



Product Name: Smart Phone	Report No: FCC2022-06453RF4
Product Model: V Max	Security Classification: Open
Version: V1.0	Total Page:230

TIRT Testing Report

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RF TEST REPORT

FCC ID: 2AX4YVMAX

According to

47 CFR FCC Part 15, Subpart E(Section 15.407)

Equipment : Smart Phone
Model No. : V Max, S100Pro
All models are with same schematic, The only differences are model no. V Max is main test model, S100Pro is the adding model. No other differences.
Trademark : DOOGEE
Product No. : 20221220021903
Applicant : Shenzhen DOOGEE Hengtong Technology CO.,LTD

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.
- Test Date: 2022.12.13-2023.1.8

Lab: Beijing TIRT Technology Service Co.,Ltd Shenzhen

Add: 101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street,

Pingshan District, Shenzhen, China

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History of this test report

Original Report Issue Date: 2023.01.09

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

Shenzhen DOOGEE Hengtong Technology CO.,LTD

B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No.22, Longhua New District, Shenzhen, China

1.2 Manufacturer

Shenzhen DOOGEE Hengtong Technology CO.,LTD

B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No.22, Longhua New District, Shenzhen, China

1.3 Basic Description of Equipment Under Test

Equipment Name	Smart Phone			
Model Number	V Max, S100Pro All models are with same schematic, The only differences are model no. V Max is main test model, S100Pro is the adding model. No other differences.			
Trademark	DOOGEE			
Power Supply	Input: 100~240V, 50/60Hz			
Operating Temperature	0℃-40℃			
EUT Stage	☐ Product Unit		☒ Final-Sample	
Operating Band	5150MHz ~5250MHz 5725MHz ~5850MHz		☒ IEEE 802.11a/n/ac(20MHz)	
			☒ IEEE 802.11n/ac(40MHz)	
			☒ IEEE 802.11ac(80MHz)	
Product Type	IEEE 802.11a: WLAN (1TX, 1RX) IEEE 802.11n: WLAN (2TX, 2RX) IEEE 802.11ac: WLAN (2TX, 2RX)			
Nominal Bandwidth	20MHz / 40MHz / 80MHz			
Modulation	IEEE 802.11a: OFDM (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11n: (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11ac: (BPSK / QPSK / 16QAM / 64QAM / 256QAM)			
Data Rate (Mbps)	IEEE 11a mode : OFDM (6/9/12/18/24/36/48/54) IEEE 11n mode : MCS0~MCS7 IEEE 11ac mode : MCS0~MCS9			
Type of Device	Client device without Radar detection			
TPC Function	☐	With TPC	☒	Without TPC
Beamforming Function	☐	With Beamforming	☒	Without Beamforming
DFS Function (Client devices)	N/A			

Antenna Type:	ANT 1	PIFA Antenna
	ANT 2	PIFA Antenna
Antenna Gain:	ANT 1	0.43 dBi
	ANT 2	0.43 dBi

Note:

All model:

Only the model V Max was tested, All the EUTs have the same wifi module and antenna, the only difference between them is the software function for seminal vesical measurement and testis measurement, so select V Max as the test model to cover the other EUTs.

Channel Information			
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	802.11a /n /ac (20MHz)	5180-5240	36-48
5725-5850		5745-5825	149-165
5150-5250	802.11n /ac (40MHz)	5190-5230	38-46
5725-5850		5755-5795	151-159
5150-5250	802.11ac (80MHz)	5210	42
5725-5850		5775	155

1.4 Description Of Support Units

Description	Manufacturer	Model No.	Serial Number	FCC ID	Supplied by
Wireless Router	N/A	N/A	N/A	KA2IRX5460A1	Lab

2. Summary of Test Results

2.1 Summary of Test Items

47 CFR FCC Part 15, Subpart E			
Test item	FCC Clause	Results	Remarks
AC Power Conducted Emission	15.207 15.407(b)	Pass	Meet the requirement of the limit
Radiated Emission	15.205(a) 15.209(a) 15.407(b)	Pass	Meet the requirement of the limit
Antenna Requirements	15.203	Compliance	The EUT has 2 internal PCB antennas arrangement which was permanently attached
Transmission in the Absence of Data	15.407 (c)	N/A	NA
Spectrum Bandwidth	15.407(a) 15.407(e)	Pass	Meet the requirement of the limit
Conducted Power	15.407(a)	Pass	Meet the requirement of the limit
Power Spectral Density	15.407(a)	Pass	Meet the requirement of the limit
Dynamic Frequency Selection (DFS)	15.407(h)	N/A	N/A
Note: NA denotes Not Applicable in this part			

2.2 Application of Standard

47 CFR FCC Part 15, Subpart E

KDB 662911 D01 Multiple Transmitter Output v02r01

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

ANSI C63.10:2013

2.3 Test Instruments

No.	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
Nominal Centre Frequency					
1	Spectrum Analyzer	Agilent	N9010A	MY52221119	2023/11/08
2	Power Collection Unit	Tonscend	JS0806-2	188060134	2023/11/08
3	Tonscend Test System	Tonscend	EN301893 V2.1.1	NA	NA
4	Temp&Humidity Recorder	Anymetre	JR900	NA	2023/11/08
5	Temp&Humidity Chamber	ETOMA	NTH1100-30 A	16080628	2023/11/08
6	Spectrum Analyzer	Rohde & Schwarz	FSV30	103741	2023/11/08
7	Integral antenna	SCHWARZBECK	VULB9163	9163-868	2023/11/08
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-123	2023/11/08
9	Horn antenna	SCHWARZBECK	BBHA 9170	9170#685	2023/11/08
10	Broadband amplifier	SCHWARZBECK	BBV9745	9745#46	2023/11/08

2.4 Operation Mode

The EUT was supplied by and it was run in TX mode that was controlled by client provided RF testing program.

The EUT was transmitted continuously during the test. The worst case test result was showed in the report.

2.5 Test Condition

Applicable to	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	24.6°C, 56 % RH	120V AC	Stone Tang
Radiated Emission	24.2°C, 55 % RH	120V AC	Stone Tang
Spectrum Bandwidth	24.6°C, 55 % RH	120V AC	Stone Tang
Conducted Power	24.7°C, 56 % RH	120V AC	Stone Tang
Power Spectral Density	24.6°C, 56 % RH	120V AC	Stone Tang
Frequency Stability	20.0°C, 56 % RH	120V AC	Stone Tang
Dynamic Frequency Selection (DFS)	24.3°C, 55 % RH	120V AC	Stone Tang

The applicant declare the operating environment of EUT as below:

Normal conditions: 120V AC ,15~35°C

2.6 Duty Cycle of Test Signal

Please Refer to Appendix for Details.

2.7 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	± 142.12 KHz
RF power conducted	± 0.74 dB
RF power radiated	± 3.25 dB
Spurious emissions, conducted	± 1.78 dB
Spurious emissions, radiated (9KHz~30MHz)	± 2.56 dB
Spurious emissions, radiated (30MHz~1GHz)	± 4.6 dB
Spurious emissions, radiated (Above 1GHz)	± 4.9 dB
Conduction Emissions(150kHz~30MHz)	± 3.1 dB
Humidity	$\pm 4.6\%$
Temperature	$\pm 0.7^{\circ}\text{C}$
Time	$\pm 1.25\%$

2.8 Test Location

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number	6049.01
FCC Designation Number	CN1309
Test Firm Registration Number	825524
Telephone:	+86-0755-27087573

2.9 Deviation from Standards

None

2.10 Abnormalities from Standard Conditions

None

3. Test Procedure And Results

3.1 AC Power Line Conducted Emission

3.1.1 Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

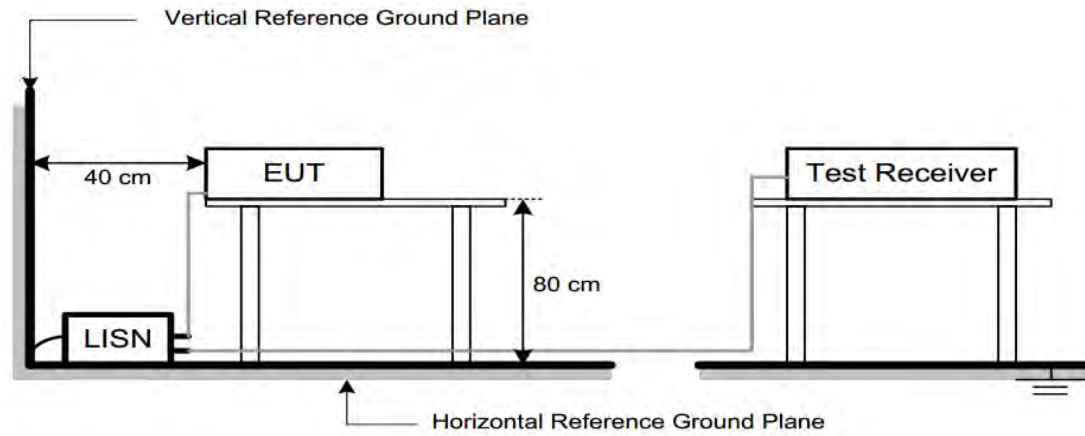
2. The lower limit shall apply at the transition frequencies.

3.1.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☐ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

3.1.3 Test Setup



3.1.4 Test Result

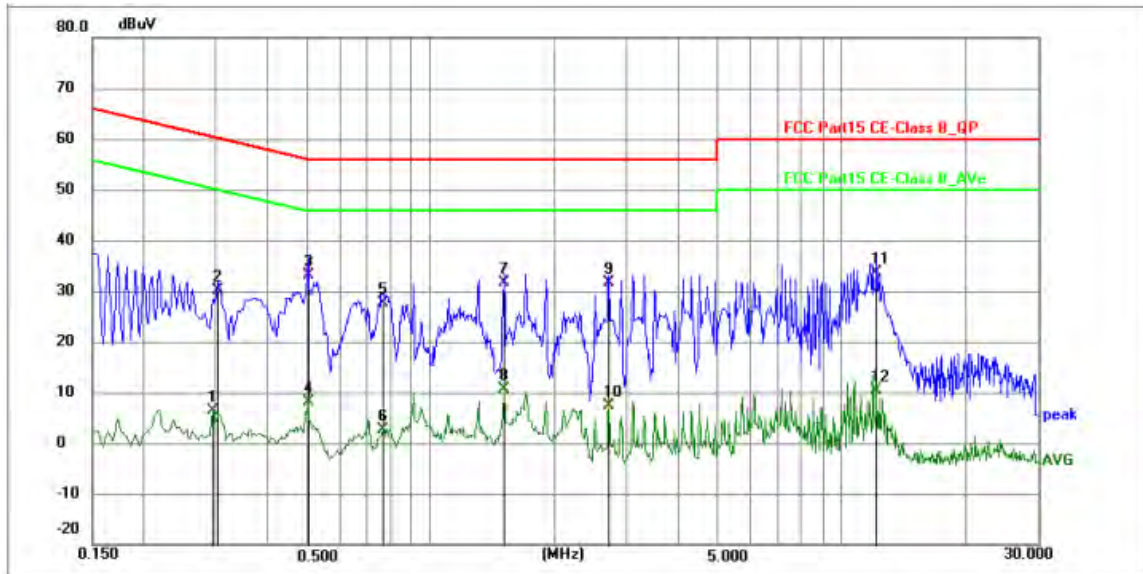
Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading + Correct Factor.
3. Over = Measurement - Limit

150kHz~30MHz

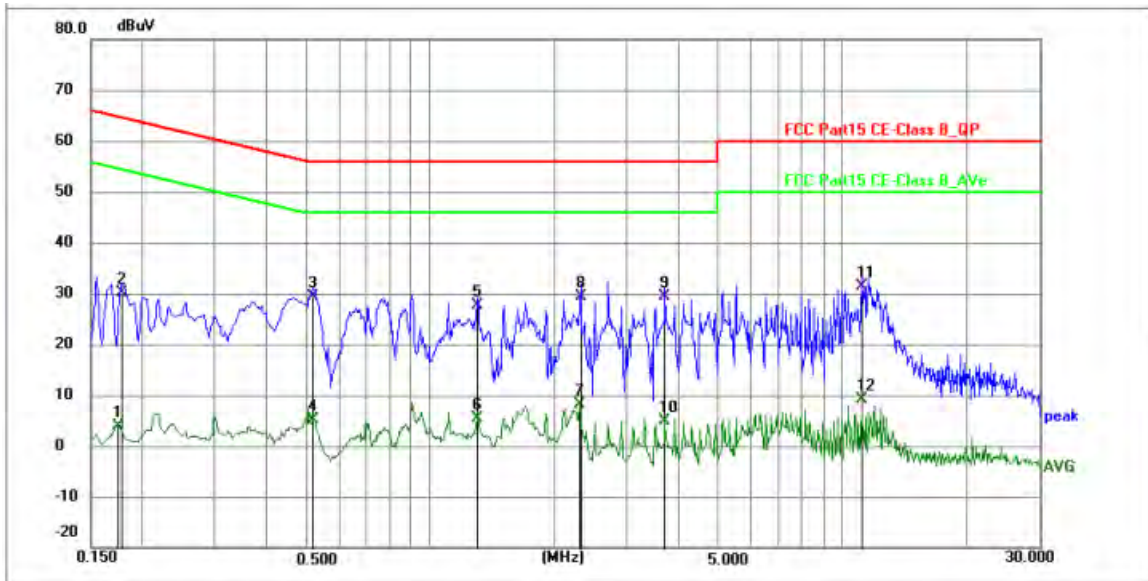
Worst Case Operating Mode: Simultaneous transmission

Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2940	-3.88	10.18	6.30	50.41	-44.11	AVG	P	
2	0.3030	19.94	10.18	30.12	60.16	-30.04	QP	P	
3 *	0.5010	22.88	10.26	33.14	56.00	-22.86	QP	P	
4	0.5010	-2.11	10.26	8.15	46.00	-37.85	AVG	P	
5	0.7665	17.41	10.24	27.65	56.00	-28.35	QP	P	
6	0.7665	-7.62	10.24	2.62	46.00	-43.38	AVG	P	
7	1.5045	21.49	10.25	31.74	56.00	-24.26	QP	P	
8	1.5045	0.35	10.25	10.60	46.00	-35.40	AVG	P	
9	2.7105	21.47	10.27	31.74	56.00	-24.26	QP	P	
10	2.7105	-2.96	10.27	7.31	46.00	-38.69	AVG	P	
11	12.1335	23.33	10.19	33.52	60.00	-26.48	QP	P	
12	12.1335	0.17	10.19	10.36	50.00	-39.64	AVG	P	

Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1740	-6.39	10.15	3.76	54.77	-51.01	AVG	P	
2	0.1770	19.96	10.16	30.12	64.63	-34.51	QP	P	
3 *	0.5190	19.19	10.26	29.45	56.00	-26.55	QP	P	
4	0.5190	-5.07	10.26	5.19	46.00	-40.81	AVG	P	
5	1.3020	17.38	10.27	27.65	56.00	-28.35	QP	P	
6	1.3020	-4.93	10.27	5.34	46.00	-40.66	AVG	P	
7	2.3054	-2.13	10.28	8.15	46.00	-37.85	AVG	P	
8	2.3100	19.16	10.28	29.44	56.00	-26.56	QP	P	
9	3.7094	19.10	10.23	29.33	56.00	-26.67	QP	P	
10	3.7094	-5.30	10.23	4.93	46.00	-41.07	AVG	P	
11	11.1344	21.13	10.29	31.42	60.00	-28.58	QP	P	
12	11.1344	-1.22	10.29	9.07	50.00	-40.93	AVG	P	

3.2 Radiated Emission

3.2.1 Limit

1) Limit of radiated emission measurement:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Distance Meters(m)	Field Strength Limit	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 – 0.49	300	2400/F(kHz)	-
0.490 – 1.705	30	24000/F(kHz)	-
1.705 – 30	30	30	-
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note: (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

2) Limit of unwanted emission out of the restricted bands:

FREQUENCY/ MHz	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m ($\text{dB}\mu\text{V/m}$)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27 NOTE (2)	68.3
	10 NOTE (2)	105.3
	15.6 NOTE (2)	110.9
	27 NOTE (2)	122.3

Note: (1) The following formula is used to convert the equipment isotropic radiated power (eirp) to

$$E = \frac{1000000\sqrt{30P}}{3}$$

field strength: $\mu\text{V/m}$, where P is the eirp (Watts)

(2) According to 15.407(b)(4)(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.

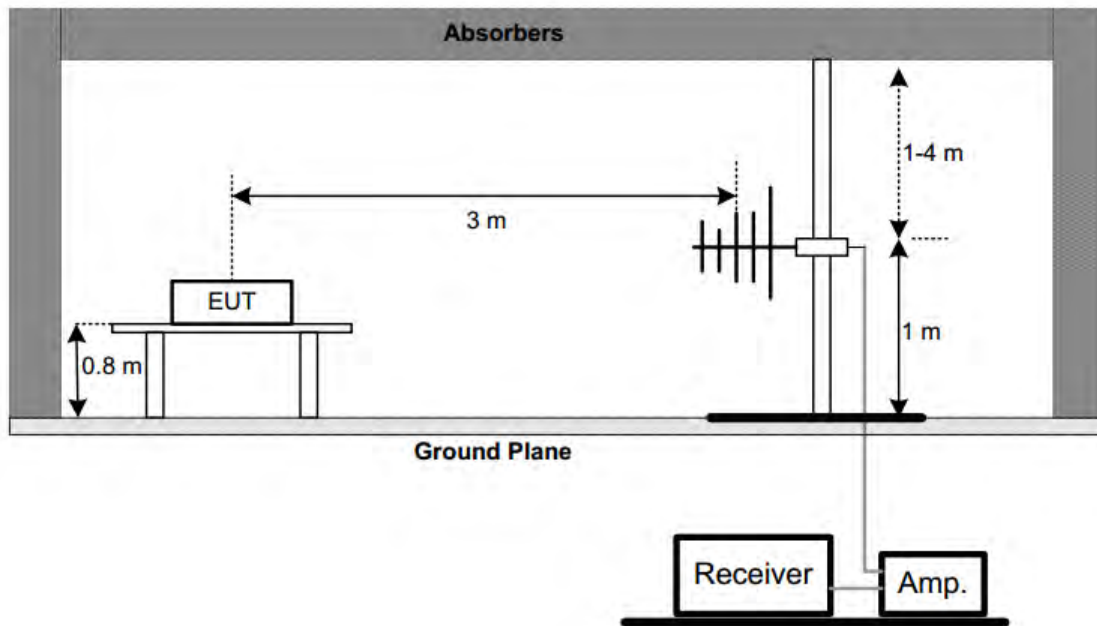
3.2.2 Test Procedure

Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

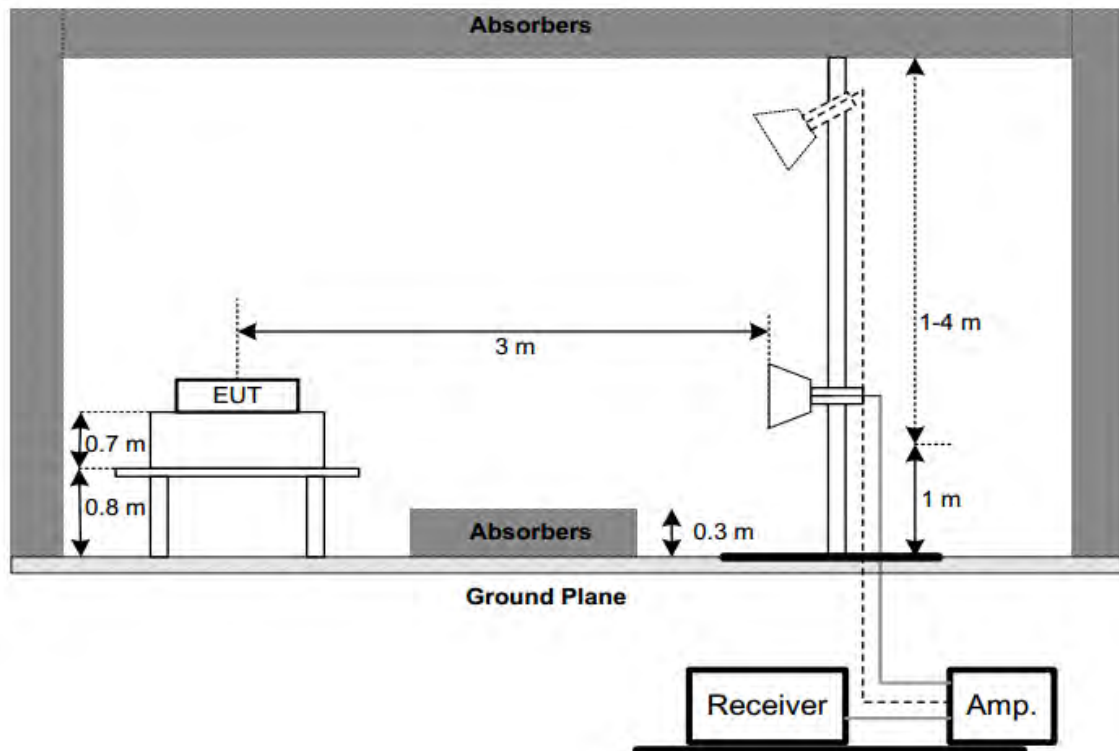
- a) The measuring distance of 3 m shall be used for measurements. The EUT was placed on the
- b) top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The
- c) table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- d) The measuring distance of 3 m or 1.5m shall be used for measurements. The EUT was placed
- e) on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber.
- f) The table was rotated 360 degrees to determine the position of the highest radiation.(above
- g) 1GHz)
- h) The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of
- i) the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of
- j) the antenna are set to make the measurement.
- k) For each suspected emission, the EUT was arranged to its worst case and then the antenna
- l) was tuned to heights find the maximum reading (used Bore sight function).
- m)The receiver system was set to peak and average detect function and specified bandwidth
- n) with maximum hold mode when the test frequency is above 1 GHz.
- o) The initial step in collecting radiated emission data is a receiver peak detector mode
- p) pre-scanning the measurement frequency range. Significant peaks are then marked and then
- q) Quasi Peak detector mode re-measured.
- r) All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the
- s) Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- t) (below 1 GHz)
- u) All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak
- v) Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT
- w) shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured,
- x) but AVG Mode didn't perform. (above 1 GHz)
- y) For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.3 Test Setup

(A) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



3.2.4 Test Result

1) Radiated emission: 9KHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

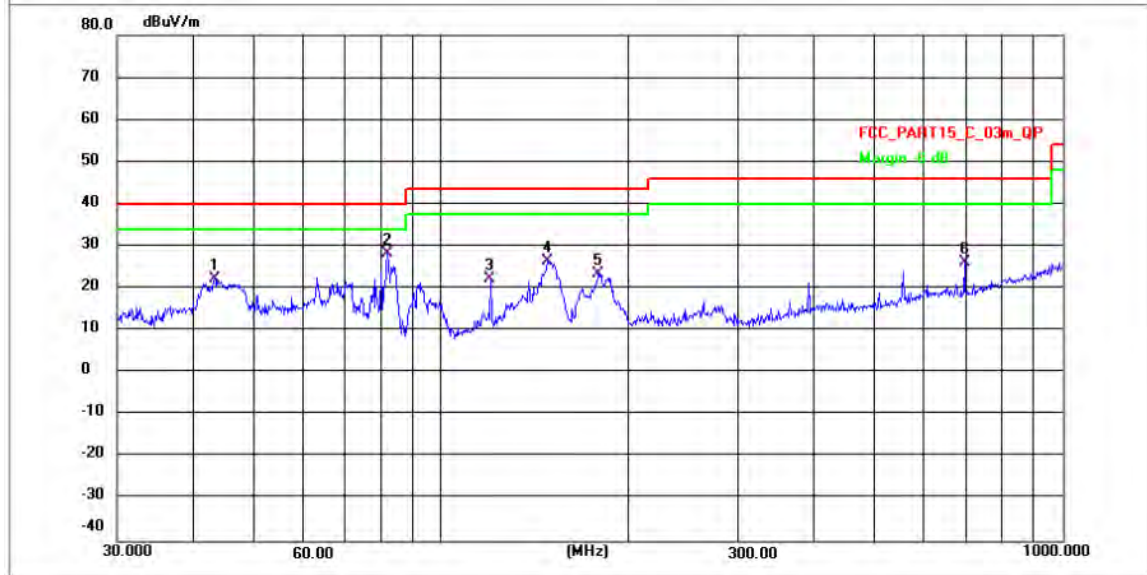
There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2) Radiated emission: 30MHz-1G

Note:

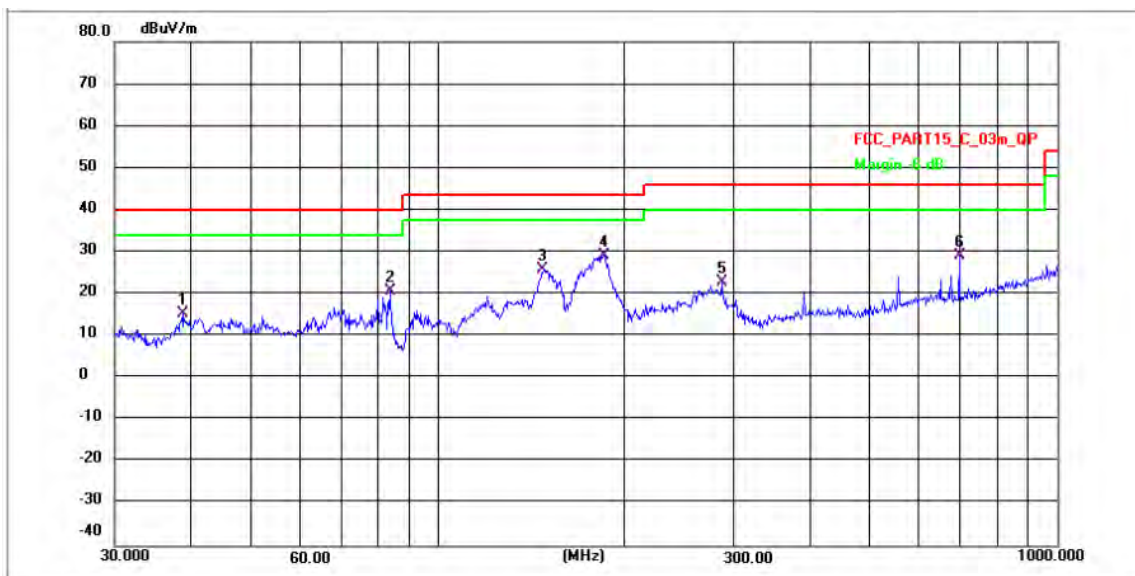
1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit

VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	43.1260	37.33	-15.12	22.21	40.00	-17.79	QP	P
2 *	81.7833	55.98	-27.87	28.11	40.00	-11.89	QP	P
3	120.0659	49.71	-27.50	22.21	43.50	-21.29	QP	P
4	148.4410	53.72	-27.26	26.46	43.50	-17.04	QP	P
5	179.3863	50.55	-27.14	23.41	43.50	-20.09	QP	P
6	696.8567	50.98	-24.79	26.19	46.00	-19.81	QP	P

HORIZONTAL



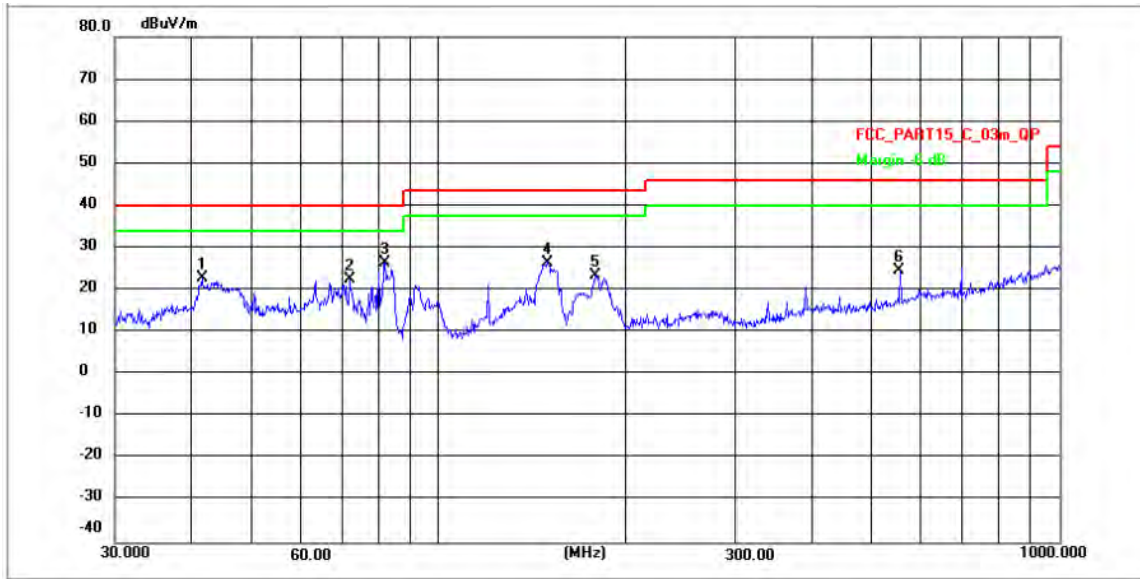
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	38.7518	29.45	-14.24	15.21	40.00	-24.79	QP	P
2	83.6688	48.60	-27.86	20.74	40.00	-19.26	QP	P
3	148.1809	53.06	-27.26	25.80	43.50	-17.70	QP	P
4 *	185.4628	56.30	-27.10	29.20	43.50	-14.30	QP	P
5	287.9904	49.27	-26.56	22.71	46.00	-23.29	QP	P
6	696.8567	54.00	-24.79	29.21	46.00	-16.79	QP	P

Below 1G (30MHz~1GHz)

Test mode: AC 80

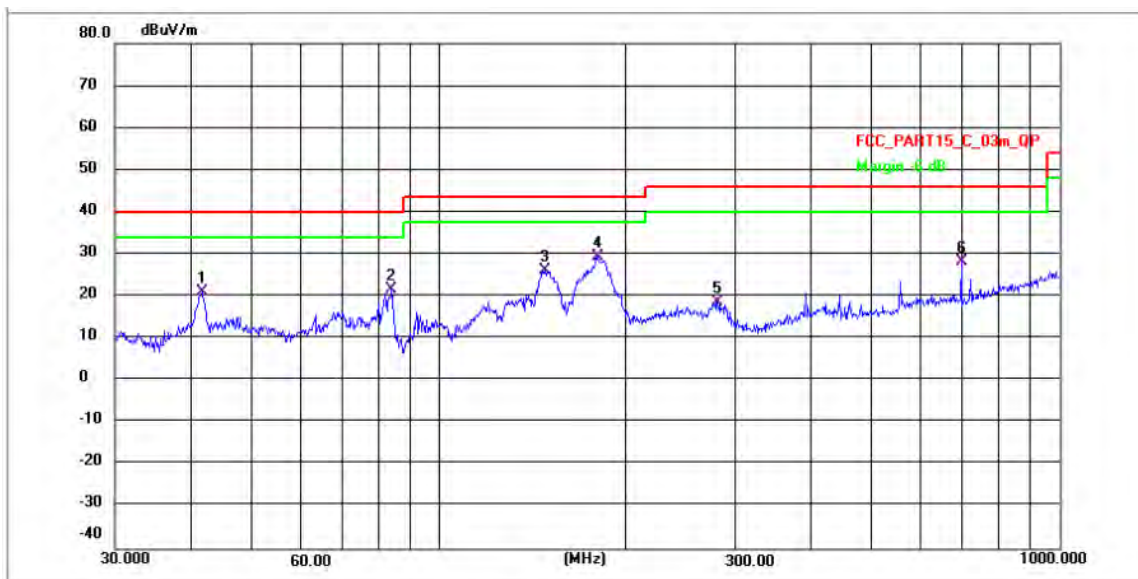
Test Channel:155

VERTICAL



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	41.4215	37.71	-14.83	22.88	40.00	-17.12	peak	P
2	71.7062	50.60	-27.91	22.69	40.00	-17.31	peak	P
3 *	81.9268	54.32	-27.87	26.45	40.00	-13.55	peak	P
4	149.4857	53.78	-27.25	26.53	43.50	-16.97	peak	P
5	179.0721	50.50	-27.14	23.36	43.50	-20.14	peak	P
6	552.8832	49.91	-25.29	24.62	46.00	-21.38	peak	P

HORIZONTAL



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	41.4942	34.62	-13.59	21.03	40.00	-18.97	QP	P
2	83.8156	49.52	-27.86	21.66	40.00	-18.34	QP	P
3	147.9214	53.55	-27.26	26.29	43.50	-17.21	QP	P
4 *	180.3324	56.57	-27.14	29.43	43.50	-14.07	QP	P
5	281.5006	45.22	-26.54	18.68	46.00	-27.32	QP	P
6	696.8567	53.00	-24.79	28.21	46.00	-17.79	QP	P

