

# FCC Test Report

Product Name : JP6S  
Model No. : P06SC, P06SA  
FCC ID : 2AZJJP6S

Applicant : Securus Technologies, LLC  
Address : 4000 International Parkway, Carrollton Texas, United States 75007

Date of Receipt : Jul. 08, 2021  
Issued Date : Nov. 24, 2021  
Report No. : 2170323R-E3032110123-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 of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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.

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# Test Report Certification



Product Name : JP6S  
Applicant : Securus Technologies, LLC  
Address : 4000 International Parkway, Carrollton Texas, United States 75007  
Manufacturer : Securus Technologies, LLC  
Address : 4000 International Parkway, Carrollton Texas, United States 75007  
Model No. : P06SC, P06SA  
FCC ID : 2AZJJP6S  
EUT Voltage : DC 5V (adapter)  
DC 3.7V (battery)  
Testing Voltage : AC 120V/60Hz  
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407  
ANSI C63.10: 2013  
Laboratory Name : Hsin Chu Laboratory  
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu  
County 310, Taiwan, R.O.C.  
TEL: +886-3-582-8001 / FAX: +886-3-582-8958  
Test Result : Complied

Documented By :



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(Amelia Wu / Project Specialist)

Approved By :



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(Louis Hsu / Deputy Manager)

The test results relate only to the samples tested.

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## Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Nov. 24, 2021

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## 1. General Information

### 1.1. EUT Description

Product Name	JP6S		
Model No.	P06SC, P06SA		
Frequency Range / Channel Number	IEEE 802.11a / IEEE 802.11n (20 MHz)	5180 ~ 5240 MHz / 4 Channels	5745 ~ 5825 MHz / 5 Channels
	IEEE 802.11n (40 MHz)	5190 ~ 5230 MHz / 2 Channels	5755 ~ 5795 MHz / 2 Channels
Type of Modulation	IEEE 802.11a/n	OFDM	
Data Rate	IEEE 802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0 ~ MCS 7 and bandwidth defined in 802.11n	

Accessories Information				
No.	Equipment Name	Brand Name	Model No.	Rating
1	Lithium Ion Battery	DongGuan GanFeng	6494A0	DC 3.7V 8000mAh/29.6Wh

The difference for each model is shown as below:

EUT	Model No.	Description
1	P06SC (Main Model)	The main model is P06SC with camera design. For the variant model P06SA, the Camera, FPC connector, and related RCs are not populated.
2	P06SA (Variant Model)	

Antenna Information				
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)
0	PCI Private Limited	SRPC000201	PCB	2.38

#### IEEE 802.11a & IEEE 802.11n (20 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	-	-	-	-	-	-

#### IEEE 802.11n (40 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz	159	5795 MHz

Note:

1. Regards to the frequency band operation; the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.
2. The above EUT information is declared by the manufacturer.

## 1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

Test Mode	Mode 1: Transmit
-----------	------------------

Test Items	Test Mode	EUT	Modulation	Channel	Antenna	Result
AC Power Line Conducted Emission	Mode 1	1	11a	48	0	Pass
Emission Bandwidth	Mode 1	1	11a	36/44/48/149/157/165	0	Pass
			11n (20 MHz)	36/44/48/149/157/165	0	Pass
			11n (40 MHz)	38/46/151/159	0	Pass
Maximum Conducted Output Power	Mode 1	1	11a	36/44/48/149/157/165	0	Pass
			11n (20 MHz)	36/44/48/149/157/165	0	Pass
			11n (40 MHz)	38/46/151/159	0	Pass
Maximum Power Spectral Density	Mode 1	1	11a	36/44/48/149/157/165	0	Pass
			11n (20 MHz)	36/44/48/149/157/165	0	Pass
			11n (40 MHz)	38/46/151/159	0	Pass
Radiated Emission Below 1 GHz	Mode 1	1/2	11a	48	0	Pass
Radiated Emission Above 1 GHz	Mode 1	1	11a	36/44/48/149/157/165	0	Pass
			11n (20 MHz)	36/44/48/149/157/165	0	Pass
			11n (40 MHz)	38/46/151/159	0	Pass
		2	11a	48	0	Pass
Radiated Emission Band Edge	Mode 1	1	11a	36/44/48/149/157/165	0	Pass
			11n (20 MHz)	36/44/48/149/157/165	0	Pass
			11n (40 MHz)	38/46/151/159	0	Pass
		2	11a	48	0	Pass

Note:

- Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- The worst case of data rate for 802.11a is 6 Mbps, for 802.11n (20 MHz)/802.11n (40 MHz) are MCS 0, Nss1.
- For below 1 GHz radiated emission and AC Power Line Conducted Emission have performed all modes of operation were investigated and the worst-case emissions are reported.
- The EUT was performed at X axis, Y axis and Z axis position for radiated emission and band edge tests. The worst case was found at Z axis, so the measurement will follow this same test configuration.
- The EUT 2 was performed radiated emission and radiated emission band edge test only, and measurement was followed the worst case of EUT 1.

### 1.3. Comments and Remarks

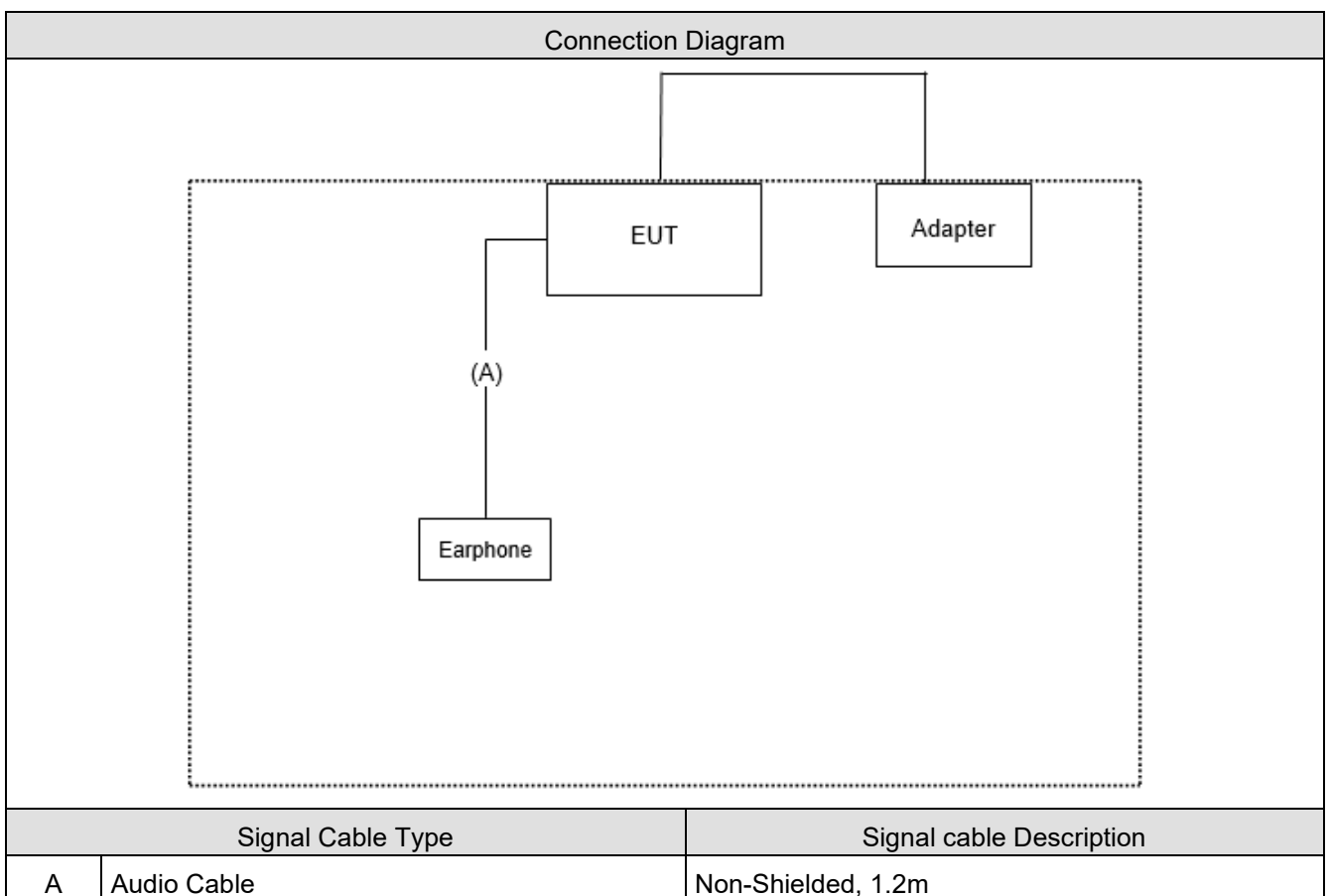
The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

### 1.4. Tested System Details

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

	Product	Manufacturer	Model No.	Serial No.
1	Adapter	Shenzhen Mi Delan Electronic Technology Co., Ltd.	AS015C-0502500UC	N/A
2	Earphone	Shenzhen Huaxunxing Technology Co., Ltd.	HX-20208002	N/A

### 1.5. Configuration of tested System



### 1.6. EUT Operation of during Test

1	Set the EUT as shown.
2	Start engineering mode
3	Configure test mode, test channel and data rate.
4	Let the EUT start sending transmit continuously
5	Verify that device is working properly.



## 1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	EUT	Actually	Tested by	Test Date	Test Site
Temperature (°C)	AC Power Line Conducted	1	25.6	Lion Wang	2021/10/8	SR2-H
Humidity (%RH)	Emission		55.7			
Temperature (°C)	99% & 26dB & DTS	1	23	Elwin Lin	2021/9/16	SR12-H
Humidity (%RH)	Bandwidth		61			
Temperature (°C)	Maximum Conducted Output	1	23.5	Elwin Lin	2021/9/6	SR12-H
Humidity (%RH)	Power		60			
Temperature (°C)	Peak Power Spectral Density	1	23	Elwin Lin	2021/9/16	SR12-H
Humidity (%RH)			61			
Temperature (°C)	Radiated Emission	1	24.6	Cyril Chen	2021/9/14	CB2-H
Humidity (%RH)			62.6			
Temperature (°C)	Radiated Emission	2	23.5 ~ 24.1	Getaz Yang	2021/11/3 ~ 2021/11/4	CB2-H
Humidity (%RH)			61 ~ 64			
Temperature (°C)	Radiated Emission Band	1	23.8	Cyril Chen	2021/9/13	CB2-H
Humidity (%RH)			63.7			
Temperature (°C)	Edge	2	23.5 ~ 24.1	Getaz Yang	2021/11/3 ~ 2021/11/4	CB2-H
Humidity (%RH)			61 ~ 64			

Note: Test site information refers to Laboratory Information.

**USA** : **FCC Registration Number: TW3024**  
**Canada** **CAB identifier : TW3024**

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-582-8001 2. +886-3-582-8001
Fax number	1. +886-3-582-8958 2. +886-3-582-8958
E mail address	<a href="mailto:info.tw@dekra.com">info.tw@dekra.com</a>
Website	<a href="http://www.dekra.com.tw">http://www.dekra.com.tw</a>
Note: Test site number for address 1 includes SR2-H. Test site number for address 2 includes CB2-H, CB3-H, CB4-H, SR10-H and SR12-H.	

## 1.8. List of Test Equipment

### SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2020/12/24	2021/12/23
Test Receiver	R&S	ESCS 30	836858/022	2021/02/22	2022/02/21
LISN	R&S	ENV216	100092	2021/06/08	2022/06/07
Coaxial Cable(9 m)	Harbour	RG-400	SR2-H	2021/08/15	2022/08/14
DEKRA Testing System	DEKRA	Version 2.0	SR2-H	NA	NA

### SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2020/11/30	2021/11/29
Pulse Power Sensor	Anritsu	MA2411B	1531043	2020/11/30	2021/11/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Pulse Power Sensor	Anritsu	MA2411B	1531044	2020/11/30	2021/11/29
Power Meter	Keysight	8990B	MY51000248	2021/05/21	2022/05/20
Power Sensor	Keysight	N1923A	MY57240005	2021/05/21	2022/05/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2021/05/14	2022/05/13
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Spectrum Analyzer	Agilent	N9010A	US47140172	2021/05/28	2022/05/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30

### CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal Analyzer	R&S	FSVA40	101455	2021/10/21	2022/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30
Signal Analyzer	R&S	FSVA40	101435	2021/06/04	2022/06/03
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1272	2021/08/20	2022/08/19
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2021/05/17	2022/05/16
Horn Antenna	Schwarzbeck	BBHA 9170	202	2020/12/16	2021/12/15
Pre-Amplifier	EMCI	EMC01820I	980365	2021/05/28	2022/05/27
Pre-Amplifier	EMEC	EM01G18GA	060741	2021/07/02	2022/07/01
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2021/08/17	2022/08/16
Radiated Software	AUDIX	e3 V9	CB2-H	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

## 1.9. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
AC Power Line Conducted Emission	± 2.10 dB
99% & 26dB & DTS Bandwidth	± 636.54 Hz
Maximum Conducted Output Power	± 1.16 dB
Maximum Power Spectral Density	± 1.60 dB
Radiated Emission	± 3.25 dB below 1 GHz ± 3.32 dB above 1 GHz
Radiated Emission Band Edge	± 3.32 dB above 1 GHz

### 1.10. Duty Cycle

Modulation	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	1.380	1.421	97.11	0.127	0.725
802.11n (20 MHz)	1.290	1.341	96.20	0.168	0.775
802.11n (40 MHz)	0.640	0.696	91.95	0.364	1.563

Note: Offset = 20 log (1/duty cycle)

According to KDB 789033. If power averaging (rms) mode was used in step (iv) above, the correction factor is 10 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels. If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.



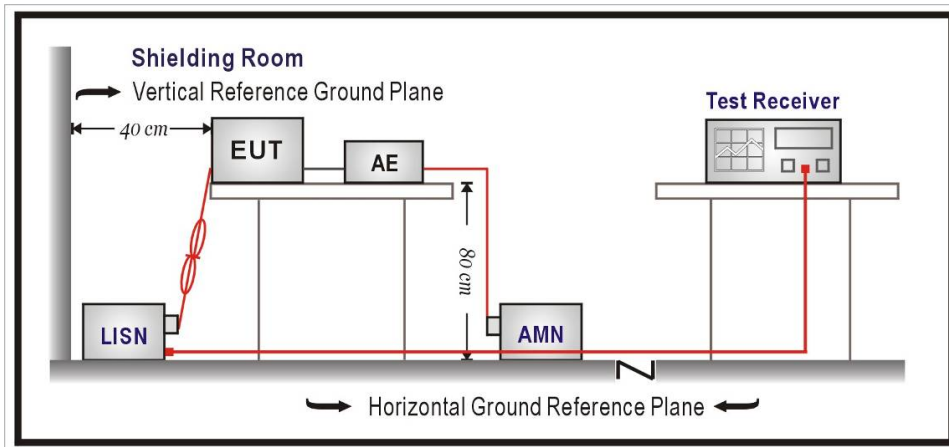
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## 2. Antenna Requirements

According to FCC 47CFR 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 3. AC Power Line Conducted Emission

#### 3.1. Test Setup



#### 3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

#### 3.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

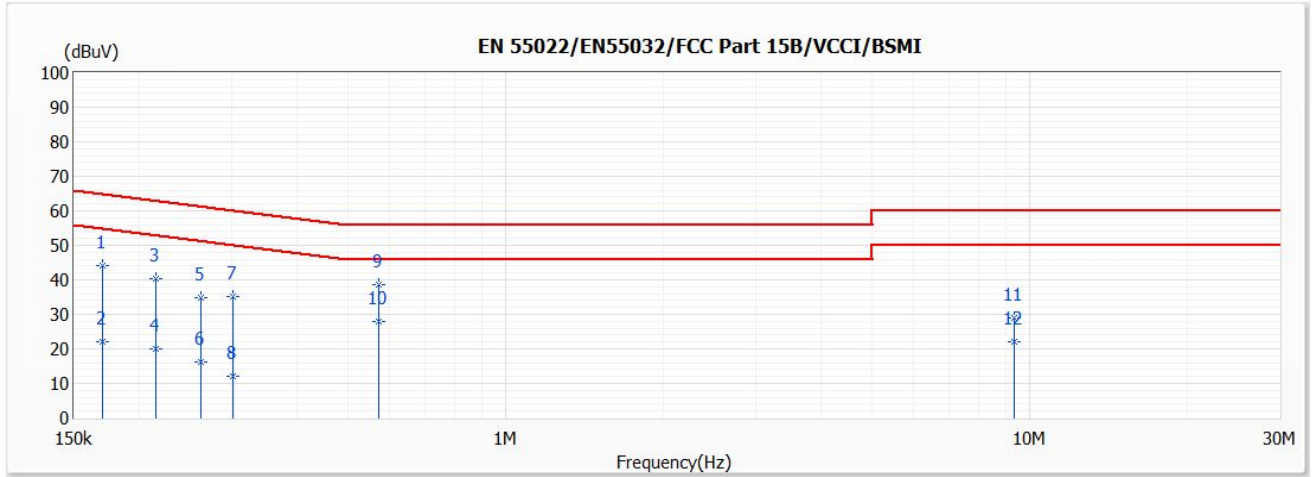
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

#### 3.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart E.

### 3.5. Test Result of AC Power Line Conducted Emission

Test Mode	Mode 1: Transmit	Phase	Line
Test Condition	802.11a / Ant. 0 / 5240 MHz		

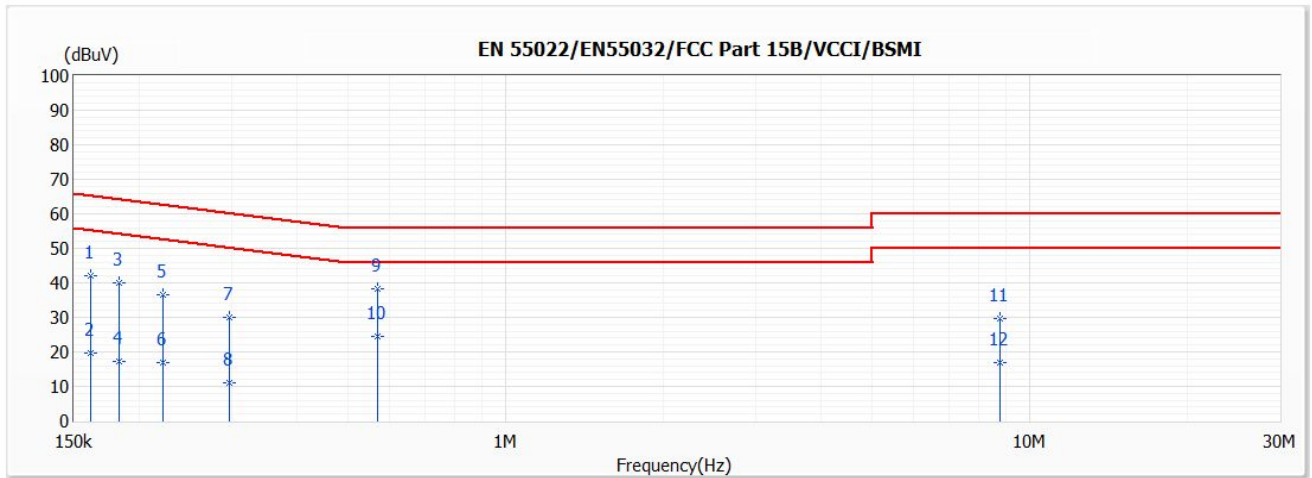


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.170	44.06	64.96	-20.90	34.43	9.63	QP
2	0.170	21.99	54.96	-32.97	12.36	9.63	AV
3	0.215	40.33	63.03	-22.70	30.69	9.64	QP
4	0.215	19.90	53.03	-33.13	10.26	9.64	AV
5	0.262	34.74	61.37	-26.63	25.10	9.64	QP
6	0.262	16.31	51.37	-35.06	6.67	9.64	AV
7	0.302	35.09	60.18	-25.09	25.44	9.65	QP
8	0.302	12.09	50.18	-38.09	2.44	9.65	AV
*9	0.572	38.47	56.00	-17.53	28.79	9.68	QP
10	0.572	27.98	46.00	-18.02	18.30	9.68	AV
11	9.325	28.86	60.00	-31.14	18.78	10.08	QP
12	9.325	22.08	50.00	-27.92	12.00	10.08	AV

Remark:

1. "\*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 1: Transmit	Phase	Neutral
Test Condition	802.11a / Ant. 0 / 5240 MHz		



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.162	42.23	65.37	-23.14	32.59	9.64	QP
2	0.162	19.81	55.37	-35.56	10.17	9.64	AV
3	0.183	39.99	64.35	-24.36	30.36	9.63	QP
4	0.183	17.35	54.35	-37.00	7.72	9.63	AV
5	0.222	36.60	62.76	-26.16	26.96	9.64	QP
6	0.222	16.97	52.76	-35.79	7.33	9.64	AV
7	0.297	30.08	60.32	-30.24	20.43	9.65	QP
8	0.297	11.09	50.32	-39.23	1.44	9.65	AV
*9	0.568	38.43	56.00	-17.57	28.74	9.69	QP
10	0.568	24.32	46.00	-21.68	14.63	9.69	AV
11	8.751	29.51	60.00	-30.49	19.41	10.10	QP
12	8.751	16.90	50.00	-33.10	6.80	10.10	AV

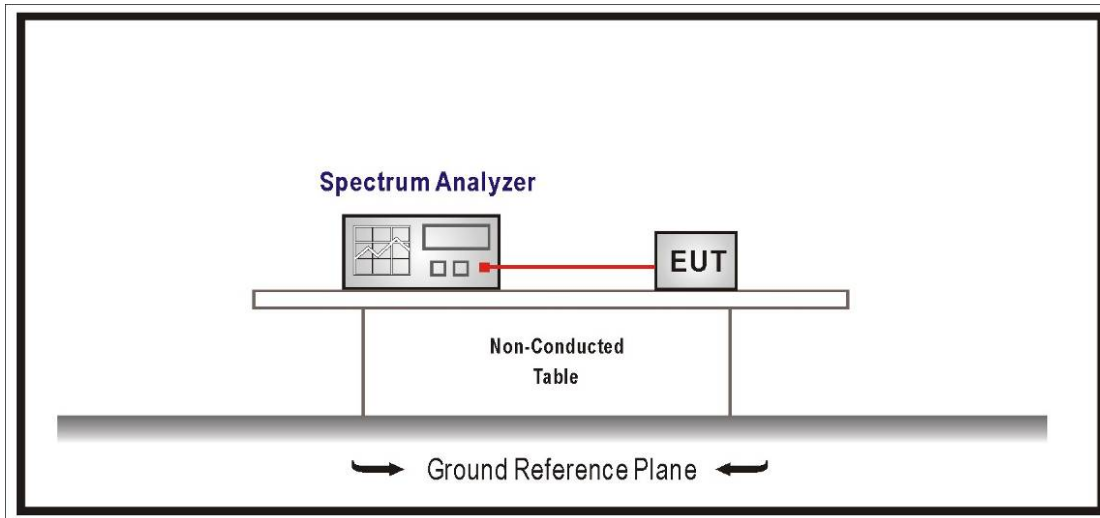
Remark:

1. "\*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.



## 4. Emission Bandwidth

### 4.1. Test Setup



### 4.2. Test Limit

99% & 26dB Bandwidth : No Required

6dB Bandwidth  $\geq$  500kHz

### 4.3. Test Procedure

99% & 26dB Bandwidth :

The EUT was tested according to U-NII test procedure of KDB 789033.D02 V02r01

Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.

DTS Bandwidth :

Set RBW = 100kHz, VBW  $\geq$  3xRBW, Sweep time=Auto, Set Peak detector.

