

FCC Test Report

Product Name	11ax Cloud Managed AP
Model No.	ECW336
FCC ID	A8J-ECW336

Applicant	EnGenius Technologies
Address	1580 Scenic Avenue, Costa Mesa, CA92626

Date of Receipt	Mar. 07, 2022
Issued Date	May 20, 2022
Report No.	2230212R-RFUSWL5V01-A
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Report

Issued Date: May 20, 2022

Report No.: 2230212R-RFUSWL5V01-A



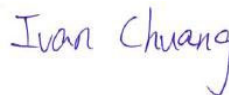
Product Name	11ax Cloud Managed AP
Applicant	EnGenius Technologies
Address	1580 Scenic Avenue, Costa Mesa, CA92626
Manufacturer	Senao Networks, Inc.
Model No.	ECW336
FCC ID	A8J-ECW336
EUT Rated Voltage	AC 100-240V / 50-60Hz
EUT Test Voltage	AC 120V / 60Hz
Trade Name	EnGenius
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E ANSI C63.4: 2014, ANSI C63.10: 2013 KDB Publication 789033
Test Result	Complied

Documented By :



(Senior Project Specialist / Genie Chang)

Tested By :



(Senior Engineer / Ivan Chuang)

Approved By :



(Senior Engineer / Alan Chen)

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Revision History

Report No.	Version	Description	Issued Date
2230212R-RFUSWL5V01-A	V1.0	Initial issue of report.	2022-05-20

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	11ax Cloud Managed AP
Trade Name	EnGenius
Model No.	ECW336
FCC ID	A8J-ECW336
Frequency Range	802.11a/n/ac/ax-20MHz: 5180-5320MHz, 5500-5700MHz, 5720MHz, 5745-5825MHz 802.11n/ac/ax-40MHz: 5190-5310, 5510-5670MHz, 5710MHz, 5755-5795MHz 802.11ac/ax-80MHz: 5210-5290MHz, 5530-5690MHz, 5775MHz
Number of Channels	802.11a/n/ac-20MHz: 25 802.11n/ac-40MHz: 12 802.11ac/ax-80MHz: 6
Data Rate	802.11a: 6 - 54Mbps 802.11n: up to 800MHz 802.11ac: up to 1733.3MHz 802.11ax: up to 2402MHz
Type of Modulation	OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM OFDM, OFDMA, BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Channel Control	Auto
Antenna type	PIFA Antenna
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Senao	ECW336	PIFA antenna	4.87dBi for 5150~5250 MHz 4.87dBi for 5250~5350 MHz 4.73dBi for 5470~5725 MHz 5.09dBi for 5725~5850 MHz
2	Senao	ECW336	PIFA antenna	4.01dBi for 5150~5250 MHz 4.01dBi for 5250~5350 MHz 2.55dBi for 5470~5725 MHz 3.04dBi for 5725~5850 MHz
3	Senao	ECW336	PIFA antenna	4.36dBi for 5150~5250 MHz 4.36dBi for 5250~5350 MHz 4.39dBi for 5470~5725 MHz 4.56dBi for 5725~5850 MHz
4	Senao	ECW336	PIFA antenna	3.59dBi for 5150~5250 MHz 3.59dBi for 5250~5350 MHz 3.18dBi for 5470~5725 MHz 4.01dBi for 5725~5850 MHz

Note: The antenna of EUT is conform to FCC 15.203.

For power CDD Directional gain	For power Beamforming Directional gain
4.87dBi for 5150~5250 MHz	10.89dBi for 5150~5250 MHz
4.87dBi for 5250~5350 MHz	10.89dBi for 5250~5350 MHz
4.73dBi for 5470~5725 MHz	10.75dBi for 5470~5725 MHz
5.09dBi for 5725~5850 MHz	11.11dBi for 5725~5850 MHz

For CDD mode:

5150MHz-5250MHz: Directional gain = 4.87 dBi

5250MHz-5350MHz: Directional gain = 4.87 dBi

5470MHz-5725MHz: Directional gain = 4.73 dBi

5725MHz-5850MHz: Directional gain = 5.09 dBi

(Directional gain = $G_{ANT\ MAX}$ + Array Gain, Array Gain = 0 dB for $N_{ANT} \leq 4$)**For Beamforming mode:**

5150MHz-5250MHz: Directional gain = 10.89 dBi

5250MHz-5350MHz: Directional gain = 10.89 dBi

5470MHz-5725MHz: Directional gain = 10.75 dBi

5725MHz-5850MHz: Directional gain = 11.11 dBi

Directional gain = $G_{ANT\ MAX}$ + Array Gain, Array Gain = $10 \cdot \log(4) = 6.02$ dB)

For PSD Directional gain
10.25dBi for 5150~5250 MHz
10.25dBi for 5250~5350 MHz
9.85dBi for 5470~5725 MHz
10.26dBi for 5725~5850 MHz

5150MHz-5250MHz: Directional gain = 10.25 dBi

5250MHz-5350MHz: Directional gain = 10.25 dBi

5470MHz-5725MHz: Directional gain = 9.85 dBi

5725MHz-5850MHz: Directional gain = 10.26 dBi

Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$ dBi

802.11a/n/ac/ax -20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 36:	5180 MHz	Channel 40:	5200 MHz	Channel 44:	5220 MHz	Channel 48:	5240 MHz
Channel 52:	5260 MHz	Channel 56:	5280 MHz	Channel 60:	5300 MHz	Channel 64:	5320 MHz
Channel 100:	5500 MHz	Channel 104:	5520 MHz	Channel 108:	5540 MHz	Channel 112:	5560 MHz
Channel 116:	5580 MHz	Channel 120:	5600 MHz	Channel 124:	5620 MHz	Channel 128:	5640 MHz
Channel 132:	5660 MHz	Channel 136:	5680 MHz	Channel 140:	5700 MHz	Channel 144:	5720 MHz
Channel 149:	5745 MHz	Channel 153:	5765 MHz	Channel 157:	5785 MHz	Channel 161:	5805 MHz
Channel 165:	5825 MHz						

802.11n/ac/ax -40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 38:	5190 MHz	Channel 46:	5230 MHz	Channel 54:	5270 MHz	Channel 62:	5310 MHz
Channel 102:	5510 MHz	Channel 110:	5550 MHz	Channel 118:	5590 MHz	Channel 126:	5630 MHz
Channel 134:	5670 MHz	Channel 142:	5710 MHz	Channel 151:	5755 MHz	Channel 159:	5795 MHz

802.11ac/ax -80MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 42:	5210 MHz	Channel 58:	5290 MHz	Channel 106:	5530 MHz	Channel 122:	5610 MHz
Channel 138:	5690 MHz	Channel 155:	5775 MHz				

Note:

1. This device is a 11ax Cloud Managed AP with built-in WLAN(802.11a/b/g/n/ac/ax) transceiver, this report for 5GHz WLAN.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report.
(802.11a is 6Mbps 、802.11ax-20BW/40BW/80BW is MCS0)
4. The CDD mode and Beamforming mode are presented in the power output test item. For other test items, CDD mode is the worst case for the final test and shown in this report.
5. These tests were conducted on a sample for the purpose of demonstrating compliance of 802.11a/n/ac/ax transmitter with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.

Test Mode	Mode 1: Transmit (802.11a-CDD) Mode 2: Transmit (802.11ax-20BW-CDD) Mode 3: Transmit (802.11ax-40BW-CDD) Mode 4: Transmit (802.11ax-80BW-CDD) Mode 5: Transmit (802.11ax-20BW-Beamforming) Mode 6: Transmit (802.11ax-40BW-Beamforming) Mode 7: Transmit (802.11ax-80BW-Beamforming)
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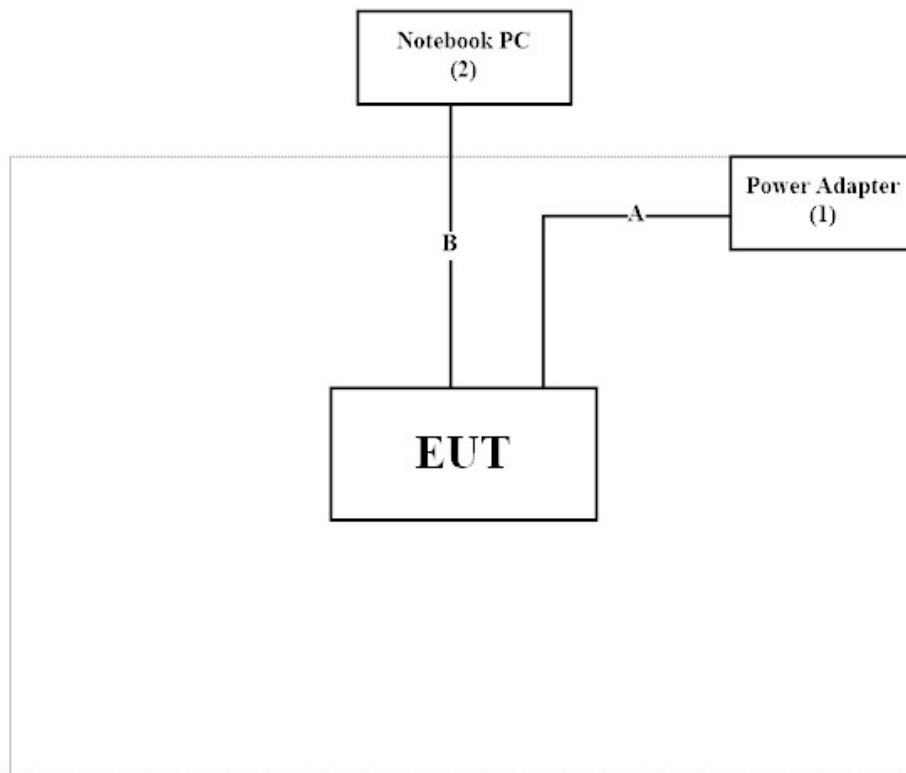
1.2. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Power Adapter	APD	WA-30J12R	N/A
2	Notebook PC	Lenovo	TP00067C	PF-0EW0C3

Signal Cable Type	Signal cable Description
A	Power Cable
B	LAN Cable

1.3. Configuration of tested System



1.4. EUT Exercise Software

1. Setup the EUT as shown in Section 1.4.
2. Execute software “QSPR Version V5.0-00199” on the Notebook PC.
3. Configure the test mode, the test channel, and the data rate.
4. Press “OK” to start the continuous Transmit.
5. Verify that the EUT works properly.

1.5. Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	10~40 °C	24.4 °C
	Humidity (%RH)	10~90 %	60.1 %
Radiated Emission	Temperature (°C)	10~40 °C	24.8 °C
	Humidity (%RH)	10~90 %	65.8 %
Conductive	Temperature (°C)	10~40 °C	22 °C
	Humidity (%RH)	10~90 %	55 %

USA : FCC Registration Number: TW0033

Canada : CAB Identifier Number: TW3023 / Company Number: 26930

Site Description : Accredited by TAF
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd
Address : No. 5-22, Ruishukeng Linkou District, New Taipei City,
24451, Taiwan
Performed : No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City
Location : 333411, Taiwan, R.O.C.
Phone number : +886-3-275-7255
Fax number : +866-3-327-8031
Email address : info.tw@dekra.com
Website : <http://www.dekra.com.tw>

1.6. List of Test Equipment

For Conduction measurements /HY-SR01

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due. Date
X	EMI Test Receiver	R&S	ESR7	101601	2021/06/19	2022/06/18
X	Two-Line V-Network	R&S	ENV216	101306	2022/04/08	2023/04/07
X	Two-Line V-Network	R&S	ENV216	101307	2022/05/04	2023/05/03
X	Coaxial Cable	SUHNER	RG400_BNC	RF001	2021/05/24	2022/05/23

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version : AUDIX e3 V9

For Conducted measurements /HY-SR02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due. Date
X	Spectrum Analyzer	R&S	FSV40	101149	2022/03/25	2023/03/24
X	Peak Power Analyzer	KEYSIGHT	8900B	MY51000539	2021/06/07	2022/06/06
X	Power Sensor	KEYSIGHT	N1923A	MY59240002	2021/05/17	2022/05/16
X	Power Sensor	KEYSIGHT	N1923A	MY59240003	2021/05/17	2022/05/16

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version : RF Conducted Test Tools R3 V3.0.1.19 .

For Radiated measurements /HY-CB03

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due. Date
X	Loop Antenna	AMETEK	HLA6121	49611	2022/03/18	2023/03/17
X	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-675	2021/08/11	2022/08/10
X	Horn Antenna	ETS-Lindgren	3117	00227700	2021/10/12	2022/10/11
X	Horn Antenna	Com-Power	AH-840	101100	2021/10/04	2022/10/03
X	Pre-Amplifier	SGH	0301	20211007-10	2022/02/22	2023/02/21
X	Pre-Amplifier	SGH	PRAMP118	20200202	2022/03/23	2023/03/22
X	Pre-Amplifier	EMCI	EMC05820SE	980310	2021/07/07	2022/07/06
X	Pre-Amplifier	EMCI	EMC184045SE	980369	2022/05/12	2023/05/11
	Coaxial Cable	EMCI	EMC102-KM-KM-600	1160314		
	Coaxial Cable	EMCI	EMC102-KM-KM-7000	170242		
	Filter	MICRO TRONICS	BRM50702	G251	2021/09/16	2022/09/15
X	Filter	MICRO TRONICS	BRM50716	G188	2021/09/16	2022/09/15
X	EMI Test Receiver	R&S	ESR	102793	2021/12/15	2022/12/14
X	Spectrum Analyzer	R&S	FSV3044	101114	2022/02/11	2023/02/10
X	Coaxial Cable	SGH	SGH18	2021005-3	2022/01/05	2023/01/04
	Coaxial Cable	SGH	SGH18	202108-4		
	Coaxial Cable	SGH	SGH18	202110223-1		
	Coaxial Cable	SGH	HA800	GD20110222-3		

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version : AUDIX e3 V9

1.7. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document, and is described in each test chapter of this report.

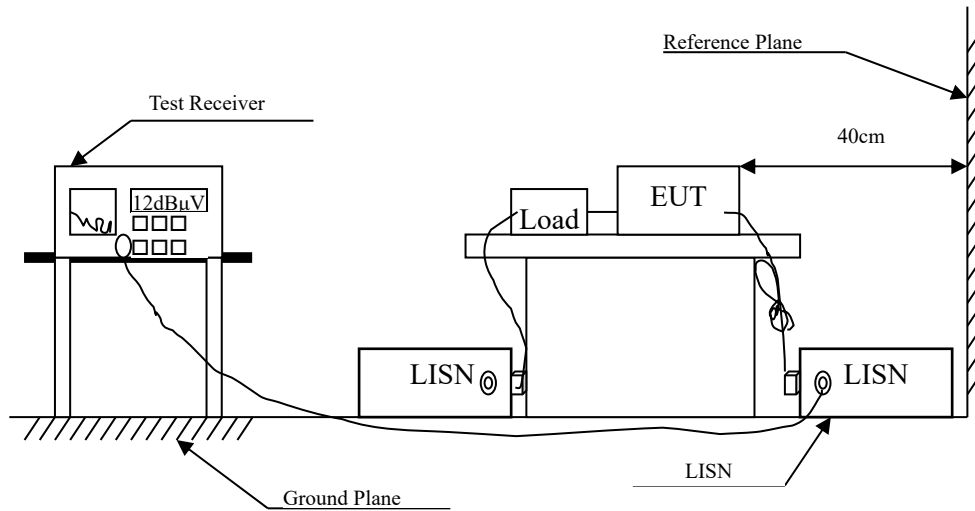
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test item	Uncertainty	
Conducted Emission	± 3.42 dB	
Maximun conducted output power	Power Meter ± 0.91 dB	
Peak Power Spectral Density	± 2.53 dB	
Radiated Emission	Under 1GHz ± 4.06 dB	Above 1GHz ± 3.73 dB
Band Edge	± 2.53 dB	
Occupied Bandwidth	± 682.83 Hz	
Duty Cycle	± 2.31 ms	

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dB μ V) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

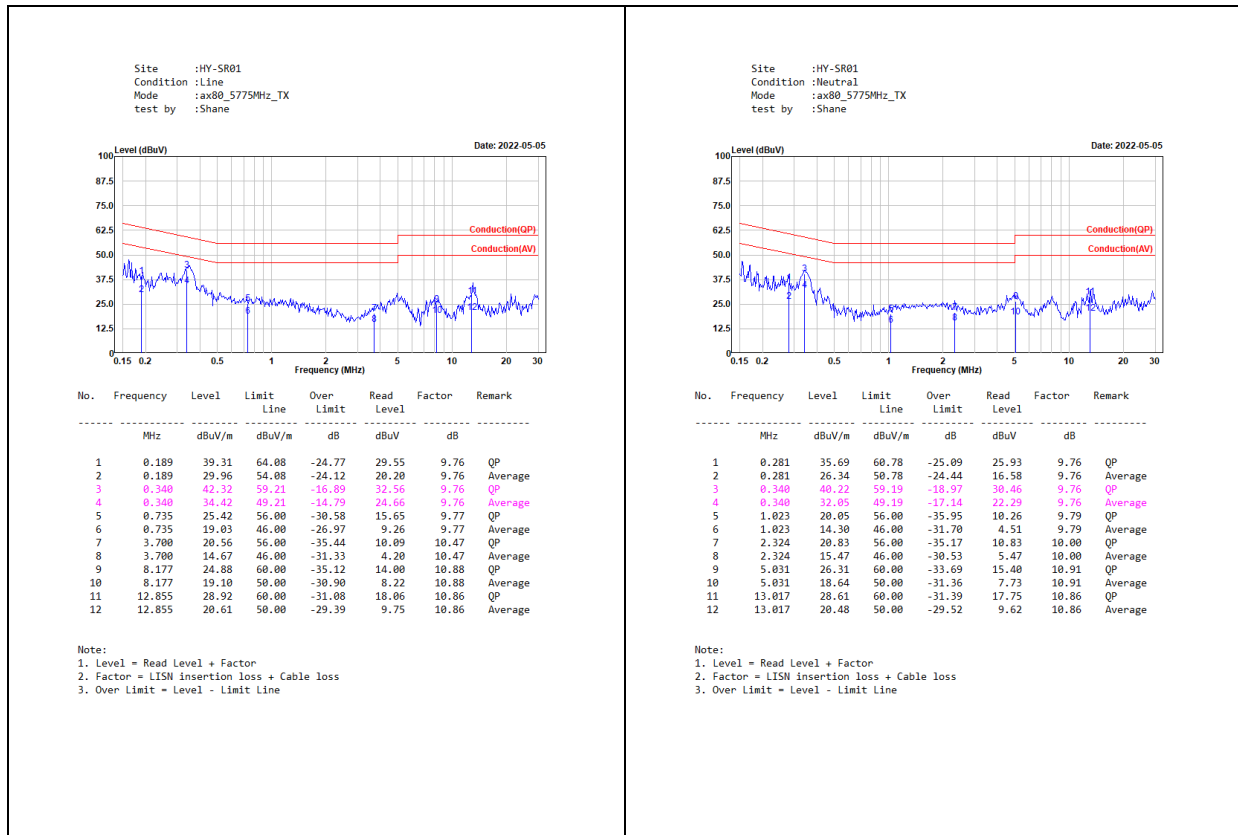
2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

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 C63.4:2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

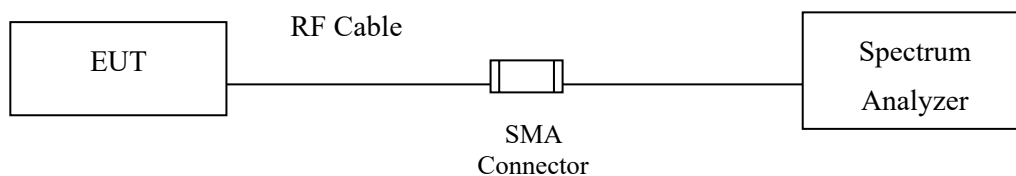
2.4. Test Result of Conducted Emission



3. Maximun conducted output power

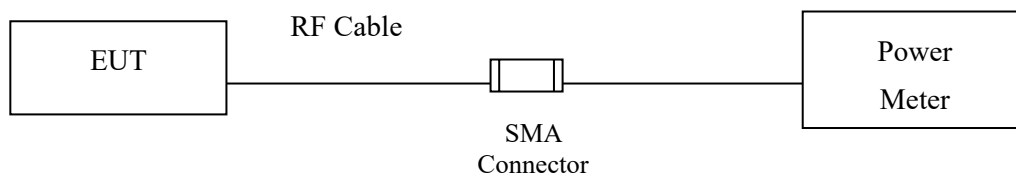
3.1. Test Setup

26dB Occupied Bandwidth

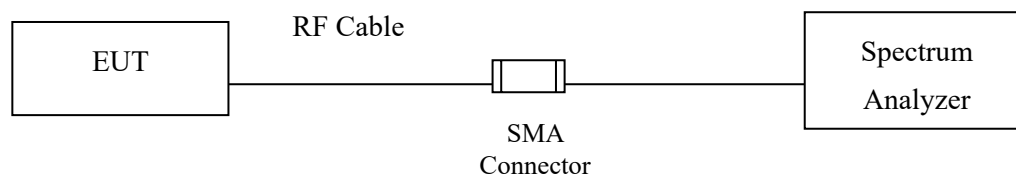


Conduction Power Measurement

Conduction Power Measurement (for 802.11an)



Conduction Power Measurement (for 802.11ac/ax)



3.2. Limits

For the band 5.15-5.25 GHz,

- (i) For an outdoor 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. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) 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. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points 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. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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 $11 \text{ dBm} + 10 \log B$, where B is the 99% emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point UNII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

The maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For CDD mode:

5150MHz-5250MHz: Directional gain = 4.87 dBi, Limit= 30dBm

5250MHz-5350MHz: Directional gain = 4.87 dBi, Limit= 24dBm

5470MHz-5725MHz: Directional gain = 4.73 dBi, Limit= 24dBm

5725MHz-5850MHz: Directional gain = 5.09 dBi, Limit= 30dBm

(Directional gain = $G_{ANT\ MAX} + \text{Array Gain}$, Array Gain = 0 dB for $N_{ANT} \leq 4$)

For Beamforming mode:

5150MHz-5250MHz: Directional gain = 10.89 dBi, Limit= 25.11dBm

5250MHz-5350MHz: Directional gain = 10.89 dBi, Limit= 19.11dBm

5470MHz-5725MHz: Directional gain = 10.75 dBi, Limit= 19.25dBm

5725MHz-5850MHz: Directional gain = 11.11 dBi, Limit= 24.89dBm

(Directional gain = $G_{ANT\ MAX} + \text{Array Gain}$, Array Gain = $10 \cdot \log(4) = 6.02$ dB)

3.3. Test Procedure

As an alternative to FCC KDB-789033, the EUT maximum conducted output power was measured with an average power meter employing a video bandwidth greater than the 6dB BW of the emission under test. Maximum conducted output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

802.11an (BW $\leq$ 40MHz) Maximum conducted output power using KDB 789033 section E)3)b)
Method PM-G (Measurement using a gated RF average power meter)

Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth, (Anritsu/ MA2411B video bandwidth: 65MHz)

802.11ac (BW=80MHz) Maximum conducted output power using KDB 789033 section E)2)b)
Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep).

When transmitted signals consist of two or more non-contiguous spectrum segments (e.g., 80+80 MHz mode) or when a single spectrum segment of a transmission crosses the boundary between two adjacent U-NII bands, KDB 644545 D03 section D) procedure is used for measurements.

3.4. Test Result of Maximum conducted output power

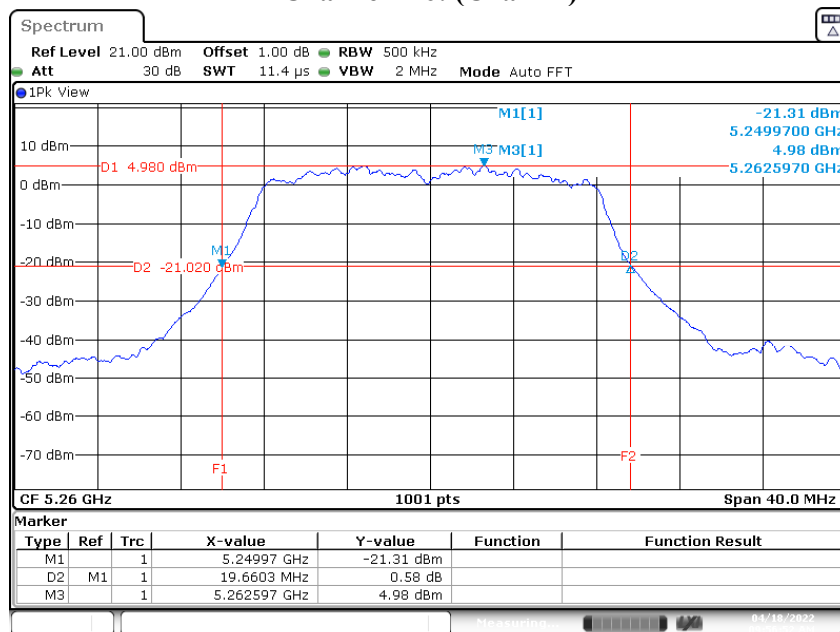
Product : 11ax Cloud Managed AP
 Test Item : Maximum conducted output power
 Test Mode : Mode 1: Transmit (802.11a-CDD)
 Test Date : 2022/04/18

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit	
								(dBm)	dBm+10log(BW)
36	5180	--	18.56	18.41	18.53	18.47	24.51	30	--
44	5220	--	18.18	17.68	18.56	18.51	24.27	30	--
48	5240	--	18.14	17.82	18.57	18.46	24.28	30	--
52	5260	19.38	11.83	11.25	12.03	11.47	17.68	24	23.87
60	5300	19.54	12.03	11.81	11.88	11.37	17.80	24	23.91
64	5320	19.50	12.06	12.41	12.53	12.26	18.34	24	23.90
100	5500	19.46	13.22	12.74	12.92	12.21	18.81	24	23.89
116	5580	19.66	12.42	11.83	11.87	12.46	18.18	24	23.94
140	5700	19.50	12.43	12.45	12.39	13.01	18.60	24	23.90
149	5745	--	19.25	19.05	18.55	18.70	24.92	30	--
157	5785	--	18.52	17.98	18.21	18.70	24.38	30	--
165	5825	--	19.05	17.80	18.53	18.92	24.62	30	--

Note:

- Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW)+ Chain C(mW)+ Chain D(mW))
- 26dB Bandwidth is the bandwidth of chain A or B or C or D whichever is less bandwidth, output power limitation is more stringent.

26dB Occupied Bandwidth:**Channel 116: (Chain B)**

Date: 18.APR.2022 09:56:53

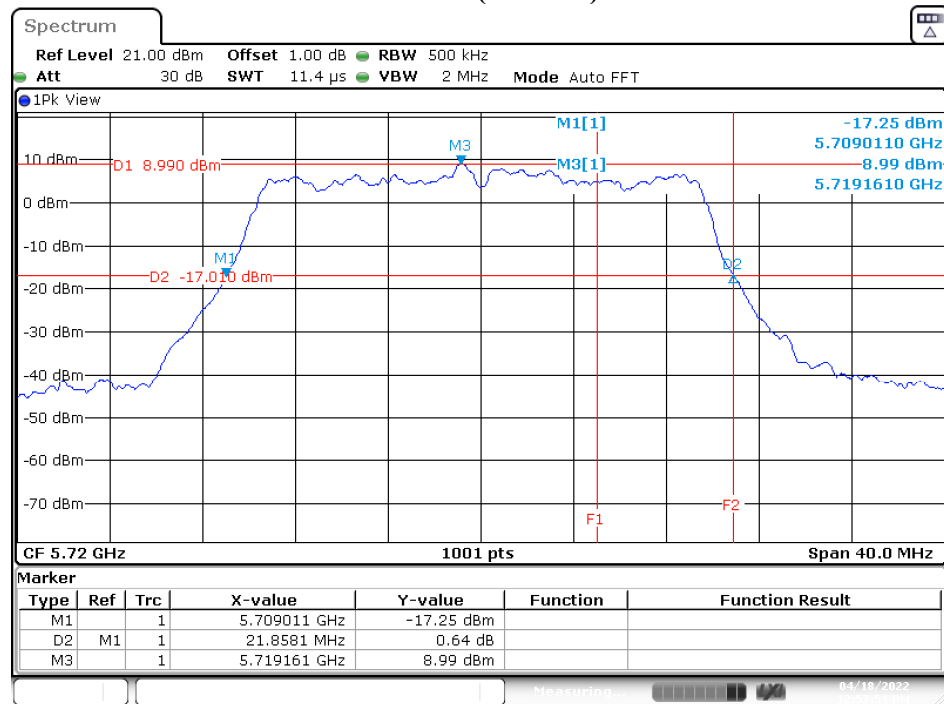
Product : 11ax Cloud Managed AP
 Test Item : Maximum conducted output power
 Test Mode : Mode 2: Transmit (802.11ax-20BW-CDD)
 Test Date : 2022/04/18

Maximum conducted output power Measurement:

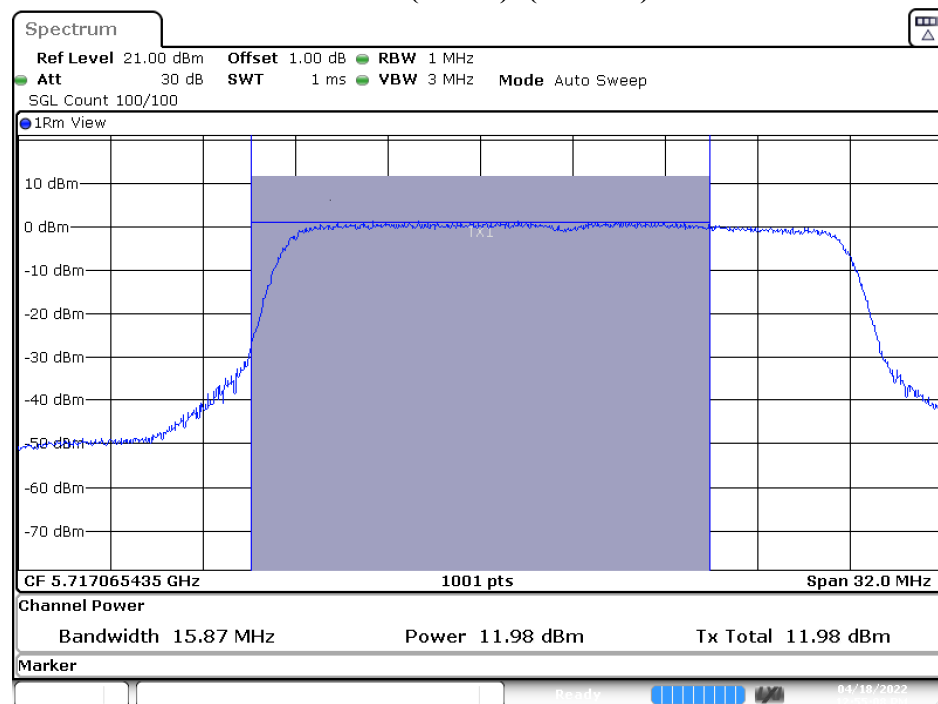
Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Duty factor (dBm)	Output Power Limit	
									(dBm)	dBm+10log(BW)
36	5180	--	18.85	18.96	18.45	19.14	24.88	--	30.00	--
44	5220	--	18.49	17.74	18.61	18.66	24.41	--	30.00	--
48	5240	--	18.35	17.96	18.71	18.52	24.41	--	30.00	--
52	5260	21.22	11.84	11.17	12.02	11.88	17.76	--	24.00	24.27
60	5300	21.34	12.38	12.26	12.24	12.41	18.34	--	24.00	24.29
64	5320	21.14	12.64	12.81	13.21	13.15	18.98	--	24.00	24.25
100	5500	20.98	13.51	13.16	13.45	13.41	19.41	--	24.00	24.22
116	5580	21.06	13.16	12.55	12.38	12.97	18.80	--	24.00	24.23
140	5700	21.06	13.13	12.80	13.01	13.66	19.18	--	24.00	24.23
144(U-NII-2C)	5720	15.67	11.98	11.64	11.64	12.42	18.25	0.30	24.00	22.95
144(U-NII-3)	5720	--	6.04	5.88	4.94	5.68	11.97	0.30	30.00	--
149	5745	--	19.66	19.44	19.05	19.38	25.41	--	30.00	--
157	5785	--	18.81	17.82	18.61	18.47	24.46	--	30.00	--
165	5825	--	19.05	18.28	18.57	19.07	24.78	--	30.00	--

Note:

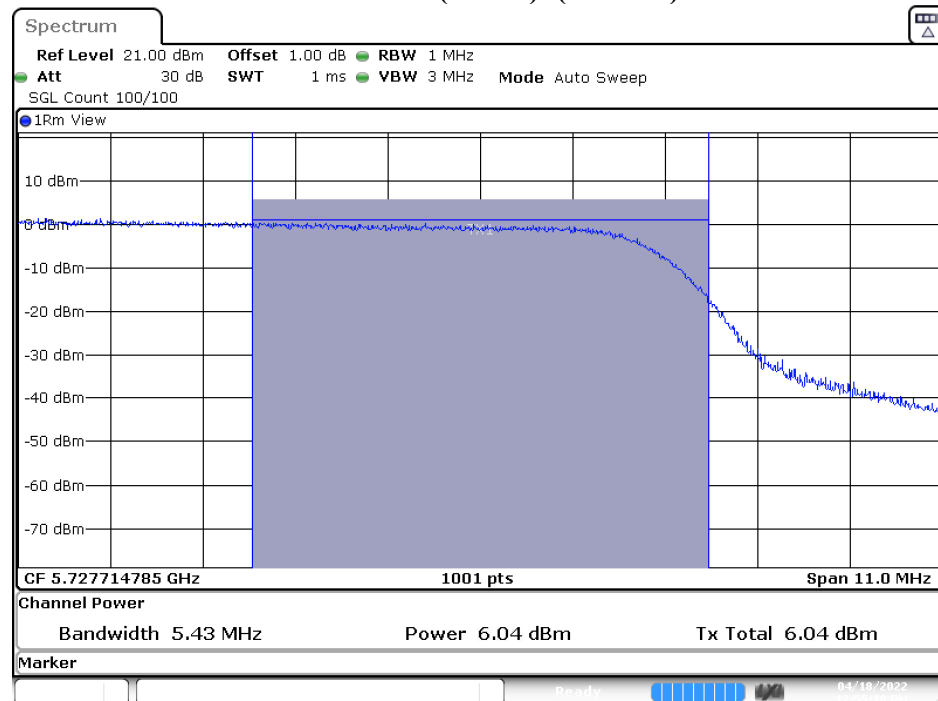
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW)+ Chain C(mW)+ Chain D(mW))
2. 26dB Bandwidth is the bandwidth of chain A or B or C or D whichever is less bandwidth, output power limitation is more stringent.

