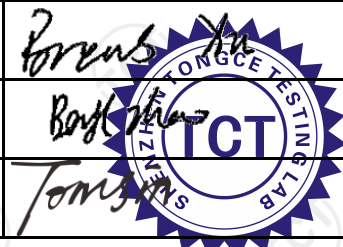


TEST REPORT

FCC ID. :	2A5ZX-SSB8T323
Test Report No..... :	TCT220921E026
Date of issue..... :	Sep. 29, 2022
Testing laboratory	SHENZHEN TONGCE TESTING LAB
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
Applicant's name..... :	Zhejiang Lianyong mobile terminal equipment manufacturing Co., Ltd.
Address..... :	No.1, First Street, Eastern New Area, Wenling, Taizhou, Zhejiang, China
Manufacturer's name ... :	Zhejiang Lianyong mobile terminal equipment manufacturing Co., Ltd.
Address..... :	No.1, First Street, Eastern New Area, Wenling, Taizhou, Zhejiang, China
Standard(s)	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Product Name..... :	Tablet PC
Trade Mark	Maze Speed, SOHO STYLE, LUSH MINT, TRUE SLIM
Model/Type reference..... :	SSB8T323, SS8T323, LM8T323, TS8T323
Rating(s)..... :	DC 5V
Date of receipt of test item	Sep. 21, 2022
Date (s) of performance of test..... :	Aug. 26, 2022 ~ Sep. 29, 2022
Tested by (+signature) ... :	Brews XU
Check by (+signature).... :	Beryl ZHAO
Approved by (+signature):	Tomsin



General disclaimer:

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

TABLE OF CONTENTS

1. General Product Information	3
1.1. EUT description	3
1.2. Model(s) list.....	3
1.3. Test Frequency	4
2. Test Result Summary	5
3. General Information.....	6
3.1. Test environment and mode.....	6
3.2. Description of Support Units	7
4. Facilities and Accreditations	8
4.1. Facilities	8
4.2. Location	8
4.3. Measurement Uncertainty	8
5. Test Results and Measurement Data	9
5.1. Antenna requirement	9
5.2. Conducted Emission.....	10
5.3. Maximum Conducted Output Power	14
5.4. 6dB Emission Bandwidth.....	16
5.5. 26dB Bandwidth and 99% Occupied Bandwidth	17
5.6. Power Spectral Density.....	18
5.7. Band edge	19
5.8. Unwanted Emissions	24
5.9. Frequency Stability Measurement	33
Appendix A: Test Result of Conducted Test	61
Appendix B: Photographs of Test Setup	223
Appendix C: Photographs of EUT	225

1. General Product Information

1.1. EUT description

Product Name.....:	Tablet PC
Model/Type reference.....:	SSB8T323
Sample Number.....:	TCT220921E019-0101
Operation Frequency	Band 1: 5180 MHz ~ 5240 MHz Band 2A: 5260 MHz ~ 5320 MHz Band 2C: 5500 MHz ~ 5700 MHz Band 3: 5745 MHz ~ 5825 MHz
Channel Bandwidth.....:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz, 80MHz
Modulation Technology	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type.....:	FPC Antenna
Antenna Gain.....:	0.24dBi
Rating(s).....:	DC 5V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	SSB8T323	☒
Other models	SS8T323, LM8T323, TS8T323	☐

Note: SSB8T323 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names and trade mark. So the test data of SSB8T323 can represent the remaining models.

1.3. Test Frequency

Band 1

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180	38	5190	42	5210
40	5200	46	5230		
48	5240				

Band 2A

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260	54	5270	58	5290
60	5300	62	5310		
64	5320				

Band 2C

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
100	5500	102	5510	106	5530
120	5600	118	5590	122	5610
140	5700	134	5670		

Band 3

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745	151	5755	155	5775
157	5785	159	5795		
165	5825				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(a)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(b)	PASS
Radiated Emission	§15.407(b)	PASS
Frequency Stability	§15.407(g)	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.
5. For the band 5.15-5.25GHz, EUT meet the requirements of 15.407(a)(ii).

3. General Information

3.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Software:	
Software Information:	Engineering mode
Power Level:	13
Test Mode:	
Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery.
The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	6.5 Mbps
802.11n(HT40)	13.5 Mbps
802.11ac(VHT20)	6.5 Mbps
802.11ac(VHT40)	13.5 Mbps
802.11ac(VHT80)	29.3 Mbps

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

4. Facilities and Accreditations

4.1. Facilities

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

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

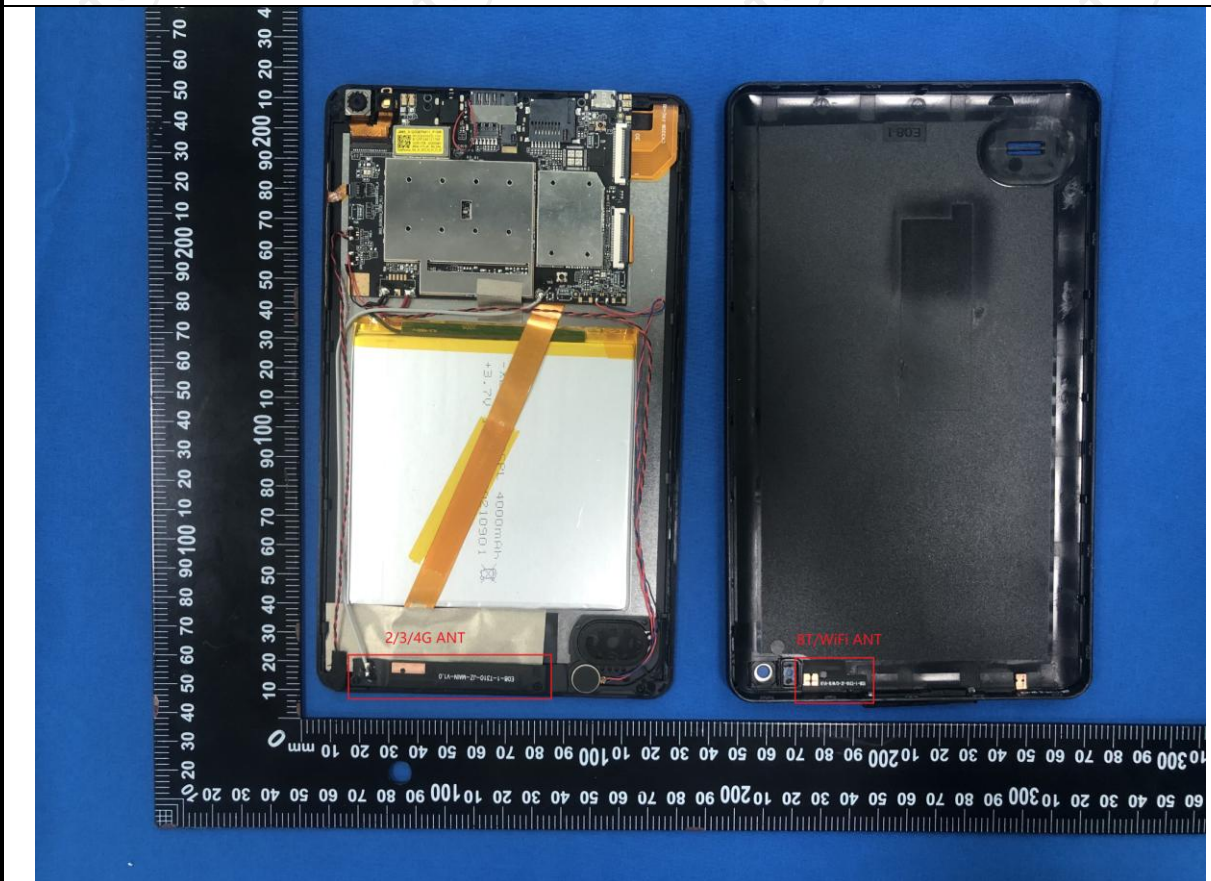
The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
The EUT antenna is FPC antenna which permanently attached, and the best case gain of the antenna is 0.24dBi.	



5.2. Conducted Emission

5.2.1. Test Specification

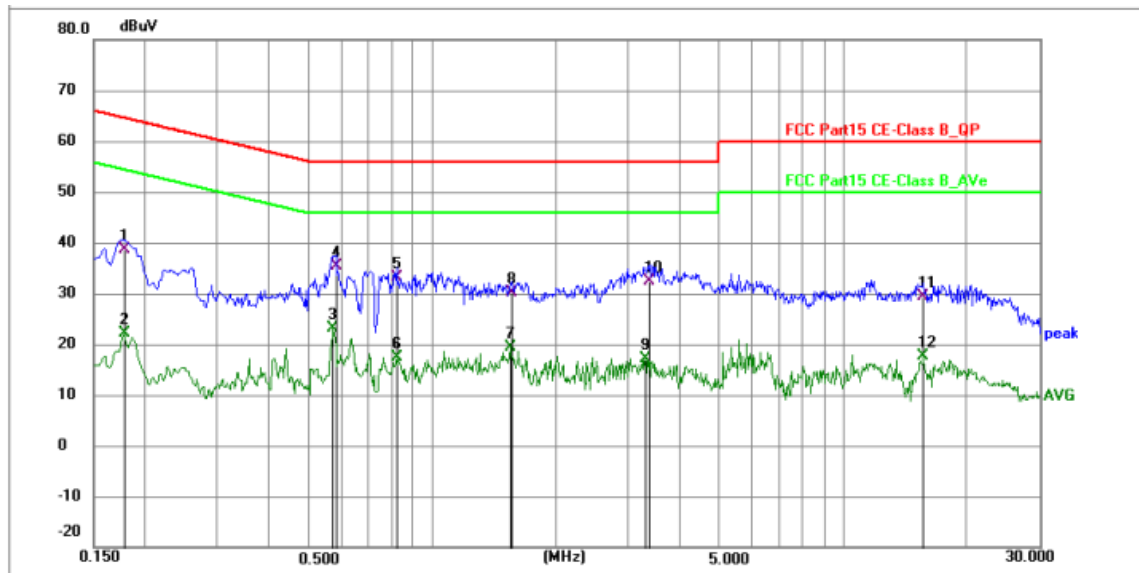
Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	Reference Plane  Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Charging + Transmitting Mode														
Test Procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.														
Test Result:	PASS														

5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jul. 03, 2023
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 24, 2023
Line-5	TCT	CE-05	/	Jul. 03, 2023
EMI Test Software	Shurple Technology	EZ-EMC	/	/

5.2.3. Test data

Please refer to following diagram for individual
Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Detector	P/F	Remark
1	0.1770	28.49	10.21	38.70	64.63	-25.93	QP	P	
2	0.1770	11.89	10.21	22.10	54.63	-32.53	AVG	P	
3	0.5730	12.92	10.26	23.18	46.00	-22.82	AVG	P	
4 *	0.5820	25.17	10.25	35.42	56.00	-20.58	QP	P	
5	0.8205	22.77	10.24	33.01	56.00	-22.99	QP	P	
6	0.8205	7.12	10.24	17.36	46.00	-28.64	AVG	P	
7	1.5450	9.15	10.24	19.39	46.00	-26.61	AVG	P	
8	1.5630	19.80	10.24	30.04	56.00	-25.96	QP	P	
9	3.3043	6.95	10.28	17.23	46.00	-28.77	AVG	P	
10	3.3765	22.14	10.28	32.42	56.00	-23.58	QP	P	
11	15.7020	19.55	9.90	29.45	60.00	-30.55	QP	P	
12	15.7020	7.71	9.90	17.61	50.00	-32.39	AVG	P	

Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

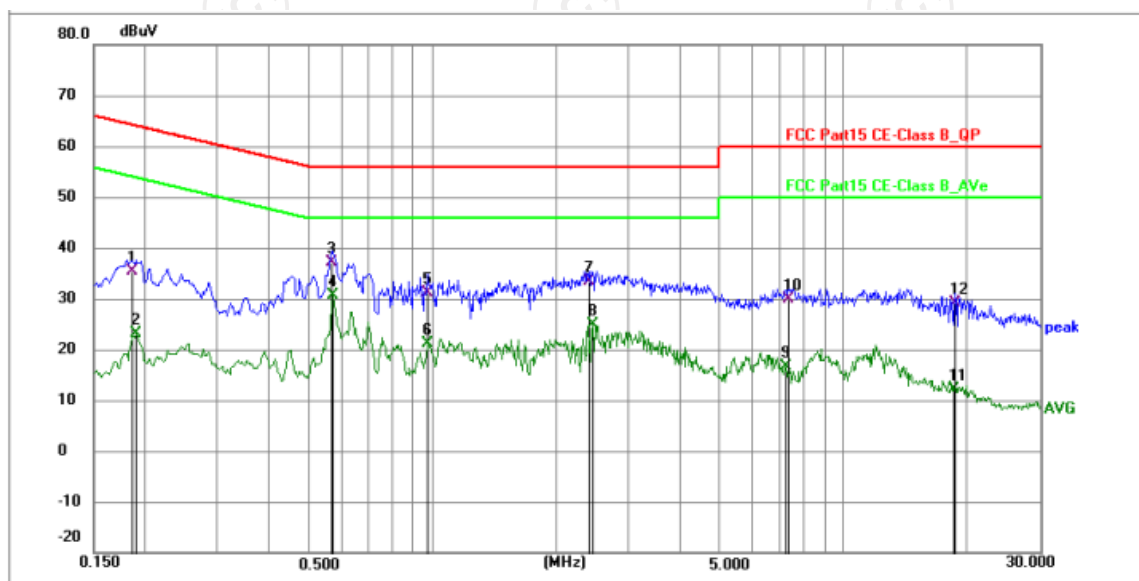
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1860	25.25	10.17	35.42	64.21	-28.79	QP	P	
2	0.1892	12.85	10.18	23.03	54.07	-31.04	AVG	P	
3	0.5685	26.75	10.26	37.01	56.00	-18.99	QP	P	
4 *	0.5730	20.33	10.26	30.59	46.00	-15.41	AVG	P	
5	0.9780	20.78	10.26	31.04	56.00	-24.96	QP	P	
6	0.9780	10.96	10.26	21.22	46.00	-24.78	AVG	P	
7	2.4000	23.15	10.27	33.42	56.00	-22.58	QP	P	
8	2.4495	14.68	10.27	24.95	46.00	-21.05	AVG	P	
9	7.2150	6.43	10.31	16.74	50.00	-33.26	AVG	P	
10	7.3365	19.46	10.32	29.78	60.00	-30.22	QP	P	
11	18.5820	2.35	9.89	12.24	50.00	-37.76	AVG	P	
12	18.6540	19.15	9.89	29.04	60.00	-30.96	QP	P	

Note:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

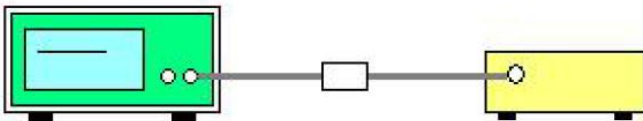
AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80) and the worst case Mode (Lowest channel and 802.11n(HT20)) was submitted only.

