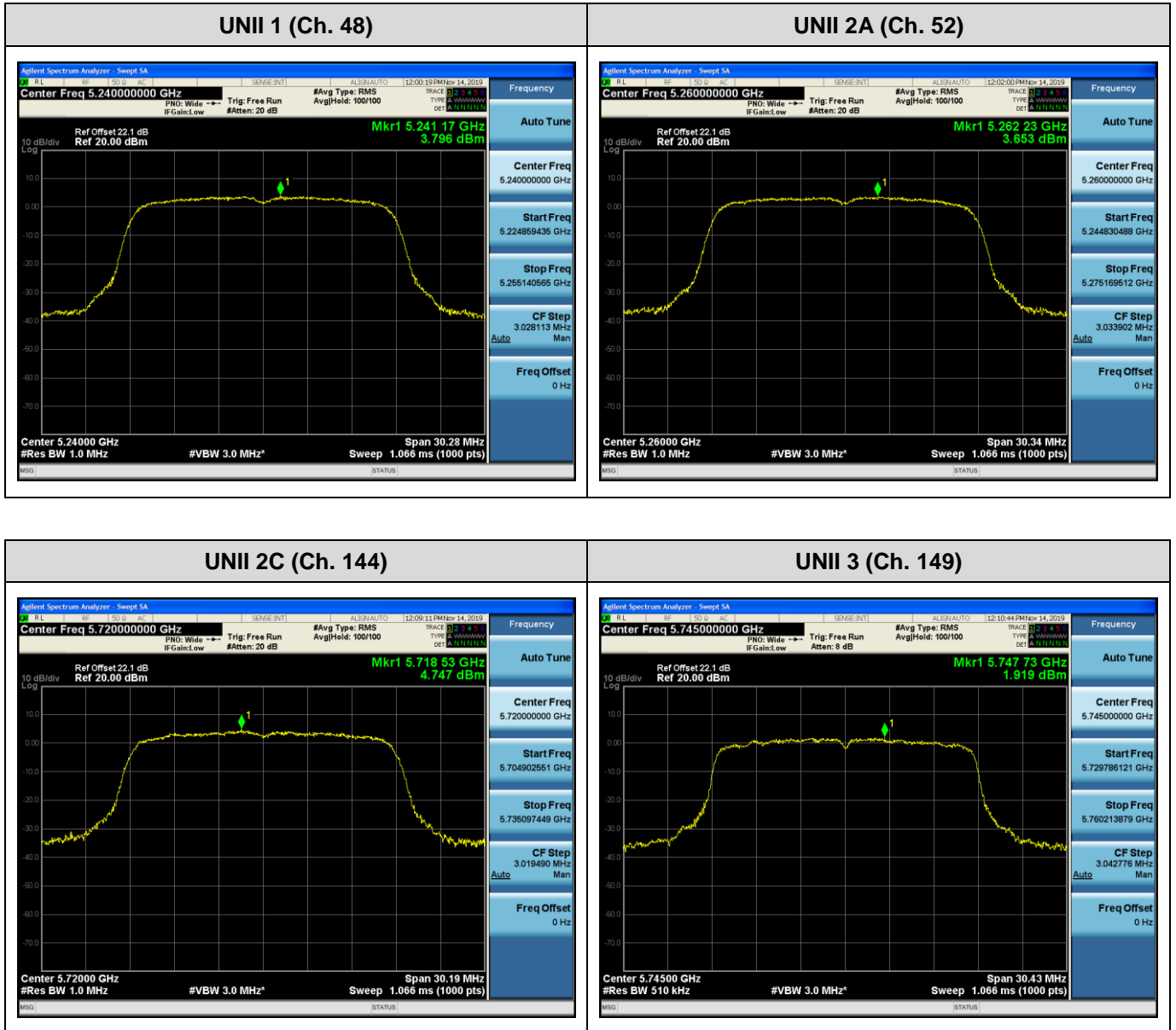


☐ Test Plots(802.11ac(VHT20))

Note:

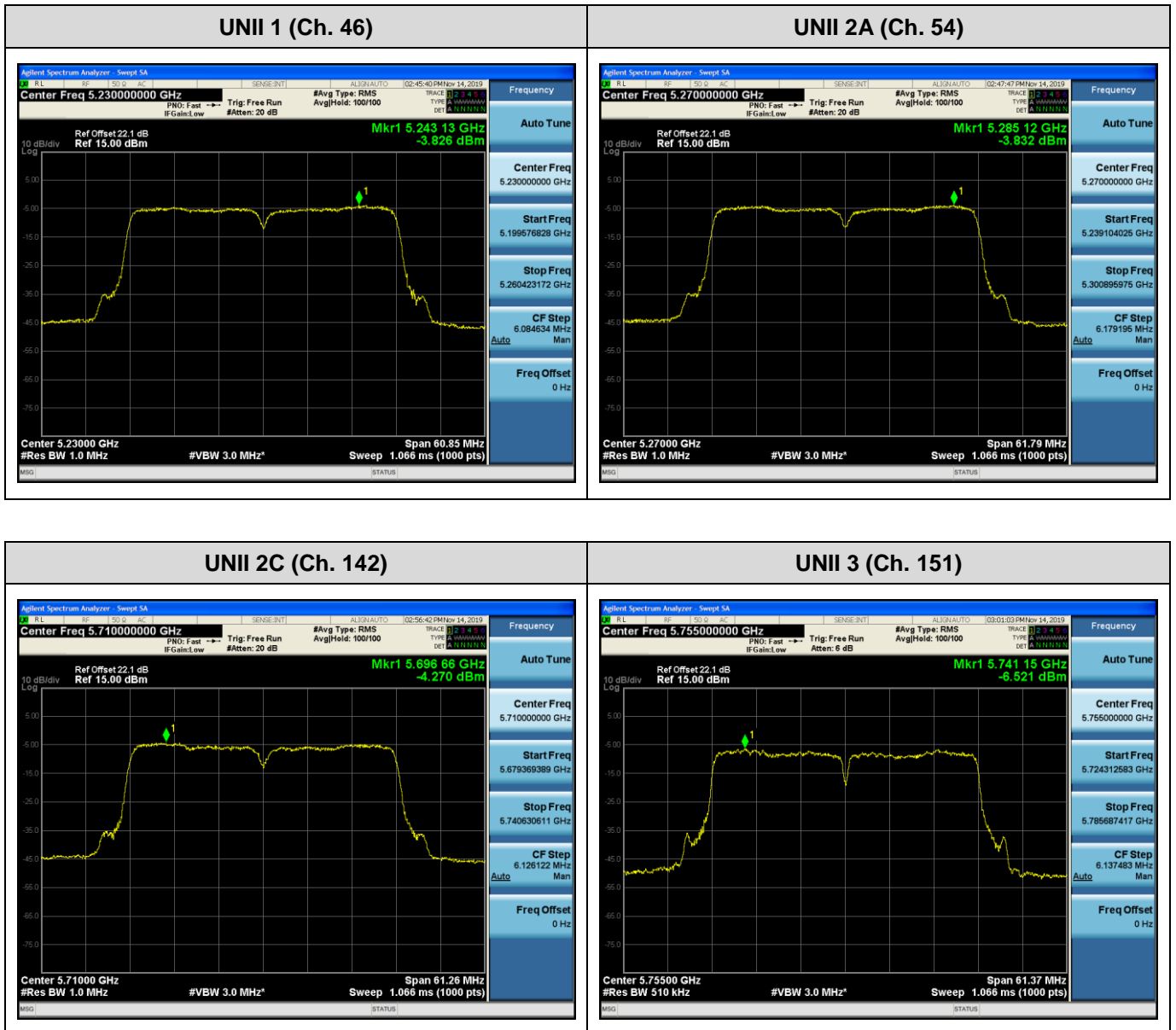
In order to simplify the report, attached plots were only channel of highest power.



☐ Test Plots(802.11ac(VHT40))

Note:

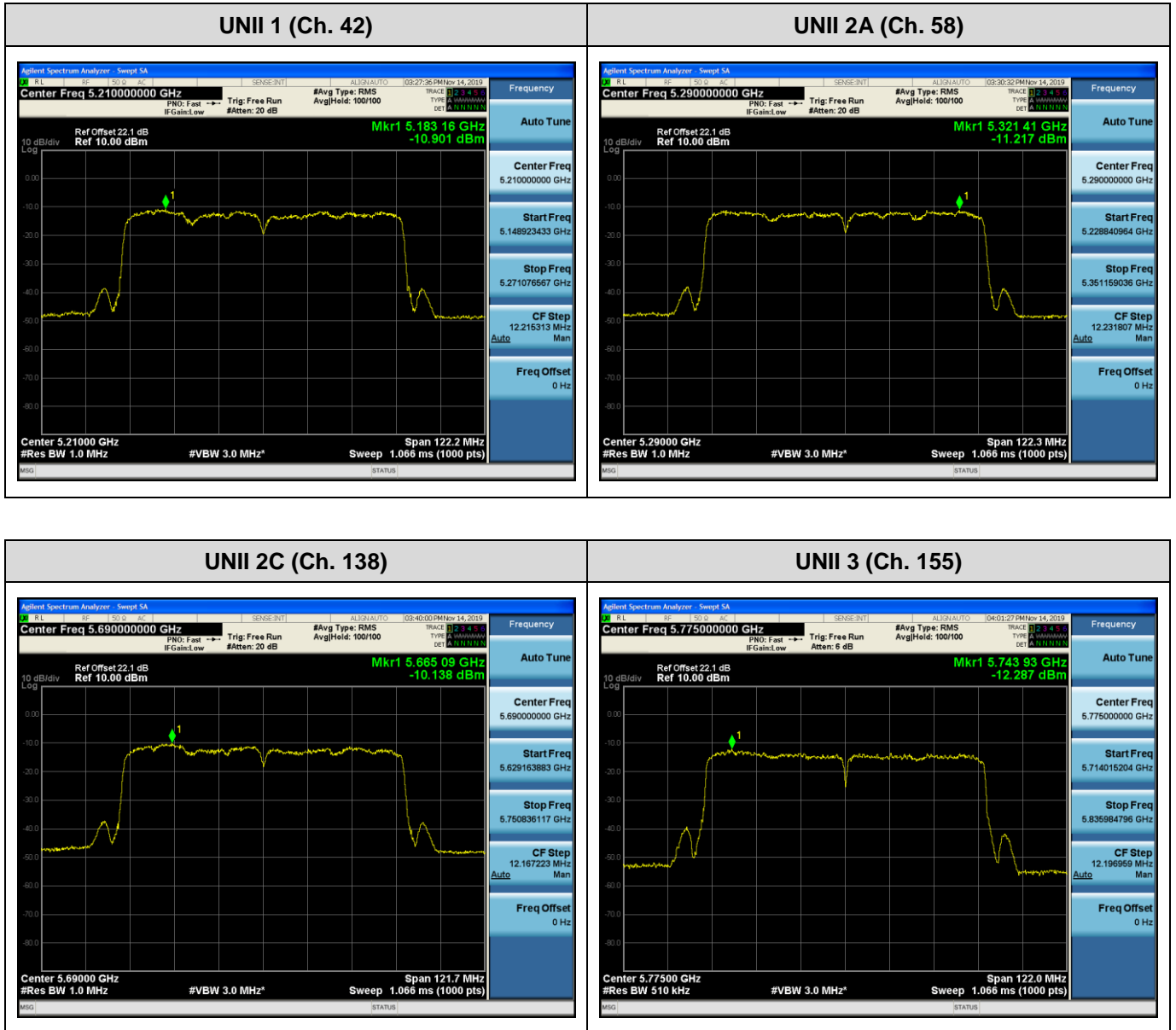
In order to simplify the report, attached plots were only channel of highest power.



