



FCC RF Test Report

APPLICANT : Qualcomm Atheros, Inc.
EQUIPMENT : 802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
BRAND NAME : Qualcomm Atheros
MODEL NAME : QCNFA364A
FCC ID : PPD-QCNFA364AH
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was installed into Notebook Computer (Brand Name: Lenovo, Model Name: Lenovo Legion Y920-17IKB Laptop, 80YW) during test.

The product was received on Feb. 18, 2017 and testing was completed on Mar. 06, 2017. We, Sporton International (KunShan) INC., 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 test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (KunShan) INC., the test report shall not be reproduced except in full.

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Sporton International (KunShan) INC.
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR721810D	Rev. 01	Initial issue of report	Apr. 07, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	1
3.1	15.407(a)	Maximum Conducted Output Power	FCC ≤ 24 dBm (depend on band)	Pass	-
-	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	1
3.2	15.407(b)	Unwanted Emissions	15.407(b) 15.209(a)	Pass	Under limit 5.15 dB at 5469.990 MHz
-	15.207	AC Conducted Emission	15.207(a)	Pass	1
-	15.407(g)	Frequency Stability	Within Operation Band	Pass	1
3.3	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.4	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

Remark 1: All conducted test items were leverage from module RF report which can refer to Report No. "RF150107E07B-1".



1 General Description

1.1 Applicant

Qualcomm Atheros, Inc.

1700 Technology Drive, San Jose, CA 95110

1.2 Feature of Equipment Under Test

Product Feature	
Equipment	802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
Brand Name	Qualcomm Atheros
Model Name	QCNFA364A
FCC ID	PPD-QCNFA364AH
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n/ac HT20/HT40/VHT20/VHT40 WLAN 5GHz 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth v3.0+EDR, Bluetooth v4.0 LE, Bluetooth v4.1 LE
EUT Stage	Identical Prototype

Host Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	Lenovo Legion Y920-17IKB Laptop, 80YW
Applicant	Lenovo (Shanghai) Electronics Technology Co., Ltd. NO.68 BUILDING, 199 FENJU RD, China (Shanghai) Pilot Free Trade Zone, Shanghai, 200131 China
Manufacturer	Lenovo PC HK Limited 23/F, Lincoln House, Taikoo Place, 979 King's Road, Quarry Bay Hong Kong

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz		
Antenna Gain / Gain	<5180 MHz ~ 5240 MHz > Chain Port 1: PIFA Antenna with gain -2.53 dBi Chain Port 2: PIFA Antenna with gain -3.66 dBi <5260 MHz ~ 5320 MHz > Chain Port 1: PIFA Antenna with gain -3.06 dBi Chain Port 2: PIFA Antenna with gain -3.78 dBi <5500 MHz ~ 5720 MHz > Chain Port 1: PIFA Antenna with gain -2.03 dBi Chain Port 2: PIFA Antenna with gain -1.86 dBi		
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Function Description		Chain Port 1	Chain Port 2
	802.11 a/n/ac SISO	V	V
	802.11 a/n/ac MIMO	V	V

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



1.4 Modification of EUT

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

1.5 Testing Location

Test Site	Sporton International (KunShan) INC.	
Test Site Location	No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
Test Site No.	Sporton Site No.	FCC Registration No.
	03CH03-KS	306251

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

1.6 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 v01r03
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- ♦ ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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: radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5180-5240 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5260-5320 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5500-5720 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640



Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142 [*]	5710		

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 mode of radiated spurious emissions is considering the modulation as below table.

MIMO Antenna

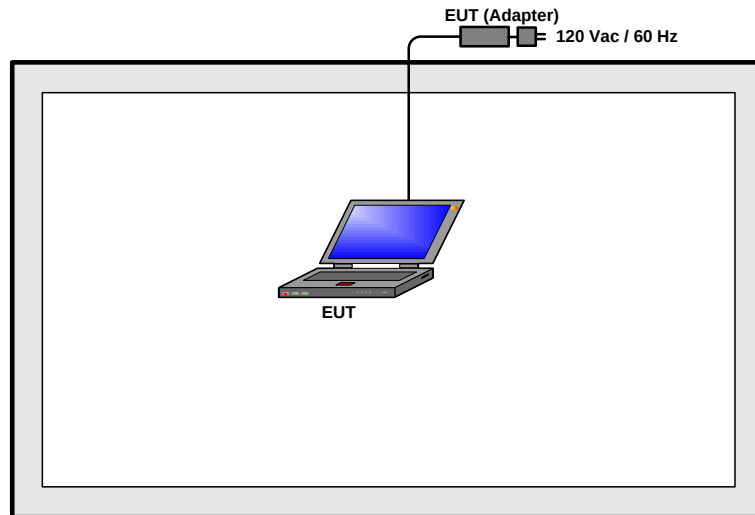
Modulation	
802.11a	
802.11ac VHT20	
802.11ac VHT40	
802.11ac VHT80	

Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5720MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5720MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5180-5240 MHz	Band II : 5260-5320 MHz	Band III : 5500-5720MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.



3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

Method PM (Measurement using an RF average power meter):

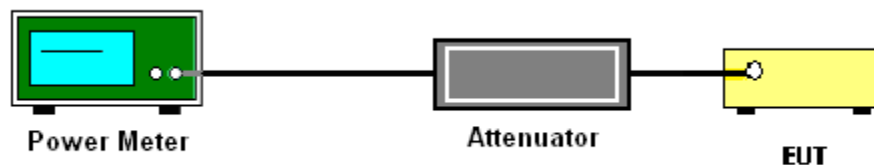
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

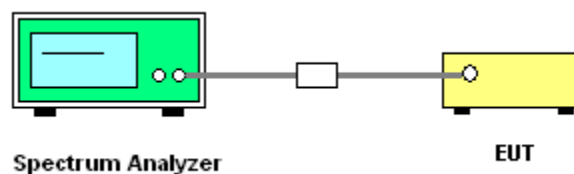
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

3.1.4 Test Setup

For normal channel:



For straddle channel:





3.1.5 Test Result of Conducted Output Power

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant1	Ant2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.24	0.23	11.38	12.42		24.00	24.00	-2.53	-3.66	Pass
11a	6Mbps	1	44	5220	0.24	0.23	11.36	12.44		24.00	24.00	-2.53	-3.66	Pass
11a	6Mbps	1	48	5240	0.24	0.23	11.40	12.66		24.00	24.00	-2.53	-3.66	Pass
HT20	MCS0	1	36	5180	0.22	0.28	11.33	12.24		24.00	24.00	-2.53	-3.66	Pass
HT20	MCS0	1	44	5220	0.22	0.28	10.89	12.15		24.00	24.00	-2.53	-3.66	Pass
HT20	MCS0	1	48	5240	0.22	0.28	11.25	12.45		24.00	24.00	-2.53	-3.66	Pass
HT40	MCS0	1	38	5190	0.47	0.48	11.09	12.13		24.00	24.00	-2.53	-3.66	Pass
HT40	MCS0	1	46	5230	0.47	0.48	11.42	12.30		24.00	24.00	-2.53	-3.66	Pass
VHT20	MCS0	1	36	5180	0.24	0.24	11.42	12.27		24.00	24.00	-2.53	-3.66	Pass
VHT20	MCS0	1	44	5220	0.24	0.24	11.06	12.18		24.00	24.00	-2.53	-3.66	Pass
VHT20	MCS0	1	48	5240	0.24	0.24	11.33	12.49		24.00	24.00	-2.53	-3.66	Pass
VHT40	MCS0	1	38	5190	0.44	0.48	11.30	12.69		24.00	24.00	-2.53	-3.66	Pass
VHT40	MCS0	1	46	5230	0.44	0.48	11.62	12.87		24.00	24.00	-2.53	-3.66	Pass
VHT80	MCS0	1	42	5210	0.91	0.88	11.53	12.21		24.00	24.00	-2.53	-3.66	Pass
11a	6Mbps	2	36	5180	0.22	0.21	11.68	12.94	15.37	24.00		-2.53		Pass
11a	6Mbps	2	44	5220	0.22	0.21	11.43	12.70	15.12	24.00		-2.53		Pass
11a	6Mbps	2	48	5240	0.22	0.21	11.74	12.97	15.41	24.00		-2.53		Pass
HT20	MCS0	2	36	5180	0.22	0.24	11.47	12.70	15.14	24.00		-2.53		Pass
HT20	MCS0	2	44	5220	0.22	0.24	11.17	12.60	14.95	24.00		-2.53		Pass
HT20	MCS0	2	48	5240	0.22	0.24	11.50	12.92	15.28	24.00		-2.53		Pass
HT40	MCS0	2	38	5190	0.47	0.47	11.21	12.73	15.05	24.00		-2.53		Pass
HT40	MCS0	2	46	5230	0.47	0.47	11.46	12.89	15.24	24.00		-2.53		Pass
VHT20	MCS0	2	36	5180	0.24	0.22	11.55	12.77	15.21	24.00		-2.53		Pass
VHT20	MCS0	2	44	5220	0.24	0.22	11.29	12.66	15.04	24.00		-2.53		Pass
VHT20	MCS0	2	48	5240	0.24	0.22	11.54	12.93	15.30	24.00		-2.53		Pass
VHT40	MCS0	2	38	5190	0.44	0.44	11.37	12.75	15.12	24.00		-2.53		Pass
VHT40	MCS0	2	46	5230	0.44	0.44	11.70	12.92	15.36	24.00		-2.53		Pass
VHT80	MCS0	2	42	5210	0.88	0.88	11.90	12.50	15.22	24.00		-2.53		Pass



FCC Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.24	0.23	15.08	16.00		24.00	24.00	-3.06	-3.78	26.99	Pass
11a	6Mbps	1	60	5300	0.24	0.23	16.36	16.06		24.00	24.00	-3.06	-3.78	26.99	Pass
11a	6Mbps	1	64	5320	0.24	0.23	14.06	14.15		24.00	24.00	-3.06	-3.78	26.99	Pass
HT20	MCS0	1	52	5260	0.22	0.28	15.50	16.70		24.00	24.00	-3.06	-3.78	26.99	Pass
HT20	MCS0	1	60	5300	0.22	0.28	16.58	16.48		24.00	24.00	-3.06	-3.78	26.99	Pass
HT20	MCS0	1	64	5320	0.22	0.28	13.83	13.92		24.00	24.00	-3.06	-3.78	26.99	Pass
HT40	MCS0	1	54	5270	0.47	0.48	15.31	15.58		24.00	24.00	-3.06	-3.78	26.99	Pass
HT40	MCS0	1	62	5310	0.47	0.48	13.85	13.52		24.00	24.00	-3.06	-3.78	26.99	Pass
VHT20	MCS0	1	52	5260	0.24	0.24	15.65	16.83		24.00	24.00	-3.06	-3.78	26.99	Pass
VHT20	MCS0	1	60	5300	0.24	0.24	16.76	16.91		24.00	24.00	-3.06	-3.78	26.99	Pass
VHT20	MCS0	1	64	5320	0.24	0.24	13.99	14.00		24.00	24.00	-3.06	-3.78	26.99	Pass
VHT40	MCS0	1	54	5270	0.44	0.48	15.40	15.92		24.00	24.00	-3.06	-3.78	26.99	Pass
VHT40	MCS0	1	62	5310	0.44	0.48	13.98	13.91		24.00	24.00	-3.06	-3.78	26.99	Pass
VHT80	MCS0	1	58	5290	0.91	0.88	11.25	11.24		24.00	24.00	-3.06	-3.78	26.99	Pass
11a	6Mbps	2	52	5260	0.22	0.21	15.43	16.38	18.94	24.00		-3.06		26.99	Pass
11a	6Mbps	2	60	5300	0.22	0.21	16.43	16.26	19.36	24.00		-3.06		26.99	Pass
11a	6Mbps	2	64	5320	0.22	0.21	14.47	14.48	17.49	24.00		-3.06		26.99	Pass
HT20	MCS0	2	52	5260	0.22	0.24	15.74	16.82	19.32	24.00		-3.06		26.99	Pass
HT20	MCS0	2	60	5300	0.22	0.24	16.84	16.79	19.83	24.00		-3.06		26.99	Pass
HT20	MCS0	2	64	5320	0.22	0.24	14.17	14.05	17.12	24.00		-3.06		26.99	Pass
HT40	MCS0	2	54	5270	0.47	0.47	15.38	15.93	18.67	24.00		-3.06		26.99	Pass
HT40	MCS0	2	62	5310	0.47	0.47	14.17	13.90	17.05	24.00		-3.06		26.99	Pass
VHT20	MCS0	2	52	5260	0.24	0.22	15.86	16.88	19.41	24.00		-3.06		26.99	Pass
VHT20	MCS0	2	60	5300	0.24	0.22	16.93	17.01	19.98	24.00		-3.06		26.99	Pass
VHT20	MCS0	2	64	5320	0.24	0.22	14.38	14.17	17.29	24.00		-3.06		26.99	Pass
VHT40	MCS0	2	54	5270	0.44	0.44	15.46	15.99	18.74	24.00		-3.06		26.99	Pass
VHT40	MCS0	2	62	5310	0.44	0.44	14.19	13.96	17.09	24.00		-3.06		26.99	Pass
VHT80	MCS0	2	58	5290	0.88	0.88	11.50	11.47	14.50	24.00		-3.06		26.99	Pass



FCC Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.24	0.23	13.38	13.74		24.00	24.00	-2.03	-1.86	26.99	Pass
11a	6Mbps	1	116	5580	0.24	0.23	15.57	15.72		24.00	24.00	-2.03	-1.86	26.99	Pass
11a	6Mbps	1	140	5700	0.24	0.23	12.99	13.38		24.00	24.00	-2.03	-1.86	26.99	Pass
HT20	MCS0	1	100	5500	0.22	0.28	14.54	14.36		24.00	24.00	-2.03	-1.86	26.99	Pass
HT20	MCS0	1	116	5580	0.22	0.28	13.89	15.50		24.00	24.00	-2.03	-1.86	26.99	Pass
HT20	MCS0	1	140	5700	0.22	0.28	12.75	13.27		24.00	24.00	-2.03	-1.86	26.99	Pass
HT40	MCS0	1	102	5510	0.47	0.48	14.38	14.16		24.00	24.00	-2.03	-1.86	26.99	Pass
HT40	MCS0	1	110	5550	0.47	0.48	16.11	15.89		24.00	24.00	-2.03	-1.86	26.99	Pass
HT40	MCS0	1	134	5670	0.47	0.48	15.89	16.24		24.00	24.00	-2.03	-1.86	26.99	Pass
VHT20	MCS0	1	100	5500	0.24	0.24	14.63	14.71		24.00	24.00	-2.03	-1.86	26.99	Pass
VHT20	MCS0	1	116	5580	0.24	0.24	14.39	15.85		24.00	24.00	-2.03	-1.86	26.99	Pass
VHT20	MCS0	1	140	5700	0.24	0.24	13.35	13.70		24.00	24.00	-2.03	-1.86	26.99	Pass
VHT40	MCS0	1	102	5510	0.44	0.48	14.53	14.59		24.00	24.00	-2.03	-1.86	26.99	Pass
VHT40	MCS0	1	110	5550	0.44	0.48	16.16	16.21		24.00	24.00	-2.03	-1.86	26.99	Pass
VHT40	MCS0	1	134	5670	0.44	0.48	16.00	16.30		24.00	24.00	-2.03	-1.86	26.99	Pass
VHT80	MCS0	1	106	5530	0.91	0.88	11.69	11.57		24.00	24.00	-2.03	-1.86	26.99	Pass
VHT80	MCS0	1	122	5610	0.91	0.88	14.93	15.33		24.00	24.00	-2.03	-1.86	26.99	Pass
11a	6Mbps	2	100	5500	0.22	0.21	13.80	13.90	16.86	24.00		-1.86		26.99	Pass
11a	6Mbps	2	116	5580	0.22	0.21	15.84	16.13	19.00	24.00		-1.86		26.99	Pass
11a	6Mbps	2	140	5700	0.22	0.21	13.29	13.75	16.54	24.00		-1.86		26.99	Pass
HT20	MCS0	2	100	5500	0.22	0.24	14.64	14.72	17.69	24.00		-1.86		26.99	Pass
HT20	MCS0	2	116	5580	0.22	0.24	14.03	15.56	17.87	24.00		-1.86		26.99	Pass
HT20	MCS0	2	140	5700	0.22	0.24	13.24	13.66	16.47	24.00		-1.86		26.99	Pass
HT40	MCS0	2	102	5510	0.47	0.47	14.52	14.65	17.60	24.00		-1.86		26.99	Pass
HT40	MCS0	2	110	5550	0.47	0.47	16.19	16.30	19.26	24.00		-1.86		26.99	Pass
HT40	MCS0	2	134	5670	0.47	0.47	16.12	16.43	19.29	24.00		-1.86		26.99	Pass
VHT20	MCS0	2	100	5500	0.24	0.22	14.70	14.77	17.75	24.00		-1.86		26.99	Pass
VHT20	MCS0	2	116	5580	0.24	0.22	14.70	15.91	18.36	24.00		-1.86		26.99	Pass