5.3. Maximum Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046		
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E		
Limit:	Frequency (MHz)	Band	Limit
	5180 - 5240		24dBm(250mW) for client device
	5260 - 5320		24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz
	5470 - 5725		24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz
	5745 - 5825		30dBm(1W)
Test Setup:	 Power meterEUT		
Test Mode:	Transmitting mode with modulation		
Test Procedure:	1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 5. Measure the conducted output power and record the results in the test report.		
Test Result:	PASS		
Remark:	Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power		

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Jul. 04, 2023
Power Meter	Agilent	E4418B	MY45100357	Jul. 04, 2023
Power Sensor	Agilent	8481A	MY41091497	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.4. 6dB Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.5. 26dB Bandwidth and 99% Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Limit:	No restriction limits
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.6. Power Spectral Density

5.6.1. Test Specification

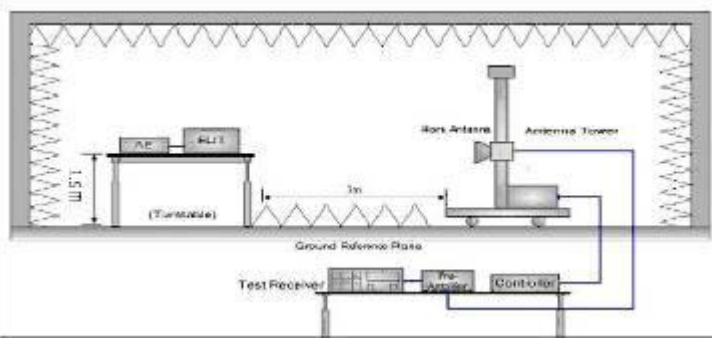
Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5250-5350&5470-5725 ≤30.00dBm/500KHz for Band 3 5725MHz-5850MHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	- Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. - Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. - Allow the sweeps to continue until the trace stabilizes. - Use the peak marker function to determine the maximum amplitude level.
Test Result:	PASS

5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.7. Band edge

5.7.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407																				
Test Method:	ANSI C63.10 2013																				
Limit:	In un-restricted band: For Band 1&2A&2C: -27dBm/MHz For Band 3:																				
	<table><tr><th>Frequency (MHz)</th><th>Limit (dBm/MHz)</th><th>Frequency (MHz)</th><th>Limit (dBm/MHz)</th></tr><tr><td>< 5650</td><td>-27</td><td>5850~5855</td><td>27~15.6</td></tr><tr><td>650~5700</td><td>-27~10</td><td>5855~5875</td><td>15.6~10</td></tr><tr><td>5700~5720</td><td>10~15.6</td><td>5875~5925</td><td>10~-27</td></tr><tr><td>5720~5725</td><td>15.6~27</td><td>> 5925</td><td>-27</td></tr></table>	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)	< 5650	-27	5850~5855	27~15.6	650~5700	-27~10	5855~5875	15.6~10	5700~5720	10~15.6	5875~5925	10~-27	5720~5725	15.6~27	> 5925	-27
	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)																	
	< 5650	-27	5850~5855	27~15.6																	
	650~5700	-27~10	5855~5875	15.6~10																	
5700~5720	10~15.6	5875~5925	10~-27																		
5720~5725	15.6~27	> 5925	-27																		
E[dBμV/m] = EIRP[dBm] + 95.2 @3m																					
In restricted band:																					
<table><tr><th>Detec or</th><th>Limit@3m</th></tr><tr><td>Peak</td><td>74dBμV/m</td></tr><tr><td>AVG</td><td>54dBμV/m</td></tr></table>		Detec or	Limit@3m	Peak	74dBμV/m	AVG	54dBμV/m														
Detec or	Limit@3m																				
Peak	74dBμV/m																				
AVG	54dBμV/m																				
Test Setup:																					
Test Mode:	Transmitting mode with modulation																				
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold																				

	Mode. 6. 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, quasipeak or average method as specified and then reported in a data sheet.
Test Result:	PASS

5.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 03, 2023
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 03, 2023
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Feb. 24, 2023
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Feb. 24, 2023
Pre-amplifier	HP	8447D	2727A05017	Jul. 03, 2023
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 11, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 05, 2024
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 05, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Coaxial cable	SKET	RC-18G-N-M	/	Feb. 24, 2024
Coaxial cable	SKET	RC_40G-K-M	/	Feb. 24, 2024
Antenna Mast	Keleto	CC-A-4M	/	/
EMI Test Software	Shurple Technology	EZ-EMC	/	/

5.7.3. Test Data

U-NII-1 & U-NII-2A		Worst mode: 802.11a				Test channel: CH _L			
Polarization:					Horizontal				
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1	5049.500	-4973.91	5017.76	43.85	68.20	-24.35	peak	P
	2 *	5150.000	-5070.43	5117.98	47.55	68.20	-20.65	peak	P
Polarization:					Vertical				
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1	5029.100	75.34	-31.68	43.66	68.20	-24.54	peak	P
	2 *	5150.000	81.07	-32.02	49.05	68.20	-19.15	peak	P

U-NII-1 & U-NII-2A		Worst mode: 802.11a				Test channel: CH _H			
Polarization:					Horizontal				
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1 *	5350.000	44.82	0.87	45.69	68.20	-22.51	peak	P
	2	5452.160	43.51	0.68	44.19	68.20	-24.01	peak	P
Polarization:					Vertical				
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1 *	5350.000	46.56	-0.87	45.69	68.20	-22.51	peak	P
	2	5396.880	43.30	-0.97	42.33	68.20	-25.87	peak	P

U-NII-2C		Worst mode: 802.11a					Test channel: CH _L		
Polarization:					Horizontal				
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1	5387.280	41.56	0.81	42.37	68.20	-25.83	peak	P
	2 *	5470.000	46.55	0.65	47.20	68.20	-21.00	peak	P
Polarization:					Vertical				
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1	5388.080	41.28	0.81	42.09	68.20	-26.11	peak	P
	2 *	5470.000	45.19	0.65	45.84	68.20	-22.36	peak	P

U-NII-2C		Worst mode: 802.11a				Test channel: CH _H		
Polarization:					Horizontal			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5725.000	88.78	-32.41	56.37	68.20	-11.83	peak	P
2	5740.550	83.17	-32.37	50.80	68.20	-17.40	peak	P

Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5725.000	87.78	-32.41	55.37	68.20	-12.83	peak	P
2	5731.850	87.32	-32.40	54.92	68.20	-13.28	peak	P

U-NII-3		Worst mode: 802.11a				Test channel: CH _L		
Polarization:					Horizontal			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5631.625	74.58	-32.66	41.92	68.20	-26.28	peak	P
2	5689.250	76.29	-32.51	43.78	97.59	-53.81	peak	P
3	5710.750	83.91	-32.45	51.46	108.40	-56.94	peak	P
4	5723.000	94.07	-32.42	61.65	117.64	-55.99	peak	P
5	5735.000	109.81	-32.39	77.42	122.20	-44.78	peak	P

Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5640.125	74.66	-32.64	42.02	68.20	-26.18	peak	P
2	5688.000	75.67	-32.51	43.16	96.65	-53.49	peak	P
3	5711.875	86.18	-32.45	53.73	108.69	-54.96	peak	P
4	5722.125	91.58	-32.42	59.16	115.65	-56.49	peak	P
5	5735.000	109.81	-32.39	77.42	122.20	-44.78	peak	P

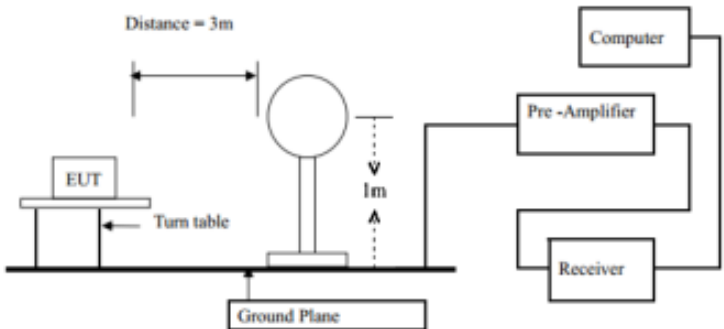
U-NII-3			Worst mode: 802.11a				Test channel: CH _H		
Polarization:					Horizontal				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1	5835.000	73.99	2.07	76.06	122.20	-46.14	peak	P	
2	5851.625	57.97	2.11	60.08	118.49	-58.41	peak	P	
3	5864.750	49.84	2.15	51.99	108.26	-56.27	peak	P	
4	5903.750	41.37	2.25	43.62	84.06	-40.44	peak	P	
5 *	5935.250	40.65	2.33	42.98	68.20	-25.22	peak	P	

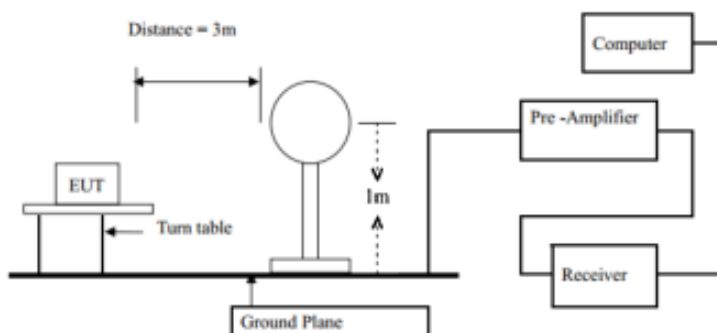
Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5835.000	71.29	4.77	76.06	122.20	-46.14	peak	P
2	5851.000	54.81	4.81	59.62	119.92	-60.30	peak	P
3	5865.375	49.29	4.85	54.14	108.10	-53.96	peak	P
4	5915.625	38.29	4.98	43.27	75.19	-31.92	peak	P
5 *	5935.250	37.95	5.03	42.98	68.20	-25.22	peak	P

Note: All modulation (802.11a, 802.11n, 802.11ac) have been tested, only the worst case in 802.11a be reported.

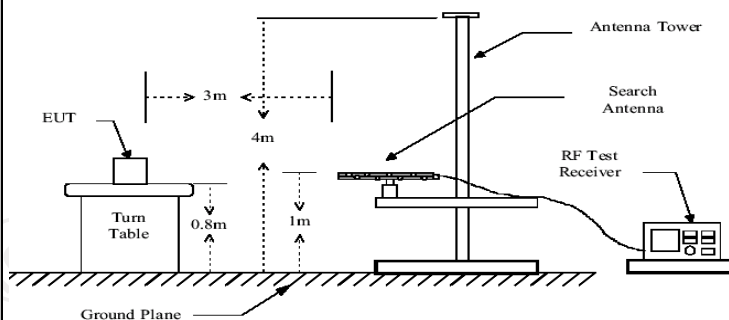
5.8. Unwanted Emissions

5.8.1. Test Specification

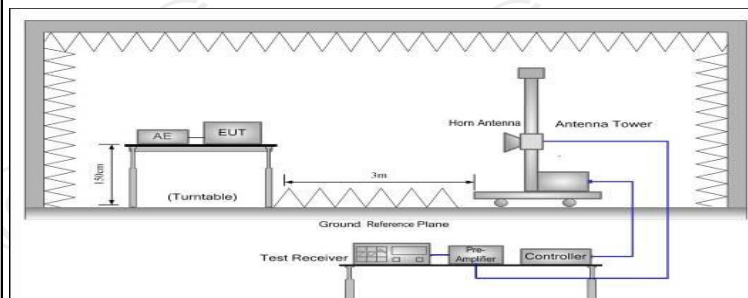
Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205				
Test Method:	KDB 789033 D02 v02r01				
Frequency Range:	9kHz to 40GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Operation mode:	Transmitting mode with modulation				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	10Hz	Average Value	
Limit:	Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table, In restricted bands:				
	Frequency		Detector		Limit@3m
	Above 1G		Peak		74dBµV/m
			AVG		54dBµV/m
	Frequency		Field Strength (microvolts/meter)	Measurement Distance (meters)	
	0.009-0.490		2400/F(KHz)	300	
	0.490-1.705		24000/F(KHz)	3	
	1.705-30		30	30	
	30-88		100	3	
	88-216		150	3	
	216-960		200	3	
	Above 960		500	3	
Test setup:	In un-restricted bands: 68.2dBµV/m				
	For radiated emissions below 30MHz				
Test setup:					
	30MHz to 1GHz				



30MHz to 1GHz



Above 1GHz



Test Procedure:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. 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.
4. 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 and the rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. 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.

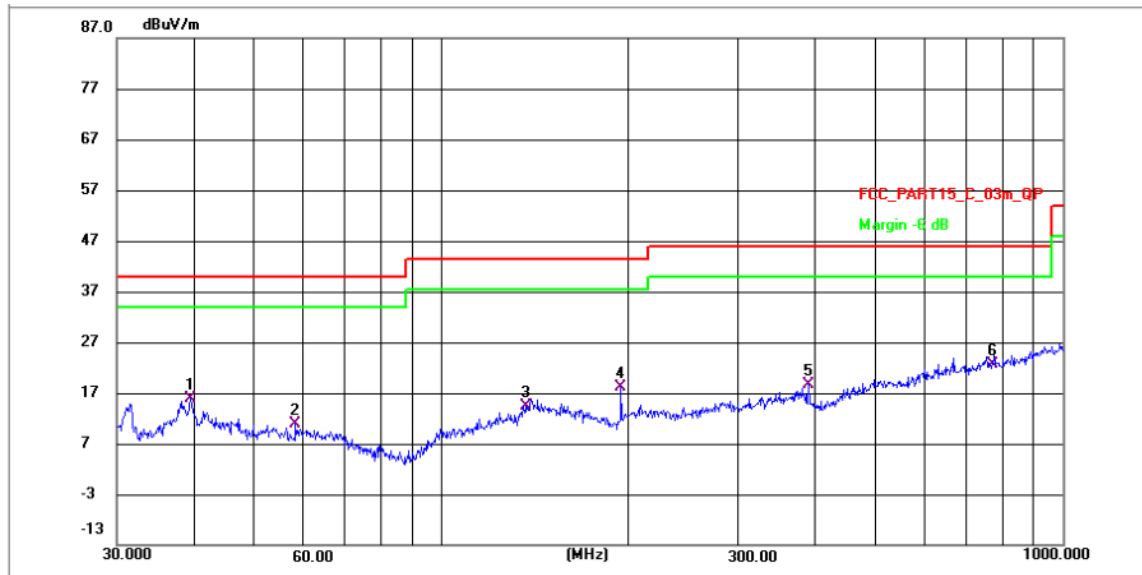
Test results:

PASS

5.8.2. Test Data

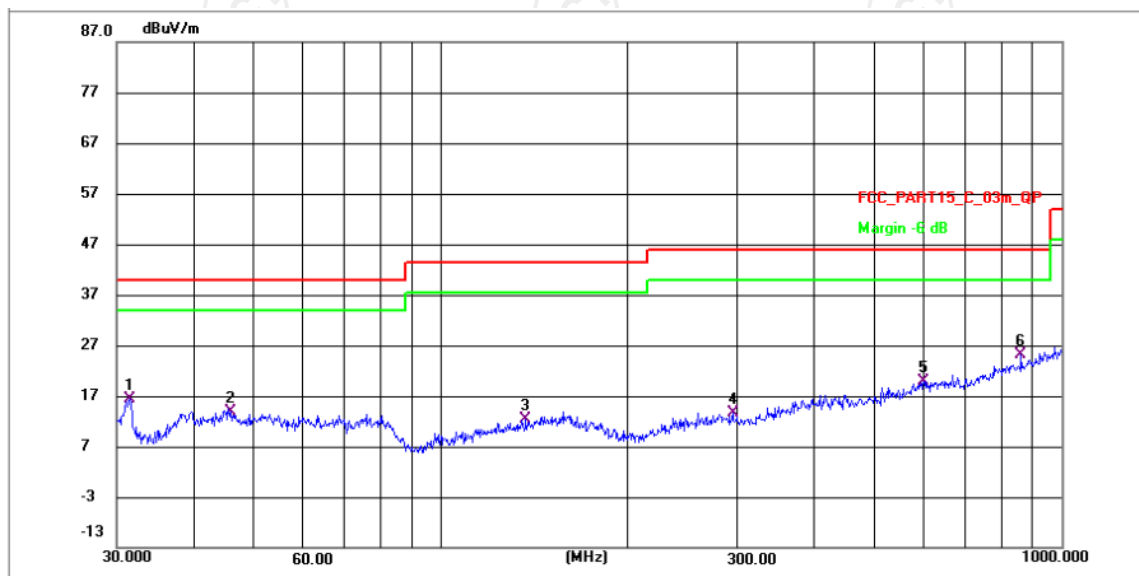
Please refer to following diagram for individual
Below 1GHz

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	39.4371	43.96	-28.16	15.80	40.00	-24.20	QP	P
2	58.2030	38.74	-27.95	10.79	40.00	-29.21	QP	P
3	136.9391	41.81	-27.33	14.48	43.50	-29.02	QP	P
4	194.4534	45.10	-27.03	18.07	43.50	-25.43	QP	P
5	389.3548	44.38	-25.83	18.55	46.00	-27.45	QP	P
6 *	774.1584	47.79	-25.11	22.68	46.00	-23.32	QP	P

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	31.5095	32.23	-15.81	16.42	40.00	-23.58	QP	P
2	45.8553	41.91	-28.09	13.82	40.00	-26.18	QP	P
3	136.9391	39.69	-27.33	12.36	43.50	-31.14	QP	P
4	295.1468	40.30	-26.57	13.73	46.00	-32.27	QP	P
5	599.3212	45.12	-25.14	19.98	46.00	-26.02	QP	P
6 *	860.0351	49.76	-24.74	25.02	46.00	-20.98	QP	P

- Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported
2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80) and the worst case Mode (Lowest channel and 802.11n(HT20)) was submitted only.
3. Measurement (dBμV) = Reading level + Correction Factor, correction Factor= Antenna Factor + Cable loss – Pre-amplifier.

1 GHz ~ 10th Harmonic

Note: The spurious from 18GHz-25GHz is noise only, don't show on the report.