26dB Occupied Bandwidth:**Channel 144: (Chain B)**

Date: 18.APR.2022 12:57:51

Maximum conducted output power:**Channel 144(Band3): (Chain A)**

Date: 18.APR.2022 12:55:08

Channel 144(Band4): (Chain A)

Date: 18.APR.2022 12:55:10

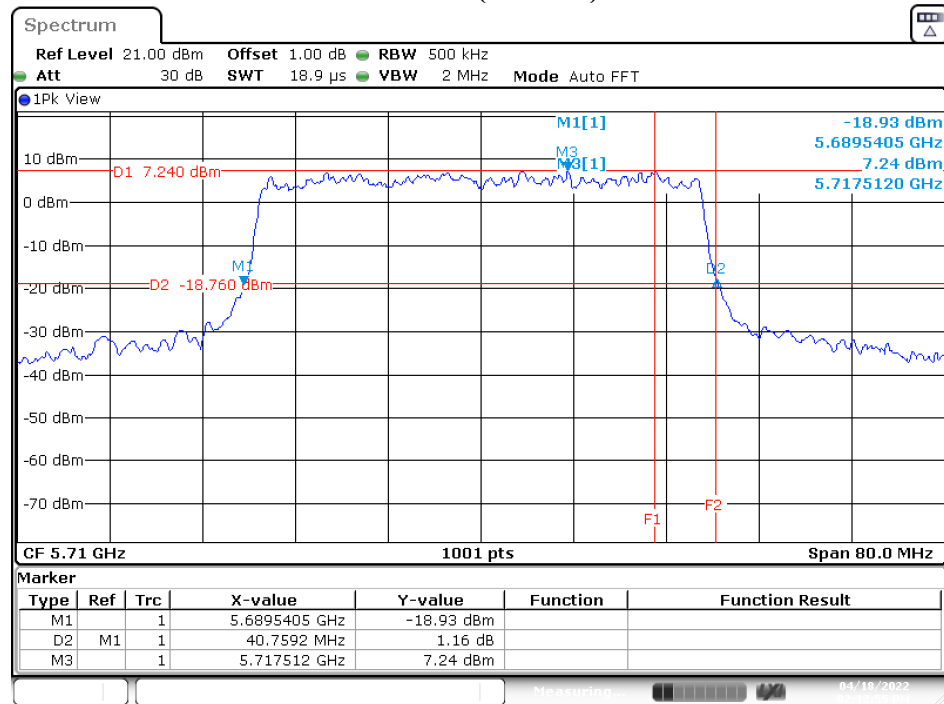
Product : 11ax Cloud Managed AP
 Test Item : Maximum conducted output power
 Test Mode : Mode 3: Transmit (802.11ax-40BW-CDD)
 Test Date : 2022/04/18

Maximum conducted output power Measurement:

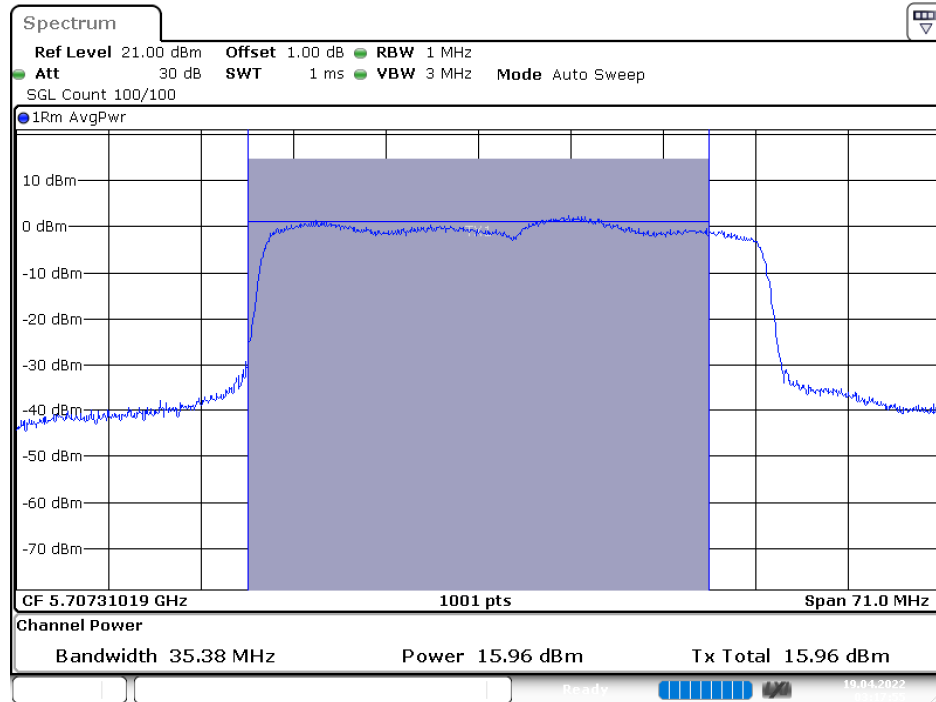
Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Duty factor (dBm)	Output Power Limit	
									(dBm)	dBm+10log(BW)
38	5190	--	21.20	21.36	21.24	21.94	27.47	--	30.00	--
46	5230	--	21.05	20.55	21.59	21.25	27.15	--	30.00	--
54	5270	40.52	14.53	14.11	14.67	14.43	20.46	--	24.00	27.08
62	5310	40.60	14.91	15.15	14.91	15.15	21.05	--	24.00	27.09
102	5510	40.68	16.40	16.02	15.79	15.81	22.03	--	24.00	27.09
110	5550	40.52	15.70	15.84	15.25	15.51	21.60	--	24.00	27.08
134	5670	40.20	15.39	15.35	15.57	16.12	21.64	--	24.00	27.04
142(U-NII-2C)	5710	35.30	15.17	15.05	14.60	15.96	21.49	0.25	24.00	26.48
142(U-NII-3)	5710	4.98	6.53	6.63	6.58	6.33	12.79	0.25	30.00	--
151	5755	--	21.61	21.56	20.95	21.61	27.46	--	30.00	--
159	5795	--	20.77	20.56	20.02	20.65	26.53	--	30.00	--

Note:

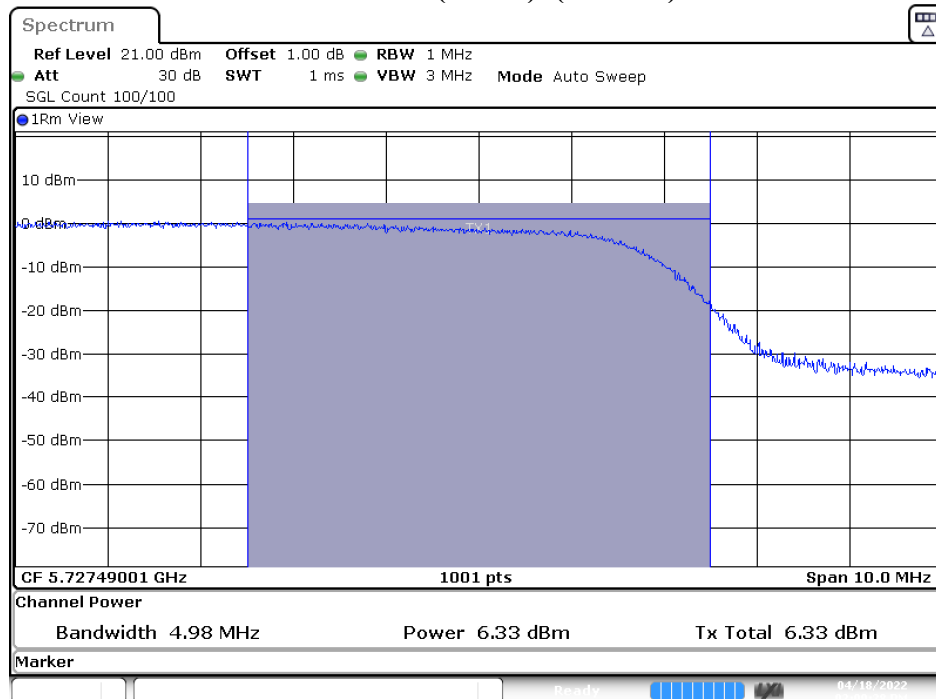
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW)+ Chain C(mW)+ Chain D(mW))
2. 26dB Bandwidth is the bandwidth of chain A or B or C or D whichever is less bandwidth, output power limitation is more stringent.

26dB Occupied Bandwidth:**Channel 142: (Chain A)**

Date: 18.APR.2022 14:12:56

Maximum conducted output power:**Channel 142(Band3): (Chain A)**

Date: 19.APR.2022 03:17:54

Channel 142(Band4): (Chain A)

Date: 18.APR.2022 14:09:29

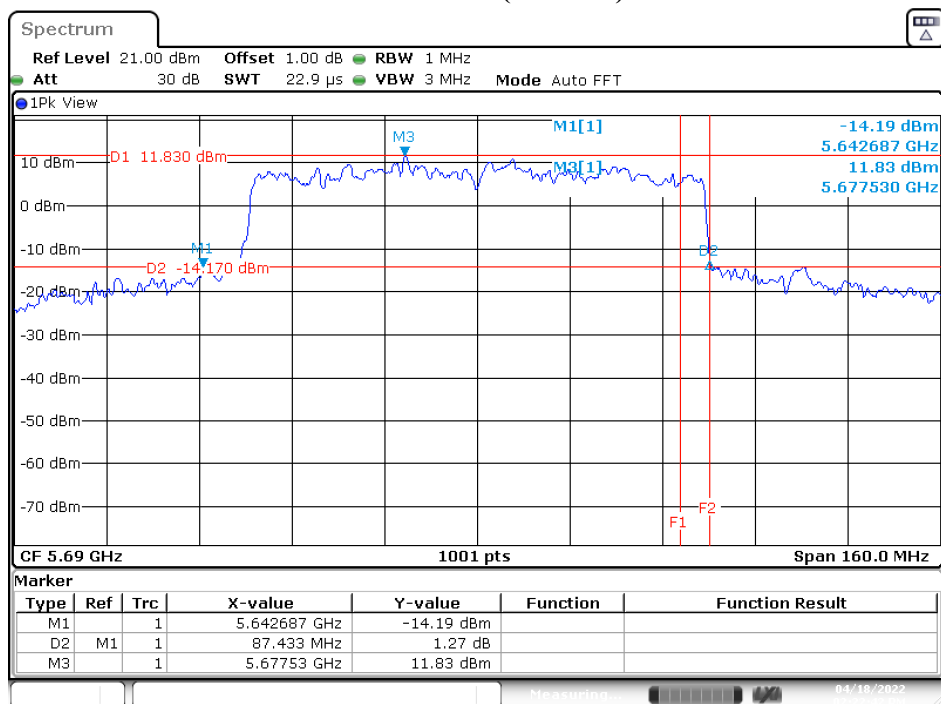
Product : 11ax Cloud Managed AP
 Test Item : Maximum conducted output power
 Test Mode : Mode 4: Transmit (802.11ax-80BW-CDD)
 Test Date : 2022/04/18

Maximum conducted output power Measurement

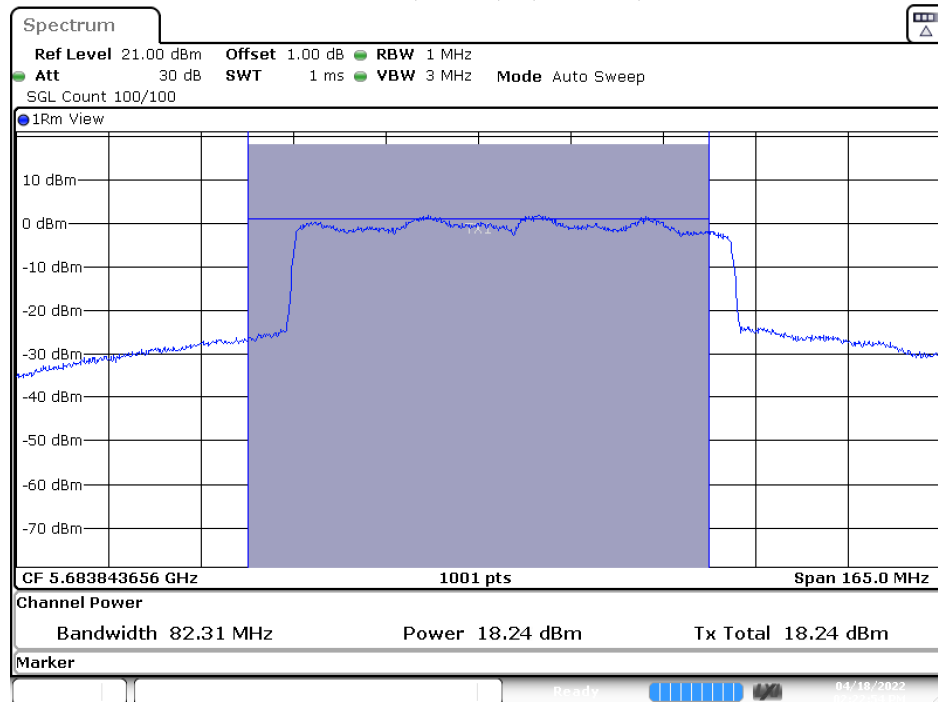
Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Duty factor (dBm)	Output Power Limit		Result
									(dBm)	$\text{dBm} + 10\log(\text{BW})$	
42	5210	--	20.44	20.19	21.07	20.93	26.69	--	30.00	--	Pass
58	5290	81.04	17.76	17.75	17.51	17.81	23.73	--	24.00	30.09	Pass
106	5530	83.28	17.88	17.55	17.81	17.60	23.73	--	24.00	30.21	Pass
122	5610	81.20	17.82	17.33	17.27	17.90	23.61	--	24.00	30.10	Pass
138 (U-NII-2C)	5690	75.60	17.25	17.41	17.46	18.24	23.92	0.30	24.00	29.79	Pass
138 (U-NII-3)	5690	--	3.86	3.76	3.94	3.46	10.07	0.30	30.00	--	Pass
155	5775	--	20.96	21.03	20.41	21.15	26.92	--	30.00	--	Pass

Note:

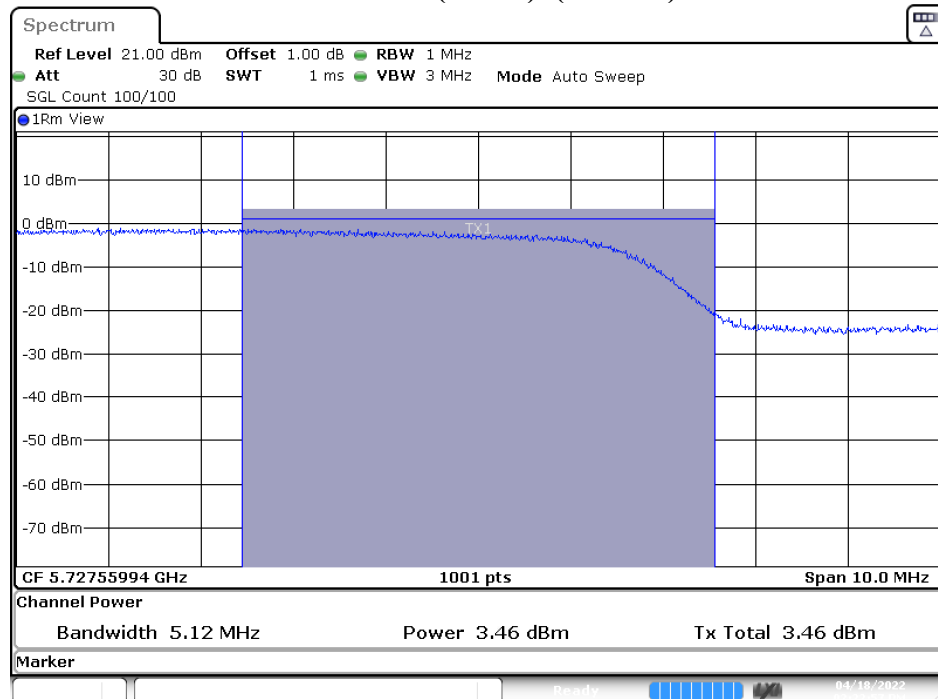
1. Output Power Value (dBm) = $10 \cdot \text{LOG} (\text{Chain A(mW)} + \text{Chain B(mW)} + \text{Chain C(mW)} + \text{Chain D(mW)})$
2. 26dB Bandwidth is the bandwidth of chain A or B or C or D whichever is less bandwidth, output power limitation is more stringent.

26dB Occupied Bandwidth:**Channel 138: (Chain C)**

Date: 18.APR.2022 14:22:43

Maximum conducted output power:**Channel 138(Band3): (Chain A)**

Date: 18.APR.2022 14:22:55

Channel 138(Band3): (Chain A)

Date: 18.APR.2022 14:22:57

Product : 11ax Cloud Managed AP
 Test Item : Maximum conducted output power
 Test Mode : Mode 5: Transmit (802.11ax-20BW-Beamforming)
 Test Date : 2022/04/18

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Duty factor (dBm)	Output Power Limit	
									(dBm)	dBm+10log(BW)
36	5180	--	12.83	12.94	12.43	13.12	18.86	--	25.11	--
44	5220	--	12.47	11.72	12.59	12.64	18.39	--	25.11	--
48	5240	--	12.33	11.94	12.69	12.50	18.39	--	25.11	--
52	5260	21.22	5.82	5.15	6.00	5.86	11.74	--	19.11	24.27
60	5300	21.34	6.36	6.24	6.22	6.39	12.32	--	19.11	24.29
64	5320	21.14	6.62	6.79	7.19	7.13	12.96	--	19.11	24.25
100	5500	20.98	7.49	7.14	7.43	7.39	13.39	--	19.25	24.22
116	5580	21.06	7.14	6.53	6.36	6.95	12.78	--	19.25	24.23
140	5700	21.06	7.11	6.78	6.99	7.64	13.16	--	19.25	24.23
144(U-NII-2C)	5720	15.67	5.96	5.62	5.62	6.40	12.23	0.30	19.25	22.95
144(U-NII-3)	5720	--	0.02	-0.14	-1.08	-0.34	5.95	0.30	24.89	--
149	5745	--	13.64	13.42	13.03	13.36	19.39		24.89	--
157	5785	--	12.79	11.80	12.59	12.45	18.44		24.89	--
165	5825	--	13.03	12.26	12.55	13.05	18.76		24.89	--

Note:

1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW)+ Chain C(mW)+ Chain D(mW))
2. 26dB Bandwidth is the bandwidth of chain A or B or C or D whichever is less bandwidth, output power limitation is more stringent.

Product : 11ax Cloud Managed AP
 Test Item : Maximum conducted output power
 Test Mode : Mode 6: Transmit (802.11ax-40BW-Beamforming)
 Test Date : 2022/04/18

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Duty factor (dBm)	Output Power Limit	
									(dBm)	dBm+10log(BW)
38	5190	--	15.18	15.34	15.22	15.92	21.45	--	25.11	--
46	5230	--	15.03	14.53	15.57	15.23	21.13	--	25.11	--
54	5270	40.52	8.51	8.09	8.65	8.41	14.44	--	19.11	27.08
62	5310	40.60	8.89	9.13	8.89	9.13	15.03	--	19.11	27.09
102	5510	40.68	10.38	10.00	9.77	9.79	16.01	--	19.25	27.09
110	5550	40.52	9.68	9.82	9.23	9.49	15.58	--	19.25	27.08
134	5670	40.20	9.37	9.33	9.55	10.10	15.62	--	19.25	27.04
142(U-NII-2C)	5710	35.30	9.15	9.03	8.58	9.94	15.47	0.25	19.25	26.48
142(U-NII-3)	5710	4.98	0.51	0.61	0.56	0.31	6.77	0.25	24.89	--
151	5755	--	15.59	15.54	14.93	15.59	21.44	--	24.89	--
159	5795	--	14.75	14.54	14.00	14.63	20.51	--	24.89	--

Note:

1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW)+ Chain C(mW)+ Chain D(mW))
2. 26dB Bandwidth is the bandwidth of chain A or B or C or D whichever is less bandwidth, output power limitation is more stringent.

Product : 11ax Cloud Managed AP
 Test Item : Maximum conducted output power
 Test Mode : Mode 7: Transmit (802.11ax-80BW-Beamforming)
 Test Date : 2022/04/18

Maximum conducted output power Measurement

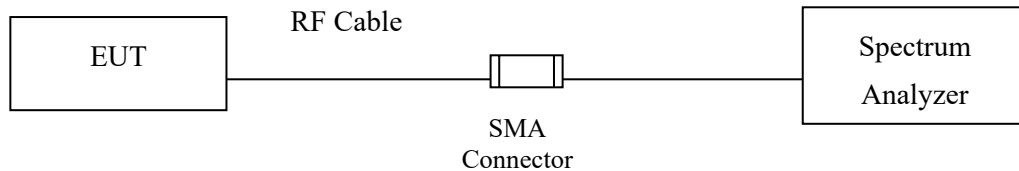
Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Duty factor (dBm)	Output Power Limit		Result
									(dBm)	dBm+10log(BW)	
42	5210	--	14.42	14.17	15.05	14.91	20.67	--	25.11	--	Pass
58	5290	81.04	11.74	11.73	11.49	11.79	17.71	--	19.11	30.09	Pass
106	5530	83.28	11.86	11.53	11.79	11.58	17.71	--	19.25	30.21	Pass
122	5610	81.20	11.80	11.31	11.25	11.88	17.59	--	19.25	30.10	Pass
138 (U-NII-2C)	5690	75.60	11.23	11.39	11.44	12.22	17.90	0.30	19.25	29.79	Pass
138 (U-NII-3)	5690	--	-2.16	-2.26	-2.08	-2.56	4.05	0.30	24.89	--	Pass
155	5775	--	14.94	15.01	14.39	15.13	20.90	--	24.89	--	Pass

Note:

- Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW)+ Chain C(mW)+ Chain D(mW))
- 26dB Bandwidth is the bandwidth of chain A or B or C or D whichever is less bandwidth, output power limitation is more stringent.

4. Peak Power Spectral Density

4.1. Test Setup



4.2. Limits

For the band 5.15-5.25 GHz,

- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, 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, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, 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, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points 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. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.+

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point UNII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

The maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5150MHz-5250MHz: Directional gain = 10.25 dBi, Limit= 12.75dBm

5250MHz-5350MHz: Directional gain = 10.25 dBi, Limit= 6.75dBm

5470MHz-5725MHz: Directional gain = 9.85 dBi, Limit= 7.15dBm

5725MHz-5850MHz: Directional gain = 10.26 dBi, Limit= 25.74dBm

Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$ dBi

4.3. Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

The Peak Power Spectral Density using KDB 789033 section F) procedure, Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer.

SA-1 method is selected to run the test.

4.4. Test Result of Peak Power Spectral Density

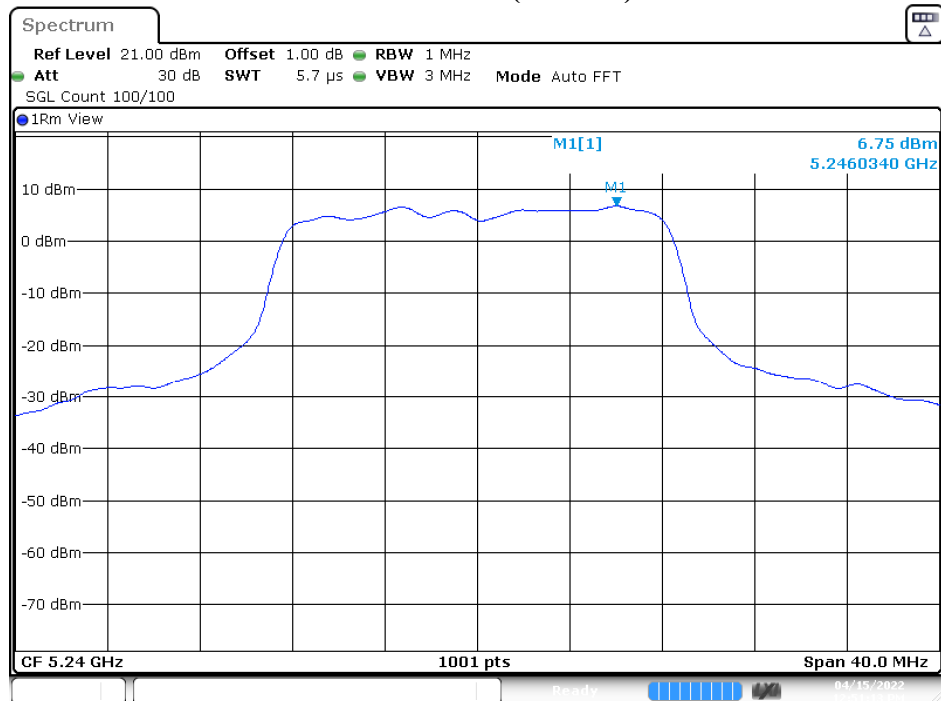
Product : 11ax Cloud Managed AP
 Test Item : Peak Power Spectral Density
 Test Mode : Mode 1: Transmit (802.11a-CDD)

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Duty factor (dB)	Total PSD (dBm)	Required Limit (dBm)	Result
36	5180	A	6.03	0.43	12.66	12.75	Pass
		B	6.56				
		C	6.10				
		D	6.12				
44	5220	A	6.14	0.43	12.62	12.75	Pass
		B	5.11				
		C	6.65				
		D	6.58				
48	5240	A	6.75	0.43	12.69	12.75	Pass
		B	5.39				
		C	6.43				
		D	6.27				
52	5260	A	0.34	0.43	6.71	6.75	Pass
		B	-0.33				
		C	0.30				
		D	0.64				
60	5300	A	0.32	0.43	6.61	6.75	Pass
		B	-0.16				
		C	0.22				
		D	0.24				
64	5320	A	-0.17	0.43	6.64	6.75	Pass
		B	-0.39				
		C	0.76				
		D	0.43				
100	5500	A	0.72	0.43	7.10	7.15	Pass
		B	0.65				
		C	0.59				
		D	0.62				
116	5580	A	0.71	0.43	6.98	7.15	Pass
		B	0.20				
		C	0.51				
		D	0.68				
140	5700	A	0.61	0.43	7.11	7.15	Pass
		B	0.19				
		C	0.75				
		D	1.03				

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Duty factor (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
149	5745	A	3.87	0.43	10.36	25.74	Pass
		B	3.94				
		C	3.81				
		D	4.00				
157	5785	A	4.25	0.43	10.46	25.74	Pass
		B	3.80				
		C	3.21				
		D	4.65				
165	5825	A	3.62	0.43	10.11	25.74	Pass
		B	2.58				
		C	3.50				
		D	4.68				

Note: Total PPSD = 10*log(Chain A (mW) + Chain B (mW) + Chain C (mW) + Chain D (mW)) + Duty factor

Channel 48: (Chain A)



Date: 15.APR.2022 12:51:13

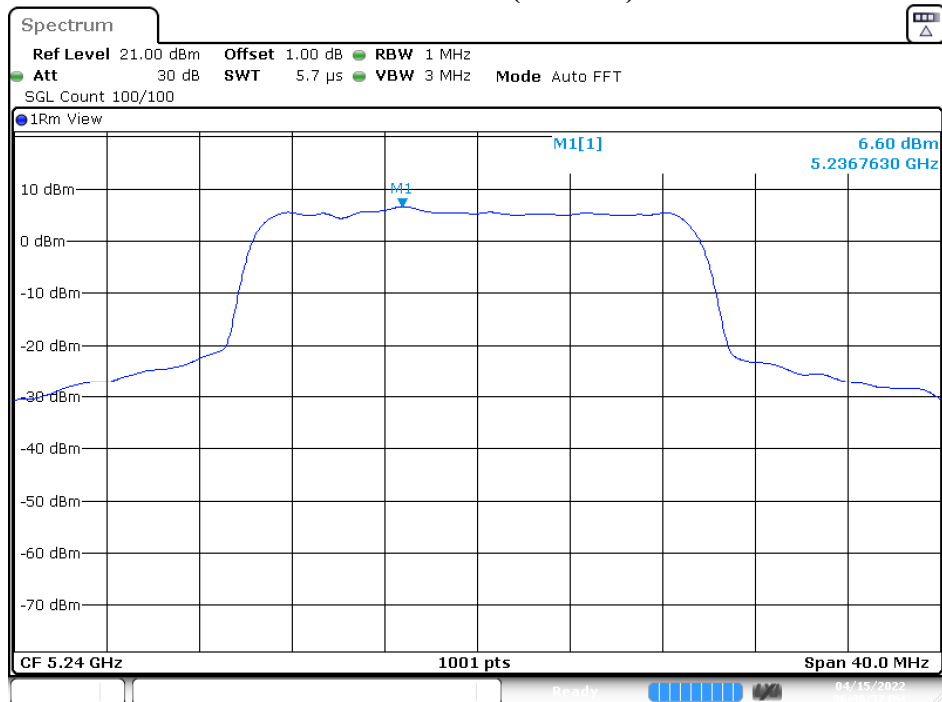
Product : 11ax Cloud Managed AP
 Test Item : Peak Power Spectral Density
 Test Mode : Mode 2: Transmit (802.11ax-20BW-CDD)