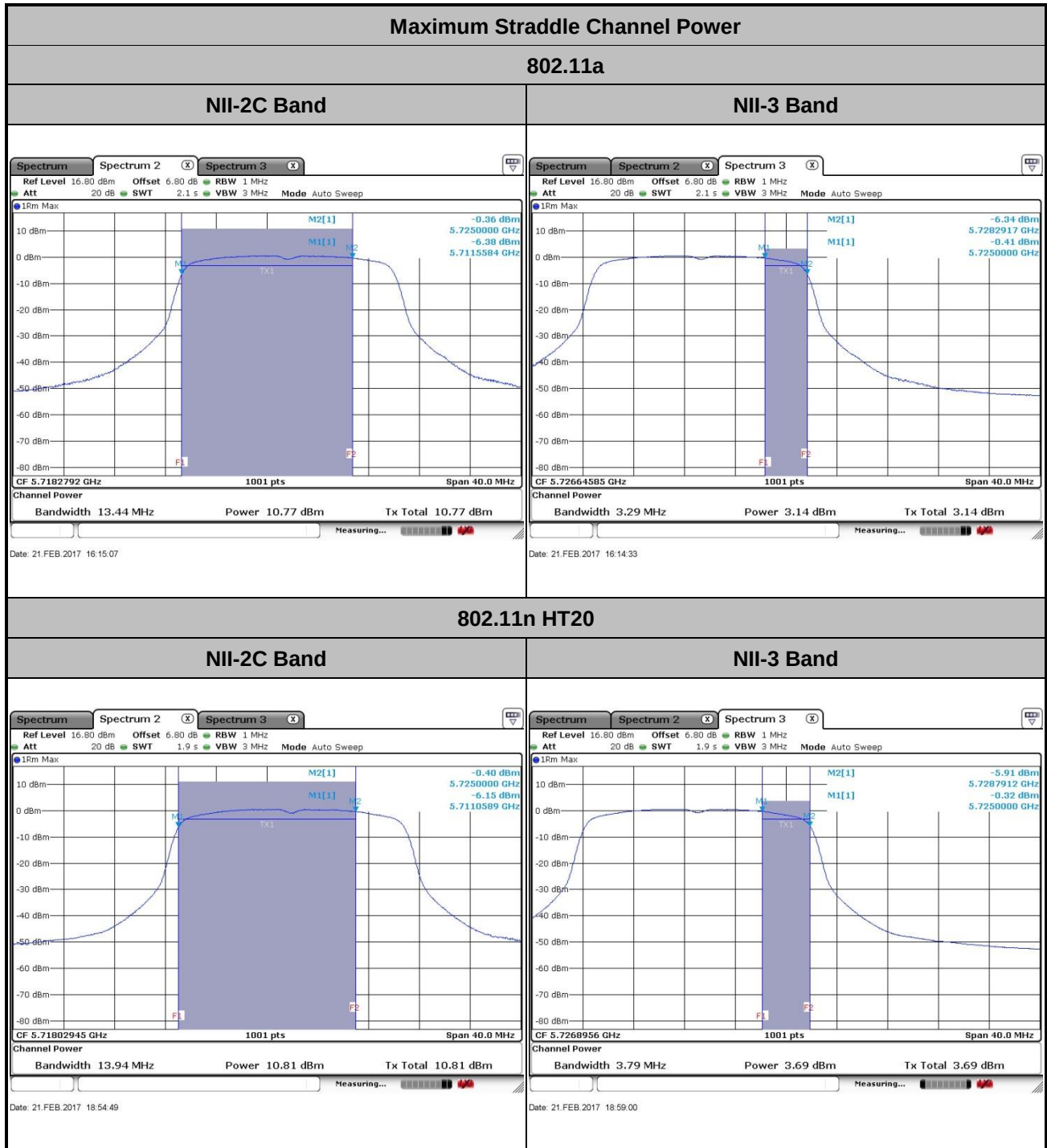
VHT20	MCS0	2	140	5700	0.24	0.22	13.73	13.74	16.74	24.00	-1.86	26.99	Pass
VHT40	MCS0	2	102	5510	0.44	0.44	14.62	14.68	17.66	24.00	-1.86	26.99	Pass
VHT40	MCS0	2	110	5550	0.44	0.44	16.22	16.42	19.33	24.00	-1.86	26.99	Pass
VHT40	MCS0	2	134	5670	0.44	0.44	16.17	16.46	19.33	24.00	-1.86	26.99	Pass
VHT80	MCS0	2	106	5530	0.88	0.88	12.01	11.93	14.98	24.00	-1.86	26.99	Pass
VHT80	MCS0	2	122	5610	0.88	0.88	15.14	15.55	18.36	24.00	-1.86	26.99	Pass

FCC Straddle Channel

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant1	Ant2	Ant 1	Ant 2	SUM	Ant1	Ant2	Ant1	Ant2	
11a	6Mbps	2	144	5720	0.22	0.21	11.46	13.17	15.41	-	-1.86	-	-	-
				NII-2C	0.22	0.21	10.77	12.48	14.72	24	-1.86	-	-	-
				NII-3	0.22	0.21	3.14	4.83	7.08	-	-1.86	-	-	Pass
HT20	MCS0	2	144	5720	0.22	0.24	11.58	13.08	15.41	-	-1.86	-	-	-
				NII-2C	0.22	0.24	10.81	12.33	14.65	24	-1.86	-	-	-
				NII-3	0.22	0.24	3.69	5.11	7.47	-	-1.86	-	-	Pass
HT40	MCS0	2	142	5710	0.47	0.47	8.67	12.90	14.29	-	-1.86	-	-	-
				NII-2C	0.47	0.47	8.41	12.68	14.06	24	-1.86	-	-	-
				NII-3	0.47	0.47	-3.65	-0.15	1.45	-	-1.86	-	-	Pass
VHT20	MCS0	2	144	5720	0.24	0.22	11.66	13.06	15.42	-	-1.86	-	-	-
				NII-2C	0.24	0.22	10.87	12.29	14.65	24	-1.86	-	-	-
				NII-3	0.24	0.22	3.86	5.15	7.56	-	-1.86	-	-	Pass
VHT40	MCS0	2	142	5710	0.44	0.44	11.93	12.95	15.48	-	-1.86	-	-	-
				NII-2C	0.44	0.44	11.72	12.73	15.26	24	-1.86	-	-	-
				NII-3	0.44	0.44	-1.25	-0.06	2.40	-	-1.86	-	-	Pass
VHT80	MCS0	2	138	5690	0.88	0.88	9.66	10.68	13.21	-	-1.86	-	-	-
				NII-2C	0.88	0.88	9.59	10.61	13.14	24	-1.86	-	-	-
				NII-3	0.88	0.88	-8.54	-7.23	-4.83	-	-1.86	-	-	Pass



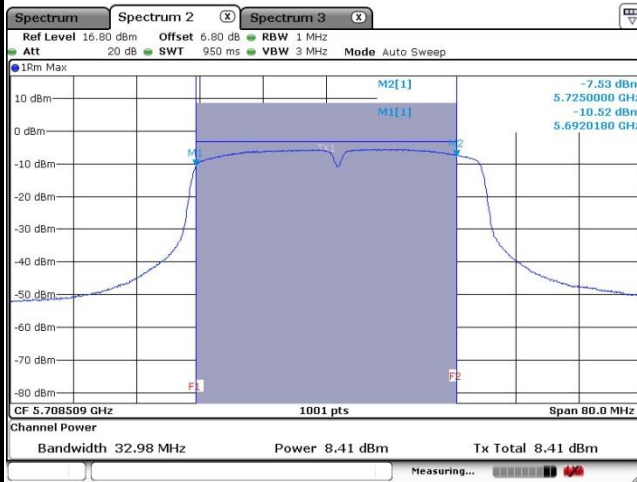
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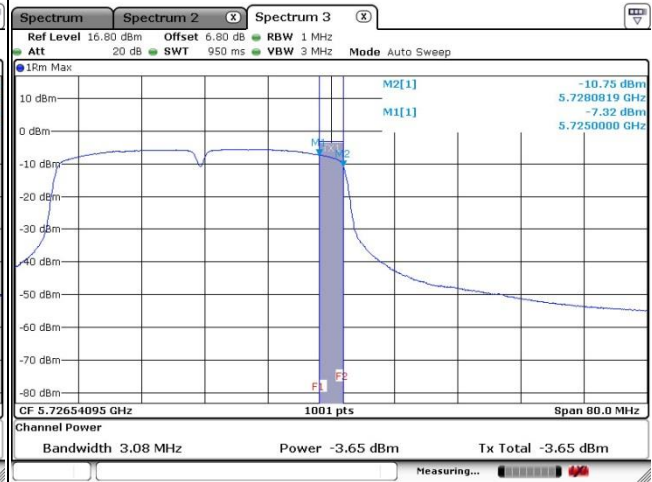


802.11n HT40

NII-2C Band

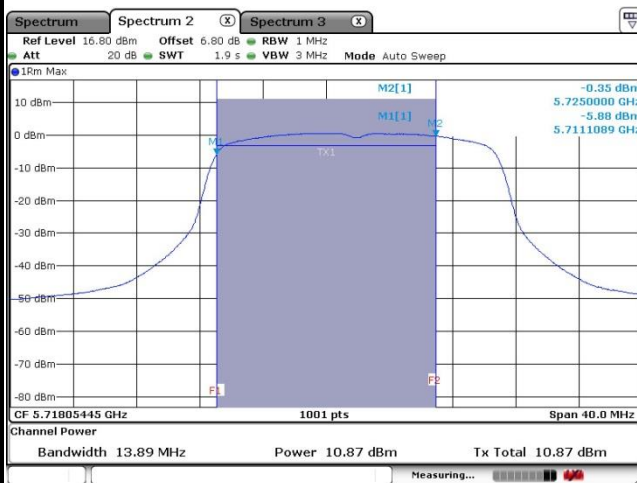


NII-3 Band

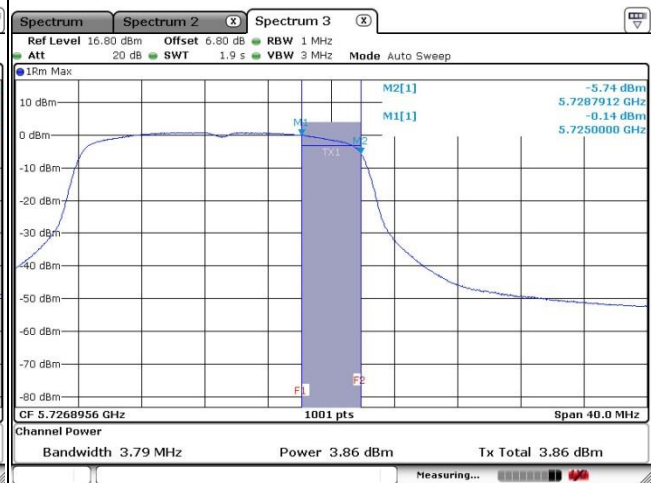


802.11ac VHT20

NII-2C Band



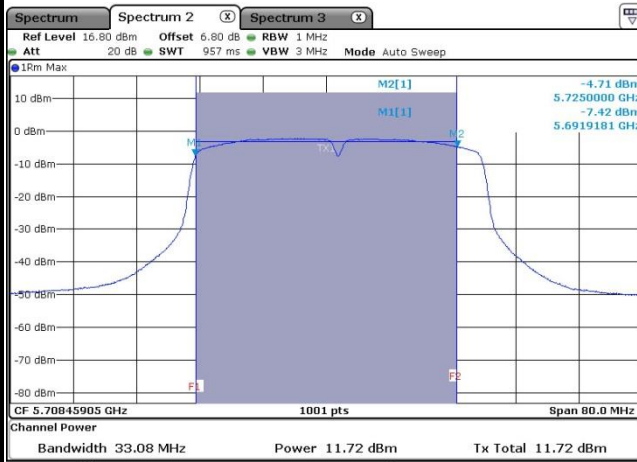
NII-3 Band



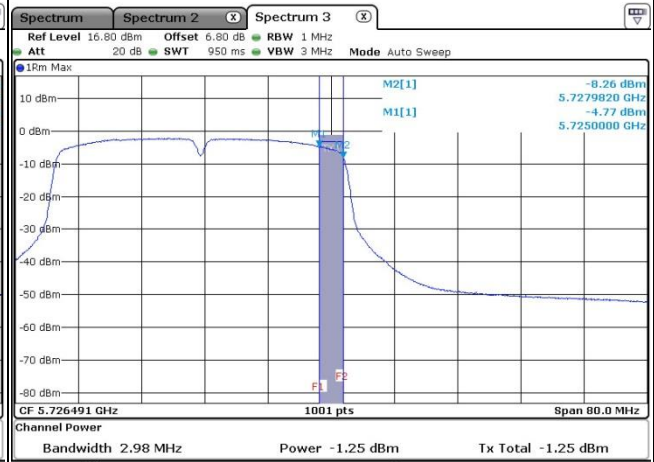


802.11ac VHT40

NII-2C Band

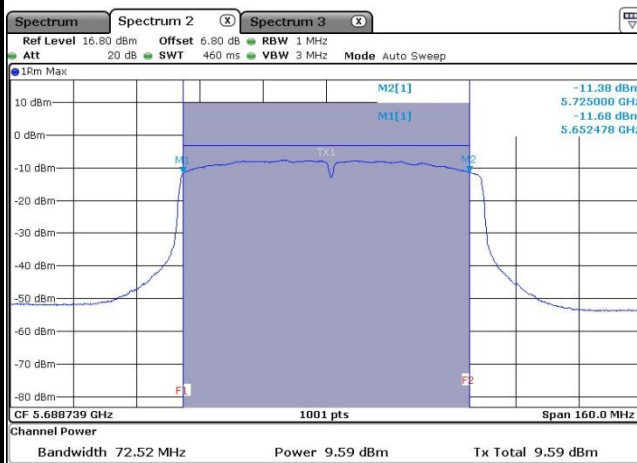


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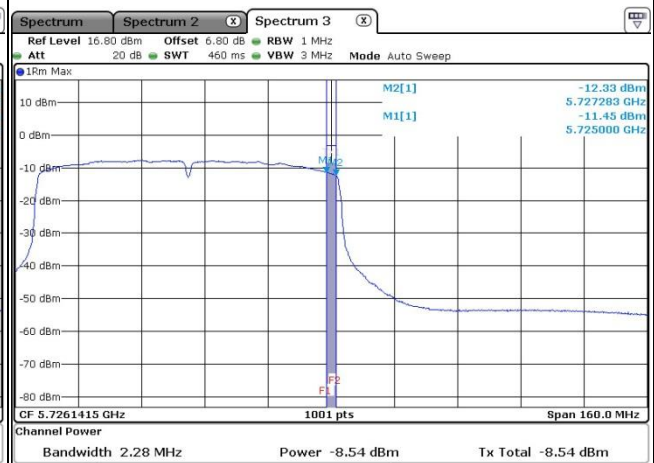


802.11ac VHT80

NII-2C Band

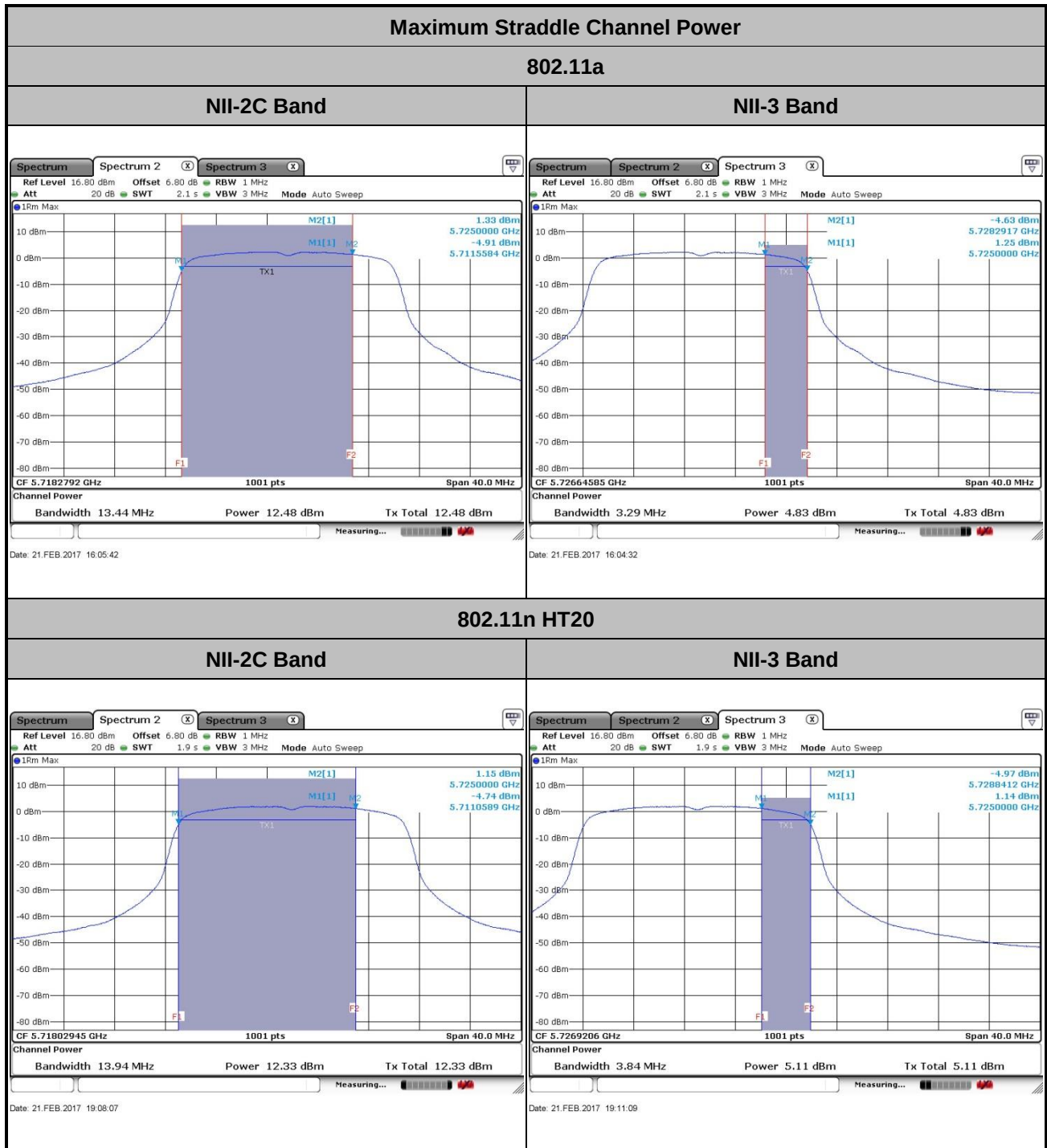


NII-3 Band





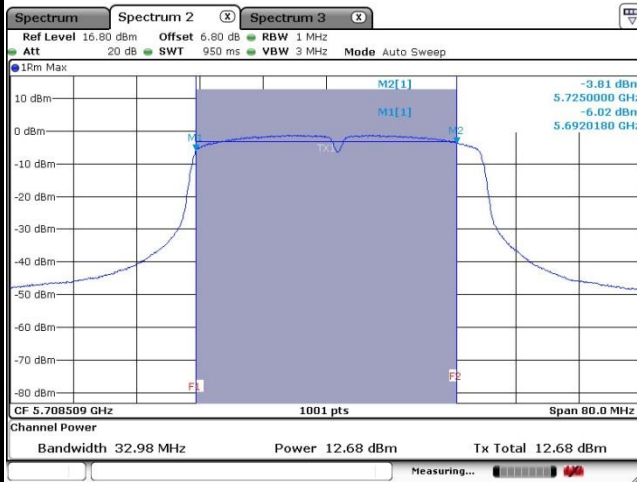
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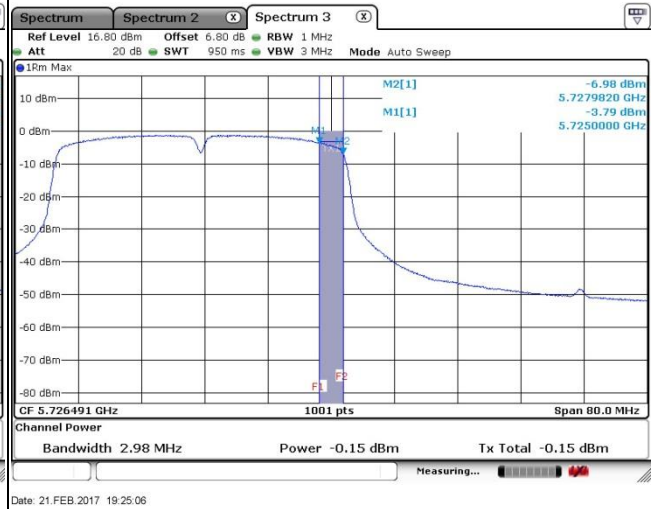


