

[ANT2]

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	3.315	1.897	5.212	11.00
802.11n(HT20)			2.782	2.006	4.788	11.00
802.11ac(VHT20)			3.089	2.174	5.263	11.00
802.11a	5720 (UNII 3 Band)	144	0.248	1.897	2.145	30.00
802.11n(HT20)			-0.254	2.006	1.752	30.00
802.11ac(VHT20)			-0.110	2.174	2.064	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	-1.097	2.988	1.891	11.00
802.11ac(VHT40)			-1.313	3.273	1.960	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-4.139	2.988	-1.151	30.00
802.11ac(VHT40)			-5.507	3.273	-2.234	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	-5.365	3.398	-1.967	11.00
	5690 (UNII 3 Band)	138	-10.923	3.398	-7.525	30.00

☐ Test Plots_[ANT1]

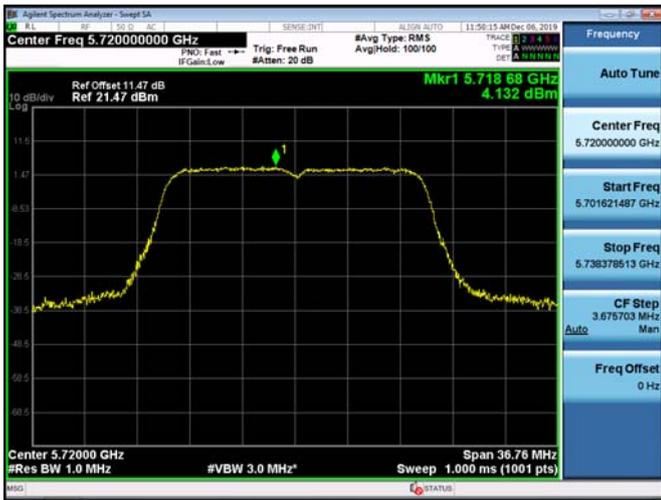
802.11a UNII 2C Band



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]

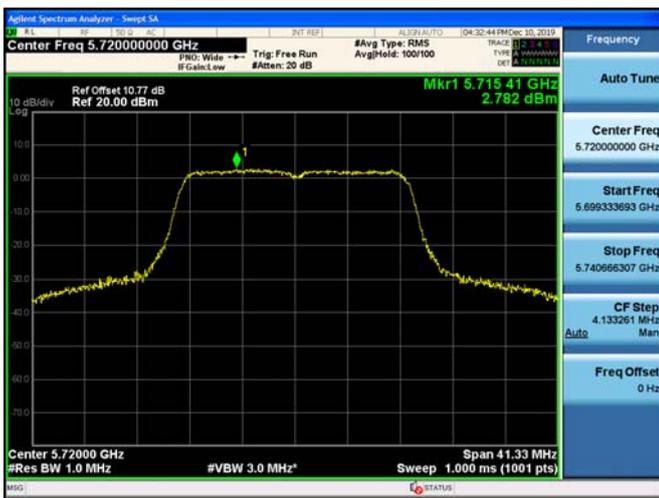
802.11a UNII 2C Band



802.11a UNII 3 Band



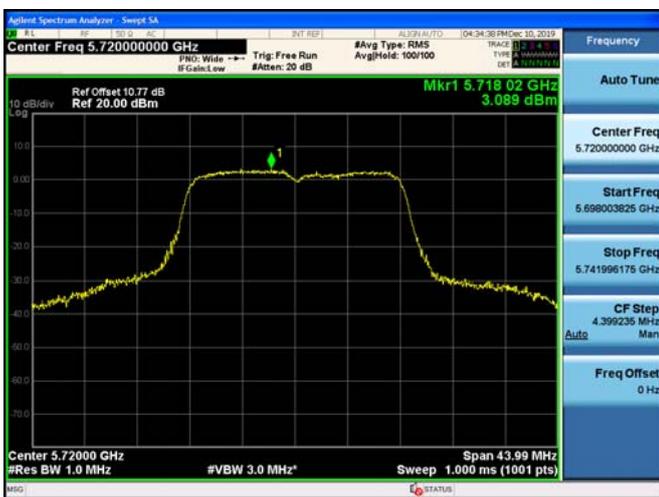
802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



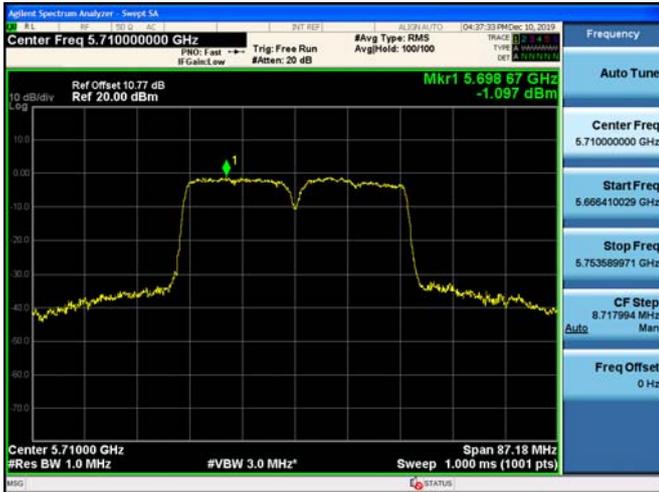
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



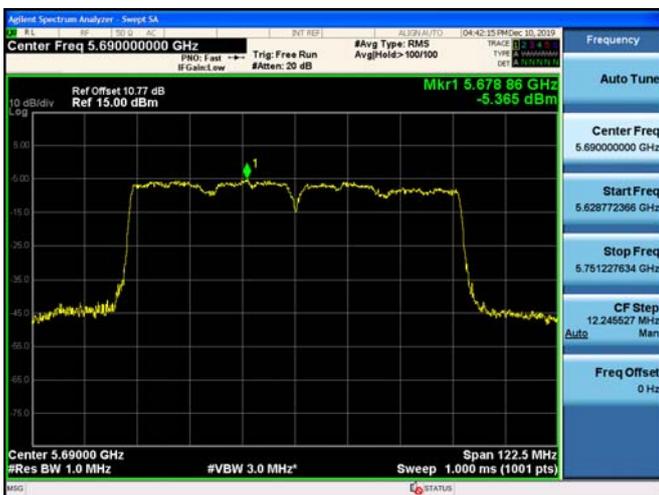
802.11ac(VHT40) UNII 2C Band



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 = $40\log(\text{specific distance} / \text{test distance})$ (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	62.63	-3.29	V	59.34	68.20	8.86	PK
15540	64.54	-3.24	V	61.30	73.98	12.68	PK
15540	49.27	-3.24	V	46.03	53.98	7.95	AV
10360	63.46	-3.29	H	60.17	68.20	8.03	PK
15540	63.91	-3.24	H	60.67	73.98	13.31	PK
15540	48.93	-3.24	H	45.69	53.98	8.29	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	58.64	-2.43	V	56.21	68.20	11.99	PK
15600	63.44	-2.90	V	60.54	73.98	13.44	PK
15600	48.77	-2.90	V	45.87	53.98	8.11	AV
10400	59.81	-2.43	H	57.38	68.20	10.82	PK
15600	62.75	-2.90	H	59.85	73.98	14.13	PK
15600	48.01	-2.90	H	45.11	53.98	8.87	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	58.32	-2.37	V	55.95	68.20	12.25	PK
15720	64.05	-3.03	V	61.02	73.98	12.96	PK
15720	49.12	-3.03	V	46.09	53.98	7.89	AV
10480	59.07	-2.37	H	56.70	68.20	11.50	PK
15720	63.46	-3.03	H	60.43	73.98	13.55	PK
15720	48.50	-3.03	H	45.47	53.98	8.51	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	59.11	-2.40	V	56.71	68.20	11.49	PK
15780	61.87	-2.92	V	58.95	73.98	15.03	PK
15780	46.20	-2.92	V	43.28	53.98	10.70	AV
10520	59.57	-2.40	H	57.17	68.20	11.03	PK
15780	60.95	-2.92	H	58.03	73.98	15.95	PK
15780	45.35	-2.92	H	42.43	53.98	11.55	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	56.88	-2.20	V	54.68	73.98	19.30	PK
10600	45.01	-2.20	V	42.81	53.98	11.17	AV
15900	60.14	-2.90	V	57.24	73.98	16.74	PK
15900	45.77	-2.90	V	42.87	53.98	11.11	AV
10600	57.84	-2.20	H	55.64	73.98	18.34	PK
10600	45.60	-2.20	H	43.40	53.98	10.58	AV
15900	59.44	-2.90	H	56.54	73.98	17.44	PK
15900	45.16	-2.90	H	42.26	53.98	11.72	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	57.63	-2.52	V	55.11	73.98	18.87	PK
10640	44.52	-2.52	V	42.00	53.98	11.98	AV
15960	61.67	-3.40	V	58.27	73.98	15.71	PK
15960	45.45	-3.40	V	42.05	53.98	11.93	AV
10640	57.09	-2.52	H	54.57	73.98	19.41	PK
10640	44.30	-2.52	H	41.78	53.98	12.20	AV
15960	59.35	-3.40	H	55.95	73.98	18.03	PK
15960	45.00	-3.40	H	41.60	53.98	12.38	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	59.45	-1.76	V	57.69	73.98	16.29	PK
11000	47.09	-1.76	V	45.33	53.98	8.65	AV
16500	61.61	-1.31	V	60.30	68.20	7.90	PK
11000	56.31	-1.76	H	54.55	73.98	19.43	PK
11000	44.51	-1.76	H	42.75	53.98	11.23	AV
16500	59.37	-1.31	H	58.06	68.20	10.14	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	60.56	-2.21	V	58.35	73.98	15.63	PK
11200	48.08	-2.21	V	45.87	53.98	8.11	AV
16800	61.40	0.69	V	62.09	68.20	6.11	PK
11200	58.82	-2.21	H	56.61	73.98	17.37	PK
11200	46.67	-2.21	H	44.46	53.98	9.52	AV
16800	60.55	0.69	H	61.24	68.20	6.96	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	61.53	-2.12	V	59.41	73.98	14.57	PK
11440	47.95	-2.12	V	45.83	53.98	8.15	AV
17160	57.35	1.29	V	58.64	68.20	9.56	PK
11440	60.43	-2.12	H	58.31	73.98	15.67	PK
11440	47.12	-2.12	H	45.00	53.98	8.98	AV
17160	56.23	1.29	H	57.52	68.20	10.68	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	61.92	-2.83	V	59.09	73.98	14.89	PK
11490	48.67	-2.83	V	45.84	53.98	8.14	AV
17235	59.36	1.75	V	61.11	68.20	7.10	PK
11490	60.58	-2.83	H	57.75	73.98	16.23	PK
11490	48.34	-2.83	H	45.51	53.98	8.47	AV
17235	58.65	1.75	H	60.40	68.20	7.81	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	60.81	-2.62	V	58.19	73.98	15.79	PK
11570	48.44	-2.62	V	45.82	53.98	8.16	AV
17355	58.47	2.90	V	61.37	68.20	6.84	PK
11570	61.23	-2.62	H	58.61	73.98	15.37	PK
11570	48.95	-2.62	H	46.33	53.98	7.65	AV
17355	57.77	2.90	H	60.67	68.20	7.54	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	62.59	-2.26	V	60.33	73.98	13.65	PK
11650	48.43	-2.26	V	46.17	53.98	7.81	AV
17475	57.50	4.60	V	62.10	68.20	6.10	PK
11650	63.72	-2.26	H	61.46	73.98	12.52	PK
11650	49.57	-2.26	H	47.31	53.98	6.67	AV
17475	57.11	4.60	H	61.71	68.20	6.49	PK

Report No.: HCT-RF-2001-FC017

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	60.41	-3.29	V	57.12	68.20	11.08	PK
15540	63.16	-3.24	V	59.92	73.98	14.06	PK
15540	48.29	-3.24	V	45.05	53.98	8.93	AV
10360	61.44	-3.29	H	58.15	68.20	10.05	PK
15540	61.58	-3.24	H	58.34	73.98	15.64	PK
15540	47.78	-3.24	H	44.54	53.98	9.44	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	59.23	-2.43	V	56.80	68.20	11.40	PK
15600	62.43	-2.90	V	59.53	73.98	14.45	PK
15600	48.07	-2.90	V	45.17	53.98	8.81	AV
10400	60.33	-2.43	H	57.90	68.20	10.30	PK
15600	61.56	-2.90	H	58.66	73.98	15.32	PK
15600	47.80	-2.90	H	44.90	53.98	9.08	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	59.11	-2.37	V	56.74	68.20	11.46	PK
15720	63.48	-3.03	V	60.45	73.98	13.53	PK
15720	48.65	-3.03	V	45.62	53.98	8.36	AV
10480	59.82	-2.37	H	57.45	68.20	10.75	PK
15720	63.01	-3.03	H	59.98	73.98	14.00	PK
15720	48.02	-3.03	H	44.99	53.98	8.99	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	58.68	-2.40	V	56.28	68.20	11.92	PK
15780	60.09	-2.92	V	57.17	73.98	16.81	PK
15780	44.76	-2.92	V	41.84	53.98	12.14	AV
10520	58.09	-2.40	H	55.69	68.20	12.51	PK
15780	59.12	-2.92	H	56.20	73.98	17.78	PK
15780	44.29	-2.92	H	41.37	53.98	12.61	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	57.87	-2.20	V	55.67	73.98	18.31	PK
10600	44.57	-2.20	V	42.37	53.98	11.61	AV
15900	59.30	-2.90	V	56.40	73.98	17.58	PK
15900	44.88	-2.90	V	41.98	53.98	12.00	AV
10600	58.07	-2.20	H	55.87	73.98	18.11	PK
10600	44.91	-2.20	H	42.71	53.98	11.27	AV
15900	58.50	-2.90	H	55.60	73.98	18.38	PK
15900	44.35	-2.90	H	41.45	53.98	12.53	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	57.18	-2.52	V	54.66	73.98	19.32	PK
10640	43.93	-2.52	V	41.41	53.98	12.57	AV
15960	59.74	-3.40	V	56.34	73.98	17.64	PK
15960	45.59	-3.40	V	42.19	53.98	11.79	AV
10640	56.91	-2.52	H	54.39	73.98	19.59	PK
10640	43.15	-2.52	H	40.63	53.98	13.35	AV
15960	58.88	-3.40	H	55.48	73.98	18.50	PK
15960	44.97	-3.40	H	41.57	53.98	12.41	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	58.30	-1.76	V	56.54	73.98	17.44	PK
11000	44.69	-1.76	V	42.93	53.98	11.05	AV
16500	57.52	-1.31	V	56.21	68.20	11.99	PK
11000	57.11	-1.76	H	55.35	73.98	18.63	PK
11000	42.70	-1.76	H	40.94	53.98	13.04	AV
16500	55.95	-1.31	H	54.64	68.20	13.56	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	59.94	-2.21	V	57.73	73.98	16.25	PK
11200	46.78	-2.21	V	44.57	53.98	9.41	AV
16800	60.70	0.69	V	61.39	68.20	6.81	PK
11200	56.70	-2.21	H	54.49	73.98	19.49	PK
11200	43.15	-2.21	H	40.94	53.98	13.04	AV
16800	60.53	0.69	H	61.22	68.20	6.98	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	60.13	-2.12	V	58.01	73.98	15.97	PK
11440	46.76	-2.12	V	44.64	53.98	9.34	AV
17160	56.36	1.29	V	57.65	68.20	10.55	PK
11440	59.30	-2.12	H	57.18	73.98	16.80	PK
11440	46.21	-2.12	H	44.09	53.98	9.89	AV
17160	55.19	1.29	H	56.48	68.20	11.72	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	61.96	-2.83	V	59.13	73.98	14.85	PK
11490	48.25	-2.83	V	45.42	53.98	8.56	AV
17235	58.94	1.75	V	60.69	68.20	7.52	PK
11490	61.01	-2.83	H	58.18	73.98	15.80	PK
11490	47.86	-2.83	H	45.03	53.98	8.95	AV
17235	58.31	1.75	H	60.06	68.20	8.15	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	60.33	-2.62	V	57.71	73.98	16.27	PK
11570	47.65	-2.62	V	45.03	53.98	8.95	AV
17355	58.43	2.90	V	61.33	68.20	6.88	PK
11570	61.25	-2.62	H	58.63	73.98	15.35	PK
11570	48.18	-2.62	H	45.56	53.98	8.42	AV
17355	58.12	2.90	H	61.02	68.20	7.19	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	60.35	-2.26	V	58.09	73.98	15.89	PK
11650	48.30	-2.26	V	46.04	53.98	7.94	AV
17475	56.38	4.60	V	60.98	68.20	7.22	PK
11650	61.53	-2.26	H	59.27	73.98	14.71	PK
11650	48.67	-2.26	H	46.41	53.98	7.57	AV
17475	55.40	4.60	H	60.00	68.20	8.20	PK