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Duty factor (dB)	Total PSD (dBm)	Required Limit (dBm)	Result
36	5180	A	6.50	0.30	12.70	12.75	Pass
		B	6.12				
		C	6.43				
		D	6.46				
44	5220	A	6.34	0.30	12.67	12.75	Pass
		B	6.08				
		C	6.41				
		D	6.57				
48	5240	A	6.16	0.30	12.60	12.75	Pass
		B	6.16				
		C	6.21				
		D	6.60				
52	5260	A	0.61	0.30	6.56	6.75	Pass
		B	-0.37				
		C	0.39				
		D	0.27				
60	5300	A	0.71	0.30	6.72	6.75	Pass
		B	0.07				
		C	0.29				
		D	0.52				
64	5320	A	0.48	0.30	6.71	6.75	Pass
		B	0.43				
		C	0.40				
		D	0.27				
100	5500	A	1.19	0.30	7.12	7.15	Pass
		B	0.55				
		C	1.06				
		D	0.37				
116	5580	A	0.68	0.30	7.06	7.15	Pass
		B	0.67				
		C	0.58				
		D	1.01				
140	5700	A	0.69	0.30	7.04	7.15	Pass
		B	1.06				
		C	0.44				
		D	0.66				
144 (U-NII-2C)	5720	A	0.50	0.30	7.04	7.15	Pass
		B	0.96				
		C	1.05				
		D	0.35				

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Duty factor (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
144 (U-NII-3)	5720	A	-2.73	0.30	3.54	25.74	Pass
		B	-2.69				
		C	-2.70				
		D	-2.98				
149	5745	A	4.12	0.30	10.54	25.74	Pass
		B	4.09				
		C	3.76				
		D	4.84				
157	5785	A	3.52	0.30	9.79	25.74	Pass
		B	2.91				
		C	3.11				
		D	4.24				
165	5825	A	4.18	0.30	9.92	25.74	Pass
		B	3.33				
		C	2.93				
		D	3.86				

Note: Total PPSD = 10*log(Chain A (mW) + Chain B (mW) + Chain C (mW) + Chain D (mW)) + Duty factor

Channel 48: (Chain D)



Date: 15.APR.2022 18:36:37

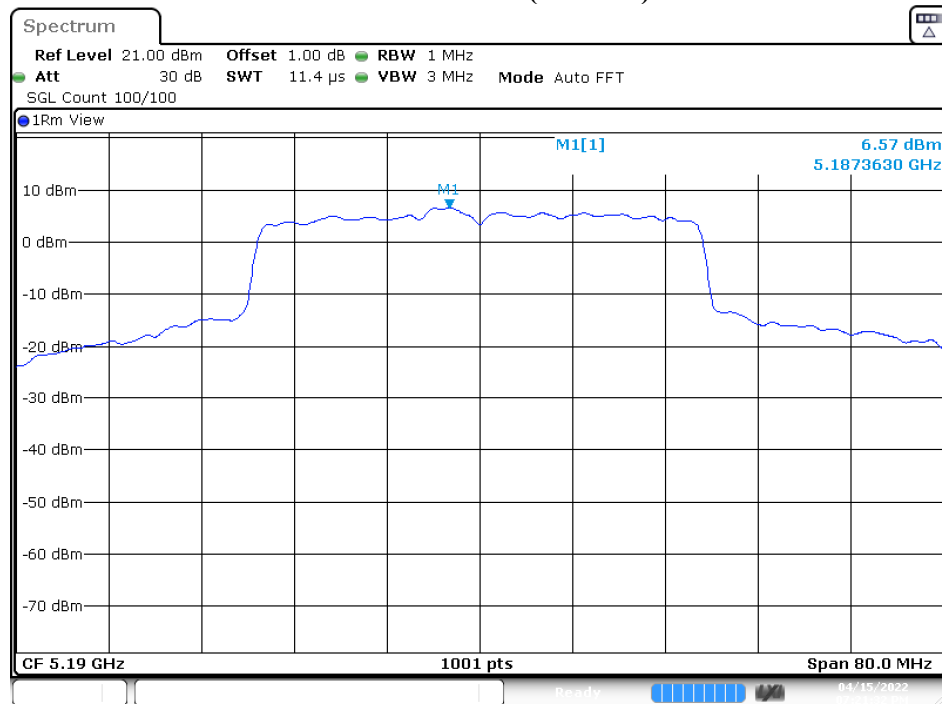
Product : 11ax Cloud Managed AP
 Test Item : Peak Power Spectral Density
 Test Mode : Mode 3: Transmit (802.11ax-40BW-CDD)

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Duty factor (dB)	Total PSD (dBm)	Required Limit (dBm)	Result
38	5190	A	6.57	0.25	12.66	12.75	Pass
		B	6.44				
		C	6.13				
		D	6.42				
46	5230	A	6.18	0.25	12.32	12.75	Pass
		B	5.24				
		C	6.30				
		D	6.37				
54	5270	A	0.29	0.25	6.50	6.75	Pass
		B	-0.14				
		C	0.35				
		D	0.40				
62	5310	A	0.75	0.25	6.71	6.75	Pass
		B	0.46				
		C	0.35				
		D	0.20				
102	5510	A	0.85	0.25	7.03	7.15	Pass
		B	0.91				
		C	0.57				
		D	0.70				
110	5550	A	0.80	0.25	7.08	7.15	Pass
		B	1.08				
		C	0.66				
		D	0.69				
134	5670	A	0.91	0.25	7.06	7.15	Pass
		B	0.58				
		C	0.78				
		D	0.89				
142 (U-NII-2C)	5710	A	0.68	0.25	7.08	7.15	Pass
		B	1.13				
		C	0.74				
		D	0.68				

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Duty factor (dB)	Total PSD (dBm)	Required Limit (dBm)	Result
142 (U-NII-3)	5710	A	-3.35	0.25	2.84	25.74	Pass
		B	-3.25				
		C	-3.95				
		D	-3.21				
151	5755	A	3.32	0.25	9.52	25.74	Pass
		B	3.43				
		C	2.95				
		D	3.29				
159	5795	A	2.75	0.25	8.30	25.74	Pass
		B	1.90				
		C	1.37				
		D	1.97				

Note: Total PSD = 10*log(Chain A (mW) + Chain B (mW) + Chain C (mW) + Chain D (mW)) + Duty factor

Channel 38: (Chain A)



Date: 15.APR.2022 19:21:32

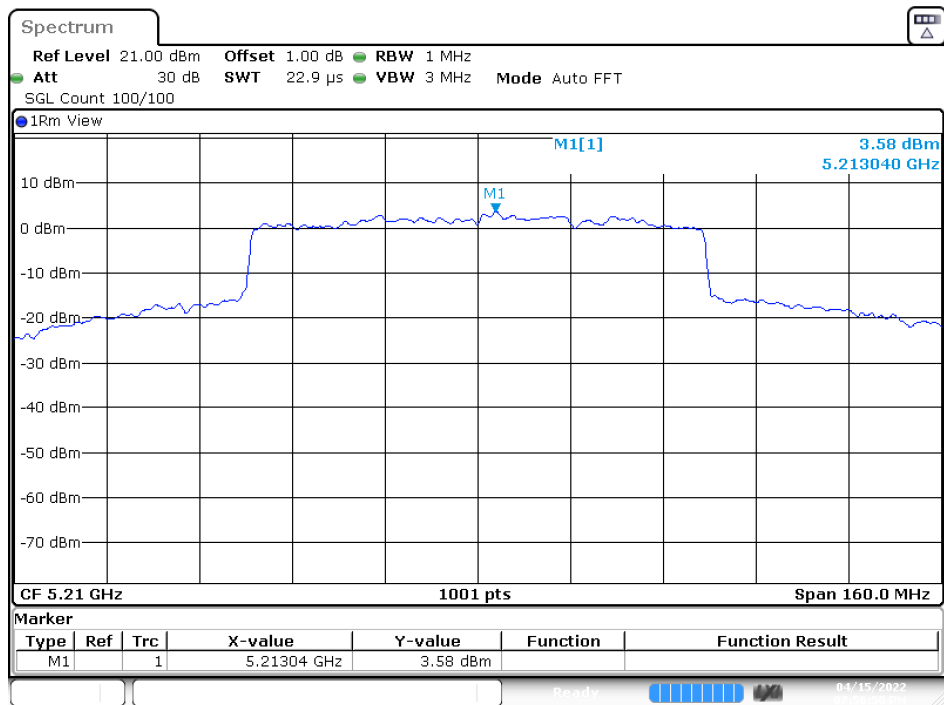
Product : 11ax Cloud Managed AP
 Test Item : Peak Power Spectral Density
 Test Mode : Mode 4: Transmit (802.11ax-80BW-CDD)

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Duty factor (dB)	Total PSD (dBm)	Required Limit (dBm)	Result
42	5210	A	2.46	0.30	9.20	12.75	Pass
		B	2.61		9.20	12.75	
		C	3.58		9.20	12.75	
		D	2.80		9.20	12.75	
58	5290	A	-0.23	0.30	6.58	6.75	Pass
		B	0.13		6.58	6.75	
		C	0.48		6.58	6.75	
		D	0.63		6.58	6.75	
106	5530	A	0.80	0.30	6.98	7.15	Pass
		B	-0.01		6.98	7.15	
		C	1.11		6.98	7.15	
		D	0.69		6.98	7.15	
122	5610	A	0.53	0.30	7.04	7.15	Pass
		B	0.51		7.04	7.15	
		C	0.66		7.04	7.15	
		D	1.18		7.04	7.15	
138 (U-NII-2C)	5690	A	0.05	0.30	6.96	7.15	Pass
		B	0.21		6.96	7.15	
		C	0.72		6.96	7.15	
		D	1.44		6.96	7.15	

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Duty factor (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
138a (U-NII-3)	5690	A	-4.42	0.30	1.63	25.74	Pass
		B	-4.96		1.63		
		C	-4.57		1.63		
		D	-4.80		1.63		
155	5775	A	0.01	0.30	6.31	25.74	Pass
		B	0.09		6.31		
		C	-0.70		6.31		
		D	0.49		6.31		

Note: Total PPSD = 10*log(Chain A (mW) + Chain B (mW) + Chain C (mW) + Chain D (mW)) + Duty factor

Channel 42: (Chain C)

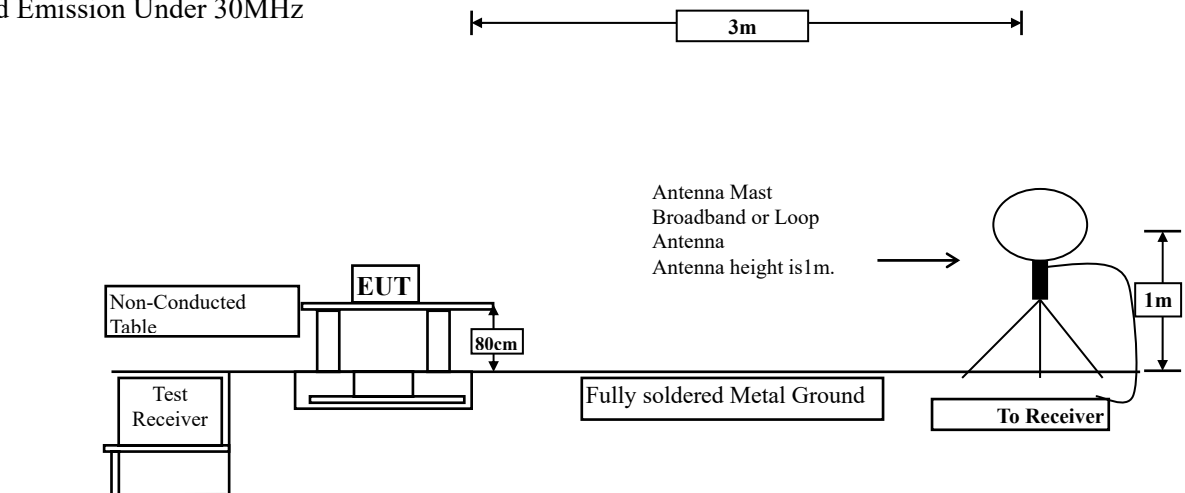


Date: 15.APR.2022 19:56:51

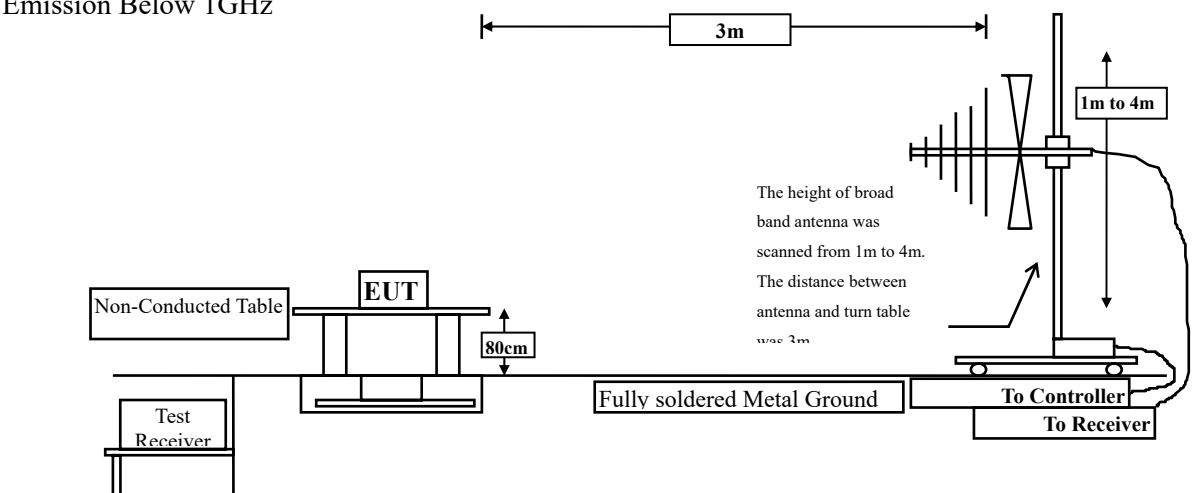
5. Radiated Emission

5.1. Test Setup

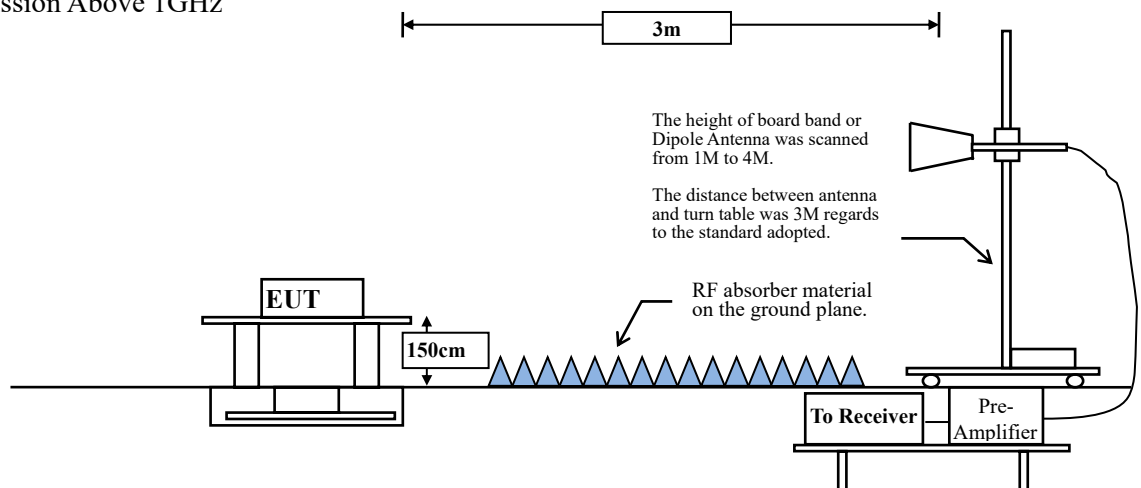
Radiated Emission Under 30MHz



Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



5.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks: E field strength (dB μ V/m) = 20 log E field strength (uV/m)

5.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to FCC KDB-789033 test procedure for compliance to FCC 47CFR 15. 407 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

RBW and VBW Parameter setting:

According to KDB 789033 section II.G.5 Procedure for Unwanted Maximum Emissions
Measurements above 1000 MHz.

RBW = 1MHz.

VBW $\geq$ 3MHz.

According to KDB 789033 section II.G.6 Procedures for Average Unwanted Emissions
Measurements above 1000 MHz.

RBW = 1MHz.

VBW = 10Hz, when duty cycle $\geq$ 98 %

VBW $\geq$ 1/T, when duty cycle < 98 %

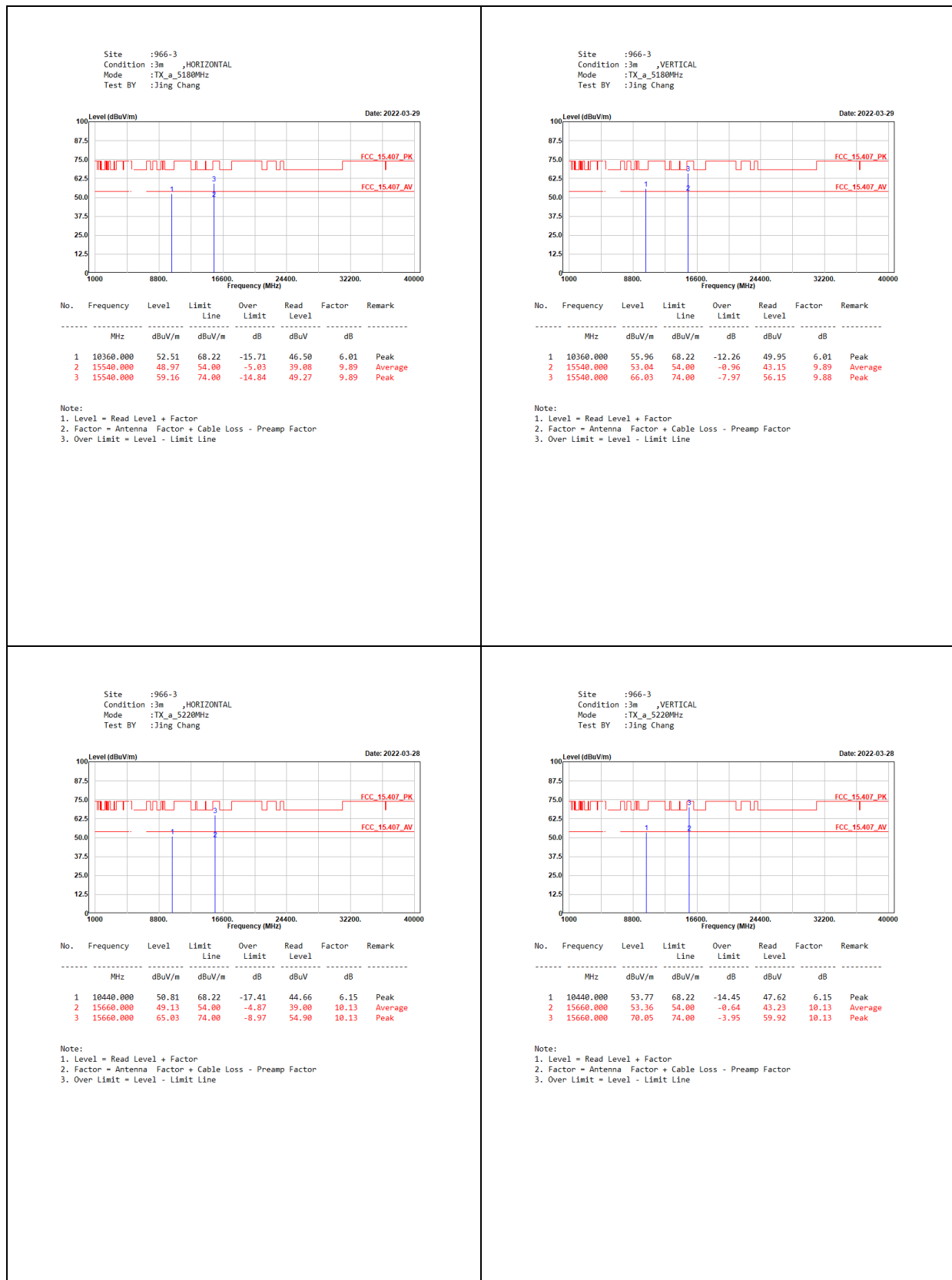
(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

CDD Mode:

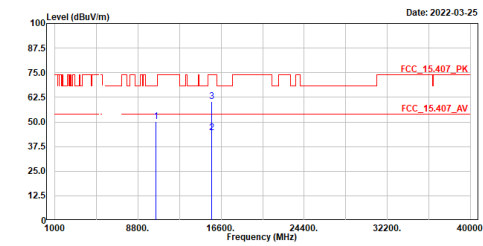
5GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11a	90.49	1.9500	513	1000
802.11ax20	93.40	5.3800	186	200
802.11ax40	94.43	5.4200	185	200
802.11ax80	93.43	5.4000	185	200

Note: Duty Cycle Refer to Section 8

5.4. Test Result of Radiated Emission



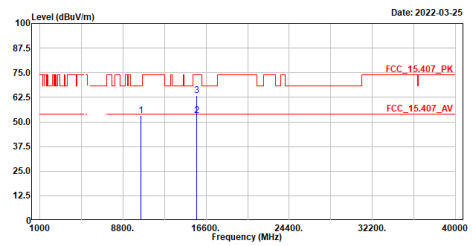
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_a_5240MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10480.000	50.07	68.22	-18.15	43.96	6.11	Peak
2	15720.000	44.64	54.00	-9.36	34.48	10.16	Average
3	15720.000	60.49	74.00	-13.51	50.33	10.16	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

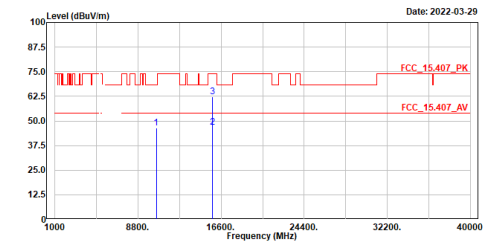
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_a_5240MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10480.000	53.31	68.22	-14.91	47.20	6.11	Peak
2	15720.000	53.32	54.00	-0.68	43.16	10.16	Average
3	15720.000	63.41	74.00	-10.59	53.25	10.16	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

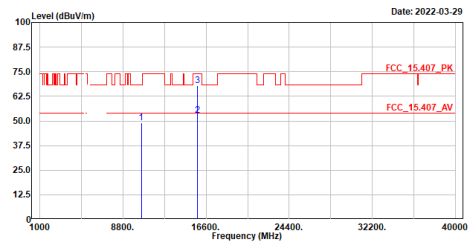
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_a_5260MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10520.000	46.53	68.22	-21.69	40.43	6.10	Peak
2	15780.000	46.68	54.00	-7.32	36.59	10.09	Average
3	15780.000	62.28	74.00	-11.72	52.20	10.08	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

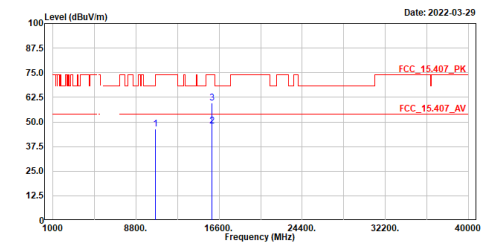
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_a_5260MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10520.000	48.89	68.22	-19.33	42.78	6.11	Peak
2	15780.000	52.96	54.00	-1.04	42.87	10.09	Average
3	15780.000	67.84	74.00	-6.16	57.75	10.09	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

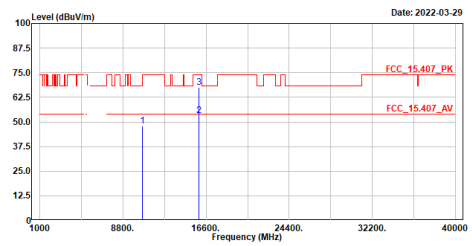
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_a_5300MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10600.000	46.47	74.00	-27.53	48.15	6.32	Peak
2	15900.000	47.91	54.00	-6.09	37.63	10.28	Average
3	15900.000	59.60	74.00	-14.40	49.33	10.27	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

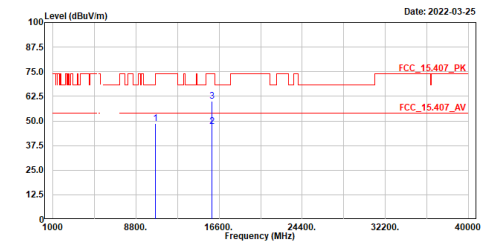
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_a_5300MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10600.000	48.10	74.00	-25.90	41.79	6.31	Peak
2	15900.000	53.20	54.00	-0.80	42.92	10.28	Average
3	15900.000	67.64	74.00	-6.36	57.36	10.28	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

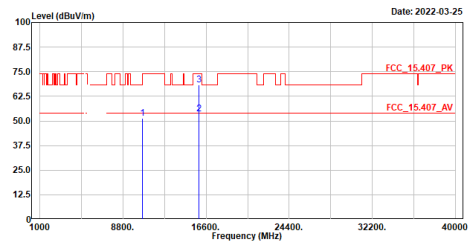
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_a_5320MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10640.000	48.63	74.00	-25.37	42.43	6.20	Peak
2	15960.000	47.22	54.00	-6.78	36.79	10.43	Average
3	15960.000	60.09	74.00	-13.91	49.66	10.43	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

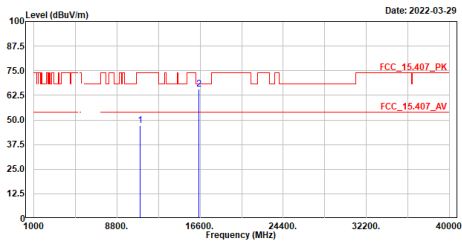
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_a_5320MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10640.000	51.19	74.00	-22.81	44.99	6.20	Peak
2	15960.000	53.59	54.00	-0.41	43.16	10.43	Average
3	15960.000	68.12	74.00	-5.88	57.69	10.43	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_a_5580MHz
Test BY :Jing Chang

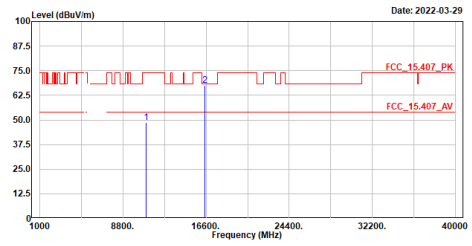


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11000.000	47.11	74.00	-26.89	48.97	6.14	Peak
2	16500.000	65.73	68.22	-2.49	53.81	11.92	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_a_5580MHz
Test BY :Jing Chang

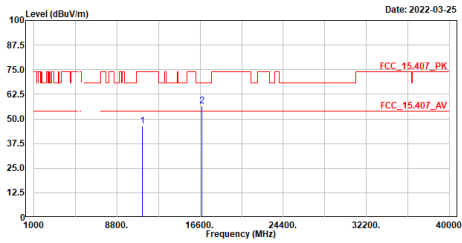


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11000.000	48.69	74.00	-25.31	42.55	6.14	Peak
2	16500.000	67.54	68.22	-0.68	55.62	11.92	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_a_5580MHz
Test BY :Jing Chang

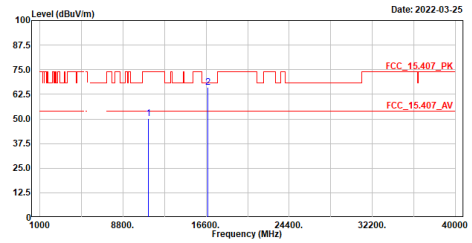


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11160.000	46.60	74.00	-27.40	48.15	6.45	Peak
2	16740.000	56.46	68.22	-11.76	43.89	12.57	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_a_5580MHz
Test BY :Jing Chang

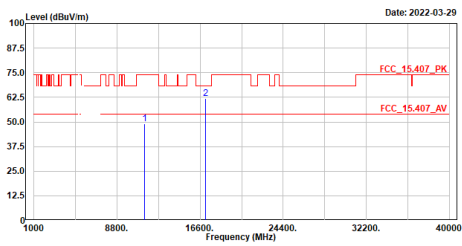


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11160.000	50.14	74.00	-23.86	43.69	6.45	Peak
2	16740.000	66.22	68.22	-2.00	53.65	12.57	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

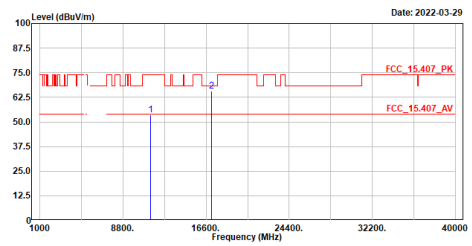
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_a_5700MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11400.000	49.00	74.00	-25.00	42.16	6.84	Peak
2	17100.000	61.96	68.22	-6.26	49.48	12.48	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

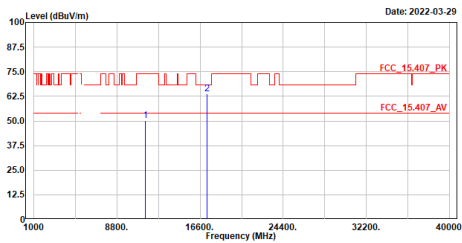
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_a_5700MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11400.000	53.49	74.00	-20.51	46.65	6.84	Peak
2	17100.000	65.68	68.22	-2.54	53.15	12.53	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

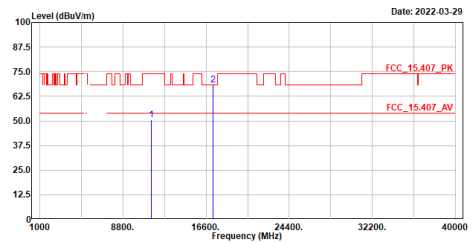
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_a_5745MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11490.000	50.23	74.00	-23.77	43.18	7.05	Peak
2	17235.000	63.76	68.22	-4.46	51.63	12.13	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

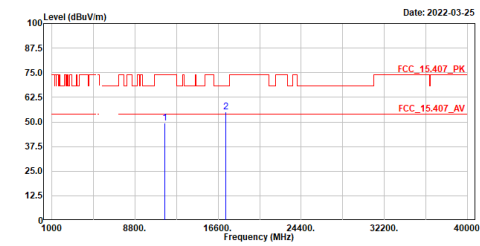
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_a_5745MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11490.000	50.70	74.00	-23.30	43.66	7.04	Peak
2	17235.000	68.20	68.22	-0.02	56.07	12.13	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_a_5785MHz
Test BY :Jing Chang

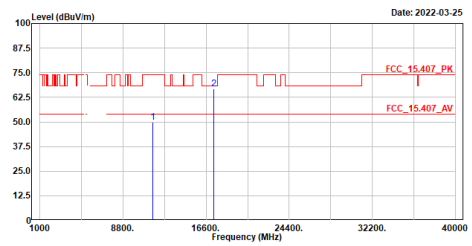


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	11570.000	49.62	74.00	-24.38	42.33	7.29	Peak
2	17355.000	55.15	68.22	-13.07	42.76	12.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_a_5785MHz
Test BY :Jing Chang

