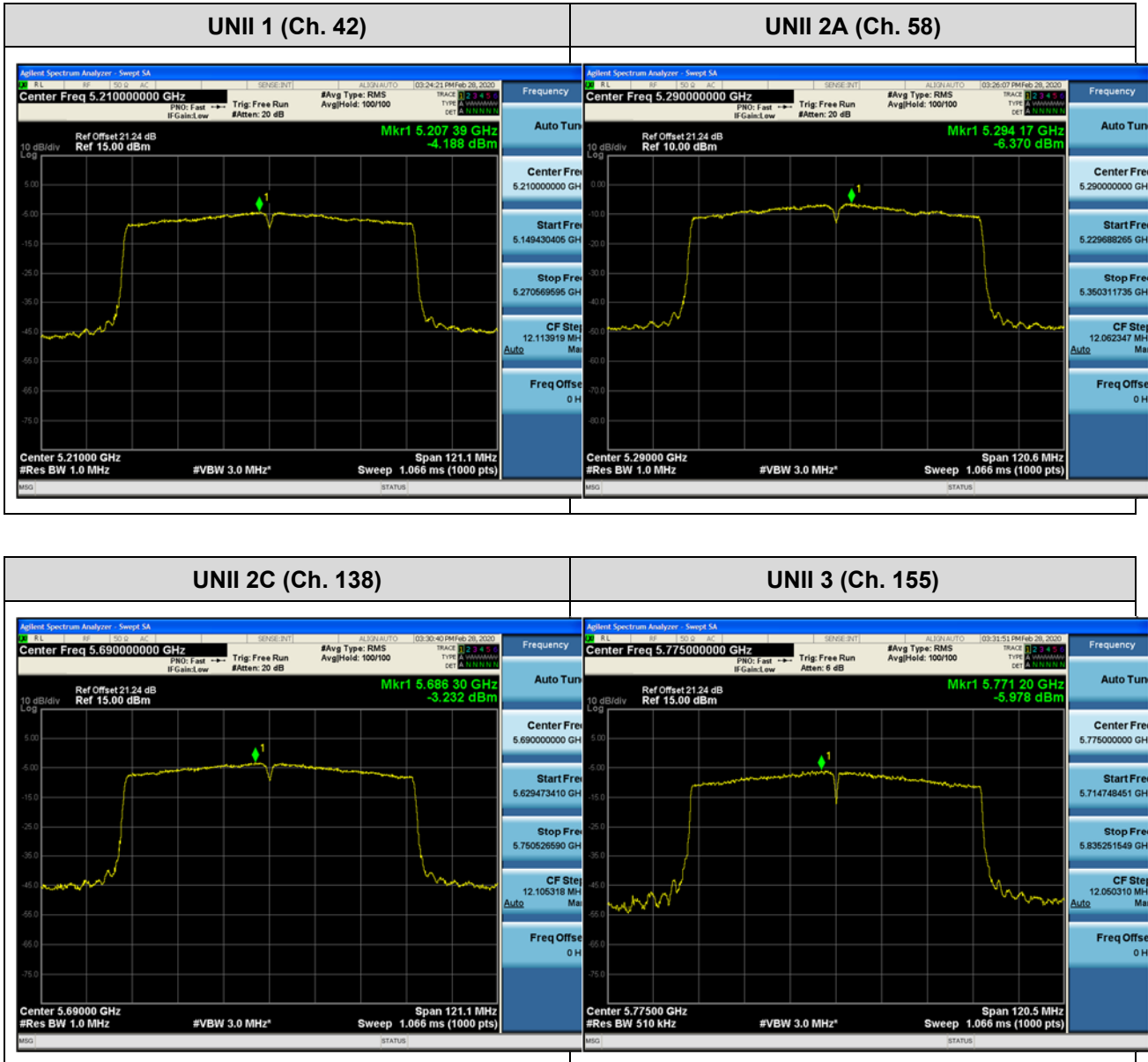


☐ Test Plots(802.11ac(VHT80))

Note:

In order to simplify the report, attached plots were only channel of highest power.



10.6 FREQUENCY STABILITY.

10.6.1 80MHz BW

Startup after the EUT is energized

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210029.54	29.54
100%		-30	5210052.95	52.95
100%		-20	5210045.35	45.35
100%		-10	5210040.01	40.01
100%		0	5210036.39	36.39
100%		+10	5210033.48	33.48
100%		+30	5210031.62	31.62
100%		+40	5210041.91	41.91
100%		+50	5210045.43	45.43
HIGH		4.35	+20	5210043.69
LOW	3.60	+20	5210046.00	46.00

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290028.89	28.89
100%		-30	5290053.19	53.19
100%		-20	5290046.21	46.21
100%		-10	5290040.63	40.63
100%		0	5290036.55	36.55
100%		+10	5290032.99	32.99
100%		+30	5290032.70	32.7
100%		+40	5290040.76	40.76
100%		+50	5290046.50	46.50
HIGH		4.35	+20	5290045.91
LOW	3.60	+20	5290046.31	46.31

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530030.27	30.27
100%		-30	5530052.88	52.88
100%		-20	5530046.14	46.14
100%		-10	5530039.44	39.44
100%		0	5530034.45	34.45
100%		+10	5530031.90	31.9
100%		+30	5530032.29	32.29
100%		+40	5530042.64	42.64
100%		+50	5530046.72	46.72
HIGH		4.35	+20	5530044.25
LOW	3.60	+20	5530047.36	47.36

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775031.08	31.08
100%		-30	5775052.46	52.46
100%		-20	5775045.02	45.02
100%		-10	5775039.08	39.08
100%		0	5775035.64	35.64
100%		+10	5775033.08	33.08
100%		+30	5775031.28	31.28
100%		+40	5775040.08	40.08
100%		+50	5775044.65	44.65
HIGH		4.35	+20	5775044.74
LOW	3.60	+20	5775046.50	46.50

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

2 minutes after the EUT is energized

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210035.17	35.17
100%		-30	5210052.79	52.79
100%		-20	5210044.85	44.85
100%		-10	5210038.25	38.25
100%		0	5210034.36	34.36
100%		+10	5210030.45	30.45
100%		+30	5210032.15	32.15
100%		+40	5210042.22	42.22
100%		+50	5210047.54	47.54
HIGH		4.35	+20	5210045.49
LOW	3.60	+20	5210047.50	47.50

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290032.64	32.64
100%		-30	5290052.39	52.39
100%		-20	5290045.11	45.11
100%		-10	5290039.91	39.91
100%		0	5290035.04	35.04
100%		+10	5290031.79	31.79
100%		+30	5290031.27	31.27
100%		+40	5290040.59	40.59
100%		+50	5290045.59	45.59
HIGH		4.35	+20	5290045.17
LOW	3.60	+20	5290047.91	47.91

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530033.32	33.32
100%		-30	5530051.75	51.75
100%		-20	5530043.67	43.67
100%		-10	5530037.42	37.42
100%		0	5530032.53	32.53
100%		+10	5530029.32	29.32
100%		+30	5530031.16	31.16
100%		+40	5530040.08	40.08
100%		+50	5530043.47	43.47
HIGH		4.35	+20	5530043.56
LOW	3.60	+20	5530048.02	48.02

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775035.92	35.92
100%		-30	5775052.49	52.49
100%		-20	5775046.03	46.03
100%		-10	5775039.84	39.84
100%		0	5775036.39	36.39
100%		+10	5775033.26	33.26
100%		+30	5775031.68	31.68
100%		+40	5775039.74	39.74
100%		+50	5775043.98	43.98
HIGH		4.35	+20	5775044.41
LOW	3.60	+20	5775047.65	47.65

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

5 minutes after the EUT is energized

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210032.46	32.46
100%		-30	5210051.73	51.73
100%		-20	5210044.51	44.51
100%		-10	5210038.85	38.85
100%		0	5210033.99	33.99
100%		+10	5210030.68	30.68
100%		+30	5210032.63	32.63
100%		+40	5210041.51	41.51
100%		+50	5210045.45	45.45
HIGH		4.35	+20	5210044.11
LOW	3.60	+20	5210046.47	46.47

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290033.16	33.16
100%		-30	5290052.55	52.55
100%		-20	5290045.59	45.59
100%		-10	5290039.87	39.87
100%		0	5290036.63	36.63
100%		+10	5290034.16	34.16
100%		+30	5290032.48	32.48
100%		+40	5290042.28	42.28
100%		+50	5290046.38	46.38
HIGH		4.35	+20	5290044.27
LOW	3.60	+20	5290048.29	48.29

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530036.42	36.42
100%		-30	5530052.99	52.99
100%		-20	5530046.01	46.01
100%		-10	5530040.45	40.45
100%		0	5530037.03	37.03
100%		+10	5530034.05	34.05
100%		+30	5530031.40	31.40
100%		+40	5530040.93	40.93
100%		+50	5530046.33	46.33
HIGH		4.35	+20	5530045.57
LOW	3.60	+20	5530046.63	46.63

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775033.74	33.74
100%		-30	5775052.78	52.78
100%		-20	5775045.93	45.93
100%		-10	5775040.33	40.33
100%		0	5775036.98	36.98
100%		+10	5775033.36	33.36
100%		+30	5775031.56	31.56
100%		+40	5775039.96	39.96
100%		+50	5775043.42	43.42
HIGH		4.35	+20	5775043.63
LOW	3.60	+20	5775048.33	48.33

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

10 minutes after the EUT is energized

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210036.11	36.11
100%		-30	5210052.83	52.83
100%		-20	5210045.66	45.66
100%		-10	5210040.20	40.20
100%		0	5210035.96	35.96
100%		+10	5210032.20	32.20
100%		+30	5210032.73	32.73
100%		+40	5210040.22	40.22
100%		+50	5210045.27	45.27
HIGH		4.35	+20	5210045.22
LOW	3.60	+20	5210047.44	47.44

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290035.18	35.18
100%		-30	5290053.23	53.23
100%		-20	5290046.63	46.63
100%		-10	5290040.76	40.76
100%		0	5290037.30	37.30
100%		+10	5290034.93	34.93
100%		+30	5290031.14	31.14
100%		+40	5290040.23	40.23
100%		+50	5290044.96	44.96
HIGH		4.35	+20	5290044.90
LOW	3.60	+20	5290045.68	45.68

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530031.45	31.45
100%		-30	5530051.91	51.91
100%		-20	5530044.07	44.07
100%		-10	5530038.55	38.55
100%		0	5530034.54	34.54
100%		+10	5530031.03	31.03
100%		+30	5530030.96	30.96
100%		+40	5530039.90	39.90
100%		+50	5530045.23	45.23
HIGH		4.35	+20	5530045.50
LOW	3.60	+20	5530046.27	46.27

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775033.46	33.46
100%		-30	5775052.47	52.47
100%		-20	5775044.89	44.89
100%		-10	5775039.03	39.03
100%		0	5775035.83	35.83
100%		+10	5775033.41	33.41
100%		+30	5775031.62	31.62
100%		+40	5775041.17	41.17
100%		+50	5775046.99	46.99
HIGH		4.35	+20	5775045.99
LOW	3.60	+20	5775047.00	47.00

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

10.7 STRADDLE CHANNEL

10.7.1 26dB Bandwidth

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11a	UNII 2C	5720	144	5710.24	14.76
802.11n(HT20)				5710.00	15.00
802.11ac(VHT20)				5710.08	14.92
802.11a	UNII 3	5720	144	5729.88	4.88
802.11n(HT20)				5730.04	5.04
802.11ac(VHT20)				5729.96	4.96

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11n(HT40)	UNII 2C	5710	142	5689.84	35.16
802.11ac(VHT40)				5690.16	34.84
802.11n(HT40)	UNII 3	5710	142	5729.92	4.92
802.11ac(VHT40)				5730.16	5.16

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11ac(VHT80)	UNII 2C	5690	138	5649.68	75.32
	UNII 3	5690	138	5730.44	5.44

Note:

[UNII 2C] 26dB Bandwidth = 5725MHz - Measured Frequency[MHz]

[UNII 3C] 26dB Bandwidth = Measured Frequency[MHz] -5725MHz

Test Plots (26dB Bandwidth)

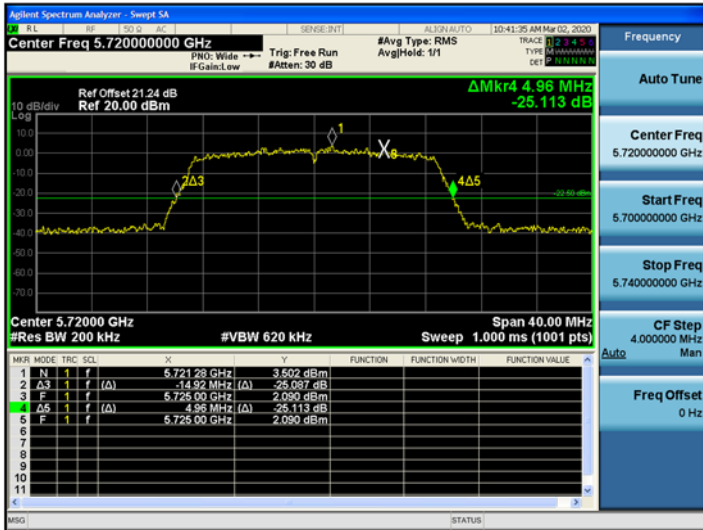
802.11a UNII Band



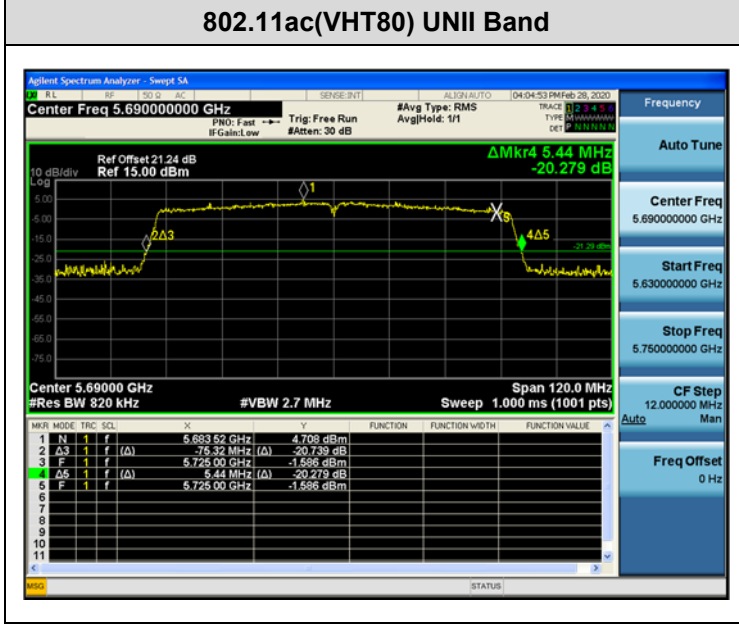
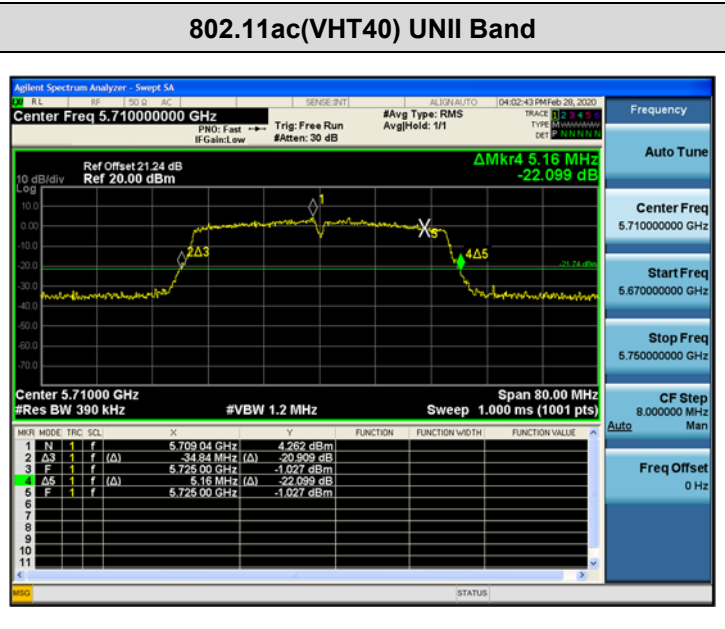
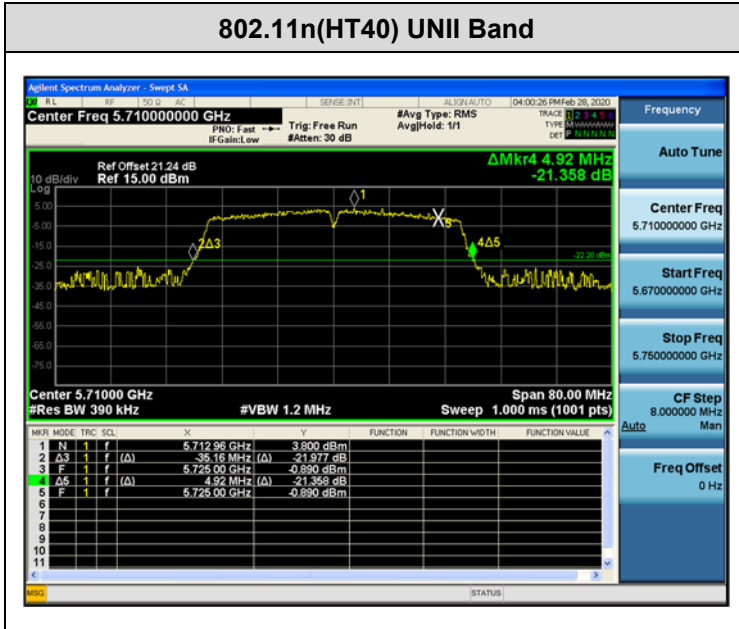
802.11n(HT20) UNII Band