Report No.: HCT-RF-2001-FC017

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	59.69	-3.29	V	56.40	68.20	11.80	PK
15540	60.81	-3.24	V	57.57	73.98	16.41	PK
15540	46.27	-3.24	V	43.03	53.98	10.95	AV
10360	61.39	-3.29	H	58.10	68.20	10.10	PK
15540	59.68	-3.24	H	56.44	73.98	17.54	PK
15540	45.61	-3.24	H	42.37	53.98	11.61	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	59.11	-2.43	V	56.68	68.20	11.52	PK
15600	62.30	-2.90	V	59.40	73.98	14.58	PK
15600	47.98	-2.90	V	45.08	53.98	8.90	AV
10400	59.80	-2.43	H	57.37	68.20	10.83	PK
15600	61.85	-2.90	H	58.95	73.98	15.03	PK
15600	47.25	-2.90	H	44.35	53.98	9.63	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	56.87	-2.37	V	54.50	68.20	13.70	PK
15720	61.92	-3.03	V	58.89	73.98	15.09	PK
15720	47.35	-3.03	V	44.32	53.98	9.66	AV
10480	57.51	-2.37	H	55.14	68.20	13.06	PK
15720	60.59	-3.03	H	57.56	73.98	16.42	PK
15720	46.88	-3.03	H	43.85	53.98	10.13	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	58.50	-2.40	V	56.10	68.20	12.10	PK
15780	58.79	-2.92	V	55.87	73.98	18.11	PK
15780	44.00	-2.92	V	41.08	53.98	12.90	AV
10520	57.99	-2.40	H	55.59	68.20	12.61	PK
15780	58.04	-2.92	H	55.12	73.98	18.86	PK
15780	43.50	-2.92	H	40.58	53.98	13.40	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	56.68	-2.20	V	54.48	73.98	19.50	PK
10600	43.88	-2.20	V	41.68	53.98	12.30	AV
15900	58.30	-2.90	V	55.40	73.98	18.58	PK
15900	43.81	-2.90	V	40.91	53.98	13.07	AV
10600	57.76	-2.20	H	55.56	73.98	18.42	PK
10600	44.19	-2.20	H	41.99	53.98	11.99	AV
15900	57.61	-2.90	H	54.71	73.98	19.27	PK
15900	43.24	-2.90	H	40.34	53.98	13.64	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	57.58	-2.52	V	55.06	73.98	18.92	PK
10640	43.50	-2.52	V	40.98	53.98	13.00	AV
15960	59.66	-3.40	V	56.26	73.98	17.72	PK
15960	44.29	-3.40	V	40.89	53.98	13.09	AV
10640	56.40	-2.52	H	53.88	73.98	20.10	PK
10640	43.01	-2.52	H	40.49	53.98	13.49	AV
15960	59.45	-3.40	H	56.05	73.98	17.93	PK
15960	43.39	-3.40	H	39.99	53.98	13.99	AV

Report No.: HCT-RF-2001-FC017

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	58.19	-1.76	V	56.43	73.98	17.55	PK
11000	44.50	-1.76	V	42.74	53.98	11.24	AV
16500	57.34	-1.31	V	56.03	68.20	12.17	PK
11000	57.08	-1.76	H	55.32	73.98	18.66	PK
11000	42.90	-1.76	H	41.14	53.98	12.84	AV
16500	56.00	-1.31	H	54.69	68.20	13.51	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	59.48	-2.21	V	57.27	73.98	16.71	PK
11200	47.10	-2.21	V	44.89	53.98	9.09	AV
16800	58.98	0.69	V	59.67	68.20	8.53	PK
11200	57.65	-2.21	H	55.44	73.98	18.54	PK
11200	45.38	-2.21	H	43.17	53.98	10.81	AV
16800	58.14	0.69	H	58.83	68.20	9.37	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	59.64	-2.12	V	57.52	73.98	16.46	PK
11440	46.71	-2.12	V	44.59	53.98	9.39	AV
17160	56.50	1.29	V	57.79	68.20	10.41	PK
11440	58.50	-2.12	H	56.38	73.98	17.60	PK
11440	46.30	-2.12	H	44.18	53.98	9.80	AV
17160	55.98	1.29	H	57.27	68.20	10.93	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	61.53	-2.83	V	58.70	73.98	15.28	PK
11490	47.98	-2.83	V	45.15	53.98	8.83	AV
17235	58.25	1.75	V	60.00	68.20	8.21	PK
11490	60.66	-2.83	H	57.83	73.98	16.15	PK
11490	47.14	-2.83	H	44.31	53.98	9.67	AV
17235	56.35	1.75	H	58.10	68.20	10.11	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	60.96	-2.62	V	58.34	73.98	15.64	PK
11570	47.52	-2.62	V	44.90	53.98	9.08	AV
17355	56.59	2.90	V	59.49	68.20	8.72	PK
11570	61.12	-2.62	H	58.50	73.98	15.48	PK
11570	47.60	-2.62	H	44.98	53.98	9.00	AV
17355	55.87	2.90	H	58.77	68.20	9.44	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	60.51	-2.26	V	58.25	73.98	15.73	PK
11650	48.09	-2.26	V	45.83	53.98	8.15	AV
17475	55.31	4.60	V	59.91	68.20	8.29	PK
11650	61.75	-2.26	H	59.49	73.98	14.49	PK
11650	48.47	-2.26	H	46.21	53.98	7.77	AV
17475	54.84	4.60	H	59.44	68.20	8.76	PK

Report No.: HCT-RF-2001-FC017

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	55.24	-3.13	V	52.11	68.20	16.09	PK
15570	54.80	-2.26	V	52.54	73.98	21.44	PK
15570	39.61	-2.26	V	37.35	53.98	16.63	AV
10380	55.72	-3.13	H	52.59	68.20	15.61	PK
15570	54.33	-2.26	H	52.07	73.98	21.91	PK
15570	39.33	-2.26	H	37.07	53.98	16.91	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	56.50	-3.08	V	53.42	68.20	14.78	PK
15690	58.98	-3.24	V	55.74	73.98	18.24	PK
15690	45.01	-3.24	V	41.77	53.98	12.21	AV
10460	57.03	-3.08	H	53.95	68.20	14.25	PK
15690	58.55	-3.24	H	55.31	73.98	18.67	PK
15690	44.61	-3.24	H	41.37	53.98	12.61	AV

Report No.: HCT-RF-2001-FC017

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	58.34	-2.71	V	55.63	68.20	12.57	PK
15810	58.00	-2.77	V	55.23	73.98	18.75	PK
15810	41.72	-2.77	V	38.95	53.98	15.03	AV
10540	57.10	-2.71	H	54.39	68.20	13.81	PK
15810	57.94	-2.77	H	55.17	73.98	18.81	PK
15810	41.34	-2.77	H	38.57	53.98	15.41	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	54.33	-2.37	V	51.96	73.98	22.02	PK
10620	41.01	-2.37	V	38.64	53.98	15.34	AV
15930	53.40	-2.43	V	50.97	73.98	23.01	PK
15930	38.75	-2.43	V	36.32	53.98	17.66	AV
10620	53.56	-2.37	H	51.19	73.98	22.79	PK
10620	40.50	-2.37	H	38.13	53.98	15.85	AV
15930	52.42	-2.43	H	49.99	73.98	23.99	PK
15930	38.40	-2.43	H	35.97	53.98	18.01	AV

Report No.: HCT-RF-2001-FC017

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	52.18	-1.31	V	50.87	73.98	23.11	PK
11020	40.24	-1.31	V	38.93	53.98	15.05	AV
16530	51.37	-0.96	V	50.41	68.20	17.79	PK
11020	50.89	-1.31	H	49.58	73.98	24.40	PK
11020	39.10	-1.31	H	37.79	53.98	16.19	AV
16530	49.57	-0.96	H	48.61	68.20	19.59	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	56.70	-1.32	V	55.38	73.98	18.60	PK
11180	44.87	-1.32	V	43.55	53.98	10.43	AV
16770	55.42	-0.47	V	54.95	68.20	13.25	PK
11180	54.76	-1.32	H	53.44	73.98	20.54	PK
11180	43.60	-1.32	H	42.28	53.98	11.70	AV
16770	54.93	-0.47	H	54.46	68.20	13.74	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	56.50	-2.33	V	54.17	73.98	19.81	PK
11420	44.61	-2.33	V	42.28	53.98	11.70	AV
17130	54.43	2.04	V	56.47	68.20	11.73	PK
11420	55.91	-2.33	H	53.58	73.98	20.40	PK
11420	44.18	-2.33	H	41.85	53.98	12.13	AV
17130	53.40	2.04	H	55.44	68.20	12.76	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	57.99	-2.25	V	55.74	73.98	18.24	PK
11510	45.14	-2.25	V	42.89	53.98	11.09	AV
17265	53.32	2.85	V	56.17	68.20	12.04	PK
11510	57.31	-2.25	H	55.06	73.98	18.92	PK
11510	44.48	-2.25	H	42.23	53.98	11.75	AV
17265	52.61	2.85	H	55.46	68.20	12.75	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	57.61	-2.25	V	55.36	73.98	18.62	PK
11590	44.97	-2.25	V	42.72	53.98	11.26	AV
17385	53.21	3.54	V	56.75	68.20	11.45	PK
11590	58.45	-2.25	H	56.20	73.98	17.78	PK
11590	45.18	-2.25	H	42.93	53.98	11.05	AV
17385	52.39	3.54	H	55.93	68.20	12.27	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	54.45	-3.13	V	51.32	68.20	16.88	PK
15570	54.31	-2.26	V	52.05	73.98	21.93	PK
15570	39.51	-2.26	V	37.25	53.98	16.73	AV
10380	55.68	-3.13	H	52.55	68.20	15.65	PK
15570	53.29	-2.26	H	51.03	73.98	22.95	PK
15570	39.32	-2.26	H	37.06	53.98	16.92	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	54.78	-3.08	V	51.70	68.20	16.50	PK
15690	57.79	-3.24	V	54.55	73.98	19.43	PK
15690	43.61	-3.24	V	40.37	53.98	13.61	AV
10460	56.81	-3.08	H	53.73	68.20	14.47	PK
15690	57.05	-3.24	H	53.81	73.98	20.17	PK
15690	43.10	-3.24	H	39.86	53.98	14.12	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	58.11	-2.71	V	55.40	68.20	12.80	PK
15810	57.52	-2.77	V	54.75	73.98	19.23	PK
15810	41.35	-2.77	V	38.58	53.98	15.40	AV
10540	57.05	-2.71	H	54.34	68.20	13.86	PK
15810	57.04	-2.77	H	54.27	73.98	19.71	PK
15810	41.10	-2.77	H	38.33	53.98	15.65	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	54.80	-2.37	V	52.43	73.98	21.55	PK
10620	41.14	-2.37	V	38.77	53.98	15.21	AV
15930	53.51	-2.43	V	51.08	73.98	22.90	PK
15930	38.66	-2.43	V	36.23	53.98	17.75	AV
10620	53.44	-2.37	H	51.07	73.98	22.91	PK
10620	40.42	-2.37	H	38.05	53.98	15.93	AV
15930	51.98	-2.43	H	49.55	73.98	24.43	PK
15930	38.25	-2.43	H	35.82	53.98	18.16	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	52.50	-1.31	V	51.19	73.98	22.79	PK
11020	40.30	-1.31	V	38.99	53.98	14.99	AV
16530	50.90	-0.96	V	49.94	68.20	18.26	PK
11020	51.19	-1.31	H	49.88	73.98	24.10	PK
11020	39.35	-1.31	H	38.04	53.98	15.94	AV
16530	49.80	-0.96	H	48.84	68.20	19.36	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	57.10	-1.32	V	55.78	73.98	18.20	PK
11180	44.03	-1.32	V	42.71	53.98	11.27	AV
16770	55.70	-0.47	V	55.23	68.20	12.97	PK
11180	54.65	-1.32	H	53.33	73.98	20.65	PK
11180	43.78	-1.32	H	42.46	53.98	11.52	AV
16770	55.02	-0.47	H	54.55	68.20	13.65	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	57.14	-2.33	V	54.81	73.98	19.17	PK
11420	44.08	-2.33	V	41.75	53.98	12.23	AV
17130	54.69	2.04	V	56.73	68.20	11.47	PK
11420	56.11	-2.33	H	53.78	73.98	20.20	PK
11420	43.75	-2.33	H	41.42	53.98	12.56	AV
17130	54.05	2.04	H	56.09	68.20	12.11	PK

Report No.: HCT-RF-2001-FC017

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	57.70	-2.25	V	55.45	73.98	18.53	PK
11510	44.73	-2.25	V	42.48	53.98	11.50	AV
17265	52.76	2.85	V	55.61	68.20	12.60	PK
11510	56.93	-2.25	H	54.68	73.98	19.30	PK
11510	44.30	-2.25	H	42.05	53.98	11.93	AV
17265	52.50	2.85	H	55.35	68.20	12.86	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	56.98	-2.25	V	54.73	73.98	19.25	PK
11590	44.74	-2.25	V	42.49	53.98	11.49	AV
17385	52.54	3.54	V	56.08	68.20	12.12	PK
11590	57.69	-2.25	H	55.44	73.98	18.54	PK
11590	44.88	-2.25	H	42.63	53.98	11.35	AV
17385	51.27	3.54	H	54.81	68.20	13.39	PK

Report No.: HCT-RF-2001-FC017

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	53.30	-2.34	V	50.96	68.20	17.24	PK
15630	51.90	-3.11	V	48.79	73.98	25.19	PK
15630	39.00	-3.11	V	35.89	53.98	18.09	AV
10420	54.10	-2.34	H	51.76	68.20	16.44	PK
15630	50.32	-3.11	H	47.21	73.98	26.77	PK
15630	38.95	-3.11	H	35.84	53.98	18.14	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	52.59	-2.26	V	50.33	68.20	17.87	PK
15870	52.74	-2.52	V	50.22	73.98	23.76	PK
15870	39.74	-2.52	V	37.22	53.98	16.76	AV
10580	53.98	-2.26	H	51.72	68.20	16.48	PK
15870	51.68	-2.52	H	49.16	73.98	24.82	PK
15870	38.88	-2.52	H	36.36	53.98	17.62	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	52.92	-1.57	V	51.35	73.98	22.63	PK
11060	40.10	-1.57	V	38.53	53.98	15.45	AV
16590	51.79	-1.06	V	50.73	68.20	17.47	PK
11060	51.33	-1.57	H	49.76	73.98	24.22	PK
11060	39.63	-1.57	H	38.06	53.98	15.92	AV
16590	50.25	-1.06	H	49.19	68.20	19.01	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	54.20	-2.60	V	51.60	73.98	22.38	PK
11220	41.37	-2.60	V	38.77	53.98	15.21	AV
16830	51.50	0.35	V	51.85	68.20	16.35	PK
11220	53.79	-2.60	H	51.19	73.98	22.79	PK
11220	40.98	-2.60	H	38.38	53.98	15.60	AV
16830	51.31	0.35	H	51.66	68.20	16.54	PK