802.11n HT40

NII-2C Band

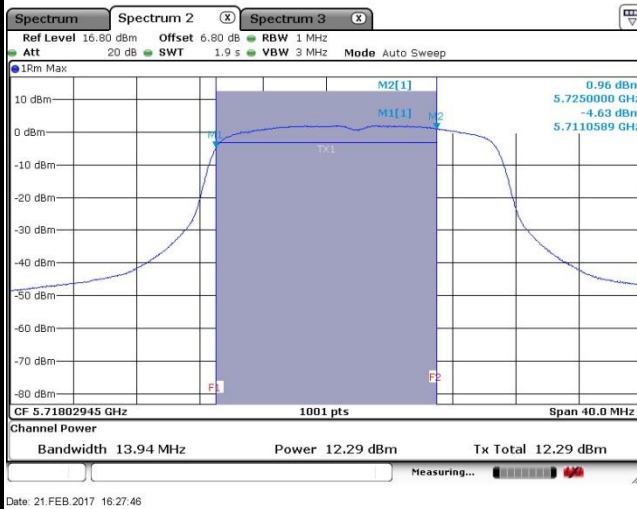


NII-3 Band

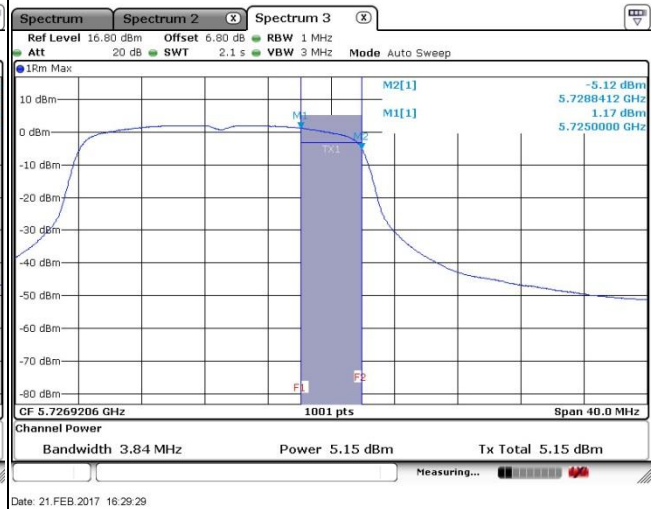


802.11ac VHT20

NII-2C Band



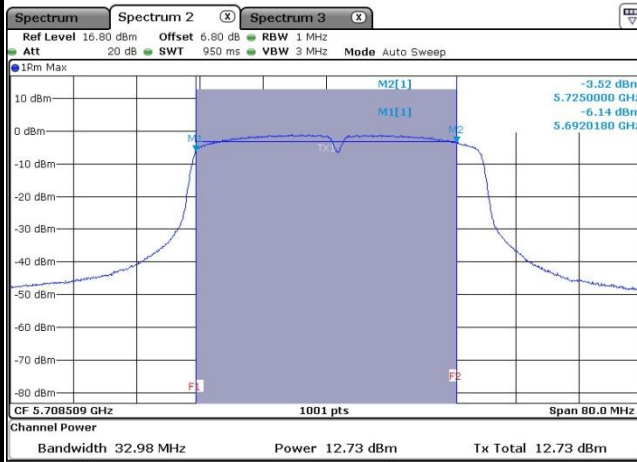
NII-3 Band



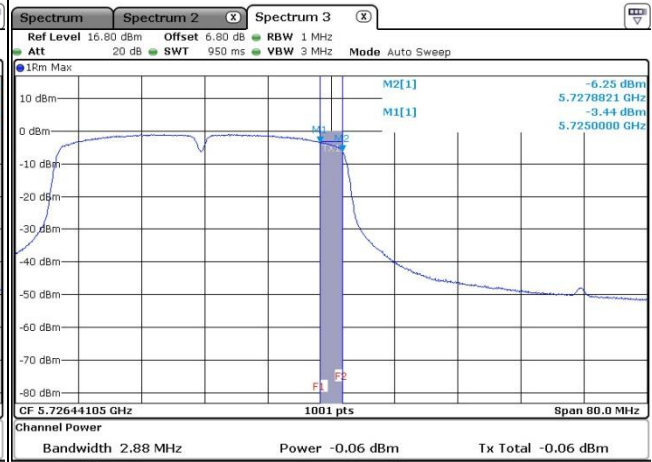


802.11ac VHT40

NII-2C Band

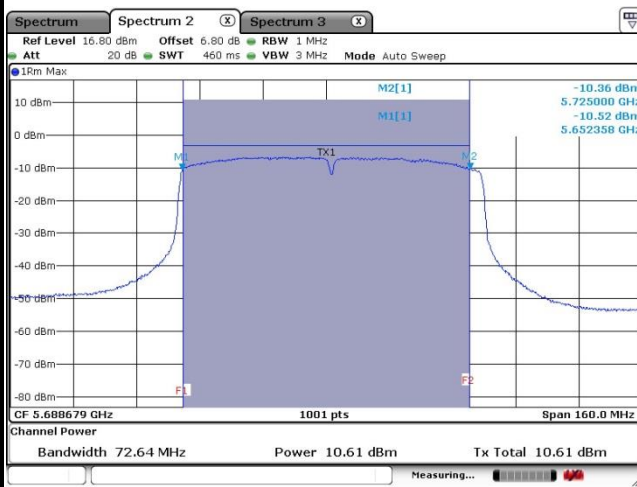


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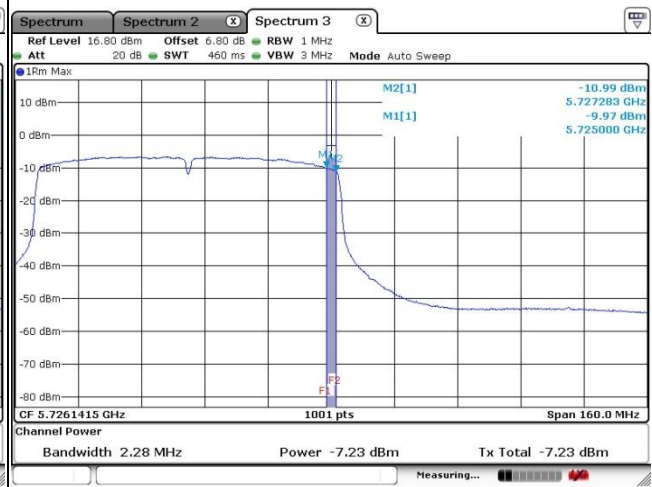


802.11ac VHT80

NII-2C Band



NII-3 Band





3.2 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

3.2.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz .

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz . Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz .

For transmitters operating in the 5725-5825 MHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz ($78.3\text{dB}\mu\text{V/m}$); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz ($68.3\text{dB}\mu\text{V/m}$).

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

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.

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
- 27	68.3

- (3) KDB789033 D02 v01r03 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

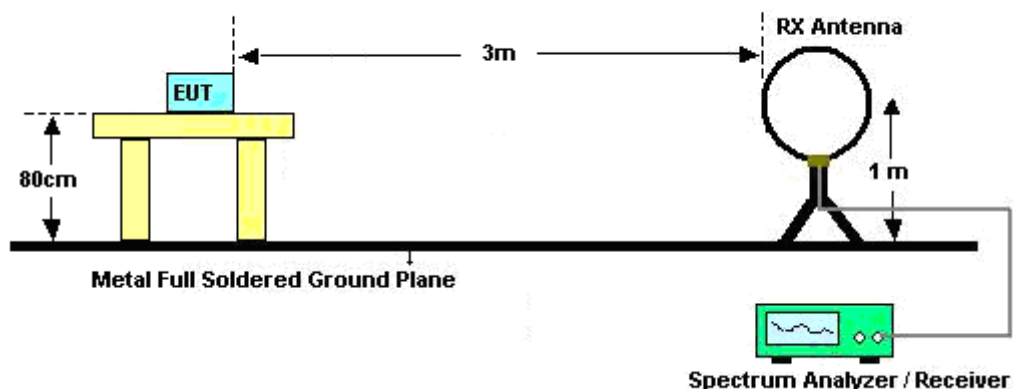
3.2.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. 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.
 - $VBW \geq 1/T$, 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.

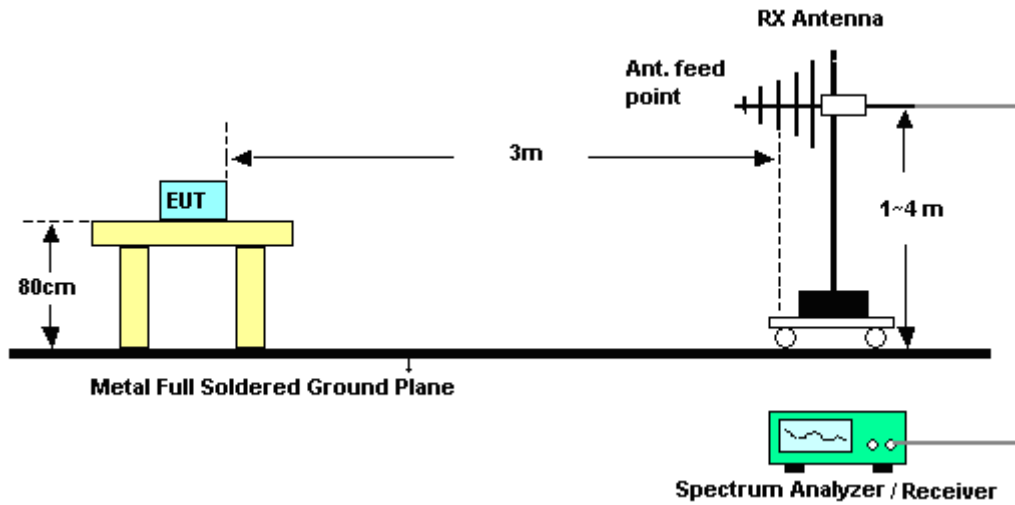
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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.

3.2.4 Test Setup

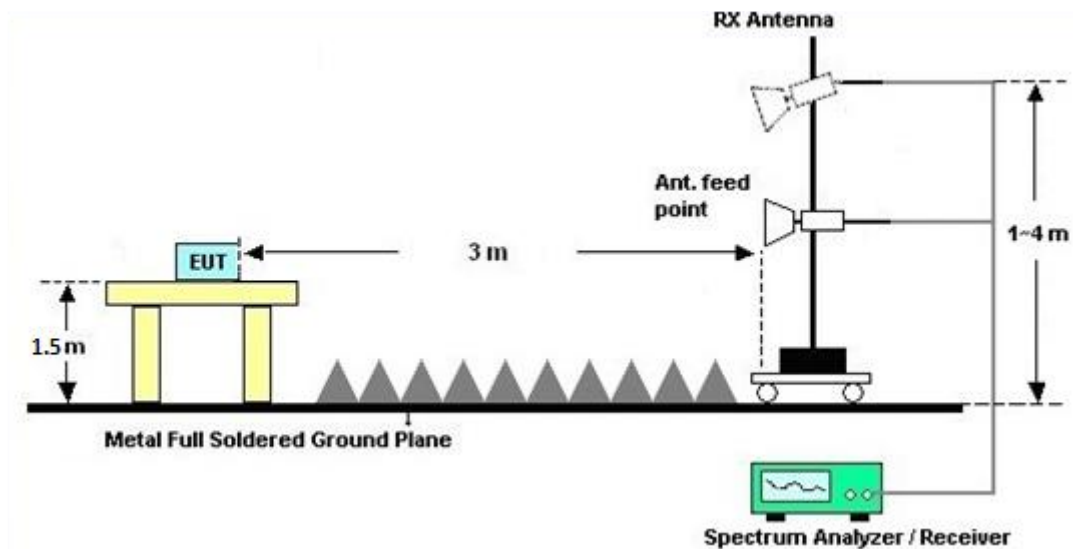
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.2.5 Test Results of Radiated Spurious 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 per 15.31(o) was not reported.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A and B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix A and B.



3.3 Automatically Discontinue Transmission

3.3.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.4 Antenna Requirements

3.4.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,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

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

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

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} 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.

	Ant 1	Ant 2	for	for	Limit	Limit
	(dBi)	(dBi)	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	-2.53	-3.66	-2.53	-0.07	0.00	0.00
Band II	-3.06	-3.78	-3.06	-0.40	0.00	0.00
Band III	-2.03	-1.86	-1.86	1.07	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 19, 2017	Feb. 21, 2017~ Mar. 02, 2017	Jan. 19, 2018	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 19, 2017	Feb. 21, 2017~ Mar. 02, 2017	Jan. 19, 2018	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 09, 2016	Mar. 06, 2017	Aug. 08, 2017	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 22, 2016	Mar. 06, 2017	Apr. 21, 2017	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 23, 2016	Mar. 06, 2017	Nov. 22, 2017	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 16, 2016	Mar. 06, 2017	Apr. 15, 2017	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 16, 2016	Mar. 06, 2017	Apr. 15, 2017	Radiation (03CH03-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 15, 2017	Mar. 06, 2017	Feb. 14, 2018	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	187289	9kHz~1GHz	Aug. 09, 2016	Mar. 06, 2017	Aug. 08, 2017	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35-H G	1887435	18GHz~40GHz	Oct. 13, 2016	Mar. 06, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 13, 2016	Mar. 06, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 06, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 06, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 06, 2017	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7dB
--	-------



Appendix A. Radiated Spurious Emission

Band 1 - 5150~5250MHz

WIFI 802.11a (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5149.28	48.53	-25.47	74	45.3	31.84	7.92	36.53	311	86	P	H
		5149.92	39.9	-14.1	54	36.67	31.84	7.92	36.53	311	86	A	H
	*	5178	99.61	-	-	96.33	31.85	7.94	36.51	311	86	P	H
	*	5178	93.23	-	-	89.95	31.85	7.94	36.51	311	86	A	H
		5146.56	49.87	-24.13	74	46.64	31.84	7.92	36.53	324	294	P	V
		5149.92	41.27	-12.73	54	38.04	31.84	7.92	36.53	324	294	A	V
	*	5180	102.65	-	-	99.37	31.85	7.94	36.51	324	294	P	V
	*	5180	95.57	-	-	92.29	31.85	7.94	36.51	324	294	A	V
802.11a CH 44 5220MHz		5111.68	47.27	-26.73	74	44.08	31.83	7.91	36.55	388	86	P	H
		5122.4	37.48	-16.52	54	34.29	31.83	7.91	36.55	388	86	A	H
	*	5222	100.82	-	-	97.47	31.86	7.99	36.5	388	86	P	H
	*	5222	94.14	-	-	90.79	31.86	7.99	36.5	388	86	A	H
		5379.84	45.41	-28.59	74	41.56	31.92	8.43	36.5	388	86	P	H
		5387.4	36.61	-17.39	54	32.76	31.92	8.43	36.5	388	86	A	H
		5141.92	47.4	-26.6	74	44.17	31.84	7.92	36.53	370	291	P	V
		5149.6	37.8	-16.2	54	34.57	31.84	7.92	36.53	370	291	A	V
	*	5220	102.89	-	-	99.54	31.86	7.99	36.5	370	291	P	V
	*	5220	96.33	-	-	92.98	31.86	7.99	36.5	370	291	A	V
		5380.56	45.76	-28.24	74	41.91	31.92	8.43	36.5	370	291	P	V
		5363.82	36.84	-17.16	54	33.04	31.91	8.39	36.5	370	291	A	V