☐ 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)	5210028.67	28.67
100%		-30	5210053.13	53.13
100%		-20	5210046.30	46.30
100%		-10	5210040.31	40.31
100%		0	5210035.30	35.30
100%		+10	5210033.03	33.03
100%		+30	5210031.21	31.21
100%		+40	5210039.40	39.40
100%		+50	5210044.61	44.61
Low		4.43	+20	5210045.38
High	3.40	+20	5210048.56	48.56

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)	5290029.24	29.24
100%		-30	5290052.27	52.27
100%		-20	5290045.04	45.04
100%		-10	5290039.04	39.04
100%		0	5290034.25	34.25
100%		+10	5290031.61	31.61
100%		+30	5290032.75	32.75
100%		+40	5290041.02	41.02
100%		+50	5290046.91	46.91
Low		4.43	+20	5290046.06
High	3.40	+20	5290046.44	46.44

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 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)	5530027.65	27.65
100%		-30	5530053.38	53.38
100%		-20	5530046.89	46.89
100%		-10	5530041.59	41.59
100%		0	5530038.11	38.11
100%		+10	5530034.94	34.94
100%		+30	5530031.14	31.14
100%		+40	5530039.90	39.90
100%		+50	5530044.22	44.22
Low		4.43	+20	5530044.49
High	3.40	+20	5530047.87	47.87

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)	5775031.74	31.74
100%		-30	5775051.89	51.89
100%		-20	5775045.37	45.37
100%		-10	5775038.62	38.62
100%		0	5775034.87	34.87
100%		+10	5775031.29	31.29
100%		+30	5775031.31	31.31
100%		+40	5775039.07	39.07
100%		+50	5775043.87	43.87
Low		4.43	+20	5775044.97
High	3.40	+20	5775045.98	45.98

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)	5210033.49	33.49
100%		-30	5210052.24	52.24
100%		-20	5210044.97	44.97
100%		-10	5210039.54	39.54
100%		0	5210035.36	35.36
100%		+10	5210032.04	32.04
100%		+30	5210031.83	31.83
100%		+40	5210041.66	41.66
100%		+50	5210045.15	45.15
Low		4.43	+20	5210043.66
High	3.40	+20	5210046.36	46.36

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 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)	5290031.55	31.55
100%		-30	5290053.06	53.06
100%		-20	5290046.93	46.93
100%		-10	5290040.37	40.37
100%		0	5290036.70	36.70
100%		+10	5290034.14	34.14
100%		+30	5290031.01	31.01
100%		+40	5290041.21	41.21
100%		+50	5290045.35	45.35
Low	4.43	+20	5290044.31	44.31
High	3.40	+20	5290046.35	46.35

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)	5530033.91	33.91
100%		-30	5530052.33	52.33
100%		-20	5530045.42	45.42
100%		-10	5530039.29	39.29
100%		0	5530034.97	34.97
100%		+10	5530031.59	31.59
100%		+30	5530032.61	32.61
100%		+40	5530040.49	40.49
100%		+50	5530045.25	45.25
Low		4.43	+20	5530044.93
High	3.40	+20	5530048.24	48.24

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)	5775034.16	34.16
100%		-30	5775052.34	52.34
100%		-20	5775045.86	45.86
100%		-10	5775040.02	40.02
100%		0	5775036.21	36.21
100%		+10	5775032.35	32.35
100%		+30	5775032.44	32.44
100%		+40	5775040.47	40.47
100%		+50	5775043.78	43.78
Low		4.43	+20	5775043.48
High	3.40	+20	5775047.55	47.55

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)	5210032.16	32.16
100%		-30	5210052.75	52.75
100%		-20	5210045.07	45.07
100%		-10	5210038.61	38.61
100%		0	5210035.40	35.40
100%		+10	5210033.04	33.04
100%		+30	5210030.85	30.85
100%		+40	5210040.12	40.12
100%		+50	5210045.57	45.57
Low		4.43	+20	5210045.62
High	3.40	+20	5210047.66	47.66

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)	5290035.19	35.19
100%		-30	5290053.43	53.43
100%		-20	5290046.94	46.94
100%		-10	5290039.88	39.88
100%		0	5290035.90	35.90
100%		+10	5290031.88	31.88
100%		+30	5290031.10	31.10
100%		+40	5290040.25	40.25
100%		+50	5290045.99	45.99
Low	4.43	+20	5290045.91	45.91
High	3.40	+20	5290048.18	48.18

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)	5530034.43	34.43
100%		-30	5530052.21	52.21
100%		-20	5530045.54	45.54
100%		-10	5530040.19	40.19
100%		0	5530035.68	35.68
100%		+10	5530032.09	32.09
100%		+30	5530032.18	32.18
100%		+40	5530040.26	40.26
100%		+50	5530044.24	44.24
Low		4.43	+20	5530044.15
High	3.40	+20	5530047.50	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 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)	5775035.22	35.22
100%		-30	5775051.96	51.96
100%		-20	5775044.85	44.85
100%		-10	5775038.43	38.43
100%		0	5775033.83	33.83
100%		+10	5775030.81	30.81
100%		+30	5775031.14	31.14
100%		+40	5775041.08	41.08
100%		+50	5775044.93	44.93
Low		4.43	+20	5775044.02
High	3.40	+20	5775046.18	46.18

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)	5210034.76	34.76
100%		-30	5210052.73	52.73
100%		-20	5210045.04	45.04
100%		-10	5210038.16	38.16
100%		0	5210033.44	33.44
100%		+10	5210029.96	29.96
100%		+30	5210031.16	31.16
100%		+40	5210040.49	40.49
100%		+50	5210046.16	46.16
Low		4.43	+20	5210045.84
High	3.40	+20	5210047.36	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 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)	5290036.15	36.15
100%		-30	5290052.98	52.98
100%		-20	5290044.94	44.94
100%		-10	5290038.25	38.25
100%		0	5290033.99	33.99
100%		+10	5290031.18	31.18
100%		+30	5290031.46	31.46
100%		+40	5290040.87	40.87
100%		+50	5290046.69	46.69
Low		4.43	+20	5290045.99
High	3.40	+20	5290045.81	45.81

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)	5530039.62	39.62
100%		-30	5530052.28	52.28
100%		-20	5530044.48	44.48
100%		-10	5530037.79	37.79
100%		0	5530034.40	34.40
100%		+10	5530032.13	32.13
100%		+30	5530031.73	31.73
100%		+40	5530041.62	41.62
100%		+50	5530046.80	46.80
Low		4.43	+20	5530045.35
High	3.40	+20	5530046.62	46.62

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)	5775038.78	38.78
100%		-30	5775052.69	52.69
100%		-20	5775046.36	46.36
100%		-10	5775039.38	39.38
100%		0	5775035.98	35.98
100%		+10	5775033.61	33.61
100%		+30	5775032.74	32.74
100%		+40	5775043.48	43.48
100%		+50	5775047.05	47.05
Low		4.43	+20	5775043.74
High	3.40	+20	5775045.74	45.74

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	5710.32	14.68
802.11n(HT20)				5710.16	14.84
802.11ac(VHT20)				5709.92	15.08
802.11a	UNII 3	5720	144	5729.48	4.48
802.11n(HT20)				5729.84	4.84
802.11ac(VHT20)				5730.00	5.00

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)				5689.52	35.48
802.11n(HT40)	UNII 3	5710	142	5730.16	5.16
802.11ac(VHT40)				5730.32	5.32

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11ac(VHT80)	UNII 2C	5690	138	5649.20	75.80
	UNII 3	5690	138	5730.68	5.68

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

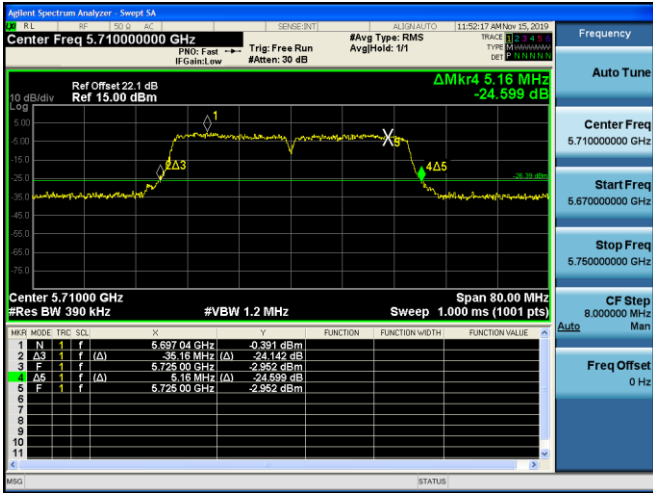


802.11ac(VHT20) UNII Band



☐ Test Plots (26dB Bandwidth)

802.11n(HT40) UNII Band



802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band



10.7.2 6dB Bandwidth

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5728.20	3.20	> 0.5
802.11n(HT20)				5727.92	2.92	> 0.5
802.11ac(VHT20)				5727.96	2.96	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.92	2.92	> 0.5
802.11ac(VHT40)				5728.00	3.00	> 0.5

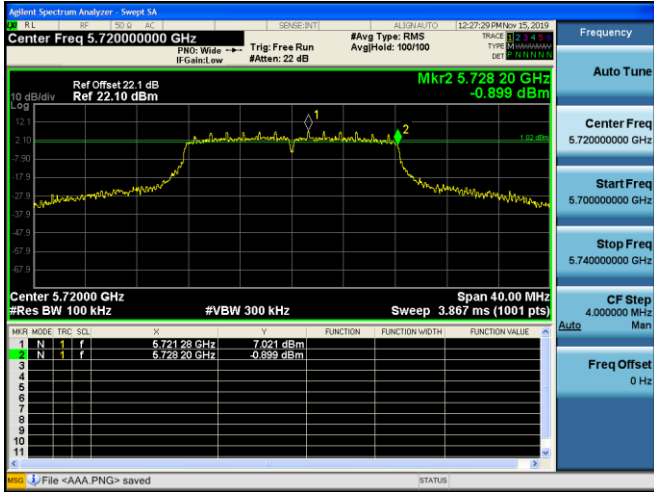
Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5727.76	2.76	> 0.5

Note:

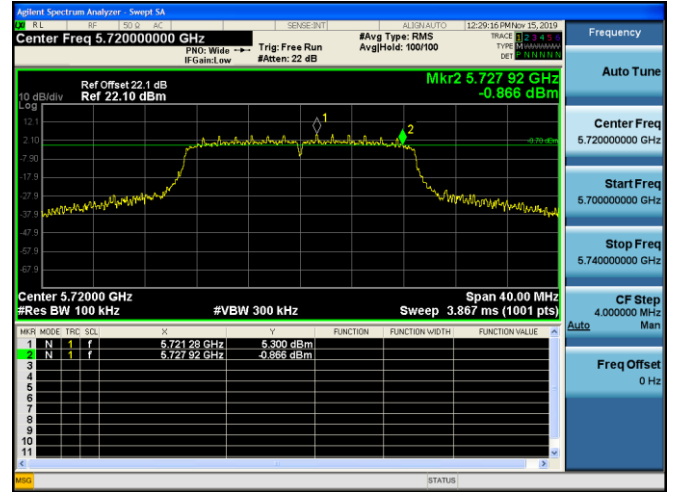
6dB Bandwidth = Measured Frequency[MHz] – 5725MHz

☐ Test Plots(UNII 3 Band 6dB Bandwidth)

802.11a CH.144



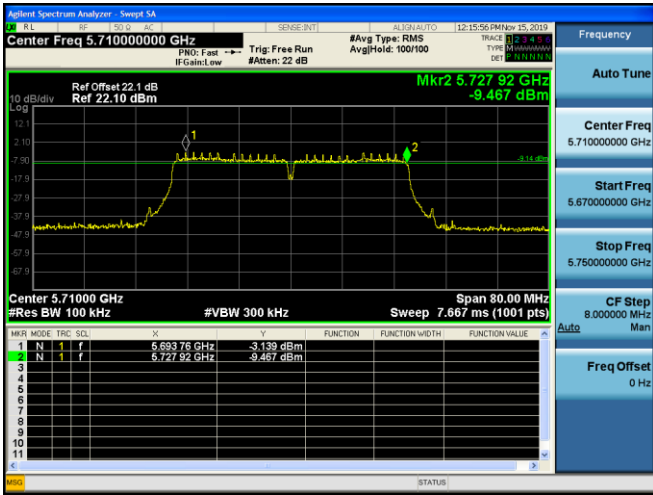
802.11n_HT20 CH.144



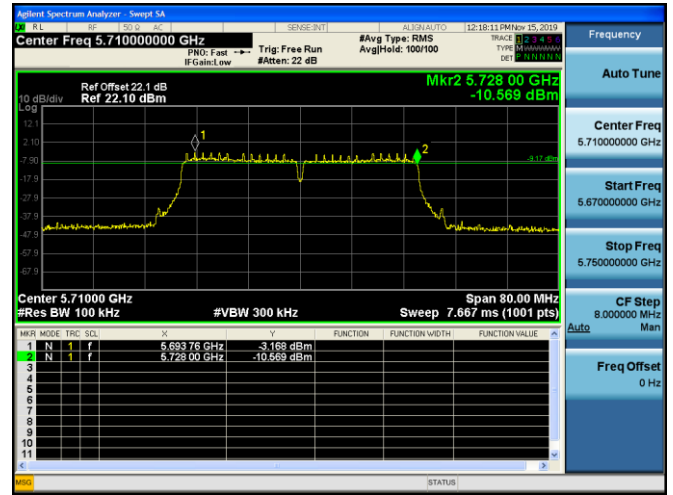
802.11ac_VHT20 CH.144



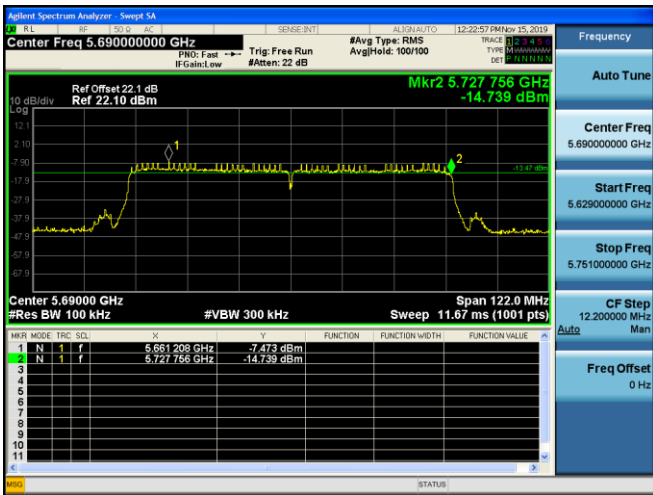
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

