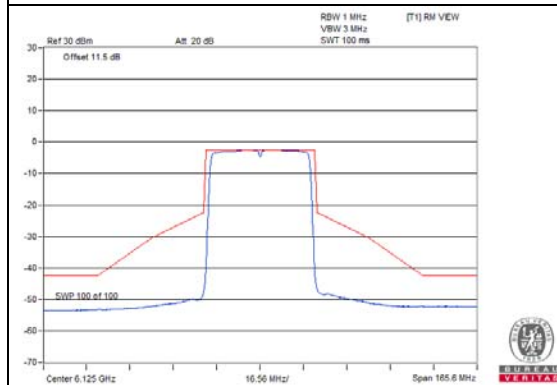


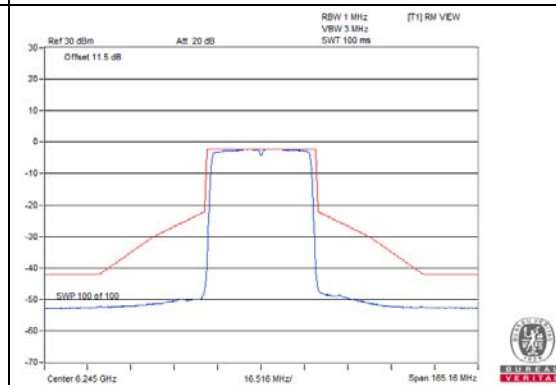
Spectrum Plot of Worst Value

Chain 3

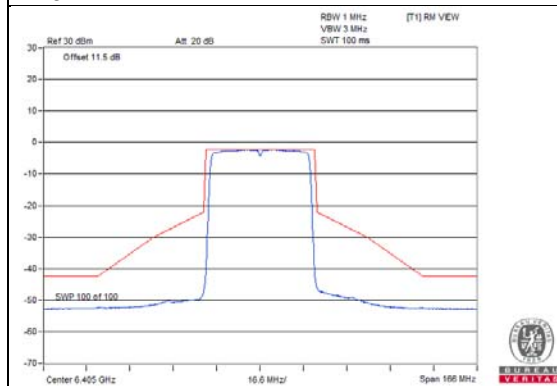
CH35



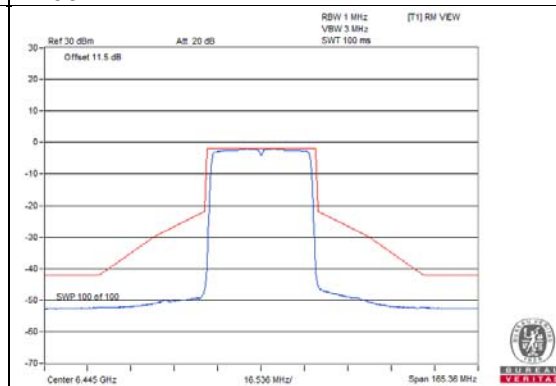
CH59



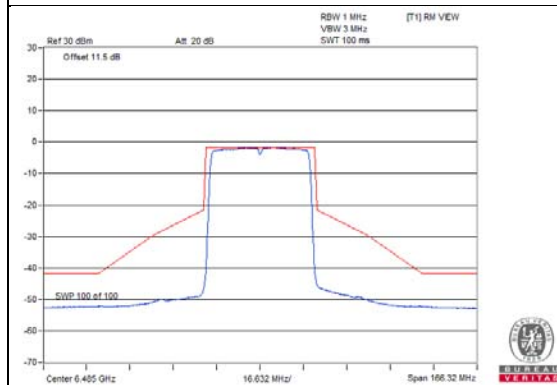
CH91



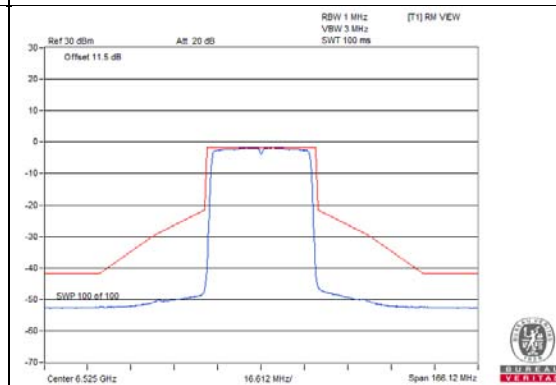
CH99



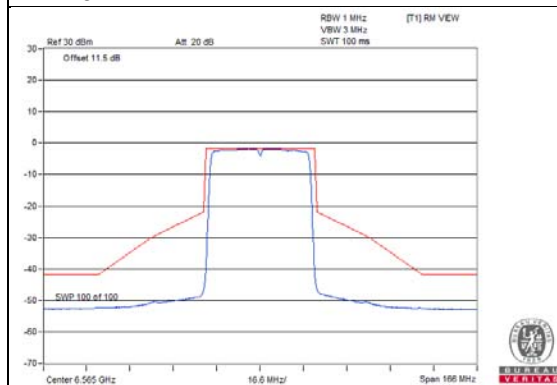
CH107



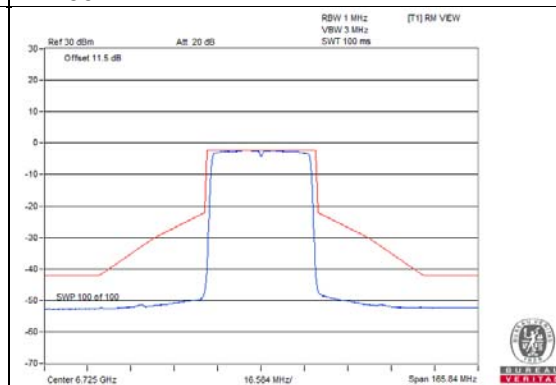
CH115



CH123



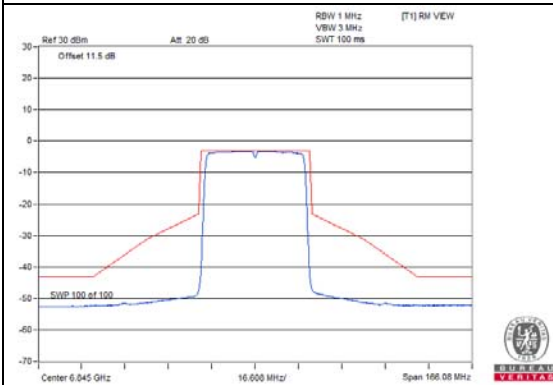
CH155



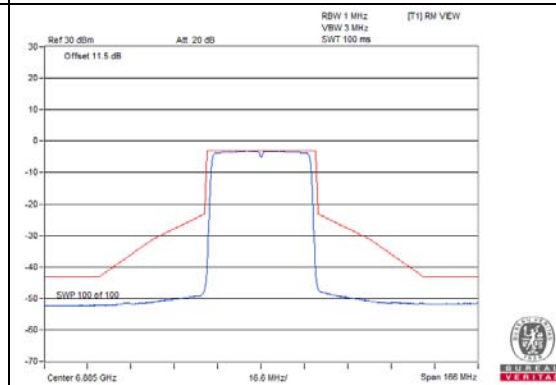
Spectrum Plot of Worst Value

Chain 3

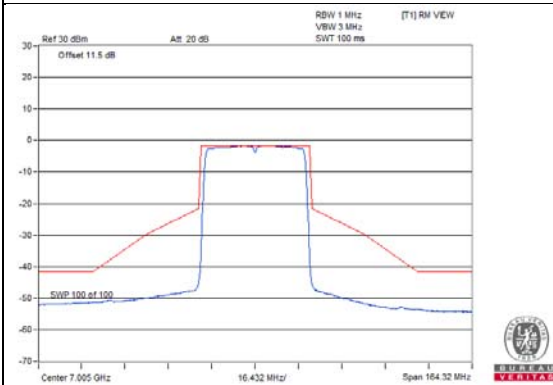
CH179



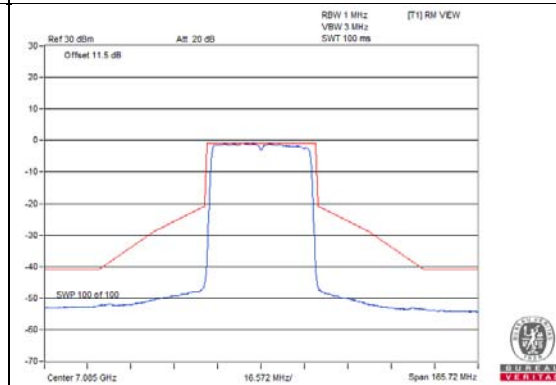
CH187



CH211



CH227

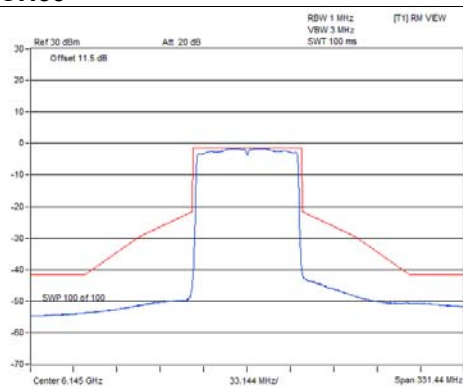


802.11ax (HE80)