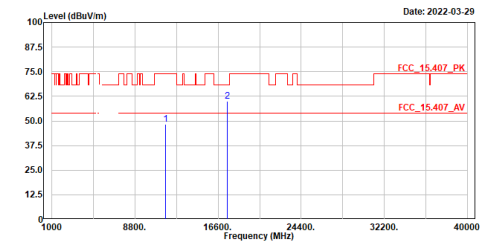


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	11570.000	49.67	74.00	-24.33	42.38	7.29	Peak
2	17355.000	66.70	68.22	-1.52	54.30	12.40	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_a_5825MHz
Test BY :Jing Chang

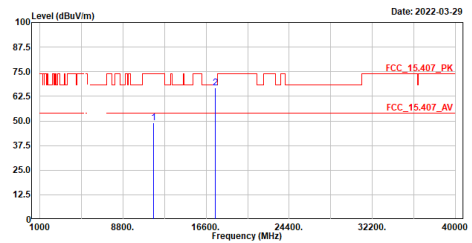


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	11650.000	48.14	74.00	-25.86	40.65	7.49	Peak
2	17475.000	59.82	68.22	-8.40	47.32	12.50	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_a_5825MHz
Test BY :Jing Chang

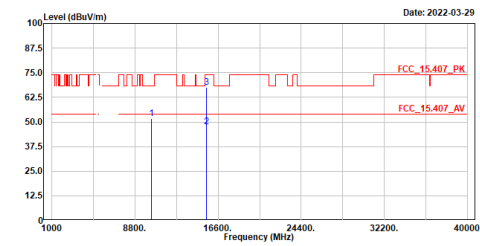


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	11650.000	49.08	74.00	-24.92	41.59	7.49	Peak
2	17475.000	66.67	68.22	-1.55	54.21	12.46	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

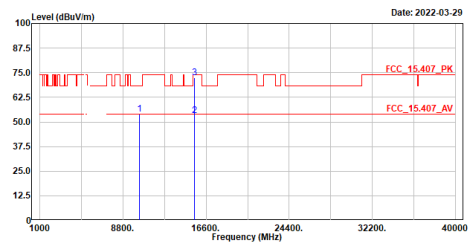
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5180MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	10360.000	51.68	68.22	-16.54	45.64	6.04	Peak
2	15540.000	47.71	54.00	-6.29	37.82	9.89	Average
3	15540.000	67.62	74.00	-6.38	57.73	9.89	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

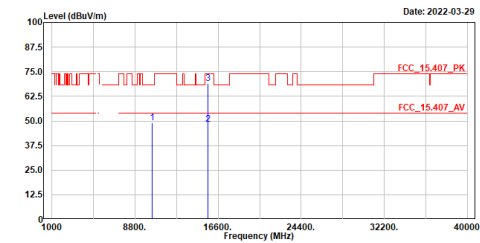
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5180MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	10360.000	53.98	68.22	-14.24	47.99	5.99	Peak
2	15540.000	53.10	54.00	-0.90	43.21	9.89	Average
3	15540.000	72.51	74.00	-1.49	62.61	9.90	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

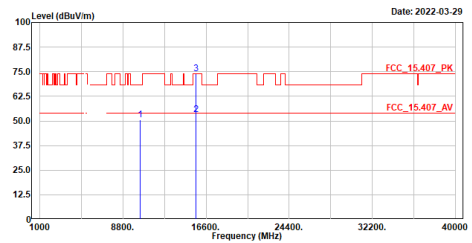
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5220MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	10440.000	49.04	68.22	-19.18	42.89	6.15	Peak
2	15660.000	48.48	54.00	-5.52	38.35	10.13	Average
3	15660.000	68.89	74.00	-5.11	58.78	10.11	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

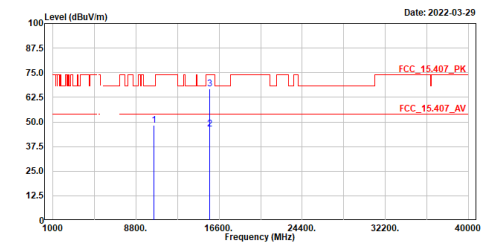
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5220MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	10440.000	50.49	68.22	-17.73	44.34	6.15	Peak
2	15660.000	53.24	54.00	-0.76	43.11	10.13	Average
3	15660.000	73.97	74.00	-0.03	63.86	10.11	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

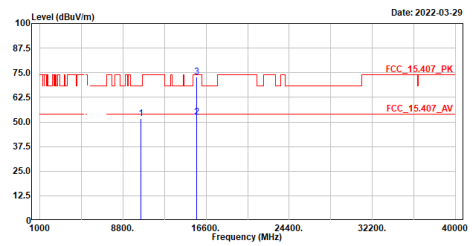
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5240MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10480.000	48.27	68.22	-19.95	42.16	6.11	Peak
2	15720.000	46.28	54.00	-7.72	36.12	10.16	Average
3	15720.000	66.61	74.00	-7.39	56.46	10.15	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

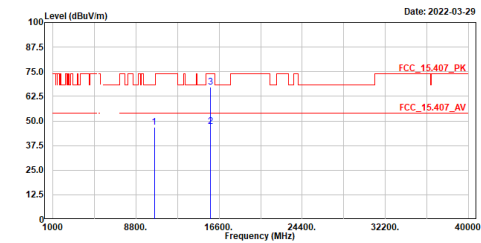
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5240MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10480.000	51.78	68.22	-16.44	45.67	6.11	Peak
2	15720.000	52.30	54.00	-1.70	42.14	10.16	Average
3	15720.000	72.92	74.00	-1.08	62.77	10.15	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

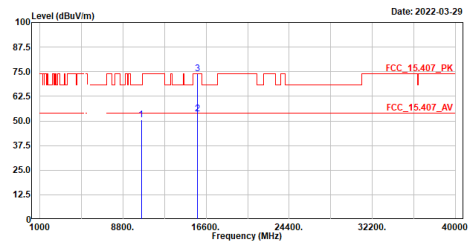
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5260MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10520.000	46.78	68.22	-21.44	40.67	6.11	Peak
2	15780.000	47.00	54.00	-7.00	36.91	10.09	Average
3	15780.000	67.26	74.00	-6.74	57.17	10.09	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

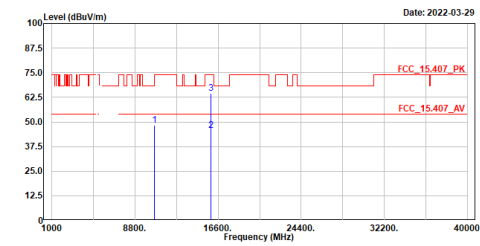
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5260MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	10520.000	50.66	68.22	-17.56	44.55	6.11	Peak
2	15780.000	53.69	54.00	-0.31	43.60	10.09	Average
3	15780.000	73.90	74.00	-0.10	63.81	10.09	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

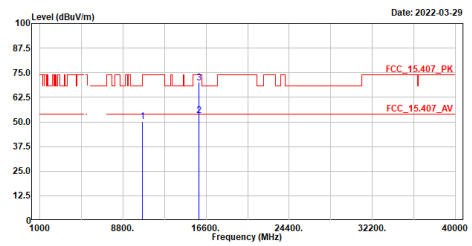
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5300MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	10600.000	48.33	74.00	-25.67	42.02	6.31	Peak
2	15900.000	45.56	54.00	-8.44	35.28	10.28	Average
3	15900.000	64.71	74.00	-9.29	54.41	10.30	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

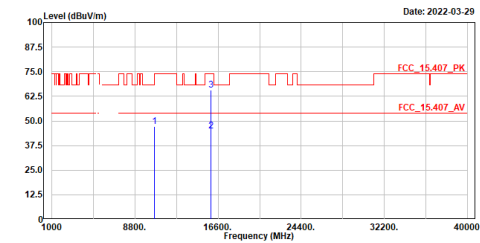
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5300MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	10600.000	50.03	74.00	-23.97	43.72	6.31	Peak
2	15900.000	53.21	54.00	-0.79	42.93	10.28	Average
3	15900.000	70.00	74.00	-4.00	59.72	10.28	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

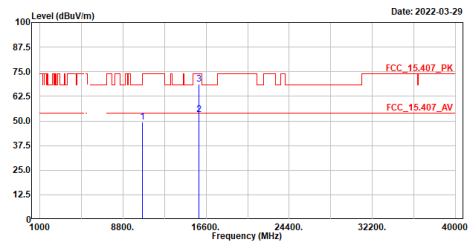
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5320MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	10640.000	47.28	74.00	-26.72	41.09	6.19	Peak
2	15960.000	45.07	54.00	-8.93	34.64	10.43	Average
3	15960.000	65.51	74.00	-8.49	55.07	10.44	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

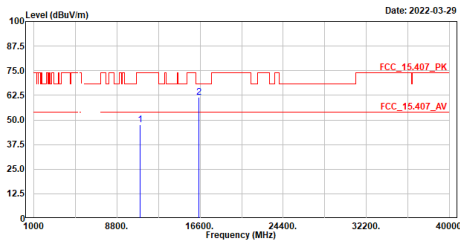
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5320MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	10640.000	49.27	74.00	-24.73	43.07	6.20	Peak
2	15960.000	53.22	54.00	-0.78	42.79	10.43	Average
3	15960.000	68.78	74.00	-5.22	58.35	10.43	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

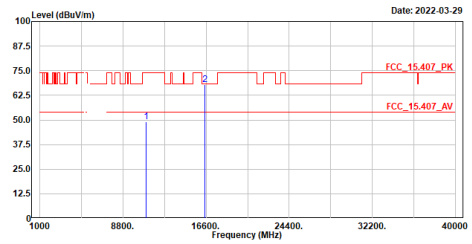
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5580MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11800.000	47.45	74.00	-26.55	41.31	6.14	Peak
2	16500.000	61.68	68.22	-6.54	49.77	11.91	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

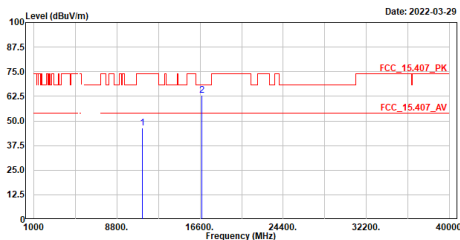
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5580MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11800.000	49.17	74.00	-24.83	43.03	6.14	Peak
2	16500.000	67.74	68.22	-0.48	55.82	11.92	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

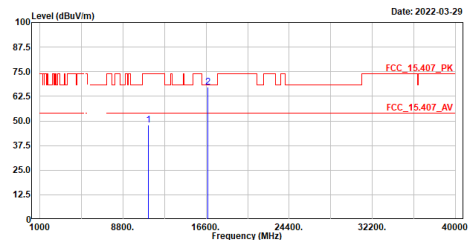
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5580MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11160.000	46.54	74.00	-27.46	40.88	6.46	Peak
2	16740.000	63.21	68.22	-5.01	50.64	12.57	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

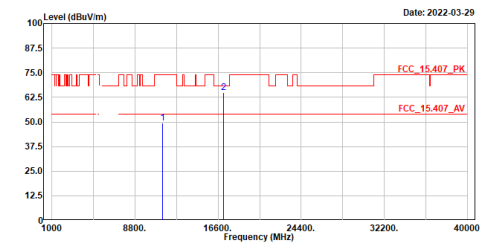
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5580MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11160.000	48.00	74.00	-26.00	41.55	6.45	Peak
2	16740.000	67.21	68.22	-1.01	54.64	12.57	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5700MHz
Test BY :Jing Chang

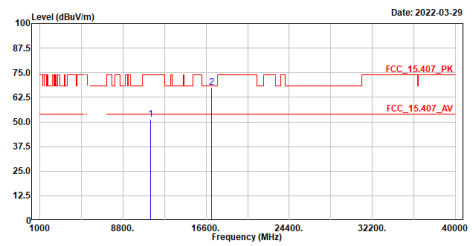


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	11400.000	49.30	74.00	-24.70	42.46	6.84	Peak
2	17100.000	64.99	68.22	-3.23	52.51	12.48	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5700MHz
Test BY :Jing Chang

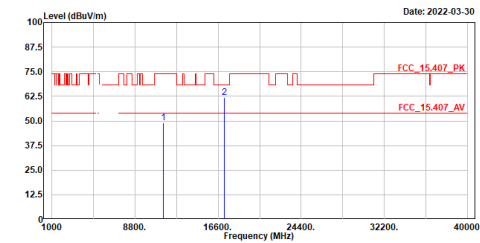


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	11400.000	51.40	74.00	-22.60	44.57	6.83	Peak
2	17100.000	67.57	68.22	-0.65	55.08	12.49	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5720MHz
Test BY :Jing Chang

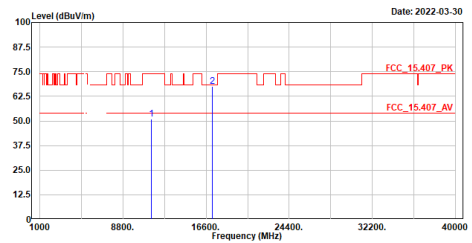


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	11440.000	49.07	74.00	-24.93	42.12	6.95	Peak
2	17160.000	61.84	68.22	-6.38	49.56	12.28	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5720MHz
Test BY :Jing Chang

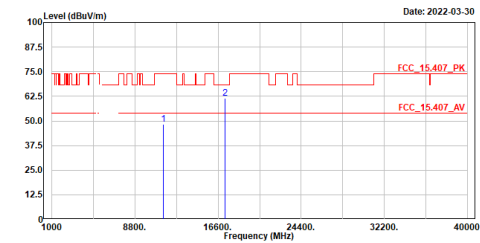


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	11440.000	50.88	74.00	-23.12	43.93	6.95	Peak
2	17160.000	67.63	68.22	-0.59	55.32	12.31	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

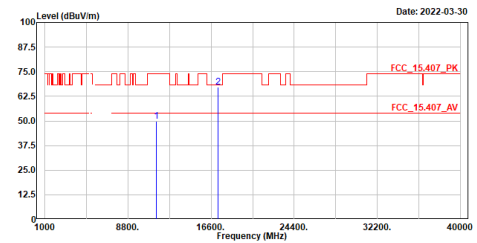
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5745MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11490.000	48.23	74.00	-25.77	41.14	7.09	Peak
2	17235.000	61.55	68.22	-6.67	49.40	12.15	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

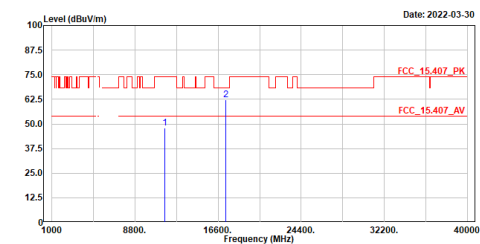
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5745MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11490.000	49.89	74.00	-24.11	42.82	7.07	Peak
2	17235.000	67.34	68.22	-0.88	55.21	12.13	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

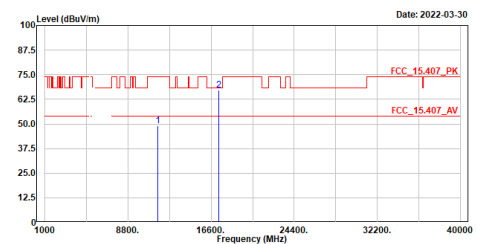
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5785MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11570.000	47.91	74.00	-26.09	40.62	7.29	Peak
2	17355.000	62.20	68.22	-6.02	49.80	12.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

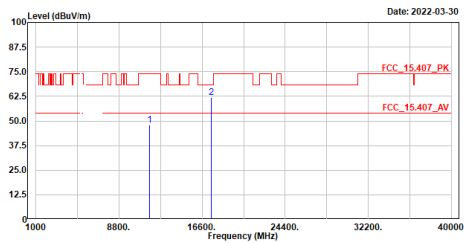
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5785MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11570.000	48.90	74.00	-25.10	41.61	7.29	Peak
2	17355.000	67.30	68.22	-0.92	54.90	12.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

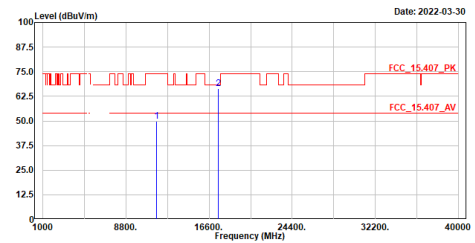
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5825MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11650.000	47.90	74.00	-26.10	48.39	7.51	Peak
2	17475.000	61.76	68.22	-6.46	49.30	12.46	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

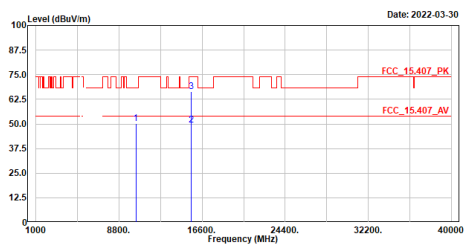
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax20_5825MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11650.000	49.94	74.00	-24.06	42.44	7.50	Peak
2	17475.000	66.58	68.22	-1.64	54.09	12.49	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

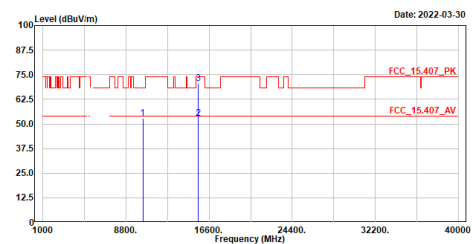
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax40_5190MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	10380.000	50.15	68.22	-18.07	44.07	6.08	Peak
2	15570.000	49.32	54.00	-4.68	39.37	9.95	Average
3	15570.000	66.43	74.00	-7.57	56.47	9.96	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

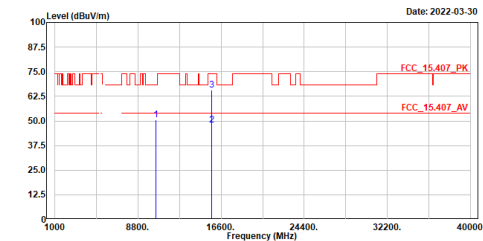
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax40_5190MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	10380.000	52.66	68.22	-15.56	46.54	6.12	Peak
2	15570.000	52.90	54.00	-1.10	42.95	9.95	Average
3	15570.000	70.47	74.00	-3.53	60.54	9.93	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

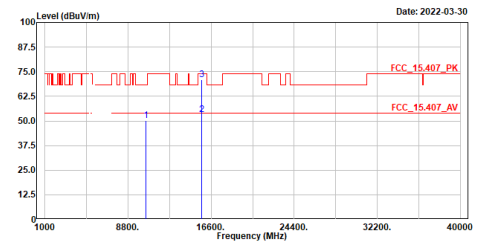
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax40_5230MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	10460.000	50.57	68.22	-17.65	44.44	6.13	Peak
2	15690.000	47.91	54.00	-6.09	37.74	10.17	Average
3	15690.000	65.48	74.00	-8.52	55.31	10.17	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

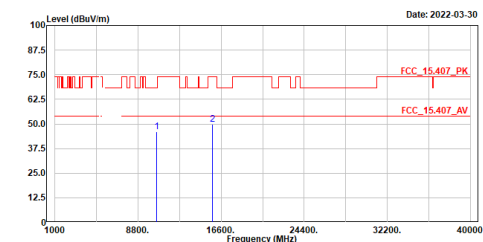
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax40_5230MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	10460.000	50.07	68.22	-18.15	43.94	6.13	Peak
2	15690.000	53.10	54.00	-0.90	42.93	10.17	Average
3	15690.000	70.95	74.00	-3.05	60.78	10.17	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

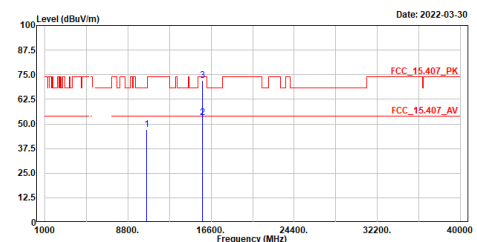
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax40_5270MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	10540.000	46.21	68.22	-22.01	40.05	6.16	Peak
2	15810.000	49.97	74.00	-24.03	39.88	10.09	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

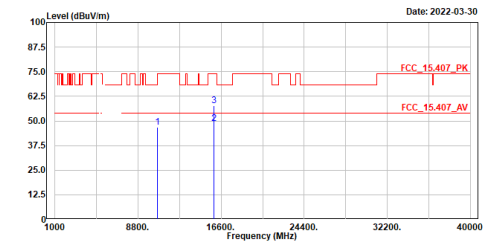
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax40_5270MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	10540.000	47.22	68.22	-21.00	41.06	6.16	Peak
2	15810.000	53.26	54.00	-0.74	43.17	10.09	Average
3	15810.000	72.17	74.00	-1.83	62.05	10.12	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

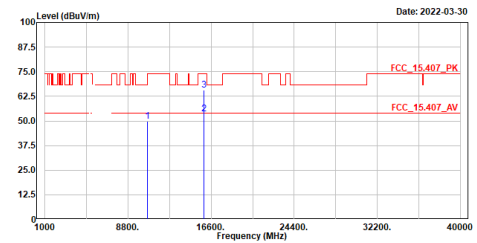
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax40_5310MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	10620.000	46.94	74.00	-27.06	48.67	6.27	Peak
2	15930.000	48.57	54.00	-5.43	38.22	10.35	Average
3	15930.000	57.91	74.00	-16.09	47.56	10.35	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

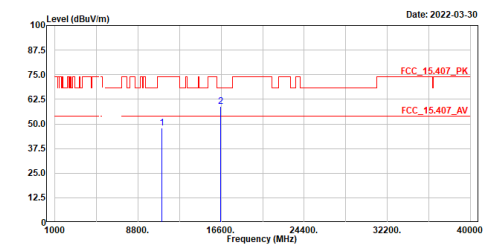
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax40_5310MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	10620.000	49.98	74.00	-24.02	43.71	6.27	Peak
2	15930.000	53.66	54.00	-0.34	43.31	10.35	Average
3	15930.000	65.80	74.00	-8.20	55.46	10.34	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

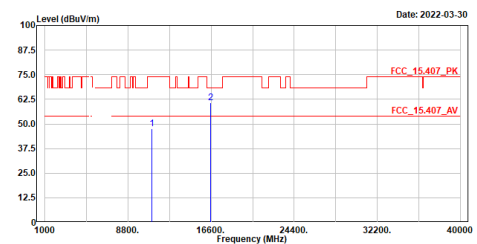
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax40_5510MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11020.000	48.06	74.00	-25.94	41.87	6.19	Peak
2	16530.000	59.01	68.22	-9.21	47.12	11.89	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

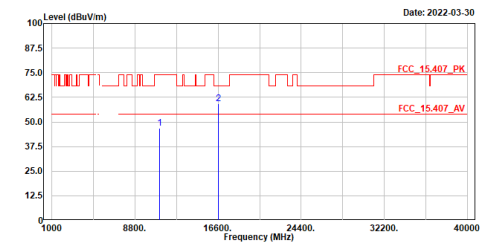
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax40_5510MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11020.000	47.73	74.00	-26.27	41.54	6.19	Peak
2	16530.000	60.85	68.22	-7.37	48.97	11.88	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

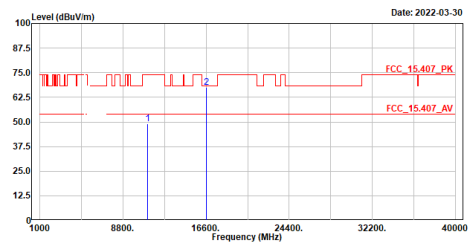
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax40_5550MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11100.000	46.65	74.00	-27.35	48.32	6.33	Peak
2	16650.000	59.08	68.22	-9.14	46.78	12.30	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

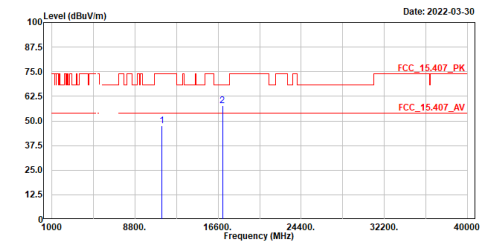
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax40_5550MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11100.000	49.08	74.00	-24.92	42.75	6.33	Peak
2	16650.000	67.56	68.22	-0.66	55.26	12.30	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

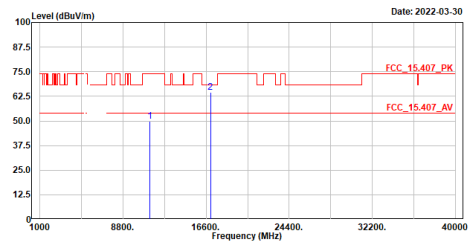
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax40_5670MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11340.000	47.51	74.00	-26.49	48.73	6.78	Peak
2	17010.000	57.65	68.22	-10.57	45.68	11.97	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

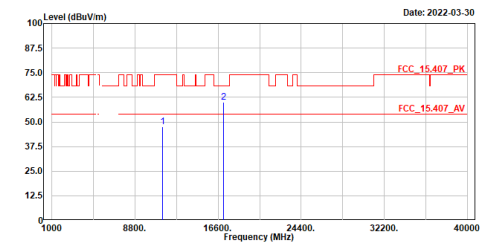
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax40_5670MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11340.000	49.64	74.00	-24.36	42.86	6.78	Peak
2	17010.000	64.48	68.22	-3.74	52.51	11.97	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax40.5710MHz
Test BY :Edward Wang

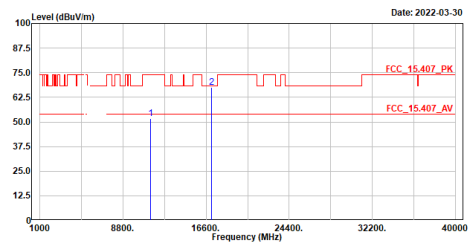


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11420.000	47.53	74.00	-26.47	48.63	6.90	Peak
2	17130.000	59.95	68.22	-8.27	47.53	12.42	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax40.5710MHz
Test BY :Edward Wang

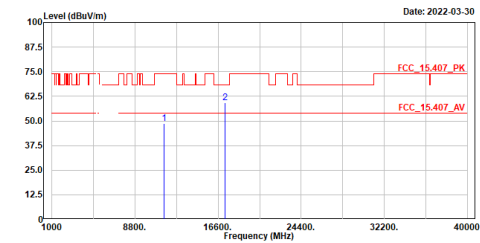


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11420.000	51.75	74.00	-22.25	44.85	6.90	Peak
2	17130.000	67.69	68.22	-0.53	55.27	12.42	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax40.5755MHz
Test BY :Edward Wang

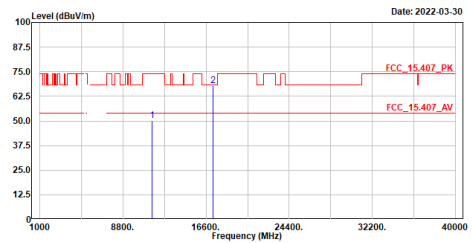


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11510.000	48.86	74.00	-25.14	41.75	7.11	Peak
2	17265.000	59.09	68.22	-9.13	46.87	12.22	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax40.5755MHz
Test BY :Edward Wang

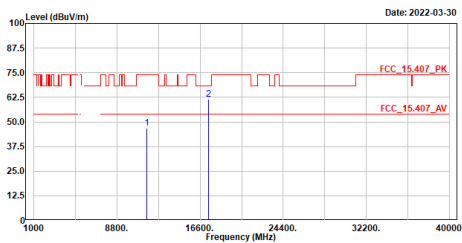


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11510.000	50.13	74.00	-23.87	43.02	7.11	Peak
2	17265.000	67.84	68.22	-0.38	55.62	12.22	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax00_5795MHz
Test BY :Edward Wang

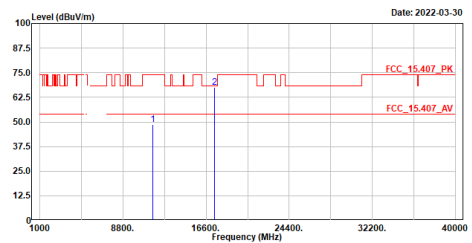


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	11590.000	46.86	74.00	-27.14	39.50	7.36	Peak
2	17385.000	61.65	68.22	-6.57	49.26	12.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax00_5795MHz
Test BY :Edward Wang

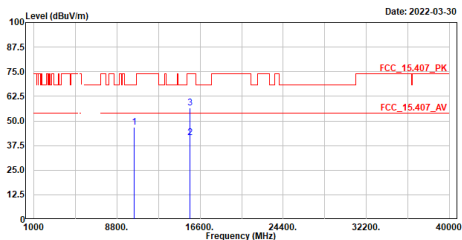


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	11590.000	48.74	74.00	-25.26	41.38	7.36	Peak
2	17385.000	67.60	68.22	-0.62	55.21	12.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax00_5210MHz
Test BY :Edward Wang

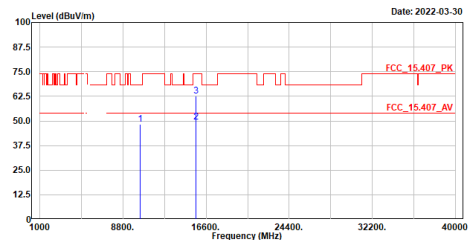


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	10420.000	46.66	68.22	-21.56	40.51	6.15	Peak
2	15630.000	41.62	54.00	-12.38	31.54	10.08	Average
3	15630.000	56.64	74.00	-17.36	46.57	10.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax00_5210MHz
Test BY :Edward Wang

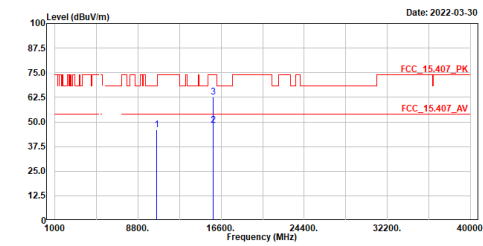


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	10420.000	48.47	68.22	-19.75	42.32	6.15	Peak
2	15630.000	49.34	54.00	-4.66	39.26	10.08	Average
3	15630.000	62.67	74.00	-11.33	52.60	10.07	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

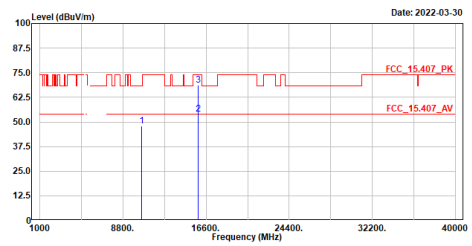
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax80_5290MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	10580.000	45.89	68.22	-22.33	39.63	6.26	Peak
2	15870.000	48.35	54.00	-5.65	38.11	10.24	Average
3	15870.000	62.71	74.00	-11.29	52.48	10.23	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

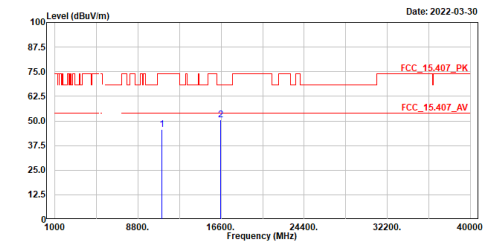
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax80_5290MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	10580.000	47.86	68.22	-20.36	41.68	6.26	Peak
2	15870.000	53.93	54.00	-0.07	43.69	10.24	Average
3	15870.000	68.51	74.00	-5.49	58.24	10.27	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

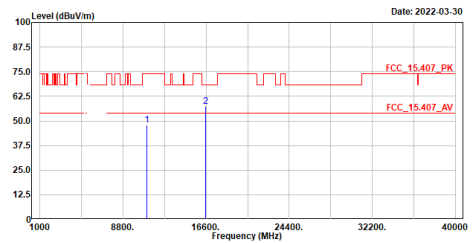
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax80_5530MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11060.000	45.63	74.00	-28.37	39.37	6.26	Peak
2	16590.000	50.50	68.22	-17.72	38.59	11.91	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

