

Test Plots (26dB Bandwidth)

802.11n(HT40) UNII Band



802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band



10.7.2 6dB Bandwidth

[ANT1]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5727.56	2.56	> 0.5
802.11n(HT20)				5727.52	2.52	> 0.5
802.11ac(VHT20)				5727.55	2.55	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.53	2.53	> 0.5
802.11ac(VHT40)				5727.60	2.60	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5727.58	2.58	> 0.5

Note:

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

[ANT2]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5727.53	2.53	> 0.5
802.11n(HT20)				5727.57	2.57	> 0.5
802.11ac(VHT20)				5727.57	2.57	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.56	2.56	> 0.5
802.11ac(VHT40)				5727.55	2.55	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5727.59	2.59	> 0.5

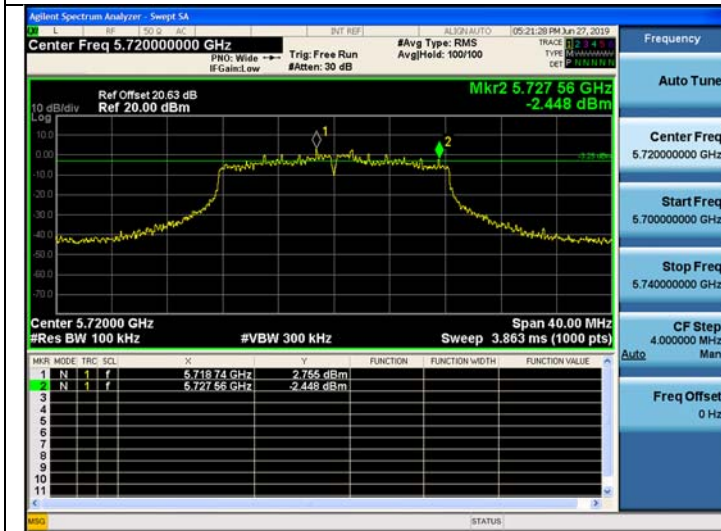
Note:

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

[ANT1]

■ Test Plots(UNII 3 Band 6dB Bandwidth)

802.11a CH.144



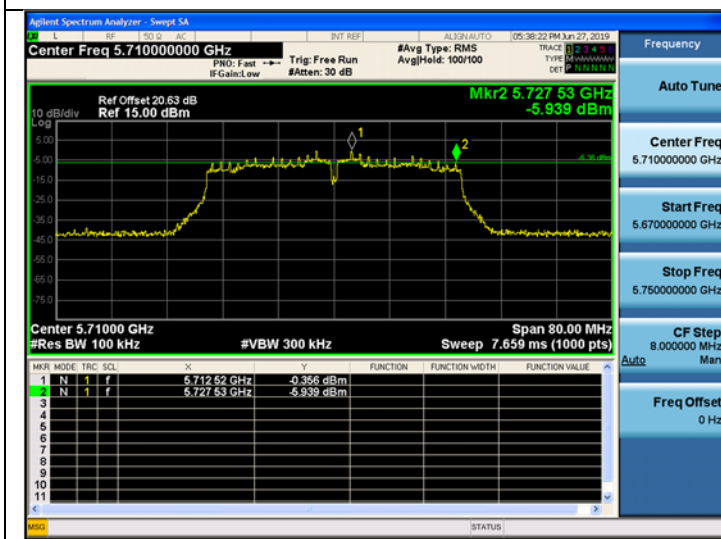
802.11n_HT20 CH.144



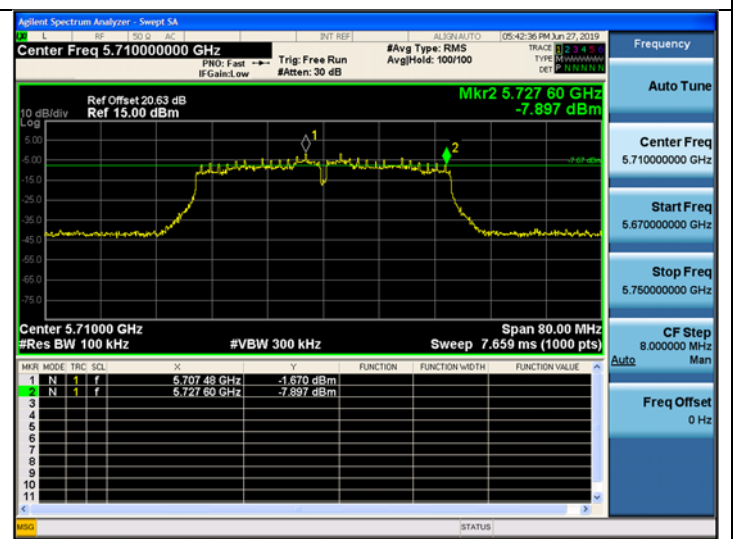
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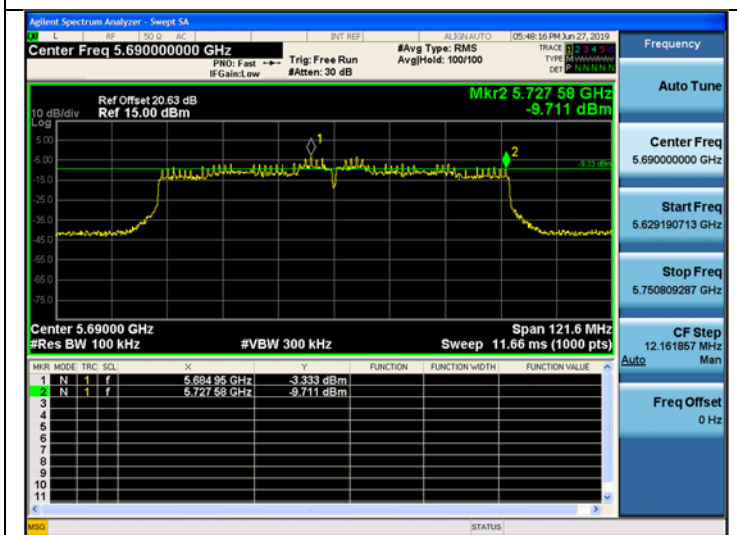
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



[ANT2]

Test Plots(UNII 3 Band 6dB Bandwidth)

802.11a CH.144



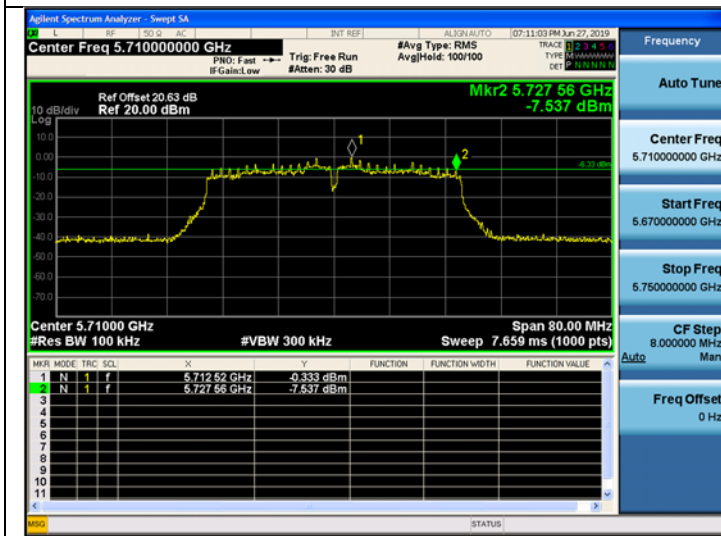
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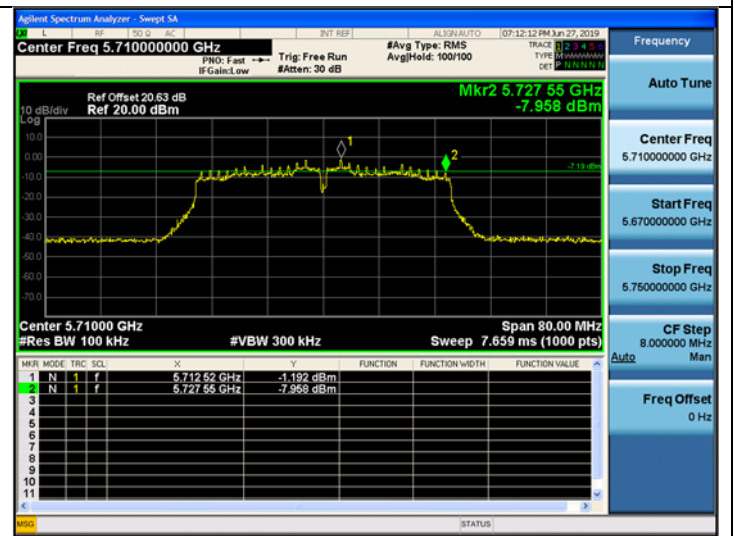
802.11ac_VHT20 CH.144



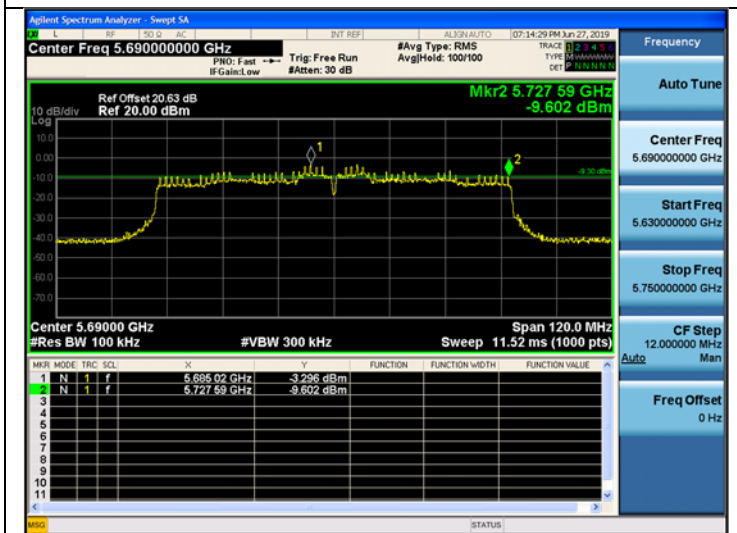
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

[ANT1]

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	11.19	0.319	11.51	22.66
802.11n(HT20)			10.93	0.418	11.35	22.95
802.11ac(VHT20)			9.97	0.419	10.39	22.76
802.11a	5720 (UNII 3 Band)	144	3.01	0.319	3.33	30.00
802.11n(HT20)			3.24	0.418	3.66	30.00
802.11ac(VHT20)			2.28	0.419	2.70	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	10.47	0.589	11.06	23.98
802.11ac(VHT40)			9.51	0.583	10.09	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	-1.97	0.589	-1.38	30.00
802.11ac(VHT40)			-2.94	0.583	-2.36	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	9.57	1.000	10.57	23.98
	5690 (UNII 3 Band)	138	-6.03	1.000	-5.03	30.00

[ANT2]

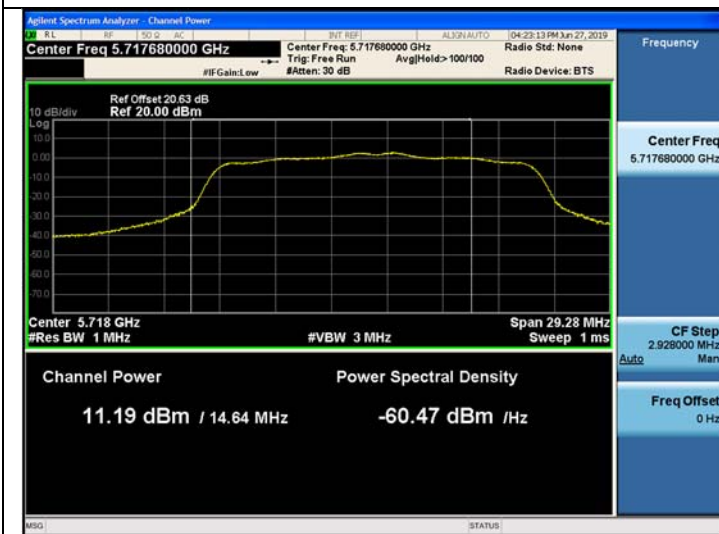
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	11.51	0.319	11.83	22.85
802.11n(HT20)			11.26	0.418	11.68	22.68
802.11ac(VHT20)			10.20	0.419	10.62	22.76
802.11a	5720 (UNII 3 Band)	144	3.26	0.319	3.58	30.00
802.11n(HT20)			3.52	0.418	3.94	30.00
802.11ac(VHT20)			2.48	0.419	2.90	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	10.58	0.589	11.17	23.98
802.11ac(VHT40)			9.56	0.583	10.14	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	-1.92	0.589	-1.33	30.00
802.11ac(VHT40)			-2.93	0.583	-2.35	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	9.69	1.000	10.69	23.98
	5690 (UNII 3 Band)	138	-5.89	1.000	-4.89	30.00

Test Plots_[ANT1]

802.11a UNII 2C Band



802.11a UNII 3 Band



802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



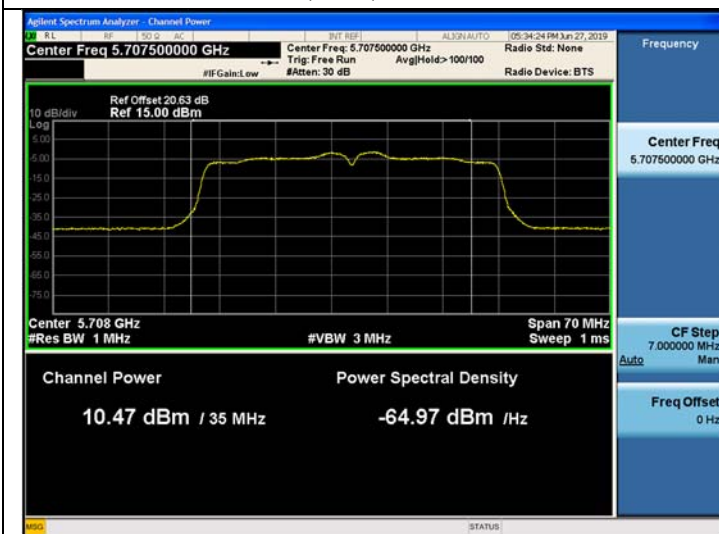
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



