FCC RADIO TEST REPORT

FCC ID	:	**UZ7CC600**
Equipment	:	**Customer Concierge**
Brand Name	:	**ZEBRA**
Model name	:	**CC600**
Applicant	:	**Zebra Technologies Corporation** **1 Zebra Plaza, Holtsville, NY 11742**
Manufacturer	:	**Zebra Technologies Corporation** **1 Zebra Plaza, Holtsville, NY 11742**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Jul. 31, 2019 and testing was started from Aug. 21, 2019 and completed on Oct. 24, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR911110-03E	01	Initial issue of report	Nov. 14, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.403 (i)	6dB & 26dB Bandwidth	Not Required	-
-	2.1049	99% Occupied Bandwidth	Not Required	-
-	15.407 (a)	Maximum Conducted Output Power	Pass	-
3.2	15.407 (a)	Power Spectral Density	Pass	-
3.3	15.407(b)	Unwanted Emissions	Pass	Under limit 0.54 dB at 84.3200 MHz
-	15.207	AC Conducted Emission	Not Required	-
-	15.407 (c)	Automatically Discontinue Transmission	Not Required	-
3.4	15.203 & 15.407 (a)	Antenna Requirement	Pass	-

Remark:

1. Not required means after assessing, test items are not necessary to carry out.
2. This is a variant report by changing antenna to external dipole antenna. All the test cases were performed on original report which can be referred to Sporton Report Number FR911110E. Based on the original report, the test cases were verified.

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Vivian Hsu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Customer Concierge
Brand Name	ZEBRA
Model Name	CC600
FCC ID	UZ7CC600
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	DV
SW Version	01-18-02.00-OG-U00-STD
FW Version	FUSION_QA_2_1.4.0.002_O
MFD	30JUL19
EUT Stage	Engineering Sample

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
AC Adaptor	**Brand Name**	ZEBRA	**Part Number**	PWR-BUA5V16W0WW
DC Cable	**Brand Name**	ZEBRA	**Part Number**	CBL-DC-383A1-01
AC Cable	**Brand Name**	ZEBRA	**Part Number**	50-16000-182R

Support Unit Used in Test Configuration and System				
POE	**Brand Name**	Microsemi	**Part Number**	PD-9501GR/AC

1.2 Product Specification of Equipment Under Test

<table>
<tr><th colspan="2">Standards-related Product Specification</th></tr>
<tr><td>Tx/Rx Channel Frequency Range</td><td>5745 MHz ~ 5825 MHz</td></tr>
<tr><td>Maximum Output Power to Antenna
<CDD Modes></td><td><Ant. 1>
802.11a : 21.00 dBm / 0.1259 W
802.11n HT20 : 20.50 dBm / 0.1122 W
802.11n HT40 : 20.70 dBm / 0.1175 W
802.11ac VHT20: 20.40 dBm / 0.1096 W
802.11ac VHT40: 20.60 dBm / 0.1148 W
802.11ac VHT80: 20.30 dBm / 0.1072 W
<Ant. 2>
802.11a : 20.20 dBm / 0.1047 W
802.11n HT20 : 20.00 dBm / 0.1000 W
802.11n HT40 : 19.80 dBm / 0.0955 W
802.11ac VHT20: 19.90 dBm / 0.0977 W
802.11ac VHT40: 19.70 dBm / 0.0933 W
802.11ac VHT80: 18.90 dBm / 0.0776 W
MIMO <Ant. 1 + 2>
802.11a : 22.97 dBm / 0.1982 W
802.11n HT20 : 22.92 dBm / 0.1959 W
802.11n HT40 : 22.66 dBm / 0.1845 W
802.11ac VHT20: 22.82 dBm / 0.1914 W
802.11ac VHT40: 22.56 dBm / 0.1803 W
802.11ac VHT80: 22.51 dBm / 0.1782 W</td></tr>
<tr><td>Maximum Output Power
<TXBF Modes></td><td>MIMO <Ant. 1 + 2>
802.11ac VHT20: 21.61 dBm / 0.1449 W
802.11ac VHT40: 21.84 dBm / 0.1528 W
802.11ac VHT80: 21.11 dBm / 0.1291 W</td></tr>
<tr><td>Antenna Gain / Gain</td><td>Ant. 1: External Dipole Antenna with gain 2.30 dBi
Ant. 2: External Dipole Antenna with gain 2.30 dBi</td></tr>
<tr><td>Type of Modulation</td><td>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)</td></tr>
<tr><td>Antenna Function Description</td><td>
<table>
<tr><th></th><th>Ant. 1</th><th>Ant. 2</th></tr>
<tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr>
<tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr>
<tr><td>802.11ac TXBF</td><td>V</td><td>V</td></tr>
</table>
</td></tr>
</table>

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH05-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH15-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW0007

1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated:, radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in two configuration of External Antenna (Antenna lying 40 degree and upstanding tilt 40 degree). The worst cases (Antenna lying 40 degree) were recorded in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80.

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Single Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

TXBF Mode

Modulation	Data Rate
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

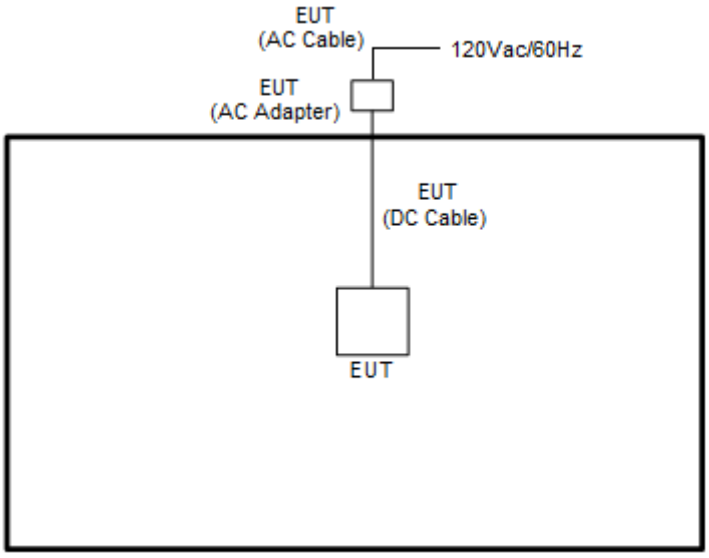
<CDD Mode>

Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

<TXBF Mode>

Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

2.3 rConnection Diagram of Test System



2.4 EUT Operation Test Setup

The RF test items, utility “QRCT v3.0.298.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “adb” software tool was used to enable the EUT to transmit signals continuously.

2.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

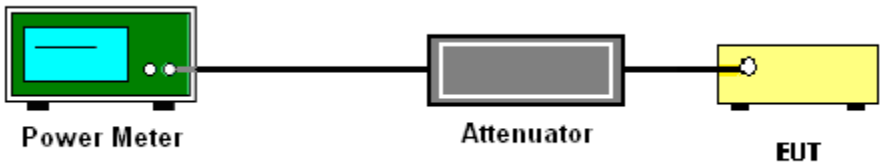
3.1.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Test Engineer :	Shiming Liu and Eason Huang	Temperature :	21~25°C
		Relative Humidity :	51~54%

<CDD Mode>

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	20.20	20.00		30.00	30.00	2.30	2.30	Pass
11a	6Mbps	1	157	5785	20.90	19.90		30.00	30.00	2.30	2.30	Pass
11a	6Mbps	1	165	5825	21.00	20.20		30.00	30.00	2.30	2.30	Pass
HT20	MCS0	1	149	5745	20.50	19.80		30.00	30.00	2.30	2.30	Pass
HT20	MCS0	1	157	5785	20.20	19.80		30.00	30.00	2.30	2.30	Pass
HT20	MCS0	1	165	5825	20.50	20.00		30.00	30.00	2.30	2.30	Pass
HT40	MCS0	1	151	5755	20.70	19.60		30.00	30.00	2.30	2.30	Pass
HT40	MCS0	1	159	5795	20.20	19.80		30.00	30.00	2.30	2.30	Pass
VHT20	MCS0	1	149	5745	20.40	19.70		30.00	30.00	2.30	2.30	Pass
VHT20	MCS0	1	157	5785	20.10	19.70		30.00	30.00	2.30	2.30	Pass
VHT20	MCS0	1	165	5825	20.40	19.90		30.00	30.00	2.30	2.30	Pass
VHT40	MCS0	1	151	5755	20.60	19.50		30.00	30.00	2.30	2.30	Pass
VHT40	MCS0	1	159	5795	20.10	19.70		30.00	30.00	2.30	2.30	Pass
VHT80	MCS0	1	155	5775	20.30	18.90		30.00	30.00	2.30	2.30	Pass
11a	6Mbps	2	149	5745	20.20	19.70	22.97	30.00		2.30		Pass
11a	6Mbps	2	157	5785	19.00	19.00	22.01	30.00		2.30		Pass
11a	6Mbps	2	165	5825	20.20	19.70	22.97	30.00		2.30		Pass
HT20	MCS0	2	149	5745	20.20	19.60	22.92	30.00		2.30		Pass
HT20	MCS0	2	157	5785	18.40	18.30	21.36	30.00		2.30		Pass
HT20	MCS0	2	165	5825	19.70	19.60	22.66	30.00		2.30		Pass
HT40	MCS0	2	151	5755	19.70	19.60	22.66	30.00		2.30		Pass
HT40	MCS0	2	159	5795	19.60	19.50	22.56	30.00		2.30		Pass
VHT20	MCS0	2	149	5745	20.10	19.50	22.82	30.00		2.30		Pass
VHT20	MCS0	2	157	5785	18.30	18.20	21.26	30.00		2.30		Pass
VHT20	MCS0	2	165	5825	19.60	19.50	22.56	30.00		2.30		Pass
VHT40	MCS0	2	151	5755	19.60	19.50	22.56	30.00		2.30		Pass
VHT40	MCS0	2	159	5795	19.50	19.40	22.46	30.00		2.30		Pass
VHT80	MCS0	2	155	5775	19.50	19.50	22.51	30.00		2.30		Pass

<TXBF Mode>

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	149	5745	18.00	18.90	21.48	30.00		5.31		Pass
VHT20	MCS0	2	157	5785	17.90	19.10	21.55	30.00		5.31		Pass
VHT20	MCS0	2	165	5825	17.90	19.20	21.61	30.00		5.31		Pass
VHT40	MCS0	2	151	5755	18.30	18.80	21.57	30.00		5.31		Pass
VHT40	MCS0	2	159	5795	18.30	19.30	21.84	30.00		5.31		Pass
VHT80	MCS0	2	155	5775	17.90	18.30	21.11	30.00		5.31		Pass

3.2 Power Spectral Density Measurement

3.2.1 Limit of Power Spectral Density

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

 # Method SA-3 #

(power averaging (rms) detection with max hold):

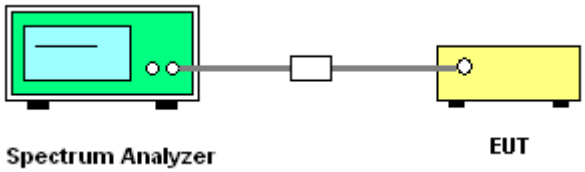
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (c): Measure and add 10 log(N_{ANT}) dB.

   With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit. The addition of 10 log(N_{ANT}) dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{ANT}$ th of the PSD limit.

3.2.4 Test Setup



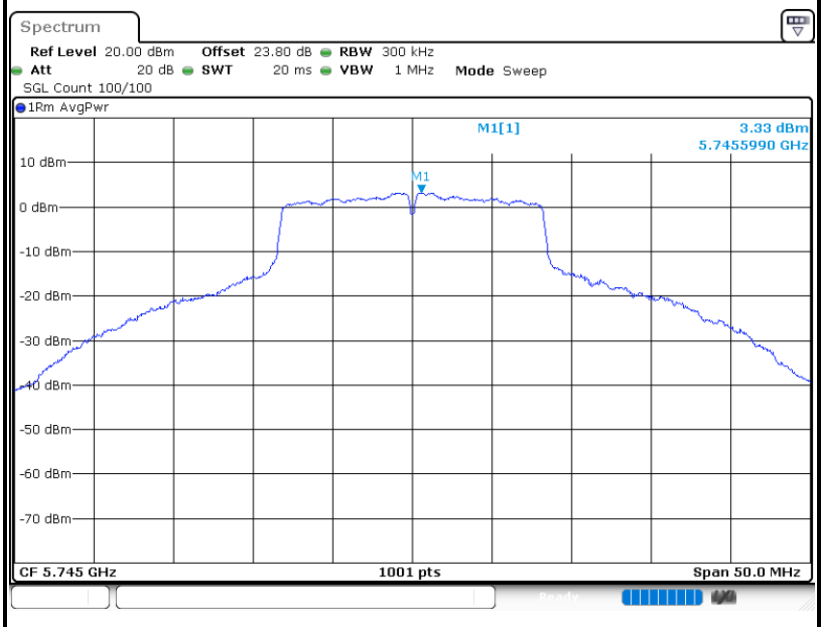
3.2.5 Test Result of Power Spectral Density

Test Engineer :	Shiming Liu and Eason Huang	Temperature :	21~25°C
		Relative Humidity :	51~54%

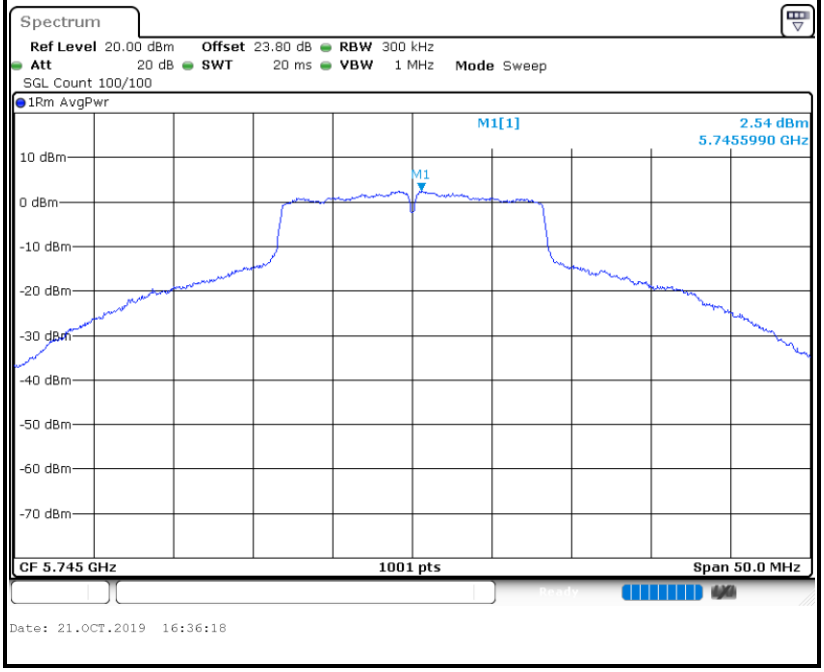
<CDD Modes>

Band IV																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.21	0.18	2.22	2.22	5.82	5.35		30.00	30.00	2.30	2.30	Pass
11a	6Mbps	1	157	5785	0.21	0.18	2.22	2.22	6.11	5.25		30.00	30.00	2.30	2.30	Pass
11a	6Mbps	1	165	5825	0.21	0.18	2.22	2.22	6.09	5.41		30.00	30.00	2.30	2.30	Pass
HT20	MCS0	1	149	5745	0.22	0.21	2.22	2.22	5.61	4.98		30.00	30.00	2.30	2.30	Pass
HT20	MCS0	1	157	5785	0.22	0.21	2.22	2.22	5.42	4.87		30.00	30.00	2.30	2.30	Pass
HT20	MCS0	1	165	5825	0.22	0.21	2.22	2.22	5.68	5.27		30.00	30.00	2.30	2.30	Pass
HT40	MCS0	1	151	5755	0.36	0.40	2.22	2.22	2.72	1.87		30.00	30.00	2.30	2.30	Pass
HT40	MCS0	1	159	5795	0.36	0.40	2.22	2.22	2.69	2.02		30.00	30.00	2.30	2.30	Pass
VHT80	MCS0	1	155	5775	0.69	0.70	2.22	2.22	-0.30	-1.69		30.00	30.00	2.30	2.30	Pass
11a	6Mbps	2	149	5745	0.19	0.20	2.22		5.74	4.96	8.75	30.00		5.31		Pass
11a	6Mbps	2	157	5785	0.19	0.20	2.22		4.61	4.82	7.83	30.00		5.31		Pass
11a	6Mbps	2	165	5825	0.19	0.20	2.22		5.70	4.95	8.71	30.00		5.31		Pass
HT20	MCS0	2	149	5745	0.21	0.21	2.22		5.27	4.74	8.28	30.00		5.31		Pass
HT20	MCS0	2	157	5785	0.21	0.21	2.22		3.27	3.65	6.66	30.00		5.31		Pass
HT20	MCS0	2	165	5825	0.21	0.21	2.22		4.68	4.73	7.74	30.00		5.31		Pass
HT40	MCS0	2	151	5755	0.35	0.37	2.22		2.17	1.59	5.18	30.00		5.31		Pass
HT40	MCS0	2	159	5795	0.35	0.37	2.22		1.87	1.61	4.88	30.00		5.31		Pass
VHT80	MCS0	2	155	5775	0.66	0.66	2.22		-1.12	-1.51	1.89	30.00		5.31		Pass

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



Worst Case Power Density (dBm/MHz) for MIMO Ant. 2

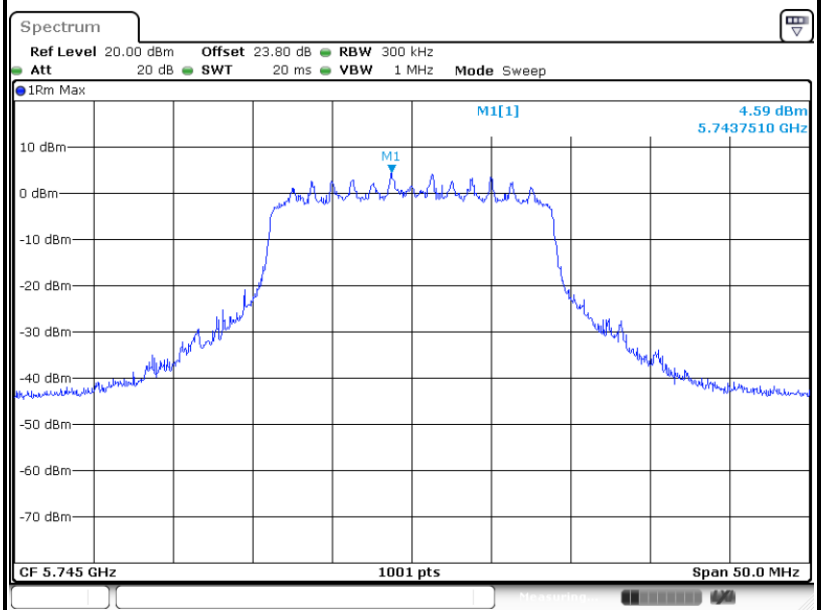


<TXBF Modes>

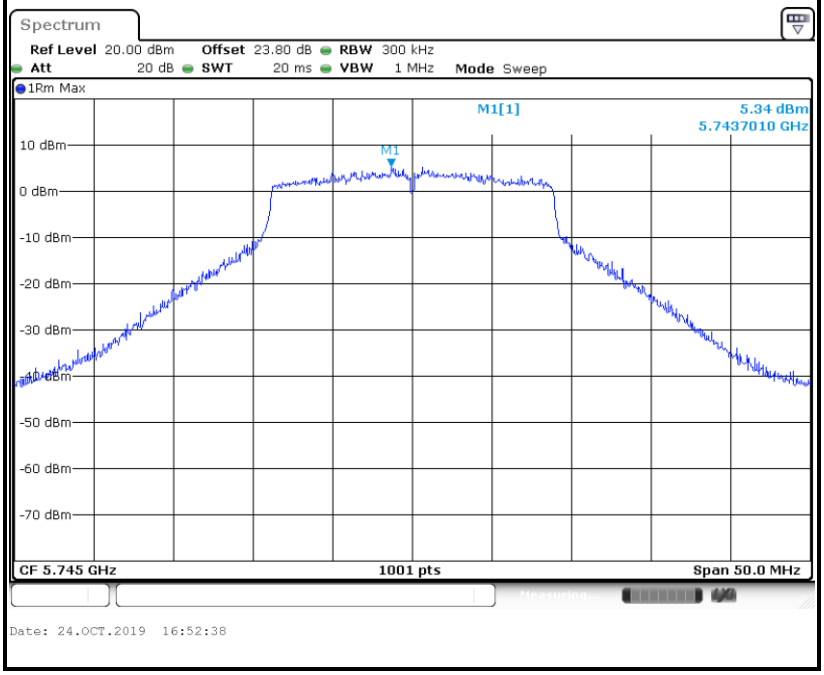
Band IV																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	149	5745	0.00	0.00	2.22		6.81	7.56	10.57	30.00		5.31		Pass
VHT20	MCS0	2	157	5785	0.00	0.00	2.22		6.42	7.56	10.57	30.00		5.31		Pass
VHT20	MCS0	2	165	5825	0.00	0.00	2.22		6.52	7.35	10.36	30.00		5.31		Pass
VHT40	MCS0	2	151	5755	0.00	0.00	2.22		4.08	4.06	7.09	30.00		5.31		Pass
VHT40	MCS0	2	159	5795	0.00	0.00	2.22		2.67	2.86	5.87	30.00		5.31		Pass
VHT80	MCS0	2	155	5775	0.00	0.00	2.22		3.04	3.40	6.41	30.00		5.31		Pass

<TXBF Modes>

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



3.3 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.3.1 Limit of Unwanted Emissions

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

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

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

Note: The following formula is used to convert the EIRP to field strength.

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(3) KDB789033 D02 v02r01 G)2)c)

(i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.3

(ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.[4]

Note 3: An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

Note 4: Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

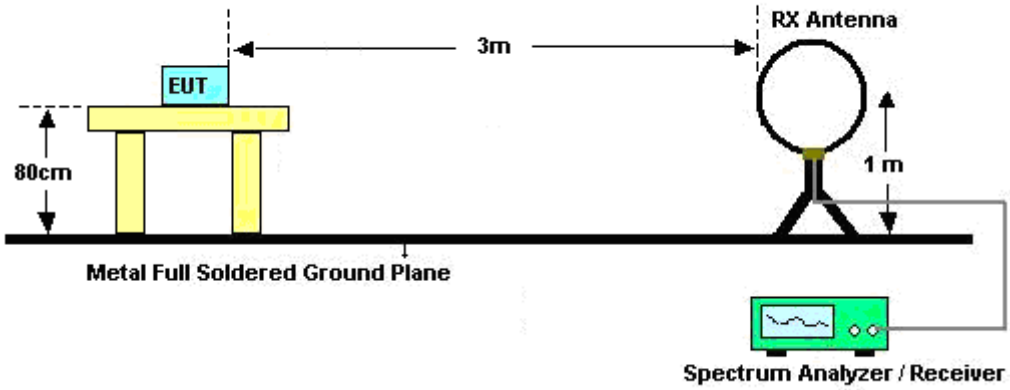
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is 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.

2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

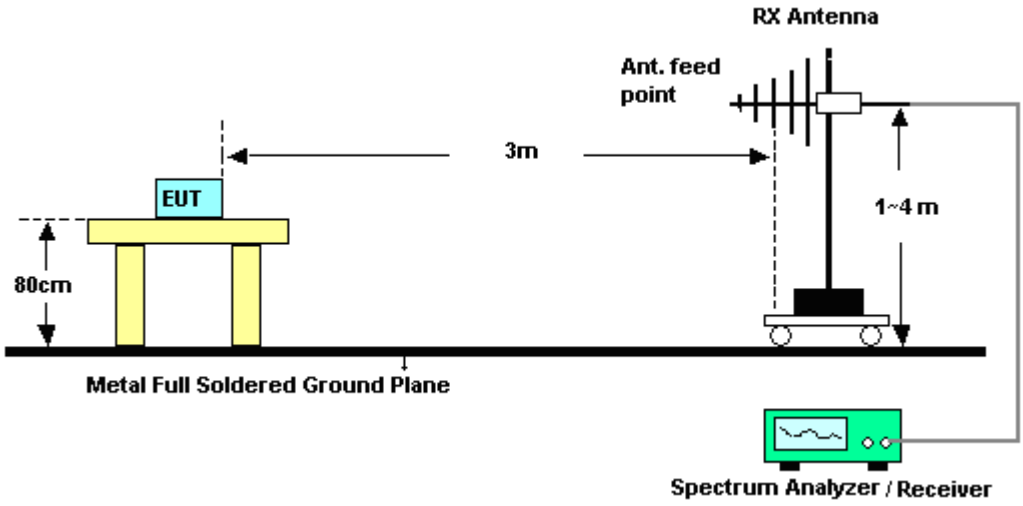
3.3.4 Test Setup

For radiated emissions below 30MHz

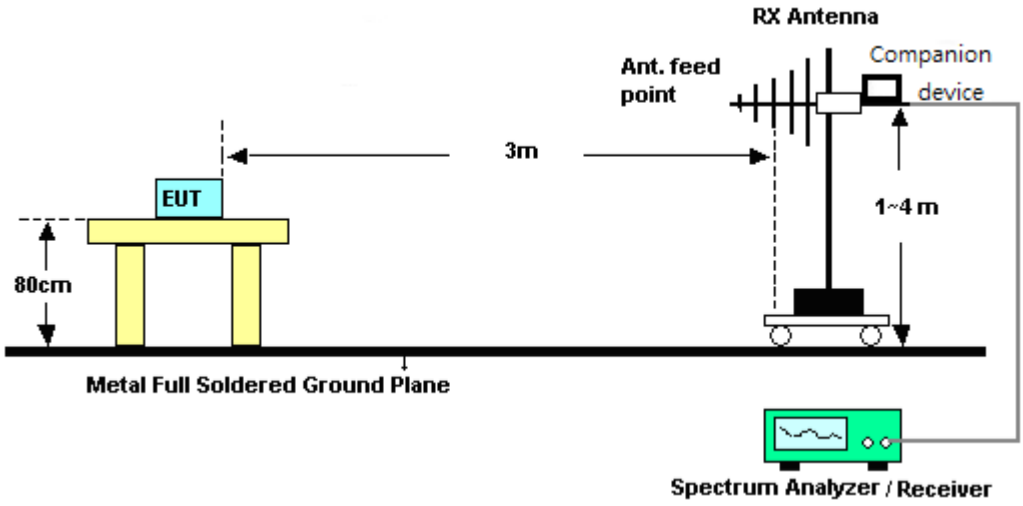


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

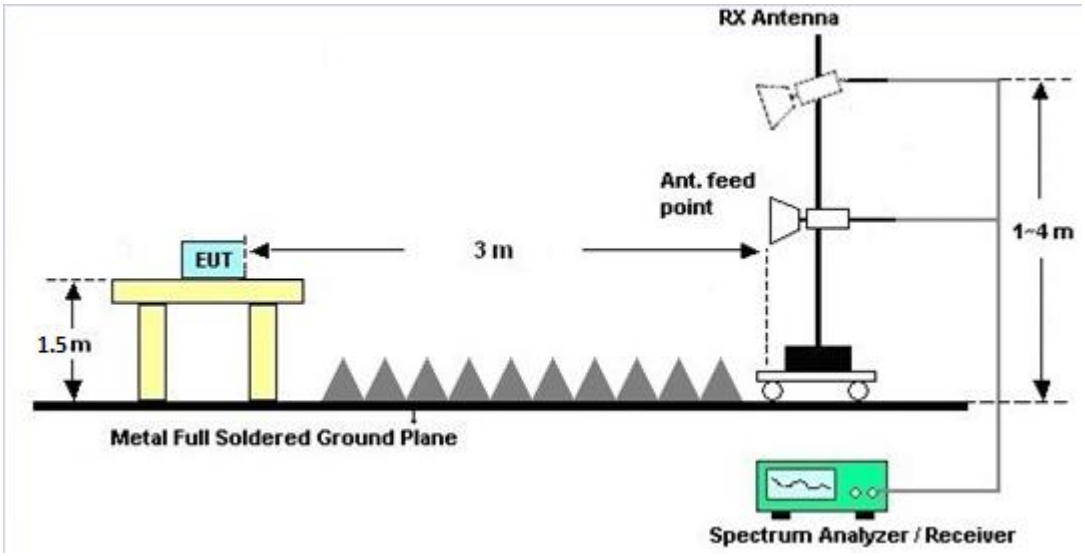


<TXBF Modes>

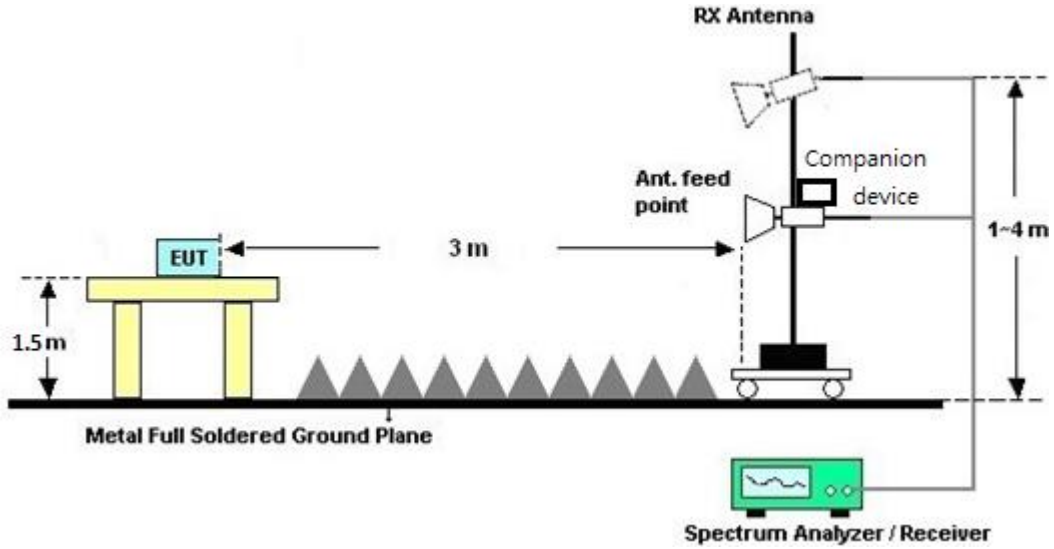


For radiated emissions above 1GHz

<CDD Mode>



<TXBF Modes>



3.3.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.3.6 Test Result of Radiated Band Edges

Please refer to Appendix A and B.