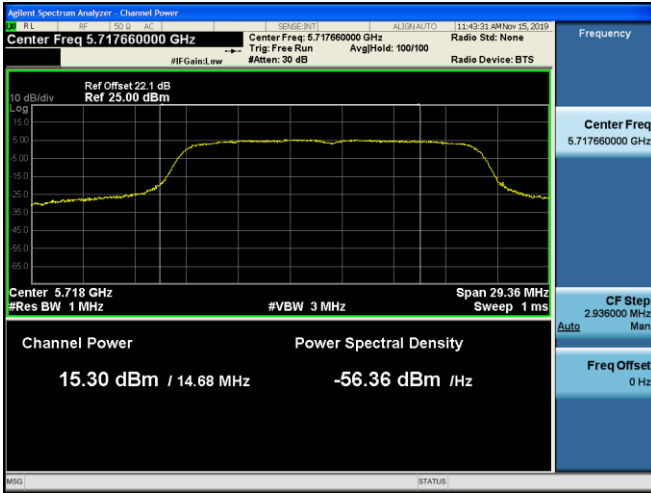
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	15.30	1.494	16.79	22.67
802.11n(HT20)			13.33	1.473	14.80	22.71
802.11ac(VHT20)			13.20	1.485	14.69	22.78
802.11a	5720 (UNII 3 Band)	144	8.39	1.494	9.88	30.00
802.11n(HT20)			6.65	1.473	8.12	30.00
802.11ac(VHT20)			6.50	1.485	7.99	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	8.23	2.526	10.76	23.98
802.11ac(VHT40)			8.27	2.352	10.62	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	-1.96	2.526	0.57	30.00
802.11ac(VHT40)			-1.99	2.352	0.36	30.00

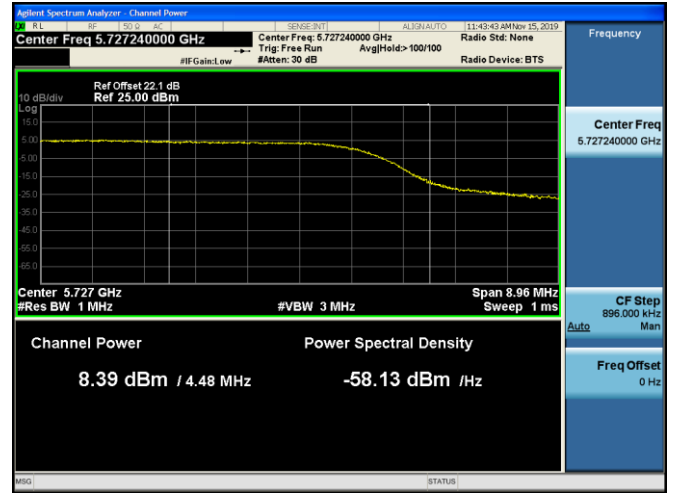
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	6.41	3.323	9.73	23.98
	5690 (UNII 3 Band)	138	-7.99	3.323	-4.67	30.00

☐ Test Plots

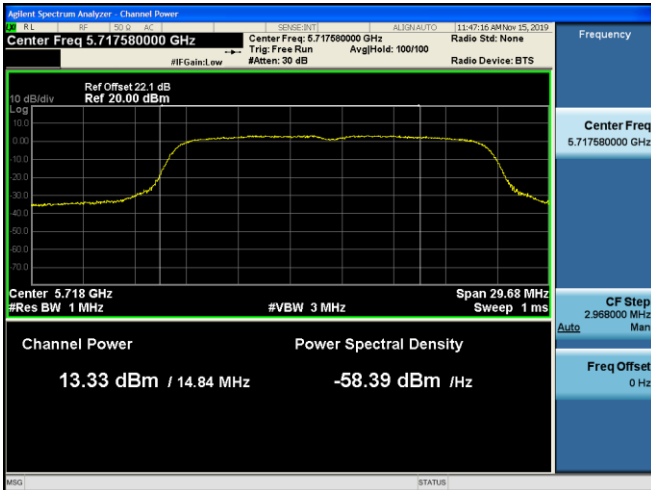
802.11a UNII 2C Band



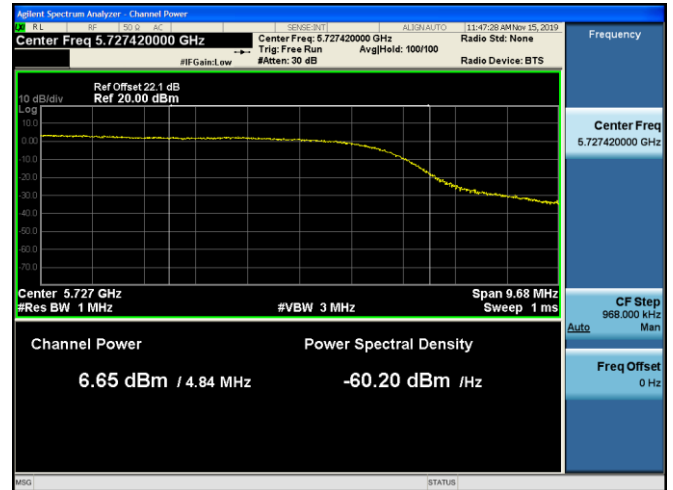
802.11a UNII 3 Band



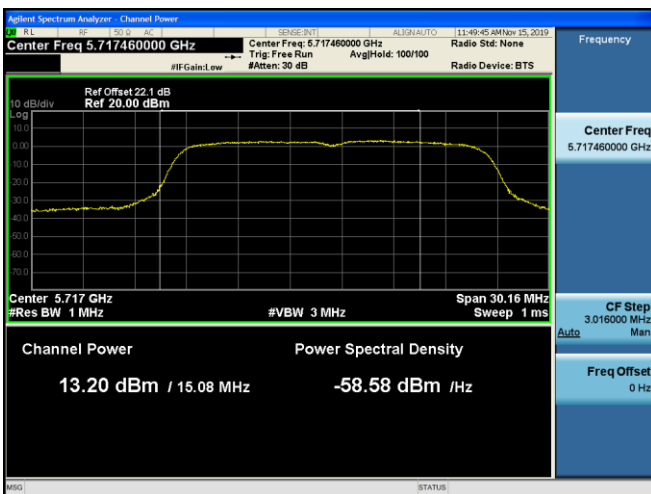
802.11n(HT20) UNII 2C Band



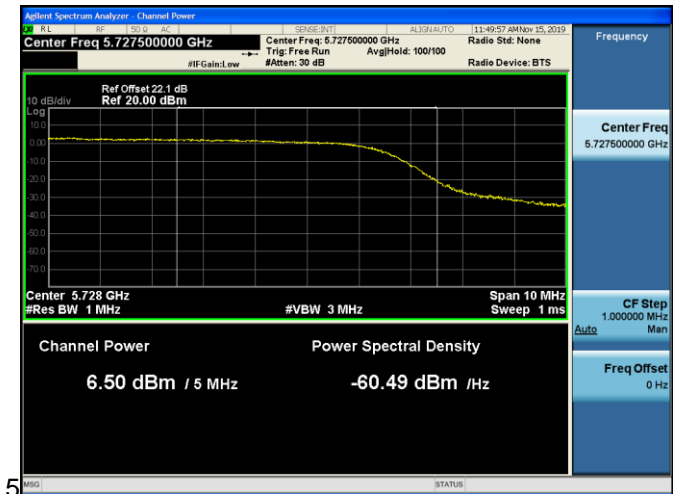
802.11n(HT20) UNII 3 Band



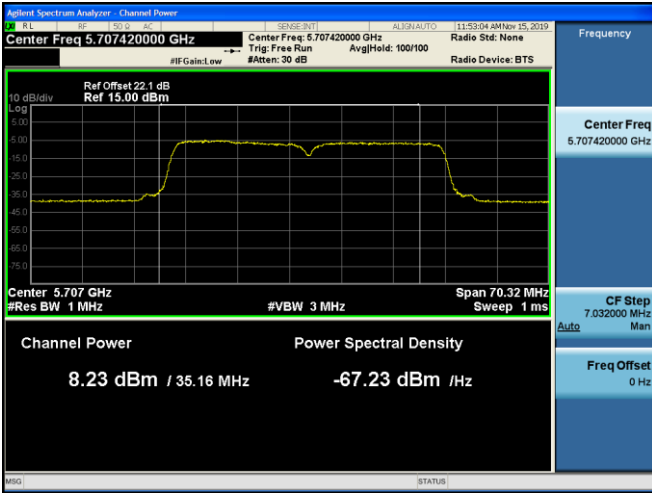
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



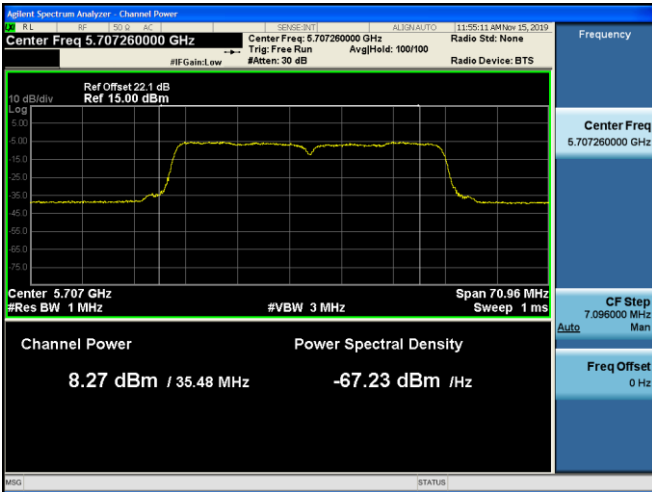
802.11n(HT40) UNII 2C Band



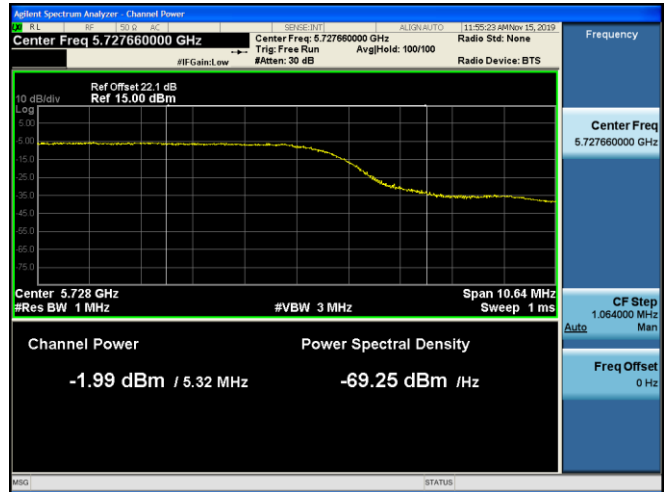
802.11n(HT40) UNII 3 Band



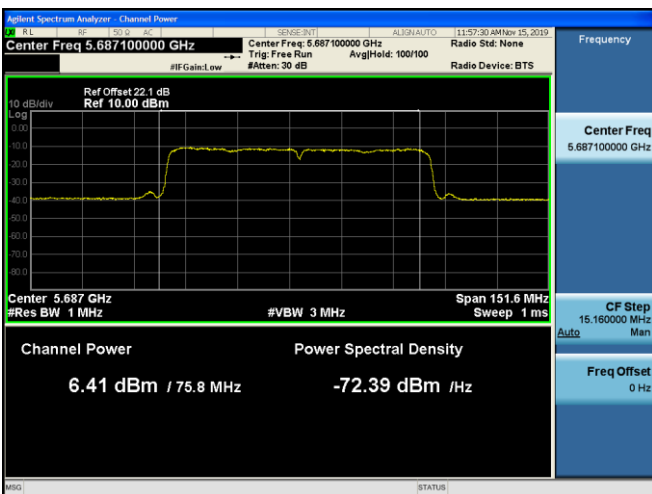
802.11ac(VHT40) UNII 2C Band



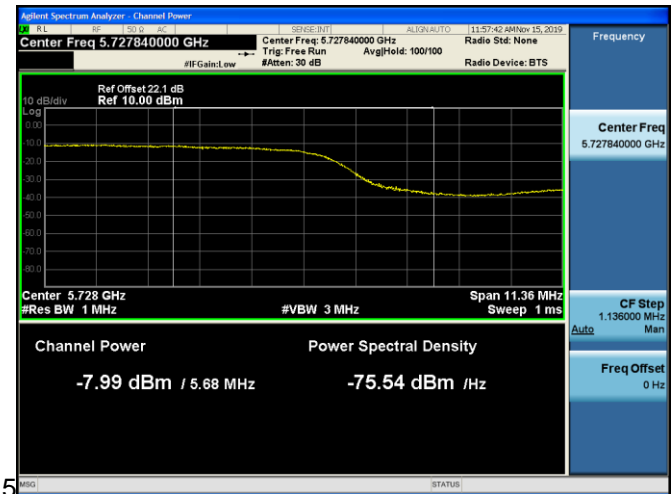
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