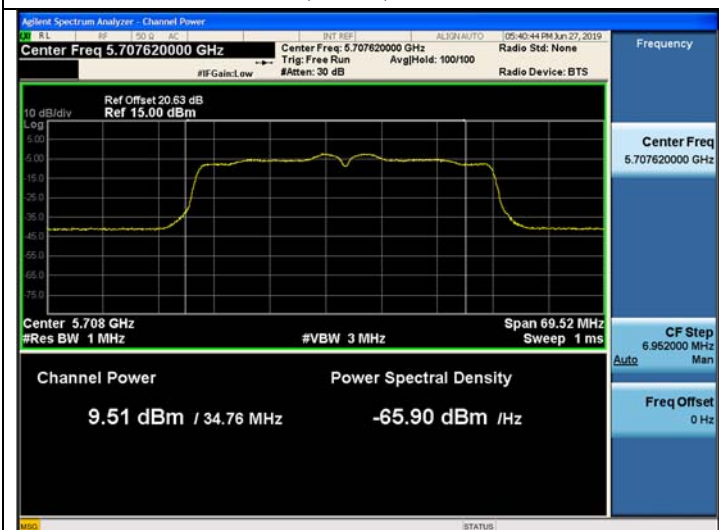
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



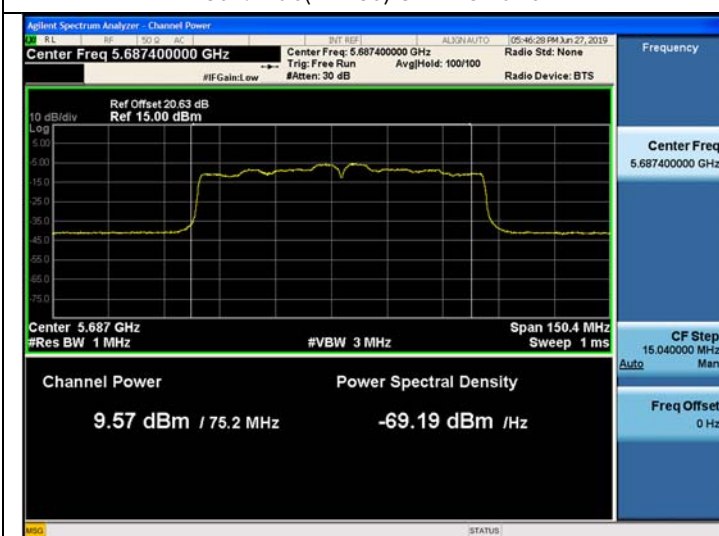
802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band

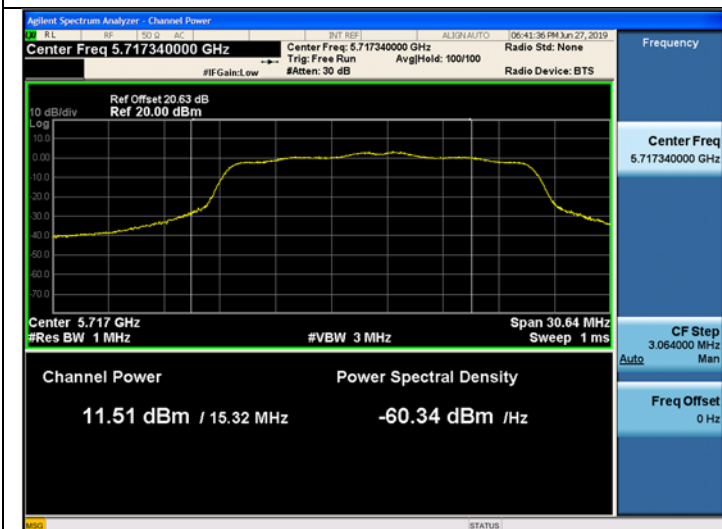


802.11ac(VHT80) UNII 3 Band

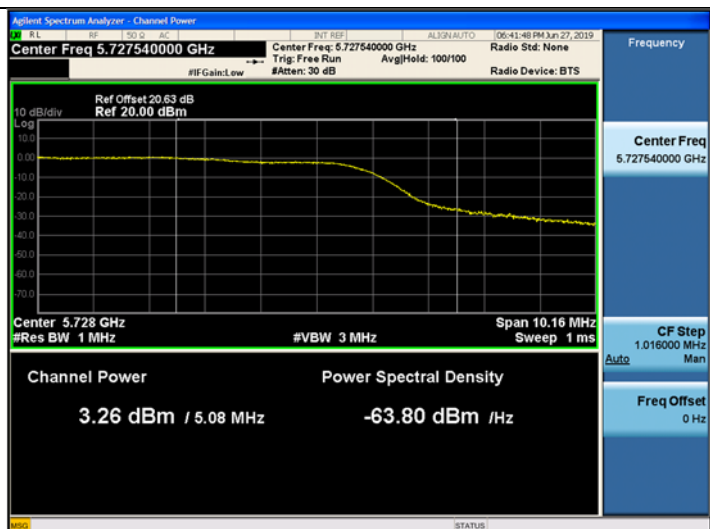


Test Plots [ANT2]

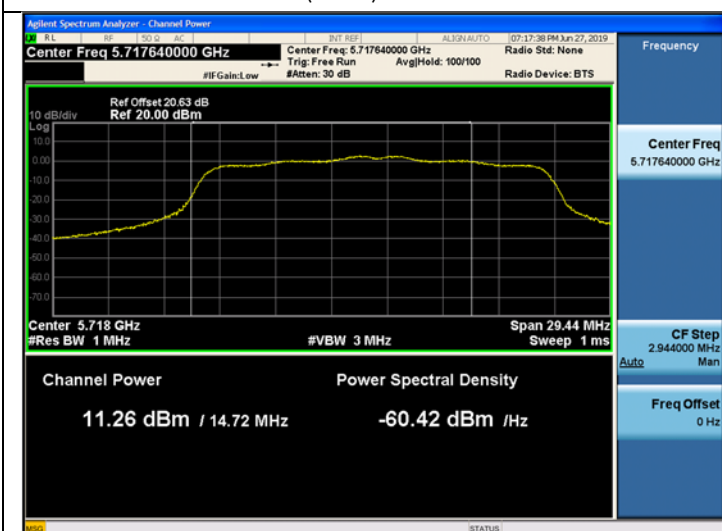
802.11a UNII 2C Band



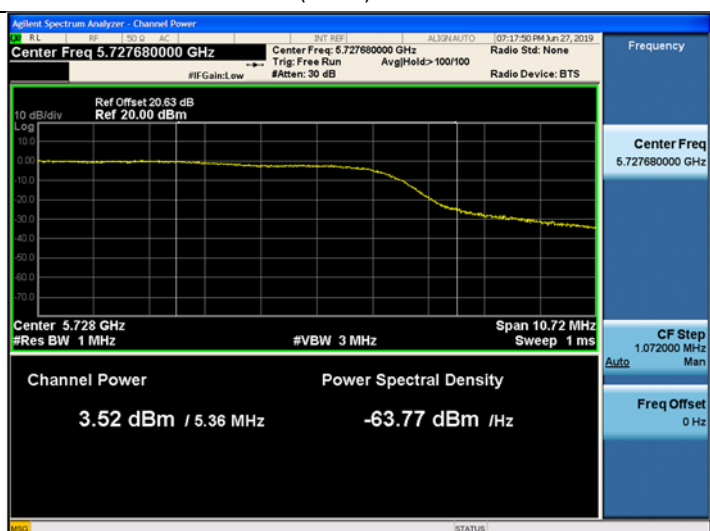
802.11a UNII 3 Band



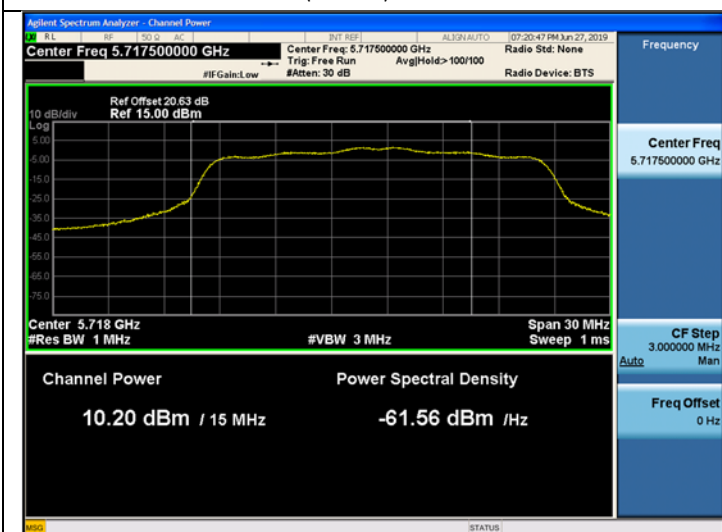
802.11n(HT20) UNII 2C Band



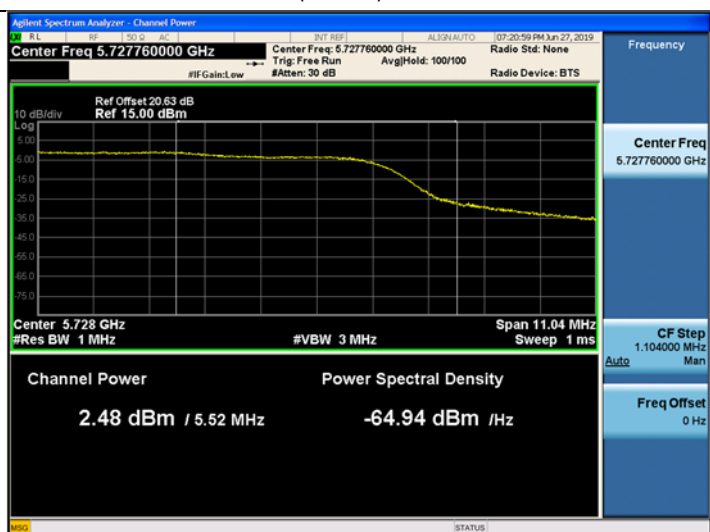
802.11n(HT20) UNII 3 Band



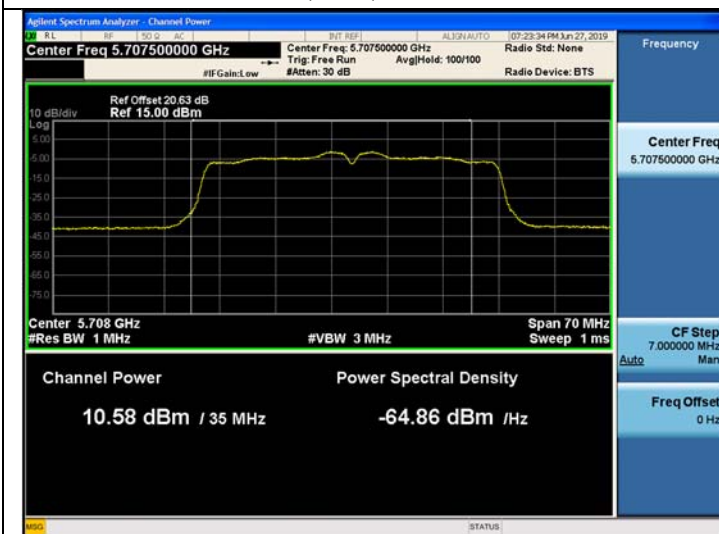
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



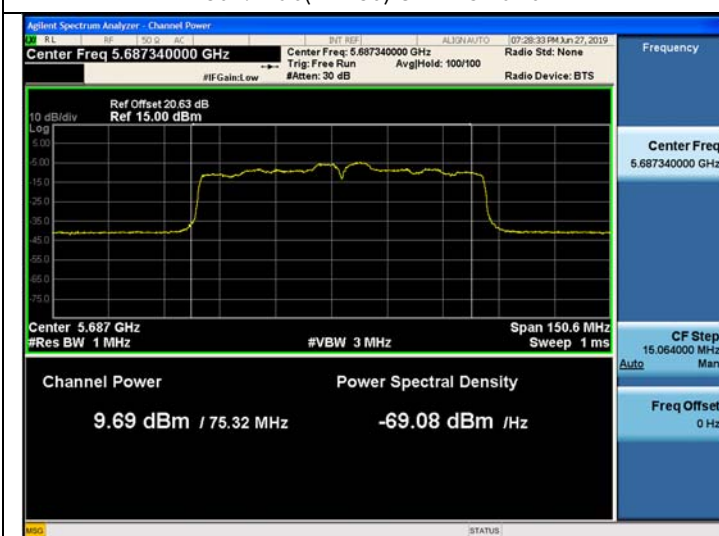
802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7.4 Power Spectral Density

[ANT1]

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	2.654	0.319	2.973	11.00
802.11n(HT20)			2.256	0.418	2.674	11.00
802.11ac(VHT20)			1.448	0.419	1.867	11.00
802.11a	5720 (UNII 3 Band)	144	-2.715	0.319	-2.396	30.00
802.11n(HT20)			-3.234	0.418	-2.816	30.00
802.11ac(VHT20)			-4.060	0.419	-3.641	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	-1.194	0.589	-0.605	11.00
802.11ac(VHT40)			-2.208	0.583	-1.625	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-9.152	0.589	-8.563	30.00
802.11ac(VHT40)			-9.844	0.583	-9.261	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	-4.939	1.000	-3.939	11.00
	5690 (UNII 3 Band)	138	-12.201	1.000	-11.201	30.00

[ANT2]