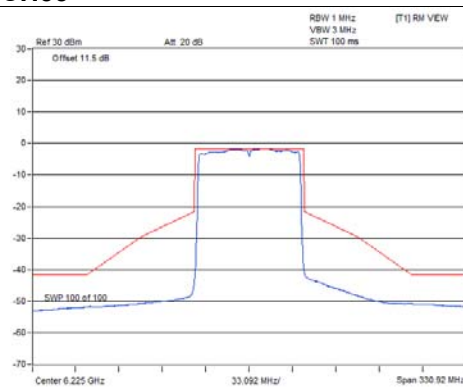
Spectrum Plot of Worst Value

Chain 0

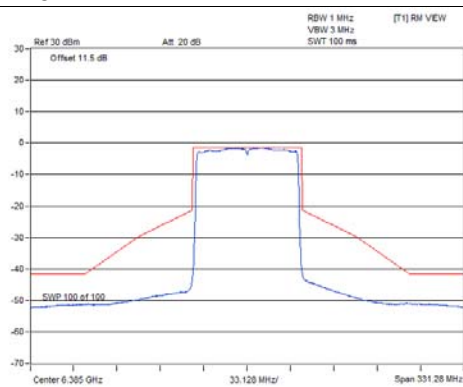
CH39



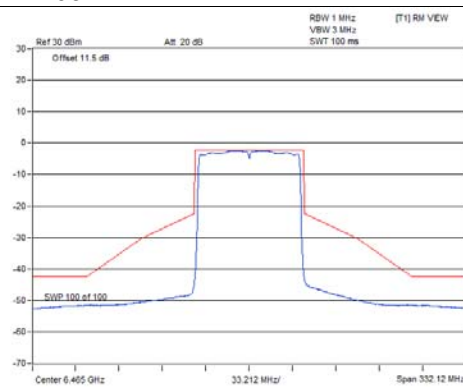
CH55



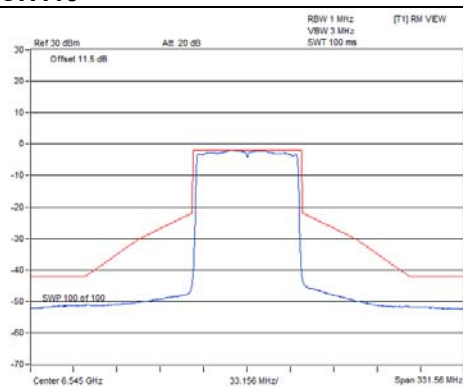
CH87



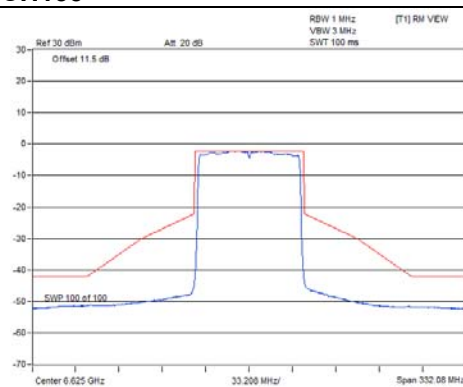
CH103



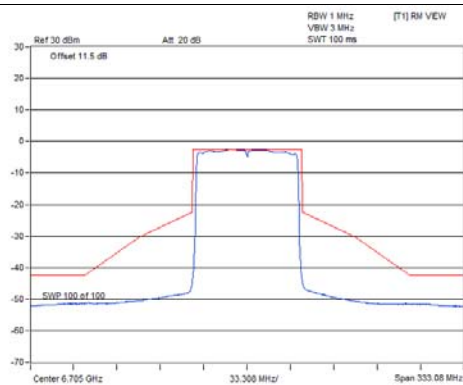
CH119



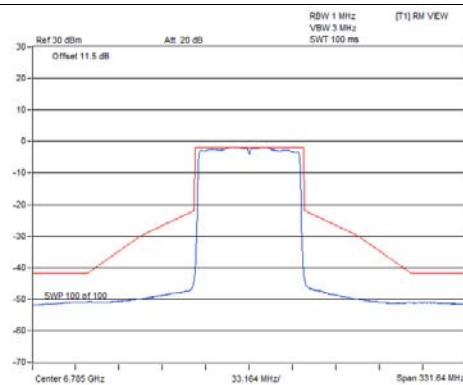
CH135



CH151



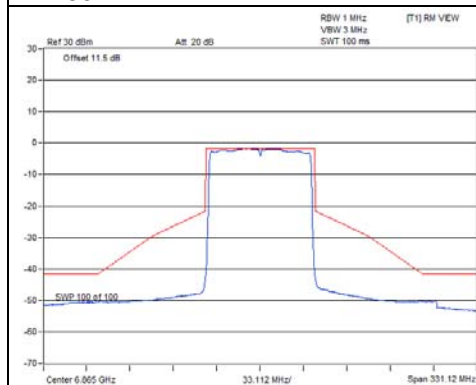
CH167



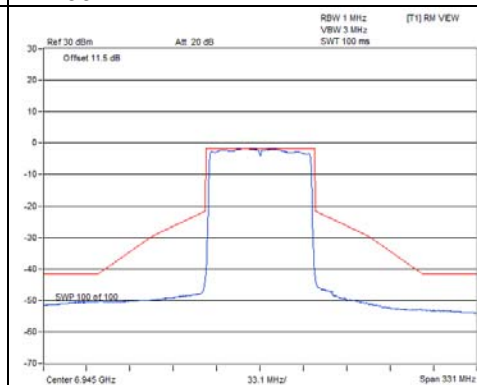
Spectrum Plot of Worst Value

Chain 0

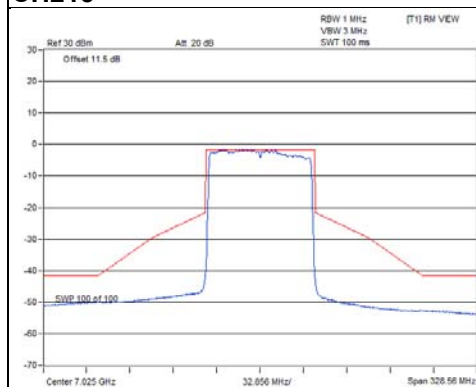
CH183



CH199

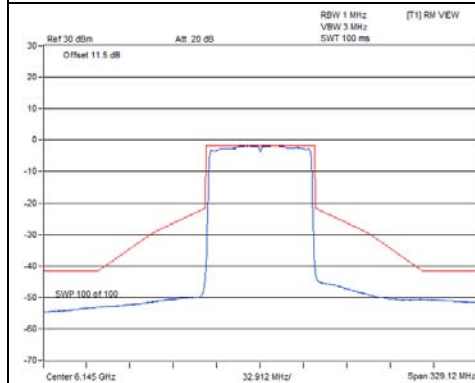


CH215

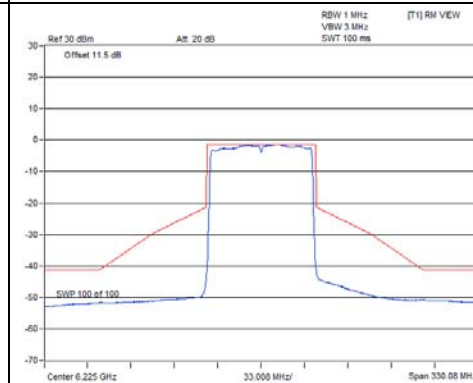


Spectrum Plot of Worst Value

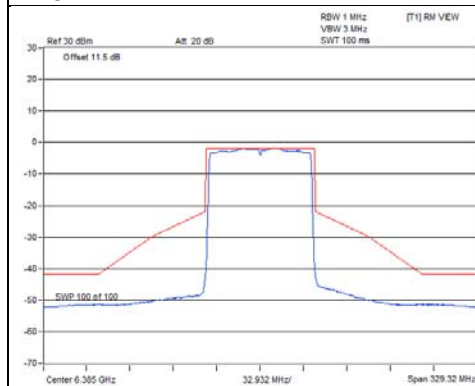
Chain 1 CH39



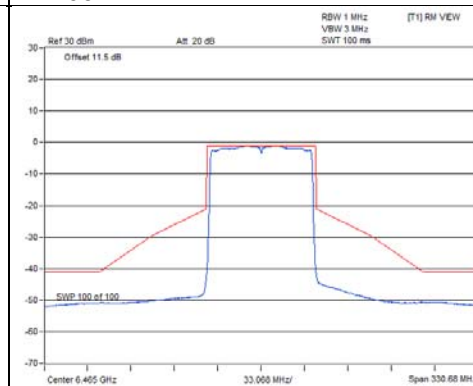
CH55



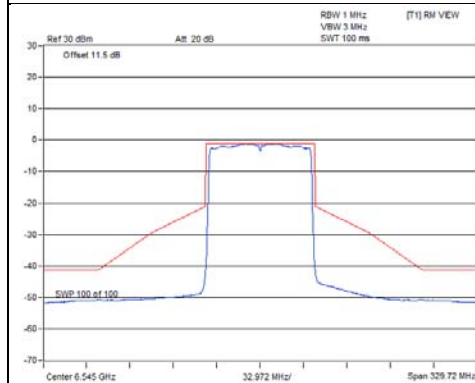
CH87



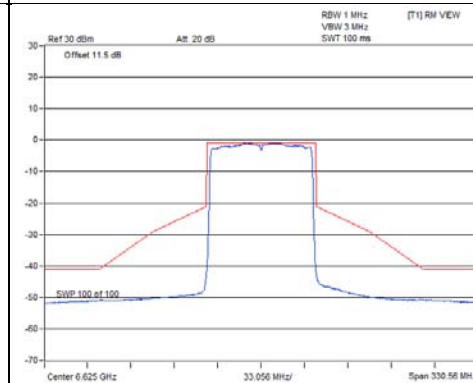
CH103



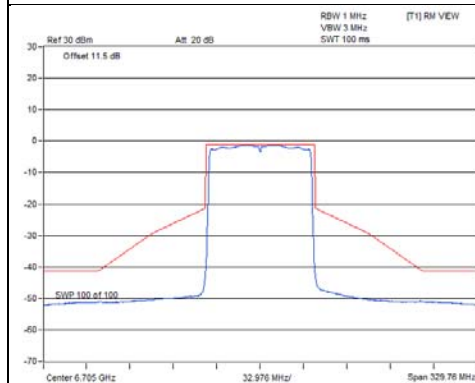
CH119



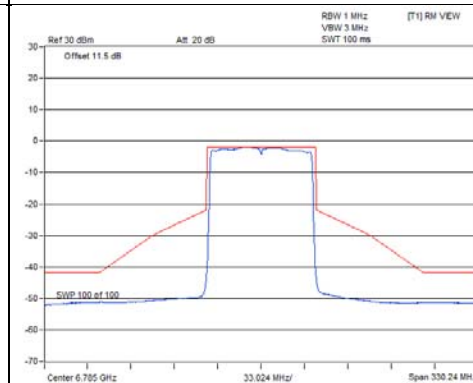
CH135



CH151



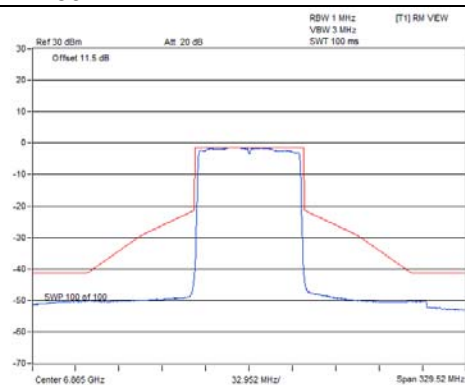
CH167



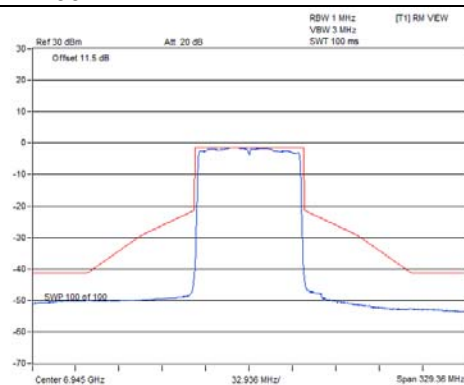
Spectrum Plot of Worst Value

Chain 1

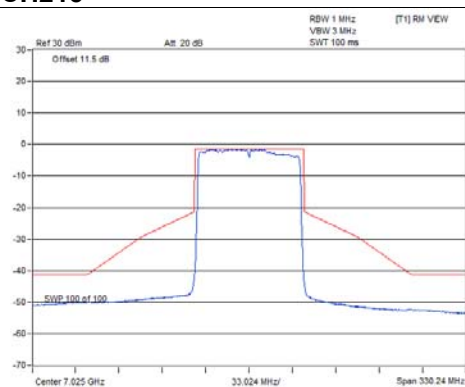
CH183



CH199



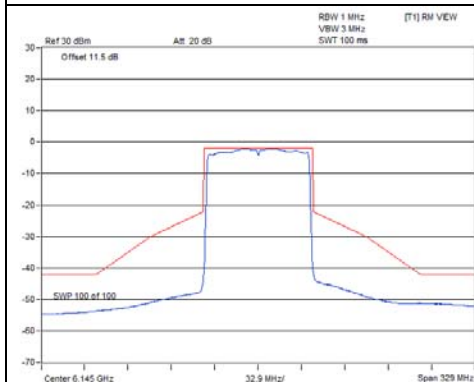
CH215



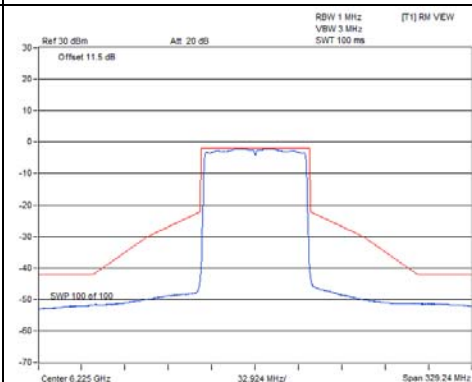
Spectrum Plot of Worst Value

Chain 2

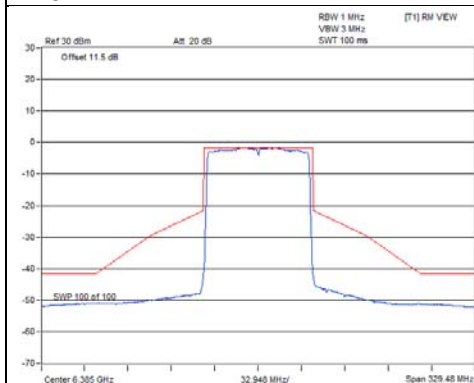
CH39



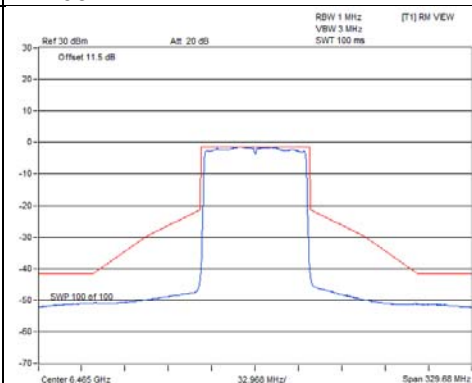
CH55



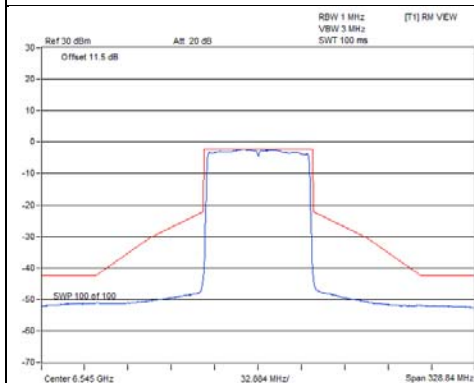
CH87



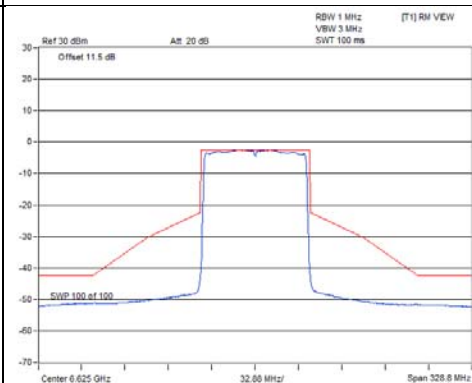
CH103



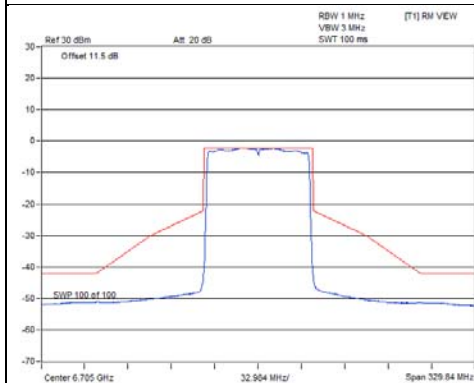
CH119



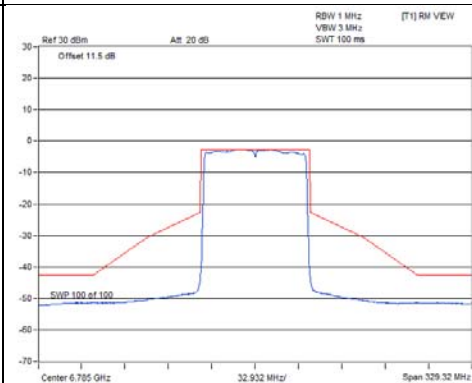
CH135



CH151



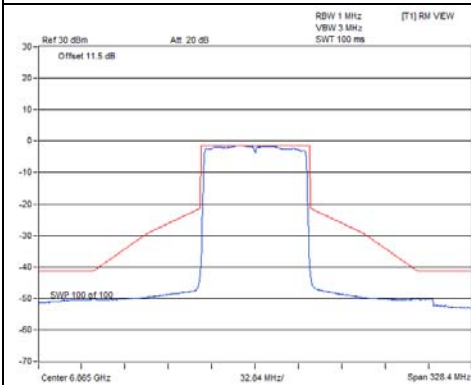
CH167



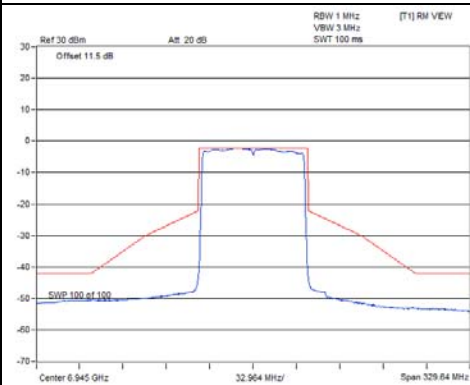
Spectrum Plot of Worst Value

Chain 2

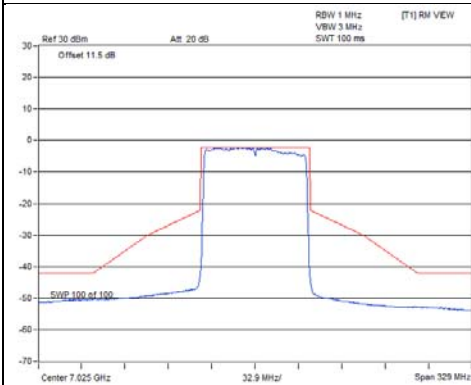
CH183



CH199



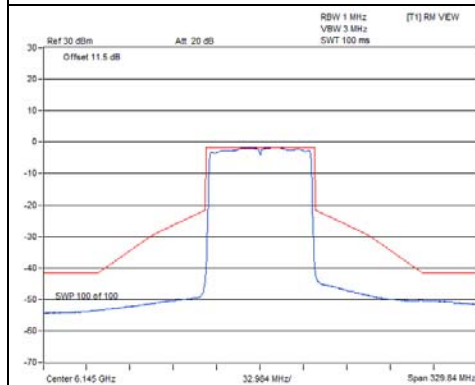
CH215



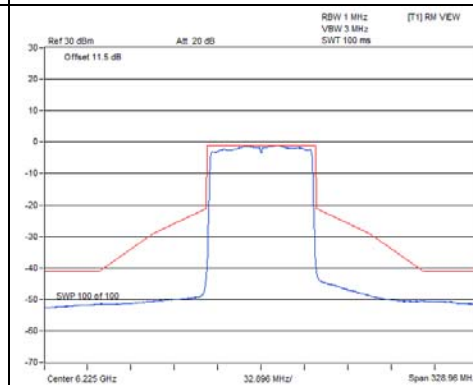
Spectrum Plot of Worst Value

Chain 3

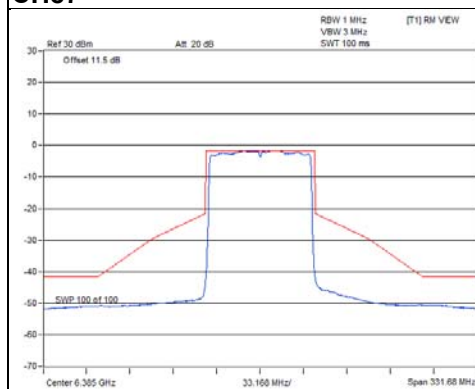
CH39



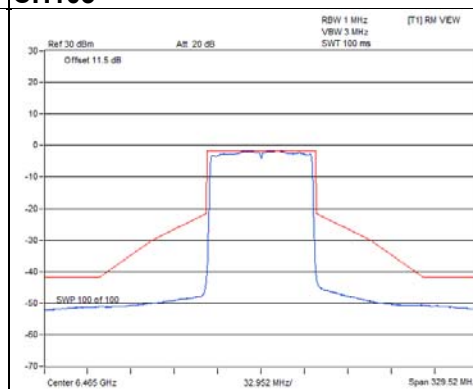
CH55



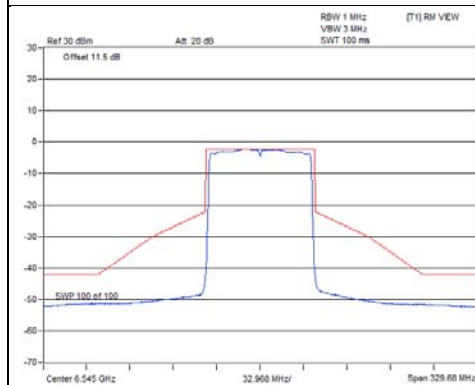
CH87



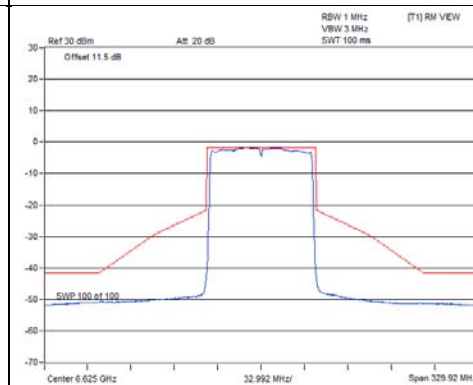
CH103



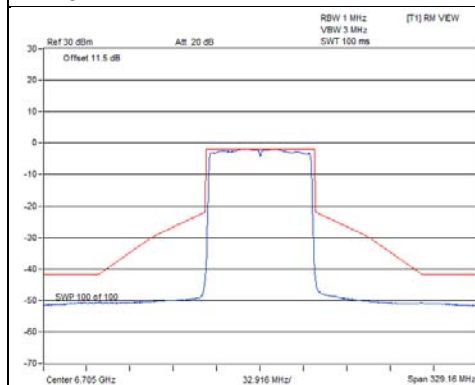
CH119



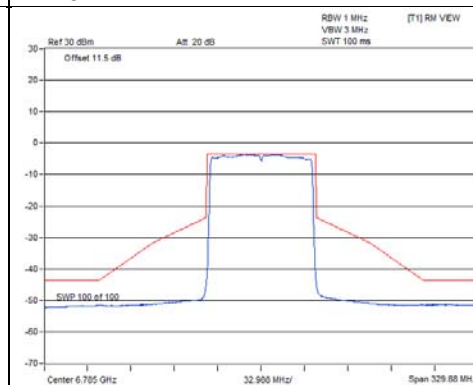
CH135



CH151



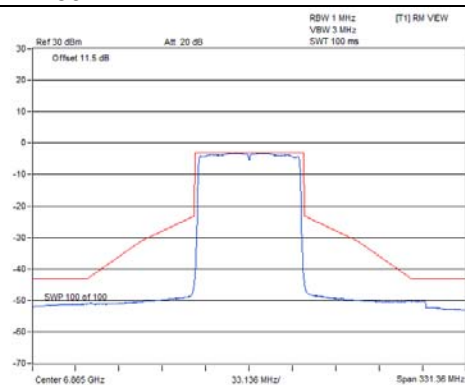
CH167



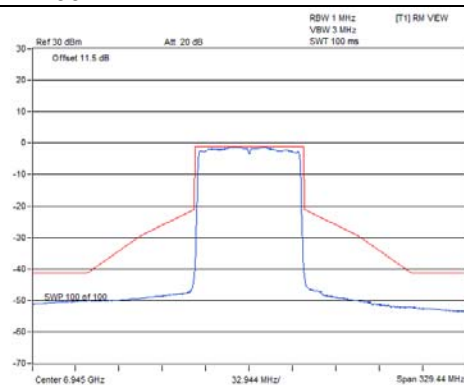
Spectrum Plot of Worst Value

Chain 3

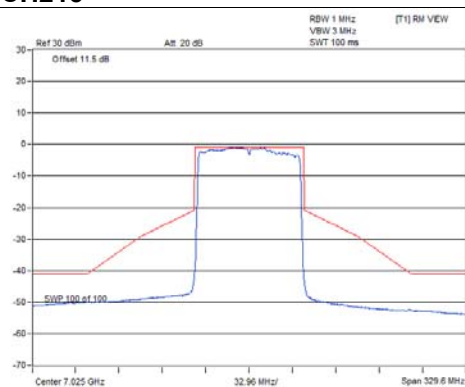
CH183



CH199



CH215

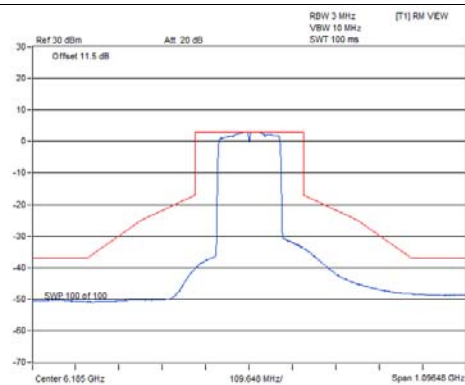


802.11ax (HE160)

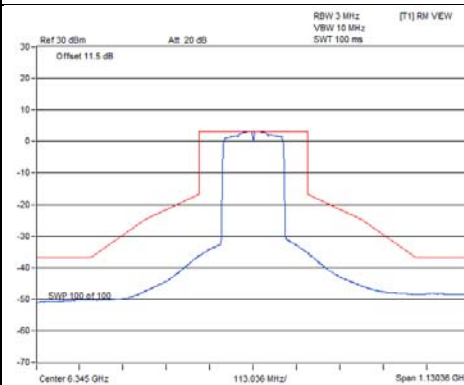
Spectrum Plot of Worst Value

Chain 0

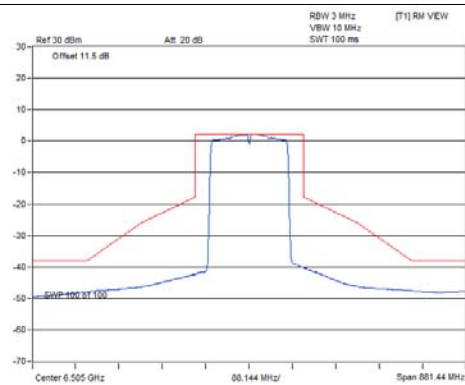
CH47



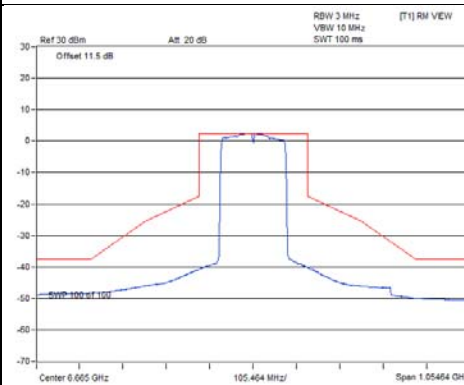
CH79



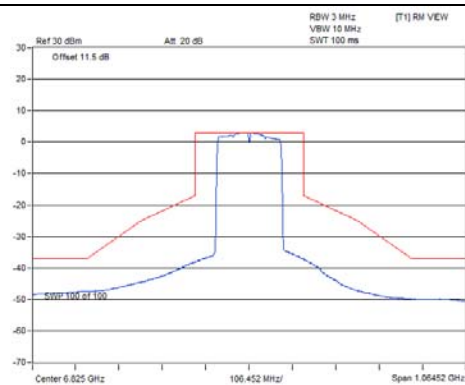
CH111



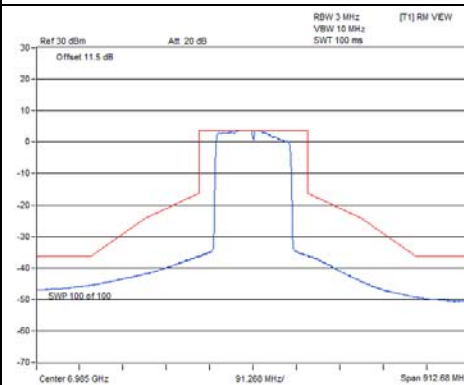
CH143



CH175



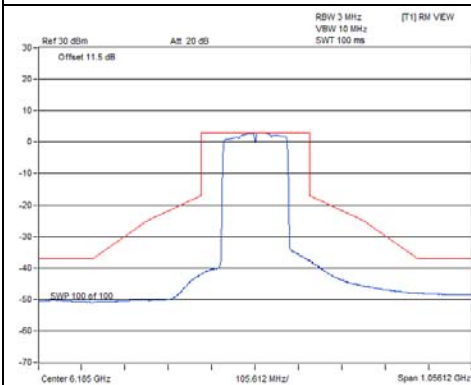
CH207



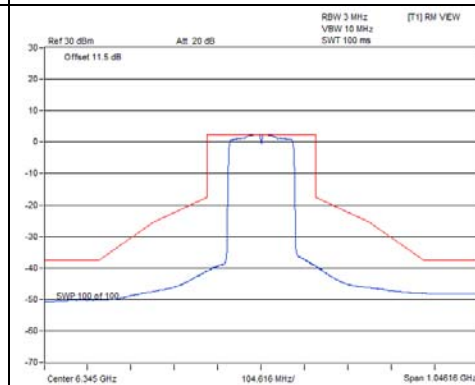
Spectrum Plot of Worst Value

Chain 1

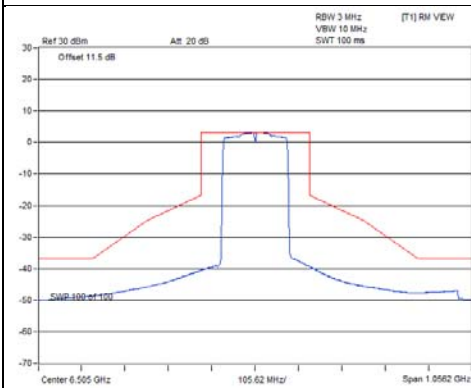
CH47



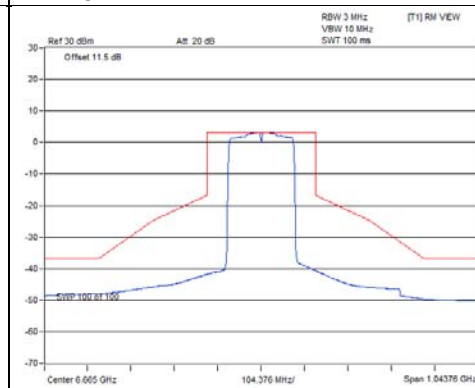
CH79



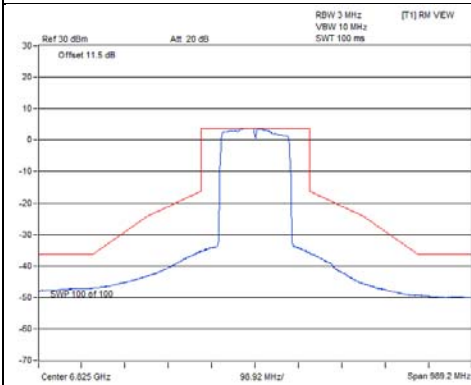
CH111



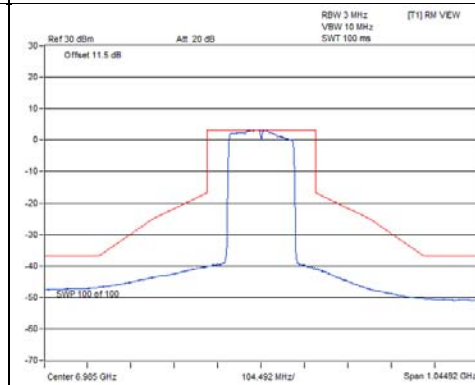
CH143



CH175



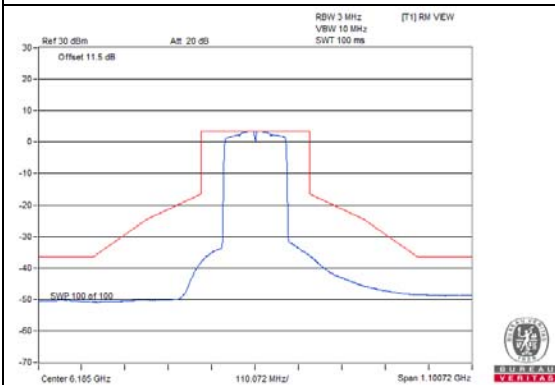
CH207



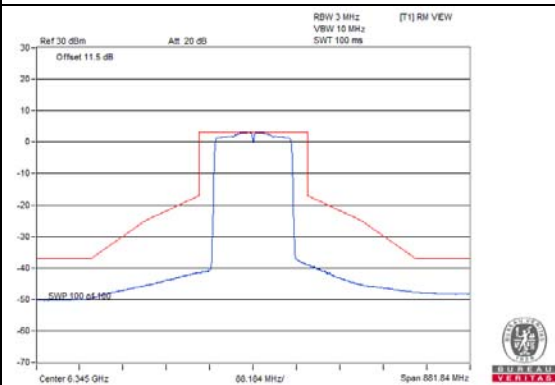
Spectrum Plot of Worst Value

Chain 2

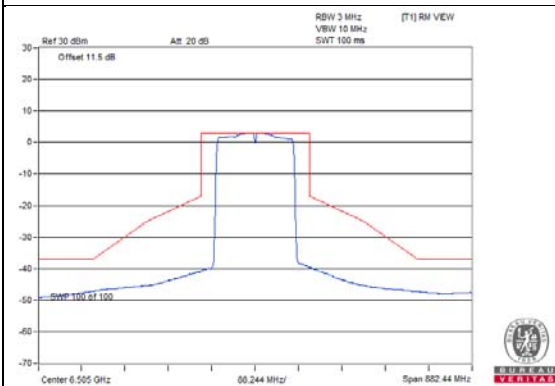
CH47



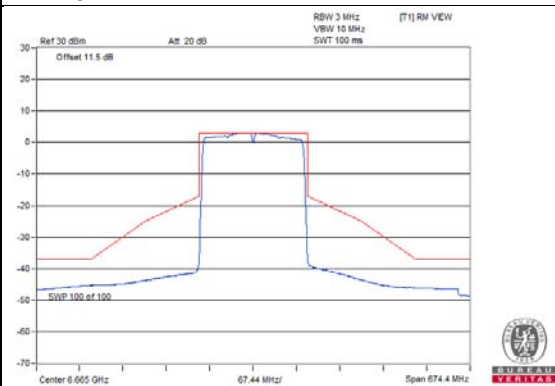
CH79



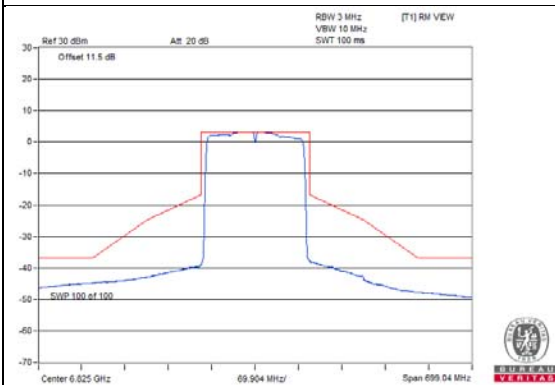
CH111



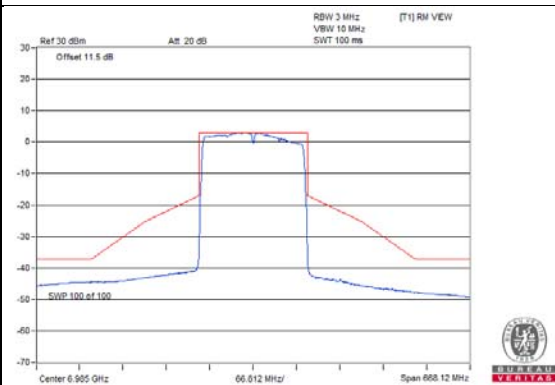
CH143



CH175



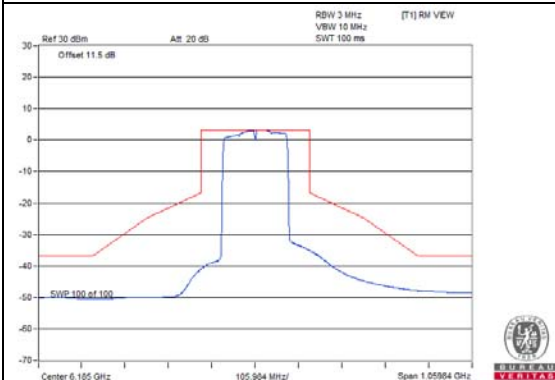
CH207



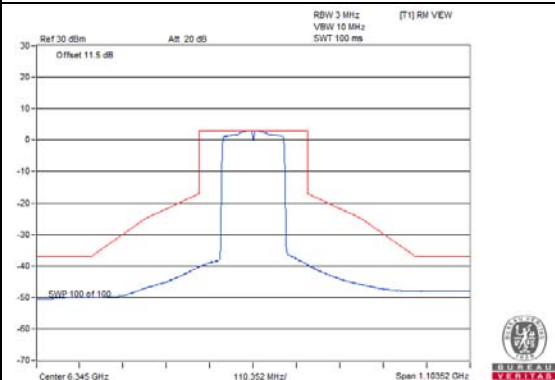
Spectrum Plot of Worst Value

Chain 3

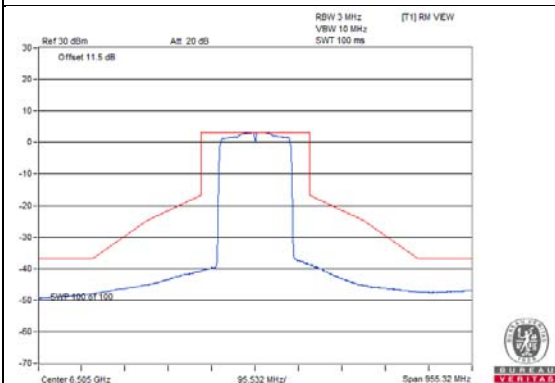
CH47



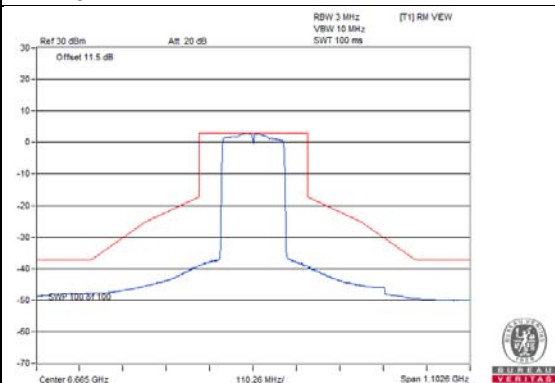
CH79



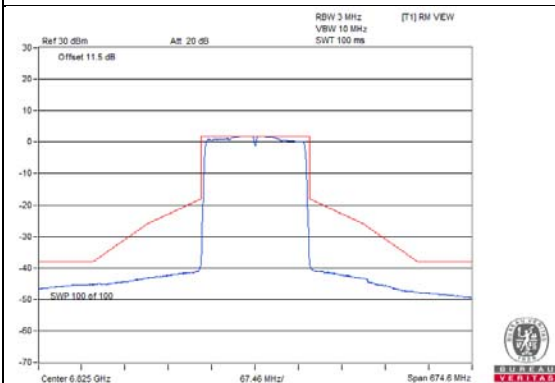
CH111



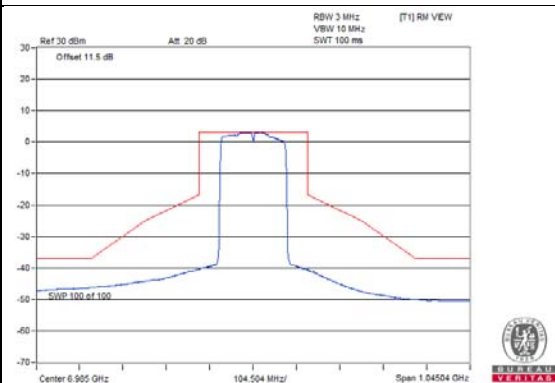
CH143



CH175



CH207



4.3 Conducted Emission Measurement

4.3.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.3.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 20, 2020	Oct. 19, 2021
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 27, 2020	Oct. 26, 2021
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 19, 2020	Mar. 18, 2021
50 ohms Terminator	50	3	Oct. 26, 2020	Oct. 25, 2021
RF Cable	5D-FB	COCCAB-001	Sep. 26, 2020	Sep. 25, 2021
Fixed attenuator EMCI	STI02-2200-10	005	Aug. 29, 2020	Aug. 28, 2021
Software BVADT	BVADT_Cond_V7.3.7.4	NA	NA	NA

Note:

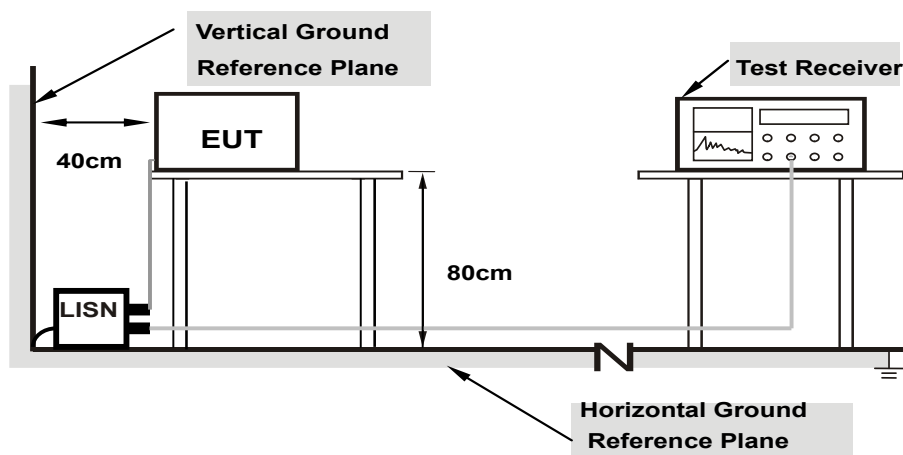
1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
- 3 Tested Date: Mar. 12, 2021

4.3.3 Test Procedure

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.3.4 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.3.5 EUT Operating Condition

Same as 4.1.6.