5

10.7.4 Power Spectral Density

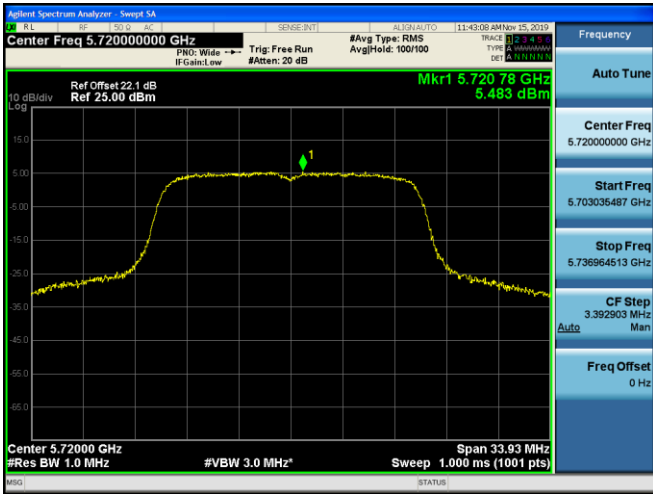
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	5.483	1.494	6.977	11.00
802.11n(HT20)			3.527	1.473	5.000	11.00
802.11ac(VHT20)			3.633	1.485	5.118	11.00
802.11a	5720 (UNII 3 Band)	144	1.562	1.494	3.056	30.00
802.11n(HT20)			-0.271	1.473	1.202	30.00
802.11ac(VHT20)			-0.039	1.485	1.446	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	-4.909	2.526	-2.383	11.00
802.11ac(VHT40)			-4.787	2.352	-2.435	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-8.528	2.526	-6.002	30.00
802.11ac(VHT40)			-8.996	2.352	-6.644	30.00

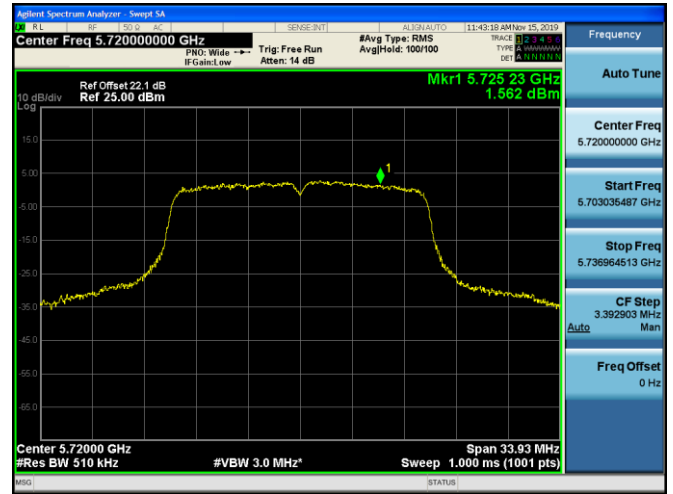
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-10.217	3.323	-6.894	11.00
	5690 (UNII 3 Band)	138	-14.617	3.323	-11.294	30.00

☐ Test Plots

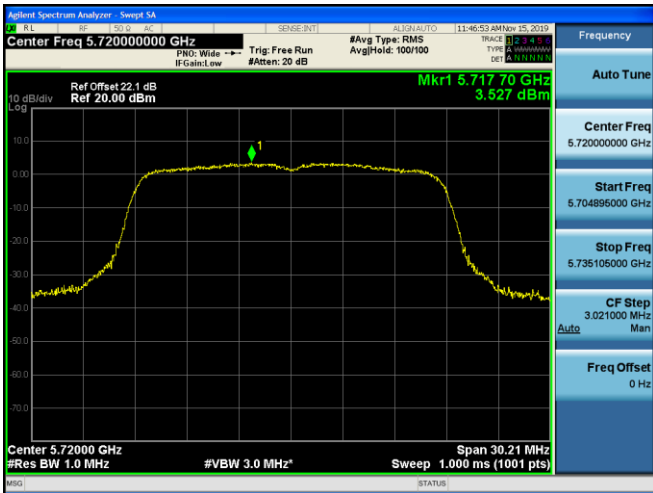
802.11a UNII 2C Band



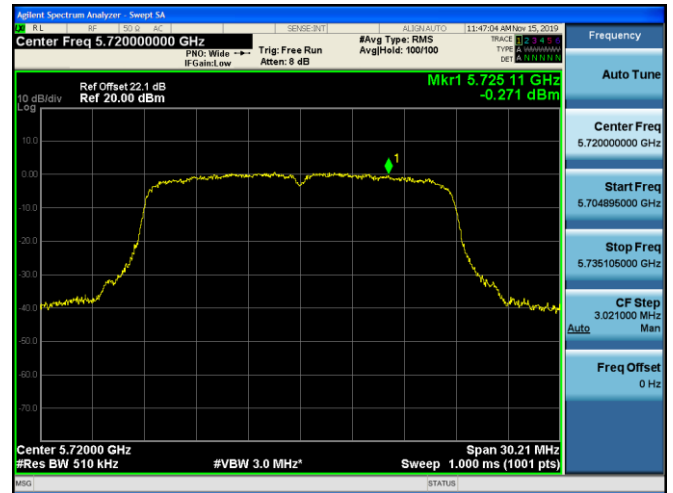
802.11a UNII 3 Band



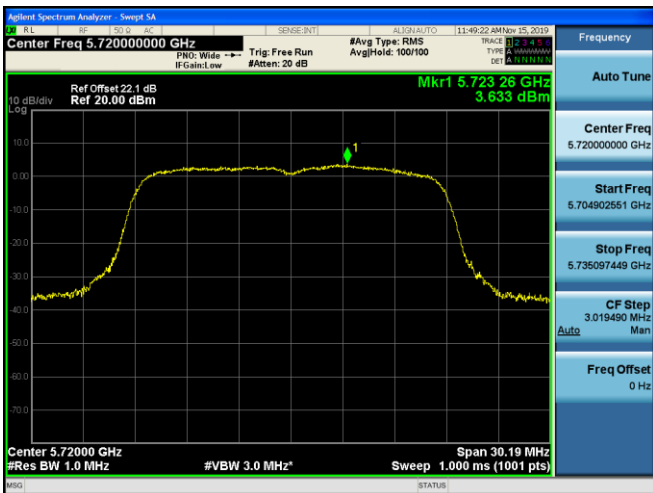
802.11n(HT20) UNII 2C Band



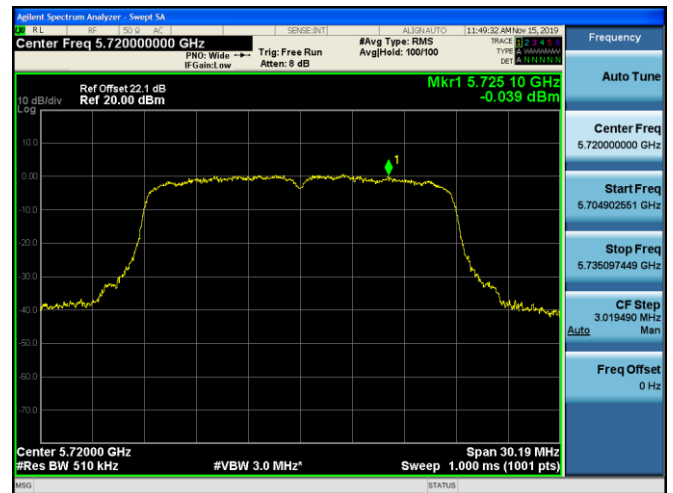
802.11n(HT20) UNII 3 Band



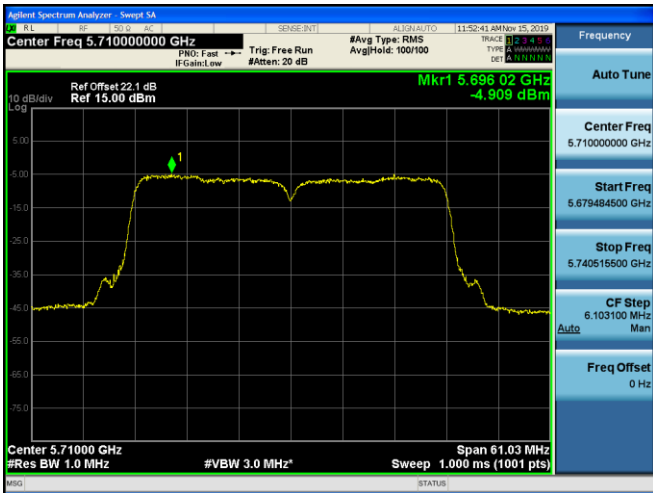
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



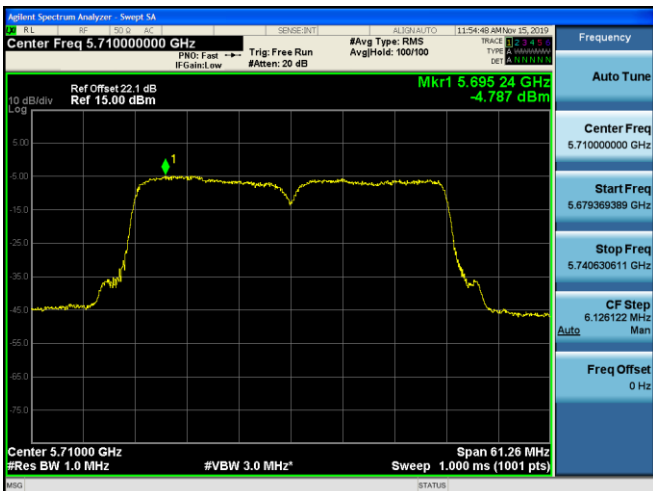
802.11n(HT40) UNII 2C Band



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



10.8 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	49.90	6.89	V	56.79	68.20	11.41	PK
15540	45.72	12.57	V	58.29	73.98	15.69	PK
15540	31.92	12.57	V	44.49	53.98	9.49	AV
10360	48.61	6.89	H	55.50	68.20	12.70	PK
15540	44.96	12.57	H	57.53	73.98	16.45	PK
15540	31.85	12.57	H	44.42	53.98	9.56	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	49.59	6.94	V	56.53	68.20	11.67	PK
15600	44.66	11.47	V	56.13	73.98	17.85	PK
15600	31.37	11.47	V	42.84	53.98	11.14	AV
10400	48.66	6.94	H	55.60	68.20	12.60	PK
15600	43.79	11.47	H	55.26	73.98	18.72	PK
15600	31.02	11.47	H	42.49	53.98	11.49	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	48.22	7.65	V	55.87	68.20	12.33	PK
15720	44.24	11.66	V	55.90	73.98	18.08	PK
15720	30.78	11.66	V	42.44	53.98	11.54	AV
10480	47.94	7.65	H	55.59	68.20	12.61	PK
15720	43.66	11.66	H	55.32	73.98	18.66	PK
15720	30.69	11.66	H	42.35	53.98	11.63	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	48.11	8.33	V	56.44	68.20	11.76	PK
15780	46.25	12.21	V	58.46	73.98	15.52	PK
15780	29.88	12.21	V	42.09	53.98	11.89	AV
10520	47.72	8.33	H	56.05	68.20	12.15	PK
15780	42.16	12.21	H	54.37	73.98	19.61	PK
15780	29.59	12.21	H	41.80	53.98	12.18	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	48.06	8.85	V	56.91	73.98	17.07	PK
10600	34.91	8.85	V	43.76	53.98	10.22	AV
15900	43.86	11.90	V	55.76	73.98	18.22	PK
15900	30.64	11.90	V	42.54	53.98	11.44	AV
10600	47.51	8.85	H	56.36	73.98	17.62	PK
10600	34.51	8.85	H	43.36	53.98	10.62	AV
15900	42.35	11.90	H	54.25	73.98	19.73	PK
15900	30.55	11.90	H	42.45	53.98	11.53	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	45.57	9.25	V	54.82	73.98	19.16	PK
10640	32.81	9.25	V	42.06	53.98	11.92	AV
15960	44.43	10.55	V	54.98	73.98	19.00	PK
15960	30.55	10.55	V	41.10	53.98	12.88	AV
10640	44.70	9.25	H	53.95	73.98	20.03	PK
10640	32.16	9.25	H	41.41	53.98	12.57	AV
15960	43.21	10.55	H	53.76	73.98	20.22	PK
15960	30.41	10.55	H	40.96	53.98	13.02	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	44.44	10.23	V	54.67	73.98	19.31	PK
11000	31.60	10.23	V	41.83	53.98	12.15	AV
16500	45.00	11.62	V	56.62	68.20	11.58	PK
11000	43.55	10.23	H	53.78	73.98	20.20	PK
11000	31.26	10.23	H	41.49	53.98	12.49	AV
16500	44.84	11.62	H	56.46	68.20	11.74	PK