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	3.039	0.319	3.358	11.00
802.11n(HT20)			2.801	0.418	3.219	11.00
802.11ac(VHT20)			1.665	0.419	2.084	11.00
802.11a	5720 (UNII 3 Band)	144	-2.443	0.319	-2.124	30.00
802.11n(HT20)			-2.295	0.418	-1.877	30.00
802.11ac(VHT20)			-3.699	0.419	-3.280	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	-1.034	0.589	-0.445	11.00
802.11ac(VHT40)			-2.123	0.583	-1.540	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-8.495	0.589	-7.906	30.00
802.11ac(VHT40)			-9.903	0.583	-9.320	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	-4.742	1.000	-3.742	11.00
	5690 (UNII 3 Band)	138	-12.493	1.000	-11.493	30.00

Test Plots_[ANT1]

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



Test Plots_[ANT2]

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 = $40 \cdot \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor
4. The test results for below 30 MHz is correlated to an open site.
The result on OATS is about 2 dB higher than semi-anechoic chamber(10 m chamber)

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	53.11	-3.05	V	50.06	68.20	18.14	PK
15540	51.49	-0.54	V	50.95	73.98	23.03	PK
15540	38.44	-0.54	V	37.90	53.98	16.08	AV
10360	54.18	-3.05	H	51.13	68.20	17.07	PK
15540	52.55	-0.54	H	52.01	73.98	21.97	PK
15540	39.50	-0.54	H	38.96	53.98	15.02	AV

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps & 1 Mbps
Operating Frequency	5180 MHz & 2412 MHz
Channel No.	36 Ch & 1 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	52.32	-3.05	V	49.27	68.20	18.93	PK
15540	51.74	-0.54	V	51.20	73.98	22.78	PK
15540	39.11	-0.54	V	38.57	53.98	15.41	AV
10360	53.99	-3.05	H	50.94	68.20	17.26	PK
15540	52.90	-0.54	H	52.36	73.98	21.62	PK
15540	39.80	-0.54	H	39.26	53.98	14.72	AV

Note:

1. DBS Mode 2.4 GHz & 5GHz

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	53.95	-2.37	V	51.58	68.20	16.62	PK
15600	51.97	-1.59	V	50.38	73.98	23.60	PK
15600	39.15	-1.59	V	37.56	53.98	16.42	AV
10400	54.62	-2.37	H	52.25	68.20	15.95	PK
15600	52.99	-1.59	H	51.40	73.98	22.58	PK
15600	39.92	-1.59	H	38.33	53.98	15.65	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	52.77	-3.66	V	49.11	68.20	19.09	PK
15720	51.19	-1.47	V	49.72	73.98	24.26	PK
15720	39.01	-1.47	V	37.54	53.98	16.44	AV
10480	53.53	-3.66	H	49.87	68.20	18.33	PK
15720	52.21	-1.47	H	50.74	73.98	23.24	PK
15720	39.43	-1.47	H	37.96	53.98	16.02	AV

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	53.09	-3.05	V	50.04	68.20	18.16	PK
15540	52.10	-0.54	V	51.56	73.98	22.42	PK
15540	38.47	-0.54	V	37.93	53.98	16.05	AV
10360	53.39	-3.05	H	50.34	68.20	17.86	PK
15540	52.22	-0.54	H	51.68	73.98	22.30	PK
15540	39.51	-0.54	H	38.97	53.98	15.01	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	53.88	-2.37	V	51.51	68.20	16.69	PK
15600	52.33	-1.59	V	50.74	73.98	23.24	PK
15600	38.77	-1.59	V	37.18	53.98	16.80	AV
10400	54.31	-2.37	H	51.94	68.20	16.26	PK
15600	53.27	-1.59	H	51.68	73.98	22.30	PK
15600	39.95	-1.59	H	38.36	53.98	15.62	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	53.27	-3.66	V	49.61	68.20	18.59	PK
15720	51.89	-1.47	V	50.42	73.98	23.56	PK
15720	39.02	-1.47	V	37.55	53.98	16.43	AV
10480	54.95	-3.66	H	51.29	68.20	16.91	PK
15720	52.53	-1.47	H	51.06	73.98	22.92	PK
15720	39.37	-1.47	H	37.90	53.98	16.08	AV

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	53.81	-3.05	V	50.76	68.20	17.44	PK
15540	52.35	-0.54	V	51.81	73.98	22.17	PK
15540	39.02	-0.54	V	38.48	53.98	15.50	AV
10360	54.66	-3.05	H	51.61	68.20	16.59	PK
15540	52.97	-0.54	H	52.43	73.98	21.55	PK
15540	39.46	-0.54	H	38.92	53.98	15.06	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	53.18	-2.37	V	50.81	68.20	17.39	PK
15600	52.33	-1.59	V	50.74	73.98	23.24	PK
15600	39.93	-1.59	V	38.34	53.98	15.64	AV
10400	54.04	-2.37	H	51.67	68.20	16.53	PK
15600	53.07	-1.59	H	51.48	73.98	22.50	PK
15600	40.11	-1.59	H	38.52	53.98	15.46	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	53.95	-3.66	V	50.29	68.20	17.91	PK
15720	51.96	-1.47	V	50.49	73.98	23.49	PK
15720	38.37	-1.47	V	36.90	53.98	17.08	AV
10480	54.56	-3.66	H	50.90	68.20	17.30	PK
15720	53.01	-1.47	H	51.54	73.98	22.44	PK
15720	39.42	-1.47	H	37.95	53.98	16.03	AV

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	53.44	-2.77	V	50.67	68.20	17.53	PK
15570	52.08	-1.81	V	50.27	73.98	23.71	PK
15570	40.27	-1.81	V	38.46	53.98	15.52	AV
10380	53.69	-2.77	H	50.92	68.20	17.28	PK
15570	53.36	-1.81	H	51.55	73.98	22.43	PK
15570	40.53	-1.81	H	38.72	53.98	15.26	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	53.09	-3.46	V	49.63	68.20	18.57	PK
15690	51.17	-1.19	V	49.98	73.98	24.00	PK
15690	40.02	-1.19	V	38.83	53.98	15.15	AV
10460	54.12	-3.46	H	50.66	68.20	17.54	PK
15690	52.96	-1.19	H	51.77	73.98	22.21	PK
15690	40.39	-1.19	H	39.20	53.98	14.78	AV

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	53.74	-2.77	V	50.97	68.20	17.23	PK
15570	52.63	-1.81	V	50.82	73.98	23.16	PK
15570	40.34	-1.81	V	38.53	53.98	15.45	AV
10380	54.05	-2.77	H	51.28	68.20	16.92	PK
15570	53.04	-1.81	H	51.23	73.98	22.75	PK
15570	40.51	-1.81	H	38.70	53.98	15.28	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	52.12	-3.46	V	48.66	68.20	19.54	PK
15690	52.68	-1.19	V	51.49	73.98	22.49	PK
15690	40.73	-1.19	V	39.54	53.98	14.44	AV
10460	53.96	-3.46	H	50.50	68.20	17.70	PK
15690	53.65	-1.19	H	52.46	73.98	21.52	PK
15690	40.98	-1.19	H	39.79	53.98	14.19	AV

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	53.71	-3.07	V	50.64	68.20	17.56	PK
15630	51.70	-2.10	V	49.60	73.98	24.38	PK
15630	41.26	-2.10	V	39.16	53.98	14.82	AV
10420	54.63	-3.07	H	51.56	68.20	16.64	PK
15630	52.45	-2.10	H	50.35	73.98	23.63	PK
15630	41.49	-2.10	H	39.39	53.98	14.59	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	54.01	-3.56	V	50.45	68.20	17.75	PK
15780	51.59	-1.55	V	50.04	73.98	23.94	PK
15780	39.09	-1.55	V	37.54	53.98	16.44	AV
10520	54.18	-3.56	H	50.62	68.20	17.58	PK
15780	52.15	-1.55	H	50.60	73.98	23.38	PK
15780	39.18	-1.55	H	37.63	53.98	16.35	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	54.60	-3.25	V	51.35	73.98	22.63	PK
10600	40.60	-3.25	V	37.35	53.98	16.63	AV
15900	51.10	-2.45	V	48.65	73.98	25.33	PK
15900	37.41	-2.45	V	34.96	53.98	19.02	AV
10600	55.50	-3.25	H	52.25	73.98	21.73	PK
10600	41.72	-3.25	H	38.47	53.98	15.51	AV
15900	52.57	-2.45	H	50.12	73.98	23.86	PK
15900	38.66	-2.45	H	36.21	53.98	17.77	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	53.17	-3.24	V	49.93	73.98	24.05	PK
10640	39.04	-3.24	V	35.80	53.98	18.18	AV
15960	51.98	-2.12	V	49.86	73.98	24.12	PK
15960	39.02	-2.12	V	36.90	53.98	17.08	AV
10640	53.98	-3.24	H	50.74	73.98	23.24	PK
10640	41.22	-3.24	H	37.98	53.98	16.00	AV
15960	53.43	-2.12	H	51.31	73.98	22.67	PK
15960	40.26	-2.12	H	38.14	53.98	15.84	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	53.21	-3.56	V	49.65	68.20	18.55	PK
15780	51.19	-1.55	V	49.64	73.98	24.34	PK
15780	38.98	-1.55	V	37.43	53.98	16.55	AV
10520	54.41	-3.56	H	50.85	68.20	17.35	PK
15780	52.51	-1.55	H	50.96	73.98	23.02	PK
15780	39.21	-1.55	H	37.66	53.98	16.32	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	53.82	-3.25	V	50.57	73.98	23.41	PK
10600	41.42	-3.25	V	38.17	53.98	15.81	AV
15900	50.88	-2.45	V	48.43	73.98	25.55	PK
15900	37.64	-2.45	V	35.19	53.98	18.79	AV
10600	55.08	-3.25	H	51.83	73.98	22.15	PK
10600	41.59	-3.25	H	38.34	53.98	15.64	AV
15900	52.18	-2.45	H	49.73	73.98	24.25	PK
15900	38.88	-2.45	H	36.43	53.98	17.55	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	53.38	-3.24	V	50.14	73.98	23.84	PK
10640	40.81	-3.24	V	37.57	53.98	16.41	AV
15960	52.62	-2.12	V	50.50	73.98	23.48	PK
15960	39.88	-2.12	V	37.76	53.98	16.22	AV
10640	54.37	-3.24	H	51.13	73.98	22.85	PK
10640	41.06	-3.24	H	37.82	53.98	16.16	AV
15960	52.99	-2.12	H	50.87	73.98	23.11	PK
15960	40.22	-2.12	H	38.10	53.98	15.88	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	53.39	-3.56	V	49.83	68.20	18.37	PK
15780	51.66	-1.55	V	50.11	73.98	23.87	PK
15780	39.07	-1.55	V	37.52	53.98	16.46	AV
10520	54.45	-3.56	H	50.89	68.20	17.31	PK
15780	52.11	-1.55	H	50.56	73.98	23.42	PK
15780	39.18	-1.55	H	37.63	53.98	16.35	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	53.97	-3.25	V	50.72	73.98	23.26	PK
10600	40.88	-3.25	V	37.63	53.98	16.35	AV
15900	51.80	-2.45	V	49.35	73.98	24.63	PK
15900	37.26	-2.45	V	34.81	53.98	19.17	AV
10600	54.73	-3.25	H	51.48	73.98	22.50	PK
10600	41.52	-3.25	H	38.27	53.98	15.71	AV
15900	52.61	-2.45	H	50.16	73.98	23.82	PK
15900	38.81	-2.45	H	36.36	53.98	17.62	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	52.98	-3.24	V	49.74	73.98	24.24	PK
10640	40.91	-3.24	V	37.67	53.98	16.31	AV
15960	52.11	-2.12	V	49.99	73.98	23.99	PK
15960	40.03	-2.12	V	37.91	53.98	16.07	AV
10640	54.15	-3.24	H	50.91	73.98	23.07	PK
10640	41.18	-3.24	H	37.94	53.98	16.04	AV
15960	53.17	-2.12	H	51.05	73.98	22.93	PK
15960	40.23	-2.12	H	38.11	53.98	15.87	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	52.24	-3.12	V	49.12	68.20	19.08	PK
15810	50.70	-2.01	V	48.69	73.98	25.29	PK
15810	40.76	-2.01	V	38.75	53.98	15.23	AV
10540	53.92	-3.12	H	50.80	68.20	17.40	PK
15810	51.99	-2.01	H	49.98	73.98	24.00	PK
15810	41.19	-2.01	H	39.18	53.98	14.80	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	53.08	-3.41	V	49.67	73.98	24.31	PK
10620	41.08	-3.41	V	37.67	53.98	16.31	AV
15930	52.96	-2.67	V	50.29	73.98	23.69	PK
15930	40.49	-2.67	V	37.82	53.98	16.16	AV
10620	54.27	-3.41	H	50.86	73.98	23.12	PK
10620	42.41	-3.41	H	39.00	53.98	14.98	AV
15930	53.59	-2.67	H	50.92	73.98	23.06	PK
15930	40.83	-2.67	H	38.16	53.98	15.82	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	53.75	-3.12	V	50.63	68.20	17.57	PK
15810	50.82	-2.01	V	48.81	73.98	25.17	PK
15810	39.73	-2.01	V	37.72	53.98	16.26	AV
10540	54.40	-3.12	H	51.28	68.20	16.92	PK
15810	51.93	-2.01	H	49.92	73.98	24.06	PK
15810	39.98	-2.01	H	37.97	53.98	16.01	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	53.03	-3.41	V	49.62	73.98	24.36	PK
10620	41.96	-3.41	V	38.55	53.98	15.43	AV
15930	52.82	-2.67	V	50.15	73.98	23.83	PK
15930	40.62	-2.67	V	37.95	53.98	16.03	AV
10620	54.41	-3.41	H	51.00	73.98	22.98	PK
10620	42.40	-3.41	H	38.99	53.98	14.99	AV
15930	53.16	-2.67	H	50.49	73.98	23.49	PK
15930	40.86	-2.67	H	38.19	53.98	15.79	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	54.78	-3.18	V	51.60	68.20	16.60	PK
15870	51.26	-2.72	V	48.54	73.98	25.44	PK
15870	41.18	-2.72	V	38.46	53.98	15.52	AV
10580	55.10	-3.18	H	51.92	68.20	16.28	PK
15870	52.33	-2.72	H	49.61	73.98	24.37	PK
15870	41.50	-2.72	H	38.78	53.98	15.20	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	52.90	-2.21	V	50.69	73.98	23.29	PK
11000	40.12	-2.21	V	37.91	53.98	16.07	AV
16500	51.48	-0.52	V	50.96	68.20	17.24	PK
11000	53.29	-2.21	H	51.08	73.98	22.90	PK
11000	40.58	-2.21	H	38.37	53.98	15.61	AV
16500	52.18	-0.52	H	51.66	68.20	16.54	PK