U-NII-1 Worst mode: 802.11a Test channel: CH _L								
Polarization:					Horizontal			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2302.216	68.30	-31.48	36.82	68.20	-31.38	peak	P
2	4098.010	71.36	-31.62	39.74	68.20	-28.46	peak	P
3	6240.439	75.25	-31.80	43.45	68.20	-24.75	peak	P
4 *	9326.056	80.12	-33.17	46.95	68.20	-21.25	peak	P
Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1769.768	66.02	-30.24	35.78	68.20	-32.42	peak	P
2	4199.937	71.06	-31.64	39.42	68.20	-28.78	peak	P
3	6313.006	76.59	-31.83	44.76	68.20	-23.44	peak	P
4 *	9683.148	79.91	-33.34	46.57	68.20	-21.63	peak	P

U-NII-1 Worst mode: 802.11a Test channel: CH _M								
Polarization:					Horizontal			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2558.371	69.39	-31.34	38.05	68.20	-30.15	peak	P
2	4392.376	73.46	-31.68	41.78	68.20	-26.42	peak	P
3	8588.607	79.32	-34.41	44.91	68.20	-23.29	peak	P
4 *	12614.615	84.18	-33.86	50.32	68.20	-17.88	peak	P
Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2021.430	66.47	-30.20	36.27	68.20	-31.93	peak	P
2	3806.830	73.33	-31.48	41.85	68.20	-26.35	peak	P
3	7107.263	75.94	-33.23	42.71	68.20	-25.49	peak	P
4 *	10112.200	80.09	-34.39	45.70	68.20	-22.50	peak	P

U-NII-1 Worst mode: 802.11a Test channel: CH _H								
Polarization:					Horizontal			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2160.380	66.33	-30.84	35.49	68.20	-32.71	peak	P
2	3342.537	71.37	-31.17	40.20	68.20	-28.00	peak	P
3	4553.973	73.38	-31.69	41.69	68.20	-26.51	peak	P
4 *	9697.152	79.79	-33.37	46.42	68.20	-21.78	peak	P

Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2528.963	69.02	-31.37	37.65	68.20	-30.55	peak	P
2	4039.212	74.22	-31.61	42.61	68.20	-25.59	peak	P
3	4923.600	75.09	-31.62	43.47	68.20	-24.73	peak	P
4 *	12853.851	82.39	-33.89	48.50	68.20	-19.70	peak	P

U-NII-2A		Worst mode: 802.11a(HT20)				Test channel: CH _L			
Polarization:					Horizontal				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1	3714.443	71.70	-31.43	40.27	68.20	-27.93	peak	P	
2	7347.474	77.17	-33.30	43.87	68.20	-24.33	peak	P	
3	10744.999	80.71	-34.98	45.73	68.20	-22.47	peak	P	
4 *	12947.068	83.31	-33.89	49.42	68.20	-18.78	peak	P	

Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3969.767	72.53	-31.58	40.95	68.20	-27.25	peak	P
2	6845.164	76.94	-32.79	44.15	68.20	-24.05	peak	P
3	8891.725	79.38	-33.92	45.46	68.20	-22.74	peak	P
4 *	12184.584	80.76	-34.01	46.75	68.20	-21.45	peak	P

U-NII-2A		Worst mode: 802.11a(HT20)					Test channel: CH _M		
Polarization:					Horizontal				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1	3714.443	71.70	-31.43	40.27	68.20	-27.93	peak	P	
2	7347.474	77.17	-33.30	43.87	68.20	-24.33	peak	P	
3	10744.999	80.71	-34.98	45.73	68.20	-22.47	peak	P	
4 *	12947.068	83.31	-33.89	49.42	68.20	-18.78	peak	P	

Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3969.767	72.53	-31.58	40.95	68.20	-27.25	peak	P
2	6845.164	76.94	-32.79	44.15	68.20	-24.05	peak	P
3	8891.725	79.38	-33.92	45.46	68.20	-22.74	peak	P
4 *	12184.584	80.76	-34.01	46.75	68.20	-21.45	peak	P

U-NII-2A		Worst mode: 802.11a(HT20)					Test channel: CH _H		
Polarization:					Horizontal				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1	3924.135	70.96	-31.55	39.41	68.20	-28.79	peak	P	
2	6737.206	77.00	-32.52	44.48	68.20	-23.72	peak	P	
3	8878.884	78.99	-33.94	45.05	68.20	-23.15	peak	P	
4 *	13040.962	82.11	-33.88	48.23	68.20	-19.97	peak	P	

Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3087.140	70.57	-30.97	39.60	68.20	-28.60	peak	P
2	6331.280	76.88	-31.83	45.05	68.20	-23.15	peak	P
3	9258.909	81.04	-33.29	47.75	68.20	-20.45	peak	P
4 *	13697.751	83.73	-33.09	50.64	68.20	-17.56	peak	P

U-NII-2C		Worst mode: 802.11a(HT20)				Test channel: CH _L			
Polarization:					Horizontal				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1	1777.458	72.47	-30.23	42.24	68.20	-25.96	peak	P	
2	3608.619	71.69	-31.37	40.32	68.20	-27.88	peak	P	
3	7595.802	78.29	-33.55	44.74	68.20	-23.46	peak	P	
4 *	11516.829	80.28	-34.63	45.65	68.20	-22.55	peak	P	

Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3405.929	72.44	-31.23	41.21	68.20	-26.99	peak	P
2	6276.618	76.30	-31.81	44.49	68.20	-23.71	peak	P
3	9475.497	79.39	-32.91	46.48	68.20	-21.72	peak	P
4 *	13737.399	83.50	-32.98	50.52	68.20	-17.68	peak	P

U-NII-2C			Worst mode: 802.11a(HT20)			Test channel: CH _M			
Polarization:					Horizontal				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1	3352.213	71.75	-31.18	40.57	68.20	-27.63	peak	P	
2	6884.849	76.56	-32.90	43.66	68.20	-24.54	peak	P	
3	8650.893	78.36	-34.31	44.05	68.20	-24.15	peak	P	
4 *	14366.840	84.62	-32.81	51.81	68.20	-16.39	peak	P	

Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3490.642	72.03	-31.29	40.74	68.20	-27.46	peak	P
2	7221.150	77.08	-33.27	43.81	68.20	-24.39	peak	P
3	9753.371	78.47	-33.52	44.95	68.20	-23.25	peak	P
4 *	14325.374	85.20	-32.76	52.44	68.20	-15.76	peak	P

U-NII-2C		Worst mode: 802.11a(HT20)				Test channel: CH _H			
Polarization:					Horizontal				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1	3490.642	72.03	-31.29	40.74	68.20	-27.46	peak	P	
2	7221.150	77.08	-33.27	43.81	68.20	-24.39	peak	P	
3	9753.371	78.47	-33.52	44.95	68.20	-23.25	peak	P	
4 *	14325.374	85.20	-32.76	52.44	68.20	-15.76	peak	P	

Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2536.283	68.78	-31.36	37.42	68.20	-30.78	peak	P
2	3328.077	71.94	-31.16	40.78	68.20	-27.42	peak	P
3	7639.839	78.16	-33.64	44.52	68.20	-23.68	peak	P
4 *	11888.879	81.44	-34.22	47.22	68.20	-20.98	peak	P

U-NII-3		Worst mode: 802.11a(HT20)				Test channel: CH _L			
Polarization:					Horizontal				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1	2734.229	70.87	-31.17	39.70	68.20	-28.50	peak	P	
2	4329.355	73.03	-31.67	41.36	68.20	-26.84	peak	P	
3	7400.758	76.34	-33.32	43.02	68.20	-25.18	peak	P	
4 *	13059.822	81.72	-33.86	47.86	68.20	-20.34	peak	P	

Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2315.563	69.52	-31.47	38.05	68.20	-30.15	peak	P
2	6924.763	76.06	-33.01	43.05	68.20	-25.15	peak	P
3	11600.350	82.06	-34.54	47.52	68.20	-20.68	peak	P
4 *	14408.425	83.66	-32.88	50.78	68.20	-17.42	peak	P

U-NII-3			Worst mode: 802.11a(HT20)				Test channel: CH _M		
Polarization:					Horizontal				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1	2432.183	68.82	-31.43	37.39	68.20	-30.81	peak	P	
2	3629.540	71.51	-31.38	40.13	68.20	-28.07	peak	P	
3	9245.538	79.78	-33.32	46.46	68.20	-21.74	peak	P	
4 *	13877.076	82.17	-32.62	49.55	68.20	-18.65	peak	P	

Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2514.386	69.42	-31.39	38.03	68.20	-30.17	peak	P
2	3845.537	72.34	-31.51	40.83	68.20	-27.37	peak	P
3	9809.916	79.10	-33.67	45.43	68.20	-22.77	peak	P
4 *	13737.399	83.50	-32.98	50.52	68.20	-17.68	peak	P

U-NII-3		Worst mode: 802.11a(HT20)				Test channel: CH _H			
Polarization:						Horizontal			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1	1980.943	67.99	-30.11	37.88	68.20	-30.32	peak	P	
2	3299.344	71.37	-31.14	40.23	68.20	-27.97	peak	P	
3	7573.879	78.44	-33.50	44.94	68.20	-23.26	peak	P	
4 *	13658.216	82.66	-33.19	49.47	68.20	-18.73	peak	P	

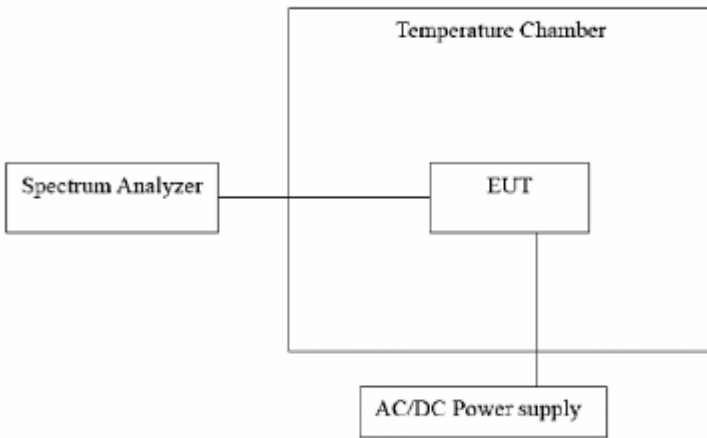
Polarization:					Vertical			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2086.733	68.50	-30.50	38.00	68.20	-30.20	peak	P
2	3342.537	71.45	-31.17	40.28	68.20	-27.92	peak	P
3	7443.664	76.11	-33.33	42.78	68.20	-25.42	peak	P
4 *	11076.096	81.37	-34.69	46.68	68.20	-21.52	peak	P

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

5.9. Frequency Stability Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Method:	ANSI C63.10: 2013
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	 <pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] subgraph TC [Temperature Chamber] EUT end EUT --- P[AC/DC Power supply] </pre>
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	Pre-scan was performed at all models(11a,11n,11ac), the worst case (11ac) was found and test data was shown in this report.

Test plots as follows:

Ant1							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	3.15	5179.980	5150 to 5250	Pass
				3.7	5179.980	5150 to 5250	Pass
				4.26	5179.980	5150 to 5250	Pass
			-30	3.7	5180.000	5150 to 5250	Pass
			-20	3.7	5179.960	5150 to 5250	Pass
			-10	3.7	5179.980	5150 to 5250	Pass
			0	3.7	5180.000	5150 to 5250	Pass
			10	3.7	5180.040	5150 to 5250	Pass
			30	3.7	5179.980	5150 to 5250	Pass
			40	3.7	5179.980	5150 to 5250	Pass
			50	3.7	5179.960	5150 to 5250	Pass
		5200	20	3.15	5200.020	5150 to 5250	Pass
				3.7	5200.020	5150 to 5250	Pass
				4.26	5199.960	5150 to 5250	Pass
			-30	3.7	5200.020	5150 to 5250	Pass
			-20	3.7	5200.000	5150 to 5250	Pass
			-10	3.7	5200.020	5150 to 5250	Pass
			0	3.7	5200.000	5150 to 5250	Pass
			10	3.7	5200.000	5150 to 5250	Pass
			30	3.7	5200.000	5150 to 5250	Pass
			40	3.7	5200.020	5150 to 5250	Pass
			50	3.7	5200.020	5150 to	Pass

						5250	
				3.15	5240.000	5150 to 5250	Pass
			20	3.7	5240.020	5150 to 5250	Pass
				4.26	5240.000	5150 to 5250	Pass
			-30	3.7	5239.940	5150 to 5250	Pass
			-20	3.7	5240.000	5150 to 5250	Pass
		5240	-10	3.7	5240.040	5150 to 5250	Pass
			0	3.7	5239.980	5150 to 5250	Pass
			10	3.7	5240.000	5150 to 5250	Pass
			30	3.7	5240.000	5150 to 5250	Pass
			40	3.7	5239.960	5150 to 5250	Pass
			50	3.7	5240.000	5150 to 5250	Pass
				3.15	5259.980	5250 to 5350	Pass
			20	3.7	5259.980	5250 to 5350	Pass
				4.26	5260.020	5250 to 5350	Pass
			-30	3.7	5259.960	5250 to 5350	Pass
			-20	3.7	5260.020	5250 to 5350	Pass
		5260	-10	3.7	5260.040	5250 to 5350	Pass
			0	3.7	5259.960	5250 to 5350	Pass
			10	3.7	5259.980	5250 to 5350	Pass
			30	3.7	5260.020	5250 to 5350	Pass
			40	3.7	5259.980	5250 to 5350	Pass
			50	3.7	5260.020	5250 to 5350	Pass
				3.15	5300.040	5250 to 5350	Pass
		5300	20	3.7	5300.020	5250 to 5350	Pass

				4.26	5300.040	5250 to 5350	Pass
			-30	3.7	5300.060	5250 to 5350	Pass
			-20	3.7	5300.000	5250 to 5350	Pass
			-10	3.7	5300.060	5250 to 5350	Pass
			0	3.7	5300.020	5250 to 5350	Pass
			10	3.7	5300.020	5250 to 5350	Pass
			30	3.7	5299.980	5250 to 5350	Pass
			40	3.7	5300.040	5250 to 5350	Pass
			50	3.7	5300.000	5250 to 5350	Pass
		5320	20	3.15	5319.980	5250 to 5350	Pass
				3.7	5320.020	5250 to 5350	Pass
				4.26	5320.000	5250 to 5350	Pass
			-30	3.7	5319.960	5250 to 5350	Pass
			-20	3.7	5320.000	5250 to 5350	Pass
			-10	3.7	5319.980	5250 to 5350	Pass
			0	3.7	5320.060	5250 to 5350	Pass
			10	3.7	5320.000	5250 to 5350	Pass
			30	3.7	5320.000	5250 to 5350	Pass
			40	3.7	5320.000	5250 to 5350	Pass
			50	3.7	5320.000	5250 to 5350	Pass
		5500	20	3.15	5500.000	5470 to 5725	Pass
				3.7	5500.000	5470 to 5725	Pass
				4.26	5499.980	5470 to 5725	Pass
			-30	3.7	5499.980	5470 to 5725	Pass
			-20	3.7	5500.000	5470 to	Pass

						5725	
			-10	3.7	5499.980	5470 to 5725	Pass
			0	3.7	5499.960	5470 to 5725	Pass
			10	3.7	5499.960	5470 to 5725	Pass
			30	3.7	5499.960	5470 to 5725	Pass
			40	3.7	5499.980	5470 to 5725	Pass
			50	3.7	5499.980	5470 to 5725	Pass
		5580	20	3.15	5579.980	5470 to 5725	Pass
				3.7	5579.980	5470 to 5725	Pass
				4.26	5580.000	5470 to 5725	Pass
			-30	3.7	5579.980	5470 to 5725	Pass
			-20	3.7	5579.980	5470 to 5725	Pass
			-10	3.7	5580.020	5470 to 5725	Pass
			0	3.7	5580.020	5470 to 5725	Pass
			10	3.7	5579.980	5470 to 5725	Pass
			30	3.7	5580.020	5470 to 5725	Pass
			40	3.7	5580.020	5470 to 5725	Pass
			50	3.7	5580.040	5470 to 5725	Pass
		5700	20	3.15	5699.980	5470 to 5725	Pass
				3.7	5699.960	5470 to 5725	Pass
				4.26	5699.980	5470 to 5725	Pass
			-30	3.7	5699.980	5470 to 5725	Pass
			-20	3.7	5699.980	5470 to 5725	Pass
			-10	3.7	5700.020	5470 to 5725	Pass
			0	3.7	5699.960	5470 to 5725	Pass

			10	3.7	5699.980	5470 to 5725	Pass
			30	3.7	5699.940	5470 to 5725	Pass
			40	3.7	5700.000	5470 to 5725	Pass
			50	3.7	5699.980	5470 to 5725	Pass
		5745	20	3.15	5744.960	5725 to 5850	Pass
				3.7	5744.920	5725 to 5850	Pass
				4.26	5744.980	5725 to 5850	Pass
			-30	3.7	5745.040	5725 to 5850	Pass
			-20	3.7	5745.000	5725 to 5850	Pass
			-10	3.7	5745.020	5725 to 5850	Pass
			0	3.7	5745.000	5725 to 5850	Pass
			10	3.7	5745.000	5725 to 5850	Pass
			30	3.7	5745.020	5725 to 5850	Pass
			40	3.7	5744.980	5725 to 5850	Pass
			50	3.7	5744.960	5725 to 5850	Pass
		5785	20	3.15	5784.980	5725 to 5850	Pass
				3.7	5784.960	5725 to 5850	Pass
				4.26	5785.000	5725 to 5850	Pass
			-30	3.7	5785.000	5725 to 5850	Pass
			-20	3.7	5784.960	5725 to 5850	Pass
			-10	3.7	5784.980	5725 to 5850	Pass
			0	3.7	5784.980	5725 to 5850	Pass
			10	3.7	5784.960	5725 to 5850	Pass
			30	3.7	5784.980	5725 to 5850	Pass
			40	3.7	5784.980	5725 to	Pass