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

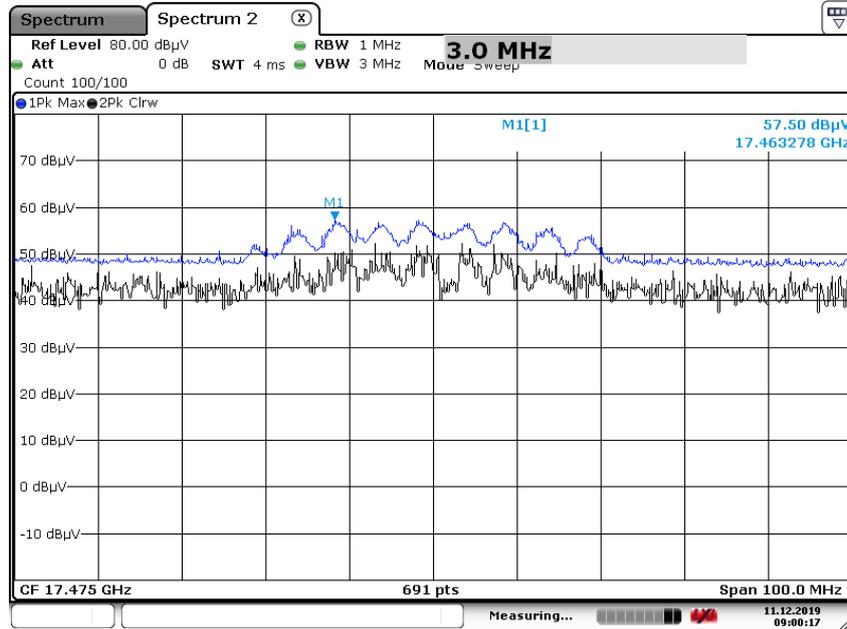
Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	54.51	-2.53	V	51.98	73.98	22.00	PK
11380	42.44	-2.53	V	39.91	53.98	14.07	AV
17070	50.88	1.26	V	52.14	68.20	16.06	PK
11380	53.75	-2.53	H	51.22	73.98	22.76	PK
11380	42.31	-2.53	H	39.78	53.98	14.20	AV
17070	49.47	1.26	H	50.73	68.20	17.47	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	55.39	-1.77	V	53.62	73.98	20.36	PK
11550	42.42	-1.77	V	40.65	53.98	13.33	AV
17325	51.43	3.11	V	54.54	68.20	13.67	PK
11550	56.28	-1.77	H	54.51	73.98	19.47	PK
11550	42.93	-1.77	H	41.16	53.98	12.82	AV
17325	50.70	3.11	H	53.81	68.20	14.40	PK

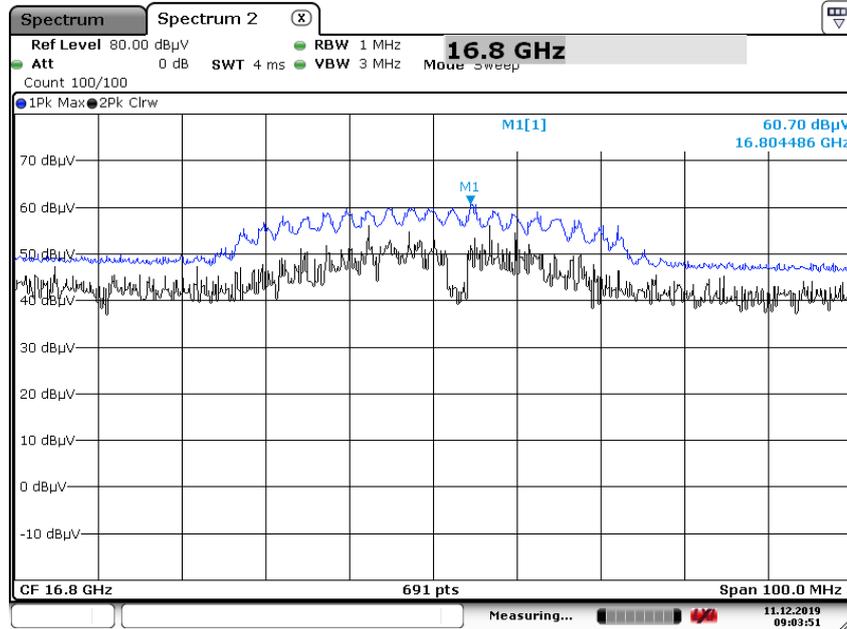
☐ Test Plots

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



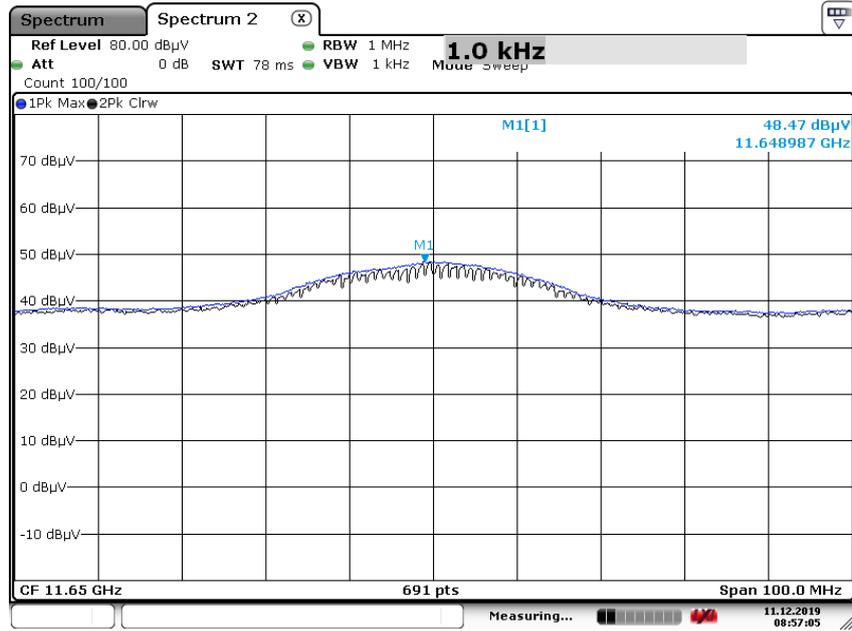
Date: 11.DEC.2019 09:00:17

Peak Reading (802.11 n(HT20), Ch.120 3rd Harmonic, Y-V)



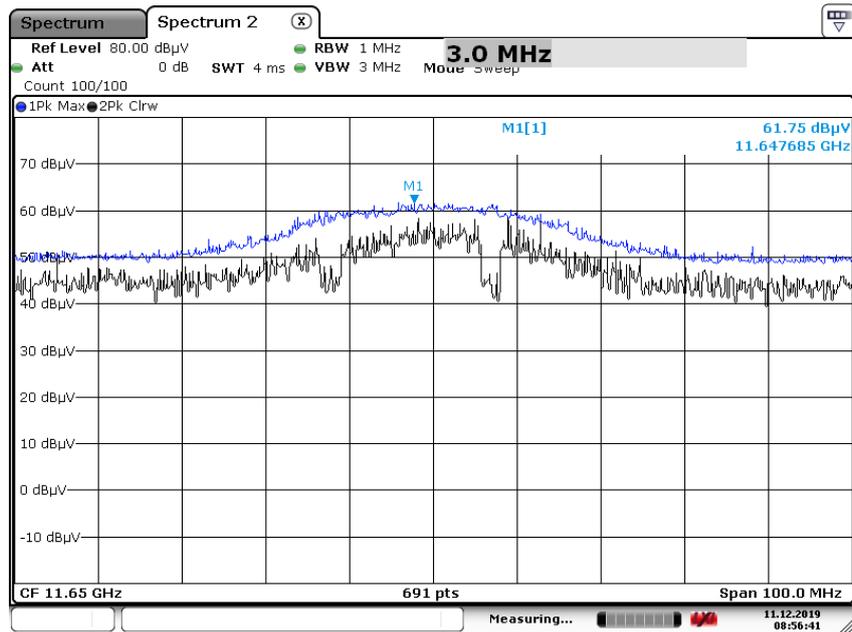
Date: 11.DEC.2019 09:03:51

Average Reading (802.11 ac(VHT20), Ch.165 2nd Harmonic, Y-H)



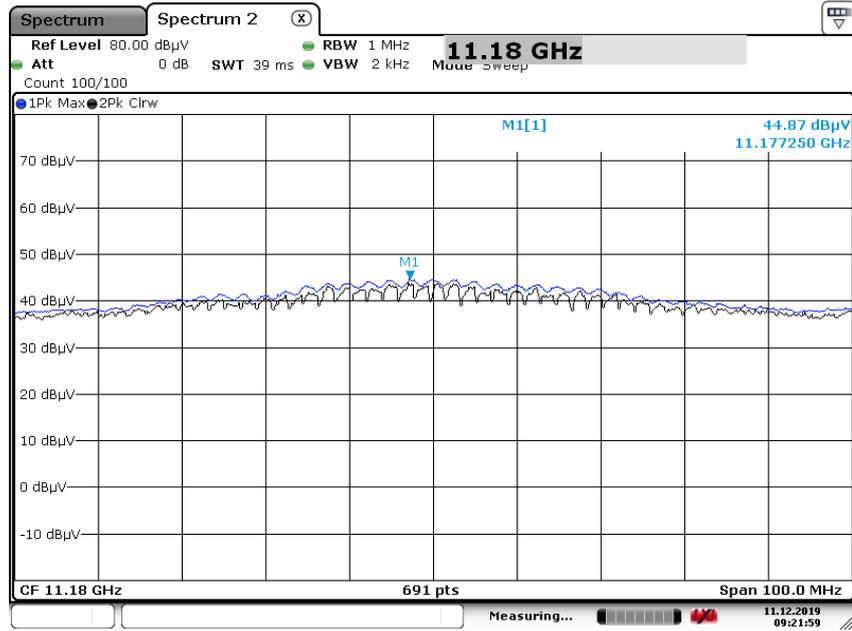
Date: 11.DEC.2019 08:57:06

Peak Reading (802.11 ac(VHT20), Ch.165 2nd Harmonic, Y-H)



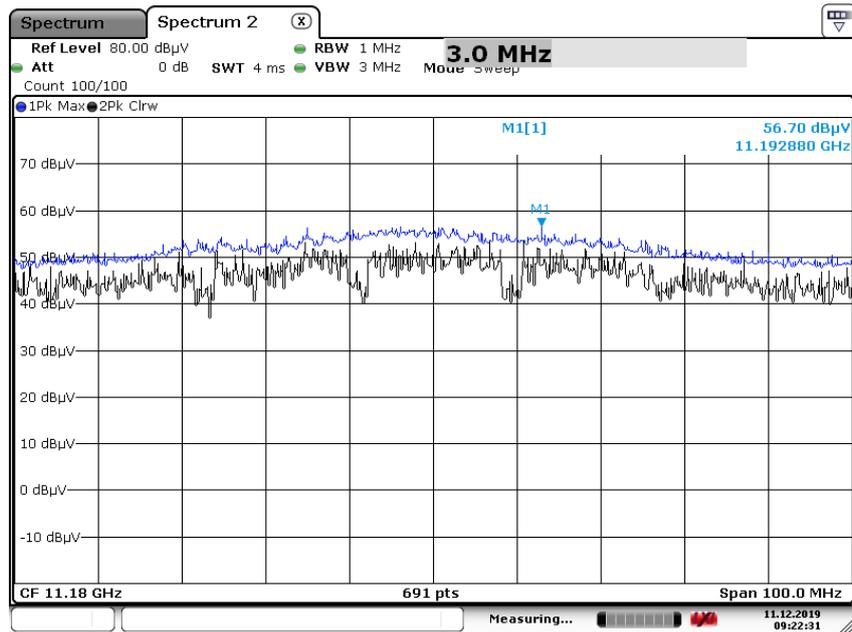
Date: 11.DEC.2019 08:56:42

Average Reading (802.11 n(HT40), Ch.118 2nd Harmonic, Y-V)



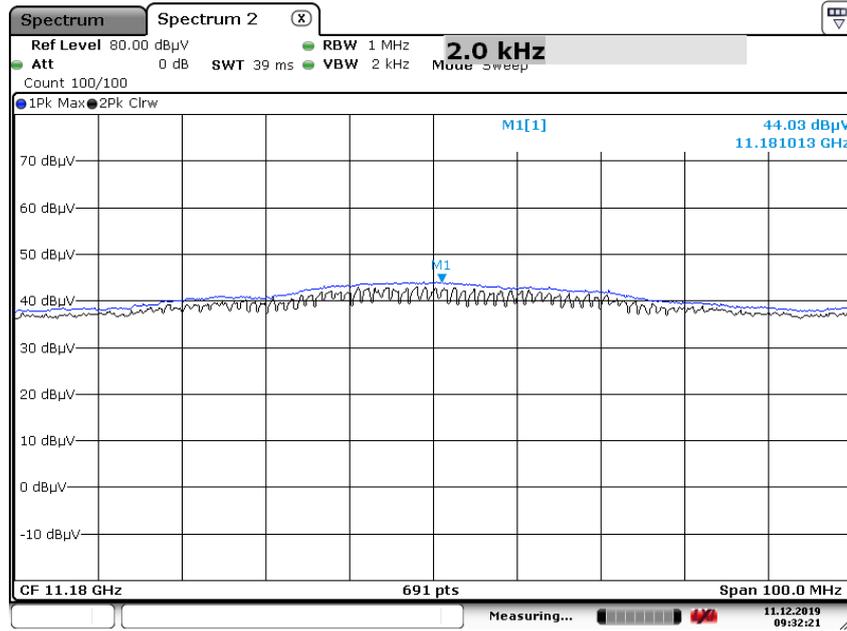
Date: 11.DEC.2019 09:21:58

Peak Reading (802.11 n(HT40), Ch.118 2nd Harmonic, Y-V)



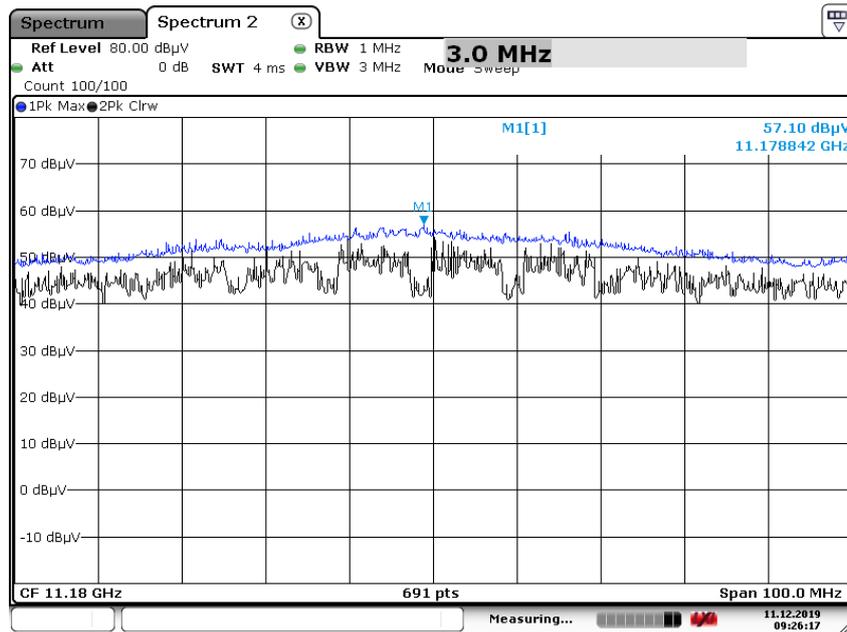
Date: 11.DEC.2019 09:22:31

Average Reading (802.11 ac(VHT40), Ch.118 2nd Harmonic, Y-V)



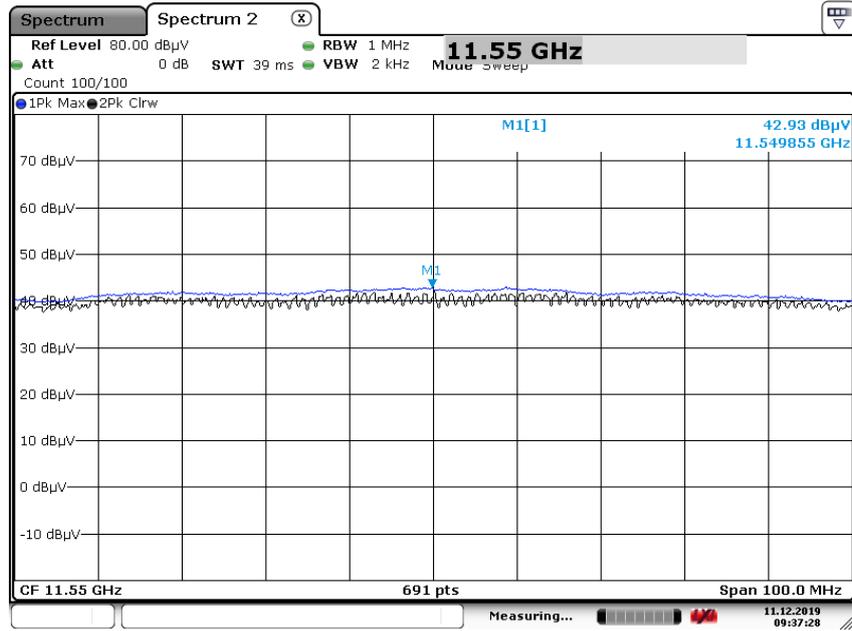
Date: 11.DEC.2019 09:32:21

Peak Reading (802.11 ac(VHT40), Ch.118 2nd Harmonic, Y-V)