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5500 MHz & 2437MHz

Channel No. 100 Ch & 6 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	53.33	-2.21	V	51.12	73.98	22.86	PK
11000	40.31	-2.21	V	38.10	53.98	15.88	AV
16500	51.46	-0.52	V	50.94	68.20	17.26	PK
11000	53.69	-2.21	H	51.48	73.98	22.50	PK
11000	40.62	-2.21	H	38.41	53.98	15.57	AV
16500	52.53	-0.52	H	52.01	68.20	16.19	PK

Note:

1. DBS Mode 2.4 GHz & 5GHz

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	52.49	-2.34	V	50.15	73.98	23.83	PK
11200	39.83	-2.34	V	37.49	53.98	16.49	AV
16800	50.62	1.04	V	51.66	68.20	16.54	PK
11200	53.80	-2.34	H	51.46	73.98	22.52	PK
11200	40.96	-2.34	H	38.62	53.98	15.36	AV
16800	52.26	1.04	H	53.30	68.20	14.90	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	52.76	-1.98	V	50.78	73.98	23.20	PK
11440	39.41	-1.98	V	37.43	53.98	16.55	AV
17160	51.77	2.38	V	54.15	68.20	14.05	PK
11440	53.80	-1.98	H	51.82	73.98	22.16	PK
11440	40.01	-1.98	H	38.03	53.98	15.95	AV
17160	52.46	2.38	H	54.84	68.20	13.36	PK

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	52.32	-2.21	V	50.11	73.98	23.87	PK
11000	40.45	-2.21	V	38.24	53.98	15.74	AV
16500	51.42	-0.52	V	50.90	68.20	17.30	PK
11000	53.95	-2.21	H	51.74	73.98	22.24	PK
11000	40.60	-2.21	H	38.39	53.98	15.59	AV
16500	52.19	-0.52	H	51.67	68.20	16.53	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	52.96	-2.34	V	50.62	73.98	23.36	PK
11200	40.06	-2.34	V	37.72	53.98	16.26	AV
16800	51.88	1.04	V	52.92	68.20	15.28	PK
11200	53.43	-2.34	H	51.09	73.98	22.89	PK
11200	40.93	-2.34	H	38.59	53.98	15.39	AV
16800	52.38	1.04	H	53.42	68.20	14.78	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	52.87	-1.98	V	50.89	73.98	23.09	PK
11440	38.57	-1.98	V	36.59	53.98	17.39	AV
17160	51.36	2.38	V	53.74	68.20	14.46	PK
11440	53.42	-1.98	H	51.44	73.98	22.54	PK
11440	39.91	-1.98	H	37.93	53.98	16.05	AV
17160	52.14	2.38	H	54.52	68.20	13.68	PK

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	52.78	-2.21	V	50.57	73.98	23.41	PK
11000	40.05	-2.21	V	37.84	53.98	16.14	AV
16500	51.86	-0.52	V	51.34	68.20	16.86	PK
11000	53.40	-2.21	H	51.19	73.98	22.79	PK
11000	40.53	-2.21	H	38.32	53.98	15.66	AV
16500	52.09	-0.52	H	51.57	68.20	16.63	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	53.49	-2.34	V	51.15	73.98	22.83	PK
11200	40.12	-2.34	V	37.78	53.98	16.20	AV
16800	51.21	1.04	V	52.25	68.20	15.95	PK
11200	54.56	-2.34	H	52.22	73.98	21.76	PK
11200	40.96	-2.34	H	38.62	53.98	15.36	AV
16800	52.60	1.04	H	53.64	68.20	14.56	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	51.79	-1.98	V	49.81	73.98	24.17	PK
11440	39.95	-1.98	V	37.97	53.98	16.01	AV
17160	51.75	2.38	V	54.13	68.20	14.07	PK
11440	52.74	-1.98	H	50.76	73.98	23.22	PK
11440	40.24	-1.98	H	38.26	53.98	15.72	AV
17160	52.03	2.38	H	54.41	68.20	13.79	PK

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	52.19	-2.01	V	50.18	73.98	23.80	PK
11020	40.82	-2.01	V	38.81	53.98	15.17	AV
16530	51.04	-0.95	V	50.09	68.20	18.11	PK
11020	53.68	-2.01	H	51.67	73.98	22.31	PK
11020	41.39	-2.01	H	39.38	53.98	14.60	AV
16530	52.84	-0.95	H	51.89	68.20	16.31	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	52.19	-1.85	V	50.34	73.98	23.64	PK
11180	40.62	-1.85	V	38.77	53.98	15.21	AV
16770	51.72	-0.91	V	50.81	68.20	17.39	PK
11180	54.03	-1.85	H	52.18	73.98	21.80	PK
11180	41.78	-1.85	H	39.93	53.98	14.05	AV
16770	52.26	-0.91	H	51.35	68.20	16.85	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	52.01	-1.92	V	50.09	73.98	23.89	PK
11420	40.42	-1.92	V	38.50	53.98	15.48	AV
17130	51.47	2.04	V	53.51	68.20	14.69	PK
11420	53.26	-1.92	H	51.34	73.98	22.64	PK
11420	40.61	-1.92	H	38.69	53.98	15.29	AV
17130	52.07	2.04	H	54.11	68.20	14.09	PK

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	52.24	-2.01	V	50.23	73.98	23.75	PK
11020	40.43	-2.01	V	38.42	53.98	15.56	AV
16530	51.64	-0.95	V	50.69	68.20	17.51	PK
11020	53.42	-2.01	H	51.41	73.98	22.57	PK
11020	41.61	-2.01	H	39.60	53.98	14.38	AV
16530	52.93	-0.95	H	51.98	68.20	16.22	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	53.91	-1.85	V	52.06	73.98	21.92	PK
11180	40.66	-1.85	V	38.81	53.98	15.17	AV
16770	51.02	-0.91	V	50.11	68.20	18.09	PK
11180	54.62	-1.85	H	52.77	73.98	21.21	PK
11180	41.79	-1.85	H	39.94	53.98	14.04	AV
16770	51.86	-0.91	H	50.95	68.20	17.25	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	52.18	-1.92	V	50.26	73.98	23.72	PK
11420	39.96	-1.92	V	38.04	53.98	15.94	AV
17130	51.43	2.04	V	53.47	68.20	14.73	PK
11420	52.71	-1.92	H	50.79	73.98	23.19	PK
11420	40.40	-1.92	H	38.48	53.98	15.50	AV
17130	52.68	2.04	H	54.72	68.20	13.48	PK

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	53.28	-2.06	V	51.22	73.98	22.76	PK
11060	42.85	-2.06	V	40.79	53.98	13.19	AV
16590	51.66	-0.96	V	50.70	68.20	17.50	PK
11060	54.48	-2.06	H	52.42	73.98	21.56	PK
11060	43.69	-2.06	H	41.63	53.98	12.35	AV
16590	52.59	-0.96	H	51.63	68.20	16.57	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	53.61	-2.63	V	50.98	73.98	23.00	PK
11220	41.78	-2.63	V	39.15	53.98	14.83	AV
16830	50.97	0.85	V	51.82	68.20	16.38	PK
11220	54.07	-2.63	H	51.44	73.98	22.54	PK
11220	42.93	-2.63	H	40.30	53.98	13.68	AV
16830	51.69	0.85	H	52.54	68.20	15.66	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	51.64	-2.02	V	49.62	73.98	24.36	PK
11380	41.11	-2.02	V	39.09	53.98	14.89	AV
17070	51.14	1.48	V	52.62	68.20	15.58	PK
11380	53.07	-2.02	H	51.05	73.98	22.93	PK
11380	42.18	-2.02	H	40.16	53.98	13.82	AV
17070	52.52	1.48	H	54.00	68.20	14.20	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	51.35	-2.07	V	49.28	73.98	24.70	PK
11490	39.96	-2.07	V	37.89	53.98	16.09	AV
17235	51.84	2.97	V	54.81	68.20	13.39	PK
11490	52.86	-2.07	H	50.79	73.98	23.19	PK
11490	40.09	-2.07	H	38.02	53.98	15.96	AV
17235	52.38	2.97	H	55.35	68.20	12.85	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	52.97	-2.13	V	50.84	73.98	23.14	PK
11570	40.49	-2.13	V	38.36	53.98	15.62	AV
17355	51.03	3.16	V	54.19	68.20	14.02	PK
11570	53.87	-2.13	H	51.74	73.98	22.24	PK
11570	40.70	-2.13	H	38.57	53.98	15.41	AV
17355	51.61	3.16	H	54.77	68.20	13.44	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	54.78	-2.56	V	52.22	73.98	21.76	PK
11650	40.17	-2.56	V	37.61	53.98	16.37	AV
17475	51.10	4.17	V	55.27	68.20	12.94	PK
11650	55.37	-2.56	H	52.81	73.98	21.17	PK
11650	41.25	-2.56	H	38.69	53.98	15.29	AV
17475	52.90	4.17	H	57.07	68.20	11.14	PK

Band : UNII 3

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5825 MHz & 2462 MHz

Channel No. 165 Ch & 11 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	52.63	-2.56	V	50.07	73.98	23.91	PK
11650	40.08	-2.56	V	37.52	53.98	16.46	AV
17475	51.80	4.17	V	55.97	68.20	12.24	PK
11650	54.35	-2.56	H	51.79	73.98	22.19	PK
11650	41.15	-2.56	H	38.59	53.98	15.39	AV
17475	52.40	4.17	H	56.57	68.20	11.64	PK

Note:

1. DBS Mode 2.4 GHz & 5GHz

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	52.15	-2.07	V	50.08	73.98	23.90	PK
11490	39.98	-2.07	V	37.91	53.98	16.07	AV
17235	50.89	2.97	V	53.86	68.20	14.34	PK
11490	53.37	-2.07	H	51.30	73.98	22.68	PK
11490	40.16	-2.07	H	38.09	53.98	15.89	AV
17235	51.72	2.97	H	54.69	68.20	13.51	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	53.75	-2.13	V	51.62	73.98	22.36	PK
11570	40.93	-2.13	V	38.80	53.98	15.18	AV
17355	50.88	3.16	V	54.04	68.20	14.17	PK
11570	55.41	-2.13	H	53.28	73.98	20.70	PK
11570	41.03	-2.13	H	38.90	53.98	15.08	AV
17355	51.66	3.16	H	54.82	68.20	13.39	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	53.39	-2.56	V	50.83	73.98	23.15	PK
11650	40.19	-2.56	V	37.63	53.98	16.35	AV
17475	51.02	4.17	V	55.19	68.20	13.02	PK
11650	54.36	-2.56	H	51.80	73.98	22.18	PK
11650	41.26	-2.56	H	38.70	53.98	15.28	AV
17475	51.66	4.17	H	55.83	68.20	12.38	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	52.64	-2.07	V	50.57	73.98	23.41	PK
11490	40.03	-2.07	V	37.96	53.98	16.02	AV
17235	51.47	2.97	V	54.44	68.20	13.76	PK
11490	53.19	-2.07	H	51.12	73.98	22.86	PK
11490	41.14	-2.07	H	39.07	53.98	14.91	AV
17235	52.51	2.97	H	55.48	68.20	12.72	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	53.58	-2.13	V	51.45	73.98	22.53	PK
11570	40.89	-2.13	V	38.76	53.98	15.22	AV
17355	50.67	3.16	V	53.83	68.20	14.38	PK
11570	54.73	-2.13	H	52.60	73.98	21.38	PK
11570	41.13	-2.13	H	39.00	53.98	14.98	AV
17355	51.80	3.16	H	54.96	68.20	13.25	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	53.21	-2.56	V	50.65	73.98	23.33	PK
11650	41.00	-2.56	V	38.44	53.98	15.54	AV
17475	51.25	4.17	V	55.42	68.20	12.79	PK
11650	54.96	-2.56	H	52.40	73.98	21.58	PK
11650	41.22	-2.56	H	38.66	53.98	15.32	AV
17475	51.73	4.17	H	55.90	68.20	12.31	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	52.11	-1.83	V	50.28	73.98	23.70	PK
11510	40.12	-1.83	V	38.29	53.98	15.69	AV
17265	51.26	2.60	V	53.86	68.20	14.35	PK
11510	53.68	-1.83	H	51.85	73.98	22.13	PK
11510	41.42	-1.83	H	39.59	53.98	14.39	AV
17265	52.23	2.60	H	54.83	68.20	13.38	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	52.78	-2.10	V	50.68	73.98	23.30	PK
11590	40.95	-2.10	V	38.85	53.98	15.13	AV
17385	51.40	3.42	V	54.82	68.20	13.38	PK
11590	53.61	-2.10	H	51.51	73.98	22.47	PK
11590	41.81	-2.10	H	39.71	53.98	14.27	AV
17385	51.86	3.42	H	55.28	68.20	12.92	PK

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	52.49	-1.83	V	50.66	73.98	23.32	PK
11510	41.06	-1.83	V	39.23	53.98	14.75	AV
17265	51.98	2.60	V	54.58	68.20	13.63	PK
11510	53.64	-1.83	H	51.81	73.98	22.17	PK
11510	41.25	-1.83	H	39.42	53.98	14.56	AV
17265	52.58	2.60	H	55.18	68.20	13.03	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	53.65	-2.10	V	51.55	73.98	22.43	PK
11590	40.26	-2.10	V	38.16	53.98	15.82	AV
17385	50.83	3.42	V	54.25	68.20	13.95	PK
11590	54.01	-2.10	H	51.91	73.98	22.07	PK
11590	41.68	-2.10	H	39.58	53.98	14.40	AV
17385	51.26	3.42	H	54.68	68.20	13.52	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