3) Radiated emission: Above 1G

Note:

1. Measurement = Reading + Correct Factor.
2. Over = Measurement - Limit

Above 1G (1GHz~40GHz)	Test mode:11a	Test Channel:36
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1348.717	68.82	-29.88	38.94	68.20	-29.26	peak	P
2	2104.906	71.20	-30.58	40.62	68.20	-27.58	peak	P
3	3500.746	76.07	-31.30	44.77	68.20	-23.43	peak	P
4	7107.263	79.45	-33.23	46.22	68.20	-21.98	peak	P
5	9585.684	83.97	-33.09	50.88	68.20	-17.32	peak	P
6 *	14387.618	86.65	-32.84	53.81	68.20	-14.39	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1238.483	67.70	-29.51	38.19	68.20	-30.01	peak	P
2	2071.709	71.17	-30.43	40.74	68.20	-27.46	peak	P
3	3214.623	72.53	-31.07	41.46	68.20	-26.74	peak	P
4	4449.879	75.73	-31.69	44.04	68.20	-24.16	peak	P
5	7242.052	79.80	-33.27	46.53	68.20	-21.67	peak	P
6 *	12290.698	84.26	-33.96	50.30	68.20	-17.90	peak	P

Above 1G (1GHz~40GHz)	Test mode:11a	Test Channel:40
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1191.088	71.92	-29.35	42.57	68.20	-25.63	peak	P
2	1848.185	70.73	-30.19	40.54	68.20	-27.66	peak	P
3	3465.510	76.51	-31.28	45.23	68.20	-22.97	peak	P
4	4831.962	79.89	-31.63	48.26	68.20	-19.94	peak	P
5	8625.924	83.66	-34.35	49.31	68.20	-18.89	peak	P
6 *	11633.928	86.56	-34.50	52.06	68.20	-16.14	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1191.088	72.92	-29.35	43.57	68.20	-24.63	peak	P
2	1958.172	71.32	-30.13	41.19	68.20	-27.01	peak	P
3	2880.247	76.24	-31.02	45.22	68.20	-22.98	peak	P
4	4449.879	76.73	-31.69	45.04	68.20	-23.16	peak	P
5	7530.223	80.39	-33.41	46.98	68.20	-21.22	peak	P
6 *	13059.822	85.53	-33.86	51.67	68.20	-16.53	peak	P

Above 1G (1GHz~40GHz)	Test mode:11a	Test Channel:48
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1191.088	69.42	-29.35	40.07	68.20	-28.13	peak	P
2	2053.822	71.53	-30.35	41.18	68.20	-27.02	peak	P
3	3425.674	76.60	-31.24	45.36	68.20	-22.84	peak	P
4	4449.879	77.23	-31.69	45.54	68.20	-22.66	peak	P
5	8625.924	83.66	-34.35	49.31	68.20	-18.89	peak	P
6 *	12290.698	85.26	-33.96	51.30	68.20	-16.90	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1114.481	70.40	-29.09	41.31	68.20	-26.89	peak	P
2	1891.418	69.28	-30.17	39.11	68.20	-29.09	peak	P
3	2880.247	72.74	-31.02	41.72	68.20	-26.48	peak	P
4	3790.361	73.74	-31.47	42.27	68.20	-25.93	peak	P
5	4824.984	77.86	-31.64	46.22	68.20	-21.98	peak	P
6 *	10729.481	82.91	-34.99	47.92	68.20	-20.28	peak	P

Above 1G (1GHz~40GHz)	Test mode:11a	Test Channel:149
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1329.365	67.96	-29.82	38.14	68.20	-30.06	peak	P
2	2453.365	71.16	-31.42	39.74	68.20	-28.46	peak	P
3	3693.033	73.37	-31.42	41.95	68.20	-26.25	peak	P
4	6313.006	79.49	-31.83	47.66	68.20	-20.54	peak	P
5	8995.123	81.87	-33.76	48.11	68.20	-20.09	peak	P
6 *	12290.698	83.76	-33.96	49.80	68.20	-18.40	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1282.193	68.38	-29.66	38.72	68.20	-29.48	peak	P
2	2414.672	69.96	-31.43	38.53	68.20	-29.67	peak	P
3	3828.900	72.19	-31.50	40.69	68.20	-27.51	peak	P
4	6313.006	76.49	-31.83	44.66	68.20	-23.54	peak	P
5	8840.472	78.04	-34.01	44.03	68.20	-24.17	peak	P
6 *	12596.397	83.44	-33.86	49.58	68.20	-18.62	peak	P

Above 1G (1GHz~40GHz)	Test mode:11a	Test Channel:157
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1350.667	67.57	-29.89	37.68	68.20	-30.52	peak	P
2	2050.856	71.54	-30.33	41.21	68.20	-26.99	peak	P
3	2934.871	72.28	-30.97	41.31	68.20	-26.89	peak	P
4	4254.921	74.18	-31.65	42.53	68.20	-25.67	peak	P
5	7695.244	80.05	-33.76	46.29	68.20	-21.91	peak	P
6 *	11368.003	83.52	-34.67	48.85	68.20	-19.35	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1317.888	68.27	-29.78	38.49	68.20	-29.71	peak	P
2	1877.800	69.68	-30.17	39.51	68.20	-28.69	peak	P
3	2774.030	72.27	-31.13	41.14	68.20	-27.06	peak	P
4	3779.422	75.30	-31.47	43.83	68.20	-24.37	peak	P
5	4633.638	76.55	-31.68	44.87	68.20	-23.33	peak	P
6 *	7695.244	81.05	-33.76	47.29	68.20	-20.91	peak	P

Above 1G (1GHz~40GHz)	Test mode:11a	Test Channel:165
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1213.677	73.99	-29.43	44.56	68.20	-23.64	peak	P
2	1966.680	72.63	-30.12	42.51	68.20	-25.69	peak	P
3	3038.451	75.34	-30.93	44.41	68.20	-23.79	peak	P
4	4424.230	76.99	-31.68	45.31	68.20	-22.89	peak	P
5	8489.882	81.99	-34.55	47.44	68.20	-20.76	peak	P
6 *	12669.425	86.69	-33.86	52.83	68.20	-15.37	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1234.909	69.83	-29.50	40.33	68.20	-27.87	peak	P
2	1916.180	71.90	-30.15	41.75	68.20	-26.45	peak	P
3	2905.331	75.29	-30.99	44.30	68.20	-23.90	peak	P
4	3879.027	76.01	-31.53	44.48	68.20	-23.72	peak	P
5	6717.761	81.72	-32.47	49.25	68.20	-18.95	peak	P
6 *	11302.477	84.64	-34.67	49.97	68.20	-18.23	peak	P

Above 1G (1GHz~40GHz)	Test mode:11n 40	Test Channel:38
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1321.703	68.64	-29.79	38.85	68.20	-29.35	peak	P
2	2030.214	72.32	-30.24	42.08	68.20	-26.12	peak	P
3	2922.174	74.44	-30.98	43.46	68.20	-24.74	peak	P
4	4354.454	75.83	-31.67	44.16	68.20	-24.04	peak	P
5	6698.373	79.56	-32.41	47.15	68.20	-21.05	peak	P
6 *	11028.179	84.07	-34.69	49.38	68.20	-18.82	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1133.977	70.34	-29.16	41.18	68.20	-27.02	peak	P
2	1826.940	69.73	-30.20	39.53	68.20	-28.67	peak	P
3	2599.367	72.59	-31.30	41.29	68.20	-26.91	peak	P
4	3790.361	76.34	-31.47	44.87	68.20	-23.33	peak	P
5	7242.052	82.05	-33.27	48.78	68.20	-19.42	peak	P
6 *	11650.753	85.71	-34.49	51.22	68.20	-16.98	peak	P

Above 1G (1GHz~40GHz)	Test mode:11n 40	Test Channel:46
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1222.479	70.76	-29.45	41.31	68.20	-26.89	peak	P
2	1826.940	70.23	-30.20	40.03	68.20	-28.17	peak	P
3	2786.083	73.22	-31.11	42.11	68.20	-26.09	peak	P
4	4039.212	76.94	-31.61	45.33	68.20	-22.87	peak	P
5	6786.065	79.71	-32.65	47.06	68.20	-21.14	peak	P
6 *	12614.615	84.27	-33.86	50.41	68.20	-17.79	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1165.546	71.82	-29.26	42.56	68.20	-25.64	peak	P
2	1966.680	73.44	-30.12	43.32	68.20	-24.88	peak	P
3	2922.174	74.94	-30.98	43.96	68.20	-24.24	peak	P
4	4398.729	76.86	-31.68	45.18	68.20	-23.02	peak	P
5	6322.136	80.03	-31.83	48.20	68.20	-20.00	peak	P
6 *	9571.841	85.12	-33.06	52.06	68.20	-16.14	peak	P

Above 1G (1GHz~40GHz)	Test mode:11n 40	Test Channel:151
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1184.223	70.86	-29.33	41.53	68.20	-26.67	peak	P
2	1891.418	72.90	-30.17	42.73	68.20	-25.47	peak	P
3	2930.633	74.93	-30.97	43.96	68.20	-24.24	peak	P
4	4354.454	76.33	-31.67	44.66	68.20	-23.54	peak	P
5	9073.460	81.44	-33.62	47.82	68.20	-20.38	peak	P
6 *	11633.928	83.61	-34.50	49.11	68.20	-19.09	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1222.479	69.76	-29.45	40.31	68.20	-27.89	peak	P
2	1966.680	71.44	-30.12	41.32	68.20	-26.88	peak	P
3	3556.842	76.01	-31.33	44.68	68.20	-23.52	peak	P
4	6027.703	78.16	-31.71	46.45	68.20	-21.75	peak	P
5	8613.467	82.12	-34.37	47.75	68.20	-20.45	peak	P
6 *	12326.274	84.51	-33.93	50.58	68.20	-17.62	peak	P

Above 1G (1GHz~40GHz)	Test mode:11n 40	Test Channel:159
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1222.479	69.26	-29.45	39.81	68.20	-28.39	peak	P
2	1826.940	68.23	-30.20	38.03	68.20	-30.17	peak	P
3	2822.558	71.20	-31.08	40.12	68.20	-28.08	peak	P
4	4354.454	75.83	-31.67	44.16	68.20	-24.04	peak	P
5	6358.789	78.86	-31.84	47.02	68.20	-21.18	peak	P
6 *	11650.753	83.21	-34.49	48.72	68.20	-19.48	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1122.563	73.50	-29.11	44.39	68.20	-23.81	peak	P
2	1826.940	69.73	-30.20	39.53	68.20	-28.67	peak	P
3	3556.842	77.51	-31.33	46.18	68.20	-22.02	peak	P
4	6498.138	79.92	-31.90	48.02	68.20	-20.18	peak	P
5	10776.101	83.78	-34.95	48.83	68.20	-19.37	peak	P
6 *	12909.701	86.45	-33.89	52.56	68.20	-15.64	peak	P

Above 1G (1GHz~40GHz)	Test mode:11ac 80	Test Channel:42
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1390.276	67.94	-30.03	37.91	68.20	-30.29	peak	P
2	2110.999	71.80	-30.61	41.19	68.20	-27.01	peak	P
3	4580.374	76.08	-31.68	44.40	68.20	-23.80	peak	P
4	7628.806	81.15	-33.62	47.53	68.20	-20.67	peak	P
5	9544.214	83.40	-32.98	50.42	68.20	-17.78	peak	P
6 *	12909.701	86.21	-33.89	52.32	68.20	-15.88	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1234.909	69.95	-29.50	40.45	68.20	-27.75	peak	P
2	2036.090	72.68	-30.27	42.41	68.20	-25.79	peak	P
3	2892.762	76.40	-31.01	45.39	68.20	-22.81	peak	P
4	4417.841	76.20	-31.68	44.52	68.20	-23.68	peak	P
5	6679.040	81.47	-32.36	49.11	68.20	-19.09	peak	P
6 *	11667.603	86.85	-34.47	52.38	68.20	-15.82	peak	P

Above 1G (1GHz~40GHz)	Test mode:11ac 80	Test Channel:155
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1119.324	71.73	-29.10	42.63	68.20	-25.57	peak	P
2	1883.236	72.30	-30.17	42.13	68.20	-26.07	peak	P
3	3608.619	75.57	-31.37	44.20	68.20	-24.00	peak	P
4	6659.763	80.82	-32.31	48.51	68.20	-19.69	peak	P
5	9021.160	82.03	-33.71	48.32	68.20	-19.88	peak	P
6 *	12379.831	84.68	-33.91	50.77	68.20	-17.43	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1038.290	73.94	-28.83	45.11	68.20	-23.09	peak	P
2	2012.686	71.43	-30.15	41.28	68.20	-26.92	peak	P
3	3603.407	76.39	-31.36	45.03	68.20	-23.17	peak	P
4	6395.654	80.36	-31.86	48.50	68.20	-19.70	peak	P
5	9339.543	83.62	-33.15	50.47	68.20	-17.73	peak	P
6 *	11667.603	86.35	-34.47	51.88	68.20	-16.32	peak	P

4) Band Edge

Above 1G (1GHz~40GHz)	Test mode:11a 20	Test Channel:36
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5144.000	84.29	-32.00	52.29	68.20	-15.91	peak	P
2	5150.000	82.37	-32.02	50.35	68.20	-17.85	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5143.300	82.57	-32.00	50.57	68.20	-17.63	peak	P
2 *	5150.000	83.87	-32.02	51.85	68.20	-16.35	peak	P

Above 1G (1GHz~40GHz)	Test mode:11a 20	Test Channel:48
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.000	43.56	0.87	44.43	68.20	-23.77	peak	P
2 *	5460.000	44.17	0.67	44.84	68.20	-23.36	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.000	46.30	-0.87	45.43	68.20	-22.77	peak	P
2 *	5460.000	47.45	-1.11	46.34	68.20	-21.86	peak	P

Above 1G (1GHz~40GHz)	Test mode:11a 20	Test Channel:149
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5671.505	77.48	-32.55	44.93	84.33	-39.40	peak	P
2	5712.590	87.29	-32.45	54.84	108.88	-54.04	peak	P
3	5722.820	97.19	-32.42	64.77	117.23	-52.46	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5693.230	78.94	-32.50	46.44	100.56	-54.12	peak	P
2	5712.590	88.79	-32.45	56.34	108.88	-52.54	peak	P
3 *	5724.140	102.37	-32.42	69.95	120.24	-50.29	peak	P

Above 1G (1GHz~40GHz)	Test mode:11a 20	Test Channel:165
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5859.300	82.42	-32.07	50.35	109.68	-59.33	peak	P
2	5880.700	79.01	-32.01	47.00	101.32	-54.32	peak	P
3 *	5955.900	78.25	-31.81	46.44	68.20	-21.76	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5851.500	91.97	-32.09	59.88	118.78	-58.90	peak	P
2	5863.300	83.26	-32.06	51.20	108.64	-57.44	peak	P
3 *	5897.800	79.70	-31.97	47.73	88.51	-40.78	peak	P

Above 1G (1GHz~40GHz)	Test mode:11n 40	Test Channel:38
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5146.500	84.65	-32.01	52.64	68.20	-15.56	peak	P
2 *	5150.000	85.21	-32.02	53.19	68.20	-15.01	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5122.100	82.59	-31.95	50.64	68.20	-17.56	peak	P
2 *	5150.000	84.21	-32.02	52.19	68.20	-16.01	peak	P

Above 1G (1GHz~40GHz)	Test mode:11n 40	Test Channel:46
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HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.000	40.42	0.87	41.29	68.20	-26.91	peak	P
2 *	5460.000	42.29	0.67	42.96	68.20	-25.24	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.000	44.66	-0.87	43.79	68.20	-24.41	peak	P
2 *	5460.000	46.07	-1.11	44.96	68.20	-23.24	peak	P

Above 1G (1GHz~40GHz)

Test mode:11n 40

Test Channel:151

HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5683.495	85.78	-32.52	53.26	93.29	-40.03	peak	P
2	5710.060	100.37	-32.45	67.92	108.22	-40.30	peak	P
3	5721.830	104.56	-32.42	72.14	114.97	-42.83	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5678.765	81.74	-32.54	49.20	89.76	-40.56	peak	P
2	5713.580	99.58	-32.44	67.14	109.13	-41.99	peak	P
3	5721.830	102.06	-32.42	69.64	114.97	-45.33	peak	P

Above 1G (1GHz~40GHz)

Test mode:11n 40

Test Channel:159

HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5853.100	90.67	-32.08	58.59	115.13	-56.54	peak	P
2	5864.300	83.63	-32.05	51.58	108.38	-56.80	peak	P
3 *	5901.900	74.96	-31.95	43.01	85.44	-42.43	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5852.200	88.99	-32.08	56.91	117.18	-60.27	peak	P
2	5870.200	83.08	-32.04	51.04	106.85	-55.81	peak	P
3 *	5896.600	77.25	-31.97	45.28	89.40	-44.12	peak	P

Above 1G (1GHz~40GHz)

Test mode:11ac 80

Test Channel:42

HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5139.200	84.93	-31.99	52.94	68.20	-15.26	peak	P
2 *	5150.000	85.12	-32.02	53.10	68.20	-15.10	peak	P

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5350.000	44.12	0.87	44.99	68.20	-23.21	peak	P
2	5460.000	41.39	0.67	42.06	68.20	-26.14	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5124.600	84.33	-31.95	52.38	68.20	-15.82	peak	P
2	5150.000	84.12	-32.02	52.10	68.20	-16.10	peak	P

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5350.000	44.86	-0.87	43.99	68.20	-24.21	peak	P
2	5460.000	42.67	-1.11	41.56	68.20	-26.64	peak	P

Above 1G (1GHz~40GHz)

Test mode:11ac 80

Test Channel:155

HORIZONTAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5679.480	98.26	-32.53	65.73	90.29	-24.56	peak	P
2	5709.125	99.44	-32.46	66.98	107.97	-40.99	peak	P
3	5722.820	98.41	-32.42	65.99	117.23	-51.24	peak	P

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5853.900	94.03	-32.08	61.95	113.31	-51.36	peak	P
2	5865.000	94.84	-32.05	62.79	108.20	-45.41	peak	P
3	5897.700	78.27	-31.97	46.30	88.58	-42.28	peak	P
4 *	5958.500	76.23	-31.81	44.42	68.20	-23.78	peak	P

VERTICAL

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5672.880	85.13	-32.55	52.58	85.36	-32.78	peak	P
2	5709.345	91.87	-32.46	59.41	108.03	-48.62	peak	P
3	5721.390	94.03	-32.42	61.61	113.97	-52.36	peak	P

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5852.200	98.30	-32.08	66.22	117.18	-50.96	peak	P
2	5866.500	94.36	-32.05	62.31	107.81	-45.50	peak	P
3	5885.300	85.56	-32.00	53.56	97.87	-44.31	peak	P
4 *	5945.800	77.63	-31.84	45.79	68.20	-22.41	peak	P

3.3 Spectrum Bandwidth

3.3.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
15.407(e)	26 dB Bandwidth	-	5470-5725
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

3.3.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Type-C Cable	AWM	E101344	0.9m, No Shielding
2	Record PC	Lenovo	M4500T	NA

3.3.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

a) The EUT shall be connected to the spectrum analyser, and the spectrum analyser is set as follow:

For 26 dB Bandwidth

Centre Frequency	The centre frequency of the channel under test
RBW	$\geq 1\% \times \text{Nomina Channel Bandwidth}$
VBW	$\geq 3 \times \text{RBW}$
Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

For 6 dB Bandwidth

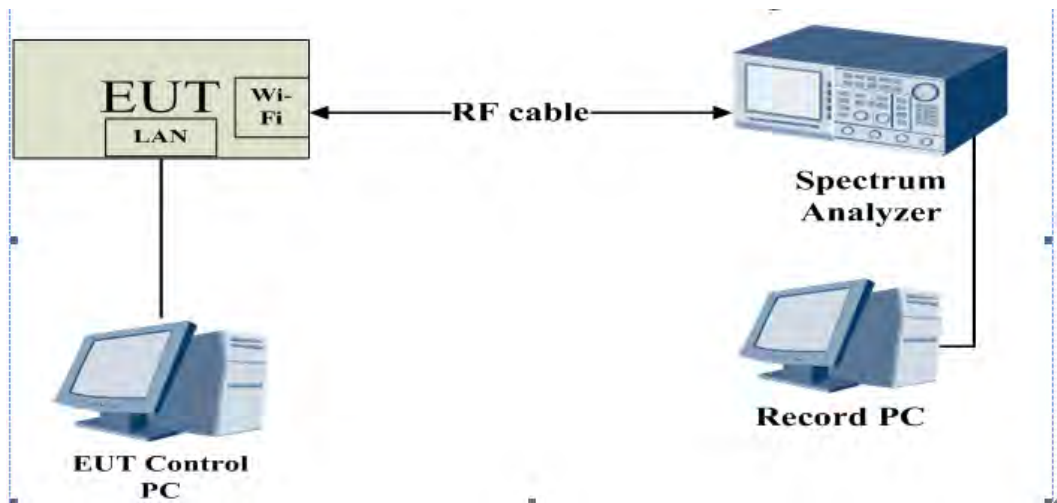
Centre Frequency	The centre frequency of the channel under test
RBW	100 kHz
VBW	300 kHz
Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold

Sweep Time

Auto Couple

- b) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.
- c) Use the -26/-6dB bandwidth function of the spectrum analyser to measure the -26/-6dB Bandwidth of the EUT. This value shall be recorded.
- d) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

3.3.4 Test Setup



3.3.5 Test Result

3.3.5.1 26 dB Bandwidth

Please Refer to Appendix for Details.

3.3.5.2 6 dB Bandwidth

Please Refer to Appendix for Details.

3.3.5.3 Occupied channel bandwidth

Please Refer to Appendix for Details.

3.4 Conducted Output Power

3.4.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Conducted Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (24 dBm)	5150-5250
		250 mW (24 dBm)	5250-5350
		250 mW (24 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

a. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

b. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

3.4.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4500T	NA
2	Control PC	Lenovo	M4500T	NA

3.4.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

a) The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.

b) Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

3.4.4 Test Setup



3.4.5 The Result

Please Refer to Appendix for Details.

3.5 Power Spectral Density

3.5.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	5725-5850

3.5.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4500T	NA
2	Control PC	Lenovo	M4500T	NA

3.5.3 Test Procedure

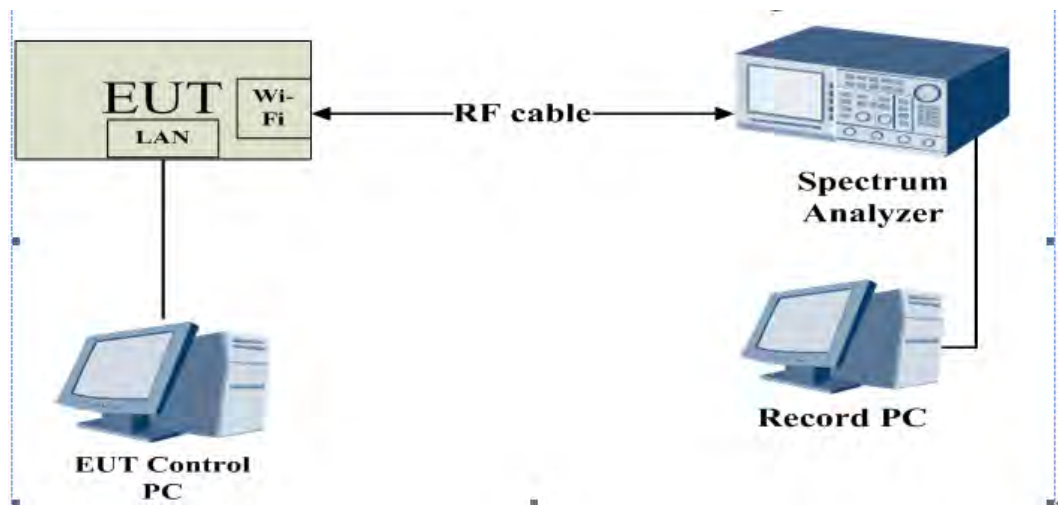
Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

- a) The EUT was directly connected to the spectrum analyzer and antenna output port as show in
b) the block diagram below. Spectrum analyser settings as following:

Centre Frequency	The centre frequency of the channel under test
RBW	= 1 MHz (Band1/2/3) = 500 KHz (Band4)
VBW	≥ 3 x RBW
Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	RMS
Trace Mode	Max Hold
Sweep Time	Auto Couple

- c) Wait for the trace to stabilize. Use the peak marker function to determine the maximum amplitude level within the RBW.
d) The value defined in step b shall be compared to the limits and be recorded .

3.5.4 Test Setup



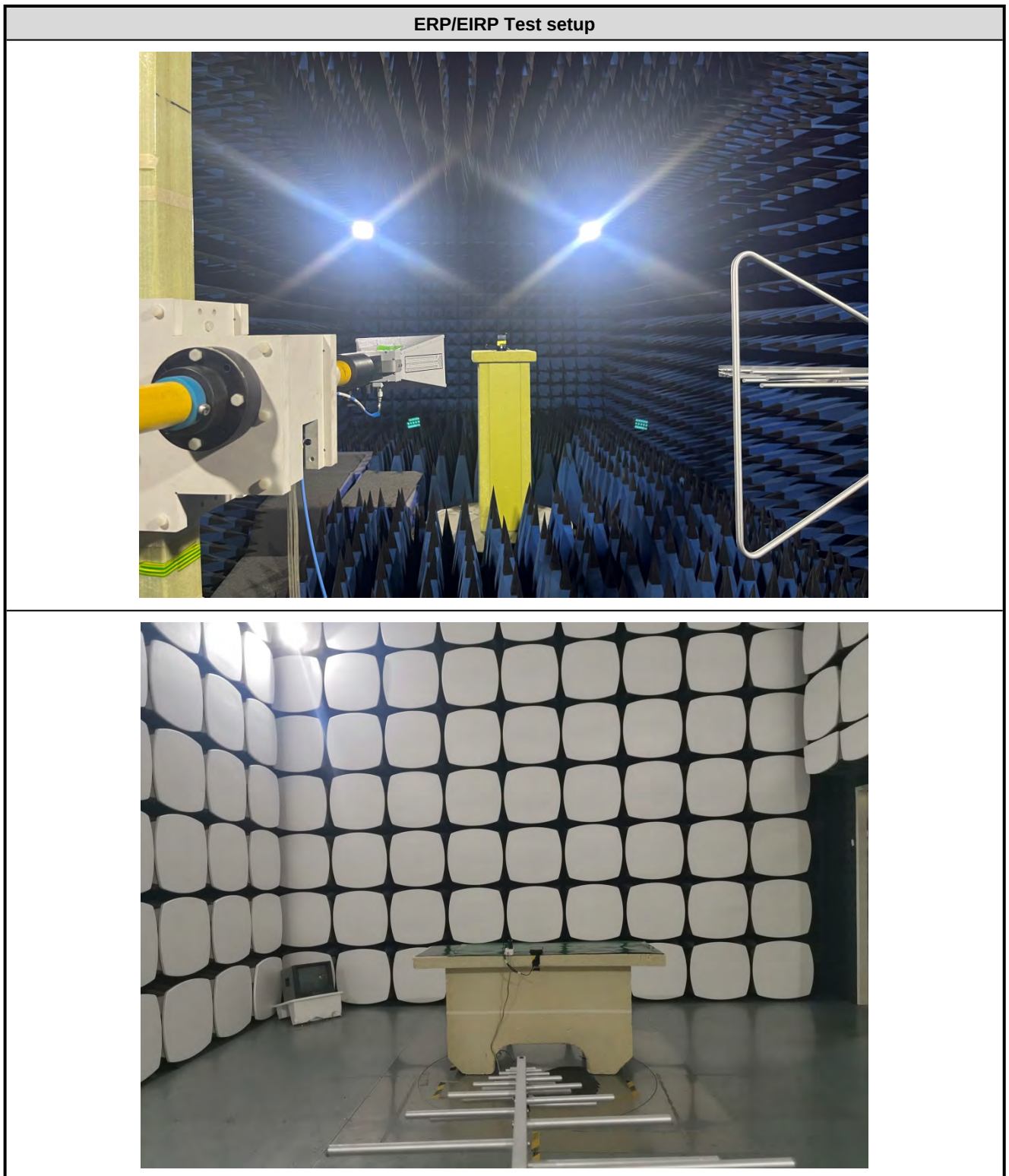
3.5.5 The Result

Please Refer to Appendix for Details.

4. Photographs of EUT

Refer to Report No: FCC2022-06453RF1 for EUT external and internal photos.