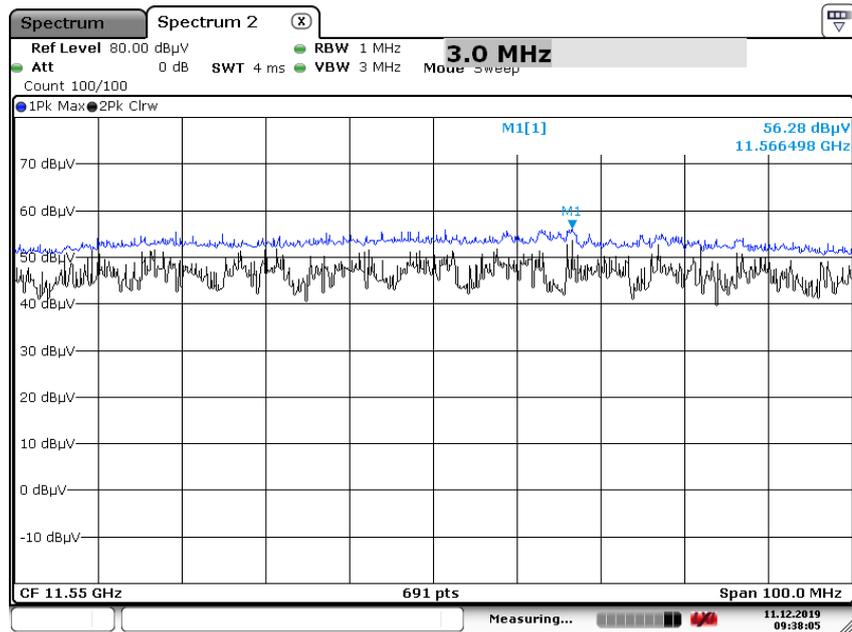
Date: 11.DEC.2019 09:26:17

Average Reading (802.11 ac(VHT80), Ch.155 2nd Harmonic, Y-H)



Date: 11.DEC.2019 09:37:28

Peak Reading (802.11 ac(VHT80), Ch.155 2nd Harmonic, Y-H)



Date: 11.DEC.2019 09:38:04

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	58.39	3.37	H	61.76	73.98	12.22	PK
5150	43.95	3.37	H	47.32	53.98	6.66	AV
5150	57.39	3.37	V	60.76	73.98	13.22	PK
5150	43.47	3.37	V	46.84	53.98	7.14	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	59.14	3.99	H	63.13	73.98	10.85	PK
5350	41.54	3.99	H	45.53	53.98	8.45	AV
5350	60.95	3.99	V	64.94	73.98	9.04	PK
5350	41.96	3.99	V	45.95	53.98	8.03	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.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5460	51.83	5.03	H	56.86	73.98	17.12	PK
5460	39.69	5.03	H	44.72	53.98	9.26	AV
5470	59.26	5.34	H	64.6	68.20	3.60	PK
5460	51.87	5.03	V	56.9	73.98	17.08	PK
5460	39.80	5.03	V	44.83	53.98	9.15	AV
5470	59.70	5.34	V	65.04	68.20	3.16	PK

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5460	51.85	5.03	V	56.88	73.98	17.10	PK
5460	39.88	5.03	V	44.91	53.98	9.07	AV
5470	54.81	5.34	V	60.15	68.20	8.05	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	60.87	3.37	H	64.24	73.98	9.74	PK
5150	44.59	3.37	H	47.96	53.98	6.02	AV
5150	59.68	3.37	V	63.05	73.98	10.93	PK
5150	44.35	3.37	V	47.72	53.98	6.26	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	59.12	3.99	H	63.11	73.98	10.87	PK
5350	42.48	3.99	H	46.47	53.98	7.51	AV
5350	59.67	3.99	V	63.66	73.98	10.32	PK
5350	42.76	3.99	V	46.75	53.98	7.23	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.00	5.03	H	57.03	73.98	16.95	PK
5460	39.43	5.03	H	44.46	53.98	9.52	AV
5470	58.46	5.34	H	63.8	68.20	4.40	PK
5460	52.60	5.03	V	57.63	73.98	16.35	PK
5460	40.24	5.03	V	45.27	53.98	8.71	AV
5470	59.51	5.34	V	64.85	68.20	3.35	PK

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.96	5.03	V	57.99	73.98	15.99	PK
5460	40.10	5.03	V	45.13	53.98	8.85	AV
5470	55.34	5.34	V	60.68	68.20	7.52	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	58.06	3.37	H	61.43	73.98	12.55	PK
5150	44.15	3.37	H	47.52	53.98	6.46	AV
5150	57.68	3.37	V	61.05	73.98	12.93	PK
5150	43.87	3.37	V	47.24	53.98	6.74	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	58.38	3.99	H	62.37	73.98	11.61	PK
5350	42.01	3.99	H	46.00	53.98	7.98	AV
5350	58.78	3.99	V	62.77	73.98	11.21	PK
5350	42.27	3.99	V	46.26	53.98	7.72	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	51.58	5.03	H	56.61	73.98	17.37	PK
5460	39.41	5.03	H	44.44	53.98	9.54	AV
5470	57.06	5.34	H	62.40	68.20	5.80	PK
5460	52.52	5.03	V	57.55	73.98	16.43	PK
5460	39.67	5.03	V	44.70	53.98	9.28	AV
5470	58.39	5.34	V	63.73	68.20	4.47	PK

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.91	5.03	V	57.94	73.98	16.04	PK
5460	39.84	5.03	V	44.87	53.98	9.11	AV
5470	55.66	5.34	V	61	68.20	7.20	PK

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	61.86	3.37	H	65.23	73.98	8.75	PK
5150	47.72	3.37	H	51.09	53.98	2.89	AV
5150	58.77	3.37	V	62.14	73.98	11.84	PK
5150	46.77	3.37	V	50.14	53.98	3.84	AV

Band : UNII 1
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5230 MHz
 Channel No. 46 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	59.45	3.99	H	63.44	73.98	10.54	PK
5350	46.15	3.99	H	50.14	53.98	3.84	AV
5350	61.91	3.99	V	65.9	73.98	8.08	PK
5350	46.31	3.99	V	50.3	53.98	3.68	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	51.50	5.03	H	56.53	73.98	17.45	PK
5460	39.06	5.03	H	44.09	53.98	9.89	AV
5470	56.89	5.34	H	62.23	68.20	5.97	PK
5460	52.08	5.03	V	57.11	73.98	16.87	PK
5460	39.59	5.03	V	44.62	53.98	9.36	AV
5470	60.34	5.34	V	65.68	68.20	2.52	PK

Band : UNII 2C
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5500 MHz
 Channel No. 110 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	51.13	5.03	V	56.16	73.98	17.82	PK
5460	39.57	5.03	V	44.6	53.98	9.38	AV
5470	56.61	5.34	V	61.95	68.20	6.25	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	59.56	3.37	H	62.93	73.98	11.05	PK
5150	46.57	3.37	H	49.94	53.98	4.04	AV
5150	57.68	3.37	V	61.05	73.98	12.93	PK
5150	45.63	3.37	V	49	53.98	4.98	AV

Band : UNII 1
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5230 MHz
 Channel No. 46 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	61.09	3.99	H	65.08	73.98	8.90	PK
5350	45.83	3.99	H	49.82	53.98	4.16	AV
5350	61.59	3.99	V	65.58	73.98	8.40	PK
5350	45.58	3.99	V	49.57	53.98	4.41	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	51.55	5.03	H	56.58	73.98	17.40	PK
5460	38.77	5.03	H	43.8	53.98	10.18	AV
5470	55.97	5.34	H	61.31	68.20	6.89	PK
5460	51.19	5.03	V	56.22	73.98	17.76	PK
5460	39.48	5.03	V	44.51	53.98	9.47	AV
5470	58.27	5.34	V	63.61	68.20	4.59	PK

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5500 MHz
 Channel No. 110 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.10	5.03	V	57.13	73.98	16.85	PK
5460	39.99	5.03	V	45.02	53.98	8.96	AV
5470	56.06	5.34	V	61.4	68.20	6.80	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.20	3.37	H	63.57	73.98	10.41	PK
5150	48.29	3.37	H	51.66	53.98	2.32	AV
5150	61.25	3.37	V	64.62	73.98	9.36	PK
5150	47.81	3.37	V	51.18	53.98	2.80	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	62.04	3.99	H	66.03	73.98	7.95	PK
5350	47.25	3.99	H	51.24	53.98	2.74	AV
5350	62.44	3.99	V	66.43	73.98	7.55	PK
5350	46.85	3.99	V	50.84	53.98	3.14	AV

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

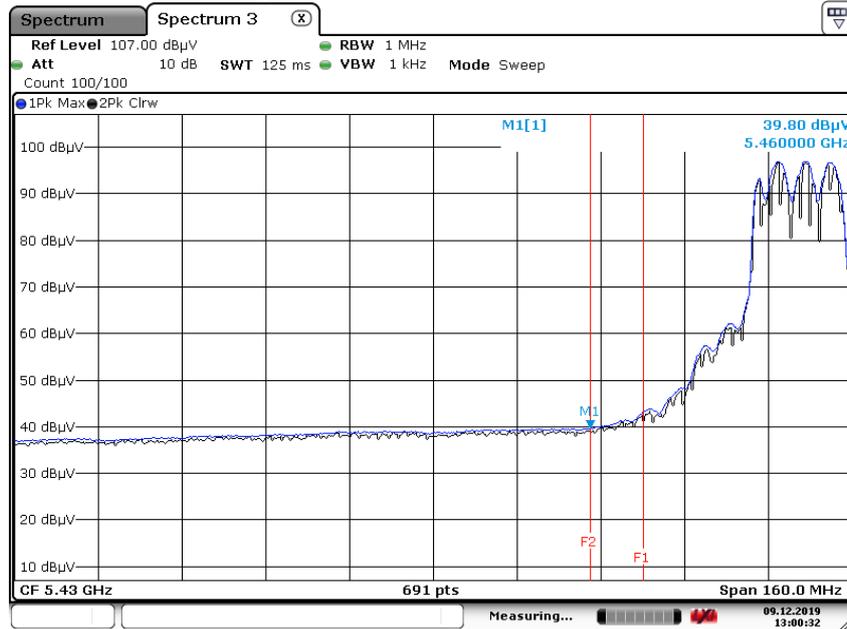
Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	55.98	5.03	H	61.01	73.98	12.97	PK
5460	40.37	5.03	H	45.4	53.98	8.58	AV
5470	55.48	5.34	H	60.82	68.20	7.38	PK
5460	58.34	5.03	V	63.37	73.98	10.61	PK
5460	42.13	5.03	V	47.16	53.98	6.82	AV
5470	58.12	5.34	V	63.46	68.20	4.74	PK

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	50.59	5.03	V	55.62	73.98	18.36	PK
5460	38.50	5.03	V	43.53	53.98	10.45	AV
5470	53.38	5.34	V	58.72	68.20	9.48	PK

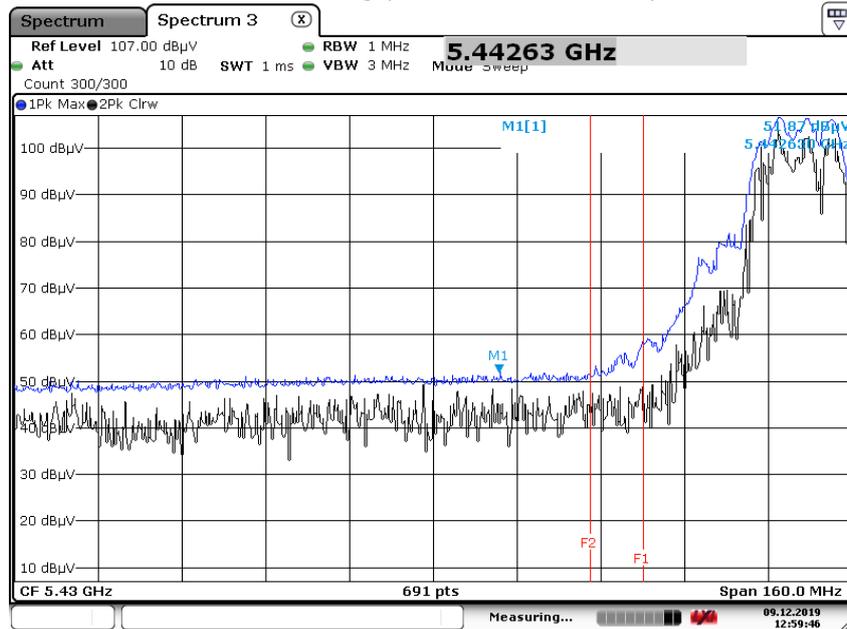
Test Plots(UNII 1, 2A, 2C)

Average Reading (802.11a, Ch.100, Y-V)



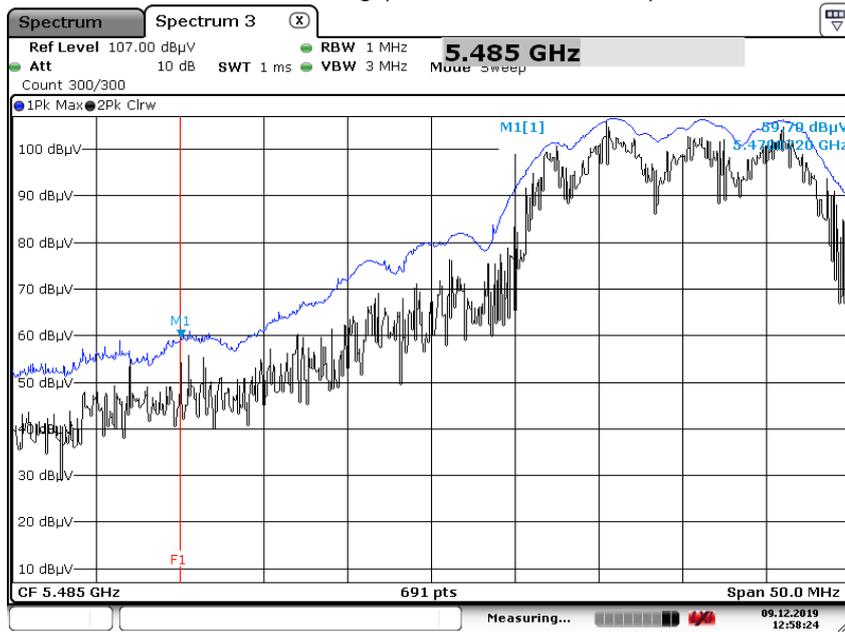
Date: 9.DEC.2019 13:00:32

Peak Reading (802.11a, Ch.100, Y-V)



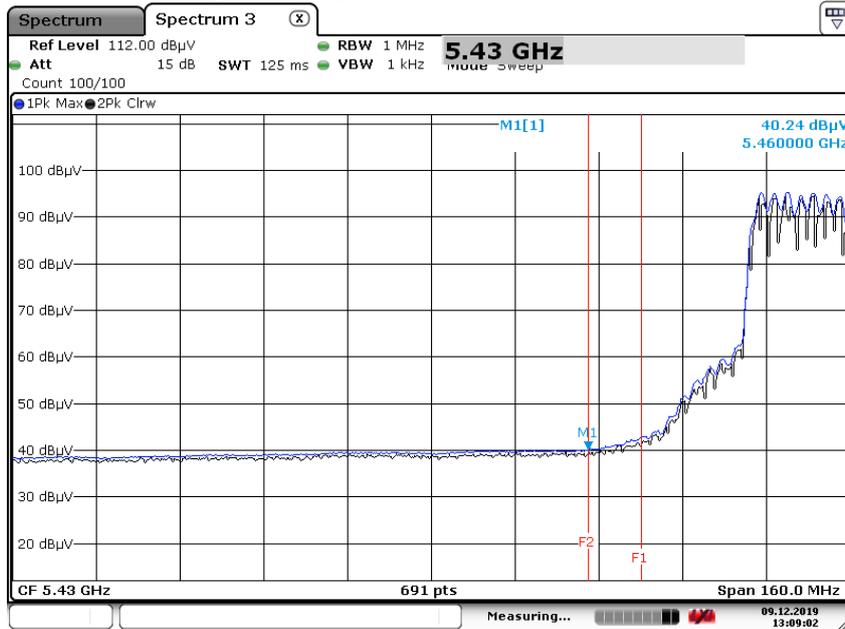
Date: 9.DEC.2019 12:59:46

Peak Reading (802.11a, Ch.100, Y-V)