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5580 MHz
 Channel No. 116 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
11160	43.62	10.09	V	53.71	73.98	20.27	PK
11160	30.65	10.09	V	40.74	53.98	13.24	AV
16740	45.04	11.27	V	56.31	68.20	11.89	PK
11160	42.18	10.09	H	52.27	73.98	21.71	PK
11160	29.49	10.09	H	39.58	53.98	14.40	AV
16740	44.99	11.27	H	56.26	68.20	11.94	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	45.23	9.39	V	54.62	73.98	19.36	PK
11440	32.17	9.39	V	41.56	53.98	12.42	AV
17160	44.76	12.91	V	57.67	68.20	10.53	PK
11440	44.48	9.39	H	53.87	73.98	20.11	PK
11440	31.26	9.39	H	40.65	53.98	13.33	AV
17160	44.11	12.91	H	57.02	68.20	11.18	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	45.56	9.31	V	54.87	73.98	19.11	PK
11490	33.33	9.31	V	42.64	53.98	11.34	AV
17235	44.55	14.49	V	59.04	68.20	9.16	PK
11490	45.19	9.31	H	54.50	73.98	19.48	PK
11490	32.91	9.31	H	42.22	53.98	11.76	AV
17235	44.15	14.49	H	58.64	68.20	9.56	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	44.08	9.38	V	53.46	73.98	20.52	PK
11570	31.64	9.38	V	41.02	53.98	12.96	AV
17355	44.29	15.74	V	60.03	68.20	8.17	PK
11570	43.45	9.38	H	52.83	73.98	21.15	PK
11570	30.99	9.38	H	40.37	53.98	13.61	AV
17355	44.16	15.74	H	59.90	68.20	8.30	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	46.08	8.33	V	54.41	73.98	19.57	PK
11650	33.99	8.33	V	42.32	53.98	11.66	AV
17475	45.34	16.79	V	62.13	68.20	6.07	PK
11650	45.26	8.33	H	53.59	73.98	20.39	PK
11650	33.28	8.33	H	41.61	53.98	12.37	AV
17475	44.43	16.79	H	61.22	68.20	6.98	PK

Report No.: HCT-RF-1911-FI022-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	48.60	6.89	V	55.49	68.20	12.71	PK
15540	45.15	12.57	V	57.72	73.98	16.26	PK
15540	31.82	12.57	V	44.39	53.98	9.59	AV
10360	48.13	6.89	H	55.02	68.20	13.18	PK
15540	44.92	12.57	H	57.49	73.98	16.49	PK
15540	30.76	12.57	H	43.33	53.98	10.65	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	48.07	6.94	V	55.01	68.20	13.19	PK
15600	44.63	11.47	V	56.10	73.98	17.88	PK
15600	31.29	11.47	V	42.76	53.98	11.22	AV
10400	46.69	6.94	H	53.63	68.20	14.57	PK
15600	43.85	11.47	H	55.32	73.98	18.66	PK
15600	30.30	11.47	H	41.77	53.98	12.21	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	46.73	7.65	V	54.38	68.20	13.82	PK
15720	44.67	11.66	V	56.33	73.98	17.65	PK
15720	30.86	11.66	V	42.52	53.98	11.46	AV
10480	45.27	7.65	H	52.92	68.20	15.28	PK
15720	43.50	11.66	H	55.16	73.98	18.82	PK
15720	30.67	11.66	H	42.33	53.98	11.65	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	47.65	8.33	V	55.98	68.20	12.22	PK
15780	43.64	12.21	V	55.85	73.98	18.13	PK
15780	29.85	12.21	V	42.06	53.98	11.92	AV
10520	46.95	8.33	H	55.28	68.20	12.92	PK
15780	43.04	12.21	H	55.25	73.98	18.73	PK
15780	29.76	12.21	H	41.97	53.98	12.01	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	46.52	8.85	V	55.37	73.98	18.61	PK
10600	33.29	8.85	V	42.14	53.98	11.84	AV
15900	44.07	11.90	V	55.97	73.98	18.01	PK
15900	30.76	11.90	V	42.66	53.98	11.32	AV
10600	45.96	8.85	H	54.81	73.98	19.17	PK
10600	32.24	8.85	H	41.09	53.98	12.89	AV
15900	42.81	11.90	H	54.71	73.98	19.27	PK
15900	30.53	11.90	H	42.43	53.98	11.55	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	44.89	9.25	V	54.14	73.98	19.84	PK
10640	31.93	9.25	V	41.18	53.98	12.80	AV
15960	43.81	10.55	V	54.36	73.98	19.62	PK
15960	30.57	10.55	V	41.12	53.98	12.86	AV
10640	43.56	9.25	H	52.81	73.98	21.17	PK
10640	30.71	9.25	H	39.96	53.98	14.02	AV
15960	42.91	10.55	H	53.46	73.98	20.52	PK
15960	30.10	10.55	H	40.65	53.98	13.33	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	43.60	10.23	V	53.83	73.98	20.15	PK
11000	31.36	10.23	V	41.59	53.98	12.39	AV
16500	44.58	11.62	V	56.20	68.20	12.00	PK
11000	42.97	10.23	H	53.20	73.98	20.78	PK
11000	30.98	10.23	H	41.21	53.98	12.77	AV
16500	43.82	11.62	H	55.44	68.20	12.76	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5580 MHz
 Channel No. 116 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
11160	43.40	10.09	V	53.49	73.98	20.49	PK
11160	30.20	10.09	V	40.29	53.98	13.69	AV
16740	45.18	11.27	V	56.45	68.20	11.75	PK
11160	42.21	10.09	H	52.30	73.98	21.68	PK
11160	30.13	10.09	H	40.22	53.98	13.76	AV
16740	44.90	11.27	H	56.17	68.20	12.03	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	43.82	9.39	V	53.21	73.98	20.77	PK
11440	31.83	9.39	V	41.22	53.98	12.76	AV
17160	44.66	12.91	V	57.57	68.20	10.63	PK
11440	42.88	9.39	H	52.27	73.98	21.71	PK
11440	31.24	9.39	H	40.63	53.98	13.35	AV
17160	43.67	12.91	H	56.58	68.20	11.62	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	45.55	9.31	V	54.86	73.98	19.12	PK
11490	32.23	9.31	V	41.54	53.98	12.44	AV
17235	45.29	14.49	V	59.78	68.20	8.42	PK
11490	44.47	9.31	H	53.78	73.98	20.20	PK
11490	31.05	9.31	H	40.36	53.98	13.62	AV
17235	44.49	14.49	H	58.98	68.20	9.22	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	44.66	9.38	V	54.04	73.98	19.94	PK
11570	31.71	9.38	V	41.09	53.98	12.89	AV
17355	44.91	15.74	V	60.65	68.20	7.55	PK
11570	43.87	9.38	H	53.25	73.98	20.73	PK
11570	31.35	9.38	H	40.73	53.98	13.25	AV
17355	43.84	15.74	H	59.58	68.20	8.62	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	45.55	8.33	V	53.88	73.98	20.10	PK
11650	33.67	8.33	V	42.00	53.98	11.98	AV
17475	45.06	16.79	V	61.85	68.20	6.35	PK
11650	44.93	8.33	H	53.26	73.98	20.72	PK
11650	32.69	8.33	H	41.02	53.98	12.96	AV
17475	44.62	16.79	H	61.41	68.20	6.79	PK

Report No.: HCT-RF-1911-FI022-R1

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	48.92	6.89	V	55.81	68.20	12.39	PK
15540	45.19	12.57	V	57.76	73.98	16.22	PK
15540	31.99	12.57	V	44.56	53.98	9.42	AV
10360	47.90	6.89	H	54.79	68.20	13.41	PK
15540	45.02	12.57	H	57.59	73.98	16.39	PK
15540	31.75	12.57	H	44.32	53.98	9.66	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	48.03	6.94	V	54.97	68.20	13.23	PK
15600	44.78	11.47	V	56.25	73.98	17.73	PK
15600	31.32	11.47	V	42.79	53.98	11.19	AV
10400	47.02	6.94	H	53.96	68.20	14.24	PK
15600	44.42	11.47	H	55.89	73.98	18.09	PK
15600	31.23	11.47	H	42.70	53.98	11.28	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	46.61	7.65	V	54.26	68.20	13.94	PK
15720	44.27	11.66	V	55.93	73.98	18.05	PK
15720	30.84	11.66	V	42.50	53.98	11.48	AV
10480	44.99	7.65	H	52.64	68.20	15.56	PK
15720	43.41	11.66	H	55.07	73.98	18.91	PK
15720	30.62	11.66	H	42.28	53.98	11.70	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	47.08	8.33	V	55.41	68.20	12.79	PK
15780	43.77	12.21	V	55.98	73.98	18.00	PK
15780	30.01	12.21	V	42.22	53.98	11.76	AV
10520	45.85	8.33	H	54.18	68.20	14.02	PK
15780	42.66	12.21	H	54.87	73.98	19.11	PK
15780	29.75	12.21	H	41.96	53.98	12.02	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	47.13	8.85	V	55.98	73.98	18.00	PK
10600	34.05	8.85	V	42.90	53.98	11.08	AV
15900	44.48	11.90	V	56.38	73.98	17.60	PK
15900	30.63	11.90	V	42.53	53.98	11.45	AV
10600	46.12	8.85	H	54.97	73.98	19.01	PK
10600	32.72	8.85	H	41.57	53.98	12.41	AV
15900	43.10	11.90	H	55.00	73.98	18.98	PK
15900	30.57	11.90	H	42.47	53.98	11.51	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	46.25	9.25	V	55.50	73.98	18.48	PK
10640	31.95	9.25	V	41.20	53.98	12.78	AV
15960	45.33	10.55	V	55.88	73.98	18.10	PK
15960	30.59	10.55	V	41.14	53.98	12.84	AV
10640	44.11	9.25	H	53.36	73.98	20.62	PK
10640	30.88	9.25	H	40.13	53.98	13.85	AV
15960	44.85	10.55	H	55.40	73.98	18.58	PK
15960	30.33	10.55	H	40.88	53.98	13.10	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	43.85	10.23	V	54.08	73.98	19.90	PK
11000	31.55	10.23	V	41.78	53.98	12.20	AV
16500	44.80	11.62	V	56.42	68.20	11.78	PK
11000	42.67	10.23	H	52.90	73.98	21.08	PK
11000	31.17	10.23	H	41.40	53.98	12.58	AV
16500	43.87	11.62	H	55.49	68.20	12.71	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5580 MHz
 Channel No. 116 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
11160	43.49	10.09	V	53.58	73.98	20.40	PK
11160	30.35	10.09	V	40.44	53.98	13.54	AV
16740	45.34	11.27	V	56.61	68.20	11.59	PK
11160	42.54	10.09	H	52.63	73.98	21.35	PK
11160	30.10	10.09	H	40.19	53.98	13.79	AV
16740	44.88	11.27	H	56.15	68.20	12.05	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	43.85	9.39	V	53.24	73.98	20.74	PK
11440	31.59	9.39	V	40.98	53.98	13.00	AV
17160	45.02	12.91	V	57.93	68.20	10.27	PK
11440	42.78	9.39	H	52.17	73.98	21.81	PK
11440	30.76	9.39	H	40.15	53.98	13.83	AV
17160	44.31	12.91	H	57.22	68.20	10.98	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	45.14	9.31	V	54.45	73.98	19.53	PK
11490	32.46	9.31	V	41.77	53.98	12.21	AV
17235	44.84	14.49	V	59.33	68.20	8.87	PK
11490	44.74	9.31	H	54.05	73.98	19.93	PK
11490	32.23	9.31	H	41.54	53.98	12.44	AV
17235	43.57	14.49	H	58.06	68.20	10.14	PK

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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	45.04	9.38	V	54.42	73.98	19.56	PK
11570	32.89	9.38	V	42.27	53.98	11.71	AV
17355	44.66	15.74	V	60.40	68.20	7.80	PK
11570	44.02	9.38	H	53.40	73.98	20.58	PK
11570	31.88	9.38	H	41.26	53.98	12.72	AV
17355	44.30	15.74	H	60.04	68.20	8.16	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	45.75	8.33	V	54.08	73.98	19.90	PK
11650	33.41	8.33	V	41.74	53.98	12.24	AV
17475	44.76	16.79	V	61.55	68.20	6.65	PK
11650	45.02	8.33	H	53.35	73.98	20.63	PK
11650	32.87	8.33	H	41.20	53.98	12.78	AV
17475	44.21	16.79	H	61.00	68.20	7.20	PK