802.11a CH 48 5240MHz	*	5240	101.95	-	-	98.54	31.87	8.04	36.5	389	73	P	H
	*	5240	94.93	-	-	91.52	31.87	8.04	36.5	389	73	A	H
		5363.64	46.05	-27.95	74	42.25	31.91	8.39	36.5	389	73	P	H
		5399.64	36.72	-17.28	54	32.82	31.92	8.48	36.5	389	73	A	H
	*	5242	104.38	-	-	100.92	31.88	8.08	36.5	388	162	P	V
	*	5242	96.93	-	-	93.47	31.88	8.08	36.5	388	162	A	V
		5386.14	46.88	-27.12	74	43.03	31.92	8.43	36.5	388	162	P	V
		5398.2	37.08	-16.92	54	33.18	31.92	8.48	36.5	388	162	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	41.9	-32.1	74	49.29	38.02	11.84	57.25	100	360	P	H
		10360	42.05	-31.95	74	49.44	38.02	11.84	57.25	100	360	P	V
802.11a CH 44 5220MHz		10440	42.47	-31.53	74	49.64	38.06	11.89	57.12	100	0	P	H
		10440	42.56	-31.44	74	49.73	38.06	11.89	57.12	100	360	P	V
802.11a CH 48 5240MHz		10480	42.79	-31.21	74	49.8	38.09	11.92	57.02	100	360	P	H
		10480	42.48	-31.52	74	49.49	38.09	11.92	57.02	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 36 5180MHz		5147.2	48.53	-25.47	74	45.3	31.84	7.92	36.53	302	83	P	H
		5149.92	39.84	-14.16	54	36.61	31.84	7.92	36.53	302	83	A	H
	*	5182	99.15	-	-	95.87	31.85	7.94	36.51	302	83	P	H
	*	5182	92.77	-	-	89.49	31.85	7.94	36.51	302	83	A	H
		5149.92	49.91	-24.09	74	46.68	31.84	7.92	36.53	356	291	P	V
		5150	41.36	-12.64	54	38.13	31.84	7.92	36.53	356	291	A	V
	*	5178	102.83	-	-	99.55	31.85	7.94	36.51	356	291	P	V
	*	5178	95.11	-	-	91.83	31.85	7.94	36.51	356	291	A	V
802.11ac VHT20 CH 44 5220MHz		5148.64	47.24	-26.76	74	44.01	31.84	7.92	36.53	334	72	P	H
		5149.76	37.41	-16.59	54	34.18	31.84	7.92	36.53	334	72	A	H
	*	5224	100.96	-	-	97.61	31.86	7.99	36.5	334	72	P	H
	*	5224	94.29	-	-	90.94	31.86	7.99	36.5	334	72	A	H
		5386.68	47.72	-26.28	74	43.87	31.92	8.43	36.5	334	72	P	H
		5398.92	36.89	-17.11	54	32.99	31.92	8.48	36.5	334	72	A	H
		5141.28	46.13	-27.87	74	42.9	31.84	7.92	36.53	363	74	P	V
		5149.12	37.73	-16.27	54	34.5	31.84	7.92	36.53	363	74	A	V
	*	5216	104.45	-	-	101.1	31.86	7.99	36.5	363	74	P	V
	*	5216	97.45	-	-	94.1	31.86	7.99	36.5	363	74	A	V
		5394.24	46.69	-27.31	74	42.84	31.92	8.43	36.5	363	74	P	V
		5394.6	37.5	-16.5	54	33.6	31.92	8.48	36.5	363	74	A	V



802.11ac VHT20 CH 48 5240MHz	*	5238	100.97	-	-	97.56	31.87	8.04	36.5	334	75	P	H
	*	5238	93.88	-	-	90.47	31.87	8.04	36.5	334	75	A	H
		5369.76	46.01	-27.99	74	42.21	31.91	8.39	36.5	334	75	P	H
		5386.32	36.82	-17.18	54	32.97	31.92	8.43	36.5	334	75	A	H
	*	5242	103.79	-	-	100.33	31.88	8.08	36.5	364	72	P	V
	*	5242	96.55	-	-	93.09	31.88	8.08	36.5	364	72	A	V
		5380.74	47.24	-26.76	74	43.39	31.92	8.43	36.5	364	72	P	V
		5383.8	37.49	-16.51	54	33.64	31.92	8.43	36.5	364	72	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20		10360	42.77	-31.23	74	50.16	38.02	11.84	57.25	200	0	P	H
CH 36 5180MHz		10360	42.42	-31.58	74	49.81	38.02	11.84	57.25	200	360	P	V
802.11ac VHT20		10440	42.89	-31.11	74	50.06	38.06	11.89	57.12	200	360	P	H
CH 44 5220MHz		10440	42.28	-31.72	74	49.45	38.06	11.89	57.12	200	0	P	V
802.11ac VHT20		10480	42.78	-31.22	74	49.79	38.09	11.92	57.02	200	0	P	H
CH 48 5240MHz		10480	43.18	-30.82	74	50.19	38.09	11.92	57.02	200	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 38 5190MHz		5149.6	61.95	-12.05	74	58.72	31.84	7.92	36.53	305	115	P	H
		5144	48.08	-5.92	54	44.85	31.84	7.92	36.53	305	115	A	H
	*	5194	104.99	-	-	101.68	31.86	7.95	36.5	305	115	P	H
	*	5194	98.8	-	-	95.49	31.86	7.95	36.5	305	115	A	H
		5393.7	50.12	-23.88	74	46.27	31.92	8.43	36.5	305	115	P	H
		5355.18	38.21	-15.79	54	34.46	31.91	8.34	36.5	305	115	A	H
		5146.56	58.83	-15.17	74	55.6	31.84	7.92	36.53	395	197	P	V
		5144.96	46.73	-7.27	54	43.5	31.84	7.92	36.53	395	197	A	V
	*	5194	103.47	-	-	100.16	31.86	7.95	36.5	395	197	P	V
	*	5194	97.77	-	-	94.46	31.86	7.95	36.5	395	197	A	V
		5360.4	48.55	-25.45	74	44.8	31.91	8.34	36.5	395	197	P	V
		5384.34	37.41	-16.59	54	33.56	31.92	8.43	36.5	395	197	A	V
802.11ac VHT40 CH 46 5230MHz		5149.12	51.64	-22.36	74	48.41	31.84	7.92	36.53	307	87	P	H
		5149.28	39.54	-14.46	54	36.31	31.84	7.92	36.53	307	87	A	H
	*	5222	98.29	-	-	94.94	31.86	7.99	36.5	307	87	P	H
	*	5222	91.47	-	-	88.12	31.86	7.99	36.5	307	87	A	H
		5350.5	49.14	-24.86	74	45.39	31.91	8.34	36.5	307	87	P	H
		5383.8	37.29	-16.71	54	33.44	31.92	8.43	36.5	307	87	A	H
		5141.44	50.59	-23.41	74	47.36	31.84	7.92	36.53	299	267	P	V
		5140.96	38.76	-15.24	54	35.53	31.84	7.92	36.53	299	267	A	V
	*	5232	99.54	-	-	96.13	31.87	8.04	36.5	299	267	P	V
	*	5232	93.13	-	-	89.72	31.87	8.04	36.5	299	267	A	V
		5380.56	47.97	-26.03	74	44.12	31.92	8.43	36.5	299	267	P	V
		5380.56	37.32	-16.68	54	33.47	31.92	8.43	36.5	299	267	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40		10380	42.35	-31.65	74	49.69	38.03	11.85	57.22	200	360	P	H
CH 38 5190MHz		10380	43.16	-30.84	74	50.5	38.03	11.85	57.22	200	0	P	V
802.11ac VHT40		10460	43.12	-30.88	74	50.23	38.07	11.9	57.08	100	360	P	H
CH 46 5230MHz		10460	42.9	-31.1	74	50.01	38.07	11.9	57.08	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5125.6	56.94	-17.06	74	53.73	31.84	7.91	36.54	305	83	P	H
		5149.28	48.65	-5.35	54	45.42	31.84	7.92	36.53	305	83	A	H
	*	5190	98.94	-	-	95.66	31.85	7.94	36.51	305	83	P	H
	*	5190	91.74	-	-	88.46	31.85	7.94	36.51	305	83	A	H
		5353.2	47.96	-26.04	74	44.21	31.91	8.34	36.5	305	83	P	H
		5351.04	41.69	-12.31	54	37.94	31.91	8.34	36.5	305	83	A	H
		5146.24	54.67	-19.33	74	51.44	31.84	7.92	36.53	334	294	P	V
		5145.12	47.01	-6.99	54	43.78	31.84	7.92	36.53	334	294	A	V
	*	5190	98.79	-	-	95.51	31.85	7.94	36.51	334	294	P	V
	*	5190	91.38	-	-	88.1	31.85	7.94	36.51	334	294	A	V
		5353.56	48.83	-25.17	74	45.08	31.91	8.34	36.5	334	294	P	V
		5350.32	41.55	-12.45	54	37.8	31.91	8.34	36.5	334	294	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 1 5150~5250MHz****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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80		10420	42.29	-31.71	74	49.51	38.05	11.88	57.15	100	360	P	H
CH 42 5210MHz		10420	42.39	-31.61	74	49.61	38.05	11.88	57.15	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11a (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5147.2	46.53	-27.47	74	43.3	31.84	7.92	36.53	323	98	P	H
		5148.64	37.81	-16.19	54	34.58	31.84	7.92	36.53	323	98	A	H
	*	5258	108.94	-	-	105.48	31.88	8.08	36.5	323	98	P	H
	*	5258	101.74	-	-	98.28	31.88	8.08	36.5	323	98	A	H
		5118.24	46.89	-27.11	74	43.7	31.83	7.91	36.55	282	168	P	V
		5106.56	37.07	-16.93	54	33.88	31.83	7.91	36.55	282	168	A	V
	*	5258	105.92	-	-	102.46	31.88	8.08	36.5	282	168	P	V
	*	5258	98.83	-	-	95.37	31.88	8.08	36.5	282	168	A	V
802.11a CH 60 5300MHz		5129.12	47.2	-26.8	74	43.99	31.84	7.91	36.54	333	96	P	H
		5108	37.53	-16.47	54	34.34	31.83	7.91	36.55	333	96	A	H
	*	5304	108.81	-	-	105.21	31.89	8.21	36.5	333	96	P	H
	*	5304	103.26	-	-	99.66	31.89	8.21	36.5	333	96	A	H
		5364.18	46.05	-27.95	74	42.25	31.91	8.39	36.5	333	96	P	H
		5350.01	39.01	-14.99	54	35.26	31.91	8.34	36.5	333	96	A	H
		5143.04	45.7	-28.3	74	42.47	31.84	7.92	36.53	294	168	P	V
		5112.8	36.76	-17.24	54	33.57	31.83	7.91	36.55	294	168	A	V
	*	5304	108.15	-	-	104.55	31.89	8.21	36.5	294	168	P	V
	*	5304	100.8	-	-	97.2	31.89	8.21	36.5	294	168	A	V
		5369.94	45.68	-28.32	74	41.88	31.91	8.39	36.5	294	168	P	V
		5350.01	37.63	-16.37	54	33.88	31.91	8.34	36.5	294	168	A	V



802.11a CH 64 5320MHz	*	5320	105.79	-	-	102.13	31.9	8.26	36.5	317	95	P	H
	*	5320	99.44	-	-	95.78	31.9	8.26	36.5	317	95	A	H
		5350.86	50.79	-23.21	74	47.04	31.91	8.34	36.5	317	95	P	H
		5350.01	43.61	-10.39	54	39.86	31.91	8.34	36.5	317	95	A	H
	*	5318	103.78	-	-	100.12	31.9	8.26	36.5	297	166	P	V
	*	5318	96.47	-	-	92.81	31.9	8.26	36.5	297	166	A	V
		5352.48	47.69	-26.31	74	43.94	31.91	8.34	36.5	297	166	P	V
		5350.5	40.27	-13.73	54	36.52	31.91	8.34	36.5	297	166	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	42.27	-31.73	74	49.17	38.11	11.94	56.95	100	360	P	H
		10520	43.49	-30.51	74	50.39	38.11	11.94	56.95	100	360	P	V
802.11a CH 60 5300MHz		10600	42.96	-31.04	74	49.58	38.16	12	56.78	100	360	P	H
		10600	43	-31	74	49.62	38.16	12	56.78	200	0	P	V
802.11a CH 64 5320MHz		10640	42.35	-31.65	74	48.86	38.18	12.02	56.71	200	360	P	H
		10640	42.59	-31.41	74	49.1	38.18	12.02	56.71	200	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 52 5260MHz		5118.4	47.04	-26.96	74	43.85	31.83	7.91	36.55	318	92	P	H
		5140	37.38	-16.62	54	34.15	31.84	7.92	36.53	318	92	A	H
	*	5262	107.04	-	-	103.54	31.88	8.12	36.5	318	92	P	H
	*	5262	99.91	-	-	96.41	31.88	8.12	36.5	318	92	A	H
		5123.68	46.72	-27.28	74	43.51	31.84	7.91	36.54	325	155	P	V
		5138.56	37.23	-16.77	54	34.02	31.84	7.91	36.54	325	155	A	V
	*	5262	108.66	-	-	105.16	31.88	8.12	36.5	325	155	P	V
	*	5262	101.31	-	-	97.81	31.88	8.12	36.5	325	155	A	V
802.11ac VHT20 CH 60 5300MHz		5132.64	46.7	-27.3	74	43.49	31.84	7.91	36.54	396	92	P	H
		5141.12	37.35	-16.65	54	34.12	31.84	7.92	36.53	396	92	A	H
	*	5298	106.82	-	-	103.22	31.89	8.21	36.5	396	92	P	H
	*	5298	100.74	-	-	97.14	31.89	8.21	36.5	396	92	A	H
		5363.2	46.18	-27.82	74	42.38	31.91	8.39	36.5	396	92	P	H
		5350.4	38.13	-15.87	54	34.38	31.91	8.34	36.5	396	92	A	H
		5137.28	46.38	-27.62	74	43.17	31.84	7.91	36.54	298	166	P	V
		5144.32	36.76	-17.24	54	33.53	31.84	7.92	36.53	298	166	A	V
	*	5302	106.29	-	-	102.69	31.89	8.21	36.5	298	166	P	V
	*	5302	98.67	-	-	95.07	31.89	8.21	36.5	298	166	A	V
		5366.7	46.13	-27.87	74	42.33	31.91	8.39	36.5	298	166	P	V
		5350.5	37.9	-16.1	54	34.15	31.91	8.34	36.5	298	166	A	V



802.11ac VHT20 CH 64 5320MHz	*	5322	103.61	-	-	99.95	31.9	8.26	36.5	297	102	P	H
	*	5322	96.54	-	-	92.88	31.9	8.26	36.5	297	102	A	H
		5351.6	49	-25	74	45.25	31.91	8.34	36.5	297	102	P	H
		5350.7	41.3	-12.7	54	37.55	31.91	8.34	36.5	297	102	A	H
	*	5318	105.11	-	-	101.45	31.9	8.26	36.5	319	154	P	V
	*	5318	97.95	-	-	94.29	31.9	8.26	36.5	319	154	A	V
		5353.6	49.19	-24.81	74	45.44	31.91	8.34	36.5	319	154	P	V
		5350.1	40.91	-13.09	54	37.16	31.91	8.34	36.5	319	154	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20		10520	43.18	-30.82	74	50.08	38.11	11.94	56.95	200	0	P	H
CH 52 5260MHz		10520	43.22	-30.78	74	50.12	38.11	11.94	56.95	200	0	P	V
802.11ac VHT20		10600	43.44	-30.56	74	50.06	38.16	12	56.78	200	0	P	H
CH 60 5300MHz		10600	43.42	-30.58	74	50.04	38.16	12	56.78	200	0	P	V
802.11ac VHT20		10640	43.77	-30.23	74	50.28	38.18	12.02	56.71	200	360	P	H
CH 64 5320MHz		10640	42.95	-31.05	74	49.46	38.18	12.02	56.71	200	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 54 5270MHz		5147.84	53.91	-20.09	74	50.68	31.84	7.92	36.53	309	117	P	H
		5135.52	39.71	-14.29	54	36.5	31.84	7.91	36.54	309	117	A	H
	*	5276	107.11	-	-	103.55	31.89	8.17	36.5	309	117	P	H
	*	5276	100.03	-	-	96.47	31.89	8.17	36.5	309	117	A	H
		5365.4	56.3	-17.7	74	52.5	31.91	8.39	36.5	309	117	P	H
		5360.3	41.91	-12.09	54	38.16	31.91	8.34	36.5	309	117	A	H
		5143.36	52.05	-21.95	74	48.82	31.84	7.92	36.53	316	326	P	V
		5147.2	37.85	-16.15	54	34.62	31.84	7.92	36.53	316	326	A	V
	*	5278	105.02	-	-	101.46	31.89	8.17	36.5	316	326	P	V
	*	5278	97.97	-	-	94.41	31.89	8.17	36.5	316	326	A	V
		5369.7	55.06	-18.94	74	51.26	31.91	8.39	36.5	316	326	P	V
		5376.2	41.36	-12.64	54	37.56	31.91	8.39	36.5	316	326	A	V
802.11ac VHT40 CH 62 5310MHz		5116.8	46.82	-27.18	74	43.63	31.83	7.91	36.55	312	130	P	H
		5143.68	38.73	-15.27	54	35.5	31.84	7.92	36.53	312	130	A	H
	*	5316	103.65	-	-	99.99	31.9	8.26	36.5	312	130	P	H
	*	5316	96.67	-	-	93.01	31.9	8.26	36.5	312	130	A	H
		5361.6	63.55	-10.45	74	59.75	31.91	8.39	36.5	312	130	P	H
		5357.6	47.53	-6.47	54	43.78	31.91	8.34	36.5	312	130	A	H
		5120.32	46	-28	74	42.81	31.83	7.91	36.55	306	327	P	V
		5136.96	37.55	-16.45	54	34.34	31.84	7.91	36.54	306	327	A	V
	*	5302	102.92	-	-	99.32	31.89	8.21	36.5	306	327	P	V
	*	5302	95.74	-	-	92.14	31.89	8.21	36.5	306	327	A	V
		5372.8	57.32	-16.68	74	53.52	31.91	8.39	36.5	306	327	P	V
		5350.01	46.74	-7.26	54	42.99	31.91	8.34	36.5	306	327	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40		10540	42.04	-31.96	74	48.89	38.12	11.95	56.92	100	360	P	H
CH 54 5270MHz		10540	42.86	-31.14	74	49.71	38.12	11.95	56.92	100	0	P	V
802.11ac VHT40		10620	42.41	-31.59	74	48.98	38.17	12.01	56.75	100	360	P	H
CH 62 5310MHz		10620	42.49	-31.51	74	49.06	38.17	12.01	56.75	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5147.2	51.64	-22.36	74	48.41	31.84	7.92	36.53	318	82	P	H
		5146.24	43.18	-10.82	54	39.95	31.84	7.92	36.53	318	82	A	H
	*	5272	98.06	-	-	94.56	31.88	8.12	36.5	318	82	P	H
	*	5272	90.97	-	-	87.47	31.88	8.12	36.5	318	82	A	H
		5386.6	54.47	-19.53	74	50.62	31.92	8.43	36.5	318	82	P	H
		5364.5	46.37	-7.63	54	42.57	31.91	8.39	36.5	318	82	A	H
		5145.92	50.16	-23.84	74	46.93	31.84	7.92	36.53	339	294	P	V
		5145.92	41.87	-12.13	54	38.64	31.84	7.92	36.53	339	294	A	V
	*	5278	98.25	-	-	94.69	31.89	8.17	36.5	339	294	P	V
	*	5278	91.37	-	-	87.81	31.89	8.17	36.5	339	294	A	V
		5381.5	54.22	-19.78	74	50.37	31.92	8.43	36.5	339	294	P	V
		5386.1	46.28	-7.72	54	42.43	31.92	8.43	36.5	339	294	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 2 5250~5350MHz****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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80		10580	41.75	-32.25	74	48.42	38.15	11.99	56.81	100	360	P	H
CH 58 5290MHz		10580	42.39	-31.61	74	49.06	38.15	11.99	56.81	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5466	49.83	-24.17	74	45.93	31.95	8.35	36.4	292	69	P	H
		5469.68	42.75	-11.25	54	38.85	31.95	8.35	36.4	292	69	A	H
	*	5502	102.25	-	-	98.35	31.96	8.29	36.35	292	69	P	H
	*	5502	96.58	-	-	92.68	31.96	8.29	36.35	292	69	A	H
		5469.2	50.66	-23.34	74	46.76	31.95	8.35	36.4	308	163	P	V
		5469.52	42.91	-11.09	54	39.01	31.95	8.35	36.4	308	163	A	V
	*	5500	106.26	-	-	102.36	31.96	8.29	36.35	308	163	P	V
	*	5500	99	-	-	95.1	31.96	8.29	36.35	308	163	A	V
802.11a CH 120 5600MHz		5430.8	46.29	-27.71	74	42.39	31.94	8.41	36.45	346	259	P	H
		5456.08	37.12	-16.88	54	33.22	31.94	8.38	36.42	346	259	A	H
	*	5598	104.73	-	-	100.85	31.98	8.13	36.23	346	259	P	H
	*	5598	97.37	-	-	93.49	31.98	8.13	36.23	346	259	A	H
		5740.44	44.44	-29.56	74	40.34	32.05	8.34	36.29	346	259	P	H
		5765	36.7	-17.3	54	32.58	32.05	8.37	36.3	346	259	A	H
		5448.56	45.76	-28.24	74	41.86	31.94	8.38	36.42	314	181	P	V
		5467.28	37.06	-16.94	54	33.16	31.95	8.35	36.4	314	181	A	V
	*	5598	103.86	-	-	99.98	31.98	8.13	36.23	314	181	P	V
	*	5598	98.86	-	-	94.98	31.98	8.13	36.23	314	181	A	V
		5744.36	44.96	-29.04	74	40.86	32.05	8.34	36.29	314	181	P	V
		5736.92	36.79	-17.21	54	32.69	32.05	8.34	36.29	314	181	A	V