### 4.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart E.

#### 4.5. Test Result of Emission Bandwidth

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	
					99% & 26dB	
802.11a	36	5180	17.384	20.260	-	
	44	5220	17.502	20.380	-	
	48	5240	17.223	20.220	-	
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	
					99%	DTS
802.11a	149	5745	17.422	16.304	-	$\geq 0.50$
	157	5785	17.423	16.344	-	$\geq 0.50$
	165	5825	17.383	16.304	-	$\geq 0.50$

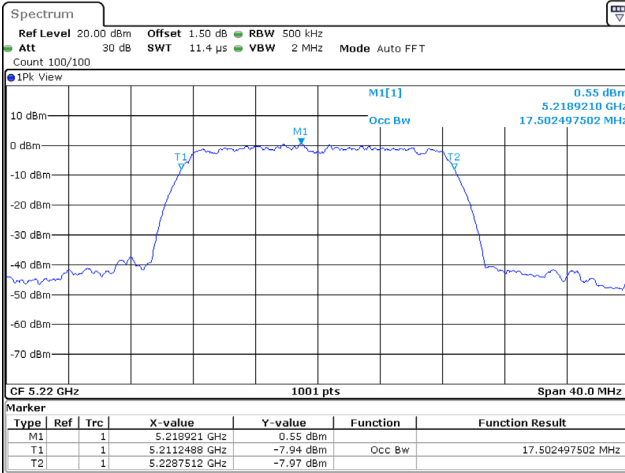
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	
					99% & 26dB	
802.11n (20 MHz)	36	5180	18.262	20.500	-	
	44	5220	18.142	20.500	-	
	48	5240	18.142	20.500	-	
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	
					99%	DTS
802.11n (20 MHz)	149	5745	18.262	17.582		$\geq 0.50$
	157	5785	18.062	17.582	-	$\geq 0.50$
	165	5825	18.022	17.582	-	$\geq 0.50$

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	
					99% & 26dB	
802.11n (40 MHz)	38	5190	36.364	40.040	-	
	46	5230	36.284	40.200	-	
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	
					99%	DTS
802.11n (40 MHz)	151	5755	36.284	36.044	-	$\geq 0.50$
	159	5795	36.284	36.284	-	$\geq 0.50$

**For 99% Bandwidth:**

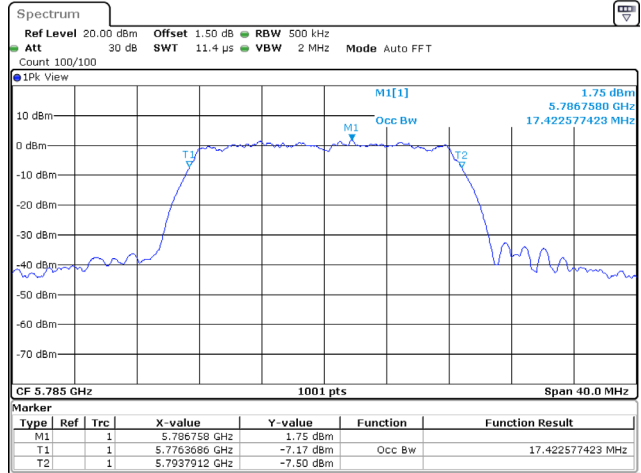
**Spectrum plot of worst value**

802.11a / Ant. 0 / 5220 MHz (U-NII-1)



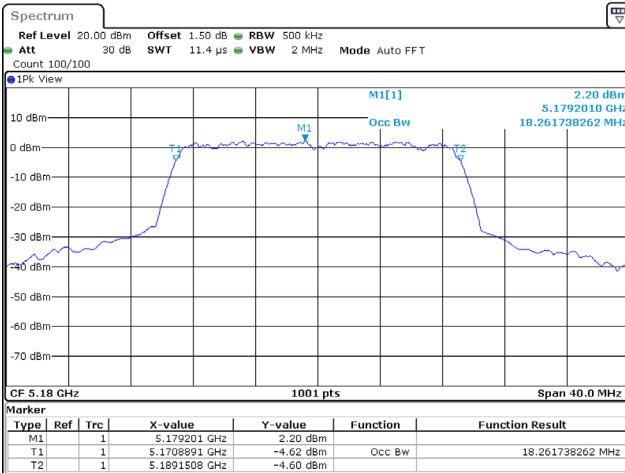
Date: 16.SEP.2021 03:01:52

802.11a / Ant. 0 / 5785 MHz (U-NII-3)



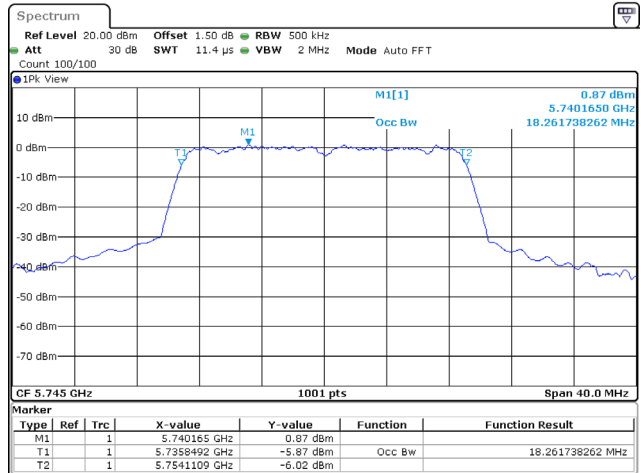
Date: 16.SEP.2021 03:15:41

802.11n (20 MHz) / Ant. 0 / 5180 MHz (U-NII-1)



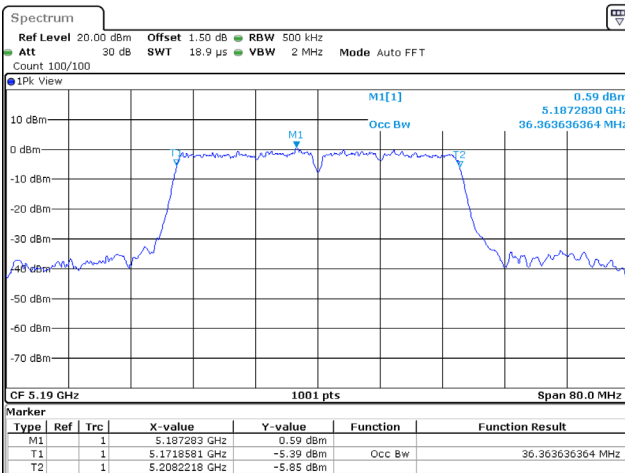
Date: 16.SEP.2021 03:21:39

802.11n (20 MHz) / Ant. 0 / 5745 MHz (U-NII-3)



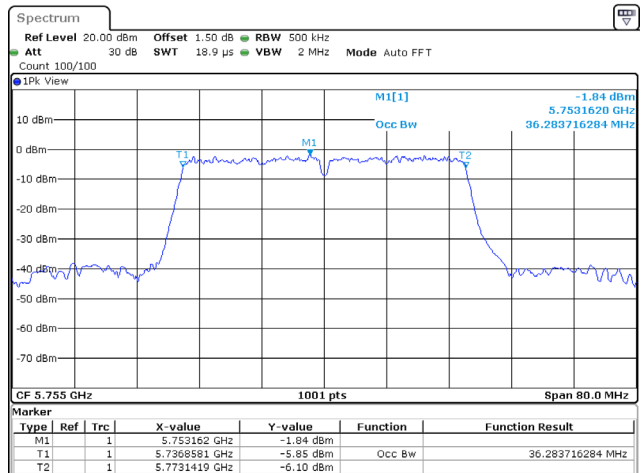
Date: 16.SEP.2021 03:36:37

802.11n (40 MHz) / Ant. 0 / 5190 MHz (U-NII-1)



Date: 16.SEP.2021 03:42:04

802.11n (40 MHz) / Ant. 0 / 5755 MHz (U-NII-3)

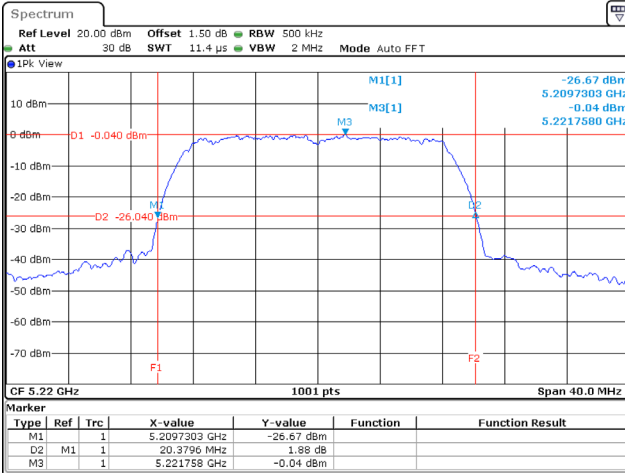


Date: 16.SEP.2021 03:59:09

**For 26dB Bandwidth:**

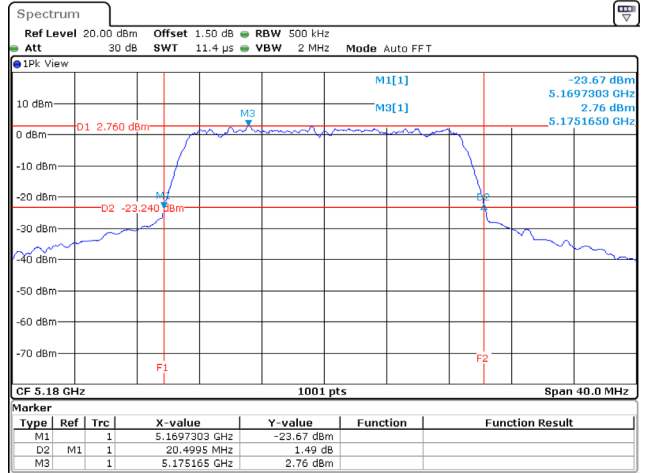
**Spectrum plot of maximum value**

802.11a / Ant. 0 / 5220 MHz



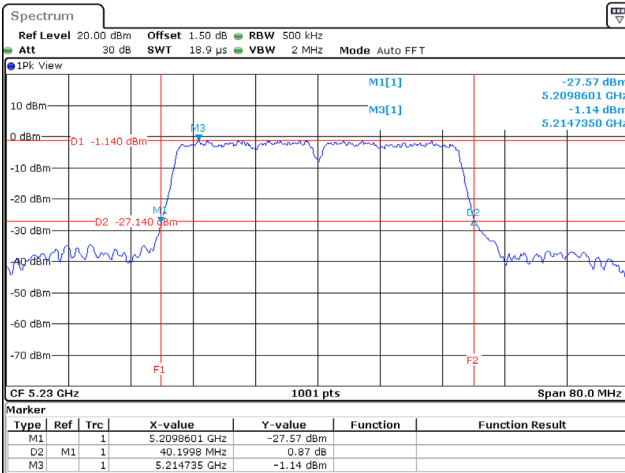
Date: 16.SEP.2021 03:01:43

802.11n (20 MHz) / Ant. 0 / 5180 MHz



Date: 16.SEP.2021 03:21:30

802.11n (40 MHz) / Ant. 0 / 5230 MHz

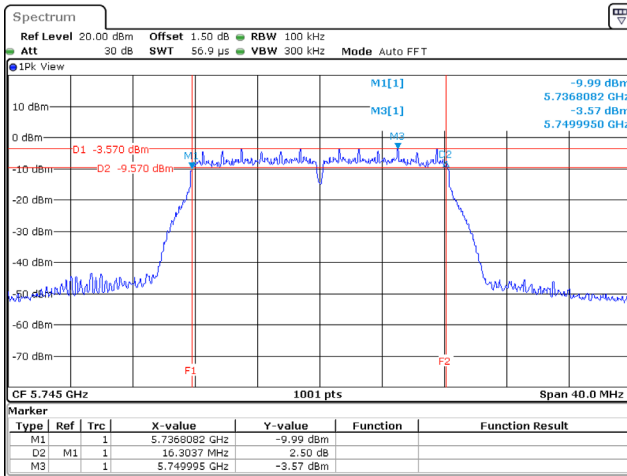


Date: 16.SEP.2021 03:43:22

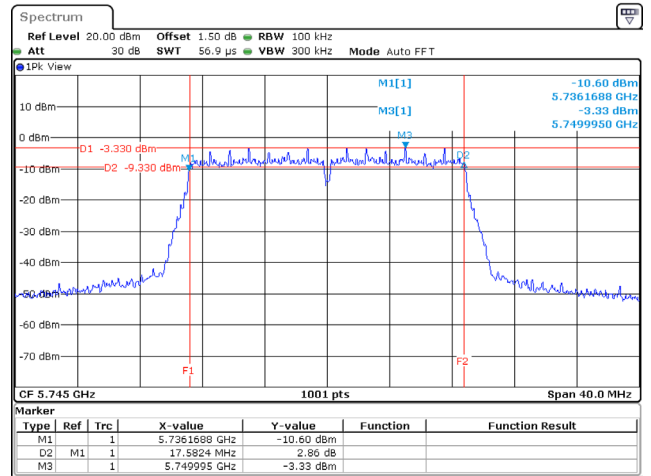
**For DTS Bandwidth:**

**Spectrum plot of worst value**

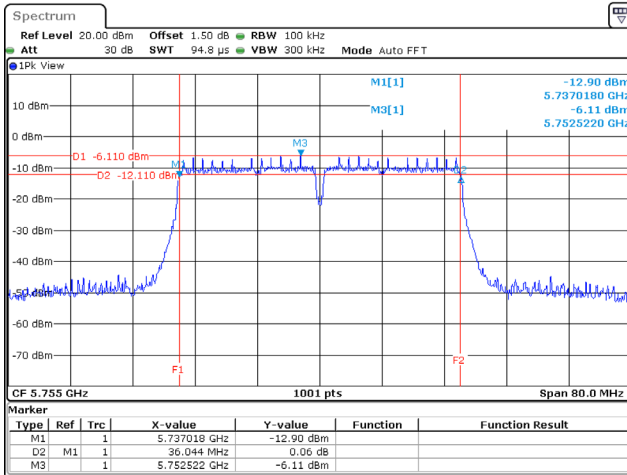
802.11a / Ant. 0 / 5745 MHz



802.11n (20 MHz) / Ant. 0 / 5745 MHz

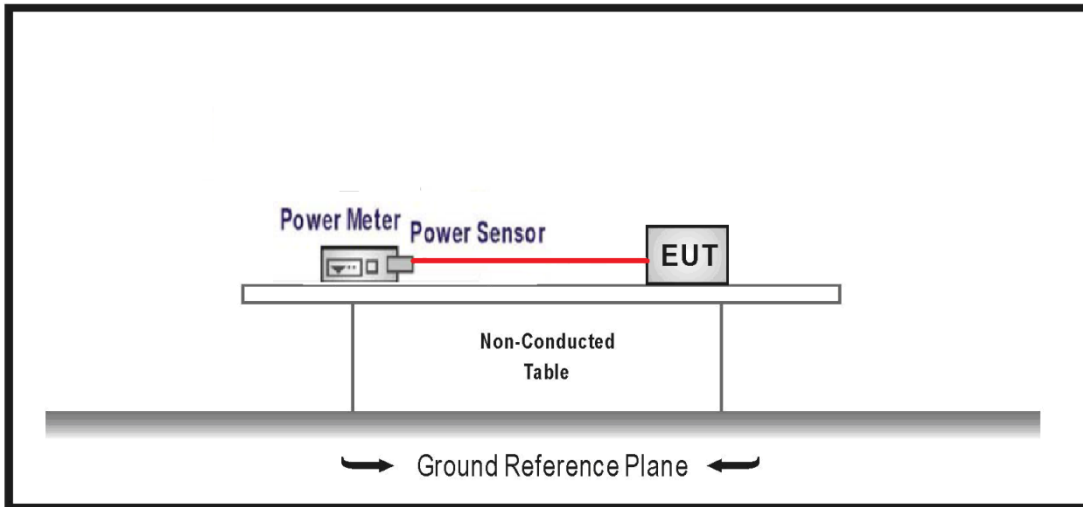


802.11n (40 MHz) / Ant. 0 / 5755 MHz



## 5. Maximum Conducted Output Power

### 5.1. Test Setup



### 5.2. Test Limit

1. For the band 5.15 ~ 5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi. For 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. The maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the band 5.25 ~ 5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725 ~ 5.850 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

### 5.3. Test Procedure

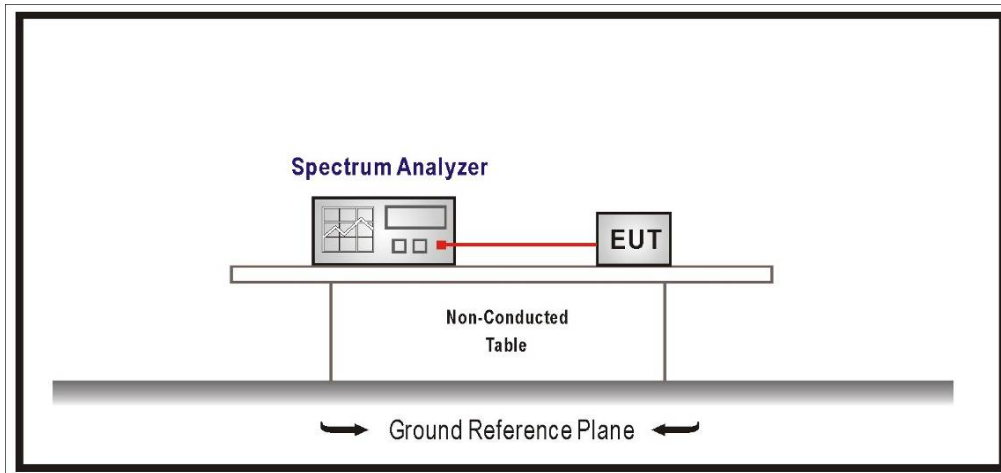
The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of 789033 D02 V02r01 for compliance to FCC CFR Title 47 Part 15 Subpart E.

#### 5.4. Test Result of Maximum Conducted Output Power

Modulation	Channel	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
802.11a	36	5180	7.470	$\leq 30.00$	Pass
	44	5220	7.850	$\leq 30.00$	Pass
	48	5240	7.830	$\leq 30.00$	Pass
	149	5745	8.270	$\leq 30.00$	Pass
	157	5785	8.360	$\leq 30.00$	Pass
	165	5825	8.250	$\leq 30.00$	Pass
802.11n (20 MHz)	36	5180	9.330	$\leq 30.00$	Pass
	44	5220	9.220	$\leq 30.00$	Pass
	48	5240	9.250	$\leq 30.00$	Pass
	149	5745	8.160	$\leq 30.00$	Pass
	157	5785	8.370	$\leq 30.00$	Pass
	165	5825	8.280	$\leq 30.00$	Pass
802.11n (40 MHz)	38	5190	9.180	$\leq 30.00$	Pass
	46	5230	9.240	$\leq 30.00$	Pass
	151	5755	8.380	$\leq 30.00$	Pass
	159	5795	8.110	$\leq 30.00$	Pass

## 6. Maximum Power Spectral Density

### 6.1. Test Setup



### 6.2. Test Limit

1. For the band 5.15 ~ 5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1 MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi
3. For the 5.25 ~ 5.35 GHz ,5470 ~ 5600 MHz and 5650 ~ 5725 MHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725 ~ 5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

### 6.3. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033.D02 V02r01 for compliance to FCC CFR Title 47 Part 15 Subpart E requirements.

For Band1 : Set RBW=1 MHz, VBW=3 MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

For Band4 : Set RBW=500 kHz, VBW=1.5 MHz with RMS detector. The PPSD is the highest level found across the emission in any 500 kHz band after 100 sweeps of averaging.



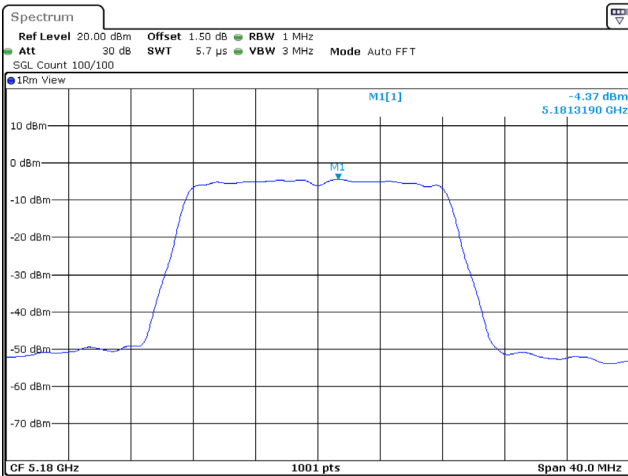
#### 6.4. Test Result of Maximum Power Spectral Density

Modulation	Channel	Frequency (MHz)	Power Spectral Density (dBm)		Limit (dBm)	Result
			Ant. 0	Total		
802.11a	36	5180	-4.370	-4.243	$\leq 17.00$	Pass
	44	5220	-4.500	-4.373	$\leq 17.00$	Pass
	48	5240	-4.980	-4.853	$\leq 17.00$	Pass
	149	5745	-6.170	-6.043	$\leq 30.00$	Pass
	157	5785	-6.360	-6.233	$\leq 30.00$	Pass
	165	5825	-5.760	-5.633	$\leq 30.00$	Pass
802.11n (20 MHz)	36	5180	-2.360	-2.192	$\leq 17.00$	Pass
	44	5220	-1.910	-1.742	$\leq 17.00$	Pass
	48	5240	-1.870	-1.702	$\leq 17.00$	Pass
	149	5745	-6.110	-5.942	$\leq 30.00$	Pass
	157	5785	-6.190	-6.022	$\leq 30.00$	Pass
	165	5825	-5.770	-5.602	$\leq 30.00$	Pass
802.11n (40 MHz)	38	5190	-4.810	-4.446	$\leq 17.00$	Pass
	46	5230	-5.470	-5.106	$\leq 17.00$	Pass
	151	5755	-9.340	-8.976	$\leq 30.00$	Pass
	159	5795	-9.180	-8.816	$\leq 30.00$	Pass

Note: Total power spectral density = power spectral density + duty factor, and the duty factor refer to section 1.10.

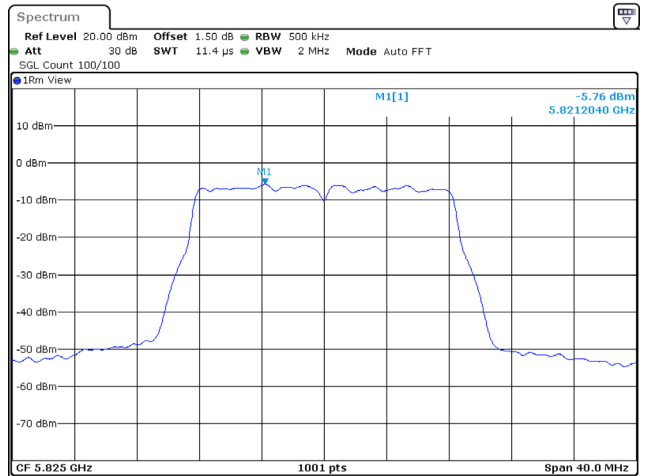
**Spectrum plot of worst value**

802.11a / Ant. 0 / 5180 MHz (U-NII-1)



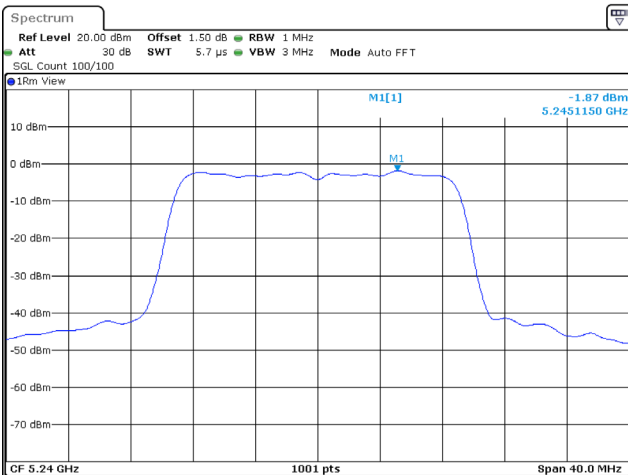
Date: 16.SEP.2021 02:57:53

802.11a / Ant. 0 / 5825 MHz (U-NII-3)



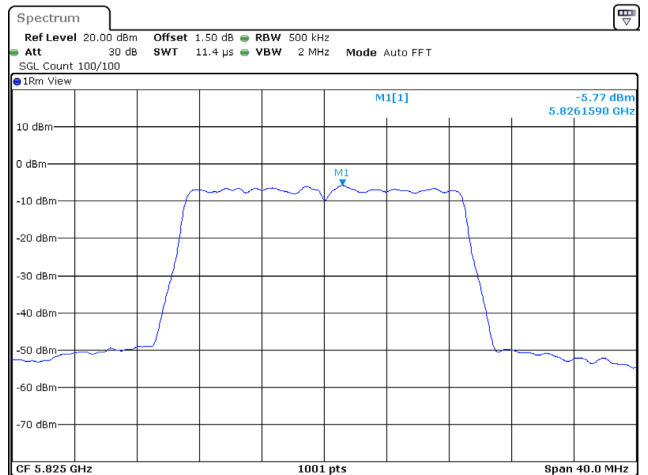
Date: 16.SEP.2021 03:18:05

802.11n (20 MHz) / Ant. 0 / 5240 MHz (U-NII-1)



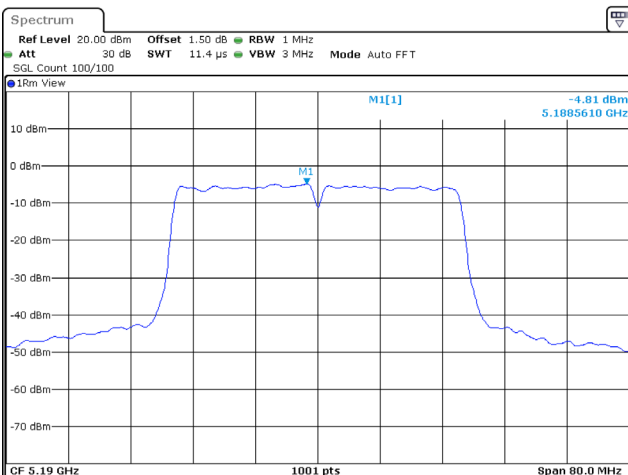
Date: 16.SEP.2021 03:34:17

802.11n (20 MHz) / Ant. 0 / 5825 MHz (U-NII-3)



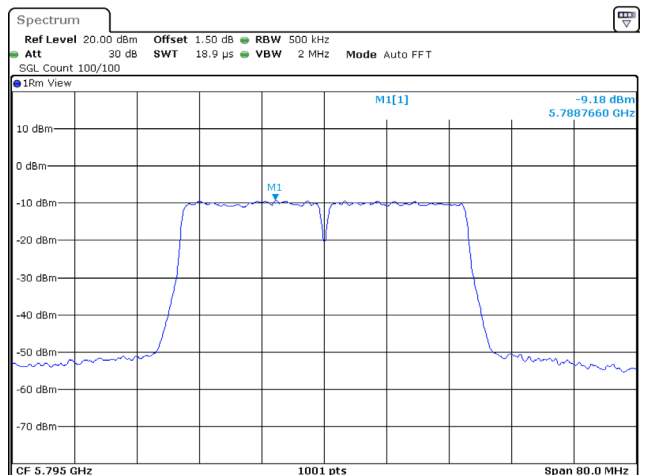
Date: 16.SEP.2021 03:40:33

802.11n (40 MHz) / Ant. 0 / 5190 MHz (U-NII-1)