802.11ac(VHT20) UNII Band



☐ Test Plots (26dB Bandwidth)



10.7.2 6dB Bandwidth

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5728.15	3.15	> 0.5
802.11n(HT20)				5727.57	2.57	> 0.5
802.11ac(VHT20)				5727.61	2.61	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.63	2.63	> 0.5
802.11ac(VHT40)				5727.62	2.62	> 0.5

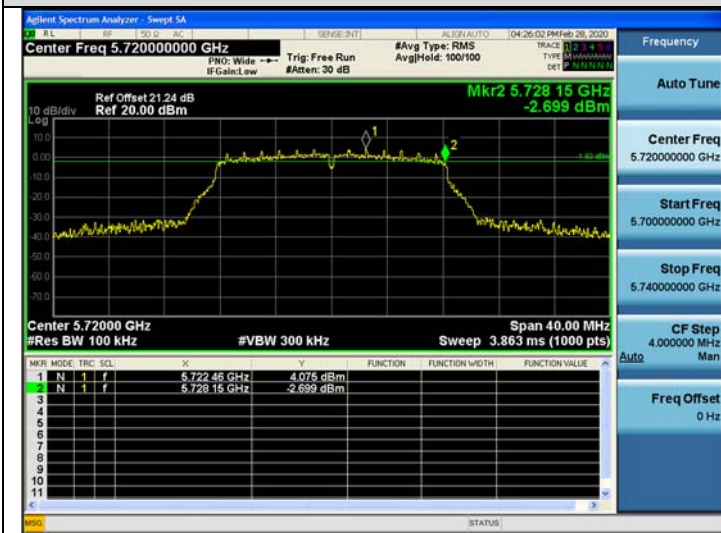
Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5727.65	2.65	> 0.5

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725MHz

☐ Test Plots(UNII 3 Band 6dB Bandwidth)

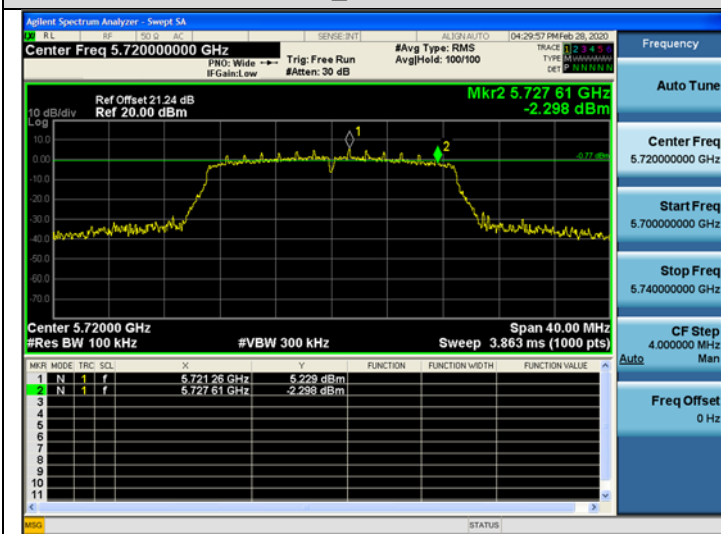
802.11a CH.144



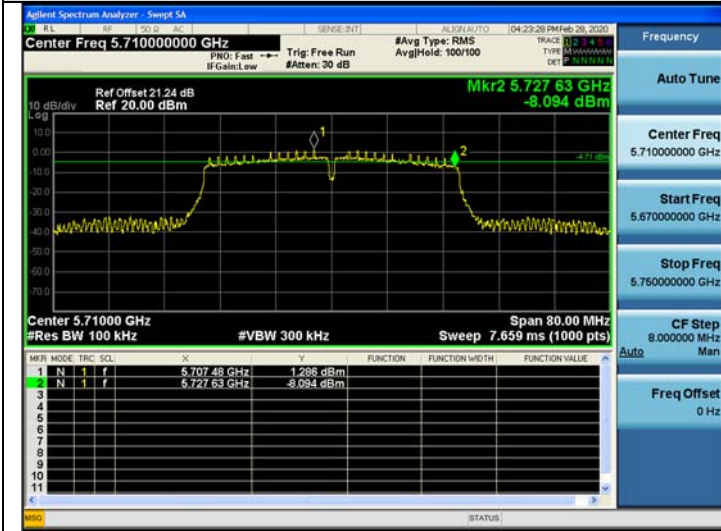
802.11n_HT20 CH.144



802.11ac_VHT20 CH.144



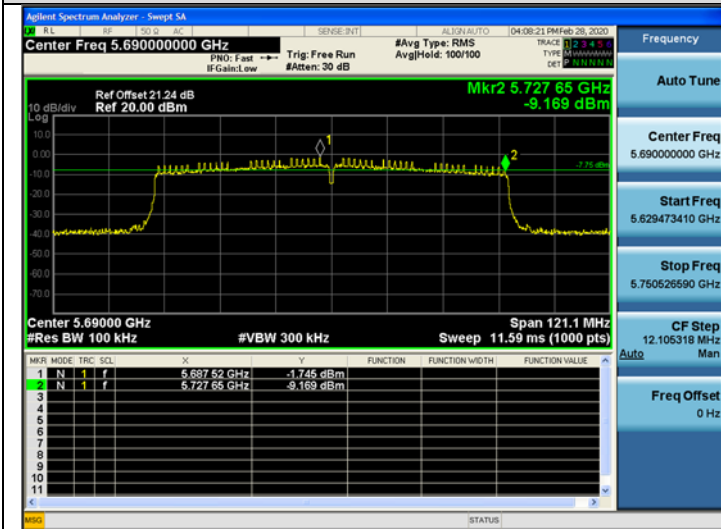
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

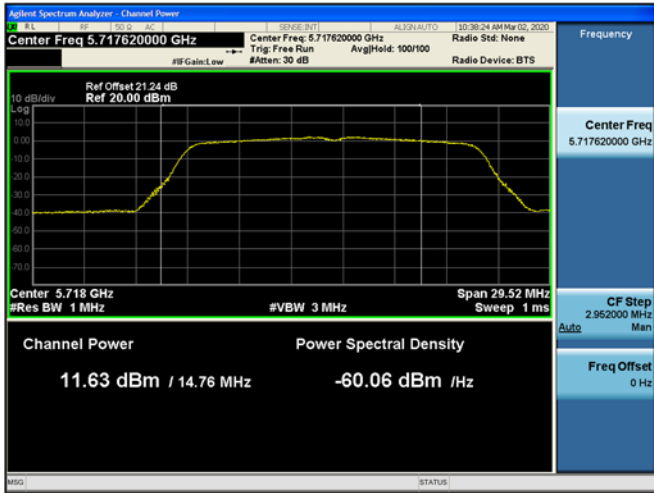
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	11.63	0.713	12.34	22.69
802.11n(HT20)			11.52	0.522	12.04	22.76
802.11ac(VHT20)			11.67	0.405	12.08	22.74
802.11a	5720 (UNII 3 Band)	144	3.98	0.713	4.69	30.00
802.11n(HT20)			4.28	0.522	4.80	30.00
802.11ac(VHT20)			4.46	0.405	4.87	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	13.23	0.288	13.52	23.98
802.11ac(VHT40)			13.43	0.288	13.72	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	0.71	0.288	1.00	30.00
802.11ac(VHT40)			0.93	0.288	1.22	30.00

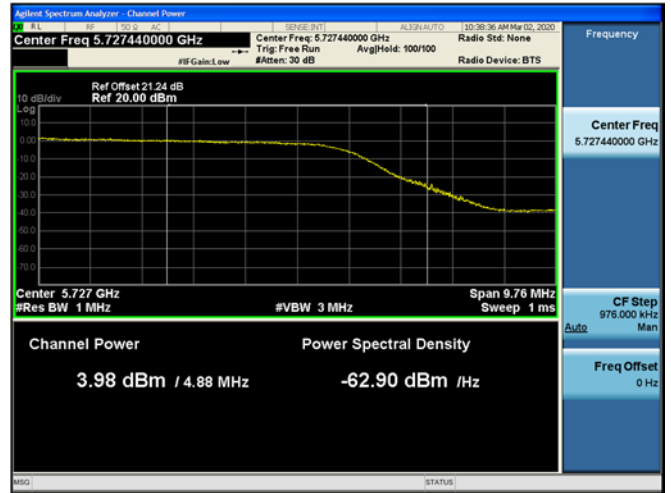
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	12.92	0.553	13.47	23.98
	5690 (UNII 3 Band)	138	-2.84	0.553	-2.29	30.00

☐ Test Plots

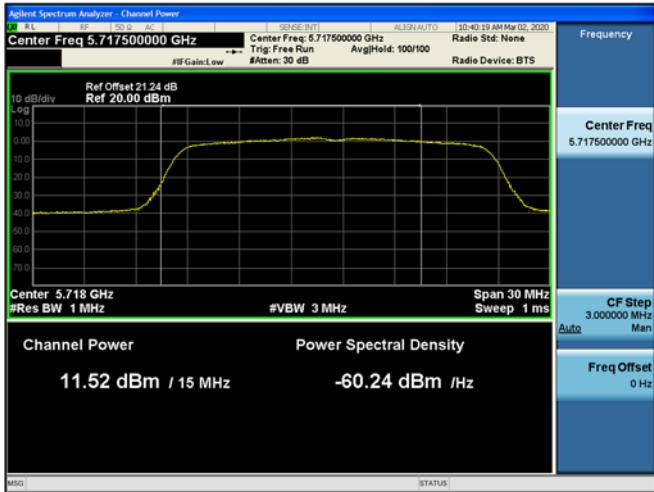
802.11a UNII 2C Band



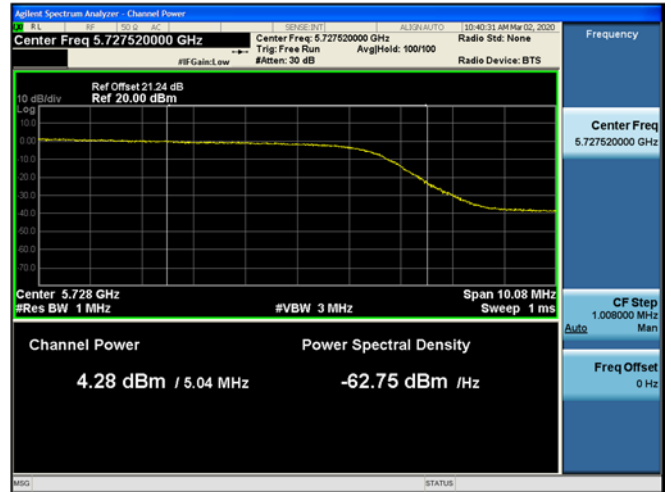
802.11a UNII 3 Band



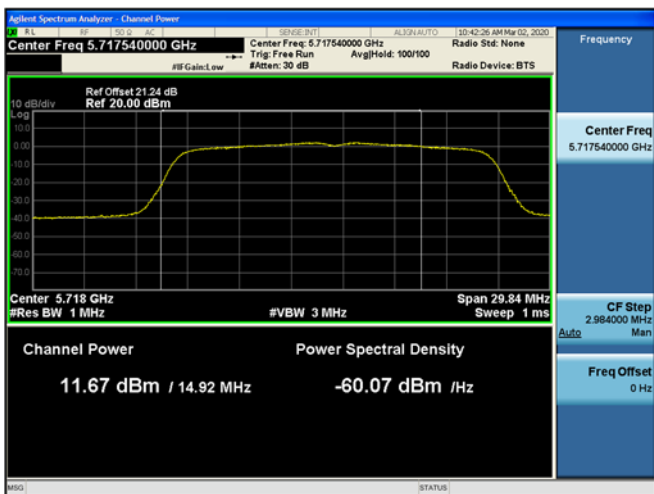
802.11n(HT20) UNII 2C Band



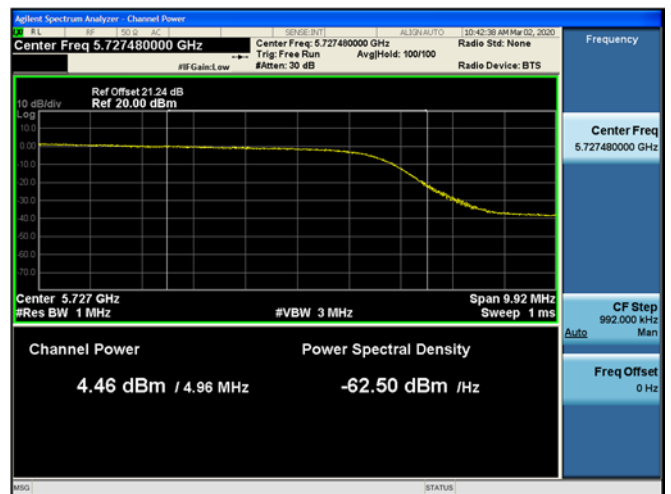
802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band

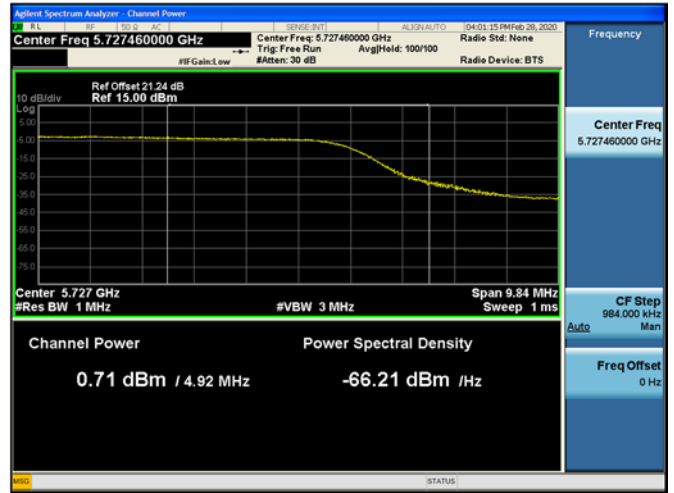
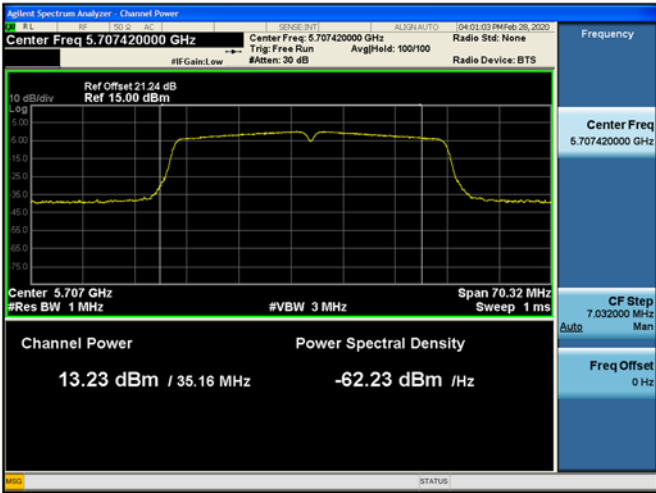