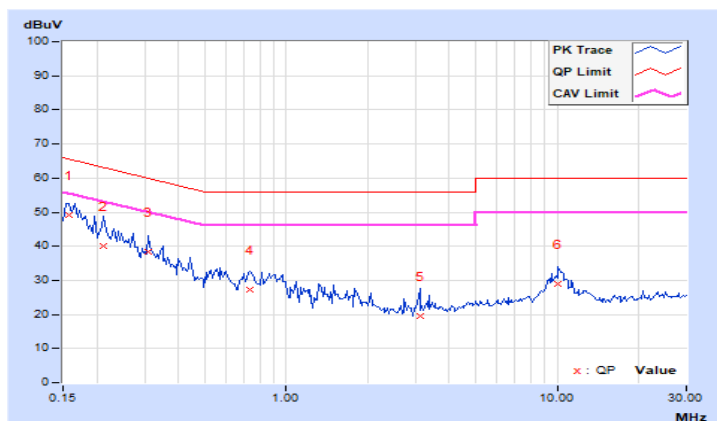
4.3.6 Test Results

RF Mode	TX 802.11ax (HE160)	Channel	CH 207 : 6985 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15775	9.96	39.28	22.27	49.24	32.23	65.58	55.58	-16.34	-23.35
2	0.21242	9.99	30.21	16.15	40.20	26.14	63.11	53.11	-22.91	-26.97
3	0.31011	10.01	28.24	20.58	38.25	30.59	59.97	49.97	-21.72	-19.38
4	0.73587	10.04	17.11	10.08	27.15	20.12	56.00	46.00	-28.85	-25.88
5	3.10962	10.22	9.36	1.13	19.58	11.35	56.00	46.00	-36.42	-34.65
6	10.00768	10.72	18.37	12.77	29.09	23.49	60.00	50.00	-30.91	-26.51

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



RF Mode	TX 802.11ax (HE160)	Channel	CH 207 : 6985 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15374	9.94	40.32	23.47	50.26	33.41	65.80	55.80	-15.54	-22.39
2	0.18502	9.97	32.59	13.63	42.56	23.60	64.26	54.26	-21.70	-30.66
3	0.31035	10.00	28.37	21.26	38.37	31.26	59.96	49.96	-21.59	-18.70
4	0.76726	10.05	14.68	3.97	24.73	14.02	56.00	46.00	-31.27	-31.98
5	2.15239	10.15	10.97	5.24	21.12	15.39	56.00	46.00	-34.88	-30.61
6	10.16786	10.63	13.19	7.55	23.82	18.18	60.00	50.00	-36.18	-31.82

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



4.4 Transmit Power Measurement

4.4.1 Limits of Transmit Power Measurement

Operation Band	EUT Category	Limit
		Max Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Indoor AP	EIRP 30 dBm

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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

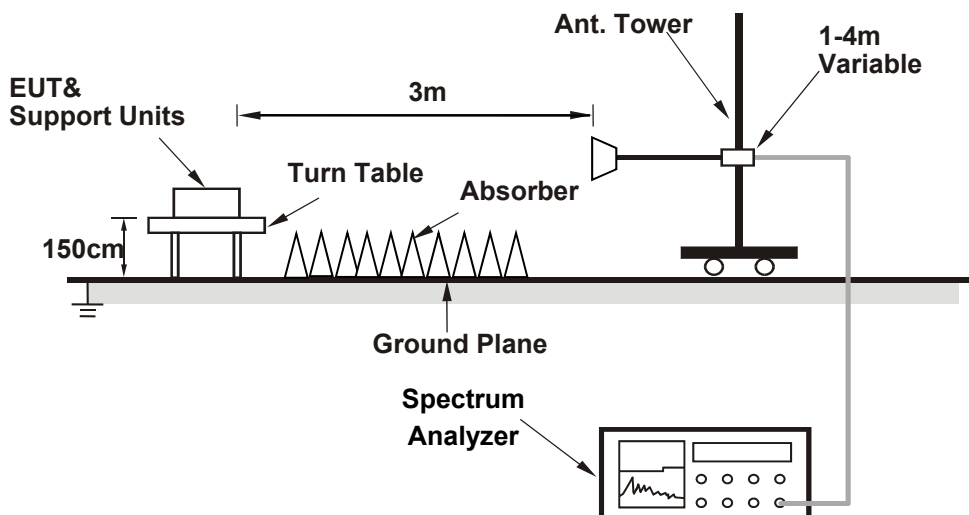
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.4.2 Test Setup

For Radiation Method



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

For Radiation Method

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- e. Follow ANSI 63.10 section 9.5, EIRP Value (dBm) = Field Strength Value (dB μ V/m) + Correction Factor @ 3m.
- f. Correction Factor (dB) @ 3m = $20\log(D) - 104.7$; where D is the measurement distance @3m=-95.15dB

4.4.5 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.6 Test Results (Mode 1)

CDD Mode:

Power Output:

802.11a

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
33	6115	109.77	-95.15	28.973	14.62	30	Pass
61	6255	109.76	-95.15	28.907	14.61	30	Pass
93	6415	109.69	-95.15	28.445	14.54	30	Pass
97	6435	109.75	-95.15	28.84	14.60	30	Pass
105	6475	109.73	-95.15	28.708	14.58	30	Pass
113	6515	109.82	-95.15	29.309	14.67	30	Pass
117	6535	109.80	-95.15	29.174	14.65	30	Pass
153	6715	109.93	-95.15	30.061	14.78	30	Pass
181	6855	110.02	-95.15	30.69	14.87	30	Pass
185	6875	109.93	-95.15	30.061	14.78	30	Pass
213	7015	109.67	-95.15	28.314	14.52	30	Pass
233	7115	109.91	-95.15	29.923	14.76	30	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
33	6115	110.15	-95.15	31.623	15.00	30	Pass
61	6255	110.18	-95.15	31.842	15.03	30	Pass
93	6415	110.01	-95.15	30.62	14.86	30	Pass
97	6435	110.04	-95.15	30.832	14.89	30	Pass
105	6475	110.16	-95.15	31.696	15.01	30	Pass
113	6515	109.86	-95.15	29.58	14.71	30	Pass
117	6535	109.98	-95.15	30.409	14.83	30	Pass
153	6715	110.14	-95.15	31.55	14.99	30	Pass
181	6855	110.13	-95.15	31.477	14.98	30	Pass
185	6875	110.23	-95.15	32.211	15.08	30	Pass
213	7015	109.87	-95.15	29.648	14.72	30	Pass
229	7095	110.06	-95.15	30.974	14.91	30	Pass
233	7115	107.29	-95.15	16.368	12.14	30	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
35	6125	112.96	-95.15	60.395	17.81	30	Pass
59	6245	112.95	-95.15	60.256	17.80	30	Pass
91	6405	113.10	-95.15	62.373	17.95	30	Pass
99	6445	113.03	-95.15	61.376	17.88	30	Pass
107	6485	112.77	-95.15	57.81	17.62	30	Pass
115	6525	112.80	-95.15	58.21	17.65	30	Pass
123	6565	113.34	-95.15	65.917	18.19	30	Pass
155	6725	113.16	-95.15	63.241	18.01	30	Pass
179	6845	113.23	-95.15	64.269	18.08	30	Pass
187	6885	113.12	-95.15	62.661	17.97	30	Pass
211	7005	113.00	-95.15	60.954	17.85	30	Pass
227	7085	113.16	-95.15	63.241	18.01	30	Pass

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
39	6145	116.03	-95.15	122.462	20.88	30	Pass
55	6225	116.02	-95.15	122.18	20.87	30	Pass
87	6385	116.19	-95.15	127.057	21.04	30	Pass
103	6465	116.04	-95.15	122.744	20.89	30	Pass
119	6545	115.84	-95.15	117.22	20.69	30	Pass
135	6625	116.06	-95.15	123.31	20.91	30	Pass
151	6705	115.79	-95.15	115.878	20.64	30	Pass
167	6785	115.90	-95.15	118.85	20.75	30	Pass
183	6865	116.25	-95.15	128.825	21.10	30	Pass
199	6945	115.87	-95.15	118.032	20.72	30	Pass
215	7025	116.04	-95.15	122.744	20.89	30	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
47	6185	119.15	-95.15	251.189	24.00	30	Pass
79	6345	119.04	-95.15	244.906	23.89	30	Pass
111	6505	119.05	-95.15	245.471	23.90	30	Pass
143	6665	118.96	-95.15	240.436	23.81	30	Pass
175	6825	118.92	-95.15	238.232	23.77	30	Pass
207	6985	119.33	-95.15	261.818	24.18	30	Pass

Beamforming Mode:

Power Output:

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
33	6115	112.33	-95.15	52.24	17.18	30	Pass
61	6255	112.27	-95.15	51.523	17.12	30	Pass
93	6415	112.12	-95.15	49.774	16.97	30	Pass
97	6435	112.22	-95.15	50.933	17.07	30	Pass
105	6475	112.13	-95.15	49.888	16.98	30	Pass
113	6515	112.19	-95.15	50.582	17.04	30	Pass
117	6535	112.40	-95.15	53.088	17.25	30	Pass
153	6715	112.37	-95.15	52.723	17.22	30	Pass
181	6855	112.25	-95.15	51.286	17.10	30	Pass
185	6875	112.38	-95.15	52.845	17.23	30	Pass
213	7015	112.27	-95.15	51.523	17.12	30	Pass
229	7095	112.32	-95.15	52.119	17.17	30	Pass
233	7115	111.44	-95.15	42.56	16.29	30	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
35	6125	115.12	-95.15	99.312	19.97	30	Pass
59	6245	115.12	-95.15	99.312	19.97	30	Pass
91	6405	115.14	-95.15	99.77	19.99	30	Pass
99	6445	115.14	-95.15	99.77	19.99	30	Pass
107	6485	114.76	-95.15	91.411	19.61	30	Pass
115	6525	114.74	-95.15	90.991	19.59	30	Pass
123	6565	115.62	-95.15	111.429	20.47	30	Pass
155	6725	115.41	-95.15	106.17	20.26	30	Pass
179	6845	115.41	-95.15	106.17	20.26	30	Pass
187	6885	115.16	-95.15	100.231	20.01	30	Pass
211	7005	115.06	-95.15	97.949	19.91	30	Pass
227	7085	115.10	-95.15	98.855	19.95	30	Pass

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
39	6145	118.28	-95.15	205.589	23.13	30	Pass
55	6225	118.15	-95.15	199.526	23.00	30	Pass
87	6385	118.33	-95.15	207.97	23.18	30	Pass
103	6465	118.31	-95.15	207.014	23.16	30	Pass
119	6545	118.27	-95.15	205.116	23.12	30	Pass
135	6625	118.51	-95.15	216.77	23.36	30	Pass
151	6705	118.39	-95.15	210.863	23.24	30	Pass
167	6785	118.23	-95.15	203.236	23.08	30	Pass
183	6865	118.42	-95.15	212.324	23.27	30	Pass
199	6945	118.21	-95.15	202.302	23.06	30	Pass
215	7025	118.34	-95.15	208.449	23.19	30	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
47	6185	121.11	-95.15	394.457	25.96	30	Pass
79	6345	121.09	-95.15	392.645	25.94	30	Pass
111	6505	121.03	-95.15	387.258	25.88	30	Pass
143	6665	121.60	-95.15	441.57	26.45	30	Pass
175	6825	121.53	-95.15	434.51	26.38	30	Pass
207	6985	121.32	-95.15	414	26.17	30	Pass

4.4.7 Test Results (Mode 2)

SDM Mode:

Power Output:

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
33	6115	112.16	-95.15	50.234	17.01	30	Pass
61	6255	112.36	-95.15	52.602	17.21	30	Pass
93	6415	112.08	-95.15	49.317	16.93	30	Pass
97	6435	112.11	-95.15	49.659	16.96	30	Pass
105	6475	112.34	-95.15	52.36	17.19	30	Pass
113	6515	112.19	-95.15	50.582	17.04	30	Pass
117	6535	111.85	-95.15	46.774	16.70	30	Pass
153	6715	112.17	-95.15	50.35	17.02	30	Pass
181	6855	112.31	-95.15	52	17.16	30	Pass
185	6875	112.41	-95.15	53.211	17.26	30	Pass
213	7015	112.03	-95.15	48.753	16.88	30	Pass
229	7095	112.29	-95.15	51.761	17.14	30	Pass
233	7115	107.30	-95.15	16.406	12.15	30	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
35	6125	114.96	-95.15	95.719	19.81	30	Pass
59	6245	115.04	-95.15	97.499	19.89	30	Pass
91	6405	114.83	-95.15	92.897	19.68	30	Pass
99	6445	115.23	-95.15	101.859	20.08	30	Pass
107	6485	114.89	-95.15	94.189	19.74	30	Pass
115	6525	114.83	-95.15	92.897	19.68	30	Pass
123	6565	115.40	-95.15	105.925	20.25	30	Pass
155	6725	115.22	-95.15	101.625	20.07	30	Pass
179	6845	115.24	-95.15	102.094	20.09	30	Pass
187	6885	115.36	-95.15	104.954	20.21	30	Pass
211	7005	115.14	-95.15	99.77	19.99	30	Pass
227	7085	115.12	-95.15	99.312	19.97	30	Pass

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
39	6145	118.37	-95.15	209.894	23.22	30	Pass
55	6225	118.32	-95.15	207.491	23.17	30	Pass
87	6385	118.28	-95.15	205.589	23.13	30	Pass
103	6465	118.12	-95.15	198.153	22.97	30	Pass
119	6545	117.86	-95.15	186.638	22.71	30	Pass
135	6625	117.96	-95.15	190.985	22.81	30	Pass
151	6705	118.19	-95.15	201.372	23.04	30	Pass
167	6785	117.65	-95.15	177.828	22.50	30	Pass
183	6865	118.24	-95.15	203.704	23.09	30	Pass
199	6945	118.16	-95.15	199.986	23.01	30	Pass
215	7025	118.15	-95.15	199.526	23.00	30	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
47	6185	121.27	-95.15	409.261	26.12	30	Pass
79	6345	121.08	-95.15	391.742	25.93	30	Pass
111	6505	120.77	-95.15	364.754	25.62	30	Pass
143	6665	120.86	-95.15	372.392	25.71	30	Pass
175	6825	120.84	-95.15	370.681	25.69	30	Pass
207	6985	121.27	-95.15	409.261	26.12	30	Pass

Beamforming Mode:

Power Output:

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
33	6115	112.22	-95.15	50.933	17.07	30	Pass
61	6255	112.22	-95.15	50.933	17.07	30	Pass
93	6415	112.12	-95.15	49.774	16.97	30	Pass
97	6435	112.18	-95.15	50.466	17.03	30	Pass
105	6475	112.26	-95.15	51.404	17.11	30	Pass
113	6515	112.11	-95.15	49.659	16.96	30	Pass
117	6535	111.89	-95.15	47.206	16.74	30	Pass
153	6715	112.10	-95.15	49.545	16.95	30	Pass
181	6855	112.39	-95.15	52.966	17.24	30	Pass
185	6875	112.43	-95.15	53.456	17.28	30	Pass
213	7015	112.16	-95.15	50.234	17.01	30	Pass
229	7095	112.23	-95.15	51.05	17.08	30	Pass
233	7115	107.40	-95.15	16.788	12.25	30	Pass

802.11ax (HE40)

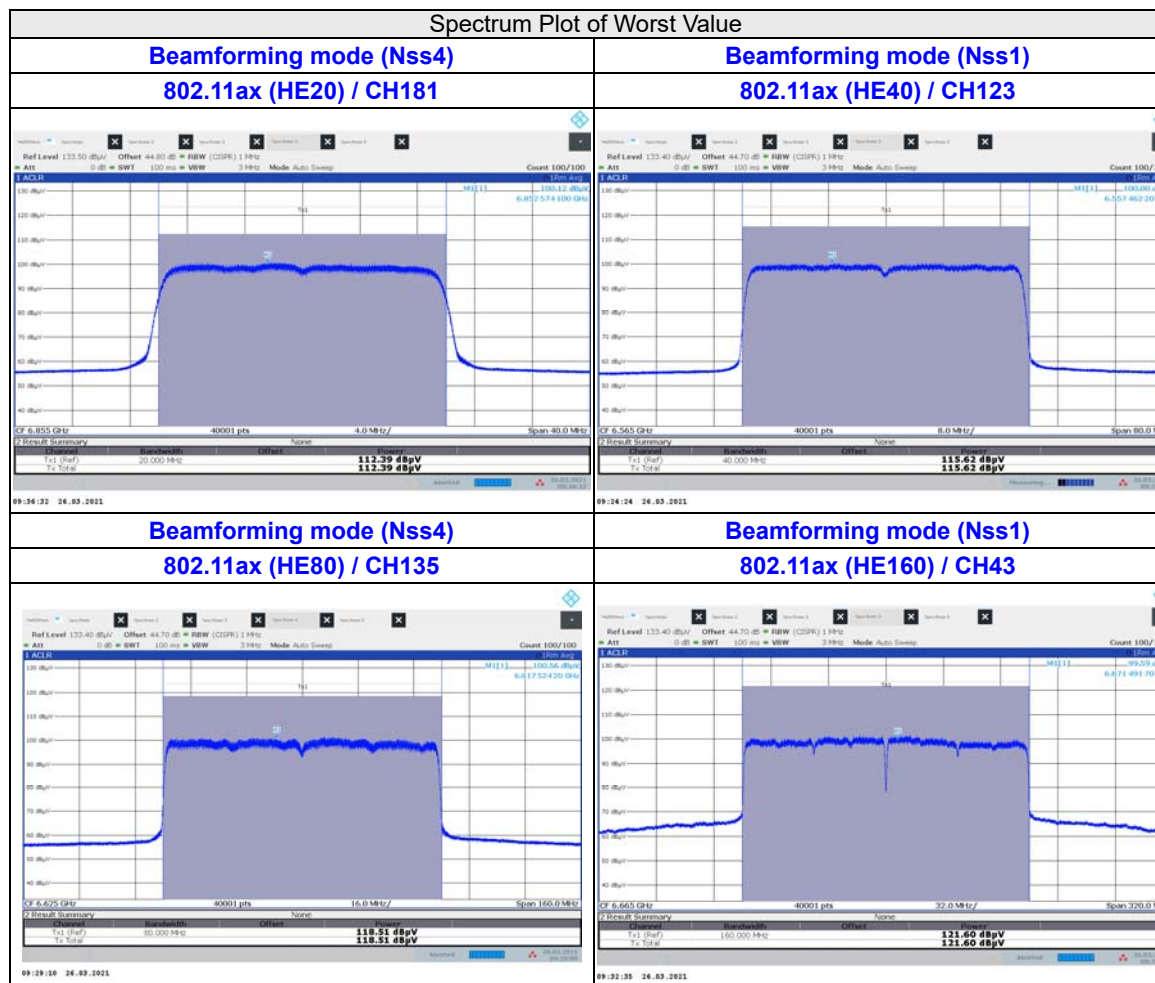
Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
35	6125	115.06	-95.15	97.949	19.91	30	Pass
59	6245	115.14	-95.15	99.77	19.99	30	Pass
91	6405	114.93	-95.15	95.06	19.78	30	Pass
99	6445	115.21	-95.15	101.391	20.06	30	Pass
107	6485	114.85	-95.15	93.325	19.70	30	Pass
115	6525	114.79	-95.15	92.045	19.64	30	Pass
123	6565	115.40	-95.15	105.925	20.25	30	Pass
155	6725	115.14	-95.15	99.77	19.99	30	Pass
179	6845	115.09	-95.15	98.628	19.94	30	Pass
187	6885	115.35	-95.15	104.713	20.20	30	Pass
211	7005	115.14	-95.15	99.77	19.99	30	Pass
227	7085	115.33	-95.15	104.232	20.18	30	Pass

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
39	6145	118.29	-95.15	206.063	23.14	30	Pass
55	6225	118.18	-95.15	200.909	23.03	30	Pass
87	6385	118.28	-95.15	205.589	23.13	30	Pass
103	6465	118.15	-95.15	199.526	23.00	30	Pass
119	6545	117.90	-95.15	188.365	22.75	30	Pass
135	6625	118.04	-95.15	194.536	22.89	30	Pass
151	6705	118.23	-95.15	203.236	23.08	30	Pass
167	6785	117.83	-95.15	185.353	22.68	30	Pass
183	6865	118.35	-95.15	208.93	23.20	30	Pass
199	6945	118.29	-95.15	206.063	23.14	30	Pass
215	7025	118.29	-95.15	206.063	23.14	30	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
47	6185	121.36	-95.15	417.83	26.21	30	Pass
79	6345	121.00	-95.15	384.592	25.85	30	Pass
111	6505	120.81	-95.15	368.129	25.66	30	Pass
143	6665	120.78	-95.15	365.595	25.63	30	Pass
175	6825	120.81	-95.15	368.129	25.66	30	Pass
207	6985	121.35	-95.15	416.869	26.20	30	Pass

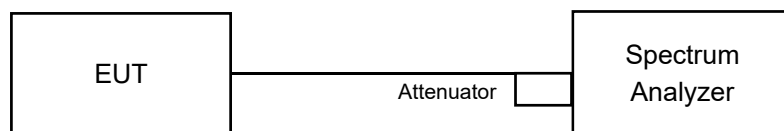


4.5 Emission Bandwidth Measurement

4.5.1 Limits of Emission Bandwidth Measurement

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

FOR 99% OCCUPIED BANDWIDTH

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

FOR 26dB BANDWIDTH

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.5.5 Test Results (Mode 1)