802.11a CH 140 5700MHz	*	5698	102.17	-	-	98.15	32.02	8.25	36.25	374	263	P	H
	*	5698	93.7	-	-	89.68	32.02	8.25	36.25	374	263	A	H
		5729.08	49.23	-24.77	74	45.16	32.04	8.31	36.28	374	263	P	H
		5747.96	41.51	-12.49	54	37.41	32.05	8.34	36.29	374	263	A	H
	*	5700	101.92	-	-	97.9	32.02	8.25	36.25	311	179	P	V
	*	5700	96.05	-	-	92.03	32.02	8.25	36.25	311	179	A	V
		5725.72	50.13	-23.87	74	46.06	32.04	8.31	36.28	311	179	P	V
		5725.48	42.77	-11.23	54	38.7	32.04	8.31	36.28	311	179	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	43.84	-30.16	74	49.19	38.4	12.25	56	100	0	P	H
		11000	43.17	-30.83	74	48.52	38.4	12.25	56	200	360	P	V
802.11a CH 120 5600MHz		11200	41.37	-32.63	74	46.92	38.48	12.38	56.41	200	0	P	H
		11200	40.9	-33.1	74	46.45	38.48	12.38	56.41	200	360	P	V
802.11a CH 140 5700MHz		11400	41.59	-32.41	74	47.32	38.56	12.52	56.81	200	0	P	H
		11400	40.59	-33.41	74	46.32	38.56	12.52	56.81	200	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable 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)
802.11ac VHT20 CH 100 5500MHz		5460.56	49.41	-24.59	74	45.51	31.94	8.38	36.42	304	72	P	H
		5469.99	42.18	-11.82	54	38.28	31.95	8.35	36.4	304	72	A	H
	*	5496	102.79	-	-	98.9	31.95	8.32	36.38	304	72	P	H
	*	5496	96	-	-	92.11	31.95	8.32	36.38	304	72	A	H
		5470	50.61	-23.39	74	46.71	31.95	8.35	36.4	366	175	P	V
		5470	42.78	-11.22	54	38.88	31.95	8.35	36.4	366	175	A	V
	*	5498	105.89	-	-	101.99	31.96	8.29	36.35	366	175	P	V
	*	5498	99.73	-	-	95.83	31.96	8.29	36.35	366	175	A	V
802.11ac VHT20 CH 120 5600MHz		5390.16	44.79	-29.21	74	40.94	31.92	8.43	36.5	326	200	P	H
		5468.56	36.92	-17.08	54	33.02	31.95	8.35	36.4	326	200	A	H
	*	5600	101.76	-	-	97.87	31.99	8.1	36.2	326	200	P	H
	*	5600	96.15	-	-	92.26	31.99	8.1	36.2	326	200	A	H
		5753.08	45	-29	74	40.88	32.05	8.37	36.3	326	200	P	H
		5757.32	36.63	-17.37	54	32.51	32.05	8.37	36.3	326	200	A	H
		5455.6	45.79	-28.21	74	41.89	31.94	8.38	36.42	315	163	P	V
		5454.32	37.47	-16.53	54	33.57	31.94	8.38	36.42	315	163	A	V
	*	5596	107.18	-	-	103.3	31.98	8.13	36.23	315	163	P	V
	*	5596	100.68	-	-	96.8	31.98	8.13	36.23	315	163	A	V
		5730.36	45.09	-28.91	74	41.02	32.04	8.31	36.28	315	163	P	V
		5761.16	36.88	-17.12	54	32.76	32.05	8.37	36.3	315	163	A	V



802.11ac VHT20 CH 140 5700MHz	*	5698	100.89	-	-	96.87	32.02	8.25	36.25	398	226	P	H
	*	5698	93.79	-	-	89.77	32.02	8.25	36.25	398	226	A	H
		5730.12	49.33	-24.67	74	45.26	32.04	8.31	36.28	398	226	P	H
		5725.24	40.86	-13.14	54	36.79	32.04	8.31	36.28	398	226	A	H
	*	5702	104.49	-	-	100.45	32.03	8.28	36.27	330	160	P	V
	*	5702	97.31	-	-	93.27	32.03	8.28	36.27	330	160	A	V
		5726.2	50.79	-23.21	74	46.72	32.04	8.31	36.28	330	160	P	V
		5725.01	43.3	-10.7	54	39.23	32.04	8.31	36.28	330	160	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

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)	Cable Loss (dB)	Preamplifier Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20		11000	43.27	-30.73	74	48.62	38.4	12.25	56	200	360	P	H
CH 100 5500MHz		11000	43.47	-30.53	74	48.82	38.4	12.25	56	200	360	P	V
802.11ac VHT20		11200	42.11	-31.89	74	47.66	38.48	12.38	56.41	200	360	P	H
CH 120 5600MHz		11200	41.38	-32.62	74	46.93	38.48	12.38	56.41	200	360	P	V
802.11ac VHT20		11400	41.74	-32.26	74	47.47	38.56	12.52	56.81	200	360	P	H
CH 140 5700MHz		11400	41.58	-32.42	74	47.31	38.56	12.52	56.81	200	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 102 5510MHz		5469.84	55.29	-18.71	74	51.39	31.95	8.35	36.4	302	123	P	H
		5469.99	48.85	-5.15	54	44.95	31.95	8.35	36.4	302	123	A	H
	*	5514	104.08	-	-	100.19	31.96	8.26	36.33	302	123	P	H
	*	5514	96.5	-	-	92.61	31.96	8.26	36.33	302	123	A	H
		5731.8	45.22	-28.78	74	41.15	32.04	8.31	36.28	302	123	P	H
		5744.36	37.54	-16.46	54	33.44	32.05	8.34	36.29	302	123	A	H
		5463.6	58.35	-15.65	74	54.45	31.95	8.35	36.4	313	331	P	V
		5469.99	48.2	-5.8	54	44.3	31.95	8.35	36.4	313	331	A	V
	*	5506	102.33	-	-	98.43	31.96	8.29	36.35	313	331	P	V
	*	5506	95.81	-	-	91.91	31.96	8.29	36.35	313	331	A	V
		5761.16	45.12	-28.88	74	41	32.05	8.37	36.3	313	331	P	V
		5743.24	37.13	-16.87	54	33.03	32.05	8.34	36.29	313	331	A	V
802.11ac VHT40 CH 110 5550MHz		5467.12	55.54	-18.46	74	51.64	31.95	8.35	36.4	308	123	P	H
		5453.84	42.13	-11.87	54	38.23	31.94	8.38	36.42	308	123	A	H
	*	5548	105.34	-	-	101.45	31.97	8.2	36.28	308	123	P	H
	*	5548	98.3	-	-	94.41	31.97	8.2	36.28	308	123	A	H
		5747.08	50.02	-23.98	74	45.92	32.05	8.34	36.29	308	123	P	H
		5733	38.22	-15.78	54	34.15	32.04	8.31	36.28	308	123	A	H
		5456.56	53.28	-20.72	74	49.38	31.94	8.38	36.42	312	331	P	V
		5462.8	42.23	-11.77	54	38.33	31.95	8.35	36.4	312	331	A	V
	*	5554	103.89	-	-	100	31.97	8.2	36.28	312	331	P	V
	*	5554	97.32	-	-	93.43	31.97	8.2	36.28	312	331	A	V
		5754.28	47.09	-26.91	74	42.97	32.05	8.37	36.3	312	331	P	V
		5758.44	37.23	-16.77	54	33.11	32.05	8.37	36.3	312	331	A	V



802.11ac VHT40 CH 134 5670MHz		5455.28	45.71	-28.29	74	41.81	31.94	8.38	36.42	311	125	P	H
		5460.08	37.3	-16.7	54	33.4	31.94	8.38	36.42	311	125	A	H
	*	5674	103.91	-	-	99.91	32.02	8.22	36.24	311	125	P	H
	*	5674	98.34	-	-	94.34	32.02	8.22	36.24	311	125	A	H
		5753.72	57.55	-16.45	74	53.43	32.05	8.37	36.3	311	125	P	H
		5730.84	45.38	-8.62	54	41.31	32.04	8.31	36.28	311	125	A	H
		5428.56	50.86	-23.14	74	46.96	31.94	8.41	36.45	316	321	P	V
		5458.32	37.66	-16.34	54	33.76	31.94	8.38	36.42	316	321	A	V
	*	5674	103.69	-	-	99.69	32.02	8.22	36.24	316	321	P	V
	*	5674	96.54	-	-	92.54	32.02	8.22	36.24	316	321	A	V
		5757	50.4	-23.6	74	46.28	32.05	8.37	36.3	316	321	P	V
		5727.16	42.61	-11.39	54	38.54	32.04	8.31	36.28	316	321	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

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)	Cable Loss (dB)	Preamplifier Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40		11020	42.74	-31.26	74	48.1	38.41	12.26	56.03	100	360	P	H
CH 102 5510MHz		11020	42.97	-31.03	74	48.33	38.41	12.26	56.03	100	0	P	V
802.11ac VHT40		11100	44.35	-29.65	74	49.79	38.44	12.32	56.2	100	360	P	H
CH 110 5550MHz		11100	42.49	-31.51	74	47.93	38.44	12.32	56.2	100	0	P	V
802.11ac VHT40		11340	40.48	-33.52	74	46.16	38.53	12.47	56.68	100	360	P	H
CH 134 5670MHz		11340	40.95	-33.05	74	46.63	38.53	12.47	56.68	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5466.64	51.54	-22.46	74	47.64	31.95	8.35	36.4	311	70	P	H
		5466.32	44.68	-9.32	54	40.78	31.95	8.35	36.4	311	70	A	H
	*	5518	95.68	-	-	91.79	31.96	8.26	36.33	311	70	P	H
	*	5518	87.59	-	-	83.7	31.96	8.26	36.33	311	70	A	H
		5728.28	45.42	-28.58	74	41.35	32.04	8.31	36.28	311	70	P	H
		5748.04	37.46	-16.54	54	33.36	32.05	8.34	36.29	311	70	A	H
		5468.08	56.1	-17.9	74	52.2	31.95	8.35	36.4	367	295	P	V
		5467.76	47.98	-6.02	54	44.08	31.95	8.35	36.4	367	295	A	V
	*	5534	96.75	-	-	92.85	31.97	8.23	36.3	367	295	P	V
	*	5534	90.53	-	-	86.63	31.97	8.23	36.3	367	295	A	V
		5746.2	45.87	-28.13	74	41.77	32.05	8.34	36.29	367	295	P	V
		5732.36	37.83	-16.17	54	33.76	32.04	8.31	36.28	367	295	A	V
802.11ac VHT80 CH 122 5610MHz		5466	51.37	-22.63	74	47.47	31.95	8.35	36.4	397	289	P	H
		5465.68	44.25	-9.75	54	40.35	31.95	8.35	36.4	397	289	A	H
	*	5594	99.59	-	-	95.71	31.98	8.13	36.23	397	289	P	H
	*	5594	92.54	-	-	88.66	31.98	8.13	36.23	397	289	A	H
		5728.92	49.18	-24.82	74	45.11	32.04	8.31	36.28	397	289	P	H
		5726.36	42.2	-11.8	54	38.13	32.04	8.31	36.28	397	289	A	H
		5469.68	50.29	-23.71	74	46.39	31.95	8.35	36.4	299	181	P	V
		5465.84	42.54	-11.46	54	38.64	31.95	8.35	36.4	299	181	A	V
	*	5622	100.03	-	-	96.12	31.99	8.13	36.21	299	181	P	V
	*	5622	93.41	-	-	89.5	31.99	8.13	36.21	299	181	A	V
		5729.88	50.1	-23.9	74	46.03	32.04	8.31	36.28	299	181	P	V
		5725.01	42.67	-11.33	54	38.6	32.04	8.31	36.28	299	181	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80		11060	43.19	-30.81	74	48.6	38.43	12.3	56.14	100	360	P	H
CH 106 5530MHz		11060	42.62	-31.38	74	48.03	38.43	12.3	56.14	100	0	P	V
802.11ac VHT80		11220	41.77	-32.23	74	47.33	38.49	12.39	56.44	100	360	P	H
CH 122 5610MHz		11220	42.2	-31.8	74	47.76	38.49	12.39	56.44	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11a (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz	*	5716	99.38	-	-	95.34	32.03	8.28	36.27	384	278	P	H
	*	5716	92.54	-	-	88.5	32.03	8.28	36.27	384	278	A	H
	*	5716	102.44	-	-	98.4	32.03	8.28	36.27	313	183	P	V
	*	5716	94.65	-	-	90.61	32.03	8.28	36.27	313	183	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	40.9	-33.1	74	46.67	38.57	12.54	56.88	100	360	P	H
		11440	40.77	-33.23	74	46.54	38.57	12.54	56.88	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT20 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac	*	5716	100.46	-	-	96.42	32.03	8.28	36.27	400	264	P	H
VHT20	*	5716	93.2	-	-	89.16	32.03	8.28	36.27	400	264	A	H
CH 144	*	5724	103.2	-	-	99.13	32.04	8.31	36.28	321	177	P	V
5720MHz	*	5724	95.75	-	-	91.68	32.04	8.31	36.28	321	177	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel
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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11440	42.22	-31.78	74	47.99	38.57	12.54	56.88	100	360	P	H
VHT20													
CH 144		11440	41.8	-32.2	74	47.57	38.57	12.54	56.88	100	0	P	V
5720MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		5704	98.69	-	-	94.65	32.03	8.28	36.27	396	293	P	H
VHT40		5704	91.48	-	-	87.44	32.03	8.28	36.27	396	293	A	H
CH 142		5706	99.6	-	-	95.56	32.03	8.28	36.27	390	172	P	V
5710MHz		5706	92.79	-	-	88.75	32.03	8.28	36.27	390	172	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel
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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11420	42.55	-31.45	74	48.3	38.57	12.53	56.85	100	360	P	H
VHT40		11420	41.57	-32.43	74	47.32	38.57	12.53	56.85	100	0	P	V
CH 142													
5710MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac	*	5674	91.69	-	-	87.69	32.02	8.22	36.24	299	216	P	H
VHT80	*	5674	84.06	-	-	80.06	32.02	8.22	36.24	299	216	A	H
CH 138	*	5698	95.1	-	-	91.08	32.02	8.25	36.25	398	181	P	V
5690MHz	*	5698	88.32	-	-	84.3	32.02	8.25	36.25	398	181	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel
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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11380	40.36	-33.64	74	46.08	38.55	12.51	56.78	100	360	P	H
VHT80													
CH 138		11380	41.55	-32.45	74	47.27	38.55	12.51	56.78	100	0	P	V
5690MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ac VHT40 (LF @ 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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 LF		34.85	28.06	-11.94	40	33.2	25.5	0.71	31.35	-	-	P	H
		202.66	35.73	-7.77	43.5	49.61	15.88	1.73	31.49	-	-	P	H
		312.27	37.65	-8.35	46	47.21	19.59	2.18	31.33	-	-	P	H
		647.89	39.97	-6.03	46	42.26	25.65	3.2	31.14	-	-	P	H
		709	40.74	-5.26	46	41.7	26.73	3.37	31.06	100	0	P	H
		910.76	35.62	-10.38	46	33.86	28.71	3.88	30.83	-	-	P	H
		31.94	34.02	-5.98	40	38.12	26.52	0.68	31.3	100	360	P	V
		64.92	29.02	-10.98	40	46.23	13.3	0.97	31.48	-	-	P	V
		312.27	35.63	-10.37	46	45.19	19.59	2.18	31.33	-	-	P	V
		359.8	35.52	-10.48	46	42.74	21.67	2.33	31.22	-	-	P	V
		455.83	34.19	-11.81	46	37.53	25.24	2.66	31.24	-	-	P	V
		902.03	38.51	-7.49	46	36.95	28.56	3.85	30.85	-	-	P	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 Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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