5. Photographs of Test Set-up



CE



Appendix

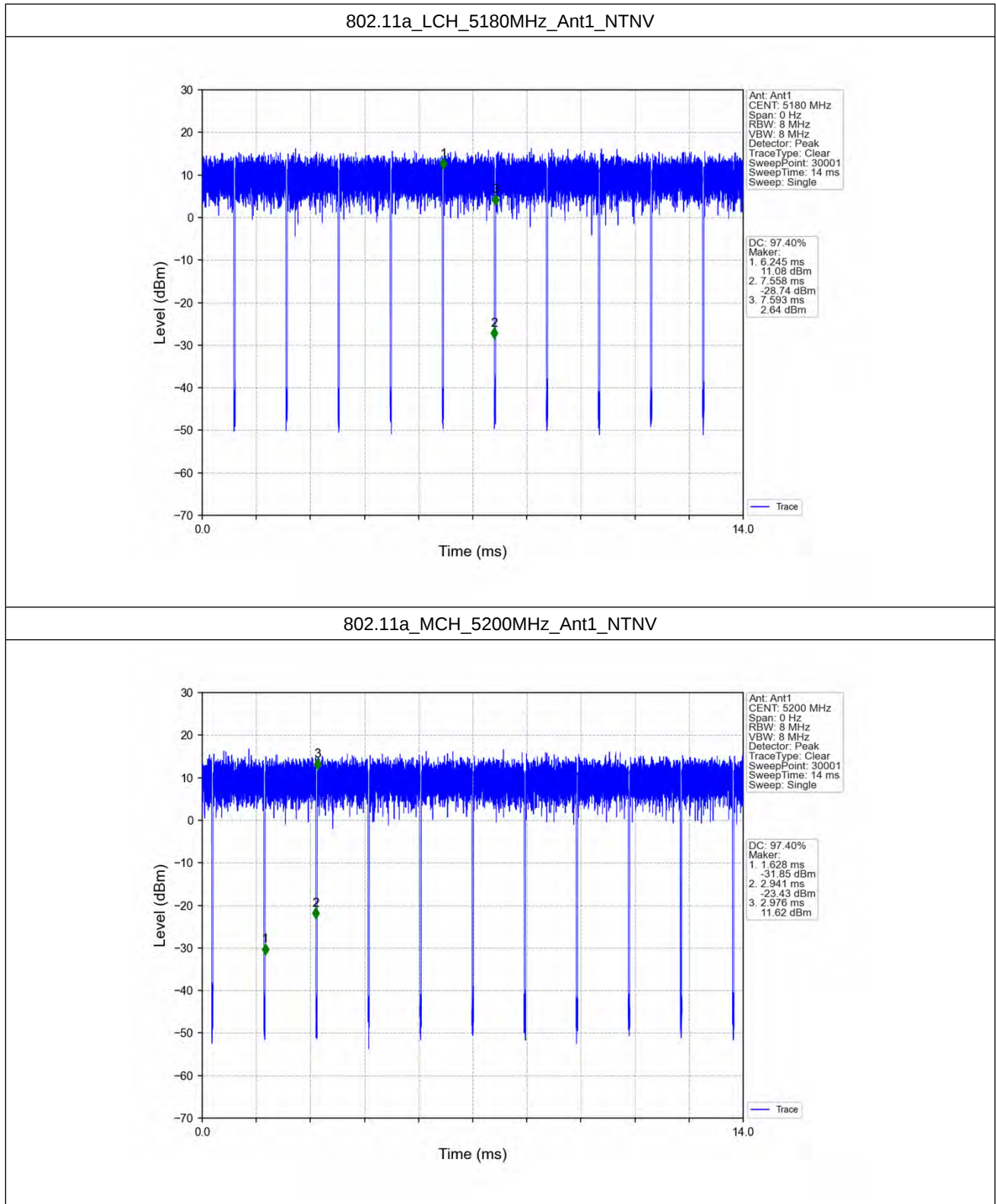
1. Duty Cycle

1.1 Ant1

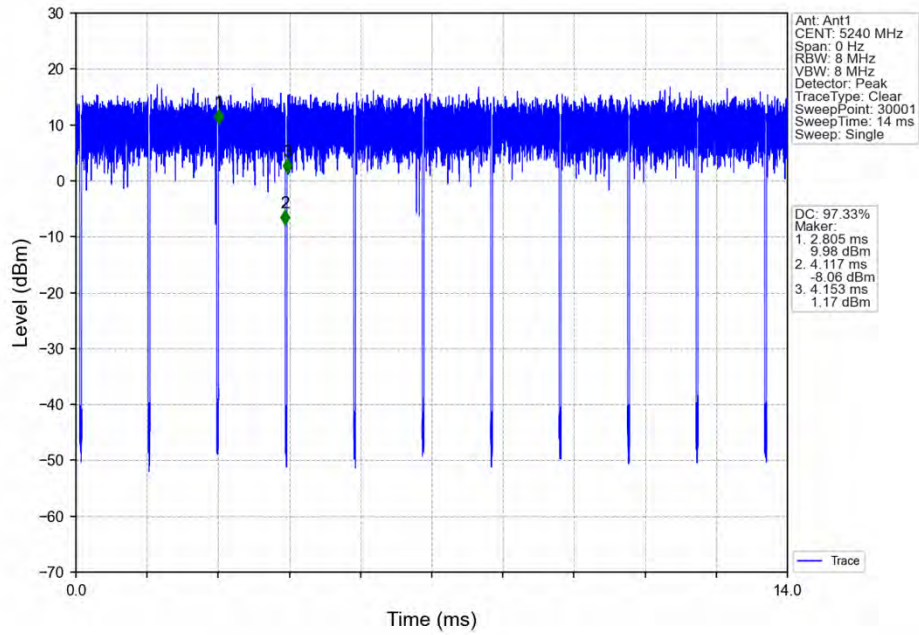
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.313	1.348	97.40	0.11	0.07
		5200	1.313	1.348	97.40	0.11	0.10
		5240	1.312	1.348	97.33	0.12	0.10
		5745	1.312	1.347	97.40	0.11	0.07
		5785	1.313	1.349	97.33	0.12	0.03
		5825	1.312	1.347	97.40	0.11	0.03
802.11n (HT20)	MIMO	5180	1.300	1.336	97.31	0.12	0.04
		5200	1.300	1.336	97.31	0.12	0.03
		5240	1.300	1.336	97.31	0.12	0.03
		5745	1.300	1.336	97.31	0.12	0.04
		5785	1.300	1.335	97.38	0.12	0.04
		5825	1.300	1.336	97.31	0.12	0.03
802.11n (HT40)	MIMO	5190	0.648	0.683	94.88	0.23	0.04
		5230	0.648	0.683	94.88	0.23	0.04
		5755	0.648	0.683	94.88	0.23	0.03
		5795	0.649	0.683	95.02	0.22	0.03
802.11ac (VHT20)	MIMO	5180	1.288	1.324	97.28	0.12	0.06
		5200	1.289	1.324	97.36	0.12	0.07
		5240	1.288	1.324	97.28	0.12	0.03
		5745	1.288	1.323	97.35	0.12	0.04
		5785	1.289	1.324	97.36	0.12	0.03
		5825	1.288	1.324	97.28	0.12	0.03
802.11ac (VHT40)	MIMO	5190	0.637	0.671	94.93	0.23	0.03
		5230	0.636	0.671	94.78	0.23	0.04
		5755	0.636	0.671	94.78	0.23	0.07
		5795	0.636	0.671	94.78	0.23	0.07
802.11ac (VHT80)	MIMO	5210	1.048	1.076	97.40	0.11	0.03
		5775	1.048	1.077	97.31	0.12	0.07

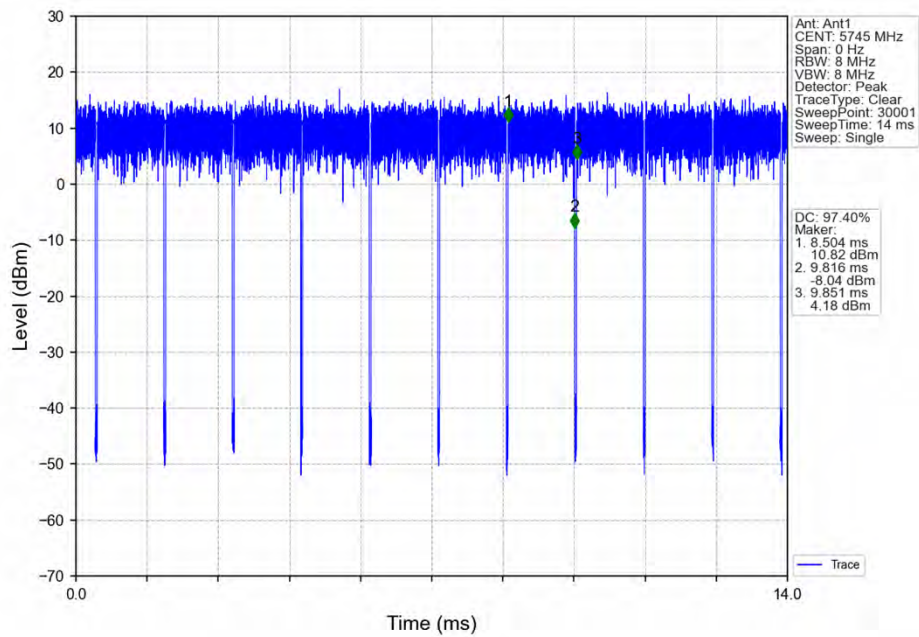
1.1.2 Test Graph



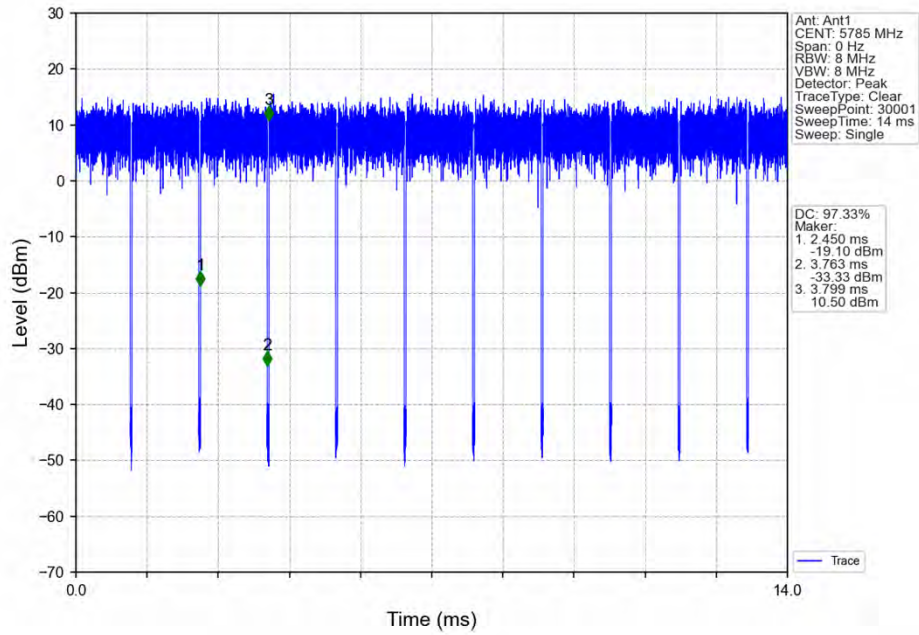
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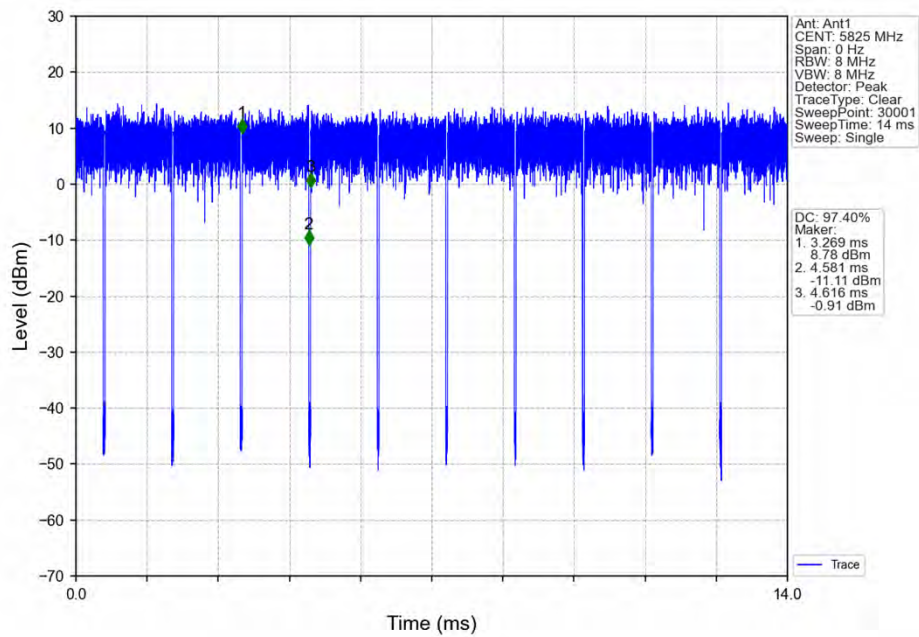
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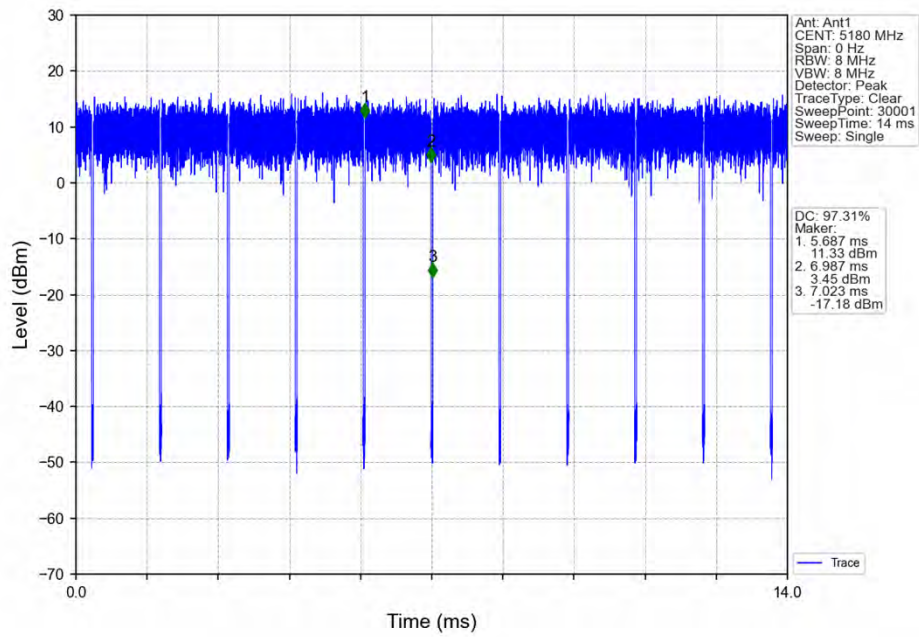
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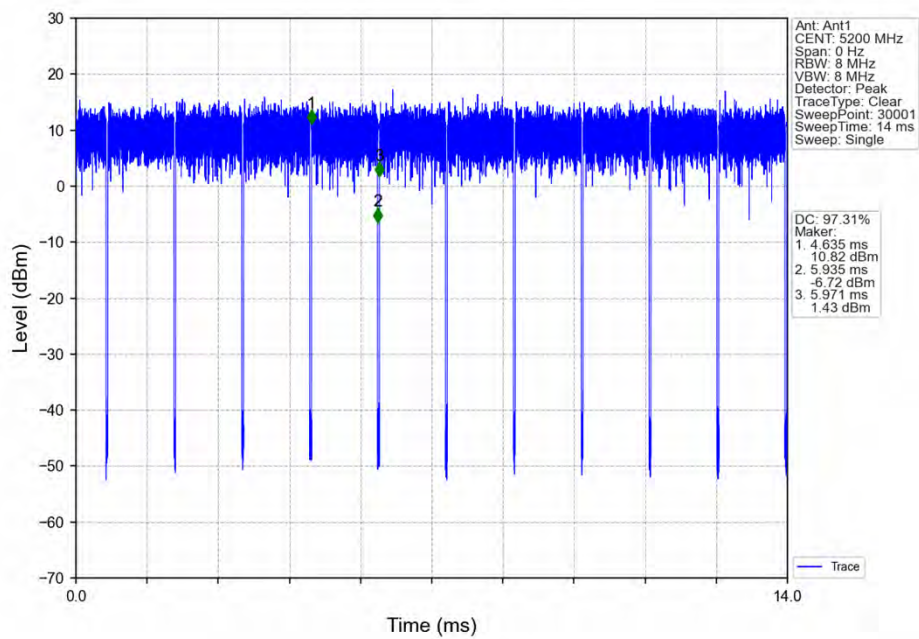
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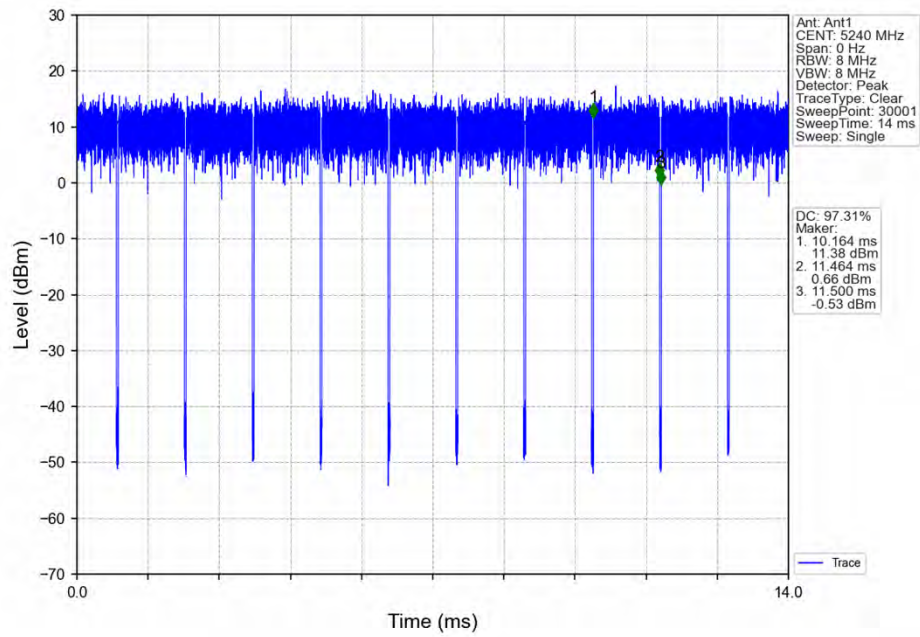
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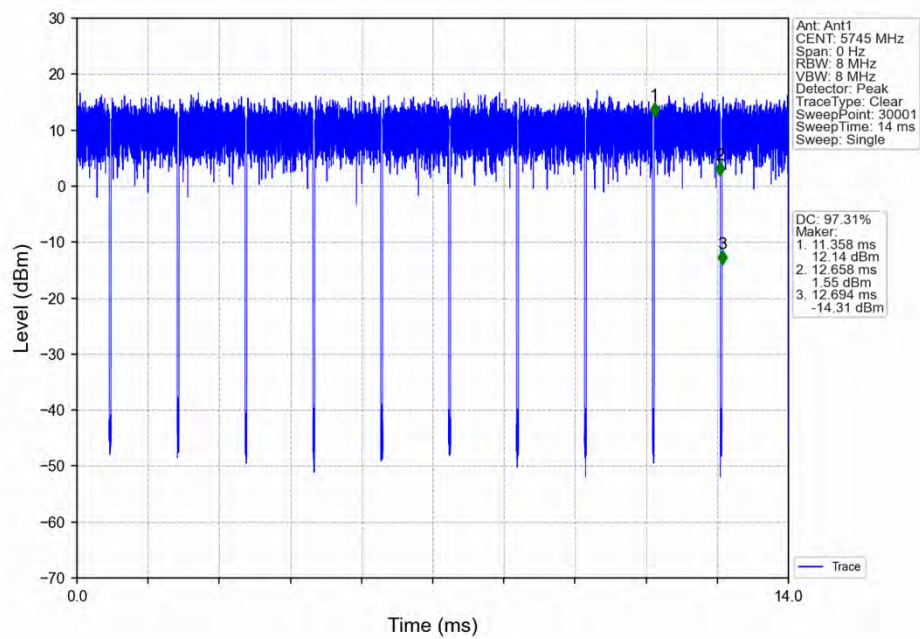
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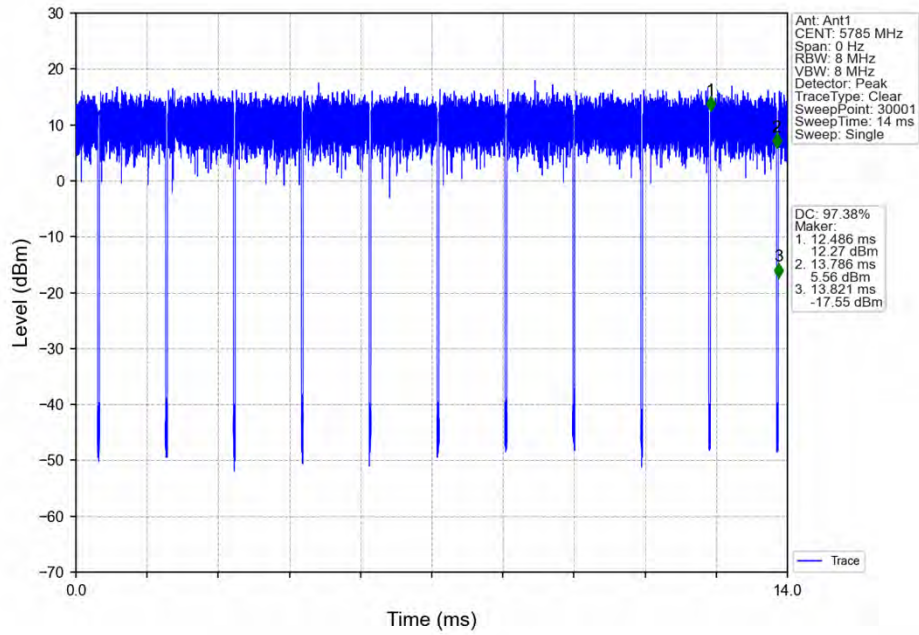
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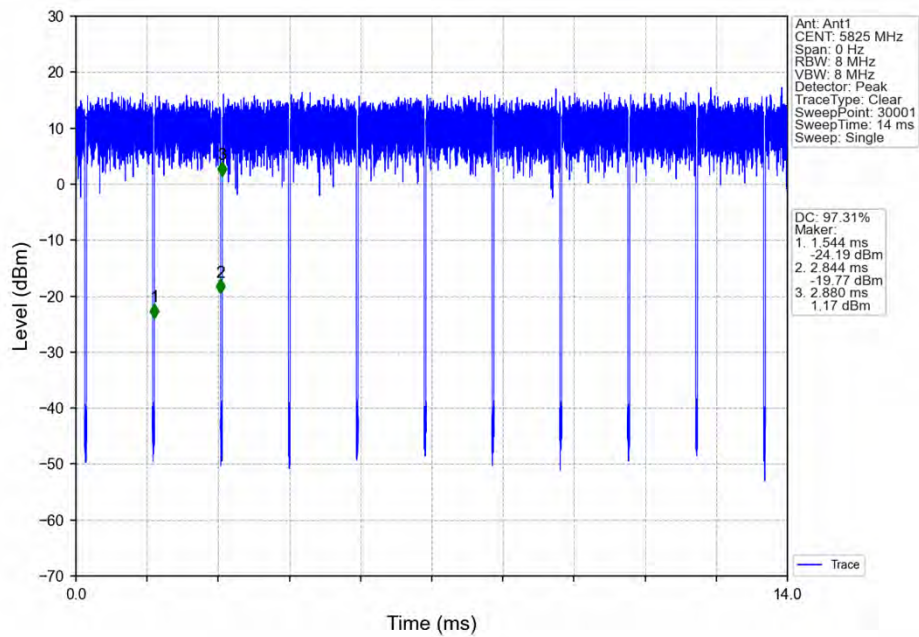
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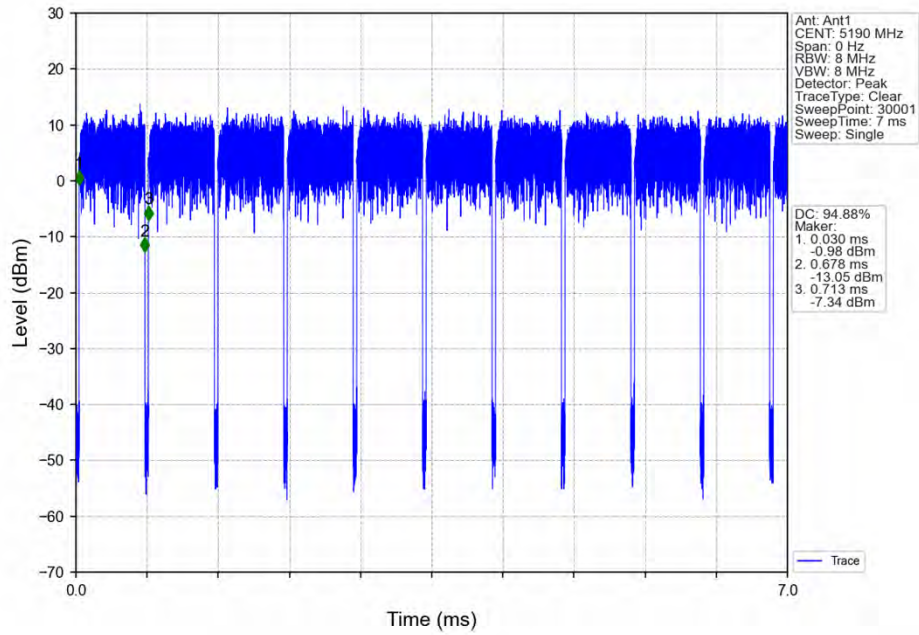
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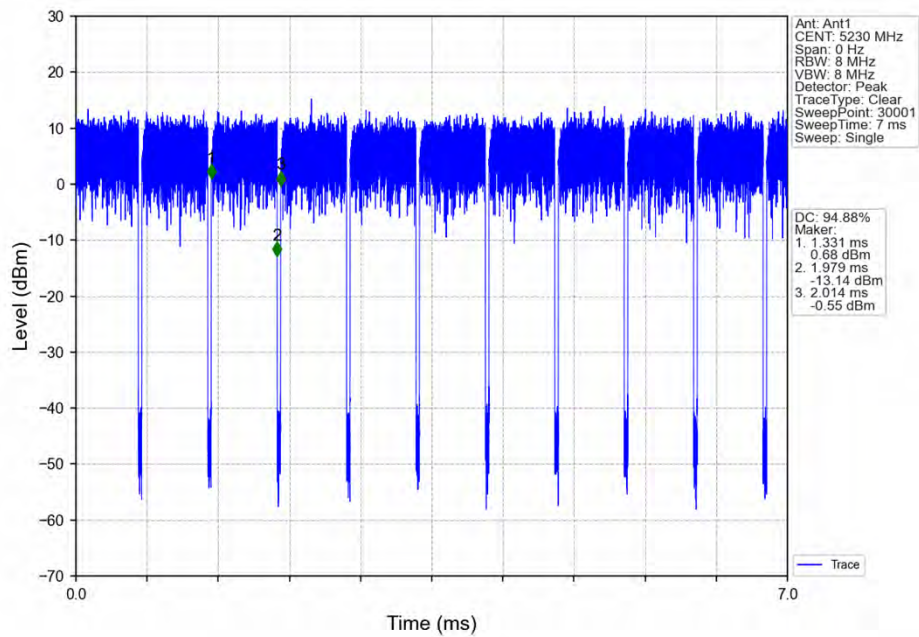
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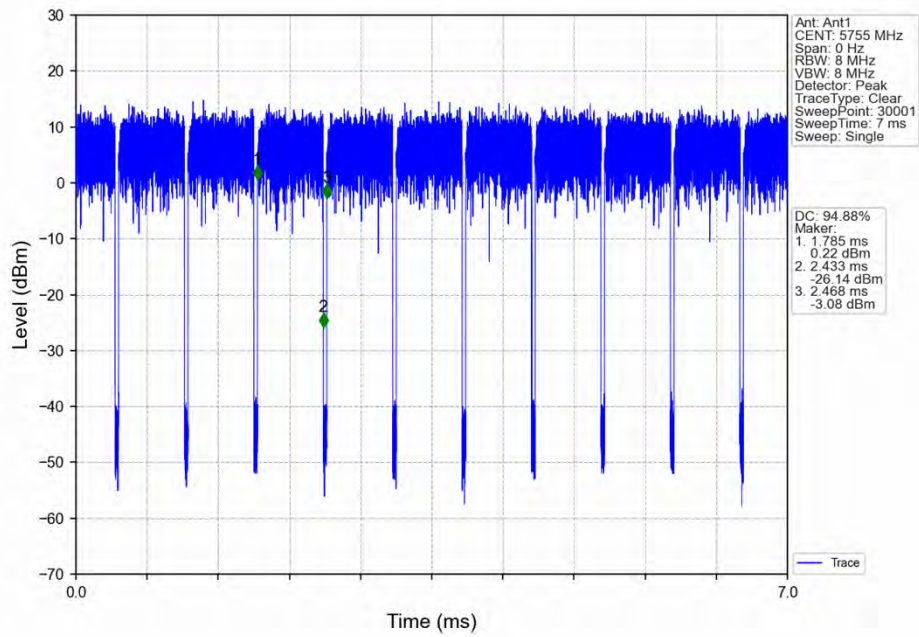
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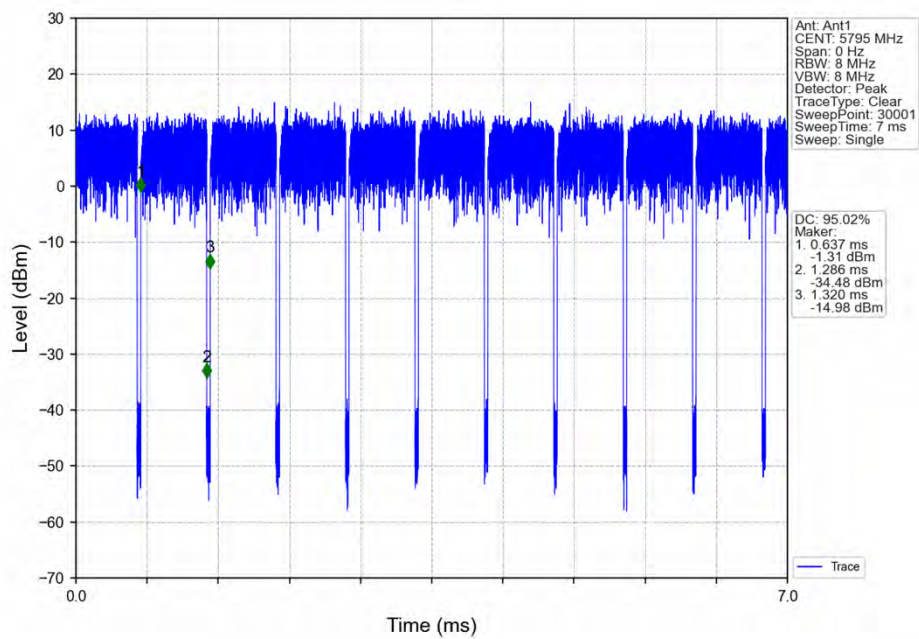
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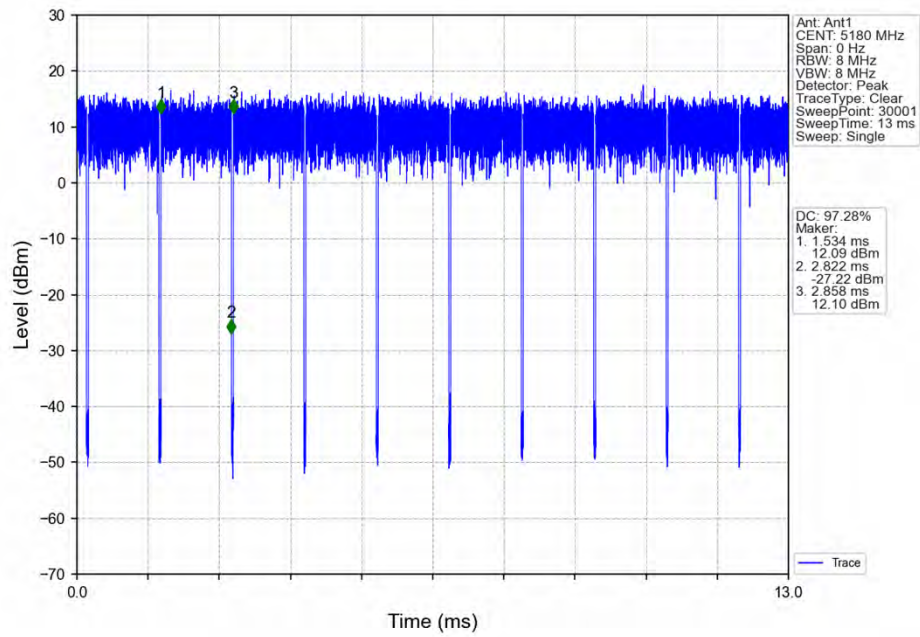
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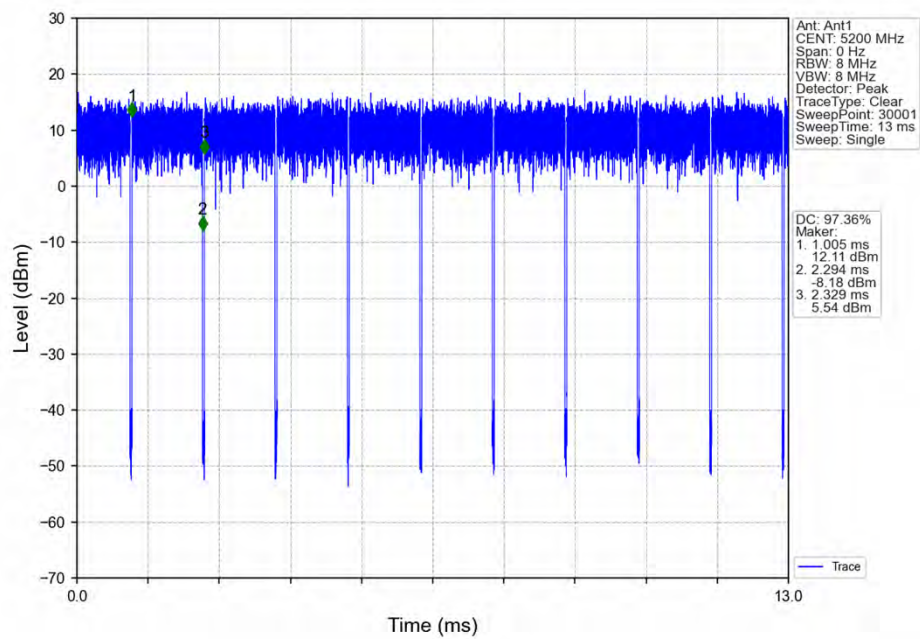
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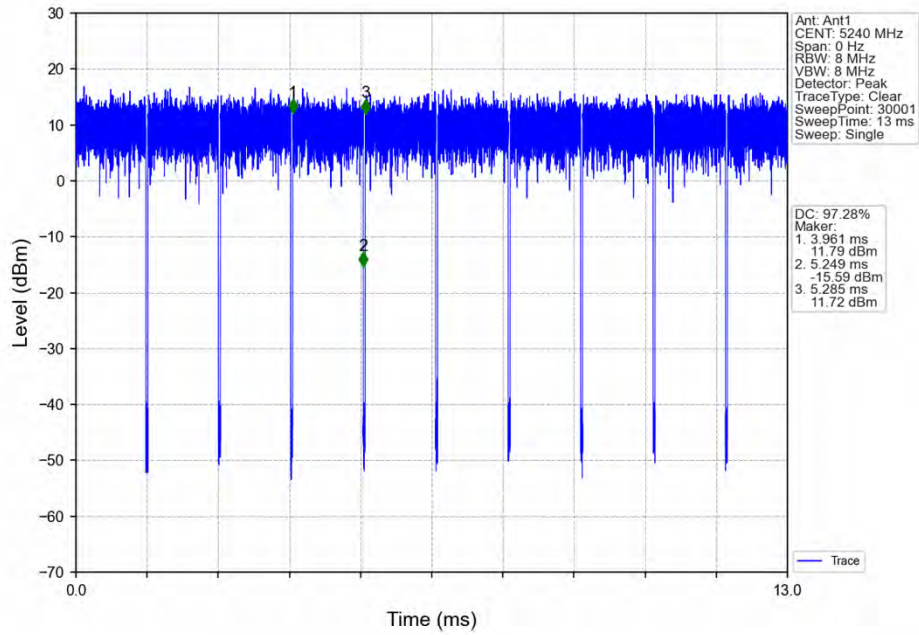
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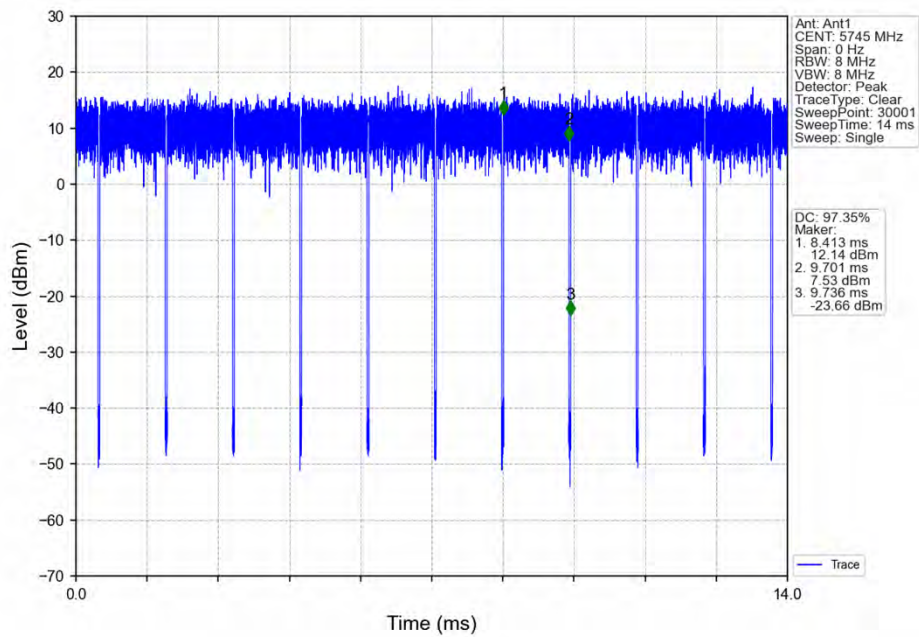
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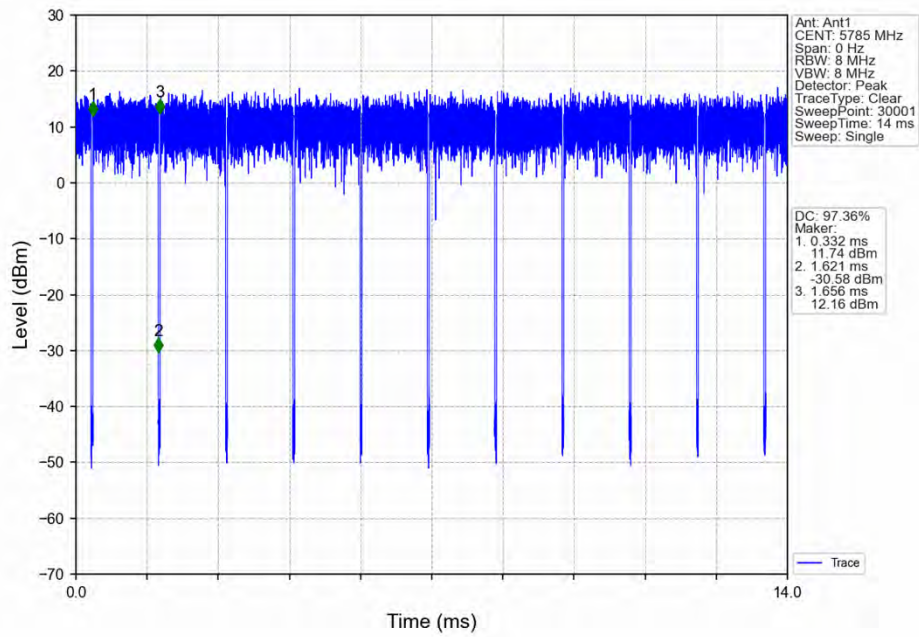
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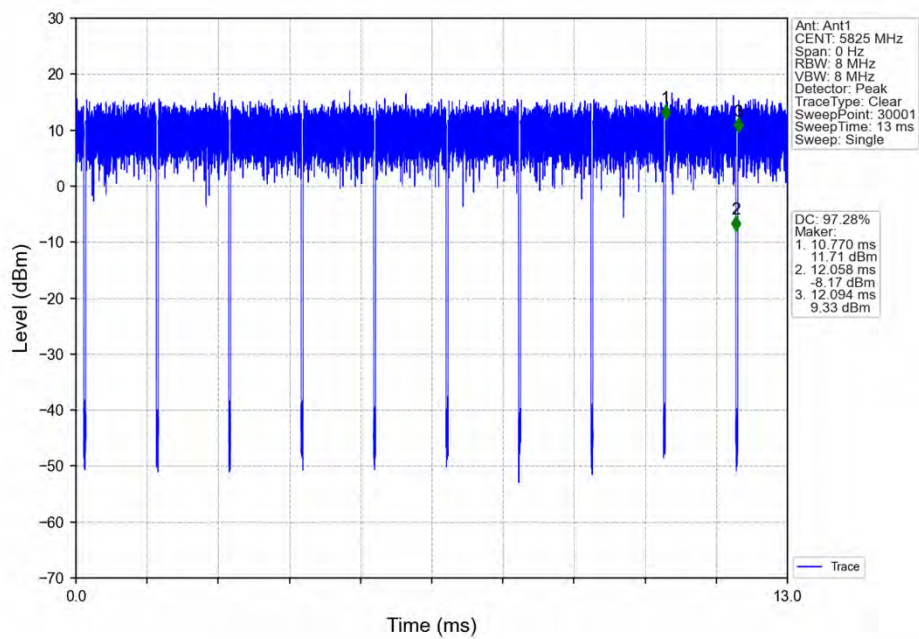
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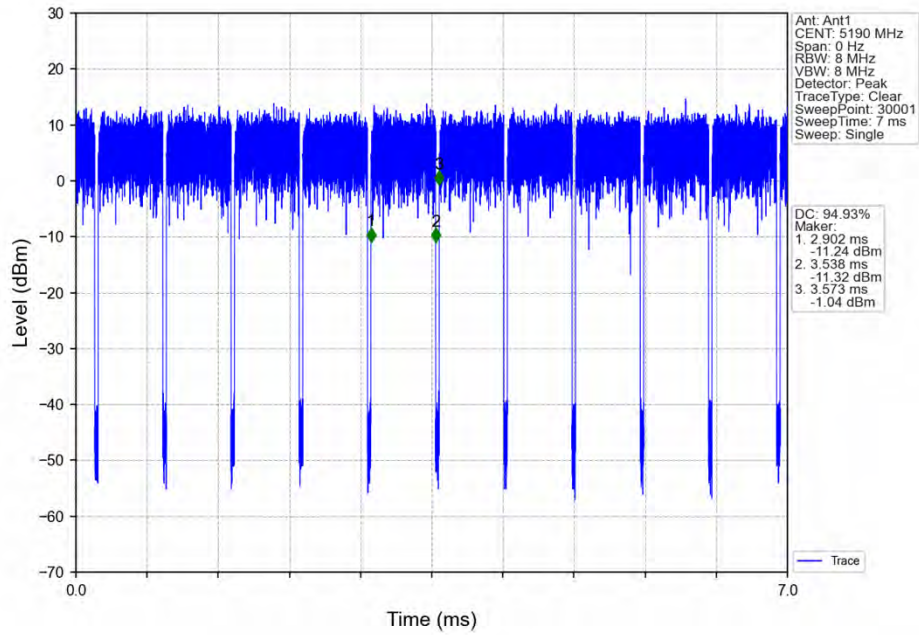
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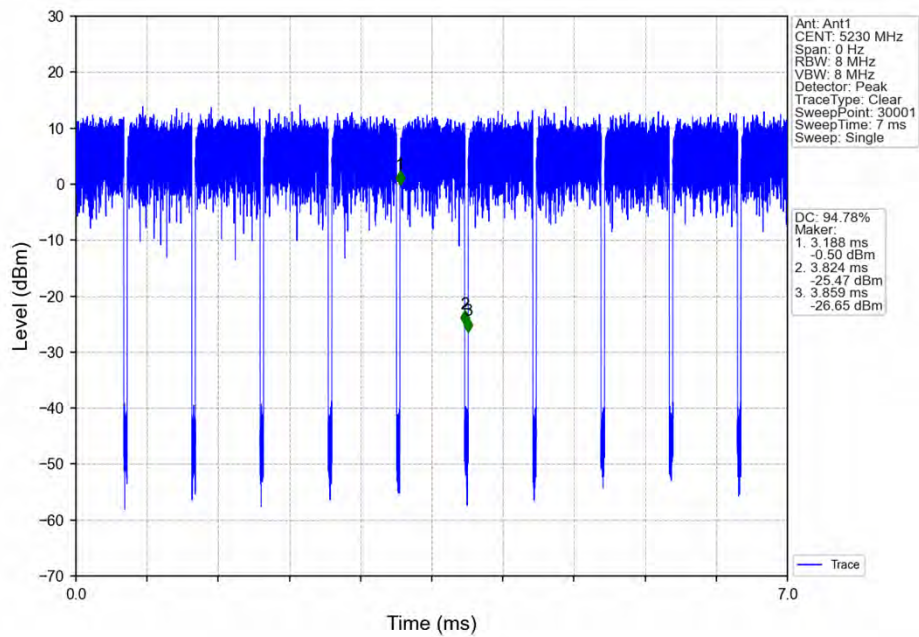
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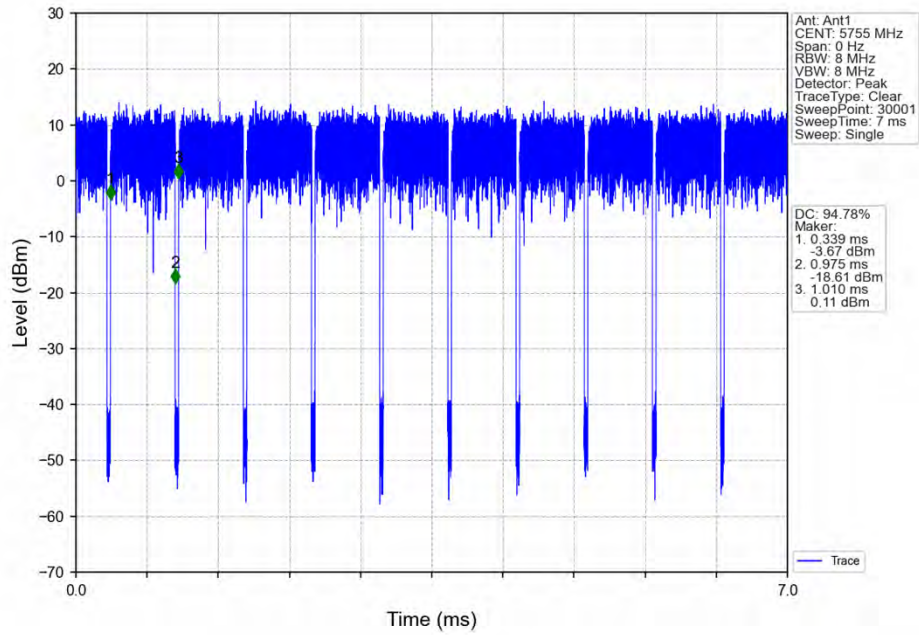
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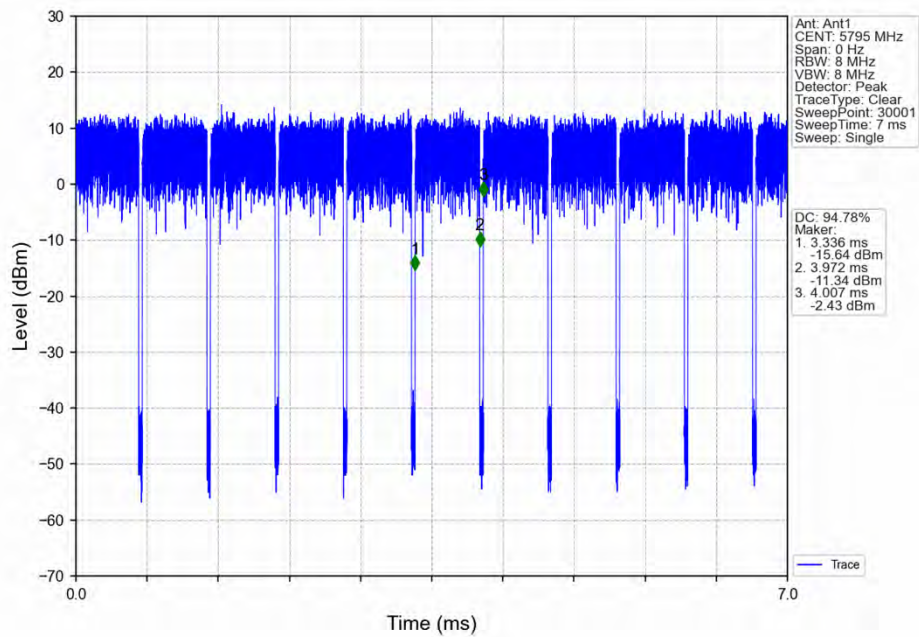
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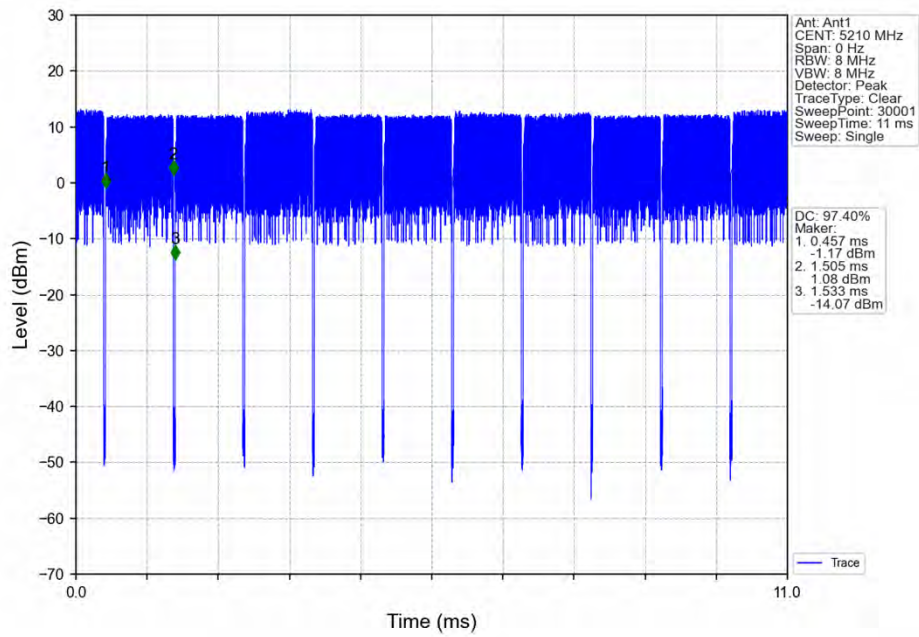
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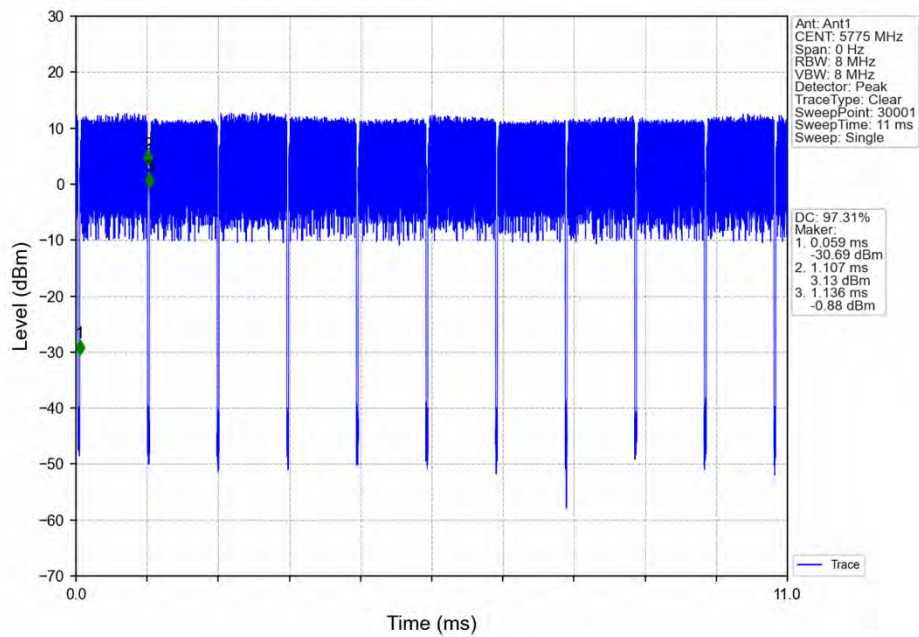
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