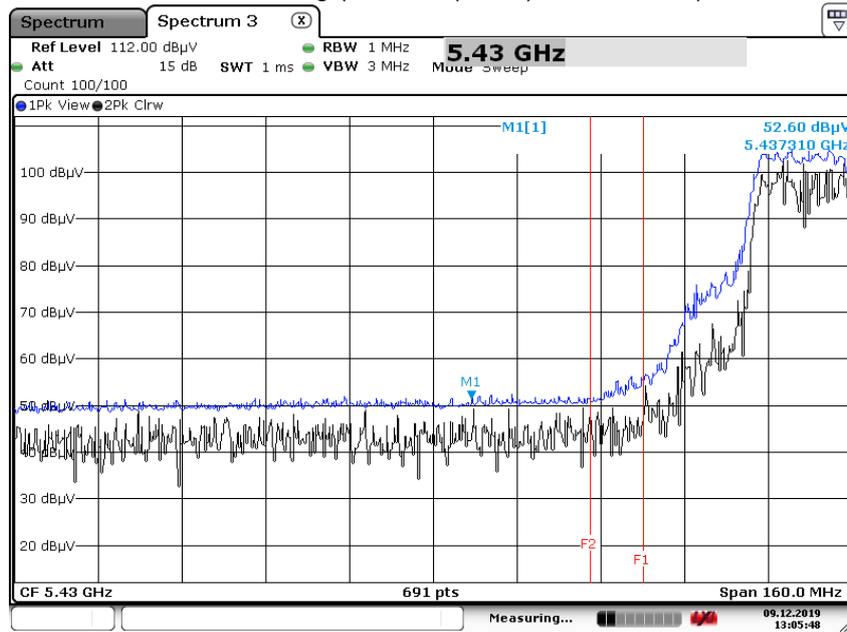
Date: 9.DEC.2019 12:58:24

Average Reading (802.11 n(HT20), Ch.100, Y-V)



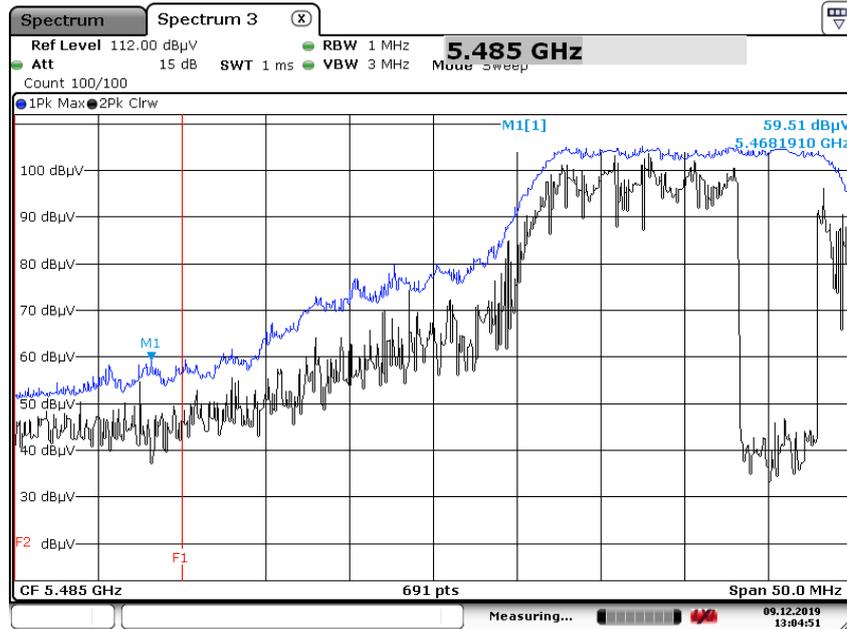
Date: 9.DEC.2019 13:09:02

Peak Reading (802.11 n(HT20), Ch.100, Y-V)



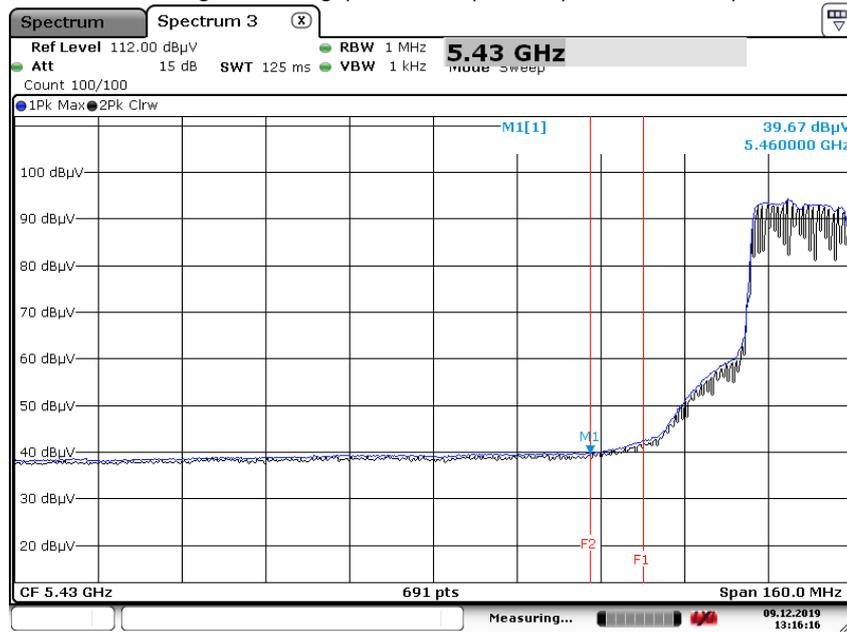
Date: 9.DEC.2019 13:05:48

Peak Reading (802.11 n(HT20), Ch.100, Y-V)



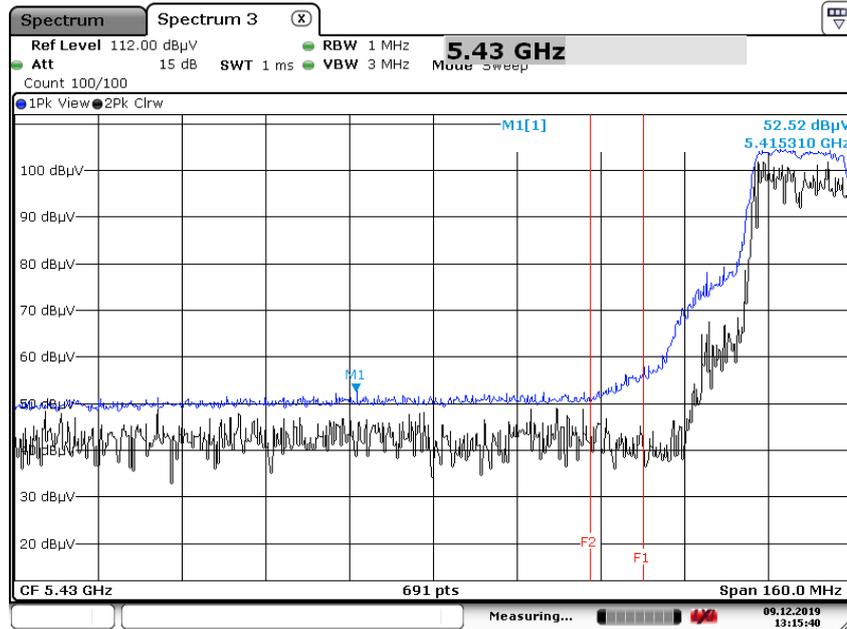
Date: 9.DEC.2019 13:04:51

Average Reading (802.11 ac(VHT20), Ch.100, Y-V)



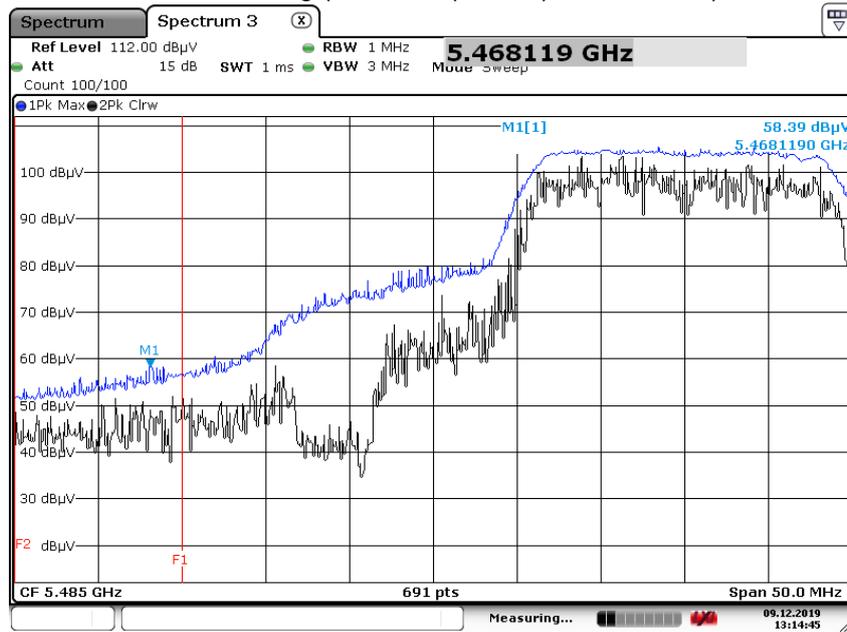
Date: 9.DEC.2019 13:16:17

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



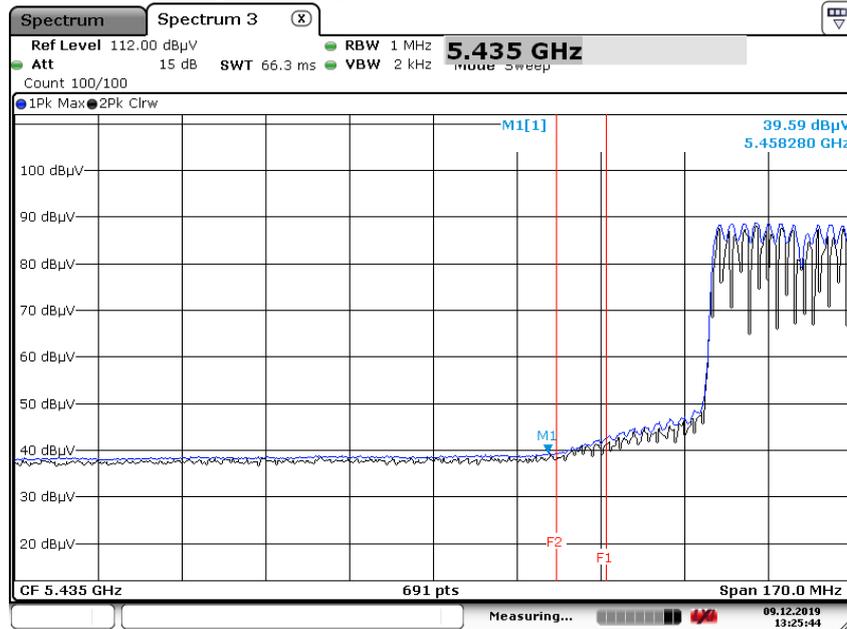
Date: 9.DEC.2019 13:15:41

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



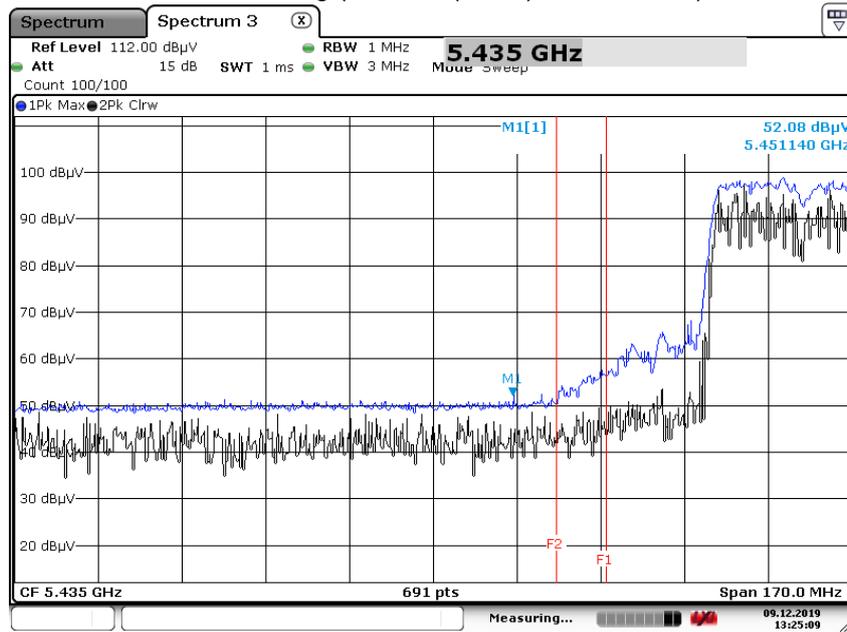
Date: 9.DEC.2019 13:14:46

Average Reading (802.11 n(HT40), Ch.102, Y-V)



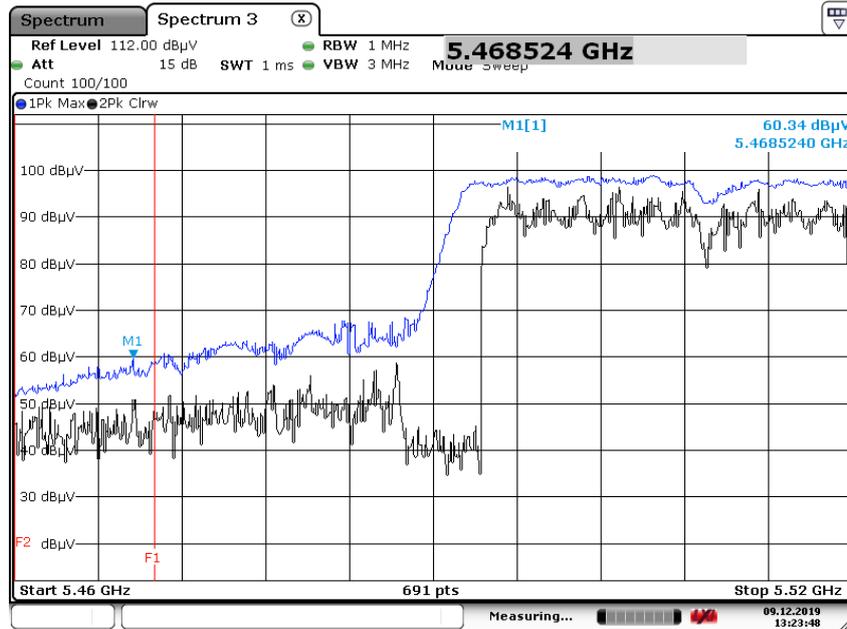
Date: 9.DEC.2019 13:25:44

Peak Reading (802.11 n(HT40), Ch.102, Y-V)