Date: 16.SEP.2021 03:42:12

802.11n (40 MHz) / Ant. 0 / 5795 MHz (U-NII-3)

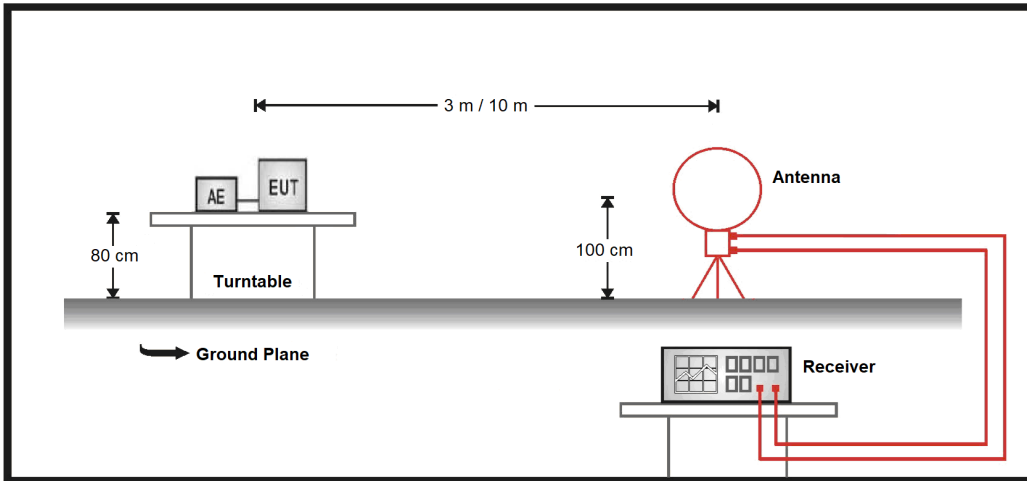


Date: 16.SEP.2021 04:01:47

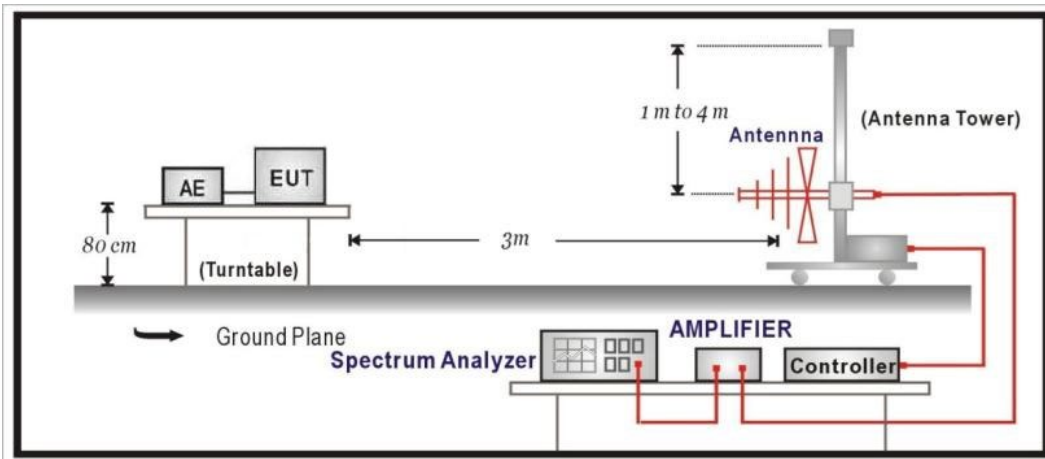
## 7. Radiated Emission

### 7.1. Test Setup

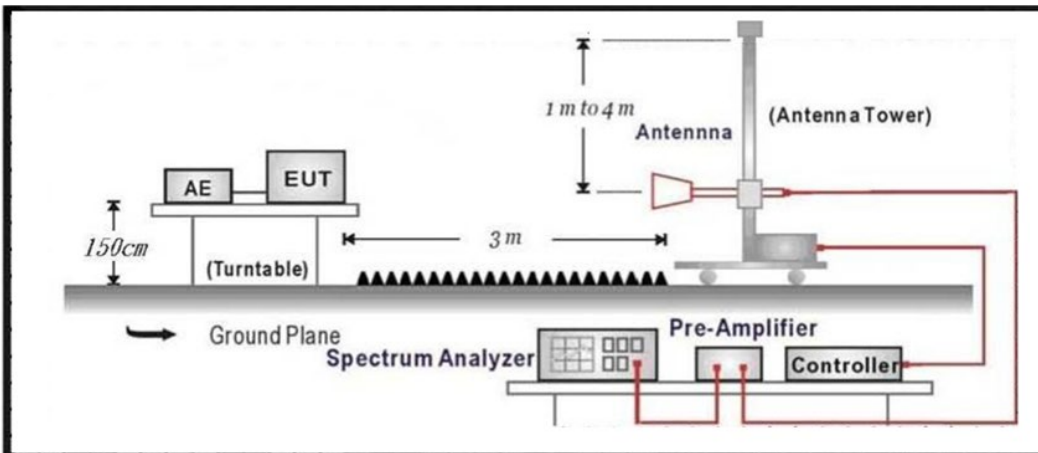
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



## 7.2. Test Limit

### General Radiated Emission Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30 dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
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

### Unwanted Emission out of the restricted bands Test Limit

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength (dBuV/m@3m)
5150 - 5250	-27	68.2
5250 - 5350	-27	68.2
5470 - 5725	-27	68.2
5725 - 5850	-27 * <sup>1</sup>	68.2 * <sup>1</sup>
	10 * <sup>2</sup>	105.2 * <sup>2</sup>
	15.6 * <sup>3</sup>	110.8 * <sup>3</sup>
	27 * <sup>4</sup>	122.2 * <sup>4</sup>

\*<sup>1</sup> beyond 75 MHz or more above of the band edge.

\*<sup>2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

\*<sup>3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

\*<sup>4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark:

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

$$E = \frac{1000000\sqrt{30P}}{3} \text{ uV/m, where P is the eirp (Watts).}$$

---

### 7.3. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 or 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 additional latch filter below 1 GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz, above 1 GHz are 1 MHz.

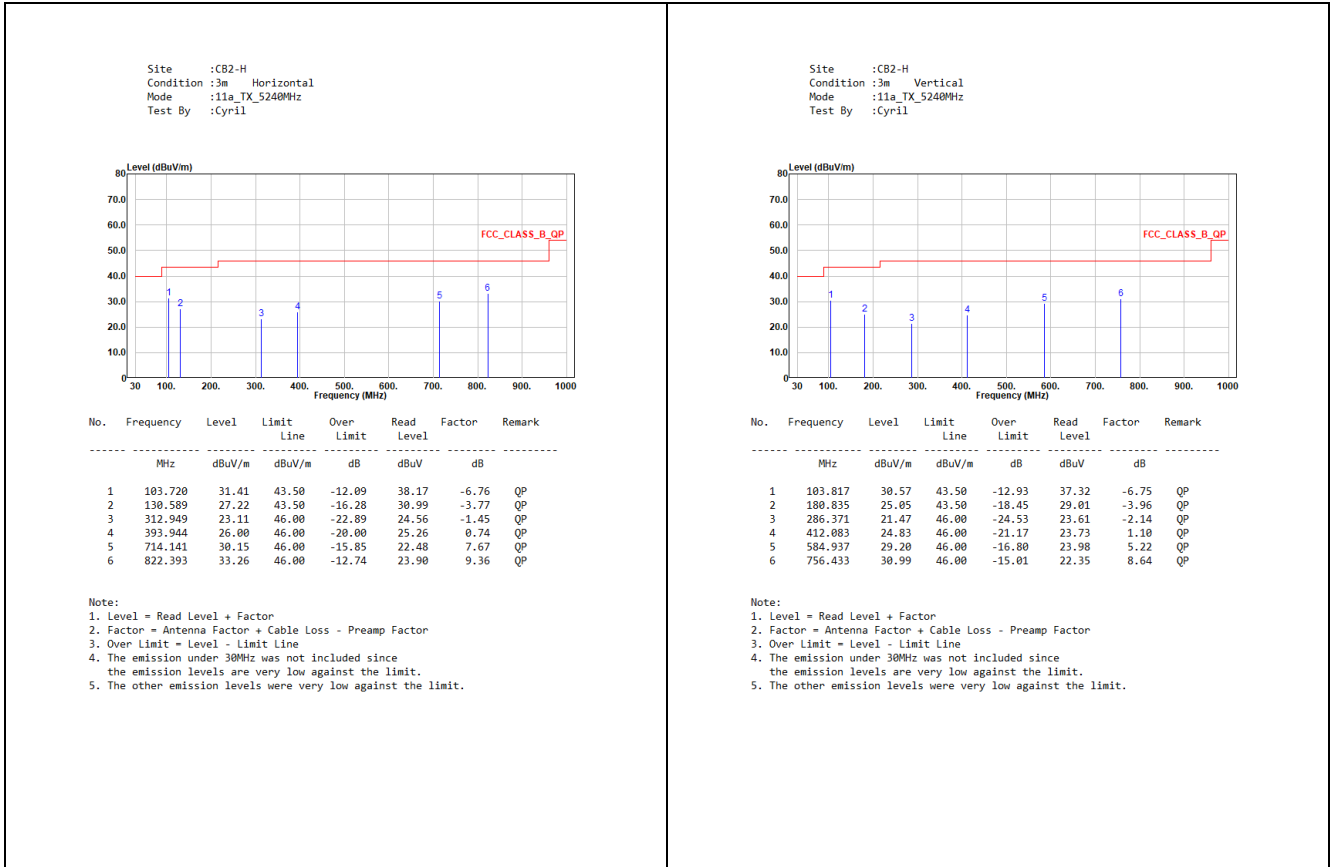
The frequency range from 30 MHz to 10th harmonics and included The frequency range from the lowest oscillator frequency generated within the device up to the 10th harmonic was checked is checked.

### 7.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart E.

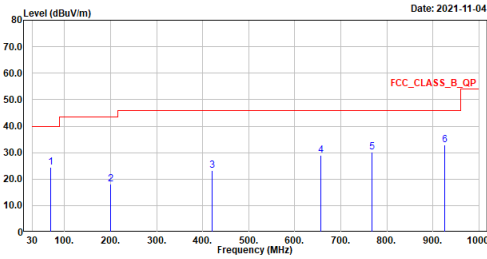
### 7.5. Test Result of Radiated Emissions (30 MHz ~ 1 GHz)

<For EUT 1>



<For EUT 2>

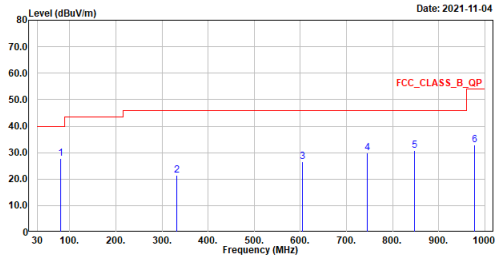
Site :CB2-H  
 Condition :3m Horizontal  
 Mode :11a\_TX\_5240MHz  
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	69.770	24.57	40.00	-15.43	28.74	-4.17	QP
2	199.750	17.98	43.50	-25.52	23.98	-6.00	QP
3	420.910	23.38	46.00	-22.62	21.95	1.43	QP
4	656.620	28.94	46.00	-17.06	22.11	6.83	QP
5	768.170	30.10	46.00	-15.90	21.36	8.74	QP
6	926.280	32.97	46.00	-13.03	22.13	10.84	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.
  5. The other emission levels were very low against the limit.

Site :CB2-H  
 Condition :3m Vertical  
 Mode :11a\_TX\_5240MHz  
 Test By :Getaz

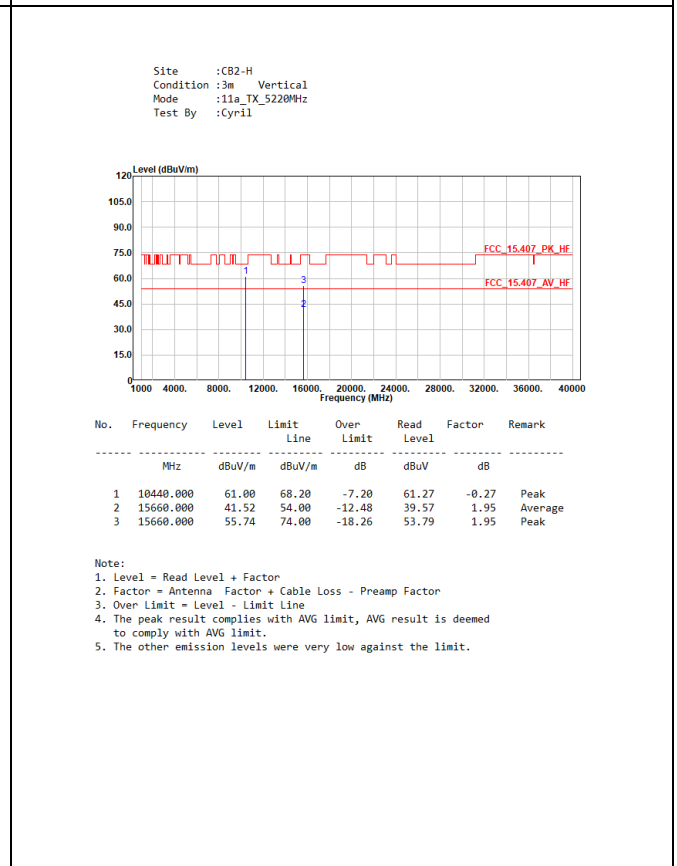
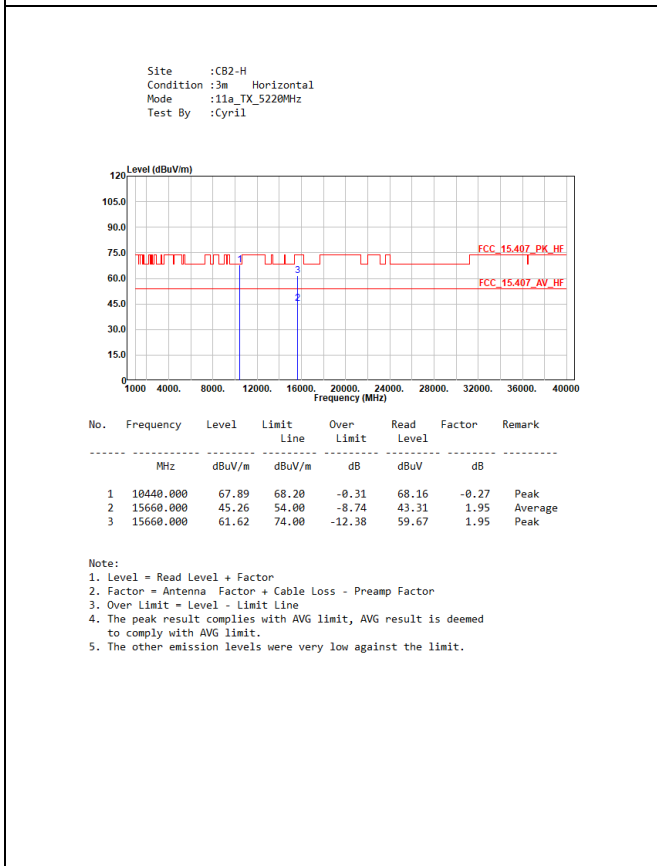
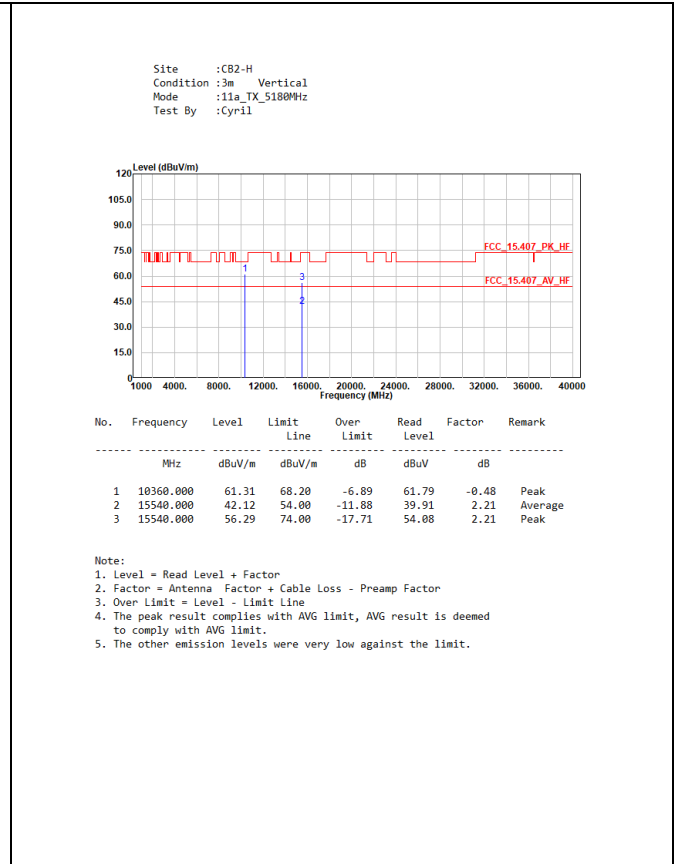
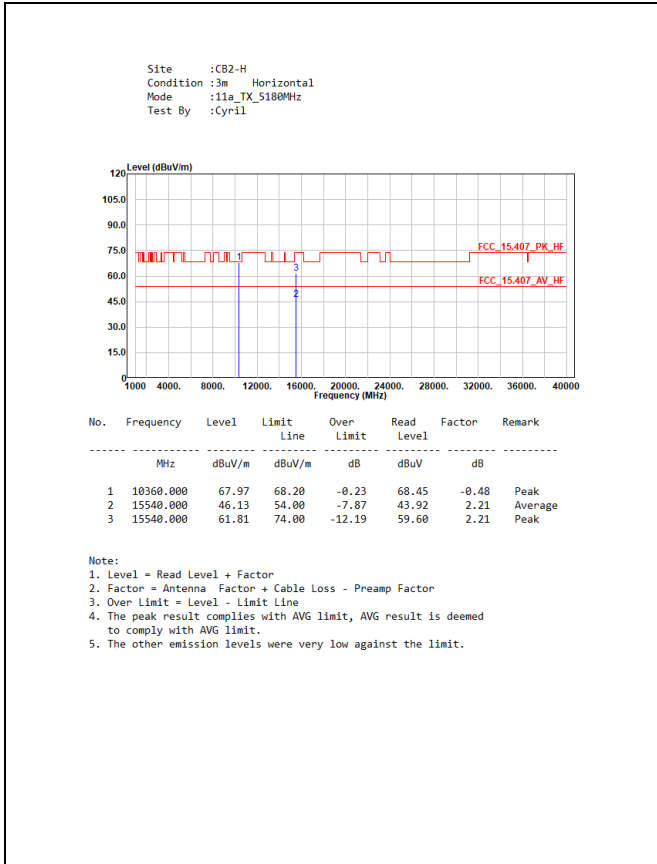


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	80.440	27.75	40.00	-12.25	34.46	-6.71	QP
2	331.670	21.42	46.00	-24.58	22.28	-0.86	QP
3	604.240	26.53	46.00	-19.47	20.46	6.07	QP
4	745.860	29.77	46.00	-16.23	21.29	8.48	QP
5	846.740	30.92	46.00	-15.08	21.25	9.67	QP
6	977.690	32.89	54.00	-21.11	21.49	11.40	QP

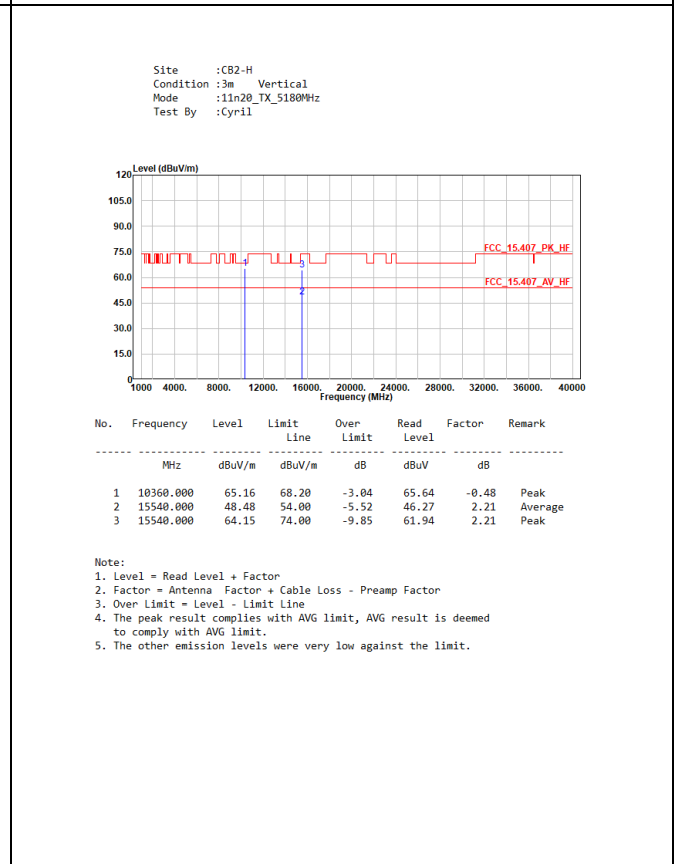
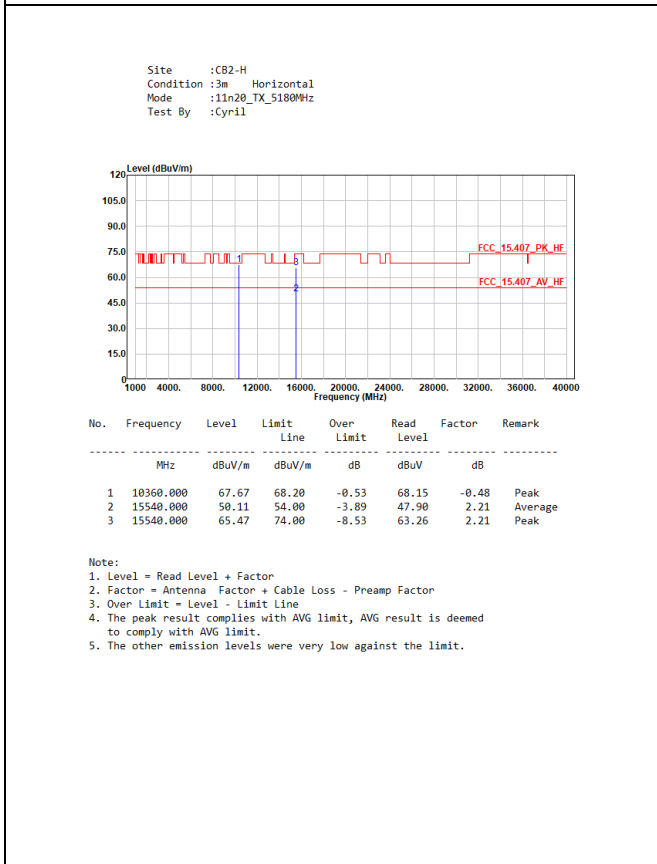
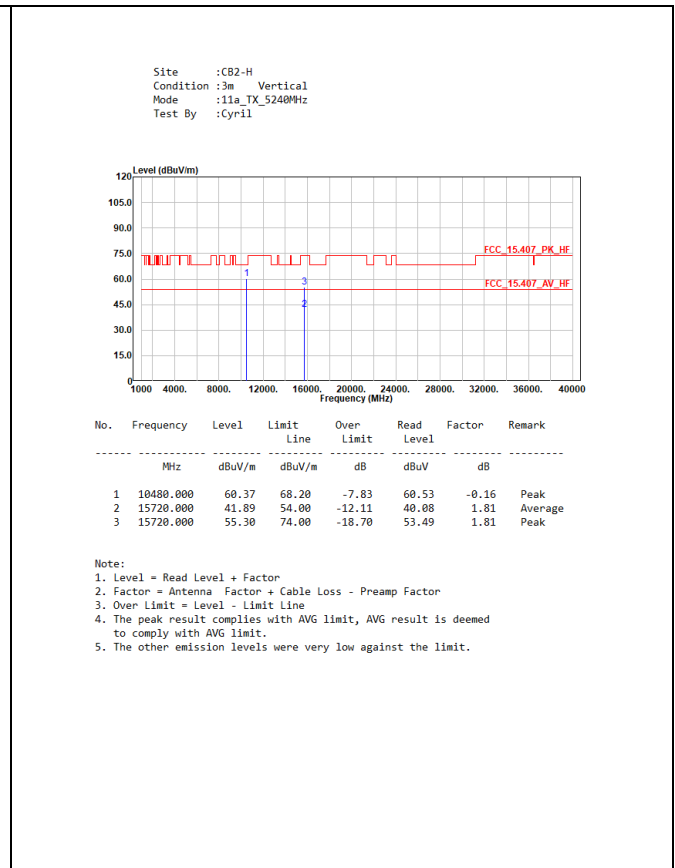
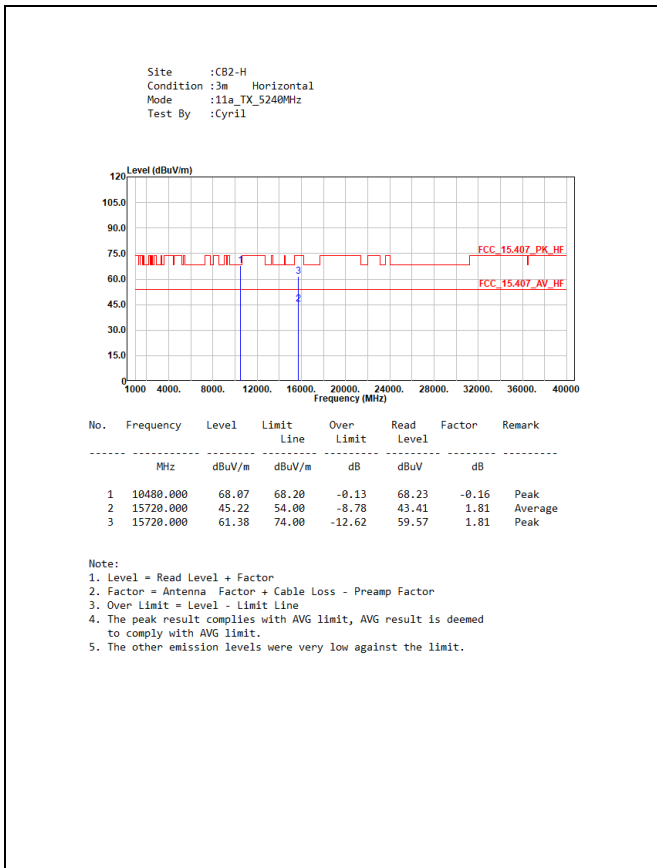
- Note:
1. Level = Read Level + Factor
  2. Factor = Antenna Factor + Cable Loss - Preamp Factor
  3. Over Limit = Level - Limit Line
  4. The emission under 30MHz was not included since the emission levels are very low against the limit.
  5. The other emission levels were very low against the limit.