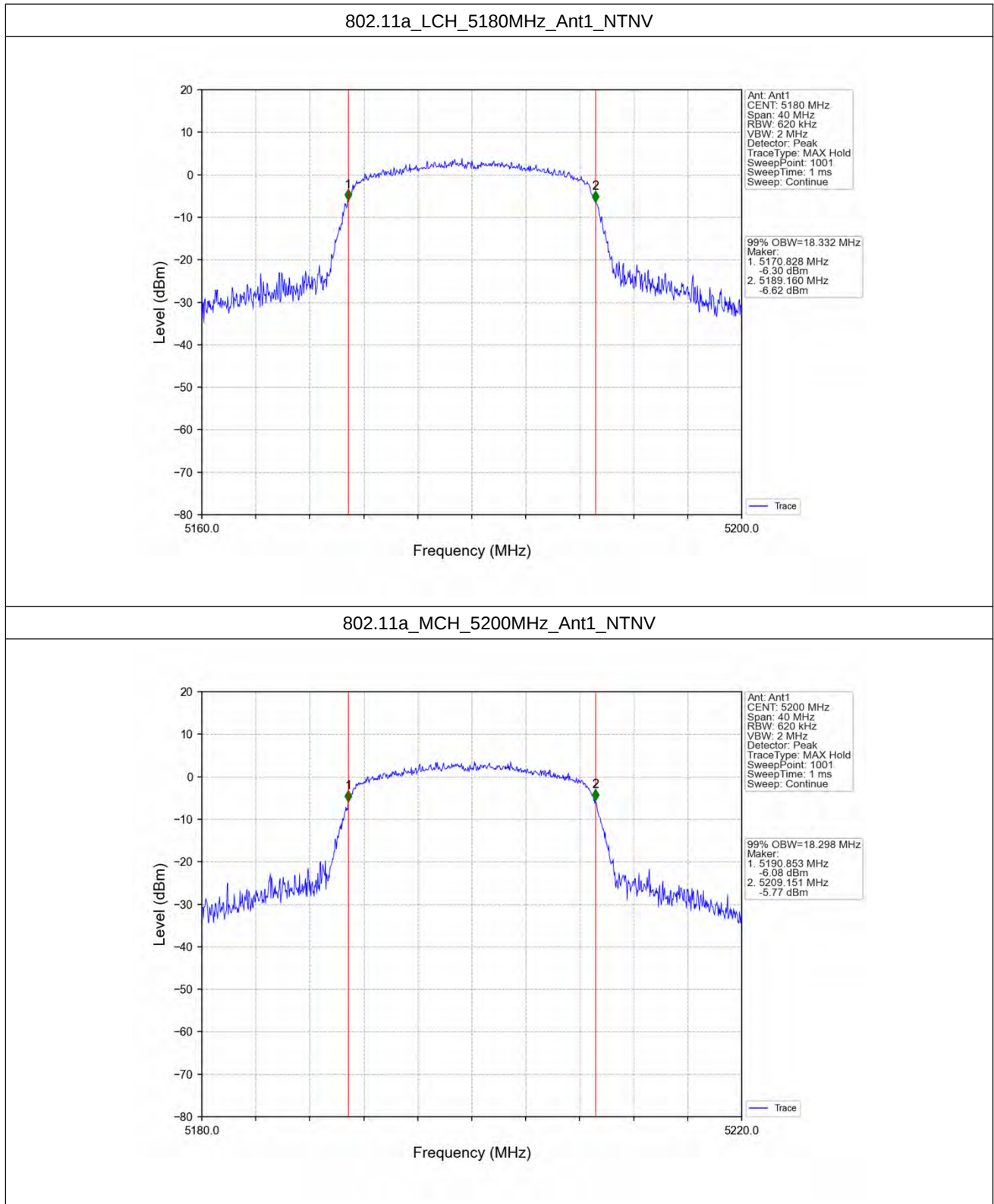
2. Bandwidth

2.1 OBW

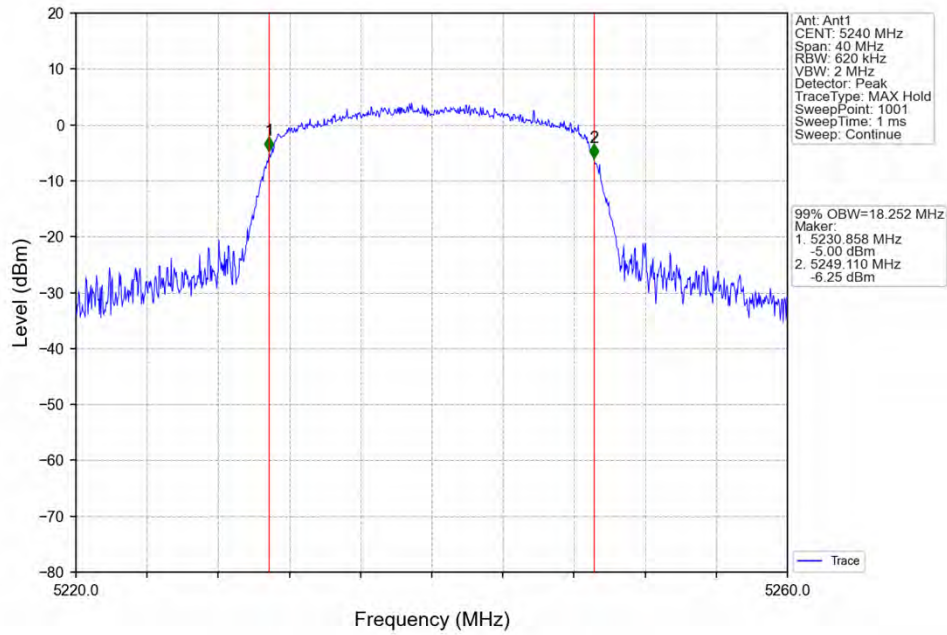
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	18.332	Pass
		5200	1	18.298	Pass
		5240	1	18.252	Pass
		5745	1	18.347	Pass
		5785	1	18.265	Pass
		5825	1	18.347	Pass
802.11n (HT20)	MIMO	5180	1	18.463	Pass
		5200	1	18.476	Pass
		5240	1	18.504	Pass
		5745	1	18.530	Pass
		5785	1	18.569	Pass
		5825	1	18.508	Pass
802.11n (HT40)	MIMO	5190	1	36.846	Pass
		5230	1	36.944	Pass
		5755	1	36.951	Pass
		5795	1	37.043	Pass
802.11ac (VHT20)	MIMO	5180	1	18.416	Pass
		5200	1	18.374	Pass
		5240	1	18.435	Pass
		5745	1	18.469	Pass
		5785	1	18.472	Pass
		5825	1	18.462	Pass
802.11ac (VHT40)	MIMO	5190	1	36.731	Pass
		5230	1	36.748	Pass
		5755	1	36.800	Pass
		5795	1	36.839	Pass
802.11ac (VHT80)	MIMO	5210	1	78.029	Pass
		5775	1	77.860	Pass

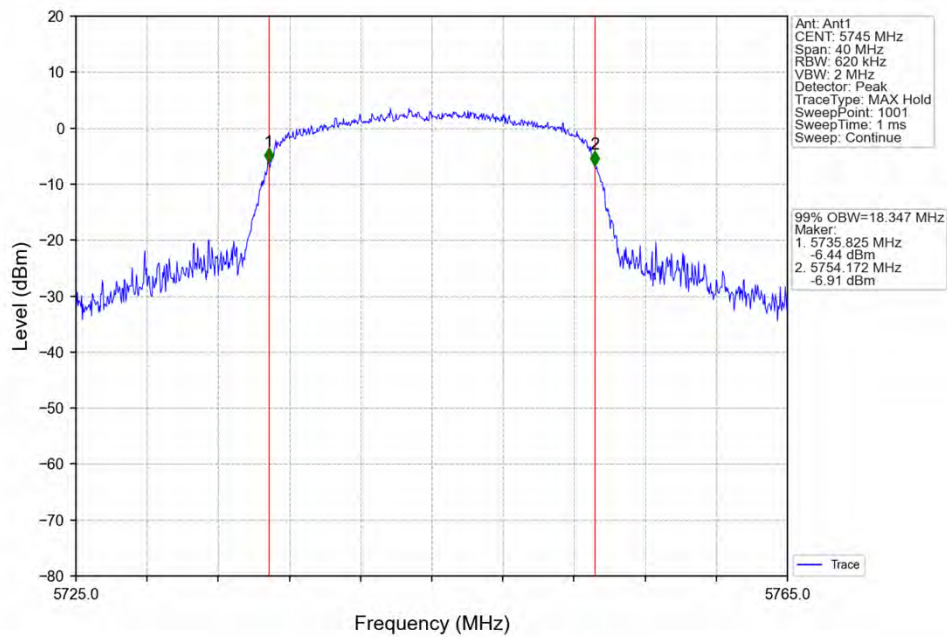
2.1.2 Test Graph



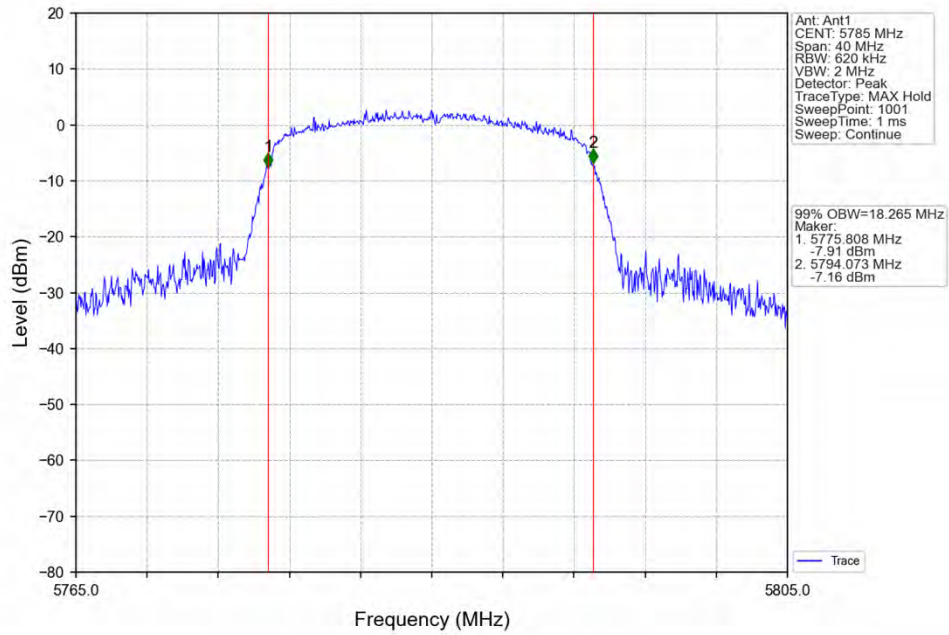
802.11a_HCH_5240MHz_Ant1_NTNV



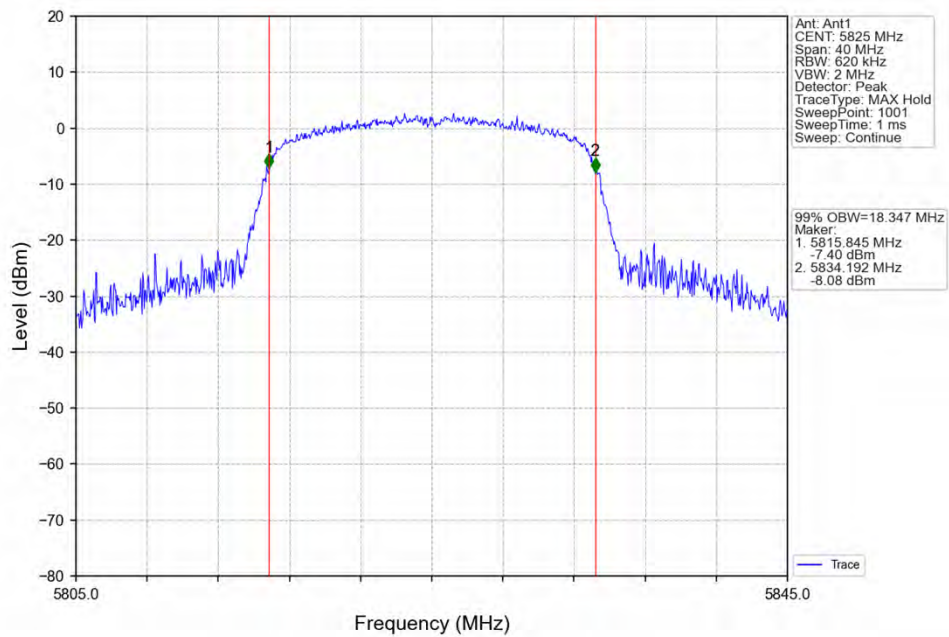
802.11a_LCH_5745MHz_Ant1_NTNV



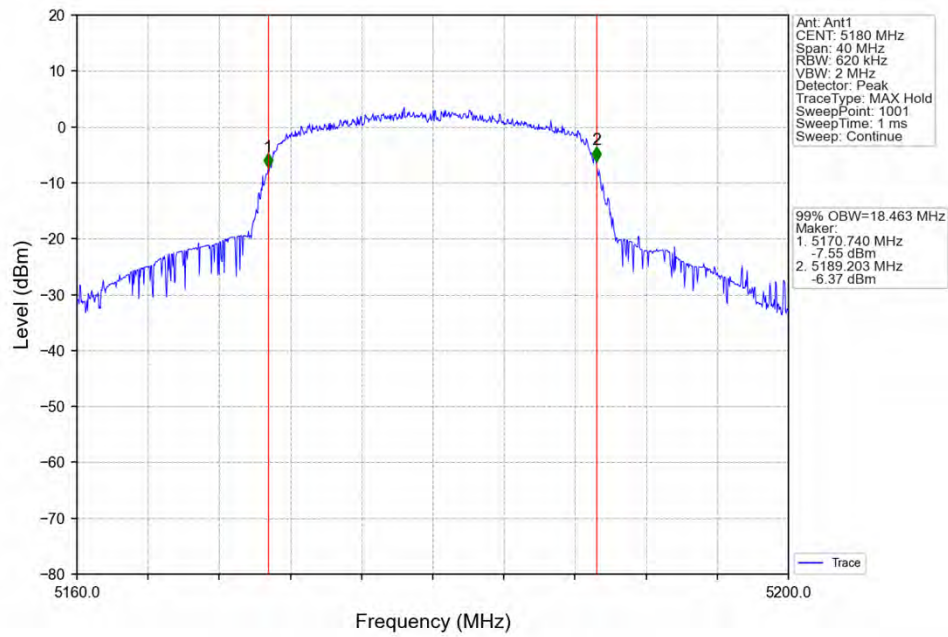
802.11a_MCH_5785MHz_Ant1_NTNV



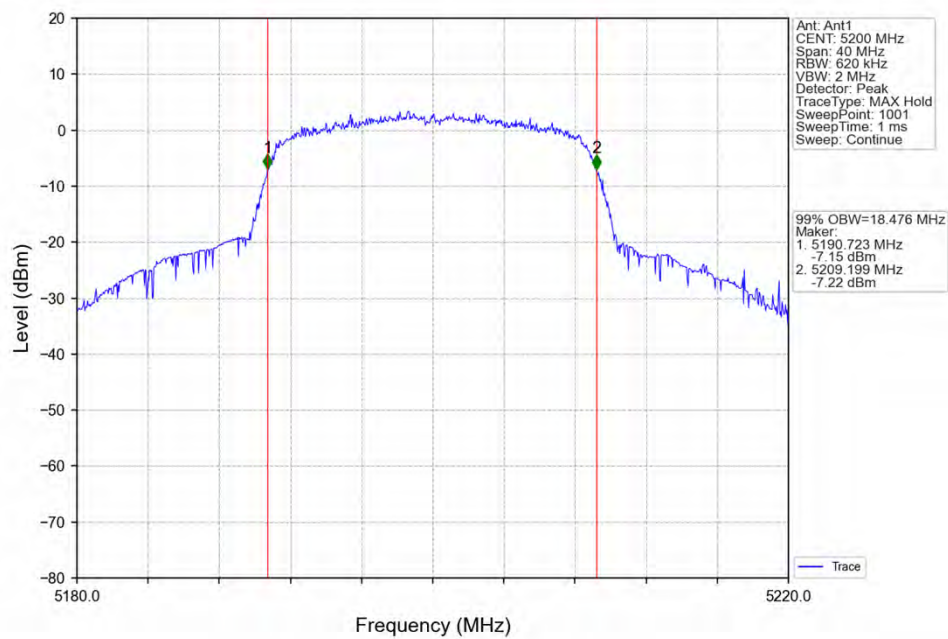
802.11a_HCH_5825MHz_Ant1_NTNV



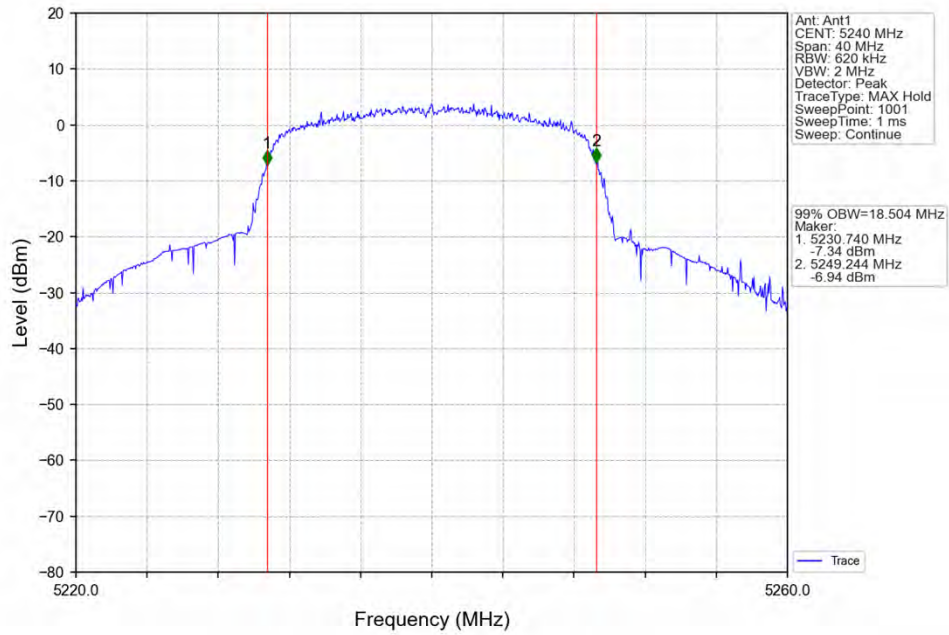
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