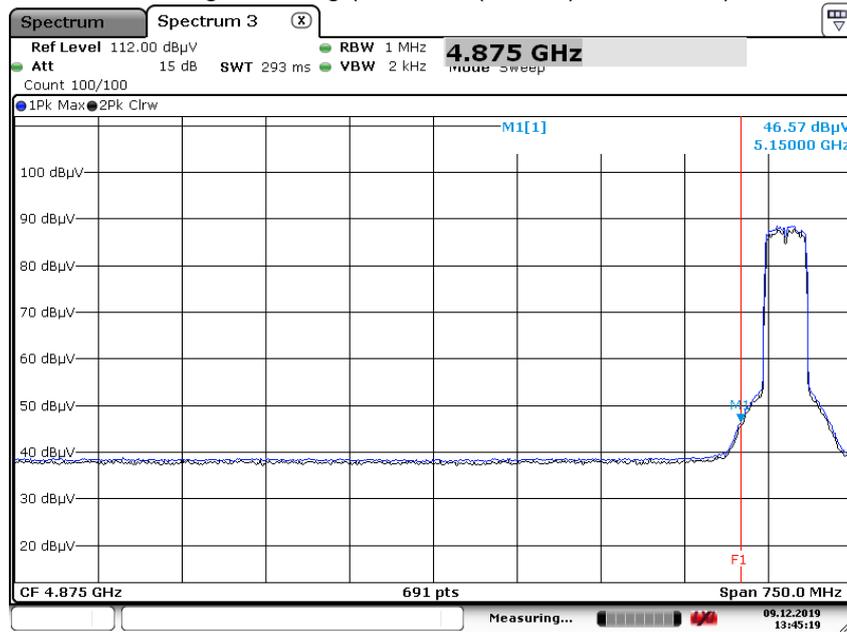
Date: 9.DEC.2019 13:25:10

Peak Reading (802.11 n(HT40), Ch.102, Y-V)



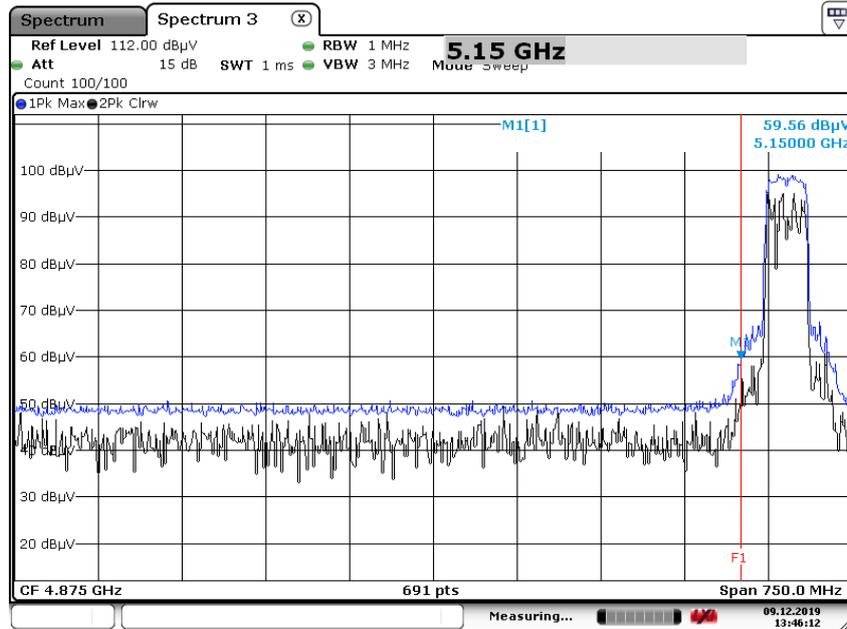
Date: 9.DEC.2019 13:23:49

Average Reading (802.11 ac(VHT40), Ch.38, Z-H)



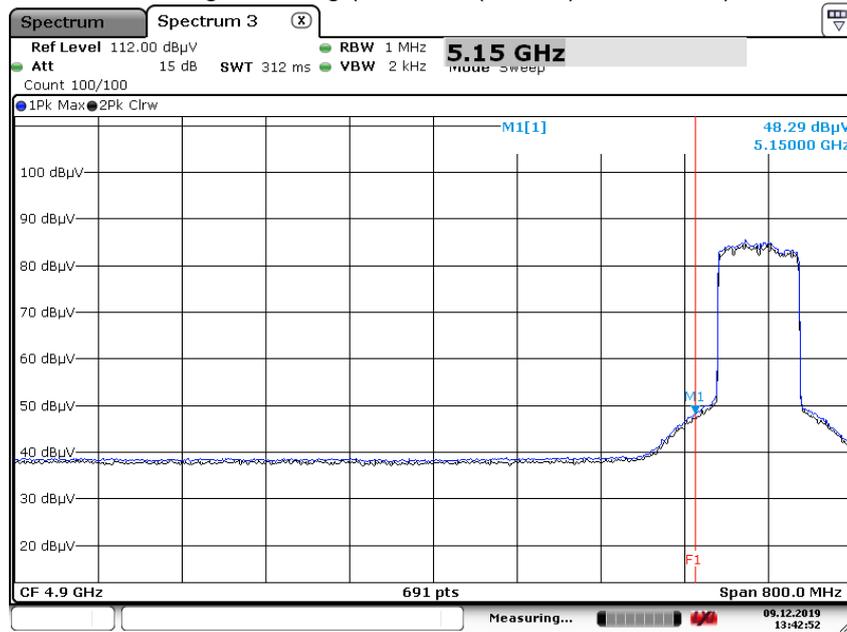
Date: 9.DEC.2019 13:45:19

Peak Reading (802.11 ac(VHT40), Ch.38, Z-H)

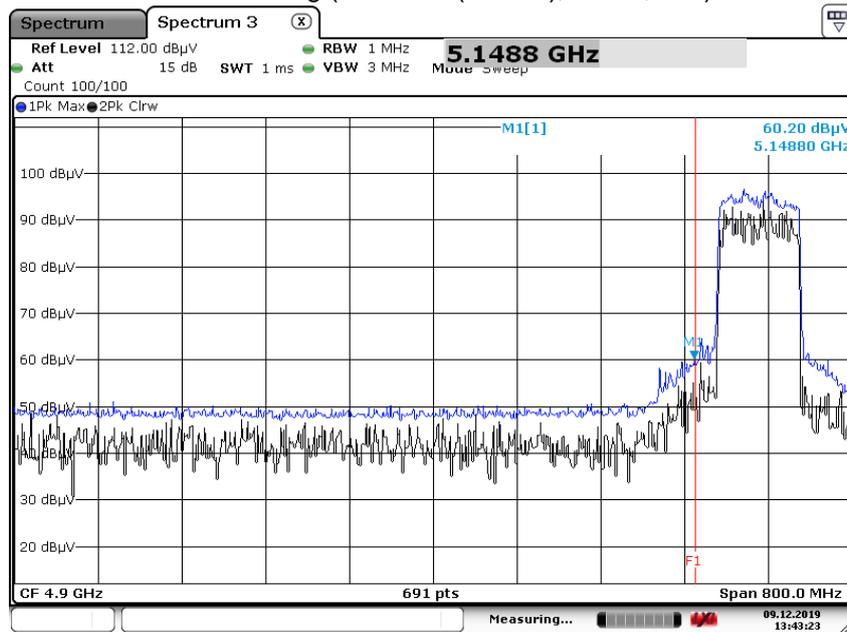


Date: 9.DEC.2019 13:46:12

Average Reading (802.11 ac(VHT80), Ch.42, Z-H)



Peak Reading (802.11 ac(VHT80), Ch.42, Z-H)

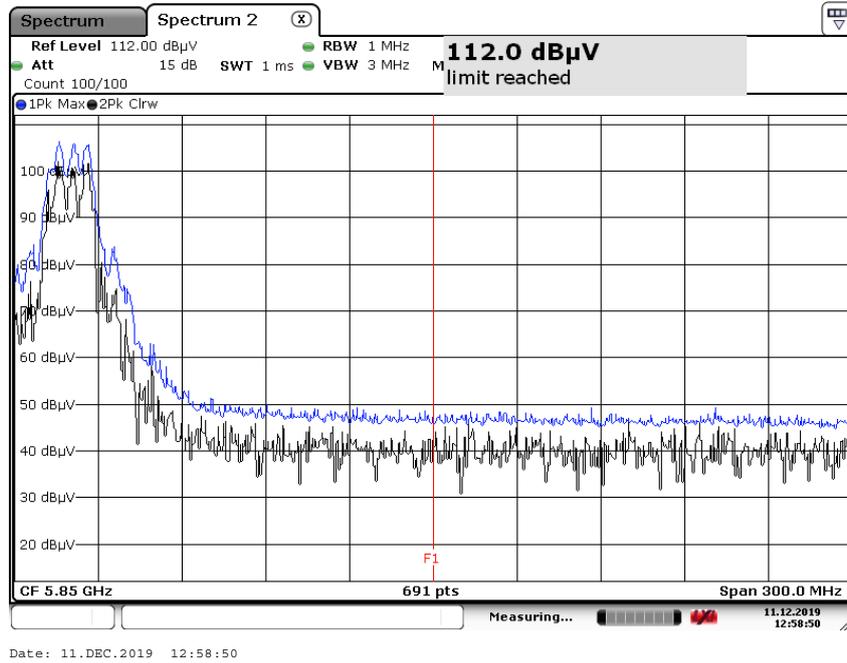


Note:

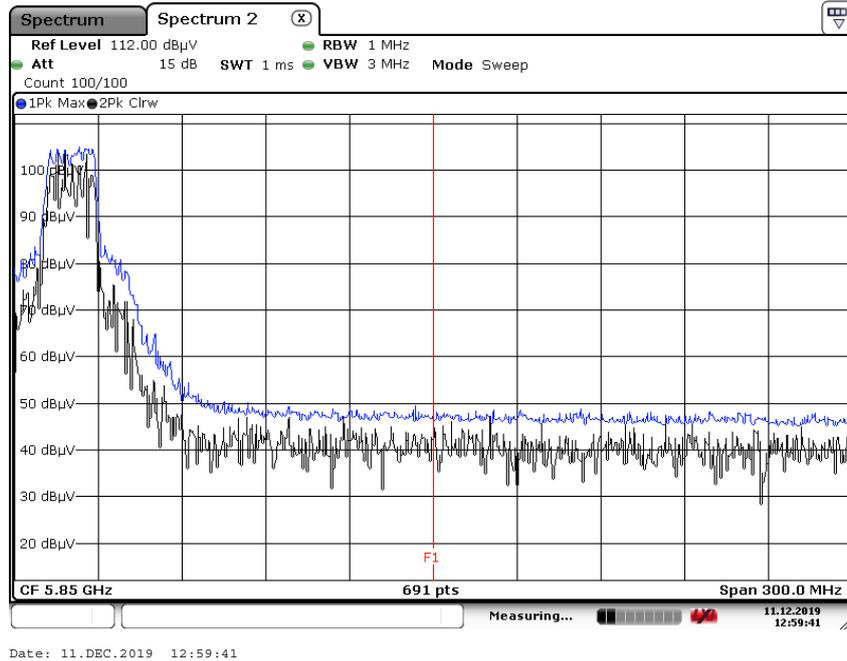
Only the worst case plots for Radiated Restricted Band Edge.

☑ Test Plots(Staraddle Channel)

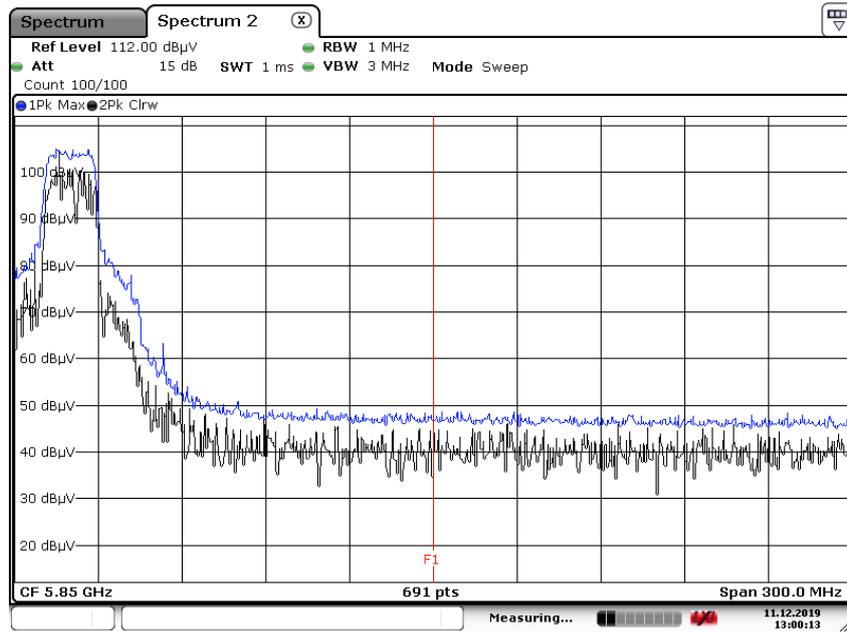
Peak Reading (802.11a, Ch.144, Y-V)



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

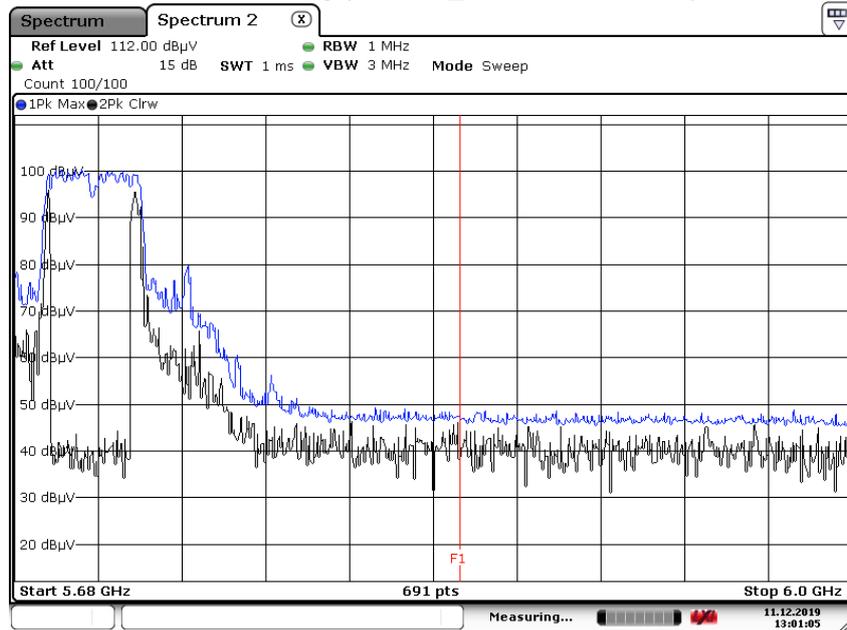


Peak Reading (802.11ac_VHT20, Ch.144, Y-V)