3.3.7 Duty Cycle

Please refer to Appendix C.

3.3.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix A and B.

3.4 Antenna Requirements

3.4.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

<CDD Modes>

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant. 1 (dBi)	Ant. 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	2.30	2.30	2.30	5.31	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	2.30	2.30	5.31	5.31	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Sep. 19, 2019~ Oct. 24, 2019	Jan. 06, 2020	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Sep. 19, 2019~ Oct. 24, 2019	Dec. 05, 2019	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D &00800N1 D01N-06	41912&05	30MHz to 1GHz	Feb. 12, 2019	Sep. 19, 2019~ Oct. 24, 2019	Feb. 11, 2020	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1620	1GHz~18GHz	Oct. 17, 2018	Sep. 19, 2019 ~ Oct. 15, 2019	Oct. 16, 2019	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-2114	1-18GHz	Jul. 31, 2019	Oct. 16, 2019 ~ Oct. 24, 2019	Jul. 30, 2020	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 05, 2018	Sep. 19, 2019~ Oct. 24, 2019	Dec. 04, 2019	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2018	Sep. 19, 2019~ Oct. 24, 2019	Dec. 27, 2019	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800054001	1GHz~18GHz	May 19, 2019	Sep. 19, 2019~ Oct. 24, 2019	May 18, 2020	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 23, 2019	Sep. 19, 2019~ Oct. 24, 2019	Aug. 22, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 01, 2018	Sep. 19, 2019~ Oct. 24, 2019	Oct. 31, 2019	Radiation (03CH15-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 27, 2018	Sep. 19, 2019~ Oct. 24, 2019	Dec. 26, 2019	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 19, 2019~ Oct. 24, 2019	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 19, 2019~ Oct. 24, 2019	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Sep. 19, 2019~ Oct. 24, 2019	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M-18G	Apr. 15, 2019	Sep. 19, 2019~ Oct. 24, 2019	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4PE	30M-18G	Apr. 15, 2019	Sep. 19, 2019~ Oct. 24, 2019	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY802430/4	30M~18GHz	May 13, 2019	Sep. 19, 2019~ Oct. 24, 2019	May 12, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 13, 2019	Sep. 19, 2019~ Oct. 24, 2019	Mar. 12, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 13, 2019	Sep. 19, 2019~ Oct. 24, 2019	Mar. 12, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WLJ4-1000-1530-6000-40ST	SN4	1.53G Low Pass	Jul. 04, 2019	Sep. 19, 2019~ Oct. 24, 2019	Jul. 03, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN6	6.75 GHz Highpass	Jul. 02, 2019	Sep. 19, 2019~ Oct. 24, 2019	Jul. 01, 2020	Radiation (03CH15-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
<CDD Mode>								
Power Sensor	DARE	RPR3006W	13I00030SNO32	9kHz~6GHz	Dec. 03, 2018	Aug. 21, 2019~ Oct. 23, 2019	Dec. 02, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Aug. 21, 2019~ Oct. 23, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Aug. 21, 2019~ Oct. 23, 2019	Mar. 26, 2020	Conducted (TH05-HY)
<TXBF Mode>								
Power Sensor	DARE	RPR3006W	13I00030SNO32	9kHz~6GHz	Dec. 03, 2018	Oct. 04, 2019~ Oct. 24, 2019	Dec. 02, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Oct. 04, 2019~ Oct. 24, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Oct. 04, 2019~ Oct. 24, 2019	Mar. 26, 2020	Conducted (TH05-HY)

5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.5**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2**

Appendix A. Radiated Spurious Emission

Test Engineer :	Leo Li, Karl Hou, Bigshow Wang	Temperature :	23~26°C
		Relative Humidity :	50~65%

<CDD Mode>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1	-	(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz	-	5637.6	50.85	-17.35	68.2	39.79	31.73	9.85	30.52	100	78	P	H
	-	5697	53.89	-49.1	102.99	42.78	31.8	9.86	30.55	100	78	P	H
	-	5719.8	69.51	-41.23	110.74	58.29	31.93	9.86	30.57	100	78	P	H
	-	5725	82.25	-39.95	122.2	71.03	31.93	9.86	30.57	100	78	P	H
	*	5745	117.35	-	-	106.07	32	9.86	30.58	100	78	P	H
	*	5745	109	-	-	97.72	32	9.86	30.58	100	78	A	H
													H
													H
	-	5605.4	51.42	-16.78	68.2	40.27	31.8	9.85	30.5	235	165	P	V
	-	5690.6	52.96	-45.31	98.27	41.85	31.8	9.86	30.55	235	165	P	V
	-	5719.2	66.96	-43.62	110.58	55.74	31.93	9.86	30.57	235	165	P	V
	-	5725	81.2	-41	122.2	69.98	31.93	9.86	30.57	235	165	P	V
	*	5745	114.48	-	-	103.2	32	9.86	30.58	235	165	P	V
	*	5745	106.15	-	-	94.87	32	9.86	30.58	235	165	A	V
													V
													V

WIFI Ant. 1	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5627.4	51	-17.2	68.2	39.89	31.77	9.85	30.51	100	79	P	H
	-	5689.6	50.28	-47.25	97.53	39.17	31.8	9.86	30.55	100	79	P	H
	-	5714.8	51.75	-57.6	109.35	40.58	31.87	9.86	30.56	100	79	P	H
	-	5722.6	51.67	-65.06	116.73	40.45	31.93	9.86	30.57	100	79	P	H
	*	5785	117.62	-	-	106.23	32.13	9.87	30.61	100	79	P	H
	*	5785	109.13	-	-	97.74	32.13	9.87	30.61	100	79	A	H
	-	5853.4	53.15	-61.3	114.45	41.66	32.2	9.94	30.65	100	79	P	H
	-	5871.6	52.37	-53.78	106.15	40.8	32.27	9.96	30.66	100	79	P	H
	-	5898.2	51.99	-36	87.99	40.38	32.3	9.99	30.68	100	79	P	H
	-	5945.8	52.83	-15.37	68.2	41.09	32.4	10.05	30.71	100	79	P	H
													H
802.11a CH 157 5785MHz													H
	-	5632.8	51.09	-17.11	68.2	40.02	31.73	9.85	30.51	232	166	P	V
	-	5689.2	51.95	-45.29	97.24	40.84	31.8	9.86	30.55	232	166	P	V
	-	5712	51.95	-56.61	108.56	40.78	31.87	9.86	30.56	232	166	P	V
	-	5721	50.4	-62.68	113.08	39.18	31.93	9.86	30.57	232	166	P	V
	*	5785	114.31	-	-	102.92	32.13	9.87	30.61	232	166	P	V
	*	5785	105.86	-	-	94.47	32.13	9.87	30.61	232	166	A	V
	-	5854.4	51.64	-60.53	112.17	40.12	32.23	9.94	30.65	232	166	P	V
	-	5857.8	51.87	-58.14	110.01	40.35	32.23	9.94	30.65	232	166	P	V
	-	5878.2	51.84	-50.98	102.82	40.26	32.27	9.97	30.66	232	166	P	V
	-	5941	51.16	-17.04	68.2	39.41	32.4	10.05	30.7	232	166	P	V
													V
													V

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1	-	(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
	*	5825	117.31	-	-	105.84	32.2	9.9	30.63	100	78	P	H
	*	5825	109.03	-	-	97.56	32.2	9.9	30.63	100	78	A	H
	-	5851.6	81.16	-37.39	118.55	69.68	32.2	9.93	30.65	100	78	P	H
	-	5855.8	74.44	-36.14	110.58	62.92	32.23	9.94	30.65	100	78	P	H
	-	5878	57.35	-45.62	102.97	45.77	32.27	9.97	30.66	100	78	P	H
	-	5942.4	52.11	-16.09	68.2	40.36	32.4	10.05	30.7	100	78	P	H
													H
802.11a													H
CH 165	*	5825	112.9	-	-	101.43	32.2	9.9	30.63	226	164	P	V
5825MHz	*	5825	104.65	-	-	93.18	32.2	9.9	30.63	226	164	A	V
	-	5850.8	74.3	-46.08	120.38	62.82	32.2	9.93	30.65	226	164	P	V
	-	5856	70.37	-40.15	110.52	58.85	32.23	9.94	30.65	226	164	P	V
	-	5875.8	53.82	-50.79	104.61	42.25	32.27	9.96	30.66	226	164	P	V
	-	5949.4	51.42	-16.78	68.2	39.67	32.4	10.06	30.71	226	164	P	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz	-	11490	51.1	-22.9	74	57.18	40.17	14.5	60.75	100	21	P	H
	-	11490	38.47	-15.53	54	44.55	40.17	14.5	60.75	100	21	A	H
	-	17235	50.28	-17.92	68.2	47.99	40.7	18.51	56.92	100	0	P	H
													H
	-	11490	49.12	-24.88	74	55.2	40.17	14.5	60.75	100	0	P	V
	-	17235	50.45	-17.75	68.2	48.16	40.7	18.51	56.92	100	0	P	V
													V
													V
802.11a CH 157 5785MHz	-	11570	49	-25	74	55.2	40	14.56	60.76	100	0	P	H
	-	17355	50.64	-17.56	68.2	47	41.4	18.72	56.48	100	0	P	H
													H
													H
	-	11570	49.98	-24.02	74	56.18	40	14.56	60.76	100	0	P	V
	-	17355	50.94	-17.26	68.2	47.3	41.4	18.72	56.48	100	0	P	V
													V
													V
802.11a CH 165 5825MHz	-	11650	47.97	-26.03	74	54.44	39.66	14.62	60.75	100	0	P	H
	-	17475	51.78	-16.42	68.2	46.52	42.43	18.88	56.05	100	0	P	H
													H
													H
	-	11650	47.32	-26.68	74	53.79	39.66	14.62	60.75	100	0	P	V
	-	17475	51.38	-16.82	68.2	46.12	42.43	18.88	56.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5642.2	50.74	-17.46	68.2	39.68	31.73	9.85	30.52	100	78	P	H
	-	5699.8	55.01	-50.04	105.05	43.9	31.8	9.86	30.55	100	78	P	H
	-	5720	75.4	-35.4	110.8	64.18	31.93	9.86	30.57	100	78	P	H
	-	5724.2	85.67	-34.71	120.38	74.45	31.93	9.86	30.57	100	78	P	H
	*	5745	117.23	-	-	105.95	32	9.86	30.58	100	78	P	H
	*	5745	109.03	-	-	97.75	32	9.86	30.58	100	78	A	H
802.11n													H
HT20													H
CH 149	-	5607.4	50.9	-17.3	68.2	39.75	31.8	9.85	30.5	234	165	P	V
5745MHz	-	5698	53.42	-50.31	103.73	42.31	31.8	9.86	30.55	234	165	P	V
	-	5720	73.85	-36.95	110.8	62.63	31.93	9.86	30.57	234	165	P	V
	-	5724.6	84.01	-37.28	121.29	72.79	31.93	9.86	30.57	234	165	P	V
	*	5745	114.35	-	-	103.07	32	9.86	30.58	234	165	P	V
	*	5745	106.38	-	-	95.1	32	9.86	30.58	234	165	A	V
													V
													V

WIFI Ant. 1	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5627.4	50.48	-17.72	68.2	39.37	31.77	9.85	30.51	100	78	P	H
	-	5684.8	50.69	-43.3	93.99	39.57	31.8	9.86	30.54	100	78	P	H
	-	5715.8	51.62	-58.01	109.63	40.45	31.87	9.86	30.56	100	78	P	H
	-	5723.8	52.6	-66.86	119.46	41.38	31.93	9.86	30.57	100	78	P	H
	*	5785	117.22	-	-	105.83	32.13	9.87	30.61	100	78	P	H
	*	5785	108.85	-	-	97.46	32.13	9.87	30.61	100	78	A	H
	-	5854.8	53.59	-57.67	111.26	42.07	32.23	9.94	30.65	100	78	P	H
	-	5862.2	53.14	-55.64	108.78	41.61	32.23	9.95	30.65	100	78	P	H
	-	5910.4	52.31	-26.66	78.97	40.65	32.33	10.01	30.68	100	78	P	H
	-	5927.8	52.67	-15.53	68.2	40.97	32.37	10.03	30.7	100	78	P	H
802.11n													H
HT20													H
CH 157	-	5632.4	51.88	-16.32	68.2	40.77	31.77	9.85	30.51	232	165	P	V
5785MHz	-	5663.4	50.33	-27.82	78.15	39.3	31.7	9.86	30.53	232	165	P	V
	-	5706.2	50.81	-56.13	106.94	39.64	31.87	9.86	30.56	232	165	P	V
	-	5723.2	50.66	-67.44	118.1	39.44	31.93	9.86	30.57	232	165	P	V
	*	5785	113.8	-	-	102.41	32.13	9.87	30.61	232	165	P	V
	*	5785	105.31	-	-	93.92	32.13	9.87	30.61	232	165	A	V
	-	5853.6	51.58	-62.41	113.99	40.06	32.23	9.94	30.65	232	165	P	V
	-	5858.8	50.99	-58.74	109.73	39.47	32.23	9.94	30.65	232	165	P	V
	-	5881.4	51.49	-48.96	100.45	39.92	32.27	9.97	30.67	232	165	P	V
	-	5943.6	51.14	-17.06	68.2	39.4	32.4	10.05	30.71	232	165	P	V
													V
													V

WIFI Ant. 1	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	116.94	-	-	105.47	32.2	9.9	30.63	100	79	P	H
	*	5825	108.68	-	-	97.21	32.2	9.9	30.63	100	79	A	H
	-	5850	82.5	-39.7	122.2	71.02	32.2	9.93	30.65	100	79	P	H
	-	5855.6	73.43	-37.2	110.63	61.91	32.23	9.94	30.65	100	79	P	H
	-	5877	58.26	-45.45	103.71	46.68	32.27	9.97	30.66	100	79	P	H
	-	5931.8	52.33	-15.87	68.2	40.63	32.37	10.03	30.7	100	79	P	H
802.11n													H
HT20													H
CH 165	*	5825	112.23	-	-	100.76	32.2	9.9	30.63	225	165	P	V
5825MHz	*	5825	104.05	-	-	92.58	32.2	9.9	30.63	225	165	A	V
	-	5850.8	76.23	-44.15	120.38	64.75	32.2	9.93	30.65	225	165	P	V
	-	5855	68.03	-42.77	110.8	56.51	32.23	9.94	30.65	225	165	P	V
	-	5875.6	53.65	-51.1	104.75	42.08	32.27	9.96	30.66	225	165	P	V
	-	5947.8	51.69	-16.51	68.2	39.95	32.4	10.05	30.71	225	165	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	11490	49.37	-24.63	74	55.45	40.17	14.5	60.75	100	0	P	H
	-	17235	51.13	-17.07	68.2	48.84	40.7	18.51	56.92	100	0	P	H
802.11n													H
HT20													H
CH 149	-	11490	49.16	-24.84	74	55.24	40.17	14.5	60.75	100	0	P	V
5745MHz	-	17235	50.76	-17.44	68.2	48.47	40.7	18.51	56.92	100	0	P	V
													V
													V
	-	11570	48.66	-25.34	74	54.86	40	14.56	60.76	100	0	P	H
	-	17355	51.14	-17.06	68.2	47.5	41.4	18.72	56.48	100	0	P	H
802.11n													H
HT20													H
CH 157	-	11570	48.5	-25.5	74	54.7	40	14.56	60.76	100	0	P	V
5785MHz	-	17355	51.63	-16.57	68.2	47.99	41.4	18.72	56.48	100	0	P	V
													V
													V
	-	11650	48.1	-25.9	74	54.57	39.66	14.62	60.75	100	0	P	H
	-	17475	50.87	-17.33	68.2	45.61	42.43	18.88	56.05	100	0	P	H
802.11n													H
HT20													H
CH 165	-	11650	48.07	-25.93	74	54.54	39.66	14.62	60.75	100	0	P	V
5825MHz	-	17475	51.89	-16.31	68.2	46.63	42.43	18.88	56.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5650	52.54	-15.66	68.2	41.5	31.7	9.86	30.52	100	78	P	H
	-	5699.8	69.43	-35.62	105.05	58.32	31.8	9.86	30.55	100	78	P	H
	-	5719.4	86.8	-23.83	110.63	75.58	31.93	9.86	30.57	100	78	P	H
	-	5724.4	88	-32.83	120.83	76.78	31.93	9.86	30.57	100	78	P	H
	*	5755	114.83	-	-	103.48	32.07	9.87	30.59	100	78	P	H
	*	5755	106.62	-	-	95.27	32.07	9.87	30.59	100	78	A	H
	-	5851	59.35	-60.57	119.92	47.87	32.2	9.93	30.65	100	78	P	H
	-	5855.4	59.06	-51.63	110.69	47.54	32.23	9.94	30.65	100	78	P	H
	-	5877	54.6	-49.11	103.71	43.02	32.27	9.97	30.66	100	78	P	H
	-	5941	52	-16.2	68.2	40.25	32.4	10.05	30.7	100	78	P	H
802.11n													H
HT40													H
CH 151	-	5644	51.93	-16.27	68.2	40.87	31.73	9.85	30.52	230	165	P	V
5755MHz	-	5699.2	69.23	-35.38	104.61	58.12	31.8	9.86	30.55	230	165	P	V
	-	5719.8	83.97	-26.77	110.74	72.75	31.93	9.86	30.57	230	165	P	V
	-	5723.4	86.02	-32.53	118.55	74.8	31.93	9.86	30.57	230	165	P	V
	*	5755	111.63	-	-	100.28	32.07	9.87	30.59	230	165	P	V
	*	5755	103.72	-	-	92.37	32.07	9.87	30.59	230	165	A	V
	-	5851.6	54.77	-63.78	118.55	43.29	32.2	9.93	30.65	230	165	P	V
	-	5855	54.14	-56.66	110.8	42.62	32.23	9.94	30.65	230	165	P	V
	-	5892.8	51.12	-40.87	91.99	39.5	32.3	9.99	30.67	230	165	P	V
	-	5947.4	51.88	-16.32	68.2	40.14	32.4	10.05	30.71	230	165	P	V
													V
													V

WIFI Ant. 1	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5613.6	51.36	-16.84	68.2	40.21	31.8	9.85	30.5	100	80	P	H
	-	5698.8	54.27	-50.05	104.32	43.16	31.8	9.86	30.55	100	80	P	H
	-	5716.6	62.4	-47.45	109.85	51.23	31.87	9.86	30.56	100	80	P	H
	-	5724.8	64.89	-56.85	121.74	53.67	31.93	9.86	30.57	100	80	P	H
	*	5795	114.2	-	-	102.74	32.2	9.87	30.61	100	80	P	H
	*	5795	106.16	-	-	94.7	32.2	9.87	30.61	100	80	A	H
	-	5851.2	77.01	-42.45	119.46	65.53	32.2	9.93	30.65	100	80	P	H
	-	5857.2	75.73	-34.45	110.18	64.21	32.23	9.94	30.65	100	80	P	H
	-	5876.2	65.04	-39.27	104.31	53.46	32.27	9.97	30.66	100	80	P	H
	-	5935.2	54.43	-13.77	68.2	42.72	32.37	10.04	30.7	100	80	P	H
802.11n													H
HT40													H
CH 159	-	5629.6	52.26	-15.94	68.2	41.15	31.77	9.85	30.51	231	166	P	V
5795MHz	-	5697.6	55.5	-47.93	103.43	44.39	31.8	9.86	30.55	231	166	P	V
	-	5719.8	59.46	-51.28	110.74	48.24	31.93	9.86	30.57	231	166	P	V
	-	5724.8	62.49	-59.25	121.74	51.27	31.93	9.86	30.57	231	166	P	V
	*	5795	110.52	-	-	99.06	32.2	9.87	30.61	231	166	P	V
	*	5795	102.41	-	-	90.95	32.2	9.87	30.61	231	166	A	V
	-	5851.6	69.71	-48.84	118.55	58.23	32.2	9.93	30.65	231	166	P	V
	-	5857.2	69.97	-40.21	110.18	58.45	32.23	9.94	30.65	231	166	P	V
	-	5876.6	60.51	-43.5	104.01	48.93	32.27	9.97	30.66	231	166	P	V
	-	5934.2	52.14	-16.06	68.2	40.43	32.37	10.04	30.7	231	166	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	11510	47.64	-26.36	74	53.68	40.2	14.52	60.76	100	0	P	H
	-	17265	49.38	-18.82	68.2	46.83	40.8	18.56	56.81	100	0	P	H
802.11n													H
HT40													H
CH 151	-	11510	47.61	-26.39	74	53.65	40.2	14.52	60.76	100	0	P	V
5755MHz	-	17265	49.71	-18.49	68.2	47.16	40.8	18.56	56.81	100	0	P	V
													V
													V
	-	11590	47.92	-26.08	74	54.16	39.95	14.57	60.76	100	0	P	H
	-	17385	50.52	-17.68	68.2	46.42	41.73	18.75	56.38	100	0	P	H
802.11n													H
HT40													H
CH 159	-	11590	47.52	-26.48	74	53.76	39.95	14.57	60.76	100	0	P	V
5795MHz	-	17385	49.63	-18.57	68.2	45.53	41.73	18.75	56.38	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5650	60.65	-7.55	68.2	49.61	31.7	9.86	30.52	100	77	P	H
	-	5691.6	80.15	-18.86	99.01	69.04	31.8	9.86	30.55	100	77	P	H
	-	5720	84.31	-26.49	110.8	73.09	31.93	9.86	30.57	100	77	P	H
	-	5720.2	84.36	-26.9	111.26	73.14	31.93	9.86	30.57	100	77	P	H
	*	5775	110.84	-	-	99.44	32.13	9.87	30.6	100	77	P	H
	*	5775	102.46	-	-	91.06	32.13	9.87	30.6	100	77	A	H
	-	5852	86.61	-31.03	117.64	75.13	32.2	9.93	30.65	100	77	P	H
	-	5857	86.49	-23.75	110.24	74.97	32.23	9.94	30.65	100	77	P	H
	-	5876.2	80.3	-24.01	104.31	68.72	32.27	9.97	30.66	100	77	P	H
	-	5928.4	64.48	-3.72	68.2	52.78	32.37	10.03	30.7	100	77	P	H
802.11ac													H
VHT80													H
CH 155	-	5648.2	60.15	-8.05	68.2	49.09	31.73	9.85	30.52	230	167	P	V
5775MHz	-	5697.6	79.34	-24.09	103.43	68.23	31.8	9.86	30.55	230	167	P	V
	-	5718.2	82.41	-27.89	110.3	71.19	31.93	9.86	30.57	230	167	P	V
	-	5725	82.03	-40.17	122.2	70.81	31.93	9.86	30.57	230	167	P	V
	*	5775	107.29	-	-	95.89	32.13	9.87	30.6	230	167	P	V
	*	5775	99.61	-	-	88.21	32.13	9.87	30.6	230	167	A	V
	-	5854.2	81.6	-31.02	112.62	70.08	32.23	9.94	30.65	230	167	P	V
	-	5856.2	80.47	-29.99	110.46	68.95	32.23	9.94	30.65	230	167	P	V
	-	5875	73.26	-31.94	105.2	61.69	32.27	9.96	30.66	230	167	P	V
	-	5928.8	60.03	-8.17	68.2	48.33	32.37	10.03	30.7	230	167	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	11550	48.36	-25.64	74	54.52	40.05	14.55	60.76	100	0	P	H
	-	17325	49.9	-18.3	68.2	46.75	41.07	18.67	56.59	100	0	P	H
802.11ac													H
VHT80													H
CH 155	-	11550	48.26	-25.74	74	54.42	40.05	14.55	60.76	100	0	P	V
5775MHz	-	17325	49.78	-18.42	68.2	46.63	41.07	18.67	56.59	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1	-	(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	-	62.98	33.43	-6.57	40	53.12	11.8	1.08	32.57	100	0	P	H
	-	92.08	33.74	-9.76	43.5	49.93	15.02	1.31	32.52	-	-	P	H
	-	119.24	34.28	-9.22	43.5	47.86	17.5	1.43	32.51	-	-	P	H
	-	231.76	31.41	-14.59	46	45.47	16.38	2.07	32.51	-	-	P	H
	-	299.66	29.34	-16.66	46	40.31	19.29	2.28	32.54	-	-	P	H
	-	390.84	29.04	-16.96	46	37.5	21.53	2.56	32.55	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80	-	62.98	30.61	-9.39	40	50.3	11.8	1.08	32.57	-	-	P	V
LF	-	85.29	38.71	-1.29	40	55.84	14.13	1.27	32.53	100	359	QP	V
	-	104.69	38.69	-4.81	43.5	53.22	16.61	1.37	32.51	100	327	QP	V
	-	137.67	36.26	-7.24	43.5	49.58	17.6	1.58	32.5	-	-	P	V
	-	164.83	32.37	-11.13	43.5	47.04	16.02	1.81	32.5	-	-	P	V
	-	246.31	28.97	-17.03	46	41.27	18.08	2.13	32.51	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2	-	(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz	-	5616.6	51.78	-16.42	68.2	40.66	31.77	9.85	30.5	100	274	P	H
	-	5699.4	57.53	-47.23	104.76	46.42	31.8	9.86	30.55	100	274	P	H
	-	5720	77.89	-32.91	110.8	66.67	31.93	9.86	30.57	100	274	P	H
	-	5725	86.77	-35.43	122.2	75.55	31.93	9.86	30.57	100	274	P	H
	*	5745	116.58	-	-	105.3	32	9.86	30.58	100	274	P	H
	*	5745	108.44	-	-	97.16	32	9.86	30.58	100	274	A	H
													H
													H
	-	5650	51.83	-16.37	68.2	40.79	31.7	9.86	30.52	250	195	P	V
	-	5698.6	57.68	-46.49	104.17	46.57	31.8	9.86	30.55	250	195	P	V
	-	5719.4	72.32	-38.31	110.63	61.1	31.93	9.86	30.57	250	195	P	V
	-	5724.6	85.2	-36.09	121.29	73.98	31.93	9.86	30.57	250	195	P	V
	*	5745	114.63	-	-	103.35	32	9.86	30.58	250	195	P	V
	*	5745	106.34	-	-	95.06	32	9.86	30.58	250	195	A	V
													V
													V

WIFI Ant. 2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5616.8	50.76	-17.44	68.2	39.64	31.77	9.85	30.5	100	275	P	H
	-	5674	51.07	-34.93	86	40	31.75	9.86	30.54	100	275	P	H
	-	5711.4	52.12	-56.27	108.39	40.95	31.87	9.86	30.56	100	275	P	H
	-	5722.2	53.24	-62.58	115.82	42.02	31.93	9.86	30.57	100	275	P	H
	*	5785	116.5	-	-	105.11	32.13	9.87	30.61	100	275	P	H
	*	5785	108.09	-	-	96.7	32.13	9.87	30.61	100	275	A	H
	-	5850.6	52.6	-68.23	120.83	41.12	32.2	9.93	30.65	100	275	P	H
	-	5859.4	51.9	-57.67	109.57	40.38	32.23	9.94	30.65	100	275	P	H
	-	5883.6	51.66	-47.15	98.81	40.09	32.27	9.97	30.67	100	275	P	H
	-	5925	50.91	-17.29	68.2	39.2	32.37	10.03	30.69	100	275	P	H
													H
802.11a CH 157 5785MHz													H
	-	5618.4	50.96	-17.24	68.2	39.84	31.77	9.85	30.5	257	197	P	V
	-	5698.6	50.66	-53.51	104.17	39.55	31.8	9.86	30.55	257	197	P	V
	-	5708	51.06	-56.38	107.44	39.89	31.87	9.86	30.56	257	197	P	V
	-	5724.8	51.51	-70.23	121.74	40.29	31.93	9.86	30.57	257	197	P	V
	*	5785	113.14	-	-	101.75	32.13	9.87	30.61	257	197	P	V
	*	5785	105.23	-	-	93.84	32.13	9.87	30.61	257	197	A	V
	-	5854.8	51.05	-60.21	111.26	39.53	32.23	9.94	30.65	257	197	P	V
	-	5872.6	52.22	-53.65	105.87	40.65	32.27	9.96	30.66	257	197	P	V
	-	5876.2	51.86	-52.45	104.31	40.28	32.27	9.97	30.66	257	197	P	V
	-	5925.6	51	-17.2	68.2	39.29	32.37	10.03	30.69	257	197	P	V
													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	116.26	-	-	104.79	32.2	9.9	30.63	100	275	P	H
	*	5825	108	-	-	96.53	32.2	9.9	30.63	100	275	A	H
	-	5850	75.45	-46.75	122.2	63.97	32.2	9.93	30.65	100	275	P	H
	-	5855	67.28	-43.52	110.8	55.76	32.23	9.94	30.65	100	275	P	H
	-	5875.8	58.6	-46.01	104.61	47.03	32.27	9.96	30.66	100	275	P	H
	-	5940.2	51.52	-16.68	68.2	39.77	32.4	10.05	30.7	100	275	P	H
													H
802.11a													H
CH 165	*	5825	113.28	-	-	101.81	32.2	9.9	30.63	255	198	P	V
5825MHz	*	5825	104.97	-	-	93.5	32.2	9.9	30.63	255	198	A	V
	-	5850	74.08	-48.12	122.2	62.6	32.2	9.93	30.65	255	198	P	V
	-	5855.6	65.33	-45.3	110.63	53.81	32.23	9.94	30.65	255	198	P	V
	-	5877.8	56.44	-46.68	103.12	44.86	32.27	9.97	30.66	255	198	P	V
	-	5938.2	51.57	-16.63	68.2	39.86	32.37	10.04	30.7	255	198	P	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz	-	11490	47.8	-26.2	74	53.88	40.17	14.5	60.75	100	0	P	H
	-	17235	49.62	-18.58	68.2	47.33	40.7	18.51	56.92	100	0	P	H
													H
													H
	-	11490	48.5	-25.5	74	54.58	40.17	14.5	60.75	100	0	P	V
	-	17235	49.1	-19.1	68.2	46.81	40.7	18.51	56.92	100	0	P	V
													V
													V
802.11a CH 157 5785MHz	-	11570	48.36	-25.64	74	54.56	40	14.56	60.76	100	0	P	H
	-	17355	50.61	-17.59	68.2	46.97	41.4	18.72	56.48	100	0	P	H
													H
													H
	-	11570	48.24	-25.76	74	54.44	40	14.56	60.76	100	0	P	V
	-	17355	50.53	-17.67	68.2	46.89	41.4	18.72	56.48	100	0	P	V
													V
													V
802.11a CH 165 5825MHz	-	11650	47.97	-26.03	74	54.44	39.66	14.62	60.75	100	0	P	H
	-	17475	50.71	-17.49	68.2	45.45	42.43	18.88	56.05	100	0	P	H
													H
													H
	-	11650	47.78	-26.22	74	54.25	39.66	14.62	60.75	100	0	P	V
	-	17475	51.68	-16.52	68.2	46.42	42.43	18.88	56.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5645.4	51.35	-16.85	68.2	40.29	31.73	9.85	30.52	100	274	P	H
	-	5700	58.73	-46.47	105.2	47.62	31.8	9.86	30.55	100	274	P	H
	-	5720	79.64	-31.16	110.8	68.42	31.93	9.86	30.57	100	274	P	H
	-	5724.8	86.27	-35.47	121.74	75.05	31.93	9.86	30.57	100	274	P	H
	*	5745	116.14	-	-	104.86	32	9.86	30.58	100	274	P	H
	*	5745	107.89	-	-	96.61	32	9.86	30.58	100	274	A	H
802.11n													H
HT20													H
CH 149	-	5641	51.15	-17.05	68.2	40.09	31.73	9.85	30.52	248	192	P	V
5745MHz	-	5699	60.79	-43.67	104.46	49.68	31.8	9.86	30.55	248	192	P	V
	-	5720	76.94	-33.86	110.8	65.72	31.93	9.86	30.57	248	192	P	V
	-	5724.8	87.66	-34.08	121.74	76.44	31.93	9.86	30.57	248	192	P	V
	*	5745	114.89	-	-	103.61	32	9.86	30.58	248	192	P	V
	*	5745	106.76	-	-	95.48	32	9.86	30.58	248	192	A	V
													V
													V