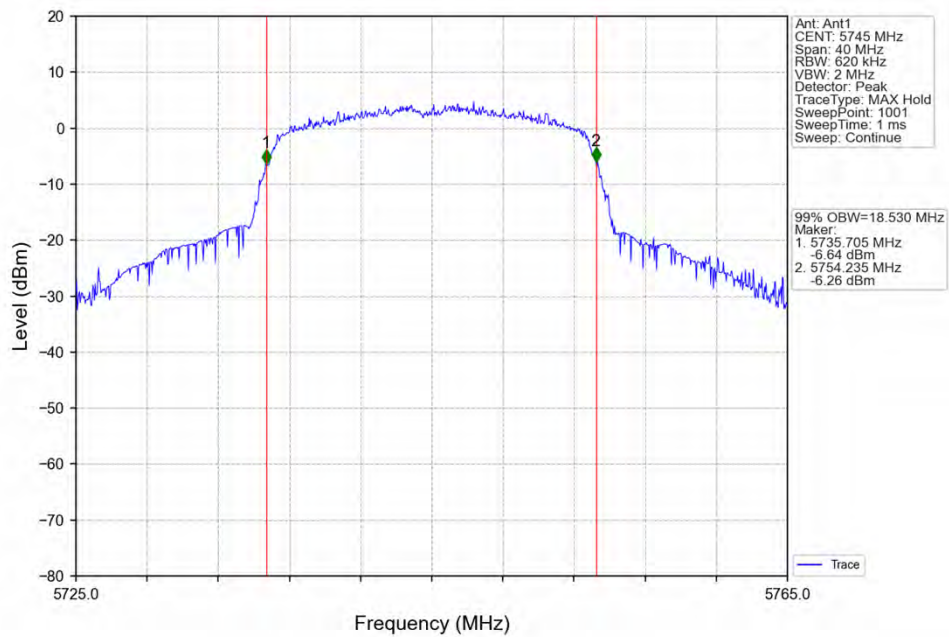
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



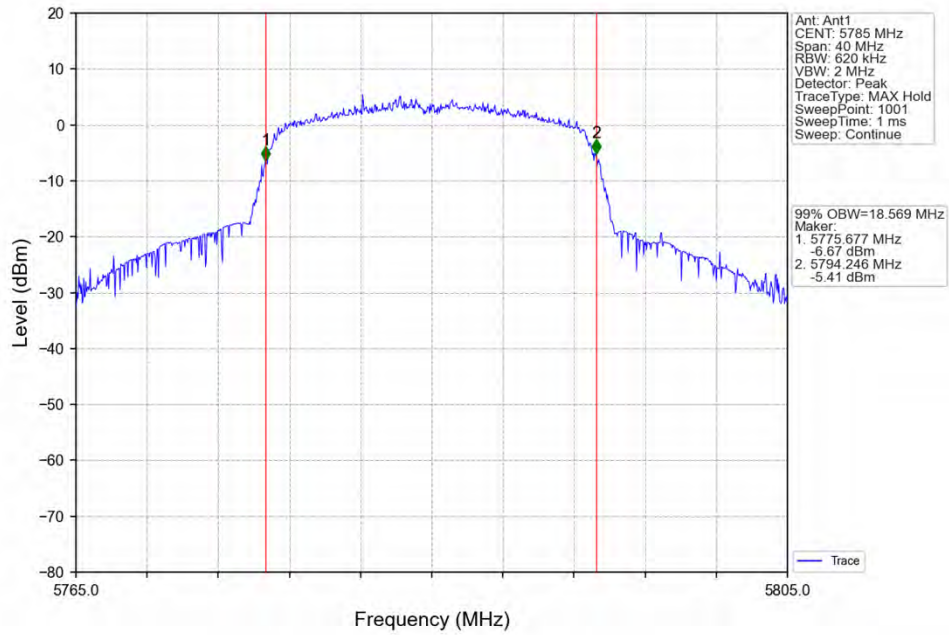
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



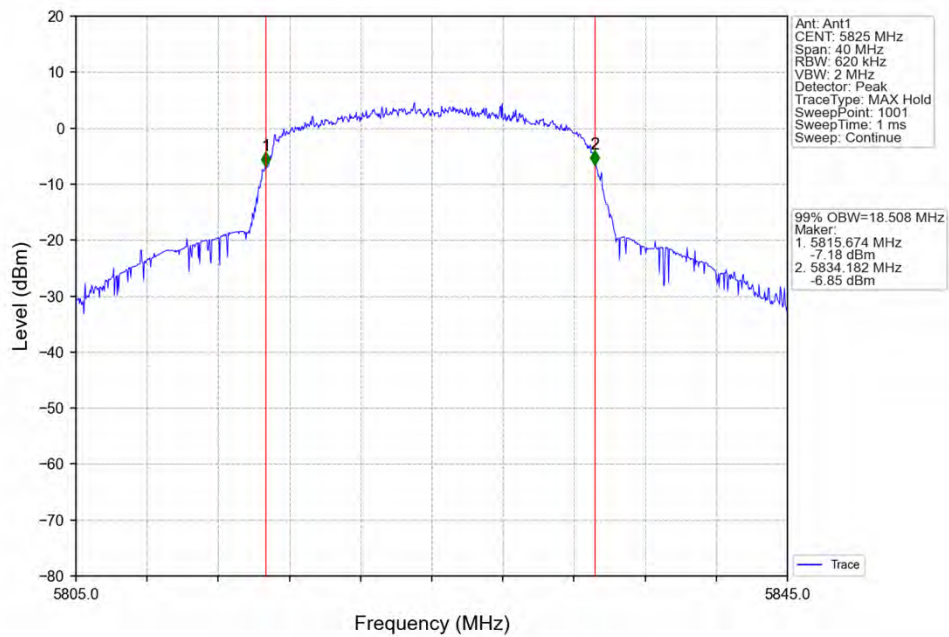
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



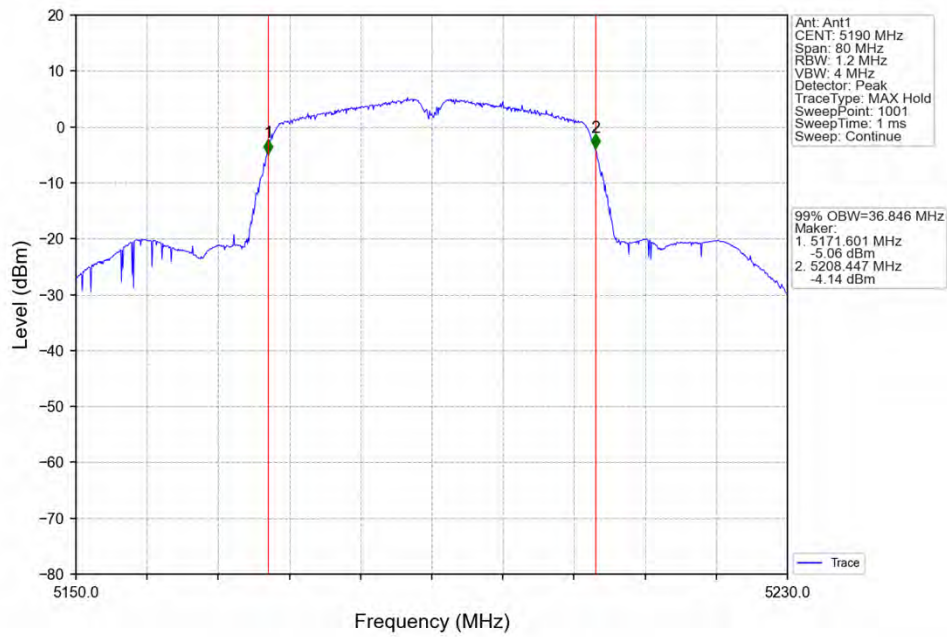
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



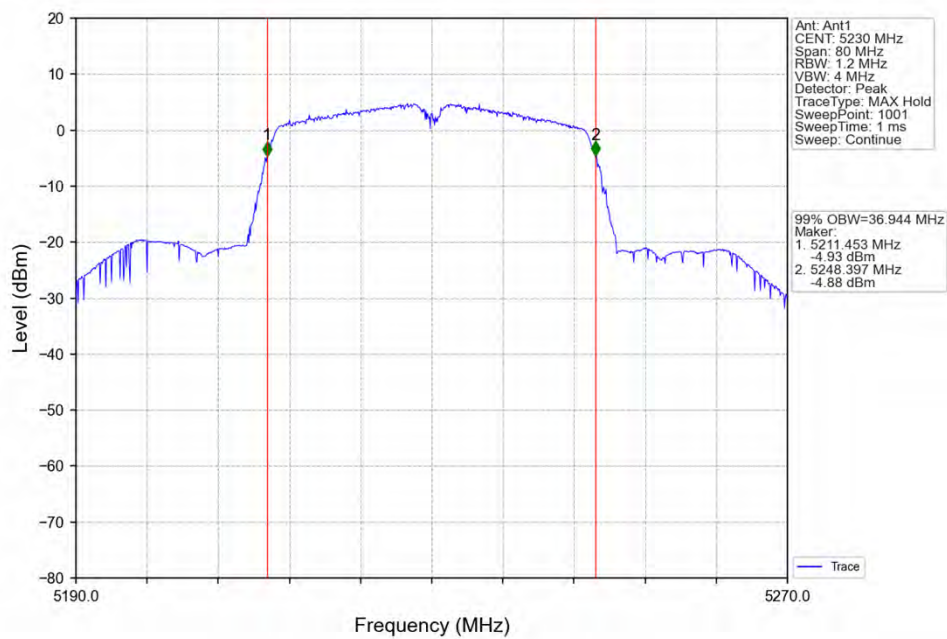
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



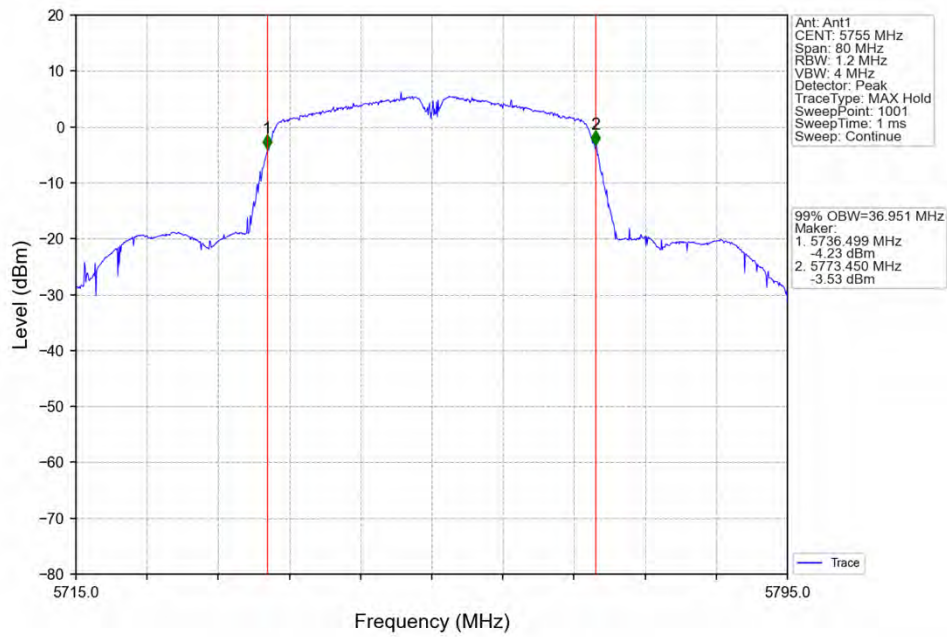
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



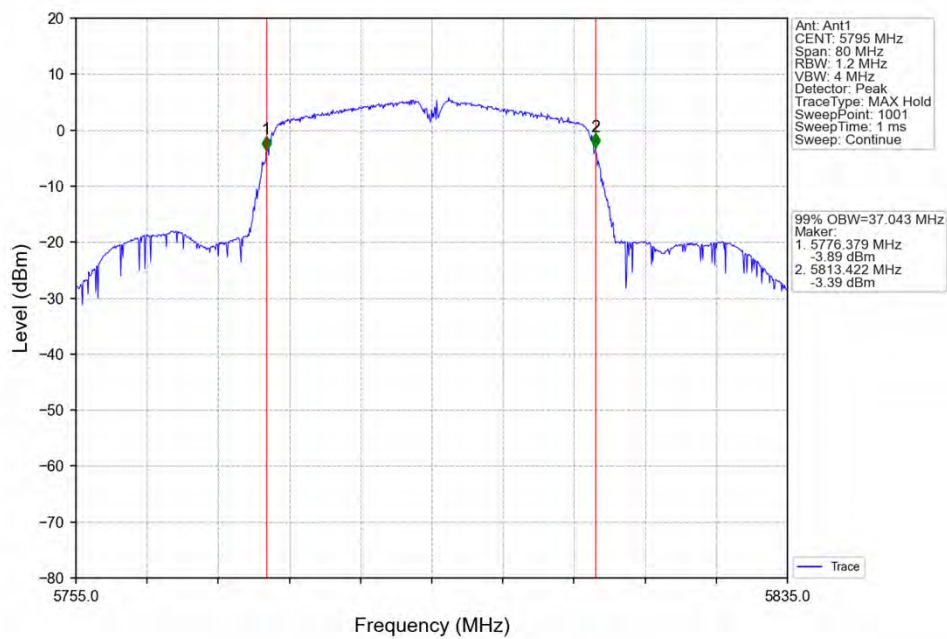
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



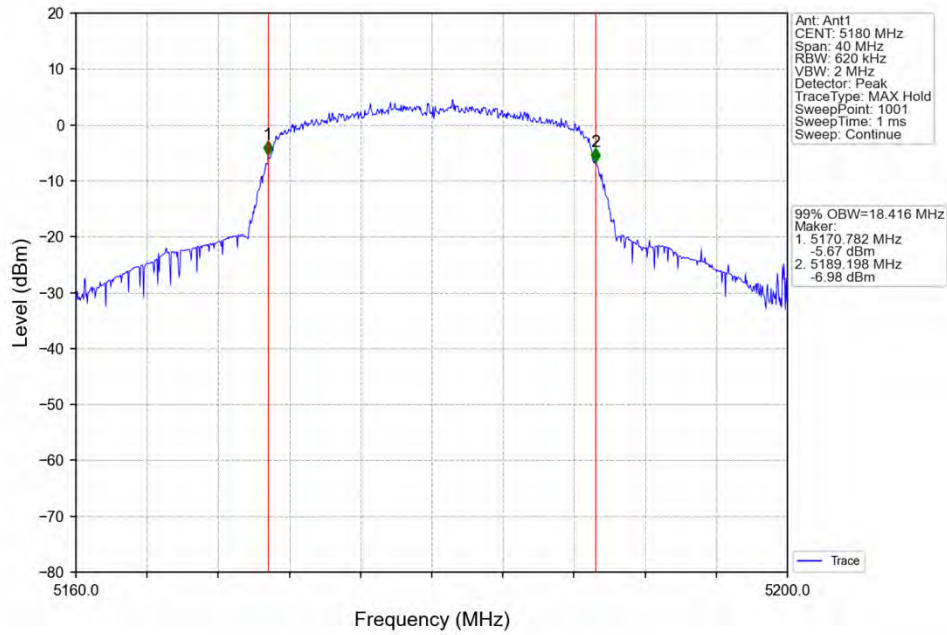
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



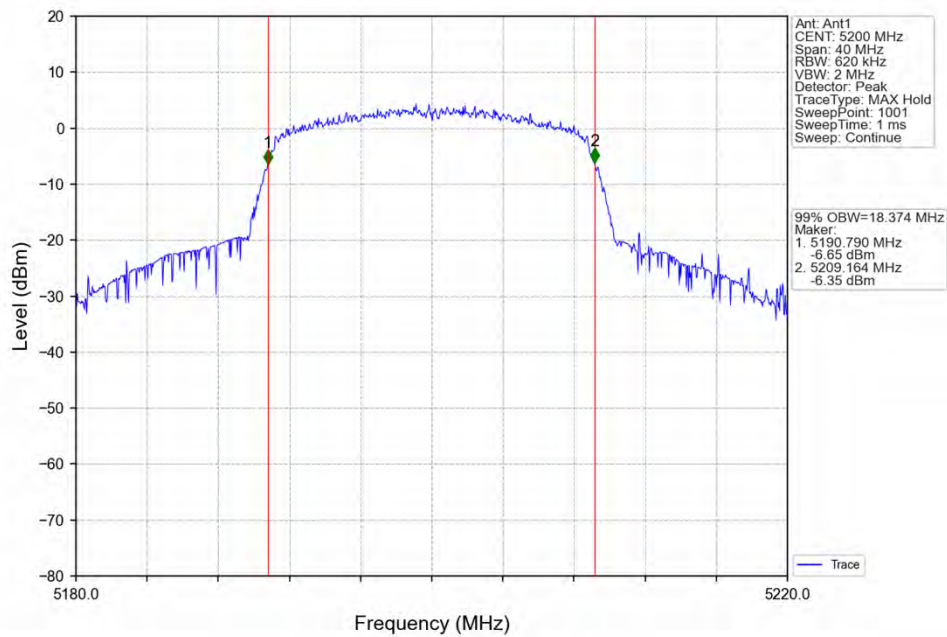
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



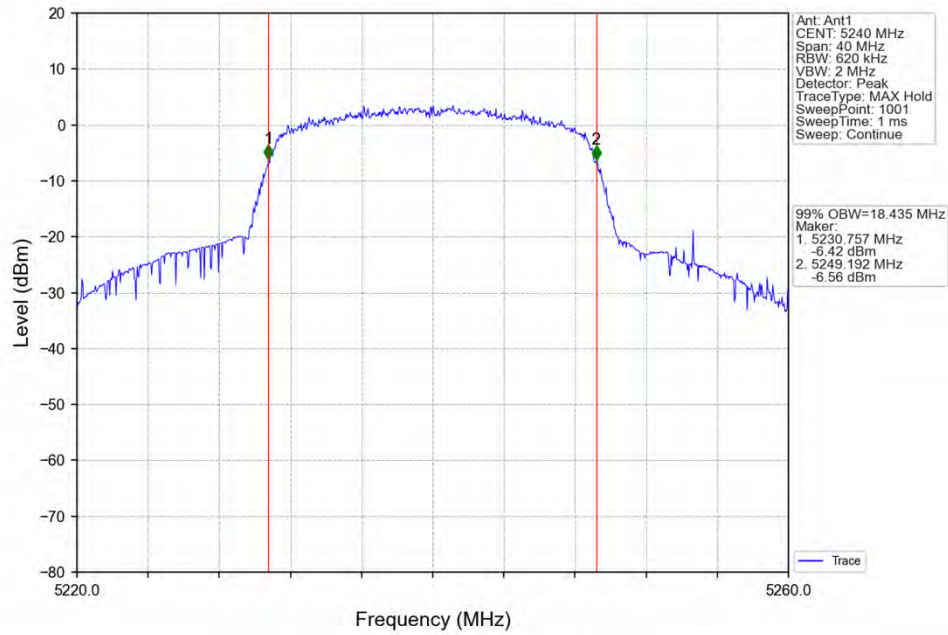
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



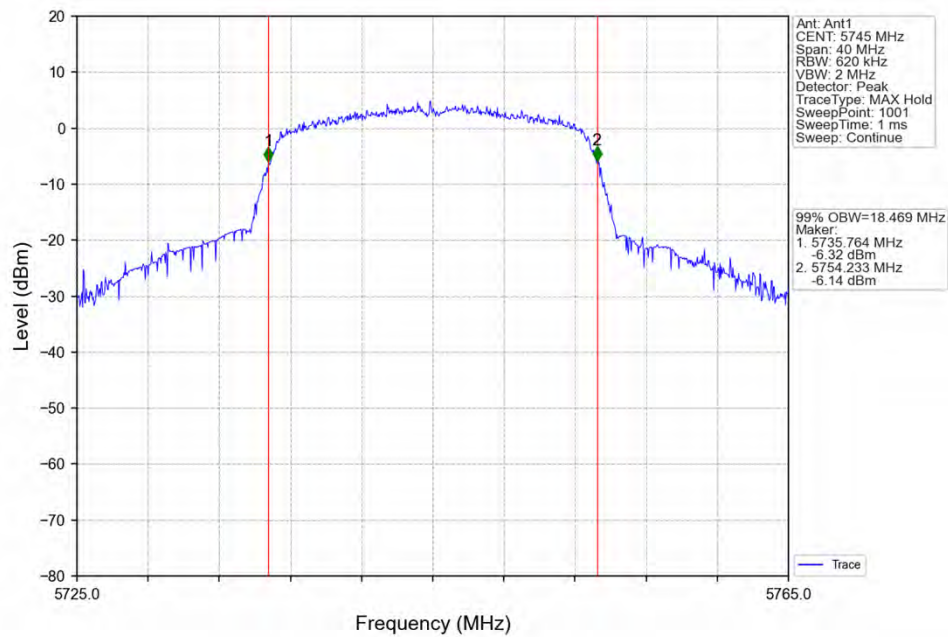
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



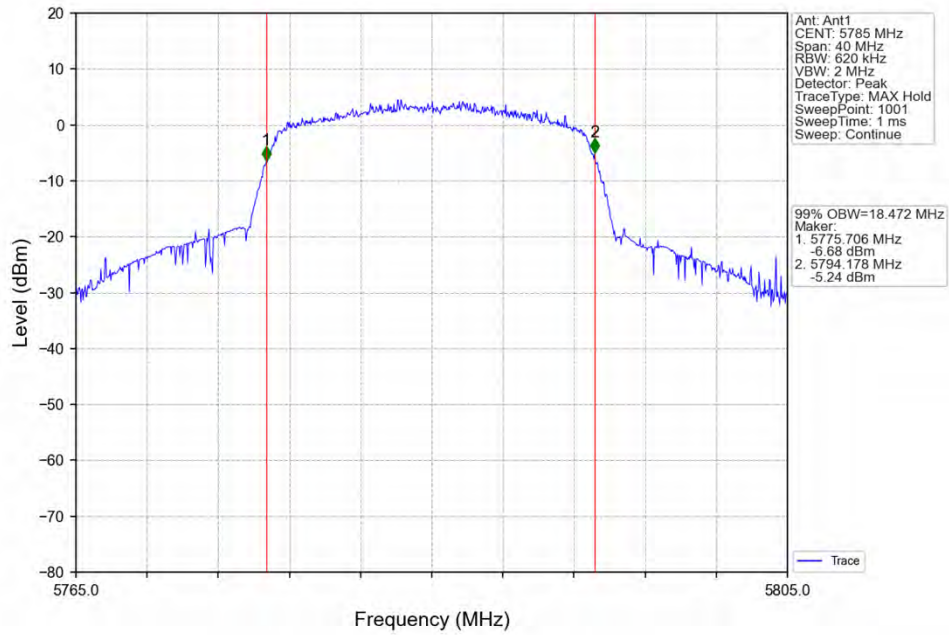
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



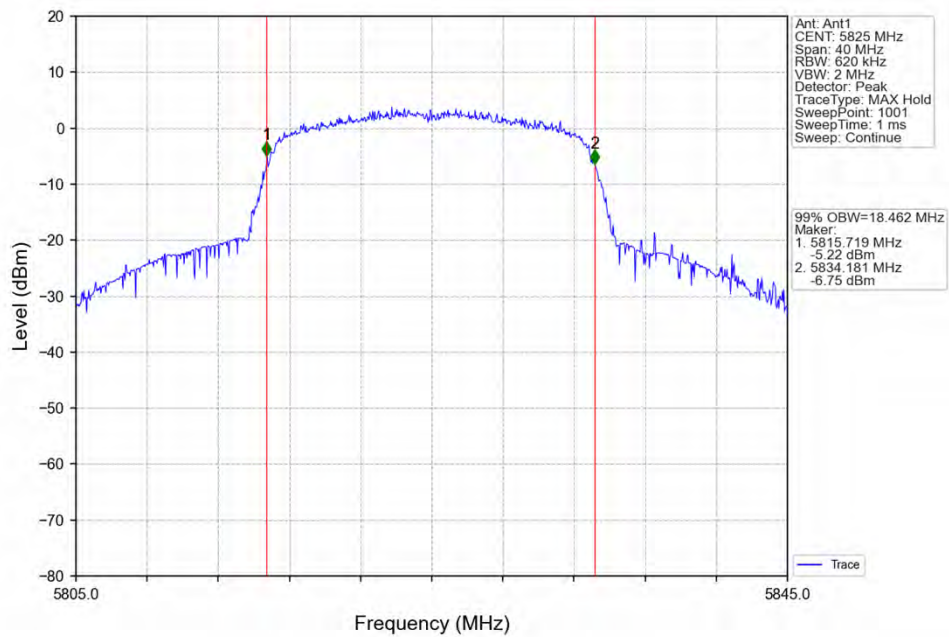
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



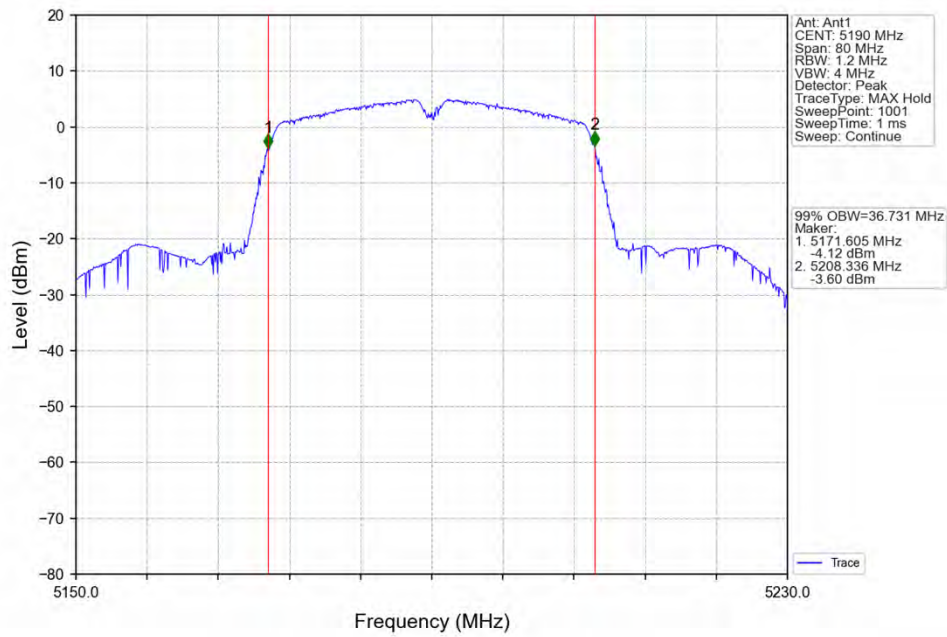
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



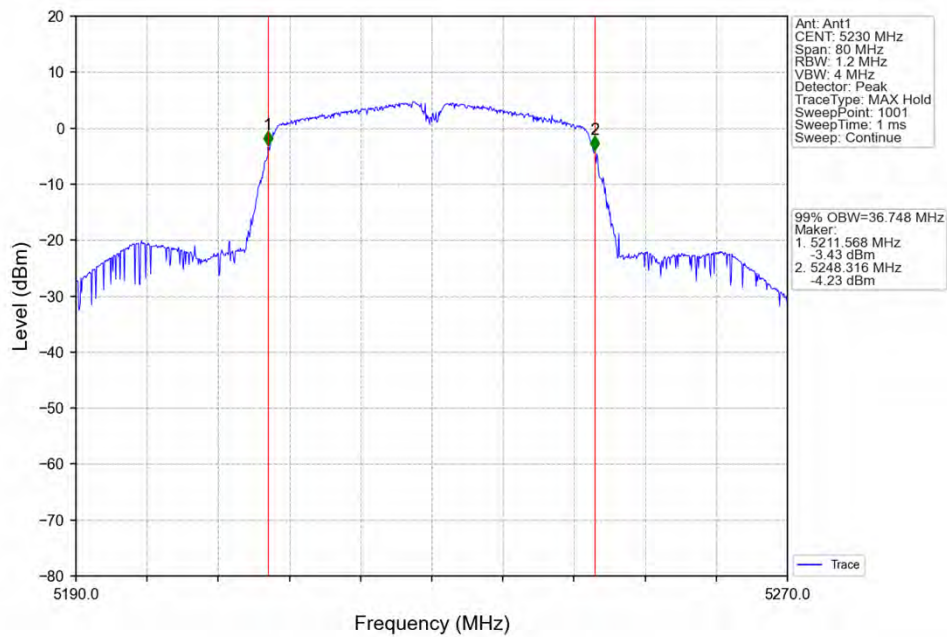
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



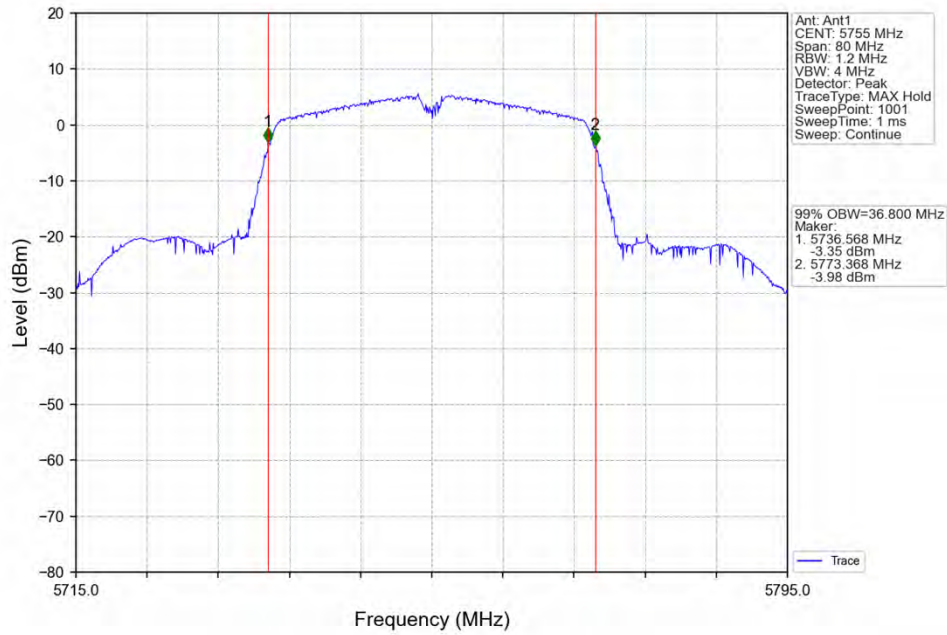
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