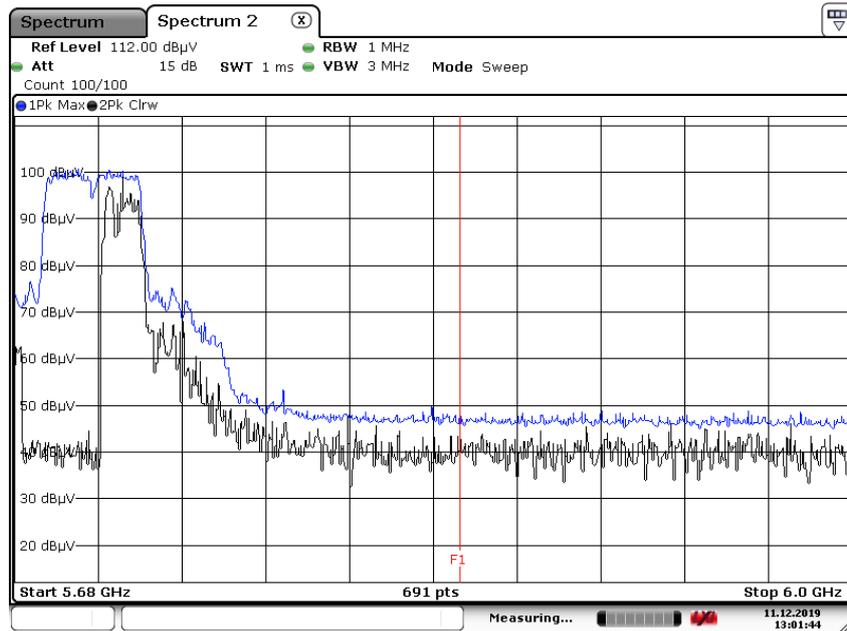
Date: 11. DEC. 2019 13:00:13

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



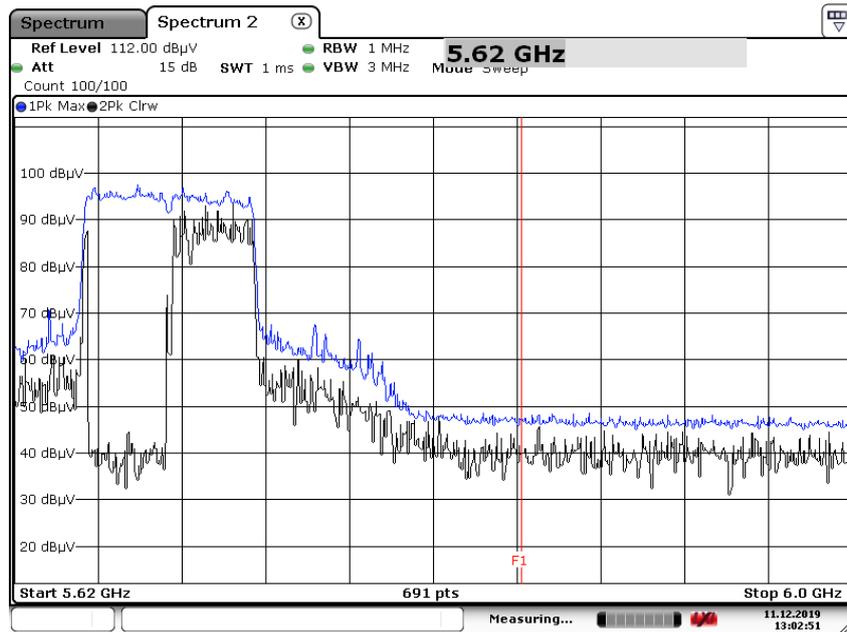
Date: 11. DEC. 2019 13:01:05

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



Date: 11.DEC.2019 13:01:44

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



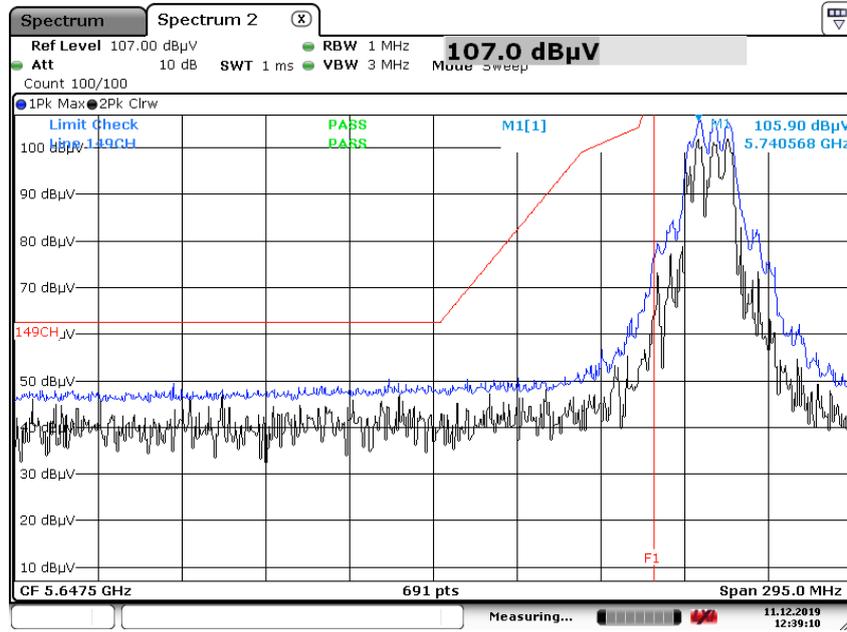
Date: 11.DEC.2019 13:02:51

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)

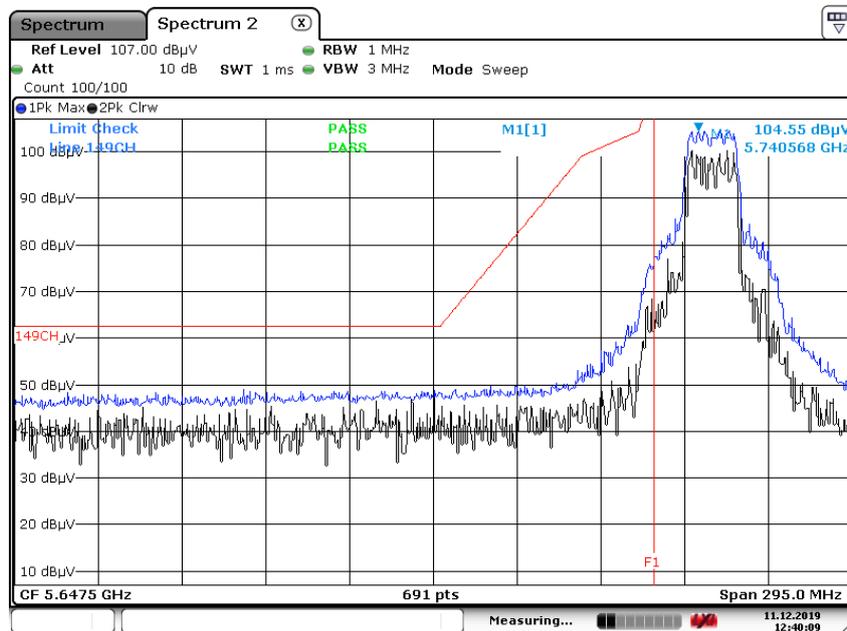
▣ Test Plots(UNII 3)