802.11ac(VHT20) UNII 3 Band



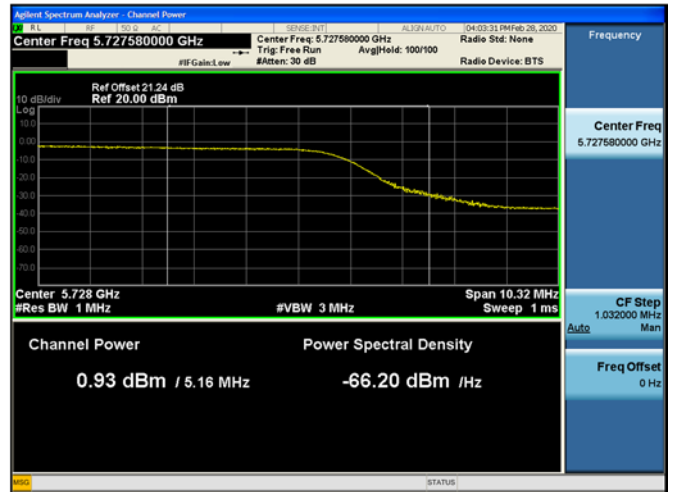
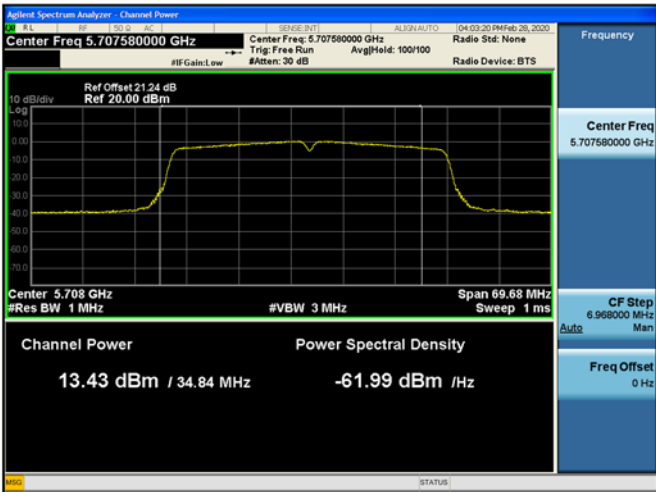
802.11n(HT40) UNII 2C Band

802.11n(HT40) UNII 3 Band



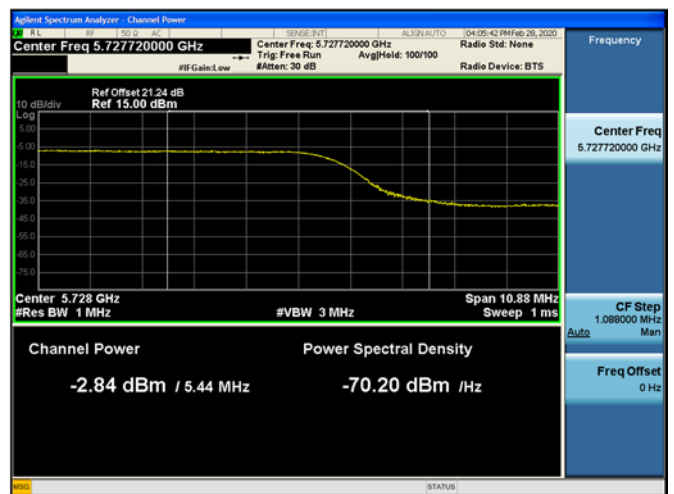
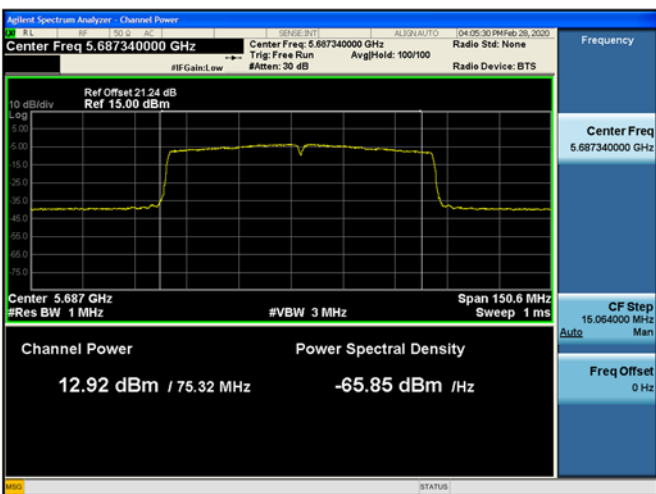
802.11ac(VHT40) UNII 2C Band

802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band

802.11ac(VHT80) UNII 3 Band



10.7.4 Power Spectral Density

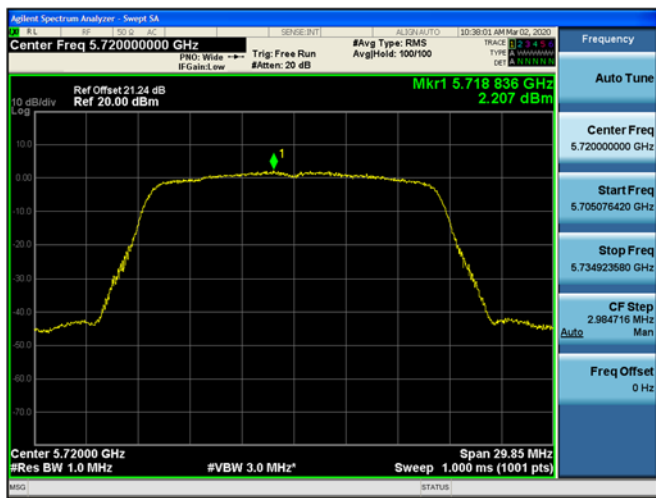
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	2.207	0.713	2.920	11 dBm/MHz
802.11n(HT20)			2.031	0.522	2.553	
802.11ac(VHT20)			2.212	0.405	2.617	
802.11a	5720 (UNII 3 Band)	144	-2.436	0.713	-1.723	30 dBm/ 500kHz
802.11n(HT20)			-2.533	0.522	-2.011	
802.11ac(VHT20)			-2.482	0.405	-2.077	

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	0.331	0.288	0.619	11 dBm/MHz
802.11ac(VHT40)			0.062	0.288	0.350	
802.11n(HT40)	5710 (UNII 3 Band)	142	-6.452	0.288	-6.164	30 dBm/50 0kHz
802.11ac(VHT40)			-6.432	0.288	-6.144	

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-3.126	0.553	-2.573	11 dBm/MHz
	5690 (UNII 3 Band)	138	-10.300	0.553	-9.747	30 dBm/50 0kHz

☐ Test Plots

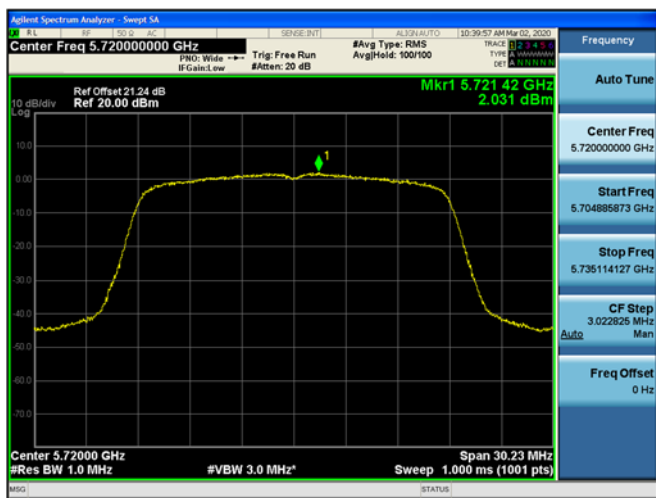
802.11a UNII 2C Band



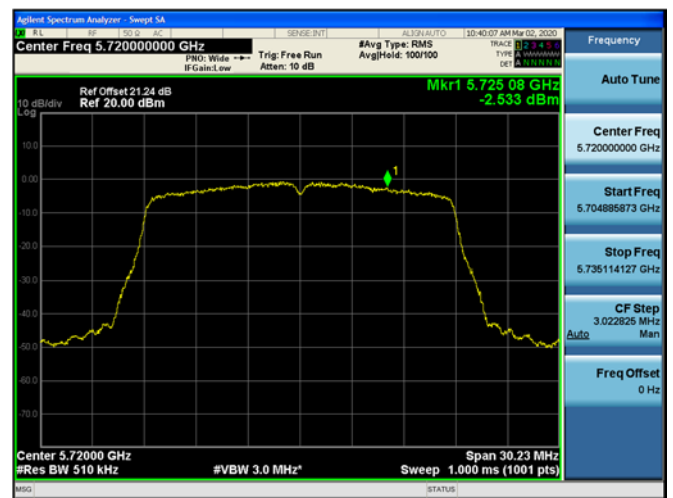
802.11a UNII 3 Band



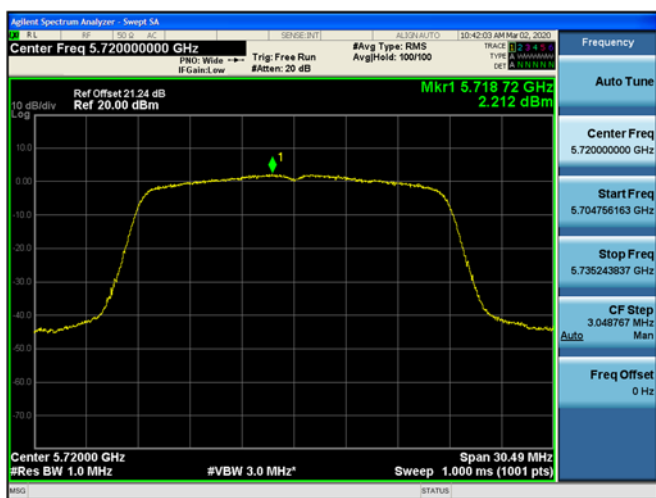
802.11n(HT20) UNII 2C Band



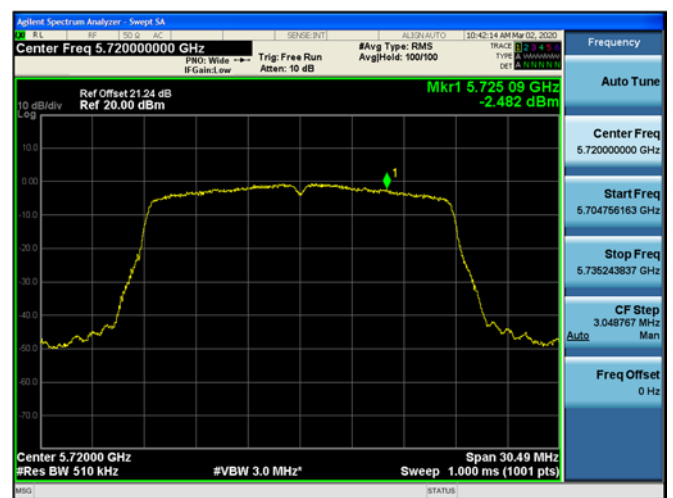
802.11n(HT20) UNII 3 Band



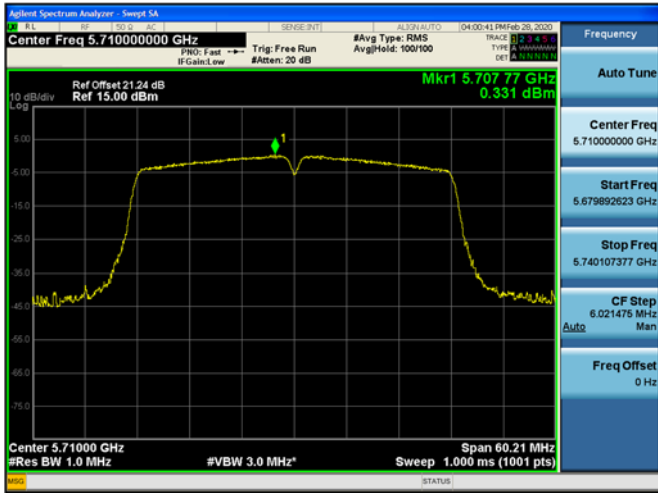
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



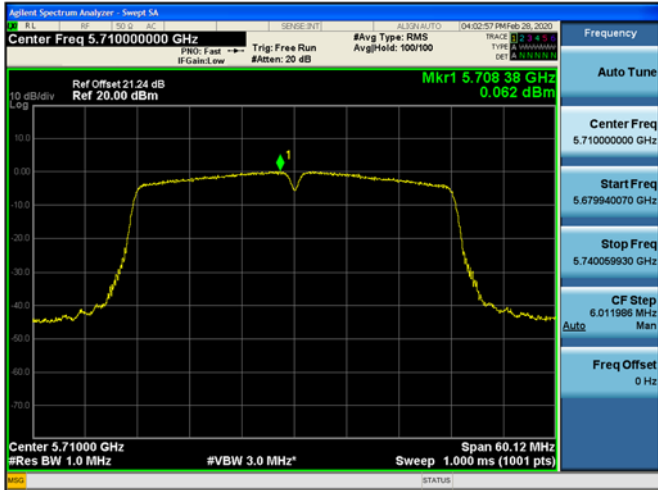
802.11n(HT40) UNII 2C Band



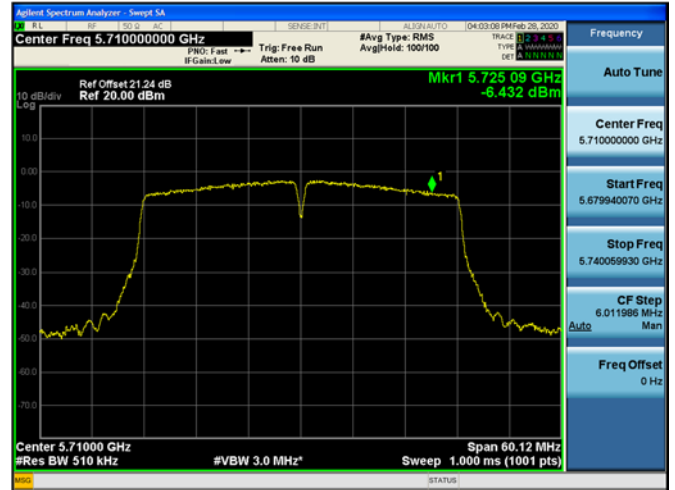
802.11n(HT40) UNII 3 Band



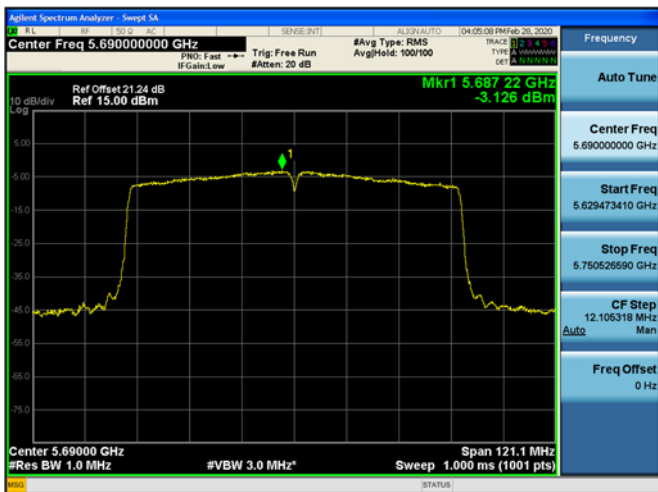
802.11ac(VHT40) UNII 2C Band



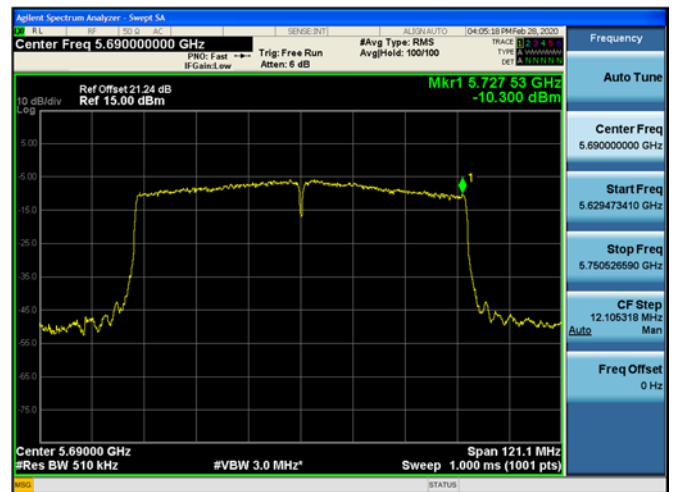
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.8 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40\log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode

Frequency Range : Above 1 GHz

Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5180 MHz
 Channel No. 36 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	49.17	9.17	V	58.34	68.20	9.86	PK
15540	45.10	13.42	V	58.52	73.98	15.46	PK
15540	31.57	13.42	V	44.99	53.98	8.99	AV
10360	48.02	9.17	H	57.19	68.20	11.01	PK
15540	44.54	13.42	H	57.96	73.98	16.02	PK
15540	31.50	13.42	H	44.92	53.98	9.06	AV

Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5200 MHz
 Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	49.66	9.57	V	59.23	68.20	8.97	PK
15600	44.15	13.16	V	57.31	73.98	16.67	PK
15600	30.80	13.16	V	43.96	53.98	10.02	AV
10400	48.31	9.57	H	57.88	68.20	10.32	PK
15600	43.34	13.16	H	56.50	73.98	17.48	PK
15600	30.75	13.16	H	43.91	53.98	10.07	AV

Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5240 MHz
 Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	49.06	9.94	V	59.00	68.20	9.20	PK
15720	43.69	13.28	V	56.97	73.98	17.01	PK
15720	29.74	13.28	V	43.02	53.98	10.96	AV
10480	47.70	9.94	H	57.64	68.20	10.56	PK
15720	43.07	13.28	H	56.35	73.98	17.63	PK
15720	29.69	13.28	H	42.97	53.98	11.01	AV

Band : UNII 2A
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5260 MHz
 Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	51.01	9.96	V	60.97	68.20	7.23	PK
15780	43.02	13.29	V	56.31	73.98	17.67	PK
15780	29.59	13.29	V	42.88	53.98	11.10	AV
10520	49.05	9.96	H	59.01	68.20	9.19	PK
15780	42.16	13.29	H	55.45	73.98	18.53	PK
15780	29.27	13.29	H	42.56	53.98	11.42	AV

Band : UNII 2A
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5300 MHz
 Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	50.16	10.34	V	60.50	73.98	13.48	PK
10600	32.64	10.34	V	42.98	53.98	11.00	AV
15900	43.88	13.19	V	57.07	73.98	16.91	PK
15900	30.17	13.19	V	43.36	53.98	10.62	AV
10600	49.13	10.34	H	59.47	73.98	14.51	PK
10600	32.44	10.34	H	42.78	53.98	11.20	AV
15900	43.32	13.19	H	56.51	73.98	17.47	PK
15900	30.02	13.19	H	43.21	53.98	10.77	AV

Band : UNII 2A
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	50.95	10.30	V	61.25	73.98	12.73	PK
10640	32.55	10.30	V	42.85	53.98	11.13	AV
15960	44.93	12.29	V	57.22	73.98	16.76	PK
15960	30.56	12.29	V	42.85	53.98	11.13	AV
10640	50.10	10.30	H	60.40	73.98	13.58	PK
10640	32.26	10.30	H	42.56	53.98	11.42	AV
15960	43.21	12.29	H	55.50	73.98	18.48	PK
15960	30.45	12.29	H	42.74	53.98	11.24	AV

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5500 MHz
 Channel No. 100 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	46.64	11.12	V	57.76	73.98	16.22	PK
11000	31.30	11.12	V	42.42	53.98	11.56	AV
16500	44.73	12.50	V	57.23	68.20	10.97	PK
11000	46.43	11.12	H	57.55	73.98	16.43	PK
11000	30.90	11.12	H	42.02	53.98	11.96	AV
16500	44.34	12.50	H	56.84	68.20	11.36	PK

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5600 MHz
 Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	44.77	11.12	V	55.89	73.98	18.09	PK
11200	30.69	11.12	V	41.81	53.98	12.17	AV
16800	44.87	13.64	V	58.51	68.20	9.69	PK
11200	43.17	11.12	H	54.29	73.98	19.69	PK
11200	29.49	11.12	H	40.61	53.98	13.37	AV
16800	44.72	13.64	H	58.36	68.20	9.84	PK

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	45.48	11.26	V	56.74	73.98	17.24	PK
11440	31.34	11.26	V	42.60	53.98	11.38	AV
17160	43.98	14.70	V	58.68	68.20	9.52	PK
11440	45.55	11.26	H	56.81	73.98	17.17	PK
11440	31.55	11.26	H	42.81	53.98	11.17	AV
17160	44.58	14.70	H	59.28	68.20	8.92	PK

Band : UNII 3
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5745MHz
 Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	42.19	11.54	V	53.73	73.98	20.25	PK
11490	29.10	11.54	V	40.64	53.98	13.34	AV
17235	42.98	15.28	V	58.26	68.20	9.94	PK
11490	42.65	11.54	H	54.19	73.98	19.79	PK
11490	29.17	11.54	H	40.71	53.98	13.27	AV
17235	43.52	15.28	H	58.80	68.20	9.40	PK

Band : UNII 3
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5785 MHz
 Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	41.96	10.94	V	52.90	73.98	21.08	PK
11570	29.21	10.94	V	40.15	53.98	13.83	AV
17355	44.12	15.94	V	60.06	68.20	8.14	PK
11570	43.07	10.94	H	54.01	73.98	19.97	PK
11570	29.50	10.94	H	40.44	53.98	13.54	AV
17355	44.33	15.94	H	60.27	68.20	7.93	PK

Band : UNII 3
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5825 MHz
 Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	43.55	10.39	V	53.94	73.98	20.04	PK
11650	29.50	10.39	V	39.89	53.98	14.09	AV
17475	43.92	17.24	V	61.16	68.20	7.04	PK
11650	43.73	10.39	H	54.12	73.98	19.86	PK
11650	29.59	10.39	H	39.98	53.98	14.00	AV
17475	44.86	17.24	H	62.10	68.20	6.10	PK

Report No.: HCT-RF-2003-FC005-R1

Band : UNII 1
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5180 MHz
 Channel No. 36 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	48.58	9.17	V	57.75	68.20	10.45	PK
15540	46.04	13.42	V	59.46	73.98	14.52	PK
15540	31.63	13.42	V	45.05	53.98	8.93	AV
10360	47.14	9.17	H	56.31	68.20	11.89	PK
15540	45.35	13.42	H	58.77	73.98	15.21	PK
15540	31.45	13.42	H	44.87	53.98	9.11	AV

Band : UNII 1
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5200 MHz
 Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	47.85	9.57	V	57.42	68.20	10.78	PK
15600	45.22	13.16	V	58.38	73.98	15.60	PK
15600	31.18	13.16	V	44.34	53.98	9.64	AV
10400	46.98	9.57	H	56.55	68.20	11.65	PK
15600	45.02	13.16	H	58.18	73.98	15.80	PK
15600	30.97	13.16	H	44.13	53.98	9.85	AV

Band : UNII 1
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5240 MHz
 Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	47.99	9.94	V	57.93	68.20	10.27	PK
15720	44.18	13.28	V	57.46	73.98	16.52	PK
15720	30.18	13.28	V	43.46	53.98	10.52	AV
10480	46.55	9.94	H	56.49	68.20	11.71	PK
15720	43.61	13.28	H	56.89	73.98	17.09	PK
15720	30.12	13.28	H	43.40	53.98	10.58	AV

Band : UNII 2A
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5260 MHz
 Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	49.38	9.96	V	59.34	68.20	8.86	PK
15780	43.17	13.29	V	56.46	73.98	17.52	PK
15780	29.23	13.29	V	42.52	53.98	11.46	AV
10520	48.79	9.96	H	58.75	68.20	9.45	PK
15780	42.86	13.29	H	56.15	73.98	17.83	PK
15780	29.18	13.29	H	42.47	53.98	11.51	AV

Band : UNII 2A
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5300 MHz
 Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	49.66	10.34	V	60.00	73.98	13.98	PK
10600	32.57	10.34	V	42.91	53.98	11.07	AV
15900	43.63	13.19	V	56.82	73.98	17.16	PK
15900	30.07	13.19	V	43.26	53.98	10.72	AV
10600	48.86	10.34	H	59.20	73.98	14.78	PK
10600	31.46	10.34	H	41.80	53.98	12.18	AV
15900	42.38	13.19	H	55.57	73.98	18.41	PK
15900	30.00	13.19	H	43.19	53.98	10.79	AV

Band : UNII 2A
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	50.88	10.30	V	61.18	73.98	12.80	PK
10640	32.44	10.30	V	42.74	53.98	11.24	AV
15960	44.37	12.29	V	56.66	73.98	17.32	PK
15960	30.54	12.29	V	42.83	53.98	11.15	AV
10640	49.41	10.30	H	59.71	73.98	14.27	PK
10640	32.26	10.30	H	42.56	53.98	11.42	AV
15960	44.26	12.29	H	56.55	73.98	17.43	PK
15960	30.32	12.29	H	42.61	53.98	11.37	AV

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5500 MHz
 Channel No. 100 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	44.55	11.12	V	55.67	73.98	18.31	PK
11000	30.72	11.12	V	41.84	53.98	12.14	AV
16500	44.27	12.50	V	56.77	68.20	11.43	PK
11000	43.92	11.12	H	55.04	73.98	18.94	PK
11000	30.34	11.12	H	41.46	53.98	12.52	AV
16500	44.18	12.50	H	56.68	68.20	11.52	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5600 MHz
 Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	44.21	11.12	V	55.33	73.98	18.65	PK
11200	30.76	11.12	V	41.88	53.98	12.10	AV
16800	45.19	13.64	V	58.83	68.20	9.37	PK
11200	43.65	11.12	H	54.77	73.98	19.21	PK
11200	30.58	11.12	H	41.70	53.98	12.28	AV
16800	44.82	13.64	H	58.46	68.20	9.74	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	43.55	11.26	V	54.81	73.98	19.17	PK
11440	30.82	11.26	V	42.08	53.98	11.90	AV
17160	44.05	14.70	V	58.75	68.20	9.45	PK
11440	45.10	11.26	H	56.36	73.98	17.62	PK
11440	30.99	11.26	H	42.25	53.98	11.73	AV
17160	44.50	14.70	H	59.20	68.20	9.00	PK

Band : UNII 3
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5745MHz
 Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	42.26	11.54	V	53.80	73.98	20.18	PK
11490	28.80	11.54	V	40.34	53.98	13.64	AV
17235	43.33	15.28	V	58.61	68.20	9.59	PK
11490	42.88	11.54	H	54.42	73.98	19.56	PK
11490	28.93	11.54	H	40.47	53.98	13.51	AV
17235	43.76	15.28	H	59.04	68.20	9.16	PK

Band : UNII 3
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5785 MHz
 Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	42.06	10.94	V	53.00	73.98	20.98	PK
11570	29.07	10.94	V	40.01	53.98	13.97	AV
17355	44.06	15.94	V	60.00	68.20	8.20	PK
11570	43.31	10.94	H	54.25	73.98	19.73	PK
11570	29.27	10.94	H	40.21	53.98	13.77	AV
17355	44.32	15.94	H	60.26	68.20	7.94	PK

Band : UNII 3
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5825 MHz
 Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	42.47	10.39	V	52.86	73.98	21.12	PK
11650	29.53	10.39	V	39.92	53.98	14.06	AV
17475	44.03	17.24	V	61.27	68.20	6.93	PK
11650	43.39	10.39	H	53.78	73.98	20.20	PK
11650	29.64	10.39	H	40.03	53.98	13.95	AV
17475	44.57	17.24	H	61.81	68.20	6.39	PK

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Band : UNII 1
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5180 MHz
 Channel No. 36 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	47.86	9.17	V	57.03	68.20	11.17	PK
15540	45.51	13.42	V	58.93	73.98	15.05	PK
15540	31.64	13.42	V	45.06	53.98	8.92	AV
10360	46.12	9.17	H	55.29	68.20	12.91	PK
15540	44.57	13.42	H	57.99	73.98	15.99	PK
15540	31.34	13.42	H	44.76	53.98	9.22	AV

Band : UNII 1
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5200 MHz
 Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	48.13	9.57	V	57.70	68.20	10.50	PK
15600	44.63	13.16	V	57.79	73.98	16.19	PK
15600	31.18	13.16	V	44.34	53.98	9.64	AV
10400	46.82	9.57	H	56.39	68.20	11.81	PK
15600	44.31	13.16	H	57.47	73.98	16.51	PK
15600	31.06	13.16	H	44.22	53.98	9.76	AV

Band : UNII 1
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5240 MHz
 Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	47.79	9.94	V	57.73	68.20	10.47	PK
15720	44.52	13.28	V	57.80	73.98	16.18	PK
15720	30.13	13.28	V	43.41	53.98	10.57	AV
10480	46.76	9.94	H	56.70	68.20	11.50	PK
15720	43.92	13.28	H	57.20	73.98	16.78	PK
15720	30.03	13.28	H	43.31	53.98	10.67	AV

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5260MHz
 Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	47.90	9.96	V	57.86	68.20	10.34	PK
15780	43.25	13.29	V	56.54	73.98	17.44	PK
15780	29.19	13.29	V	42.48	53.98	11.50	AV
10520	47.39	9.96	H	57.35	68.20	10.85	PK
15780	42.99	13.29	H	56.28	73.98	17.70	PK
15780	29.10	13.29	H	42.39	53.98	11.59	AV

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5300 MHz
 Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	47.86	10.34	V	58.20	73.98	15.78	PK
10600	31.27	10.34	V	41.61	53.98	12.37	AV
15900	44.40	13.19	V	57.59	73.98	16.39	PK
15900	30.16	13.19	V	43.35	53.98	10.63	AV
10600	46.48	10.34	H	56.82	73.98	17.16	PK
10600	31.03	10.34	H	41.37	53.98	12.61	AV
15900	43.03	13.19	H	56.22	73.98	17.76	PK
15900	30.05	13.19	H	43.24	53.98	10.74	AV

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	48.27	10.30	V	58.57	73.98	15.41	PK
10640	30.96	10.30	V	41.26	53.98	12.72	AV
15960	44.51	12.29	V	56.80	73.98	17.18	PK
15960	30.59	12.29	V	42.88	53.98	11.10	AV
10640	47.41	10.30	H	57.71	73.98	16.27	PK
10640	30.74	10.30	H	41.04	53.98	12.94	AV
15960	43.52	12.29	H	55.81	73.98	18.17	PK
15960	30.47	12.29	H	42.76	53.98	11.22	AV