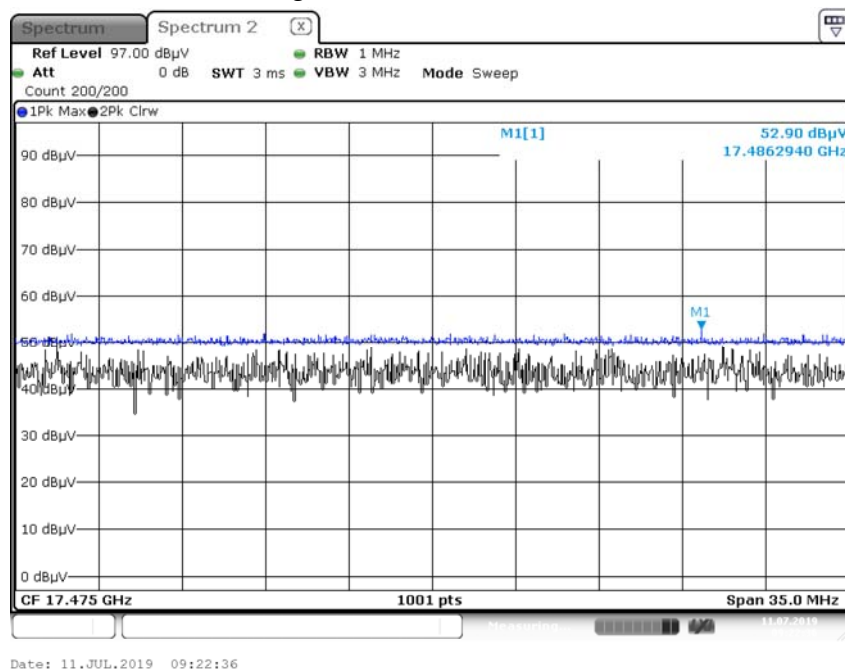
Operating Frequency 5775 MHz

Channel No. 155 Ch

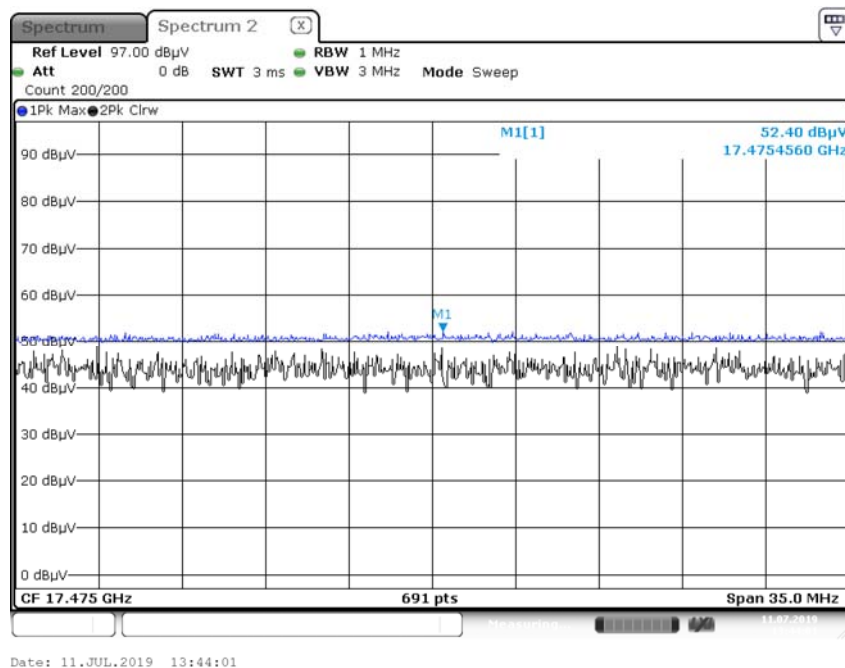
Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	53.84	-1.50	V	52.34	73.98	21.64	PK
11550	43.01	-1.50	V	41.51	53.98	12.47	AV
17325	51.32	3.32	V	54.64	68.20	13.57	PK
11550	54.38	-1.50	H	52.88	73.98	21.10	PK
11550	43.57	-1.50	H	42.07	53.98	11.91	AV
17325	52.29	3.32	H	55.61	68.20	12.60	PK

Test Plots

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



DBS Mode 2.4 GHz & 5GHz Peak Reading (802.11a, Ch.11 & 165, 3rd Harmonic, X-H)



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	48.16	3.89	H	52.05	73.98	21.93	PK
5150	36.45	3.89	H	40.34	53.98	13.64	AV
5150	48.97	3.89	V	52.86	73.98	21.12	PK
5150	36.74	3.89	V	40.63	53.98	13.35	AV

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	46.69	3.89	H	50.58	73.98	23.40	PK
5150	36.61	3.89	H	40.5	53.98	13.48	AV
5150	48.70	3.89	V	52.59	73.98	21.39	PK
5150	36.79	3.89	V	40.68	53.98	13.30	AV

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	47.29	3.89	H	51.18	73.98	22.80	PK
5150	36.22	3.89	H	40.11	53.98	13.87	AV
5150	48.28	3.89	V	52.17	73.98	21.81	PK
5150	36.90	3.89	V	40.79	53.98	13.19	AV

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	48.26	3.89	H	52.15	73.98	21.83	PK
5150	36.94	3.89	H	40.83	53.98	13.15	AV
5150	49.10	3.89	V	52.99	73.98	20.99	PK
5150	37.26	3.89	V	41.15	53.98	12.83	AV

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	47.71	3.89	H	51.60	73.98	22.38	PK
5150	37.47	3.89	H	41.36	53.98	12.62	AV
5150	48.57	3.89	V	52.46	73.98	21.52	PK
5150	36.91	3.89	V	40.8	53.98	13.18	AV

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.85	3.89	H	52.74	73.98	21.24	PK
5150	38.40	3.89	H	42.29	53.98	11.69	AV
5150	50.45	3.89	V	54.34	73.98	19.64	PK
5150	39.13	3.89	V	43.02	53.98	10.96	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	48.74	4.22	H	52.96	73.98	21.02	PK
5350	36.03	4.22	H	40.25	53.98	13.73	AV
5350	47.81	4.22	V	52.03	73.98	21.95	PK
5350	35.76	4.22	V	39.98	53.98	14.00	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	49.32	4.22	H	53.54	73.98	20.44	PK
5350	35.69	4.22	H	39.91	53.98	14.07	AV
5350	48.05	4.22	V	52.27	73.98	21.71	PK
5350	35.32	4.22	V	39.54	53.98	14.44	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	49.08	4.22	H	53.30	73.98	20.68	PK
5350	35.89	4.22	H	40.11	53.98	13.87	AV
5350	48.41	4.22	V	52.63	73.98	21.35	PK
5350	35.63	4.22	V	39.85	53.98	14.13	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	49.65	4.22	H	53.87	73.98	20.11	PK
5350	36.65	4.22	H	40.87	53.98	13.11	AV
5350	48.22	4.22	V	52.44	73.98	21.54	PK
5350	35.57	4.22	V	39.79	53.98	14.19	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	49.25	4.22	H	53.47	73.98	20.51	PK
5350	36.47	4.22	H	40.69	53.98	13.29	AV
5350	48.11	4.22	V	52.33	73.98	21.65	PK
5350	36.02	4.22	V	40.24	53.98	13.74	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	49.84	4.22	H	54.06	73.98	19.92	PK
5350	39.86	4.22	H	44.08	53.98	9.90	AV
5350	50.27	4.22	V	54.49	73.98	19.49	PK
5350	40.17	4.22	V	44.39	53.98	9.59	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	48.82	5.10	H	53.92	73.98	20.06	PK
5460	35.91	5.10	H	41.01	53.98	12.97	AV
5470	48.24	5.06	H	53.3	68.20	14.90	PK
5460	49.24	5.10	V	54.34	73.98	19.64	PK
5460	36.26	5.10	V	41.36	53.98	12.62	AV
5470	49.47	5.06	V	54.53	68.20	13.67	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	47.45	7.41	H	54.86	68.20	13.34	PK
5850	48.43	7.41	V	55.84	68.20	12.36	PK

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	47.91	5.10	H	53.01	73.98	20.97	PK
5460	35.81	5.10	H	40.91	53.98	13.07	AV
5470	53.85	5.06	H	58.91	68.20	9.29	PK
5460	48.49	5.10	V	53.59	73.98	20.39	PK
5460	36.08	5.10	V	41.18	53.98	12.80	AV
5470	54.65	5.06	V	59.71	68.20	8.49	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	47.89	7.41	H	55.30	68.20	12.90	PK
5850	48.05	7.41	V	55.46	68.20	12.74	PK

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.61	5.10	H	52.71	73.98	21.27	PK
5460	35.99	5.10	H	41.09	53.98	12.89	AV
5470	53.65	5.06	H	58.71	68.20	9.49	PK
5460	48.88	5.10	V	53.98	73.98	20.00	PK
5460	36.24	5.10	V	41.34	53.98	12.64	AV
5470	54.81	5.06	V	59.87	68.20	8.33	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	48.17	7.41	H	55.58	68.20	12.62	PK
5850	49.14	7.41	V	56.55	68.20	11.65	PK

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	47.61	5.10	H	52.71	73.98	21.27	PK
5460	36.07	5.10	H	41.17	53.98	12.81	AV
5470	52.91	5.06	H	57.97	68.20	10.23	PK
5460	48.64	5.10	V	53.74	73.98	20.24	PK
5460	36.76	5.10	V	41.86	53.98	12.12	AV
5470	53.75	5.06	V	58.81	68.20	9.39	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	47.96	7.41	H	55.37	68.20	12.83	PK
5850	48.21	7.41	V	55.62	68.20	12.58	PK

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	47.96	5.10	H	53.06	73.98	20.92	PK
5460	36.02	5.10	H	41.12	53.98	12.86	AV
5470	50.03	5.06	H	55.09	68.20	13.11	PK
5460	48.37	5.10	V	53.47	73.98	20.51	PK
5460	36.56	5.10	V	41.66	53.98	12.32	AV
5470	50.54	5.06	V	55.6	68.20	12.60	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	47.73	7.41	H	55.14	68.20	13.06	PK
5850	48.62	7.41	V	56.03	68.20	12.17	PK

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

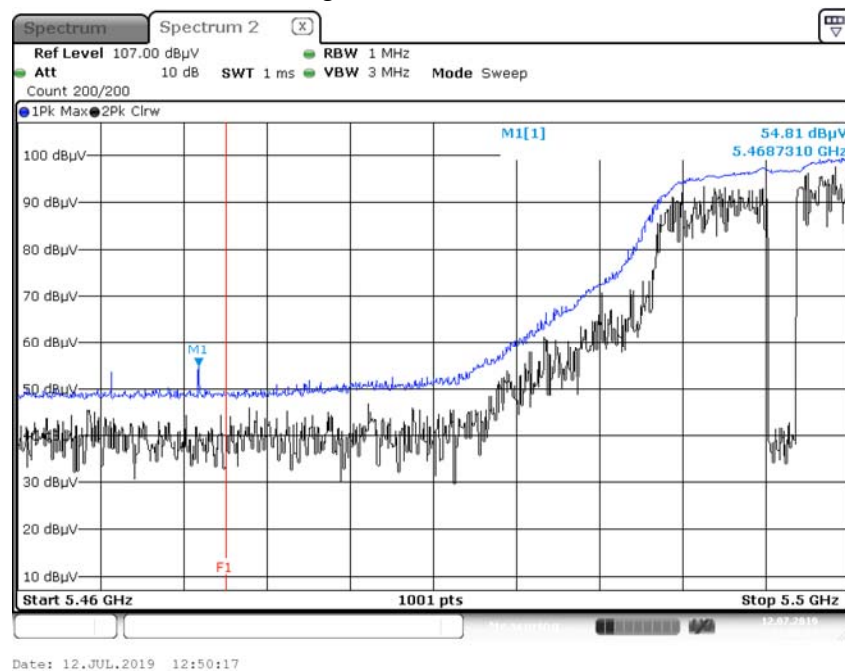
Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBUV/m]	Limit [dBUV/m]	Margin [dB]	Measurement Type
5460	48.38	5.10	H	53.48	73.98	20.50	PK
5460	37.09	5.10	H	42.19	53.98	11.79	AV
5470	49.98	5.06	H	55.04	68.20	13.16	PK
5460	48.87	5.10	V	53.97	73.98	20.01	PK
5460	38.73	5.10	V	43.83	53.98	10.15	AV
5470	50.08	5.06	V	55.14	68.20	13.06	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	48.01	7.41	H	55.42	68.20	12.78	PK
5850	48.36	7.41	V	55.77	68.20	12.43	PK

Test Plots(UNII 1, 2A, 2C)

Peak Reading (802.11ac_VHT20, Ch.100, X-V)

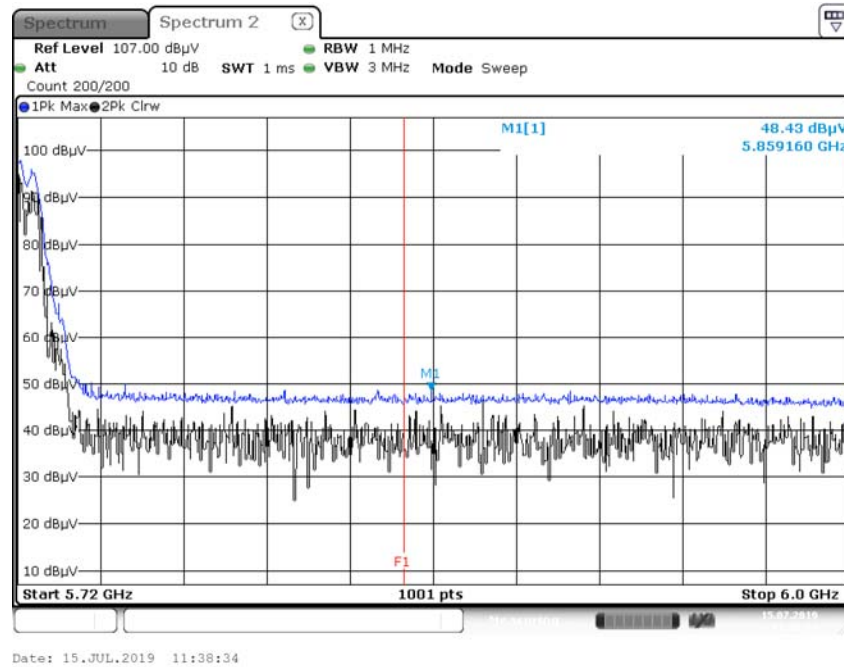


Note:

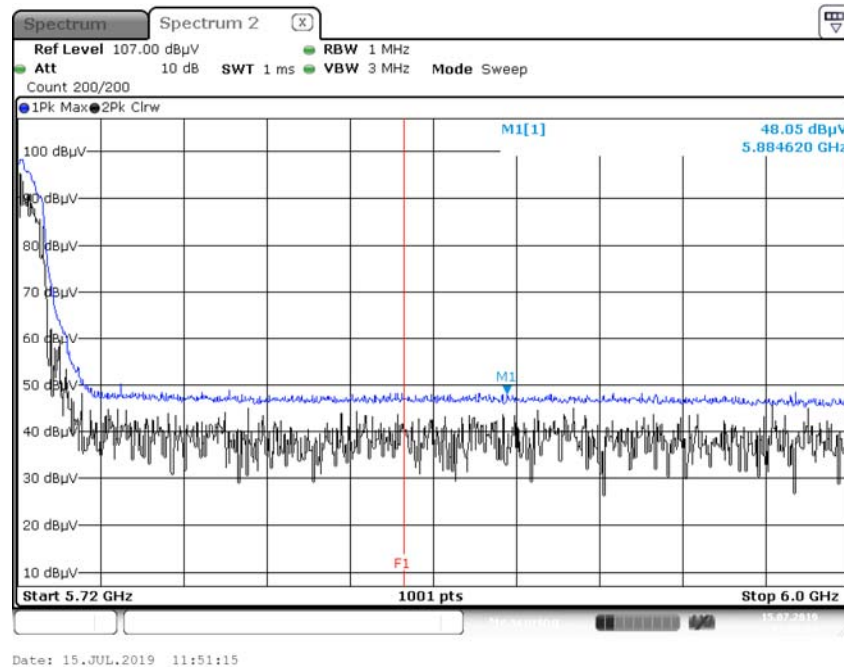
Only the worst case plots for Radiated Restricted Band Edge.

Test Plots(Staraddle Channel)

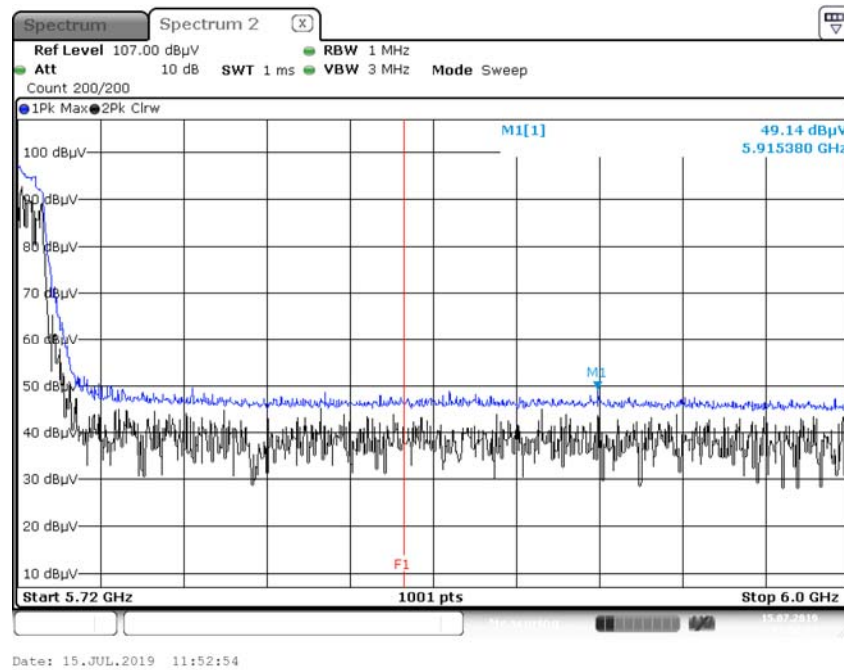
Peak Reading (802.11a, Ch.144, Y-H)



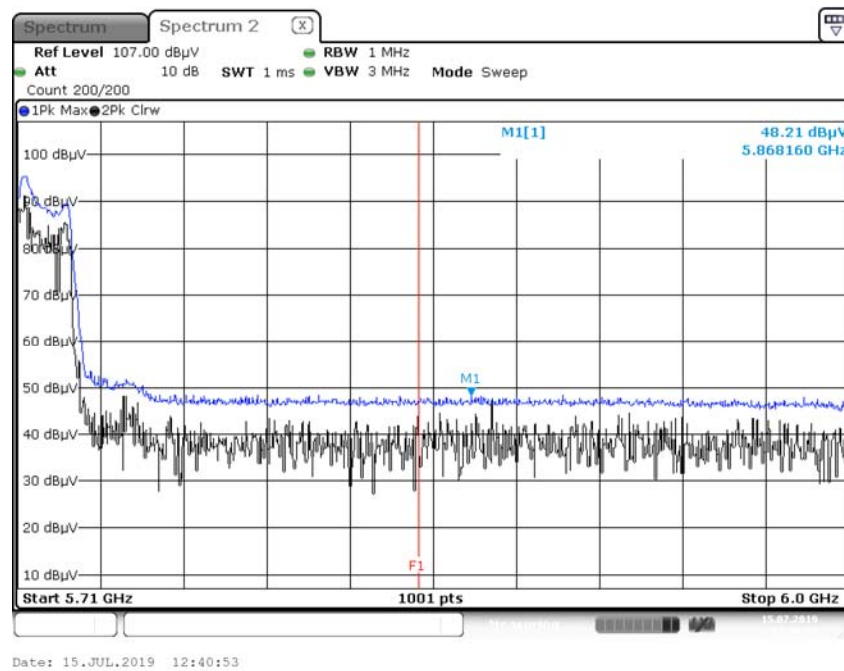
Peak Reading (802.11n_HT20, Ch.144, Y-H)



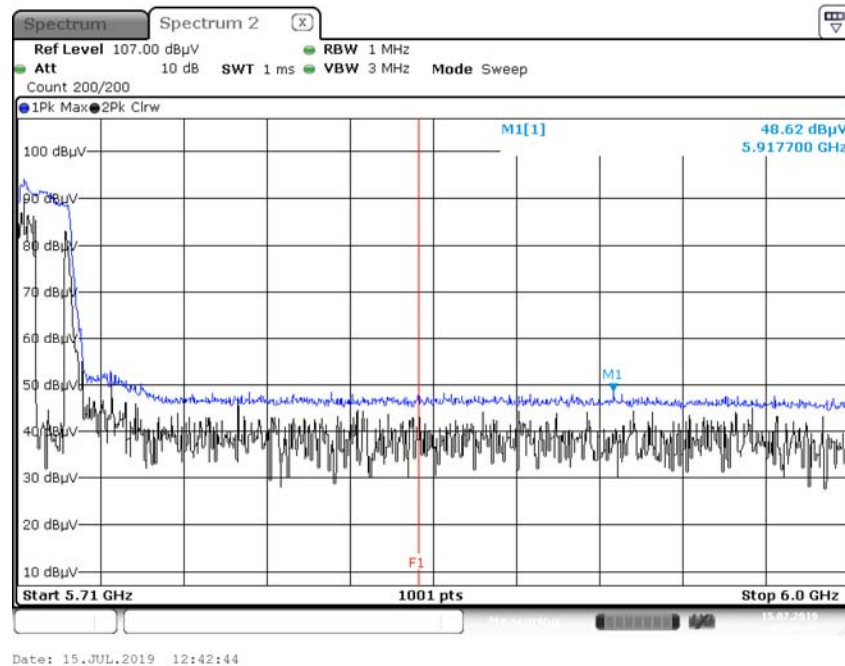
Peak Reading (802.11ac_VHT20, Ch.144, Y-H)



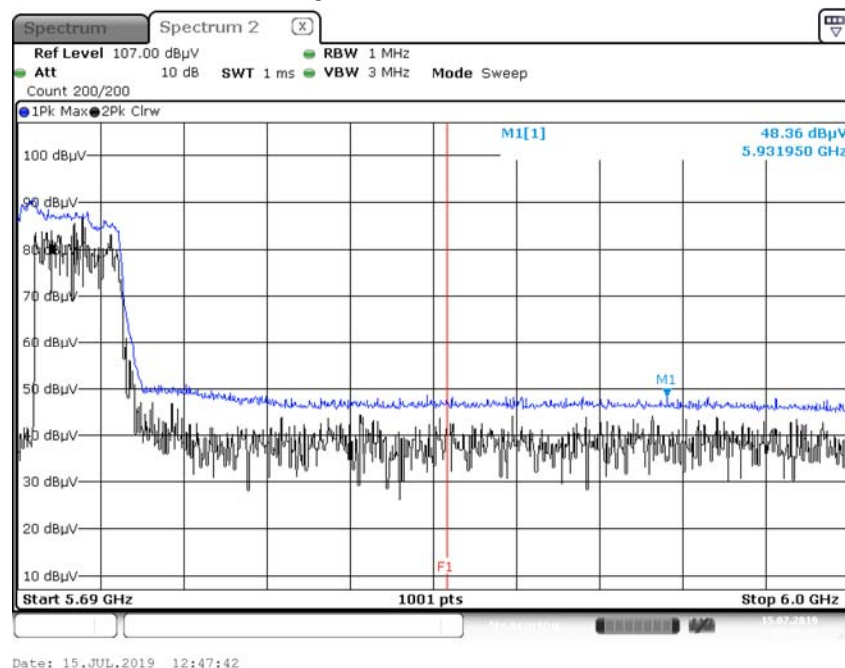
Peak Reading (802.11n_HT40, Ch.142, Y-H)



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



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

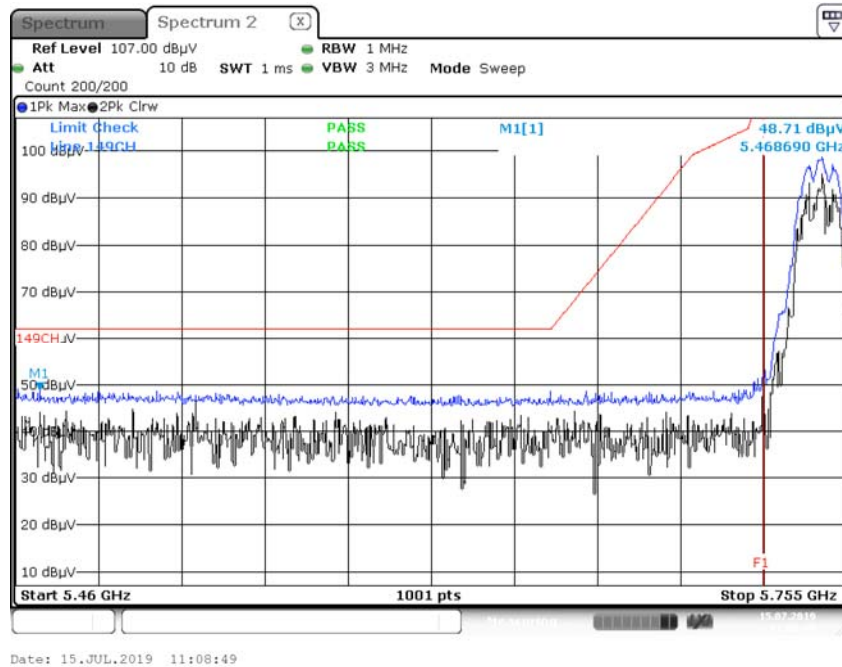


Note :

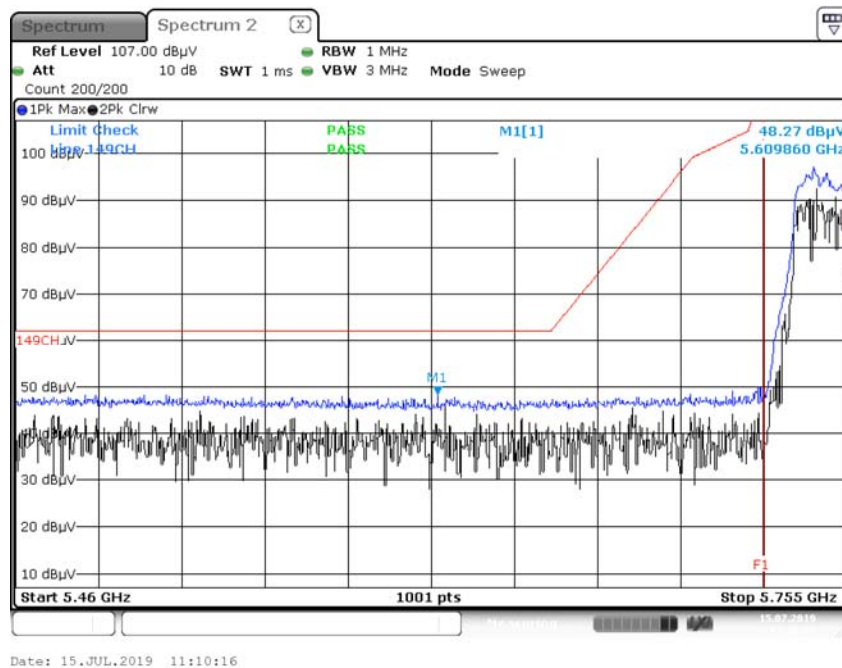
1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

Test Plots(UNII 3)