WIFI Ant. 2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5614	51	-17.2	68.2	39.85	31.8	9.85	30.5	100	275	P	H
	-	5690.6	50.94	-47.33	98.27	39.83	31.8	9.86	30.55	100	275	P	H
	-	5719	52.3	-58.22	110.52	41.08	31.93	9.86	30.57	100	275	P	H
	-	5724.6	52.66	-68.63	121.29	41.44	31.93	9.86	30.57	100	275	P	H
	*	5785	116.76	-	-	105.37	32.13	9.87	30.61	100	275	P	H
	*	5785	107.84	-	-	96.45	32.13	9.87	30.61	100	275	A	H
		5853	53.81	-61.55	115.36	42.32	32.2	9.94	30.65	100	275	P	H
	-	5857.6	51.9	-58.17	110.07	40.38	32.23	9.94	30.65	100	275	P	H
	-	5877.4	52.73	-50.69	103.42	41.15	32.27	9.97	30.66	100	275	P	H
	-	5937.2	51.66	-16.54	68.2	39.95	32.37	10.04	30.7	100	275	P	H
802.11n													H
HT20													H
CH 157	-	5636.6	50.8	-17.4	68.2	39.73	31.73	9.85	30.51	245	192	P	V
5785MHz	-	5697.2	50.51	-52.63	103.14	39.4	31.8	9.86	30.55	245	192	P	V
	-	5717.8	52.65	-57.53	110.18	41.43	31.93	9.86	30.57	245	192	P	V
	-	5723.6	51.1	-67.91	119.01	39.88	31.93	9.86	30.57	245	192	P	V
	*	5785	113.84	-	-	102.45	32.13	9.87	30.61	245	192	P	V
	*	5785	105.21	-	-	93.82	32.13	9.87	30.61	245	192	A	V
	-	5852	51.97	-65.67	117.64	40.49	32.2	9.93	30.65	245	192	P	V
	-	5858.8	51.51	-58.22	109.73	39.99	32.23	9.94	30.65	245	192	P	V
	-	5918.6	51.21	-21.71	72.92	39.55	32.33	10.02	30.69	245	192	P	V
	-	5943.8	50.92	-17.28	68.2	39.18	32.4	10.05	30.71	245	192	P	V
													V
													V

WIFI Ant. 2	Note - -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	116.49	-	-	105.02	32.2	9.9	30.63	100	275	P	H
	*	5825	108	-	-	96.53	32.2	9.9	30.63	100	275	A	H
		5850	80.37	-41.83	122.2	68.89	32.2	9.93	30.65	100	275	P	H
	-	5855.6	71.49	-39.14	110.63	59.97	32.23	9.94	30.65	100	275	P	H
	-	5875.8	58.83	-45.78	104.61	47.26	32.27	9.96	30.66	100	275	P	H
	-	5925.4	52.21	-15.99	68.2	40.5	32.37	10.03	30.69	100	275	P	H
802.11n													H
HT20													H
CH 165	*	5825	113.08	-	-	101.61	32.2	9.9	30.63	255	199	P	V
5825MHz	*	5825	104.41	-	-	92.94	32.2	9.9	30.63	255	199	A	V
	-	5850	77.58	-44.62	122.2	66.1	32.2	9.93	30.65	255	199	P	V
	-	5856	66.41	-44.11	110.52	54.89	32.23	9.94	30.65	255	199	P	V
	-	5875.2	56.62	-48.43	105.05	45.05	32.27	9.96	30.66	255	199	P	V
	-	5936	51.07	-17.13	68.2	39.36	32.37	10.04	30.7	255	199	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	11490	48.72	-25.28	74	54.8	40.17	14.5	60.75	100	0	P	H
	-	17235	49.77	-18.43	68.2	47.48	40.7	18.51	56.92	100	0	P	H
802.11n													H
HT20													H
CH 149	-	11490	47.93	-26.07	74	54.01	40.17	14.5	60.75	100	0	P	V
5745MHz	-	17235	49.59	-18.61	68.2	47.3	40.7	18.51	56.92	100	0	P	V
													V
													V
	-	11570	49.04	-24.96	74	55.24	40	14.56	60.76	100	0	P	H
	-	17355	50.37	-17.83	68.2	46.73	41.4	18.72	56.48	100	0	P	H
802.11n													H
HT20													H
CH 157	-	11570	47.99	-26.01	74	54.19	40	14.56	60.76	100	0	P	V
5785MHz	-	17355	50.89	-17.31	68.2	47.25	41.4	18.72	56.48	100	0	P	V
													V
													V
	-	11650	47.71	-26.29	74	54.18	39.66	14.62	60.75	100	0	P	H
	-	17475	50.83	-17.37	68.2	45.57	42.43	18.88	56.05	100	0	P	H
802.11n													H
HT20													H
CH 165	-	11650	47.94	-26.06	74	54.41	39.66	14.62	60.75	100	0	P	V
5825MHz	-	17475	50.93	-17.27	68.2	45.67	42.43	18.88	56.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5648.2	54.1	-14.1	68.2	43.04	31.73	9.85	30.52	100	274	P	H
	-	5698.8	72.33	-31.99	104.32	61.22	31.8	9.86	30.55	100	274	P	H
	-	5718	87.35	-22.89	110.24	76.13	31.93	9.86	30.57	100	274	P	H
	-	5722.4	88.88	-27.39	116.27	77.66	31.93	9.86	30.57	100	274	P	H
	*	5755	113.72	-	-	102.37	32.07	9.87	30.59	100	274	P	H
	*	5755	105.63	-	-	94.28	32.07	9.87	30.59	100	274	A	H
	-	5851.6	56.88	-61.67	118.55	45.4	32.2	9.93	30.65	100	274	P	H
	-	5857.6	55.56	-54.51	110.07	44.04	32.23	9.94	30.65	100	274	P	H
	-	5880.6	52.86	-48.18	101.04	41.29	32.27	9.97	30.67	100	274	P	H
	-	5940	51.91	-16.29	68.2	40.16	32.4	10.05	30.7	100	274	P	H
802.11n													H
HT40													H
CH 151	-	5648.2	52.94	-15.26	68.2	41.88	31.73	9.85	30.52	246	191	P	V
5755MHz	-	5699.2	73.22	-31.39	104.61	62.11	31.8	9.86	30.55	246	191	P	V
	-	5719.2	86.33	-24.25	110.58	75.11	31.93	9.86	30.57	246	191	P	V
	-	5723.2	86.66	-31.44	118.1	75.44	31.93	9.86	30.57	246	191	P	V
	*	5755	111.63	-	-	100.28	32.07	9.87	30.59	246	191	P	V
	*	5755	103.63	-	-	92.28	32.07	9.87	30.59	246	191	A	V
	-	5853.6	54.93	-59.06	113.99	43.41	32.23	9.94	30.65	246	191	P	V
	-	5859.4	52.94	-56.63	109.57	41.42	32.23	9.94	30.65	246	191	P	V
	-	5892.8	51.74	-40.25	91.99	40.12	32.3	9.99	30.67	246	191	P	V
	-	5927.8	52.21	-15.99	68.2	40.51	32.37	10.03	30.7	246	191	P	V
													V
													V

WIFI Ant. 2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5634.4	51.68	-16.52	68.2	40.61	31.73	9.85	30.51	100	275	P	H
	-	5699.2	59.82	-44.79	104.61	48.71	31.8	9.86	30.55	100	275	P	H
	-	5719.2	66.47	-44.11	110.58	55.25	31.93	9.86	30.57	100	275	P	H
	-	5722.4	65.92	-50.35	116.27	54.7	31.93	9.86	30.57	100	275	P	H
	*	5795	113.33	-	-	101.87	32.2	9.87	30.61	100	275	P	H
	*	5795	105.25	-	-	93.79	32.2	9.87	30.61	100	275	A	H
	-	5850.6	73.51	-47.32	120.83	62.03	32.2	9.93	30.65	100	275	P	H
	-	5858.6	71.47	-38.32	109.79	59.95	32.23	9.94	30.65	100	275	P	H
	-	5875	64.31	-40.89	105.2	52.74	32.27	9.96	30.66	100	275	P	H
	-	5927	53.54	-14.66	68.2	41.83	32.37	10.03	30.69	100	275	P	H
802.11n													H
HT40													H
CH 159	-	5649.8	50.48	-17.72	68.2	39.45	31.7	9.85	30.52	256	196	P	V
5795MHz	-	5698.2	57.18	-46.69	103.87	46.07	31.8	9.86	30.55	256	196	P	V
	-	5719	64.66	-45.86	110.52	53.44	31.93	9.86	30.57	256	196	P	V
	-	5722.4	62.6	-53.67	116.27	51.38	31.93	9.86	30.57	256	196	P	V
	*	5795	110.94	-	-	99.48	32.2	9.87	30.61	256	196	P	V
	*	5795	102.64	-	-	91.18	32.2	9.87	30.61	256	196	A	V
	-	5852.8	69.41	-46.41	115.82	57.92	32.2	9.94	30.65	256	196	P	V
	-	5862.4	71.89	-36.84	108.73	60.36	32.23	9.95	30.65	256	196	P	V
	-	5878.6	61.37	-41.16	102.53	49.79	32.27	9.97	30.66	256	196	P	V
	-	5931	52.79	-15.41	68.2	41.09	32.37	10.03	30.7	256	196	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	11510	47.55	-26.45	74	53.59	40.2	14.52	60.76	100	0	P	H
	-	17265	49	-19.2	68.2	46.45	40.8	18.56	56.81	100	0	P	H
802.11n													H
HT40													H
CH 151	-	11510	47.86	-26.14	74	53.9	40.2	14.52	60.76	100	0	P	V
5755MHz	-	17265	49.91	-18.29	68.2	47.36	40.8	18.56	56.81	100	0	P	V
													V
													V
	-	11590	47.7	-26.3	74	53.94	39.95	14.57	60.76	100	0	P	H
	-	17385	49.93	-18.27	68.2	45.83	41.73	18.75	56.38	100	0	P	H
802.11n													H
HT40													H
CH 159	-	11590	48.11	-25.89	74	54.35	39.95	14.57	60.76	100	0	P	V
5795MHz	-	17385	49.87	-18.33	68.2	45.77	41.73	18.75	56.38	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5637.4	59.93	-8.27	68.2	48.87	31.73	9.85	30.52	100	274	P	H
	-	5696.8	78.73	-24.11	102.84	67.62	31.8	9.86	30.55	100	274	P	H
	-	5719.2	83.41	-27.17	110.58	72.19	31.93	9.86	30.57	100	274	P	H
	-	5724.6	85.6	-35.69	121.29	74.38	31.93	9.86	30.57	100	274	P	H
	*	5775	109.3	-	-	97.9	32.13	9.87	30.6	100	274	P	H
	*	5775	101.52	-	-	90.12	32.13	9.87	30.6	100	274	A	H
	-	5852	80.17	-37.47	117.64	68.69	32.2	9.93	30.65	100	274	P	H
	-	5861	79.85	-29.27	109.12	68.32	32.23	9.95	30.65	100	274	P	H
	-	5875.6	74.47	-30.28	104.75	62.9	32.27	9.96	30.66	100	274	P	H
	-	5926.6	59.69	-8.51	68.2	47.98	32.37	10.03	30.69	100	274	P	H
802.11ac													H
VHT80													H
CH 155	-	5650	59.94	-8.26	68.2	48.9	31.7	9.86	30.52	244	196	P	V
5775MHz	-	5694.2	82.08	-18.84	100.92	70.97	31.8	9.86	30.55	244	196	P	V
	-	5715.4	82.25	-27.26	109.51	71.08	31.87	9.86	30.56	244	196	P	V
	-	5724.6	84.16	-37.13	121.29	72.94	31.93	9.86	30.57	244	196	P	V
	*	5775	106.99	-	-	95.59	32.13	9.87	30.6	244	196	P	V
	*	5775	99.28	-	-	87.88	32.13	9.87	30.6	244	196	A	V
	-	5854.4	78.9	-33.27	112.17	67.38	32.23	9.94	30.65	244	196	P	V
	-	5855.2	77.61	-33.13	110.74	66.09	32.23	9.94	30.65	244	196	P	V
	-	5875.2	74.44	-30.61	105.05	62.87	32.27	9.96	30.66	244	196	P	V
	-	5925	61.85	-6.35	68.2	50.14	32.37	10.03	30.69	244	196	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz	-	11550	48.62	-25.38	74	54.78	40.05	14.55	60.76	100	0	P	H
	-	17325	49.33	-18.87	68.2	46.18	41.07	18.67	56.59	100	0	P	H
													H
													H
	-	11550	47.69	-26.31	74	53.85	40.05	14.55	60.76	100	0	P	V
	-	17325	49.95	-18.25	68.2	46.8	41.07	18.67	56.59	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2	-	(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	-	61.04	27.52	-12.48	40	47.14	11.89	59.03	32.57	-	-	P	H
	-	91.11	32.45	-11.05	43.5	48.94	14.73	63.67	32.52	-	-	P	H
	-	119.24	35.78	-7.72	43.5	49.36	17.5	66.86	32.51	100	0	P	H
	-	233.7	29.06	-16.94	46	42.93	16.57	59.5	32.51	-	-	P	H
	-	284.14	31.23	-14.77	46	42.56	18.97	61.53	32.53	-	-	P	H
	-	385.99	28.38	-17.62	46	37.05	21.34	58.39	32.55			P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80	-	85.29	37.64	-2.36	40	54.77	14.13	68.9	32.53	100	356	QP	V
LF	-	108.57	38.09	-5.41	43.5	52.41	16.81	69.22	32.51	100	339	QP	V
	-	137.67	36.53	-6.97	43.5	49.85	17.6	67.45	32.5	-	-	P	V
	-	167.74	31.51	-11.99	43.5	46.35	15.83	62.18	32.5	-	-	P	V
	-	245.34	28.66	-17.34	46	41.1	17.95	59.05	32.51	-	-	P	V
	-	399.57	26.96	-19.04	46	35.04	21.88	56.92	32.55	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2	-	(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz	-	5640.2	51.45	-16.75	68.2	40.39	31.73	9.85	30.52	100	78	P	H
	-	5699	54.23	-50.23	104.46	43.12	31.8	9.86	30.55	100	78	P	H
	-	5719.8	63.75	-46.99	110.74	52.53	31.93	9.86	30.57	100	78	P	H
	-	5724.6	77.67	-43.62	121.29	66.45	31.93	9.86	30.57	100	78	P	H
	*	5745	118.84	-	-	107.56	32	9.86	30.58	100	78	P	H
	*	5745	111.15	-	-	99.87	32	9.86	30.58	100	78	A	H
													H
													H
	-	5649.4	51.31	-16.89	68.2	40.25	31.73	9.85	30.52	266	194	P	V
	-	5686.4	53.96	-41.21	95.17	42.85	31.8	9.86	30.55	266	194	P	V
	-	5719.6	61.52	-49.17	110.69	50.3	31.93	9.86	30.57	266	194	P	V
	-	5725	75.6	-46.6	122.2	64.38	31.93	9.86	30.57	266	194	P	V
	*	5745	116.91	-	-	105.63	32	9.86	30.58	266	194	P	V
	*	5745	108.58	-	-	97.3	32	9.86	30.58	266	194	A	V
													V
													V

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5641.4	51.83	-16.37	68.2	40.77	31.73	9.85	30.52	100	78	P	H
	-	5687.2	52.17	-43.59	95.76	41.06	31.8	9.86	30.55	100	78	P	H
	-	5715.6	50.93	-58.64	109.57	39.76	31.87	9.86	30.56	100	78	P	H
	-	5725	51.87	-70.33	122.2	40.65	31.93	9.86	30.57	100	78	P	H
	*	5785	119.71	-	-	108.32	32.13	9.87	30.61	100	78	P	H
	*	5785	112.08	-	-	100.69	32.13	9.87	30.61	100	78	A	H
	-	5851	53.18	-66.74	119.92	41.7	32.2	9.93	30.65	100	78	P	H
	-	5855.2	54.49	-56.25	110.74	42.97	32.23	9.94	30.65	100	78	P	H
	-	5883.8	52.17	-46.5	98.67	40.6	32.27	9.97	30.67	100	78	P	H
	-	5931.4	51.58	-16.62	68.2	39.88	32.37	10.03	30.7	100	78	P	H
													H
802.11a CH 157 5785MHz													H
	-	5632.6	51.19	-17.01	68.2	40.12	31.73	9.85	30.51	255	192	P	V
	-	5652	50.54	-19.15	69.69	39.5	31.7	9.86	30.52	255	192	P	V
	-	5717.6	51.2	-58.93	110.13	39.97	31.93	9.86	30.56	255	192	P	V
	-	5723.2	50.84	-67.26	118.1	39.62	31.93	9.86	30.57	255	192	P	V
	*	5785	116.33	-	-	104.94	32.13	9.87	30.61	255	192	P	V
	*	5785	108.6	-	-	97.21	32.13	9.87	30.61	255	192	A	V
	-	5852.8	50.94	-64.88	115.82	39.45	32.2	9.94	30.65	255	192	P	V
	-	5873.4	51.51	-54.14	105.65	39.94	32.27	9.96	30.66	255	192	P	V
	-	5910.8	52.66	-26.02	78.68	41	32.33	10.01	30.68	255	192	P	V
	-	5947.4	51.65	-16.55	68.2	39.91	32.4	10.05	30.71	255	192	P	V
													V
													V

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	120.47	-	-	109	32.2	9.9	30.63	100	79	P	H
	*	5825	111.85	-	-	100.38	32.2	9.9	30.63	100	79	A	H
	-	5850	77.61	-44.59	122.2	66.13	32.2	9.93	30.65	100	79	P	H
	-	5857.8	71.46	-38.55	110.01	59.94	32.23	9.94	30.65	100	79	P	H
	-	5877.6	58.28	-44.99	103.27	46.7	32.27	9.97	30.66	100	79	P	H
	-	5949.4	51.4	-16.8	68.2	39.65	32.4	10.06	30.71	100	79	P	H
													H
802.11a													H
CH 165	*	5825	116.68	-	-	105.21	32.2	9.9	30.63	266	194	P	V
5825MHz	*	5825	108.28	-	-	96.81	32.2	9.9	30.63	266	194	A	V
	-	5850	76.37	-45.83	122.2	64.89	32.2	9.93	30.65	266	194	P	V
	-	5855.2	67.4	-43.34	110.74	55.88	32.23	9.94	30.65	266	194	P	V
	-	5875.2	54.89	-50.16	105.05	43.32	32.27	9.96	30.66	266	194	P	V
	-	5950	52.08	-16.12	68.2	40.33	32.4	10.06	30.71	266	194	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz	-	11490	49.99	-24.01	74	56.07	40.17	14.5	60.75	100	0	P	H
	-	17235	49.95	-18.25	68.2	47.66	40.7	18.51	56.92	100	0	P	H
													H
													H
	-	11490	49.11	-24.89	74	55.19	40.17	14.5	60.75	100	0	P	V
	-	17235	49.92	-18.28	68.2	47.63	40.7	18.51	56.92	100	0	P	V
													V
													V
802.11a CH 157 5785MHz	-	11570	48.8	-25.2	74	55	40	14.56	60.76	100	0	P	H
	-	17355	50.61	-17.59	68.2	46.97	41.4	18.72	56.48	100	0	P	H
													H
													H
	-	11570	48.42	-25.58	74	54.62	40	14.56	60.76	100	0	P	V
	-	17355	51.28	-16.92	68.2	47.64	41.4	18.72	56.48	100	0	P	V
													V
													V
802.11a CH 165 5825MHz	-	11650	48.67	-25.33	74	55.14	39.66	14.62	60.75	100	0	P	H
	-	17475	51.63	-16.57	68.2	46.37	42.43	18.88	56.05	100	0	P	H
													H
													H
	-	11650	47.48	-26.52	74	53.95	39.66	14.62	60.75	100	0	P	V
	-	17475	52.14	-16.06	68.2	46.88	42.43	18.88	56.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5609.2	51.06	-17.14	68.2	39.91	31.8	9.85	30.5	100	276	P	H
	-	5690.6	56.36	-41.91	98.27	45.25	31.8	9.86	30.55	100	276	P	H
	-	5719.8	69.53	-41.21	110.74	58.31	31.93	9.86	30.57	100	276	P	H
	-	5724.2	86.14	-34.24	120.38	74.92	31.93	9.86	30.57	100	276	P	H
	*	5745	120.17	-	-	108.89	32	9.86	30.58	100	276	P	H
	*	5745	111.15	-	-	99.87	32	9.86	30.58	100	276	A	H
802.11n													H
HT20													H
CH 149	-	5631	51.45	-16.75	68.2	40.34	31.77	9.85	30.51	261	192	P	V
5745MHz	-	5699.6	58.37	-46.54	104.91	47.26	31.8	9.86	30.55	261	192	P	V
	-	5719.8	78.68	-32.06	110.74	67.46	31.93	9.86	30.57	261	192	P	V
	-	5723.4	84.14	-34.41	118.55	72.92	31.93	9.86	30.57	261	192	P	V
	*	5745	117.24	-	-	105.96	32	9.86	30.58	261	192	P	V
	*	5745	108.92	-	-	97.64	32	9.86	30.58	261	192	A	V
													V
													V

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5625.2	50.81	-17.39	68.2	39.7	31.77	9.85	30.51	100	78	P	H
	-	5700	50.49	-54.71	105.2	39.38	31.8	9.86	30.55	100	78	P	H
	-	5719.8	52.49	-58.25	110.74	41.27	31.93	9.86	30.57	100	78	P	H
	-	5720	51.83	-58.97	110.8	40.61	31.93	9.86	30.57	100	78	P	H
	*	5785	117.43	-	-	106.03	32.13	9.87	30.6	100	78	P	H
	*	5785	110.92	-	-	99.52	32.13	9.87	30.6	100	78	A	H
	-	5853.2	54.42	-60.48	114.9	42.93	32.2	9.94	30.65	100	78	P	H
	-	5861.8	53.77	-55.12	108.89	42.24	32.23	9.95	30.65	100	78	P	H
	-	5877.2	52.58	-50.99	103.57	41	32.27	9.97	30.66	100	78	P	H
	-	5937.6	51.86	-16.34	68.2	40.15	32.37	10.04	30.7	100	78	P	H
802.11n													H
HT20													H
CH 157	-	5624.8	50.65	-17.55	68.2	39.54	31.77	9.85	30.51	235	156	P	V
5785MHz	-	5651.8	50.11	-19.43	69.54	39.07	31.7	9.86	30.52	235	156	P	V
	-	5705	50.6	-56	106.6	39.43	31.87	9.86	30.56	235	156	P	V
	-	5721.2	50.43	-63.11	113.54	39.21	31.93	9.86	30.57	235	156	P	V
	*	5785	112.96	-	-	101.57	32.13	9.87	30.61	235	156	P	V
	*	5785	105.03	-	-	93.64	32.13	9.87	30.61	235	156	A	V
	-	5851.6	51.18	-67.37	118.55	39.7	32.2	9.93	30.65	235	156	P	V
	-	5874.2	51.03	-54.39	105.42	39.46	32.27	9.96	30.66	235	156	P	V
	-	5891.2	50.75	-42.43	93.18	39.14	32.3	9.98	30.67	235	156	P	V
	-	5931.6	51.14	-17.06	68.2	39.44	32.37	10.03	30.7	235	156	P	V
													V
													V

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	118.68	-	-	107.21	32.2	9.9	30.63	100	81	P	H
	*	5825	110.19	-	-	98.72	32.2	9.9	30.63	100	81	A	H
	-	5850	78.12	-44.08	122.2	66.64	32.2	9.93	30.65	100	81	P	H
	-	5859.2	66.94	-42.68	109.62	55.42	32.23	9.94	30.65	100	81	P	H
	-	5877.6	59.25	-44.02	103.27	47.67	32.27	9.97	30.66	100	81	P	H
	-	5940.4	51.92	-16.28	68.2	40.17	32.4	10.05	30.7	100	81	P	H
802.11n													H
HT20													H
CH 165	*	5825	114.54	-	-	103.07	32.2	9.9	30.63	262	194	P	V
5825MHz	*	5825	106.5	-	-	95.03	32.2	9.9	30.63	262	194	A	V
	-	5850.8	70.75	-49.63	120.38	59.27	32.2	9.93	30.65	262	194	P	V
	-	5856.4	66.1	-44.31	110.41	54.58	32.23	9.94	30.65	262	194	P	V
	-	5875.2	56.37	-48.68	105.05	44.8	32.27	9.96	30.66	262	194	P	V
	-	5927	51.98	-16.22	68.2	40.27	32.37	10.03	30.69	262	194	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	11490	49.15	-24.85	74	55.23	40.17	14.5	60.75	100	0	P	H
	-	17235	50.58	-17.62	68.2	48.29	40.7	18.51	56.92	100	0	P	H
802.11n													H
HT20													H
CH 149	-	11490	48.88	-25.12	74	54.96	40.17	14.5	60.75	100	0	P	V
5745MHz	-	17235	49.56	-18.64	68.2	47.27	40.7	18.51	56.92	100	0	P	V
													V
													V
	-	11570	48.82	-25.18	74	55.02	40	14.56	60.76	100	0	P	H
	-	17355	51.77	-16.43	68.2	48.13	41.4	18.72	56.48	100	0	P	H
802.11n													H
HT20													H
CH 157	-	11570	48.5	-25.5	74	54.7	40	14.56	60.76	100	0	P	V
5785MHz	-	17355	50.64	-17.56	68.2	47	41.4	18.72	56.48	100	0	P	V
													V
													V
	-	11650	48.65	-25.35	74	55.12	39.66	14.62	60.75	100	0	P	H
	-	17475	52.49	-15.71	68.2	47.23	42.43	18.88	56.05	100	0	P	H
802.11n													H
HT20													H
CH 165	-	11650	48.02	-25.98	74	54.49	39.66	14.62	60.75	100	0	P	V
5825MHz	-	17475	51.25	-16.95	68.2	45.99	42.43	18.88	56.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5642.6	52.49	-15.71	68.2	41.43	31.73	9.85	30.52	100	79	P	H
	-	5698.6	66.65	-37.52	104.17	55.54	31.8	9.86	30.55	100	79	P	H
	-	5719.8	87.24	-23.5	110.74	76.02	31.93	9.86	30.57	100	79	P	H
	-	5721.6	88.45	-26	114.45	77.23	31.93	9.86	30.57	100	79	P	H
	*	5755	116.01	-	-	104.66	32.07	9.87	30.59	100	79	P	H
	*	5755	107.96	-	-	96.61	32.07	9.87	30.59	100	79	A	H
	-	5852.2	57.09	-60.09	117.18	45.6	32.2	9.94	30.65	100	79	P	H
	-	5855.8	58.02	-52.56	110.58	46.5	32.23	9.94	30.65	100	79	P	H
	-	5877.2	53.37	-50.2	103.57	41.79	32.27	9.97	30.66	100	79	P	H
	-	5939	51.6	-16.6	68.2	39.86	32.4	10.04	30.7	100	79	P	H
802.11n													H
HT40													H
CH 151	-	5648	54.15	-14.05	68.2	43.09	31.73	9.85	30.52	253	192	P	V
5755MHz	-	5698.8	64.13	-40.19	104.32	53.02	31.8	9.86	30.55	253	192	P	V
	-	5719.2	86.6	-23.98	110.58	75.38	31.93	9.86	30.57	253	192	P	V
	-	5724.4	85.55	-35.28	120.83	74.33	31.93	9.86	30.57	253	192	P	V
	*	5755	113.94	-	-	102.59	32.07	9.87	30.59	253	192	P	V
	*	5755	105.67	-	-	94.32	32.07	9.87	30.59	253	192	A	V
	-	5850.6	54.57	-66.26	120.83	43.09	32.2	9.93	30.65	253	192	P	V
	-	5871	53.35	-52.97	106.32	41.78	32.27	9.96	30.66	253	192	P	V
	-	5880.2	52.42	-48.92	101.34	40.85	32.27	9.97	30.67	253	192	P	V
	-	5936.6	51.76	-16.44	68.2	40.05	32.37	10.04	30.7	253	192	P	V
													V
													V