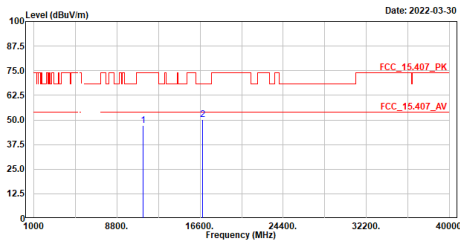
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax80_5530MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11060.000	47.76	74.00	-26.24	41.58	6.26	Peak
2	16590.000	57.19	68.22	-11.03	45.28	11.91	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax80_5610MHz
Test BY :Edward Wang

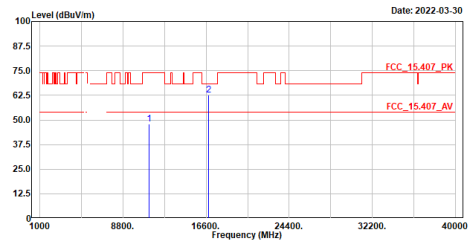


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11220.000	47.19	74.00	-26.81	48.61	6.58	Peak
2	16830.000	50.35	68.22	-17.87	37.77	12.58	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax80_5610MHz
Test BY :Edward Wang

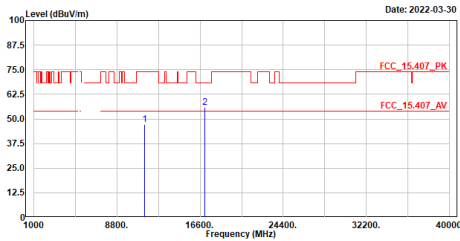


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11220.000	47.74	74.00	-26.26	41.16	6.58	Peak
2	16830.000	62.79	68.22	-5.43	50.21	12.58	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax80_5690MHz
Test BY :Edward Wang

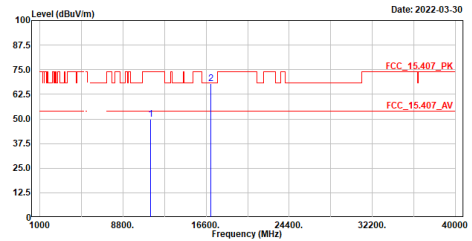


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11380.000	47.00	74.00	-27.00	48.19	6.81	Peak
2	17070.000	55.91	68.22	-12.31	43.55	12.36	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax80_5690MHz
Test BY :Edward Wang

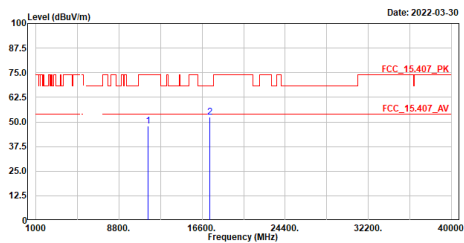


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11380.000	49.66	74.00	-24.34	42.85	6.81	Peak
2	17070.000	67.94	68.22	-0.28	55.58	12.36	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

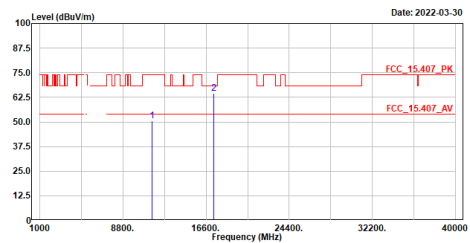
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax80_5775MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11550.000	47.76	74.00	-26.24	48.53	7.23	Peak
2	17325.000	52.58	68.22	-15.64	48.18	12.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

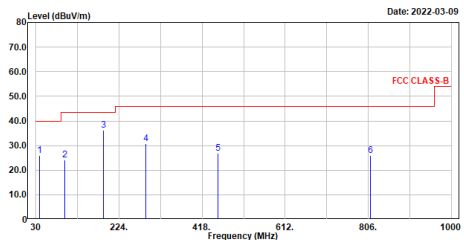
Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax80_5775MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	11550.000	58.58	74.00	-23.42	43.35	7.23	Peak
2	17325.000	64.54	68.22	-3.68	52.14	12.40	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

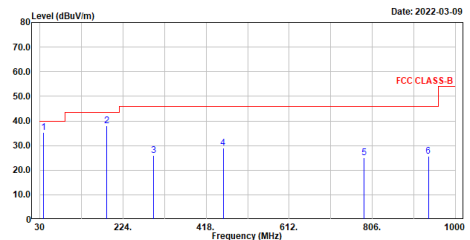
Site :966-3
Condition :3m ,HORIZONTAL
Mode :TX_ax80_5775MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	38.730	26.10	40.00	-13.90	50.31	-24.21	QP
2	97.900	24.02	43.50	-19.48	53.14	-29.12	QP
3	188.110	36.17	43.50	-7.33	62.56	-26.39	QP
4	287.050	30.86	46.00	-15.14	54.61	-23.75	QP
5	455.830	26.73	46.00	-19.27	45.87	-19.14	QP
6	811.820	25.91	46.00	-20.09	39.08	-13.17	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :966-3
Condition :3m ,VERTICAL
Mode :TX_ax80_5775MHz
Test BY :Jing Chang



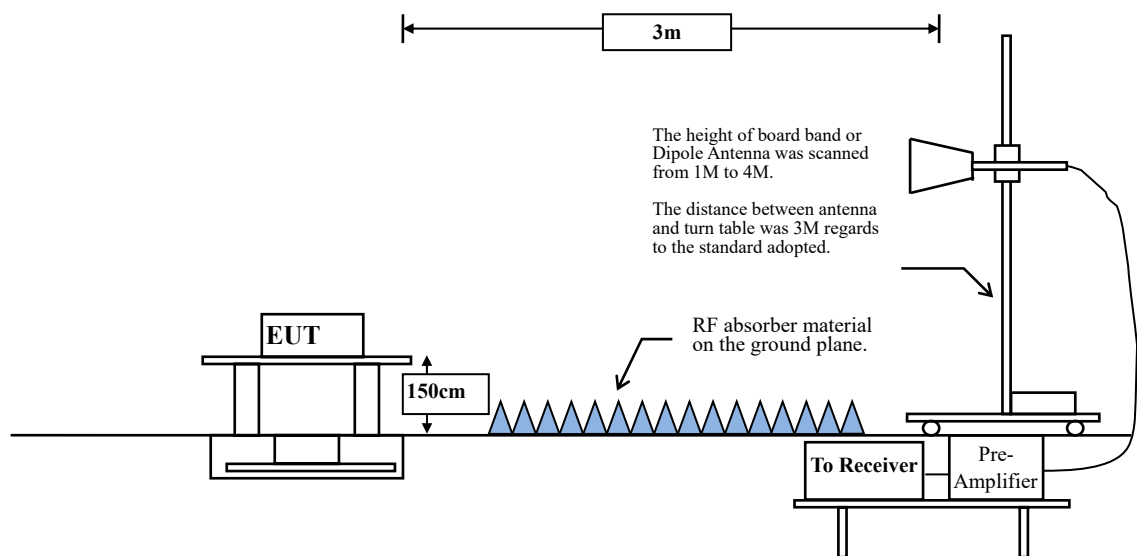
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	37.760	35.46	40.00	-4.54	59.88	-24.42	QP
2	185.200	38.18	43.50	-5.32	64.19	-26.01	QP
3	294.810	26.02	46.00	-19.98	49.57	-23.55	QP
4	457.770	28.90	46.00	-17.10	48.04	-19.14	QP
5	786.600	24.96	46.00	-21.04	38.21	-13.25	QP
6	936.950	25.56	46.00	-20.44	37.32	-11.76	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

6. Band Edge

6.1. Test Setup

RF Radiated Measurement:



6.2. Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.

Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBμV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks :
1. RF Voltage (dBμV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

6.3. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

RBW and VBW Parameter setting:

According to KDB 789033 section II.G.5 Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz.

RBW = 1MHz.

VBW $\geq$ 3MHz.

According to KDB 789033 section II.G.6 Procedures for Average Unwanted Emissions Measurements above 1000 MHz.

RBW = 1MHz.

VBW = 10Hz, when duty cycle $\geq$ 98 %

VBW $\geq$ 1/T, when duty cycle < 98 %

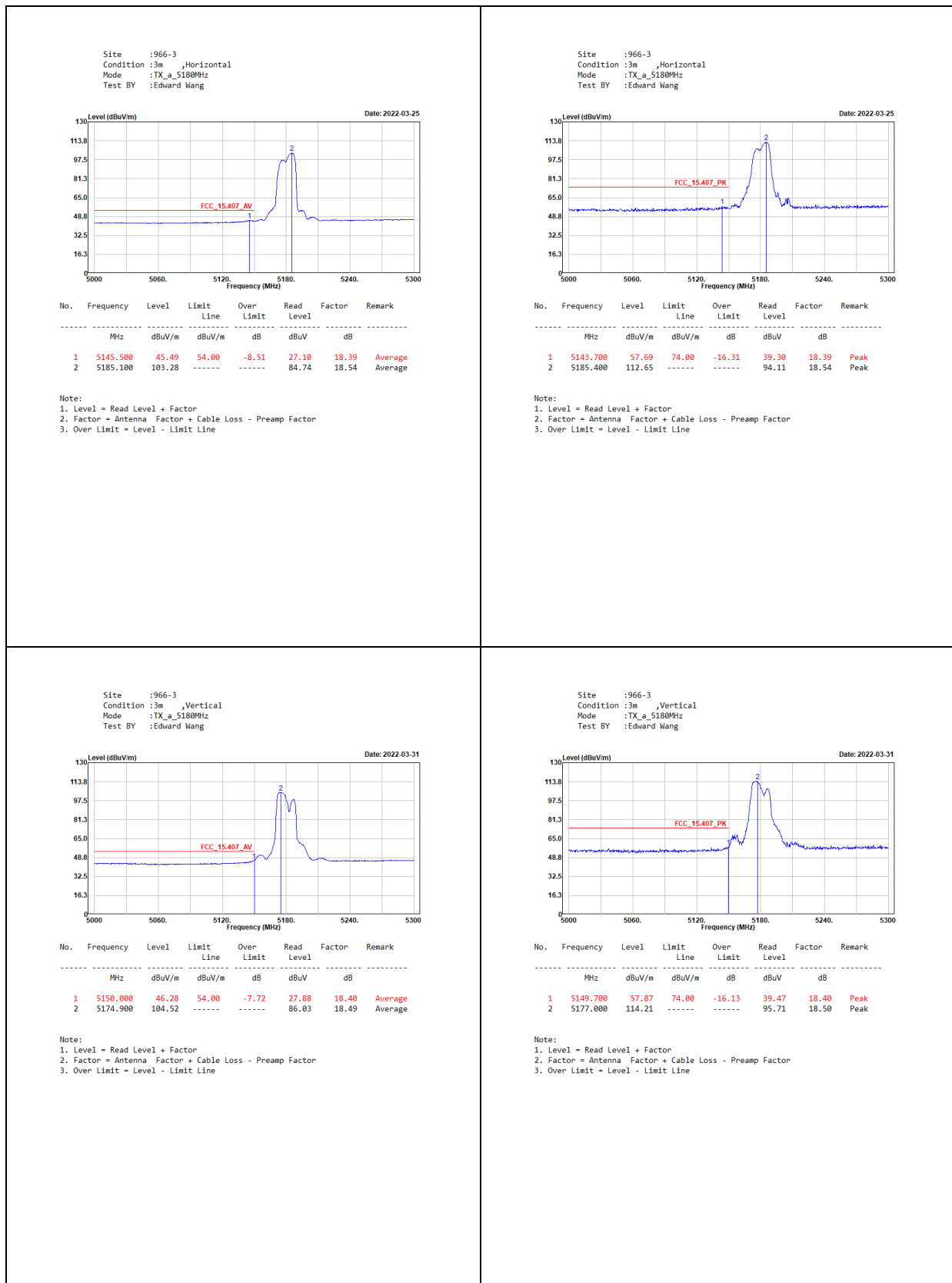
(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

CDD Mode:

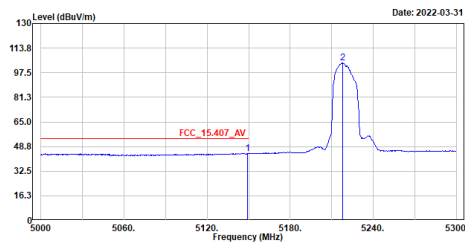
5GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11a	90.49	1.9500	513	1000
802.11ax20	93.40	5.3800	186	200
802.11ax40	94.43	5.4200	185	200
802.11ax80	93.43	5.4000	185	200

Note: Duty Cycle Refer to Section 8

6.4. Test Result of Band Edge



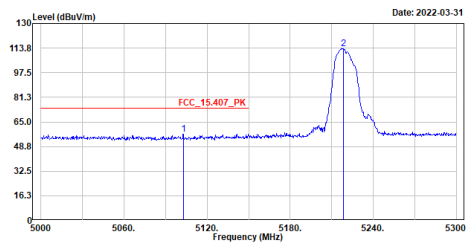
Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5220MHz_B1
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5149.100	44.38	54.00	-9.62	25.98	18.40	Average
2	5218.100	104.02	-----	-----	85.31	18.71	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

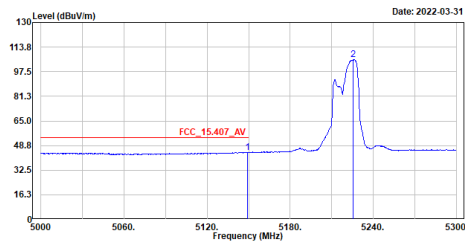
Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5220MHz_B1
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5102.900	56.88	74.00	-17.12	38.62	18.26	Peak
2	5218.400	113.48	-----	-----	94.77	18.71	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

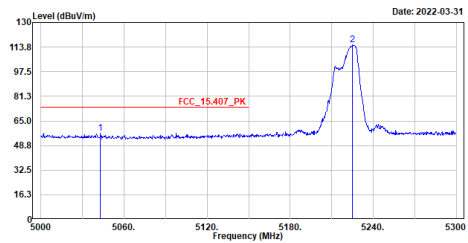
Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5220MHz_B1
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5149.400	44.34	54.00	-9.66	25.94	18.40	Average
2	5225.600	105.44	-----	-----	86.69	18.75	Average

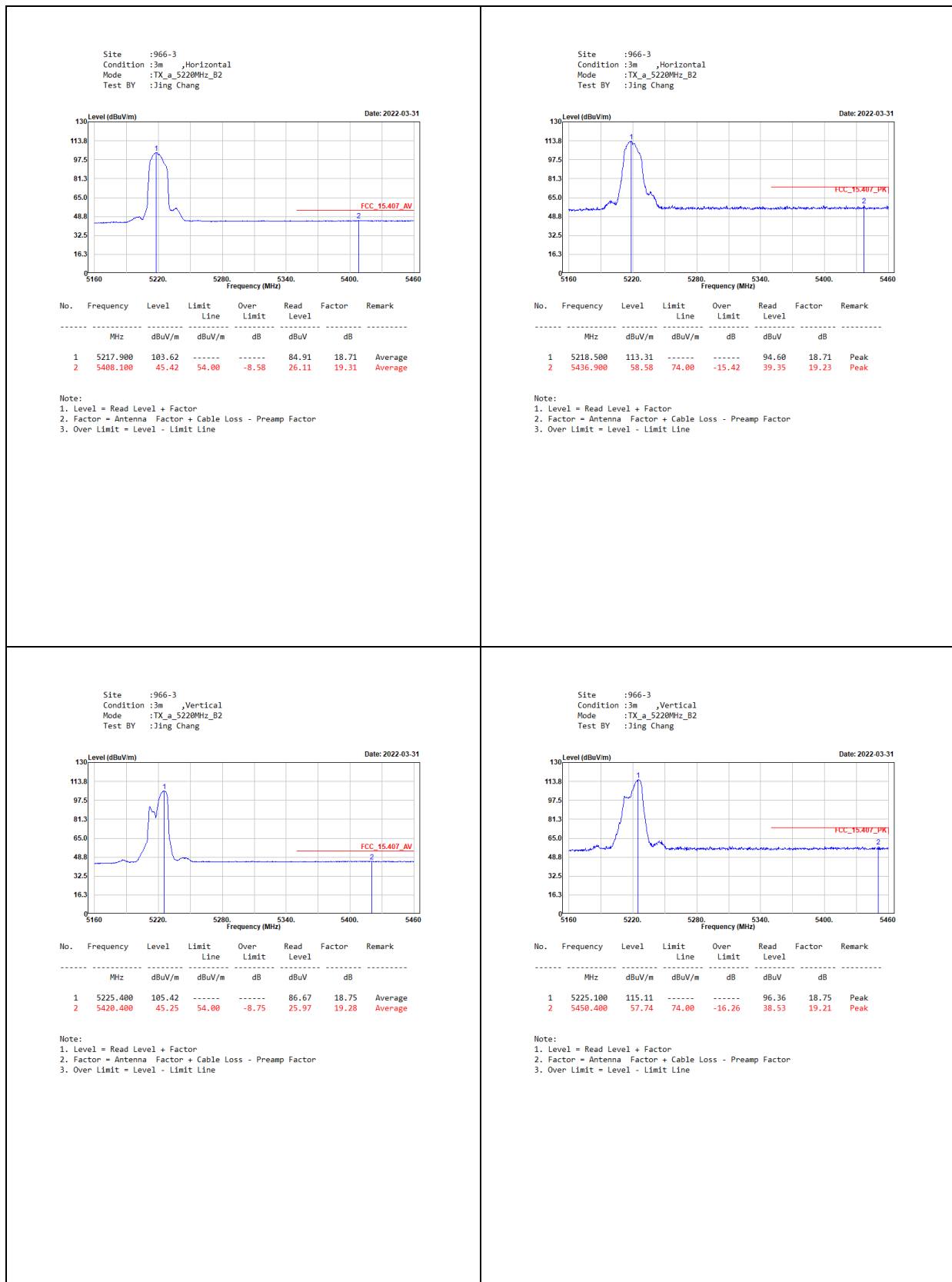
Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5220MHz_B1
Test BY :Jing Chang

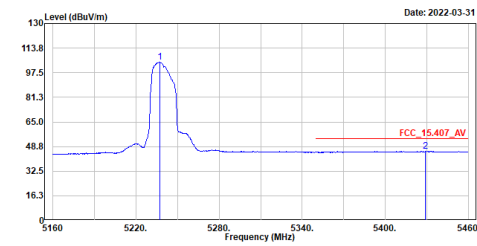


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5042.900	56.77	74.00	-17.23	38.57	18.20	Peak
2	5225.000	115.07	-----	-----	96.32	18.75	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line



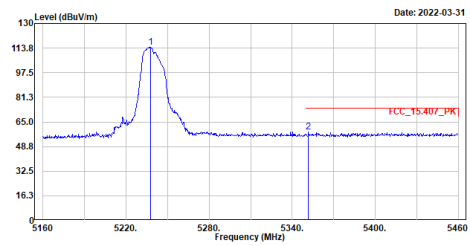
Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5240MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5237.400	104.48	-----	-----	85.66	18.82	Average
2	5429.100	45.59	54.00	-8.41	26.33	19.26	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

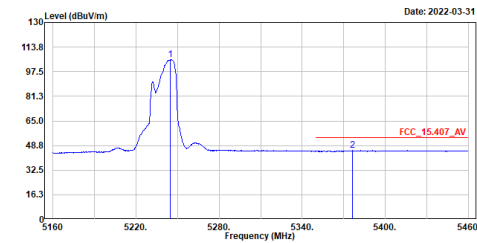
Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5240MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5237.700	114.31	-----	-----	95.49	18.82	Peak
2	5351.700	58.55	74.00	-15.45	39.51	19.04	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

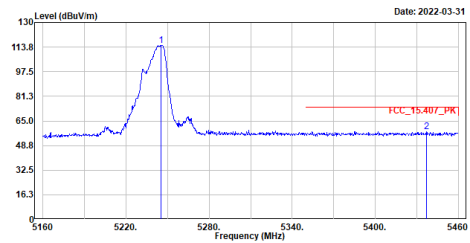
Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5240MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5244.900	105.33	-----	-----	86.46	18.87	Average
2	5376.300	45.45	54.00	-8.55	26.27	19.18	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

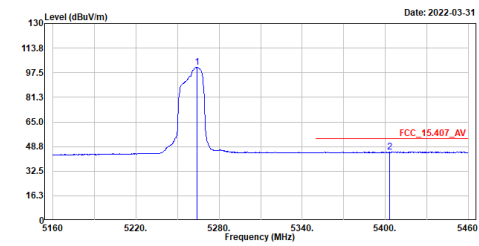
Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5240MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5245.500	114.88	-----	-----	96.01	18.87	Peak
2	5436.900	58.03	74.00	-15.97	38.80	19.23	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5260MHz
Test BY :Jing Chang

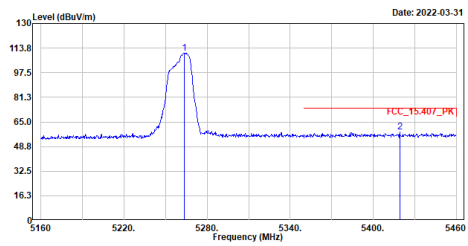


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5264.100	100.97	-----	-----	81.99	18.98	Average
2	5403.300	45.26	54.00	-8.74	25.95	19.31	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5260MHz
Test BY :Jing Chang

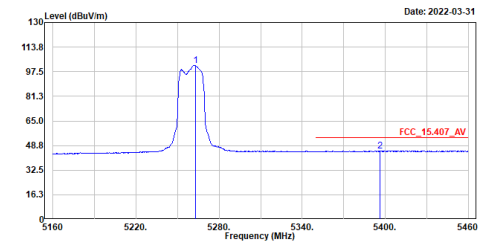


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5263.500	110.37	-----	-----	91.48	18.97	Peak
2	5419.200	58.35	74.00	-15.65	39.07	19.28	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5260MHz
Test BY :Jing Chang

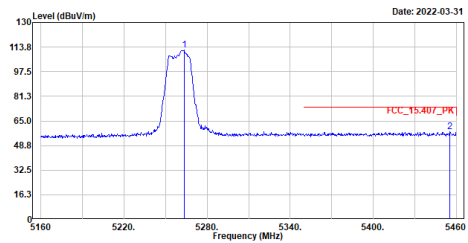


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5262.900	101.75	-----	-----	82.78	18.97	Average
2	5396.400	45.25	54.00	-8.75	25.94	19.31	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5260MHz
Test BY :Jing Chang

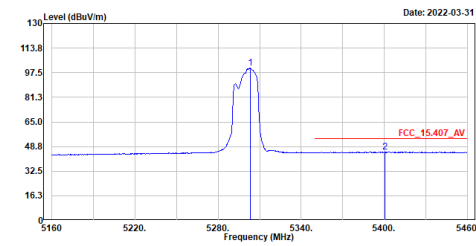


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5263.500	111.66	-----	-----	92.69	18.97	Peak
2	5455.500	57.82	74.00	-16.18	38.59	19.23	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

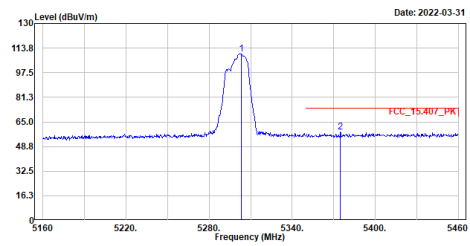
Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5300MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5303.100	100.48	-----	-----	81.33	19.15	Average
2	5400.300	45.16	54.00	-8.84	25.84	19.32	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

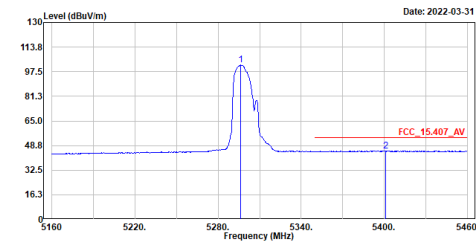
Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5300MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5303.100	109.96	-----	-----	90.81	19.15	Peak
2	5374.800	58.15	74.00	-15.85	38.98	19.17	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

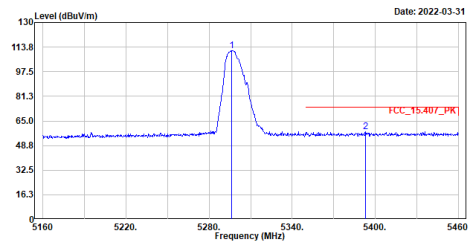
Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5300MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5296.500	101.90	-----	-----	82.75	19.15	Average
2	5400.900	45.29	54.00	-8.71	25.97	19.32	Average

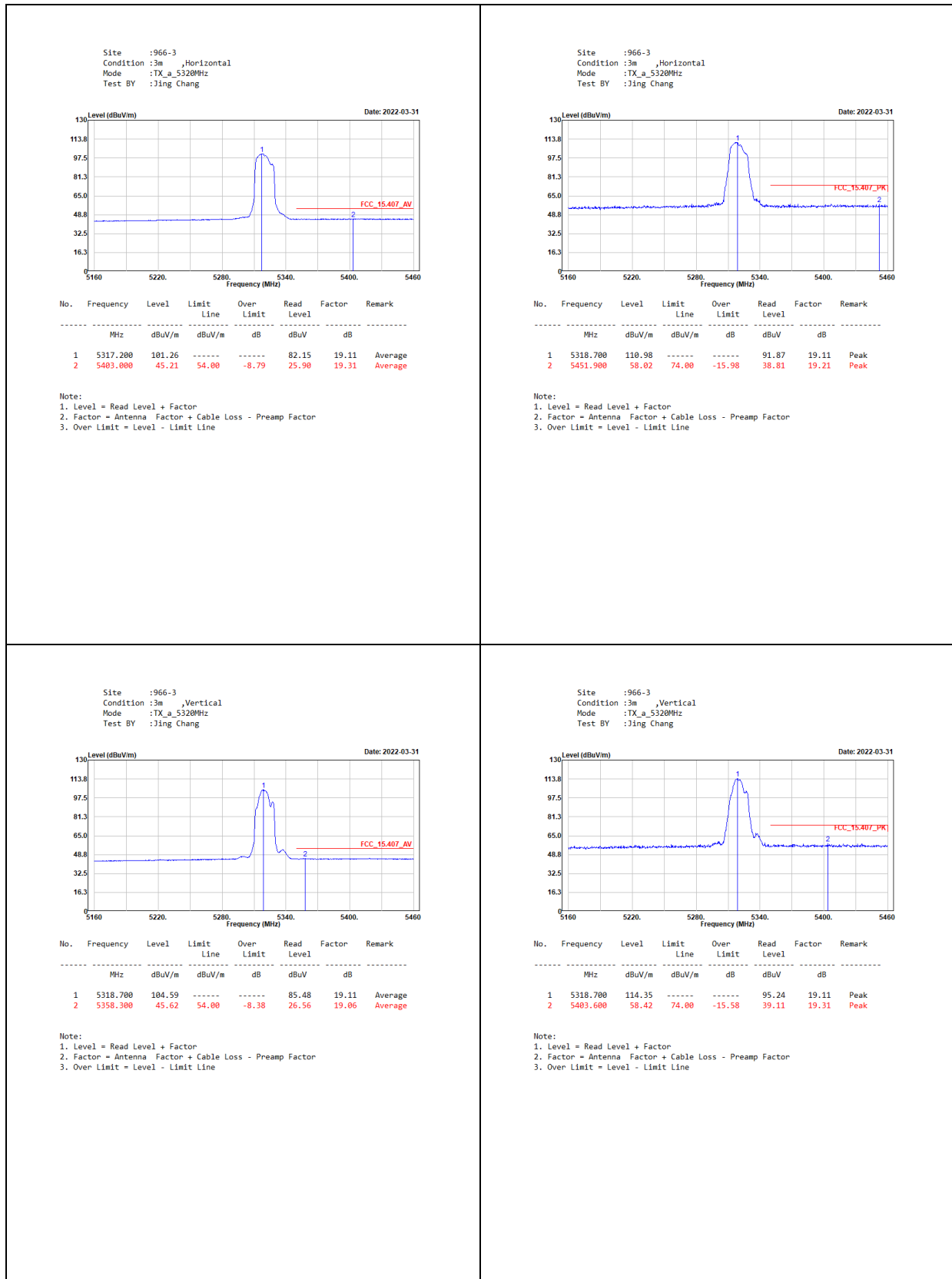
Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5300MHz
Test BY :Jing Chang

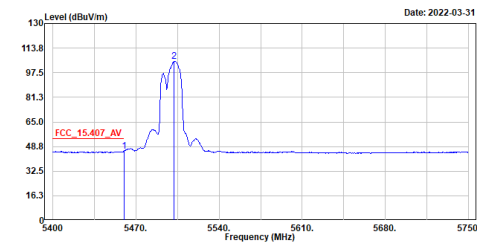


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5296.200	111.46	-----	-----	92.32	19.14	Peak
2	5393.100	57.81	74.00	-16.19	38.54	19.27	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line



Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5500MHz
Test BY :Jing Chang

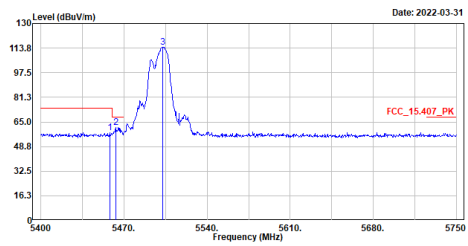


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5459.850	45.58	54.00	-8.42	26.34	19.24	Average
2	5502.200	105.11	-----	-----	85.72	19.39	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5500MHz
Test BY :Jing Chang

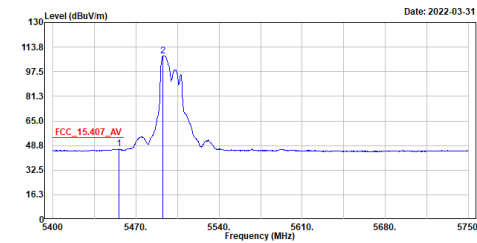


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5458.450	58.03	74.00	-15.97	38.79	19.24	Peak
2	5463.000	61.21	68.22	-7.01	41.95	19.26	Peak
3	5502.900	114.52	-----	-----	95.13	19.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5500MHz
Test BY :Jing Chang

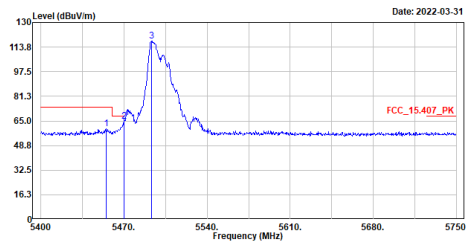


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5455.650	46.37	54.00	-7.63	27.14	19.23	Average
2	5492.750	108.11	-----	-----	88.75	19.36	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5500MHz
Test BY :Jing Chang

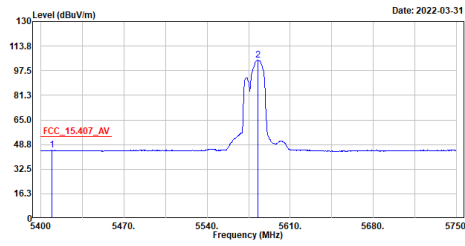


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5454.950	59.98	74.00	-14.02	40.76	19.22	Peak
2	5470.000	64.70	68.22	-3.52	45.42	19.28	Peak
3	5493.450	117.68	-----	-----	98.32	19.36	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