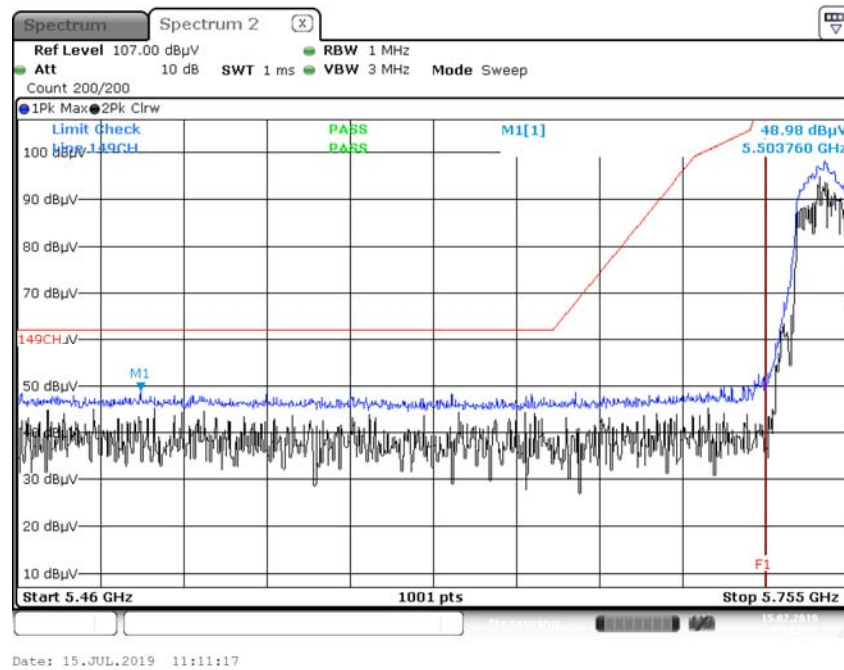
Peak Reading (802.11a, Ch.149, Z-V)



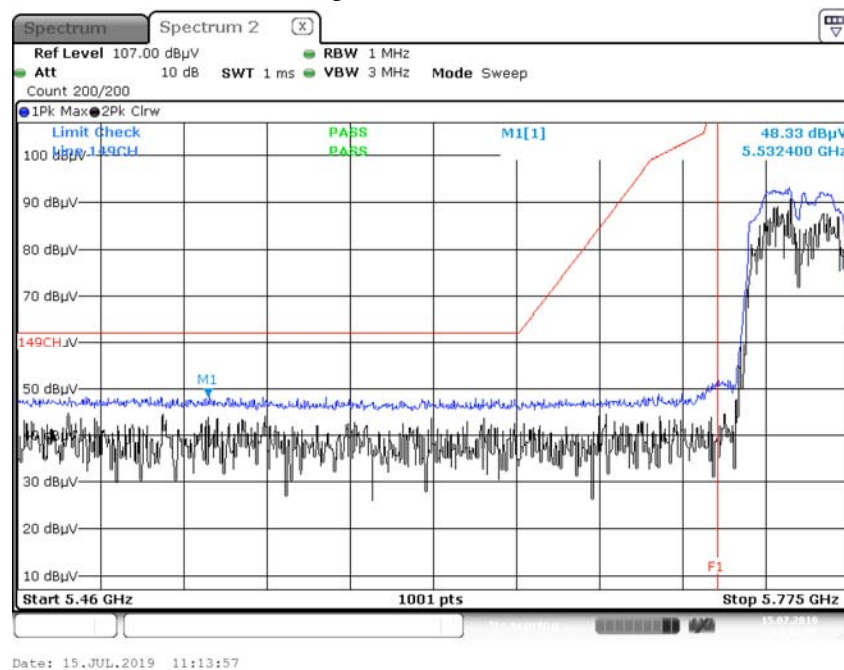
Peak Reading (802.11n_HT20, Ch.149, Z-V)



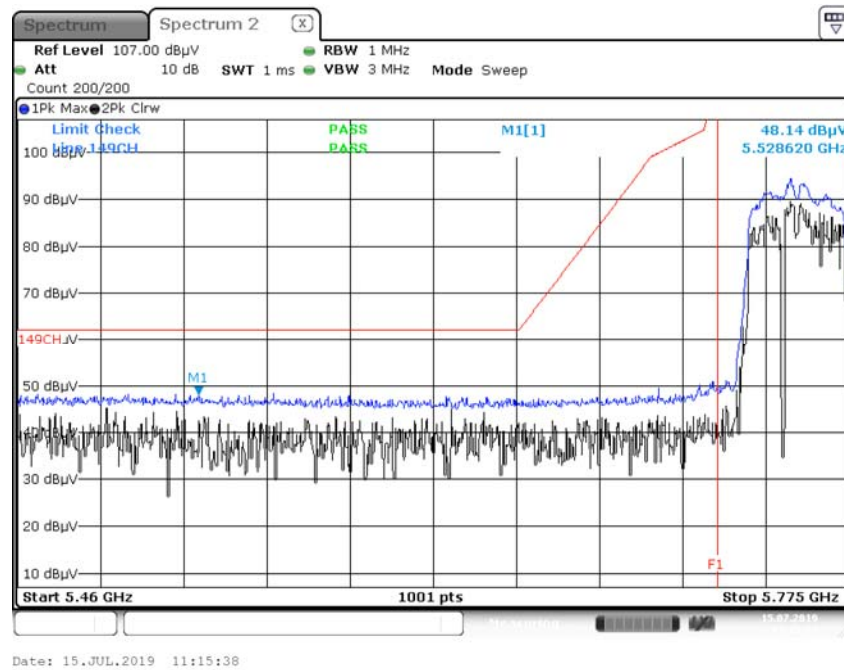
Peak Reading (802.11ac_VHT20, Ch.149, Z-V)



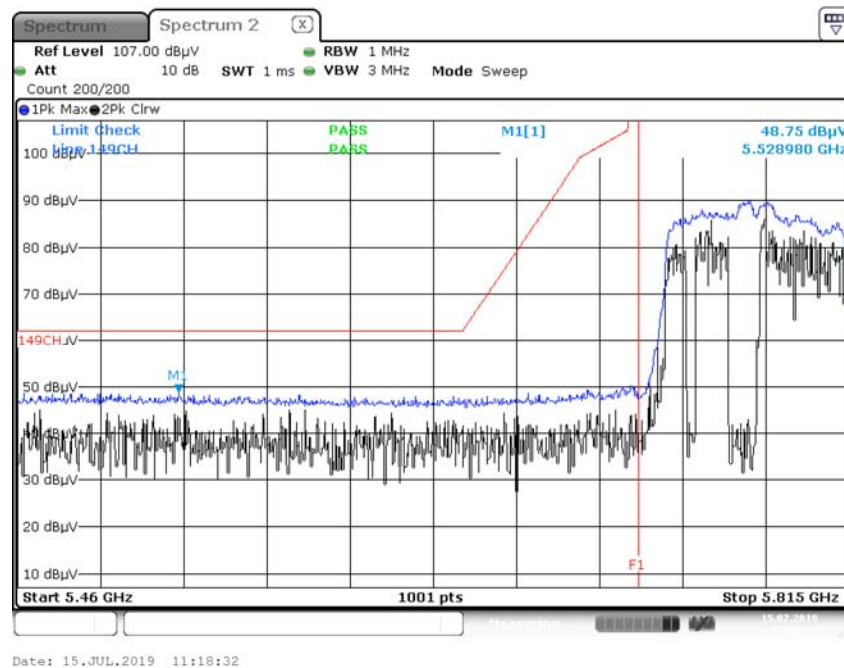
Peak Reading (802.11n_HT40, Ch.151, Z-V)



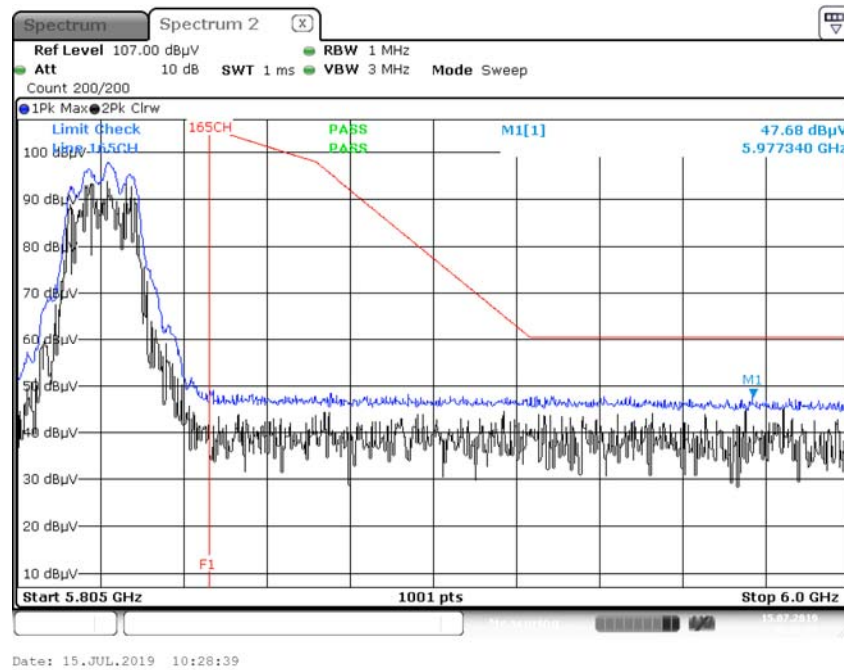
Peak Reading (802.11ac_VHT40, Ch.151, Z-V)



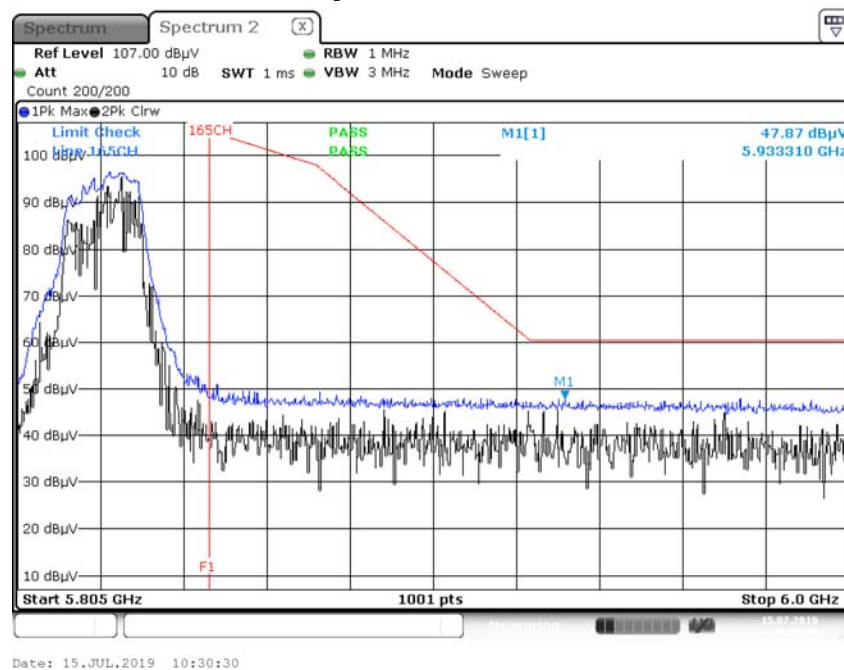
Peak Reading (802.11ac_VHT80, Ch.155, Z-V)



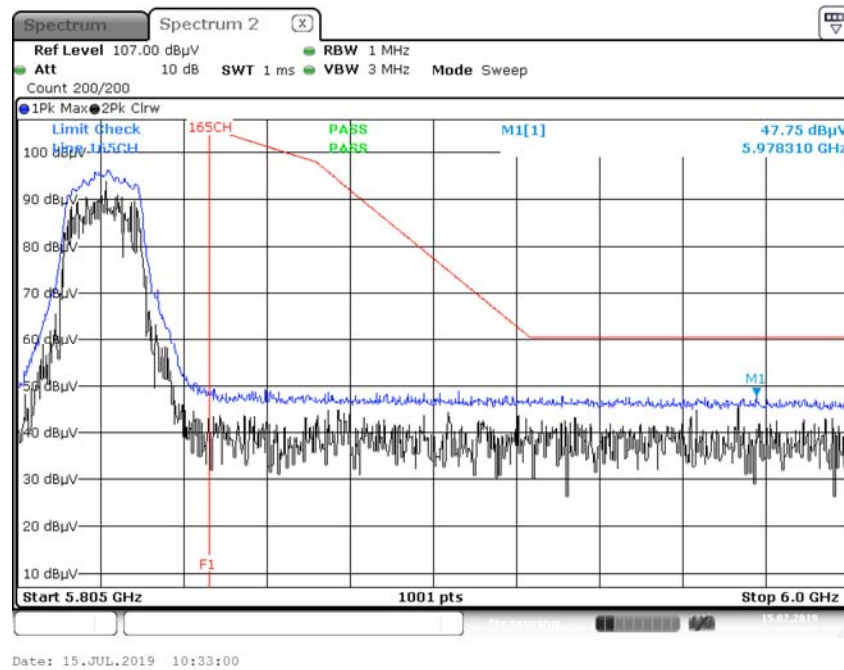
Peak Reading (802.11a, Ch.165, Z-V)



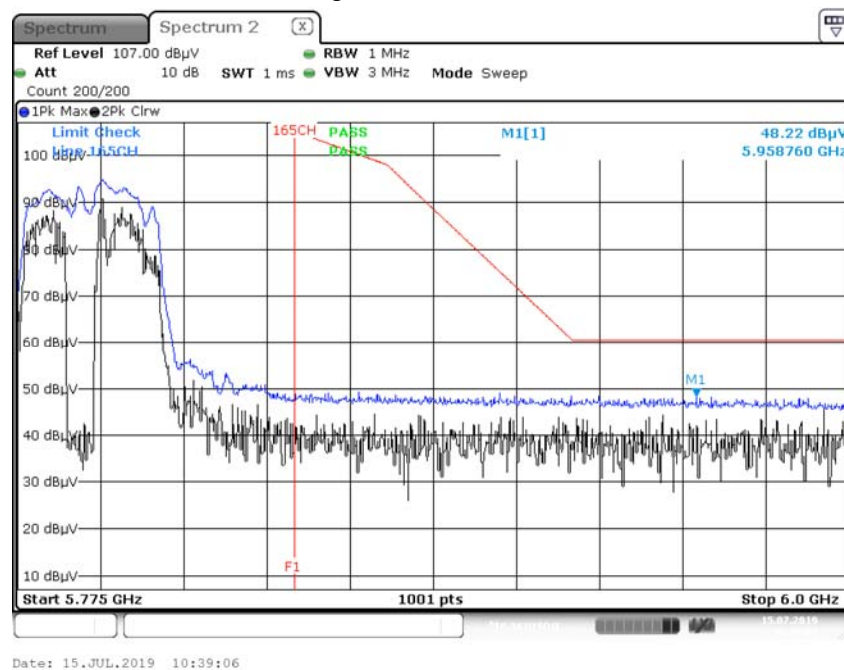
Peak Reading (802.11n_HT20, Ch.165, Z-V)