CDD Mode:

99% Occupied Bandwidth:

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	17.04	17.13	16.95	16.87	320	Pass
61	6255	17.04	17.16	17.04	16.92	320	Pass
93	6415	16.92	17.16	17.04	16.92	320	Pass
97	6435	16.92	17.16	17.04	16.8	320	Pass
105	6475	17.04	17.16	17.04	16.92	320	Pass
113	6515	16.92	17.16	17.04	16.92	320	Pass
117	6535	17.04	17.16	17.04	16.92	320	Pass
153	6715	16.92	17.16	17.04	16.92	320	Pass
181	6855	16.92	17.04	17.04	16.92	320	Pass
185	6875	16.92	17.04	17.04	16.8	320	Pass
213	7015	16.92	17.04	16.92	16.8	320	Pass
233	7115	17.04	17.04	17.04	16.92	320	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	19.14	19.14	19.2	19.14	320	Pass
61	6255	19.2	19.2	19.2	19.2	320	Pass
93	6415	19.2	19.32	19.2	19.2	320	Pass
97	6435	19.2	19.32	19.2	19.2	320	Pass
105	6475	19.2	19.2	19.2	19.2	320	Pass
113	6515	19.2	19.2	19.2	19.2	320	Pass
117	6535	19.2	19.2	19.2	19.2	320	Pass
153	6715	19.2	19.2	19.08	19.2	320	Pass
181	6855	19.2	19.08	19.2	19.2	320	Pass
185	6875	19.2	19.08	19.2	19.2	320	Pass
213	7015	19.08	19.2	19.08	19.08	320	Pass
229	7095	19.14	19.14	19.14	19.14	320	Pass
233	7115	19.14	19.22	19.14	19.14	320	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
35	6125	37.92	37.92	37.92	36.48	320	Pass
59	6245	37.92	37.92	37.92	37.92	320	Pass
91	6405	37.92	37.92	37.92	37.92	320	Pass
99	6445	37.92	37.92	37.92	37.92	320	Pass
107	6485	37.92	37.92	37.92	37.92	320	Pass
115	6525	37.92	37.92	37.92	37.92	320	Pass
123	6565	37.92	37.92	37.92	37.92	320	Pass
155	6725	37.92	37.92	37.92	37.92	320	Pass
179	6845	37.92	37.68	37.92	37.92	320	Pass
187	6885	37.92	37.92	37.92	37.92	320	Pass
211	7005	37.68	37.92	37.68	37.68	320	Pass
227	7085	37.68	37.92	37.92	37.68	320	Pass

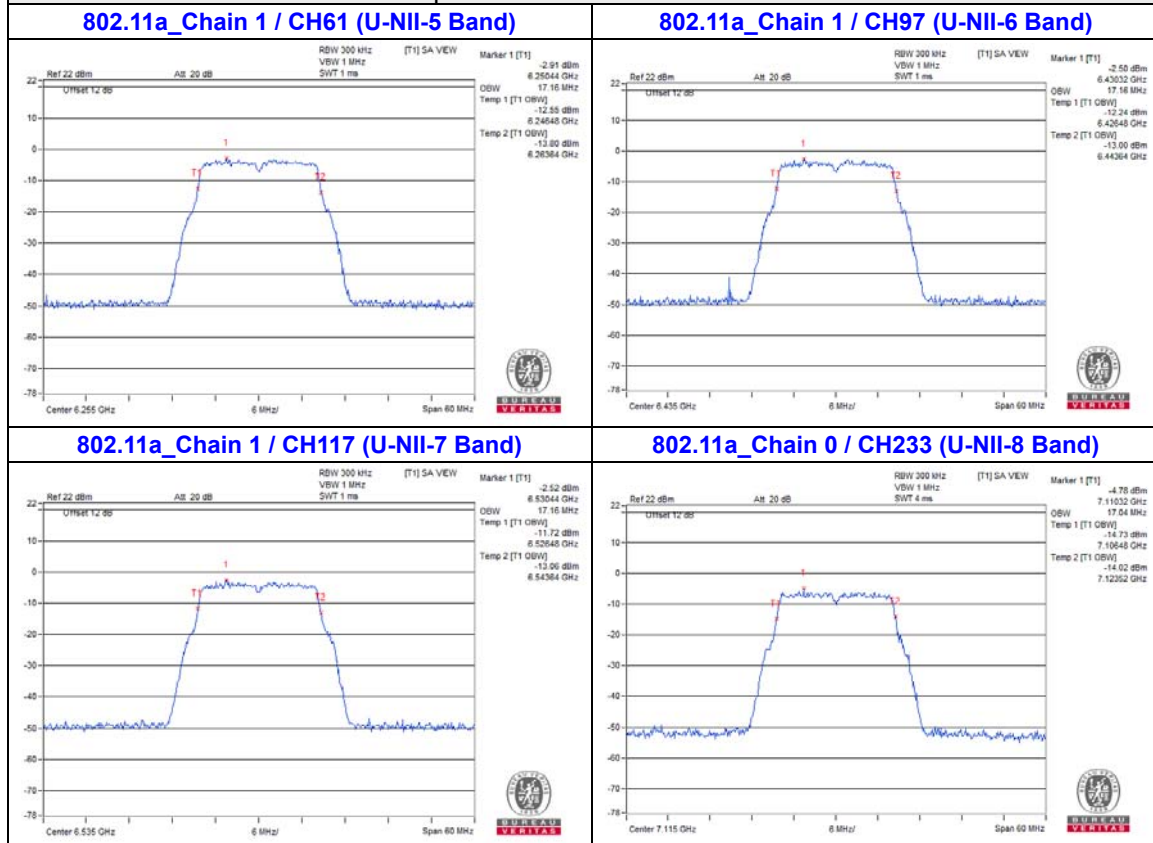
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
39	6145	76.8	76.8	76.8	76.8	320	Pass
55	6225	76.8	76.8	76.8	76.8	320	Pass
87	6385	76.8	77.28	77.28	77.28	320	Pass
103	6465	76.8	76.8	76.8	77.28	320	Pass
119	6545	76.8	76.8	76.8	77.28	320	Pass
135	6625	77.28	77.28	77.28	77.28	320	Pass
151	6705	76.8	77.28	76.8	77.28	320	Pass
167	6785	76.8	76.8	77.28	76.8	320	Pass
183	6865	77.28	77.28	76.8	76.8	320	Pass
199	6945	76.8	77.28	77.28	77.28	320	Pass
215	7025	77.28	77.28	77.28	77.28	320	Pass

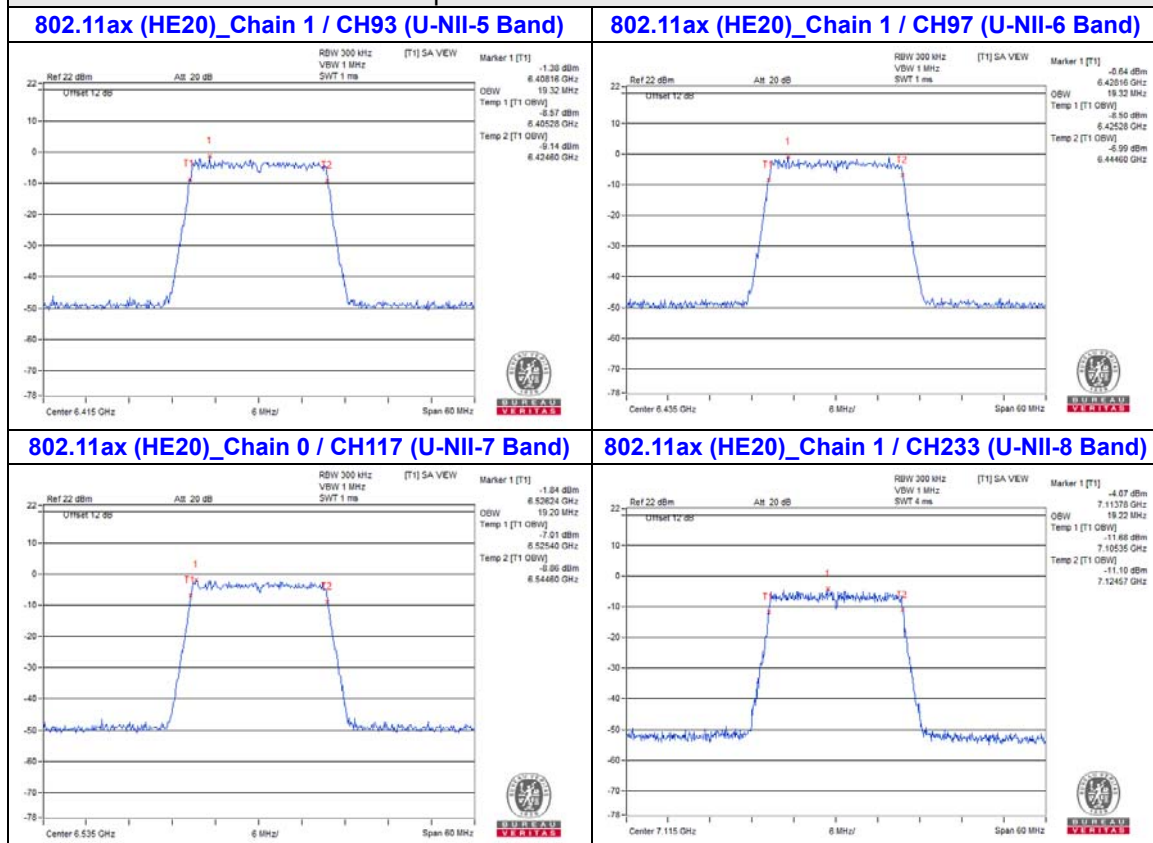
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
47	6185	155.52	155.52	155.52	155.52	320	Pass
79	6345	155.52	156.48	156.48	156.48	320	Pass
111	6505	155.52	155.52	155.52	155.52	320	Pass
143	6665	155.52	155.52	155.52	154.56	320	Pass
175	6825	155.52	154.56	156.48	156.48	320	Pass
207	6985	155.52	156.48	155.52	155.52	320	Pass

Spectrum Plot of Max. Value

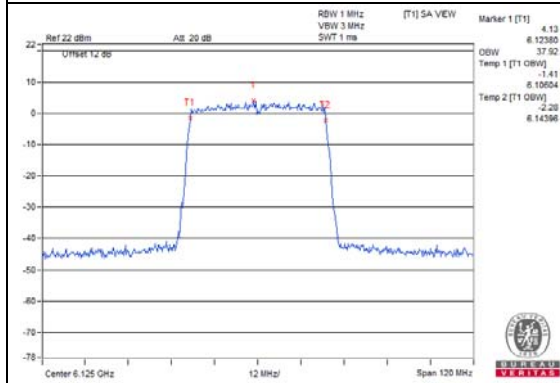


Spectrum Plot of Max. Value

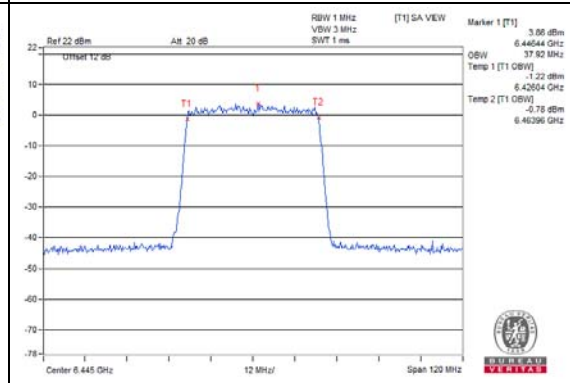


Spectrum Plot of Max. Value

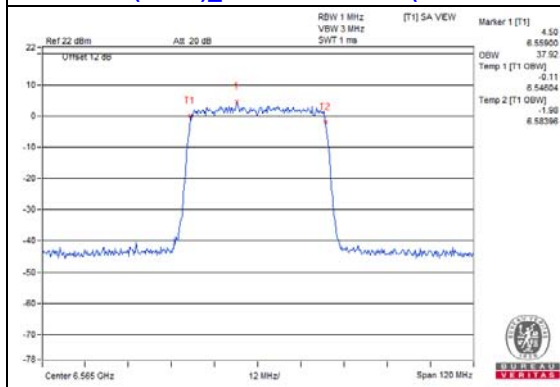
802.11ax (HE40)_Chain 0 / CH35 (U-NII-5 Band)



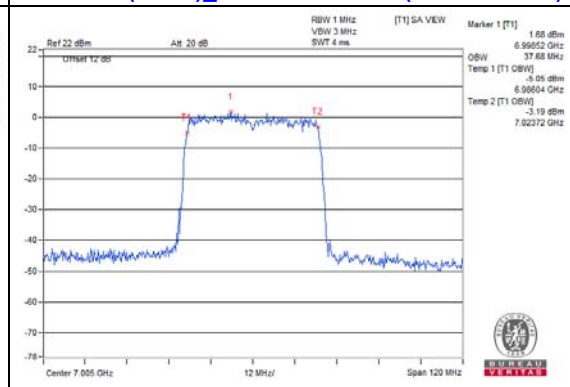
802.11ax (HE40)_Chain 0 / CH99 (U-NII-6 Band)



802.11ax (HE40)_Chain 0 / CH123 (U-NII-7 Band)

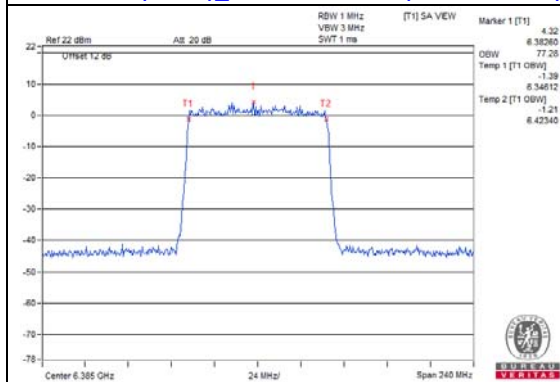


802.11ax (HE40)_Chain 1 / CH211 (U-NII-8 Band)

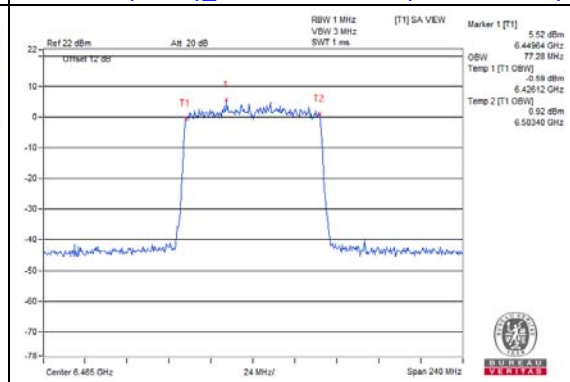


Spectrum Plot of Max. Value

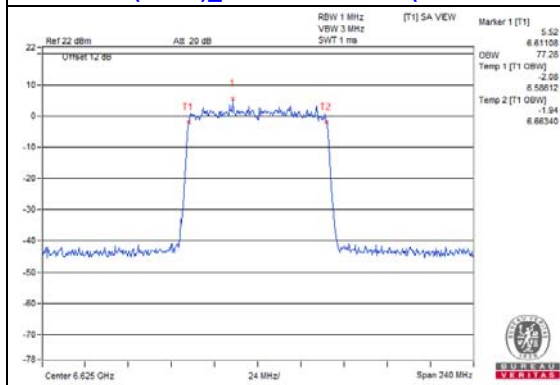
802.11ax (HE80)_Chain 1 / CH87 (U-NII-5 Band)



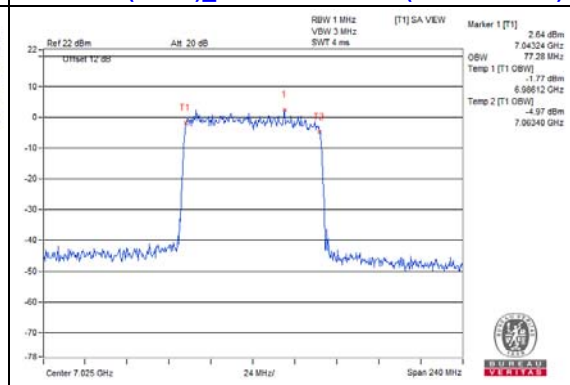
802.11ax (HE80)_Chain 3 / CH103 (U-NII-6 Band)



802.11ax (HE80)_Chain 0 / CH135 (U-NII-7 Band)

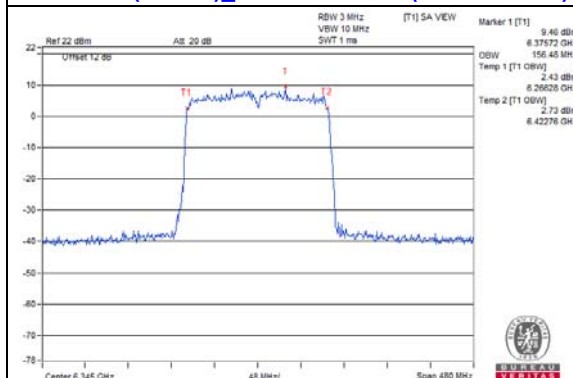


802.11ax (HE80)_Chain 0 / CH215 (U-NII-8 Band)

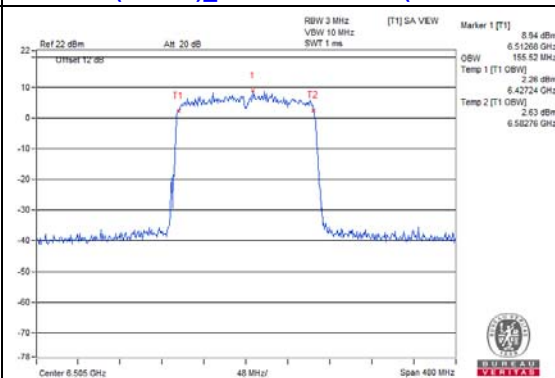


Spectrum Plot of Max. Value

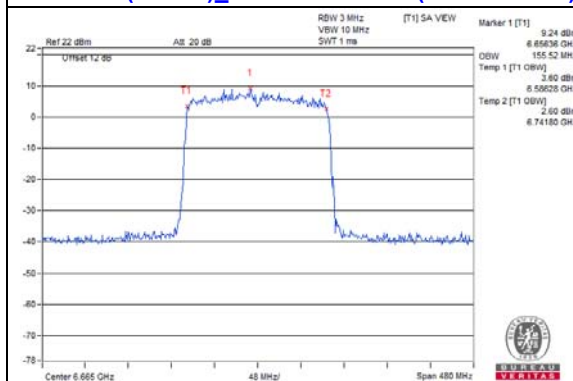
802.11ax (HE160)_Chain 1 / CH79 (U-NII-5 Band)



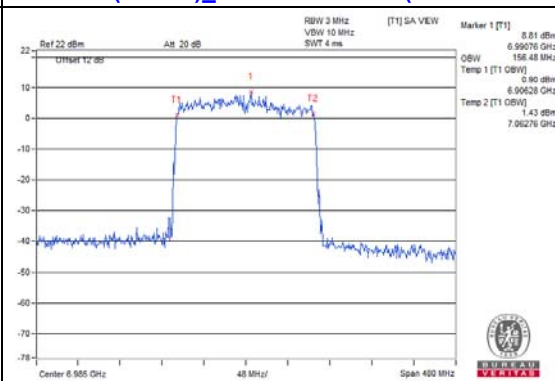
802.11ax (HE160)_Chain 0 / CH111 (U-NII-6 Band)



802.11ax (HE160)_Chain 0 / CH143 (U-NII-7 Band)



802.11ax (HE160)_Chain 1 / CH207 (U-NII-8 Band)



26dB Bandwidth:

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	21.57	21.88	21.77	21.54	320	Pass
61	6255	21.6	21.92	21.86	21.7	320	Pass
93	6415	21.63	21.95	21.86	21.86	320	Pass
97	6435	21.69	21.84	21.93	21.76	320	Pass
105	6475	21.68	21.94	21.83	21.81	320	Pass
113	6515	21.71	21.93	21.92	21.68	320	Pass
117	6535	21.74	21.92	21.85	21.68	320	Pass
153	6715	21.72	21.85	21.89	21.73	320	Pass
181	6855	21.69	21.92	21.91	21.66	320	Pass
185	6875	21.7	21.81	21.85	21.81	320	Pass
213	7015	21.57	21.9	21.75	21.62	320	Pass
233	7115	21.74	21.72	21.88	21.71	320	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	22.08	21.98	21.95	21.98	320	Pass
61	6255	22.12	21.85	21.76	21.98	320	Pass
93	6415	22.03	21.82	21.76	22.01	320	Pass
97	6435	22.12	21.82	21.88	21.99	320	Pass
105	6475	21.98	21.89	21.97	22.12	320	Pass
113	6515	22	21.95	21.88	22.04	320	Pass
117	6535	21.94	21.88	21.73	21.99	320	Pass
153	6715	21.97	21.91	21.73	21.96	320	Pass
181	6855	21.97	21.88	21.77	21.93	320	Pass
185	6875	22.09	21.87	21.74	21.89	320	Pass
213	7015	21.97	21.79	21.86	21.91	320	Pass
229	7095	21.91	21.93	21.77	21.83	320	Pass
233	7115	21.99	21.8	21.77	21.99	320	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
35	6125	41.43	41.46	41.45	41.47	320	Pass
59	6245	41.13	41.34	41.32	41.51	320	Pass
91	6405	41.44	41.2	41.48	41.47	320	Pass
99	6445	41.52	41.64	41.39	41.51	320	Pass
107	6485	41.47	41.6	41.34	41.62	320	Pass
115	6525	41.28	41.47	41.32	41.59	320	Pass
123	6565	41.2	41.53	41.51	41.34	320	Pass
155	6725	41.5	41.32	41.36	41.53	320	Pass
179	6845	41.51	41.33	41.41	41.47	320	Pass
187	6885	41.65	41.44	41.28	41.44	320	Pass
211	7005	41.14	41.37	41.42	41.24	320	Pass
227	7085	41.23	41.55	41.58	41.21	320	Pass

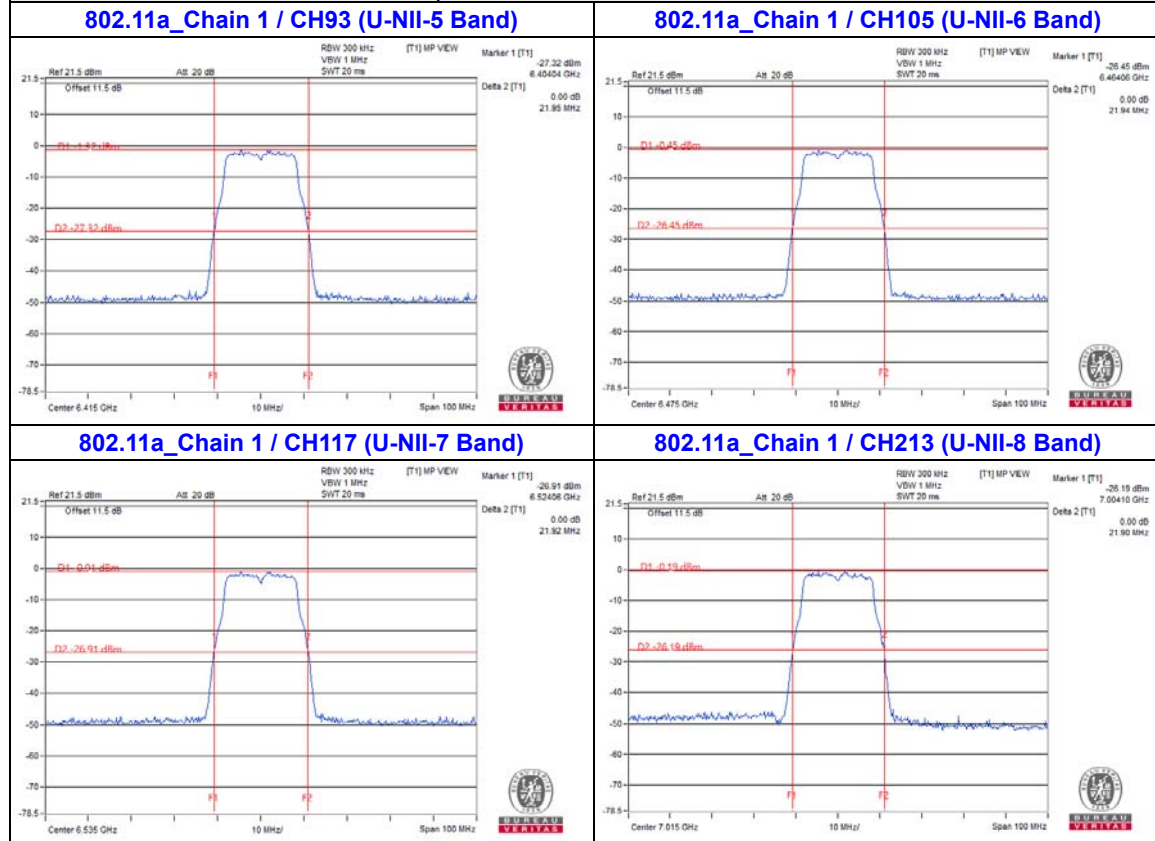
802.11ax (HE80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
39	6145	81.93	82.49	82.33	82.36	320	Pass
55	6225	82.43	82.51	82.54	82.45	320	Pass
87	6385	82.11	82.59	82.52	82.4	320	Pass
103	6465	82.45	82.51	82.37	82.63	320	Pass
119	6545	82.48	82.56	82.7	82.48	320	Pass
135	6625	82.07	82.45	82.47	82.43	320	Pass
151	6705	82.66	82.46	82.52	82.38	320	Pass
167	6785	81.78	82.58	82.39	82.47	320	Pass
183	6865	82.19	82.33	82.49	82.28	320	Pass
199	6945	82.21	82.19	82.41	82.15	320	Pass
215	7025	82.17	82.36	82.44	82.25	320	Pass