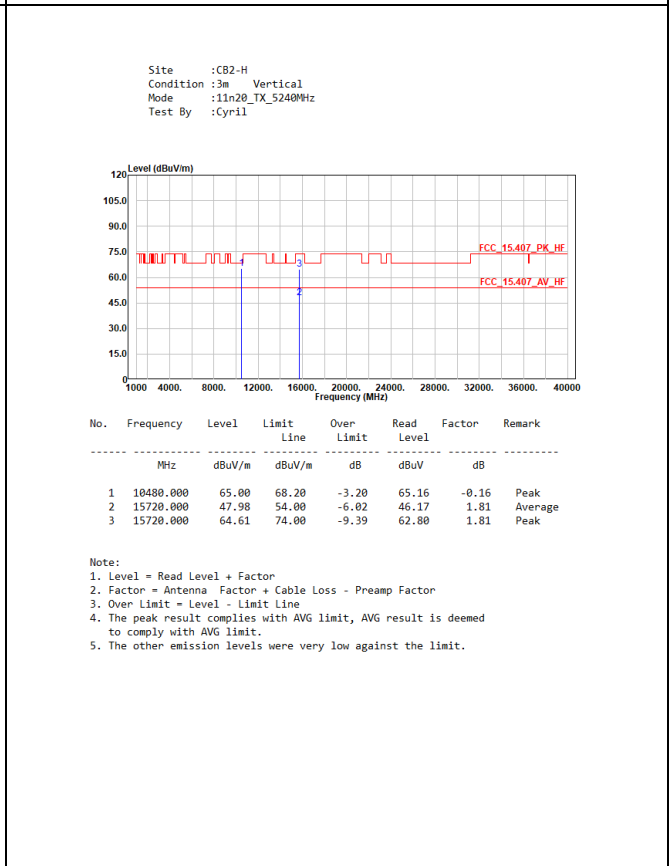
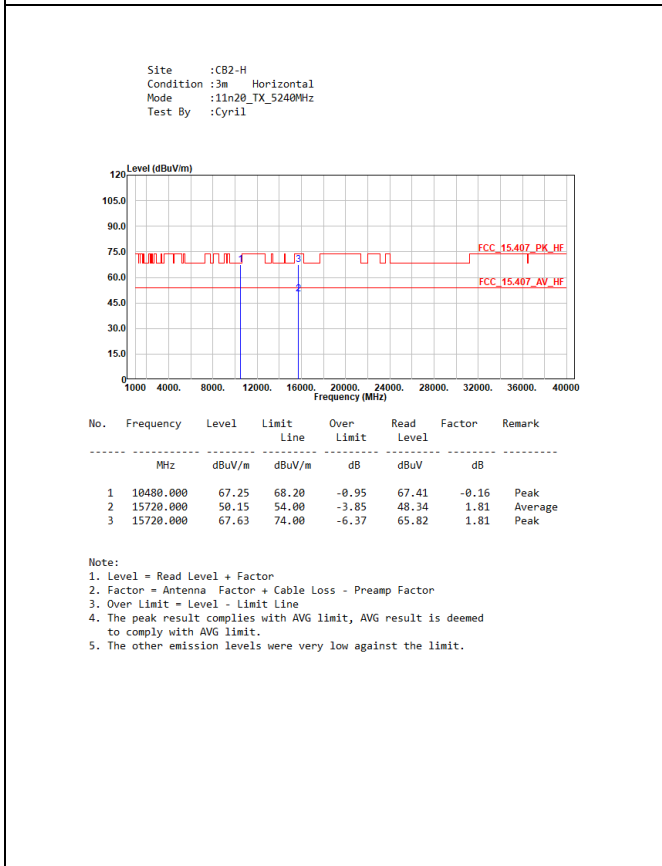
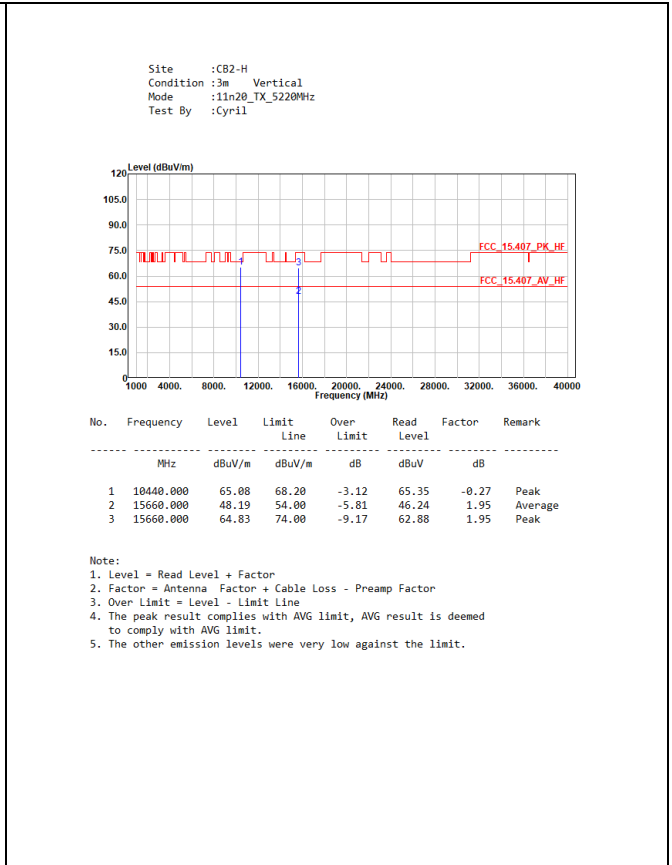
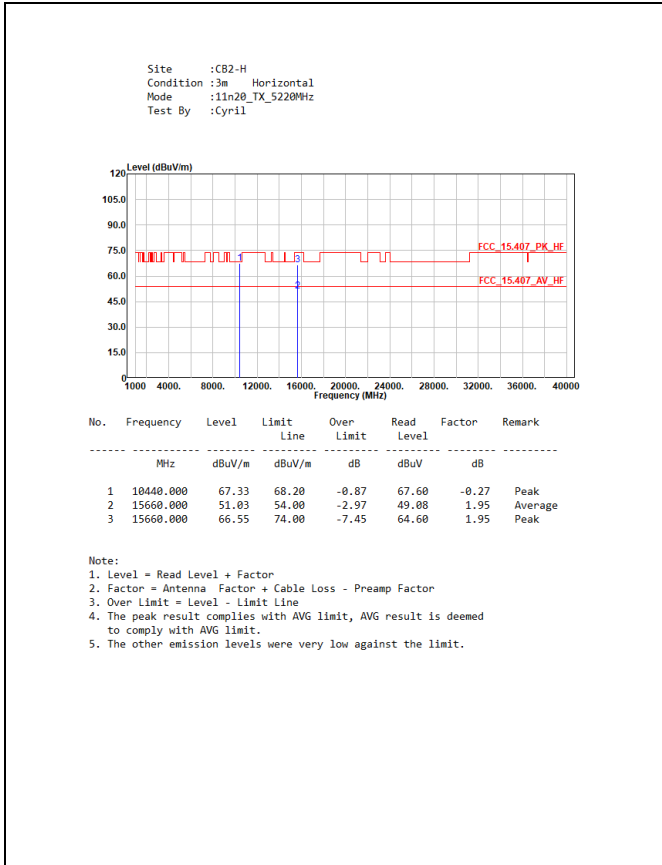
### 7.6. Test Result of Radiated Emissions (1 GHz ~ 10<sup>th</sup> Harmonic)

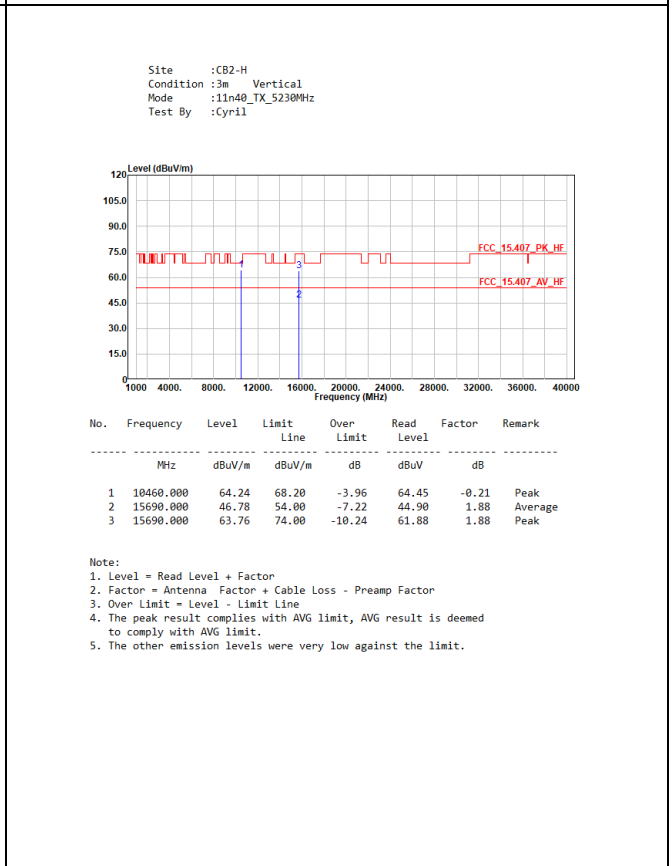
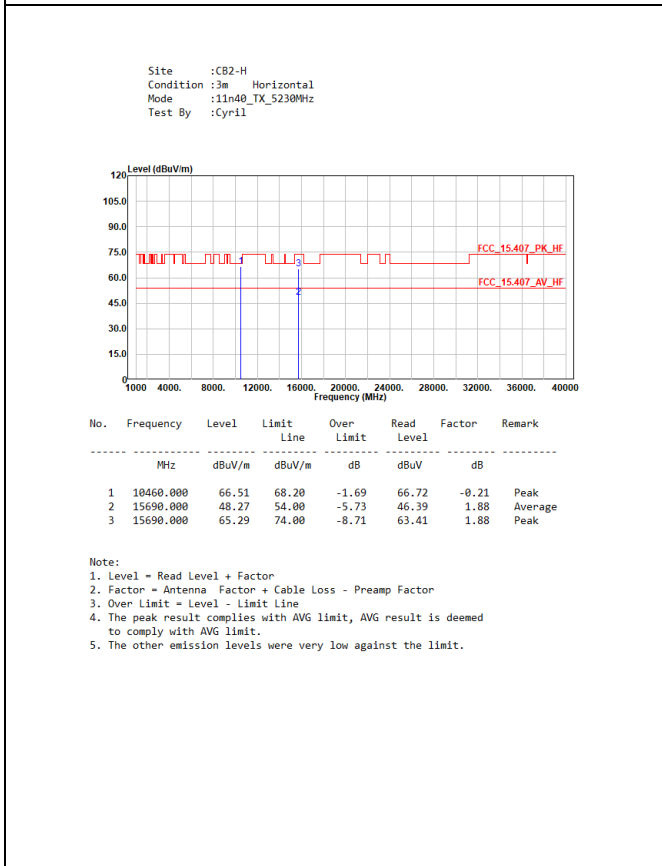
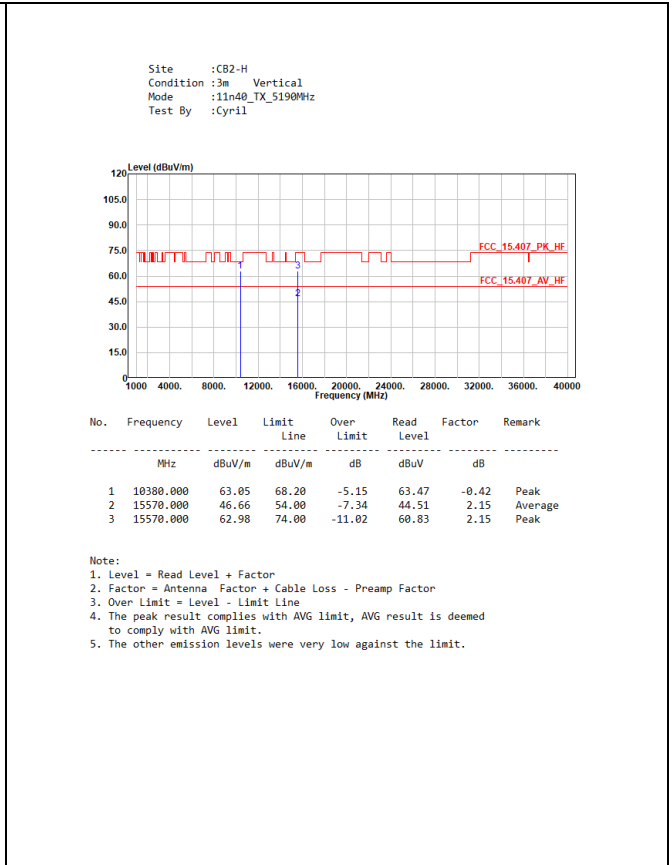
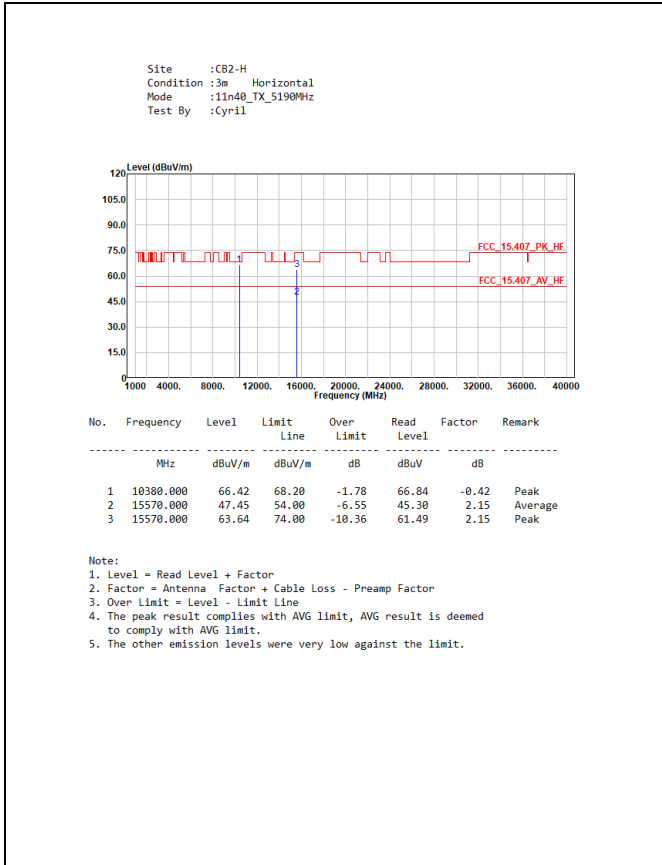
<For EUT 1>  
For U-NII-1:





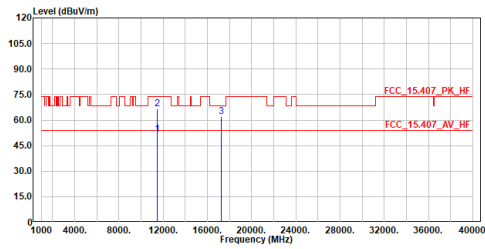






**For U-NII-3:**

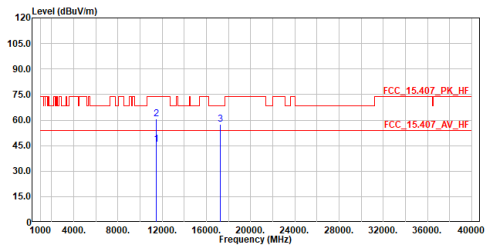
Site :CB2-H  
 Condition :3m Horizontal  
 Mode :11a\_TX\_5745MHz  
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	11490.000	51.57	54.00	-2.43	50.36	1.21	Average
2	11490.000	66.51	74.00	-7.49	65.30	1.21	Peak
3	17235.000	62.18	68.20	-6.02	57.74	4.44	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.

Site :CB2-H  
 Condition :3m Vertical  
 Mode :11a\_TX\_5745MHz  
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	11490.000	45.94	54.00	-8.06	44.73	1.21	Average
2	11490.000	60.49	74.00	-13.51	59.28	1.21	Peak
3	17235.000	57.62	68.20	-10.58	53.18	4.44	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.

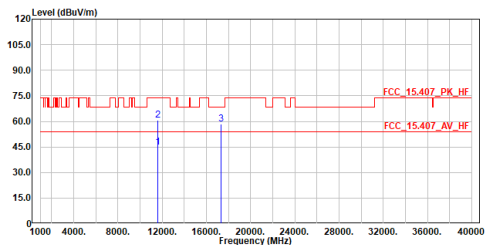
Site :CB2-H  
 Condition :3m Horizontal  
 Mode :11a\_TX\_5785MHz  
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	11570.000	51.54	54.00	-2.46	50.40	1.14	Average
2	11570.000	66.86	74.00	-7.14	65.72	1.14	Peak
3	17355.000	62.61	68.20	-5.59	57.61	5.00	Peak

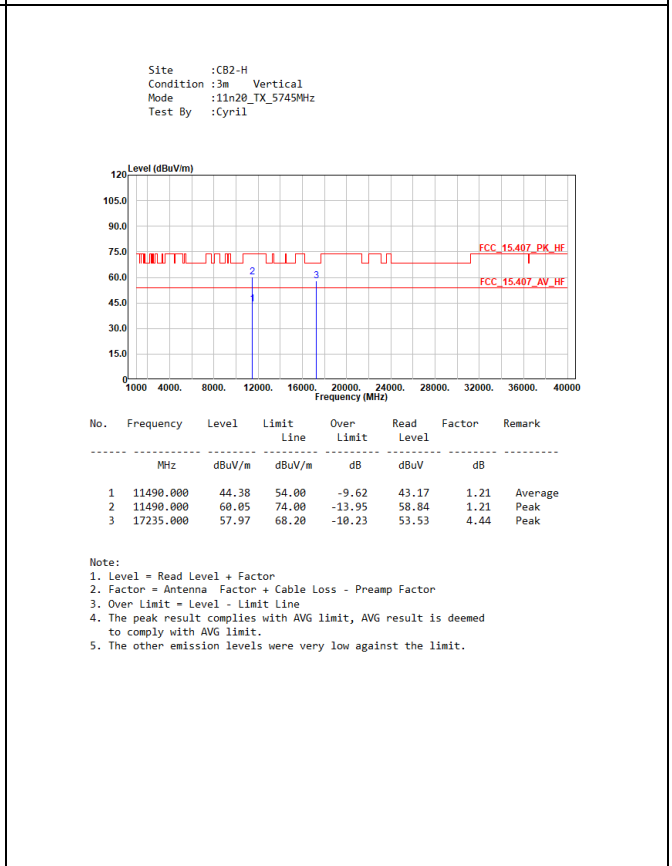
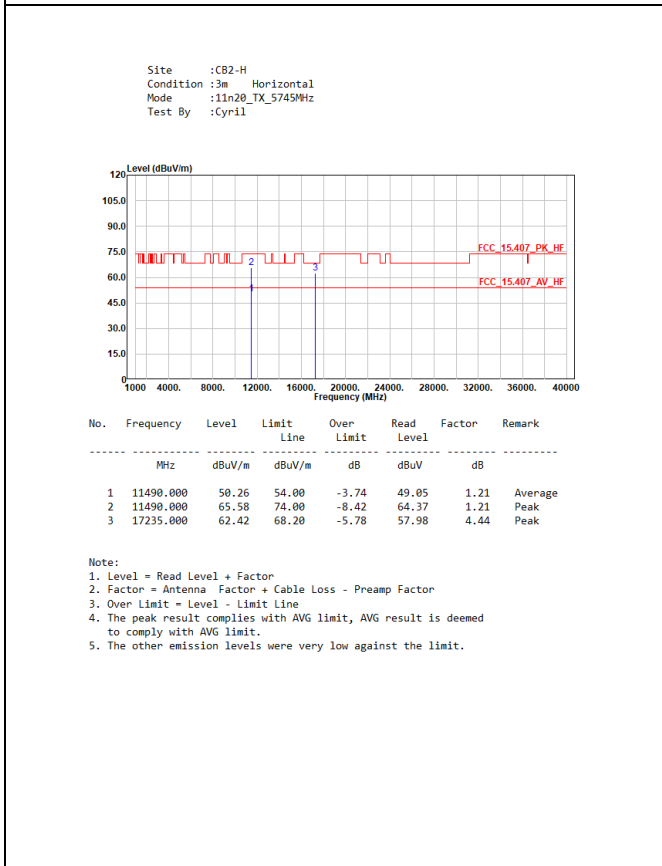
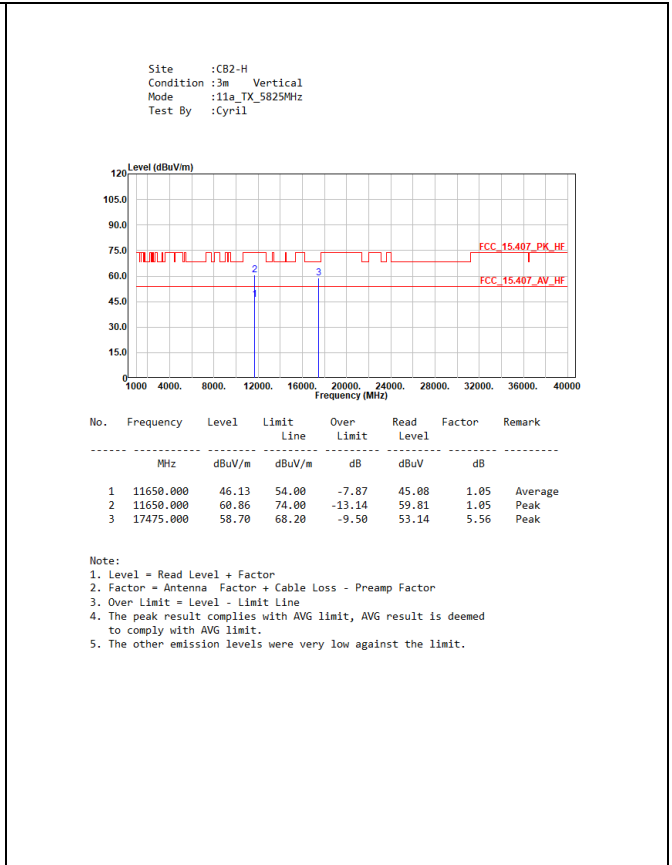
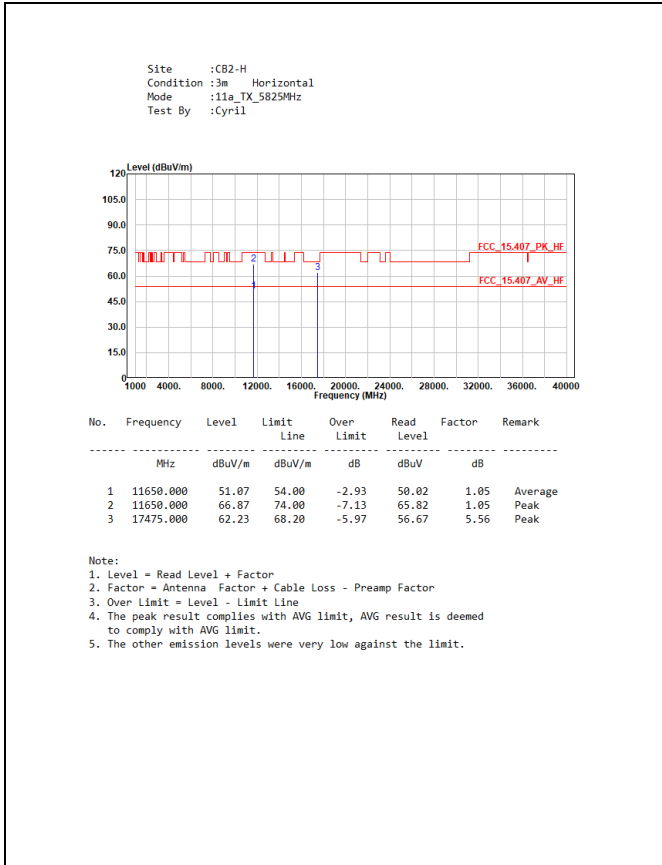
Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.