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Band : UNII 2C
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5500 MHz
 Channel No. 100 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	45.55	11.12	V	56.67	73.98	17.31	PK
11000	31.16	11.12	V	42.28	53.98	11.70	AV
16500	44.14	12.50	V	56.64	68.20	11.56	PK
11000	44.80	11.12	H	55.92	73.98	18.06	PK
11000	30.97	11.12	H	42.09	53.98	11.89	AV
16500	43.90	12.50	H	56.40	68.20	11.80	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5600 MHz
 Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	44.05	11.12	V	55.17	73.98	18.81	PK
11200	30.88	11.12	V	42.00	53.98	11.98	AV
16800	44.79	13.64	V	58.43	68.20	9.77	PK
11200	43.62	11.12	H	54.74	73.98	19.24	PK
11200	30.77	11.12	H	41.89	53.98	12.09	AV
16800	44.19	13.64	H	57.83	68.20	10.37	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	43.99	11.26	V	55.25	73.98	18.73	PK
11440	30.45	11.26	V	41.71	53.98	12.27	AV
17160	43.89	14.70	V	58.59	68.20	9.61	PK
11440	44.46	11.26	H	55.72	73.98	18.26	PK
11440	30.88	11.26	H	42.14	53.98	11.84	AV
17160	44.71	14.70	H	59.41	68.20	8.79	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5745MHz
 Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	42.00	11.54	V	53.54	73.98	20.44	PK
11490	28.84	11.54	V	40.38	53.98	13.60	AV
17235	43.53	15.28	V	58.81	68.20	9.39	PK
11490	42.44	11.54	H	53.98	73.98	20.00	PK
11490	29.11	11.54	H	40.65	53.98	13.33	AV
17235	44.32	15.28	H	59.60	68.20	8.60	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5785 MHz
 Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	42.22	10.94	V	53.16	73.98	20.82	PK
11570	29.37	10.94	V	40.31	53.98	13.67	AV
17355	44.11	15.94	V	60.05	68.20	8.15	PK
11570	43.37	10.94	H	54.31	73.98	19.67	PK
11570	29.49	10.94	H	40.43	53.98	13.55	AV
17355	44.45	15.94	H	60.39	68.20	7.81	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5825 MHz
 Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	42.57	10.39	V	52.96	73.98	21.02	PK
11650	29.55	10.39	V	39.94	53.98	14.04	AV
17475	44.45	17.24	V	61.69	68.20	6.51	PK
11650	42.98	10.39	H	53.37	73.98	20.61	PK
11650	29.68	10.39	H	40.07	53.98	13.91	AV
17475	44.71	17.24	H	61.95	68.20	6.25	PK

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Band : UNII 1
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5190 MHz
 Channel No. 38 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	45.72	9.23	V	54.95	68.20	13.25	PK
15570	44.93	13.21	V	58.14	73.98	15.84	PK
15570	32.19	13.21	V	45.40	53.98	8.58	AV
10380	44.92	9.23	H	54.15	68.20	14.05	PK
15570	44.42	13.21	H	57.63	73.98	16.35	PK
15570	31.78	13.21	H	44.99	53.98	8.99	AV

Band : UNII 1
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5230 MHz
 Channel No. 46 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	45.62	9.83	V	55.45	68.20	12.75	PK
15690	44.19	13.19	V	57.38	73.98	16.60	PK
15690	31.08	13.19	V	44.27	53.98	9.71	AV
10460	44.41	9.83	H	54.24	68.20	13.96	PK
15690	43.90	13.19	H	57.09	73.98	16.89	PK
15690	31.04	13.19	H	44.23	53.98	9.75	AV

Band : UNII 2A
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5270 MHz
 Channel No. 54 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	44.38	9.84	V	54.22	68.20	13.98	PK
15810	42.55	13.30	V	55.85	73.98	18.13	PK
15810	29.68	13.30	V	42.98	53.98	11.00	AV
10540	44.05	9.84	H	53.89	68.20	14.31	PK
15810	41.77	13.30	H	55.07	73.98	18.91	PK
15810	29.48	13.30	H	42.78	53.98	11.20	AV

Band : UNII 2A
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5310 MHz
 Channel No. 62 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	45.34	10.22	V	55.56	73.98	18.42	PK
10620	30.80	10.22	V	41.02	53.98	12.96	AV
15930	44.05	12.71	V	56.76	73.98	17.22	PK
15930	31.13	12.71	V	43.84	53.98	10.14	AV
10620	43.97	10.22	H	54.19	73.98	19.79	PK
10620	30.42	10.22	H	40.64	53.98	13.34	AV
15930	43.79	12.71	H	56.50	73.98	17.48	PK
15930	30.92	12.71	H	43.63	53.98	10.35	AV

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5510 MHz
 Channel No. 102 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	42.93	11.18	V	54.11	73.98	19.87	PK
11020	29.57	11.18	V	40.75	53.98	13.23	AV
16530	44.30	12.80	V	57.10	68.20	11.10	PK
11020	42.55	11.18	H	53.73	73.98	20.25	PK
11020	29.44	11.18	H	40.62	53.98	13.36	AV
16530	43.95	12.80	H	56.75	68.20	11.45	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5590 MHz
 Channel No. 118 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	43.14	10.89	V	54.03	73.98	19.95	PK
11180	29.65	10.89	V	40.54	53.98	13.44	AV
16770	45.29	13.76	V	59.05	68.20	9.15	PK
11180	42.45	10.89	H	53.34	73.98	20.64	PK
11180	29.37	10.89	H	40.26	53.98	13.72	AV
16770	44.51	13.76	H	58.27	68.20	9.93	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	42.81	11.29	V	54.10	73.98	19.88	PK
11420	30.02	11.29	V	41.31	53.98	12.67	AV
17130	43.54	14.54	V	58.08	68.20	10.12	PK
11420	43.25	11.29	H	54.54	73.98	19.44	PK
11420	30.28	11.29	H	41.57	53.98	12.41	AV
17130	44.38	14.54	H	58.92	68.20	9.28	PK

Band : UNII 3
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5755 MHz
 Channel No. 151 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	42.94	11.45	V	54.39	73.98	19.59	PK
11510	29.46	11.45	V	40.91	53.98	13.07	AV
17265	43.28	15.19	V	58.47	68.20	9.73	PK
11510	43.32	11.45	H	54.77	73.98	19.21	PK
11510	29.68	11.45	H	41.13	53.98	12.85	AV
17265	43.90	15.19	H	59.09	68.20	9.11	PK

Band : UNII 3
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5795 MHz
 Channel No. 159 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	42.04	10.48	V	52.52	73.98	21.46	PK
11590	29.55	10.48	V	40.03	53.98	13.95	AV
17385	44.00	16.15	V	60.15	68.20	8.05	PK
11590	43.19	10.48	H	53.67	73.98	20.31	PK
11590	29.66	10.48	H	40.14	53.98	13.84	AV
17385	44.09	16.15	H	60.24	68.20	7.96	PK

Band : UNII 1
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5190 MHz
 Channel No. 38 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	44.26	9.23	V	53.49	68.20	14.71	PK
15570	45.30	13.21	V	58.51	73.98	15.47	PK
15570	32.23	13.21	V	45.44	53.98	8.54	AV
10380	43.58	9.23	H	52.81	68.20	15.39	PK
15570	44.07	13.21	H	57.28	73.98	16.70	PK
15570	31.89	13.21	H	45.10	53.98	8.88	AV

Band : UNII 1
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5230 MHz
 Channel No. 46 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	44.76	9.83	V	54.59	68.20	13.61	PK
15690	44.17	13.19	V	57.36	73.98	16.62	PK
15690	30.92	13.19	V	44.11	53.98	9.87	AV
10460	44.07	9.83	H	53.90	68.20	14.30	PK
15690	43.12	13.19	H	56.31	73.98	17.67	PK
15690	30.82	13.19	H	44.01	53.98	9.97	AV

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5270 MHz
 Channel No. 54 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	44.57	9.84	V	54.41	68.20	13.79	PK
15810	43.21	13.30	V	56.51	73.98	17.47	PK
15810	29.65	13.30	V	42.95	53.98	11.03	AV
10540	44.06	9.84	H	53.90	68.20	14.30	PK
15810	41.90	13.30	H	55.20	73.98	18.78	PK
15810	29.50	13.30	H	42.80	53.98	11.18	AV

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5310 MHz
 Channel No. 62 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	43.25	10.22	V	53.47	73.98	20.51	PK
10620	30.73	10.22	V	40.95	53.98	13.03	AV
15930	44.04	12.71	V	56.75	73.98	17.23	PK
15930	31.06	12.71	V	43.77	53.98	10.21	AV
10620	42.97	10.22	H	53.19	73.98	20.79	PK
10620	30.48	10.22	H	40.70	53.98	13.28	AV
15930	43.11	12.71	H	55.82	73.98	18.16	PK
15930	30.77	12.71	H	43.48	53.98	10.50	AV

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5510 MHz
 Channel No. 102 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	42.98	11.18	V	54.16	73.98	19.82	PK
11020	29.85	11.18	V	41.03	53.98	12.95	AV
16530	44.30	12.80	V	57.10	68.20	11.10	PK
11020	41.91	11.18	H	53.09	73.98	20.89	PK
11020	29.54	11.18	H	40.72	53.98	13.26	AV
16530	43.98	12.80	H	56.78	68.20	11.42	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5590 MHz
 Channel No. 118 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	42.32	10.89	V	53.21	73.98	20.77	PK
11180	29.07	10.89	V	39.96	53.98	14.02	AV
16770	44.93	13.76	V	58.69	68.20	9.51	PK
11180	42.19	10.89	H	53.08	73.98	20.90	PK
11180	28.86	10.89	H	39.75	53.98	14.23	AV
16770	43.81	13.76	H	57.57	68.20	10.63	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	42.77	11.29	V	54.06	73.98	19.92	PK
11420	29.81	11.29	V	41.10	53.98	12.88	AV
17130	43.81	14.54	V	58.35	68.20	9.85	PK
11420	43.14	11.29	H	54.43	73.98	19.55	PK
11420	30.05	11.29	H	41.34	53.98	12.64	AV
17130	44.51	14.54	H	59.05	68.20	9.15	PK

Report No.: HCT-RF-2003-FC005-R1

Band : UNII 3
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5755 MHz
 Channel No. 151 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	41.97	11.45	V	53.42	73.98	20.56	PK
11510	29.45	11.45	V	40.90	53.98	13.08	AV
17265	43.54	15.19	V	58.73	68.20	9.47	PK
11510	43.19	11.45	H	54.64	73.98	19.34	PK
11510	29.77	11.45	H	41.22	53.98	12.76	AV
17265	43.98	15.19	H	59.17	68.20	9.03	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5795 MHz
 Channel No. 159 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.- -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	41.60	10.48	V	52.08	73.98	21.90	PK
11590	29.46	10.48	V	39.94	53.98	14.04	AV
17385	43.87	16.15	V	60.02	68.20	8.18	PK
11590	42.73	10.48	H	53.21	73.98	20.77	PK
11590	29.79	10.48	H	40.27	53.98	13.71	AV
17385	44.87	16.15	H	61.02	68.20	7.18	PK

Report No.: HCT-RF-2003-FC005-R1

Band : UNII 1
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5210 MHz
 Channel No. 42 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	43.94	9.19	V	53.13	68.20	15.07	PK
15630	44.84	13.57	V	58.41	73.98	15.57	PK
15630	33.11	13.57	V	46.68	53.98	7.30	AV
10420	42.53	9.19	H	51.72	68.20	16.48	PK
15630	44.53	13.57	H	58.10	73.98	15.88	PK
15630	32.15	13.57	H	45.72	53.98	8.26	AV

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5290 MHz
 Channel No. 58 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	43.71	10.35	V	54.06	68.20	14.14	PK
15870	43.31	13.05	V	56.36	73.98	17.62	PK
15870	31.86	13.05	V	44.91	53.98	9.07	AV
10580	43.23	10.35	H	53.58	68.20	14.62	PK
15870	42.62	13.05	H	55.67	73.98	18.31	PK
15870	31.43	13.05	H	44.48	53.98	9.50	AV

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5530 MHz
 Channel No. 106 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	42.26	10.95	V	53.21	73.98	20.77	PK
11060	30.68	10.95	V	41.63	53.98	12.35	AV
16590	44.81	12.73	V	57.54	68.20	10.66	PK
11060	41.23	10.95	H	52.18	73.98	21.80	PK
11060	30.53	10.95	H	41.48	53.98	12.50	AV
16590	44.25	12.73	H	56.98	68.20	11.22	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5610 MHz
 Channel No. 122 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11220	43.22	10.82	V	54.04	73.98	19.94	PK
11220	31.25	10.82	V	42.07	53.98	11.91	AV
16830	44.61	14.47	V	59.08	68.20	9.12	PK
11220	42.69	10.82	H	53.51	73.98	20.47	PK
11220	30.80	10.82	H	41.62	53.98	12.36	AV
16830	43.98	14.47	H	58.45	68.20	9.75	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5690 MHz
 Channel No. 138 Ch

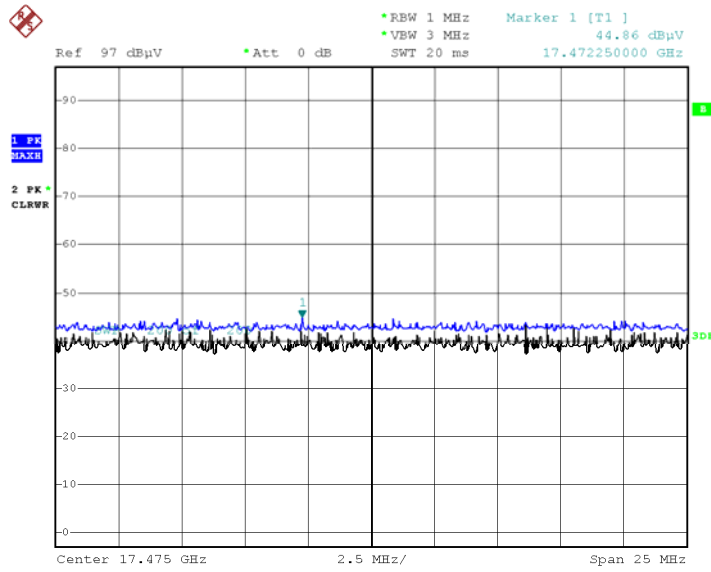
Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	42.89	11.38	V	54.27	73.98	19.71	PK
11380	31.02	11.38	V	42.40	53.98	11.58	AV
17070	43.72	14.66	V	58.38	68.20	9.82	PK
11380	43.47	11.38	H	54.85	73.98	19.13	PK
11380	31.37	11.38	H	42.75	53.98	11.23	AV
17070	43.78	14.66	H	58.44	68.20	9.76	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5775 MHz
 Channel No. 155 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	41.75	11.00	V	52.75	73.98	21.23	PK
11550	30.03	11.00	V	41.03	53.98	12.95	AV
17325	43.23	15.71	V	58.94	68.20	9.26	PK
11550	42.06	11.00	H	53.06	73.98	20.92	PK
11550	30.39	11.00	H	41.39	53.98	12.59	AV
17325	44.16	15.71	H	59.87	68.20	8.33	PK

▣ Test Plots

Peak Reading (802.11a, Ch.165 3rd Harmonic, Y-H)



Date: 24.FEB.2020 14:17:45

Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9 RADIATED RESTRICTED BAND EDGE

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.46	8.02	H	68.48	73.98	5.50	PK
5150	40.10	8.02	H	48.12	53.98	5.86	AV
5150	60.17	8.02	V	68.19	73.98	5.79	PK
5150	39.31	8.02	V	47.33	53.98	6.65	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	60.99	7.87	H	68.86	73.98	5.12	PK
5350	40.62	7.87	H	48.49	53.98	5.49	AV
5350	60.68	7.87	V	68.55	73.98	5.43	PK
5350	40.42	7.87	V	48.29	53.98	5.69	AV

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5500 MHz
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.98	8.35	H	58.33	73.98	15.65	PK
5460	36.09	8.35	H	44.44	53.98	9.54	AV
5470	54.49	8.31	H	62.8	68.20	5.40	PK
5460	49.26	8.35	V	57.61	73.98	16.37	PK
5460	36.05	8.31	V	44.36	53.98	9.62	AV
5470	53.22	8.31	V	61.53	68.20	6.67	PK