802.11n (HT20)	SISO	5825				5850	
			50	3.7	5784.980	5725 to 5850	Pass
			20	3.15	5825.020	5725 to 5850	Pass
				3.7	5824.960	5725 to 5850	Pass
				4.26	5825.000	5725 to 5850	Pass
			-30	3.7	5825.000	5725 to 5850	Pass
			-20	3.7	5825.020	5725 to 5850	Pass
			-10	3.7	5825.000	5725 to 5850	Pass
			0	3.7	5825.000	5725 to 5850	Pass
			10	3.7	5824.980	5725 to 5850	Pass
			30	3.7	5824.920	5725 to 5850	Pass
			40	3.7	5824.960	5725 to 5850	Pass
			50	3.7	5824.940	5725 to 5850	Pass
	SISO	5180	20	3.15	5180.000	5150 to 5250	Pass
				3.7	5179.980	5150 to 5250	Pass
				4.26	5179.940	5150 to 5250	Pass
			-30	3.7	5179.940	5150 to 5250	Pass
			-20	3.7	5179.980	5150 to 5250	Pass
			-10	3.7	5179.960	5150 to 5250	Pass
			0	3.7	5180.000	5150 to 5250	Pass
			10	3.7	5180.000	5150 to 5250	Pass
			30	3.7	5180.020	5150 to 5250	Pass
			40	3.7	5179.960	5150 to 5250	Pass
			50	3.7	5180.000	5150 to 5250	Pass
		5200	20	3.15	5200.000	5150 to 5250	Pass

				3.7	5200.040	5150 to 5250	Pass
				4.26	5200.040	5150 to 5250	Pass
			-30	3.7	5199.960	5150 to 5250	Pass
			-20	3.7	5200.020	5150 to 5250	Pass
			-10	3.7	5199.960	5150 to 5250	Pass
			0	3.7	5199.980	5150 to 5250	Pass
			10	3.7	5199.960	5150 to 5250	Pass
			30	3.7	5199.960	5150 to 5250	Pass
			40	3.7	5200.020	5150 to 5250	Pass
			50	3.7	5199.980	5150 to 5250	Pass
		5240	20	3.15	5239.960	5150 to 5250	Pass
				3.7	5239.940	5150 to 5250	Pass
				4.26	5239.940	5150 to 5250	Pass
			-30	3.7	5239.960	5150 to 5250	Pass
			-20	3.7	5239.980	5150 to 5250	Pass
			-10	3.7	5240.000	5150 to 5250	Pass
			0	3.7	5239.980	5150 to 5250	Pass
			10	3.7	5239.980	5150 to 5250	Pass
			30	3.7	5239.940	5150 to 5250	Pass
			40	3.7	5239.980	5150 to 5250	Pass
		5260	20	3.15	5260.040	5250 to 5350	Pass
				3.7	5259.980	5250 to 5350	Pass
				4.26	5260.000	5250 to 5350	Pass
			-30	3.7	5260.000	5250 to	Pass

						5350	
			-20	3.7	5260.020	5250 to 5350	Pass
			-10	3.7	5259.960	5250 to 5350	Pass
			0	3.7	5259.980	5250 to 5350	Pass
			10	3.7	5259.960	5250 to 5350	Pass
			30	3.7	5260.000	5250 to 5350	Pass
			40	3.7	5259.960	5250 to 5350	Pass
			50	3.7	5260.000	5250 to 5350	Pass
		5300	20	3.15	5300.000	5250 to 5350	Pass
				3.7	5300.000	5250 to 5350	Pass
				4.26	5300.000	5250 to 5350	Pass
			-30	3.7	5299.980	5250 to 5350	Pass
			-20	3.7	5300.020	5250 to 5350	Pass
			-10	3.7	5299.980	5250 to 5350	Pass
			0	3.7	5299.980	5250 to 5350	Pass
			10	3.7	5299.980	5250 to 5350	Pass
			30	3.7	5299.960	5250 to 5350	Pass
			40	3.7	5299.980	5250 to 5350	Pass
			50	3.7	5299.960	5250 to 5350	Pass
		5320	20	3.15	5320.020	5250 to 5350	Pass
				3.7	5320.000	5250 to 5350	Pass
				4.26	5320.000	5250 to 5350	Pass
			-30	3.7	5320.020	5250 to 5350	Pass
			-20	3.7	5320.000	5250 to 5350	Pass
			-10	3.7	5319.980	5250 to 5350	Pass

			0	3.7	5319.940	5250 to 5350	Pass
			10	3.7	5319.980	5250 to 5350	Pass
			30	3.7	5319.980	5250 to 5350	Pass
			40	3.7	5319.980	5250 to 5350	Pass
			50	3.7	5320.020	5250 to 5350	Pass
		5500	20	3.15	5500.000	5470 to 5725	Pass
				3.7	5499.940	5470 to 5725	Pass
				4.26	5500.020	5470 to 5725	Pass
			-30	3.7	5499.960	5470 to 5725	Pass
			-20	3.7	5499.900	5470 to 5725	Pass
			-10	3.7	5500.020	5470 to 5725	Pass
			0	3.7	5500.020	5470 to 5725	Pass
			10	3.7	5499.920	5470 to 5725	Pass
			30	3.7	5499.920	5470 to 5725	Pass
			40	3.7	5500.000	5470 to 5725	Pass
			50	3.7	5500.000	5470 to 5725	Pass
		5580	20	3.15	5580.020	5470 to 5725	Pass
				3.7	5580.000	5470 to 5725	Pass
				4.26	5579.980	5470 to 5725	Pass
			-30	3.7	5580.000	5470 to 5725	Pass
			-20	3.7	5580.000	5470 to 5725	Pass
			-10	3.7	5579.980	5470 to 5725	Pass
			0	3.7	5579.980	5470 to 5725	Pass
			10	3.7	5580.000	5470 to 5725	Pass
			30	3.7	5580.060	5470 to	Pass

						5725	
			40	3.7	5579.980	5470 to 5725	Pass
			50	3.7	5580.020	5470 to 5725	Pass
		5700	20	3.15	5699.960	5470 to 5725	Pass
				3.7	5699.940	5470 to 5725	Pass
				4.26	5699.980	5470 to 5725	Pass
			-30	3.7	5699.960	5470 to 5725	Pass
			-20	3.7	5700.000	5470 to 5725	Pass
			-10	3.7	5699.940	5470 to 5725	Pass
			0	3.7	5699.940	5470 to 5725	Pass
			10	3.7	5699.940	5470 to 5725	Pass
			30	3.7	5699.980	5470 to 5725	Pass
			40	3.7	5699.980	5470 to 5725	Pass
			50	3.7	5699.960	5470 to 5725	Pass
		5745	20	3.15	5745.000	5725 to 5850	Pass
				3.7	5744.960	5725 to 5850	Pass
				4.26	5744.960	5725 to 5850	Pass
			-30	3.7	5745.000	5725 to 5850	Pass
			-20	3.7	5744.980	5725 to 5850	Pass
			-10	3.7	5744.940	5725 to 5850	Pass
			0	3.7	5745.000	5725 to 5850	Pass
			10	3.7	5744.960	5725 to 5850	Pass
			30	3.7	5744.980	5725 to 5850	Pass
			40	3.7	5744.980	5725 to 5850	Pass
			50	3.7	5744.980	5725 to 5850	Pass

		5785	20	3.15	5784.960	5725 to 5850	Pass
				3.7	5784.920	5725 to 5850	Pass
				4.26	5784.920	5725 to 5850	Pass
			-30	3.7	5784.980	5725 to 5850	Pass
			-20	3.7	5784.940	5725 to 5850	Pass
			-10	3.7	5784.980	5725 to 5850	Pass
			0	3.7	5784.960	5725 to 5850	Pass
			10	3.7	5784.920	5725 to 5850	Pass
			30	3.7	5784.940	5725 to 5850	Pass
			40	3.7	5784.940	5725 to 5850	Pass
			50	3.7	5784.940	5725 to 5850	Pass
		5825	20	3.15	5824.940	5725 to 5850	Pass
				3.7	5824.960	5725 to 5850	Pass
				4.26	5824.980	5725 to 5850	Pass
			-30	3.7	5824.960	5725 to 5850	Pass
			-20	3.7	5825.040	5725 to 5850	Pass
			-10	3.7	5824.980	5725 to 5850	Pass
			0	3.7	5825.000	5725 to 5850	Pass
			10	3.7	5825.020	5725 to 5850	Pass
			30	3.7	5824.960	5725 to 5850	Pass
			40	3.7	5824.980	5725 to 5850	Pass
			50	3.7	5825.000	5725 to 5850	Pass
802.11n (HT40)	SISO	5190	20	3.15	5190.000	5150 to 5250	Pass
				3.7	5190.000	5150 to 5250	Pass
				4.26	5190.000	5150 to	Pass

						5250	
			-30	3.7	5190.000	5150 to 5250	Pass
			-20	3.7	5190.040	5150 to 5250	Pass
			-10	3.7	5190.000	5150 to 5250	Pass
			0	3.7	5190.040	5150 to 5250	Pass
			10	3.7	5189.960	5150 to 5250	Pass
			30	3.7	5190.000	5150 to 5250	Pass
			40	3.7	5190.000	5150 to 5250	Pass
			50	3.7	5189.960	5150 to 5250	Pass
		5230	20	3.15	5230.000	5150 to 5250	Pass
				3.7	5230.040	5150 to 5250	Pass
				4.26	5230.000	5150 to 5250	Pass
			-30	3.7	5230.040	5150 to 5250	Pass
			-20	3.7	5230.000	5150 to 5250	Pass
			-10	3.7	5229.960	5150 to 5250	Pass
			0	3.7	5230.000	5150 to 5250	Pass
			10	3.7	5230.040	5150 to 5250	Pass
			30	3.7	5230.000	5150 to 5250	Pass
			40	3.7	5229.960	5150 to 5250	Pass
			50	3.7	5230.000	5150 to 5250	Pass
		5270	20	3.15	5270.040	5250 to 5350	Pass
				3.7	5270.000	5250 to 5350	Pass
				4.26	5270.040	5250 to 5350	Pass
			-30	3.7	5270.040	5250 to 5350	Pass
			-20	3.7	5270.080	5250 to 5350	Pass

			-10	3.7	5270.000	5250 to 5350	Pass
			0	3.7	5270.040	5250 to 5350	Pass
			10	3.7	5270.000	5250 to 5350	Pass
			30	3.7	5270.000	5250 to 5350	Pass
			40	3.7	5270.000	5250 to 5350	Pass
			50	3.7	5270.040	5250 to 5350	Pass
		5310	20	3.15	5310.000	5250 to 5350	Pass
				3.7	5309.960	5250 to 5350	Pass
				4.26	5310.080	5250 to 5350	Pass
			-30	3.7	5310.040	5250 to 5350	Pass
			-20	3.7	5310.000	5250 to 5350	Pass
			-10	3.7	5310.040	5250 to 5350	Pass
			0	3.7	5310.000	5250 to 5350	Pass
			10	3.7	5310.040	5250 to 5350	Pass
			30	3.7	5310.040	5250 to 5350	Pass
			40	3.7	5310.000	5250 to 5350	Pass
			50	3.7	5309.960	5250 to 5350	Pass
		5510	20	3.15	5509.960	5470 to 5725	Pass
				3.7	5509.960	5470 to 5725	Pass
				4.26	5510.000	5470 to 5725	Pass
			-30	3.7	5510.000	5470 to 5725	Pass
			-20	3.7	5510.000	5470 to 5725	Pass
			-10	3.7	5510.000	5470 to 5725	Pass
			0	3.7	5510.000	5470 to 5725	Pass
			10	3.7	5509.960	5470 to	Pass

						5725	
			30	3.7	5509.960	5470 to 5725	Pass
			40	3.7	5510.000	5470 to 5725	Pass
			50	3.7	5510.000	5470 to 5725	Pass
		5550	20	3.15	5550.000	5470 to 5725	Pass
				3.7	5550.000	5470 to 5725	Pass
				4.26	5550.040	5470 to 5725	Pass
			-30	3.7	5550.040	5470 to 5725	Pass
			-20	3.7	5550.040	5470 to 5725	Pass
			-10	3.7	5550.000	5470 to 5725	Pass
			0	3.7	5549.960	5470 to 5725	Pass
			10	3.7	5550.040	5470 to 5725	Pass
			30	3.7	5550.000	5470 to 5725	Pass
			40	3.7	5550.000	5470 to 5725	Pass
			50	3.7	5549.960	5470 to 5725	Pass
		5670	20	3.15	5670.000	5470 to 5725	Pass
				3.7	5670.000	5470 to 5725	Pass
				4.26	5670.000	5470 to 5725	Pass
			-30	3.7	5669.960	5470 to 5725	Pass
			-20	3.7	5670.000	5470 to 5725	Pass
			-10	3.7	5670.000	5470 to 5725	Pass
			0	3.7	5670.000	5470 to 5725	Pass
			10	3.7	5670.040	5470 to 5725	Pass
			30	3.7	5670.000	5470 to 5725	Pass
			40	3.7	5670.040	5470 to 5725	Pass

			50	3.7	5670.040	5470 to 5725	Pass
			20	3.15	5755.000	5725 to 5850	Pass
				3.7	5754.960	5725 to 5850	Pass
				4.26	5755.000	5725 to 5850	Pass
			-30	3.7	5755.000	5725 to 5850	Pass
			-20	3.7	5754.920	5725 to 5850	Pass
			-10	3.7	5754.960	5725 to 5850	Pass
			0	3.7	5754.960	5725 to 5850	Pass
			10	3.7	5755.000	5725 to 5850	Pass
			30	3.7	5754.960	5725 to 5850	Pass
			40	3.7	5755.000	5725 to 5850	Pass
			50	3.7	5754.960	5725 to 5850	Pass
		5795	20	3.15	5794.960	5725 to 5850	Pass
				3.7	5795.000	5725 to 5850	Pass
				4.26	5794.920	5725 to 5850	Pass
			-30	3.7	5794.960	5725 to 5850	Pass
			-20	3.7	5794.960	5725 to 5850	Pass
			-10	3.7	5794.960	5725 to 5850	Pass
			0	3.7	5794.960	5725 to 5850	Pass
			10	3.7	5794.960	5725 to 5850	Pass
			30	3.7	5795.000	5725 to 5850	Pass
			40	3.7	5794.960	5725 to 5850	Pass
			50	3.7	5794.960	5725 to 5850	Pass
802.11ac (VHT20)	SISO	5180	20	3.15	5179.960	5150 to 5250	Pass
				3.7	5179.940	5150 to	Pass

						5250	
				4.26	5179.940	5150 to 5250	Pass
			-30	3.7	5180.000	5150 to 5250	Pass
			-20	3.7	5180.000	5150 to 5250	Pass
			-10	3.7	5180.000	5150 to 5250	Pass
			0	3.7	5180.000	5150 to 5250	Pass
			10	3.7	5179.960	5150 to 5250	Pass
			30	3.7	5179.940	5150 to 5250	Pass
			40	3.7	5179.940	5150 to 5250	Pass
			50	3.7	5179.980	5150 to 5250	Pass
5200		20		3.15	5200.000	5150 to 5250	Pass
				3.7	5200.020	5150 to 5250	Pass
				4.26	5200.000	5150 to 5250	Pass
		-30		3.7	5200.020	5150 to 5250	Pass
				3.7	5199.980	5150 to 5250	Pass
				3.7	5200.040	5150 to 5250	Pass
		0		3.7	5199.960	5150 to 5250	Pass
				3.7	5199.980	5150 to 5250	Pass
				3.7	5200.040	5150 to 5250	Pass
		40		3.7	5200.000	5150 to 5250	Pass
				3.7	5200.000	5150 to 5250	Pass
				3.7	5200.000	5150 to 5250	Pass
5240		20		3.15	5240.000	5150 to 5250	Pass
				3.7	5239.980	5150 to 5250	Pass
				4.26	5239.960	5150 to 5250	Pass
		-30		3.7	5240.000	5150 to 5250	Pass

			-20	3.7	5239.980	5150 to 5250	Pass
			-10	3.7	5240.000	5150 to 5250	Pass
			0	3.7	5240.020	5150 to 5250	Pass
			10	3.7	5239.960	5150 to 5250	Pass
			30	3.7	5239.980	5150 to 5250	Pass
			40	3.7	5239.960	5150 to 5250	Pass
			50	3.7	5239.960	5150 to 5250	Pass
		5260	20	3.15	5260.020	5250 to 5350	Pass
				3.7	5259.980	5250 to 5350	Pass
				4.26	5260.000	5250 to 5350	Pass
			-30	3.7	5259.980	5250 to 5350	Pass
			-20	3.7	5260.000	5250 to 5350	Pass
			-10	3.7	5259.940	5250 to 5350	Pass
			0	3.7	5260.040	5250 to 5350	Pass
			10	3.7	5259.960	5250 to 5350	Pass
			30	3.7	5259.960	5250 to 5350	Pass
			40	3.7	5259.980	5250 to 5350	Pass
			50	3.7	5259.980	5250 to 5350	Pass
		5300	20	3.15	5300.020	5250 to 5350	Pass
				3.7	5299.960	5250 to 5350	Pass
				4.26	5300.020	5250 to 5350	Pass
			-30	3.7	5300.000	5250 to 5350	Pass
			-20	3.7	5300.000	5250 to 5350	Pass
			-10	3.7	5300.000	5250 to 5350	Pass
			0	3.7	5300.000	5250 to	Pass