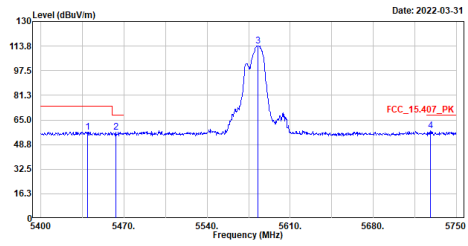
Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5580MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5409.450	44.93	54.00	-9.07	25.63	19.30	Average
2	5583.050	104.68	-----	-----	85.10	19.58	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

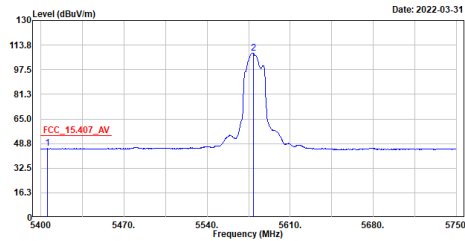
Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5580MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5439.200	57.13	74.00	-16.87	37.90	19.23	Peak
2	5463.350	57.12	68.22	-11.10	37.86	19.26	Peak
3	5583.050	114.03	-----	-----	94.45	19.58	Peak
4	5727.950	57.65	68.22	-10.57	37.85	19.80	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

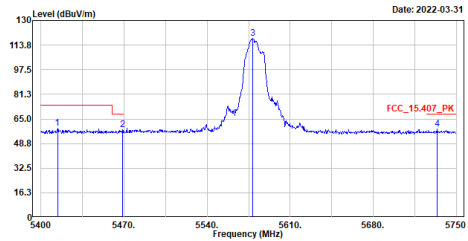
Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5580MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5405.250	45.70	54.00	-8.30	26.40	19.30	Average
2	5578.850	108.47	-----	-----	88.90	19.57	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

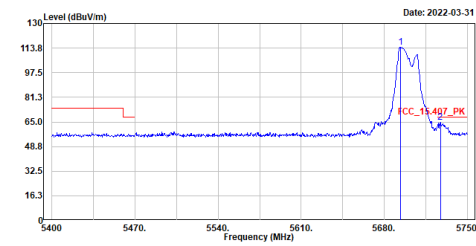
Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5580MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5414.000	58.68	74.00	-15.32	39.40	19.28	Peak
2	5468.950	57.65	68.22	-10.57	38.38	19.27	Peak
3	5578.500	118.07	-----	-----	98.50	19.57	Peak
4	5733.550	58.25	68.22	-9.97	38.43	19.82	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

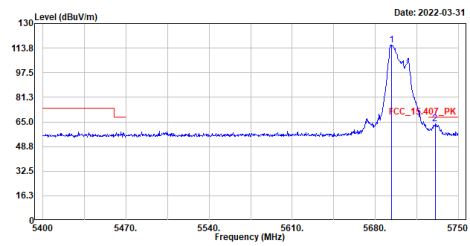
Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5700MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5694.000	114.40	-----	-----	94.78	19.62	Peak
2	5727.250	64.95	68.22	-3.27	45.15	19.80	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

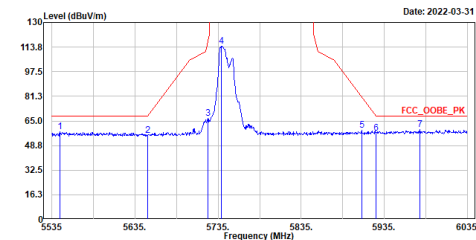
Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5700MHz
Test BY :Jing Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5693.650	115.76	-----	-----	96.14	19.62	Peak
2	5730.400	63.92	68.22	-4.30	44.11	19.81	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

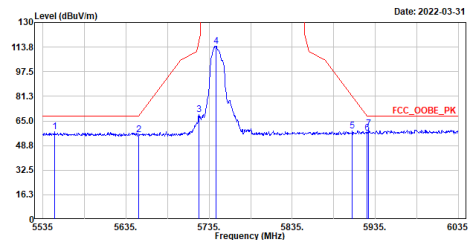
Site :966-3
Condition :3m ,Horizontal
Mode :TX_a_5745MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5544.500	57.75	68.20	-10.45	38.30	19.45	Peak
2	5650.000	55.53	68.21	-12.68	36.22	19.31	Peak
3	5722.500	66.79	116.50	-49.71	47.01	19.78	Peak
4	5739.000	114.12	-----	-----	94.27	19.85	Peak
5	5908.000	58.65	80.78	-22.13	38.22	20.43	Peak
6	5925.000	57.10	68.21	-11.11	36.63	20.47	Peak
7	5977.500	59.22	68.20	-8.98	38.64	20.58	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

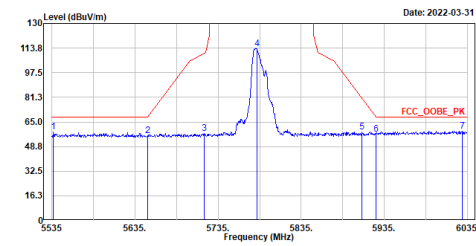
Site :966-3
Condition :3m ,Vertical
Mode :TX_a_5745MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5549.500	57.67	68.20	-10.53	38.21	19.46	Peak
2	5650.000	55.68	68.21	-12.53	36.37	19.31	Peak
3	5722.500	69.28	116.50	-47.22	49.50	19.78	Peak
4	5743.000	114.50	-----	-----	94.63	19.87	Peak
5	5907.500	58.52	81.15	-22.63	38.10	20.42	Peak
6	5925.000	57.01	68.21	-11.20	36.54	20.47	Peak
7	5927.000	59.77	68.20	-8.43	39.30	20.47	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX @ 5785MHz
Test BY :Edward Wang

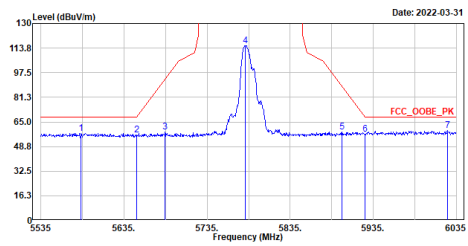


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	5537.000	58.23	68.20	-9.97	38.79	19.44	Peak
2	5650.000	55.77	68.21	-12.44	36.46	19.31	Peak
3	5718.000	57.21	110.24	-53.03	37.46	19.75	Peak
4	5781.500	113.43	-----	-----	93.48	19.95	Peak
5	5908.500	58.50	80.41	-21.91	38.07	20.43	Peak
6	5925.000	56.91	68.21	-11.30	36.44	20.47	Peak
7	6029.000	58.92	68.20	-9.28	38.19	20.73	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX @ 5785MHz
Test BY :Edward Wang

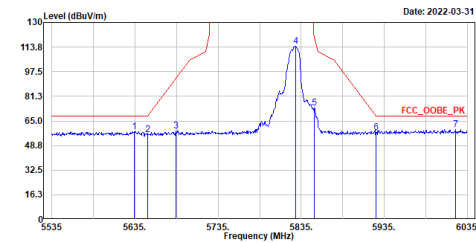


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	5583.500	57.39	68.20	-10.81	37.81	19.58	Peak
2	5650.000	56.45	68.21	-11.76	37.14	19.31	Peak
3	5684.500	58.16	93.73	-35.57	38.59	19.57	Peak
4	5781.000	115.35	-----	-----	95.41	19.94	Peak
5	5897.000	58.40	88.92	-30.52	38.02	20.38	Peak
6	5925.000	56.89	68.21	-11.32	36.42	20.47	Peak
7	6024.500	59.13	68.20	-9.07	38.42	20.71	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX @ 5825MHz
Test BY :Edward Wang

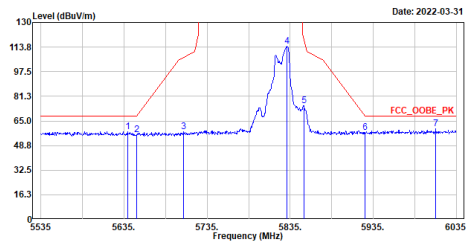


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	5634.500	57.90	68.20	-10.30	38.49	19.41	Peak
2	5650.000	55.72	68.21	-12.49	36.41	19.31	Peak
3	5684.000	58.58	93.36	-34.78	39.02	19.56	Peak
4	5828.000	114.17	-----	-----	94.14	20.03	Peak
5	5851.000	73.50	119.92	-46.42	53.43	20.07	Peak
6	5925.000	57.34	68.21	-10.87	36.87	20.47	Peak
7	6021.000	59.37	68.20	-8.83	38.68	20.69	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX @ 5825MHz
Test BY :Edward Wang

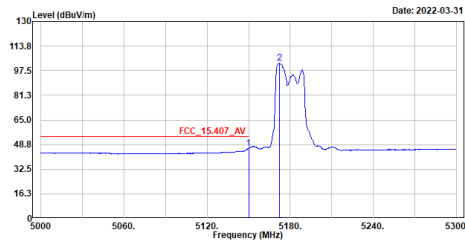


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	5639.500	57.74	68.20	-10.46	38.36	19.38	Peak
2	5650.000	55.91	68.21	-12.30	36.60	19.31	Peak
3	5707.000	57.95	107.16	-49.21	38.25	19.70	Peak
4	5831.500	114.21	-----	-----	94.18	20.03	Peak
5	5851.500	75.26	118.78	-43.52	55.19	20.07	Peak
6	5925.000	57.22	68.21	-10.99	36.75	20.47	Peak
7	6010.500	59.74	68.20	-8.46	39.09	20.65	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5180MHz
Test BY :Edward Wang

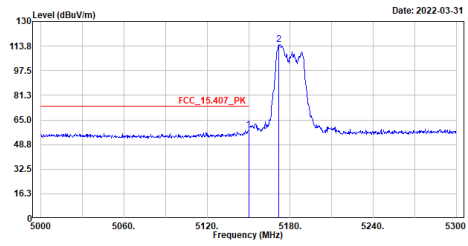


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5150.000	46.19	54.00	-7.81	27.79	18.40	Average
2	5172.500	102.61	-----	-----	84.13	18.48	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5180MHz
Test BY :Edward Wang

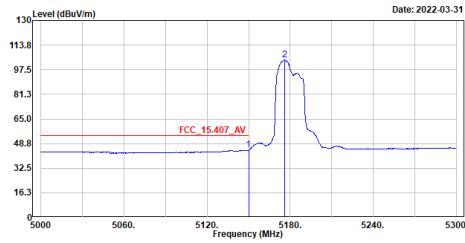


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5150.000	58.52	74.00	-15.48	40.12	18.40	Peak
2	5171.600	114.78	-----	-----	96.31	18.47	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5180MHz
Test BY :Edward Wang

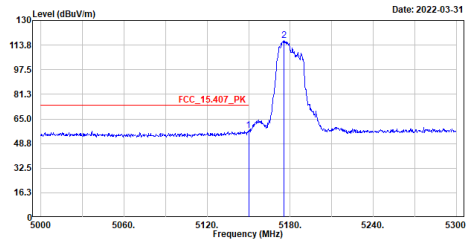


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5150.000	44.57	54.00	-9.43	26.17	18.40	Average
2	5175.000	103.96	-----	-----	85.47	18.49	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5180MHz
Test BY :Edward Wang

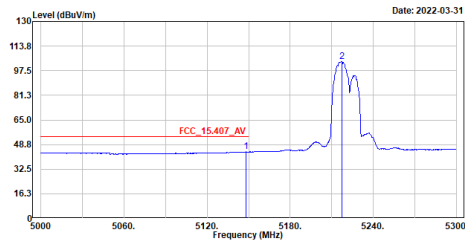


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5150.000	57.57	74.00	-16.43	39.17	18.40	Peak
2	5175.500	116.74	-----	-----	98.25	18.49	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5220MHz_B1
Test BY :Edward Wang

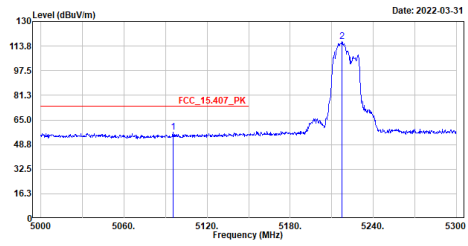


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5148.200	43.95	54.00	-10.05	25.55	18.40	Average
2	5217.200	103.64	-----	-----	84.93	18.71	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5220MHz_B1
Test BY :Edward Wang

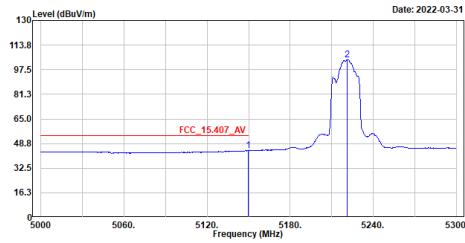


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5095.400	56.72	74.00	-17.28	38.47	18.25	Peak
2	5217.500	116.85	-----	-----	98.14	18.71	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5220MHz_B1
Test BY :Edward Wang

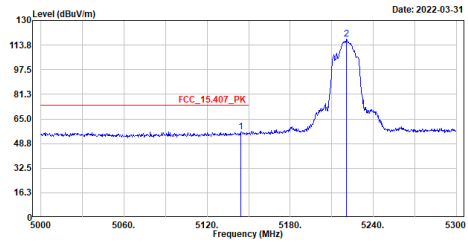


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5149.700	44.10	54.00	-9.90	25.70	18.40	Average
2	5221.100	104.08	-----	-----	85.36	18.72	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5220MHz_B1
Test BY :Edward Wang

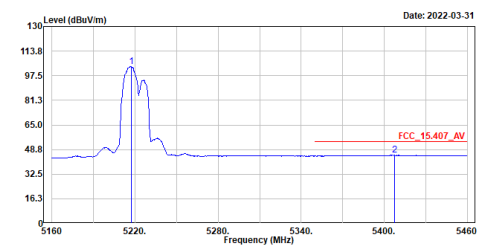


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5144.300	56.65	74.00	-17.35	38.26	18.39	Peak
2	5220.800	117.53	-----	-----	98.81	18.72	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5220MHz_B2
Test BY :Edward Wang

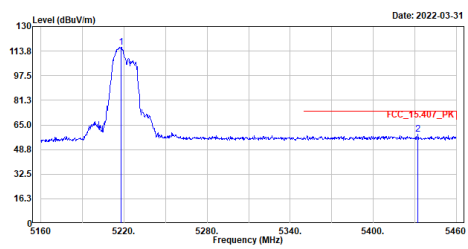


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5217.300	103.68	-----	-----	84.97	18.71	Average
2	5407.500	45.03	54.00	-8.97	25.72	19.31	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5220MHz_B2
Test BY :Edward Wang

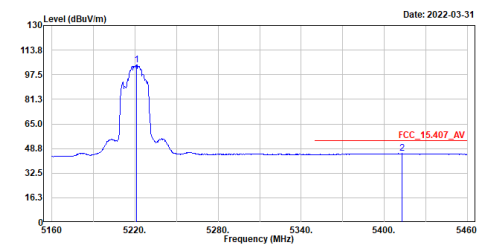


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5217.900	116.22	-----	-----	97.51	18.71	Peak
2	5432.400	58.81	74.00	-15.19	39.56	19.25	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5220MHz_B2
Test BY :Edward Wang

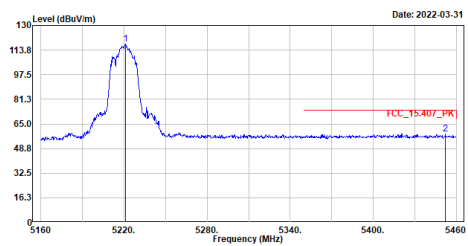


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5221.200	104.18	-----	-----	85.46	18.72	Average
2	5412.900	45.49	54.00	-8.51	26.20	19.29	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5220MHz_B2
Test BY :Edward Wang

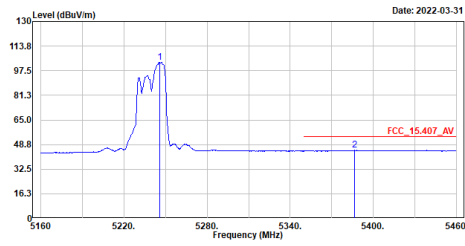


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5220.900	117.74	-----	-----	99.02	18.72	Peak
2	5452.200	58.46	74.00	-15.54	39.25	19.21	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

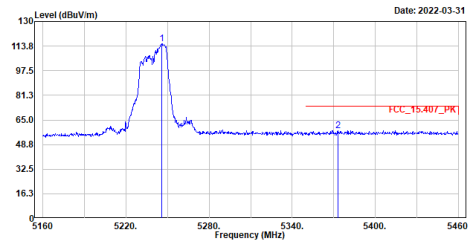
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5240MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5245.800	102.99	-----	-----	84.12	18.87	Average
2	5386.500	44.95	54.00	-9.05	25.71	19.24	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

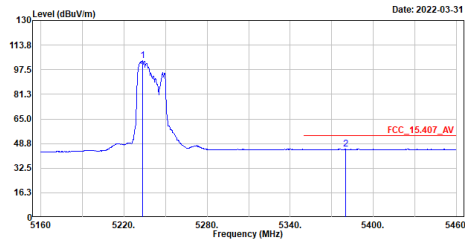
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5240MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5245.800	115.40	-----	-----	96.53	18.87	Peak
2	5373.000	58.10	74.00	-15.90	38.94	19.16	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

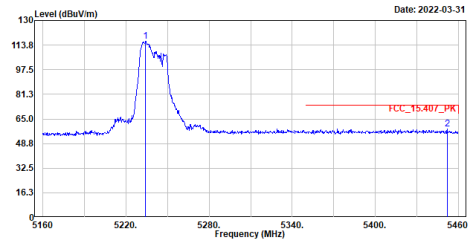
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5240MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5233.500	103.28	-----	-----	84.48	18.80	Average
2	5379.900	45.06	54.00	-8.94	25.86	19.20	Average

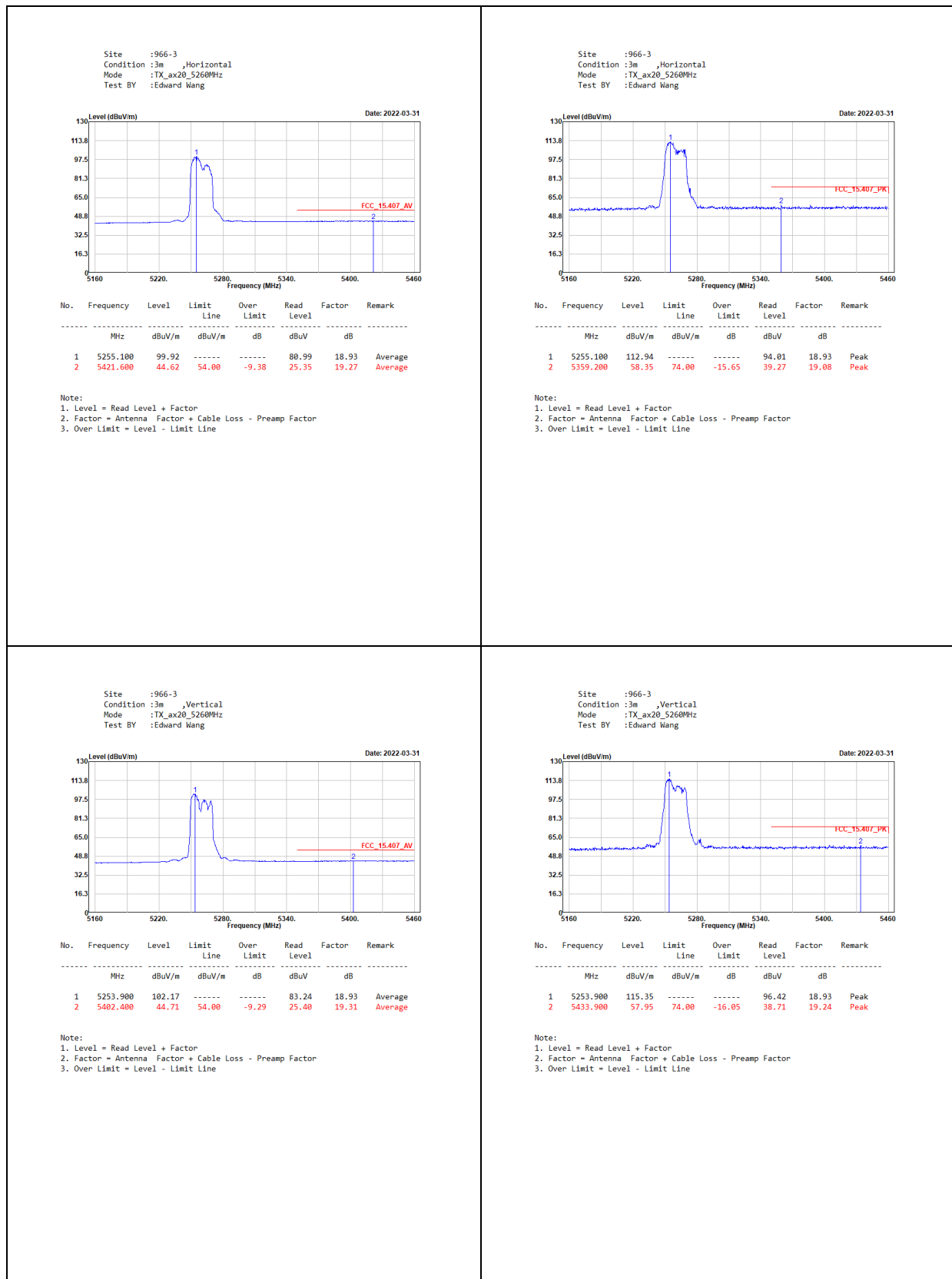
Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5240MHz
Test BY :Edward Wang

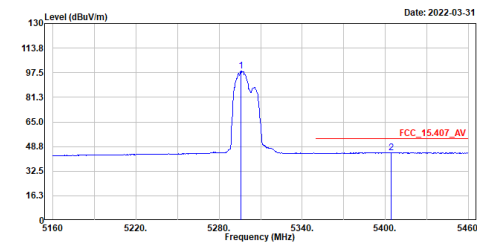


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5234.100	116.28	-----	-----	97.47	18.81	Peak
2	5451.900	58.31	74.00	-15.69	39.10	19.21	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line



Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5300MHz
Test BY :Edward Wang

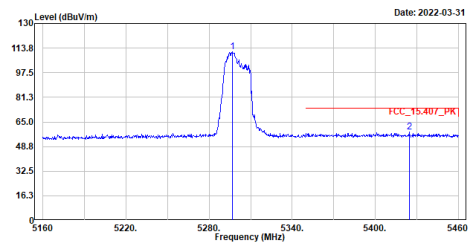


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5295.900	98.50	-----	-----	79.36	19.14	Average
2	5404.200	44.76	54.00	-9.24	25.46	19.30	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5300MHz
Test BY :Edward Wang

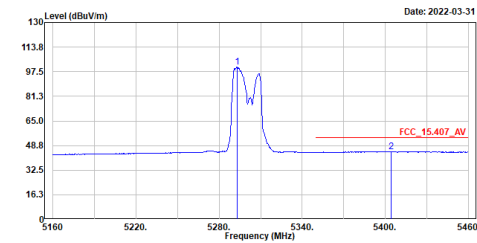


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5296.800	111.46	-----	-----	92.31	19.15	Peak
2	5424.600	58.22	74.00	-15.78	38.96	19.26	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5300MHz
Test BY :Edward Wang

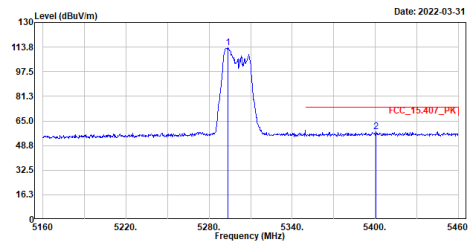


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5292.900	100.46	-----	-----	81.34	19.12	Average
2	5404.200	44.76	54.00	-9.24	25.46	19.30	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5300MHz
Test BY :Edward Wang

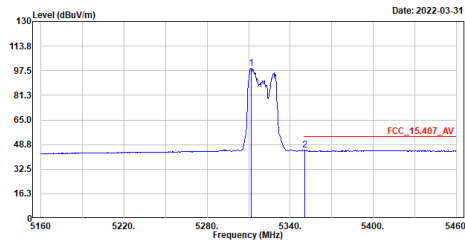


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5293.500	113.13	-----	-----	94.01	19.12	Peak
2	5400.300	57.97	74.00	-16.03	38.65	19.32	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5320MHz
Test BY :Edward Wang

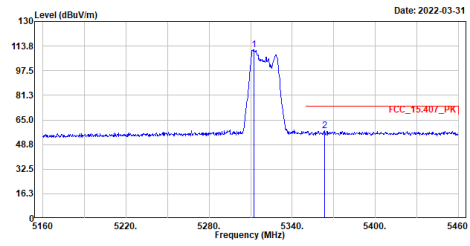


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5311.800	99.17	-----	-----	88.05	19.12	Average
2	5350.500	44.89	54.00	-9.11	25.86	19.03	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5320MHz
Test BY :Edward Wang

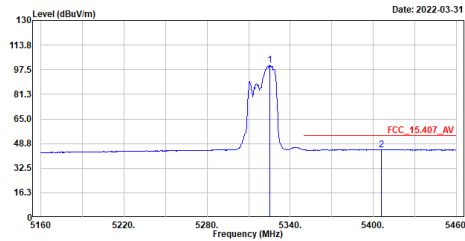


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5312.400	111.55	-----	-----	92.43	19.12	Peak
2	5363.700	57.66	74.00	-16.34	38.56	19.10	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5320MHz
Test BY :Edward Wang

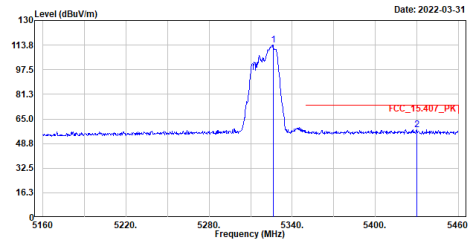


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5325.300	100.34	-----	-----	81.26	19.08	Average
2	5406.000	44.77	54.00	-9.23	25.45	19.32	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5320MHz
Test BY :Edward Wang

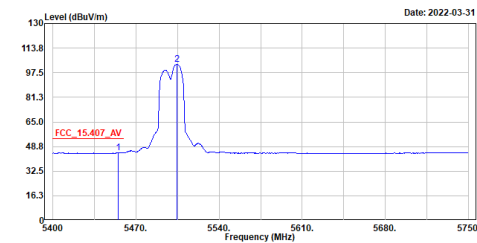


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5326.200	113.94	-----	-----	94.86	19.08	Peak
2	5430.000	58.06	74.00	-15.94	38.80	19.26	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

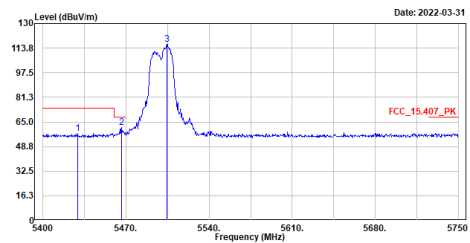
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5500MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5455.300	44.65	54.00	-9.35	25.43	19.22	Average
2	5504.300	103.12	-----	-----	83.73	19.39	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

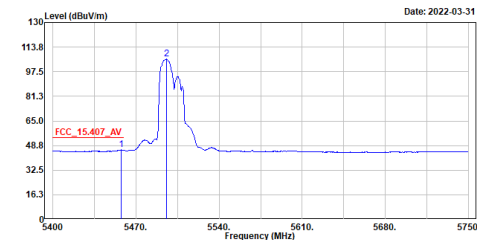
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5500MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5429.400	57.56	74.00	-16.44	38.30	19.26	Peak
2	5466.500	61.23	68.22	-6.99	41.97	19.26	Peak
3	5504.300	116.18	-----	-----	96.79	19.39	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

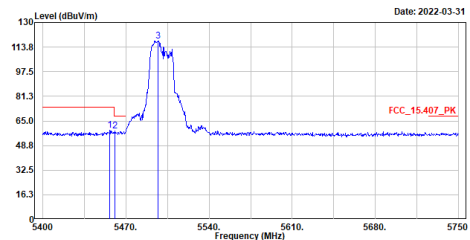
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5500MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5457.750	45.89	54.00	-8.11	26.65	19.24	Average
2	5495.550	105.73	-----	-----	86.36	19.37	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

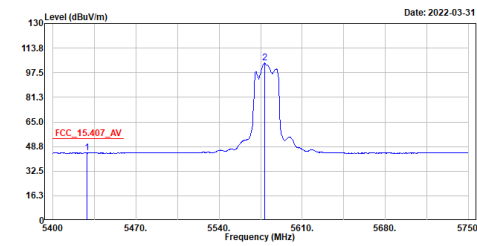
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5500MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5456.350	59.10	74.00	-14.90	39.87	19.23	Peak
2	5468.900	58.43	68.22	-9.79	39.19	19.24	Peak
3	5497.300	117.93	-----	-----	98.56	19.37	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5580MHz
Test BY :Edward Wang

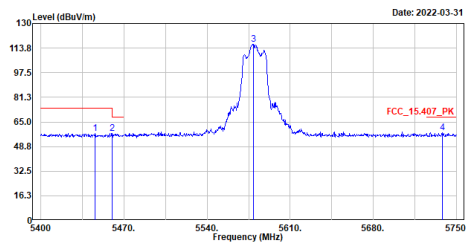


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5428.700	44.62	54.00	-9.38	25.35	19.27	Average
2	5578.500	103.77	-----	-----	84.20	19.57	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax20_5580MHz
Test BY :Edward Wang

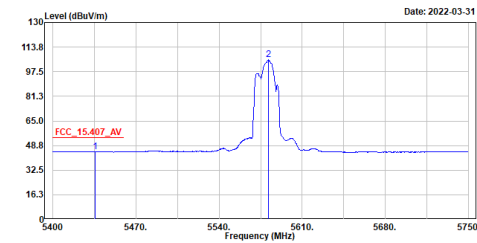


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5445.850	57.53	74.00	-16.47	38.31	19.22	Peak
2	5460.200	57.31	68.22	-10.91	38.07	19.24	Peak
3	5579.200	116.16	-----	-----	96.59	19.57	Peak
4	5738.100	57.86	68.22	-10.36	38.02	19.84	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5580MHz
Test BY :Edward Wang

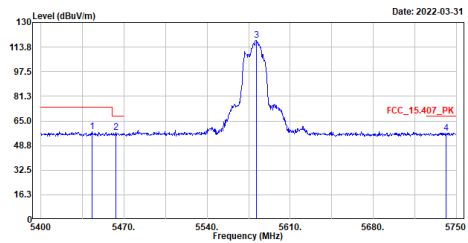


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5435.700	44.82	54.00	-9.18	25.58	19.24	Average
2	5581.300	105.29	-----	-----	85.72	19.57	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