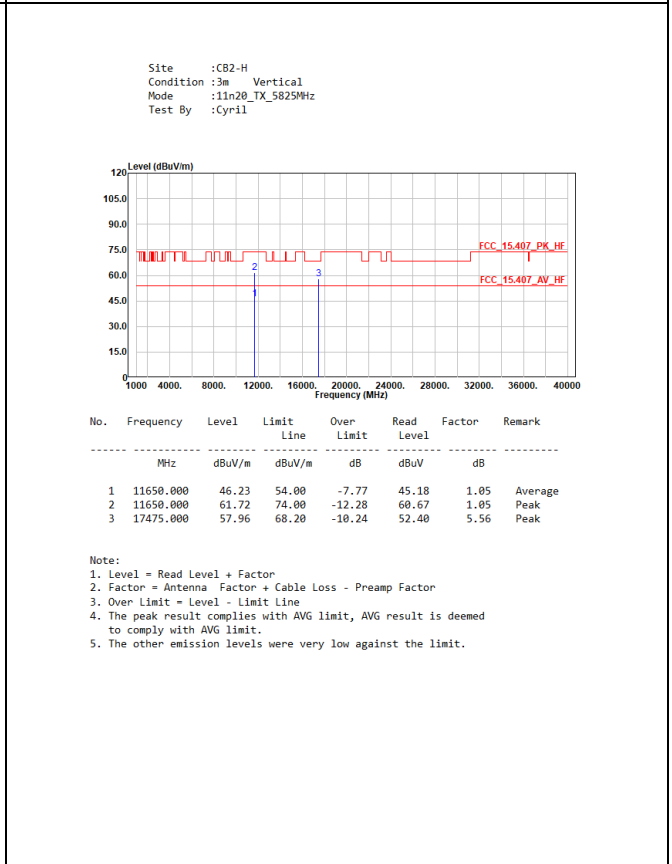
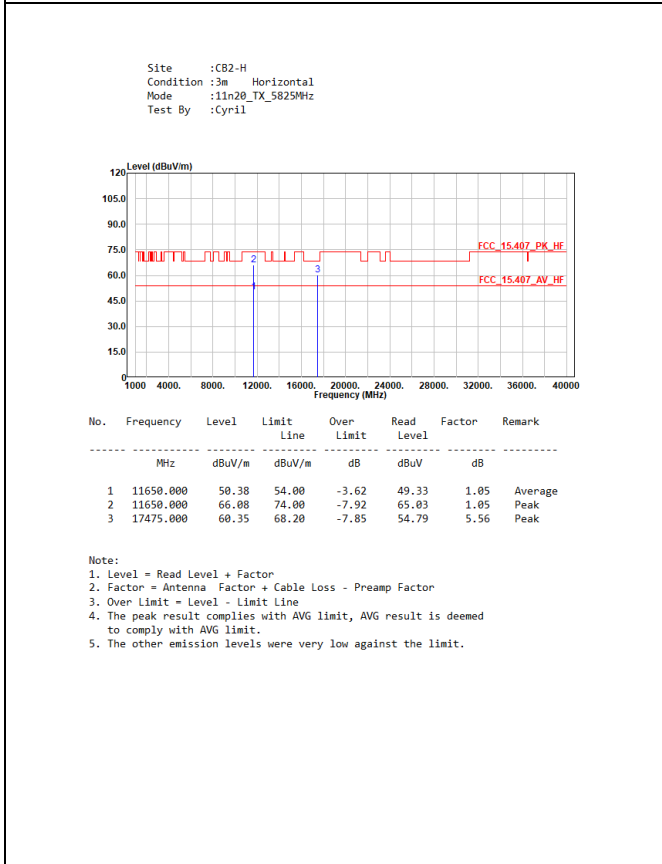
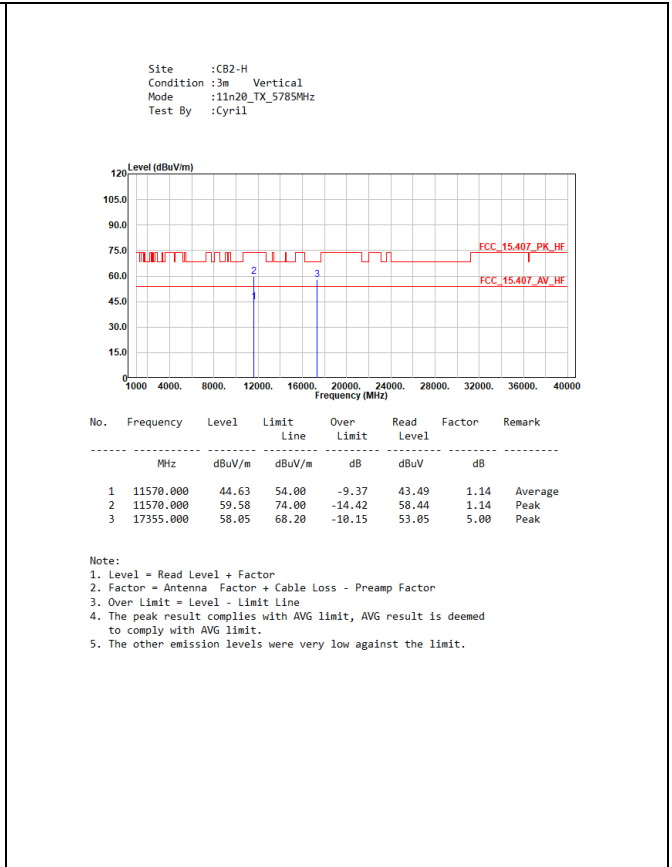
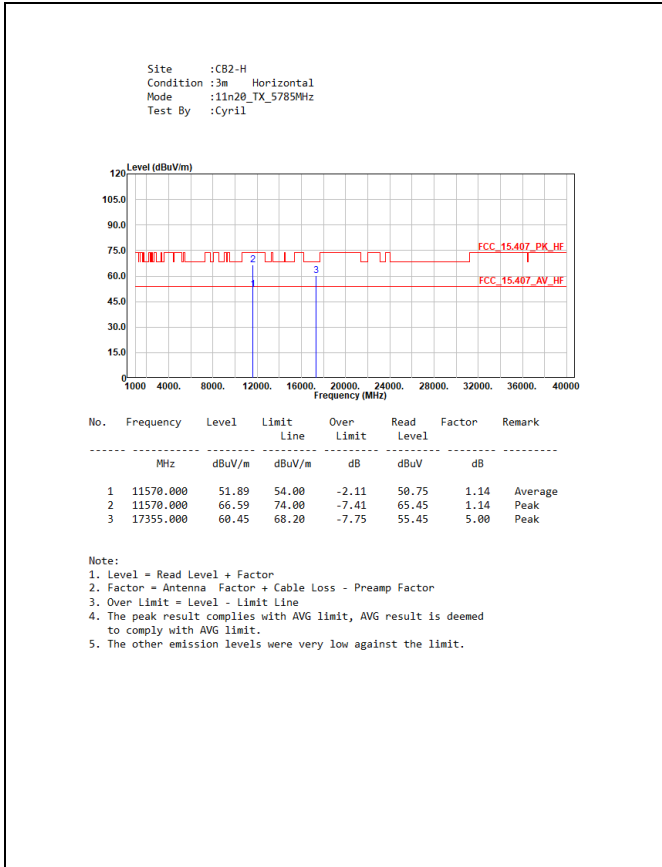
Site :CB2-H  
 Condition :3m Vertical  
 Mode :11a\_TX\_5785MHz  
 Test By :Cyril

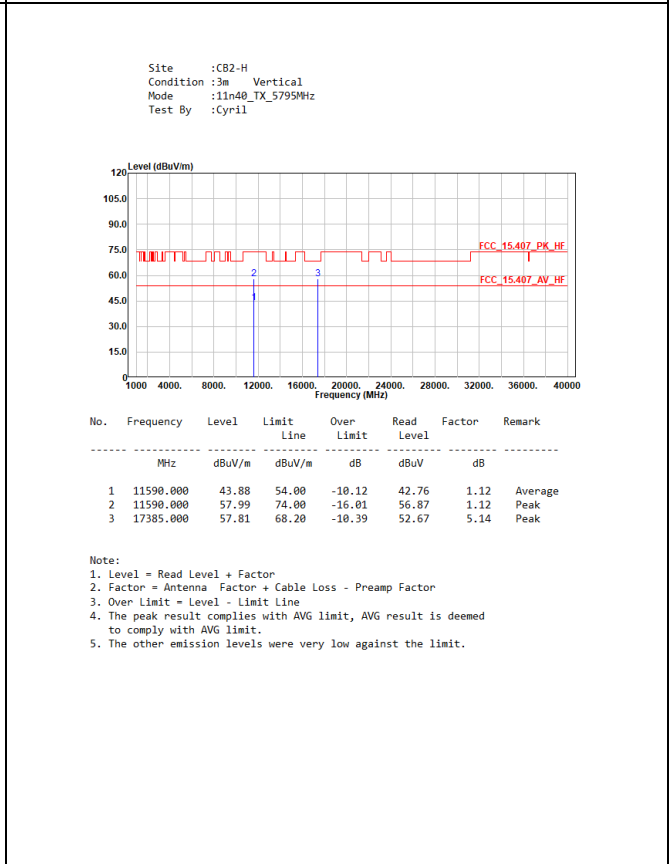
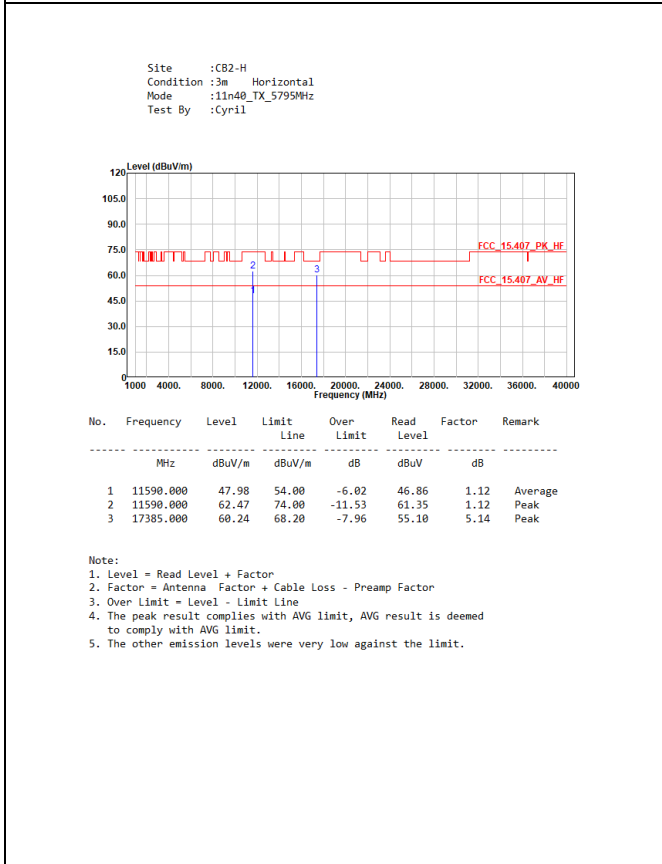
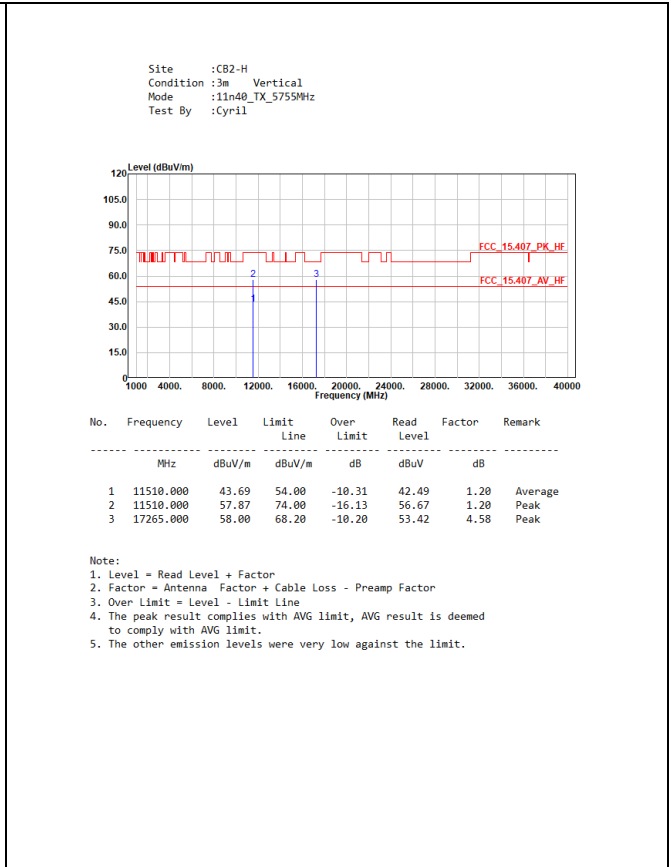
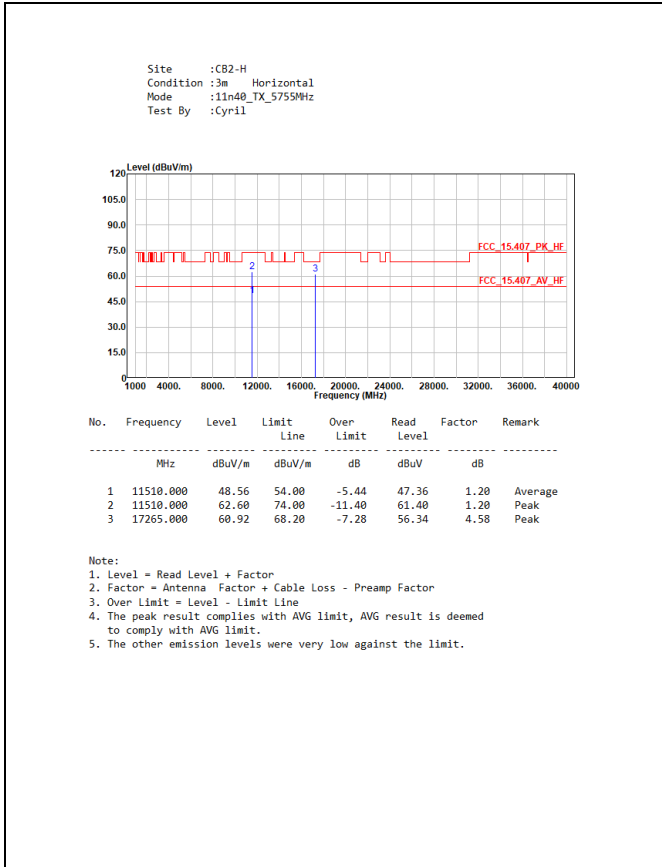


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	11570.000	44.98	54.00	-9.02	43.84	1.14	Average
2	11570.000	60.54	74.00	-13.46	59.40	1.14	Peak
3	17355.000	58.51	68.20	-9.69	53.51	5.00	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.

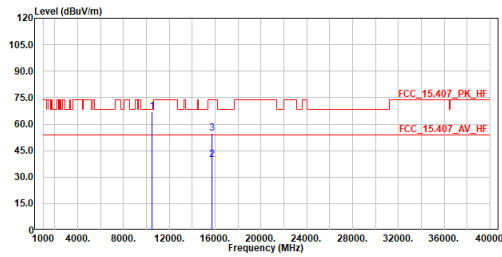






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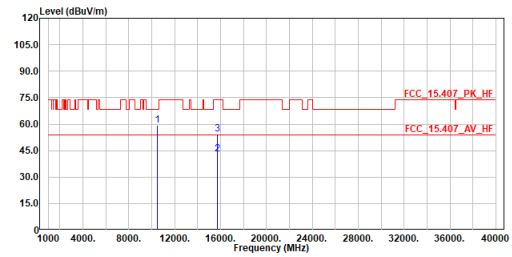
Site :CB2-H  
 Condition :3m Horizontal  
 Mode :11a\_TX\_5240MHz  
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	Mhz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10480.000	66.95	68.20	-1.25	67.11	-0.16	Peak
2	15720.000	39.97	54.00	-14.03	38.16	1.81	Average
3	15720.000	54.77	74.00	-19.23	52.96	1.81	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.

Site :CB2-H  
 Condition :3m Vertical  
 Mode :11a\_TX\_5240MHz  
 Test By :Getaz



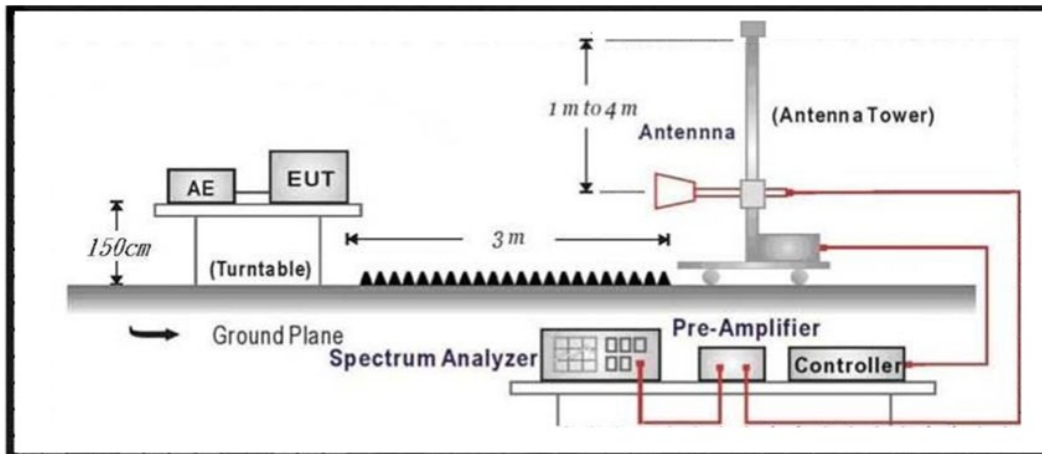
No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	Mhz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10480.000	59.34	68.20	-8.86	59.50	-0.16	Peak
2	15720.000	42.98	54.00	-11.02	41.17	1.81	Average
3	15720.000	54.52	74.00	-19.48	52.71	1.81	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.



## 8. Radiated Emission Band Edge

### 8.1. Test Setup



### 8.2. Test Limit

#### General Radiated Emission Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30 dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

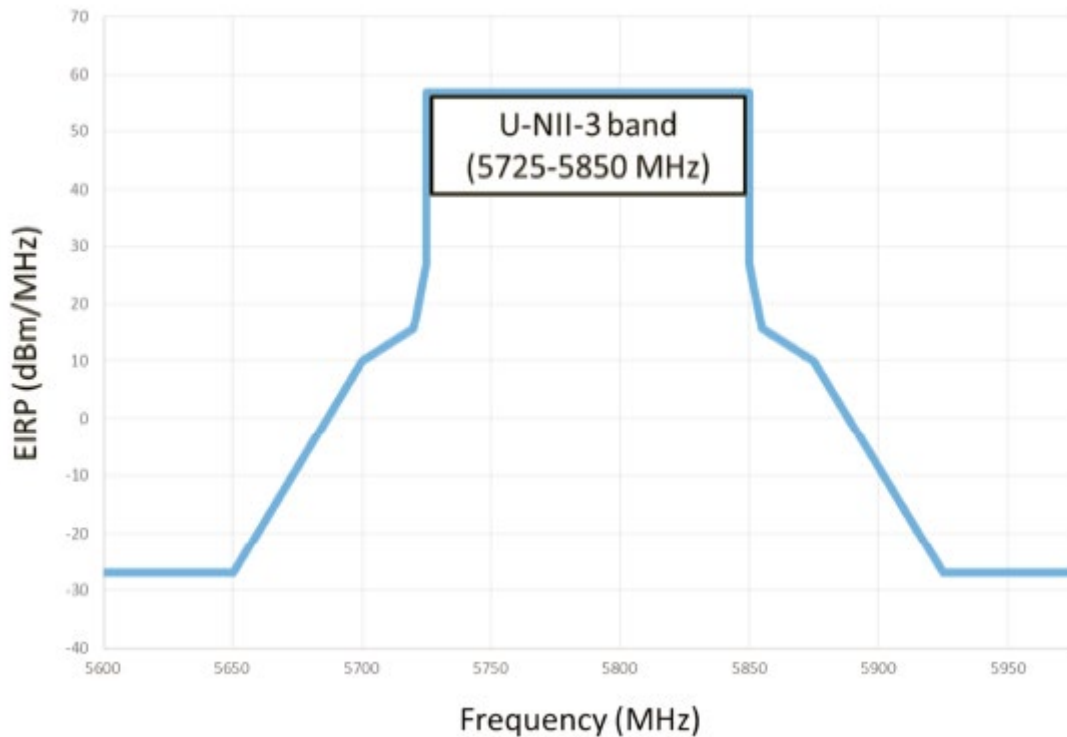
1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

**Unwanted Emission out of the restricted bands Test Limit**

Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (dBuV/m@3m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3

For transmitters operating in the 5.725 ~ 5.85 GHz band

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



**Remark:**

1. For frequencies more than 10 MHz above or below the band edges.
2. For frequency range from the band edges to 10 MHz above or below the band edges.
3. 
$$uV/m = \frac{1000000\sqrt{30 \times EIRP}}{3}$$
, RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

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### **8.3. Test Procedure**

The EUT and its simulators are 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.

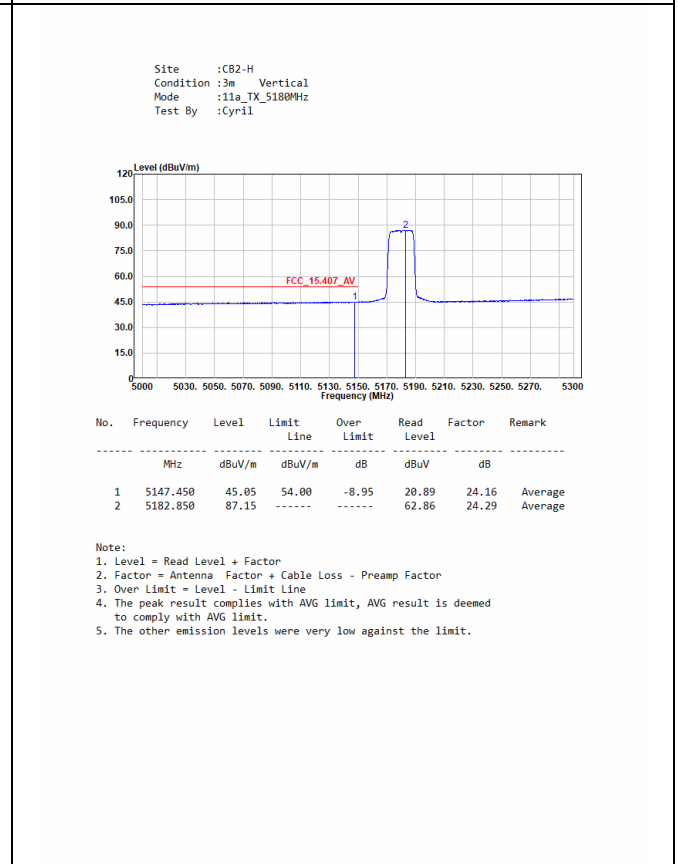
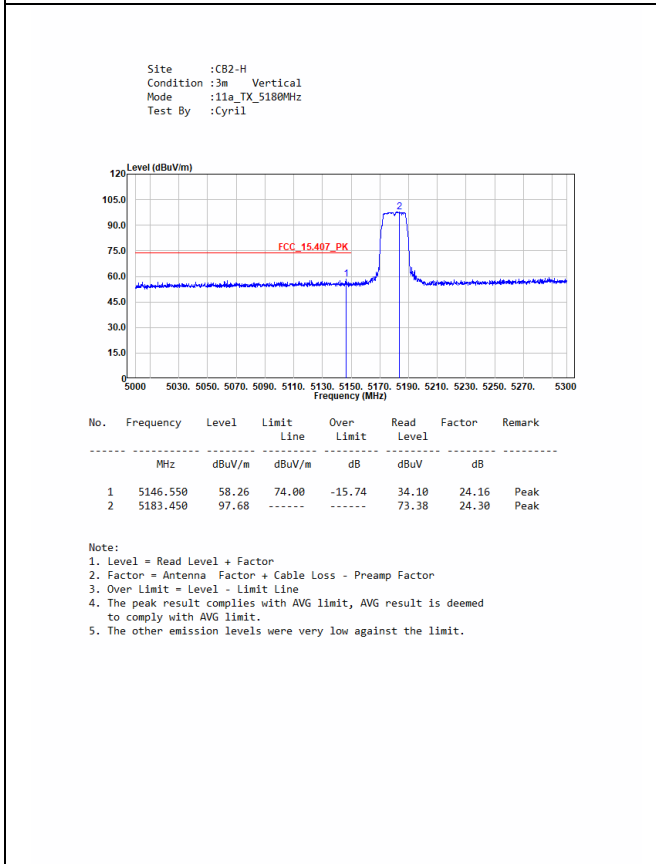
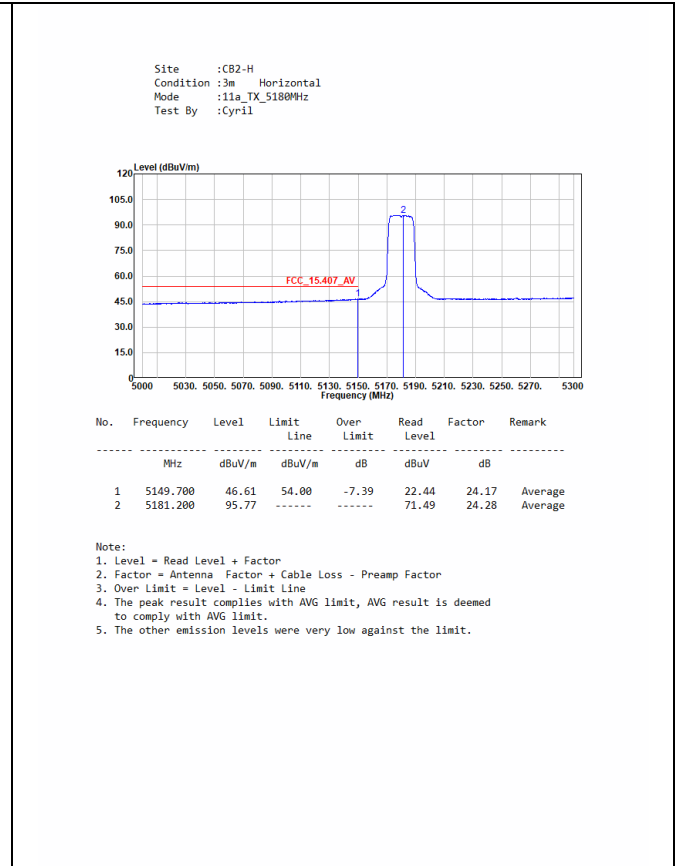
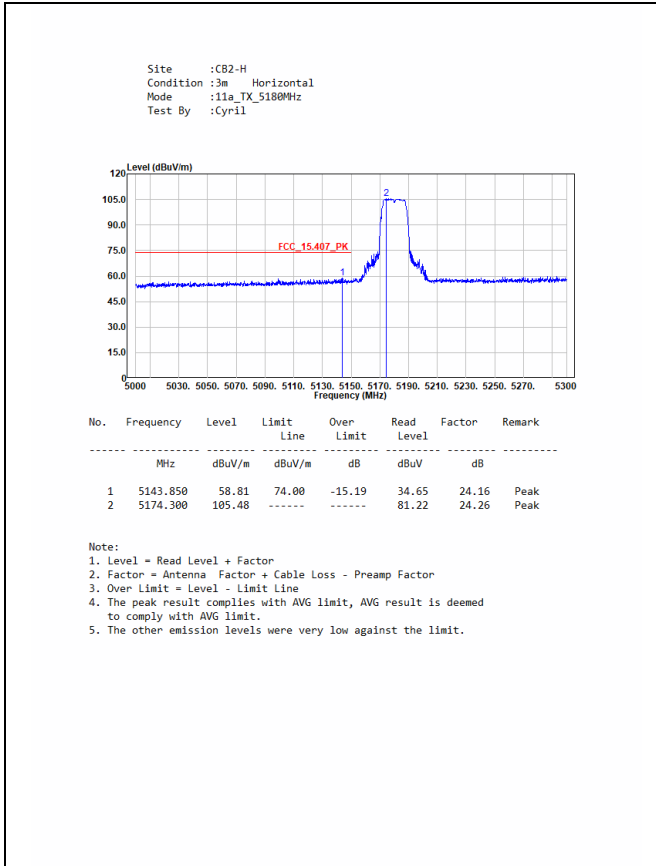
The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