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5520 MHz
 Channel No. 104 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	48.80	8.35	H	57.15	73.98	16.83	PK
5460	36.46	8.35	H	44.81	53.98	9.17	AV
5470	56.25	8.31	H	64.56	68.20	3.64	PK
5460	48.52	8.35	V	56.87	73.98	17.11	PK
5460	36.09	8.31	V	44.4	53.98	9.58	AV
5470	54.70	8.31	V	63.01	68.20	5.19	PK

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	44.29	9.25	H	53.54	68.20	14.66	PK
5850	45.00	9.25	V	54.25	68.20	13.95	PK

Band : UNII 1
 Operation Mode: 802.11 n_HT20
 Transfer MCS Index: 0
 Operating Frequency 5180 MHz
 Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]					
5150	60.66	8.02	H	68.68	73.98	5.30	PK
5150	39.68	8.02	H	47.7	53.98	6.28	AV
5150	60.59	8.02	V	68.61	73.98	5.37	PK
5150	39.22	8.02	V	47.24	53.98	6.74	AV

Band : UNII 2A
 Operation Mode: 802.11 n_HT20
 Transfer MCS Index: 0
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]					
5350	61.98	7.87	H	69.85	73.98	4.13	PK
5350	40.06	7.87	H	47.93	53.98	6.05	AV
5350	60.44	7.87	V	68.31	73.98	5.67	PK
5350	39.98	7.87	V	47.85	53.98	6.13	AV

Band : UNII 2C
 Operation Mode: 802.11 n_HT20
 Transfer MCS Index: 0
 Operating Frequency 5500 MHz
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	48.62	8.35	H	56.97	73.98	17.01	PK
5460	35.07	8.35	H	43.42	53.98	10.56	AV
5470	53.68	8.31	H	61.99	68.20	6.21	PK
5460	47.03	8.35	V	55.38	73.98	18.60	PK
5460	34.90	8.31	V	43.21	53.98	10.77	AV
5470	52.62	8.31	V	60.93	68.20	7.27	PK

Band : UNII 2C
 Operation Mode: 802.11 n_HT20
 Transfer Rate: 0
 Operating Frequency 5520 MHz
 Channel No. 104 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.95	8.35	H	56.30	73.98	17.68	PK
5460	35.19	8.35	H	43.54	53.98	10.44	AV
5470	49.84	8.31	H	58.15	68.20	10.05	PK
5460	46.64	8.35	V	54.99	73.98	18.99	PK
5460	35.09	8.31	V	43.4	53.98	10.58	AV
5470	49.52	8.31	V	57.83	68.20	10.37	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer Rate:	0
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	44.54	9.25	H	53.79	68.20	14.41	PK
5850	45.06	9.25	V	54.31	68.20	13.89	PK

Band : UNII 1

Operation Mode: 802.11 ac_VHT20

Transfer MCS Index: 0

Operating Frequency 5180 MHz

Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5150	60.57	8.02	H	68.59	73.98	5.39	PK
5150	39.56	8.02	H	47.58	53.98	6.40	AV
5150	59.12	8.02	V	67.14	73.98	6.84	PK
5150	39.19	8.02	V	47.21	53.98	6.77	AV

Band : UNII 2A

Operation Mode: 802.11 ac_VHT20

Transfer MCS Index: 0

Operating Frequency 5320 MHz

Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5350	62.83	7.87	H	70.70	73.98	3.28	PK
5350	39.76	7.87	H	47.63	53.98	6.35	AV
5350	61.29	7.87	V	69.16	73.98	4.82	PK
5350	39.29	7.87	V	47.16	53.98	6.82	AV

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT20
 Transfer MCS Index: 0
 Operating Frequency 5500 MHz
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT.		ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]						
5460	48.97	8.35		H	57.32	73.98	16.66	PK
5460	36.26	8.35		H	44.61	53.98	9.37	AV
5470	56.75	8.31		H	65.06	68.20	3.14	PK
5460	48.51	8.35		V	56.86	73.98	17.12	PK
5460	36.21	8.31		V	44.52	53.98	9.46	AV
5470	55.94	8.31		V	64.25	68.20	3.95	PK

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT20
 Transfer Rate: 0
 Operating Frequency 5520 MHz
 Channel No. 104 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT.		ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]						
5460	48.24	8.35		H	56.59	73.98	17.39	PK
5460	35.05	8.35		H	43.4	53.98	10.58	AV
5470	48.64	8.31		H	56.95	68.20	11.25	PK
5460	47.95	8.35		V	56.3	73.98	17.68	PK
5460	34.90	8.31		V	43.21	53.98	10.77	AV
5470	48.04	8.31		V	56.35	68.20	11.85	PK

Report No.: HCT-RF-2003-FC005-R1

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer Rate:	0
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	44.26	9.25	H	53.51	68.20	14.69	PK
5850	45.31	9.25	V	54.56	68.20	13.64	PK

Band : UNII 1
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5190 MHz
 Channel No. 38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.		ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]						
5150	60.73	8.02		H	68.75	73.98	5.23	PK
5150	38.71	8.02		H	46.73	53.98	7.25	AV
5150	60.25	8.02		V	68.27	73.98	5.71	PK
5150	38.03	8.02		V	46.05	53.98	7.93	AV

Band : UNII 2A
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5270 MHz
 Channel No. 54 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.		ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]						
5350	48.22	7.87		H	56.09	73.98	17.89	PK
5350	34.89	7.87		H	42.76	53.98	11.22	AV
5350	47.57	7.87		V	55.44	73.98	18.54	PK
5350	34.81	7.87		V	42.68	53.98	11.30	AV

Band : UNII 2A
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5310 MHz
 Channel No. 62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.		ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]						
5350	61.57	7.87		H	69.44	73.98	4.54	PK
5350	39.79	7.87		H	47.66	53.98	6.32	AV
5350	60.41	7.87		V	68.28	73.98	5.70	PK
5350	39.52	7.87		V	47.39	53.98	6.59	AV

Band : UNII 2C
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5510 MHz
 Channel No. 102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT.		ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]						
5460	47.18	8.35		H	55.53	73.98	18.45	PK
5460	34.63	8.35		H	42.98	53.98	11.00	AV
5470	55.47	8.31		H	63.78	68.20	4.42	PK
5460	47.05	8.35		V	55.4	73.98	18.58	PK
5460	33.92	8.31		V	42.23	53.98	11.75	AV
5470	55.37	8.31		V	63.68	68.20	4.52	PK

Report No.: HCT-RF-2003-FC005-R1

Band : UNII 2C
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5550 MHz
 Channel No. 110 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.54	8.35	H	55.89	73.98	18.09	PK
5460	34.72	8.35	H	43.07	53.98	10.91	AV
5470	48.47	8.31	H	56.78	68.20	11.42	PK
5460	46.71	8.35	V	55.06	73.98	18.92	PK
5460	34.34	8.31	V	42.65	53.98	11.33	AV
5470	47.29	8.31	V	55.6	68.20	12.60	PK

Band : UNII 2C
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	44.49	9.25	H	53.74	68.20	14.46	PK
5850	44.80	9.25	V	54.05	68.20	14.15	PK

Report No.: HCT-RF-2003-FC005-R1

Band :	UNII 1
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.		ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]						
5150	61.61	8.02		H	69.63	73.98	4.35	PK
5150	40.76	8.02		H	48.78	53.98	5.20	AV
5150	59.42	8.02		V	67.44	73.98	6.54	PK
5150	40.46	8.02		V	48.48	53.98	5.50	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.		ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]						
5350	59.67	7.87		H	67.54	73.98	6.44	PK
5350	41.30	7.87		H	49.17	53.98	4.81	AV
5350	58.88	7.87		V	66.75	73.98	7.23	PK
5350	40.77	7.87		V	48.64	53.98	5.34	AV

Band : UNII 2A
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5310 MHz
 Channel No. 62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5350	58.49	7.87	H	66.36	73.98	7.62	PK
5350	37.58	7.87	H	45.45	53.98	8.53	AV
5350	57.11	7.87	V	64.98	73.98	9.00	PK
5350	36.82	7.87	V	44.69	53.98	9.29	AV

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5510 MHz
 Channel No. 102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5460	46.23	8.35	H	54.58	73.98	19.40	PK
5460	34.36	8.35	H	42.71	53.98	11.27	AV
5470	55.95	8.31	H	64.26	68.20	3.94	PK
5460	45.44	8.35	V	53.79	73.98	20.19	PK
5460	34.14	8.31	V	42.45	53.98	11.53	AV
5470	55.68	8.31	V	63.99	68.20	4.21	PK

Report No.: HCT-RF-2003-FC005-R1

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5550 MHz
 Channel No. 110 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.43	8.35	H	55.78	73.98	18.20	PK
5460	34.63	8.35	H	42.98	53.98	11.00	AV
5470	47.40	8.31	H	55.71	68.20	12.49	PK
5460	46.14	8.35	V	54.49	73.98	19.49	PK
5460	34.04	8.31	V	42.35	53.98	11.63	AV
5470	46.71	8.31	V	55.02	68.20	13.18	PK

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	43.70	9.25	H	52.95	68.20	15.25	PK
5850	44.57	9.25	V	53.82	68.20	14.38	PK

Band : UNII 1
 Operation Mode: 802.11 ac_VHT80
 Transfer MCS Index: 0
 Operating Frequency 5210 MHz
 Channel No. 42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]					
5150	59.92	8.02	H	67.94	73.98	6.04	PK
5150	42.34	8.02	H	50.36	53.98	3.62	AV
5150	58.56	8.02	V	66.58	73.98	7.40	PK
5150	41.58	8.02	V	49.6	53.98	4.38	AV

Band : UNII 2A
 Operation Mode: 802.11 ac_VHT80
 Transfer MCS Index: 0
 Operating Frequency 5290 MHz
 Channel No. 58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]					
5350	60.84	7.87	H	68.71	73.98	5.27	PK
5350	42.44	7.87	H	50.31	53.98	3.67	AV
5350	60.00	7.87	V	67.87	73.98	6.11	PK
5350	41.89	7.87	V	49.76	53.98	4.22	AV

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT80
 Transfer MCS Index: 0
 Operating Frequency 5530 MHz
 Channel No. 106 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.33	8.35	H	60.68	73.98	13.30	PK
5460	38.30	8.35	H	46.65	53.98	7.33	AV
5470	56.55	8.31	H	64.86	68.20	3.34	PK
5460	51.20	8.35	V	59.55	73.98	14.43	PK
5460	37.85	8.31	V	46.16	53.98	7.82	AV
5470	54.91	8.31	V	63.22	68.20	4.98	PK

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT80
 Transfer MCS Index: 0
 Operating Frequency 5610 MHz
 Channel No. 122 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.80	8.35	H	56.15	73.98	17.83	PK
5460	34.81	8.35	H	43.16	53.98	10.82	AV
5470	50.28	8.31	H	58.59	68.20	9.61	PK
5460	45.79	8.35	V	54.14	73.98	19.84	PK
5460	34.07	8.31	V	42.38	53.98	11.60	AV
5470	48.66	8.31	V	56.97	68.20	11.23	PK

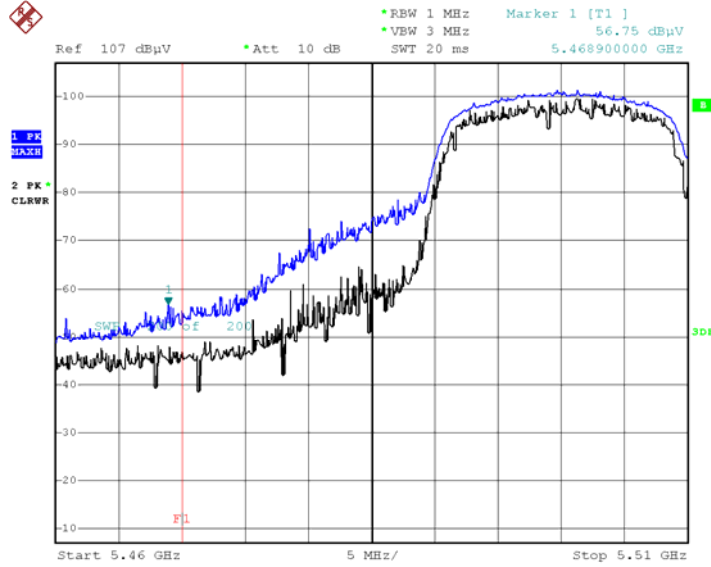
Report No.: HCT-RF-2003-FC005-R1

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5690 MHz
Channel No.	138 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	44.61	9.25	H	53.86	68.20	14.34	PK
5850	44.96	9.25	V	54.21	68.20	13.99	PK

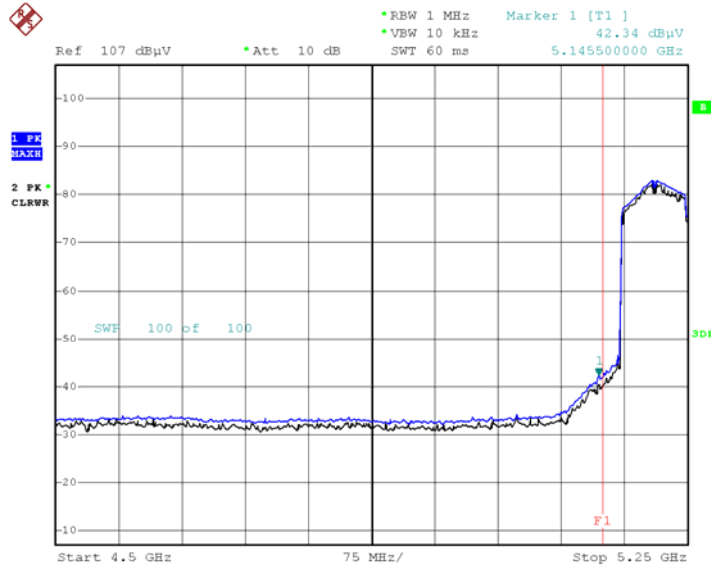
▣ Test Plots(UNII 1, 2A, 2C)

Peak Reading (802.11 ac(VHT20)_MCS0, Ch.100, Y-H)



Date: 14.FEB.2020 11:10:42

Avg Reading (802.11 ac(VHT80)_MCS0, Ch.42, Y-H)



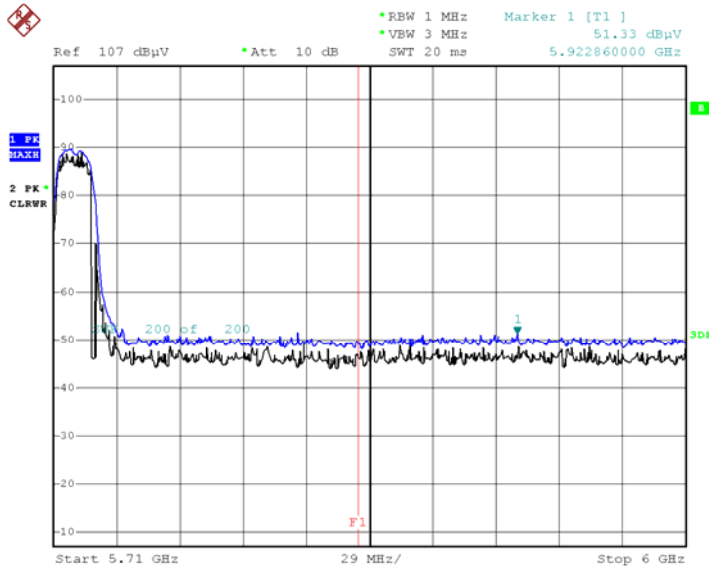
Date: 10.FEB.2020 15:41:06

Note:

Only the worst case plots for Radiated Restricted Band Edge.