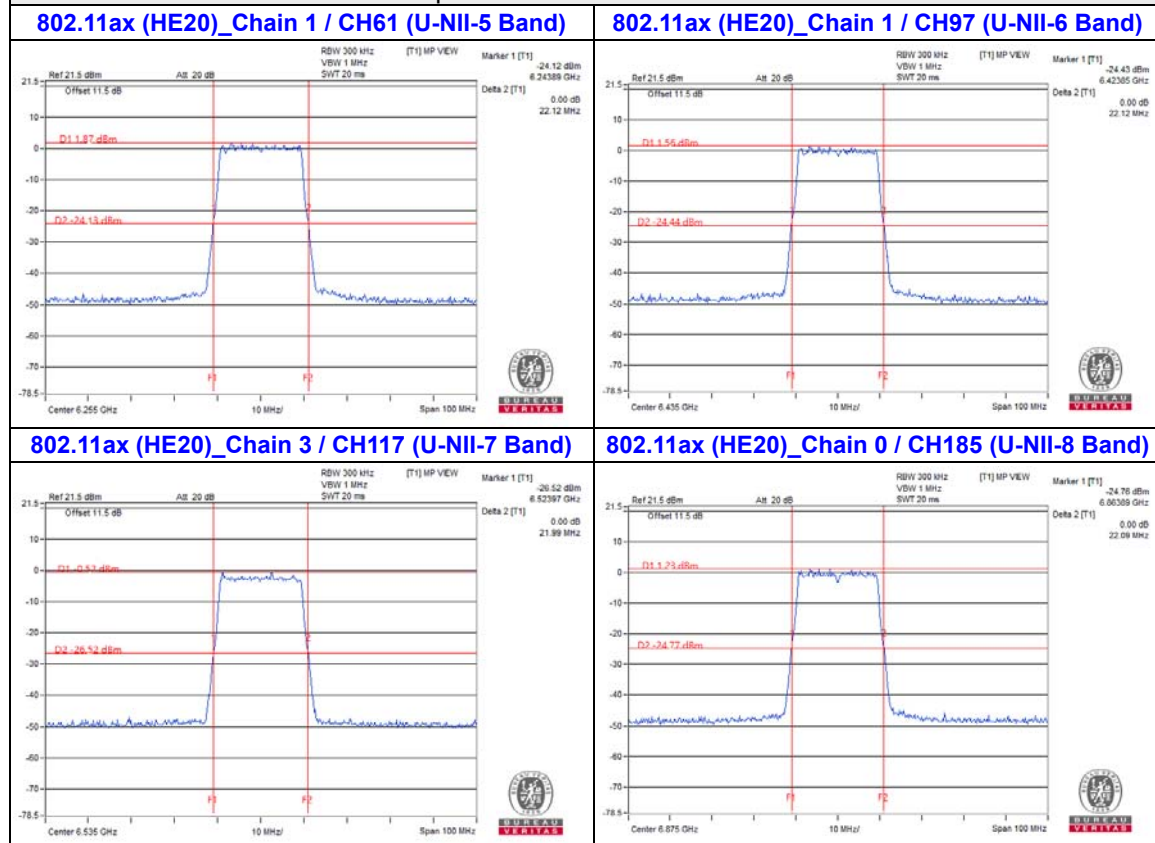
802.11ax (HE160)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
47	6185	167.1	167.41	167.32	167.95	320	Pass
79	6345	168.01	167.6	167.81	168.45	320	Pass
111	6505	168.14	167.52	167.23	168.19	320	Pass
143	6665	168.16	167.12	166.54	167.99	320	Pass
175	6825	168.73	167.43	166.44	167.52	320	Pass
207	6985	167.23	166.17	166.28	167.2	320	Pass

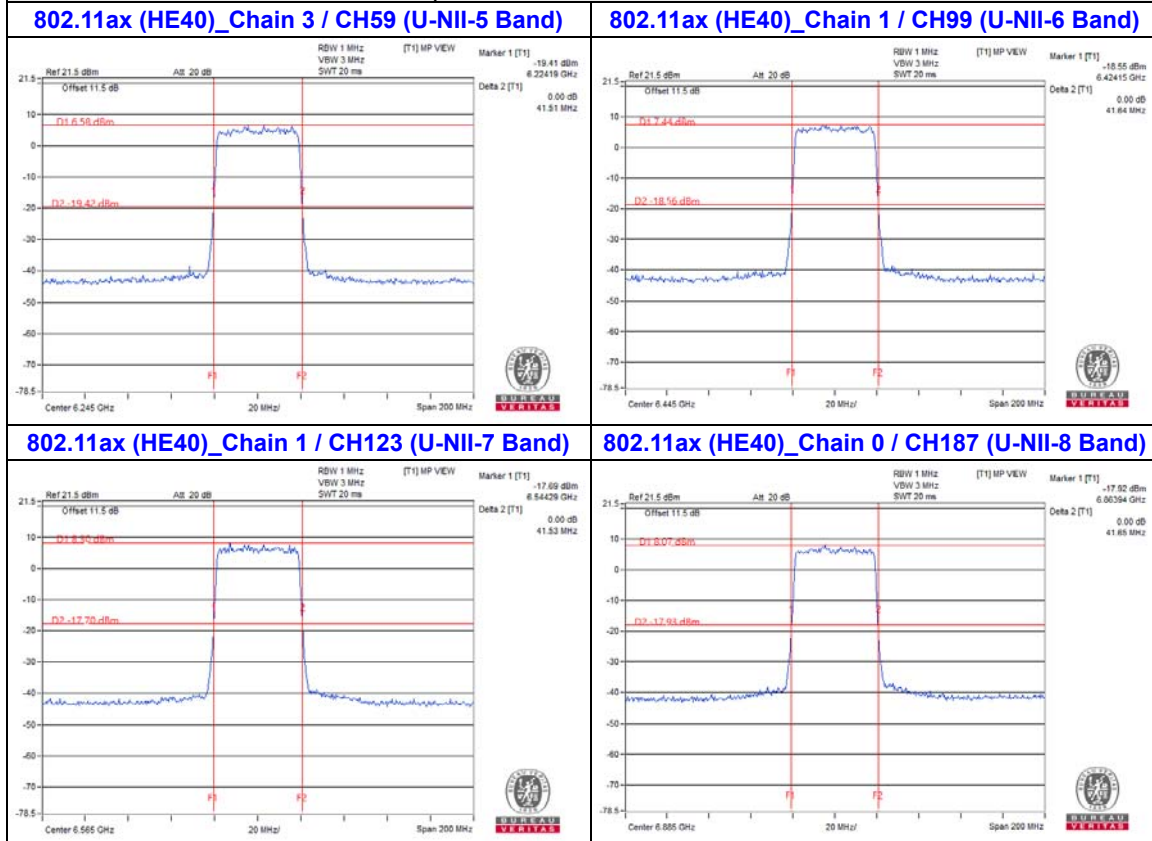
Spectrum Plot of Max. Value



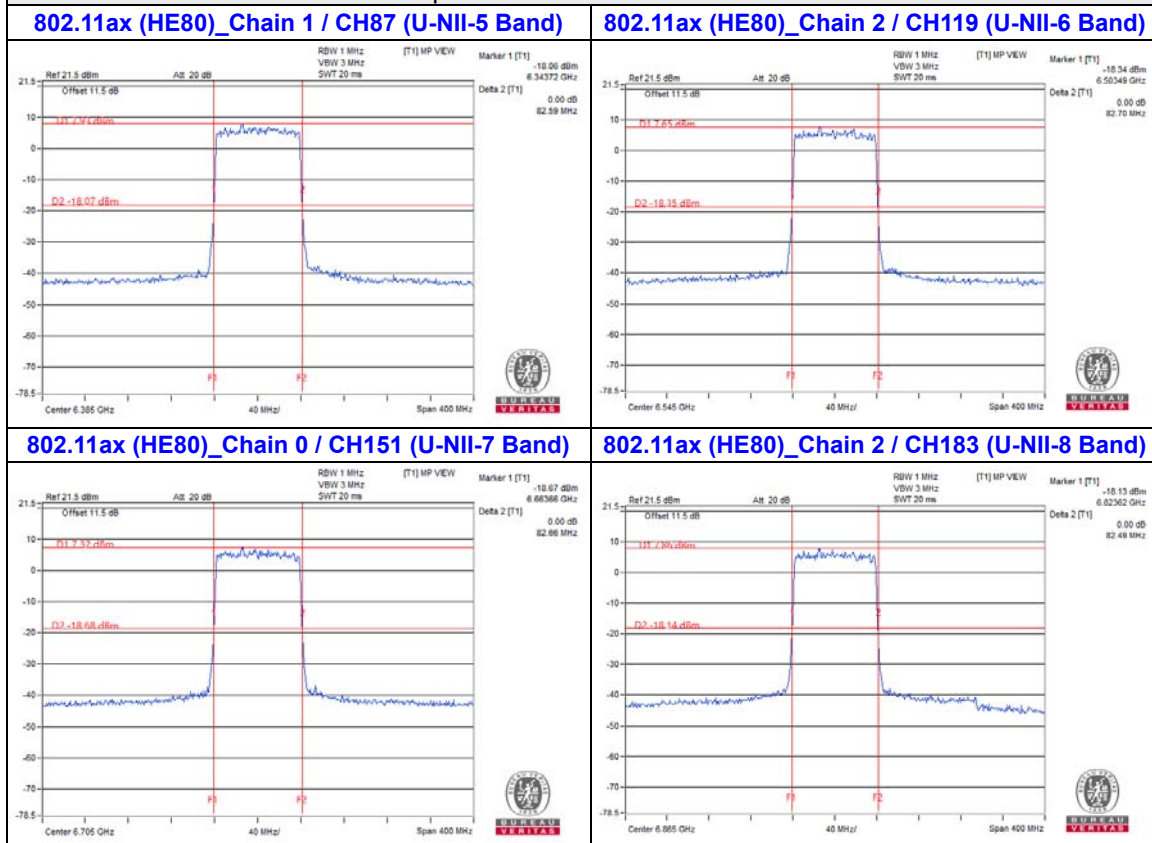
Spectrum Plot of Max. Value

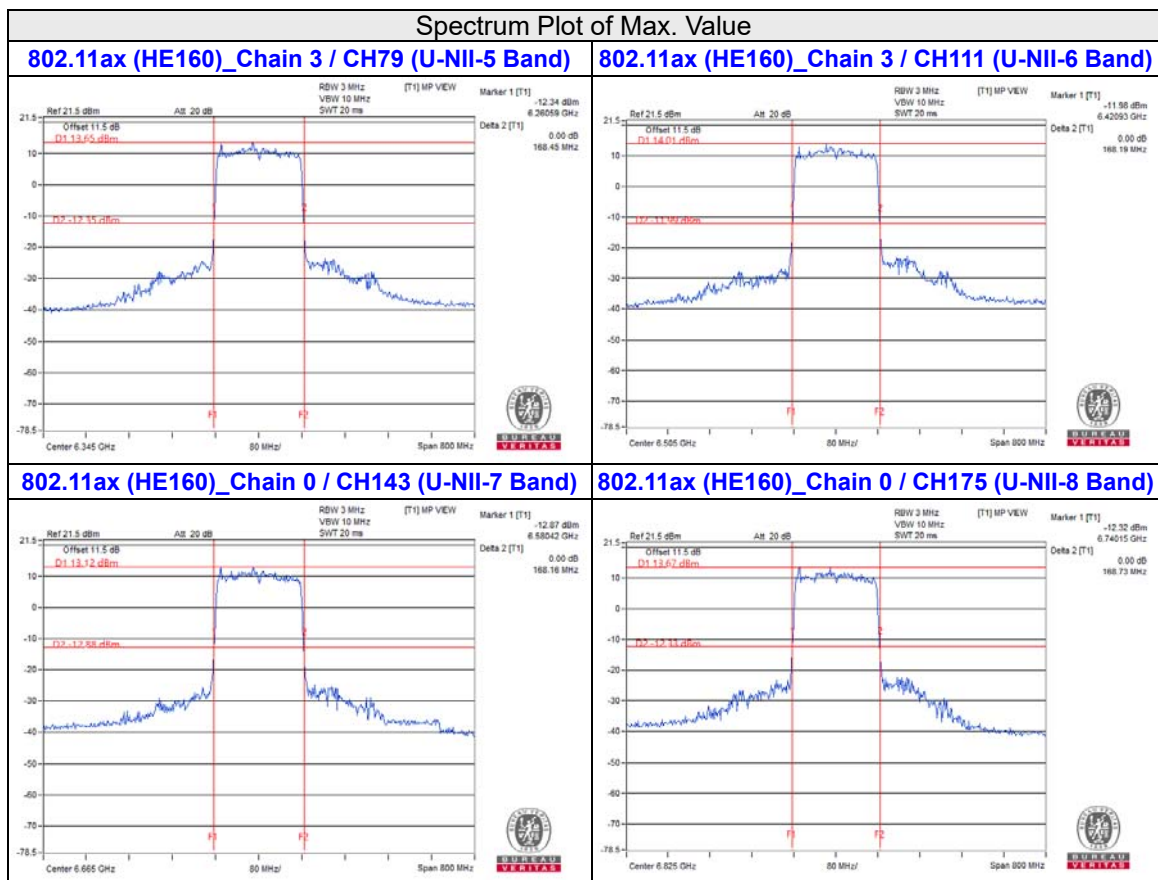


Spectrum Plot of Max. Value



Spectrum Plot of Max. Value





Beamforming Mode:

99% Occupied Bandwidth:

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	19.14	19.3	19.14	19.22	320	Pass
61	6255	19.2	19.2	19.2	19.2	320	Pass
93	6415	19.2	19.2	19.08	19.2	320	Pass
97	6435	19.2	19.2	19.2	19.2	320	Pass
105	6475	19.2	19.2	19.08	19.2	320	Pass
113	6515	19.2	19.2	19.2	19.2	320	Pass
117	6535	19.08	19.2	19.2	19.2	320	Pass
153	6715	19.2	19.2	19.2	19.2	320	Pass
181	6855	19.08	19.2	19.2	19.2	320	Pass
185	6875	19.2	19.2	19.14	19.14	320	Pass
213	7015	19.08	19.2	19.08	19.08	320	Pass
229	7095	19.08	19.2	19.08	19.2	320	Pass
233	7115	19.14	19.22	19.14	19.14	320	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
35	6125	37.92	37.68	37.92	37.92	320	Pass
59	6245	37.92	37.92	37.92	37.92	320	Pass
91	6405	37.92	37.92	37.92	37.92	320	Pass
99	6445	37.92	37.92	37.92	37.92	320	Pass
107	6485	37.92	37.92	37.92	37.92	320	Pass
115	6525	37.68	37.92	37.92	37.92	320	Pass
123	6565	37.92	37.92	37.92	37.92	320	Pass
155	6725	37.92	37.68	37.92	37.92	320	Pass
179	6845	37.68	37.92	37.92	37.92	320	Pass
187	6885	37.68	37.68	37.92	37.92	320	Pass
211	7005	37.68	37.92	37.92	37.68	320	Pass
227	7085	37.68	37.68	37.92	37.68	320	Pass

802.11ax (HE80)

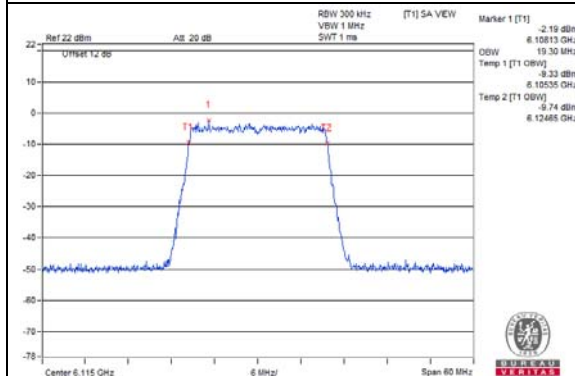
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
39	6145	77.76	77.28	77.92	76.8	320	Pass
55	6225	76.8	76.8	77.28	76.8	320	Pass
87	6385	76.8	76.8	76.8	76.8	320	Pass
103	6465	77.28	77.28	76.8	76.8	320	Pass
119	6545	77.28	76.8	76.8	77.28	320	Pass
135	6625	77.28	76.8	77.28	77.28	320	Pass
151	6705	76.8	77.28	76.8	76.8	320	Pass
167	6785	77.28	76.8	76.8	77.28	320	Pass
183	6865	77.28	77.28	77.28	77.28	320	Pass
199	6945	77.28	77.28	77.28	77.28	320	Pass
215	7025	77.28	77.28	77.28	77.28	320	Pass

802.11ax (HE160)

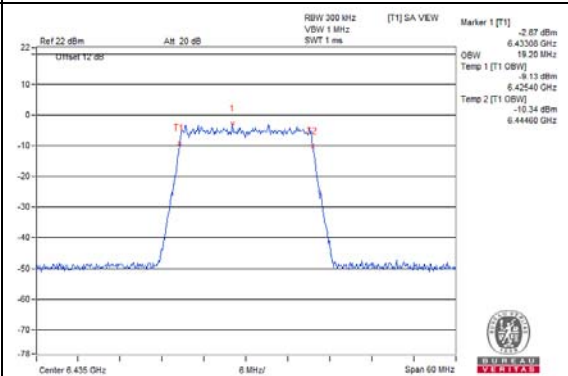
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
47	6185	155.52	155.52	156.48	155.52	320	Pass
79	6345	155.52	156.48	155.52	155.52	320	Pass
111	6505	155.52	155.52	156.48	155.52	320	Pass
143	6665	156.48	156.48	156.48	155.52	320	Pass
175	6825	154.56	156.48	155.52	155.52	320	Pass
207	6985	154.56	155.52	155.52	155.52	320	Pass

Spectrum Plot of Max. Value

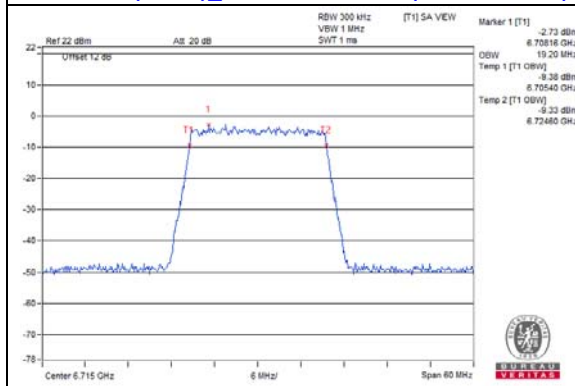
802.11ax (HE20)_Chain 1 / CH33 (U-NII-5 Band)



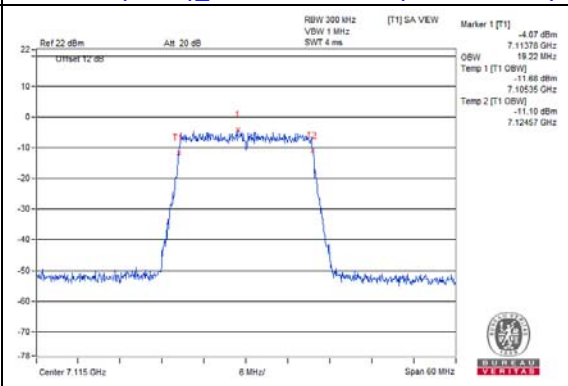
802.11ax (HE20)_Chain 0 / CH97 (U-NII-6 Band)



802.11ax (HE20)_Chain 0 / CH153 (U-NII-7 Band)

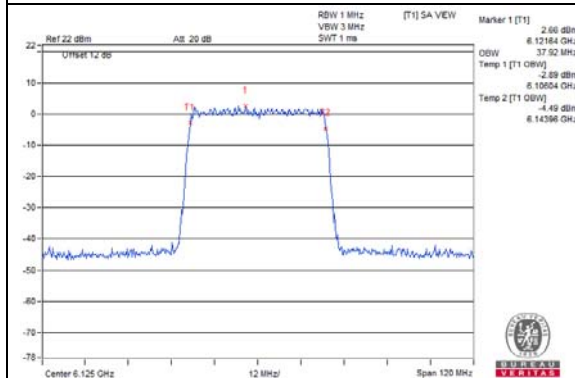


802.11ax (HE20)_Chain 1 / CH233 (U-NII-8 Band)

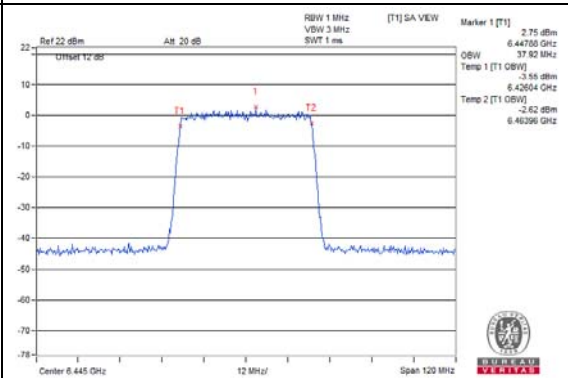


Spectrum Plot of Max. Value

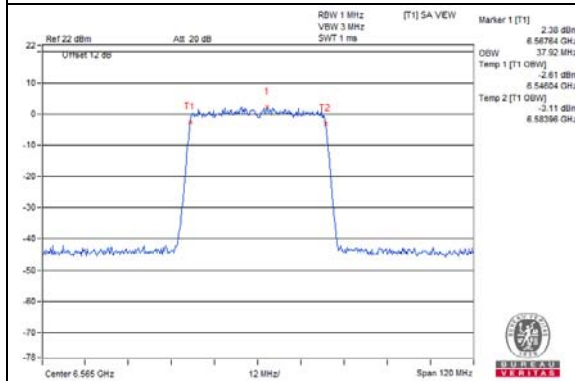
802.11ax (HE40)_Chain 0 / CH35 (U-NII-5 Band)



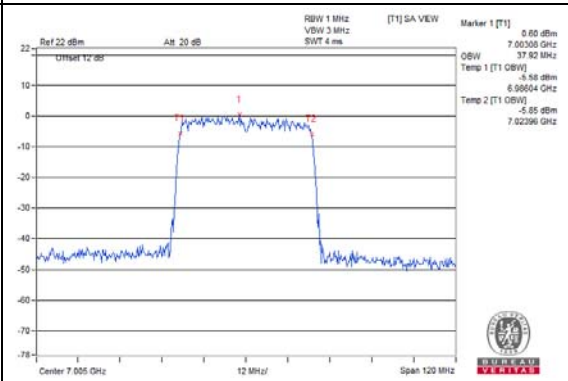
802.11ax (HE40)_Chain 0 / CH99 (U-NII-6 Band)