						5350	
			10	3.7	5300.020	5250 to 5350	Pass
			30	3.7	5300.020	5250 to 5350	Pass
			40	3.7	5300.020	5250 to 5350	Pass
			50	3.7	5300.020	5250 to 5350	Pass
		5320	20	3.15	5320.000	5250 to 5350	Pass
				3.7	5320.040	5250 to 5350	Pass
				4.26	5320.000	5250 to 5350	Pass
			-30	3.7	5319.940	5250 to 5350	Pass
			-20	3.7	5320.020	5250 to 5350	Pass
			-10	3.7	5319.960	5250 to 5350	Pass
			0	3.7	5319.980	5250 to 5350	Pass
			10	3.7	5320.000	5250 to 5350	Pass
			30	3.7	5320.000	5250 to 5350	Pass
			40	3.7	5320.000	5250 to 5350	Pass
			50	3.7	5320.000	5250 to 5350	Pass
		5500	20	3.15	5499.960	5470 to 5725	Pass
				3.7	5499.960	5470 to 5725	Pass
				4.26	5499.940	5470 to 5725	Pass
			-30	3.7	5499.940	5470 to 5725	Pass
			-20	3.7	5499.960	5470 to 5725	Pass
			-10	3.7	5499.960	5470 to 5725	Pass
			0	3.7	5499.980	5470 to 5725	Pass
			10	3.7	5499.980	5470 to 5725	Pass
			30	3.7	5500.000	5470 to 5725	Pass

			40	3.7	5500.000	5470 to 5725	Pass
			50	3.7	5499.960	5470 to 5725	Pass
	5580	20		3.15	5580.000	5470 to 5725	Pass
				3.7	5580.020	5470 to 5725	Pass
				4.26	5579.960	5470 to 5725	Pass
		-30		3.7	5580.040	5470 to 5725	Pass
				3.7	5580.060	5470 to 5725	Pass
				3.7	5580.000	5470 to 5725	Pass
		0		3.7	5579.960	5470 to 5725	Pass
				3.7	5580.020	5470 to 5725	Pass
				3.7	5580.040	5470 to 5725	Pass
		40		3.7	5579.960	5470 to 5725	Pass
				3.7	5580.000	5470 to 5725	Pass
				3.7	5580.000	5470 to 5725	Pass
	5700	20		3.15	5699.940	5470 to 5725	Pass
				3.7	5699.980	5470 to 5725	Pass
				4.26	5699.960	5470 to 5725	Pass
		-30		3.7	5699.980	5470 to 5725	Pass
				3.7	5699.960	5470 to 5725	Pass
				3.7	5699.920	5470 to 5725	Pass
		0		3.7	5699.940	5470 to 5725	Pass
				3.7	5699.980	5470 to 5725	Pass
				3.7	5699.980	5470 to 5725	Pass
		40		3.7	5699.980	5470 to 5725	Pass
				3.7	5699.980	5470 to 5725	Pass
				3.7	5699.940	5470 to 5725	Pass
	5745	20		3.15	5744.980	5725 to	Pass

					5850	
				3.7	5744.980	5725 to 5850 Pass
				4.26	5744.980	5725 to 5850 Pass
			-30	3.7	5744.940	5725 to 5850 Pass
			-20	3.7	5745.000	5725 to 5850 Pass
			-10	3.7	5744.960	5725 to 5850 Pass
			0	3.7	5744.980	5725 to 5850 Pass
			10	3.7	5744.940	5725 to 5850 Pass
			30	3.7	5745.000	5725 to 5850 Pass
			40	3.7	5744.980	5725 to 5850 Pass
			50	3.7	5744.980	5725 to 5850 Pass
		5785	20	3.15	5784.940	5725 to 5850 Pass
				3.7	5784.880	5725 to 5850 Pass
				4.26	5784.960	5725 to 5850 Pass
			-30	3.7	5784.980	5725 to 5850 Pass
			-20	3.7	5784.900	5725 to 5850 Pass
			-10	3.7	5784.920	5725 to 5850 Pass
			0	3.7	5784.960	5725 to 5850 Pass
			10	3.7	5784.960	5725 to 5850 Pass
			30	3.7	5785.000	5725 to 5850 Pass
			40	3.7	5784.940	5725 to 5850 Pass
			50	3.7	5784.960	5725 to 5850 Pass
		5825	20	3.15	5825.000	5725 to 5850 Pass
				3.7	5824.960	5725 to 5850 Pass
				4.26	5824.960	5725 to 5850 Pass

802.11ac (VHT40)	SISO		-30	3.7	5825.000	5725 to 5850	Pass
			-20	3.7	5825.020	5725 to 5850	Pass
			-10	3.7	5824.980	5725 to 5850	Pass
			0	3.7	5825.000	5725 to 5850	Pass
			10	3.7	5825.000	5725 to 5850	Pass
			30	3.7	5825.020	5725 to 5850	Pass
			40	3.7	5824.980	5725 to 5850	Pass
			50	3.7	5824.980	5725 to 5850	Pass
	SISO	5190	20	3.15	5190.000	5150 to 5250	Pass
				3.7	5190.040	5150 to 5250	Pass
				4.26	5190.000	5150 to 5250	Pass
			-30	3.7	5190.000	5150 to 5250	Pass
			-20	3.7	5189.960	5150 to 5250	Pass
			-10	3.7	5190.000	5150 to 5250	Pass
			0	3.7	5189.960	5150 to 5250	Pass
			10	3.7	5190.000	5150 to 5250	Pass
			30	3.7	5190.000	5150 to 5250	Pass
			40	3.7	5190.000	5150 to 5250	Pass
			50	3.7	5189.960	5150 to 5250	Pass
		5230	20	3.15	5230.000	5150 to 5250	Pass
				3.7	5230.040	5150 to 5250	Pass
				4.26	5229.960	5150 to 5250	Pass
			-30	3.7	5230.000	5150 to 5250	Pass
			-20	3.7	5230.000	5150 to 5250	Pass
			-10	3.7	5230.000	5150 to	Pass

						5250	
			0	3.7	5230.000	5150 to 5250	Pass
			10	3.7	5230.000	5150 to 5250	Pass
			30	3.7	5229.960	5150 to 5250	Pass
			40	3.7	5229.960	5150 to 5250	Pass
			50	3.7	5230.040	5150 to 5250	Pass
		5270	20	3.15	5270.000	5250 to 5350	Pass
				3.7	5270.000	5250 to 5350	Pass
				4.26	5270.000	5250 to 5350	Pass
			-30	3.7	5270.000	5250 to 5350	Pass
			-20	3.7	5270.000	5250 to 5350	Pass
			-10	3.7	5270.000	5250 to 5350	Pass
			0	3.7	5270.000	5250 to 5350	Pass
			10	3.7	5270.000	5250 to 5350	Pass
			30	3.7	5269.960	5250 to 5350	Pass
			40	3.7	5270.000	5250 to 5350	Pass
			50	3.7	5270.000	5250 to 5350	Pass
		5310	20	3.15	5309.960	5250 to 5350	Pass
				3.7	5310.040	5250 to 5350	Pass
				4.26	5310.040	5250 to 5350	Pass
			-30	3.7	5310.000	5250 to 5350	Pass
			-20	3.7	5310.000	5250 to 5350	Pass
			-10	3.7	5310.040	5250 to 5350	Pass
			0	3.7	5310.000	5250 to 5350	Pass
			10	3.7	5310.040	5250 to 5350	Pass

			30	3.7	5310.000	5250 to 5350	Pass
			40	3.7	5310.040	5250 to 5350	Pass
			50	3.7	5310.000	5250 to 5350	Pass
		5510	20	3.15	5509.960	5470 to 5725	Pass
				3.7	5510.000	5470 to 5725	Pass
				4.26	5509.960	5470 to 5725	Pass
			-30	3.7	5510.040	5470 to 5725	Pass
			-20	3.7	5509.960	5470 to 5725	Pass
			-10	3.7	5509.960	5470 to 5725	Pass
			0	3.7	5510.000	5470 to 5725	Pass
			10	3.7	5509.880	5470 to 5725	Pass
			30	3.7	5510.000	5470 to 5725	Pass
			40	3.7	5509.960	5470 to 5725	Pass
			50	3.7	5510.000	5470 to 5725	Pass
		5550	20	3.15	5549.960	5470 to 5725	Pass
				3.7	5550.040	5470 to 5725	Pass
				4.26	5550.000	5470 to 5725	Pass
			-30	3.7	5549.960	5470 to 5725	Pass
			-20	3.7	5550.000	5470 to 5725	Pass
			-10	3.7	5550.000	5470 to 5725	Pass
			0	3.7	5550.040	5470 to 5725	Pass
			10	3.7	5550.040	5470 to 5725	Pass
			30	3.7	5549.960	5470 to 5725	Pass
			40	3.7	5550.000	5470 to 5725	Pass
			50	3.7	5550.040	5470 to	Pass

						5725	
				3.15	5670.000	5470 to 5725	Pass
			20	3.7	5670.000	5470 to 5725	Pass
				4.26	5670.000	5470 to 5725	Pass
			-30	3.7	5670.000	5470 to 5725	Pass
			-20	3.7	5669.960	5470 to 5725	Pass
		5670	-10	3.7	5670.040	5470 to 5725	Pass
			0	3.7	5670.000	5470 to 5725	Pass
			10	3.7	5670.000	5470 to 5725	Pass
			30	3.7	5670.000	5470 to 5725	Pass
			40	3.7	5670.000	5470 to 5725	Pass
			50	3.7	5670.000	5470 to 5725	Pass
				3.15	5754.960	5725 to 5850	Pass
			20	3.7	5755.040	5725 to 5850	Pass
				4.26	5755.000	5725 to 5850	Pass
			-30	3.7	5755.000	5725 to 5850	Pass
			-20	3.7	5755.000	5725 to 5850	Pass
		5755	-10	3.7	5754.960	5725 to 5850	Pass
			0	3.7	5754.960	5725 to 5850	Pass
			10	3.7	5754.960	5725 to 5850	Pass
			30	3.7	5754.960	5725 to 5850	Pass
			40	3.7	5754.960	5725 to 5850	Pass
			50	3.7	5755.000	5725 to 5850	Pass
				3.15	5794.960	5725 to 5850	Pass
		5795	20	3.7	5794.960	5725 to 5850	Pass

802.11ac (VHT80)	SISO			4.26	5794.960	5725 to 5850	Pass
			-30	3.7	5794.960	5725 to 5850	Pass
			-20	3.7	5795.000	5725 to 5850	Pass
			-10	3.7	5795.000	5725 to 5850	Pass
			0	3.7	5794.960	5725 to 5850	Pass
			10	3.7	5794.960	5725 to 5850	Pass
			30	3.7	5795.000	5725 to 5850	Pass
			40	3.7	5794.960	5725 to 5850	Pass
			50	3.7	5794.960	5725 to 5850	Pass
	SISO	5210	20	3.15	5209.925	5150 to 5250	Pass
				3.7	5209.925	5150 to 5250	Pass
				4.26	5210.075	5150 to 5250	Pass
			-30	3.7	5210.000	5150 to 5250	Pass
			-20	3.7	5209.925	5150 to 5250	Pass
			-10	3.7	5210.075	5150 to 5250	Pass
			0	3.7	5209.925	5150 to 5250	Pass
			10	3.7	5209.925	5150 to 5250	Pass
			30	3.7	5210.000	5150 to 5250	Pass
			40	3.7	5210.000	5150 to 5250	Pass
			50	3.7	5210.000	5150 to 5250	Pass
		5290	20	3.15	5290.075	5250 to 5350	Pass
				3.7	5290.075	5250 to 5350	Pass
				4.26	5290.075	5250 to 5350	Pass
			-30	3.7	5290.075	5250 to 5350	Pass
			-20	3.7	5290.075	5250 to 5350	Pass

						5350	
			-10	3.7	5290.075	5250 to 5350	Pass
			0	3.7	5290.000	5250 to 5350	Pass
			10	3.7	5290.075	5250 to 5350	Pass
			30	3.7	5290.000	5250 to 5350	Pass
			40	3.7	5290.075	5250 to 5350	Pass
			50	3.7	5290.075	5250 to 5350	Pass
		5530	20	3.15	5529.925	5470 to 5725	Pass
				3.7	5530.075	5470 to 5725	Pass
				4.26	5529.925	5470 to 5725	Pass
			-30	3.7	5530.000	5470 to 5725	Pass
			-20	3.7	5530.000	5470 to 5725	Pass
			-10	3.7	5530.075	5470 to 5725	Pass
			0	3.7	5529.925	5470 to 5725	Pass
			10	3.7	5530.000	5470 to 5725	Pass
			30	3.7	5529.925	5470 to 5725	Pass
			40	3.7	5530.000	5470 to 5725	Pass
			50	3.7	5529.925	5470 to 5725	Pass
		5610	20	3.15	5610.075	5470 to 5725	Pass
				3.7	5610.075	5470 to 5725	Pass
				4.26	5610.075	5470 to 5725	Pass
			-30	3.7	5610.075	5470 to 5725	Pass
			-20	3.7	5610.000	5470 to 5725	Pass
			-10	3.7	5610.075	5470 to 5725	Pass
			0	3.7	5610.000	5470 to 5725	Pass

			10	3.7	5610.075	5470 to 5725	Pass
			30	3.7	5610.075	5470 to 5725	Pass
			40	3.7	5610.075	5470 to 5725	Pass
			50	3.7	5610.000	5470 to 5725	Pass
		5775	20	3.15	5775.000	5725 to 5850	Pass
				3.7	5774.925	5725 to 5850	Pass
				4.26	5774.925	5725 to 5850	Pass
			-30	3.7	5774.925	5725 to 5850	Pass
			-20	3.7	5775.000	5725 to 5850	Pass
			-10	3.7	5774.925	5725 to 5850	Pass
			0	3.7	5774.925	5725 to 5850	Pass
			10	3.7	5774.925	5725 to 5850	Pass
			30	3.7	5774.925	5725 to 5850	Pass
			40	3.7	5775.000	5725 to 5850	Pass
			50	3.7	5775.000	5725 to 5850	Pass

Appendix A: Test Result of Conducted Test

Duty Cycle

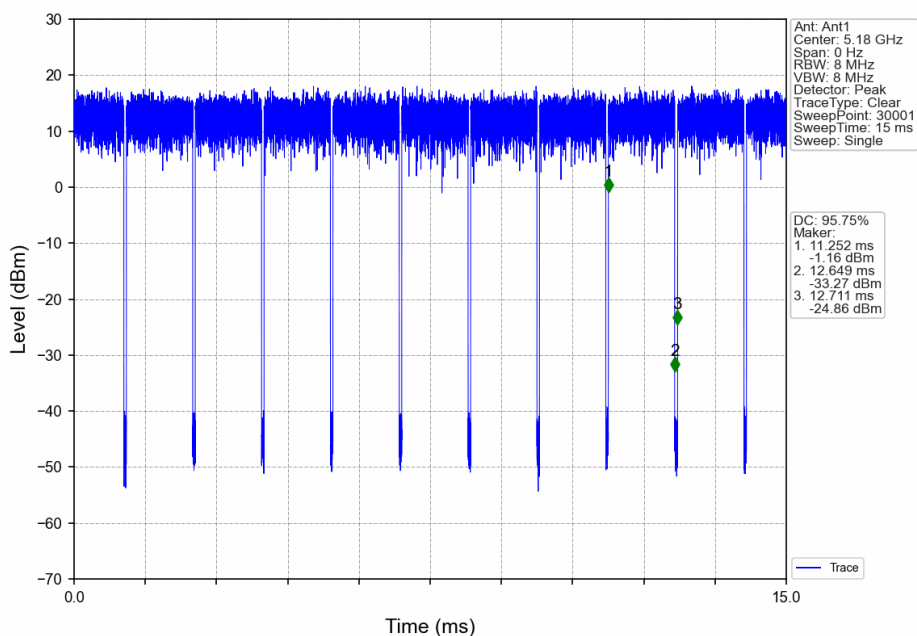
1.1.1 Test Result

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	1.397	1.459	95.75	0.19	0.59
		5200	1.396	1.450	96.28	0.16	0.03
		5240	1.396	1.450	96.28	0.16	0.03
		5260	1.397	1.459	95.75	0.19	0.63
		5300	1.397	1.450	96.34	0.16	0.03
		5320	1.396	1.459	95.68	0.19	0.63
		5500	1.398	1.460	95.75	0.19	0.56
		5580	1.396	1.459	95.68	0.19	0.66
		5700	1.396	1.459	95.68	0.19	0.59
		5745	1.397	1.459	95.75	0.19	0.63
		5785	1.396	1.450	96.28	0.16	0.03
		5825	1.396	1.459	95.68	0.19	0.63
802.11n (HT20)	SISO	5180	1.181	1.235	95.63	0.19	0.03
		5200	1.182	1.235	95.71	0.19	0.04
		5240	1.181	1.236	95.55	0.20	0.03
		5260	1.181	1.235	95.63	0.19	0.07
		5300	1.181	1.235	95.63	0.19	0.04
		5320	1.181	1.235	95.63	0.19	0.04
		5500	1.181	1.235	95.63	0.19	0.04
		5580	1.181	1.235	95.63	0.19	0.71
		5700	1.181	1.235	95.63	0.19	0.04
		5745	1.182	1.236	95.63	0.19	0.03
		5785	1.181	1.235	95.63	0.19	0.71
		5825	1.181	1.235	95.63	0.19	0.04
802.11n (HT40)	SISO	5190	0.587	0.640	91.72	0.38	0.00
		5230	0.587	0.640	91.72	0.38	0.03
		5270	0.587	0.640	91.72	0.38	0.03
		5310	0.587	0.640	91.72	0.38	0.00
		5510	0.587	0.640	91.72	0.38	0.00
		5550	0.588	0.640	91.88	0.37	0.03
		5670	0.587	0.640	91.72	0.38	0.03
		5755	0.587	0.640	91.72	0.38	0.03
		5795	0.588	0.640	91.88	0.37	0.03
802.11ac (VHT20)	SISO	5180	1.189	1.243	95.66	0.19	0.03
		5200	1.188	1.242	95.65	0.19	0.04
		5240	1.189	1.242	95.73	0.19	0.03
		5260	1.189	1.243	95.66	0.19	0.03
		5300	1.189	1.242	95.73	0.19	0.04
		5320	1.189	1.242	95.73	0.19	0.04