Report No.: HCT-RF-1911-FI022-R1

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	46.02	6.54	V	52.56	68.20	15.64	PK
15570	45.31	11.95	V	57.26	73.98	16.72	PK
15570	32.12	11.95	V	44.07	53.98	9.91	AV
10380	45.44	6.54	H	51.98	68.20	16.22	PK
15570	44.10	11.95	H	56.05	73.98	17.93	PK
15570	31.86	11.95	H	43.81	53.98	10.17	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	45.23	7.97	V	53.20	68.20	15.00	PK
15690	44.29	12.00	V	56.29	73.98	17.69	PK
15690	31.38	12.00	V	43.38	53.98	10.60	AV
10460	44.04	7.97	H	52.01	68.20	16.19	PK
15690	43.62	12.00	H	55.62	73.98	18.36	PK
15690	30.92	12.00	H	42.92	53.98	11.06	AV

Report No.: HCT-RF-1911-FI022-R1

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	45.42	8.71	V	54.13	68.20	14.07	PK
15810	42.93	11.51	V	54.44	73.98	19.54	PK
15810	30.07	11.51	V	41.58	53.98	12.40	AV
10540	45.03	8.71	H	53.74	68.20	14.46	PK
15810	41.15	11.51	H	52.66	73.98	21.32	PK
15810	29.98	11.51	H	41.49	53.98	12.49	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	44.39	8.62	V	53.01	73.98	20.97	PK
10620	31.64	8.62	V	40.26	53.98	13.72	AV
15930	44.21	10.63	V	54.84	73.98	19.14	PK
15930	31.28	10.63	V	41.91	53.98	12.07	AV
10620	43.16	8.62	H	51.78	73.98	22.20	PK
10620	30.35	8.62	H	38.97	53.98	15.01	AV
15930	43.50	10.63	H	54.13	73.98	19.85	PK
15930	30.25	10.63	H	40.88	53.98	13.10	AV

Report No.: HCT-RF-1911-FI022-R1

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	43.55	9.89	V	53.44	73.98	20.54	PK
11020	31.03	9.89	V	40.92	53.98	13.06	AV
16530	45.53	11.59	V	57.12	68.20	11.08	PK
11020	42.93	9.89	H	52.82	73.98	21.16	PK
11020	30.55	9.89	H	40.44	53.98	13.54	AV
16530	44.66	11.59	H	56.25	68.20	11.95	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5550 MHz
 Channel No. 110 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
11100	41.96	9.73	V	51.69	73.98	22.29	PK
11100	30.26	9.73	V	39.99	53.98	13.99	AV
16650	45.07	11.12	V	56.19	68.20	12.01	PK
11100	40.92	9.73	H	50.65	73.98	23.33	PK
11100	30.18	9.73	H	39.91	53.98	14.07	AV
16650	44.09	11.12	H	55.21	68.20	12.99	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	43.38	9.18	V	52.56	73.98	21.42	PK
11420	30.46	9.18	V	39.64	53.98	14.34	AV
17130	44.51	13.20	V	57.71	68.20	10.49	PK
11420	42.11	9.18	H	51.29	73.98	22.69	PK
11420	30.11	9.18	H	39.29	53.98	14.69	AV
17130	43.81	13.20	H	57.01	68.20	11.19	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	43.07	9.19	V	52.26	73.98	21.72	PK
11510	31.90	9.19	V	41.09	53.98	12.89	AV
17265	44.59	14.32	V	58.91	68.20	9.29	PK
11510	42.89	9.19	H	52.08	73.98	21.90	PK
11510	31.12	9.19	H	40.31	53.98	13.67	AV
17265	43.80	14.32	H	58.12	68.20	10.08	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	43.93	9.46	V	53.39	73.98	20.59	PK
11590	32.16	9.46	V	41.62	53.98	12.36	AV
17385	44.92	15.37	V	60.29	68.20	7.91	PK
11590	42.31	9.46	H	51.77	73.98	22.21	PK
11590	31.81	9.46	H	41.27	53.98	12.71	AV
17385	43.35	15.37	H	58.72	68.20	9.48	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	46.08	6.54	V	52.62	68.20	15.58	PK
15570	45.02	11.95	V	56.97	73.98	17.01	PK
15570	32.29	11.95	V	44.24	53.98	9.74	AV
10380	44.87	6.54	H	51.41	68.20	16.79	PK
15570	44.30	11.95	H	56.25	73.98	17.73	PK
15570	31.98	11.95	H	43.93	53.98	10.05	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	44.06	7.97	V	52.03	68.20	16.17	PK
15690	44.14	12.00	V	56.14	73.98	17.84	PK
15690	31.52	12.00	V	43.52	53.98	10.46	AV
10460	43.75	7.97	H	51.72	68.20	16.48	PK
15690	43.87	12.00	H	55.87	73.98	18.11	PK
15690	31.30	12.00	H	43.30	53.98	10.68	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	46.35	8.71	V	55.06	68.20	13.14	PK
15810	42.78	11.51	V	54.29	73.98	19.69	PK
15810	30.14	11.51	V	41.65	53.98	12.33	AV
10540	45.05	8.71	H	53.76	68.20	14.44	PK
15810	41.50	11.51	H	53.01	73.98	20.97	PK
15810	29.80	11.51	H	41.31	53.98	12.67	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	44.41	8.62	V	53.03	73.98	20.95	PK
10620	31.62	8.62	V	40.24	53.98	13.74	AV
15930	44.78	10.63	V	55.41	73.98	18.57	PK
15930	31.50	10.63	V	42.13	53.98	11.85	AV
10620	43.33	8.62	H	51.95	73.98	22.03	PK
10620	30.39	8.62	H	39.01	53.98	14.97	AV
15930	43.68	10.63	H	54.31	73.98	19.67	PK
15930	31.03	10.63	H	41.66	53.98	12.32	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	43.29	9.89	V	53.18	73.98	20.80	PK
11020	30.91	9.89	V	40.80	53.98	13.18	AV
16530	44.73	11.59	V	56.32	68.20	11.88	PK
11020	42.12	9.89	H	52.01	73.98	21.97	PK
11020	30.62	9.89	H	40.51	53.98	13.47	AV
16530	44.51	11.59	H	56.10	68.20	12.10	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5550 MHz
 Channel No. 110 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	42.11	9.73	V	51.84	73.98	22.14	PK
11000	30.50	9.73	V	40.23	53.98	13.75	AV
16500	44.87	11.12	V	55.99	68.20	12.21	PK
11000	42.58	9.73	H	52.31	73.98	21.67	PK
11000	30.13	9.73	H	39.86	53.98	14.12	AV
16500	43.70	11.12	H	54.82	68.20	13.38	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	43.63	9.18	V	52.81	73.98	21.17	PK
11420	30.27	9.18	V	39.45	53.98	14.53	AV
17130	45.26	13.20	V	58.46	68.20	9.74	PK
11420	42.67	9.18	H	51.85	73.98	22.13	PK
11420	30.11	9.18	H	39.29	53.98	14.69	AV
17130	44.10	13.20	H	57.30	68.20	10.90	PK

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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	43.52	9.19	V	52.71	73.98	21.27	PK
11510	31.59	9.19	V	40.78	53.98	13.20	AV
17265	44.79	14.32	V	59.11	68.20	9.09	PK
11510	42.77	9.19	H	51.96	73.98	22.02	PK
11510	31.02	9.19	H	40.21	53.98	13.77	AV
17265	44.25	14.32	H	58.57	68.20	9.63	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	43.93	9.46	V	53.39	73.98	20.59	PK
11590	32.21	9.46	V	41.67	53.98	12.31	AV
17385	44.87	15.37	V	60.24	68.20	7.96	PK
11590	42.81	9.46	H	52.27	73.98	21.71	PK
11590	31.81	9.46	H	41.27	53.98	12.71	AV
17385	43.61	15.37	H	58.98	68.20	9.22	PK

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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	44.60	7.88	V	52.48	68.20	15.72	PK
15630	44.10	12.05	V	56.15	73.98	17.83	PK
15630	33.03	12.05	V	45.08	53.98	8.90	AV
10420	43.17	7.88	H	51.05	68.20	17.15	PK
15630	43.74	12.05	H	55.79	73.98	18.19	PK
15630	32.75	12.05	H	44.80	53.98	9.18	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	44.86	8.83	V	53.69	68.20	14.51	PK
15870	43.82	11.15	V	54.97	73.98	19.01	PK
15870	32.36	11.15	V	43.51	53.98	10.47	AV
10580	43.51	8.83	H	52.34	68.20	15.86	PK
15870	42.97	11.15	H	54.12	73.98	19.86	PK
15870	32.02	11.15	H	43.17	53.98	10.81	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	43.25	9.83	V	53.08	73.98	20.90	PK
11060	31.56	9.83	V	41.39	53.98	12.59	AV
16590	45.11	11.80	V	56.91	68.20	11.29	PK
11060	42.08	9.83	H	51.91	73.98	22.07	PK
11060	31.03	9.83	H	40.86	53.98	13.12	AV
16590	44.81	11.80	H	56.61	68.20	11.59	PK

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

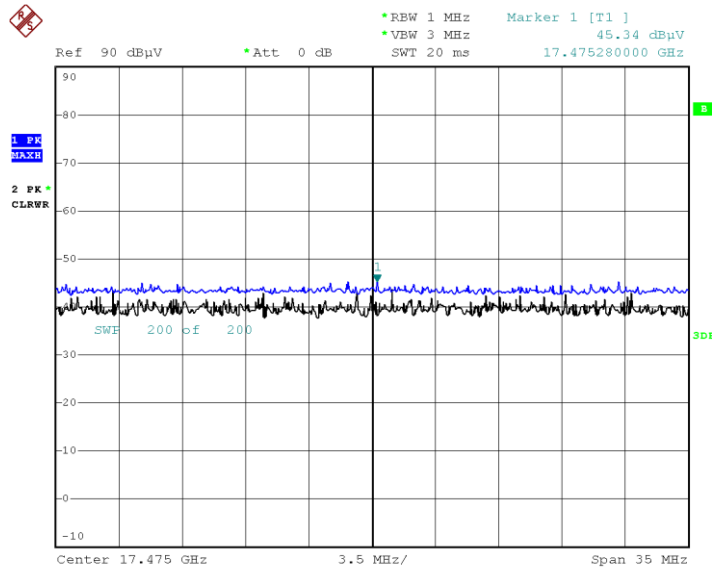
Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	43.17	9.91	V	53.08	73.98	20.90	PK
11380	31.40	9.91	V	41.31	53.98	12.67	AV
17070	43.83	12.72	V	56.55	68.20	11.65	PK
11380	42.46	9.91	H	52.37	73.98	21.61	PK
11380	31.07	9.91	H	40.98	53.98	13.00	AV
17070	43.03	12.72	H	55.75	68.20	12.45	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	42.99	8.90	V	51.89	73.98	22.09	PK
11550	32.66	8.90	V	41.56	53.98	12.42	AV
17325	44.38	15.33	V	59.71	68.20	8.49	PK
11550	42.31	8.90	H	51.21	73.98	22.77	PK
11550	31.81	8.90	H	40.71	53.98	13.27	AV
17325	43.29	15.33	H	58.62	68.20	9.58	PK

▣ Test Plots

Peak Reading (802.11a, Ch.165 3rd Harmonic, X-V)



Date: 13.NOV.2019 09:14:13

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	55.87	5.75	H	61.62	73.98	12.36	PK
5150	44.49	5.75	H	50.24	53.98	3.74	AV
5150	54.90	5.75	V	60.65	73.98	13.33	PK
5150	43.86	5.75	V	49.61	53.98	4.37	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	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	52.61	6.66	H	59.27	73.98	14.71	PK
5350	39.83	6.66	H	46.49	53.98	7.49	AV
5350	51.68	6.66	V	58.34	73.98	15.64	PK
5350	39.67	6.66	V	46.33	53.98	7.65	AV

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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	57.48	6.66	H	64.14	73.98	9.84	PK
5350	45.00	6.66	H	51.66	53.98	2.32	AV
5350	56.81	6.66	V	63.47	73.98	10.51	PK
5350	44.23	6.66	V	50.89	53.98	3.09	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	56.74	6.08	H	62.82	73.98	11.16	PK
5460	43.92	6.08	H	50	53.98	3.98	AV
5470	58.73	6.19	H	64.92	68.20	3.28	PK
5460	55.88	6.08	V	61.96	73.98	12.02	PK
5460	43.23	6.08	V	49.31	53.98	4.67	AV
5470	56.76	6.19	V	62.95	68.20	5.25	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
5725	51.66	7.07	H	58.73	68.20	9.47	PK
5725	50.98	7.07	V	58.05	68.20	10.15	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	56.09	5.75	H	61.84	73.98	12.14	PK
5150	44.19	5.75	H	49.94	53.98	4.04	AV
5150	54.73	5.75	V	60.48	73.98	13.50	PK
5150	42.88	5.75	V	48.63	53.98	5.35	AV