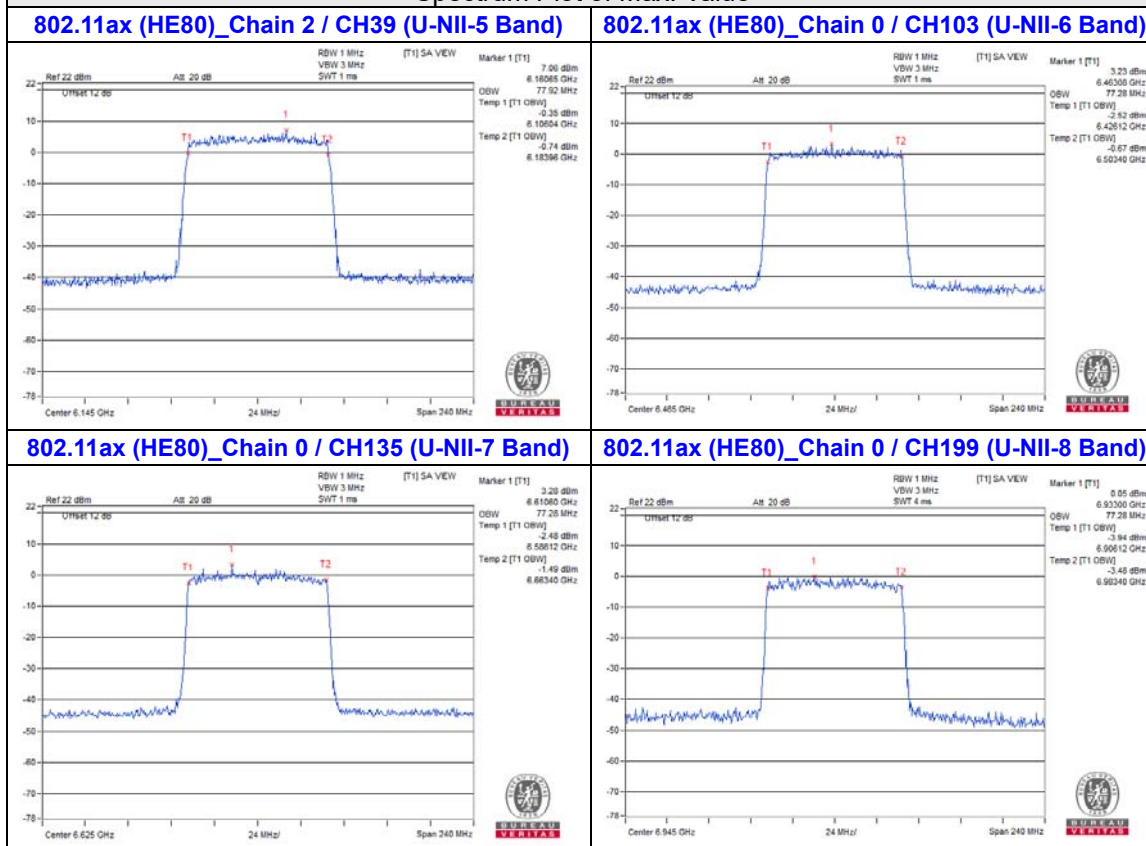
802.11ax (HE40)_Chain 0 / CH123 (U-NII-7 Band)



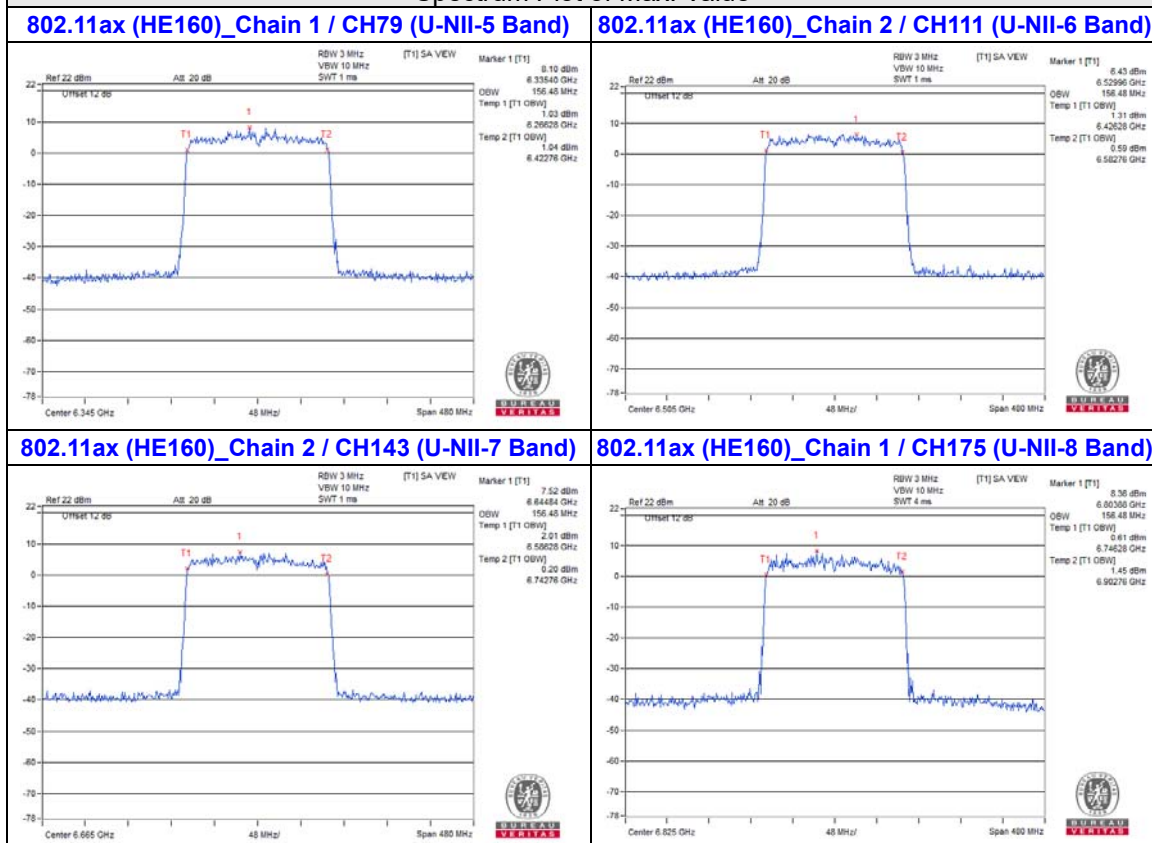
802.11ax (HE40)_Chain 2 / CH211 (U-NII-8 Band)



Spectrum Plot of Max. Value



Spectrum Plot of Max. Value



26dB Bandwidth:
802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	22.05	21.89	21.67	21.96	320	Pass
61	6255	21.96	21.74	21.73	21.98	320	Pass
93	6415	21.98	21.93	21.8	21.94	320	Pass
97	6435	22.09	21.91	21.81	21.99	320	Pass
105	6475	21.87	21.76	21.86	21.89	320	Pass
113	6515	21.91	21.88	21.67	21.85	320	Pass
117	6535	21.92	21.88	21.79	22	320	Pass
153	6715	21.95	21.87	21.79	22.09	320	Pass
181	6855	22.08	21.85	21.71	21.95	320	Pass
185	6875	21.99	21.8	21.74	21.96	320	Pass
213	7015	21.93	21.75	21.86	21.95	320	Pass
229	7095	22.02	21.96	21.81	21.95	320	Pass
233	7115	22.12	21.96	21.67	21.97	320	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
35	6125	41.32	41.4	41.3	41.61	320	Pass
59	6245	41.3	41.48	41.63	41.38	320	Pass
91	6405	41.45	41.41	41.42	41.46	320	Pass
99	6445	41.51	41.57	41.35	41.39	320	Pass
107	6485	41.39	41.43	41.3	41.52	320	Pass
115	6525	41.44	41.44	41.58	41.55	320	Pass
123	6565	41.36	41.38	41.35	41.59	320	Pass
155	6725	41.5	41.35	41.46	41.37	320	Pass
179	6845	41.56	41.29	41.61	41.46	320	Pass
187	6885	41.29	41.42	41.43	41.34	320	Pass
211	7005	41.32	41.53	41.28	41.41	320	Pass
227	7085	41.17	41.43	41.18	41.44	320	Pass

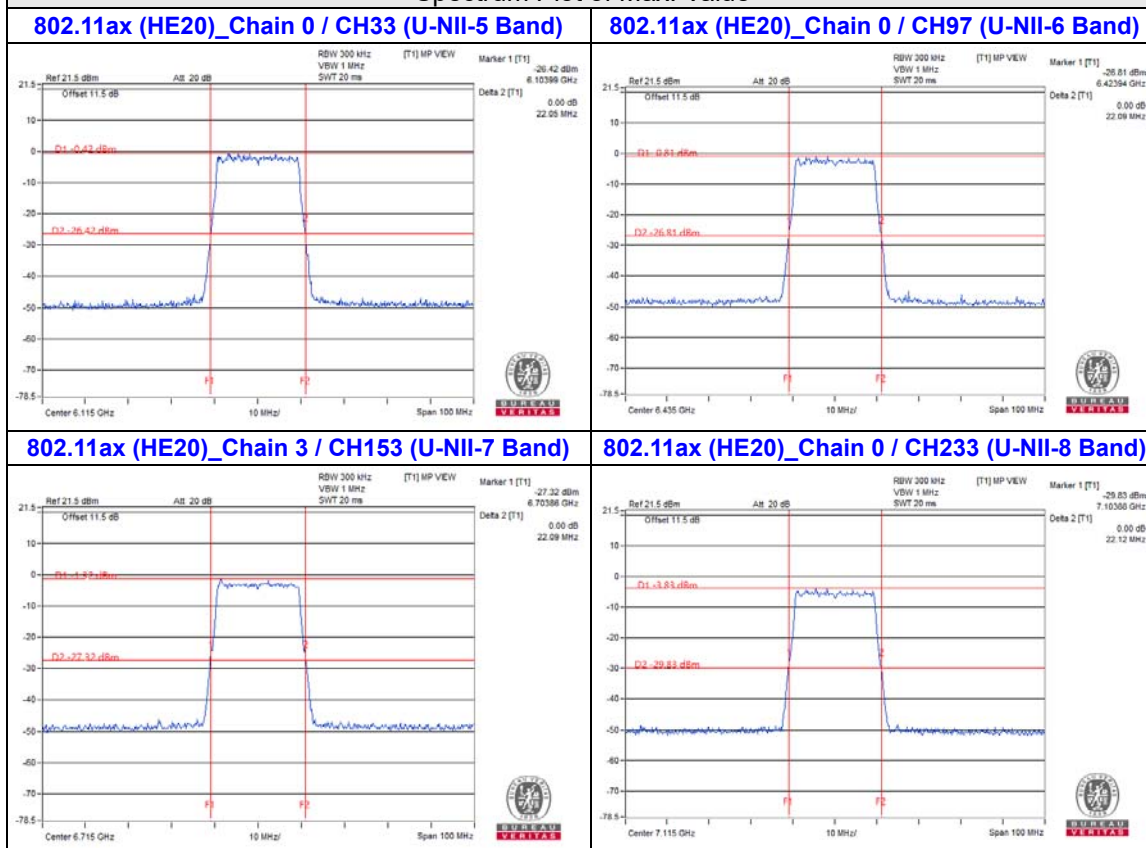
802.11ax (HE80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
39	6145	82.22	82.4	82.17	82.55	320	Pass
55	6225	82.33	82.48	82.26	82.5	320	Pass
87	6385	82.39	82.55	82.47	82.61	320	Pass
103	6465	82.27	82.5	82.51	82.33	320	Pass
119	6545	82.47	82.64	82.43	82.32	320	Pass
135	6625	82.23	82.5	82.52	82.39	320	Pass
151	6705	82.49	82.21	82.6	82.34	320	Pass
167	6785	82.53	82.18	82.53	82.45	320	Pass
183	6865	82.34	82.56	82.58	82.51	320	Pass
199	6945	82.35	82.1	82.38	82.23	320	Pass
215	7025	82.32	82.22	82.58	82.6	320	Pass

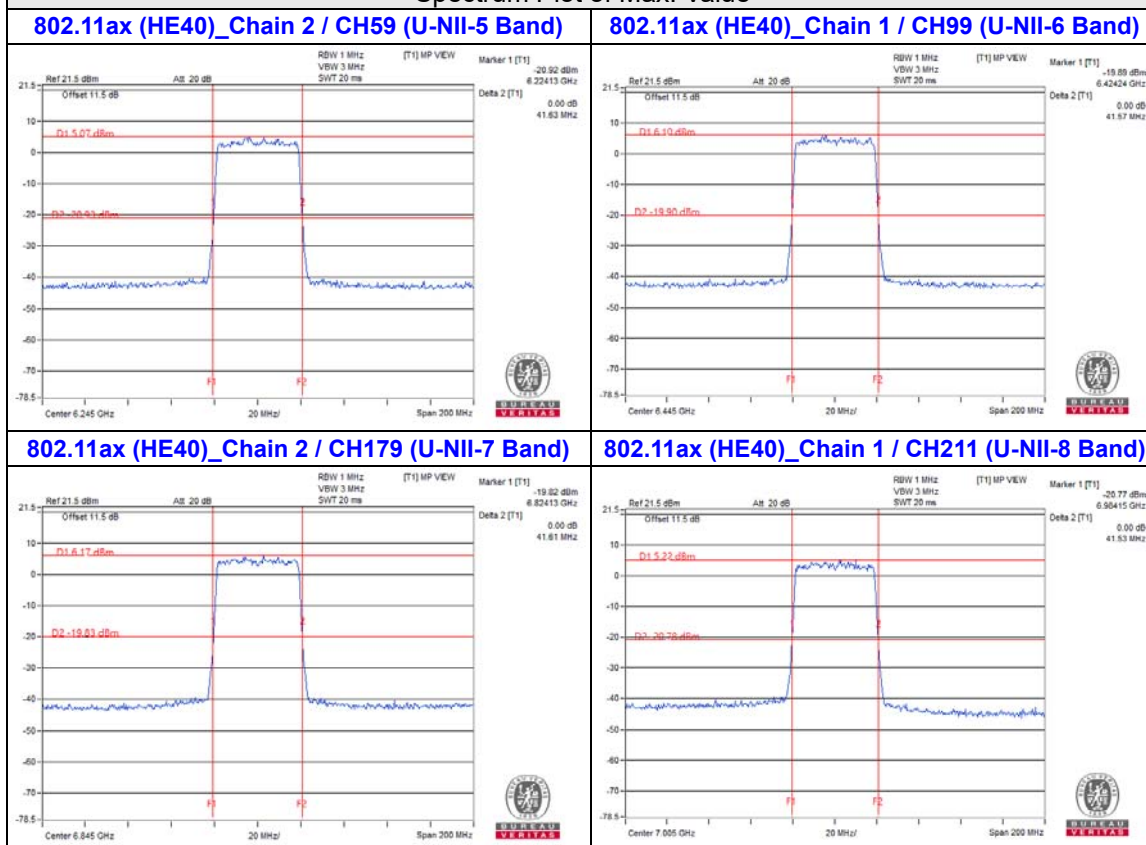
802.11ax (HE160)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
47	6185	167.62	168.14	167.25	167.5	320	Pass
79	6345	167.6	167.46	167.38	167.61	320	Pass
111	6505	168.67	167.45	166.78	167.18	320	Pass
143	6665	167.84	167.09	166.62	167.04	320	Pass
175	6825	168.09	168.13	167.19	167.66	320	Pass
207	6985	167.27	167.15	166.09	167.24	320	Pass

Spectrum Plot of Max. Value

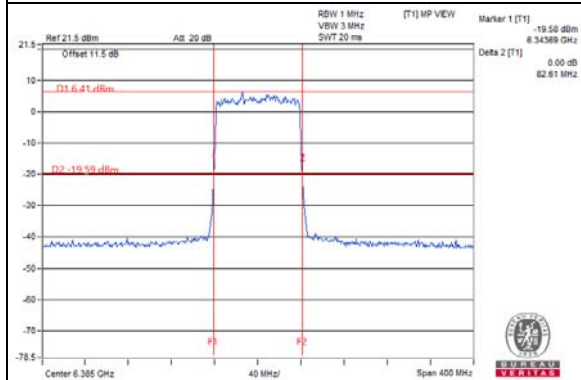


Spectrum Plot of Max. Value

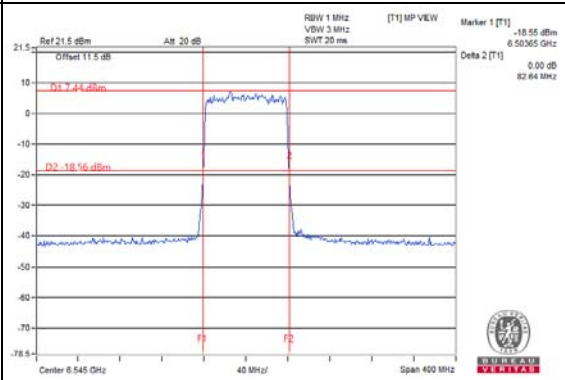


Spectrum Plot of Max. Value

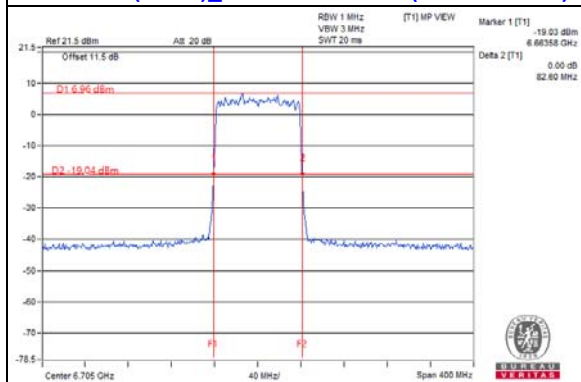
802.11ax (HE80)_Chain 3 / CH87 (U-NII-5 Band)



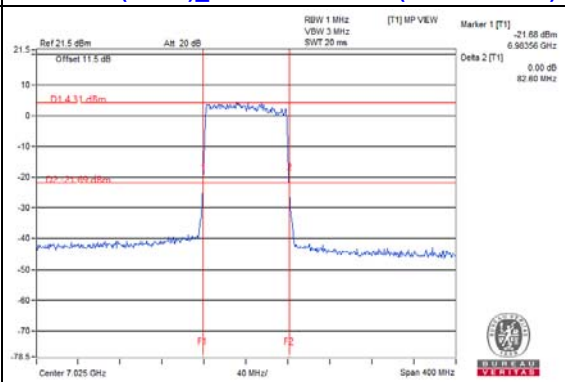
802.11ax (HE80)_Chain 1 / CH119 (U-NII-6 Band)



802.11ax (HE80)_Chain 2 / CH151 (U-NII-7 Band)

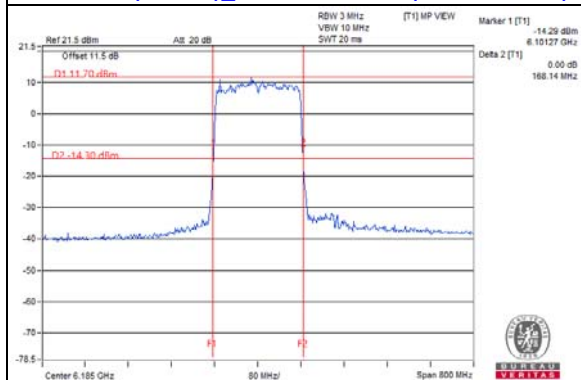


802.11ax (HE80)_Chain 3 / CH215 (U-NII-8 Band)

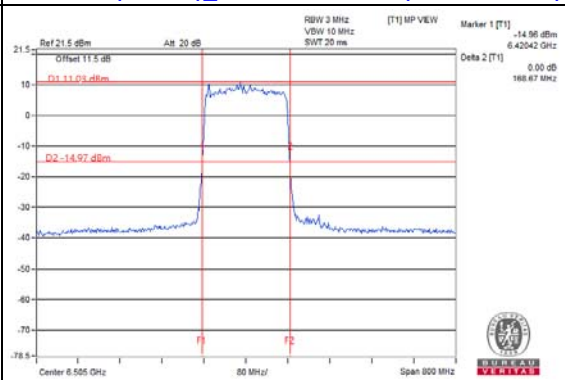


Spectrum Plot of Max. Value

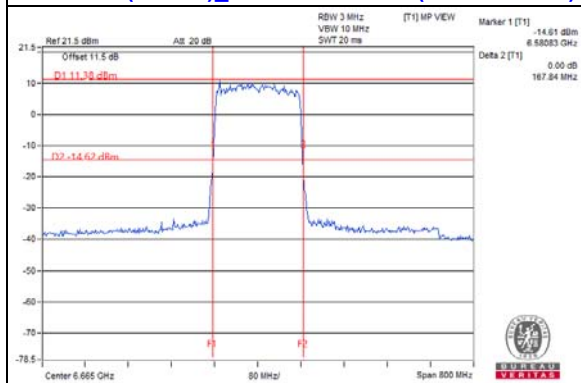
802.11ax (HE160)_Chain 1 / CH47 (U-NII-5 Band)



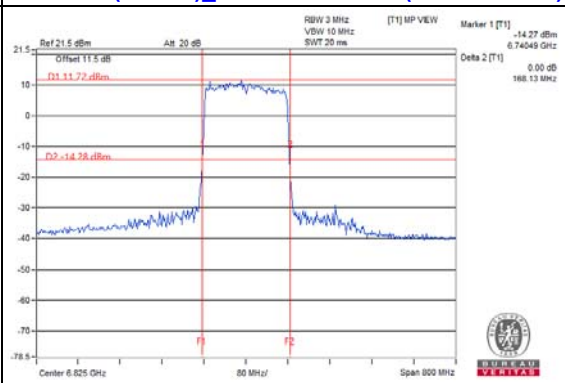
802.11ax (HE160)_Chain 0 / CH111 (U-NII-6 Band)



802.11ax (HE160)_Chain 0 / CH143 (U-NII-7 Band)



802.11ax (HE160)_Chain 1 / CH175 (U-NII-8 Band)



4.5.6 Test Results (Mode 2)

SDM Mode:

99% Occupied Bandwidth:

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	19.14	19.05	19.13	19.05	320	Pass
61	6255	19.2	18.96	19.08	19.2	320	Pass
93	6415	19.2	19.08	19.2	19.08	320	Pass
97	6435	19.2	19.08	19.2	19.08	320	Pass
105	6475	19.2	19.08	19.2	19.08	320	Pass
113	6515	19.2	19.08	19.2	19.08	320	Pass
117	6535	19.2	19.08	19.2	18.96	320	Pass
153	6715	19.2	19.08	19.2	19.2	320	Pass
181	6855	19.2	19.2	19.2	19.05	320	Pass
185	6875	19.08	18.96	19.08	19.2	320	Pass
213	7015	19.08	19.08	19.2	19.08	320	Pass
229	7095	19.05	19.14	19.14	19.05	320	Pass
233	7115	19.2	19.2	19.08	19.2	320	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
35	6125	37.92	37.92	37.92	37.92	320	Pass
59	6245	37.92	37.68	37.92	37.92	320	Pass
91	6405	37.92	37.68	37.92	37.92	320	Pass
99	6445	37.68	37.68	37.92	37.92	320	Pass
107	6485	37.92	37.68	37.92	37.92	320	Pass
115	6525	37.92	37.92	38.6	37.92	320	Pass
123	6565	37.92	37.68	38.16	37.92	320	Pass
155	6725	37.92	37.92	37.68	37.92	320	Pass
179	6845	37.92	37.68	38.16	37.92	320	Pass
187	6885	37.92	37.68	38.16	37.92	320	Pass
211	7005	37.92	37.92	37.68	37.68	320	Pass
227	7085	37.68	37.68	37.92	37.92	320	Pass

802.11ax (HE80)

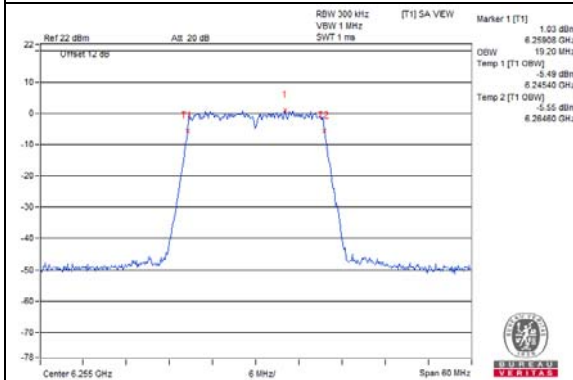
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
39	6145	77.28	76.8	76.8	78.26	320	Pass
55	6225	76.8	76.8	76.8	77.28	320	Pass
87	6385	77.28	76.8	76.8	76.8	320	Pass
103	6465	77.28	76.8	77.28	77.28	320	Pass
119	6545	77.28	77.28	77.28	77.28	320	Pass
135	6625	76.8	77.28	76.8	77.28	320	Pass
151	6705	77.28	76.8	77.28	77.28	320	Pass
167	6785	76.8	77.28	76.8	77.28	320	Pass
183	6865	77.28	77.28	76.8	77.28	320	Pass
199	6945	77.28	77.28	76.8	77.28	320	Pass
215	7025	77.28	77.28	76.8	77.28	320	Pass

802.11ax (HE160)