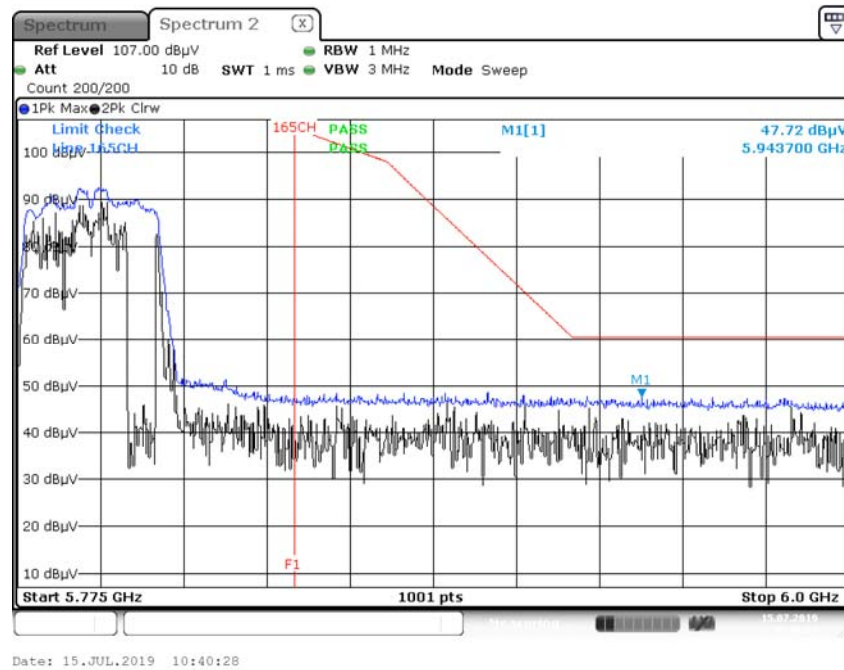
Peak Reading (802.11ac_VHT20, Ch.165, Z-V)



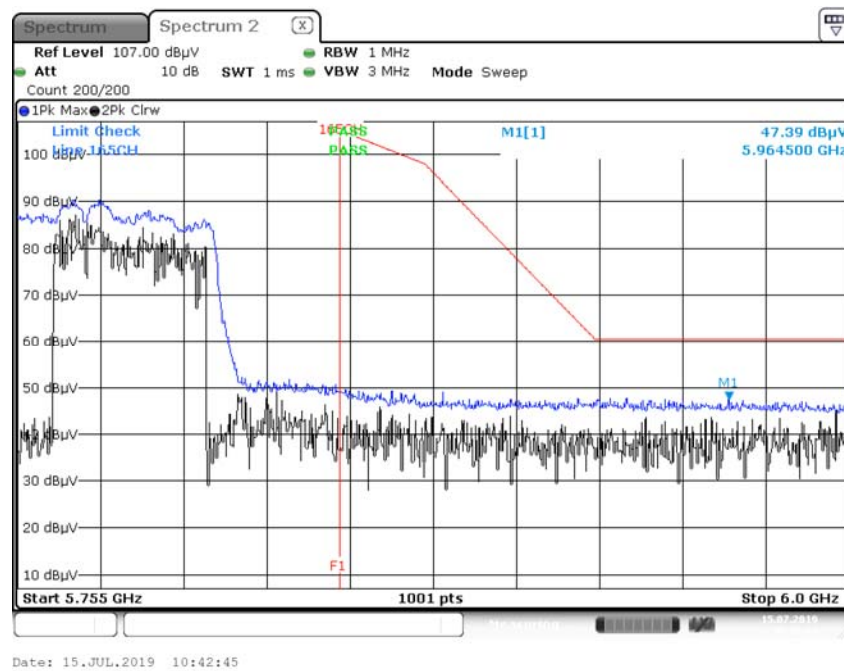
Peak Reading (802.11n_HT40, Ch.159, Z-V)



Peak Reading (802.11ac_VHT40, Ch.159, Z-V)



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



10.10 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

5G L1

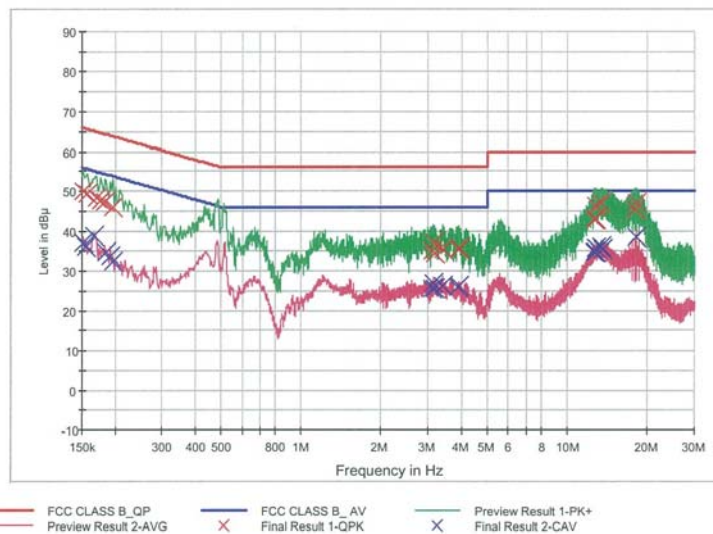
1 / 2

HCT TEST Report

Common Information

EUT: SM-W767
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: DATA_5G_L1

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	50.0	9.000	Off	L1	9.7	15.9	65.9
0.158000	49.4	9.000	Off	L1	9.7	16.2	65.6
0.170000	48.3	9.000	Off	L1	9.7	16.7	65.0
0.176000	47.6	9.000	Off	L1	9.7	17.1	64.7
0.184000	47.3	9.000	Off	L1	9.7	17.0	64.3
0.196000	46.0	9.000	Off	L1	9.7	17.8	63.8
3.092000	35.1	9.000	Off	L1	9.9	20.9	56.0
3.124000	37.0	9.000	Off	L1	9.9	19.0	56.0
3.182000	34.5	9.000	Off	L1	9.9	21.5	56.0
3.404000	35.5	9.000	Off	L1	9.9	20.5	56.0
3.930000	35.5	9.000	Off	L1	10.0	20.5	56.0
3.940000	35.7	9.000	Off	L1	10.0	20.3	56.0
12.658000	42.9	9.000	Off	L1	10.3	17.1	60.0
12.700000	43.0	9.000	Off	L1	10.3	17.0	60.0
12.834000	46.2	9.000	Off	L1	10.3	13.8	60.0
13.350000	46.9	9.000	Off	L1	10.4	13.1	60.0
18.000000	45.4	9.000	Off	L1	10.5	14.6	60.0
18.042000	47.1	9.000	Off	L1	10.5	13.0	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	37.0	9.000	Off	L1	9.7	18.9	55.9
0.156000	36.2	9.000	Off	L1	9.7	19.5	55.7
0.166000	38.7	9.000	Off	L1	9.7	16.4	55.2
0.186000	34.8	9.000	Off	L1	9.7	19.4	54.2
0.192000	33.6	9.000	Off	L1	9.7	20.3	53.9
0.196000	32.5	9.000	Off	L1	9.7	21.3	53.8
3.092000	25.5	9.000	Off	L1	9.9	20.5	46.0
3.124000	26.8	9.000	Off	L1	9.9	19.2	46.0
3.182000	25.7	9.000	Off	L1	9.9	20.3	46.0
3.404000	26.1	9.000	Off	L1	9.9	19.9	46.0
3.890000	25.9	9.000	Off	L1	10.0	20.1	46.0
3.940000	26.1	9.000	Off	L1	10.0	19.9	46.0
12.694000	34.7	9.000	Off	L1	10.3	15.3	50.0
12.700000	34.7	9.000	Off	L1	10.3	15.3	50.0
12.836000	35.8	9.000	Off	L1	10.3	14.2	50.0
13.350000	36.1	9.000	Off	L1	10.4	13.9	50.0
13.592000	35.6	9.000	Off	L1	10.4	14.4	50.0
18.042000	38.5	9.000	Off	L1	10.5	11.5	50.0

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Conducted Emissions (Line 2)

5G N

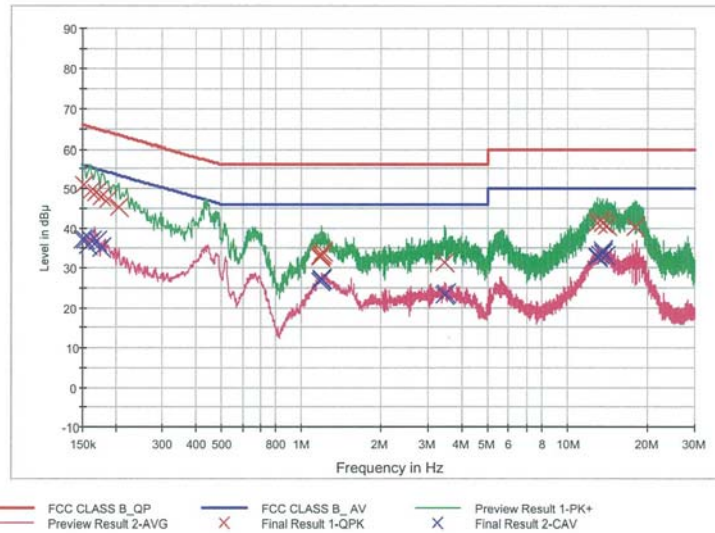
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HCT TEST Report

Common Information

EUT: SM-W767
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: DATA_5G_N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	51.0	9.000	Off	N	9.8	14.9	65.9
0.160000	49.4	9.000	Off	N	9.8	16.1	65.5
0.168000	48.8	9.000	Off	N	9.8	16.2	65.1
0.176000	48.0	9.000	Off	N	9.8	16.7	64.7
0.188000	47.2	9.000	Off	N	9.8	16.9	64.1
0.206000	45.3	9.000	Off	N	9.9	18.0	63.4
1.172000	33.2	9.000	Off	N	10.0	22.8	56.0
1.180000	32.8	9.000	Off	N	10.0	23.2	56.0
1.188000	33.3	9.000	Off	N	10.0	22.7	56.0
1.194000	33.4	9.000	Off	N	10.0	22.6	56.0
1.202000	34.1	9.000	Off	N	10.0	21.9	56.0
3.466000	31.3	9.000	Off	N	10.1	24.7	56.0
12.960000	41.3	9.000	Off	N	10.6	18.7	60.0
12.992000	41.3	9.000	Off	N	10.6	18.7	60.0
13.300000	41.9	9.000	Off	N	10.6	18.1	60.0
13.524000	41.0	9.000	Off	N	10.6	19.0	60.0
14.086000	40.4	9.000	Off	N	10.6	19.6	60.0
17.928000	40.2	9.000	Off	N	10.8	19.8	60.0

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	37.2	9.000	Off	N	9.8	18.8	56.0
0.154000	37.0	9.000	Off	N	9.8	18.8	55.8
0.158000	35.8	9.000	Off	N	9.8	19.8	55.6
0.162000	36.9	9.000	Off	N	9.8	18.5	55.4
0.170000	36.7	9.000	Off	N	9.8	18.3	55.0
0.176000	35.0	9.000	Off	N	9.8	19.7	54.7
1.172000	26.8	9.000	Off	N	10.0	19.2	46.0
1.180000	26.6	9.000	Off	N	10.0	19.4	46.0
1.188000	27.1	9.000	Off	N	10.0	18.9	46.0
1.194000	27.3	9.000	Off	N	10.0	18.7	46.0
3.464000	23.4	9.000	Off	N	10.1	22.6	46.0
3.470000	23.5	9.000	Off	N	10.1	22.5	46.0
12.960000	32.9	9.000	Off	N	10.6	17.1	50.0
12.992000	33.1	9.000	Off	N	10.6	16.9	50.0
13.300000	33.5	9.000	Off	N	10.6	16.5	50.0
13.556000	33.8	9.000	Off	N	10.6	16.2	50.0
13.560000	34.4	9.000	Off	N	10.6	15.6	50.0
13.894000	33.0	9.000	Off	N	10.6	17.0	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	12/12/2018	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	11/20/2018	Annual	MY49431210
Agilent	N1911A / Power Meter	04/10/2019	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/10/2019	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/24/2019	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/18/2019	Annual	KR75303960
WEINSCHEL	2-20 / Attenuator(20 dB)	10/26/2018	Annual	BR0592
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
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	03/22/2019	Biennial	760
Schwarzbeck	VULB 9160 / TRILOG Antenna	08/09/2018	Biennial	9160-3368
Schwarzbeck	BBHA 9120D / Horn Antenna	08/01/2017	Biennial	1151
Schwarzbeck	BBHA 9120D / Horn Antenna	04/29/2019	Biennial	937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/03/2018	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/28/2018	Annual	101068-SZ
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	05/23/2019	Annual	8
Wainwright Instruments	WHKX7.0/18G-8SS / High Pass Filter	05/03/2019	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/19/2019	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2019	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/04/2019	Annual	1
H+S	5910-N-50-010 / Attenuator(10 dB)	11/08/2018	Annual	NONE
CERNEX	CBLU1183540 / Power Amplifier	07/01/2019	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/01/2019	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/18/2019	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/26/2019	Annual	3000C000276

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.

12. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1907-FC005-P