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5646.2	51.39	-16.81	68.2	40.33	31.73	9.85	30.52	100	79	P	H
	-	5699.2	56.69	-47.92	104.61	45.58	31.8	9.86	30.55	100	79	P	H
	-	5718.2	59.39	-50.91	110.3	48.17	31.93	9.86	30.57	100	79	P	H
	-	5723.8	60.56	-58.9	119.46	49.34	31.93	9.86	30.57	100	79	P	H
	*	5795	115.77	-	-	104.31	32.2	9.87	30.61	100	79	P	H
	*	5795	107.41	-	-	95.95	32.2	9.87	30.61	100	79	A	H
	-	5850	73.24	-48.96	122.2	61.76	32.2	9.93	30.65	100	79	P	H
	-	5861.8	70.62	-38.27	108.89	59.09	32.23	9.95	30.65	100	79	P	H
	-	5881.4	62.23	-38.22	100.45	50.66	32.27	9.97	30.67	100	79	P	H
	-	5941.2	52.69	-15.51	68.2	40.94	32.4	10.05	30.7	100	79	P	H
802.11n													H
HT40													H
CH 159	-	5631.4	50.89	-17.31	68.2	39.78	31.77	9.85	30.51	250	192	P	V
5795MHz	-	5698	53.21	-50.52	103.73	42.1	31.8	9.86	30.55	250	192	P	V
	-	5718	57.71	-52.53	110.24	46.49	31.93	9.86	30.57	250	192	P	V
	-	5720.2	57.68	-53.58	111.26	46.46	31.93	9.86	30.57	250	192	P	V
	*	5795	112.96	-	-	101.5	32.2	9.87	30.61	250	192	P	V
	*	5795	105.16	-	-	93.7	32.2	9.87	30.61	250	192	A	V
	-	5854.6	68.12	-43.59	111.71	56.6	32.23	9.94	30.65	250	192	P	V
	-	5857	68.32	-41.92	110.24	56.8	32.23	9.94	30.65	250	192	P	V
	-	5875.8	60.42	-44.19	104.61	48.85	32.27	9.96	30.66	250	192	P	V
	-	5937	52.35	-15.85	68.2	40.64	32.37	10.04	30.7	250	192	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	11510	47.82	-26.18	74	53.86	40.2	14.52	60.76	100	0	P	H
	-	17265	49.57	-18.63	68.2	47.02	40.8	18.56	56.81	100	0	P	H
802.11n													H
HT40													H
CH 151	-	11510	49.02	-24.98	74	55.06	40.2	14.52	60.76	100	0	P	V
5755MHz	-	17265	51.07	-17.13	68.2	48.52	40.8	18.56	56.81	100	0	P	V
													V
													V
	-	11590	48.29	-25.71	74	54.53	39.95	14.57	60.76	100	0	P	H
	-	17385	50.6	-17.6	68.2	46.5	41.73	18.75	56.38	100	0	P	H
802.11n													H
HT40													H
CH 159	-	11590	48.46	-25.54	74	54.7	39.95	14.57	60.76	100	0	P	V
5795MHz	-	17385	50.95	-17.25	68.2	46.85	41.73	18.75	56.38	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
	-	(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	-	5644.2	63.09	-5.11	68.2	52.03	31.73	9.85	30.52	100	78	P	H
	-	5691.4	83.48	-15.38	98.86	72.37	31.8	9.86	30.55	100	78	P	H
	-	5719.2	86.67	-23.91	110.58	75.45	31.93	9.86	30.57	100	78	P	H
	-	5723.4	85.68	-32.87	118.55	74.46	31.93	9.86	30.57	100	78	P	H
	*	5775	112.93	-	-	101.53	32.13	9.87	30.6	100	78	P	H
	*	5775	104.97	-	-	93.57	32.13	9.87	30.6	100	78	A	H
	-	5850.8	86.36	-34.02	120.38	74.88	32.2	9.93	30.65	100	78	P	H
	-	5867.4	85.06	-22.27	107.33	73.54	32.23	9.95	30.66	100	78	P	H
	-	5882.2	77.48	-22.37	99.85	65.91	32.27	9.97	30.67	100	78	P	H
	-	5926.4	66.79	-1.41	68.2	55.08	32.37	10.03	30.69	100	78	P	H
802.11ac													H
VHT80													H
CH 155	-	5639.6	60.67	-7.53	68.2	49.61	31.73	9.85	30.52	264	194	P	V
5775MHz	-	5698.6	82.24	-21.93	104.17	71.13	31.8	9.86	30.55	264	194	P	V
	-	5718.4	85	-25.35	110.35	73.78	31.93	9.86	30.57	264	194	P	V
	-	5721.6	85.34	-29.11	114.45	74.12	31.93	9.86	30.57	264	194	P	V
	*	5775	110.1	-	-	98.7	32.13	9.87	30.6	264	194	P	V
	*	5775	102.44	-	-	91.04	32.13	9.87	30.6	264	194	A	V
	-	5851.6	82.89	-35.66	118.55	71.41	32.2	9.93	30.65	264	194	P	V
	-	5857.4	82.1	-28.03	110.13	70.58	32.23	9.94	30.65	264	194	P	V
	-	5878.6	77.95	-24.58	102.53	66.37	32.27	9.97	30.66	264	194	P	V
	-	5930.4	62.45	-5.75	68.2	50.75	32.37	10.03	30.7	264	194	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	11550	47.54	-26.46	74	53.7	40.05	14.55	60.76	100	0	P	H
	-	17325	50.02	-18.18	68.2	46.87	41.07	18.67	56.59	100	0	P	H
802.11ac													H
VHT80													H
CH 155	-	11550	47.76	-26.24	74	53.92	40.05	14.55	60.76	100	0	P	V
5775MHz	-	17325	50.65	-17.55	68.2	47.5	41.07	18.67	56.59	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2	-	(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	-	66.86	30.82	-9.18	40	50.21	12.06	1.11	32.56	-	-	P	H
	-	90.14	33.44	-10.06	43.5	49.98	14.7	1.29	32.53	-	-	P	H
	-	119.24	34.96	-8.54	43.5	48.54	17.5	1.43	32.51	100	0	P	H
	-	135.73	33.7	-9.8	43.5	47.02	17.63	1.55	32.5	-	-	P	H
	-	224	29.82	-16.18	46	44.66	15.62	2.04	32.5	-	-	P	H
	-	296.75	29.79	-16.21	46	40.82	19.24	2.27	32.54	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80	-	51.34	27.85	-12.15	40	45.74	13.76	0.94	32.59	-	-	P	V
LF	-	84.32	39.46	-0.54	40	56.71	14.03	1.26	32.54	100	359	QP	V
	-	106.63	39.24	-4.26	43.5	53.68	16.7	1.37	32.51	100	350	QP	V
	-	140.58	38.36	-5.14	43.5	51.73	17.54	1.59	32.5	-	-	P	V
	-	161.92	32.34	-11.16	43.5	46.74	16.31	1.79	32.5	-	-	P	V
	-	248.25	29.47	-16.53	46	41.5	18.35	2.13	32.51	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

<TXBF Mode>

Band 4 - 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2	-	(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	-	5647.4	54.58	-13.62	68.2	43.35	31.9	9.85	30.52	100	118	P	H
	-	5698.6	63.7	-40.47	104.17	52.2	32.19	9.86	30.55	100	118	P	H
	-	5711.4	67.11	-41.28	108.39	55.56	32.25	9.86	30.56	100	118	P	H
	-	5724.4	72.97	-47.86	120.83	61.38	32.3	9.86	30.57	100	118	P	H
	*	5745	116.76	-	-	105.1	32.38	9.86	30.58	100	118	P	H
	*	5745	101.3	-	-	89.64	32.38	9.86	30.58	100	118	A	H
802.11ac													H
VHT20													H
CH 149	-	5619.4	50.58	-17.62	68.2	39.33	31.9	9.85	30.5	100	200	P	V
5745MHz	-	5691.8	58.2	-40.95	99.15	46.74	32.15	9.86	30.55	100	200	P	V
	-	5720	60.16	-50.64	110.8	48.59	32.28	9.86	30.57	100	200	P	V
	-	5724.4	66.18	-54.65	120.83	54.59	32.3	9.86	30.57	100	200	P	V
	*	5745	112.46	-	-	100.8	32.38	9.86	30.58	100	200	P	V
	*	5745	96.85	-	-	85.19	32.38	9.86	30.58	100	200	A	V
													V
													V

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5635.6	51.58	-16.62	68.2	40.34	31.9	9.85	30.51	100	128	P	H
	-	5700	54.95	-50.25	105.2	43.44	32.2	9.86	30.55	100	128	P	H
	-	5719.6	59.59	-51.1	110.69	48.02	32.28	9.86	30.57	100	128	P	H
	-	5722.8	60.23	-56.95	117.18	48.65	32.29	9.86	30.57	100	128	P	H
	*	5785	116.42	-	-	104.76	32.4	9.87	30.61	100	128	P	H
	*	5785	101.85	-	-	90.19	32.4	9.87	30.61	100	128	A	H
	-	5852	60.34	-57.3	117.64	48.66	32.4	9.93	30.65	100	128	P	H
	-	5856.8	57.9	-52.4	110.3	46.2	32.41	9.94	30.65	100	128	P	H
	-	5875.2	56.67	-48.38	105.05	44.92	32.45	9.96	30.66	100	128	P	H
	-	5932	53.54	-14.66	68.2	41.58	32.63	10.03	30.7	100	128	P	H
802.11ac													H
VHT20													H
CH 157	-	5601.6	51.6	-16.6	68.2	40.34	31.9	9.85	30.49	100	197	P	V
5785MHz	-	5696.6	51.67	-51.02	102.69	40.18	32.18	9.86	30.55	100	197	P	V
	-	5718	55.75	-54.49	110.24	44.19	32.27	9.86	30.57	100	197	P	V
	-	5723.6	57.79	-61.22	119.01	46.21	32.29	9.86	30.57	100	197	P	V
	*	5785	111.16	-	-	99.5	32.4	9.87	30.61	100	197	P	V
	*	5785	96.66	-	-	85	32.4	9.87	30.61	100	197	A	V
	-	5853.6	54.21	-59.78	113.99	42.51	32.41	9.94	30.65	100	197	P	V
	-	5862	54.31	-54.53	108.84	42.59	32.42	9.95	30.65	100	197	P	V
	-	5880.2	52.78	-48.56	101.34	41.02	32.46	9.97	30.67	100	197	P	V
	-	5939	51.61	-16.59	68.2	39.61	32.66	10.04	30.7	100	197	P	V
													V
													V

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	116.67	-	-	105	32.4	9.9	30.63	100	119	P	H
	*	5825	101.74	-	-	90.07	32.4	9.9	30.63	100	119	A	H
	-	5850.8	67.45	-52.93	120.38	55.77	32.4	9.93	30.65	100	119	P	H
	-	5859.4	67.57	-42	109.57	55.86	32.42	9.94	30.65	100	119	P	H
	-	5875.4	66.02	-38.88	104.9	54.27	32.45	9.96	30.66	100	119	P	H
	-	5925.2	56.77	-11.43	68.2	44.83	32.6	10.03	30.69	100	119	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	111.93	-	-	100.26	32.4	9.9	30.63	100	198	P	V
5825MHz	*	5825	96.97	-	-	85.3	32.4	9.9	30.63	100	198	A	V
	-	5854.8	62.29	-48.97	111.26	50.59	32.41	9.94	30.65	100	198	P	V
	-	5857	62.2	-48.04	110.24	50.5	32.41	9.94	30.65	100	198	P	V
	-	5879	59.82	-42.41	102.23	48.05	32.46	9.97	30.66	100	198	P	V
	-	5932	53.32	-14.88	68.2	41.36	32.63	10.03	30.7	100	198	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	11490	48.07	-25.93	74	54.03	40.29	14.5	60.75	100	0	P	H
	-	17235	49.2	-19	68.2	47.41	40.2	18.51	56.92	100	0	P	H
802.11ac													H
VHT20													H
CH 149	-	11490	48.29	-25.71	74	54.25	40.29	14.5	60.75	100	0	P	V
5745MHz	-	17235	49.23	-18.97	68.2	47.44	40.2	18.51	56.92	100	0	P	V
													V
													V
	-	11570	48.63	-25.37	74	54.67	40.16	14.56	60.76	100	0	P	H
	-	17355	50.67	-17.53	68.2	47.59	40.84	18.72	56.48	100	0	P	H
802.11ac													H
VHT20													H
CH 157	-	11570	49.43	-24.57	74	55.47	40.16	14.56	60.76	100	0	P	V
5785MHz	-	17355	51.01	-17.19	68.2	47.93	40.84	18.72	56.48	100	0	P	V
													V
													V
	-	11650	48.36	-25.64	74	54.64	39.85	14.62	60.75	100	0	P	H
	-	17475	50.18	-18.02	68.2	45.62	41.73	18.88	56.05	100	0	P	H
802.11ac													H
VHT20													H
CH 165	-	11650	48.22	-25.78	74	54.5	39.85	14.62	60.75	100	0	P	V
5825MHz	-	17475	51.14	-17.06	68.2	46.58	41.73	18.88	56.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5645.4	55.54	-12.66	68.2	44.31	31.9	9.85	30.52	100	119	P	H
	-	5698.4	64.89	-39.13	104.02	53.39	32.19	9.86	30.55	100	119	P	H
	-	5719	78.65	-31.87	110.52	67.08	32.28	9.86	30.57	100	119	P	H
	-	5725	80.23	-41.97	122.2	68.64	32.3	9.86	30.57	100	119	P	H
	*	5755	114.6	-	-	102.92	32.4	9.87	30.59	100	119	P	H
	*	5755	104.56	-	-	92.88	32.4	9.87	30.59	100	119	A	H
	-	5851.8	56.42	-61.68	118.1	44.74	32.4	9.93	30.65	100	119	P	H
	-	5867.2	55.81	-51.57	107.38	44.09	32.43	9.95	30.66	100	119	P	H
	-	5876.2	56.36	-47.95	104.31	44.6	32.45	9.97	30.66	100	119	P	H
	-	5933.6	53.02	-15.18	68.2	41.05	32.63	10.04	30.7	100	119	P	H
802.11ac													H
VHT40													H
CH 151	-	5641.6	53.53	-14.67	68.2	42.3	31.9	9.85	30.52	244	196	P	V
5755MHz	-	5694.6	60.3	-40.92	101.22	48.82	32.17	9.86	30.55	244	196	P	V
	-	5719.2	73.07	-37.51	110.58	61.5	32.28	9.86	30.57	244	196	P	V
	-	5724.4	75.52	-45.31	120.83	63.93	32.3	9.86	30.57	244	196	P	V
	*	5755	109.44	-	-	97.76	32.4	9.87	30.59	244	196	P	V
	*	5755	100.76	-	-	89.08	32.4	9.87	30.59	244	196	A	V
	-	5850.8	52.76	-67.62	120.38	41.08	32.4	9.93	30.65	244	196	P	V
	-	5860.4	52.52	-56.77	109.29	40.8	32.42	9.95	30.65	244	196	P	V
	-	5879.6	52.69	-49.09	101.78	40.93	32.46	9.97	30.67	244	196	P	V
	-	5937.6	52.55	-15.65	68.2	40.56	32.65	10.04	30.7	244	196	P	V
													V
													V

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	5629	51.94	-16.26	68.2	40.7	31.9	9.85	30.51	100	120	P	H
	-	5698.2	57.07	-46.8	103.87	45.57	32.19	9.86	30.55	100	120	P	H
	-	5719.6	59.61	-51.08	110.69	48.04	32.28	9.86	30.57	100	120	P	H
	-	5725	61.52	-60.68	122.2	49.93	32.3	9.86	30.57	100	120	P	H
	*	5795	114.33	-	-	102.67	32.4	9.87	30.61	100	120	P	H
	*	5795	104.96	-	-	93.3	32.4	9.87	30.61	100	120	A	H
	-	5854.4	65.69	-46.48	112.17	53.99	32.41	9.94	30.65	100	120	P	H
	-	5857.8	66.66	-43.35	110.01	54.95	32.42	9.94	30.65	100	120	P	H
	-	5875.4	62.38	-42.52	104.9	50.63	32.45	9.96	30.66	100	120	P	H
	-	5925.2	57	-11.2	68.2	45.06	32.6	10.03	30.69	100	120	P	H
802.11ac													H
VHT40													H
CH 159	-	5623.6	51.88	-16.32	68.2	40.64	31.9	9.85	30.51	233	197	P	V
5795MHz	-	5693.6	52.1	-48.38	100.48	40.63	32.16	9.86	30.55	233	197	P	V
	-	5717.2	56.46	-53.56	110.02	44.89	32.27	9.86	30.56	233	197	P	V
	-	5724.8	56.9	-64.84	121.74	45.31	32.3	9.86	30.57	233	197	P	V
	*	5795	109.13	-	-	97.47	32.4	9.87	30.61	233	197	P	V
	*	5795	99.75	-	-	88.09	32.4	9.87	30.61	233	197	A	V
	-	5851.2	60.49	-58.97	119.46	48.81	32.4	9.93	30.65	233	197	P	V
	-	5857.2	59.64	-50.54	110.18	47.94	32.41	9.94	30.65	233	197	P	V
	-	5879.2	56.17	-45.91	102.08	44.41	32.46	9.97	30.67	233	197	P	V
	-	5940.2	52.72	-15.48	68.2	40.71	32.66	10.05	30.7	233	197	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	11510	47.98	-26.02	74	53.94	40.28	14.52	60.76	100	0	P	H
	-	17265	48.9	-19.3	68.2	46.85	40.3	18.56	56.81	100	0	P	H
802.11ac													H
VHT40													H
CH 151	-	11510	47.78	-26.22	74	53.74	40.28	14.52	60.76	100	0	P	V
5755MHz	-	17265	49.4	-18.8	68.2	47.35	40.3	18.56	56.81	100	0	P	V
													V
													V
	-	11590	48.27	-25.73	74	54.34	40.12	14.57	60.76	100	0	P	H
	-	17385	50.1	-18.1	68.2	46.65	41.08	18.75	56.38	100	0	P	H
802.11ac													H
VHT40													H
CH 159	-	11590	49.21	-24.79	74	55.28	40.12	14.57	60.76	100	0	P	V
5795MHz	-	17385	50.19	-18.01	68.2	46.74	41.08	18.75	56.38	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
	-	(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	-	5644.2	57.59	-10.61	68.2	46.36	31.9	9.85	30.52	100	82	P	H
	-	5699.4	73.19	-31.57	104.76	61.68	32.2	9.86	30.55	100	82	P	H
	-	5718.4	74.4	-35.95	110.35	62.84	32.27	9.86	30.57	100	82	P	H
	-	5721	73.62	-39.46	113.08	62.05	32.28	9.86	30.57	100	82	P	H
	*	5775	109.79	-	-	98.12	32.4	9.87	30.6	100	82	P	H
	*	5775	100.87	-	-	89.2	32.4	9.87	30.6	100	82	A	H
	-	5852.6	75.12	-41.15	116.27	63.42	32.41	9.94	30.65	100	82	P	H
	-	5867.4	74.58	-32.75	107.33	62.86	32.43	9.95	30.66	100	82	P	H
	-	5875.6	67.58	-37.17	104.75	55.83	32.45	9.96	30.66	100	82	P	H
	-	5925.2	55.16	-13.04	68.2	43.22	32.6	10.03	30.69	100	82	P	H
802.11ac													H
VHT80													H
CH 155	-	5640.2	53.55	-14.65	68.2	42.32	31.9	9.85	30.52	100	163	P	V
5775MHz	-	5699	67.05	-37.41	104.46	55.55	32.19	9.86	30.55	100	163	P	V
	-	5718	70.09	-40.15	110.24	58.53	32.27	9.86	30.57	100	163	P	V
	-	5724	70.73	-49.19	119.92	59.14	32.3	9.86	30.57	100	163	P	V
	*	5775	108.54	-	-	96.87	32.4	9.87	30.6	100	163	P	V
	*	5775	97.15	-	-	85.48	32.4	9.87	30.6	100	163	A	V
	-	5852.2	70.41	-46.77	117.18	58.72	32.4	9.94	30.65	100	163	P	V
	-	5858.4	68.61	-41.24	109.85	56.9	32.42	9.94	30.65	100	163	P	V
	-	5875.8	60.66	-43.95	104.61	48.91	32.45	9.96	30.66	100	163	P	V
	-	5942.6	53.25	-14.95	68.2	41.23	32.67	10.05	30.7	100	163	P	V
													V
													V

Remark

3. No other spurious found.
4. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note -	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	-	11550	48.77	-25.23	74	54.78	40.2	14.55	60.76	100	0	P	H
	-	17325	49.76	-18.44	68.2	47.08	40.6	18.67	56.59	100	0	P	H
802.11ac													H
VHT80													H
CH 155	-	11550	48.28	-25.72	74	54.29	40.2	14.55	60.76	100	0	P	V
5775MHz	-	17325	49.64	-18.56	68.2	46.96	40.6	18.67	56.59	100	0	P	V
													V
													V

Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2	-	(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT80 LF	-	60.07	29.46	-10.54	40	48.99	11.99	1.05	32.57	-	-	P	H
	-	94.02	37.3	-6.2	43.5	53.31	15.2	1.31	32.52	200	181	QP	H
	-	108.57	34.98	-8.52	43.5	49.3	16.81	1.38	32.51	-	-	P	H
	-	118.27	35.14	-8.36	43.5	48.73	17.5	1.42	32.51	-	-	P	H
	-	151.25	32.04	-11.46	43.5	45.69	17.15	1.7	32.5	-	-	P	H
	-	217.21	31.13	-14.87	46	46.54	15.08	2.01	32.5	-	-	P	H
													H
													H
													H
													H
													H
													H
													V
	-	47.46	31.54	-8.46	40	47.56	15.67	0.9	32.59	-	-	P	V
	-	63.95	31.21	-8.79	40	50.7	11.99	1.09	32.57	-	-	P	V
	-	90.14	39.33	-4.17	43.5	55.87	14.7	1.29	32.53	100	300	QP	V
	-	109.54	37.37	-6.13	43.5	51.55	16.95	1.38	32.51	-	-	P	V
	-	132.82	27.12	-16.38	43.5	40.46	17.62	1.54	32.5	-	-	P	V
	-	288.99	29.41	-16.59	46	40.61	19.08	2.25	32.53	-	-	P	V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **over limit** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

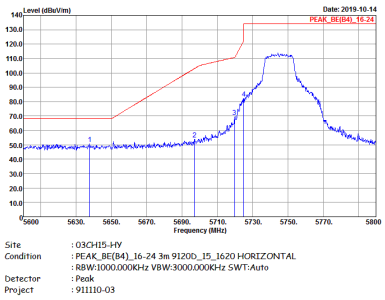
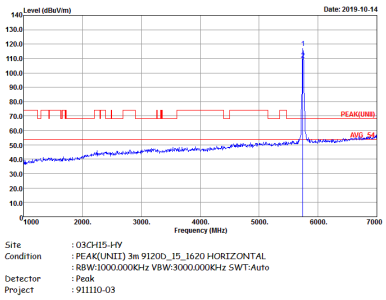
Appendix B. Radiated Spurious Emission Plots

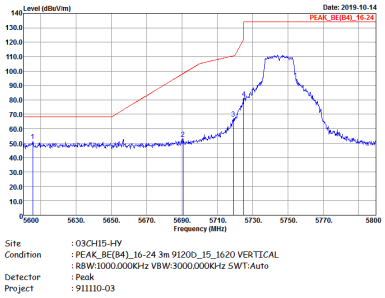
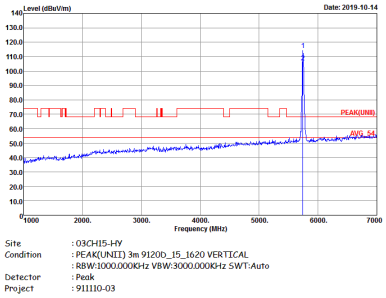
Test Engineer :	Leo Li, Karl Hou, Bigshow Wang	**Temperature :**	23~26°C
		Relative Humidity :	50~65%

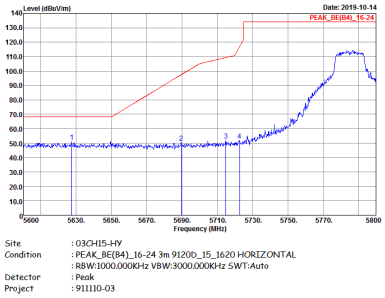
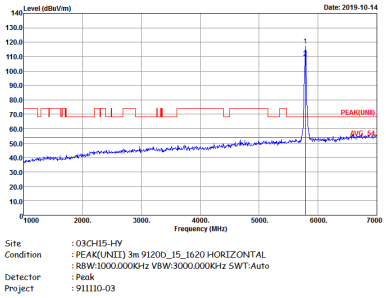
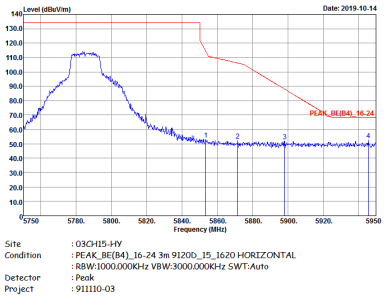
<CDD Mode>

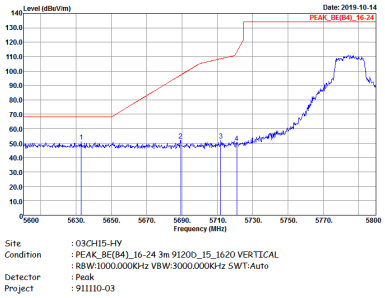
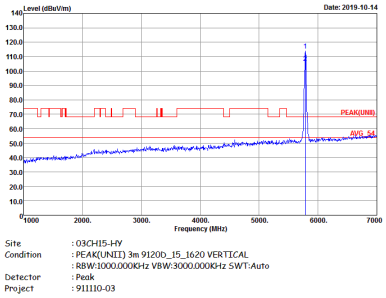
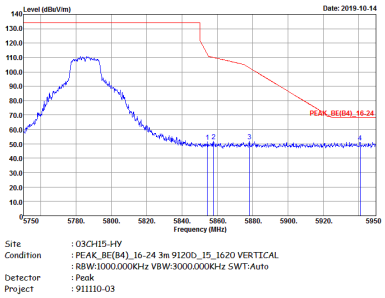
Band 4 - 5725~5850MHz

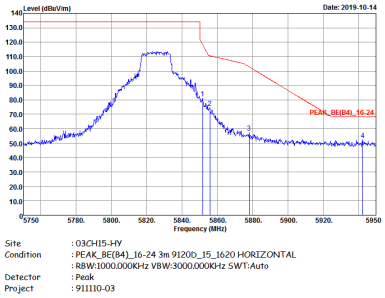
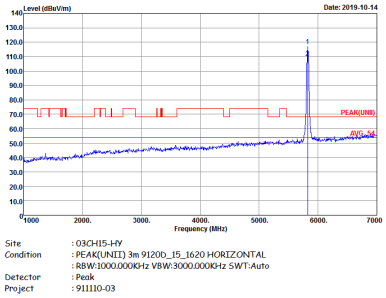
WIFI 802.11a (Band Edge @ 3m)

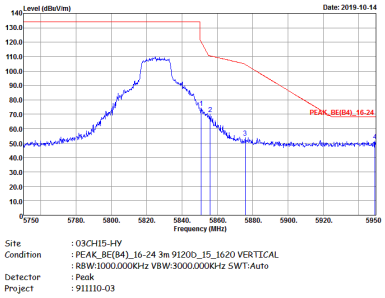
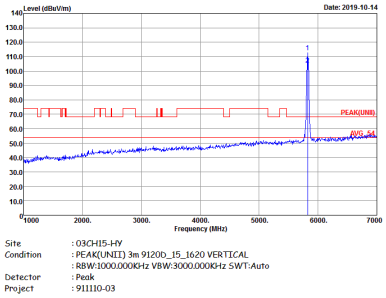
WIFI	**Band 4 5725~5850MHz Band Edge @ 3m**	
ANT	**802.11a CH149 5745MHz**	
1	**Horizontal**	**Fundamental**
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

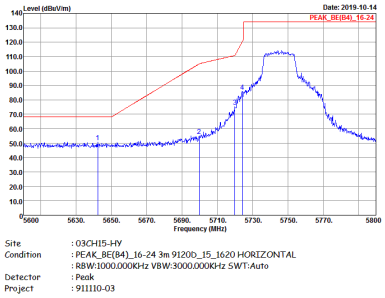
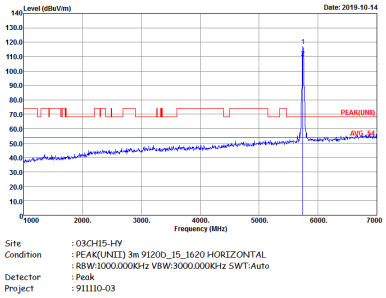
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

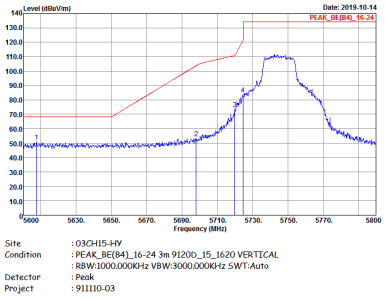
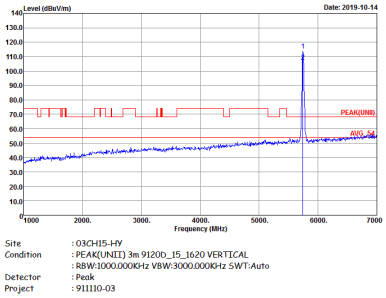
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

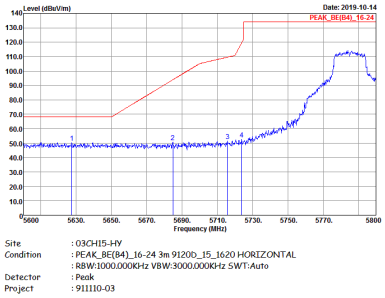
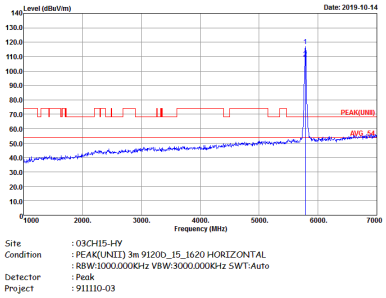
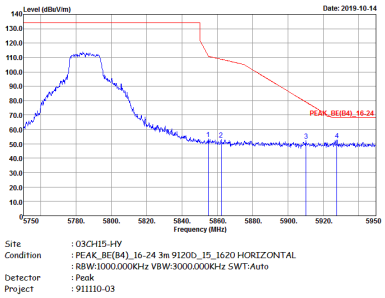
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak		