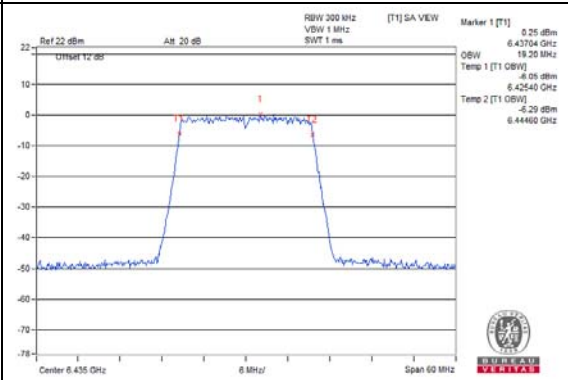
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
47	6185	155.52	155.52	155.52	155.52	320	Pass
79	6345	155.52	155.52	155.52	155.52	320	Pass
111	6505	155.52	155.52	156.48	155.52	320	Pass
143	6665	155.52	156.48	156.48	156.48	320	Pass
175	6825	156.48	156.48	156.48	156.48	320	Pass
207	6985	155.52	155.52	156.48	155.52	320	Pass

Spectrum Plot of Max. Value

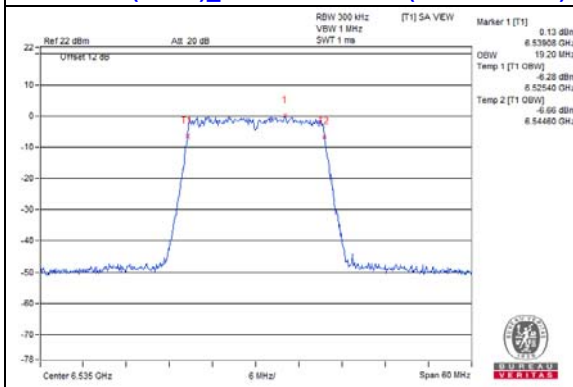
802.11ax (HE20)_Chain 0 / CH61 (U-NII-5 Band)



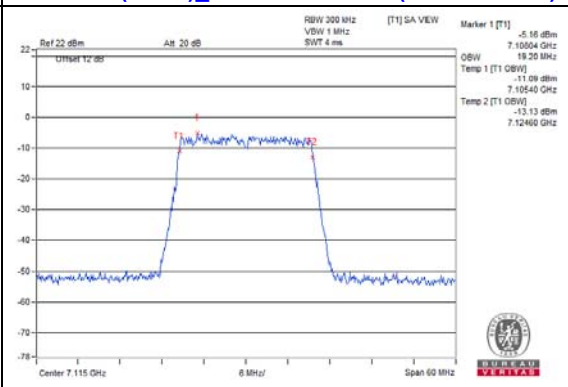
802.11ax (HE20)_Chain 0 / CH97 (U-NII-6 Band)



802.11ax (HE20)_Chain 0 / CH117 (U-NII-7 Band)

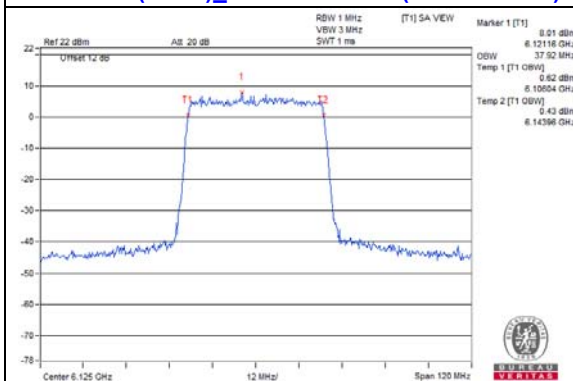


802.11ax (HE20)_Chain 0 / CH233 (U-NII-8 Band)

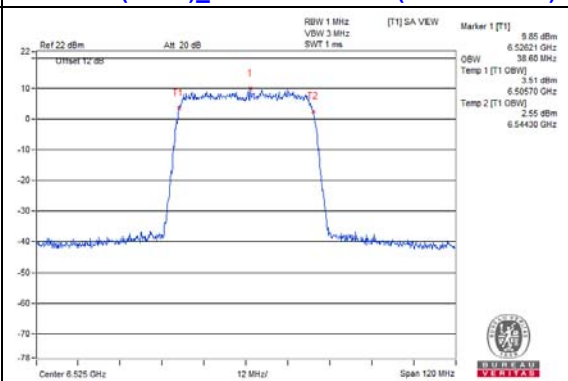


Spectrum Plot of Max. Value

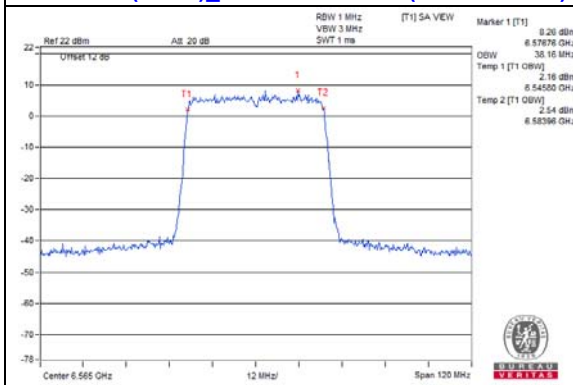
802.11ax (HE40)_Chain 0 / CH35 (U-NII-5 Band)



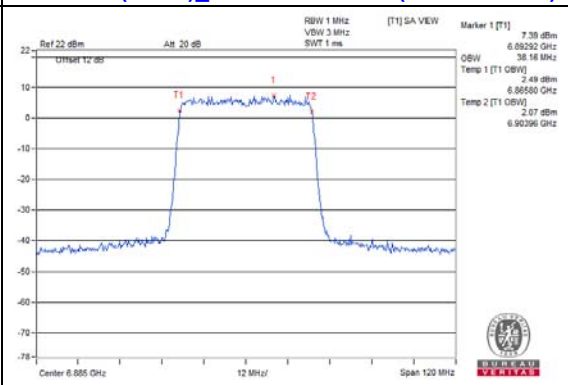
802.11ax (HE40)_Chain 2 / CH115 (U-NII-6 Band)



802.11ax (HE40)_Chain 2 / CH123 (U-NII-7 Band)

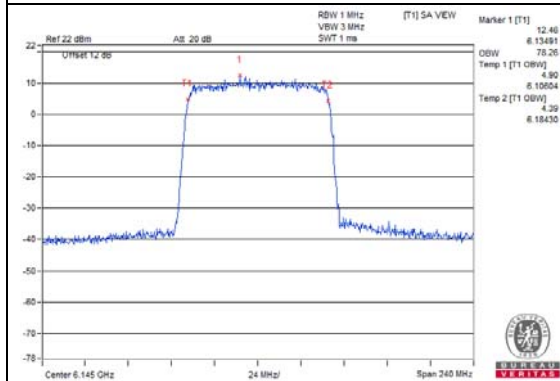


802.11ax (HE40)_Chain 2 / CH187 (U-NII-8 Band)

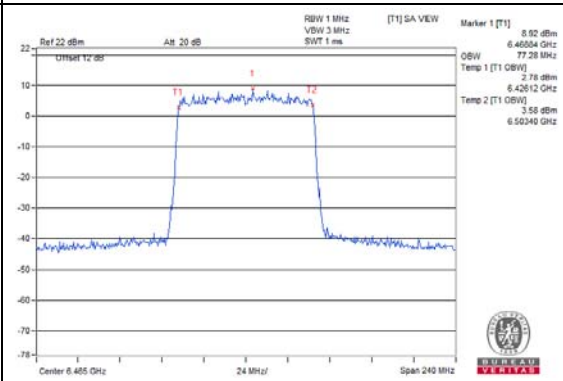


Spectrum Plot of Max. Value

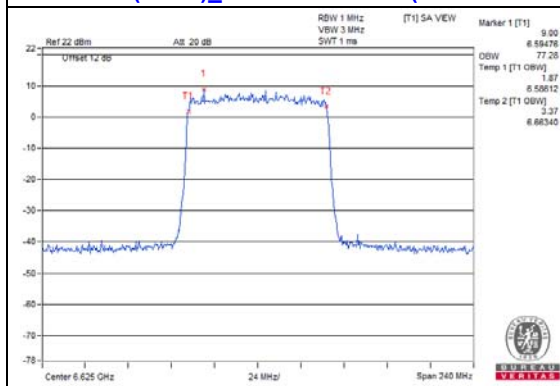
802.11ax (HE80)_Chain 3 / CH39 (U-NII-5 Band)



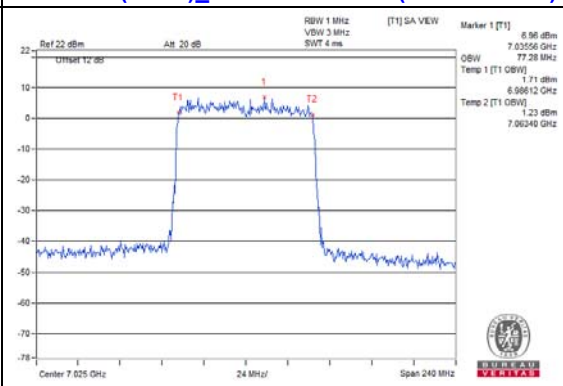
802.11ax (HE80)_Chain 3 / CH103 (U-NII-6 Band)



802.11ax (HE80)_Chain 3 / CH135 (U-NII-7 Band)

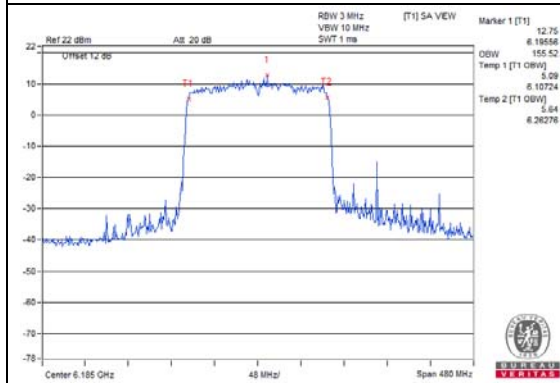


802.11ax (HE80)_Chain 3 / CH215 (U-NII-8 Band)

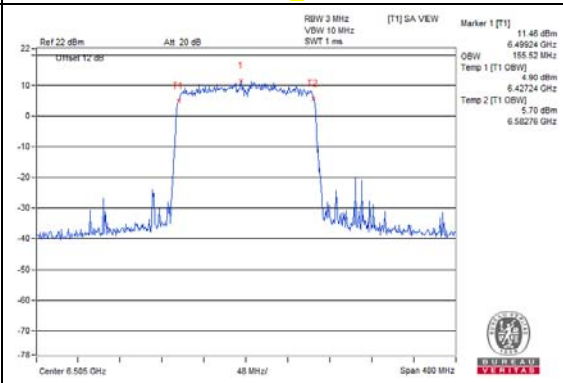


Spectrum Plot of Max. Value

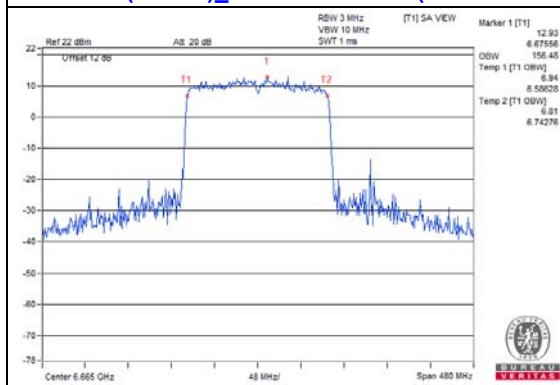
802.11ax (HE160)_Chain 0 / CH47 (U-NII-5 Band)



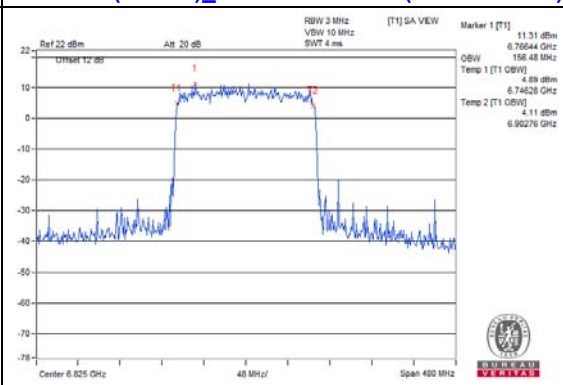
802.11ax (HE160)_Chain 0 / CH111 (U-NII-6 Band)



802.11ax (HE160)_Chain 1 / CH143 (U-NII-7 Band)



802.11ax (HE160)_Chain 0 / CH175 (U-NII-8 Band)



26dB Bandwidth:
802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	21.92	21.77	21.98	21.94	320	Pass
61	6255	21.95	21.86	21.95	21.94	320	Pass
93	6415	22.03	21.79	21.95	21.82	320	Pass
97	6435	22.02	21.74	22.02	22	320	Pass
105	6475	21.92	21.86	22.02	21.96	320	Pass
113	6515	22.03	21.79	21.92	21.8	320	Pass
117	6535	21.96	21.84	21.91	22	320	Pass
153	6715	21.92	21.82	22	21.94	320	Pass
181	6855	21.98	21.74	22.01	21.96	320	Pass
185	6875	21.93	21.77	21.9	22.02	320	Pass
213	7015	22.04	21.78	21.92	21.72	320	Pass
229	7095	22.01	21.83	22.03	21.77	320	Pass
233	7115	21.96	21.83	22	21.95	320	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
35	6125	41.27	41.36	41.55	41.45	320	Pass
59	6245	41.27	41.35	41.38	41.48	320	Pass
91	6405	41.21	41.33	41.47	41.38	320	Pass
99	6445	41.26	41.4	41.46	41.47	320	Pass
107	6485	41.2	41.38	41.44	41.39	320	Pass
115	6525	41.14	41.41	41.41	41.56	320	Pass
123	6565	41.14	41.43	41.37	41.52	320	Pass
155	6725	41.19	41.32	41.49	41.62	320	Pass
179	6845	41.15	41.22	41.48	41.48	320	Pass
187	6885	41.32	41.28	41.43	41.43	320	Pass
211	7005	41.07	41.19	41.17	41.43	320	Pass
227	7085	41.19	41.38	41.35	41.36	320	Pass

802.11ax (HE80)

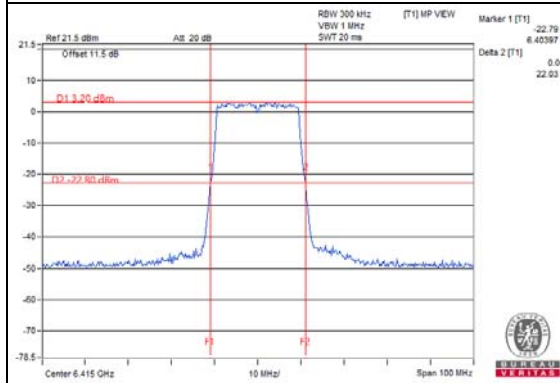
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
39	6145	82.34	82.42	82.35	82.34	320	Pass
55	6225	82.41	82.39	82.38	82.86	320	Pass
87	6385	82.29	82.63	82.31	82.71	320	Pass
103	6465	82.14	82.38	82.33	82.42	320	Pass
119	6545	82.34	82.31	82.47	82.53	320	Pass
135	6625	82.32	82.56	82.53	82.44	320	Pass
151	6705	82.08	82.32	82.57	82.51	320	Pass
167	6785	82.38	82.42	82.47	82.45	320	Pass
183	6865	82.2	82.81	82.27	82.32	320	Pass
199	6945	82.08	82.25	82.49	82.62	320	Pass
215	7025	82.49	82.75	82.3	82.45	320	Pass

802.11ax (HE160)

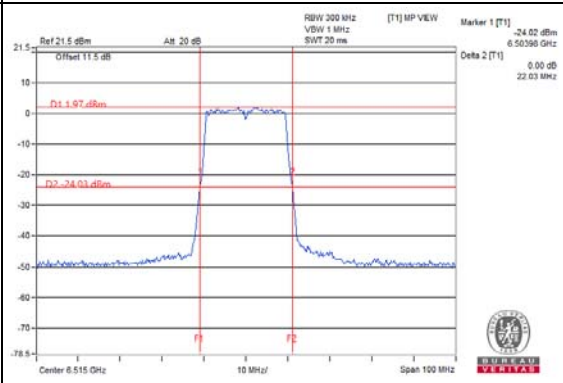
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
47	6185	168.11	265.46	282.6	283.42	320	Pass
79	6345	227.53	261.19	230.03	276.44	320	Pass
111	6505	167.81	249.96	262.9	264.45	320	Pass
143	6665	168.08	254.48	168.72	265.36	320	Pass
175	6825	168.74	272.28	220.05	207.79	320	Pass
207	6985	166.59	262.1	177.29	273.58	320	Pass

Spectrum Plot of Max. Value

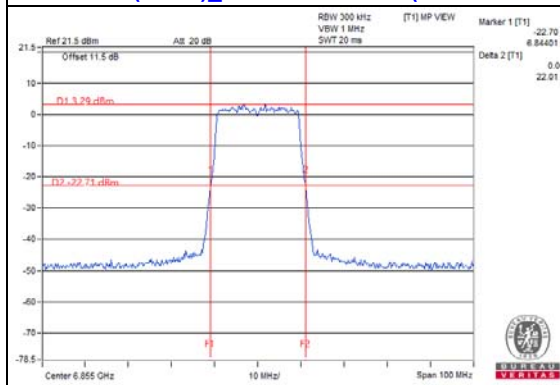
802.11ax (HE20)_Chain 0 / CH93 (U-NII-5 Band)



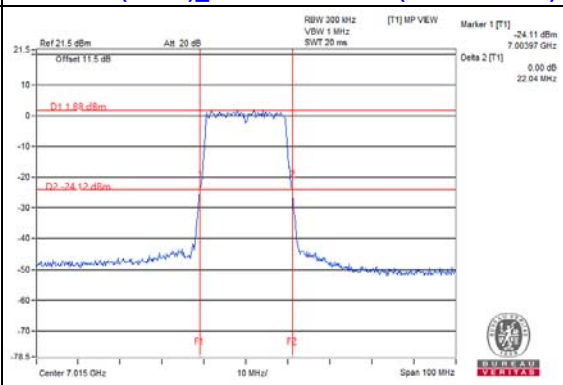
802.11ax (HE20)_Chain 0 / CH113 (U-NII-6 Band)



802.11ax (HE20)_Chain 2 / CH181 (U-NII-7 Band)

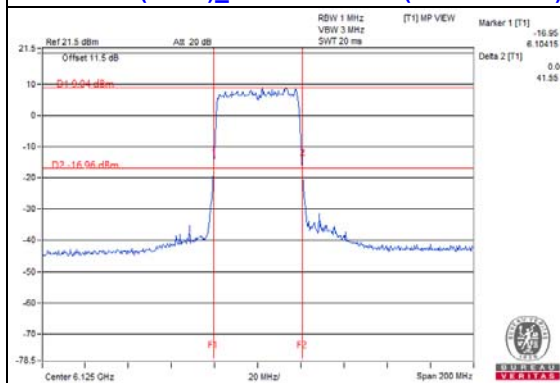


802.11ax (HE20)_Chain 0 / CH213 (U-NII-8 Band)

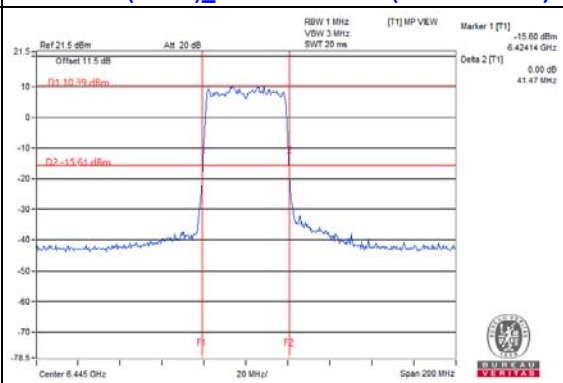


Spectrum Plot of Max. Value

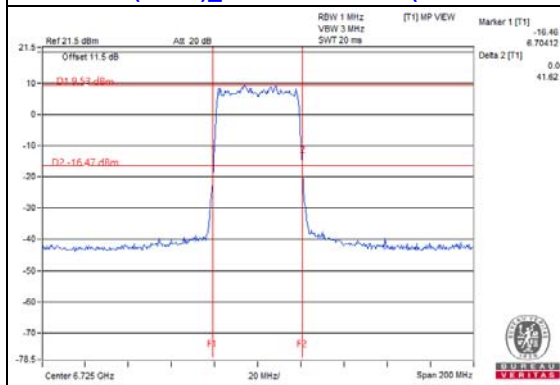
802.11ax (HE40)_Chain 2 / CH35 (U-NII-5 Band)



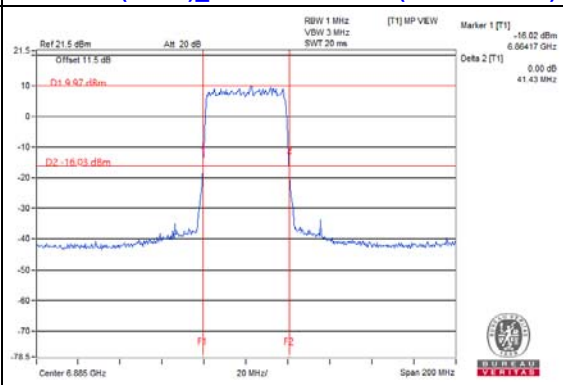
802.11ax (HE40)_Chain 3 / CH99 (U-NII-6 Band)



802.11ax (HE40)_Chain 3 / CH155 (U-NII-7 Band)

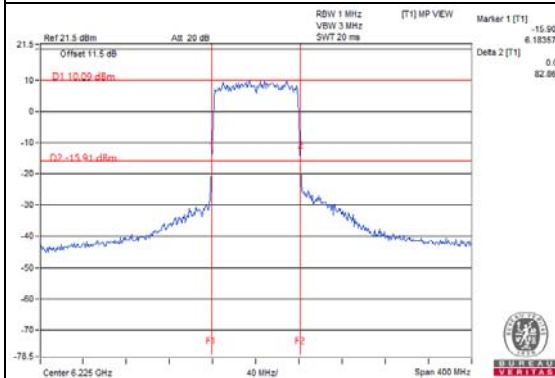


802.11ax (HE40)_Chain 2 / CH187 (U-NII-8 Band)

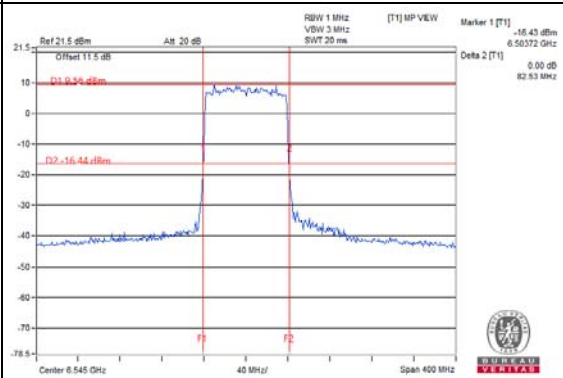


Spectrum Plot of Max. Value

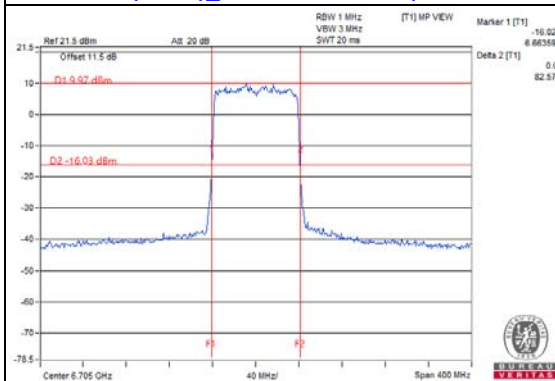
802.11ax (HE80)_Chain 3 / CH55 (U-NII-5 Band)



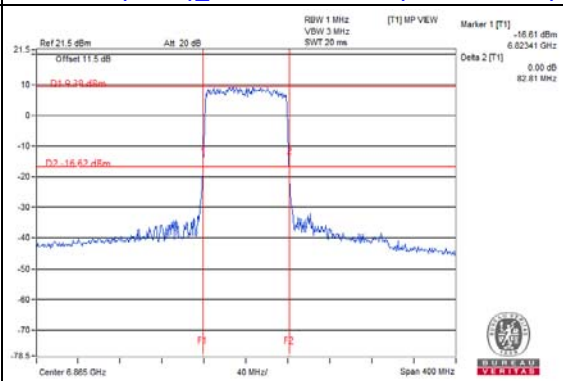
802.11ax (HE80)_Chain 3 / CH119 (U-NII-6 Band)



802.11ax (HE80)_Chain 2 / CH151 (U-NII-7 Band)