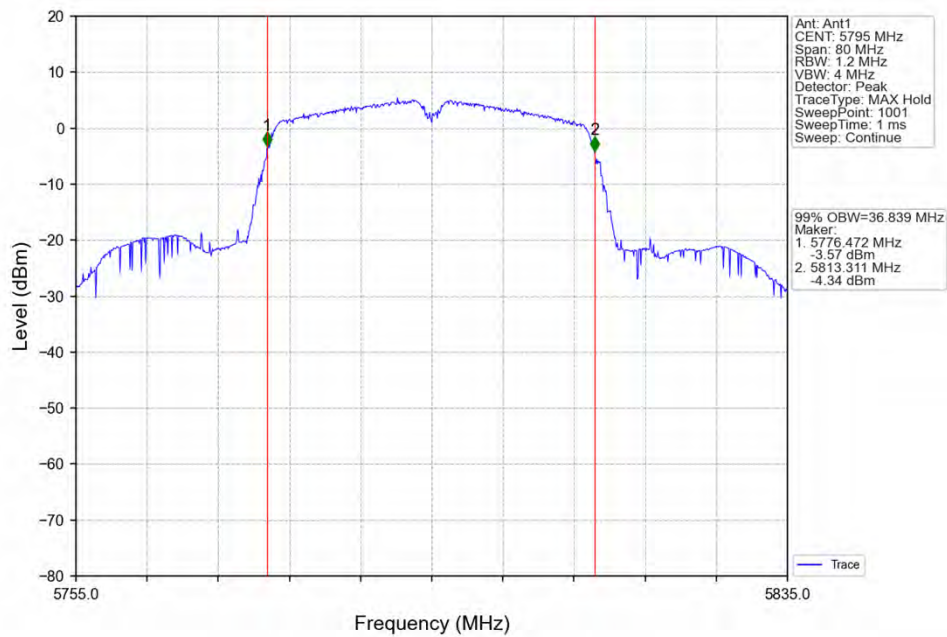
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



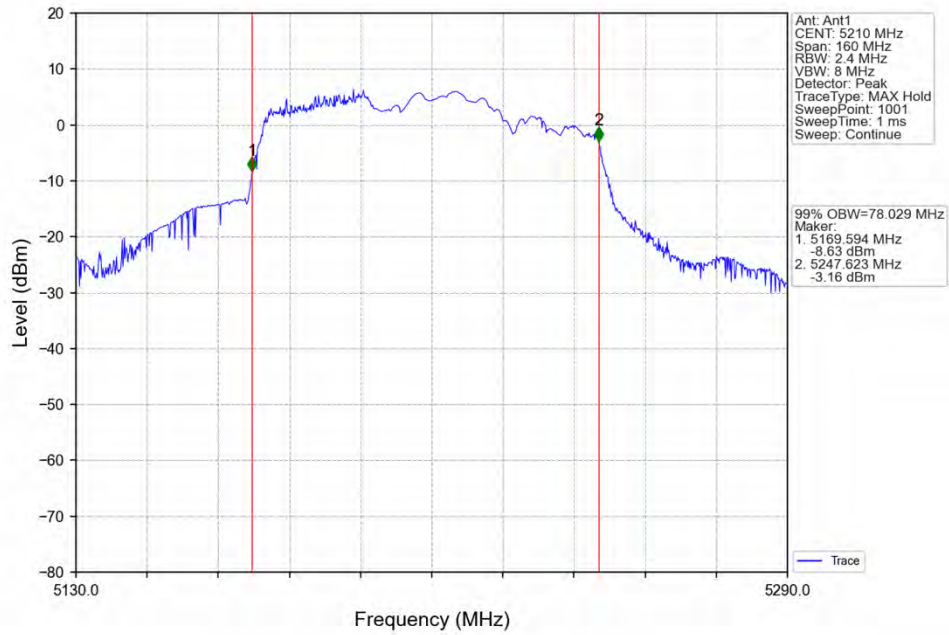
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



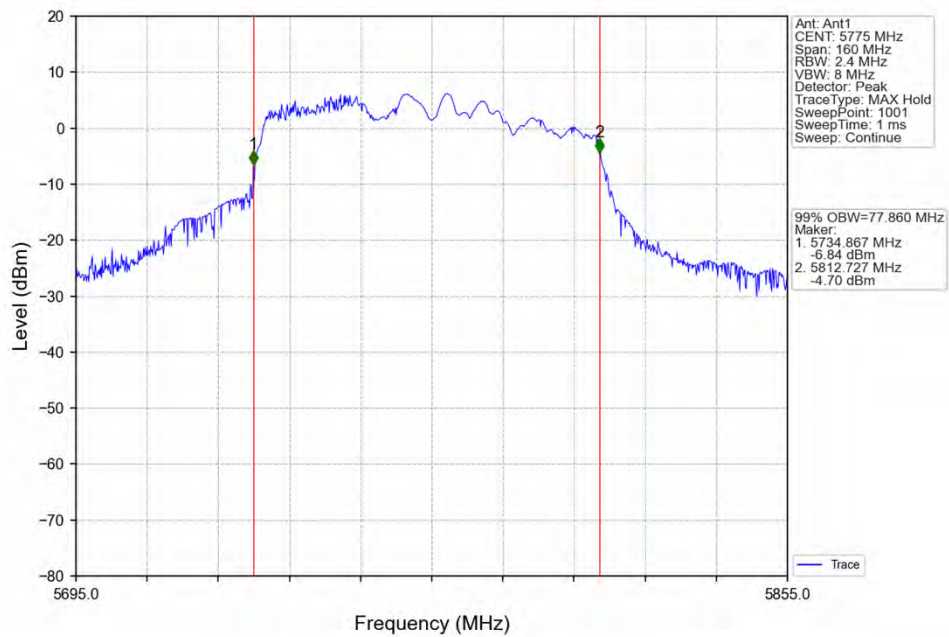
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

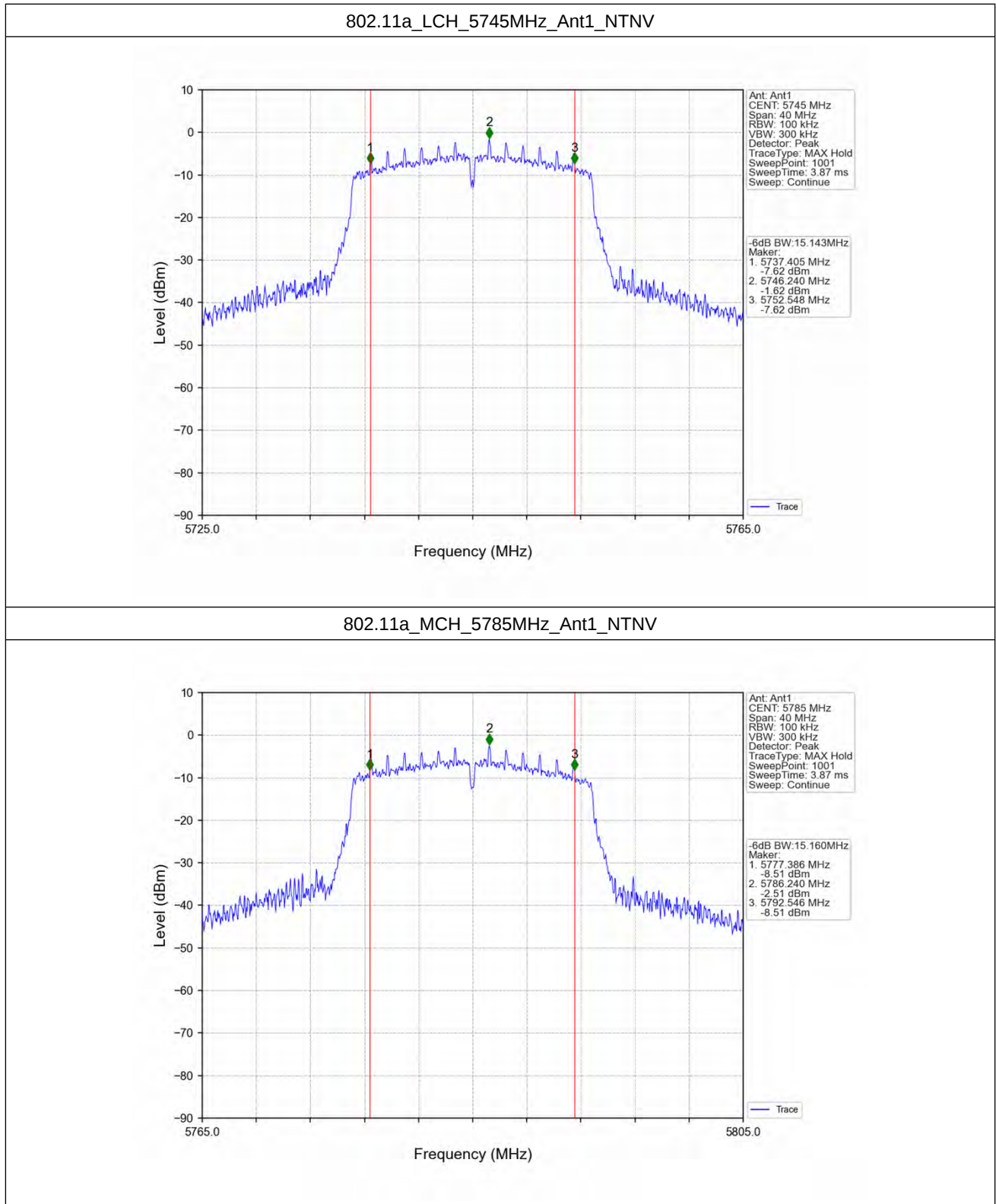


2.2 6dB BW

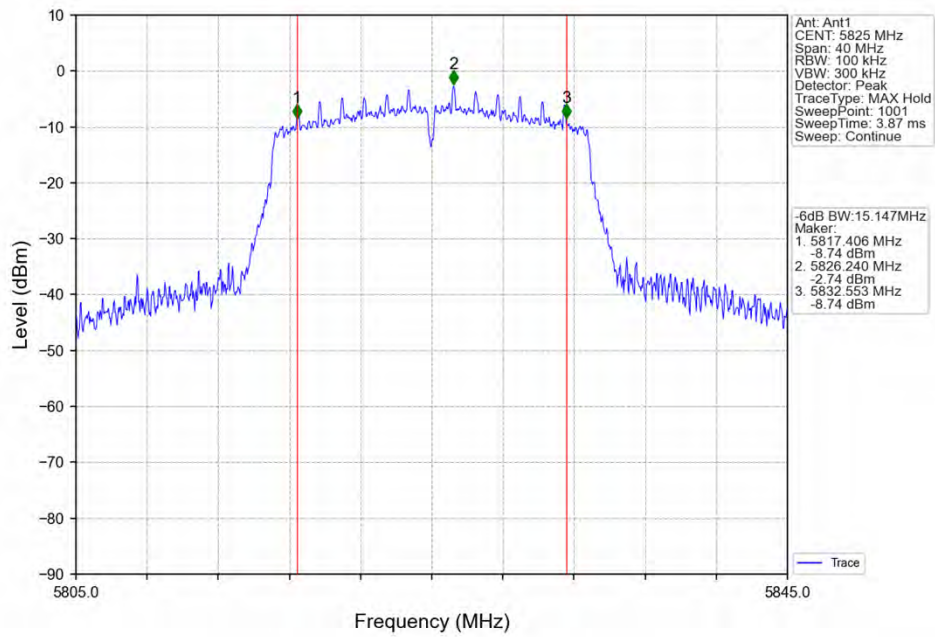
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.143	≥ 0.5	Pass
		5785	1	15.160	≥ 0.5	Pass
		5825	1	15.147	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	1	15.151	≥ 0.5	Pass
		5785	1	15.143	≥ 0.5	Pass
		5825	1	15.161	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	1	35.142	≥ 0.5	Pass
		5795	1	35.148	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	15.150	≥ 0.5	Pass
		5785	1	15.159	≥ 0.5	Pass
		5825	1	15.156	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	35.112	≥ 0.5	Pass
		5795	1	35.162	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.111	≥ 0.5	Pass

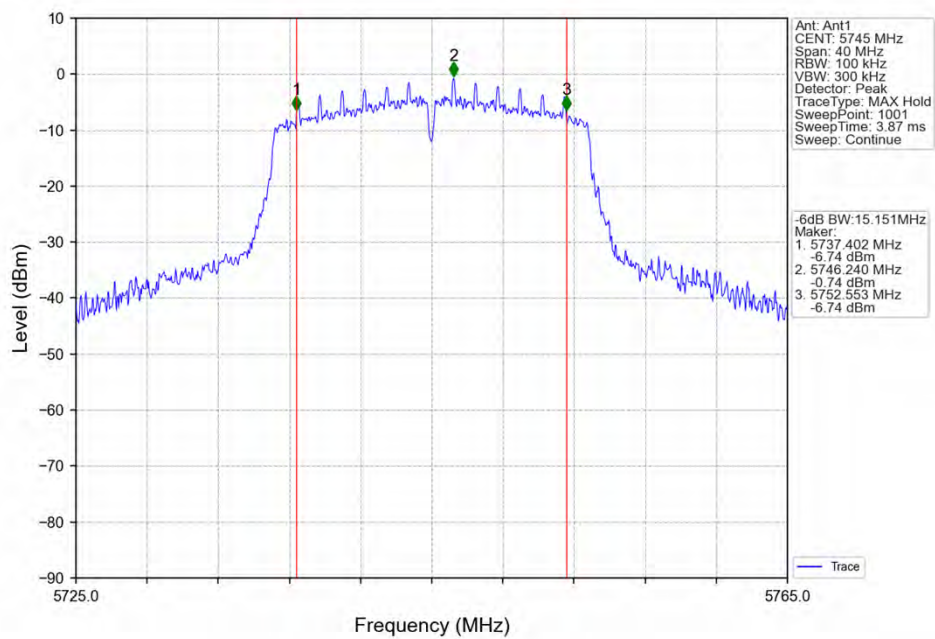
2.2.2 Test Graph



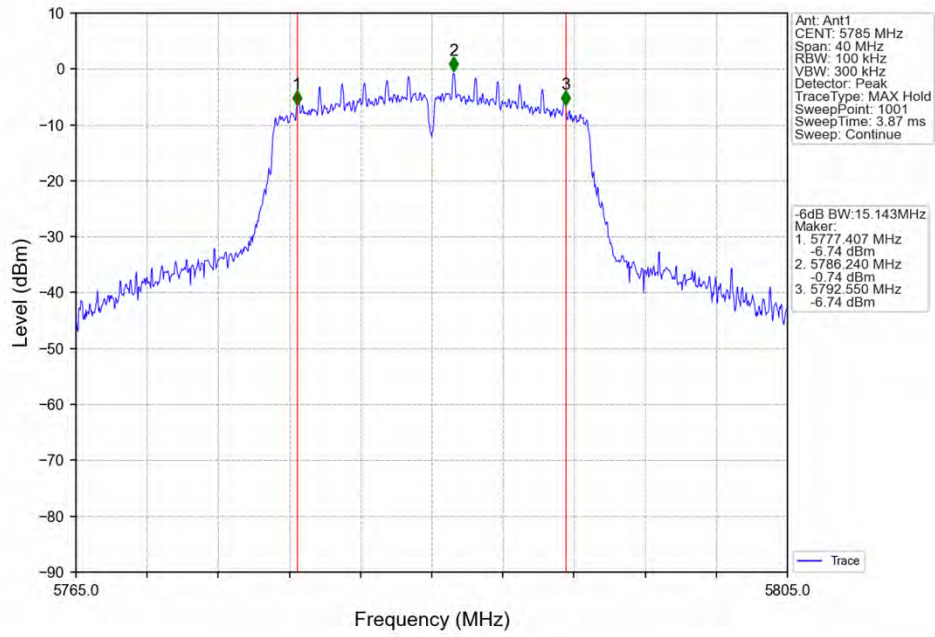
802.11a_HCH_5825MHz_Ant1_NTNV



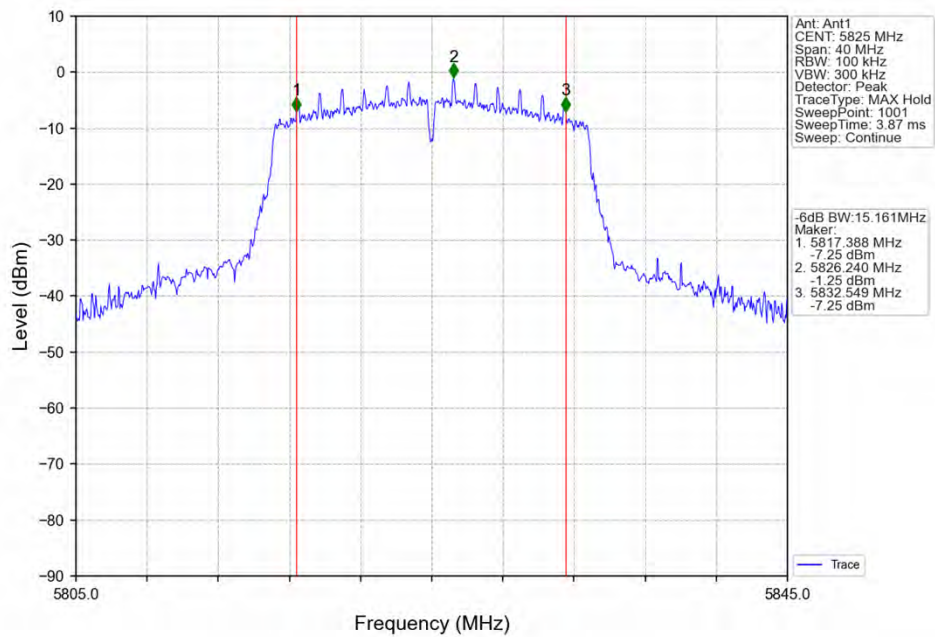
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



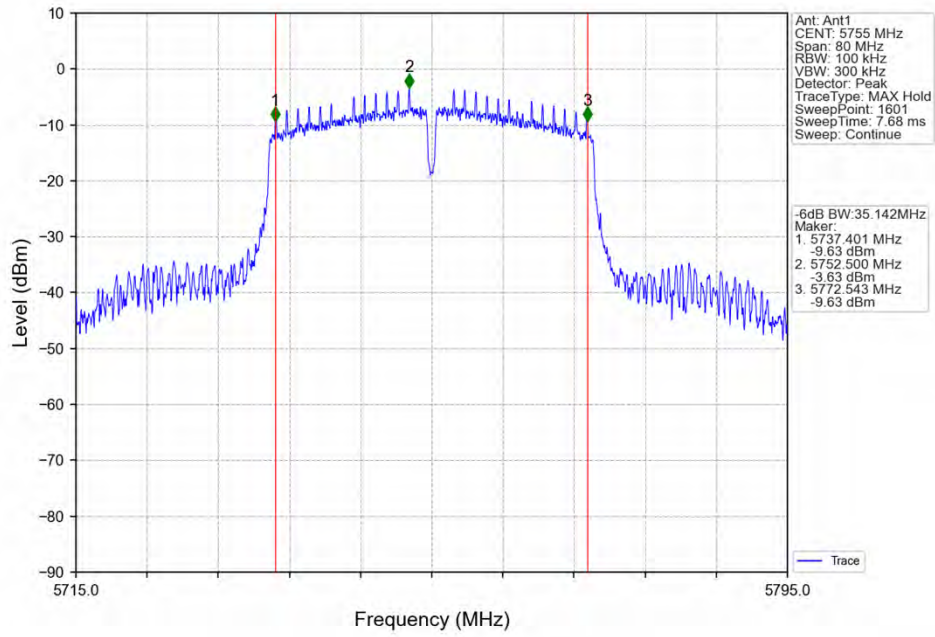
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



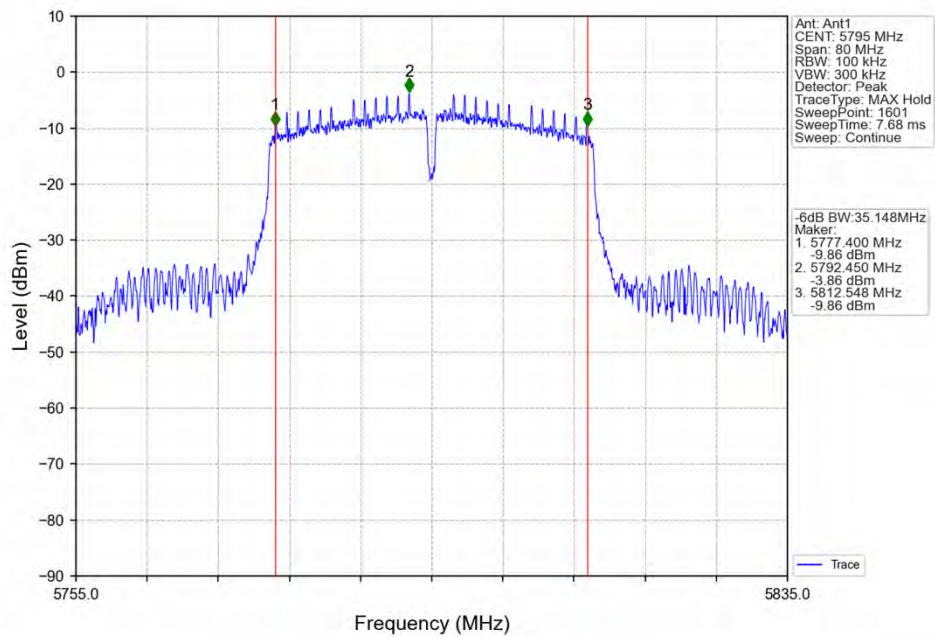
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



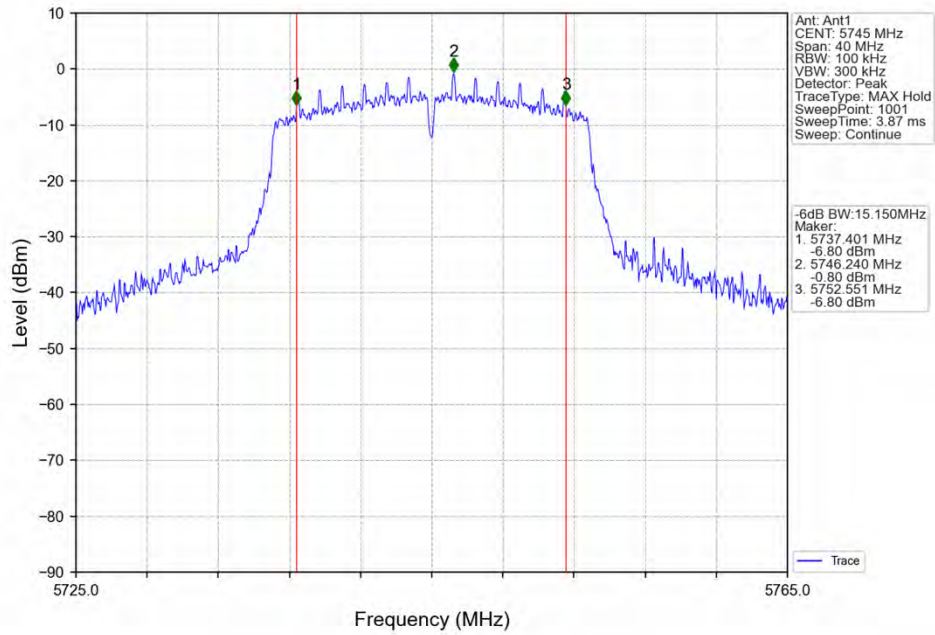
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



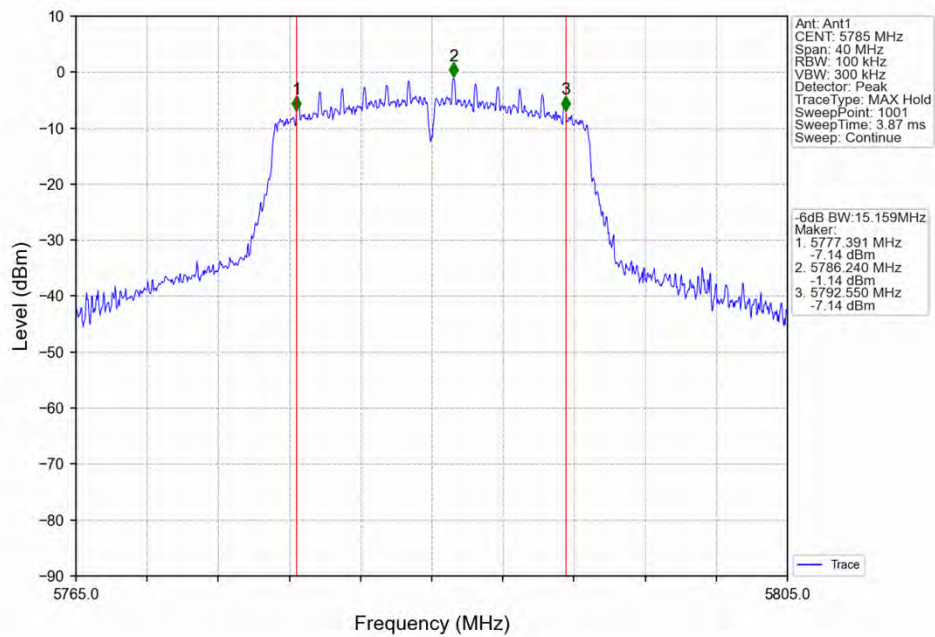
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



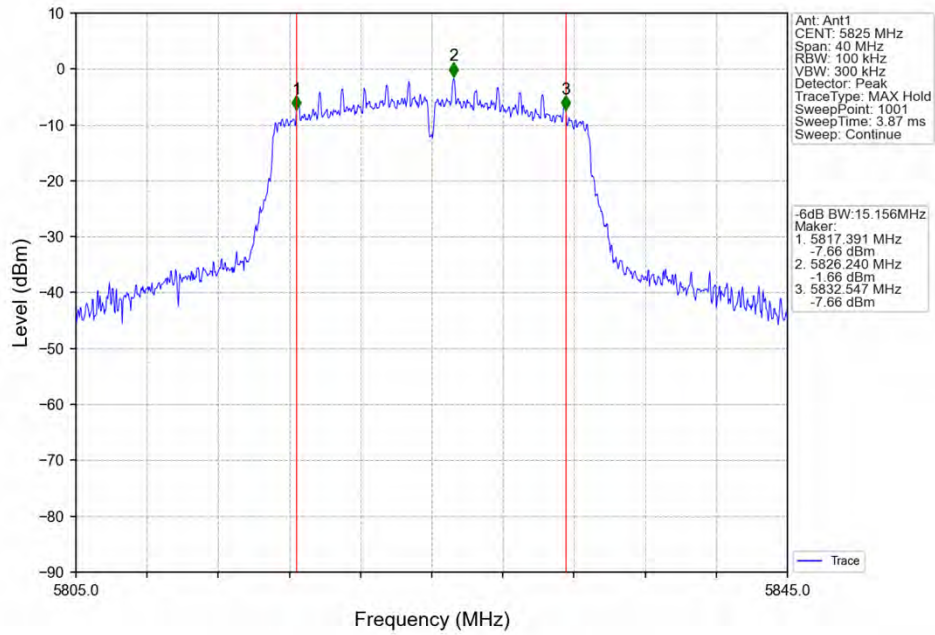
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



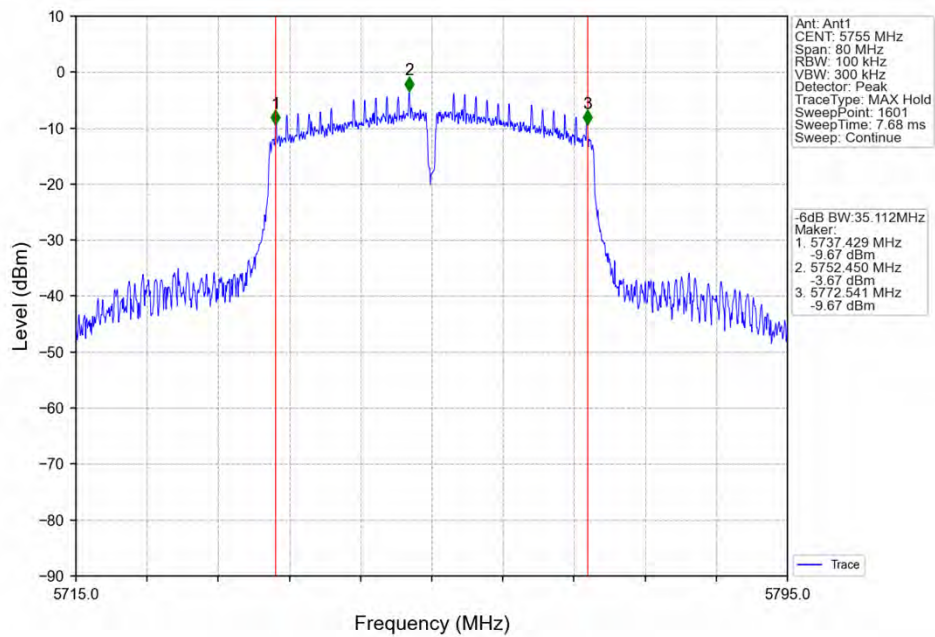
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



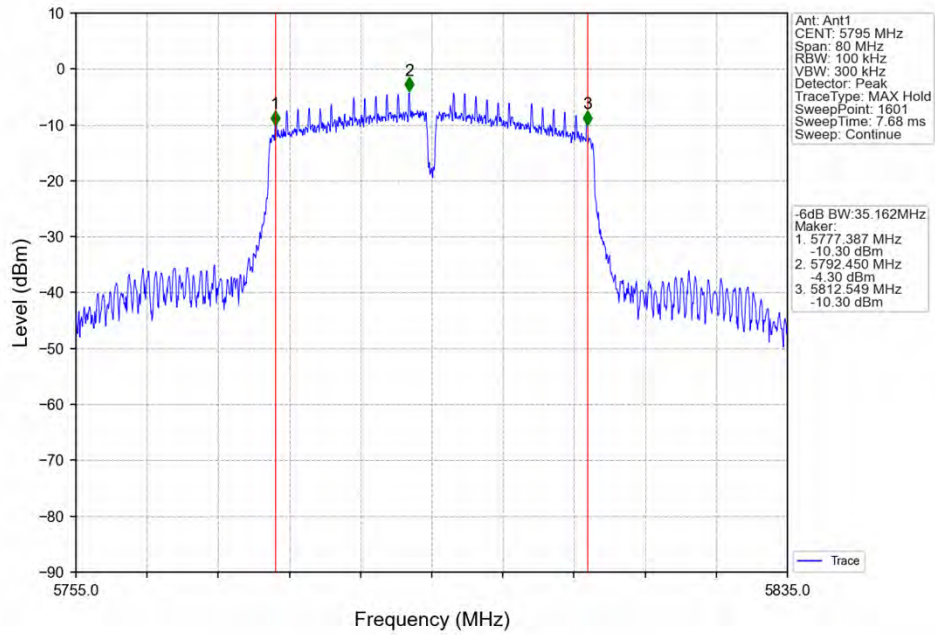
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



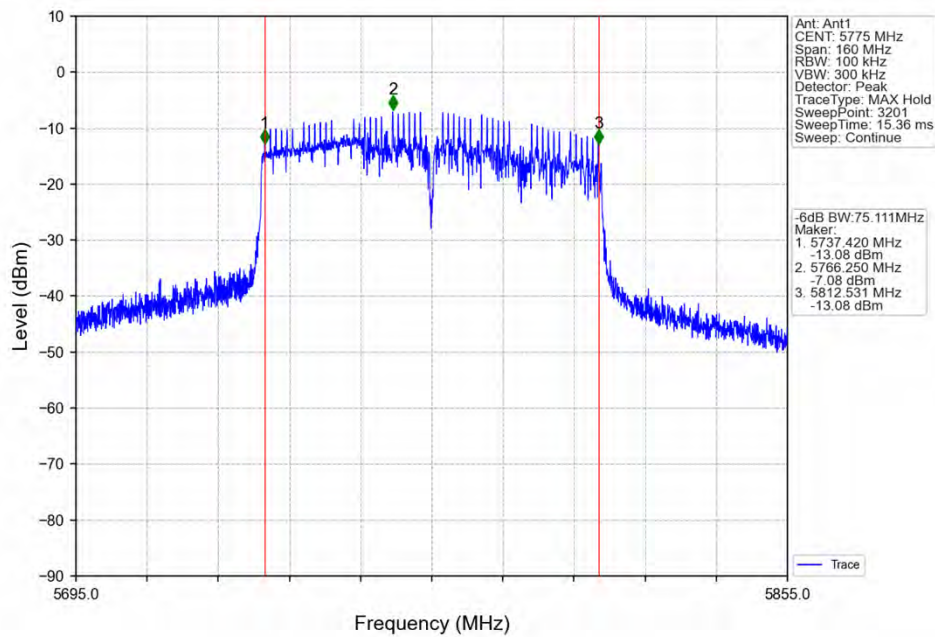
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