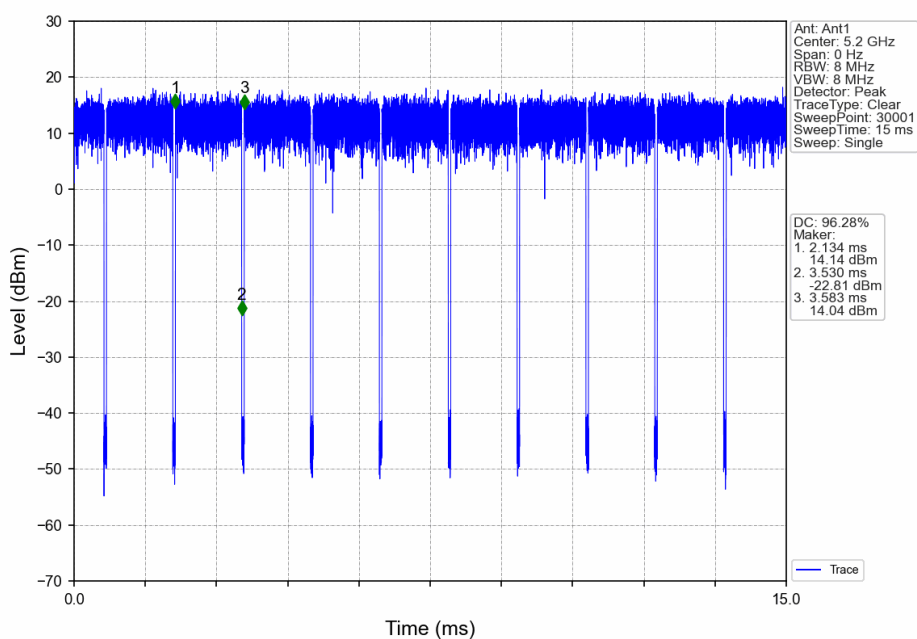
		5500	1.188	1.241	95.73	0.19	0.03
		5580	1.189	1.242	95.73	0.19	0.03
		5700	1.189	1.242	95.73	0.19	0.03
		5745	1.189	1.242	95.73	0.19	0.04
		5785	1.189	1.242	95.73	0.19	0.03
		5825	1.189	1.242	95.73	0.19	0.03
802.11ac (VHT40)	SISO	5190	0.595	0.648	91.82	0.37	0.06
		5230	0.595	0.648	91.82	0.37	0.06
		5270	0.595	0.648	91.82	0.37	1.27
		5310	0.595	0.648	91.82	0.37	0.04
		5510	0.595	0.648	91.82	0.37	0.03
		5550	0.595	0.648	91.82	0.37	1.31
		5670	0.595	0.648	91.82	0.37	0.03
		5755	0.595	0.648	91.82	0.37	0.06
		5795	0.595	0.648	91.82	0.37	1.31
802.11ac (VHT80)	SISO	5210	0.296	0.349	84.81	0.72	0.04
		5290	0.297	0.349	85.10	0.70	0.03
		5530	0.296	0.349	84.81	0.72	0.08
		5610	0.296	0.349	84.81	0.72	0.08
		5775	0.296	0.349	84.81	0.72	0.07