Band : UNII 2A
 Operation Mode: 802.11 n_HT20
 Transfer MCS Index: 0
 Operating Frequency 5300 MHz
 Channel No. 60 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	51.87	6.66	H	58.53	73.98	15.45	PK
5350	39.73	6.66	H	46.39	53.98	7.59	AV
5350	51.53	6.66	V	58.19	73.98	15.79	PK
5350	39.14	6.66	V	45.8	53.98	8.18	AV

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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.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5350	56.53	6.66	H	63.19	73.98	10.79	PK
5350	44.14	6.66	H	50.8	53.98	3.18	AV
5350	55.66	6.66	V	62.32	73.98	11.66	PK
5350	44.02	6.66	V	50.68	53.98	3.30	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.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5460	56.83	6.08	H	62.91	73.98	11.07	PK
5460	44.54	6.08	H	50.62	53.98	3.36	AV
5470	59.59	6.19	H	65.78	68.20	2.42	PK
5460	55.92	6.08	V	62	73.98	11.98	PK
5460	43.04	6.08	V	49.12	53.98	4.86	AV
5470	57.69	6.19	V	63.88	68.20	4.32	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	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	51.77	7.07	H	58.84	68.20	9.36	PK
5850	51.24	7.07	V	58.31	68.20	9.89	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	56.25	5.75	H	62.00	73.98	11.98	PK
5150	44.07	5.75	H	49.82	53.98	4.16	AV
5150	55.81	5.75	V	61.56	73.98	12.42	PK
5150	43.90	5.75	V	49.65	53.98	4.33	AV

Band : UNII 2A
 Operation Mode: 802.11 ac_VHT20
 Transfer MCS Index: 0
 Operating Frequency 5300 MHz
 Channel No. 60 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	52.22	6.66	H	58.88	73.98	15.10	PK
5350	39.18	6.66	H	45.84	53.98	8.14	AV
5350	51.16	6.66	V	57.82	73.98	16.16	PK
5350	38.98	6.66	V	45.64	53.98	8.34	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	56.80	6.66	H	63.46	73.98	10.52	PK
5350	44.36	6.66	H	51.02	53.98	2.96	AV
5350	56.65	6.66	V	63.31	73.98	10.67	PK
5350	43.94	6.66	V	50.6	53.98	3.38	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.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5460	56.97	6.08	H	63.05	73.98	10.93	PK
5460	44.29	6.08	H	50.37	53.98	3.61	AV
5470	59.64	6.19	H	65.83	68.20	2.37	PK
5460	55.25	6.08	V	61.33	73.98	12.65	PK
5460	43.22	6.08	V	49.3	53.98	4.68	AV
5470	58.67	6.19	V	64.86	68.20	3.34	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	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	51.78	7.07	H	58.85	68.20	9.35	PK
5850	50.34	7.07	V	57.41	68.20	10.79	PK

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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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	57.03	5.75	H	62.78	73.98	11.20	PK
5150	44.61	5.75	H	50.36	53.98	3.62	AV
5150	56.86	5.75	V	62.61	73.98	11.37	PK
5150	43.71	5.75	V	49.46	53.98	4.52	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	56.49	6.66	H	63.15	73.98	10.83	PK
5350	44.38	6.66	H	51.04	53.98	2.94	AV
5350	55.10	6.66	V	61.76	73.98	12.22	PK
5350	43.87	6.66	V	50.53	53.98	3.45	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	53.96	6.08	H	60.04	73.98	13.94	PK
5460	42.24	6.08	H	48.32	53.98	5.66	AV
5470	55.31	6.19	H	61.5	68.20	6.70	PK
5460	55.29	6.08	V	61.37	73.98	12.61	PK
5460	43.09	6.08	V	49.17	53.98	4.81	AV
5470	55.51	6.19	V	61.7	68.20	6.50	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	51.61	7.07	H	58.68	68.20	9.52	PK
5850	51.26	7.07	V	58.33	68.20	9.87	PK

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	55.92	5.75	H	61.67	73.98	12.31	PK
5150	45.01	5.75	H	50.76	53.98	3.22	AV
5150	55.10	5.75	V	60.85	73.98	13.13	PK
5150	44.57	5.75	V	50.32	53.98	3.66	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	55.77	6.66	H	62.43	73.98	11.55	PK
5350	44.04	6.66	H	50.7	53.98	3.28	AV
5350	54.62	6.66	V	61.28	73.98	12.70	PK
5350	43.69	6.66	V	50.35	53.98	3.63	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	56.00	6.08	H	62.08	73.98	11.90	PK
5460	43.65	6.08	H	49.73	53.98	4.25	AV
5470	56.50	6.19	H	62.69	68.20	5.51	PK
5460	55.13	6.08	V	61.21	73.98	12.77	PK
5460	42.99	6.08	V	49.07	53.98	4.91	AV
5470	55.69	6.19	V	61.88	68.20	6.32	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	51.79	7.07	H	58.86	68.20	9.34	PK
5850	50.42	7.07	V	57.49	68.20	10.71	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.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5150	55.41	5.75	H	61.16	73.98	12.82	PK
5150	44.69	5.75	H	50.44	53.98	3.54	AV
5150	54.99	5.75	V	60.74	73.98	13.24	PK
5150	44.26	5.75	V	50.01	53.98	3.97	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.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5350	55.11	6.66	H	61.77	73.98	12.21	PK
5350	44.16	6.66	H	50.82	53.98	3.16	AV
5350	55.81	6.66	V	62.47	73.98	11.51	PK
5350	44.59	6.66	V	51.25	53.98	2.73	AV

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

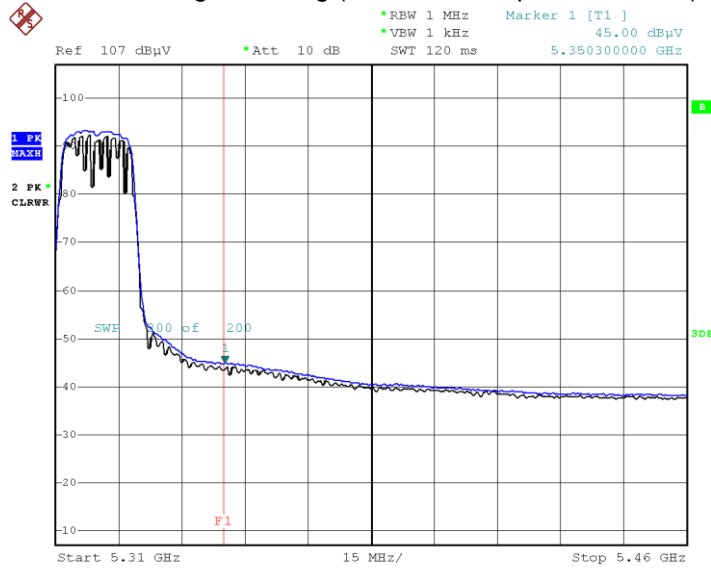
Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	57.76	6.08	H	63.84	73.98	10.14	PK
5460	44.82	6.08	H	50.9	53.98	3.08	AV
5470	57.49	6.19	H	63.68	68.20	4.52	PK
5460	54.26	6.08	V	60.34	73.98	13.64	PK
5460	41.99	6.08	V	48.07	53.98	5.91	AV
5470	55.41	6.19	V	61.6	68.20	6.60	PK

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	51.47	7.07	H	58.54	68.20	9.66	PK
5850	50.89	7.07	V	57.96	68.20	10.24	PK

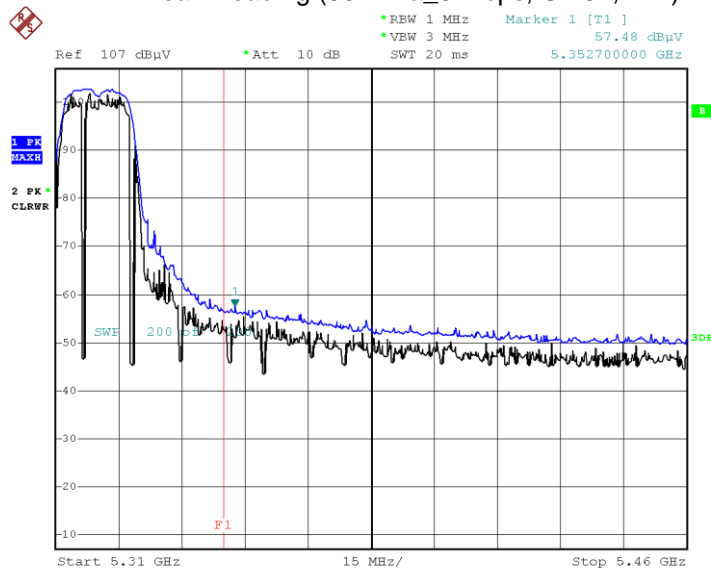
☑ Test Plots(UNII 1, 2A, 2C)

Average Reading (802.11a_6 Mbps, Ch.64, Z-H)



Date: 13.NOV.2019 13:36:06

Peak Reading (802.11a_6 Mbps, Ch.64, Z-H)



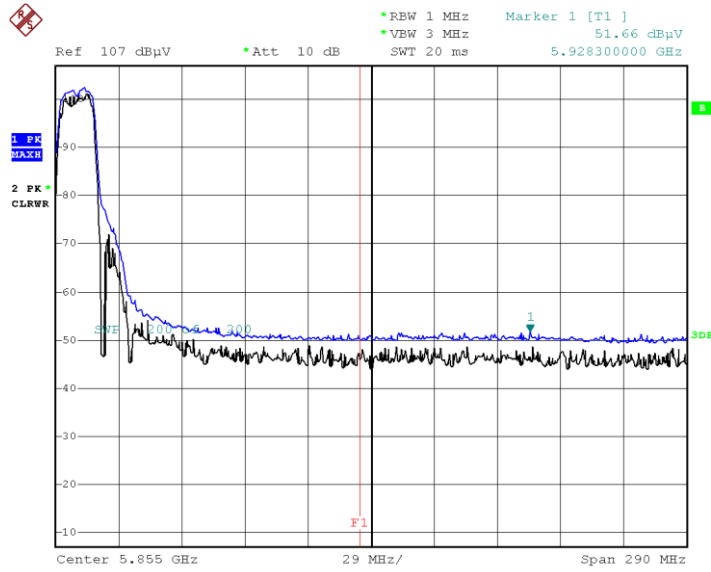
Date: 13.NOV.2019 13:37:28

Note:

Only the worst case plots for Radiated Restricted Band Edge.

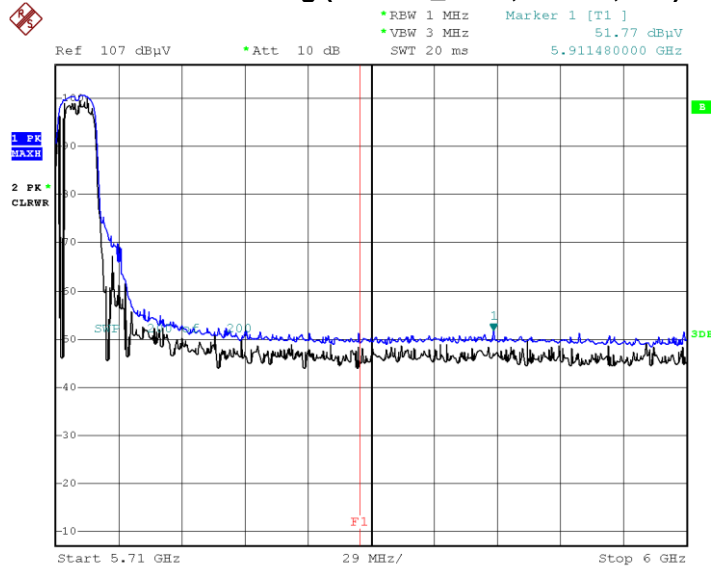
☑ Test Plots(Staraddle Channel)