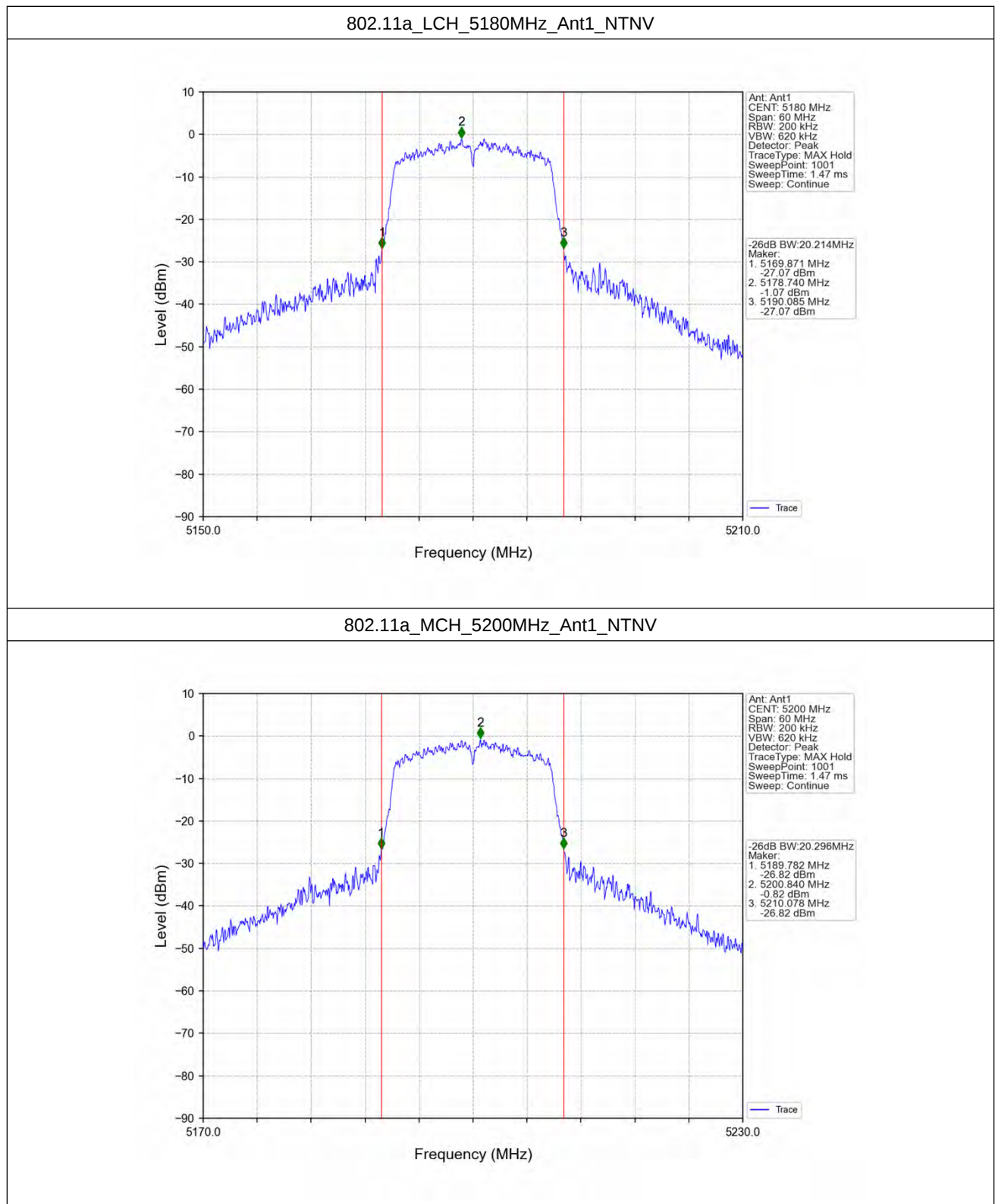


2.3 26dB BW

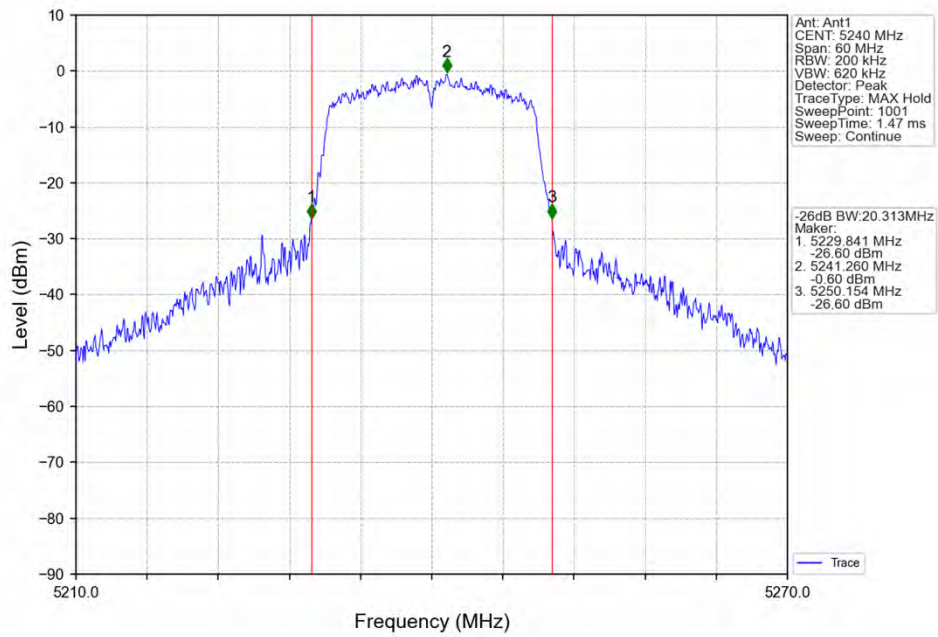
2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	20.214	Pass
		5200	1	20.296	Pass
		5240	1	20.313	Pass
802.11n (HT20)	MIMO	5180	1	20.201	Pass
		5200	1	20.255	Pass
		5240	1	20.988	Pass
802.11n (HT40)	MIMO	5190	1	40.398	Pass
		5230	1	40.839	Pass
802.11ac (VHT20)	MIMO	5180	1	20.215	Pass
		5200	1	20.295	Pass
		5240	1	20.329	Pass
802.11ac (VHT40)	MIMO	5190	1	40.702	Pass
		5230	1	40.479	Pass
802.11ac (VHT80)	MIMO	5210	1	103.909	Pass

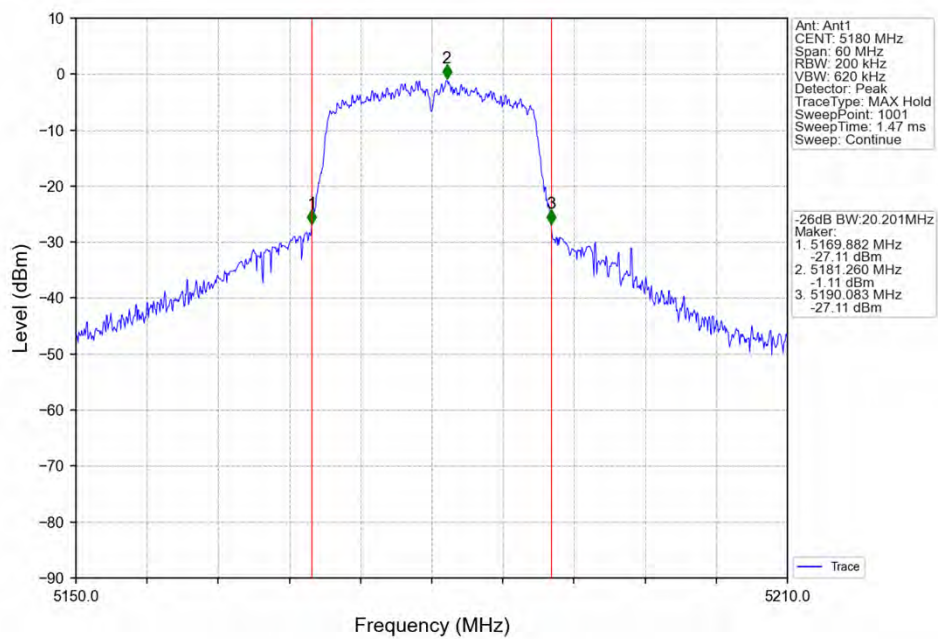
2.3.2 Test Graph



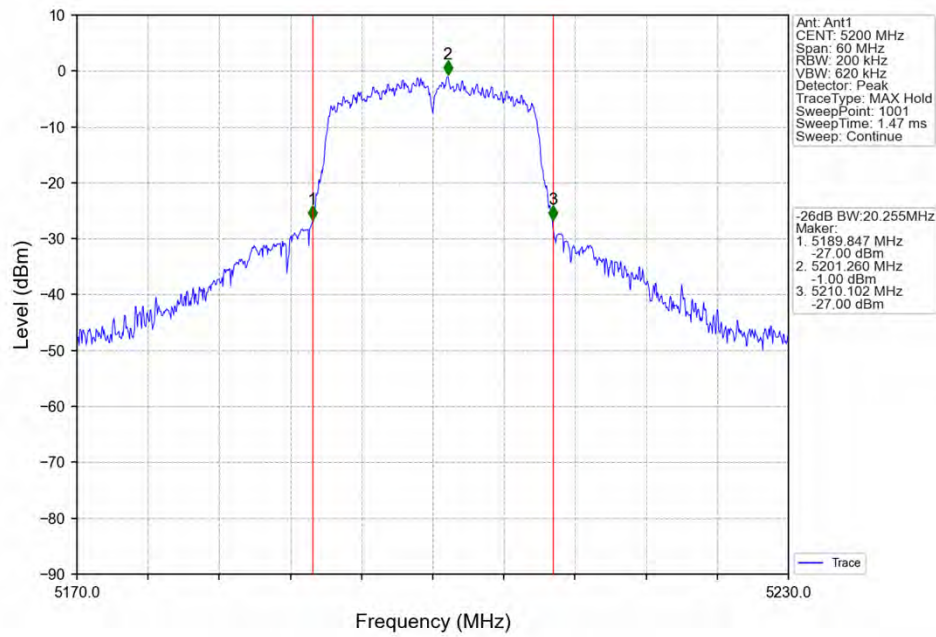
802.11a_HCH_5240MHz_Ant1_NTNV



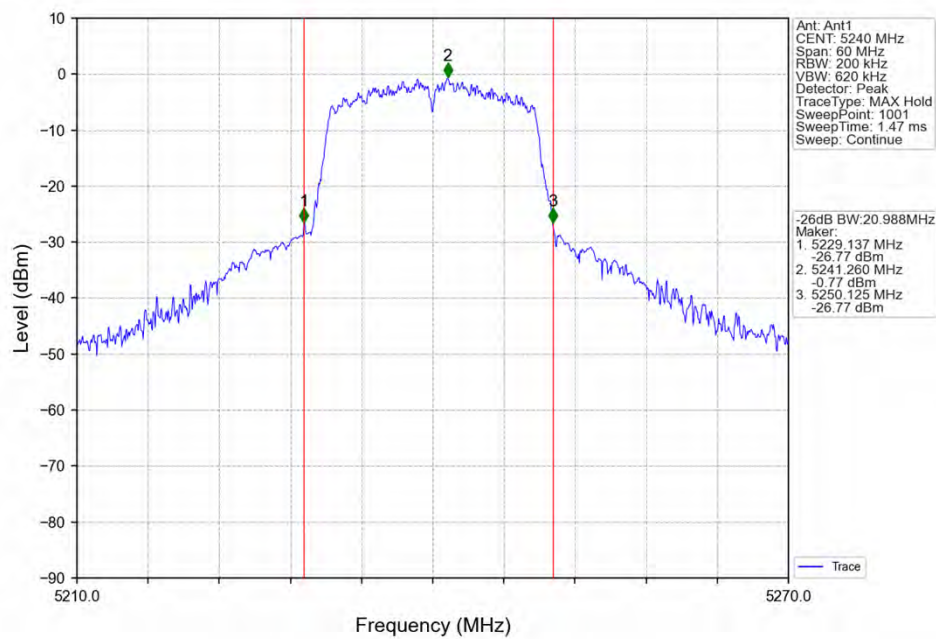
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



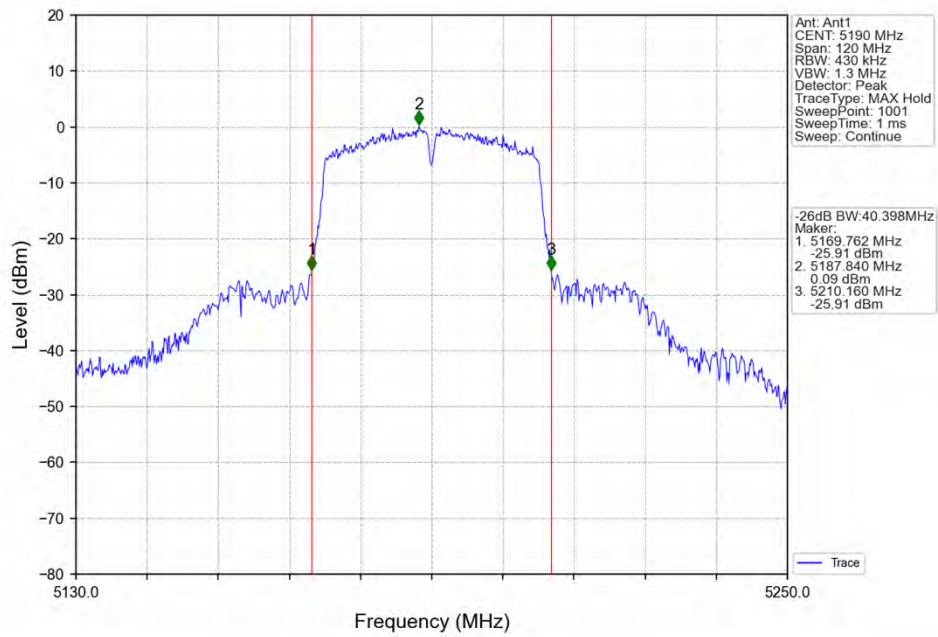
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



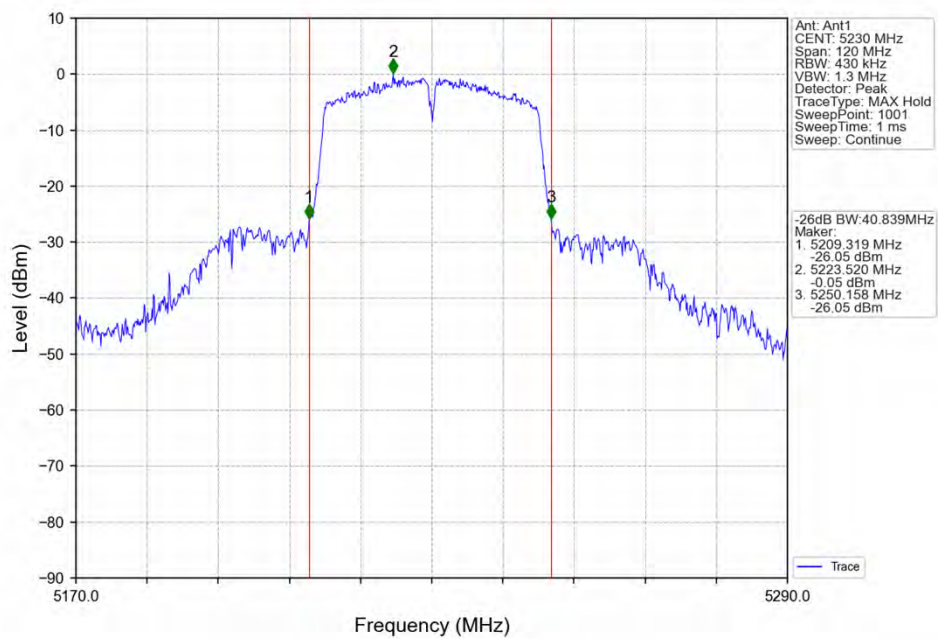
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



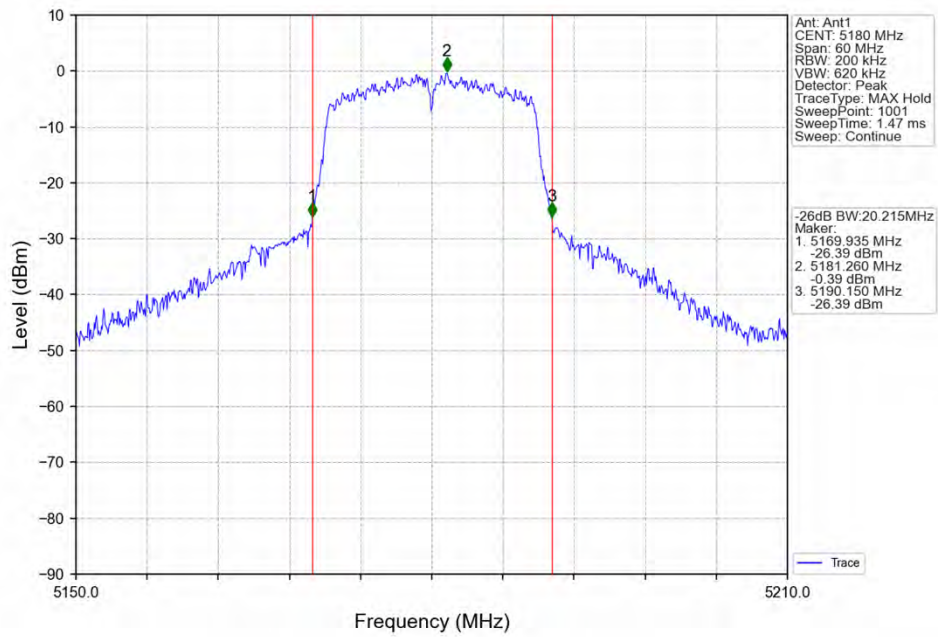
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



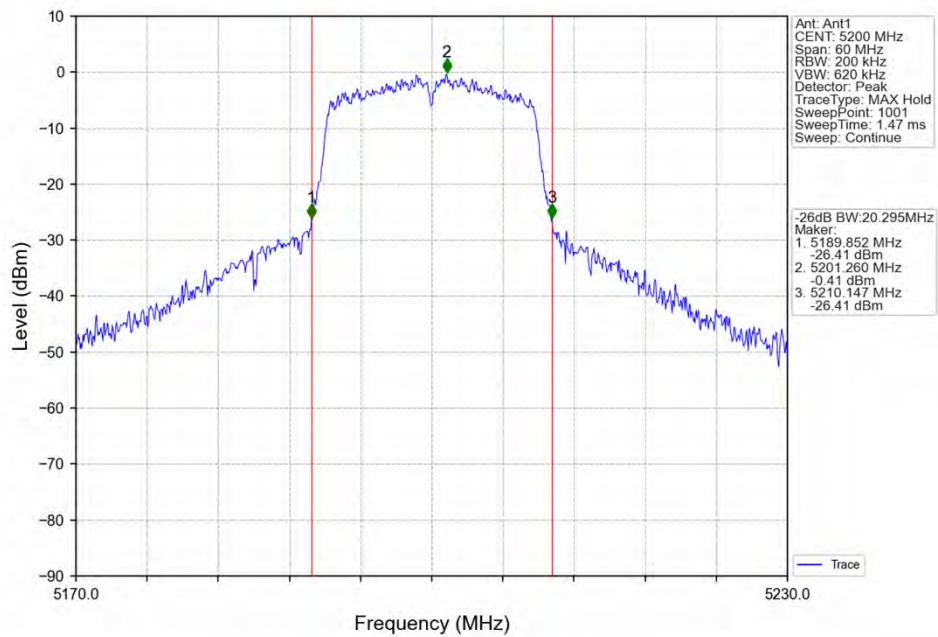
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



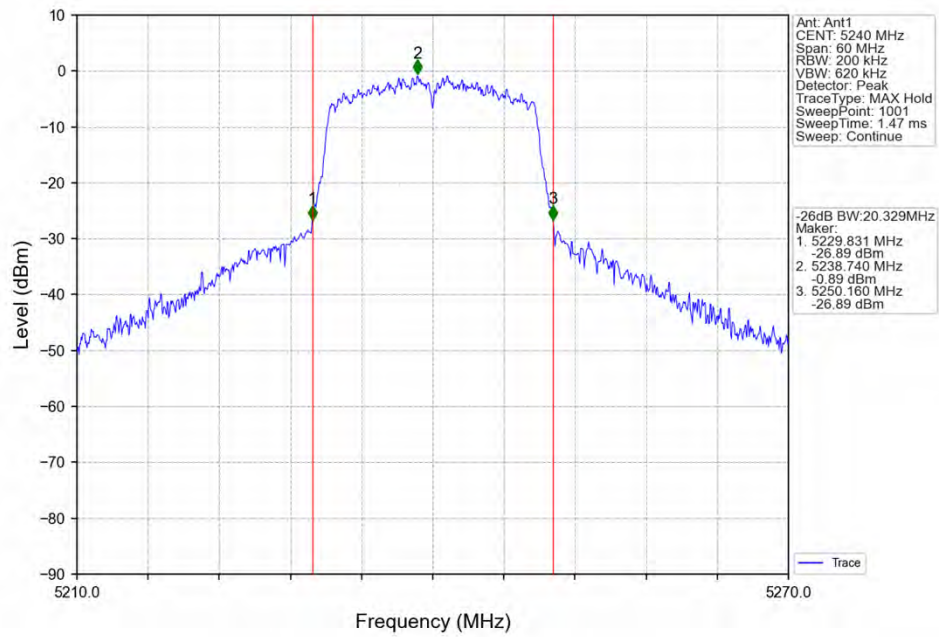
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



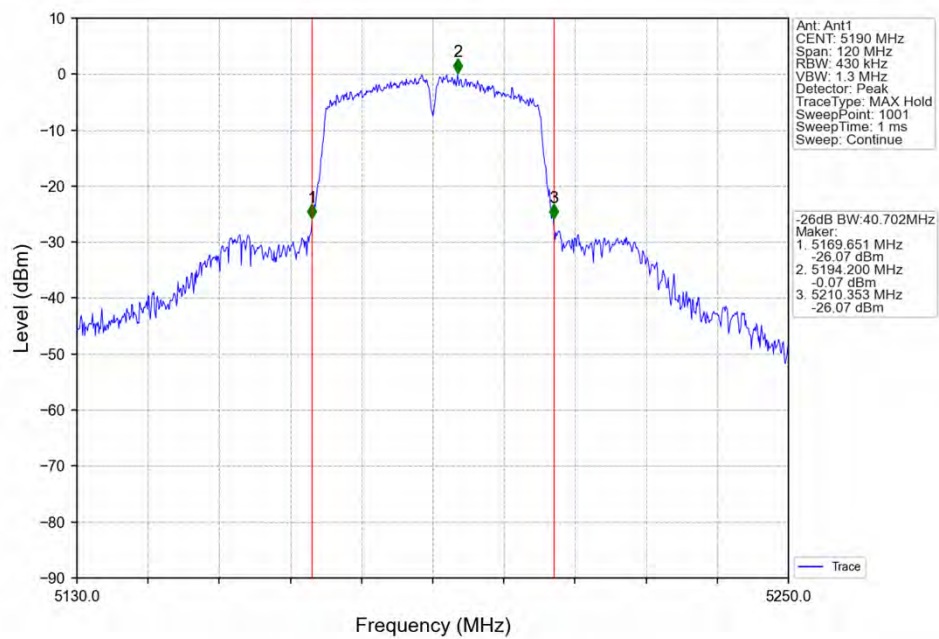
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



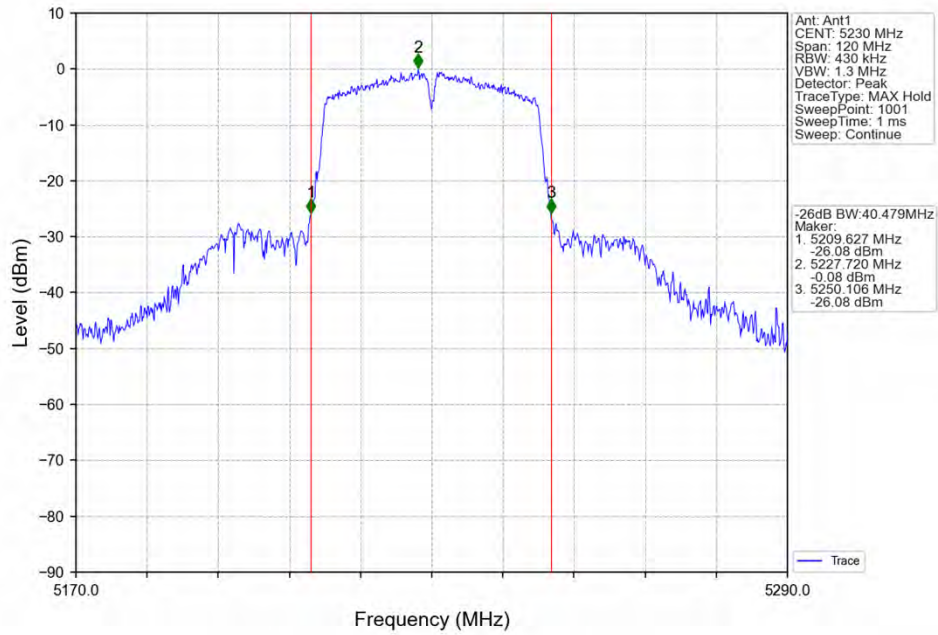
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



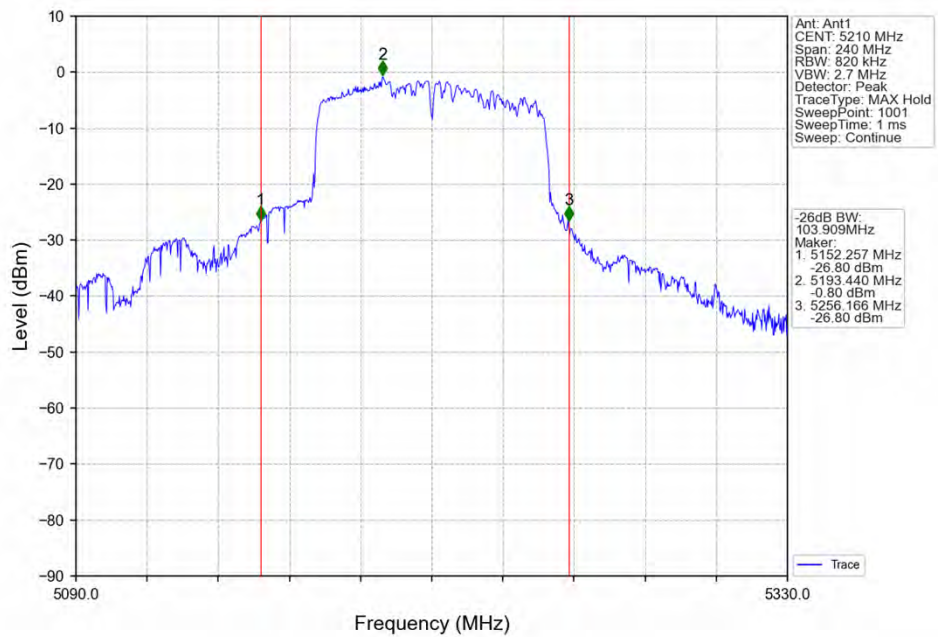
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



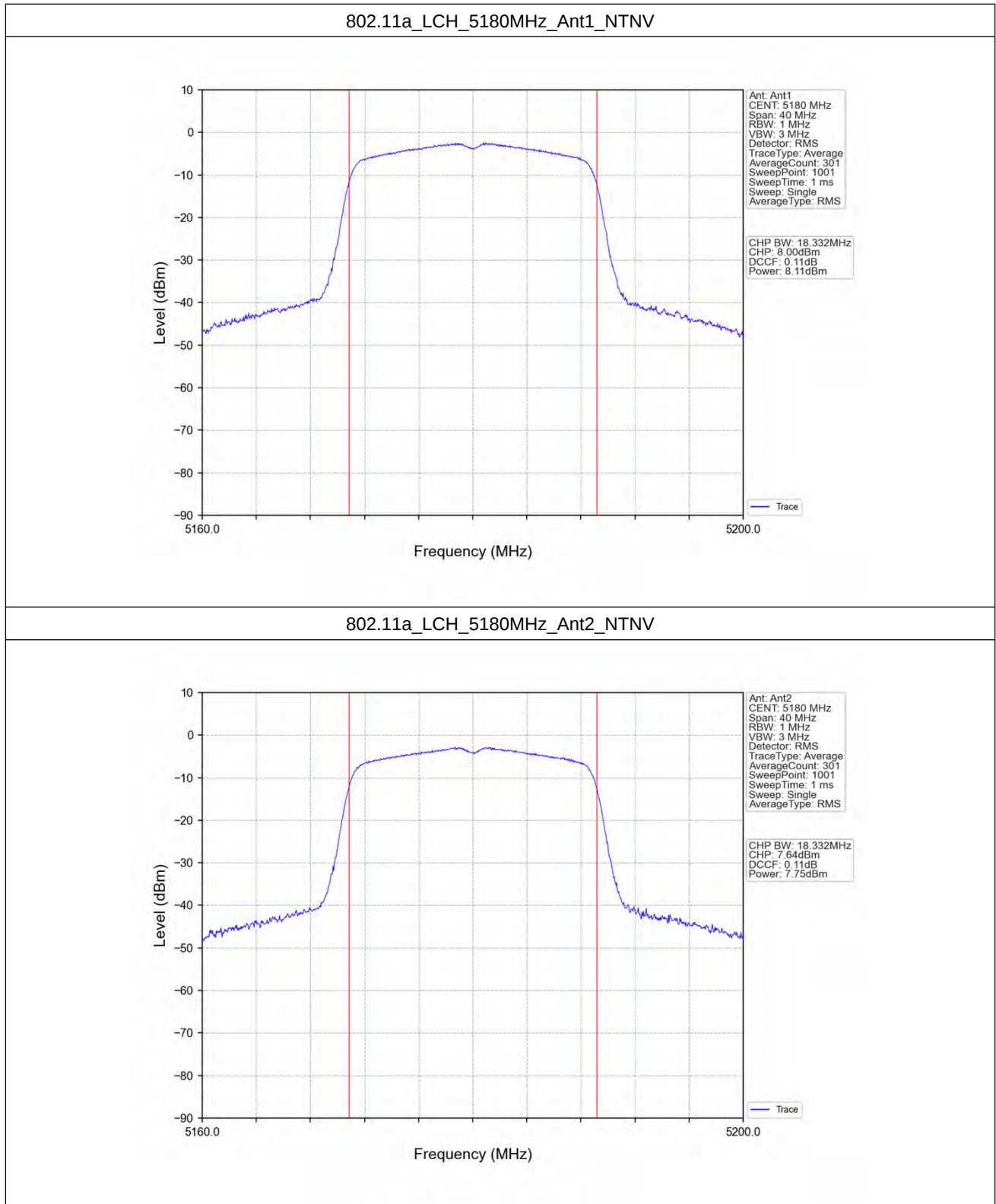
3. Maximum Conducted Output Power

3.1 Power

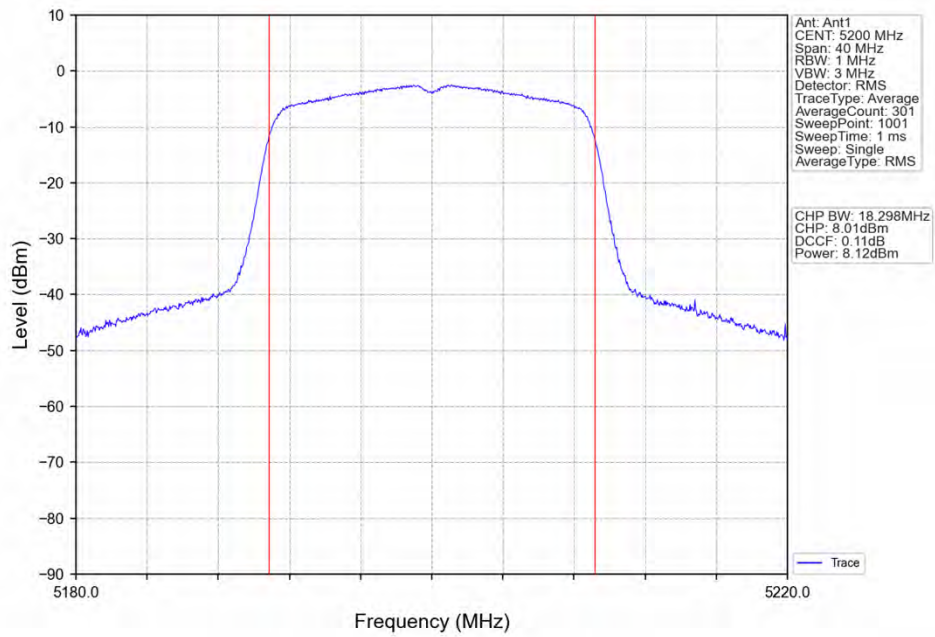
3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	8.11	7.75	/	<=23.98	Pass
		5200	8.12	8.01	/	<=23.98	Pass
		5240	8.40	8.69	/	<=23.98	Pass
		5745	8.25	8.02	/	<=30	Pass
		5785	7.41	9.36	/	<=30	Pass
		5825	7.12	10.47	/	<=30	Pass
802.11n (HT20)	MIMO	5180	7.92	7.64	10.79	<=23.98	Pass
		5200	7.99	8.17	11.09	<=23.98	Pass
		5240	8.31	8.76	11.55	<=23.98	Pass
		5745	9.05	9.54	12.31	<=30	Pass
		5785	9.14	9.64	12.41	<=30	Pass
		5825	8.80	10.26	12.60	<=30	Pass
802.11n (HT40)	MIMO	5190	8.92	8.83	11.89	<=23.98	Pass
		5230	8.64	9.33	12.01	<=23.98	Pass
		5755	9.38	9.35	12.38	<=30	Pass
		5795	9.29	10.14	12.75	<=30	Pass
802.11ac (VHT20)	MIMO	5180	8.63	8.50	11.58	<=23.98	Pass
		5200	8.67	8.85	11.77	<=23.98	Pass
		5240	8.36	9.30	11.87	<=23.98	Pass
		5745	9.01	9.38	12.21	<=30	Pass
		5785	8.87	9.69	12.31	<=30	Pass
		5825	8.31	10.30	12.43	<=30	Pass
802.11ac (VHT40)	MIMO	5190	8.85	8.85	11.86	<=23.98	Pass
		5230	8.67	9.34	12.03	<=23.98	Pass
		5755	9.13	9.17	12.16	<=30	Pass
		5795	8.94	10.11	12.57	<=30	Pass
802.11ac (VHT80)	MIMO	5210	8.98	9.35	12.18	<=23.98	Pass
		5775	9.20	9.70	12.47	<=30	Pass
Note1: Antenna Gain: Ant1: 0.43dBi; Ant2: 0.43dBi;							
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)							