1.1.2 Test Graph

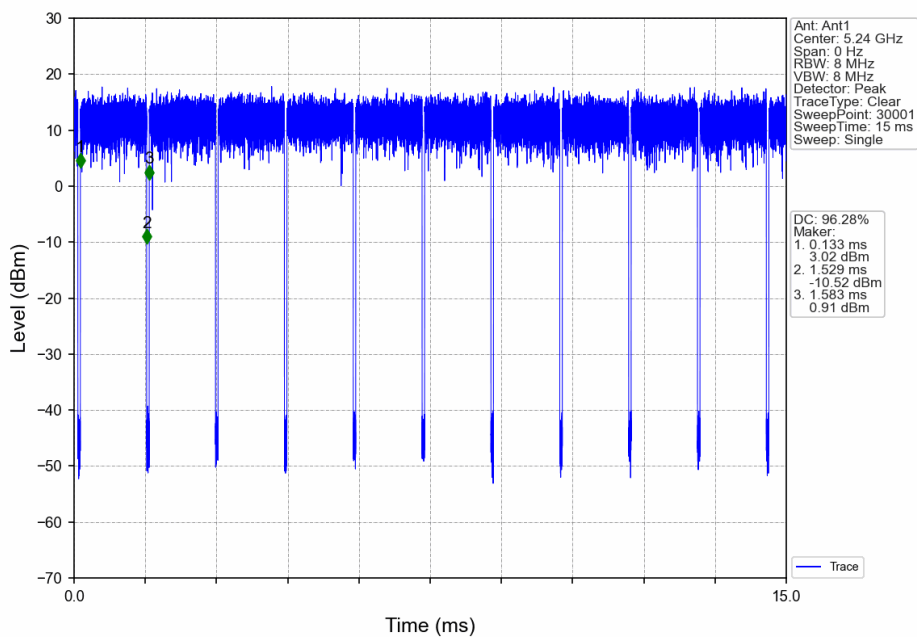
802.11a_LCH_5180MHz_Ant1_NTNV



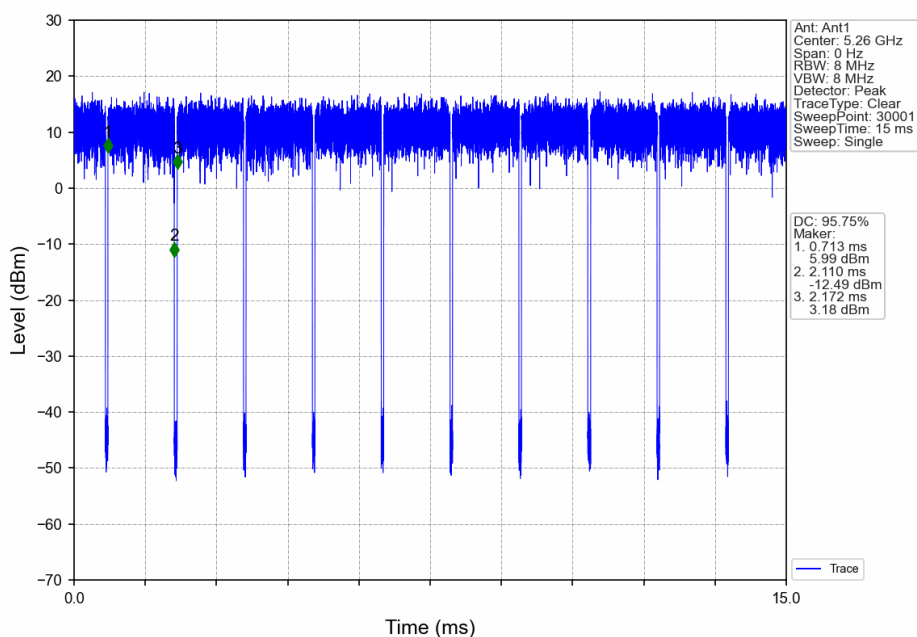
802.11a_MCH_5200MHz_Ant1_NTNV



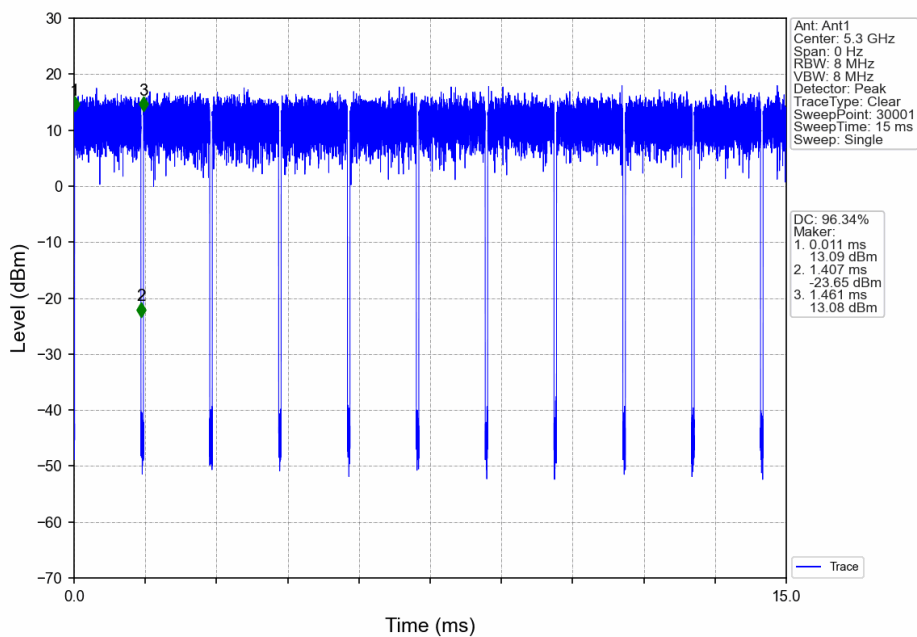
802.11a_HCH_5240MHz_Ant1_NTNV



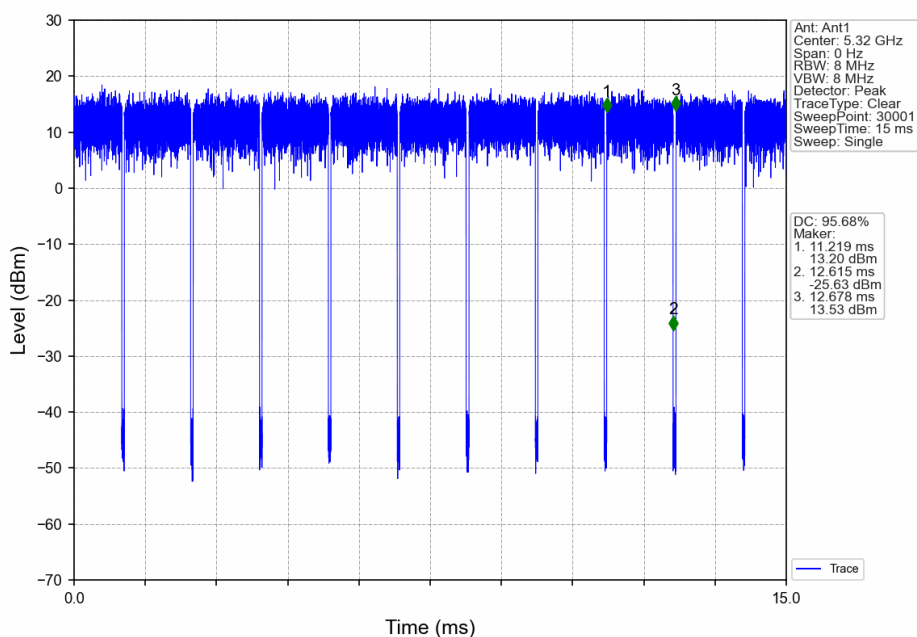
802.11a_LCH_5260MHz_Ant1_NTNV



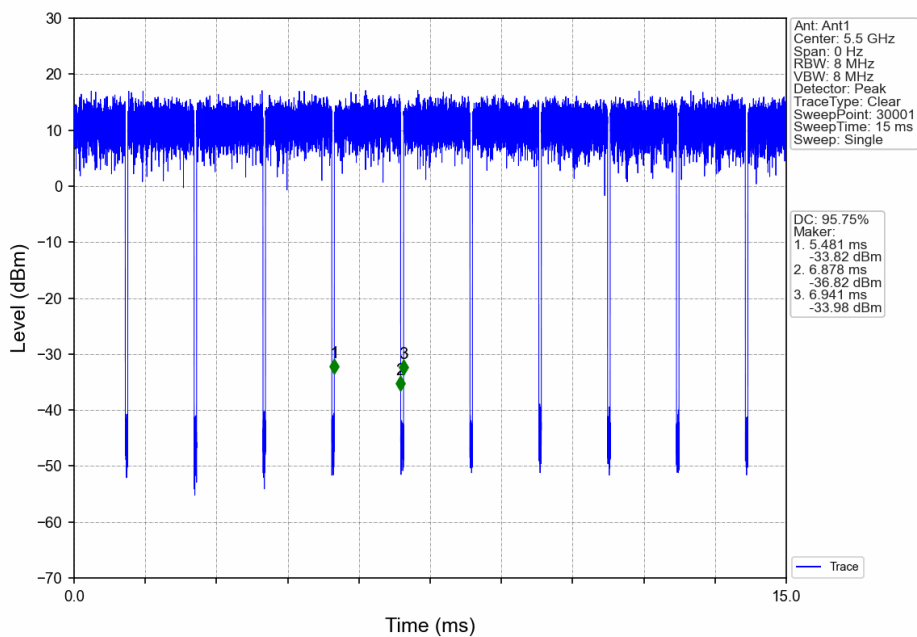
802.11a_MCH_5300MHz_Ant1_NTNV



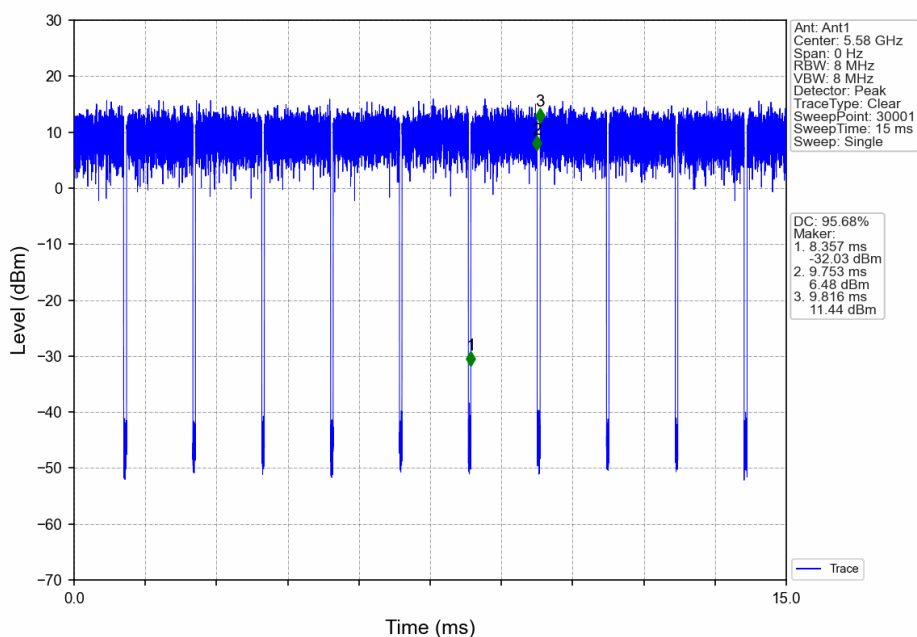
802.11a_HCH_5320MHz_Ant1_NTNV



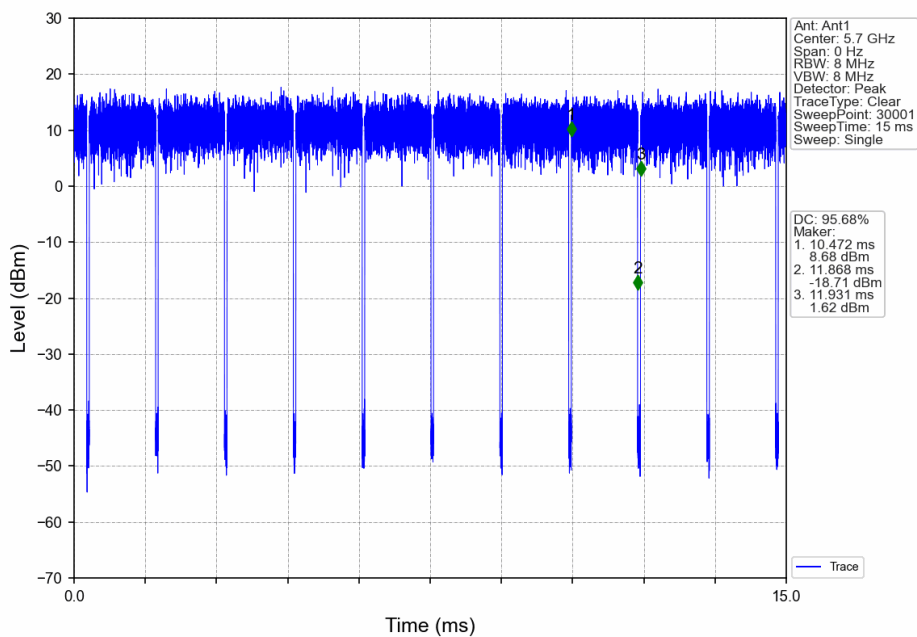
802.11a_LCH_5500MHz_Ant1_NTNV



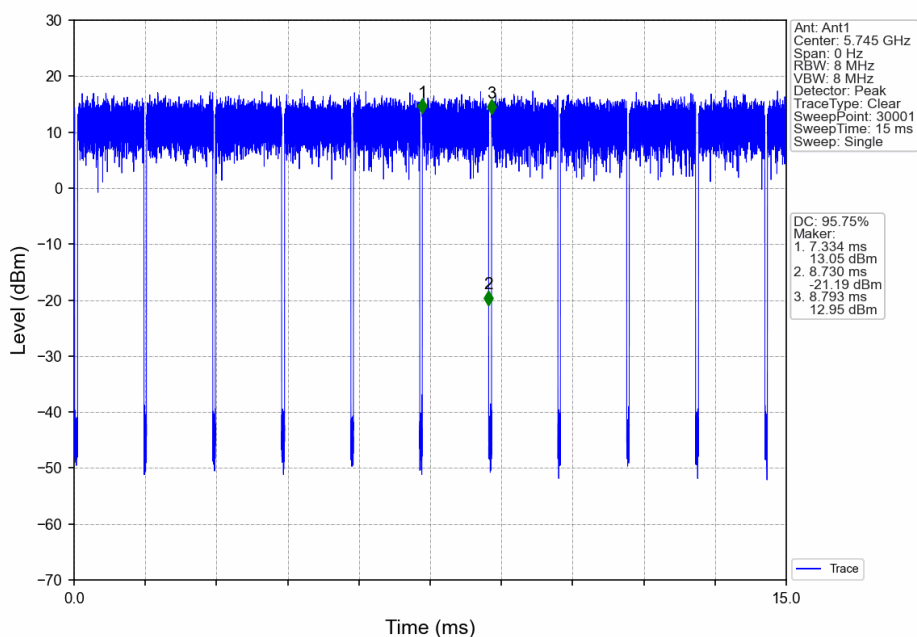
802.11a_MCH_5580MHz_Ant1_NTNV



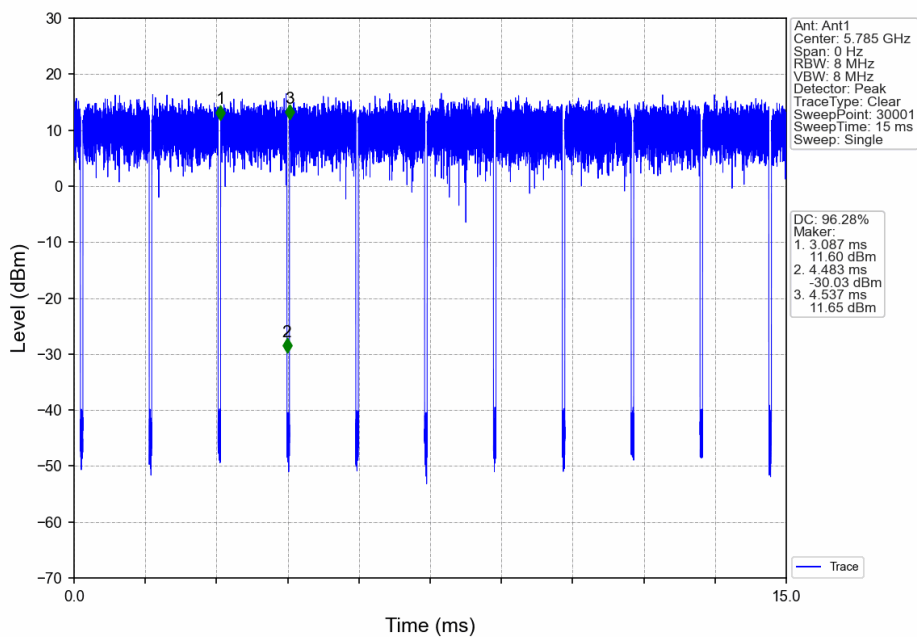
802.11a_HCH_5700MHz_Ant1_NTNV



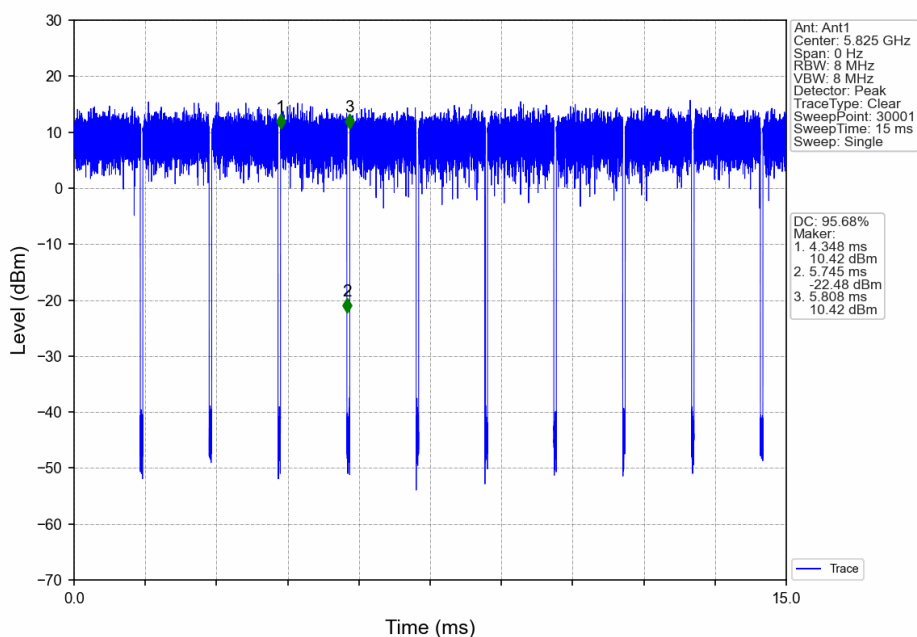
802.11a_LCH_5745MHz_Ant1_NTNV



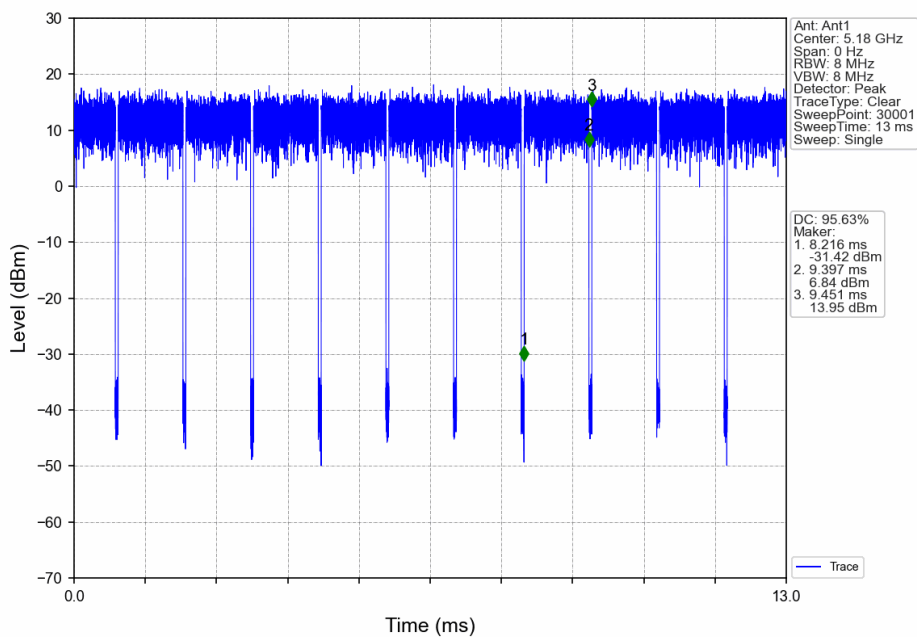
802.11a_MCH_5785MHz_Ant1_NTNV



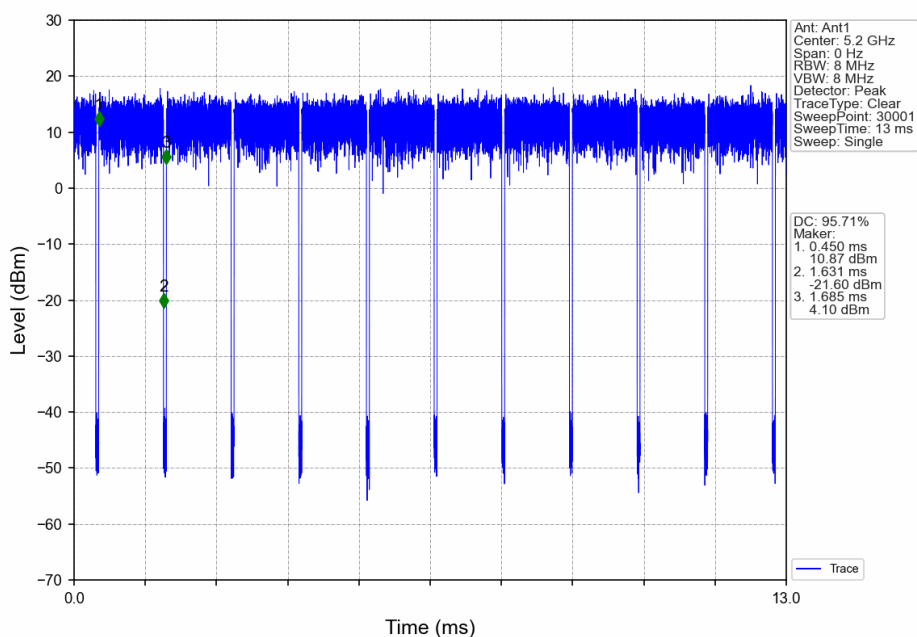
802.11a_HCH_5825MHz_Ant1_NTNV



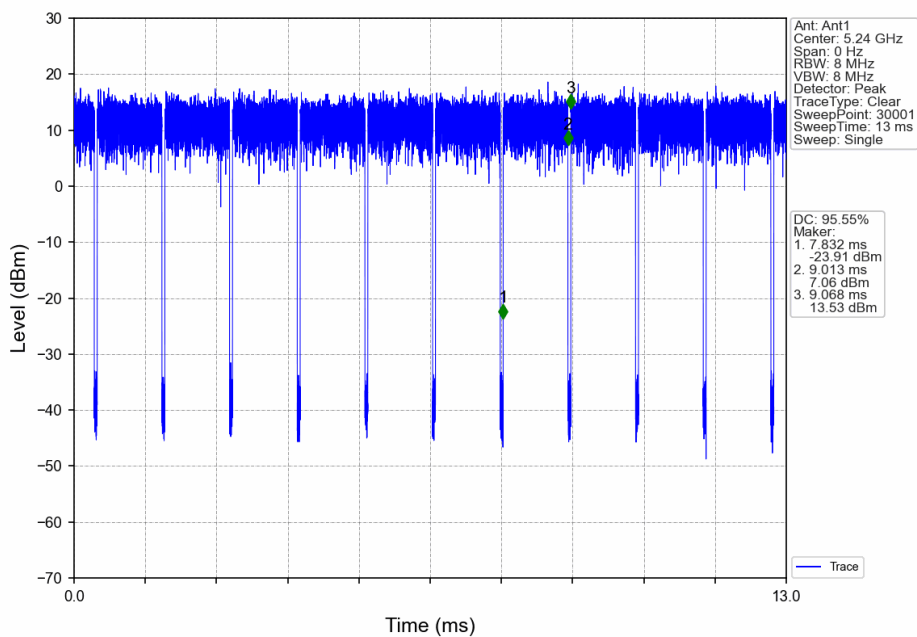
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



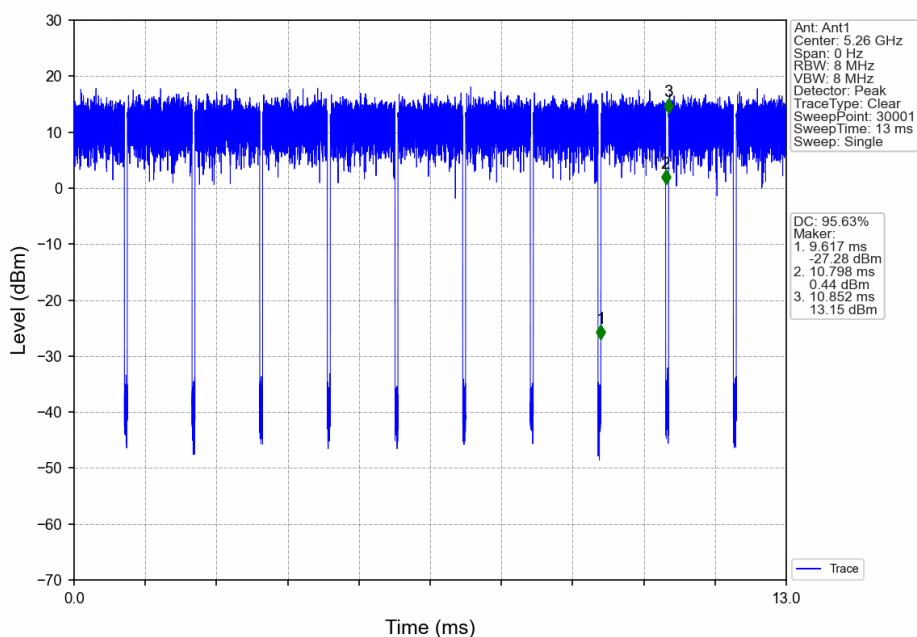
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



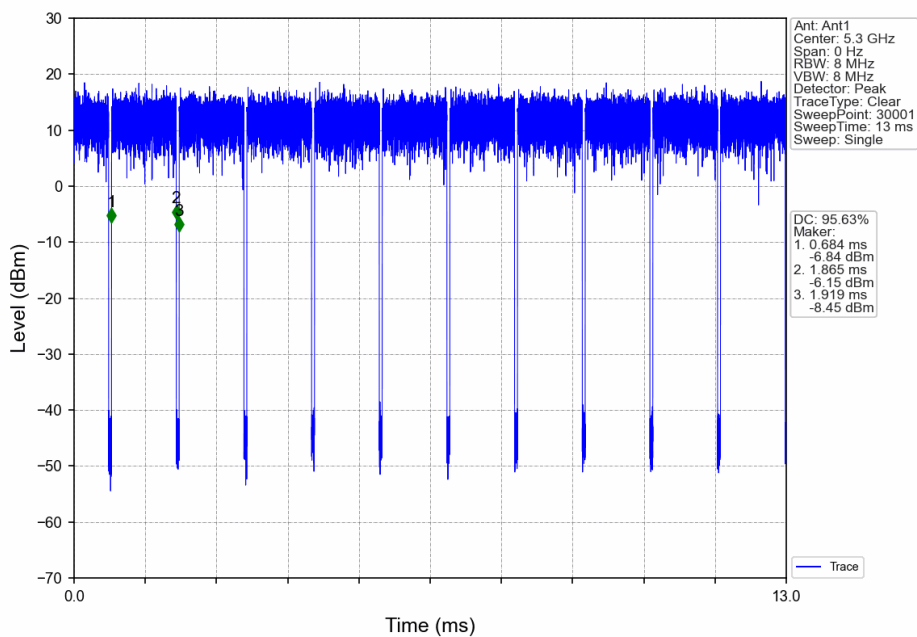
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



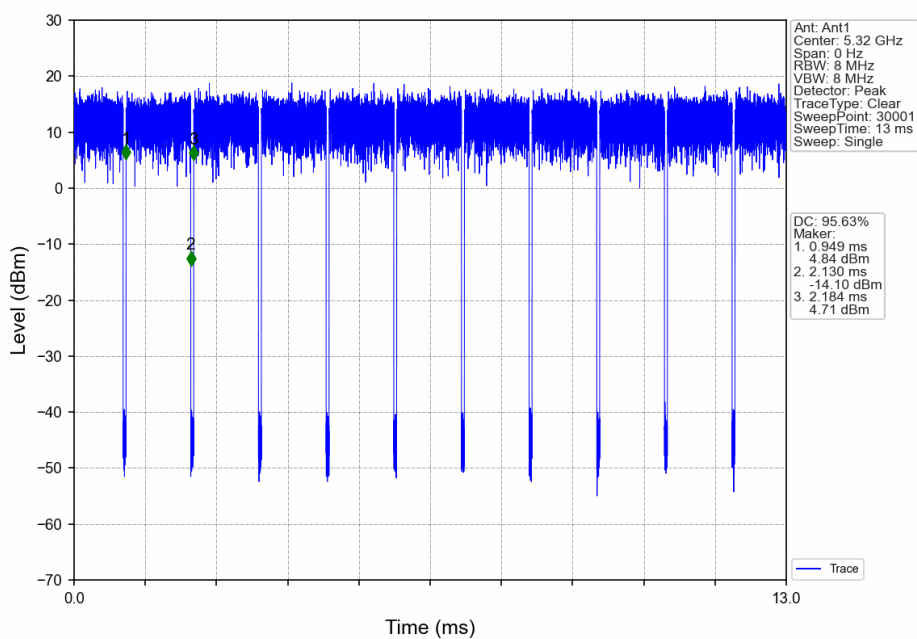
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