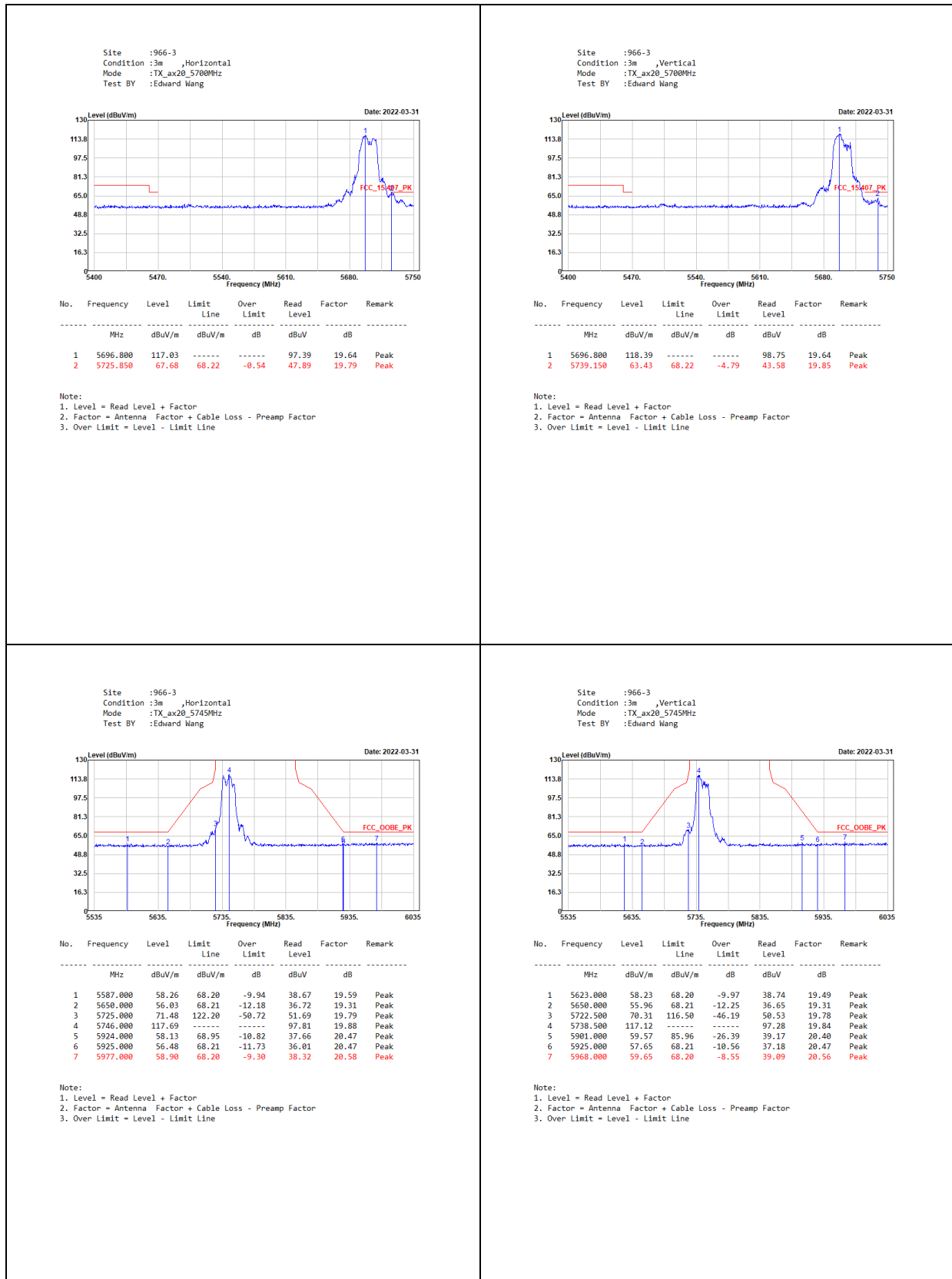
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax20_5580MHz
Test BY :Edward Wang



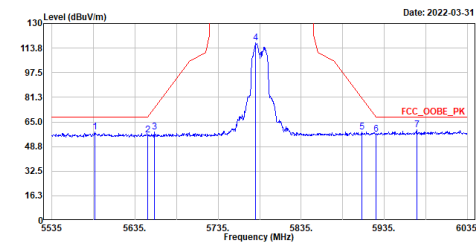
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5443.400	57.82	74.00	-16.18	38.59	19.23	Peak
2	5463.350	57.34	68.22	-10.88	38.08	19.26	Peak
3	5581.300	118.11	-----	-----	98.54	19.57	Peak
4	5741.600	57.02	68.22	-11.20	37.15	19.87	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line



Site :966-3
Condition :3m ,Horizontal
Mode :TX ax20, 5785MHz
Test BY :Edward Wang

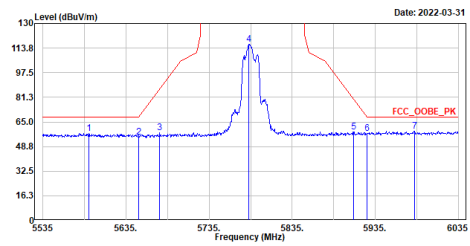


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5587.000	58.32	68.20	-9.88	38.73	19.59	Peak
2	5650.000	56.46	68.21	-11.75	37.15	19.31	Peak
3	5658.500	58.29	74.50	-16.21	38.91	19.38	Peak
4	5780.500	117.01	-----	-----	97.07	19.94	Peak
5	5908.000	58.53	80.78	-22.25	38.10	20.43	Peak
6	5925.000	57.06	68.21	-11.15	36.59	20.47	Peak
7	5974.000	59.62	68.20	-8.58	39.04	20.58	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX ax20, 5785MHz
Test BY :Edward Wang

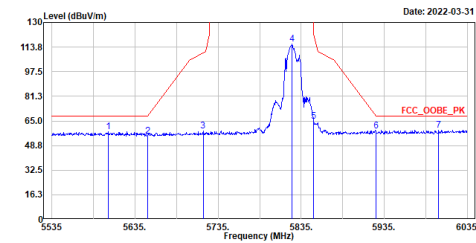


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5590.000	57.36	68.20	-10.84	37.76	19.60	Peak
2	5650.000	55.18	68.21	-13.03	35.87	19.31	Peak
3	5675.500	57.91	87.07	-29.16	38.41	19.50	Peak
4	5782.500	116.38	-----	-----	96.43	19.95	Peak
5	5909.000	58.49	80.05	-21.56	38.06	20.43	Peak
6	5925.000	57.15	68.21	-11.06	36.68	20.47	Peak
7	5982.000	59.04	68.20	-9.16	38.46	20.58	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX ax20, 5825MHz
Test BY :Edward Wang

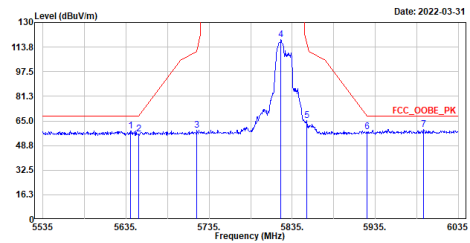


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5603.000	58.10	68.20	-10.10	38.48	19.62	Peak
2	5650.000	55.15	68.21	-13.06	35.84	19.31	Peak
3	5717.000	58.30	109.96	-51.66	38.56	19.74	Peak
4	5824.000	115.67	-----	-----	95.65	20.02	Peak
5	5850.000	64.98	122.20	-57.22	44.92	20.06	Peak
6	5925.000	58.38	68.21	-9.83	37.91	20.47	Peak
7	6000.500	59.06	68.20	-9.14	38.46	20.60	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX ax20, 5825MHz
Test BY :Edward Wang

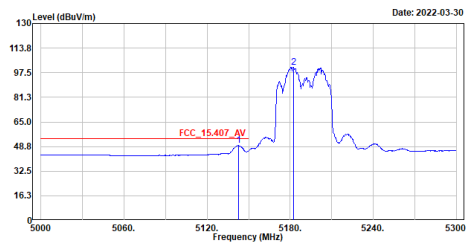


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5640.500	58.45	68.20	-9.75	39.07	19.38	Peak
2	5650.000	56.20	68.21	-12.01	36.89	19.31	Peak
3	5720.500	59.02	111.94	-52.92	39.25	19.77	Peak
4	5821.500	118.61	-----	-----	98.60	20.01	Peak
5	5853.000	65.01	115.36	-50.35	44.93	20.08	Peak
6	5925.000	57.74	68.21	-10.47	37.27	20.47	Peak
7	5993.000	59.57	68.20	-8.63	38.97	20.60	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

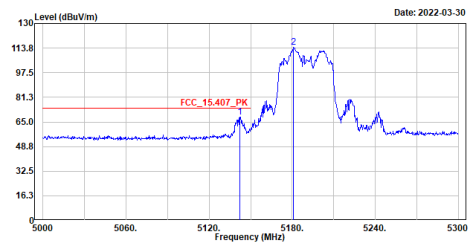
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5190MHz
Test BY :Edward Wang



Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

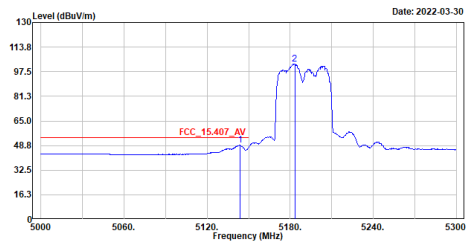
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5190MHz
Test BY :Edward Wang



Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

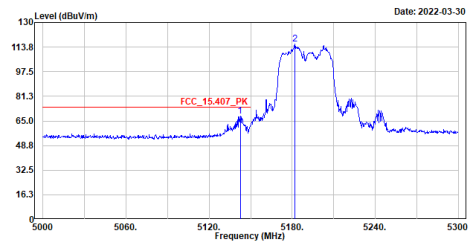
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5190MHz
Test BY :Edward Wang



Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

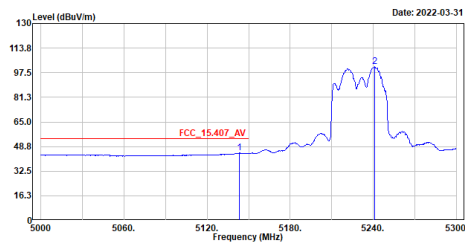
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5190MHz
Test BY :Edward Wang



Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5230MHz_B1
Test BY :Edward Wang

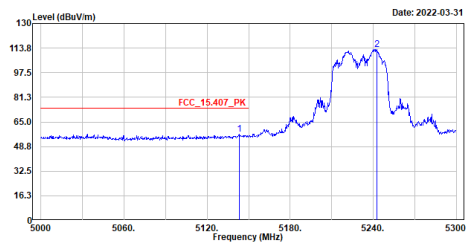


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5143.100	44.45	54.00	-9.55	26.06	18.39	Average
2	5241.200	101.33	-----	-----	82.48	18.85	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5230MHz_B1
Test BY :Edward Wang

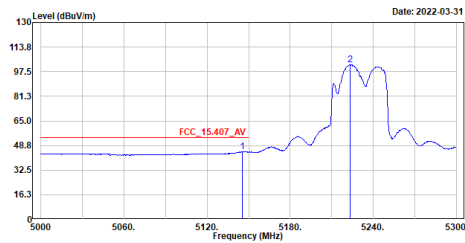


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5143.100	56.94	74.00	-17.06	38.55	18.39	Peak
2	5242.700	113.00	-----	-----	94.14	18.86	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5230MHz_B1
Test BY :Edward Wang

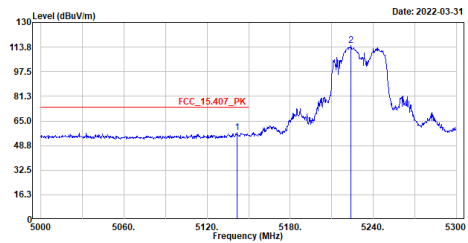


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5145.500	44.64	54.00	-9.36	26.25	18.39	Average
2	5223.200	101.90	-----	-----	83.16	18.74	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5230MHz_B1
Test BY :Edward Wang

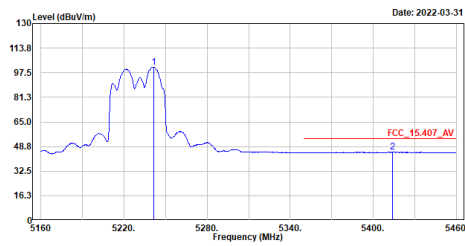


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5141.600	57.47	74.00	-16.53	39.09	18.38	Peak
2	5224.100	114.63	-----	-----	95.88	18.75	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5230MHz_B2
Test BY :Edward Wang

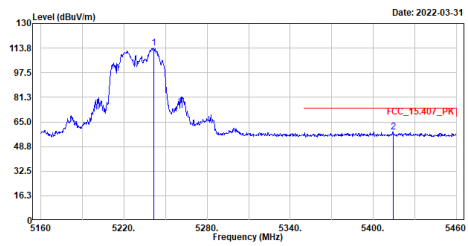


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5241.300	101.29	-----	-----	82.43	18.86	Average
2	5413.800	45.09	54.00	-8.91	25.81	19.28	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5230MHz_B2
Test BY :Edward Wang

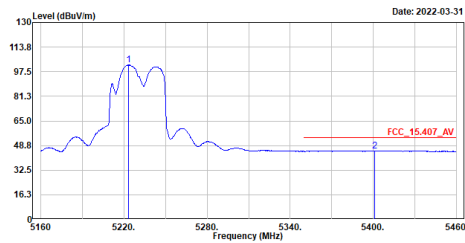


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5241.600	113.79	-----	-----	94.93	18.86	Peak
2	5414.400	58.56	74.00	-15.44	39.28	19.28	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5230MHz_B2
Test BY :Edward Wang

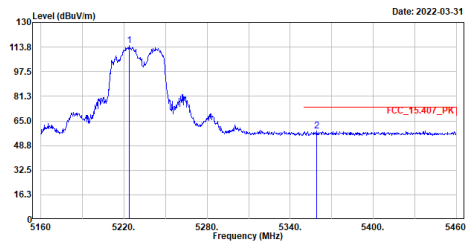


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5223.300	102.02	-----	-----	83.28	18.74	Average
2	5400.900	45.34	54.00	-8.66	26.02	19.32	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5230MHz_B2
Test BY :Edward Wang

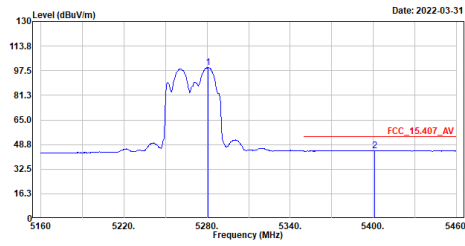


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5223.600	114.83	-----	-----	96.09	18.74	Peak
2	5359.200	58.51	74.00	-15.49	39.43	19.08	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5270MHz
Test BY :Edward Wang

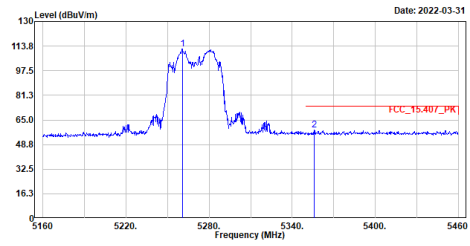


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5280.600	99.69	-----	-----	88.64	19.05	Average
2	5400.900	44.81	54.00	-9.19	25.49	19.32	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5270MHz
Test BY :Edward Wang

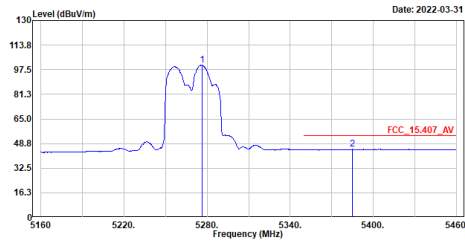


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5260.800	111.80	-----	-----	92.85	18.95	Peak
2	5355.900	58.34	74.00	-15.66	39.29	19.05	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5270MHz
Test BY :Edward Wang

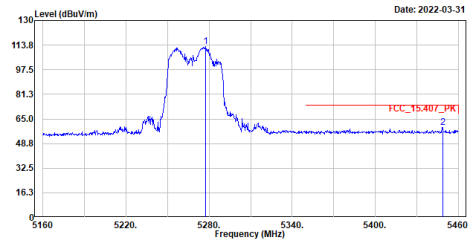


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5276.400	100.61	-----	-----	81.57	19.04	Average
2	5384.700	44.97	54.00	-9.03	25.74	19.23	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5270MHz
Test BY :Edward Wang

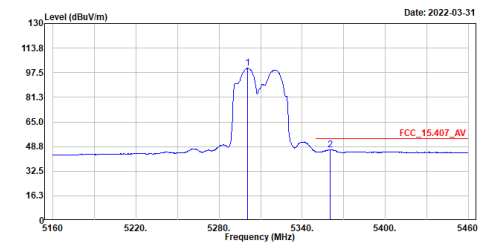


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5277.300	112.77	-----	-----	93.73	19.04	Peak
2	5448.600	59.48	74.00	-14.52	40.27	19.21	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5310MHz
Test BY :Edward Wang

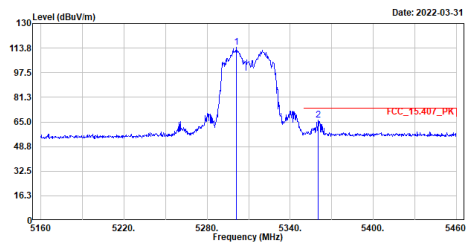


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5300.700	100.50	-----	-----	81.34	19.16	Average
2	5360.400	46.80	54.00	-7.20	27.72	19.08	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5310MHz
Test BY :Edward Wang

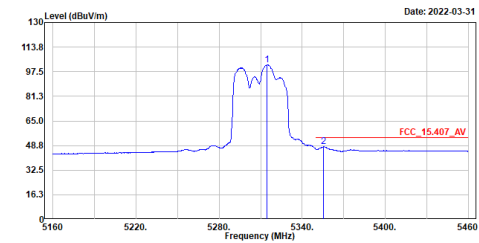


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5301.300	114.09	-----	-----	94.94	19.15	Peak
2	5360.400	66.41	74.00	-7.59	47.33	19.08	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5310MHz
Test BY :Edward Wang

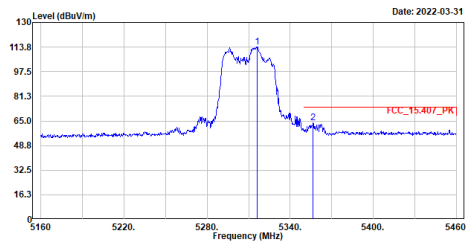


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5314.800	102.09	-----	-----	82.98	19.11	Average
2	5355.600	47.94	54.00	-6.06	28.89	19.05	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5310MHz
Test BY :Edward Wang

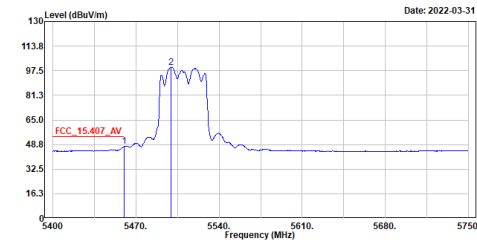


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5316.000	113.72	-----	-----	94.61	19.11	Peak
2	5356.500	63.79	74.00	-10.21	44.73	19.06	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

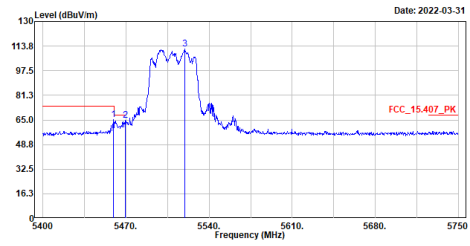
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5510MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5459.850	47.36	54.00	-6.64	28.12	19.24	Average
2	5499.750	99.79	-----	-----	80.40	19.39	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

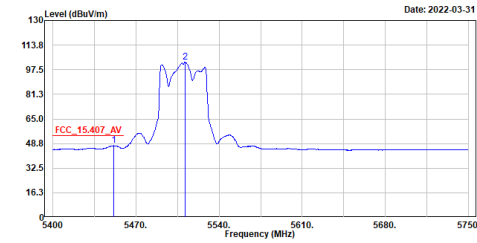
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5510MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5459.500	65.20	74.00	-8.80	45.96	19.24	Peak
2	5469.300	64.70	68.22	-3.52	45.43	19.27	Peak
3	5519.700	111.79	-----	-----	92.37	19.42	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

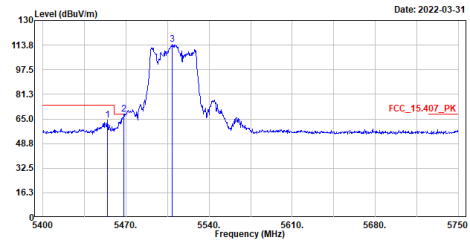
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5510MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5451.450	47.38	54.00	-6.62	28.17	19.21	Average
2	5511.300	102.42	-----	-----	83.01	19.41	Average

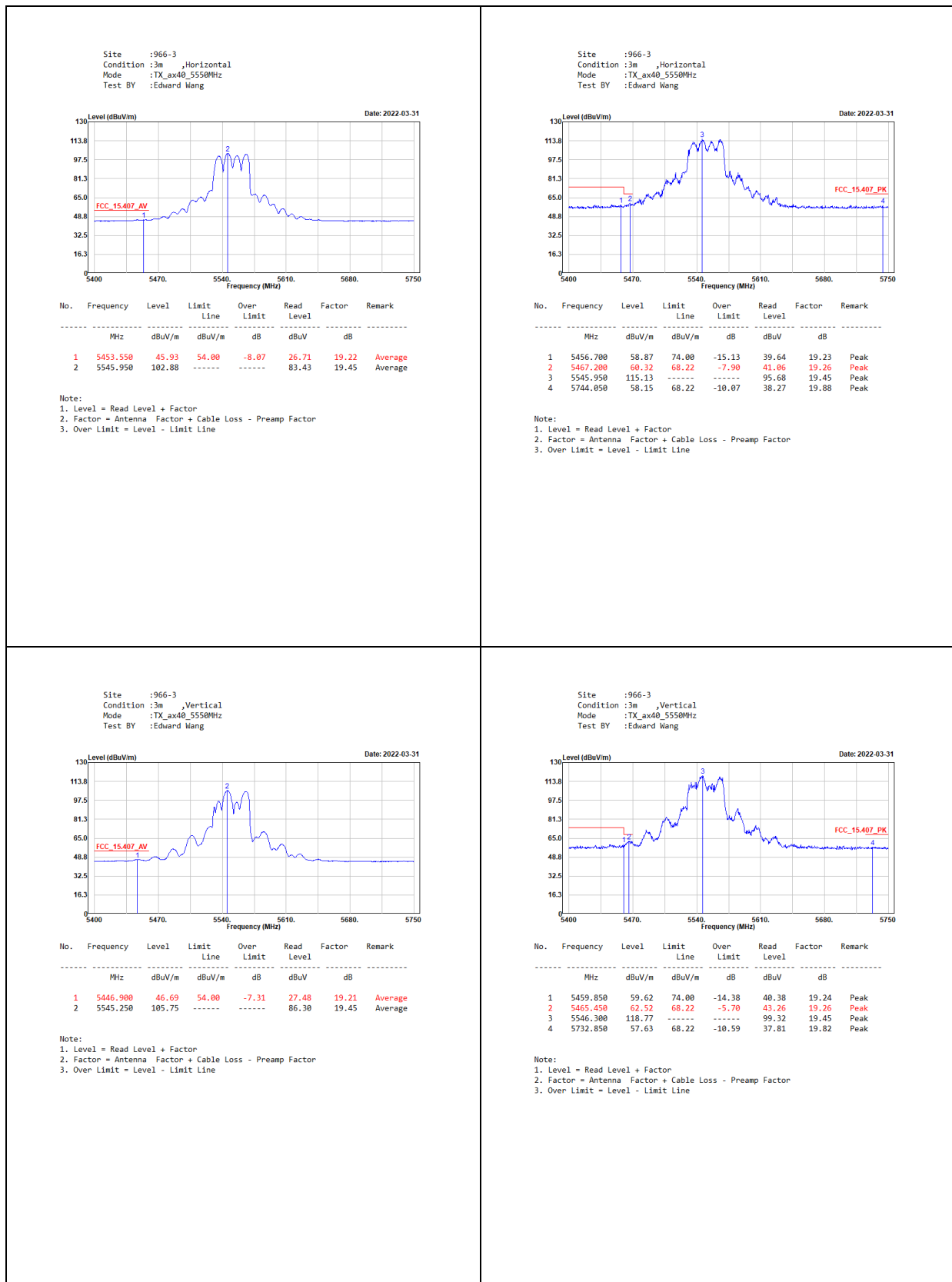
Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5510MHz
Test BY :Edward Wang

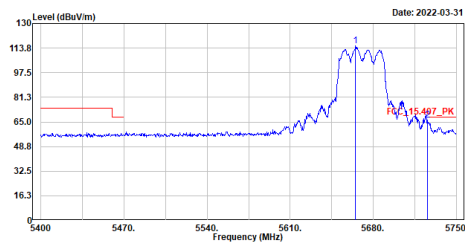


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5454.250	64.51	74.00	-9.49	45.29	19.22	Peak
2	5468.250	68.16	68.22	-0.06	48.89	19.27	Peak
3	5509.200	114.37	-----	-----	94.98	19.39	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line



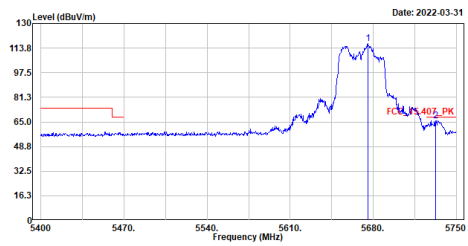
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5670MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5664.950	115.31	-----	-----	95.88	19.43	Peak
2	5725.850	66.22	68.22	-2.00	46.43	19.79	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

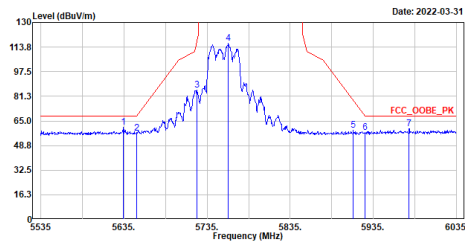
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5670MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5675.450	116.73	-----	-----	97.23	19.50	Peak
2	5732.500	65.87	68.22	-2.35	46.05	19.82	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

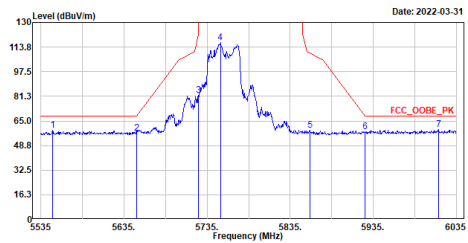
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax40_5755MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5634.500	61.05	68.20	-7.15	41.64	19.41	Peak
2	5650.000	56.96	68.21	-11.25	37.65	19.31	Peak
3	5722.500	85.47	116.50	-31.03	65.69	19.78	Peak
4	5760.500	116.15	-----	-----	96.24	19.91	Peak
5	5911.000	58.93	78.57	-19.64	38.50	20.43	Peak
6	5925.000	57.31	68.21	-10.90	36.84	20.47	Peak
7	5978.000	59.74	68.20	-8.46	39.16	20.58	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

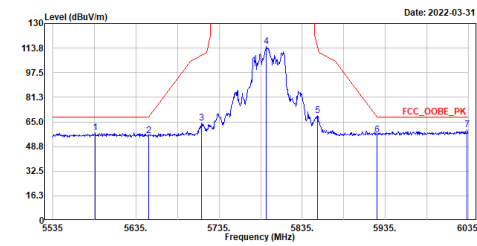
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax40_5755MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5549.500	58.64	68.20	-9.56	39.18	19.46	Peak
2	5650.000	57.14	68.21	-11.07	37.83	19.31	Peak
3	5724.500	81.81	121.06	-39.25	62.02	19.79	Peak
4	5751.000	116.55	-----	-----	96.65	19.90	Peak
5	5858.500	58.68	109.82	-51.14	38.57	20.11	Peak
6	5925.000	57.87	68.21	-10.34	37.40	20.47	Peak
7	6013.500	59.33	68.20	-8.87	38.67	20.66	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax00_5795MHz
Test BY :Edward Wang

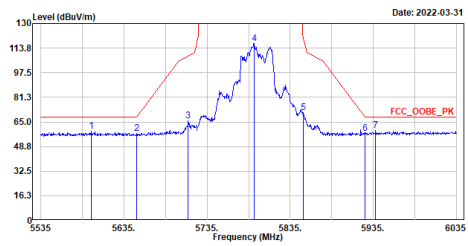


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5586.000	58.01	68.20	-10.19	38.42	19.59	Peak
2	5650.000	55.83	68.21	-12.38	36.52	19.31	Peak
3	5714.000	64.02	109.12	-45.10	44.29	19.73	Peak
4	5792.000	114.75	-----	-----	94.79	19.96	Peak
5	5853.500	68.96	114.22	-45.26	48.88	20.08	Peak
6	5925.000	56.42	68.21	-11.79	35.95	20.47	Peak
7	6033.500	59.66	68.20	-8.54	38.92	20.74	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax00_5795MHz
Test BY :Edward Wang

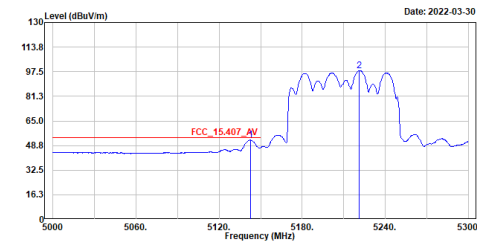


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5596.000	58.78	68.20	-9.42	39.15	19.63	Peak
2	5650.000	57.60	68.21	-10.61	38.29	19.31	Peak
3	5712.500	65.88	108.70	-42.82	46.16	19.72	Peak
4	5791.500	116.56	-----	-----	96.60	19.96	Peak
5	5850.500	70.91	121.06	-50.15	50.85	20.06	Peak
6	5925.000	57.28	68.21	-10.93	36.81	20.47	Peak
7	5938.000	59.14	68.20	-9.06	38.63	20.51	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax00_5210MHz
Test BY :Edward Wang

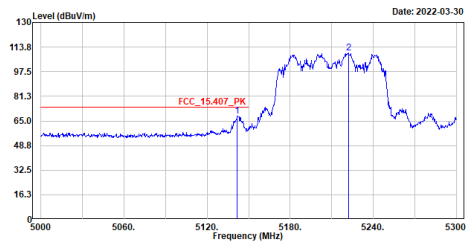


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5142.800	52.49	54.00	-1.51	34.10	18.39	Average
2	5221.400	98.27	-----	-----	79.54	18.73	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax00_5210MHz
Test BY :Edward Wang

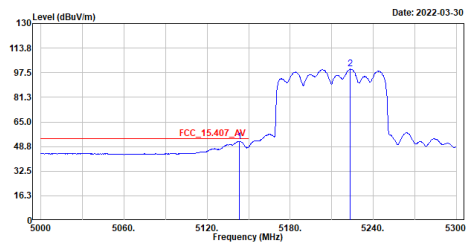


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5141.900	68.27	74.00	-5.73	49.89	18.38	Peak
2	5222.000	109.99	-----	-----	91.26	18.73	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax80_5210MHz
Test BY :Edward Wang

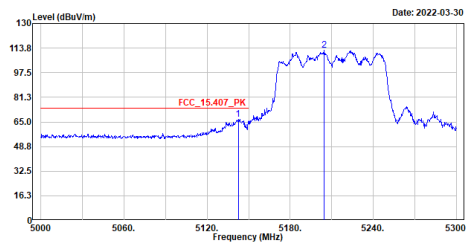


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5143.400	52.22	54.00	-1.78	33.83	18.39	Average
2	5223.500	99.94	-----	-----	81.20	18.74	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax80_5210MHz
Test BY :Edward Wang

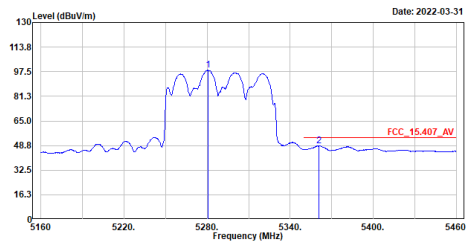


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5142.500	66.75	74.00	-7.25	48.36	18.39	Peak
2	5204.300	112.32	-----	-----	93.70	18.62	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax80_5290MHz
Test BY :Edward Wang

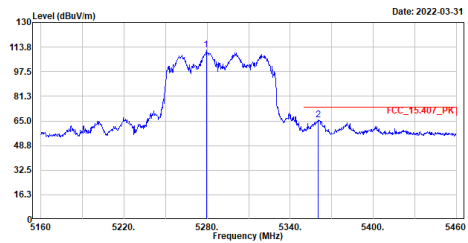


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5280.600	98.40	-----	-----	79.35	19.05	Average
2	5360.700	48.47	54.00	-5.53	29.39	19.08	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax80_5290MHz
Test BY :Edward Wang