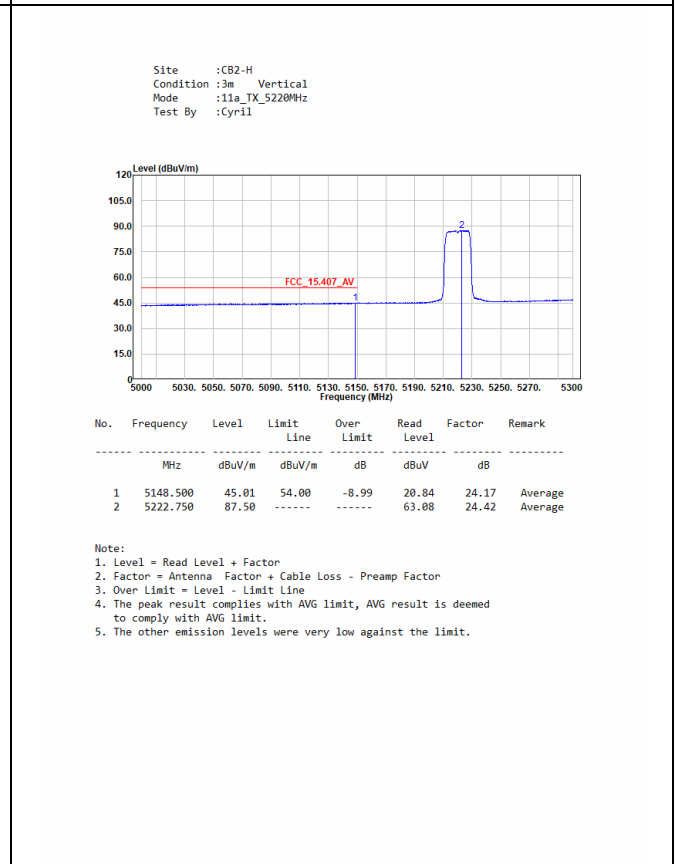
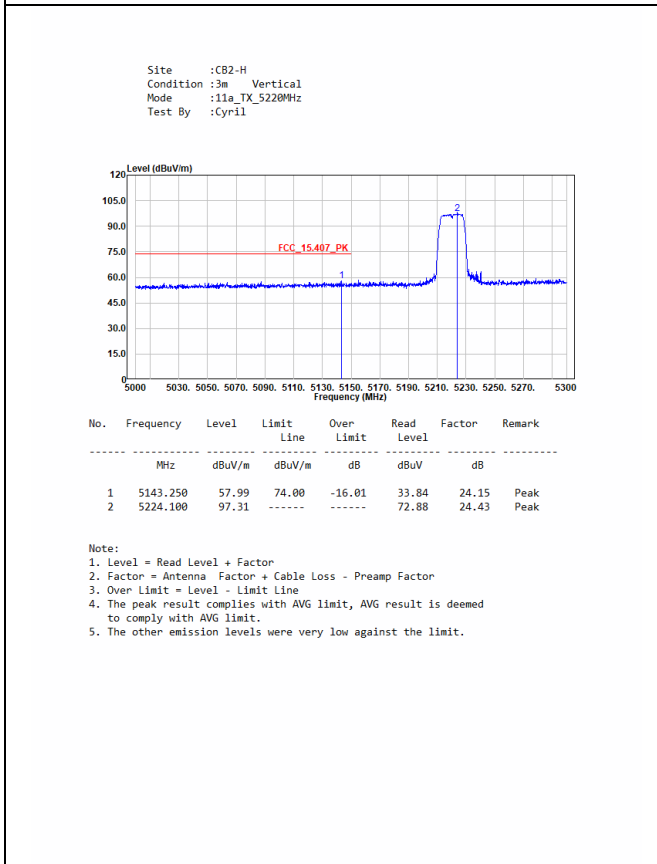
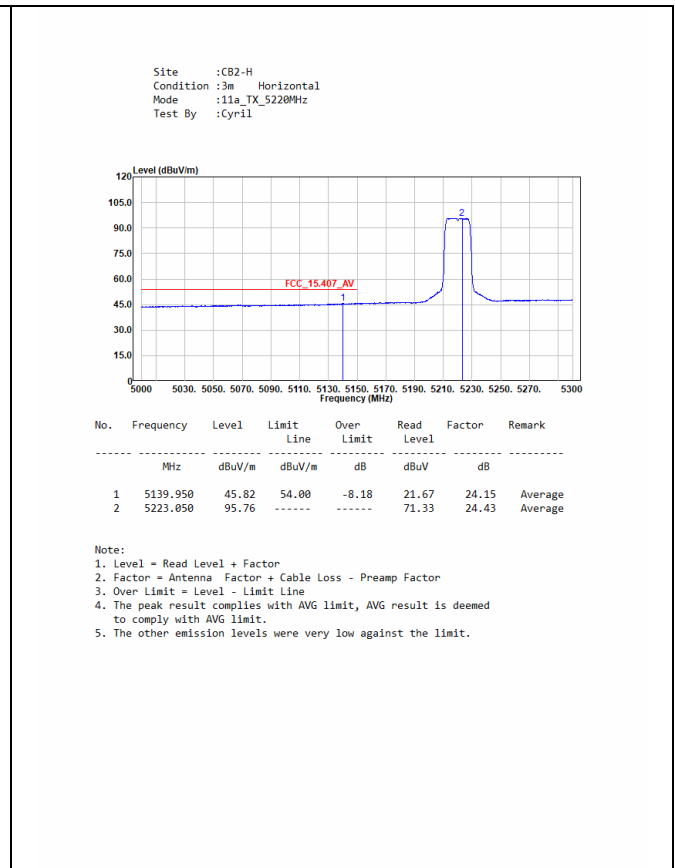
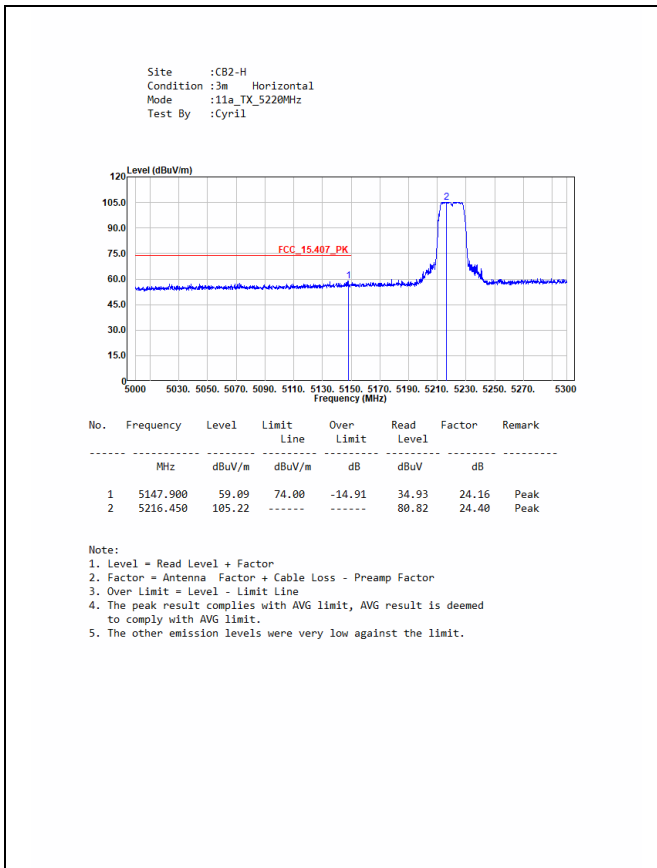
### **8.4. Test Specification**

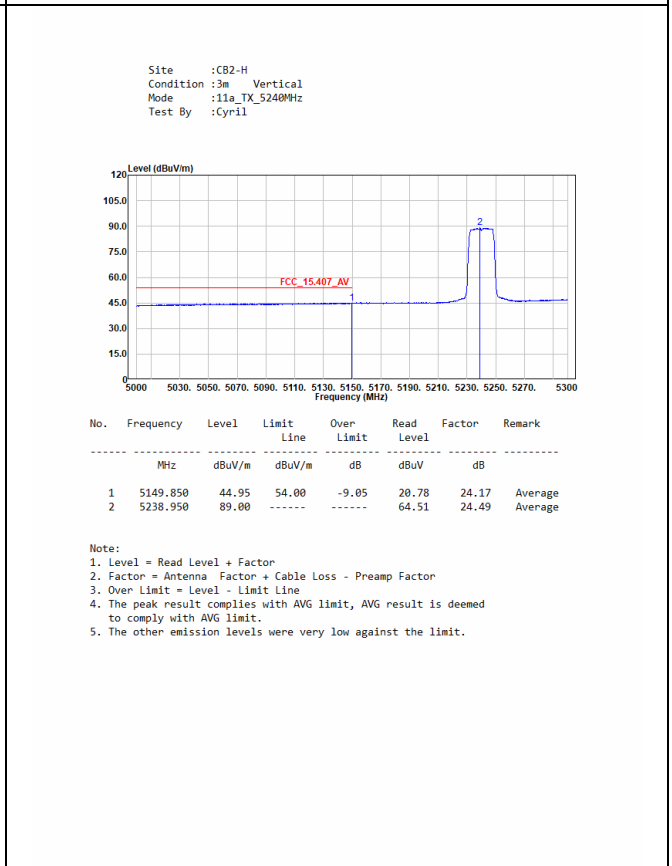
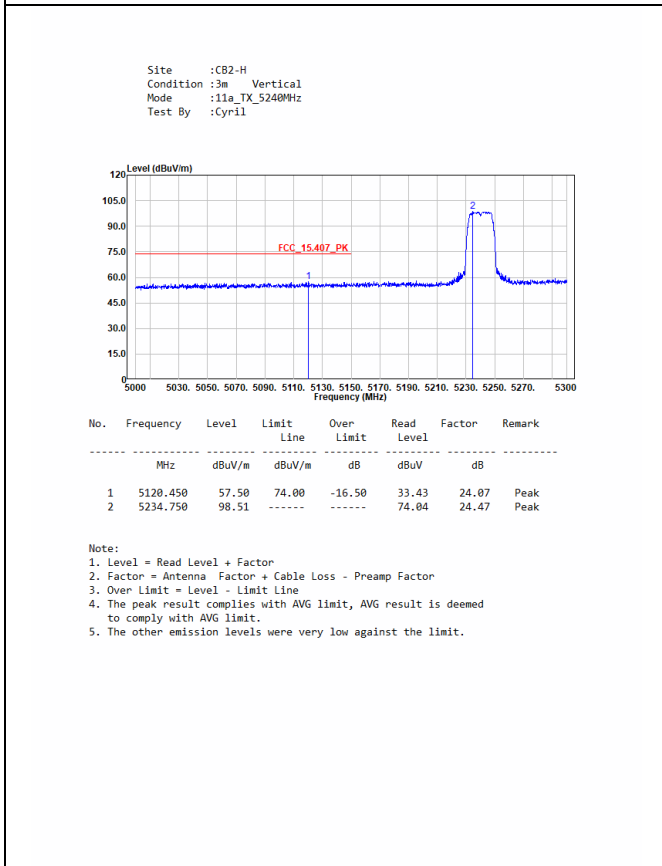
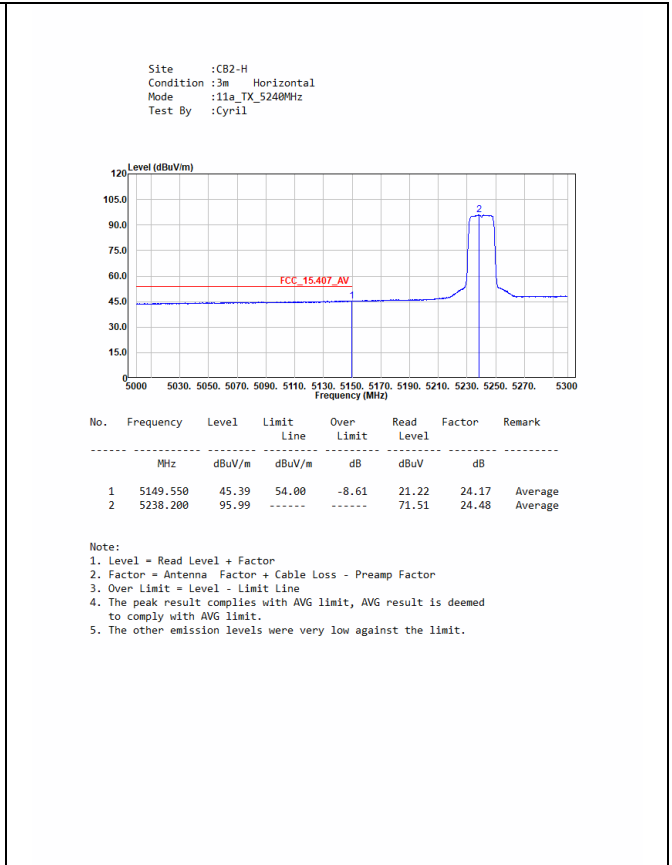
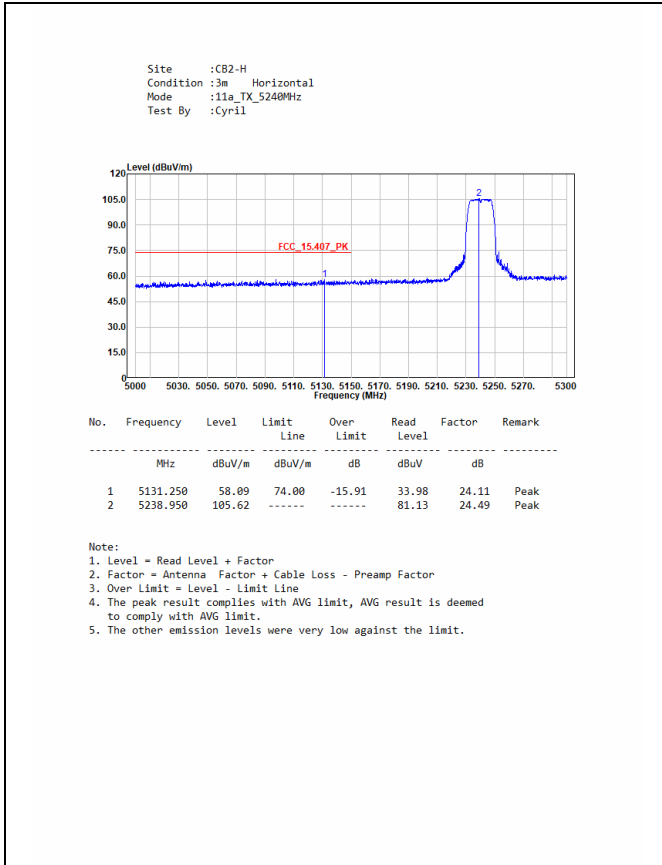
According to FCC CFR Title 47 Part 15 Subpart E.

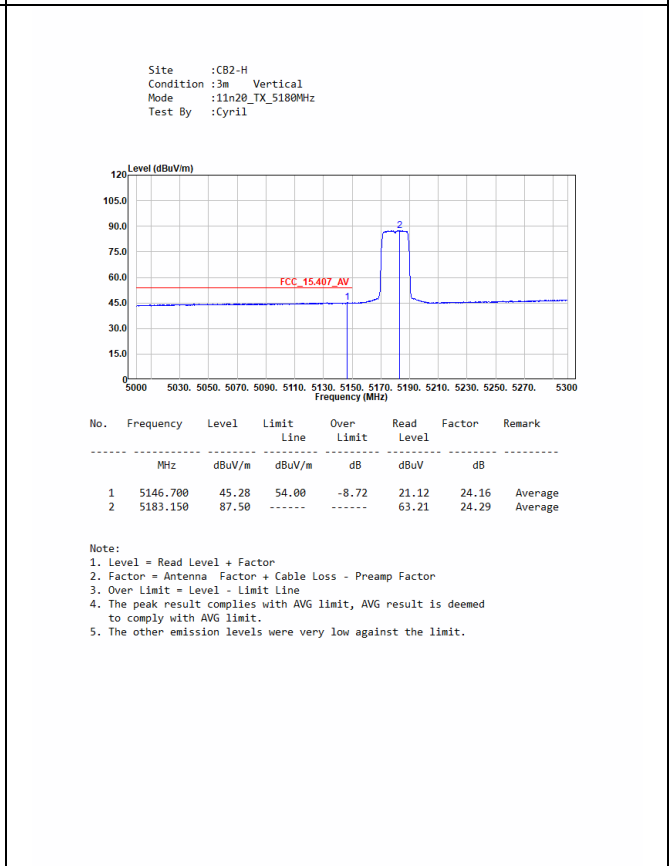
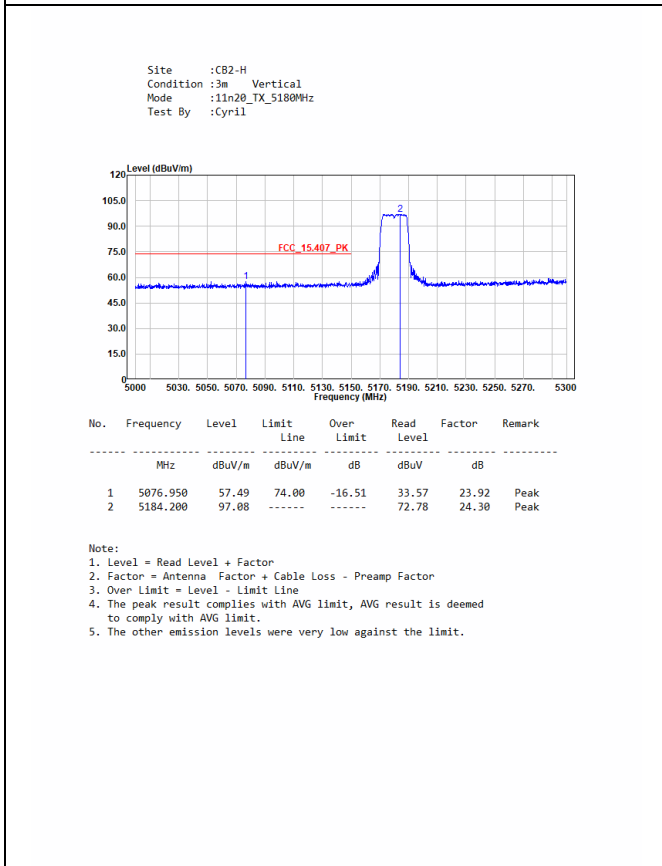
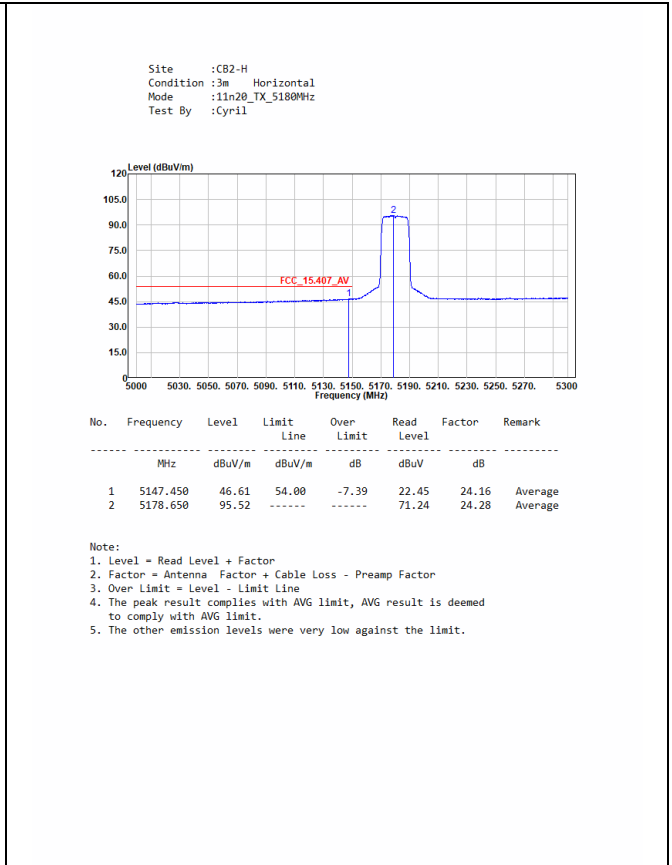
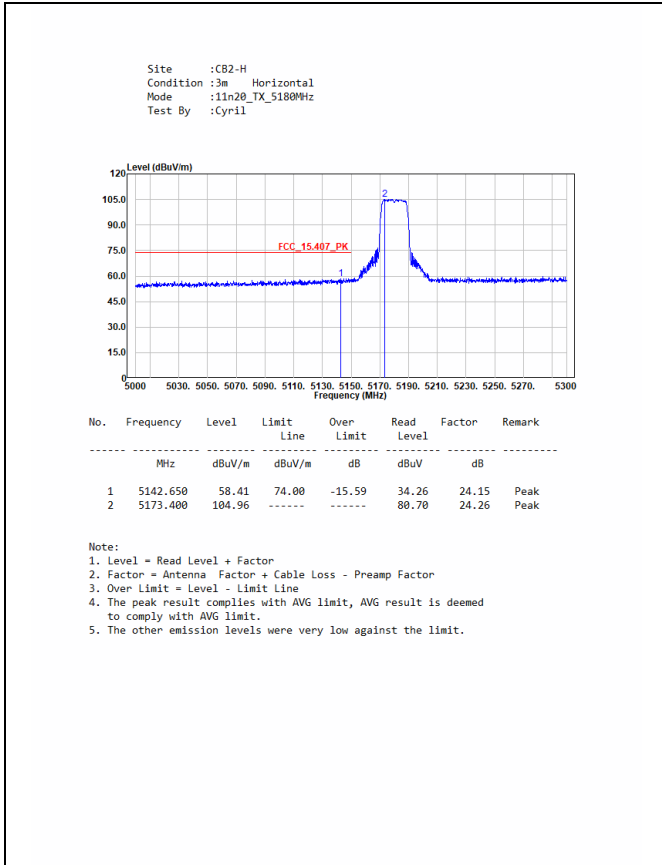
### 8.5. Test Result of Radiated Emission Band Edge