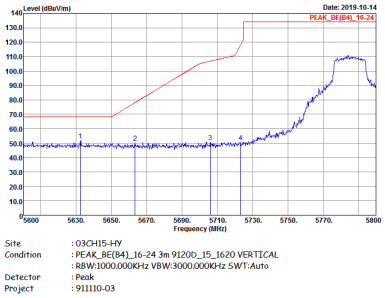
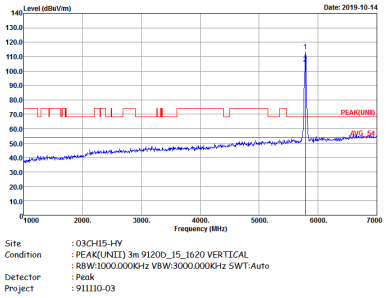
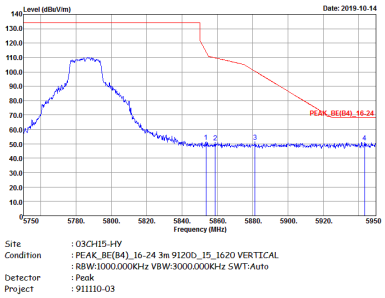
Band 4 5725~5850MHz

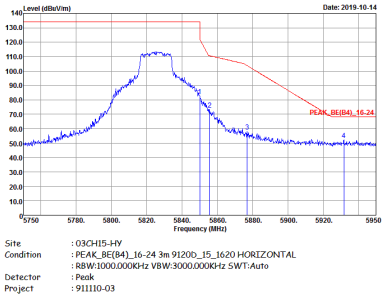
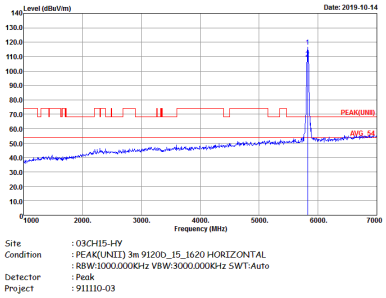
WIFI 802.11n HT20 (Band Edge @ 3m)

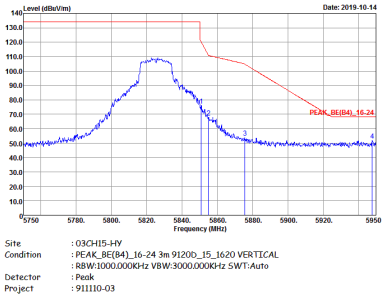
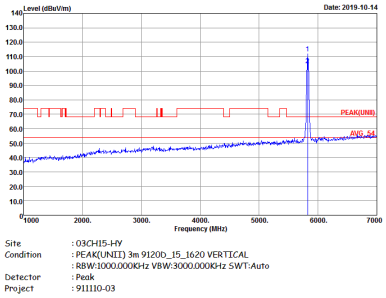
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

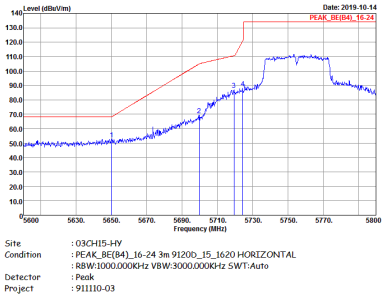
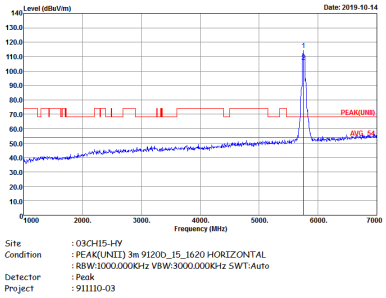
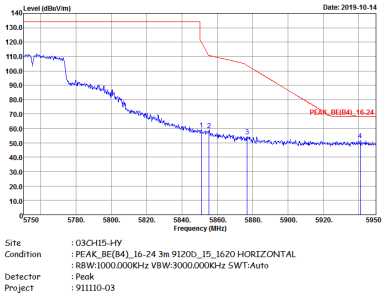
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

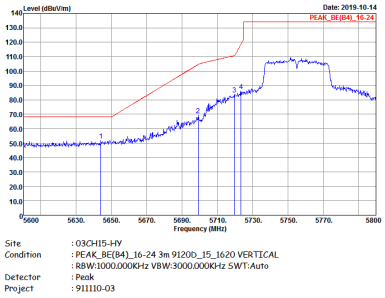
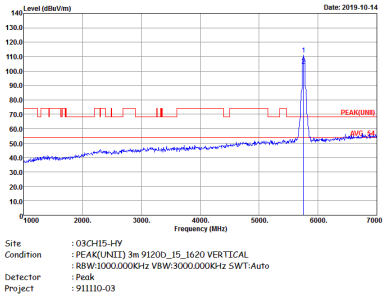
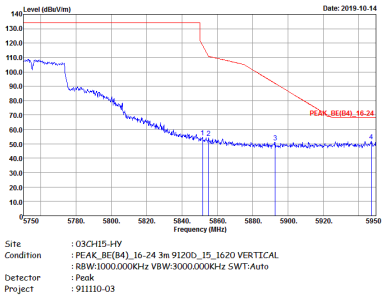
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

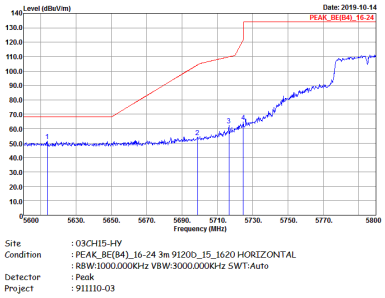
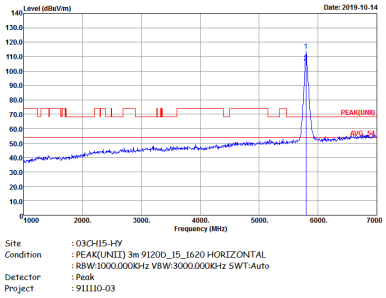
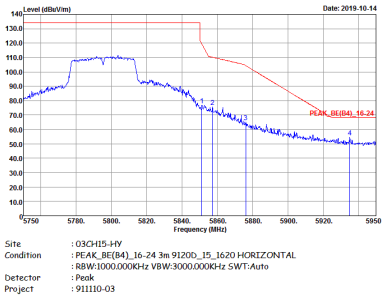
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak		

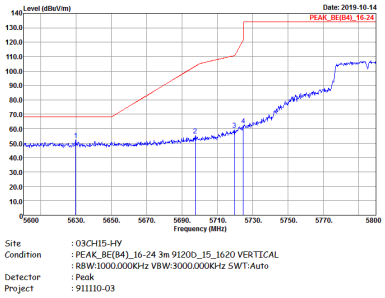
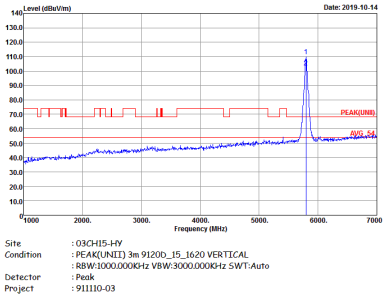
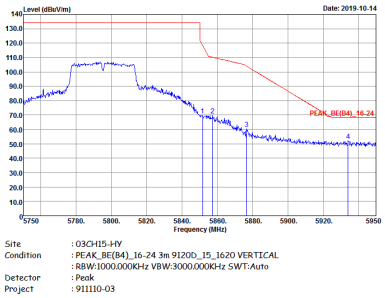
Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

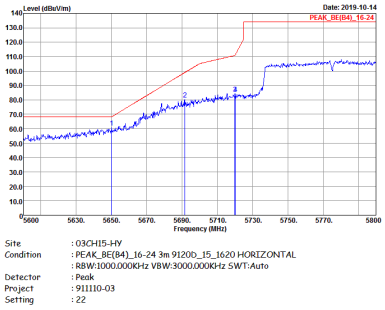
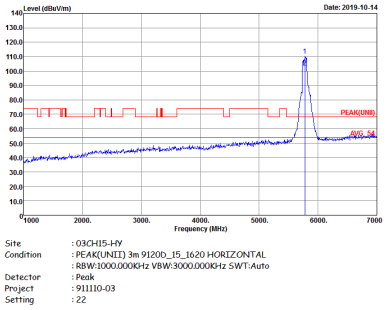
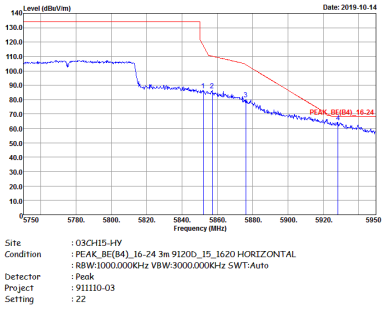
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

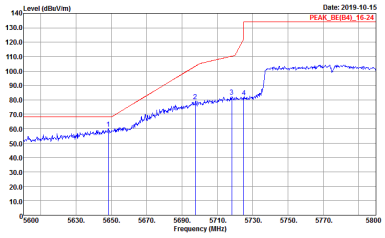
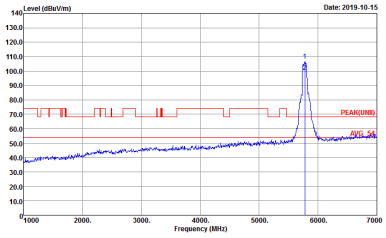
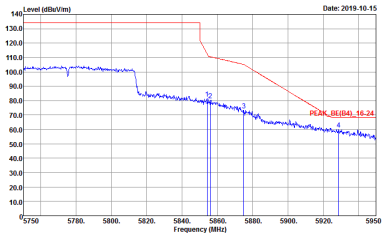
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

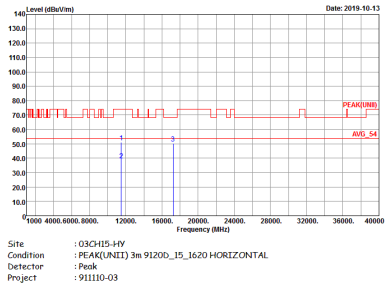
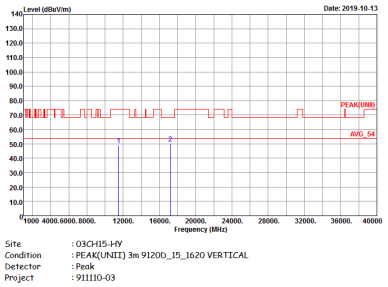
WIFI 802.11ac VHT80 (Band Edge @ 3m)

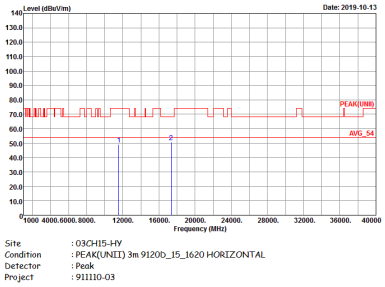
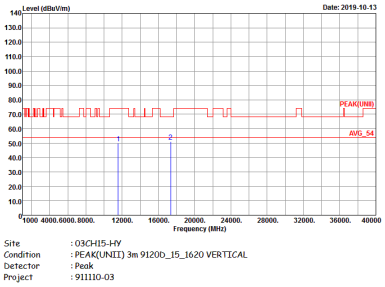
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

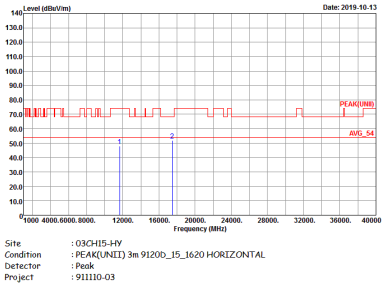
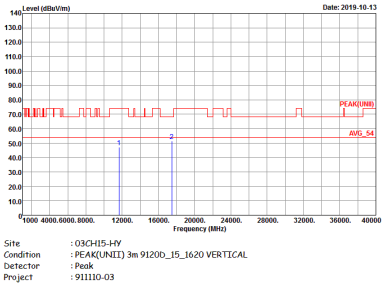
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03 Setting : 22	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03 Setting : 22
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03 Setting : 22	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

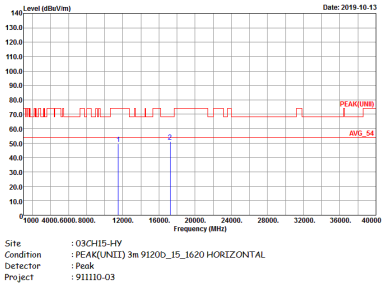
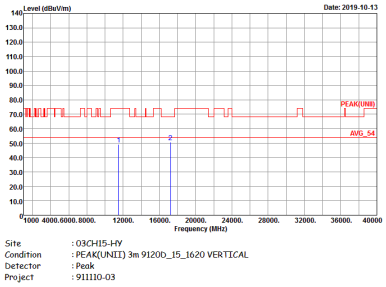
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

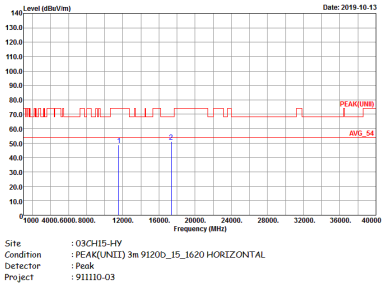
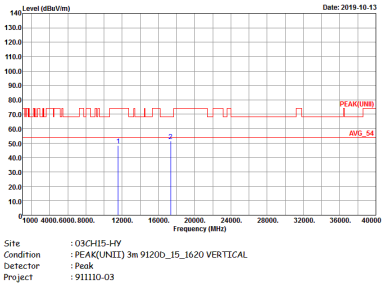
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

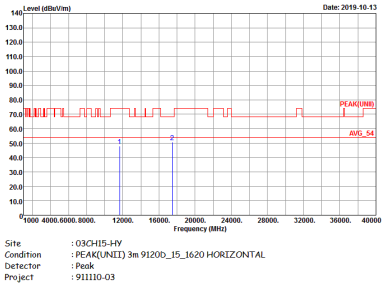
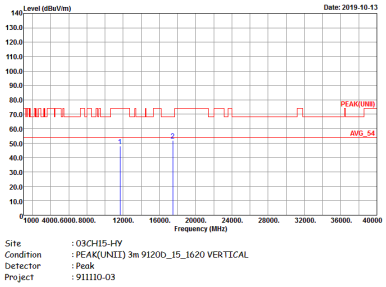
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

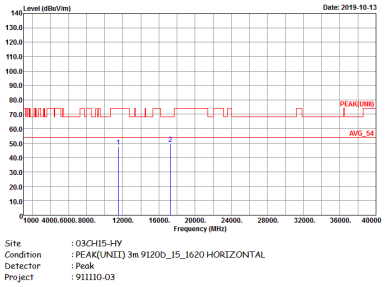
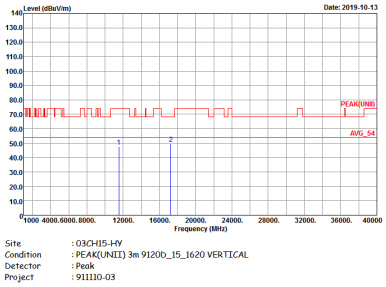
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

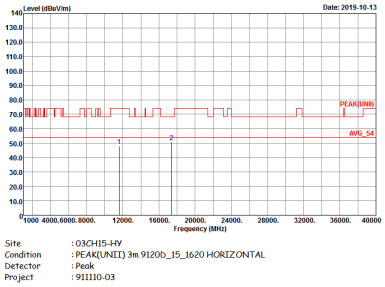
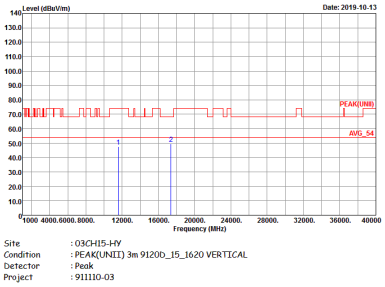
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

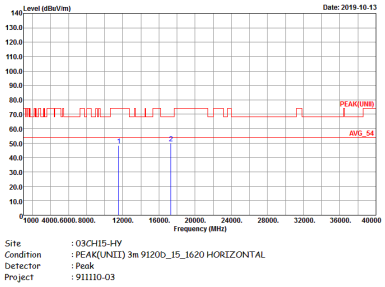
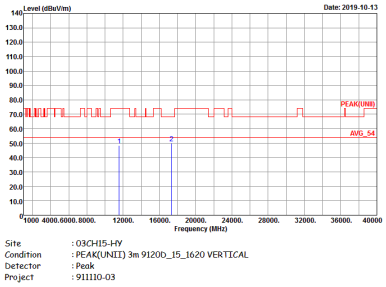
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.		

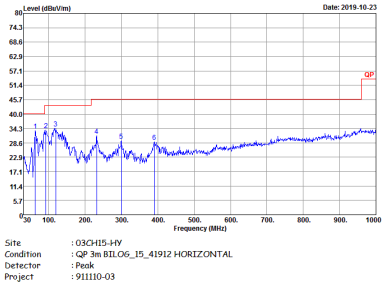
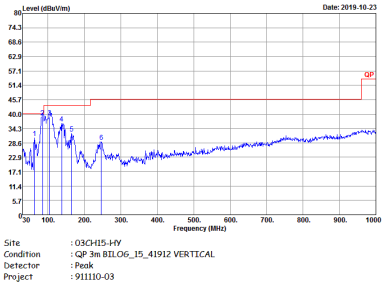
Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.		

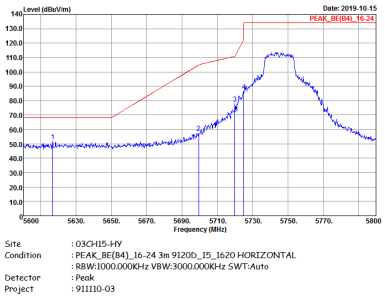
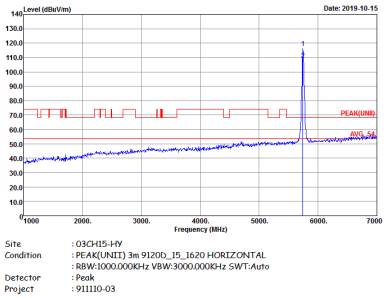
Emission below 1GHz

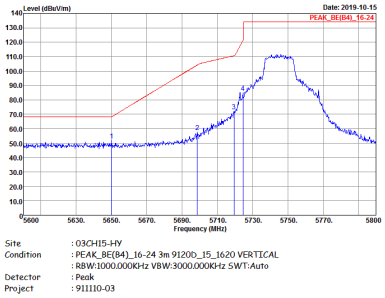
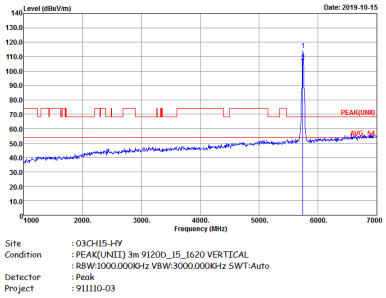
5GHz WIFI 802.11ac VHT80 (LF)

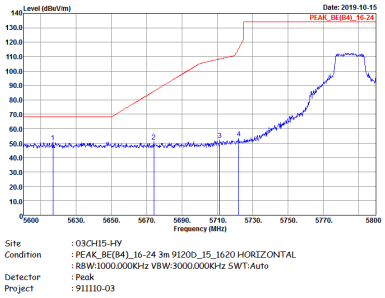
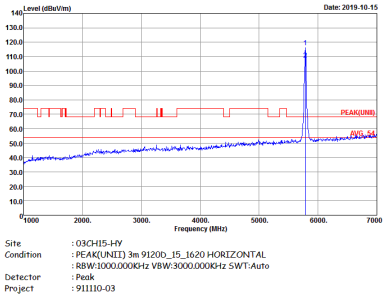
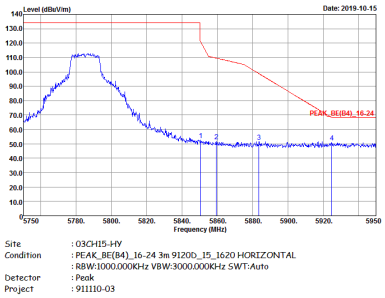
WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak		

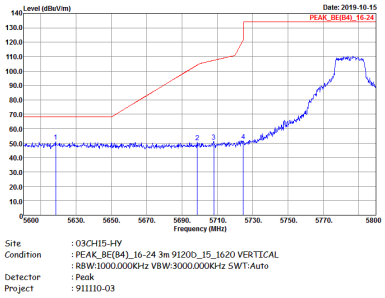
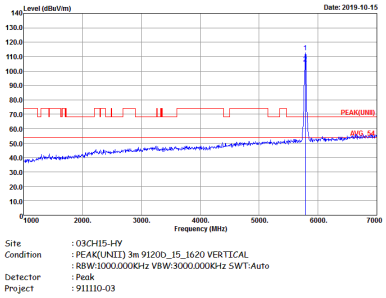
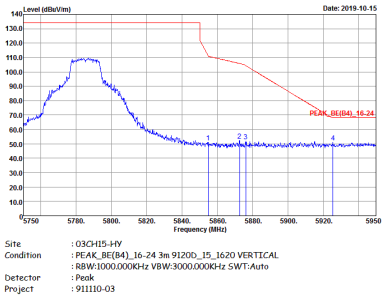
Band 4 - 5725~5850MHz

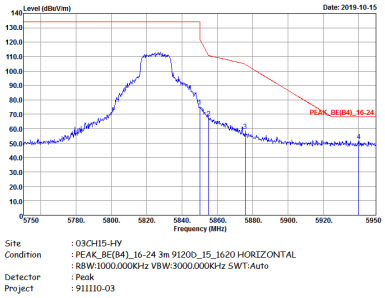
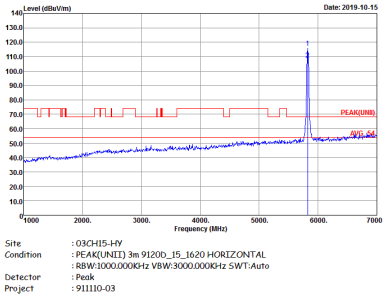
WIFI 802.11a (Band Edge @ 3m)

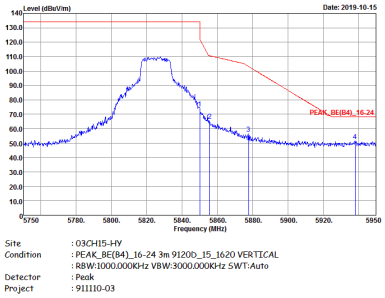
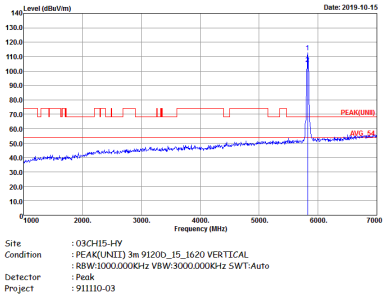
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

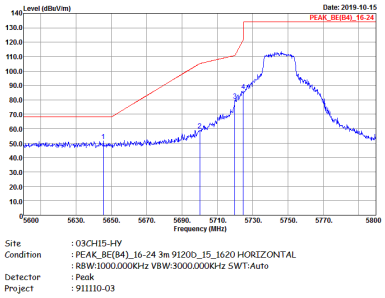
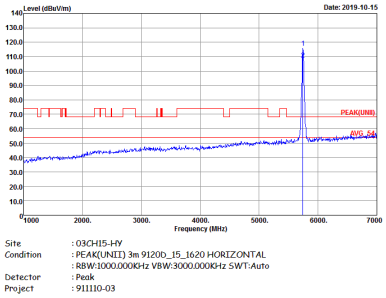
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

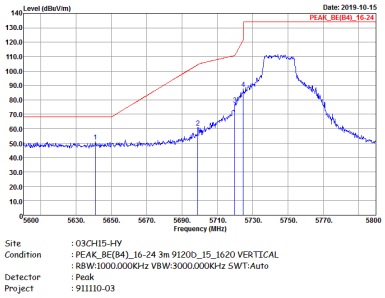
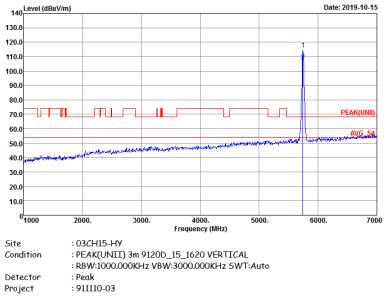
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

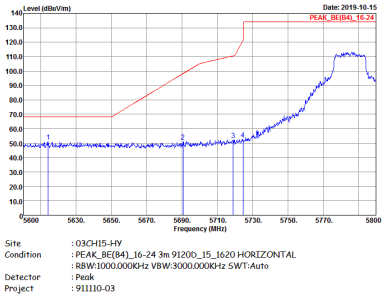
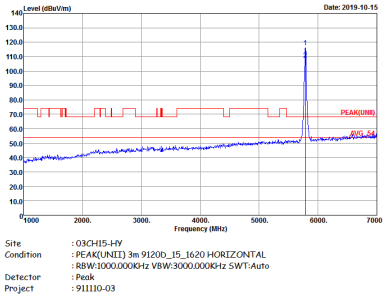
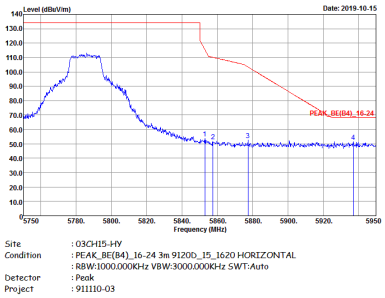
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak		

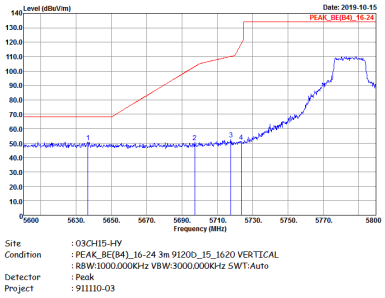
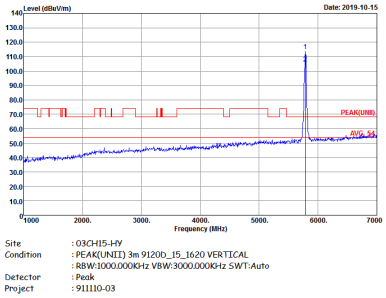
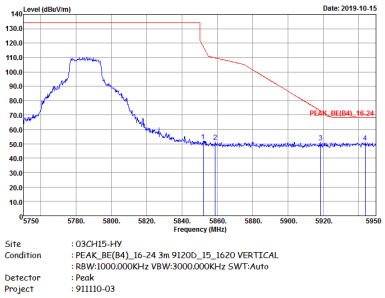
Band 4 5725~5850MHz

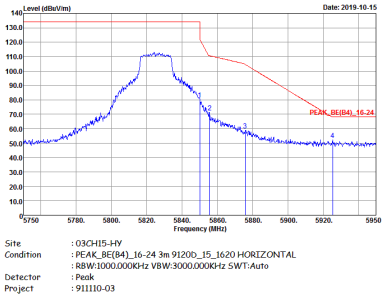
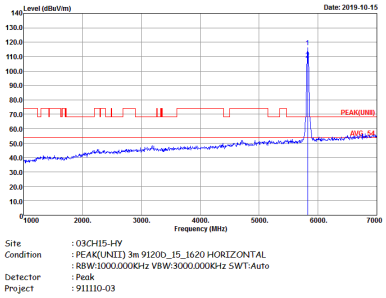
WIFI 802.11n HT20 (Band Edge @ 3m)

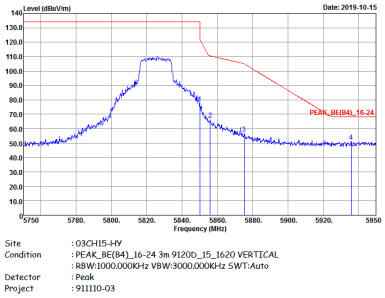
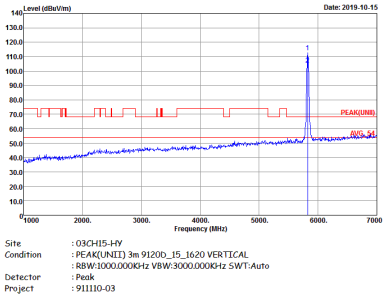
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

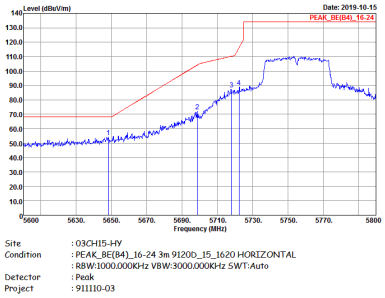
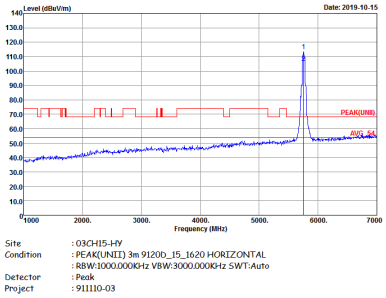
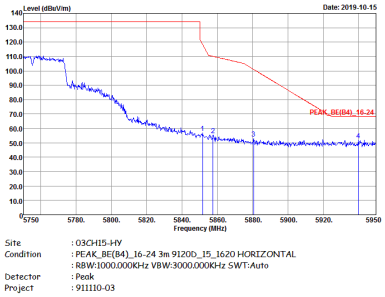
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

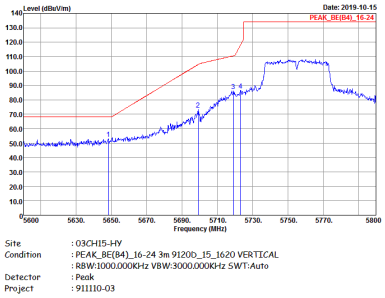
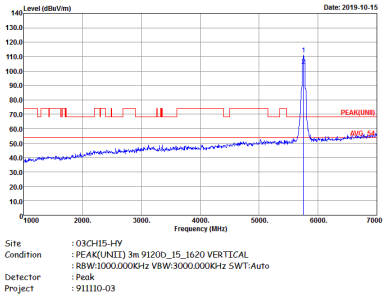
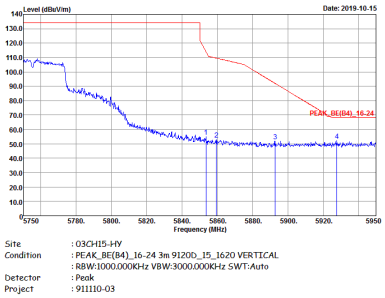
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