Note symbol

-L	Low channel location
-R	High channel location

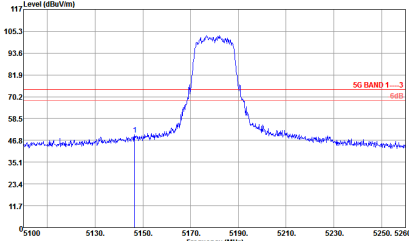
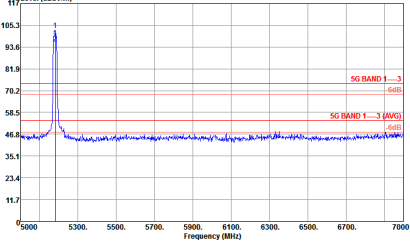
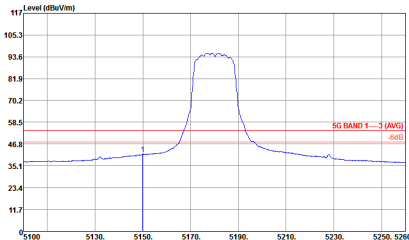


Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																																																																						
ANT	802.11a CH36 5180MHz																																																																																						
1+2	Horizontal					Fundamental																																																																																	
Peak	Site : 83CH03-K5 Condition : 5G BAND 1-3 3m HF ANT-2015013-91200 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 5149.28</td><td>48.53</td><td>-25.47</td><td>74.00</td><td>45.38</td><td>31.84</td><td>7.92</td><td>36.53</td><td>311</td><td>86 Peak</td><td>HORIZONTAL</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg			1 5149.28	48.53	-25.47	74.00	45.38	31.84	7.92	36.53	311	86 Peak	HORIZONTAL	Site : 83CH03-K5 Condition : 5G BAND 1-3 3m HF ANT-2015013-91200 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 * 5178.00</td><td>99.61</td><td></td><td></td><td>96.33</td><td>31.85</td><td>7.94</td><td>36.51</td><td>311</td><td>86 Peak</td><td>HORIZONTAL</td></tr><tr><td>2 * 5178.00</td><td>93.23</td><td></td><td></td><td>89.95</td><td>31.85</td><td>7.94</td><td>36.51</td><td>311</td><td>86 Average</td><td>HORIZONTAL</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg			1 * 5178.00	99.61			96.33	31.85	7.94	36.51	311	86 Peak	HORIZONTAL	2 * 5178.00	93.23			89.95	31.85	7.94	36.51	311	86 Average	HORIZONTAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																												
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																															
1 5149.28	48.53	-25.47	74.00	45.38	31.84	7.92	36.53	311	86 Peak	HORIZONTAL																																																																													
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																													
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																															
1 * 5178.00	99.61			96.33	31.85	7.94	36.51	311	86 Peak	HORIZONTAL																																																																													
2 * 5178.00	93.23			89.95	31.85	7.94	36.51	311	86 Average	HORIZONTAL																																																																													
Avg.	Site : 83CH03-K5 Condition : 5G BAND 1-3 (AVG) 3m HF ANT-2015013-91200 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 5149.92</td><td>39.90</td><td>-14.10</td><td>54.00</td><td>36.67</td><td>31.84</td><td>7.92</td><td>36.53</td><td>311</td><td>86 Average</td><td>HORIZONTAL</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg			1 5149.92	39.90	-14.10	54.00	36.67	31.84	7.92	36.53	311	86 Average	HORIZONTAL																																																	
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																												
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																															
1 5149.92	39.90	-14.10	54.00	36.67	31.84	7.92	36.53	311	86 Average	HORIZONTAL																																																																													



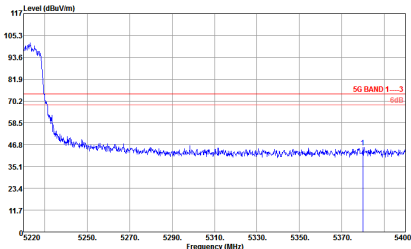
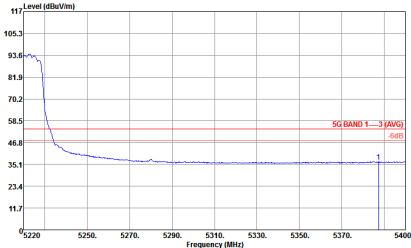


WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																																																															
ANT	802.11a CH36 5180MHz																																																																															
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Peak	 Site : 83CH83-KS Condition : 5G BAND 1-3 3m HF ANT-2015813-91280 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5146.56</td><td>49.87</td><td>-24.13</td><td>74.00</td><td>46.64</td><td>31.84</td><td>7.92</td><td>36.53</td><td>324</td><td>294 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg		1	5146.56	49.87	-24.13	74.00	46.64	31.84	7.92	36.53	324	294 Peak	VERTICAL	 Site : 83CH83-KS Condition : 5G BAND 1-3 3m HF ANT-2015813-91280 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 *</td><td>5180.00</td><td>182.65</td><td></td><td>99.37</td><td>31.85</td><td>7.94</td><td>36.51</td><td>324</td><td>294 Peak</td><td>VERTICAL</td></tr><tr><td>2 *</td><td>5180.00</td><td>95.57</td><td></td><td>92.29</td><td>31.85</td><td>7.94</td><td>36.51</td><td>324</td><td>294 Average</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg		1 *	5180.00	182.65		99.37	31.85	7.94	36.51	324	294 Peak	VERTICAL	2 *	5180.00	95.57		92.29	31.85	7.94	36.51	324	294 Average	VERTICAL
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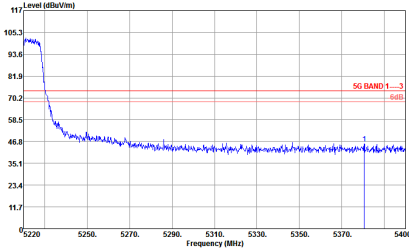
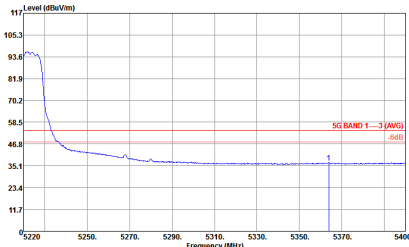


WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																									
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Peak	 Site : 63CH03-K5 Condition : 5G BAND 1-3 3m HF ANT-2015813-91280 HORIZONTAL : BW:1000.000KHz VSW:3.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5379.84</td><td>45.41</td><td>-28.59</td><td>74.00</td><td>41.56</td><td>31.92</td><td>8.43</td><td>36.50</td><td>388</td><td>86 Peak</td><td>HORIZONTAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	5379.84	45.41	-28.59	74.00	41.56	31.92	8.43	36.50	388	86 Peak	HORIZONTAL
	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																
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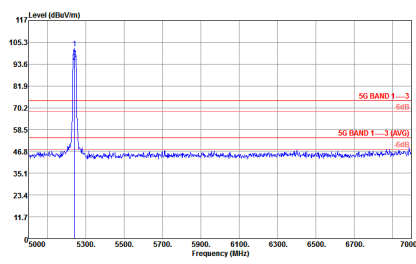


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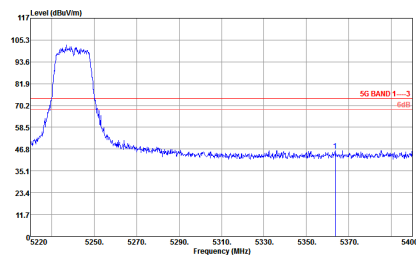
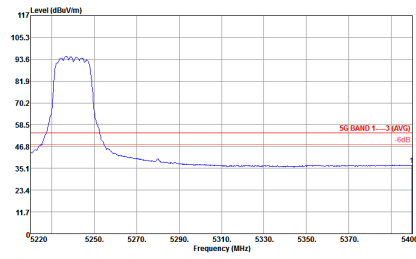


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Peak	 Site Condition : 83CH03-K5 : 5G BAND 1----3 3e HF ANT-2015813-91200 VERTICAL : RSW:1000.000KHz VSW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5380.56</td><td>45.76</td><td>-28.24</td><td>74.80</td><td>41.91</td><td>31.92</td><td>8.43</td><td>36.50</td><td>370</td><td>291 Peak</td><td>VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5380.56	45.76	-28.24	74.80	41.91	31.92	8.43	36.50	370	291 Peak	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																	
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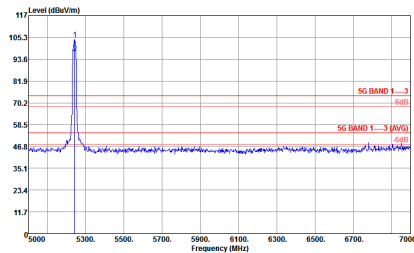


WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																																					
ANT	802.11a CH48 5240MHz - L																																																					
1+2	Horizontal					Fundamental																																																
Peak						 Site : 83CH03-KS Condition : 5G BAND 1-3 3m HP ANT-20151813-01200 HORIZONTAL RBW:3000.000KHz VBW:3000.000KHz SM:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Antenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1 * 5240.00</td><td>101.95</td><td>-----</td><td>80.54</td><td>31.67</td><td>8.04</td><td>36.58</td><td>389</td><td>73</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2 * 5240.00</td><td>94.93</td><td>-----</td><td>81.52</td><td>31.67</td><td>8.04</td><td>36.58</td><td>389</td><td>73</td><td>Average</td><td>HORIZONTAL</td></tr></tbody></table>					Freq	Level	Limit	Line	Antenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg			1 * 5240.00	101.95	-----	80.54	31.67	8.04	36.58	389	73	Peak	HORIZONTAL	2 * 5240.00	94.93	-----	81.52	31.67	8.04	36.58	389	73	Average	HORIZONTAL
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1+2	Horizontal					Fundamental																																						
Peak	 Site : 83CH03-KS Condition : 5G BAND 1----3 3e HF ANT-2015813-91280 HORIZONTAL : BW:1000.000KHz VSW:1.000KHz SMT:Auto <table><tr><th>Frq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5163.64</td><td>46.85</td><td>-27.95</td><td>74.88</td><td>42.25</td><td>31.91</td><td>8.39</td><td>36.58</td><td>389</td><td>73 Peak</td><td>HORIZONTAL</td></tr></table>										Frq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg		1	5163.64	46.85	-27.95	74.88	42.25	31.91	8.39	36.58	389	73 Peak	HORIZONTAL
	Frq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																	
MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg																																			
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Avg.	 Site : 83CH03-KS Condition : 5G BAND 1----3 (AVG) 3e HF ANT-2015813-91280 HORIZONTAL : BW:1000.000KHz VSW:1.000KHz SMT:Auto <table><tr><th>Frq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5199.64</td><td>36.72</td><td>-17.28</td><td>54.88</td><td>32.82</td><td>31.92</td><td>8.48</td><td>36.58</td><td>389</td><td>73 Average</td><td>HORIZONTAL</td></tr></table>										Frq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg		1	5199.64	36.72	-17.28	54.88	32.82	31.92	8.48	36.58	389	73 Average	HORIZONTAL
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WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																																	
ANT	802.11a CH48 5240MHz - L																																																	
1+2	Vertical					Fundamental																																												
Peak						 Site : 83CH83-KS Condition : 50 BAND 1-3 3m HF ANT-2815013-912ND VERTICAL RSW:1000.000000Hz VSW:3000.000000Hz SMT:Auto <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1 *</td><td>5242.00</td><td>104.38</td><td></td><td>100.92</td><td>31.88</td><td>8.00</td><td>36.50</td><td>388</td><td>162 Peak VERTICAL</td></tr><tr><td>2 *</td><td>5242.00</td><td>96.93</td><td></td><td>93.47</td><td>31.88</td><td>8.00</td><td>36.50</td><td>388</td><td>162 Average VERTICAL</td></tr></tbody></table>						Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg		1 *	5242.00	104.38		100.92	31.88	8.00	36.50	388	162 Peak VERTICAL	2 *	5242.00	96.93		93.47	31.88	8.00	36.50	388	162 Average VERTICAL
	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																									
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg																																										
1 *	5242.00	104.38		100.92	31.88	8.00	36.50	388	162 Peak VERTICAL																																									
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WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																											
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Peak	Site : 83CH03-KS Condition : 5G BAND 1----3 3m HF ANT-2015813-91280 VERTICAL : 100V 1000.000MHz VSW:1.000MHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5386.14</td><td>46.88</td><td>-27.12</td><td>74.88</td><td>43.83</td><td>31.92</td><td>8.43</td><td>36.58</td><td>388</td><td>162 Peak</td><td>VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg		1	5386.14	46.88	-27.12	74.88	43.83	31.92	8.43	36.58	388	162 Peak	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																	
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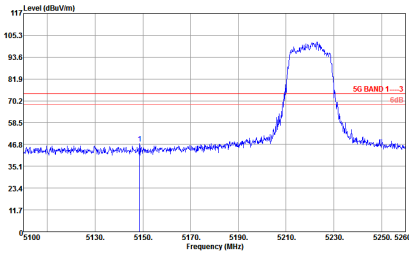
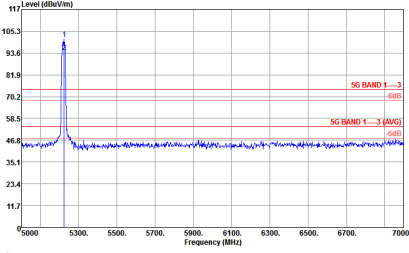
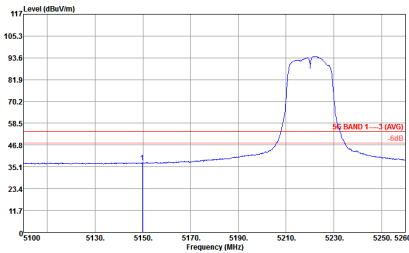
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																																																														
ANT	802.11ac VHT20 CH36 5180MHz																																																																														
1+2	Horizontal	Fundamental																																																																													
Peak	Site Condition : 83CH03-K5 : 5G BAND 1----3 3m HF ANT-2015813-91200 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1 5147.28</td><td>48.53</td><td>-25.47</td><td>74.00</td><td>45.38</td><td>31.84</td><td>7.92</td><td>36.53</td><td>382</td><td>83 Peak</td><td>HORIZONTAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 5147.28	48.53	-25.47	74.00	45.38	31.84	7.92	36.53	382	83 Peak	HORIZONTAL	Site Condition : 83CH03-K5 : 5G BAND 1----3 3m HF ANT-2015813-91200 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1 * 5182.00</td><td>99.15</td><td>:</td><td></td><td>95.87</td><td>31.85</td><td>7.94</td><td>36.51</td><td>382</td><td>83 Peak</td><td>HORIZONTAL</td></tr><tr><td>2 * 5182.00</td><td>92.77</td><td>:</td><td></td><td>89.49</td><td>31.85</td><td>7.94</td><td>36.51</td><td>382</td><td>83 Average</td><td>HORIZONTAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 * 5182.00	99.15	:		95.87	31.85	7.94	36.51	382	83 Peak	HORIZONTAL	2 * 5182.00	92.77	:		89.49	31.85	7.94	36.51	382	83 Average	HORIZONTAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																				
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Avg.	Site Condition : 83CH03-K5 : 5G BAND 1----3 (AVG) 3m HF ANT-2015813-91200 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SMT:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1 5149.92</td><td>39.84</td><td>-14.16</td><td>54.00</td><td>36.63</td><td>31.84</td><td>7.92</td><td>36.53</td><td>382</td><td>83 Average</td><td>HORIZONTAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 5149.92	39.84	-14.16	54.00	36.63	31.84	7.92	36.53	382	83 Average	HORIZONTAL																																													
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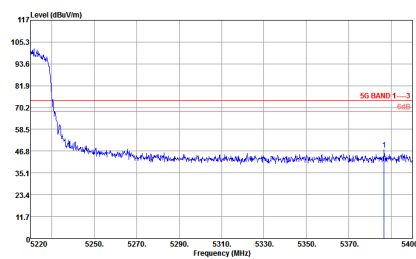
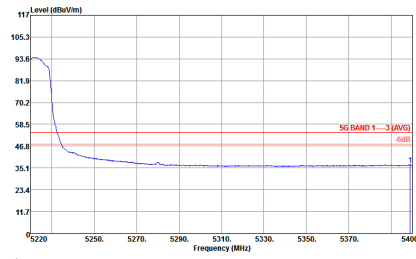