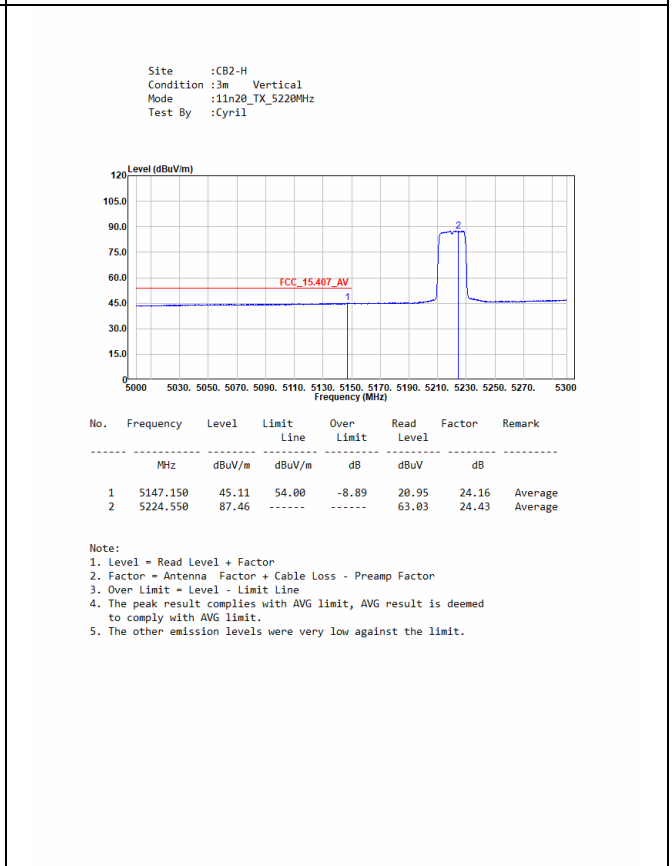
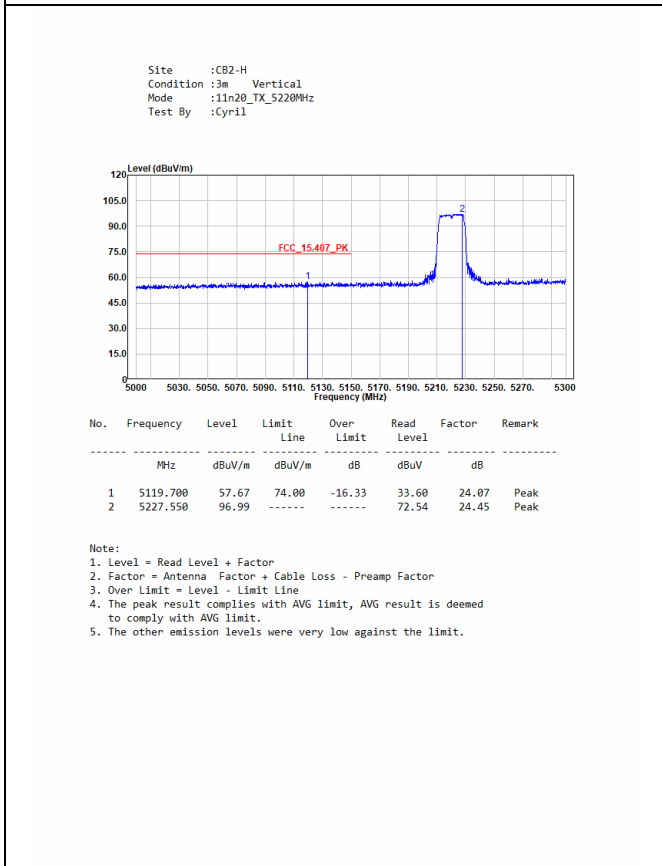
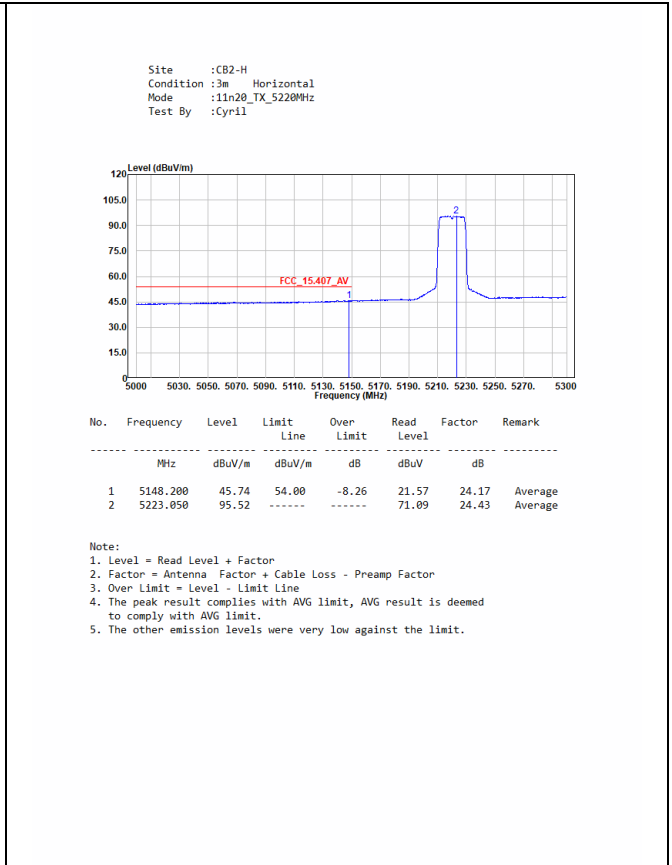
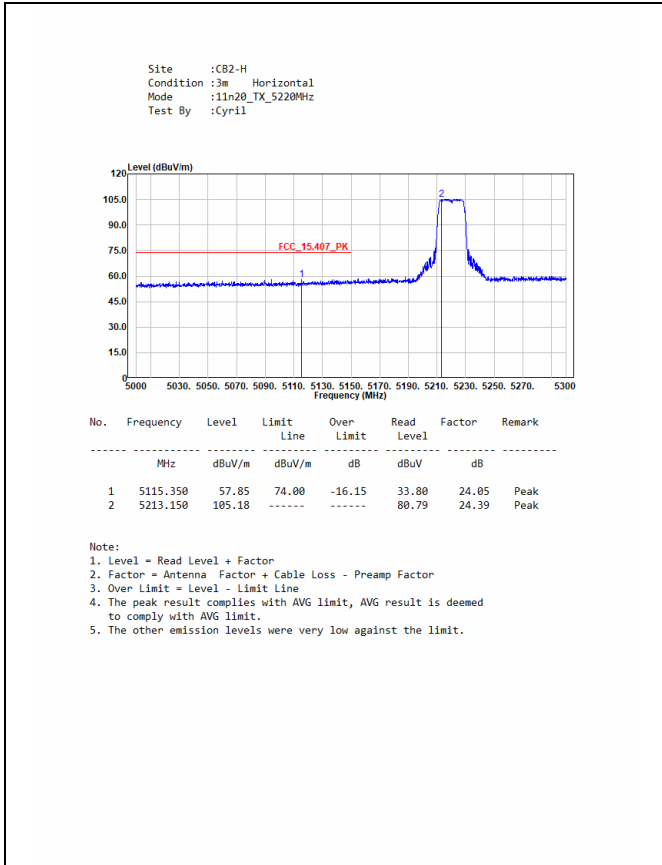
<For EUT 1>  
For U-NII-1:



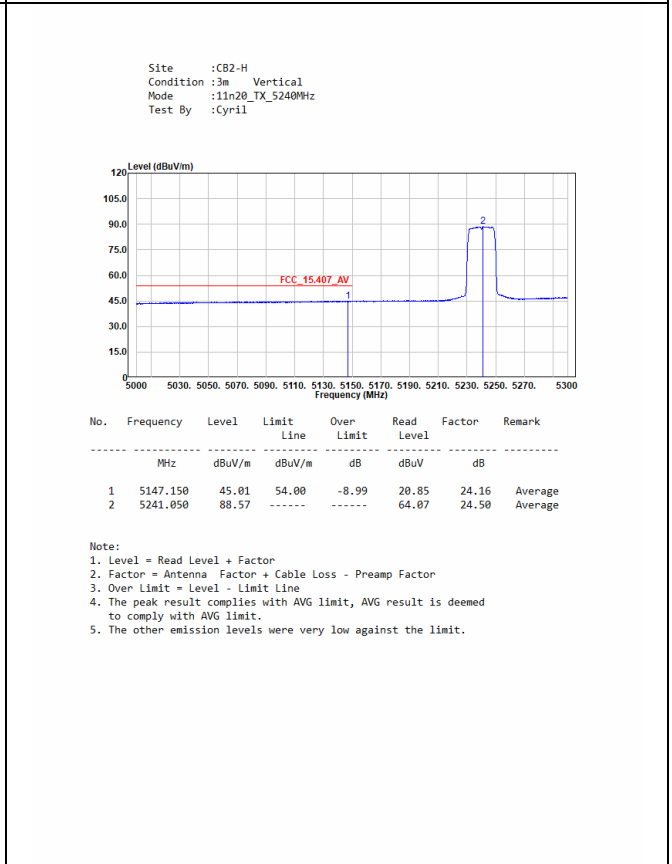
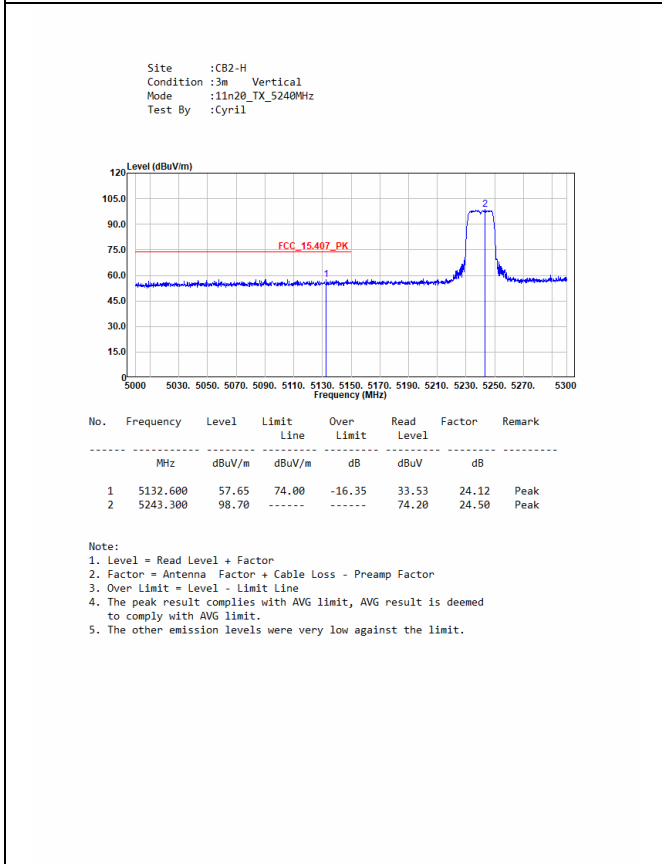
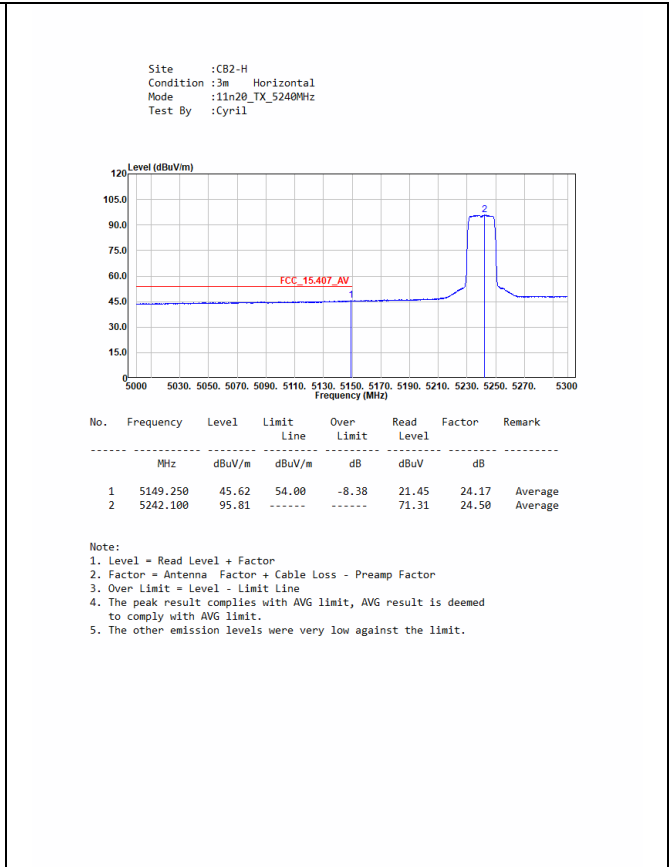
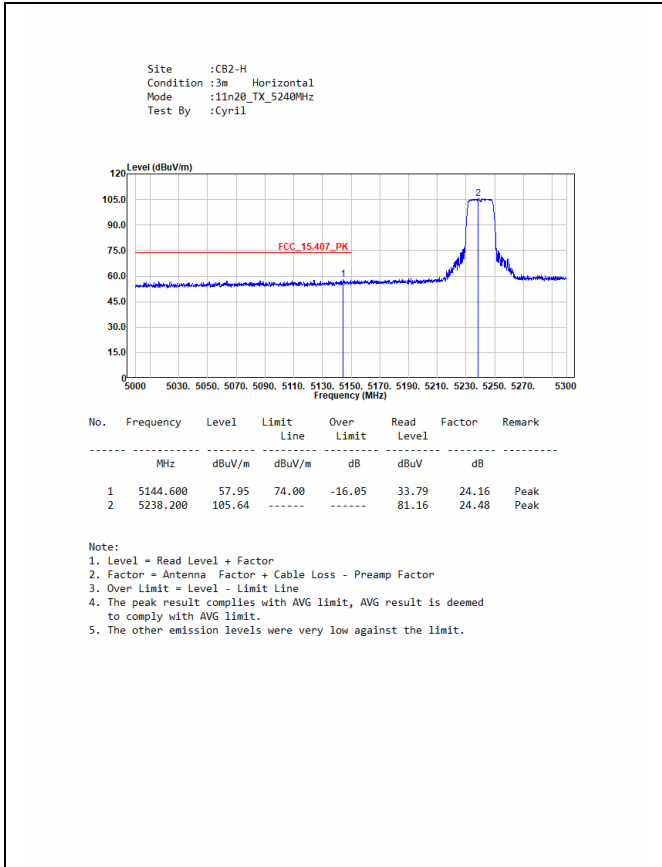


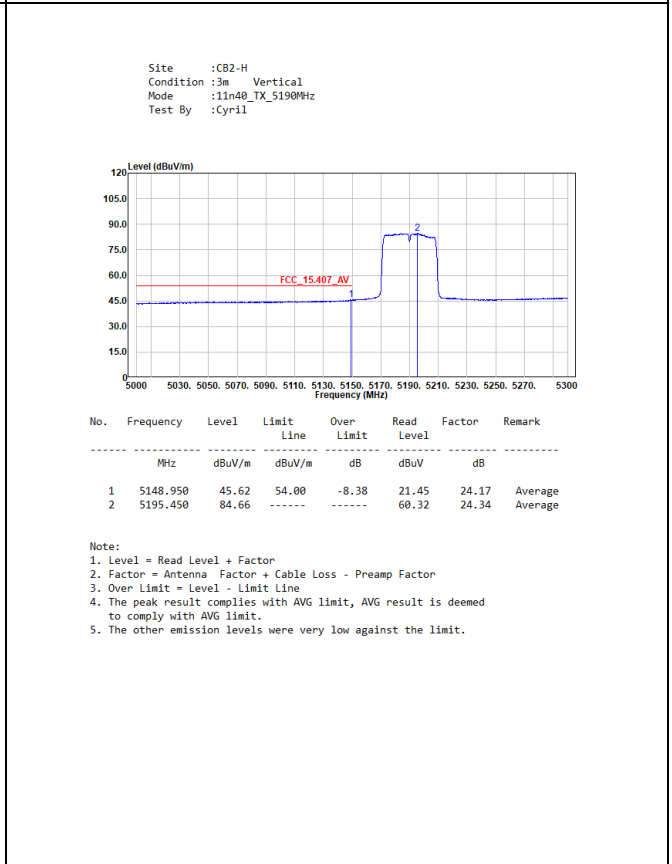
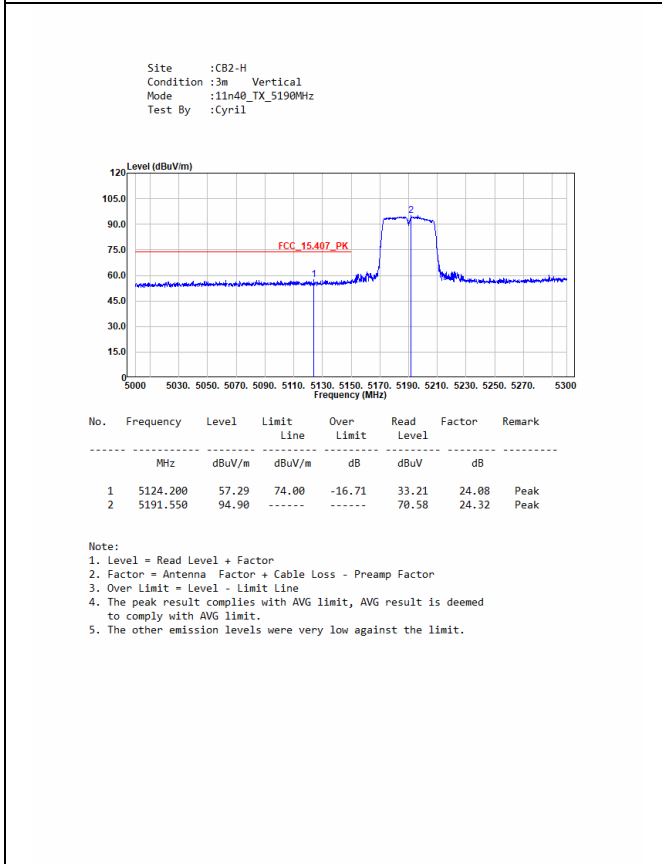
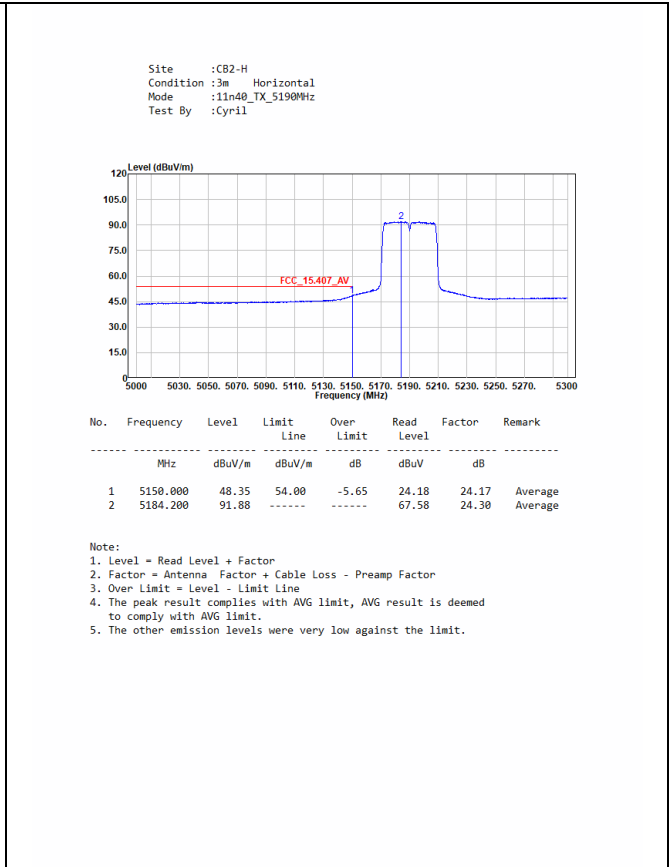
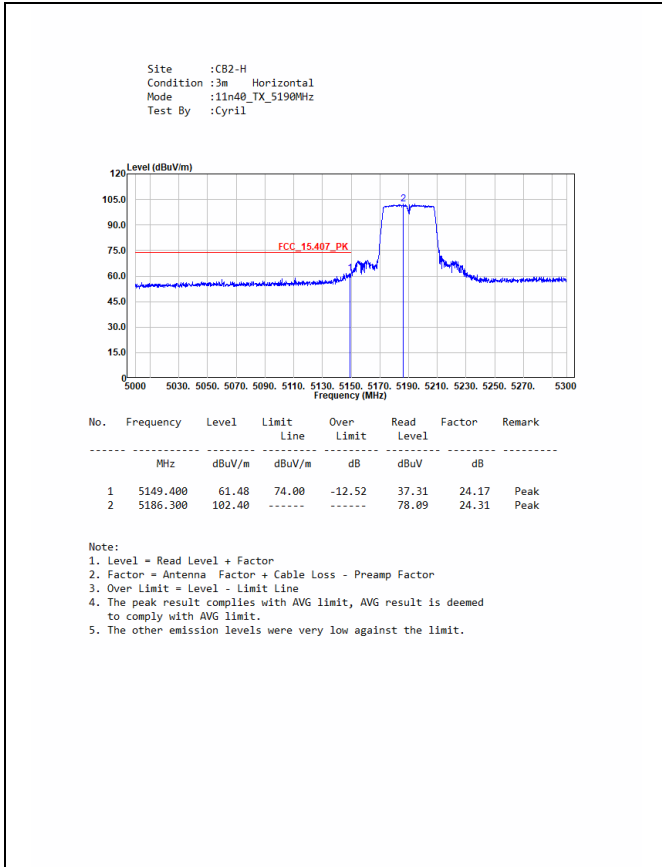


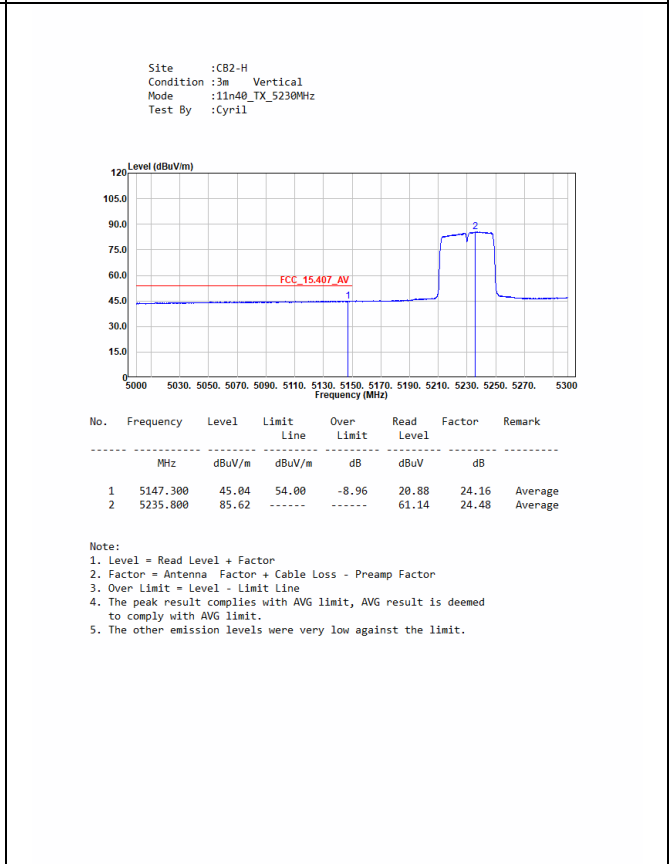
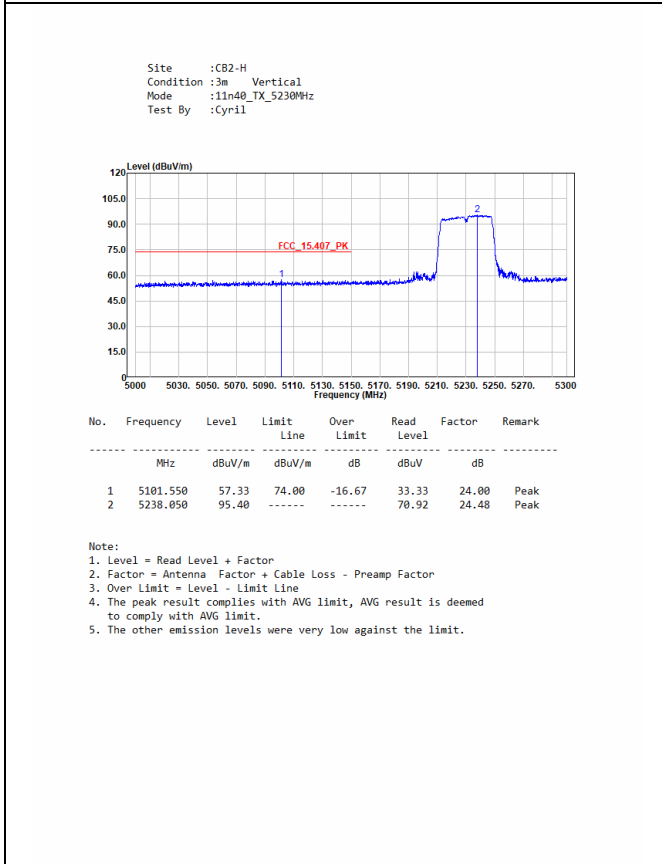
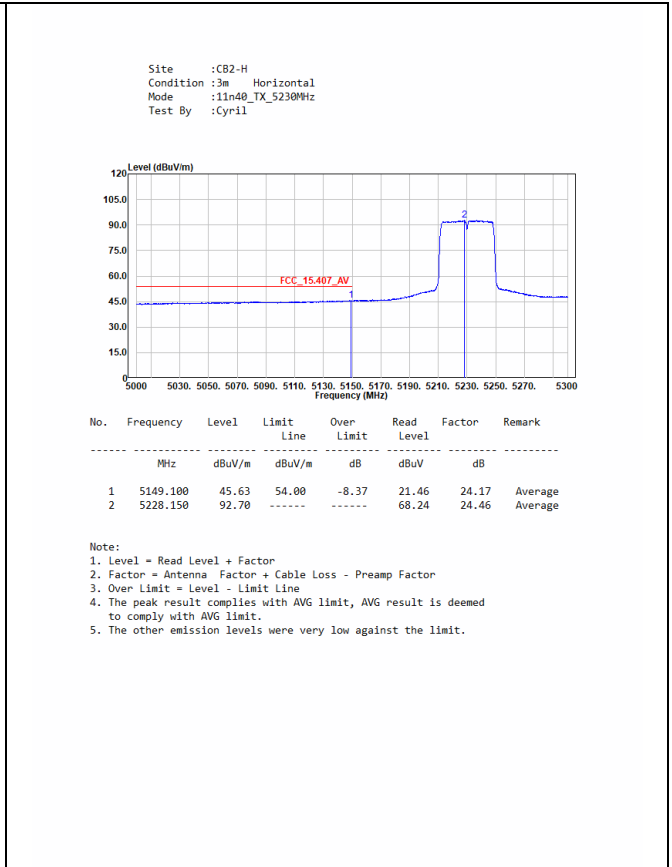
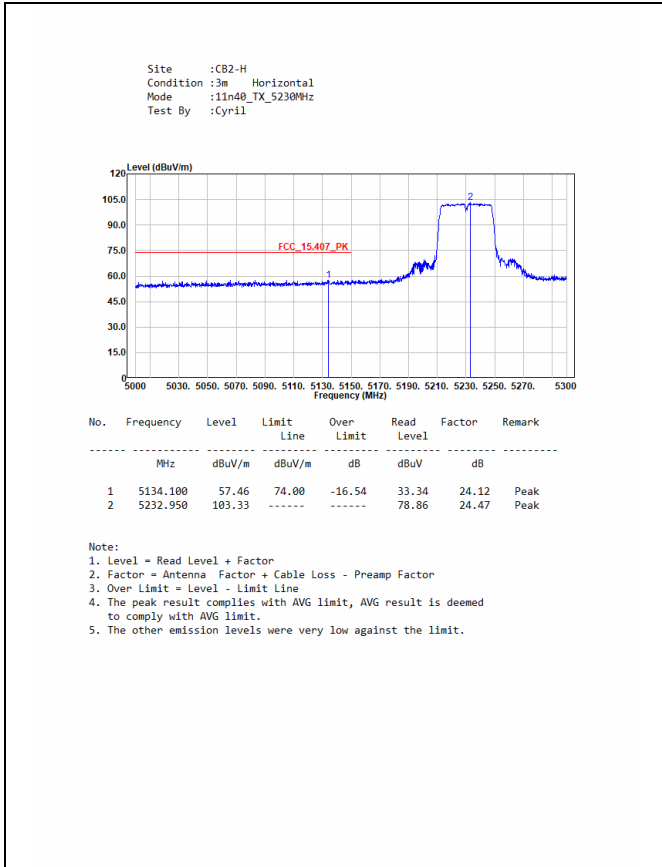