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



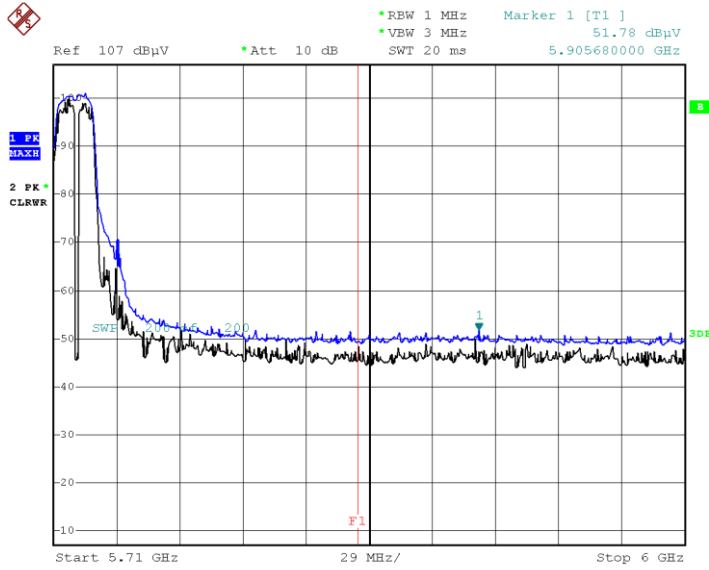
Date: 4.NOV.2019 11:20:18

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



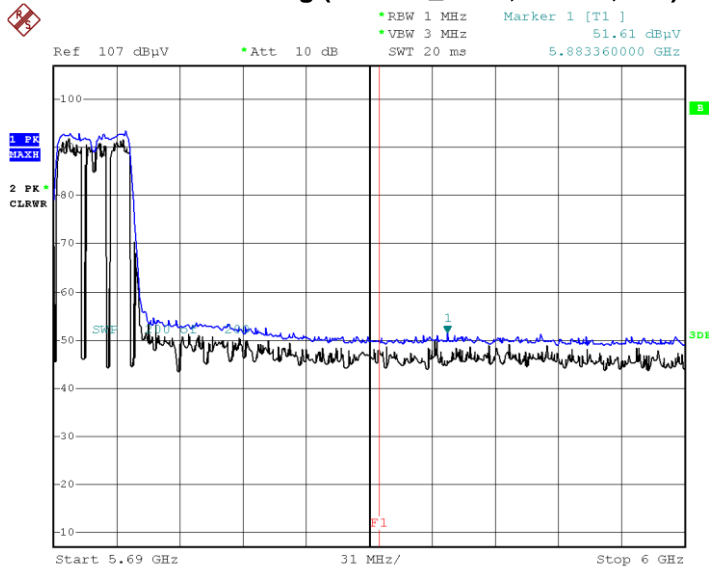
Date: 4.NOV.2019 11:21:49

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



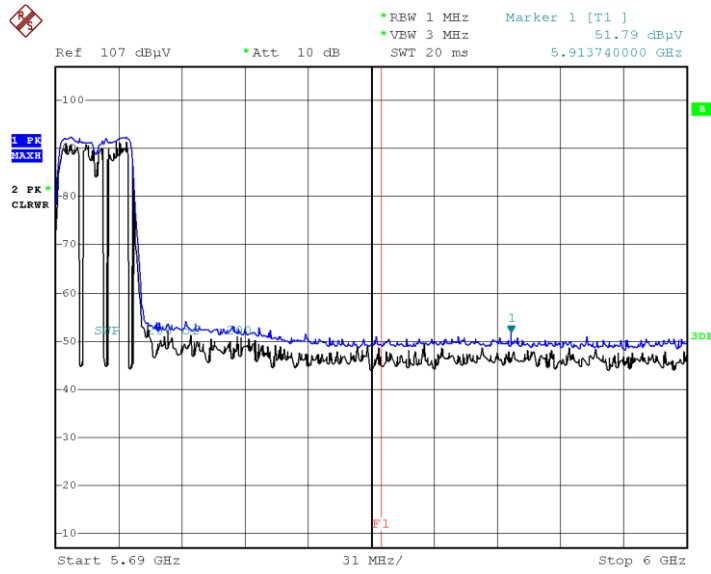
Date: 4.NOV.2019 11:23:35

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



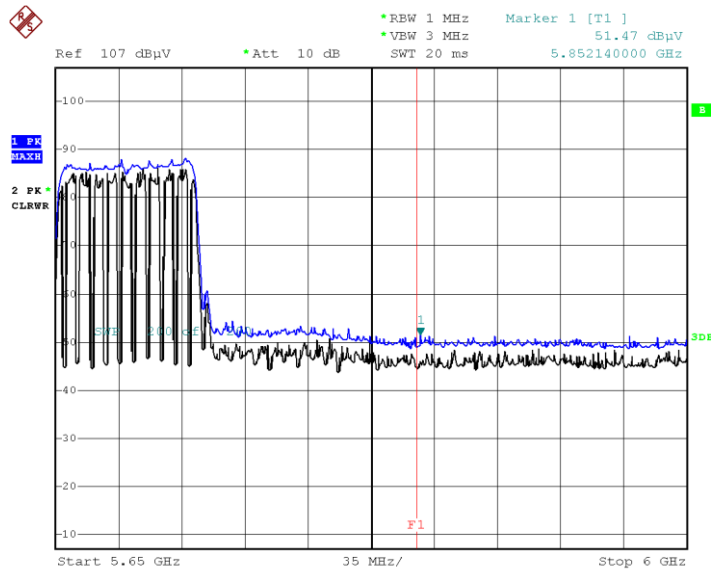
Date: 4.NOV.2019 11:26:09

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



Date: 4.NOV.2019 11:27:45

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



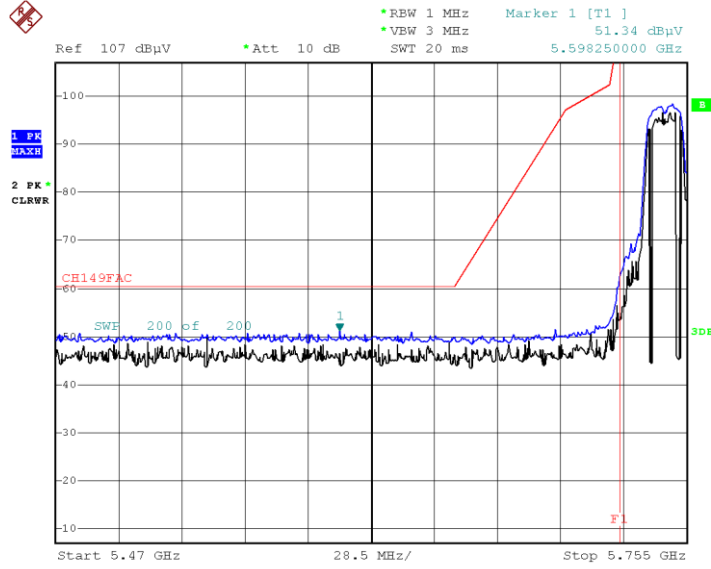
Date: 4.NOV.2019 11:30:11

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)

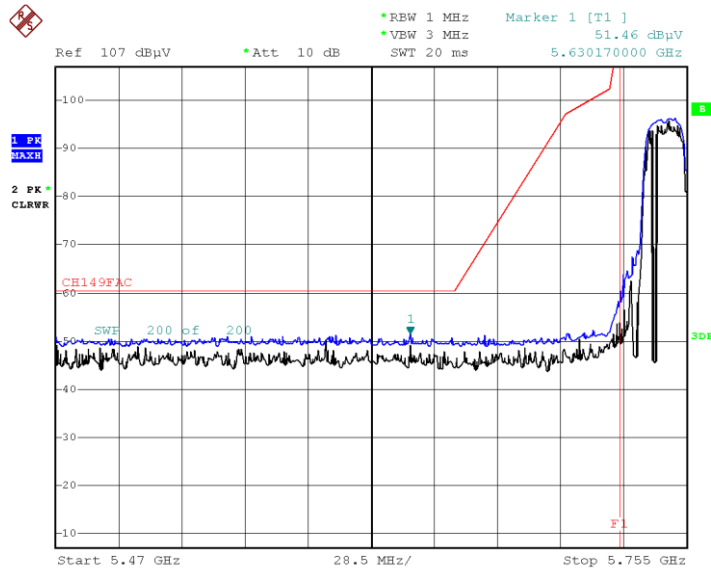
▣ Test Plots(UNII 3)

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



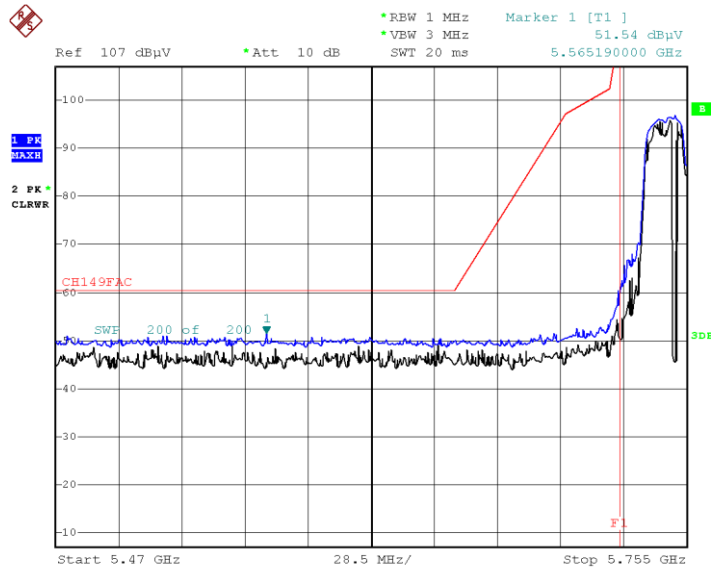
Date: 4.NOV.2019 11:42:10

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



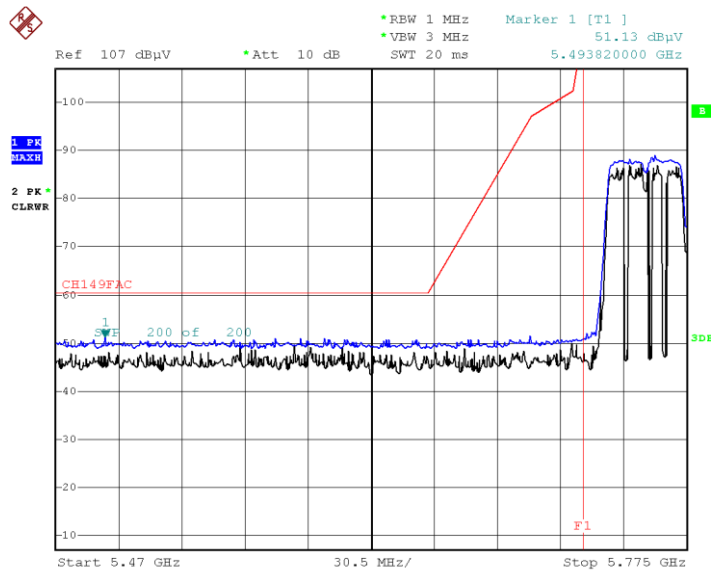
Date: 4.NOV.2019 11:44:19

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



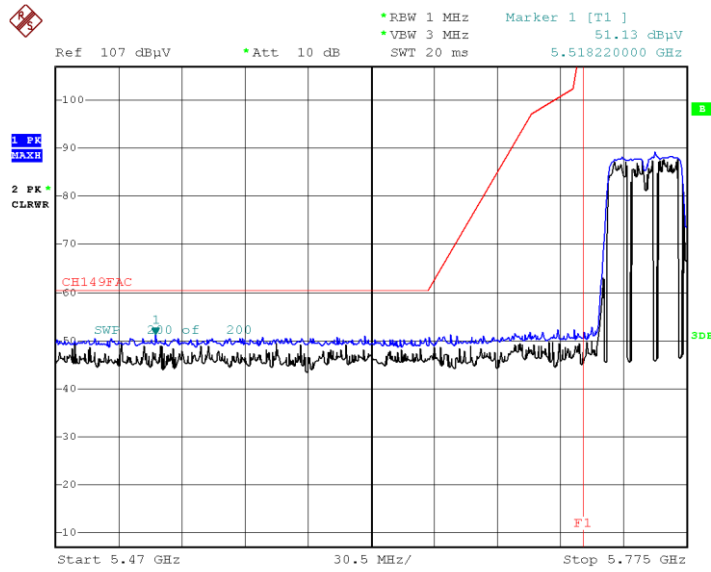
Date: 4.NOV.2019 11:45:30

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



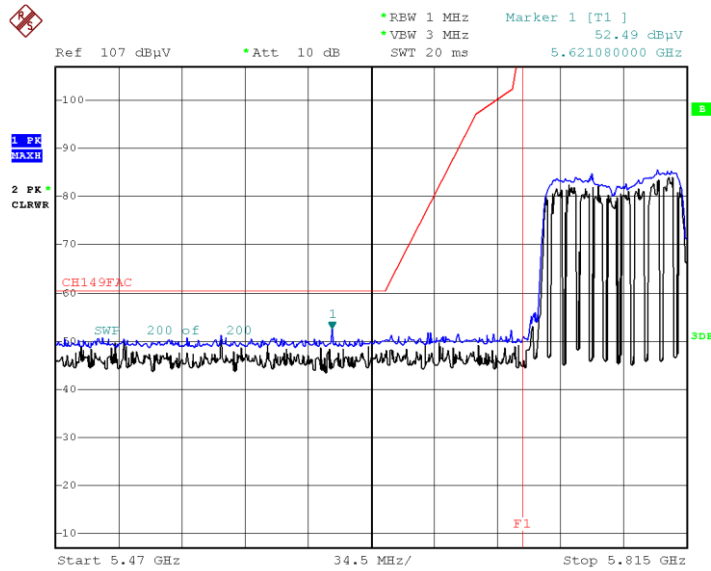
Date: 4.NOV.2019 11:47:24

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



Date: 4.NOV.2019 11:48:58

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



Date: 4.NOV.2019 11:51:06