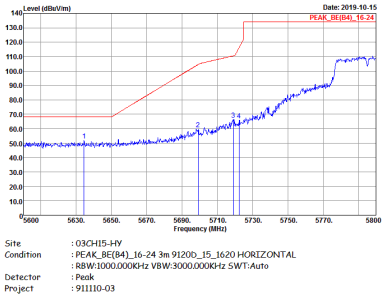
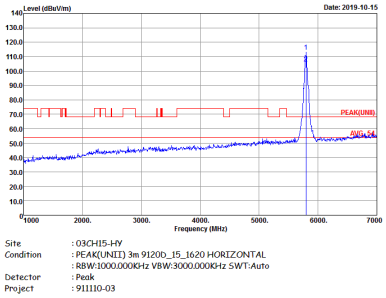
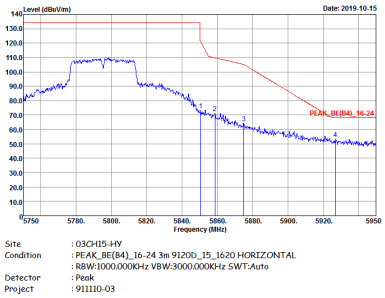
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak		

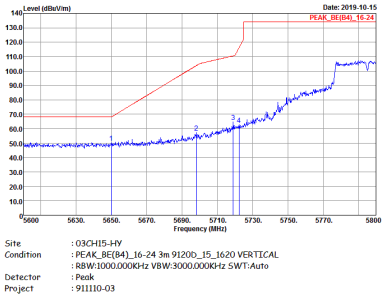
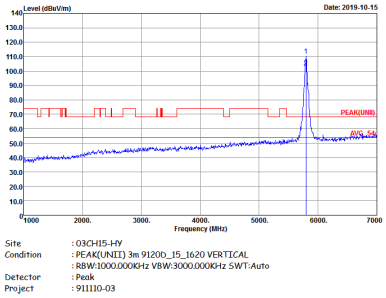
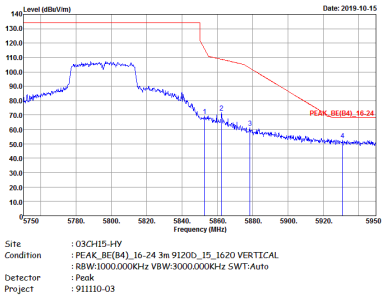
Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

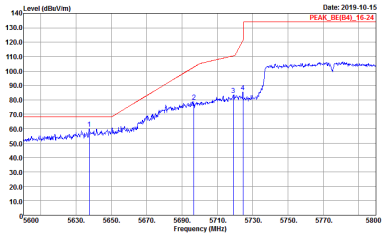
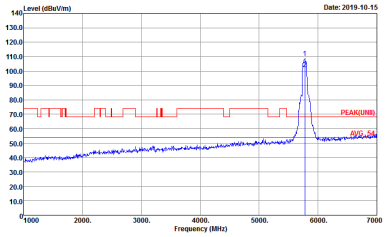
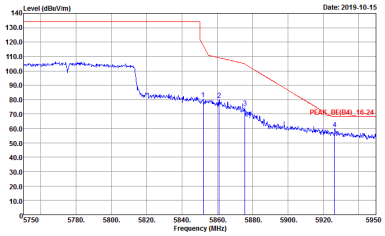
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

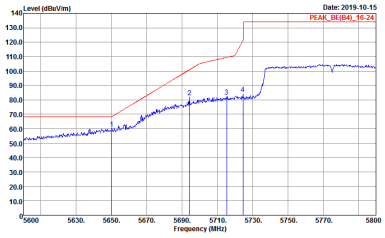
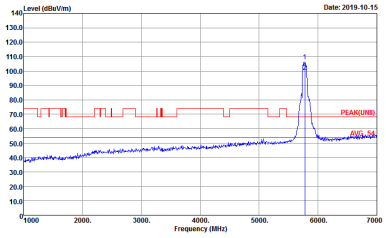
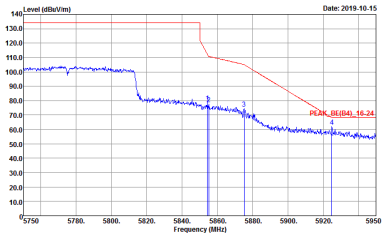
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

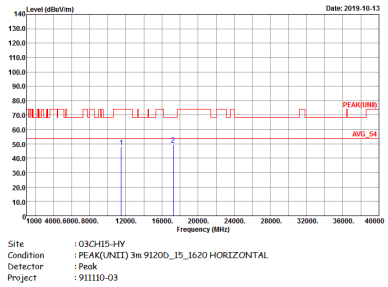
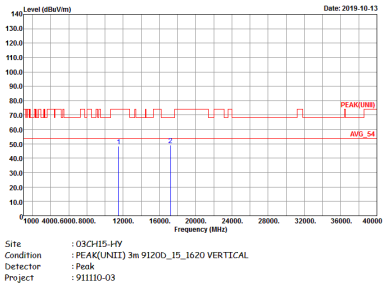
WIFI 802.11ac VHT80 (Band Edge @ 3m)

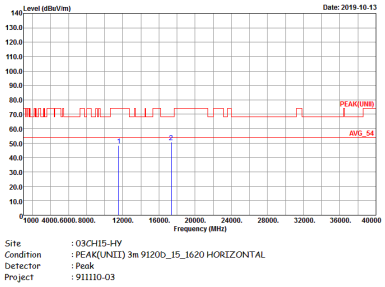
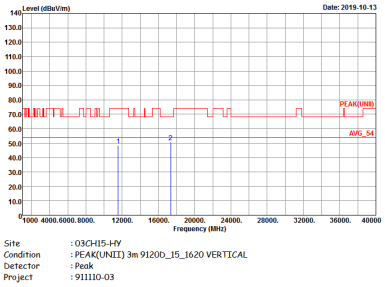
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03 Setting : 21	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03 Setting : 21
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03 Setting : 21	Left blank

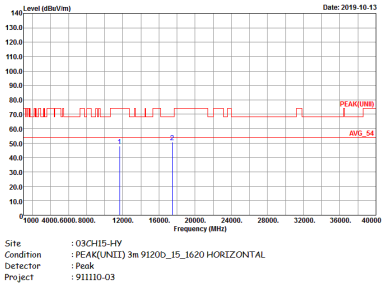
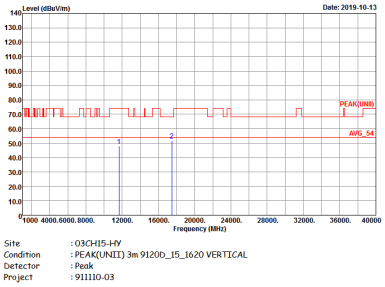
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03 Setting : 21	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03 Setting : 21
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03 Setting : 21	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

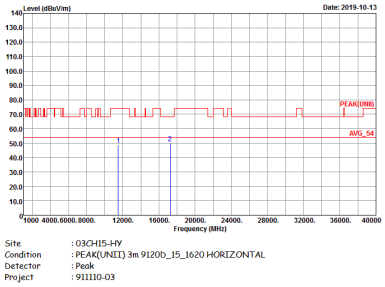
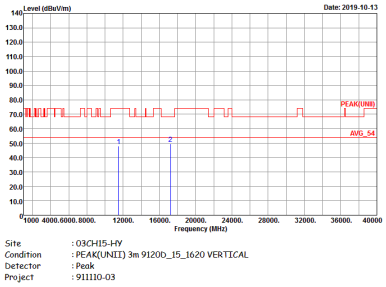
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

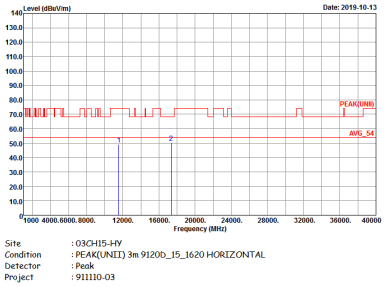
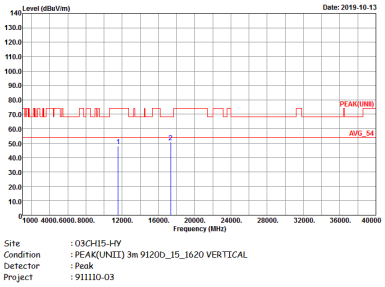
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.		

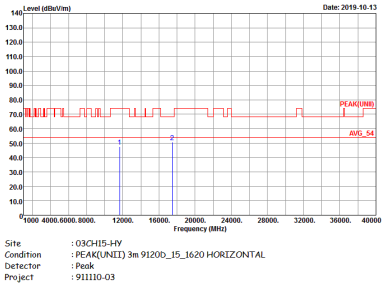
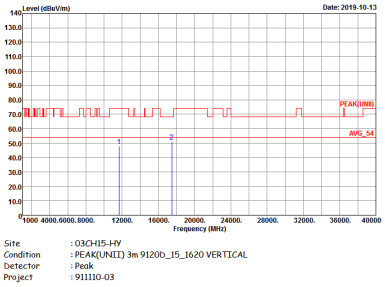
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 HORIZONTAL Detector : Peak Project : 911110-03	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 VERTICAL Detector : Peak Project : 911110-03

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

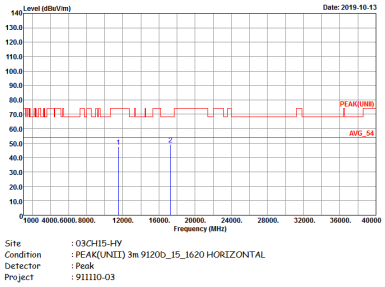
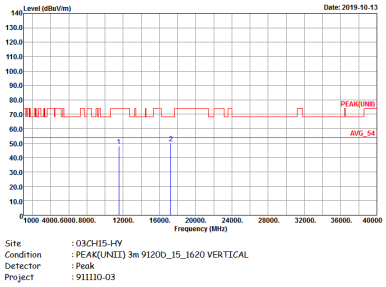
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

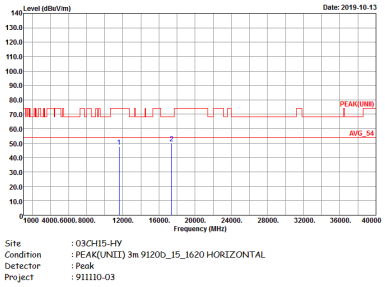
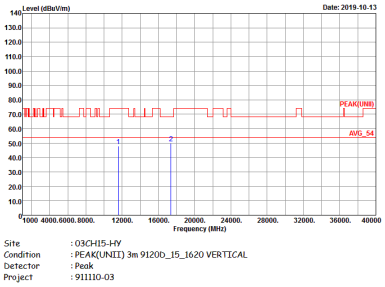
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

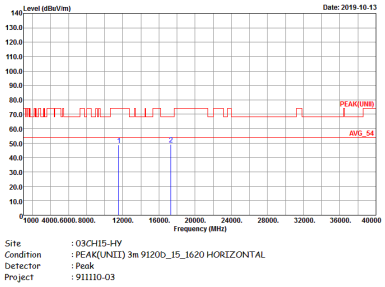
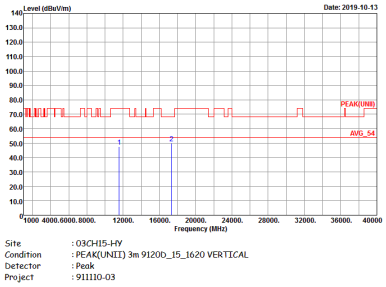
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Vertical
Peak Avg.		

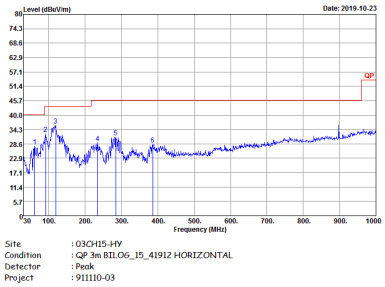
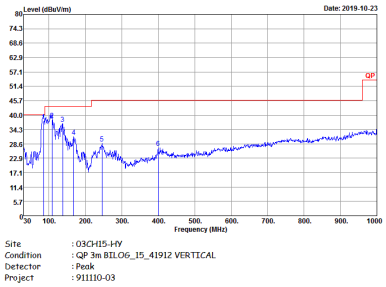
Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Vertical
Peak Avg.		

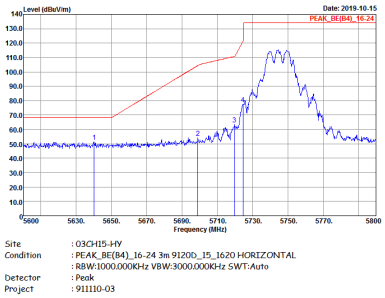
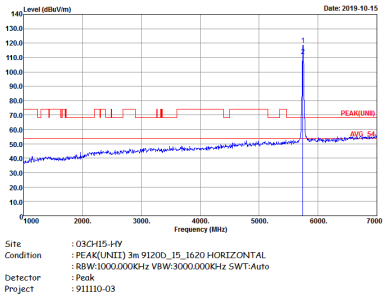
Emission below 1GHz

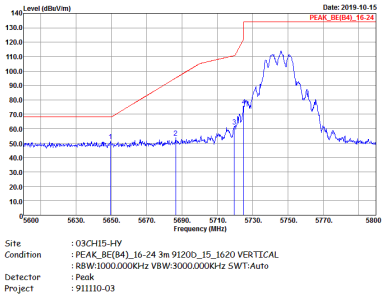
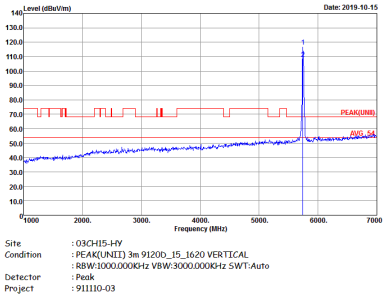
5GHz WIFI 802.11ac VHT80 (LF)

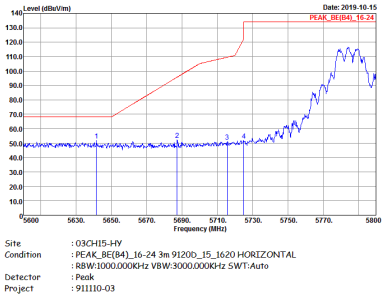
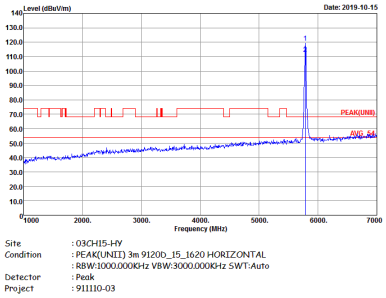
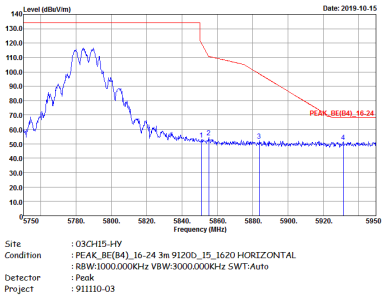
WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
2	Horizontal	Vertical
QP / Peak		

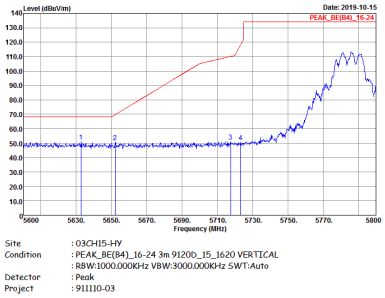
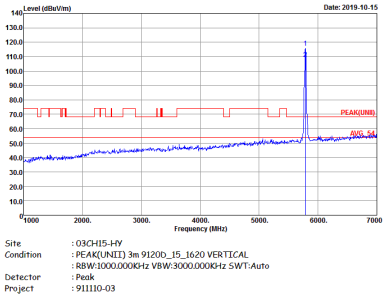
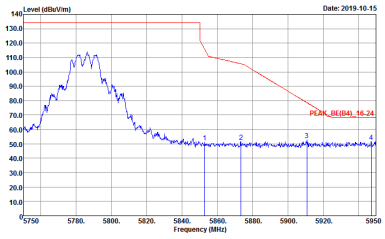
Band 4 - 5725~5850MHz

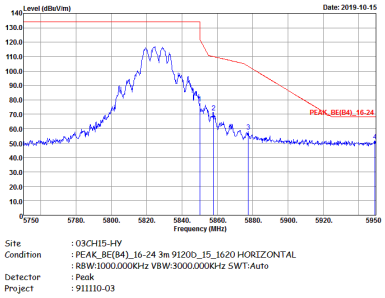
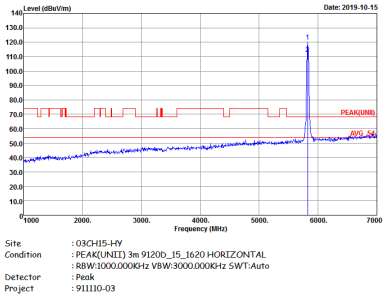
WIFI 802.11a (Band Edge @ 3m)

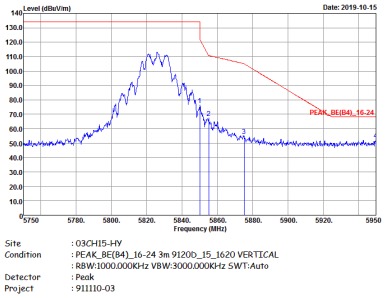
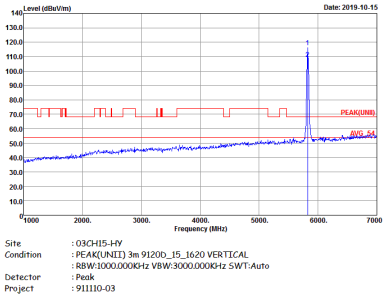
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

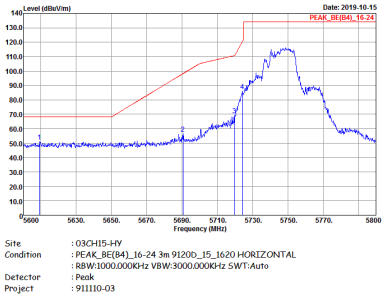
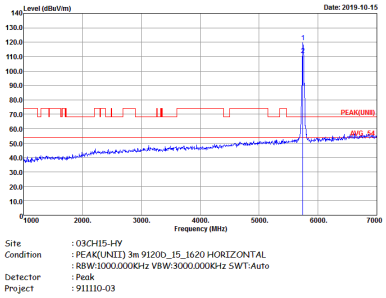
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03	Left blank

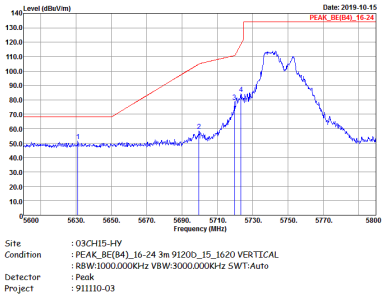
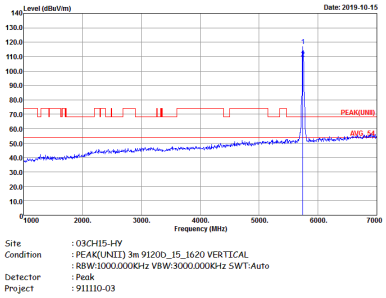
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

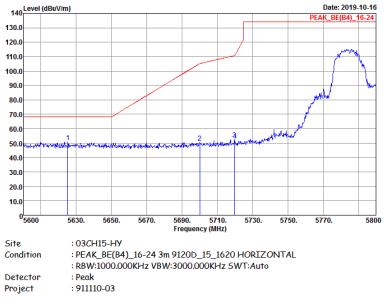
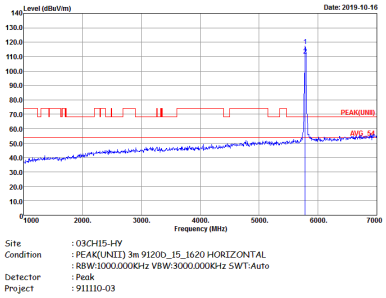
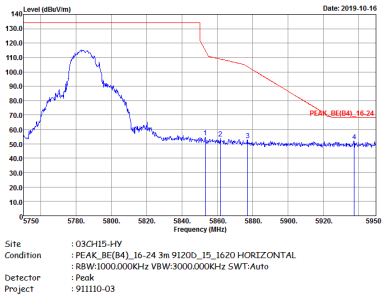
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

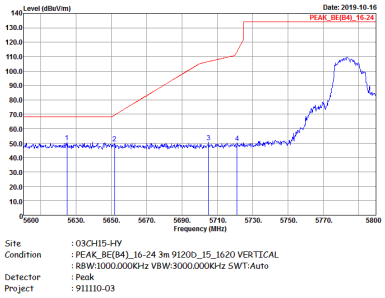
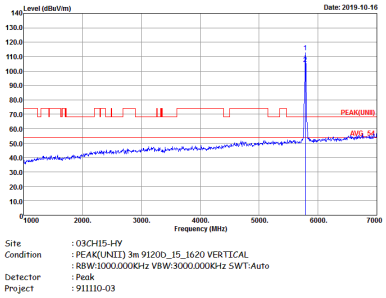
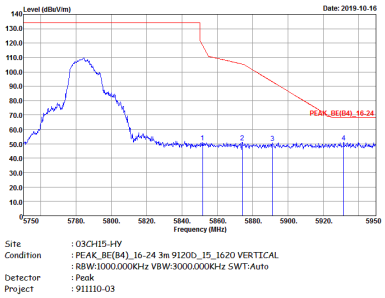
Band 4 5725~5850MHz

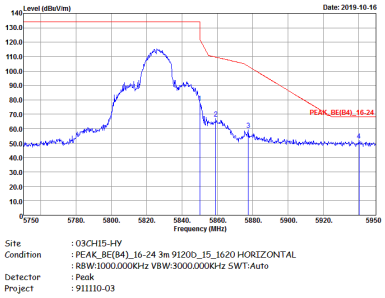
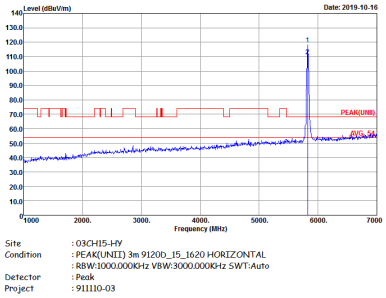
WIFI 802.11n HT20 (Band Edge @ 3m)

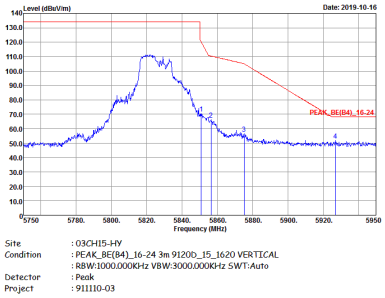
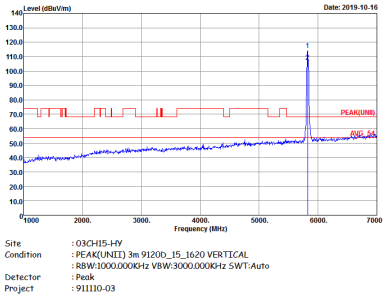
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

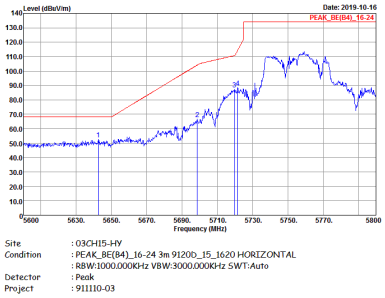
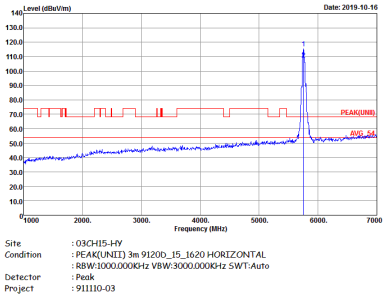
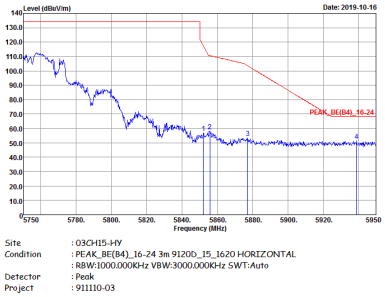
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

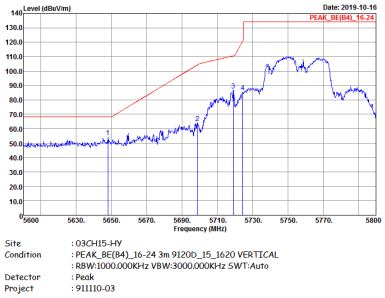
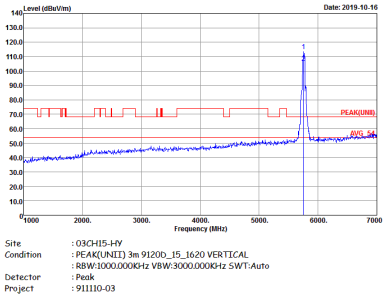
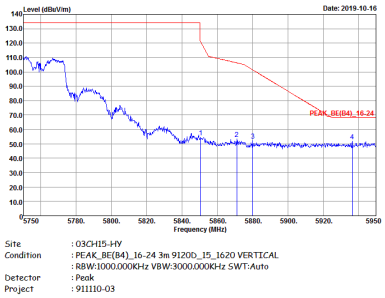
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

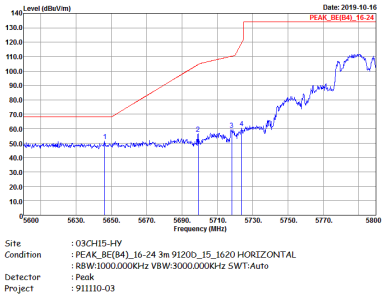
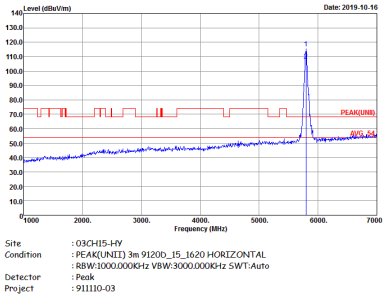
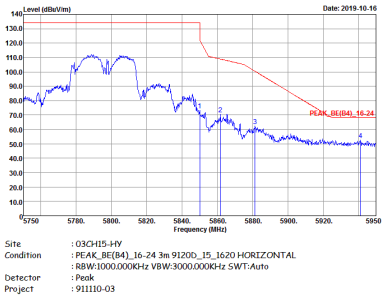
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

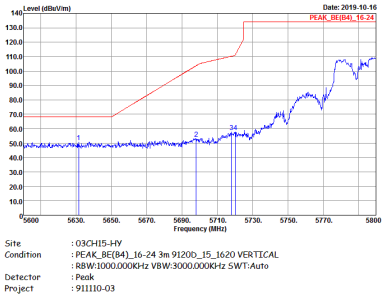
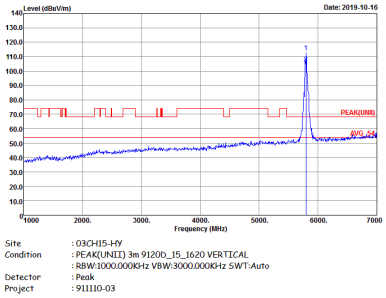
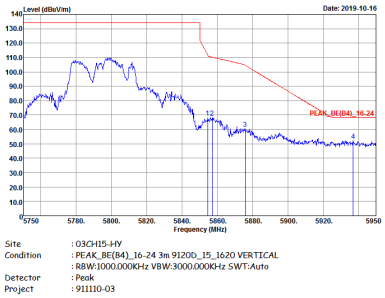
Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

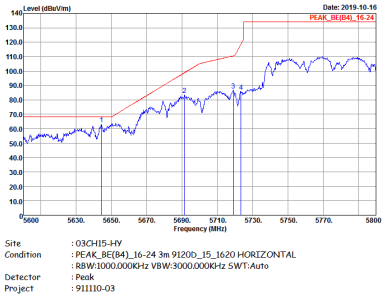
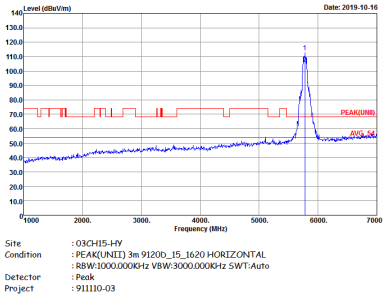
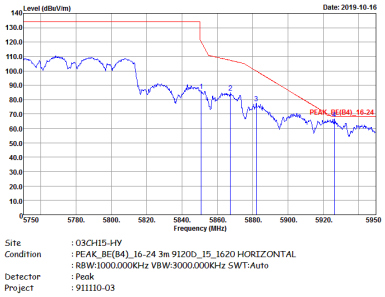
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

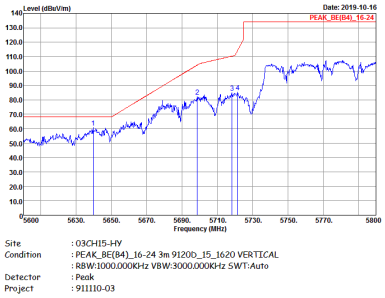
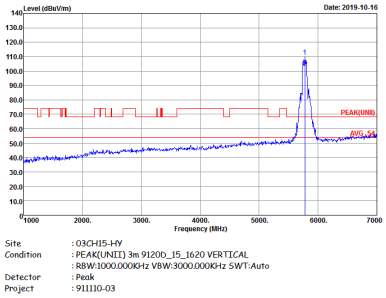
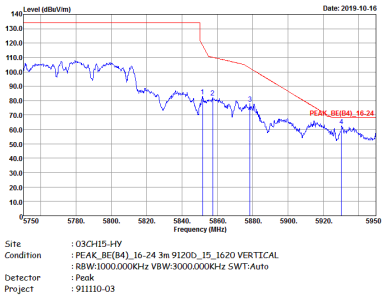
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