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



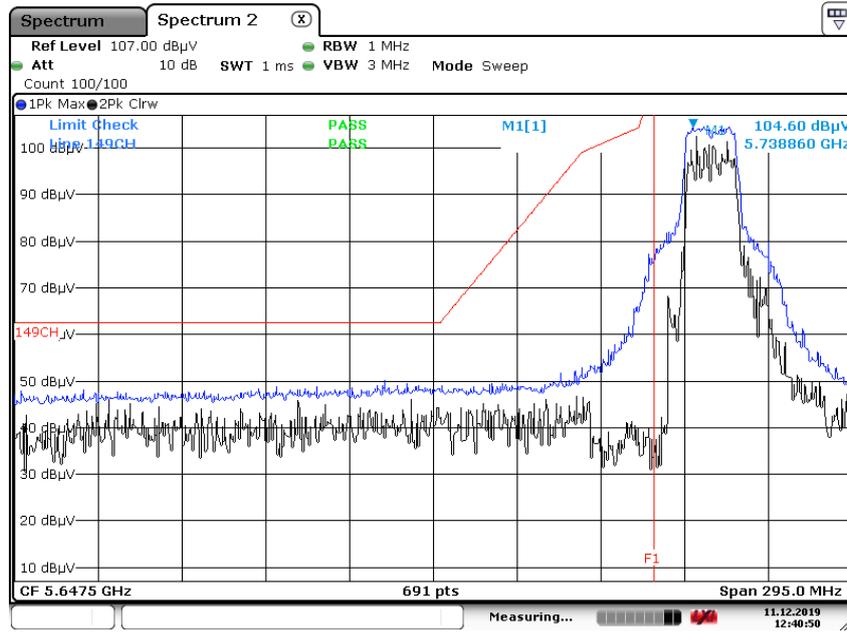
Date: 11.DEC.2019 12:39:10

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



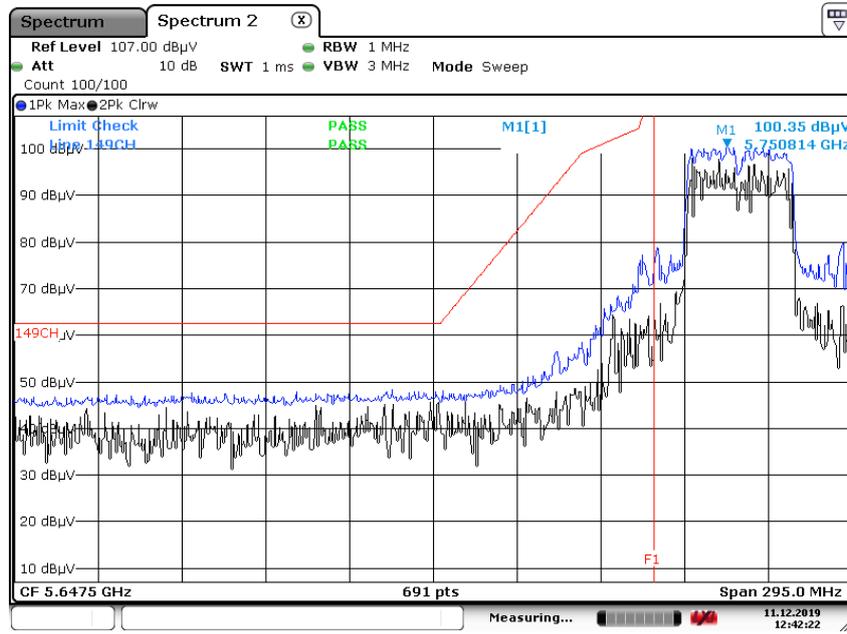
Date: 11.DEC.2019 12:40:09

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



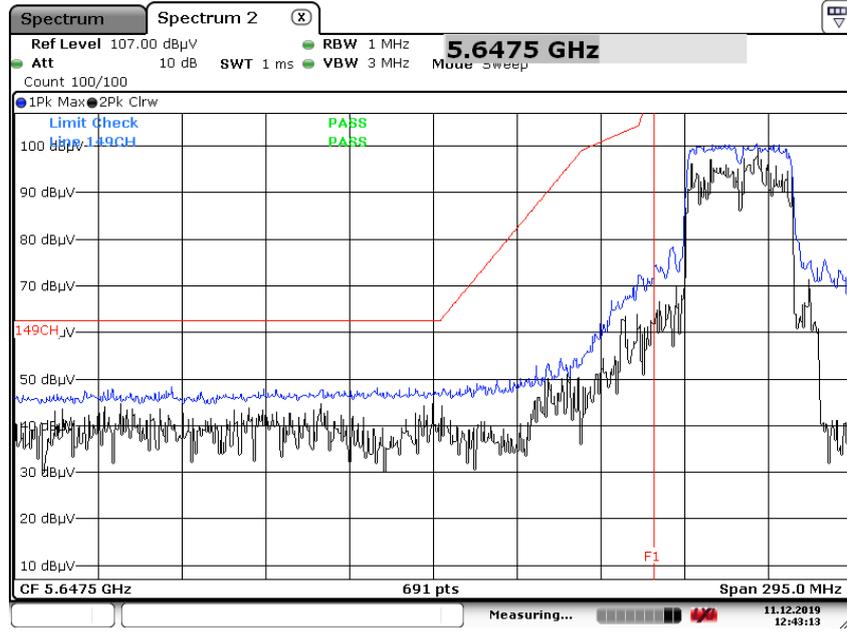
Date: 11.DEC.2019 12:40:49

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



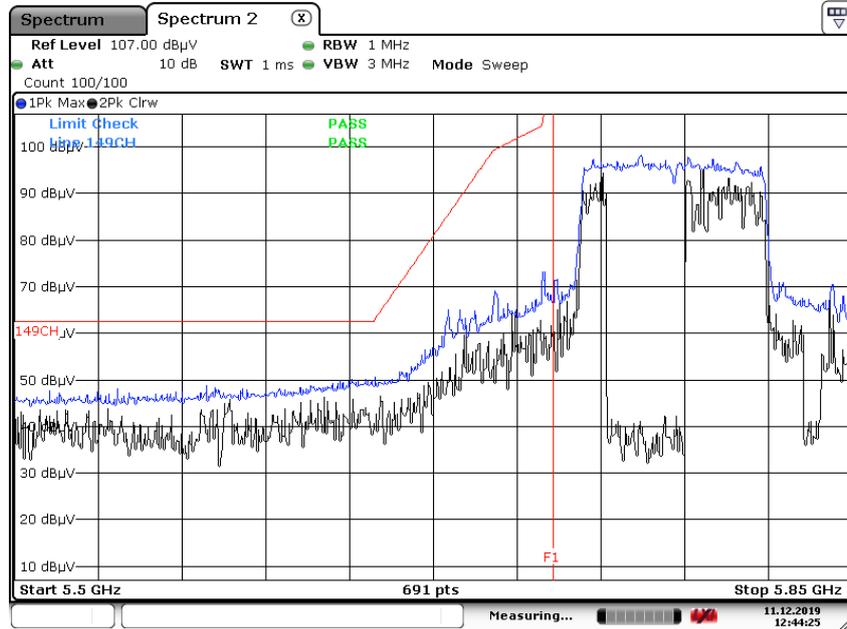
Date: 11.DEC.2019 12:42:22

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



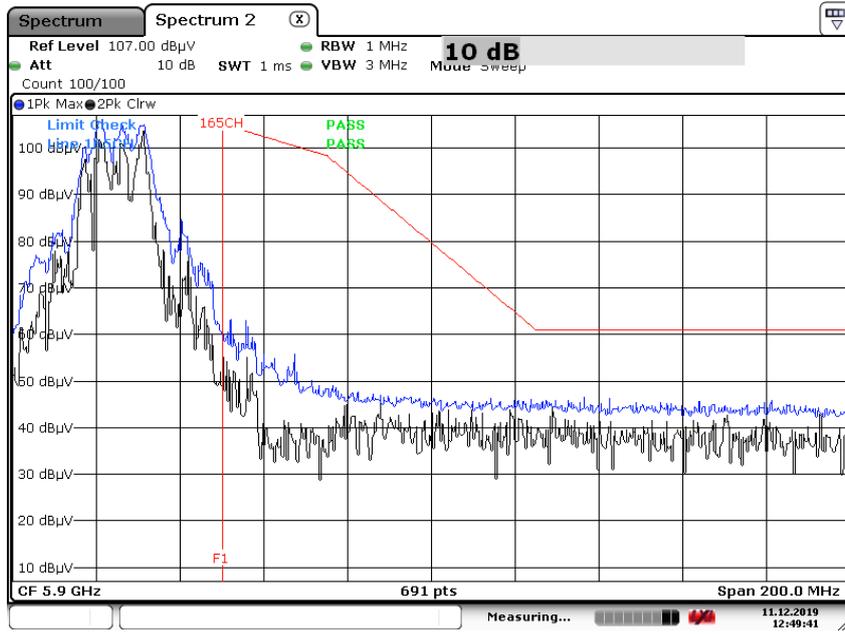
Date: 11.DEC.2019 12:43:13

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



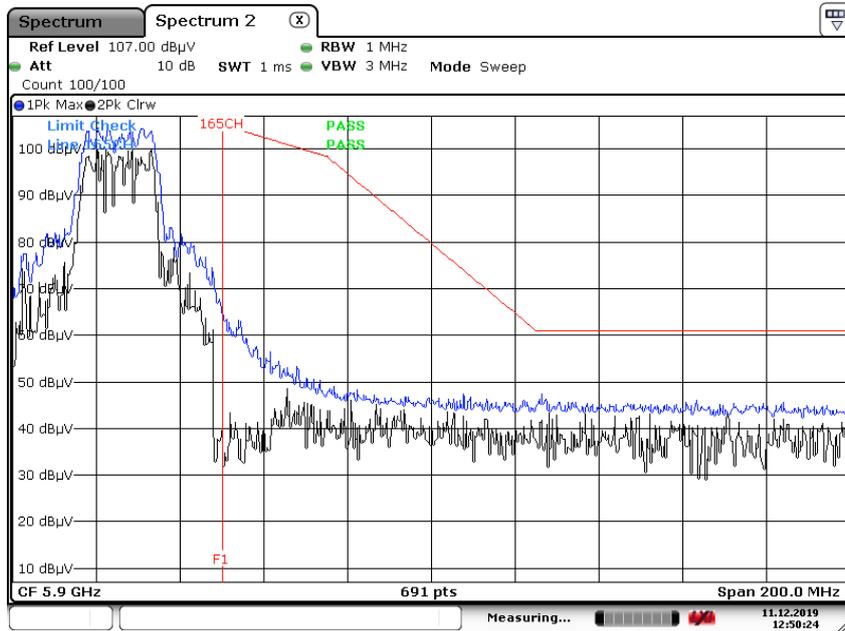
Date: 11.DEC.2019 12:44:25

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



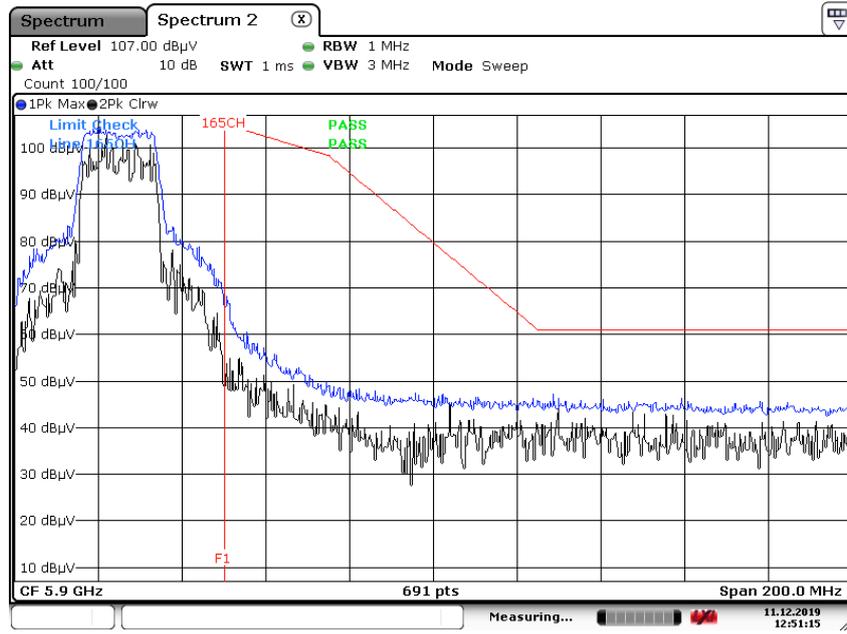
Date: 11.DEC.2019 12:49:41

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



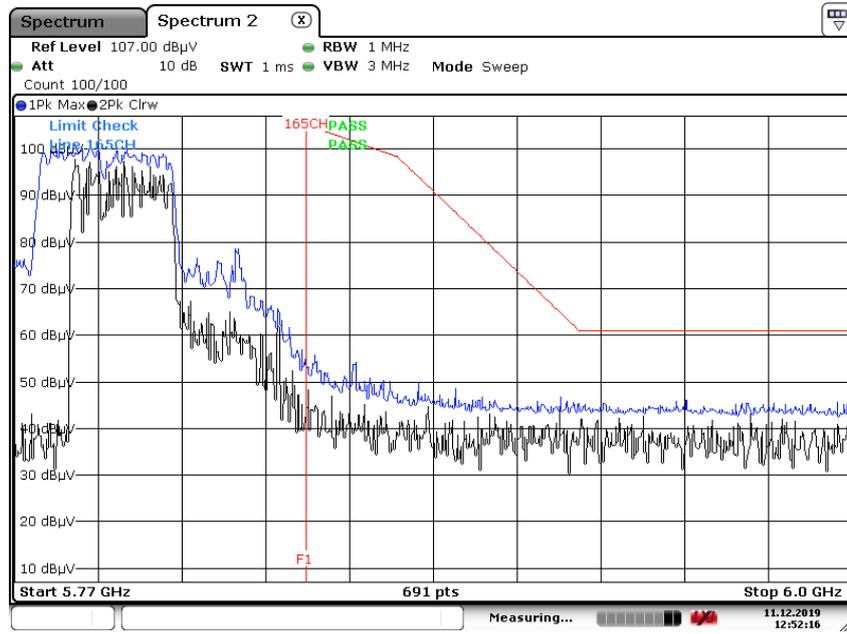
Date: 11.DEC.2019 12:50:24

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



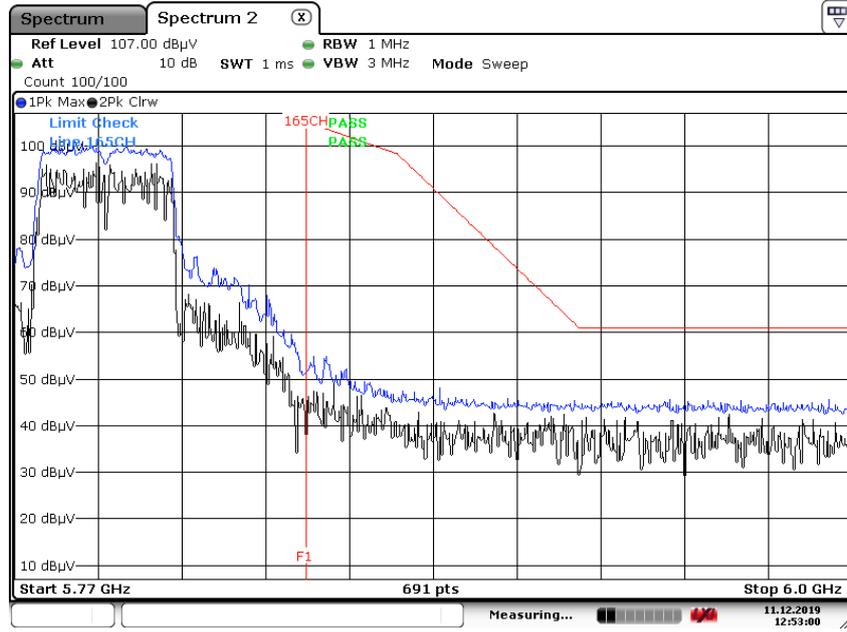
Date: 11.DEC.2019 12:51:15

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



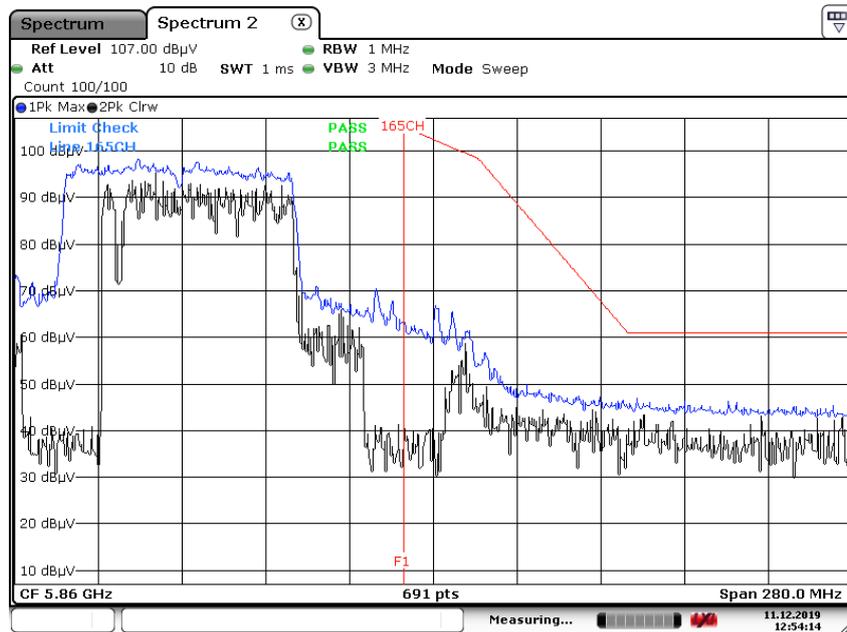
Date: 11.DEC.2019 12:52:16

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



Date: 11.DEC.2019 12:53:00

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



Date: 11.DEC.2019 12:54:14

10.10 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

5G WLAN L1 MODE

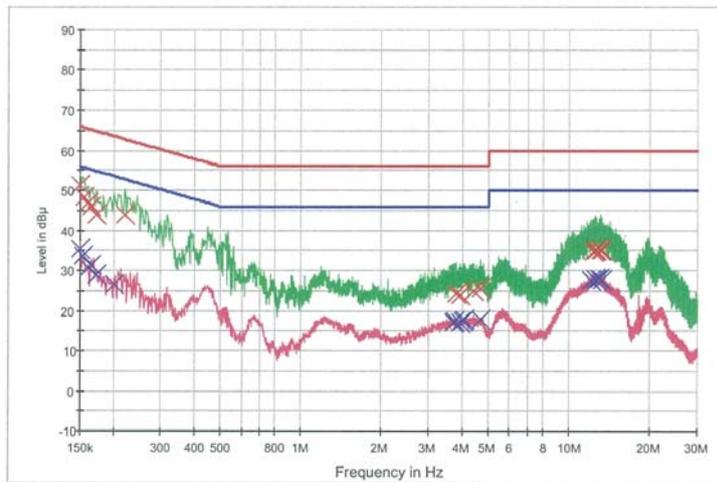
1 / 2

HCT TEST Report

Common Information

EUT: SM-G988B/DS
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: 5G WLAN L1 MODE

FCC CLASS B_Exten Cable



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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	51.5	9.000	Off	L1	9.8	14.5	66.0
0.156000	48.3	9.000	Off	L1	9.8	17.4	65.7
0.160000	46.8	9.000	Off	L1	9.8	18.6	65.5
0.164000	45.9	9.000	Off	L1	9.8	19.4	65.3
0.172000	44.0	9.000	Off	L1	9.8	20.9	64.9
0.220000	43.8	9.000	Off	L1	9.8	19.0	62.8
3.794000	24.3	9.000	Off	L1	9.9	31.7	56.0
3.918000	23.7	9.000	Off	L1	9.9	32.3	56.0
4.424000	24.8	9.000	Off	L1	10.0	31.2	56.0
4.648000	25.5	9.000	Off	L1	10.0	30.5	56.0
4.664000	25.8	9.000	Off	L1	10.0	30.2	56.0
4.694000	25.6	9.000	Off	L1	10.0	30.4	56.0
12.378000	34.9	9.000	Off	L1	10.4	25.1	60.0
12.506000	35.2	9.000	Off	L1	10.4	24.8	60.0
12.582000	35.2	9.000	Off	L1	10.4	24.8	60.0
12.610000	35.0	9.000	Off	L1	10.4	25.0	60.0
13.110000	35.1	9.000	Off	L1	10.4	24.9	60.0
13.194000	35.0	9.000	Off	L1	10.4	25.0	60.0

2019-12-04

오전 9:36:44

5G WLAN L1 MODE

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	35.5	9.000	Off	L1	9.8	20.5	56.0
0.154000	33.6	9.000	Off	L1	9.8	22.2	55.8
0.160000	30.8	9.000	Off	L1	9.8	24.7	55.5
0.164000	31.2	9.000	Off	L1	9.8	24.0	55.3
0.172000	29.0	9.000	Off	L1	9.8	25.9	54.9
0.200000	26.7	9.000	Off	L1	9.8	26.9	53.6
3.688000	17.1	9.000	Off	L1	9.9	28.9	46.0
3.730000	17.3	9.000	Off	L1	9.9	28.7	46.0
3.918000	17.2	9.000	Off	L1	9.9	28.8	46.0
4.028000	17.6	9.000	Off	L1	9.9	28.4	46.0
4.042000	17.8	9.000	Off	L1	9.9	28.2	46.0
4.664000	17.7	9.000	Off	L1	10.0	28.3	46.0
12.114000	27.7	9.000	Off	L1	10.4	22.3	50.0
12.506000	27.8	9.000	Off	L1	10.4	22.2	50.0
12.582000	27.8	9.000	Off	L1	10.4	22.2	50.0
12.610000	27.7	9.000	Off	L1	10.4	22.3	50.0
12.982000	27.8	9.000	Off	L1	10.4	22.2	50.0
13.278000	27.8	9.000	Off	L1	10.4	22.2	50.0

2019-12-04

오전 9:36:44

Conducted Emissions (Line 2)

5G WLAN N MODE

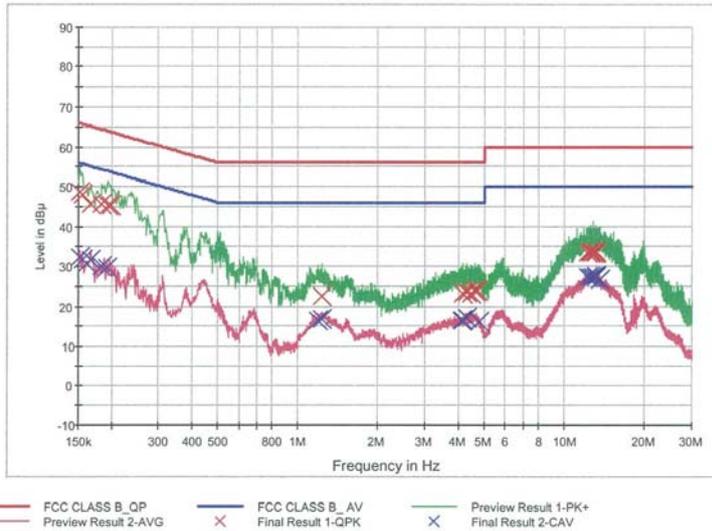
1 / 2

HCT TEST Report

Common Information

EUT: SM-G988B/DS
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: 5G WLAN N MODE

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	48.7	9.000	Off	N	9.8	17.2	65.9
0.156000	47.9	9.000	Off	N	9.8	17.7	65.7
0.166000	45.5	9.000	Off	N	9.8	19.7	65.2
0.184000	45.5	9.000	Off	N	9.8	18.8	64.3
0.194000	45.4	9.000	Off	N	9.8	18.5	63.9
0.198000	45.3	9.000	Off	N	9.8	18.4	63.7
1.230000	22.6	9.000	Off	N	9.9	33.4	56.0
4.176000	23.2	9.000	Off	N	10.0	32.8	56.0
4.322000	23.7	9.000	Off	N	10.0	32.3	56.0
4.484000	23.3	9.000	Off	N	10.0	32.7	56.0
4.622000	23.8	9.000	Off	N	10.0	32.2	56.0
4.716000	24.0	9.000	Off	N	10.0	32.0	56.0
12.132000	33.4	9.000	Off	N	10.4	26.6	60.0
12.466000	33.6	9.000	Off	N	10.5	26.4	60.0
12.488000	33.5	9.000	Off	N	10.5	26.5	60.0
12.738000	33.3	9.000	Off	N	10.5	26.7	60.0
13.032000	33.6	9.000	Off	N	10.5	26.4	60.0
13.102000	33.5	9.000	Off	N	10.5	26.5	60.0

2019-12-04

오전 9:45:37

5G WLAN N MODE

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	32.4	9.000	Off	N	9.8	23.5	55.9
0.156000	31.6	9.000	Off	N	9.8	24.1	55.7
0.160000	30.6	9.000	Off	N	9.8	24.9	55.5
0.166000	31.9	9.000	Off	N	9.8	23.3	55.2
0.184000	29.9	9.000	Off	N	9.8	24.4	54.3
0.192000	29.6	9.000	Off	N	9.8	24.3	53.9
1.192000	16.5	9.000	Off	N	9.9	29.5	46.0
1.230000	16.9	9.000	Off	N	9.9	29.1	46.0
4.130000	16.6	9.000	Off	N	10.0	29.4	46.0
4.176000	16.5	9.000	Off	N	10.0	29.5	46.0
4.322000	17.1	9.000	Off	N	10.0	28.9	46.0
4.776000	16.2	9.000	Off	N	10.1	29.8	46.0
12.132000	27.2	9.000	Off	N	10.4	22.8	50.0
12.466000	27.4	9.000	Off	N	10.5	22.6	50.0
12.738000	27.3	9.000	Off	N	10.5	22.7	50.0
13.032000	27.5	9.000	Off	N	10.5	22.5	50.0
13.102000	27.4	9.000	Off	N	10.5	22.6	50.0
13.532000	26.5	9.000	Off	N	10.5	23.5	50.0

2019-12-04

오전 9:45:37

11. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	09/11/2019	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/18/2019	Annual	100033
ESPAC	SU-642 /Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Agilent	N9020A / Signal Analyzer	05/24/2019	Annual	MY52090906
Agilent	N9030A / Signal Analyzer	01/13/2020	Annual	MY49431210
Rohde & Schwarz	OSP 120 / Power Measurement Set	07/24/2019	Annual	101231
Agilent	N1911A / Power Meter	04/10/2019	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/10/2019	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/11/2019	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/24/2019	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/18/2019	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/02/2019	Annual	07560
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	05/16/2019	Annual	100422

Note:

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

Radiated Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	04/26/2019	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	04/29/2019	Biennial	9120D-937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	11/29/2019	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	05/09/2019	Annual	100854
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/26/2019	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	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	02/15/2019	Annual	1
Api tech.	18B-03 / Attenuator (3 dB)	06/04/2019	Annual	1
Agilent	8493C-10 / Attenuator(10 dB)	07/15/2019	Annual	08285
CERNEX	CBLU1183540 / Power Amplifier	07/01/2019	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/01/2019	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	12/26/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/18/2019	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/26/2019	Annual	3000C000276

Note:

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

12. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-2001-FC017-P