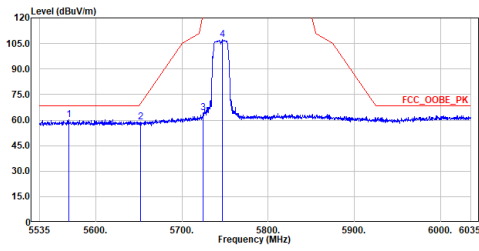






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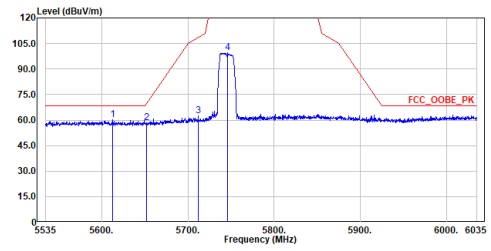
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 Condition :3m Horizontal  
 Mode :11a\_TX\_5745MHz  
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5568.500	60.18	68.20	-8.02	34.41	25.77	Peak
2	5651.750	58.66	69.50	-10.84	32.45	26.21	Peak
3	5725.000	64.31	122.20	-57.89	37.72	26.59	Peak
4	5747.250	107.22	-----	-----	80.50	26.72	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.

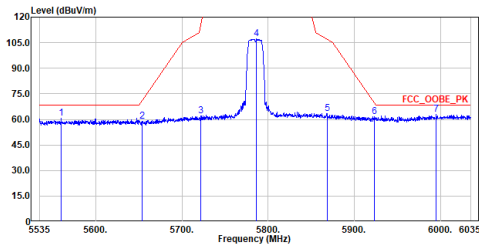
Site :CB2-H  
 Condition :3m Vertical  
 Mode :11a\_TX\_5745MHz  
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5612.500	60.03	68.20	-8.17	34.03	26.00	Peak
2	5651.750	58.54	69.50	-10.96	32.33	26.21	Peak
3	5712.000	62.66	108.56	-45.90	36.13	26.53	Peak
4	5746.500	99.61	-----	-----	72.89	26.72	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.

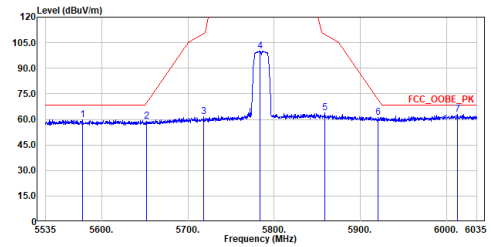
Site :CB2-H  
 Condition :3m Horizontal  
 Mode :11a\_TX\_5785MHz  
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5559.750	60.81	68.20	-7.39	35.08	25.73	Peak
2	5654.000	58.88	71.17	-12.29	32.67	26.21	Peak
3	5722.250	62.17	115.93	-53.76	35.59	26.58	Peak
4	5786.750	107.30	-----	-----	80.38	26.92	Peak
5	5868.750	63.37	106.95	-43.58	36.01	27.36	Peak
6	5923.000	61.48	69.69	-8.21	33.84	27.64	Peak
7	5995.000	62.76	68.20	-5.44	34.73	28.03	Peak

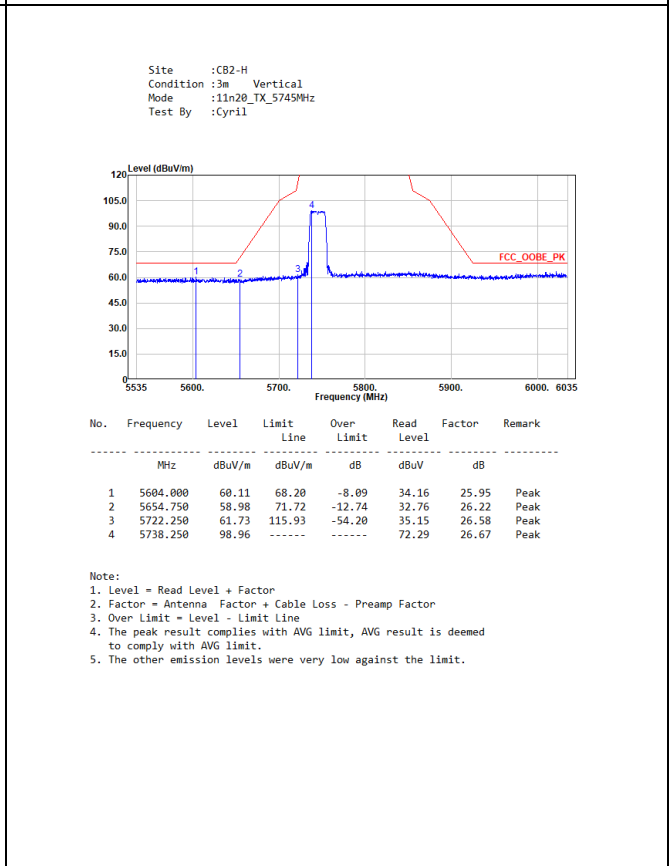
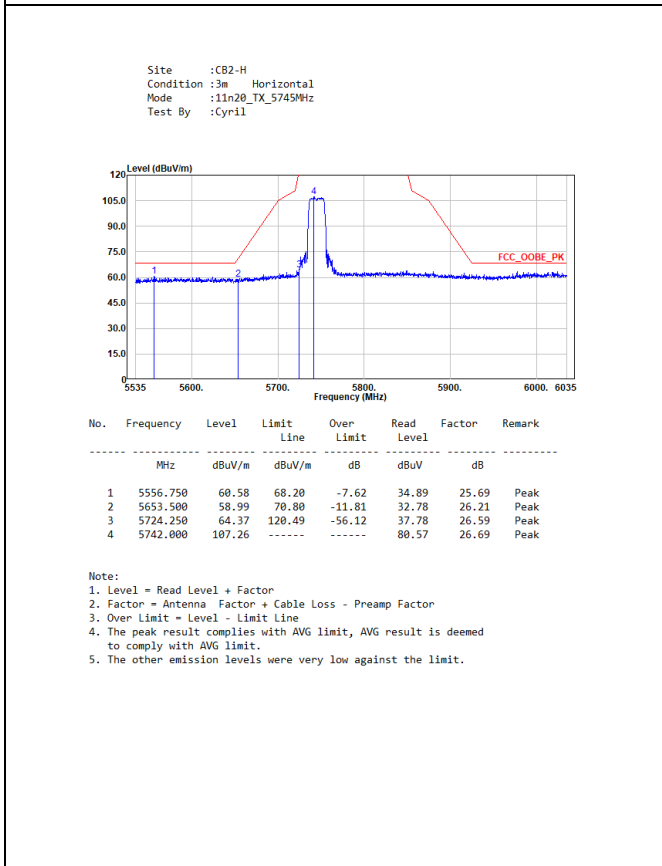
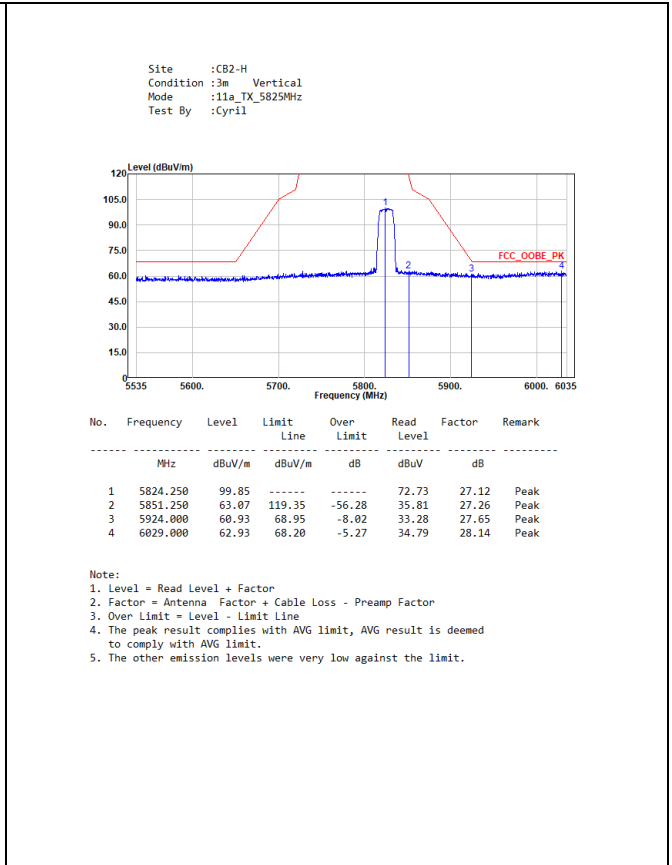
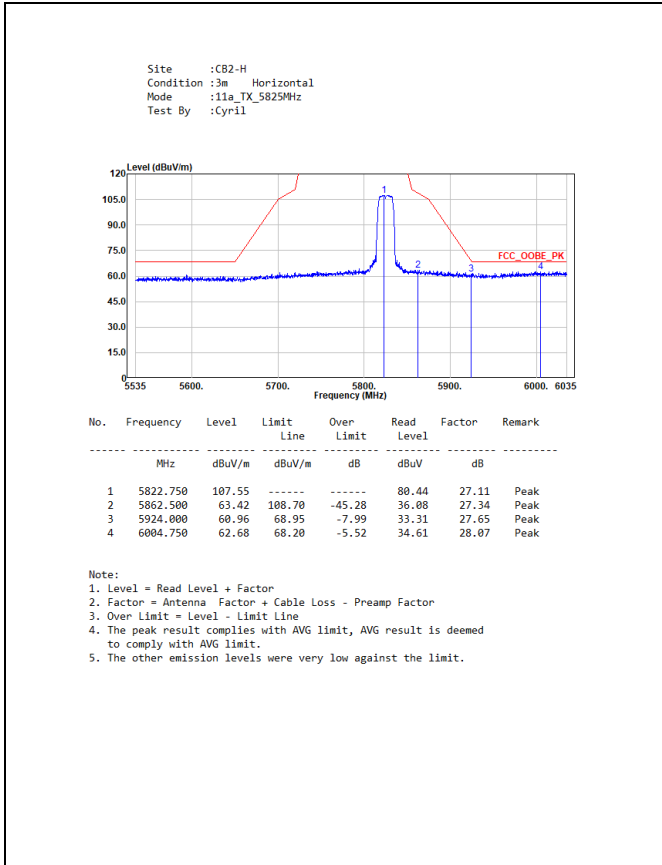
Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.

Site :CB2-H  
 Condition :3m Vertical  
 Mode :11a\_TX\_5785MHz  
 Test By :Cyril

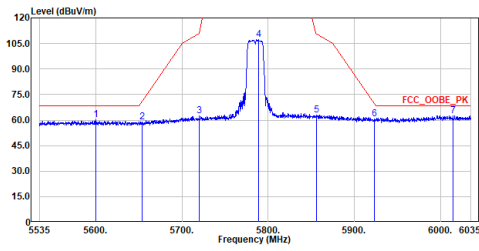


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5578.250	59.74	68.20	-8.46	33.92	25.82	Peak
2	5652.250	59.01	69.87	-10.86	32.00	26.21	Peak
3	5718.750	61.79	110.45	-48.66	35.22	26.57	Peak
4	5783.500	100.00	-----	-----	73.09	26.91	Peak
5	5858.500	63.93	109.82	-45.89	36.62	27.31	Peak
6	5920.500	61.24	71.54	-10.30	33.61	27.63	Peak
7	6013.000	62.96	68.20	-5.24	34.87	28.09	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.



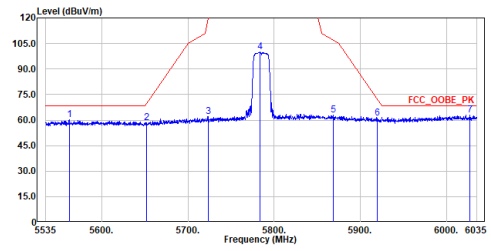
Site :CB2-H  
 Condition :3m Horizontal  
 Mode :11n20\_TX\_5785MHz  
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5600.500	60.15	68.20	-8.05	34.22	25.93	Peak
2	5653.500	59.04	70.80	-11.76	32.83	26.21	Peak
3	5720.000	62.27	110.80	-48.53	35.70	26.57	Peak
4	5789.250	107.39	-----	-----	80.46	26.93	Peak
5	5856.250	62.91	110.45	-47.54	35.62	27.29	Peak
6	5923.500	60.47	69.32	-8.85	32.83	27.64	Peak
7	6014.250	62.53	68.20	-5.67	34.43	28.10	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.

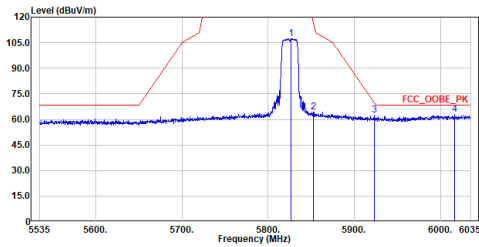
Site :CB2-H  
 Condition :3m Vertical  
 Mode :11n20\_TX\_5785MHz  
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5562.250	60.17	68.20	-8.03	34.44	25.73	Peak
2	5652.500	58.54	70.06	-11.52	32.33	26.21	Peak
3	5723.750	61.96	119.35	-57.39	35.37	26.59	Peak
4	5783.500	99.93	-----	-----	73.02	26.91	Peak
5	5868.500	62.73	107.02	-44.29	35.37	27.36	Peak
6	5920.000	61.10	71.91	-10.81	33.47	27.63	Peak
7	6026.750	63.03	68.20	-5.17	34.90	28.13	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.

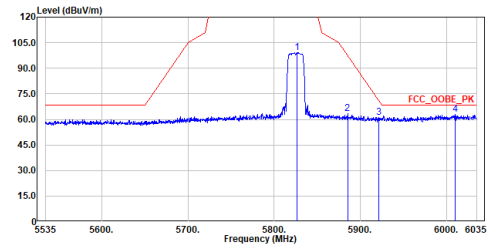
Site :CB2-H  
 Condition :3m Horizontal  
 Mode :11n20\_TX\_5825MHz  
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5826.750	107.30	-----	-----	80.15	27.15	Peak
2	5852.500	64.41	116.50	-52.09	37.14	27.27	Peak
3	5923.000	62.55	69.69	-7.14	34.91	27.64	Peak
4	6016.500	62.92	68.20	-5.28	34.82	28.10	Peak

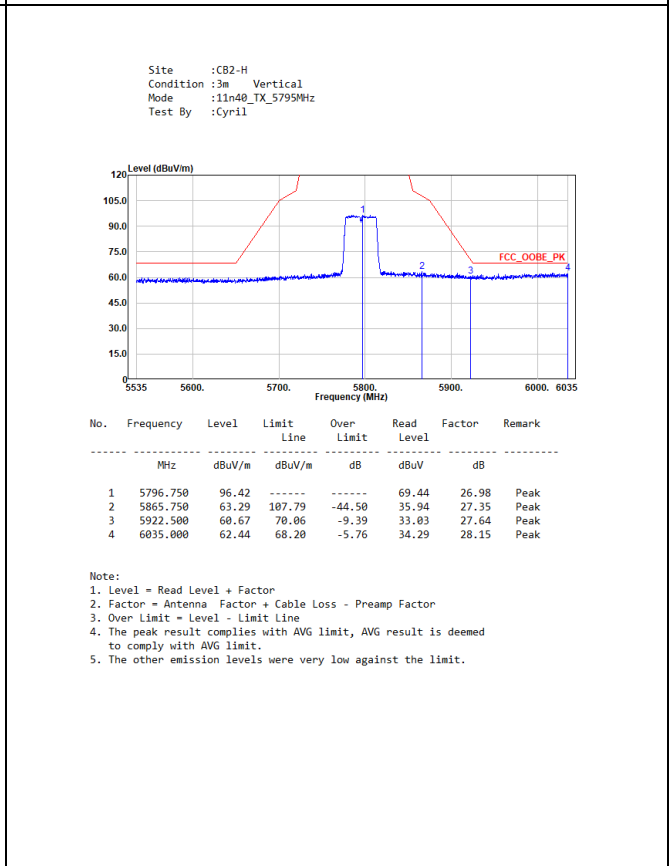
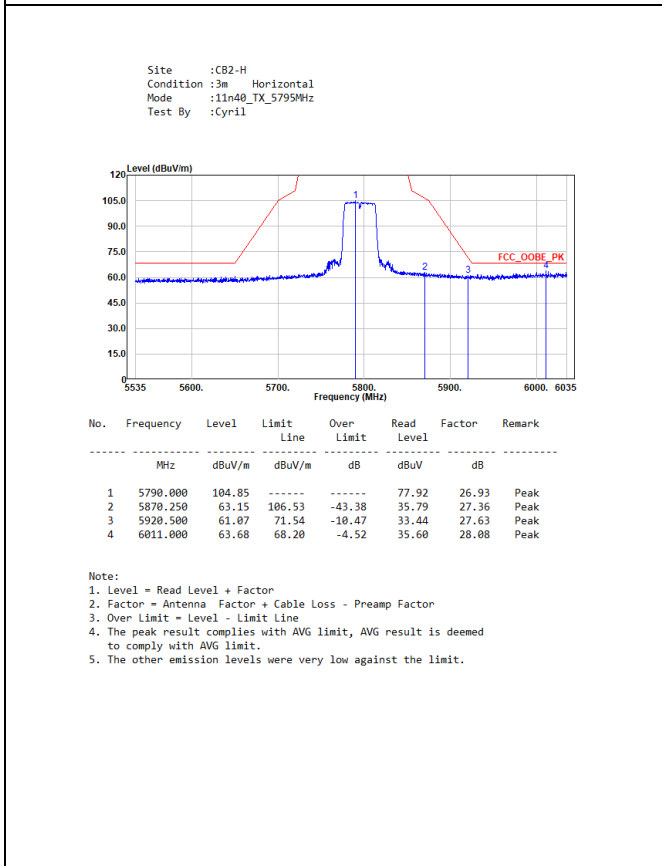
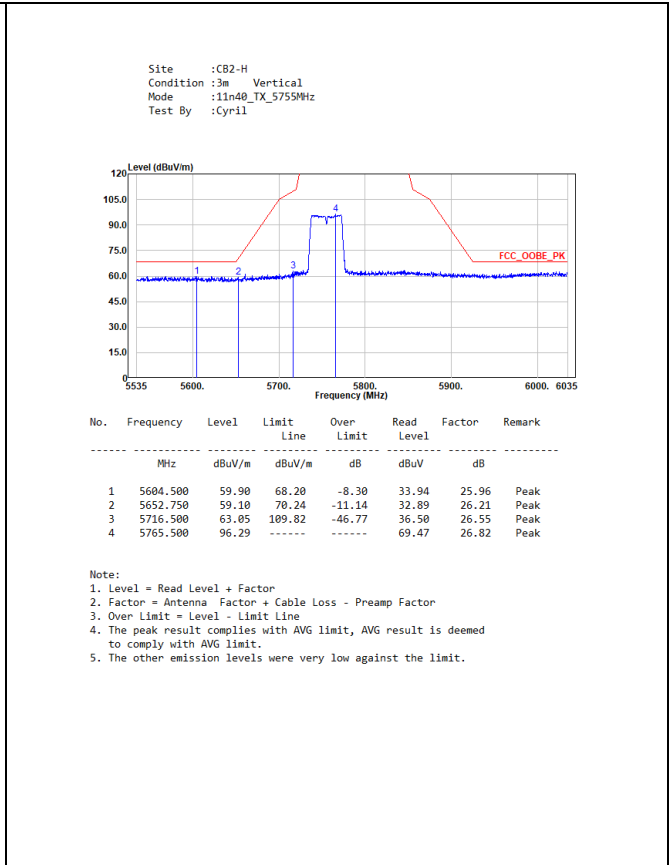
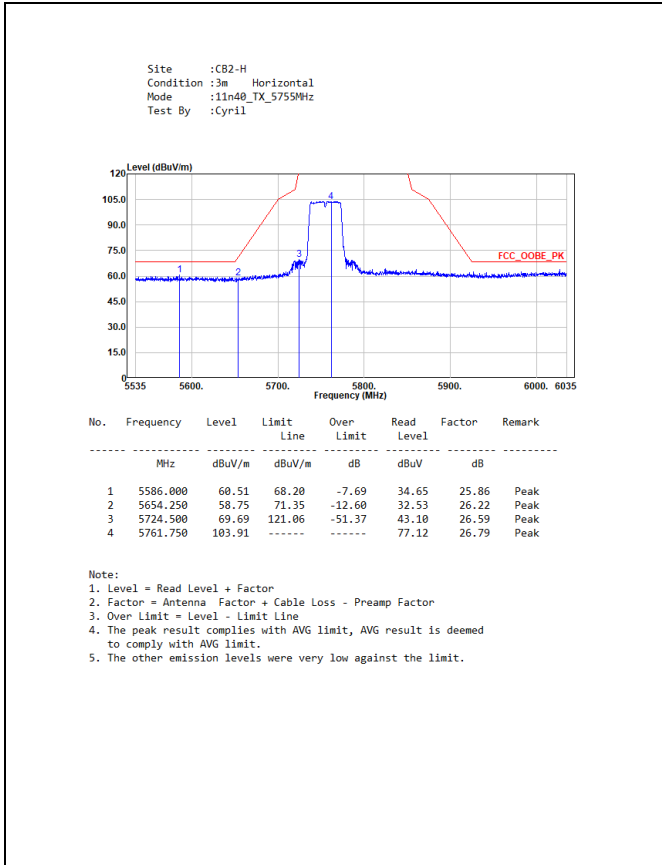
Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.

Site :CB2-H  
 Condition :3m Vertical  
 Mode :11n20\_TX\_5825MHz  
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5826.250	99.11	-----	-----	71.97	27.14	Peak
2	5885.250	63.29	97.62	-34.33	35.84	27.45	Peak
3	5921.750	61.09	70.61	-9.52	33.45	27.64	Peak
4	6009.750	62.72	68.20	-5.48	34.64	28.08	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor  
 3. Over Limit = Level - Limit Line  
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.  
 5. The other emission levels were very low against the limit.



<For EUT 2>