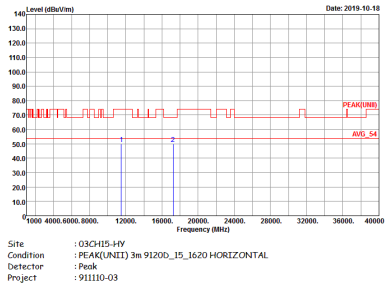
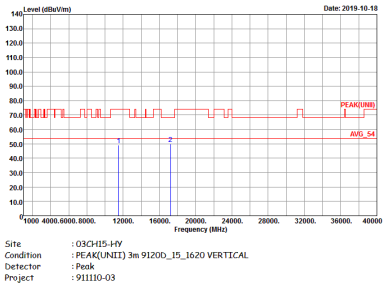
WIFI 802.11ac VHT80 (Band Edge @ 3m)

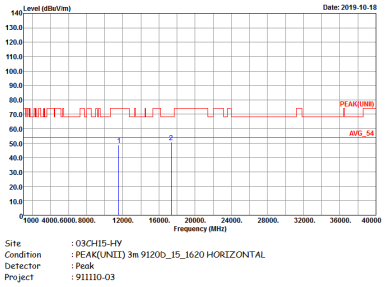
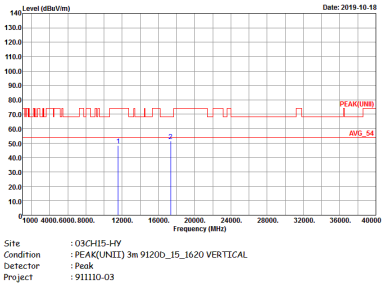
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

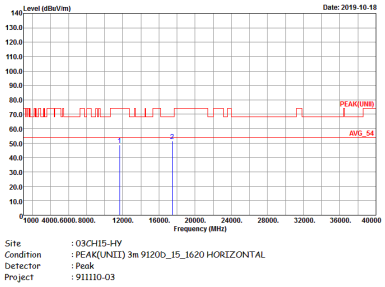
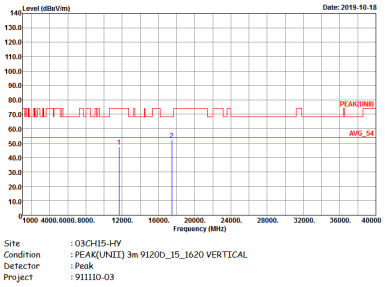
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

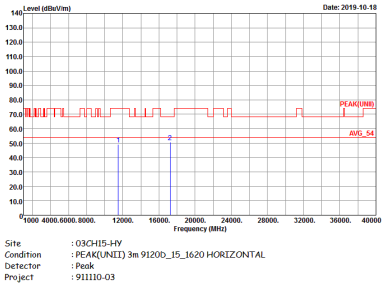
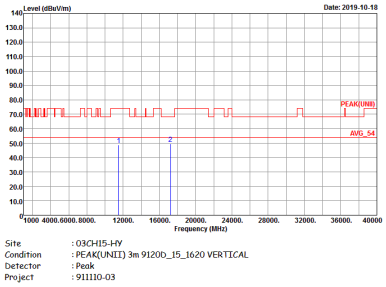
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

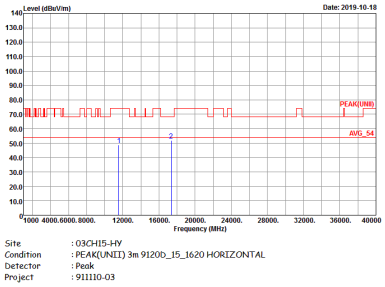
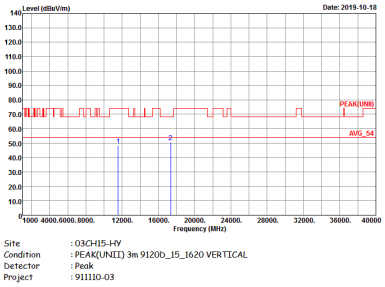
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

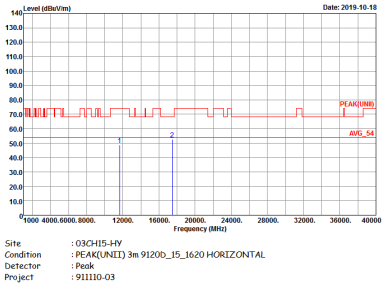
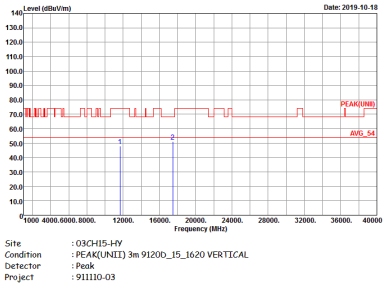
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

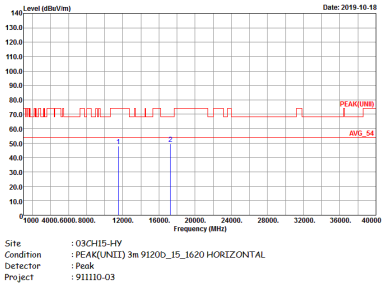
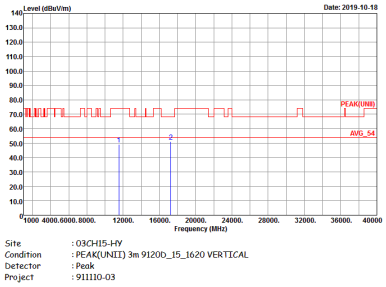
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

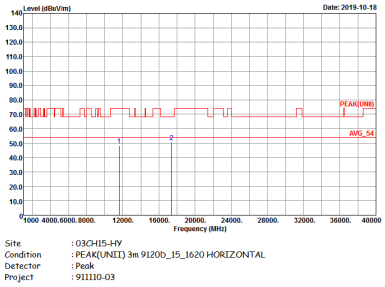
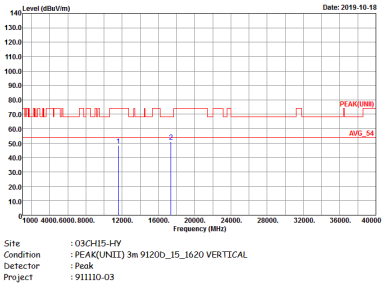
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 HORIZONTAL Detector : Peak Project : 911110-03	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 VERTICAL Detector : Peak Project : 911110-03

Band 4 5725~5850MHz

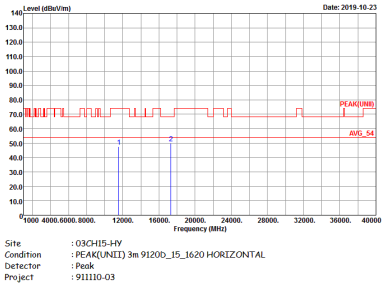
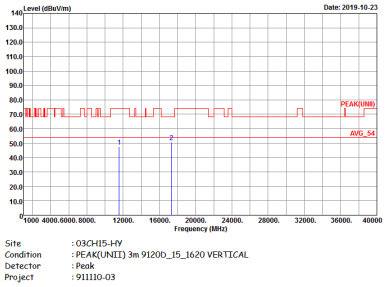
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.		

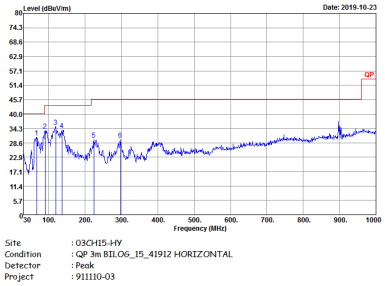
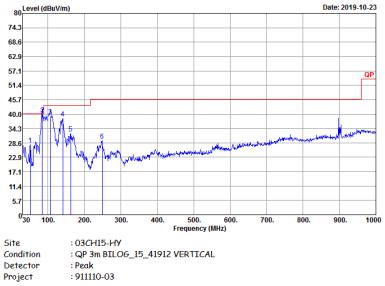
Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

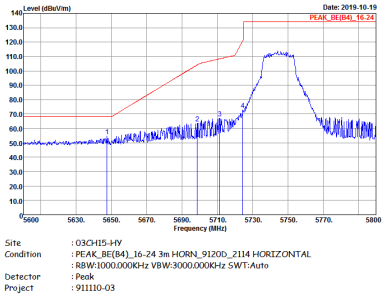
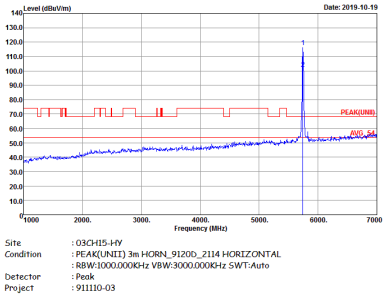
5GHz WIFI 802.11ac VHT80 (LF)

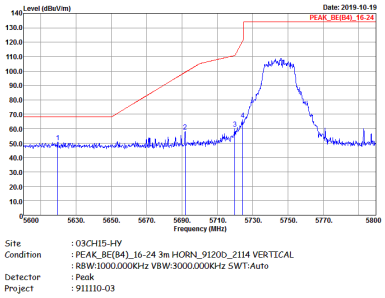
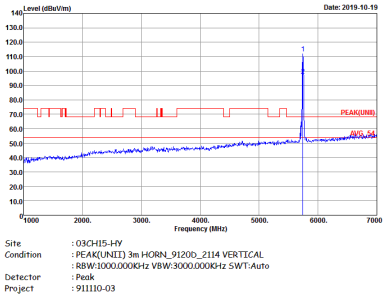
WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		

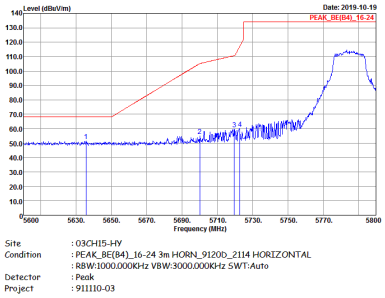
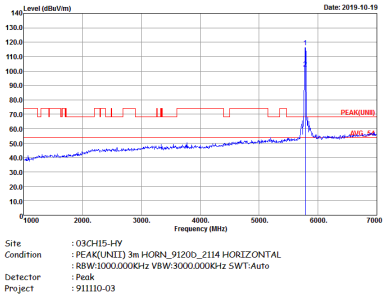
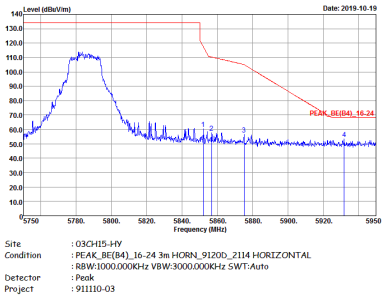
<TXBF Mode>

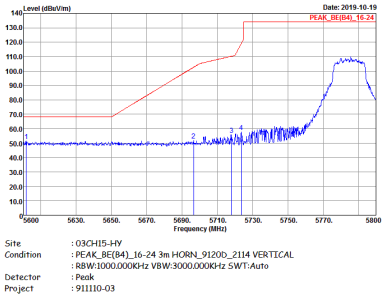
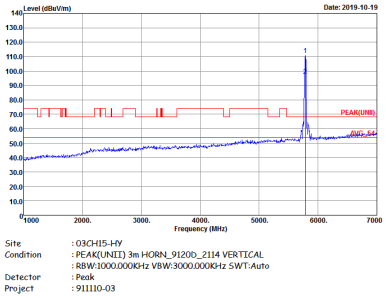
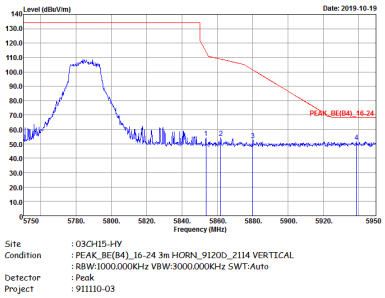
Band 4 - 5725~5850MHz

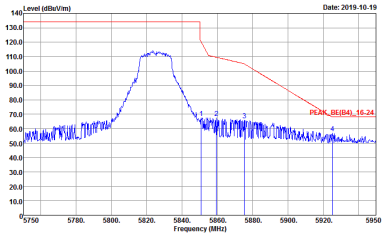
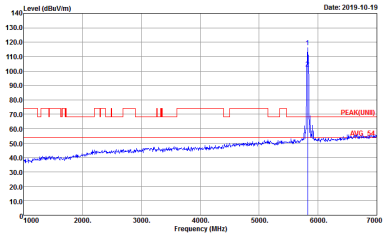
WIFI 802.11ac VHT20 (Band Edge @ 3m)

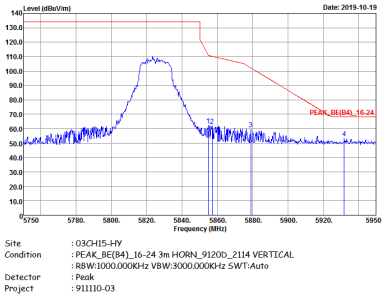
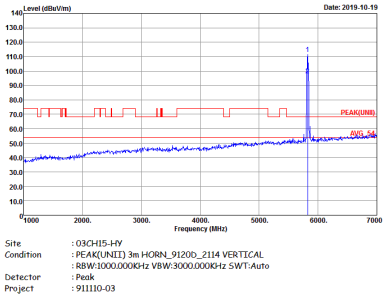
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak Avg.		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

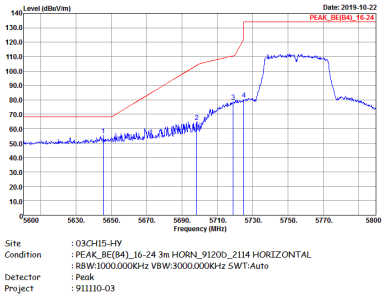
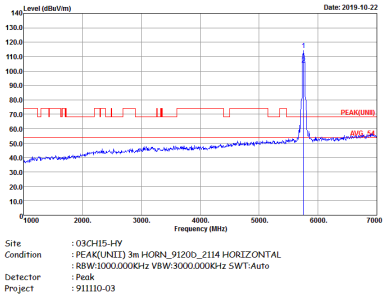
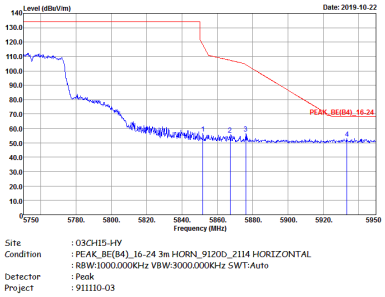
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

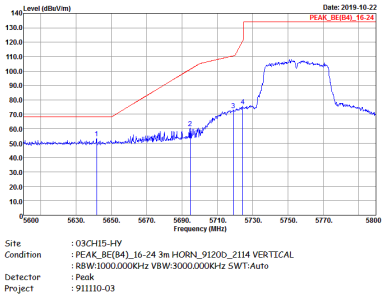
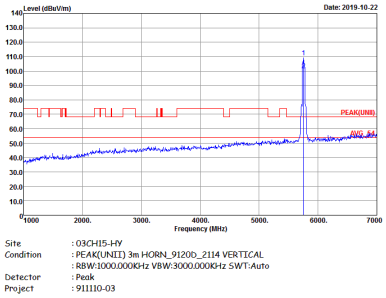
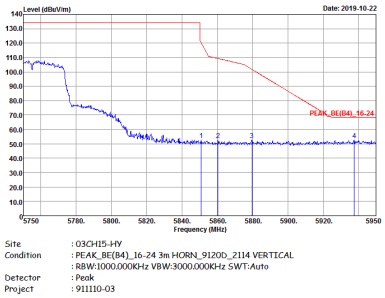
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_2114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03	 Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_9120D_2114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03

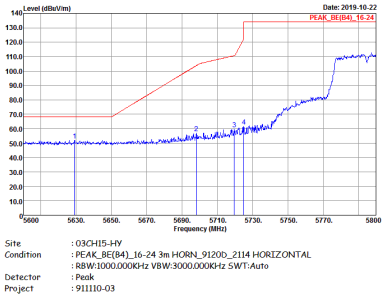
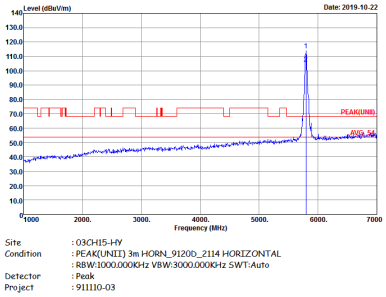
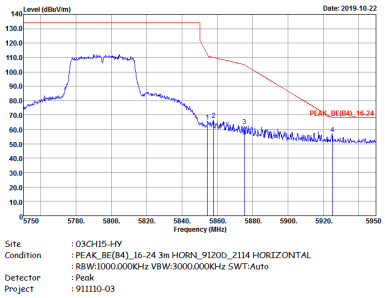
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak Avg.		

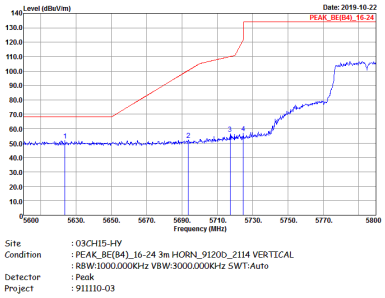
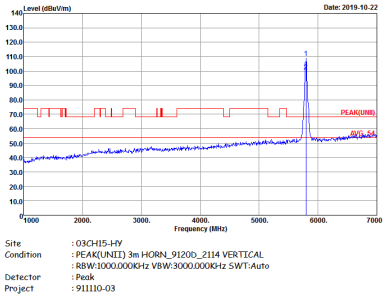
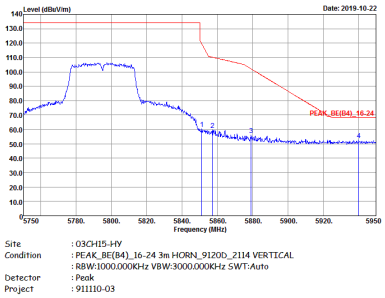
Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

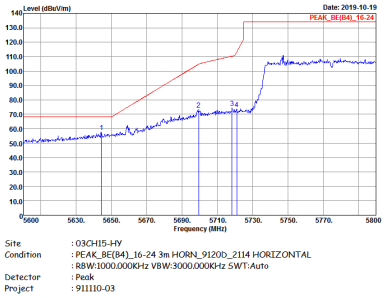
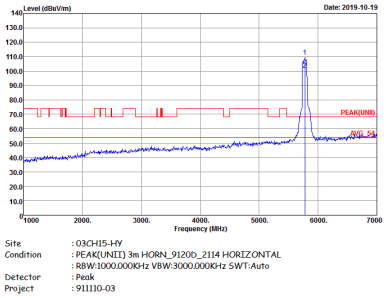
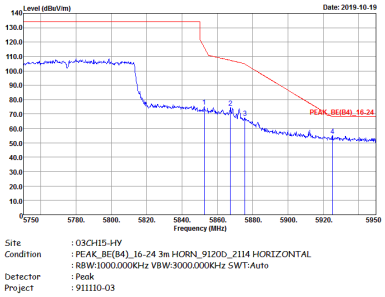
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

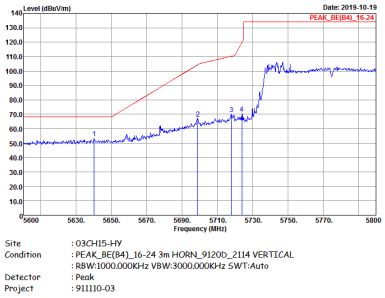
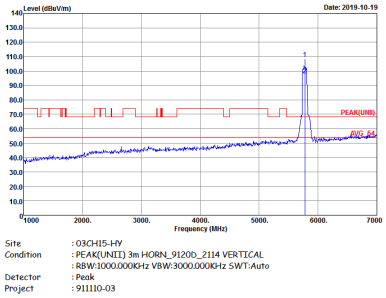
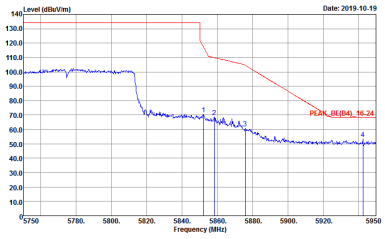
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

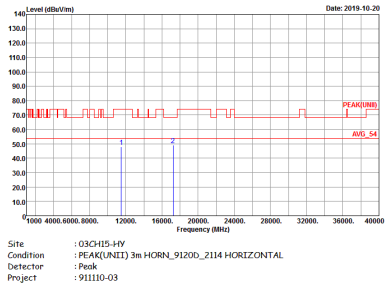
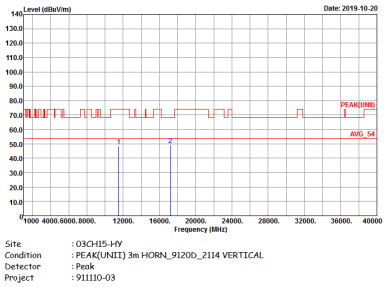
WIFI 802.11ac VHT80 (Band Edge @ 3m)

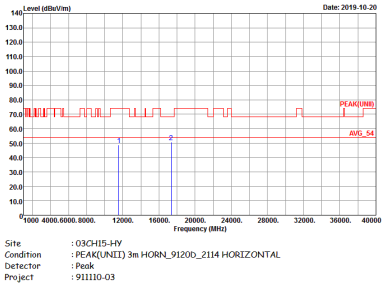
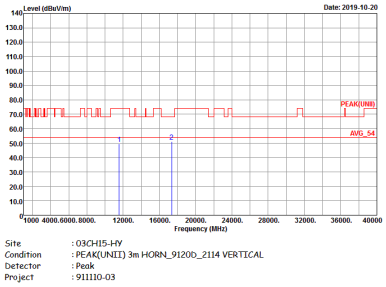
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

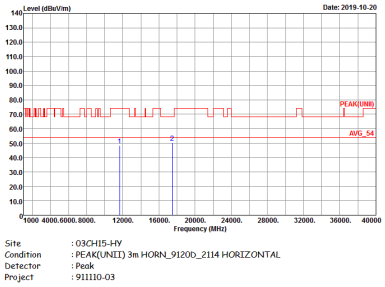
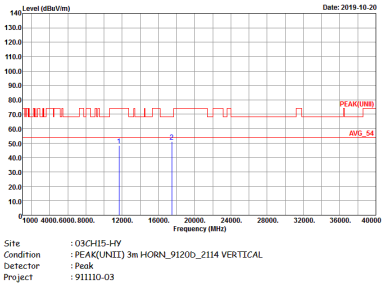
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_2114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03	 Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_9120D_2114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_2114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911110-03	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

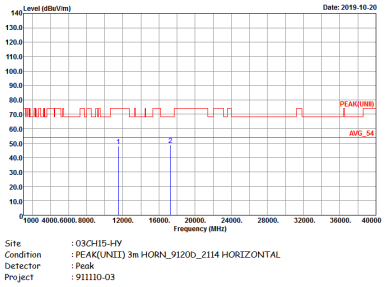
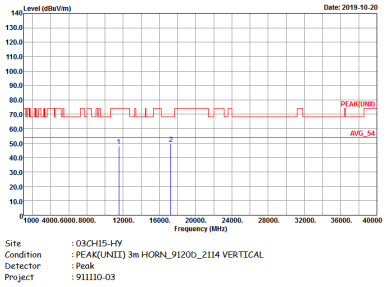
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

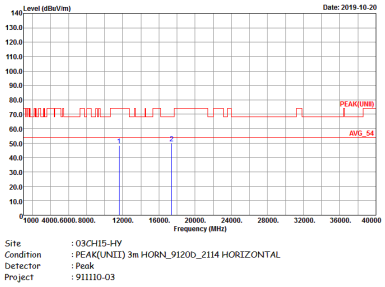
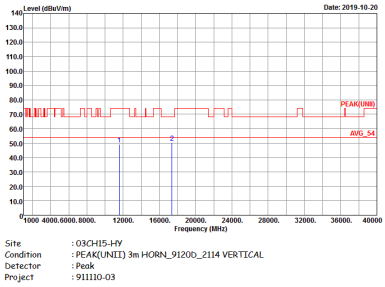
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_9120D_2114 HORIZONTAL Detector : Peak Project : 911110-03	 Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_9120D_2114 VERTICAL Detector : Peak Project : 911110-03

Band 4 5725~5850MHz

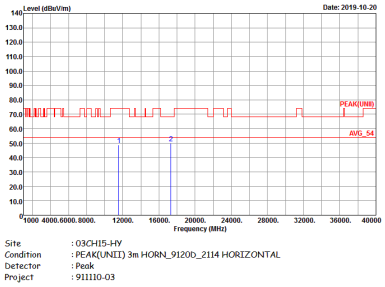
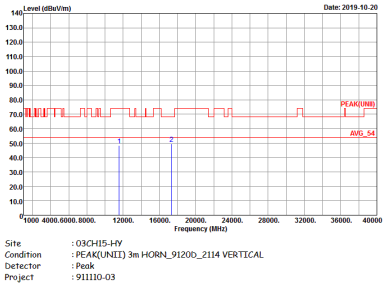
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_9120D_2114 HORIZONTAL Detector : Peak Project : 911110-03	 Site : 03CH15-HY Condition : PEAK(UNII) 3m HORN_9120D_2114 VERTICAL Detector : Peak Project : 911110-03

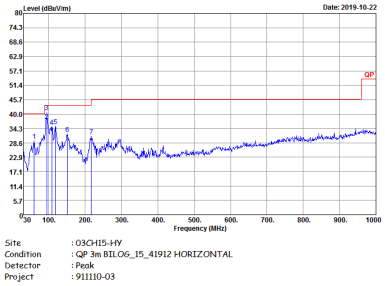
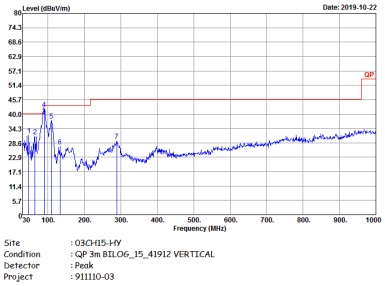
Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

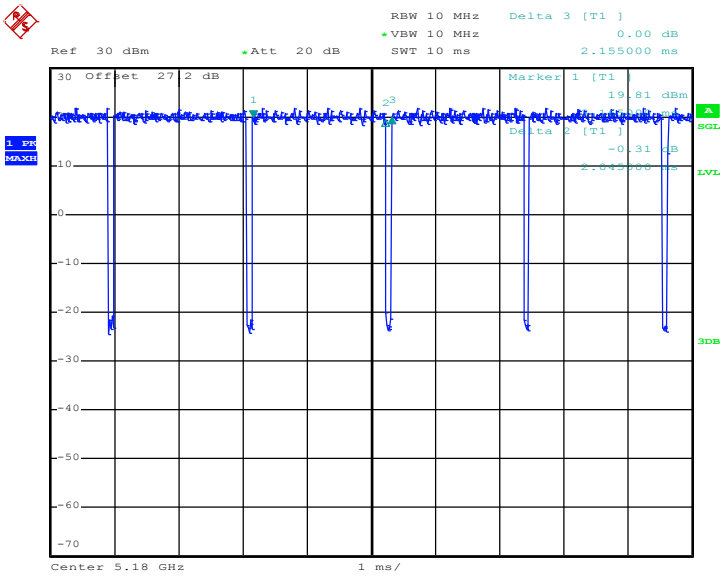
WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11a	94.90	2045	0.49	1kHz	0.23
2	802.11a	95.15	2060	0.49	1kHz	0.22
1+2	802.11a for Ant. 1	94.92	2055	0.49	1kHz	0.23
1+2	802.11a for Ant. 2	95.80	2055	0.49	1kHz	0.19
1	5GHz 802.11n HT20	94.33	1915	0.52	1kHz	0.25
2	5GHz 802.11n HT20	94.57	1915	0.52	1kHz	0.24
1+2	5GHz 802.11n HT20 for Ant. 1	94.58	1920	0.52	1kHz	0.24
1+2	5GHz 802.11n HT20 for Ant. 2	94.57	1915	0.52	1kHz	0.24
1	5GHz 802.11n HT40	92.20	945	1.06	3kHz	0.35
2	5GHz 802.11n HT40	91.83	955	1.05	3kHz	0.37
1+2	5GHz 802.11n HT40 for Ant. 1	91.39	955	1.05	3kHz	0.39
1+2	5GHz 802.11n HT40 for Ant. 2	92.23	950	1.05	3kHz	0.35
1	5GHz 802.11ac VHT20	94.88	1945	0.51	1kHz	0.23
2	5GHz 802.11ac VHT20	95.30	1925	0.52	1kHz	0.21
1+2	5GHz 802.11ac VHT20 for Ant. 1	95.77	1925	0.52	1kHz	0.19
1+2	5GHz 802.11ac VHT20 for Ant. 2	94.36	1925	0.52	1kHz	0.25
1	5GHz 802.11ac VHT40	91.79	950	1.05	3kHz	0.37
2	5GHz 802.11ac VHT40	91.83	955	1.05	3kHz	0.37
1+2	5GHz 802.11ac VHT40 for Ant. 1	90.95	955	1.05	3kHz	0.41
1+2	5GHz 802.11ac VHT40 for Ant. 2	90.91	950	1.05	3kHz	0.41
1	5GHz 802.11ac VHT80	85.19	460	2.17	3kHz	0.70
2	5GHz 802.11ac VHT80	85.32	465	2.15	3kHz	0.69
1+2	5GHz 802.11ac VHT80 for Ant. 1	85.45	470	2.13	3kHz	0.68
1+2	5GHz 802.11ac VHT80 for Ant. 2	86.11	465	2.15	3kHz	0.65