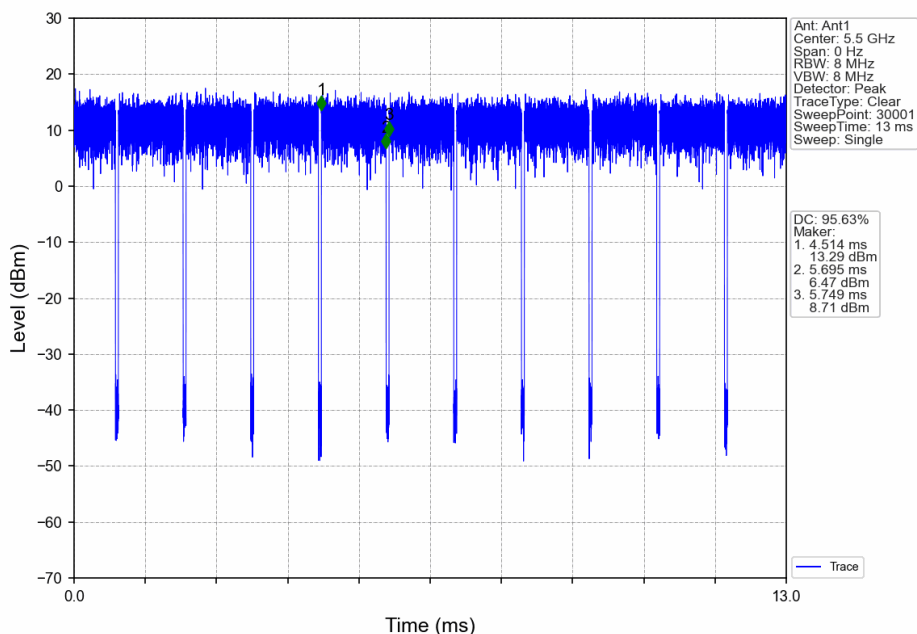
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



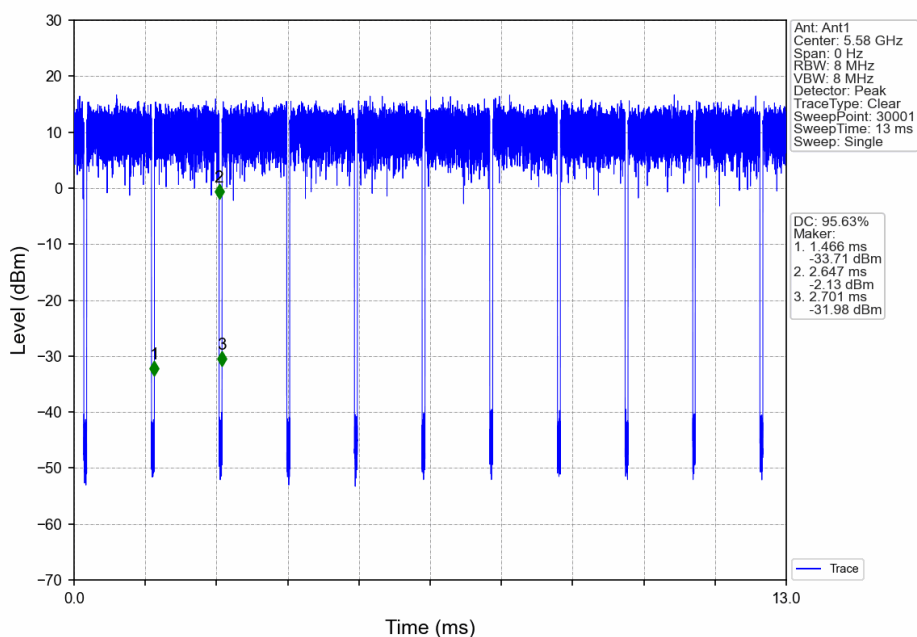
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



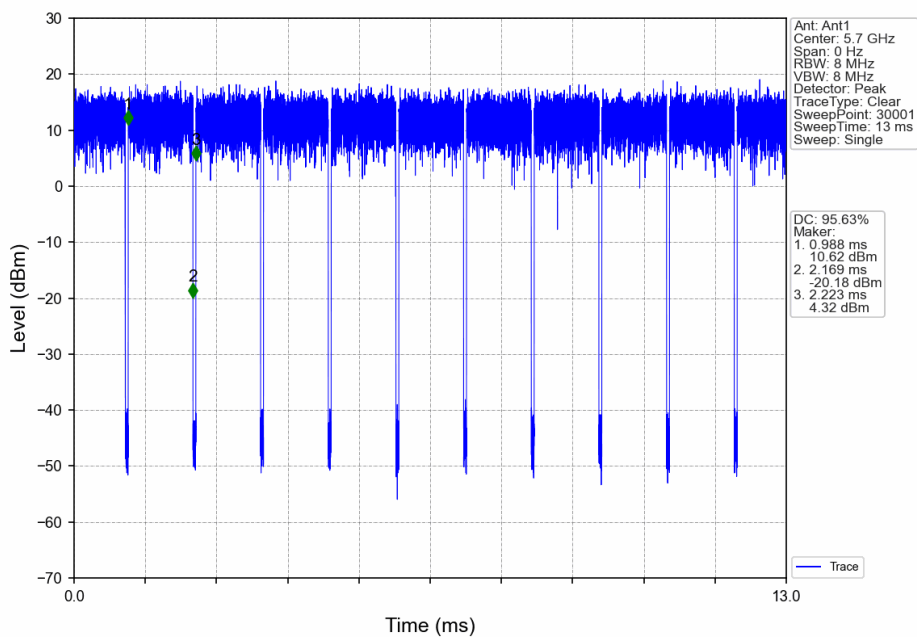
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



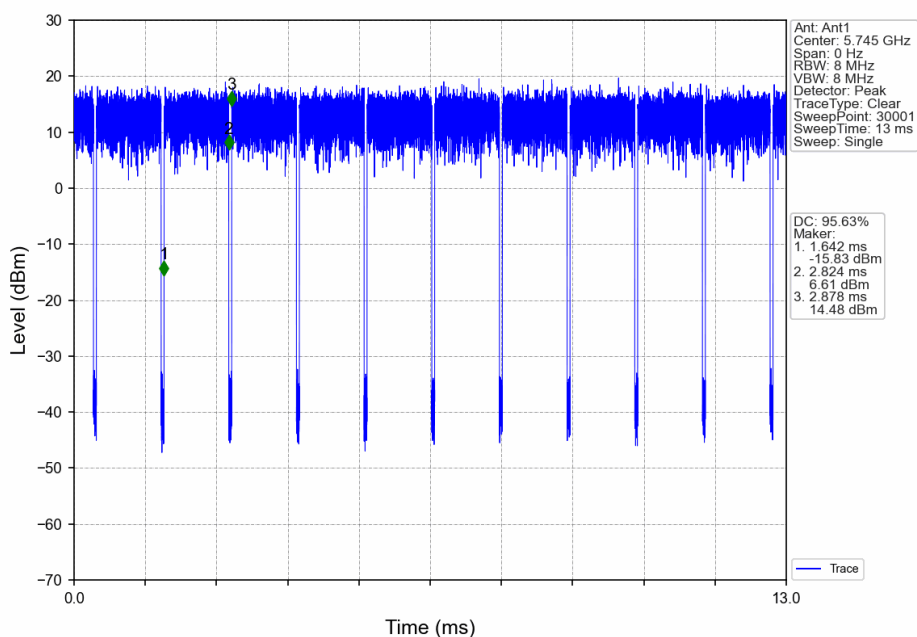
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



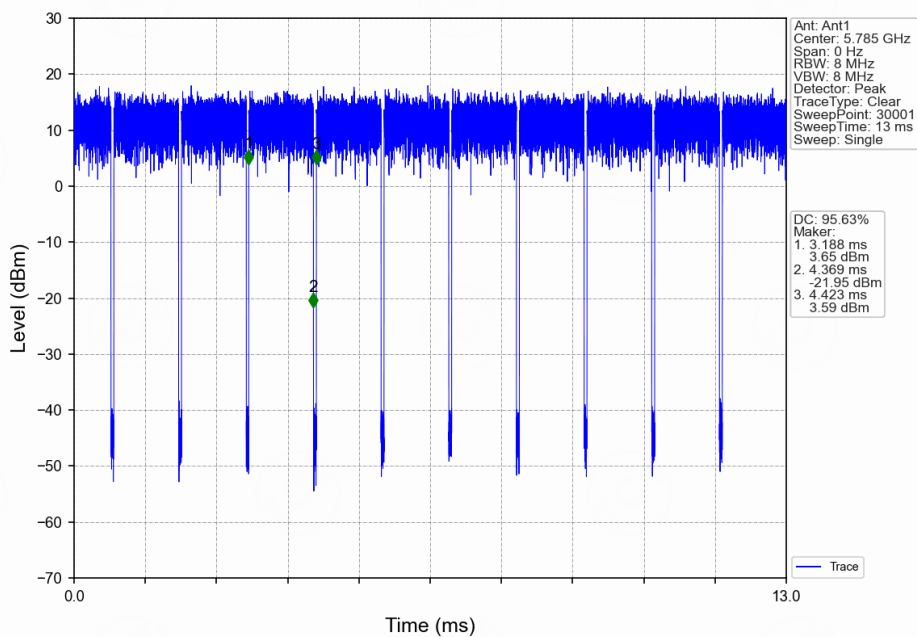
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



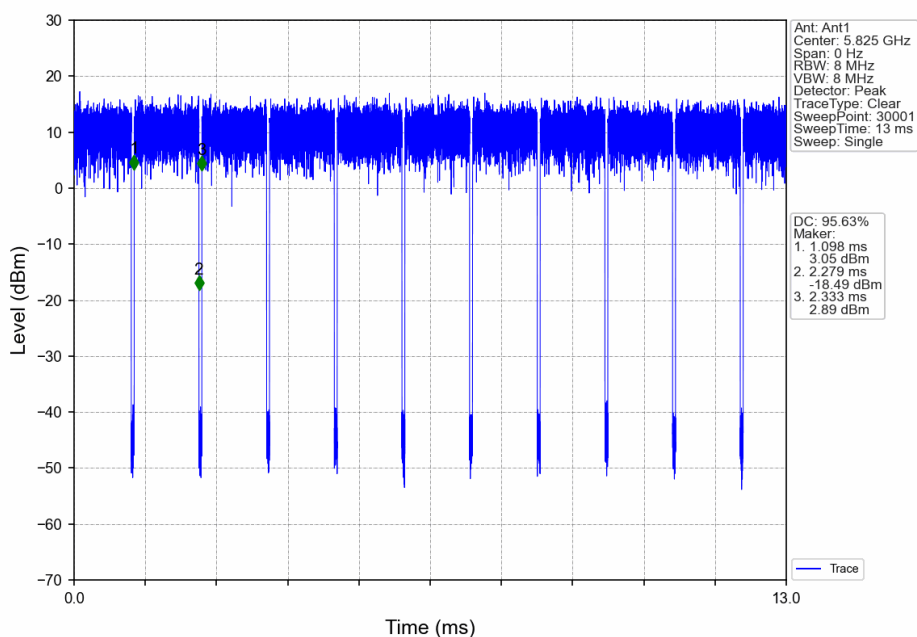
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



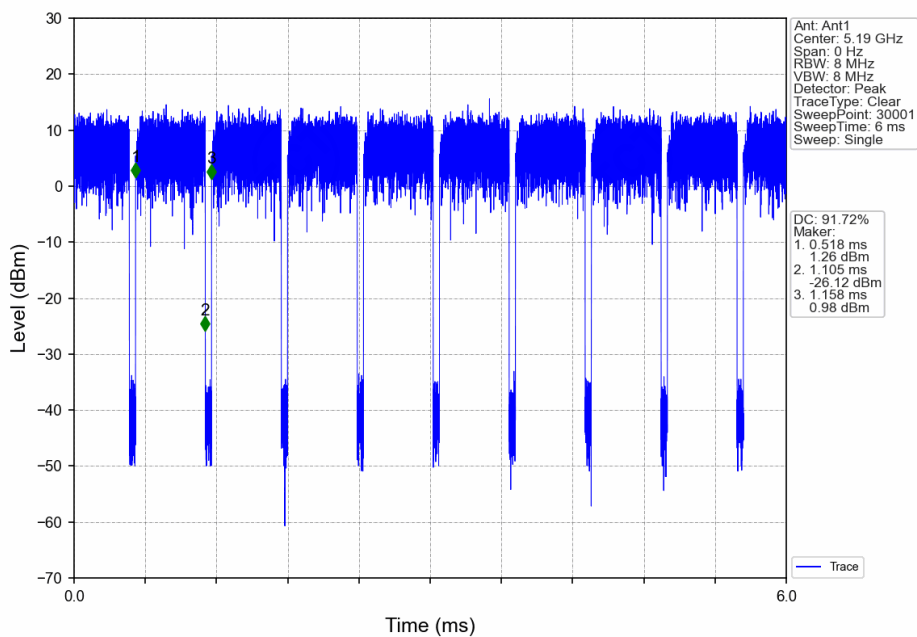
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



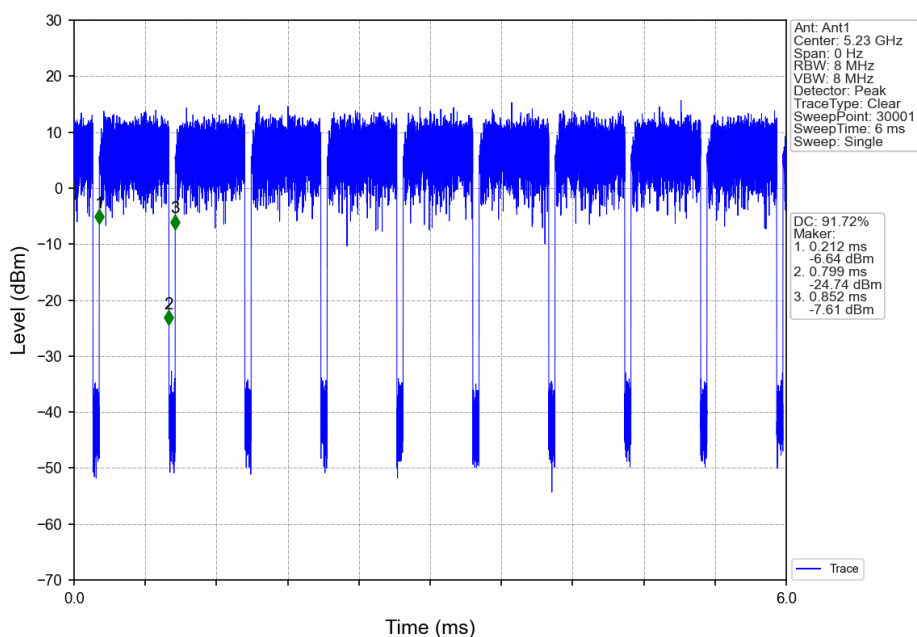
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



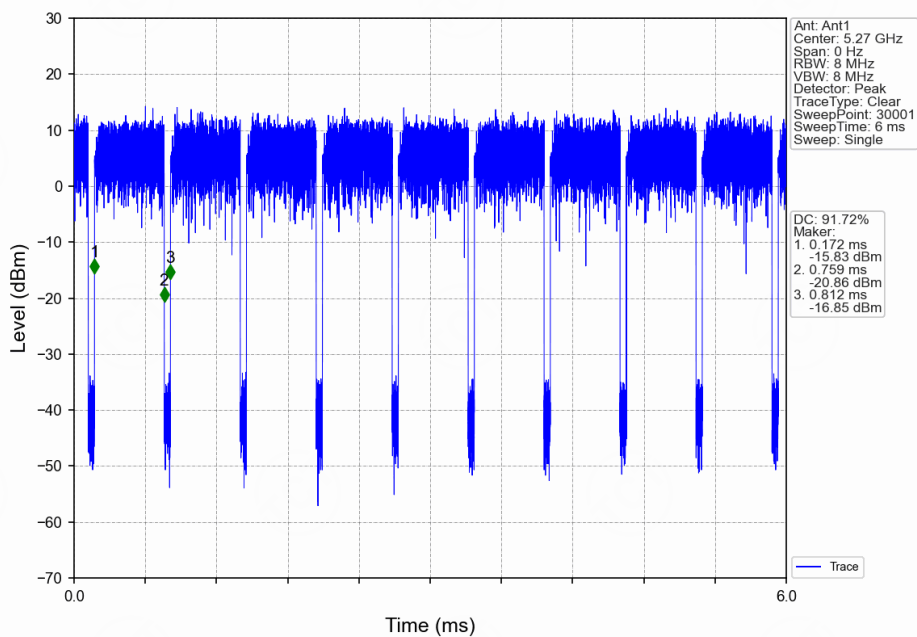
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV

