pass
					-30	5.0	5824.960	5725 to 5850	Pass
					-20	5.0	5824.940	5725 to 5850	Pass
					-10	5.0	5824.960	5725 to 5850	Pass
					0	5.0	5824.920	5725 to 5850	Pass
					10	5.0	5824.940	5725 to 5850	Pass
					30	5.0	5824.900	5725 to 5850	Pass
					40	5.0	5824.940	5725 to 5850	Pass

					50	5.0	5824.900	5725 to 5850	Pass
802.11ac (VHT20)	SISO	5745	/	/	20	4.25	5745.020	5725 to 5850	Pass
						5.0	5744.960	5725 to 5850	Pass
						5.75	5744.980	5725 to 5850	Pass
					-30	5.0	5744.940	5725 to 5850	Pass
					-20	5.0	5744.980	5725 to 5850	Pass
					-10	5.0	5745.000	5725 to 5850	Pass
					0	5.0	5744.900	5725 to 5850	Pass
					10	5.0	5744.980	5725 to 5850	Pass
					30	5.0	5744.960	5725 to 5850	Pass
					40	5.0	5744.980	5725 to 5850	Pass
					50	5.0	5745.000	5725 to 5850	Pass
		5785	/	/	20	4.25	5784.980	5725 to 5850	Pass
						5.0	5784.980	5725 to 5850	Pass
						5.75	5784.960	5725 to 5850	Pass
					-30	5.0	5784.980	5725 to 5850	Pass
					-20	5.0	5784.980	5725 to 5850	Pass
					-10	5.0	5784.960	5725 to 5850	Pass
					0	5.0	5784.940	5725 to 5850	Pass
					10	5.0	5784.940	5725 to 5850	Pass
					30	5.0	5785.000	5725 to 5850	Pass
					40	5.0	5784.960	5725 to 5850	Pass
					50	5.0	5784.980	5725 to 5850	Pass
		5825	/	/	20	4.25	5824.980	5725 to 5850	Pass
						5.0	5824.900	5725 to 5850	Pass
						5.75	5824.940	5725 to 5850	Pass
					-30	5.0	5824.900	5725 to 5850	Pass
					-20	5.0	5824.960	5725 to 5850	Pass
					-10	5.0	5824.920	5725 to 5850	Pass
					0	5.0	5824.960	5725 to 5850	Pass
					10	5.0	5824.980	5725 to 5850	Pass
					30	5.0	5824.940	5725 to 5850	Pass
					40	5.0	5824.960	5725 to 5850	Pass
					50	5.0	5824.920	5725 to 5850	Pass
802.11ac (VHT40)	SISO	5755	/	/	20	4.25	5754.960	5725 to 5850	Pass
						5.0	5755.000	5725 to 5850	Pass
						5.75	5754.960	5725 to 5850	Pass
					-30	5.0	5755.040	5725 to 5850	Pass
					-20	5.0	5755.000	5725 to 5850	Pass
					-10	5.0	5755.000	5725 to 5850	Pass
					0	5.0	5755.000	5725 to 5850	Pass
					10	5.0	5754.920	5725 to 5850	Pass
					30	5.0	5755.040	5725 to 5850	Pass

		5795	/	/	40	5.0	5754.960	5725 to 5850	Pass
					50	5.0	5754.960	5725 to 5850	Pass
					20	4.25	5795.000	5725 to 5850	Pass
						5.0	5795.040	5725 to 5850	Pass
						5.75	5794.960	5725 to 5850	Pass
					-30	5.0	5794.960	5725 to 5850	Pass
					-20	5.0	5794.960	5725 to 5850	Pass
					-10	5.0	5795.000	5725 to 5850	Pass
					0	5.0	5795.000	5725 to 5850	Pass
					10	5.0	5795.000	5725 to 5850	Pass
					30	5.0	5795.000	5725 to 5850	Pass
					40	5.0	5794.920	5725 to 5850	Pass
					50	5.0	5794.920	5725 to 5850	Pass
802.11ac (VHT80)	SISO	5775	/	/	20	4.25	5774.925	5725 to 5850	Pass
						5.0	5775.000	5725 to 5850	Pass
						5.75	5775.075	5725 to 5850	Pass
					-30	5.0	5775.000	5725 to 5850	Pass
					-20	5.0	5774.925	5725 to 5850	Pass
					-10	5.0	5774.925	5725 to 5850	Pass
					0	5.0	5775.000	5725 to 5850	Pass
					10	5.0	5774.925	5725 to 5850	Pass
					30	5.0	5775.000	5725 to 5850	Pass
					40	5.0	5774.925	5725 to 5850	Pass
					50	5.0	5775.075	5725 to 5850	Pass
802.11ax (HEW20)	SISO	5745	SU	/	20	4.25	5744.940	5725 to 5850	Pass
						5.0	5744.960	5725 to 5850	Pass
						5.75	5744.980	5725 to 5850	Pass
					-30	5.0	5744.980	5725 to 5850	Pass
					-20	5.0	5744.960	5725 to 5850	Pass
					-10	5.0	5744.900	5725 to 5850	Pass
					0	5.0	5744.960	5725 to 5850	Pass
					10	5.0	5744.960	5725 to 5850	Pass
					30	5.0	5745.020	5725 to 5850	Pass
					40	5.0	5744.960	5725 to 5850	Pass
					50	5.0	5744.940	5725 to 5850	Pass
		5785	SU	/	20	4.25	5785.020	5725 to 5850	Pass
						5.0	5785.000	5725 to 5850	Pass
						5.75	5784.920	5725 to 5850	Pass
					-30	5.0	5784.920	5725 to 5850	Pass
					-20	5.0	5784.960	5725 to 5850	Pass
					-10	5.0	5784.900	5725 to 5850	Pass
					0	5.0	5785.000	5725 to 5850	Pass
					10	5.0	5785.000	5725 to 5850	Pass
					10	5.0	5785.000	5725 to 5850	Pass

					30	5.0	5784.980	5725 to 5850	Pass
					40	5.0	5784.980	5725 to 5850	Pass
					50	5.0	5785.020	5725 to 5850	Pass
					20	4.25	5824.920	5725 to 5850	Pass
						5.0	5824.980	5725 to 5850	Pass
						5.75	5824.920	5725 to 5850	Pass
					-30	5.0	5824.940	5725 to 5850	Pass
					-20	5.0	5824.920	5725 to 5850	Pass
					-10	5.0	5824.920	5725 to 5850	Pass
					0	5.0	5824.960	5725 to 5850	Pass
					10	5.0	5824.860	5725 to 5850	Pass
					30	5.0	5824.980	5725 to 5850	Pass
					40	5.0	5824.920	5725 to 5850	Pass
					50	5.0	5824.980	5725 to 5850	Pass
802.11ax (HEW40)	SISO	5825	SU	/	20	4.25	5754.920	5725 to 5850	Pass
						5.0	5754.960	5725 to 5850	Pass
						5.75	5755.040	5725 to 5850	Pass
					-30	5.0	5755.000	5725 to 5850	Pass
					-20	5.0	5755.000	5725 to 5850	Pass
					-10	5.0	5755.000	5725 to 5850	Pass
					0	5.0	5754.960	5725 to 5850	Pass
					10	5.0	5755.000	5725 to 5850	Pass
					30	5.0	5754.880	5725 to 5850	Pass
					40	5.0	5754.960	5725 to 5850	Pass
					50	5.0	5754.960	5725 to 5850	Pass
		5795	SU	/	20	4.25	5795.040	5725 to 5850	Pass
						5.0	5795.000	5725 to 5850	Pass
						5.75	5794.960	5725 to 5850	Pass
					-30	5.0	5794.960	5725 to 5850	Pass
					-20	5.0	5795.040	5725 to 5850	Pass
					-10	5.0	5794.960	5725 to 5850	Pass
					0	5.0	5794.920	5725 to 5850	Pass
					10	5.0	5794.920	5725 to 5850	Pass
					30	5.0	5795.000	5725 to 5850	Pass
802.11ax (HEW80)	SISO	5775	SU	/	20	4.25	5774.925	5725 to 5850	Pass
						5.0	5775.000	5725 to 5850	Pass
						5.75	5774.925	5725 to 5850	Pass
					-30	5.0	5775.000	5725 to 5850	Pass
					-20	5.0	5775.000	5725 to 5850	Pass
					-10	5.0	5775.000	5725 to 5850	Pass
					0	5.0	5774.925	5725 to 5850	Pass



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					10	5.0	5774.925	5725 to 5850	Pass
					30	5.0	5774.925	5725 to 5850	Pass
					40	5.0	5775.075	5725 to 5850	Pass
					50	5.0	5775.000	5725 to 5850	Pass

- End of the Report -