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ANT	802.11ac VHT20 CH36 5180MHz																																																																																						
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Peak	Site : 83CH03-K5 Condition : 5G BAND 1-3 3m HF ANT-2015813-91280 VERTICAL : dBu:1000.000MHz VSW:3.000.000Hz SMT:Auto <table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5149.92</td><td>49.91</td><td>-24.09</td><td>74.00</td><td>46.68</td><td>31.84</td><td>7.92</td><td>36.53</td><td>356</td><td>291</td><td>Peak</td><td>VERTICAL</td></tr></table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level Factor	Loss Factor				MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg	1	5149.92	49.91	-24.09	74.00	46.68	31.84	7.92	36.53	356	291	Peak	VERTICAL	Site : 83CH03-K5 Condition : 5G BAND 1-3 3m HF ANT-2015813-91280 VERTICAL : dBu:1000.000MHz VSW:3.000.000Hz SMT:Auto <table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5178.00</td><td>182.83</td><td></td><td>99.55</td><td>31.85</td><td>7.94</td><td>36.51</td><td>356</td><td>291</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>5178.00</td><td>95.11</td><td></td><td>91.83</td><td>31.85</td><td>7.94</td><td>36.51</td><td>356</td><td>291</td><td>Average</td><td>VERTICAL</td></tr></table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level Factor	Loss Factor				MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg	1	5178.00	182.83		99.55	31.85	7.94	36.51	356	291	Peak	VERTICAL	2	5178.00	95.11		91.83	31.85	7.94	36.51	356	291	Average	VERTICAL
	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																															
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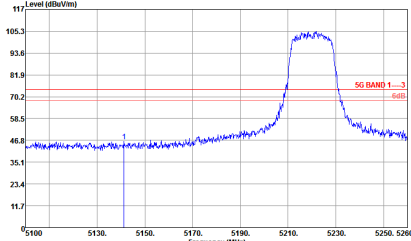
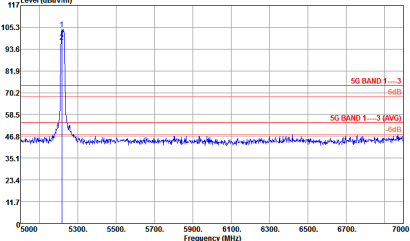
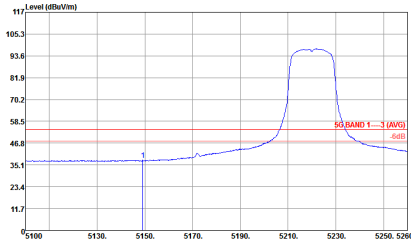


WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																																																																							
ANT	802.11ac VHT20 CH44 5220MHz - L																																																																																							
1+2	Horizontal					Fundamental																																																																																		
Peak	 Site : 83CH3-KS Condition : 5G BAND 1-3 3m HF ANT-2015813-91200 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5148.64</td><td>47.24</td><td>-26.76</td><td>74.00</td><td>44.01</td><td>31.84</td><td>7.92</td><td>36.53</td><td>334</td><td>72 Peak</td><td>HORIZONTAL</td></tr></table>						Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	5148.64	47.24	-26.76	74.00	44.01	31.84	7.92	36.53	334	72 Peak	HORIZONTAL	 Site : 83CH3-KS Condition : 5G BAND 1-3 3m HF ANT-2015813-91200 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5224.00</td><td>100.96</td><td></td><td>97.61</td><td>31.86</td><td>7.99</td><td>36.58</td><td>334</td><td>72 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>5224.00</td><td>94.29</td><td></td><td>90.94</td><td>31.86</td><td>7.99</td><td>36.58</td><td>334</td><td>72 Average</td><td>HORIZONTAL</td></tr></table>						Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	5224.00	100.96		97.61	31.86	7.99	36.58	334	72 Peak	HORIZONTAL	2	5224.00	94.29		90.94	31.86	7.99	36.58	334	72 Average	HORIZONTAL
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ANT	802.11ac VHT20 CH44 5220MHz - R																																											
1+2	Horizontal	Fundamental																																										
Peak	 Site : 83CM83-KS Condition : 5G BAND 1----3 3m HP ANT-2015813-91280 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><thead><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5386.68</td><td>47.72</td><td>-26.28</td><td>74.00</td><td>43.87</td><td>31.92</td><td>8.43</td><td>36.50</td><td>334</td><td>72 Peak</td><td>HORIZONTAL</td></tr></tbody></table>		Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		Freq	Level	Limit	Line	Level	Factor	Loss	Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	5386.68	47.72	-26.28	74.00	43.87	31.92	8.43	36.50	334	72 Peak	HORIZONTAL	
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Avg.	 Site : 83CM83-KS Condition : 5G BAND 1----3 (AVG) 3m HP ANT-2015813-91280 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SMT:Auto <table><thead><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5398.92</td><td>36.89</td><td>-17.11</td><td>54.00</td><td>32.99</td><td>31.92</td><td>8.48</td><td>36.50</td><td>334</td><td>72 Average</td><td>HORIZONTAL</td></tr></tbody></table>		Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		Freq	Level	Limit	Line	Level	Factor	Loss	Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	5398.92	36.89	-17.11	54.00	32.99	31.92	8.48	36.50	334	72 Average	HORIZONTAL	
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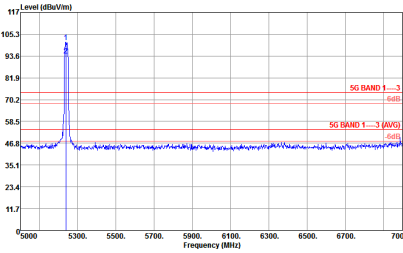


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ANT	802.11ac VHT20 CH44 5220MHz - L																																																																																							
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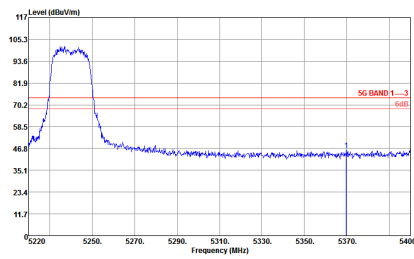
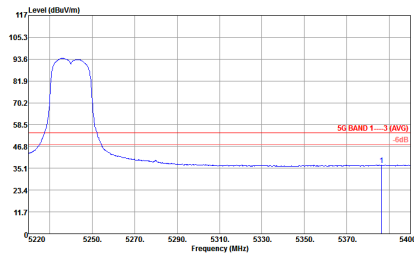


WIFI	Band 1 5150~5250MHz Band Edge @ 3m											
ANT	802.11ac VHT20 CH44 5220MHz - R											
1+2	Vertical						Fundamental					
Peak												

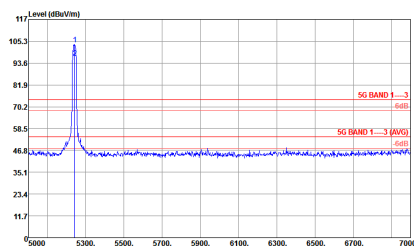


WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																									
ANT	802.11ac VHT20 CH48 5240MHz - L																																									
1+2	Horizontal	Fundamental																																								
Peak		 Site : 83CH03-KS Condition : 5G BAND 1-3 3m HF ANT-3015013-91200 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMTAuto <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1 *</td><td>5238.00</td><td>100.97</td><td>17.56</td><td>31.87</td><td>8.04</td><td>36.58</td><td>334</td><td>75 Peak</td><td>HORIZONTAL</td></tr><tr><td>2 *</td><td>5238.00</td><td>93.88</td><td>10.47</td><td>31.87</td><td>8.04</td><td>36.58</td><td>334</td><td>75 Average</td><td>HORIZONTAL</td></tr></tbody></table>		Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg		1 *	5238.00	100.97	17.56	31.87	8.04	36.58	334	75 Peak	HORIZONTAL	2 *	5238.00	93.88	10.47	31.87	8.04	36.58	334	75 Average	HORIZONTAL
	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																	
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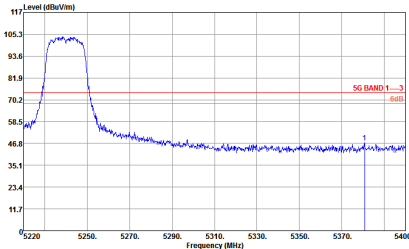
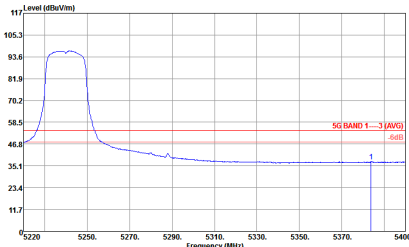


WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																																				
ANT	802.11ac VHT20 CH48 5240MHz - R																																																				
1+2	Horizontal						Fundamental																																														
Peak	 Site : 83CH03-KS Condition : SG BAND 1----3 3e HF ANT-2015813-91280 HORIZONTAL : BW:1000.0000MHz VSW:3.0000 SMT:Auto <table><tr><th>-----</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5369.76</td><td>46.01</td><td>-27.99</td><td>74.00</td><td>42.21</td><td>31.91</td><td>8.39</td><td>36.50</td><td>334</td><td>75 Peak</td><td>HORIZONTAL</td></tr></table>											-----	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	Loss	Factor				MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg		1	5369.76	46.01	-27.99	74.00	42.21	31.91	8.39	36.50	334	75 Peak	HORIZONTAL
	-----	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																											
Freq	Level	Line	Level	Factor	Loss	Factor																																															
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg																																													
1	5369.76	46.01	-27.99	74.00	42.21	31.91	8.39	36.50	334	75 Peak	HORIZONTAL																																										
Avg.	 Site : 83CH03-KS Condition : SG BAND 1----3 (AVG) 3e HF ANT-2015813-91280 HORIZONTAL : BW:1000.0000MHz VSW:1.0000 SMT:Auto <table><tr><th>-----</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5366.32</td><td>36.82</td><td>-17.18</td><td>54.00</td><td>32.97</td><td>31.92</td><td>8.43</td><td>36.50</td><td>334</td><td>75 Average</td><td>HORIZONTAL</td></tr></table>											-----	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	Loss	Factor				MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg		1	5366.32	36.82	-17.18	54.00	32.97	31.92	8.43	36.50	334	75 Average	HORIZONTAL
	-----	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																											
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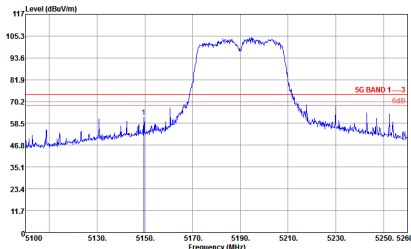
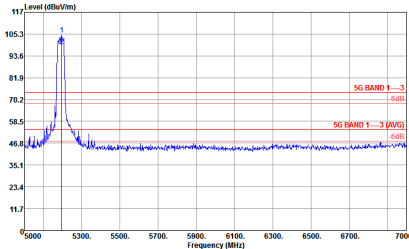
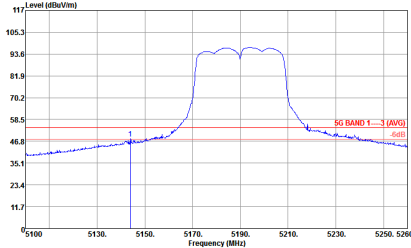
WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																																			
ANT	802.11ac VHT20 CH48 5240MHz - L																																																			
1+2	Vertical	Fundamental																																																		
Peak		 Site : 83CH3-KS Condition : SG BAND 1-3 3m HF ANT-2015013-01200 VERTICAL : 5000.000MHz VSWR: 3000.000VSWR: 507.000V <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pul/Phas</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th></th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 *</td><td>5242.00</td><td>103.79</td><td></td><td>100.33</td><td>31.00</td><td>0.00</td><td>36.50</td><td>364</td><td>72 Peak VERTICAL</td></tr><tr><td>2 *</td><td>5242.00</td><td>96.55</td><td></td><td>93.89</td><td>31.00</td><td>0.00</td><td>36.50</td><td>364</td><td>72 Average VERTICAL</td></tr></table>		Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pul/Phas		Freq	Level	Line	Level	Factor	Loss	Factor				MHz	dBuV/m		dBuV/m	dB	dB	dB	cm	deg	1 *	5242.00	103.79		100.33	31.00	0.00	36.50	364	72 Peak VERTICAL	2 *	5242.00	96.55		93.89	31.00	0.00	36.50	364	72 Average VERTICAL
	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pul/Phas																																											
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WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																											
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Peak	 Site : 83CH03-K5 Condition : 5G BAND 1----3 3m HF ANT-2015813-91200 VERTICAL : RBW:1000.000KHz VSW:1.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5380.74</td><td>47.24</td><td>-26.76</td><td>74.00</td><td>43.39</td><td>31.92</td><td>8.43</td><td>36.50</td><td>364</td><td>72 Peak</td><td>VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	5380.74	47.24	-26.76	74.00	43.39	31.92	8.43	36.50	364	72 Peak	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																			
1	5380.74	47.24	-26.76	74.00	43.39	31.92	8.43	36.50	364	72 Peak	VERTICAL																																	
Avg.	 Site : 83CH03-K5 Condition : 5G BAND 1----3 (AVG) 3m HF ANT-2015813-91200 VERTICAL : RBW:1000.000KHz VSW:1.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5383.80</td><td>37.49</td><td>-16.51</td><td>54.00</td><td>33.64</td><td>31.92</td><td>8.43</td><td>36.50</td><td>364</td><td>72 Average</td><td>VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	5383.80	37.49	-16.51	54.00	33.64	31.92	8.43	36.50	364	72 Average	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																			
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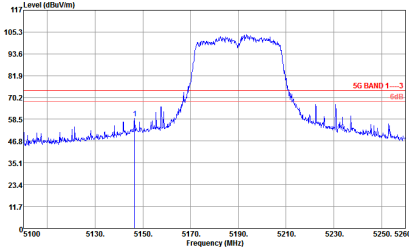
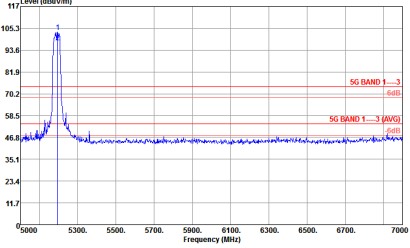
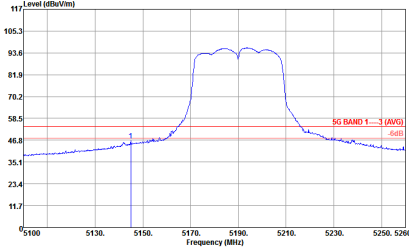
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																																																																														
ANT	802.11ac VHT40 CH38 5190MHz - L																																																																																														
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Peak	 Site : 83CH03-KS Condition : 5G BAND 1-3 3m HF ANT-2015013-91200 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5149.68</td><td>61.95</td><td>-12.85</td><td>74.80</td><td>58.72</td><td>31.84</td><td>7.92</td><td>36.53</td><td>385</td><td>115 Peak</td><td>HORIZONTAL</td></tr></table>							Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5149.68	61.95	-12.85	74.80	58.72	31.84	7.92	36.53	385	115 Peak	HORIZONTAL	 Site : 83CH03-KS Condition : 5G BAND 1-3 3m HF ANT-2015013-91200 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 *</td><td>5194.00</td><td>104.99</td><td></td><td></td><td>101.68</td><td>31.86</td><td>7.95</td><td>36.50</td><td>385</td><td>115 Peak</td><td>HORIZONTAL</td></tr><tr><td>2 *</td><td>5194.00</td><td>98.00</td><td></td><td></td><td>95.49</td><td>31.86</td><td>7.95</td><td>36.50</td><td>385</td><td>115 Average</td><td>HORIZONTAL</td></tr></table>						Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 *	5194.00	104.99			101.68	31.86	7.95	36.50	385	115 Peak	HORIZONTAL	2 *	5194.00	98.00			95.49	31.86	7.95	36.50	385	115 Average	HORIZONTAL
		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																			
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg																																																																																						
1	5149.68	61.95	-12.85	74.80	58.72	31.84	7.92	36.53	385	115 Peak	HORIZONTAL																																																																																				
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		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																			
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ANT	802.11ac VHT40 CH38 5190MHz - R									
1+2	Horizontal					Fundamental				
Peak	<									

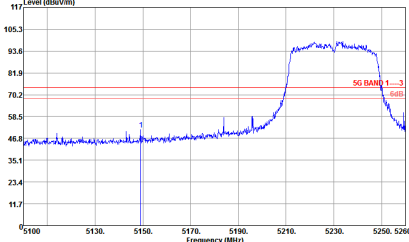
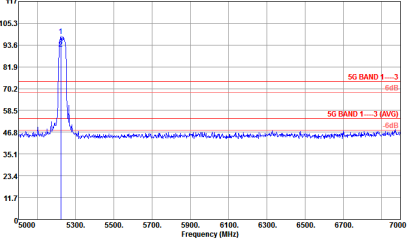
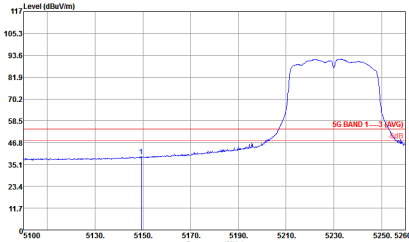


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Peak	 Site : 83CH3-KS Condition : 5G BAND 1----3 3m HF ANT-2015813-91200 VERTICAL : dBu:1000.0000Hz VSW:3.0000Hz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Hz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5146.56</td><td>58.83</td><td>-15.17</td><td>74.00</td><td>55.68</td><td>31.84</td><td>7.92</td><td>36.53</td><td>395</td><td>197 Peak</td><td>VERTICAL</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Hz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5146.56	58.83	-15.17	74.00	55.68	31.84	7.92	36.53	395	197 Peak	VERTICAL	 Site : 83CH3-KS Condition : 5G BAND 1----3 3m HF ANT-2015813-91200 VERTICAL : dBu:1000.0000Hz VSW:3.0000Hz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Hz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5194.00</td><td>103.47</td><td></td><td>100.16</td><td>31.86</td><td>7.95</td><td>36.50</td><td>395</td><td>197 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>5194.00</td><td>97.77</td><td></td><td>94.46</td><td>31.86</td><td>7.95</td><td>36.50</td><td>395</td><td>197 Average</td><td>VERTICAL</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Hz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5194.00	103.47		100.16	31.86	7.95	36.50	395	197 Peak	VERTICAL	2	5194.00	97.77		94.46	31.86	7.95	36.50	395	197 Average	VERTICAL
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1+2	Vertical					Fundamental				
Peak	<									