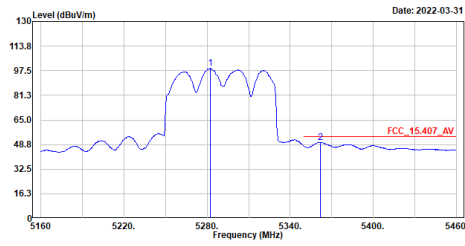


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5279.400	111.66	-----	-----	92.61	19.05	Peak
2	5360.400	65.69	74.00	-8.31	46.61	19.08	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax80_5290MHz
Test BY :Edward Wang

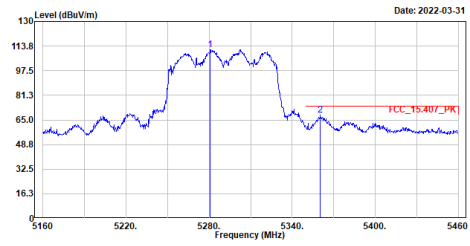


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5282.400	98.95	-----	-----	79.89	19.06	Average
2	5361.600	50.16	54.00	-3.84	31.06	19.10	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax80_5290MHz
Test BY :Edward Wang

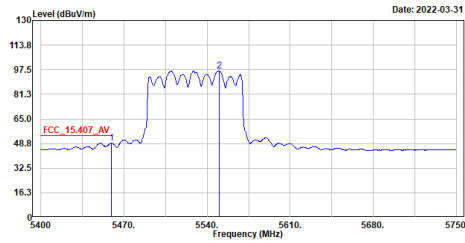


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5280.900	111.52	-----	-----	92.47	19.05	Peak
2	5360.400	68.15	74.00	-5.85	49.07	19.08	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax80_5530MHz
Test BY :Edward Wang

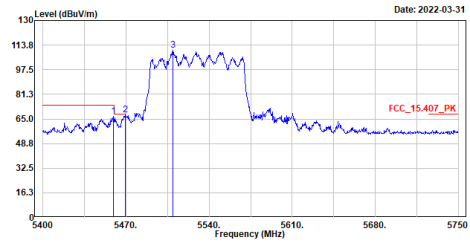


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5459.500	49.07	54.00	-4.93	29.83	19.24	Average
2	5550.150	96.77	-----	-----	77.31	19.46	Average

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax80_5530MHz
Test BY :Edward Wang

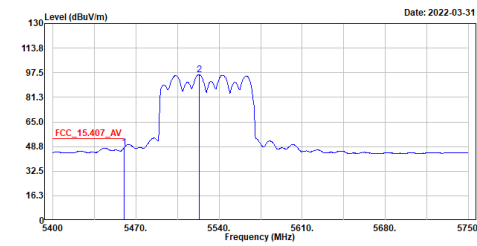


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5459.150	66.67	74.00	-7.33	47.43	19.24	Peak
2	5469.650	67.88	68.22	-0.34	48.60	19.28	Peak
3	5509.550	110.22	-----	-----	90.83	19.39	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

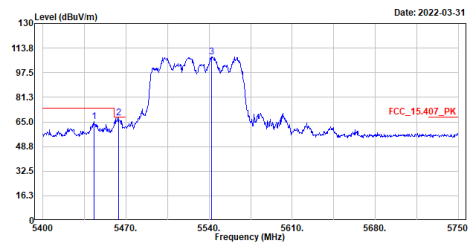
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax80_5530MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5459.850	48.05	54.00	-5.95	28.81	19.24	Average
2	5523.200	96.22	-----	-----	76.80	19.42	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

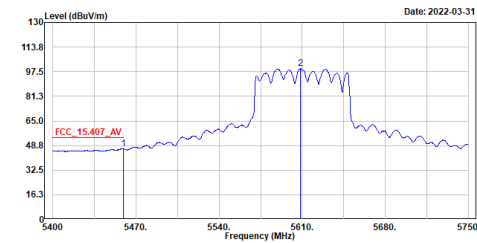
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax80_5530MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5443.050	65.34	74.00	-8.66	46.11	19.23	Peak
2	5463.700	67.82	68.22	-0.40	48.56	19.26	Peak
3	5542.100	108.07	-----	-----	88.62	19.45	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

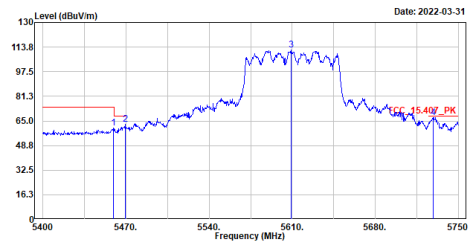
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax80_5610MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5459.500	46.50	54.00	-7.50	27.26	19.24	Average
2	5608.600	99.72	-----	-----	80.14	19.58	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

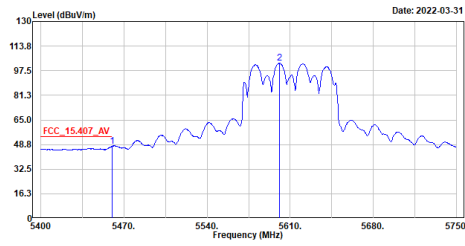
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax80_5610MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5459.150	60.41	74.00	-13.59	41.17	19.24	Peak
2	5469.300	62.58	68.22	-5.64	43.31	19.27	Peak
3	5609.300	111.90	-----	-----	92.32	19.58	Peak
4	5728.650	67.04	68.22	-1.18	47.24	19.80	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

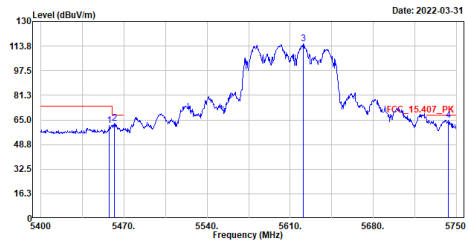
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax80_5610MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5459.850	47.58	54.00	-6.42	28.34	19.24	Average
2	5601.250	102.35	-----	-----	82.72	19.63	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

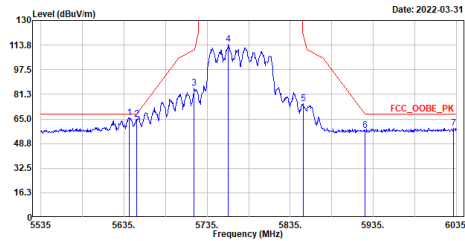
Site :966-3
Condition :3m ,Vertical
Mode :TX_ax80_5610MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5457.750	61.41	74.00	-12.59	42.17	19.24	Peak
2	5461.950	62.75	68.22	-5.47	43.50	19.25	Peak
3	5621.200	115.37	-----	-----	95.87	19.50	Peak
4	5743.000	65.00	68.22	-3.22	45.13	19.87	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

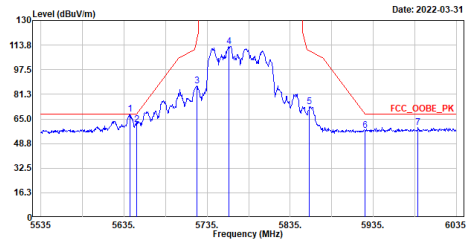
Site :966-3
Condition :3m ,Horizontal
Mode :TX_ax80_5775MHz
Test BY :Edward Wang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5641.000	65.83	68.20	-2.37	46.46	19.37	Peak
2	5650.000	64.80	68.21	-3.41	45.49	19.31	Peak
3	5719.500	85.29	110.66	-25.37	65.52	19.77	Peak
4	5760.500	114.15	-----	-----	94.24	19.91	Peak
5	5850.500	75.27	121.06	-45.79	55.21	20.06	Peak
6	5925.000	57.30	68.21	-10.91	36.83	20.47	Peak
7	6032.000	58.90	68.20	-9.30	38.16	20.74	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

Site :966-3
Condition :3m ,Vertical
Mode :TX_ax80_5775MHz
Test BY :Edward Wang

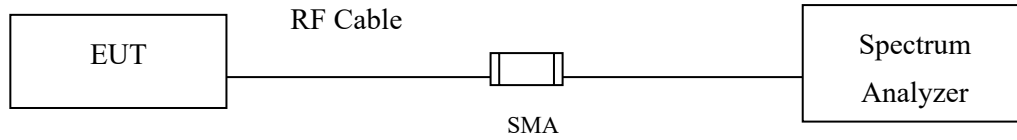


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	5642.000	68.13	68.20	-0.07	48.76	19.37	Peak
2	5650.000	61.16	68.21	-7.05	41.85	19.31	Peak
3	5722.500	86.67	116.50	-29.83	66.89	19.78	Peak
4	5761.000	113.02	-----	-----	93.11	19.91	Peak
5	5858.000	73.25	109.96	-36.71	53.14	20.11	Peak
6	5925.000	57.34	68.21	-10.87	36.87	20.47	Peak
7	5989.000	59.29	68.20	-8.91	38.71	20.58	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line

7. Occupied Bandwidth

7.1. Test Setup



7.2. Limits

For the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

7.3. .Test Procedure

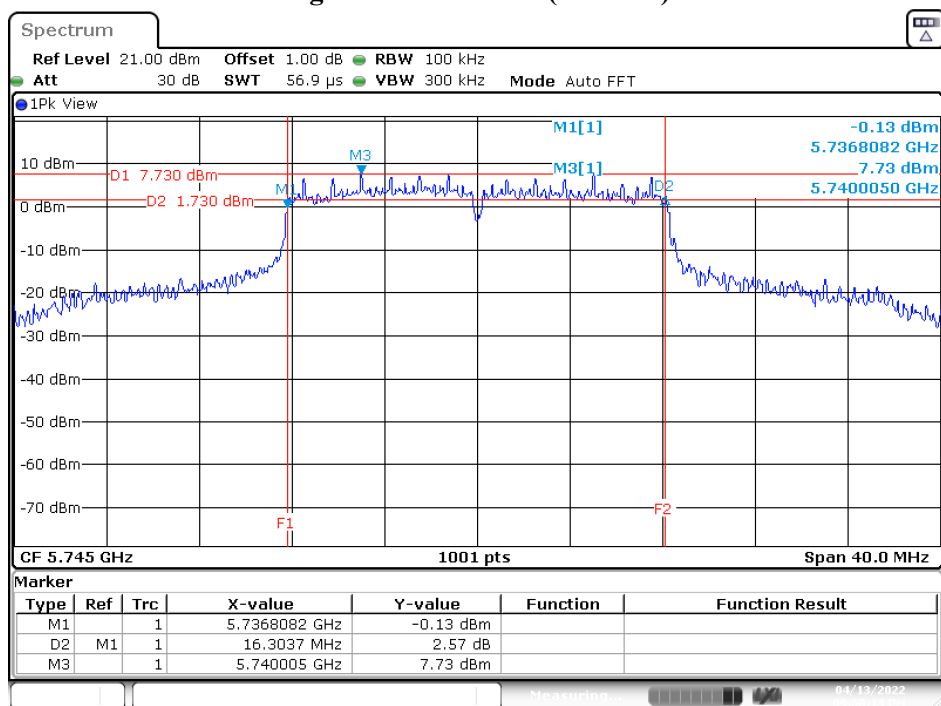
The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.4. Test Result of Occupied Bandwidth

Product : 11ax Cloud Managed AP
Test Item : Occupied Bandwidth Data
Test Mode : Mode 1: Transmit (802.11a-CDD)
Test Date : 2022/04/18

Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	A	5745	16304	>500	Pass
157	A	5785	16304	>500	Pass
165	A	5825	15704	>500	Pass
149	B	5745	15105	>500	Pass
157	B	5785	16024	>500	Pass
165	B	5825	16304	>500	Pass
149	C	5745	15704	>500	Pass
157	C	5785	15624	>500	Pass
165	C	5825	15425	>500	Pass
149	D	5745	16024	>500	Pass
157	D	5785	15664	>500	Pass
165	D	5825	15385	>500	Pass

Figure Channel 149: (Chain A)

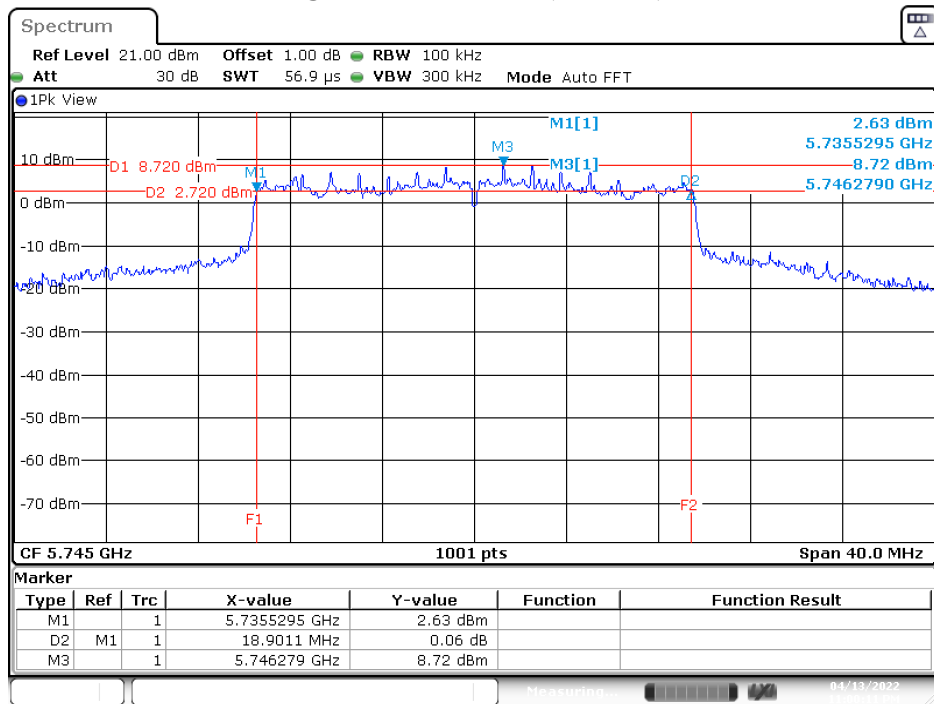


Date: 13.APR.2022 21:50:14

Product : 11ax Cloud Managed AP
Test Item : Occupied Bandwidth Data
Test Mode : Mode 2: Transmit (802.11ax-20BW-CDD)
Test Date : 2022/04/18

Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	A	5745	18661	>500	Pass
157	A	5785	18062	>500	Pass
165	A	5825	18142	>500	Pass
149	B	5745	18901	>500	Pass
157	B	5785	18542	>500	Pass
165	B	5825	17982	>500	Pass
149	C	5745	18701	>500	Pass
157	C	5785	18102	>500	Pass
165	C	5825	17862	>500	Pass
149	D	5745	16144	>500	Pass
157	D	5785	18661	>500	Pass
165	D	5825	18861	>500	Pass

Figure Channel 149: (Chain B)

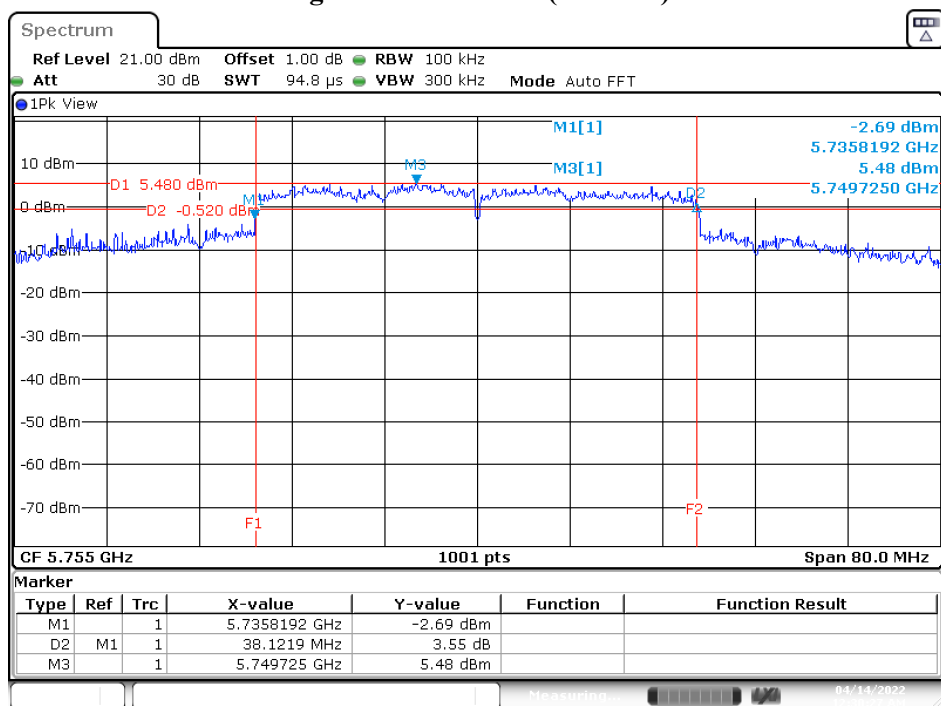


Date: 13.APR.2022 23:00:12

Product : 11ax Cloud Managed AP
Test Item : Occupied Bandwidth Data
Test Mode : Mode 3: Transmit (802.11ax-40BW-CDD)
Test Date : 2022/04/18

Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	A	5755	37802	>500	Pass
159	A	5795	38122	>500	Pass
151	B	5755	38122	>500	Pass
159	B	5795	37562	>500	Pass
151	C	5755	37163	>500	Pass
159	C	5795	38042	>500	Pass
151	D	5755	35964	>500	Pass
159	D	5795	36923	>500	Pass

Figure Channel 151: (Chain B)

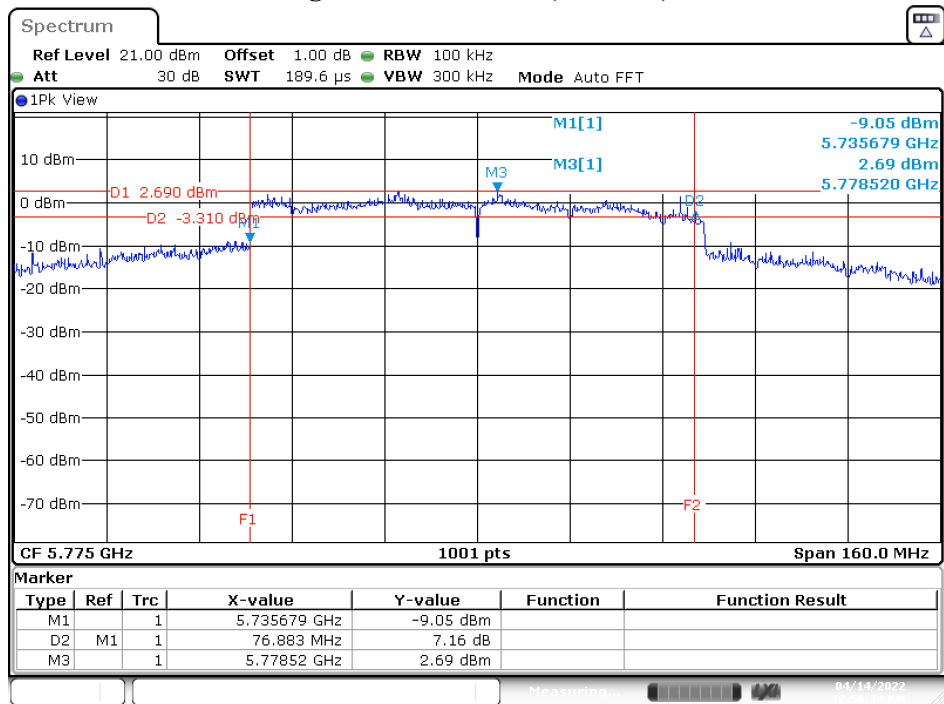


Date: 14.APR.2022 00:30:27

Product : 11ax Cloud Managed AP
Test Item : Occupied Bandwidth Data
Test Mode : Mode 4: Transmit (802.11ax-80BW-CDD)
Test Date : 2022/04/18

Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	A	5775	76404	>500	Pass
155	B	5775	67772	>500	Pass
155	C	5775	76244	>500	Pass
155	D	5775	76883	>500	Pass

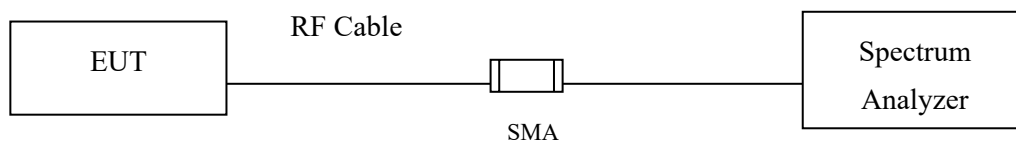
Figure Channel 155: (Chain D)



Date: 14.APR.2022 00:56:34

8. Duty Cycle

8.1. Test Setup



8.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to U-NII test procedure of KDB789033 for compliance to FCC 47CFR 15.407 requirements.

8.3. Test Result of Duty Cycle

Product : 11ax Cloud Managed AP
Test Item : Duty Cycle
Test Mode : Transmit-CDD mode

Duty Cycle Formula:

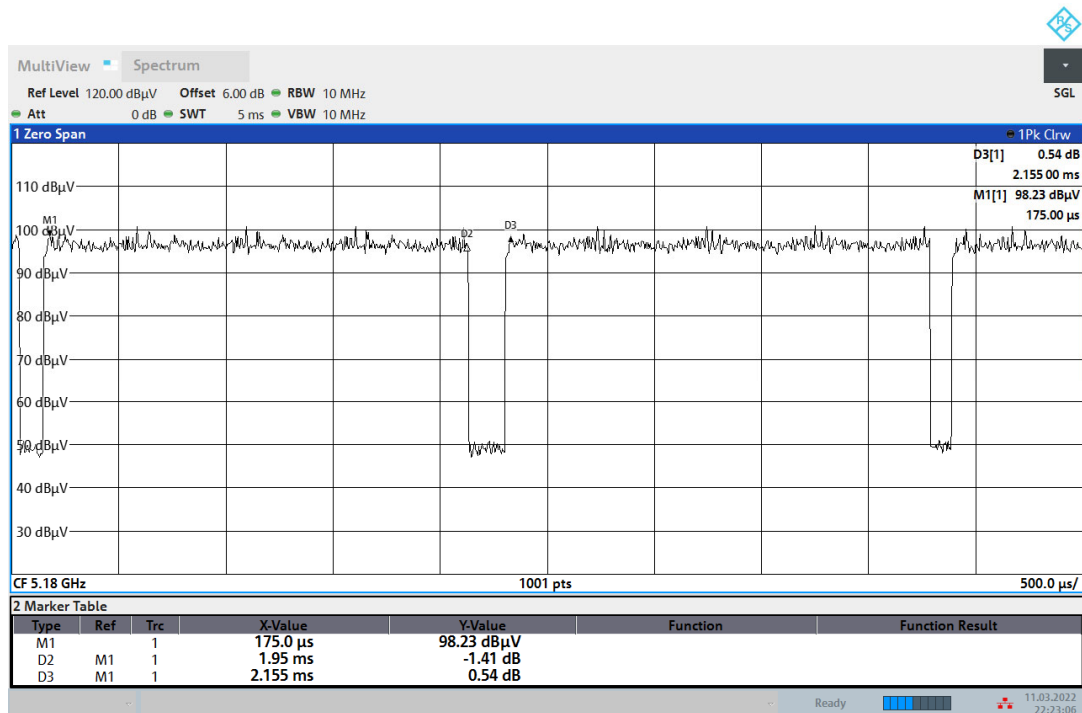
$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$

$\text{Duty Factor} = 10 \text{ Log } (1/\text{Duty Cycle})$

Results:

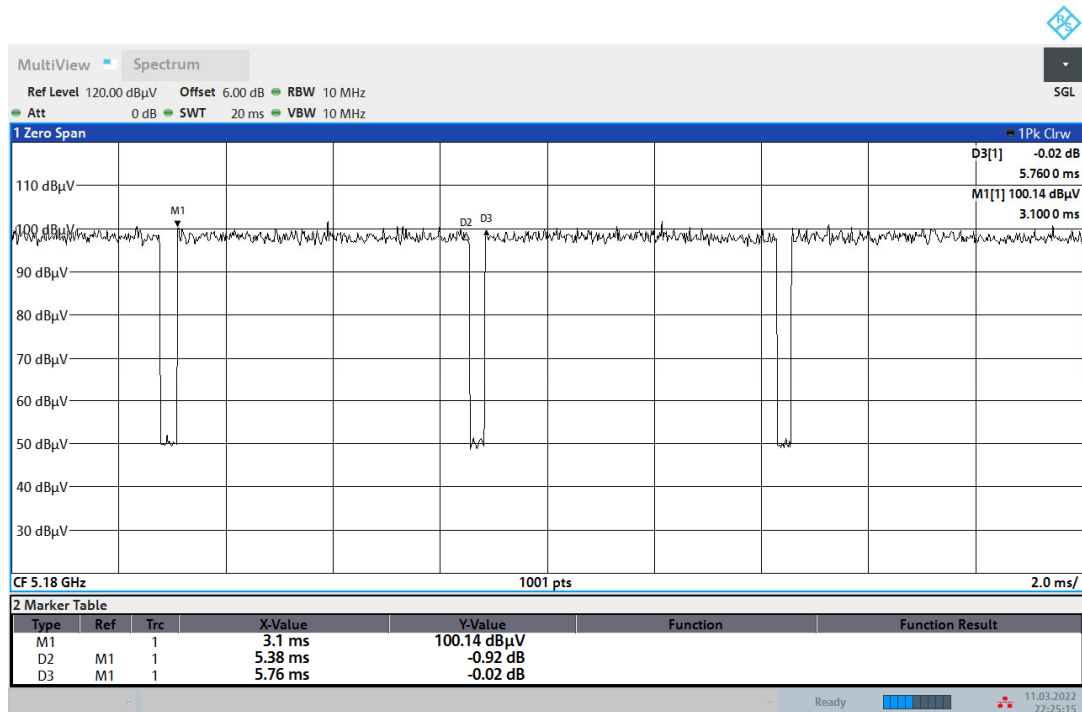
5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 a	1.9500	2.1550	90.49	0.43
802.11 ax20	5.3800	5.7600	93.40	0.30
802.11 ax40	5.4200	5.7400	94.43	0.25
802.11 ax80	5.4000	5.7800	93.43	0.30

802.11a



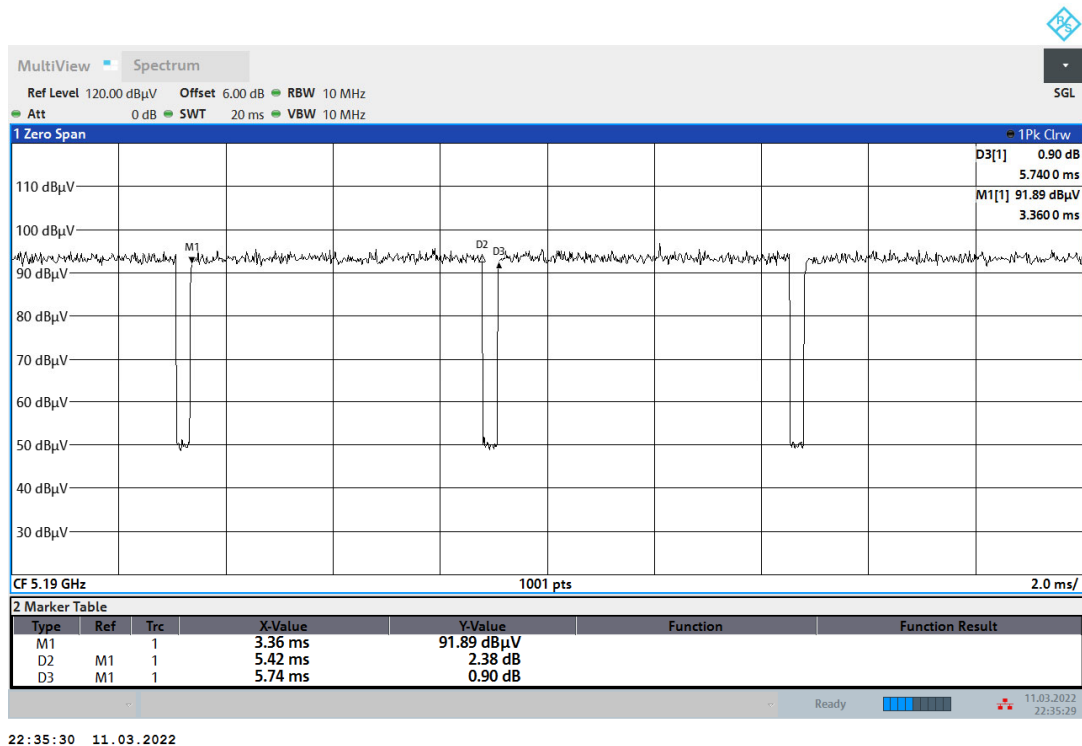
22:23:07 11.03.2022

802.11ax20

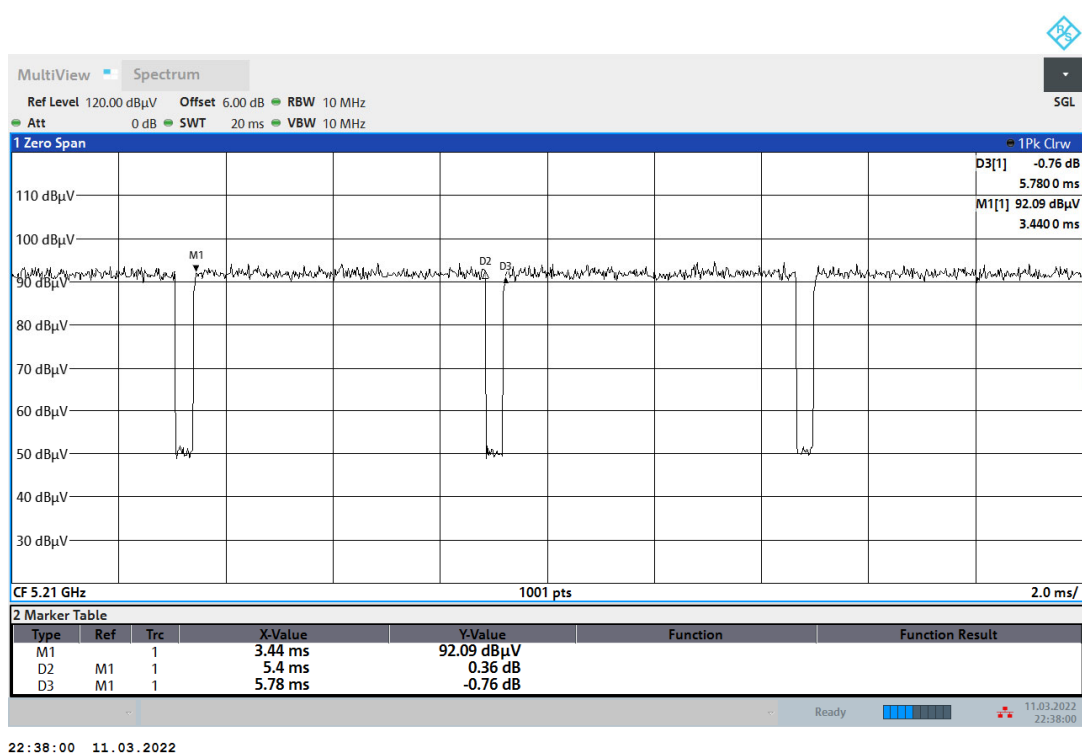


22:25:16 11.03.2022

802.11ax40



802.11ax80



9. EMI Reduction Method During Compliance Testing

No modification was made during testing.