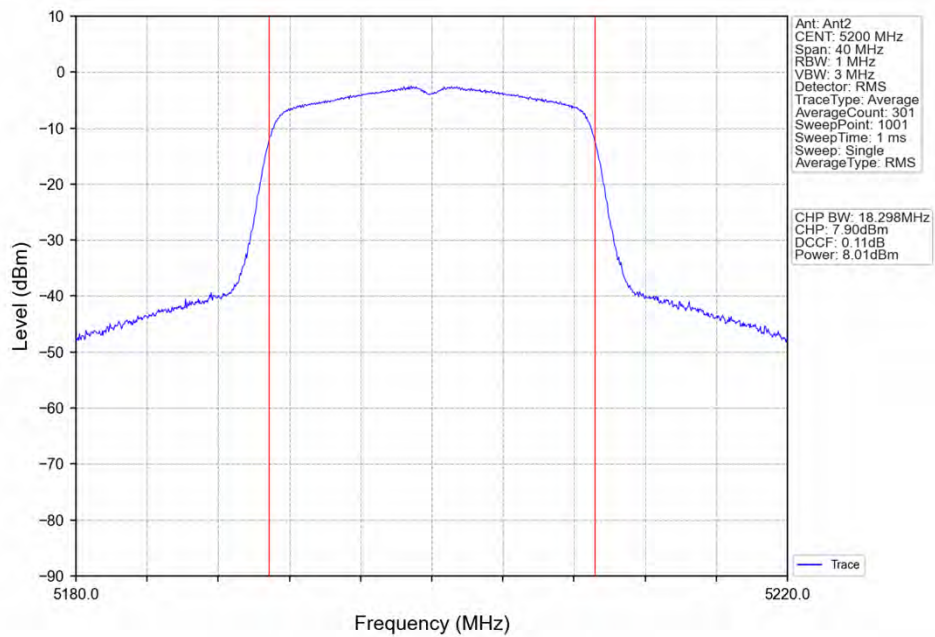
3.1.2 Test Graph



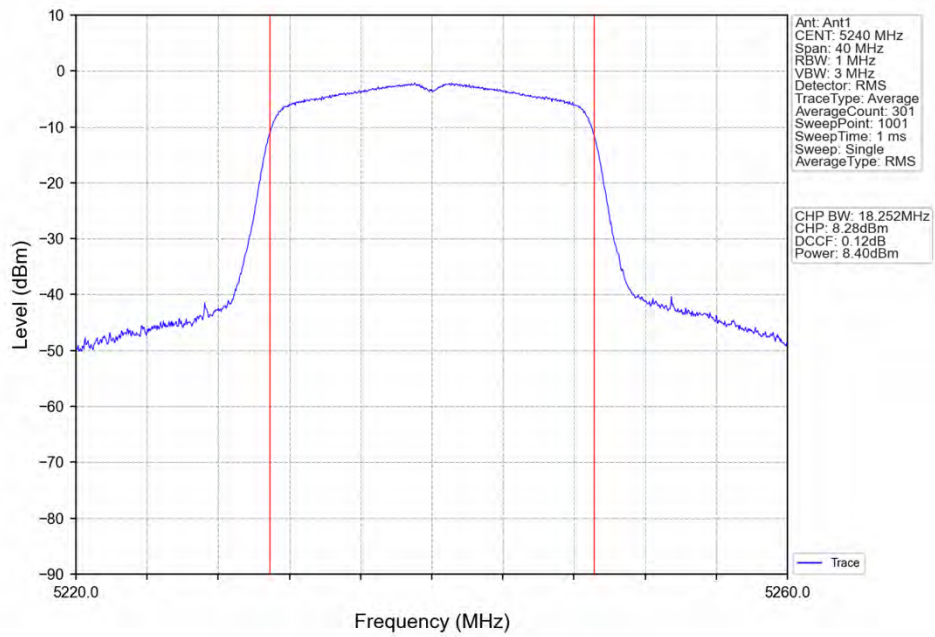
802.11a_MCH_5200MHz_Ant1_NTNV



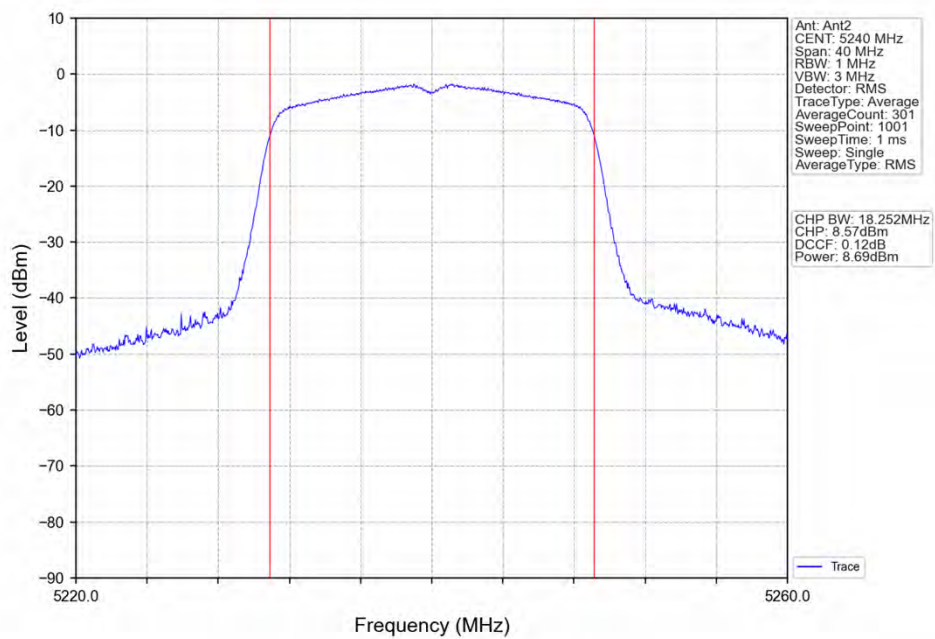
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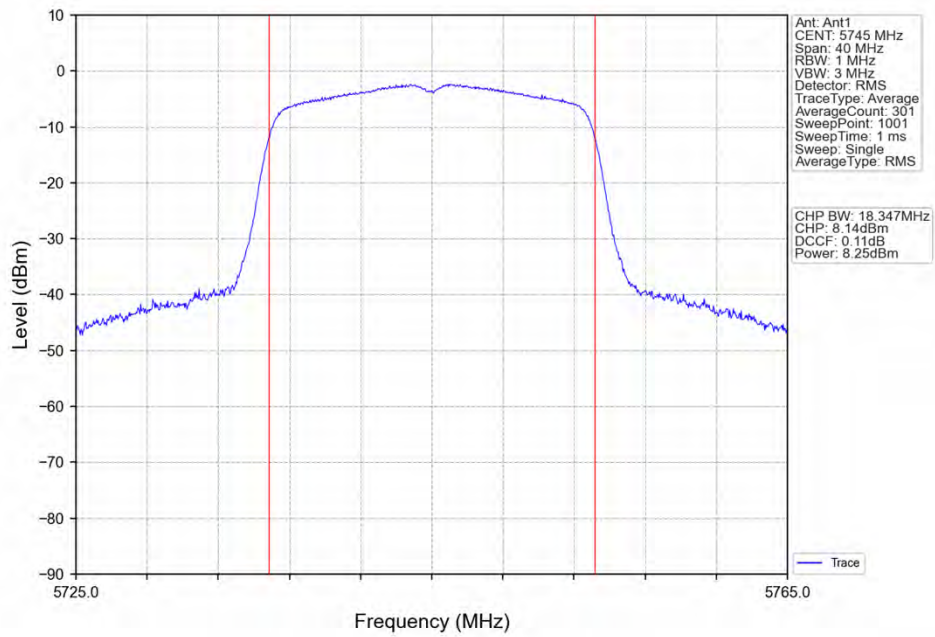
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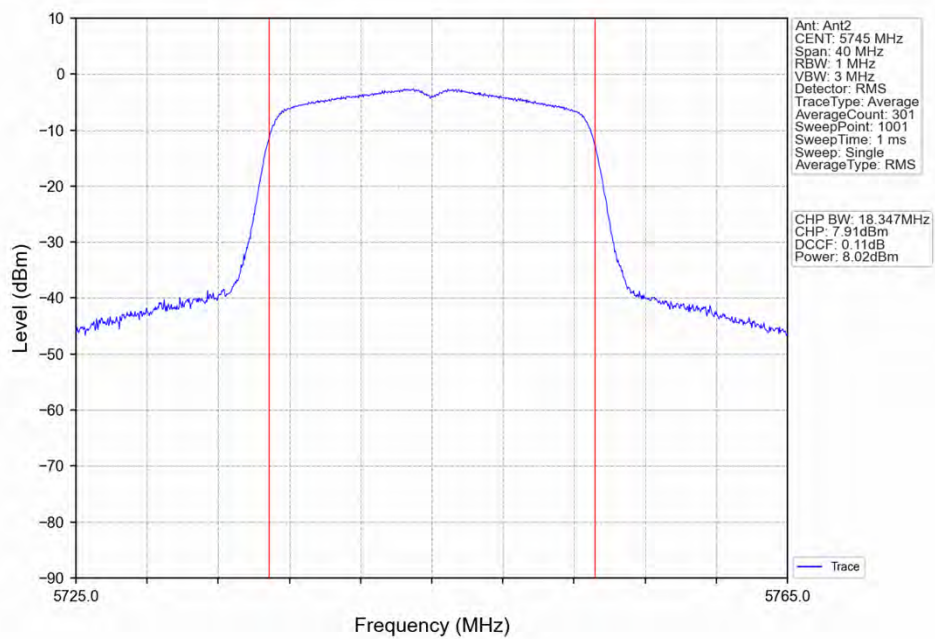
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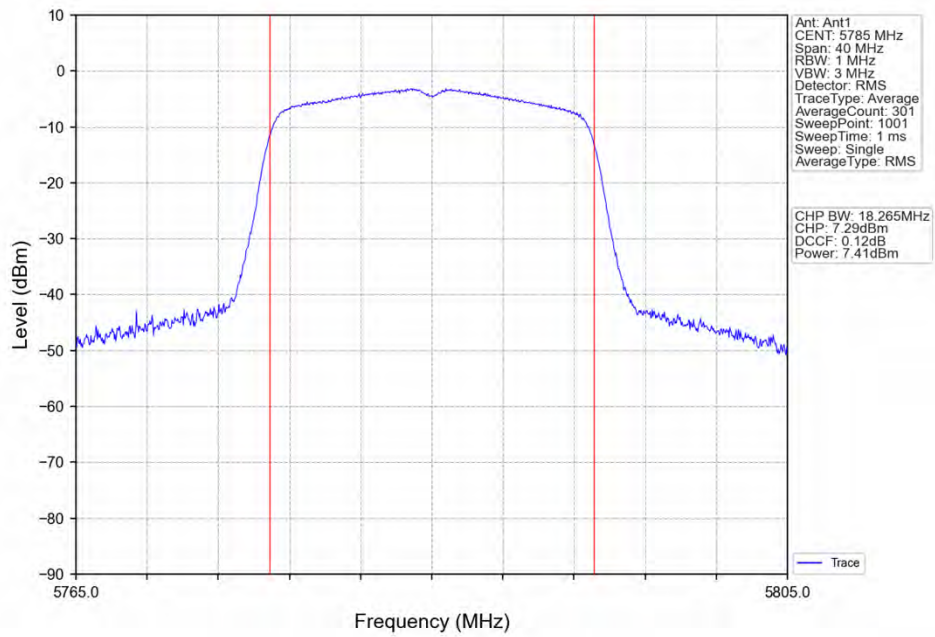
802.11a_LCH_5745MHz_Ant1_NTNV



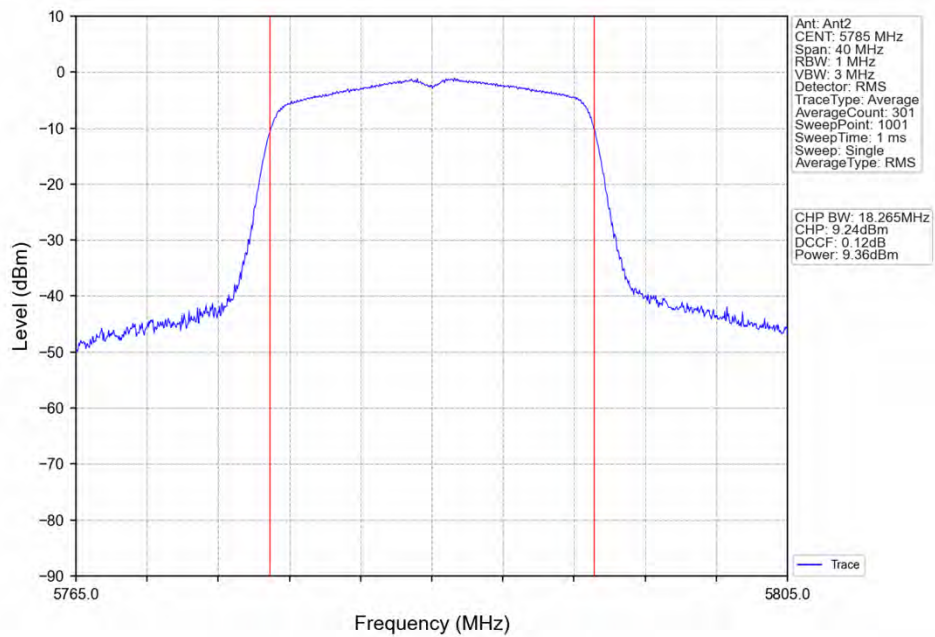
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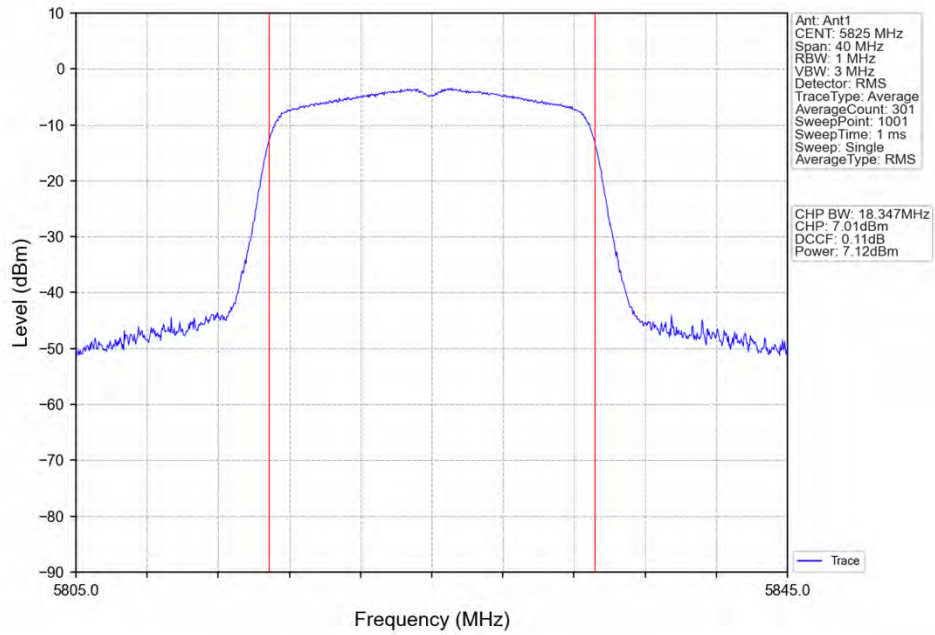
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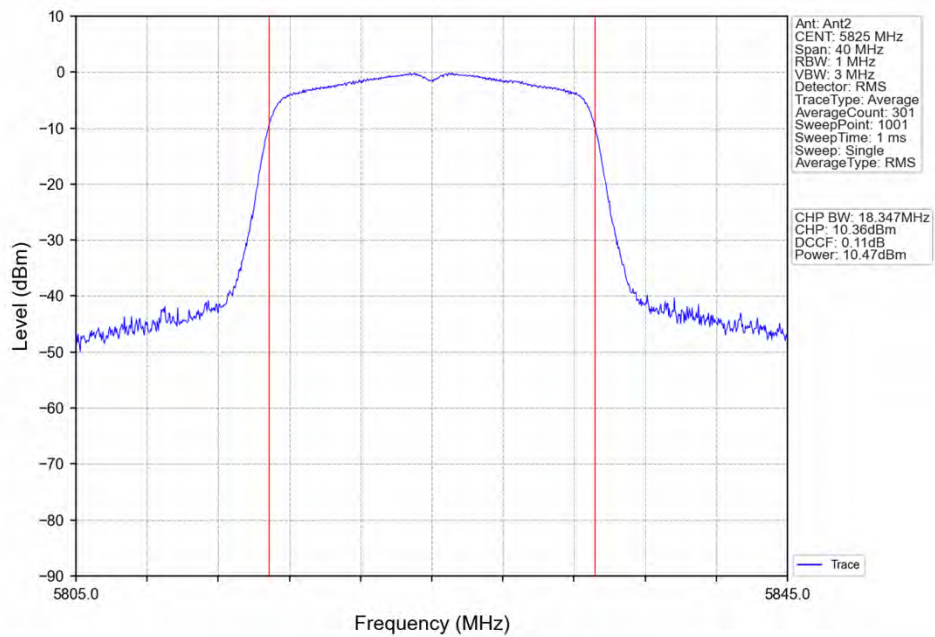
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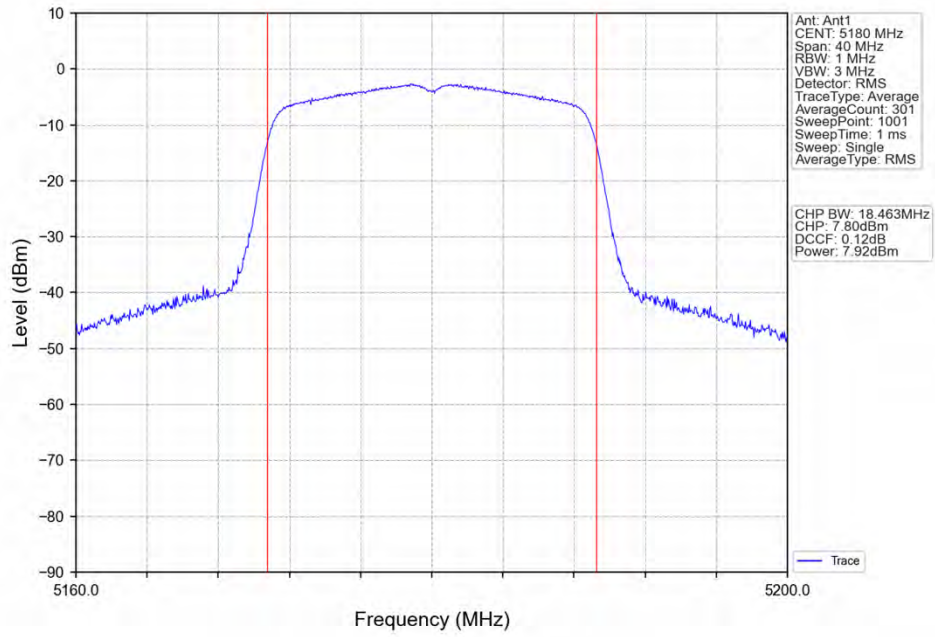
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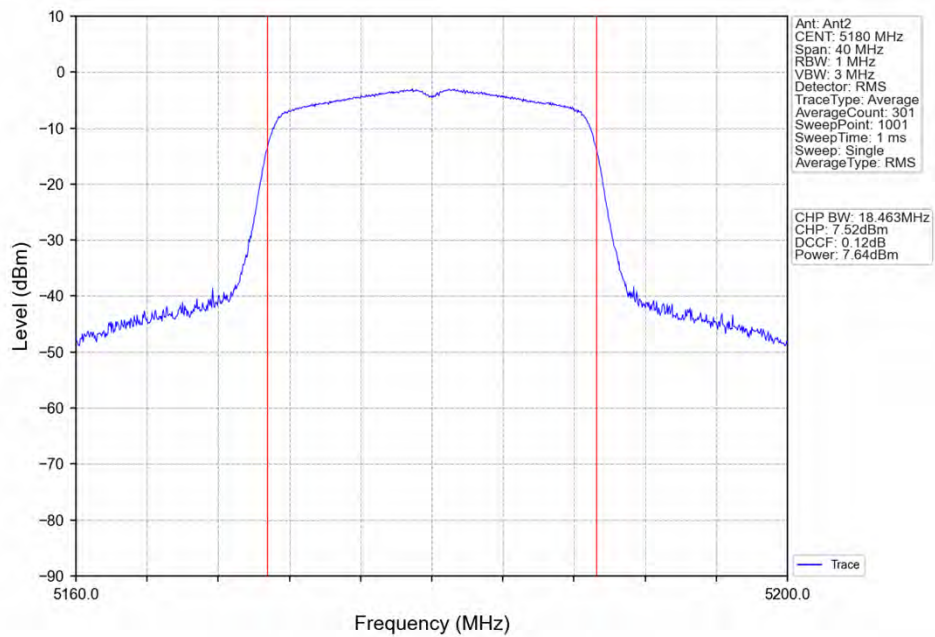
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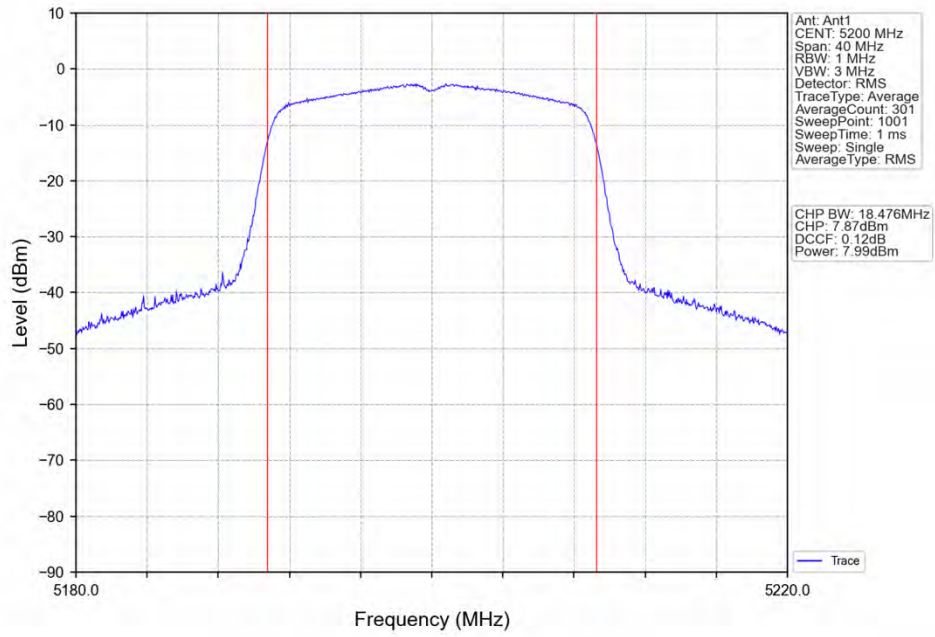
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



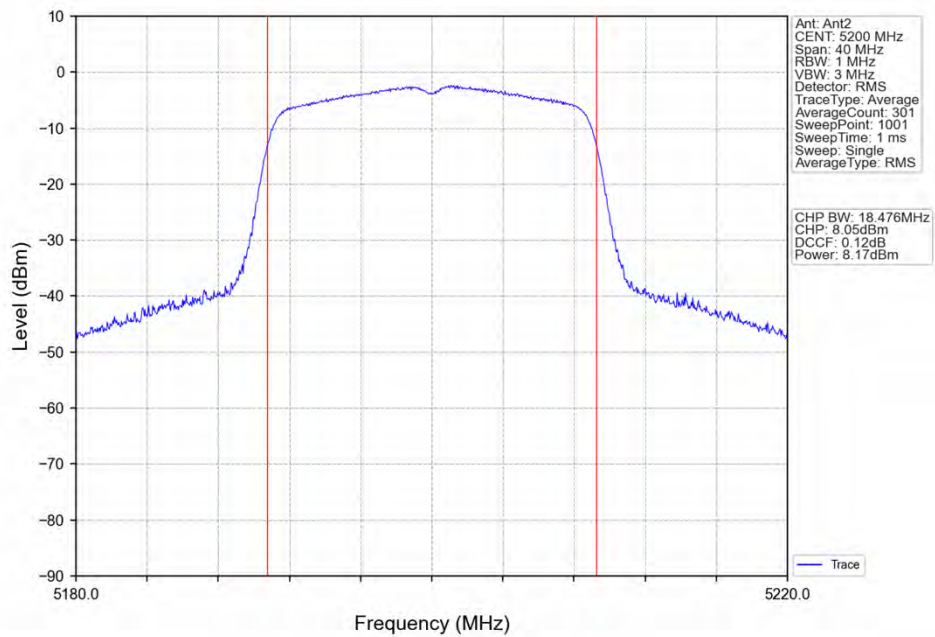
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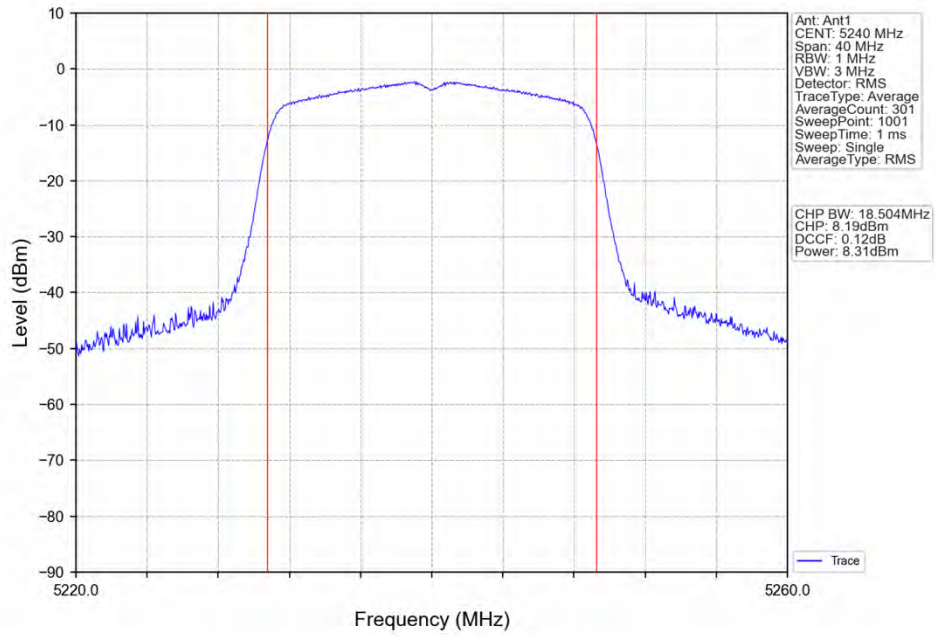
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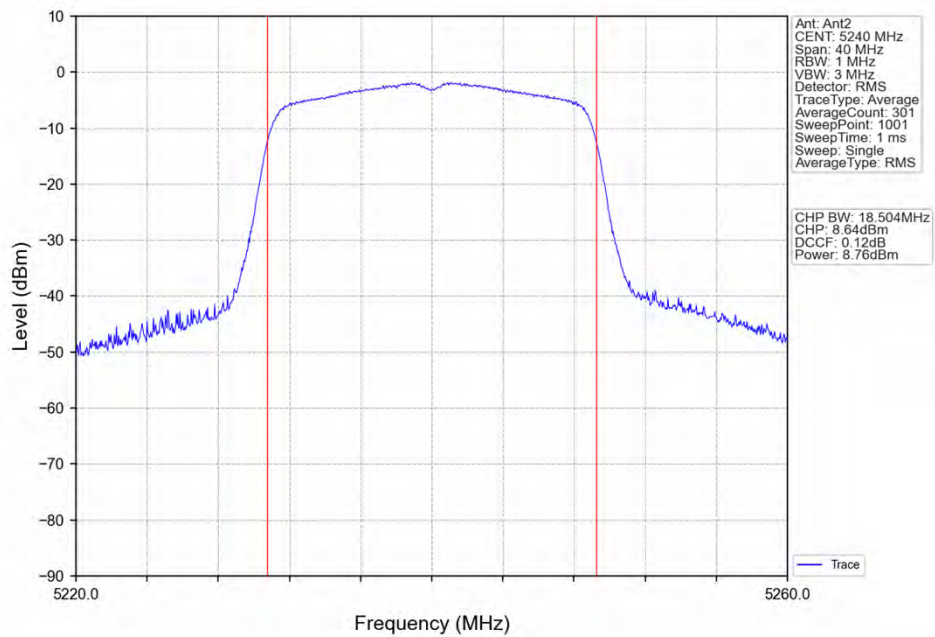
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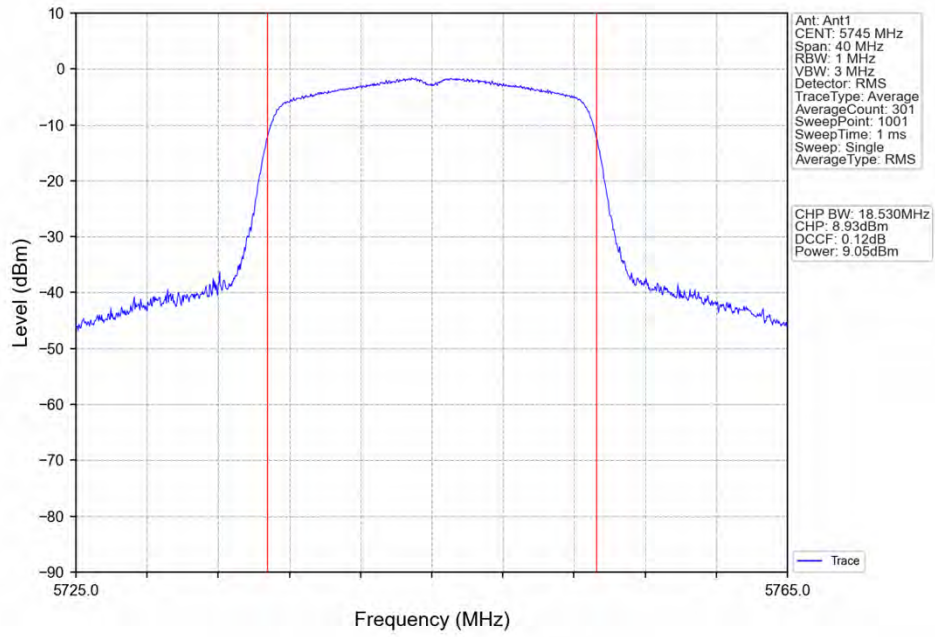
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant2_NTNV