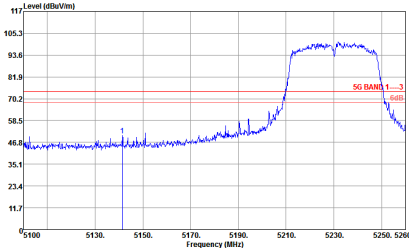
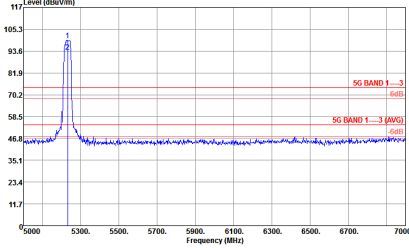
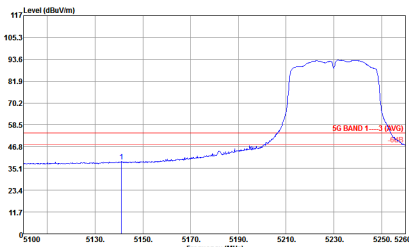


WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																																																							
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Peak	 Site Condition : 83CH03-KS : SG BAND 1-3 3m HF ANT-2015813-91280 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 5149.12</td><td>51.64</td><td>-22.36</td><td>74.00</td><td>48.43</td><td>31.84</td><td>7.92</td><td>36.53</td><td>387</td><td>87 Peak HORIZONTAL</td></tr></table>	Freq	Level	Over Limit	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1 5149.12	51.64	-22.36	74.00	48.43	31.84	7.92	36.53	387	87 Peak HORIZONTAL	 Site Condition : 83CH03-KS : SG BAND 1-3 3m HF ANT-2015813-91280 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 * 5222.00</td><td>98.29</td><td></td><td></td><td>94.94</td><td>31.86</td><td>7.99</td><td>36.50</td><td>387</td><td>87 Peak HORIZONTAL</td></tr><tr><td>2 * 5222.00</td><td>91.47</td><td></td><td></td><td>88.12</td><td>31.86</td><td>7.99</td><td>36.50</td><td>387</td><td>87 Average HORIZONTAL</td></tr></table>	Freq	Level	Over Limit	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1 * 5222.00	98.29			94.94	31.86	7.99	36.50	387	87 Peak HORIZONTAL	2 * 5222.00	91.47			88.12	31.86	7.99	36.50	387	87 Average HORIZONTAL
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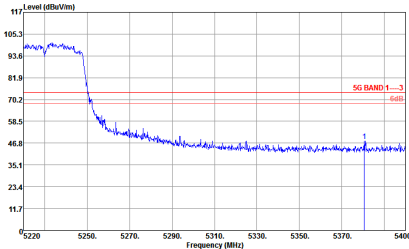
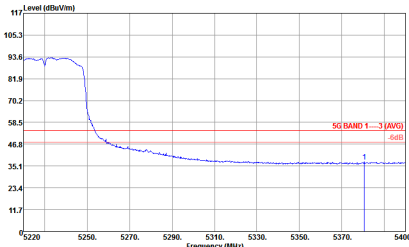


WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																											
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Peak	Site : 05CH03-K5 Condition : 5G BAND 1----3 3m HP ANT-2015813-91280 HORIZONTAL : RBW:100K, VBW:300K, SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5350.50</td><td>49.14</td><td>-24.86</td><td>74.00</td><td>45.39</td><td>31.91</td><td>8.34</td><td>36.50</td><td>387</td><td>87 Peak</td><td>HORIZONTAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5350.50	49.14	-24.86	74.00	45.39	31.91	8.34	36.50	387	87 Peak	HORIZONTAL
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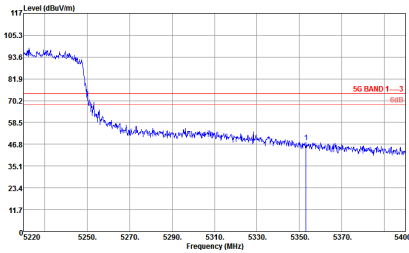
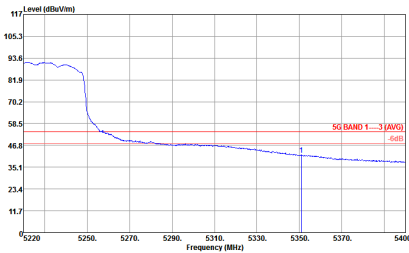
WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																											
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Avg.	 Site : 03CH03-K5 Condition : 5G BAND 1----3 (AVG) 3m HP ANT-2015813-91280 VERTICAL : dBu:1000.0000Hz VSW:3.0000Hz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5380.56</td><td>37.32</td><td>-16.68</td><td>54.00</td><td>33.47</td><td>31.92</td><td>8.43</td><td>36.50</td><td>299</td><td>267 Average</td><td>VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	5380.56	37.32	-16.68	54.00	33.47	31.92	8.43	36.50	299	267 Average	VERTICAL
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Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

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ANT	802.11ac VHT80 CH42 5210MHz - L																																																																														
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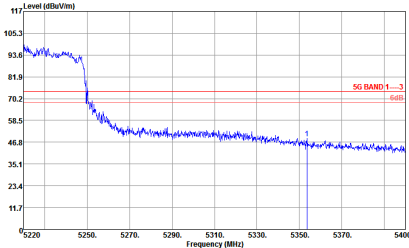
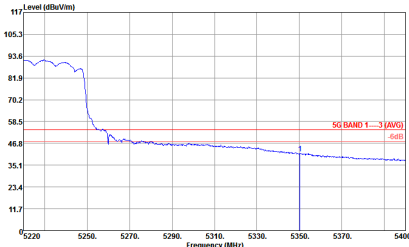


WIFI	Band 1 5150~5250MHz Band Edge @ 3m																																														
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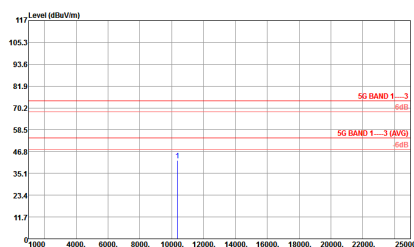
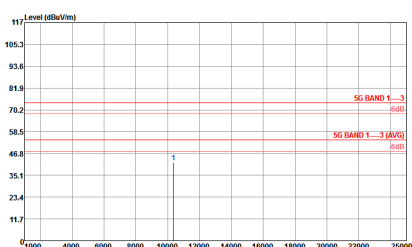
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Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m																																																																	
ANT	802.11a CH36 5180MHz																																																																	
1+2	Horizontal	Vertical																																																																
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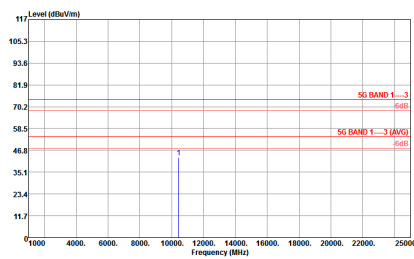
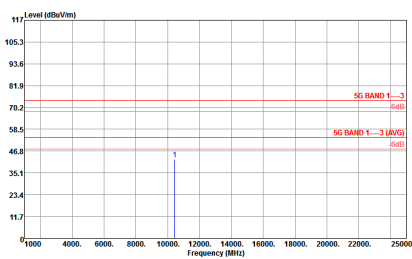
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Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

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Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

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ANT	802.11ac VHT40 CH38 5190MHz																																																																	
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WIFI	Band 1 5150~5250MHz Harmonic @ 3m																																																																											
ANT	802.11ac VHT40 CH46 5230MHz																																																																											
1+2	Horizontal					Vertical																																																																						
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Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m																																																																			
ANT	802.11ac VHT80 CH42 5210MHz																																																																			
1+2	Horizontal	Vertical																																																																		
Peak	Site : 83CH3-K5 Condition : SG BAND 1-3 3m HF ANT-2015813-91280 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 10429.00</td><td>42.29</td><td>-31.71</td><td>74.00</td><td>49.51</td><td>38.05</td><td>11.88</td><td>57.15</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg			1 10429.00	42.29	-31.71	74.00	49.51	38.05	11.88	57.15	100	360 Peak	HORIZONTAL	Site : 83CH3-K5 Condition : SG BAND 1-3 3m HF ANT-2015813-91280 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 10429.00</td><td>42.39</td><td>-31.61</td><td>74.00</td><td>49.61</td><td>38.05</td><td>11.88</td><td>57.15</td><td>100</td><td>0 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg			1 10429.00	42.39	-31.61	74.00	49.61	38.05	11.88	57.15	100	0 Peak	VERTICAL
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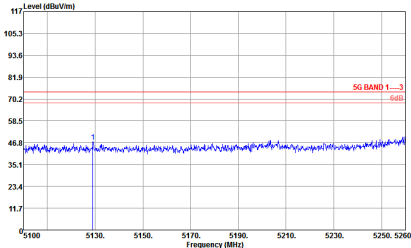
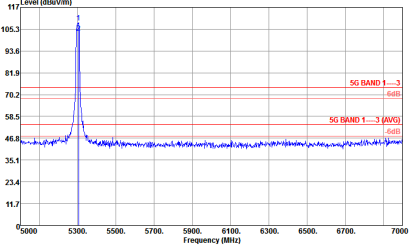
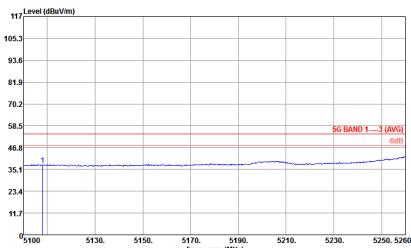
Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m																																																																															
ANT	802.11a CH52 5260MHz - L																																																																															
1+2	Horizontal	Fundamental																																																																														
Peak	Site Condition : 83CH03-K5 : 5G BAND 1----3 3m HF ANT-2015813-91280 HORIZONTAL : BW:1000.000KHz VSW:1.000KHz SMT:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>5147.28</td><td>46.53</td><td>-27.47</td><td>74.00</td><td>43.38</td><td>31.84</td><td>7.92</td><td>36.53</td><td>323</td><td>98 Peak</td><td>HORIZONTAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5147.28	46.53	-27.47	74.00	43.38	31.84	7.92	36.53	323	98 Peak	HORIZONTAL	Site Condition : 83CH03-K5 : 5G BAND 1----3 3m HF ANT-2015813-91280 HORIZONTAL : BW:1000.000KHz VSW:1.000KHz SMT:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>5256.00</td><td>185.94</td><td></td><td>185.48</td><td>31.88</td><td>8.88</td><td>36.58</td><td>323</td><td>98 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>5258.00</td><td>181.74</td><td></td><td>180.28</td><td>31.88</td><td>8.88</td><td>36.58</td><td>323</td><td>98 Average</td><td>HORIZONTAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5256.00	185.94		185.48	31.88	8.88	36.58	323	98 Peak	HORIZONTAL	2	5258.00	181.74		180.28	31.88	8.88	36.58	323	98 Average	HORIZONTAL
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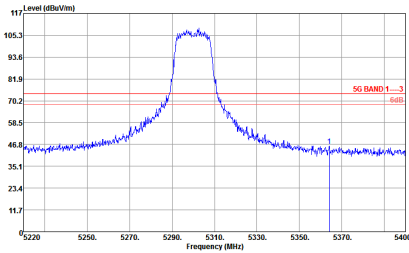
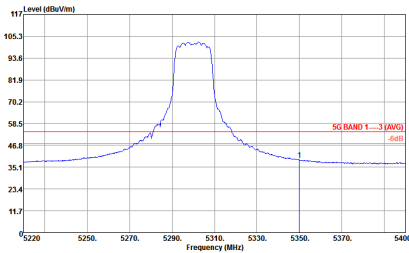


WIFI	Band 2 5250~5350MHz Band Edge @ 3m																																																																																							
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Peak	 Site : 83CH83-KS Condition : SG BAND 1----3 3m HF ANT-2015813-91200 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5129.12</td><td>47.20</td><td>-26.00</td><td>74.00</td><td>43.99</td><td>31.04</td><td>7.91</td><td>36.54</td><td>333</td><td>96 Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5129.12	47.20	-26.00	74.00	43.99	31.04	7.91	36.54	333	96 Peak	HORIZONTAL	 Site : 83CH83-KS Condition : SG BAND 1----3 3m HF ANT-2015813-91200 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5304.00</td><td>100.81</td><td></td><td>105.21</td><td>31.69</td><td>8.21</td><td>36.50</td><td>333</td><td>96 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>5304.00</td><td>103.26</td><td></td><td>99.66</td><td>31.69</td><td>8.21</td><td>36.50</td><td>333</td><td>96 Average</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5304.00	100.81		105.21	31.69	8.21	36.50	333	96 Peak	HORIZONTAL	2	5304.00	103.26		99.66	31.69	8.21	36.50	333	96 Average	HORIZONTAL
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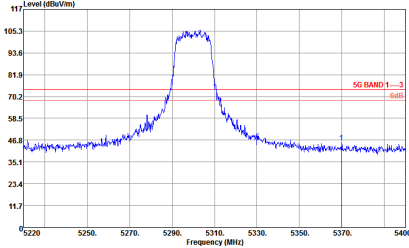
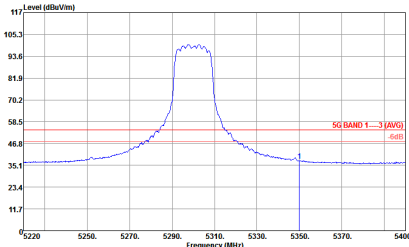


WIFI	Band 2 5250~5350MHz Band Edge @ 3m																																											
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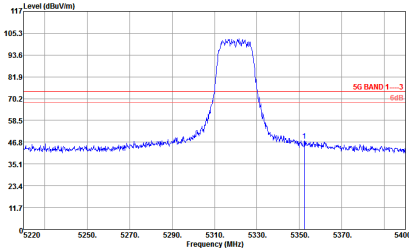
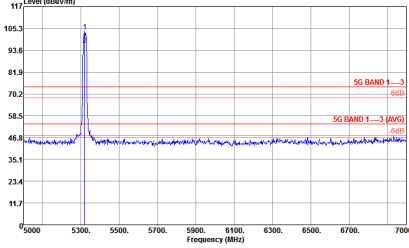
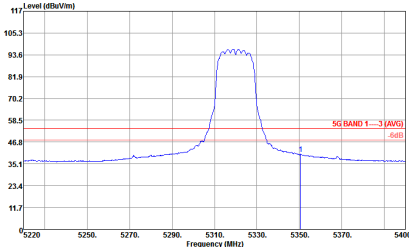


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1	5320.00	105.79		102.13	31.90	8.26	36.50	317	95 Peak	HORIZONTAL																																																																						
2	5320.00	99.44		95.78	31.90	8.26	36.50	317	95 Average	HORIZONTAL																																																																						
Avg.	Site : 83CH03-KS Condition : 5G BAND 1-3 3m HF ANT-2015813-912ND HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>5350.01</td><td>43.61</td><td>-10.39</td><td>54.00</td><td>39.86</td><td>31.91</td><td>8.34</td><td>36.50</td><td>317</td><td>95 Average</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	5350.01	43.61	-10.39	54.00	39.86	31.91	8.34	36.50	317	95 Average	HORIZONTAL																																													
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																					
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1	5350.01	43.61	-10.39	54.00	39.86	31.91	8.34	36.50	317	95 Average	HORIZONTAL																																																																					



WIFI	Band 2 5250~5350MHz Band Edge @ 3m																																																																																								
ANT	802.11a CH64 5320MHz																																																																																								
1+2	Vertical										Fundamental																																																																														
Peak	 Site : 83CH83-KS Condition : 5G BAND 1----3 3m HF ANT-2015813-91280 VERTICAL : RBW:1000.000KHz VSW:1000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5352.48</td><td>47.69</td><td>-26.31</td><td>74.00</td><td>43.94</td><td>31.91</td><td>8.34</td><td>36.50</td><td>297</td><td>166 Peak</td><td>VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5352.48	47.69	-26.31	74.00	43.94	31.91	8.34	36.50	297	166 Peak	VERTICAL	 Site : 83CH83-KS Condition : 5G BAND 1----3 3m HF ANT-2015813-91280 VERTICAL : RBW:1000.000KHz VSW:1000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5318.00</td><td>183.78</td><td></td><td>180.12</td><td>31.90</td><td>8.25</td><td>36.50</td><td>297</td><td>166 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>5312.00</td><td>96.47</td><td></td><td>92.81</td><td>31.90</td><td>8.26</td><td>36.50</td><td>297</td><td>166 Average</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5318.00	183.78		180.12	31.90	8.25	36.50	297	166 Peak	VERTICAL	2	5312.00	96.47		92.81	31.90	8.26	36.50	297	166 Average	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																														
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1	5352.48	47.69	-26.31	74.00	43.94	31.91	8.34	36.50	297	166 Peak	VERTICAL																																																																														
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2	5312.00	96.47		92.81	31.90	8.26	36.50	297	166 Average	VERTICAL																																																																															
Avg.	 Site : 83CH83-KS Condition : 5G BAND 1----3 (AVG) 3m HF ANT-2015813-91280 VERTICAL : RBW:1000.000KHz VSW:1.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>5350.50</td><td>48.27</td><td>-13.73</td><td>54.00</td><td>36.52</td><td>31.91</td><td>8.34</td><td>36.50</td><td>297</td><td>166 Average</td><td>VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5350.50	48.27	-13.73	54.00	36.52	31.91	8.34	36.50	297	166 Average	VERTICAL																																													
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																														
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