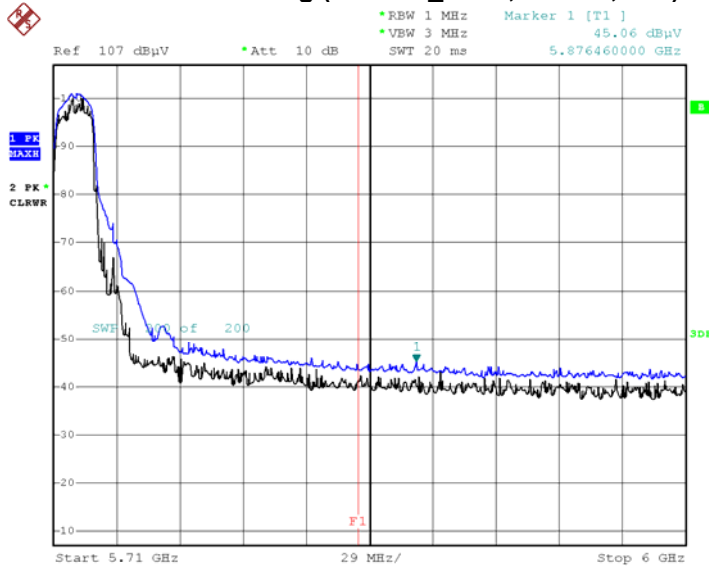
☐ Test Plots(Staraddle Channel)

Peak Reading (802.11a, Ch.144, Y-H)



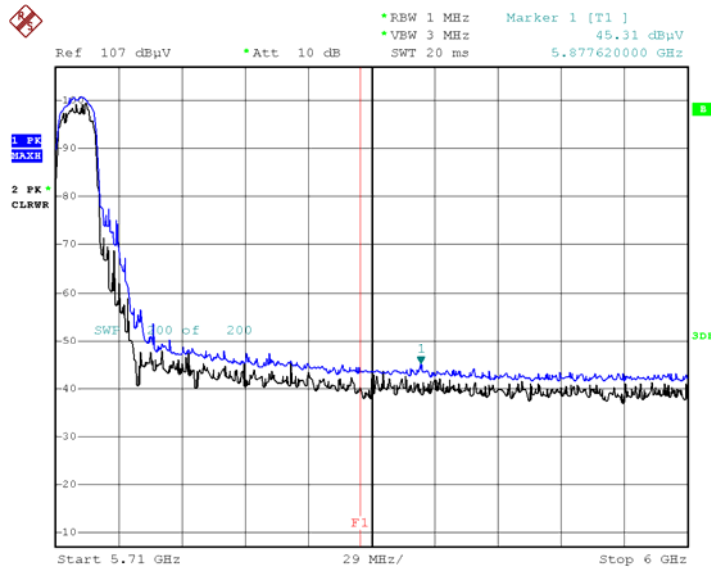
Date: 5.DEC.2019 09:26:01

Peak Reading (802.11n_HT20, Ch.144, Y-H)



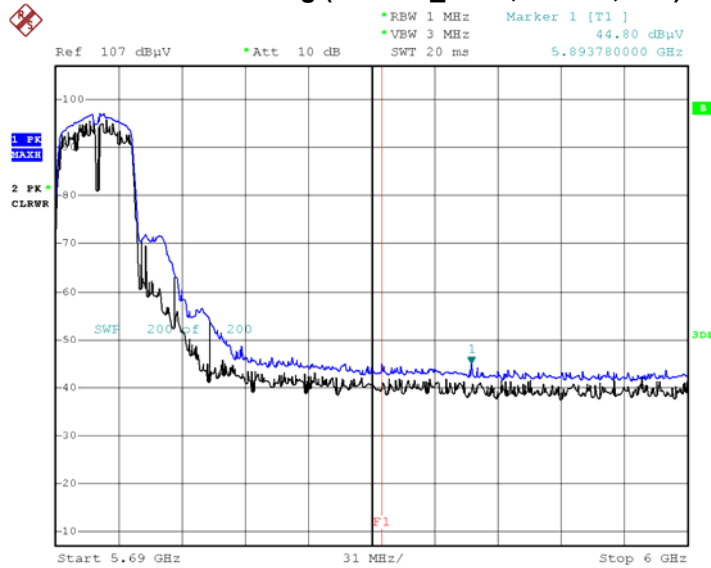
Date: 19.FEB.2020 10:09:07

Peak Reading (802.11ac_VHT20, Ch.144, Y-H)



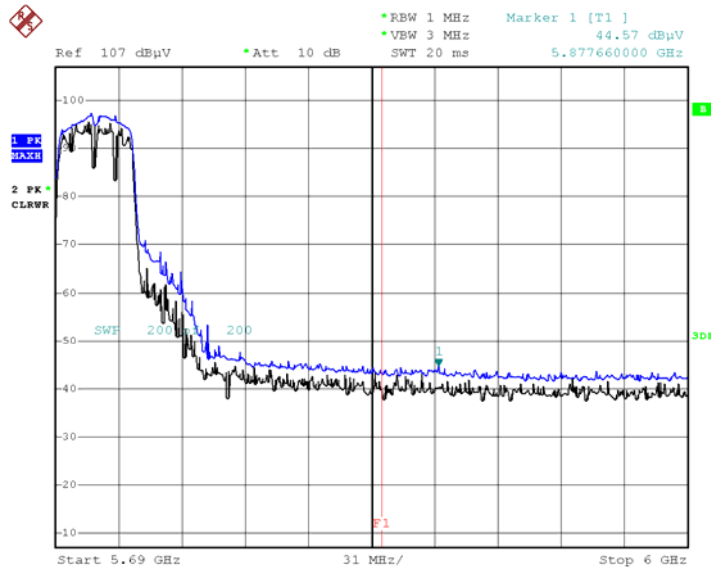
Date: 19.FEB.2020 10:10:49

Peak Reading (802.11n_HT40, Ch.142, Y-H)



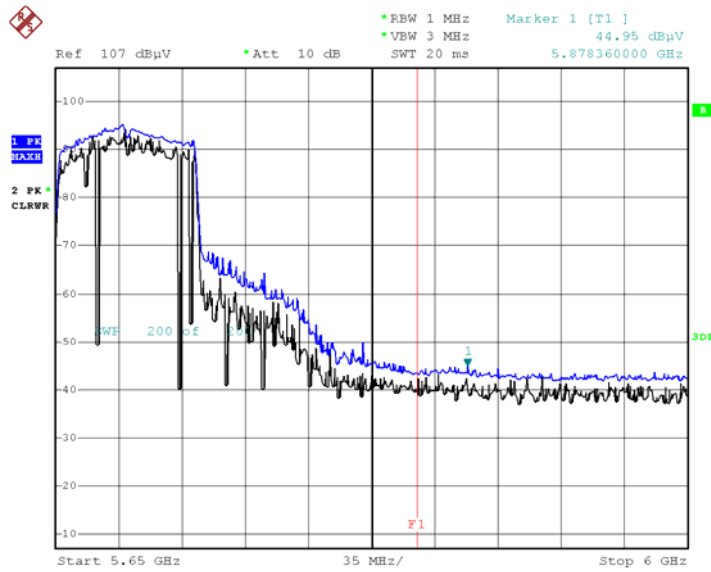
Date: 19.FEB.2020 10:12:32

Peak Reading (802.11ac_VHT40, Ch.142, Y-H)



Date: 19.FEB.2020 10:13:57

Peak Reading (802.11ac_VHT80, Ch.138, Y-H)



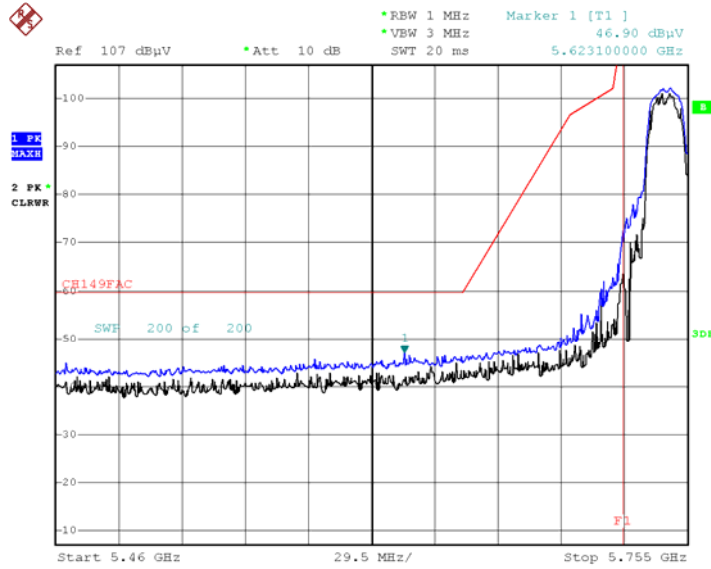
Date: 19.FEB.2020 10:15:34

Note :

1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

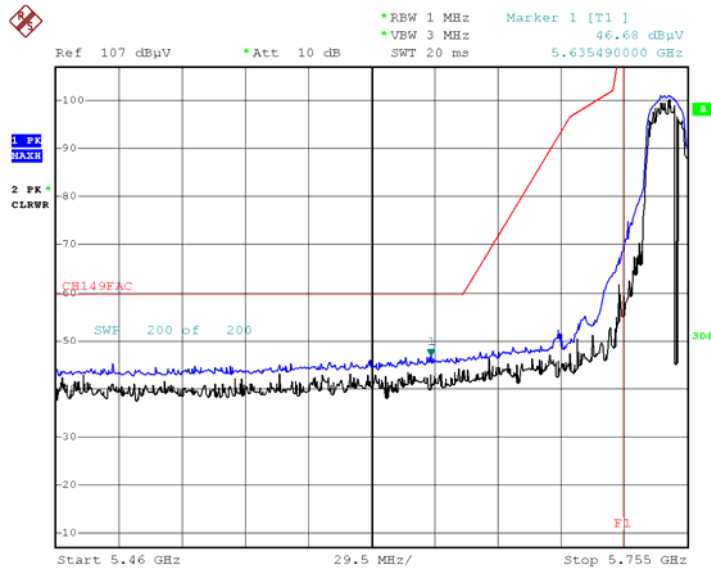
☐ Test Plots(UNII 3)

Peak Reading (802.11a, Ch.149, Y-H)



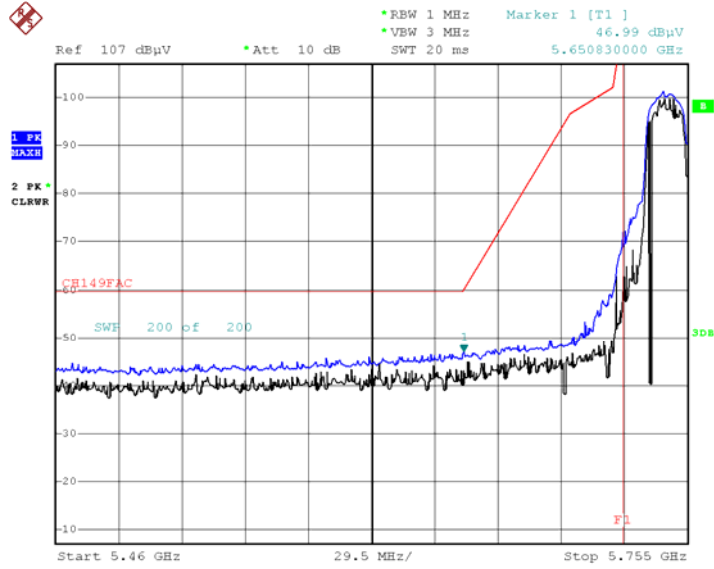
Date: 19.FEB.2020 09:58:52

Peak Reading (802.11n_HT20, Ch.149, Y-H)



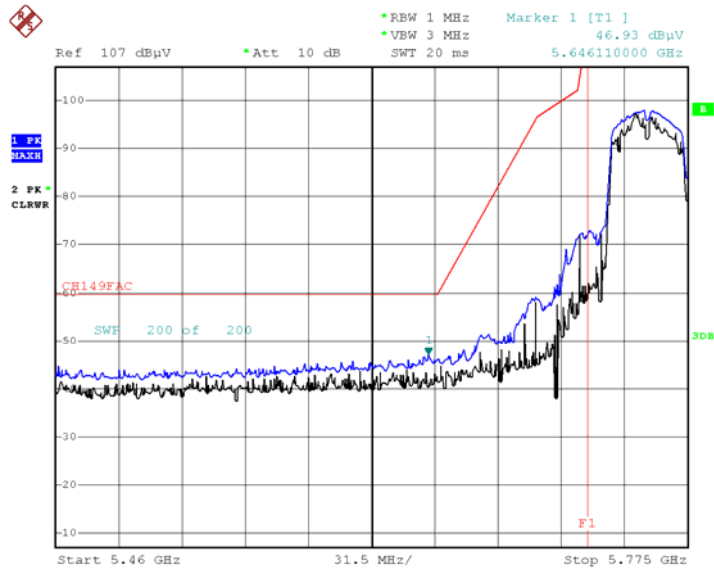
Date: 19.FEB.2020 10:01:15

Peak Reading (802.11ac_VHT20, Ch.149, Y-H)



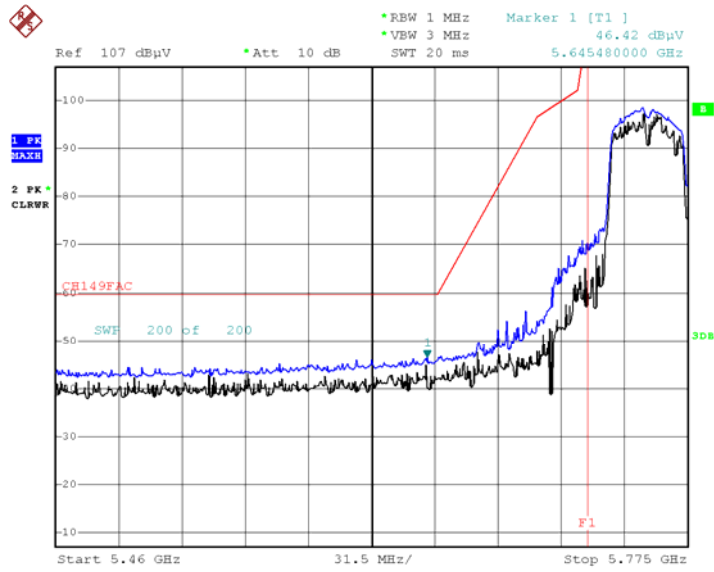
Date: 19.FEB.2020 10:03:39

Peak Reading (802.11n_HT40, Ch.151, Y-H)



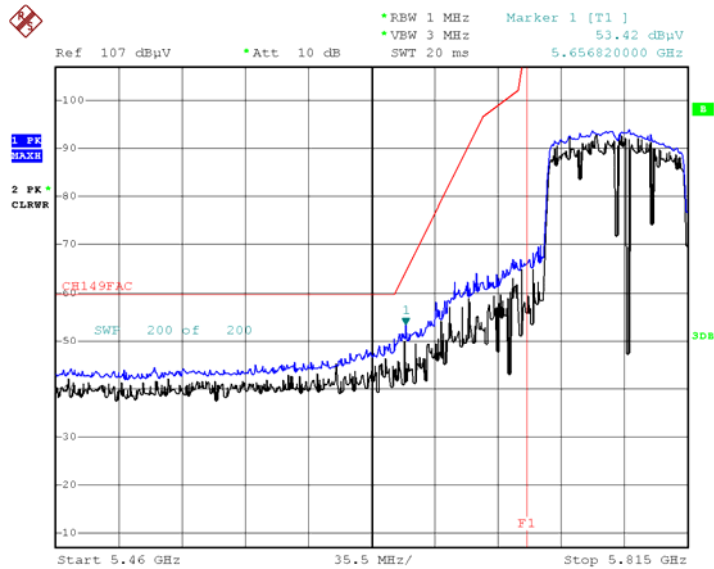
Date: 19.FEB.2020 09:57:15

Peak Reading (802.11ac_VHT40, Ch.151, Y-H)