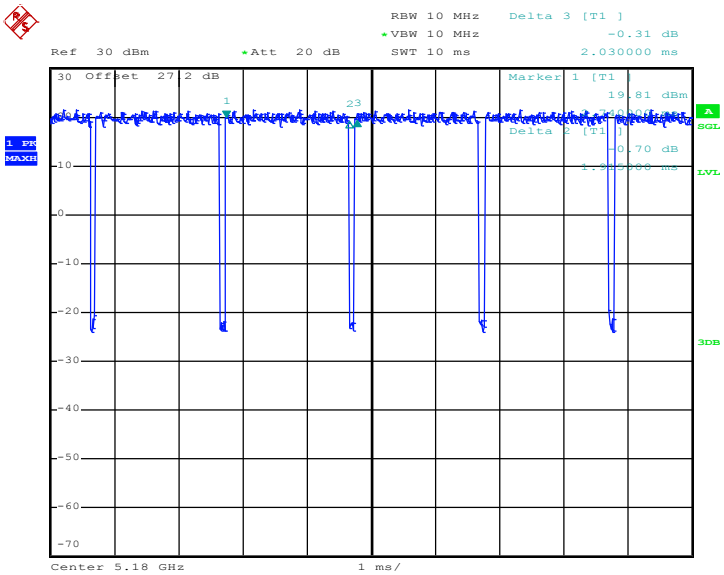
<Ant. 1>

802.11a



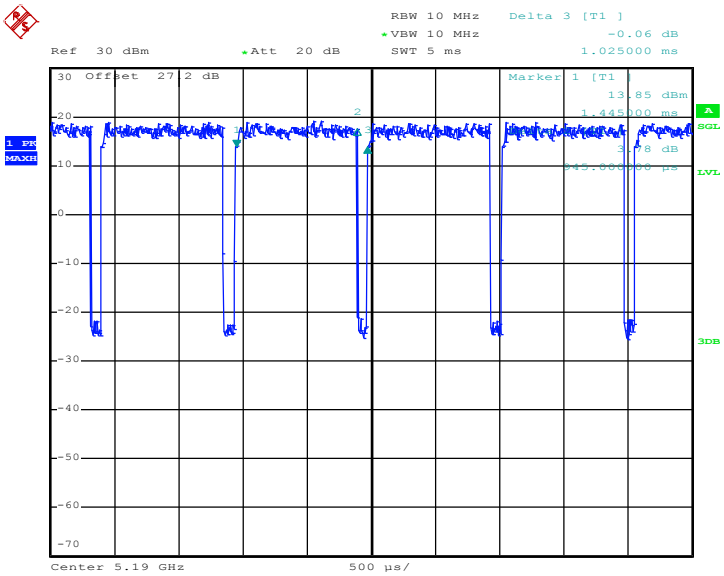
Date: 21.FEB.2019 06:30:18

802.11n HT20



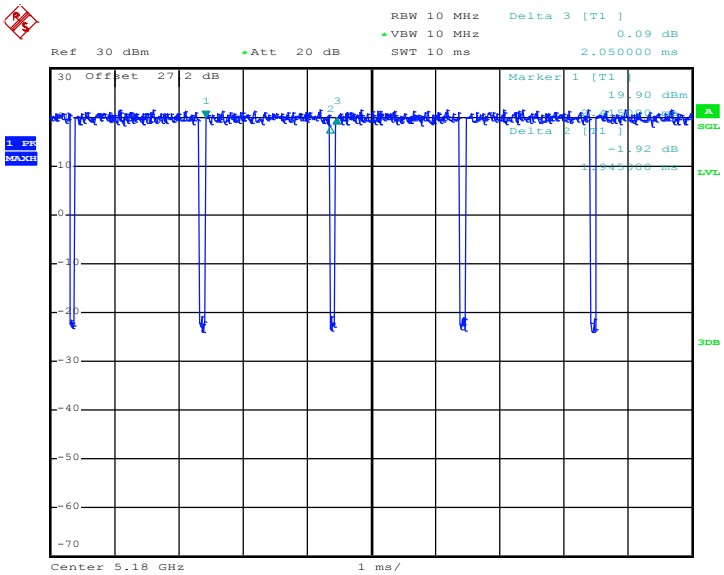
Date: 21.FEB.2019 06:34:50

802.11n HT40



Date: 21.FEB.2019 06:40:51

802.11ac VHT20



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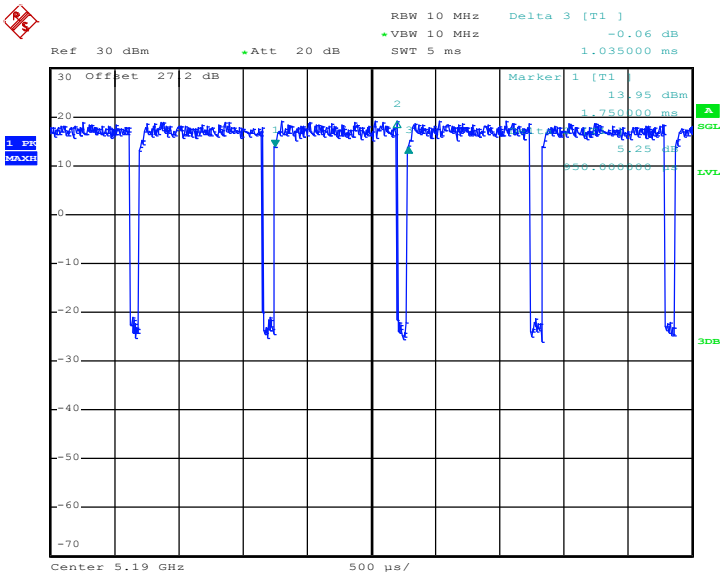
802.11ac VHT40



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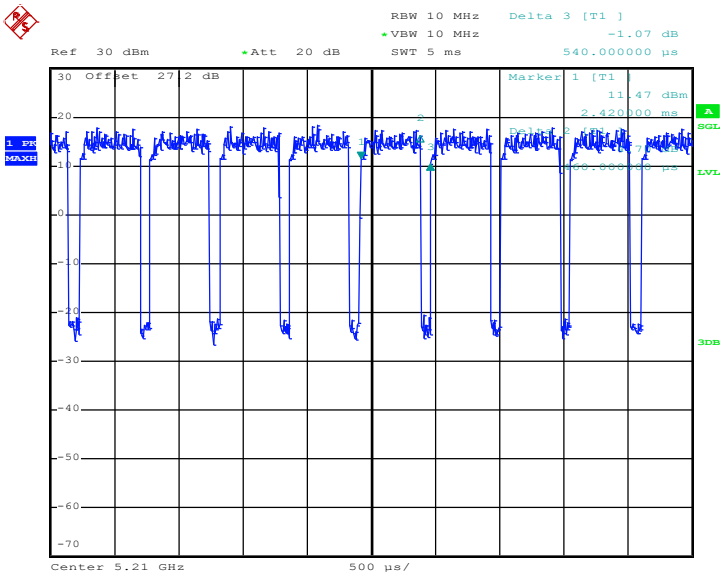
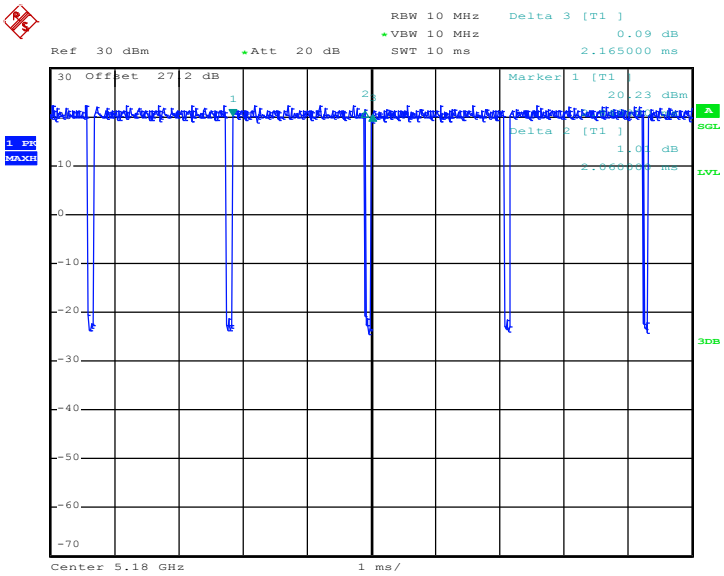
802.11ac VHT80



Date: 21.FEB.2019 06:49:47

<Ant. 2>

802.11a



Date: 21.FEB.2019 06:29:39

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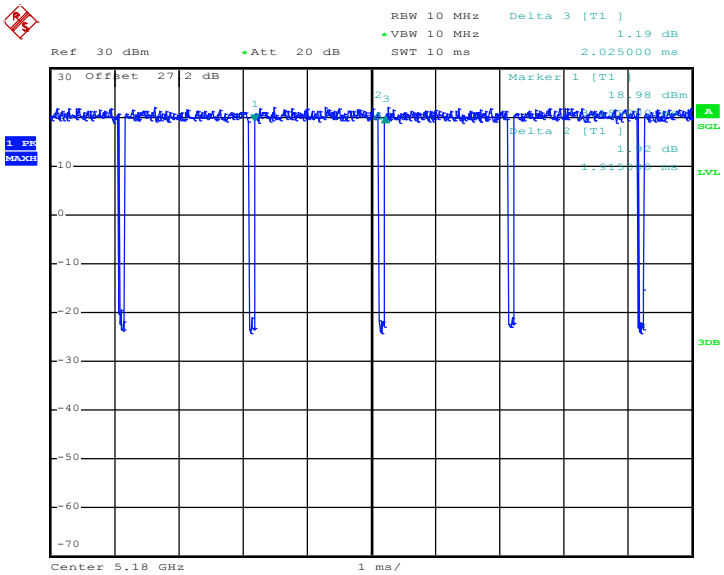

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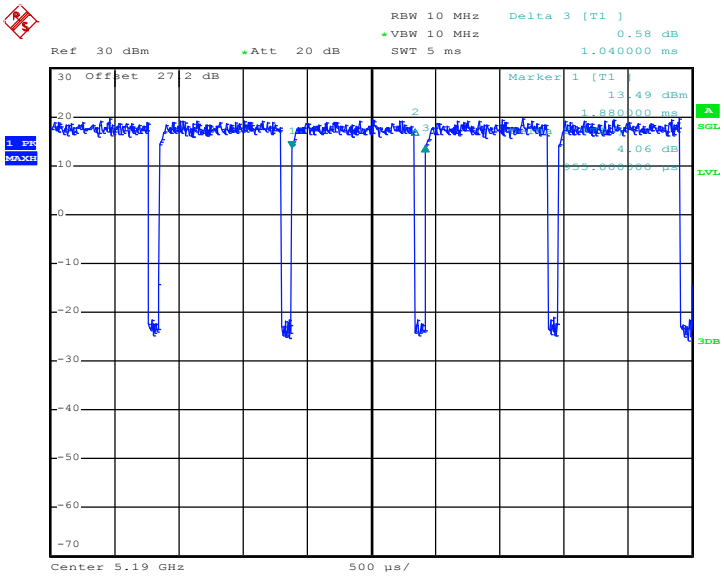

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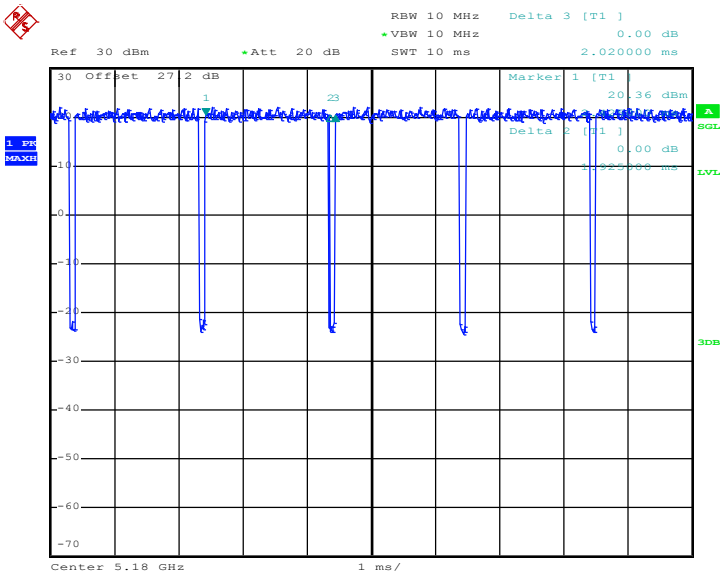

Date: 21.FEB.2019 06:36:16

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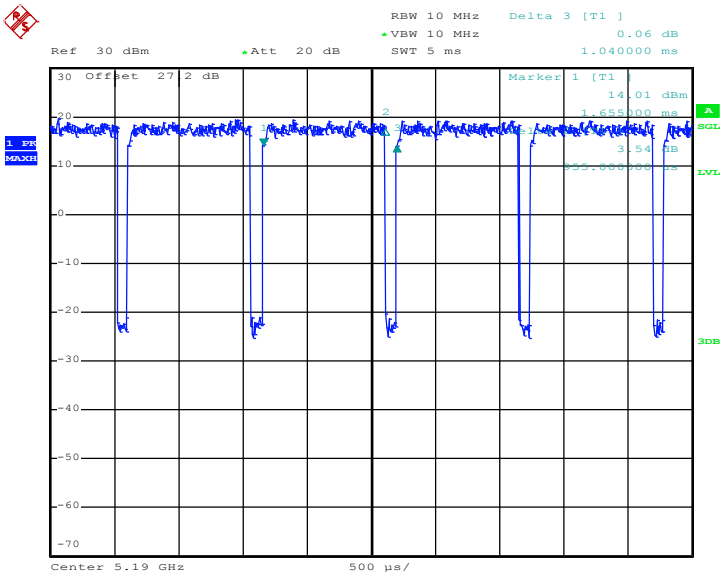

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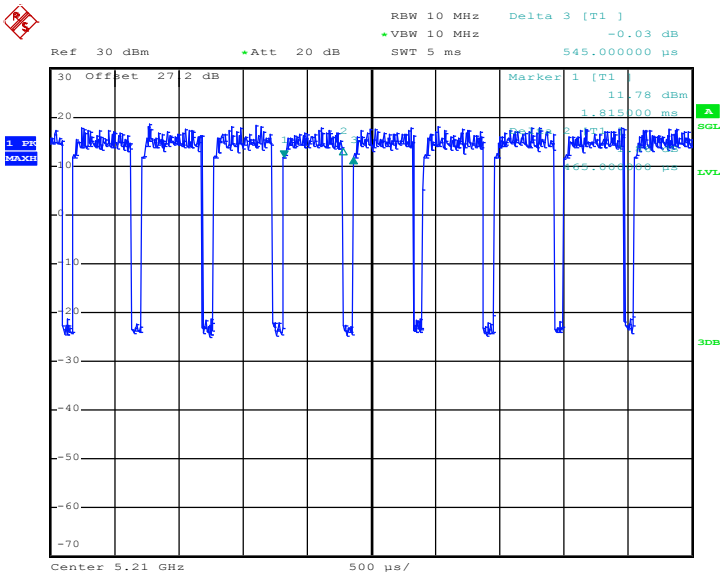

Date: 21.FEB.2019 06:46:54

MIMO <Ant. 1>

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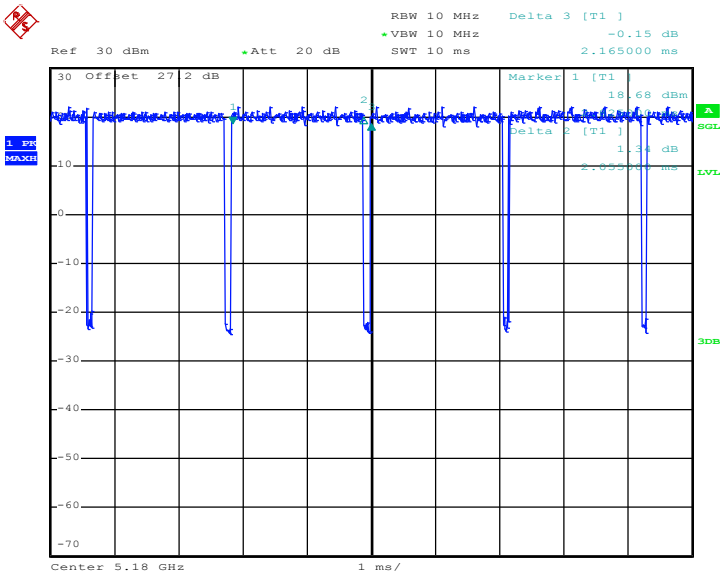

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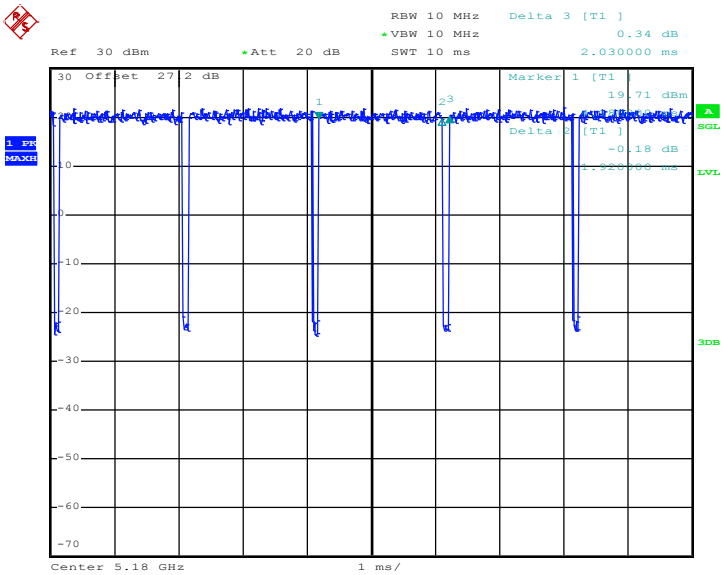

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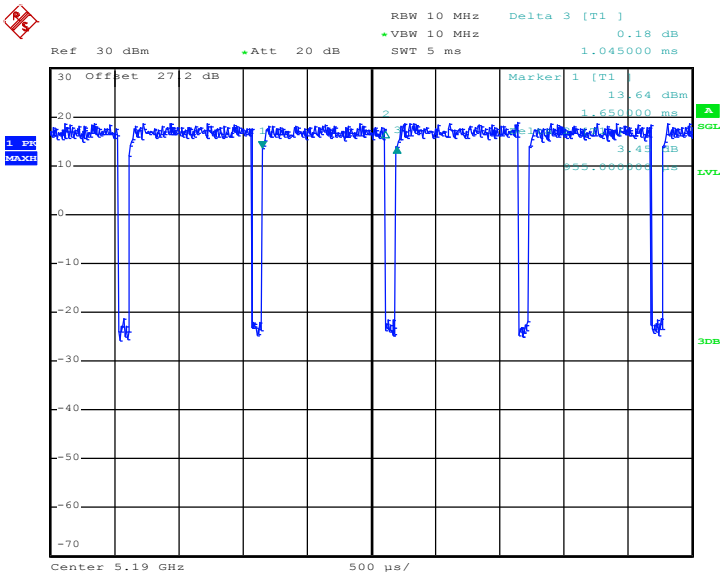

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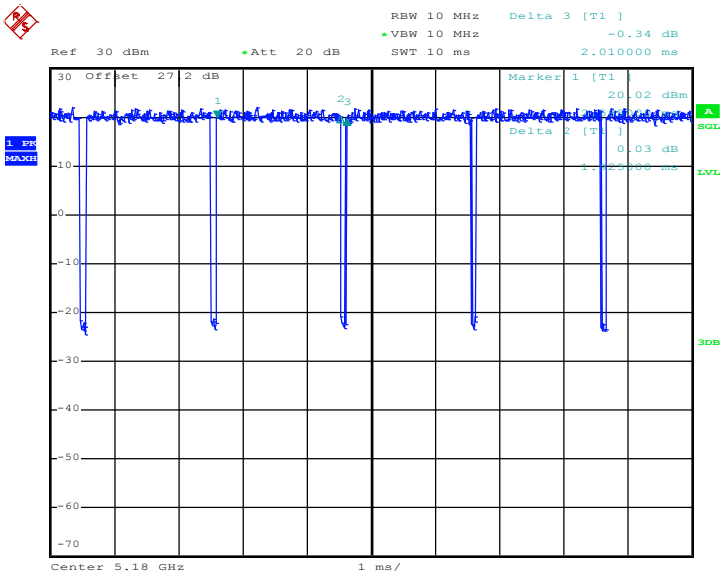

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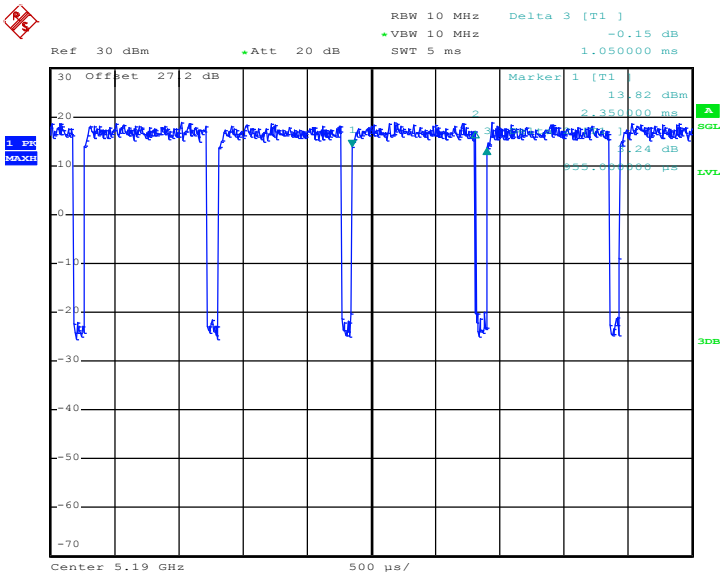

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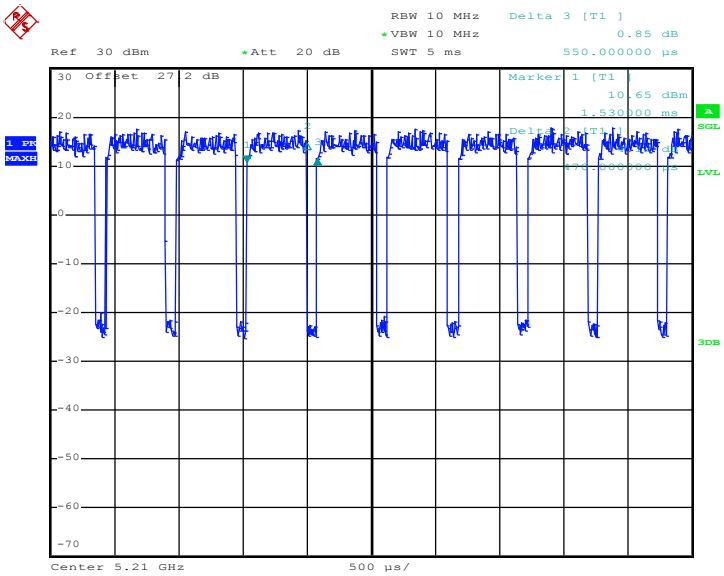

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MIMO <Ant. 2>

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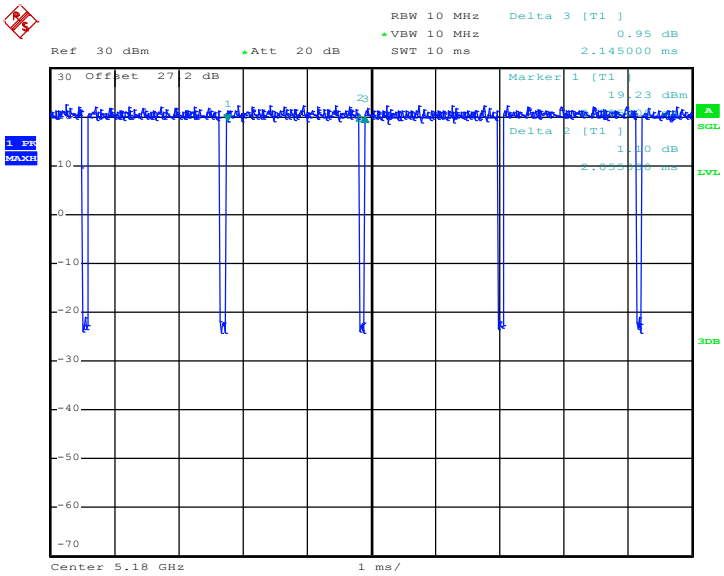

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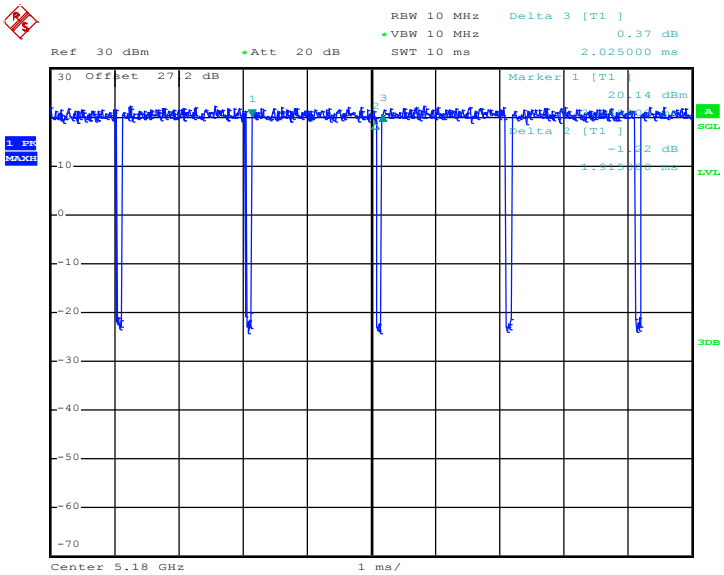

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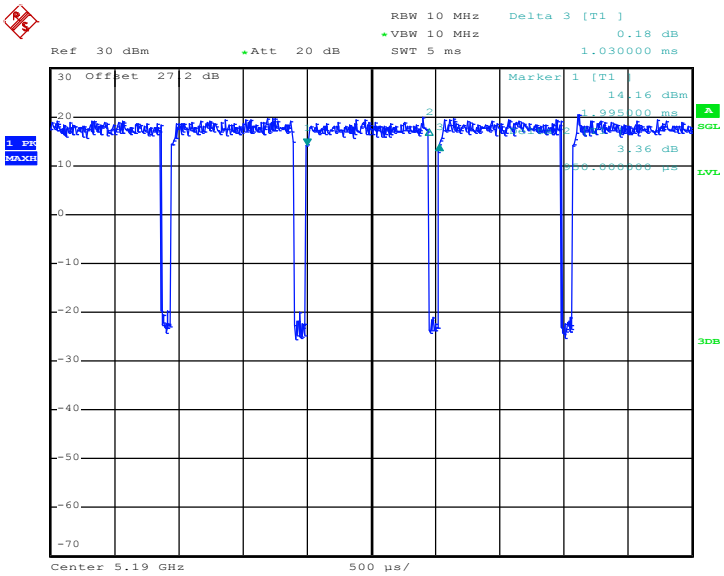

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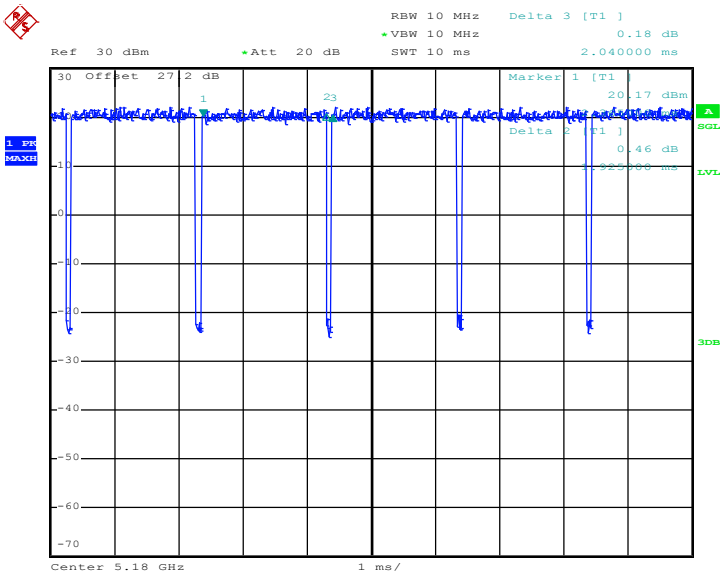

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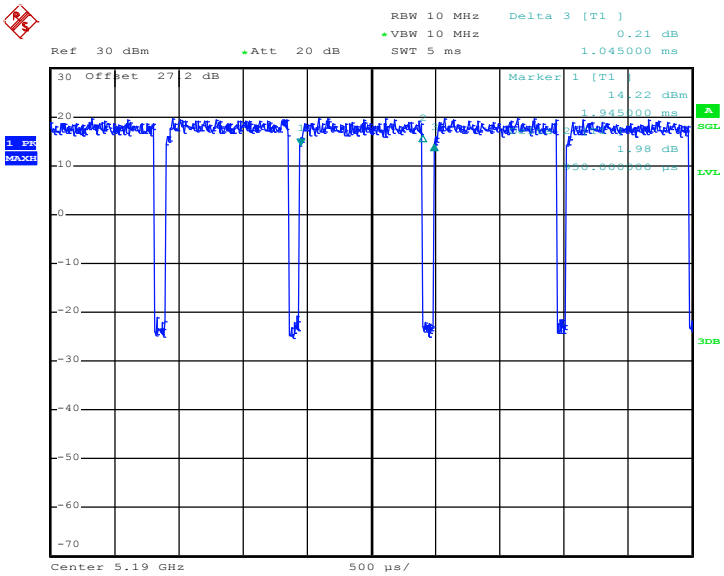

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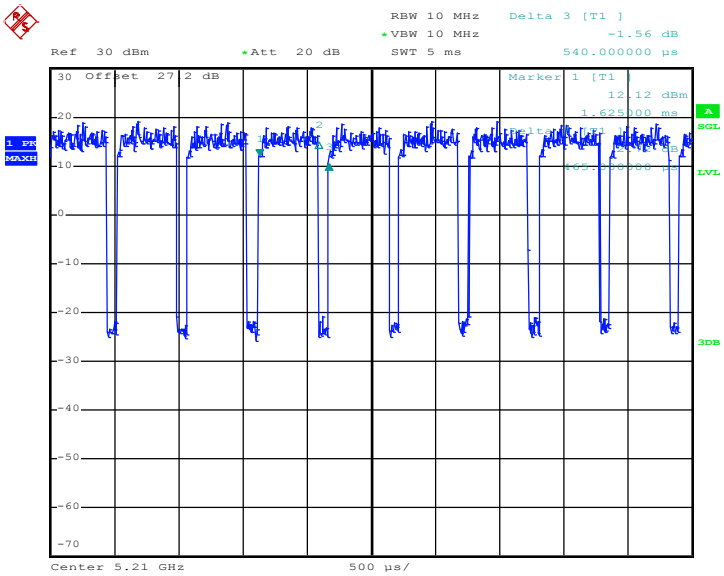

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