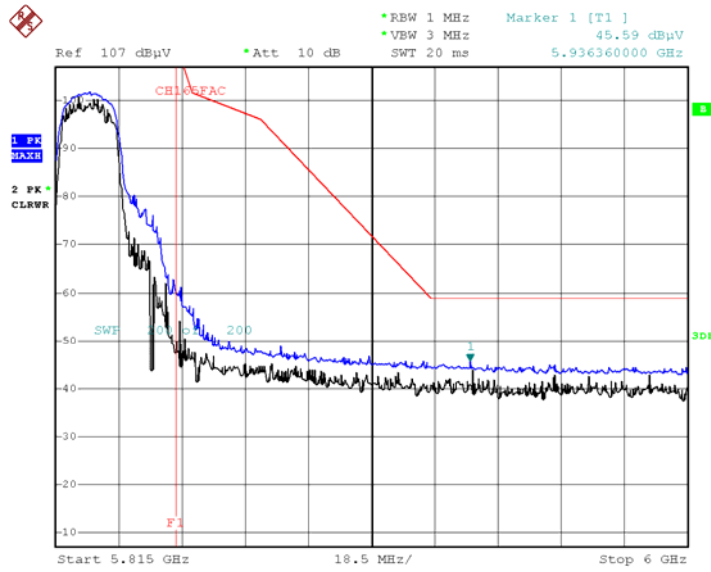
Date: 19.FEB.2020 09:56:18

Peak Reading (802.11ac_VHT80, Ch.155, Y-H)



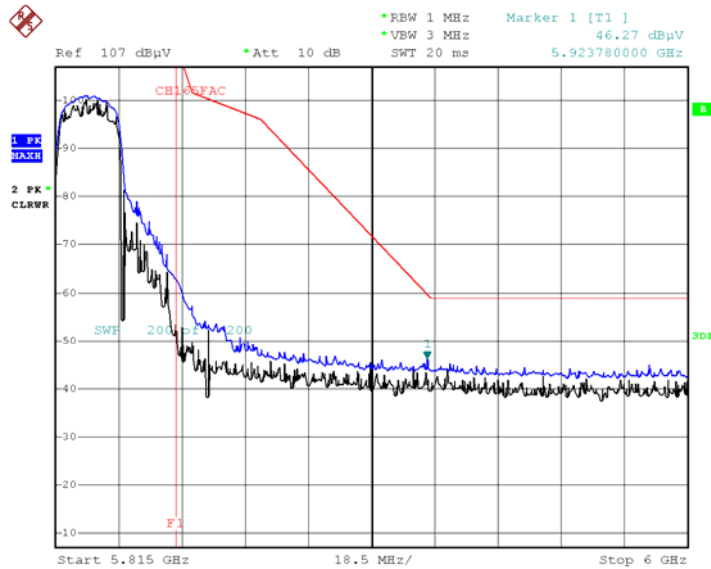
Date: 19.FEB.2020 09:54:42

Peak Reading (802.11a, Ch.165, Y-H)



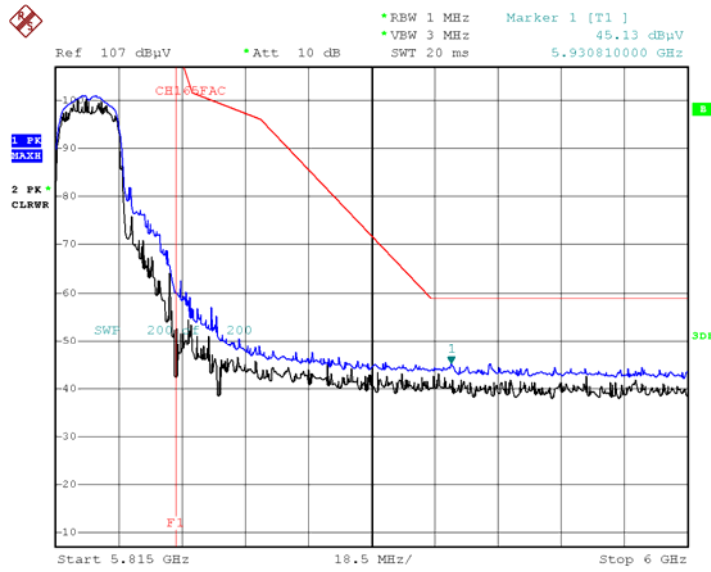
Date: 19.FEB.2020 09:44:42

Peak Reading (802.11n_HT20, Ch.165, Y-H)



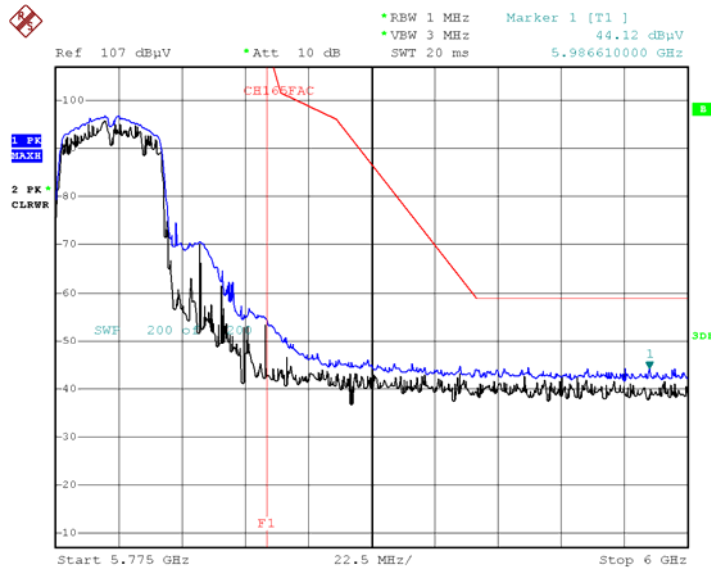
Date: 19.FEB.2020 09:46:01

Peak Reading (802.11ac_VHT20, Ch.165, Y-H)



Date: 19.FEB.2020 09:47:12

Peak Reading (802.11n_HT40, Ch.159, Y-H)



Date: 19.FEB.2020 09:48:22

10.10 POWERLINE CONDUCTED EMISSIONS
Conducted Emissions (Line 1)

Test

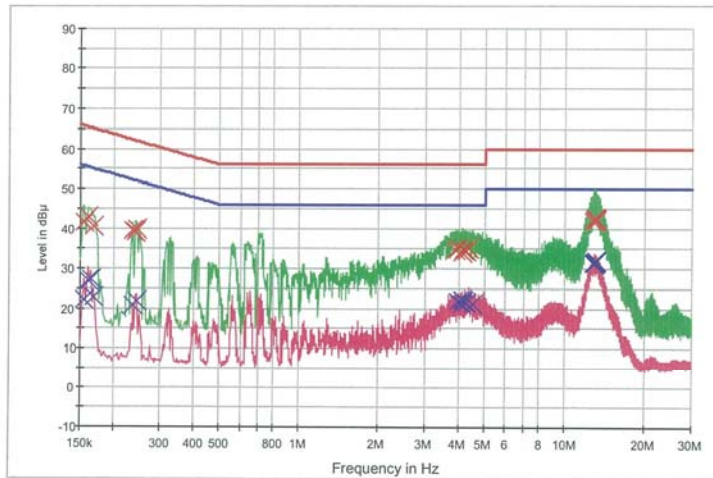
1 / 2

HCT TEST Report

Common Information

EUT: SM-A415F/DSN
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: WLAN 5G_L1

FCC CLASS B_Exten Cable



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
 — Preview Result 2-AVG × Final Result 1-QPK × Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.156000	41.5	9.000	Off	L1	9.8	24.2	65.7
0.160000	43.0	9.000	Off	L1	9.8	22.5	65.5
0.168000	40.6	9.000	Off	L1	9.8	24.5	65.1
0.238000	39.4	9.000	Off	L1	9.8	22.8	62.2
0.242000	39.1	9.000	Off	L1	9.8	22.9	62.0
0.246000	39.8	9.000	Off	L1	9.8	22.0	61.9
3.876000	34.9	9.000	Off	L1	10.0	21.1	56.0
3.966000	35.1	9.000	Off	L1	10.0	20.9	56.0
4.090000	34.2	9.000	Off	L1	10.0	21.8	56.0
4.152000	34.7	9.000	Off	L1	10.0	21.3	56.0
4.240000	34.5	9.000	Off	L1	10.0	21.5	56.0
4.352000	35.2	9.000	Off	L1	10.0	20.8	56.0
12.842000	41.9	9.000	Off	L1	10.3	18.1	60.0
12.944000	42.5	9.000	Off	L1	10.3	17.5	60.0
12.968000	42.3	9.000	Off	L1	10.3	17.7	60.0
13.008000	42.4	9.000	Off	L1	10.3	17.6	60.0
13.058000	42.2	9.000	Off	L1	10.3	17.8	60.0
13.128000	42.0	9.000	Off	L1	10.3	18.0	60.0

2020-02-06

오후 1:57:20

Test

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.156000	22.2	9.000	Off	L1	9.8	33.5	55.7
0.160000	27.0	9.000	Off	L1	9.8	28.4	55.5
0.164000	27.4	9.000	Off	L1	9.8	27.9	55.3
0.168000	22.8	9.000	Off	L1	9.8	32.2	55.1
0.238000	20.8	9.000	Off	L1	9.8	31.4	52.2
0.246000	21.8	9.000	Off	L1	9.8	30.1	51.9
3.966000	22.0	9.000	Off	L1	10.0	24.0	46.0
4.090000	21.2	9.000	Off	L1	10.0	24.8	46.0
4.126000	22.3	9.000	Off	L1	10.0	23.7	46.0
4.152000	21.8	9.000	Off	L1	10.0	24.2	46.0
4.240000	21.4	9.000	Off	L1	10.0	24.6	46.0
4.486000	21.3	9.000	Off	L1	10.0	24.7	46.0
12.842000	31.5	9.000	Off	L1	10.3	18.5	50.0
12.882000	31.5	9.000	Off	L1	10.3	18.5	50.0
12.968000	31.6	9.000	Off	L1	10.3	18.4	50.0
13.008000	32.0	9.000	Off	L1	10.3	18.0	50.0
13.058000	31.7	9.000	Off	L1	10.3	18.3	50.0
13.090000	31.8	9.000	Off	L1	10.3	18.2	50.0

2020-02-06

오후 1:57:20

Conducted Emissions (Line 2)

Test

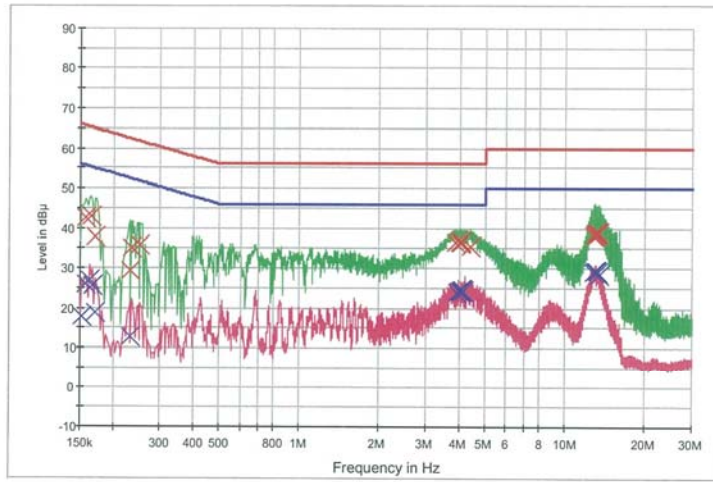
1 / 2

HCT TEST Report

Common Information

EUT: SM-A415F/DSN
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: WLAN 5G_N

FCC CLASS B_Exten Cable



— FCC CLASS B_OP — FCC CLASS B_AV — Preview Result 1-PK+
 — Preview Result 2-AVG × Final Result 1-QPK × Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.158000	42.4	9.000	Off	N	9.8	23.2	65.6
0.164000	42.9	9.000	Off	N	9.8	22.3	65.3
0.170000	37.8	9.000	Off	N	9.8	27.2	65.0
0.230000	29.3	9.000	Off	N	9.8	33.1	62.4
0.234000	34.9	9.000	Off	N	9.8	27.4	62.3
0.252000	35.9	9.000	Off	N	9.8	25.8	61.7
3.896000	36.4	9.000	Off	N	10.0	19.6	56.0
3.992000	36.5	9.000	Off	N	10.0	19.5	56.0
4.010000	36.6	9.000	Off	N	10.0	19.4	56.0
4.044000	36.9	9.000	Off	N	10.0	19.1	56.0
4.052000	36.5	9.000	Off	N	10.0	19.5	56.0
4.414000	35.5	9.000	Off	N	10.0	20.5	56.0
12.784000	38.3	9.000	Off	N	10.4	21.7	60.0
12.966000	38.6	9.000	Off	N	10.4	21.4	60.0
12.982000	38.9	9.000	Off	N	10.4	21.1	60.0
13.142000	38.9	9.000	Off	N	10.4	21.1	60.0
13.240000	38.7	9.000	Off	N	10.4	21.3	60.0
13.372000	38.7	9.000	Off	N	10.4	21.3	60.0

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	17.7	9.000	Off	N	9.8	38.2	55.9
0.158000	26.1	9.000	Off	N	9.8	29.5	55.6
0.162000	26.8	9.000	Off	N	9.8	28.5	55.4
0.166000	25.5	9.000	Off	N	9.8	29.6	55.2
0.170000	18.7	9.000	Off	N	9.8	36.2	55.0
0.230000	12.6	9.000	Off	N	9.8	39.8	52.4
3.912000	23.8	9.000	Off	N	10.0	22.2	46.0
4.010000	24.3	9.000	Off	N	10.0	21.7	46.0
4.044000	24.7	9.000	Off	N	10.0	21.3	46.0
4.056000	24.3	9.000	Off	N	10.0	21.7	46.0
4.108000	24.5	9.000	Off	N	10.0	21.5	46.0
4.140000	24.3	9.000	Off	N	10.0	21.7	46.0
12.784000	29.0	9.000	Off	N	10.4	21.0	50.0
12.982000	29.5	9.000	Off	N	10.4	20.5	50.0
12.986000	29.4	9.000	Off	N	10.4	20.6	50.0
13.142000	29.2	9.000	Off	N	10.4	20.8	50.0
13.218000	29.0	9.000	Off	N	10.4	21.0	50.0
13.372000	28.4	9.000	Off	N	10.4	21.6	50.0

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11. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	09/11/2019	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/18/2019	Annual	100584
ESPAC	SU-642 /Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	05/09/2019	Annual	MY49432108
Agilent	N1911A / Power Meter	04/10/2019	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/10/2019	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/11/2019	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/24/2019	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/18/2019	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/02/2019	Annual	07560
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	05/16/2019	Annual	100422

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
TNM system	FBSM-01B / Amp & Filter Bank Switch Controller	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	04/26/2019	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/02/2019	Biennial	01039
Schwarzbeck	BBHA 9120D / Horn Antenna	06/28/2019	Biennial	1300
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	04/29/2019	Biennial	BBHA9170342
Rohde & Schwarz	FSP(9 kHz ~ 40 GHz) / Spectrum Analyzer	07/16/2019	Annual	100843
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	01/21/2020	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	02/10/2020	Annual	1
CERNEX	CBL18265035 / Power Amplifier	12/26/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/18/2019	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/26/2019	Annual	3000C000276
TNM system	FBSM-05B / HPF(3~18GHz) + LNA1(1~18GHz)	01/21/2020	Annual	F6
TNM system	FBSM-05B / ATT(10dB) + LNA1(1~18GHz)	01/21/2020	Annual	None
TNM system	FBSM-05B / ATT(3dB) + LNA1(1~18GHz)	01/21/2020	Annual	None
TNM system	FBSM-05B / LNA1(1~18GHz)	01/21/2020	Annual	25540
TNM system	FBSM-05B / HPF(7~18GHz) + LNA2(6~18GHz)	01/21/2020	Annual	28550
TNM system	FBSM-05B / Thru(30MHz ~ 18GHz)	01/21/2020	Annual	None

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

12. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2003-FC005-P