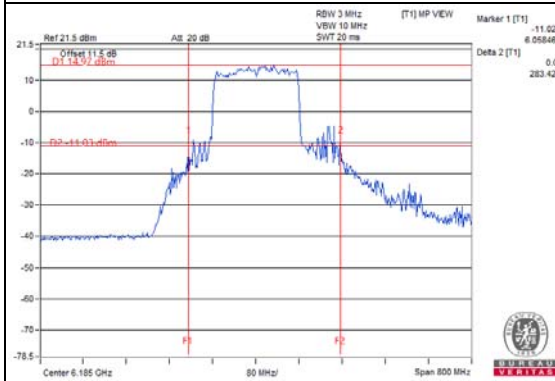


802.11ax (HE80)_Chain 1 / CH183 (U-NII-8 Band)

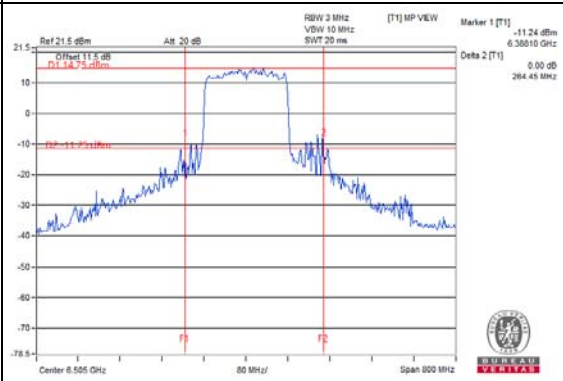


Spectrum Plot of Max. Value

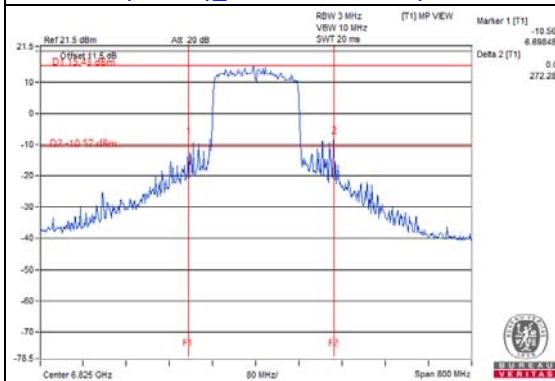
802.11ax (HE160)_Chain 3 / CH47 (U-NII-5 Band)



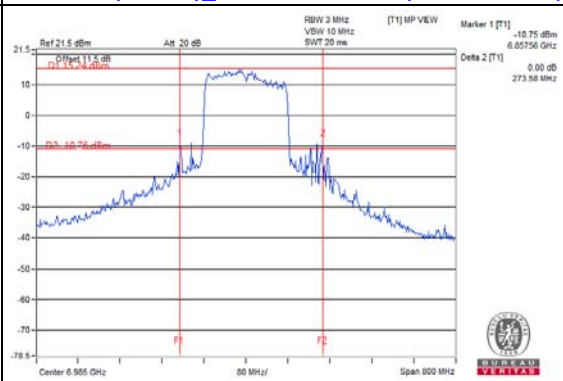
802.11ax (HE160)_Chain 3 / CH111 (U-NII-6 Band)



802.11ax (HE160)_Chain 1 / CH175 (U-NII-7 Band)



802.11ax (HE160)_Chain 3 / CH207 (U-NII-8 Band)



Beamforming Mode:

99% Occupied Bandwidth:

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	19.14	19.05	19.13	19.05	320	Pass
61	6255	19.2	18.96	19.08	19.2	320	Pass
93	6415	19.2	19.08	19.2	19.08	320	Pass
97	6435	19.2	19.08	19.2	19.08	320	Pass
105	6475	19.2	19.08	19.2	19.08	320	Pass
113	6515	19.2	19.08	19.2	19.08	320	Pass
117	6535	19.2	19.08	19.2	18.96	320	Pass
153	6715	19.2	19.08	19.2	19.2	320	Pass
181	6855	19.2	19.2	19.2	19.05	320	Pass
185	6875	19.08	18.96	19.08	19.2	320	Pass
213	7015	19.08	19.08	19.2	19.08	320	Pass
229	7095	19.05	19.14	19.14	19.05	320	Pass
233	7115	19.2	19.2	19.08	19.2	320	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
35	6125	37.92	37.92	37.92	37.92	320	Pass
59	6245	37.92	37.68	37.92	37.92	320	Pass
91	6405	37.92	37.68	37.92	37.92	320	Pass
99	6445	37.68	37.68	37.92	37.92	320	Pass
107	6485	37.92	37.68	37.92	37.92	320	Pass
115	6525	37.92	37.92	38.6	37.92	320	Pass
123	6565	37.92	37.68	38.16	37.92	320	Pass
155	6725	37.92	37.92	37.68	37.92	320	Pass
179	6845	37.92	37.68	38.16	37.92	320	Pass
187	6885	37.92	37.68	38.16	37.92	320	Pass
211	7005	37.92	37.92	37.68	37.68	320	Pass
227	7085	37.68	37.68	37.92	37.92	320	Pass

802.11ax (HE80)

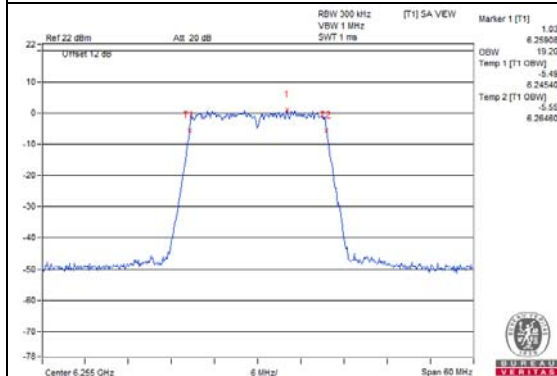
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
39	6145	77.28	76.8	76.8	78.26	320	Pass
55	6225	76.8	76.8	76.8	77.28	320	Pass
87	6385	77.28	76.8	76.8	76.8	320	Pass
103	6465	77.28	76.8	77.28	77.28	320	Pass
119	6545	77.28	77.28	77.28	77.28	320	Pass
135	6625	76.8	77.28	76.8	77.28	320	Pass
151	6705	77.28	76.8	77.28	77.28	320	Pass
167	6785	76.8	77.28	76.8	77.28	320	Pass
183	6865	77.28	77.28	76.8	77.28	320	Pass
199	6945	77.28	77.28	76.8	77.28	320	Pass
215	7025	77.28	77.28	76.8	77.28	320	Pass

802.11ax (HE160)

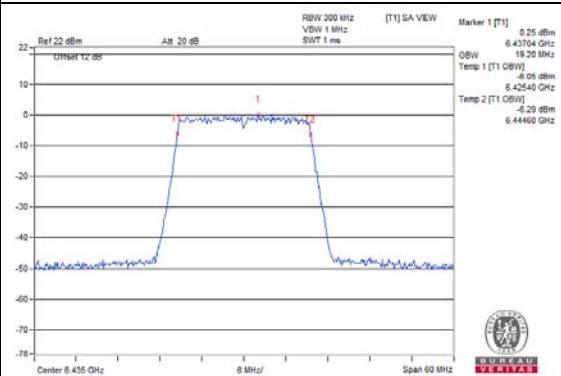
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
47	6185	155.52	155.52	155.52	155.52	320	Pass
79	6345	155.52	155.52	155.52	155.52	320	Pass
111	6505	155.52	155.52	156.48	155.52	320	Pass
143	6665	155.52	156.48	156.48	156.48	320	Pass
175	6825	156.48	156.48	156.48	156.48	320	Pass
207	6985	155.52	155.52	156.48	155.52	320	Pass

Spectrum Plot of Max. Value

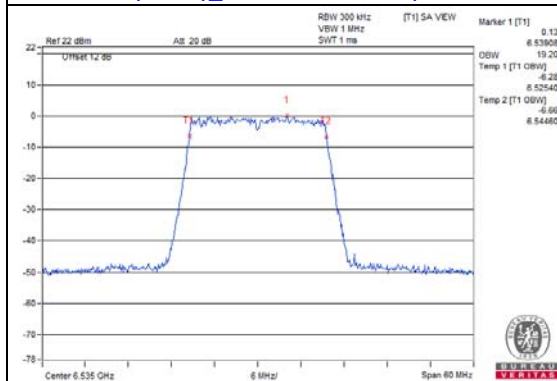
802.11ax (HE20)_Chain 0 / CH61 (U-NII-5 Band)



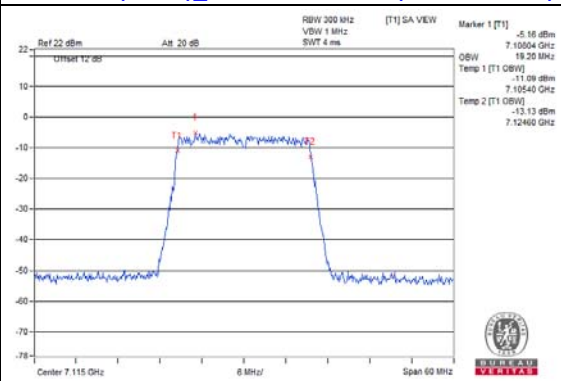
802.11ax (HE20)_Chain 0 / CH97 (U-NII-6 Band)



802.11ax (HE20)_Chain 0 / CH117 (U-NII-7 Band)

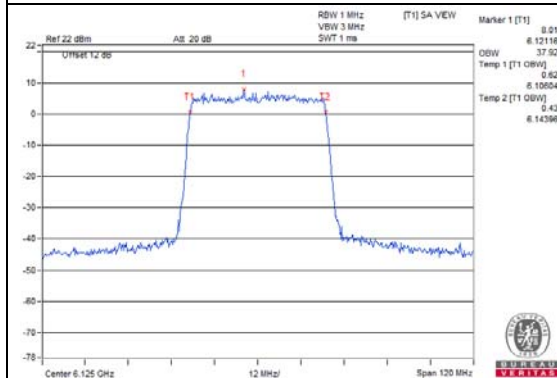


802.11ax (HE20)_Chain 0 / CH233 (U-NII-8 Band)

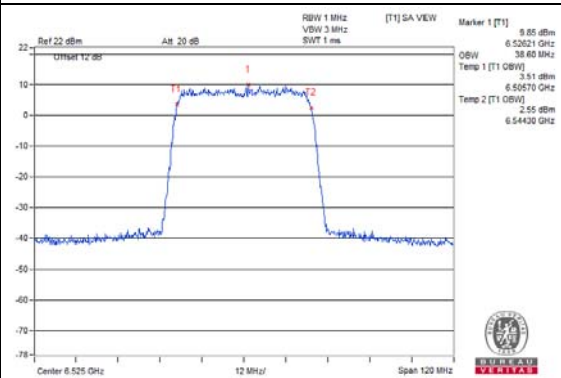


Spectrum Plot of Max. Value

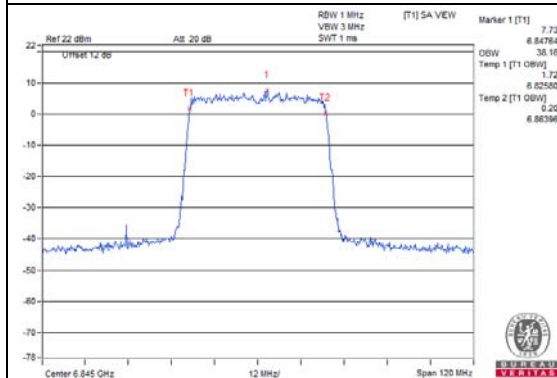
802.11ax (HE40)_Chain 0 / CH35 (U-NII-5 Band)



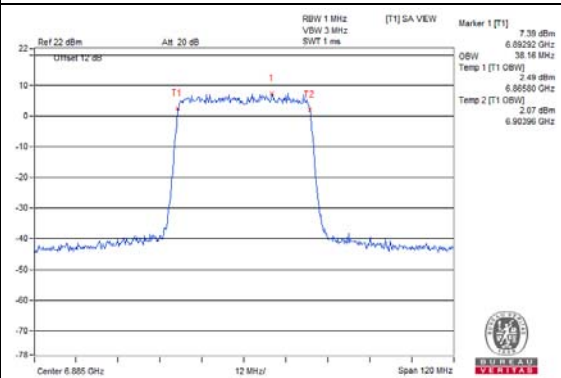
802.11ax (HE40)_Chain 2 / CH115 (U-NII-6 Band)



802.11ax (HE40)_Chain 2 / CH179 (U-NII-7 Band)

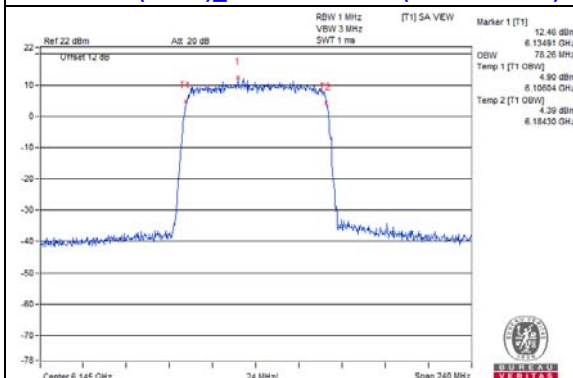


802.11ax (HE40)_Chain 2 / CH187 (U-NII-8 Band)

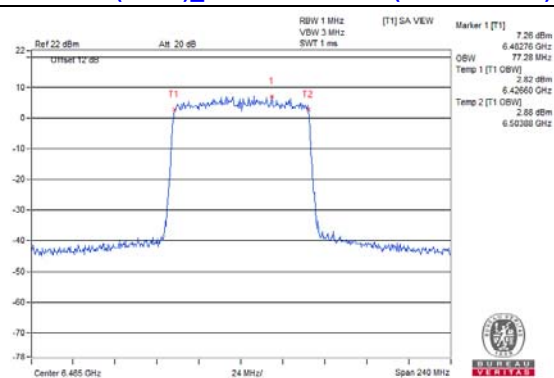


Spectrum Plot of Max. Value

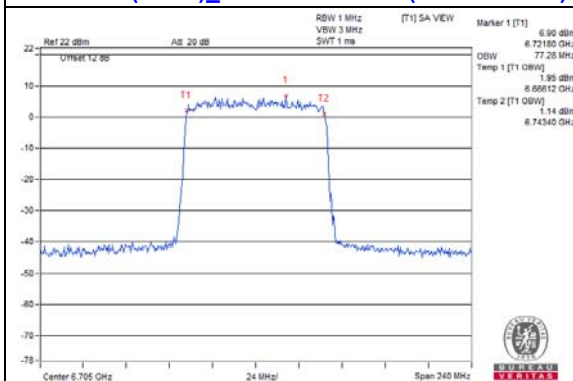
802.11ax (HE80)_Chain 3 / CH39 (U-NII-5 Band)



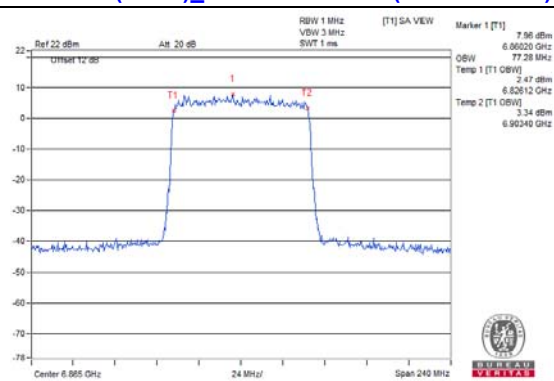
802.11ax (HE80)_Chain 0 / CH103 (U-NII-6 Band)



802.11ax (HE80)_Chain 0 / CH151 (U-NII-7 Band)

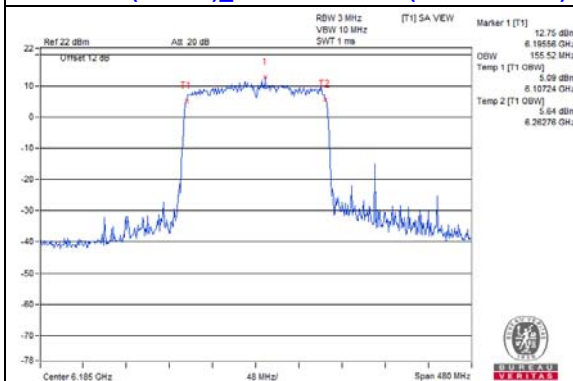


802.11ax (HE80)_Chain 0 / CH183 (U-NII-8 Band)

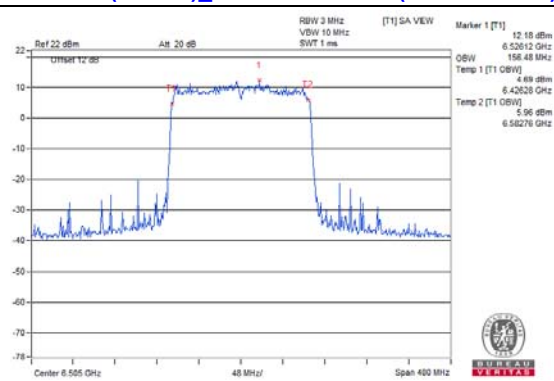


Spectrum Plot of Max. Value

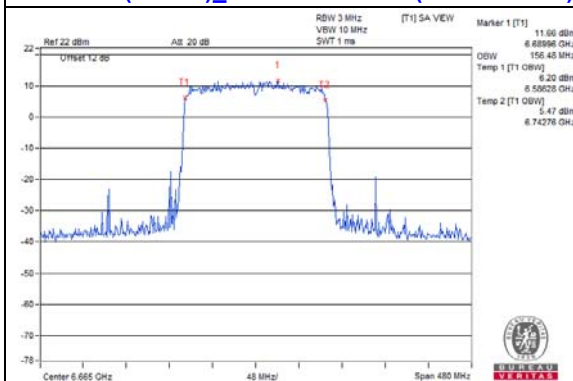
802.11ax (HE160)_Chain 0 / CH47 (U-NII-5 Band)



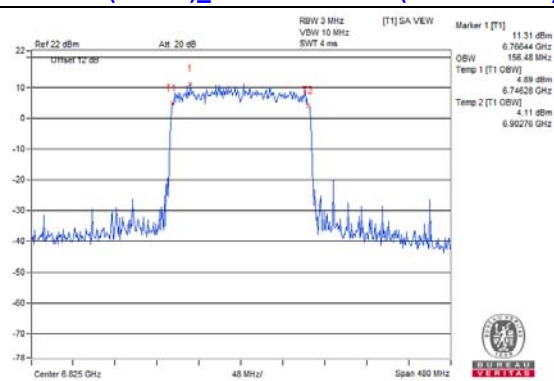
802.11ax (HE160)_Chain 2 / CH111 (U-NII-6 Band)



802.11ax (HE160)_Chain 1 / CH143 (U-NII-7 Band)



802.11ax (HE160)_Chain 0 / CH175 (U-NII-8 Band)



26dB Bandwidth:
802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
33	6115	21.93	21.79	21.83	21.92	320	Pass
61	6255	21.92	21.83	21.91	21.86	320	Pass
93	6415	21.93	21.86	21.93	21.87	320	Pass
97	6435	21.97	21.74	22.04	21.96	320	Pass
105	6475	21.93	21.76	21.94	22.02	320	Pass
113	6515	21.99	21.85	22.03	21.96	320	Pass
117	6535	21.97	21.86	22	21.98	320	Pass
153	6715	21.97	21.87	22	21.98	320	Pass
181	6855	21.98	21.82	21.98	22.2	320	Pass
185	6875	21.98	21.8	21.92	22.01	320	Pass
213	7015	21.74	21.66	21.88	21.83	320	Pass
229	7095	21.94	21.67	21.94	21.88	320	Pass
233	7115	21.92	21.8	21.97	21.79	320	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
35	6125	41.09	41.39	41.55	41.4	320	Pass
59	6245	41.21	41.45	41.64	41.29	320	Pass
91	6405	41.24	41.37	41.61	41.5	320	Pass
99	6445	41.2	41.37	41.51	41.34	320	Pass
107	6485	41.24	41.32	41.33	41.58	320	Pass
115	6525	41.18	41.38	41.38	41.53	320	Pass
123	6565	41.13	41.41	41.43	41.5	320	Pass
155	6725	41.1	41.43	41.45	41.46	320	Pass
179	6845	41.21	41.33	41.29	41.52	320	Pass
187	6885	41.22	41.28	41.51	41.5	320	Pass
211	7005	41.24	41.3	41.51	41.08	320	Pass
227	7085	41.09	41.44	41.33	41.43	320	Pass

802.11ax (HE80)

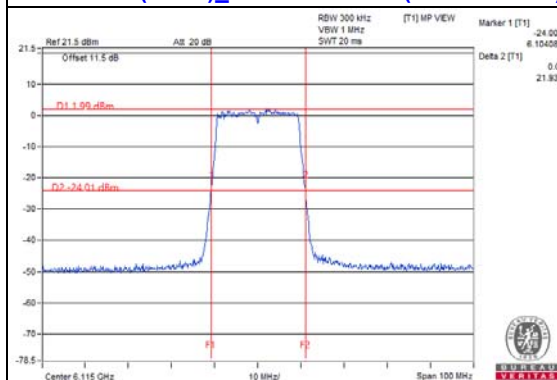
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
39	6145	82.86	82.28	82.25	82.46	320	Pass
55	6225	82.73	82.52	82.31	82.24	320	Pass
87	6385	82.82	82.33	82.37	82.92	320	Pass
103	6465	83.03	82.67	82.42	82.38	320	Pass
119	6545	82.89	82.43	82.21	82.42	320	Pass
135	6625	83.02	82.64	82.2	82.48	320	Pass
151	6705	83.27	82.44	82.46	82.29	320	Pass
167	6785	82.91	82.56	82.33	82.47	320	Pass
183	6865	82.78	82.38	82.1	82.84	320	Pass
199	6945	82.75	82.34	82.41	82.36	320	Pass
215	7025	82.14	82.56	82.25	82.4	320	Pass

802.11ax (HE160)

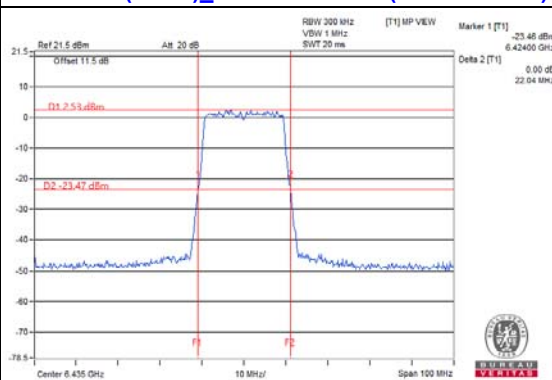
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
47	6185	274.12	264.03	275.18	264.96	320	Pass
79	6345	282.59	261.54	220.46	275.88	320	Pass
111	6505	220.36	264.05	220.61	238.83	320	Pass
143	6665	263.66	260.94	168.6	275.65	320	Pass
175	6825	266.13	247.3	174.76	168.65	320	Pass
207	6985	228.17	261.23	167.03	261.26	320	Pass

Spectrum Plot of Max. Value

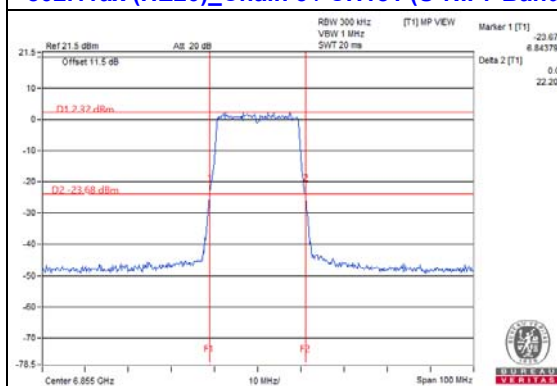
802.11ax (HE20)_Chain 0 / CH33 (U-NII-5 Band)



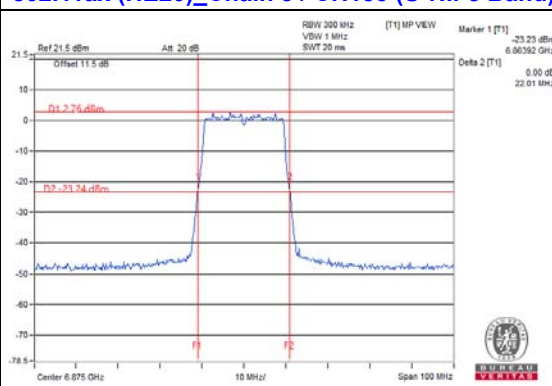
802.11ax (HE20)_Chain 2 / CH97 (U-NII-6 Band)



802.11ax (HE20)_Chain 3 / CH181 (U-NII-7 Band)

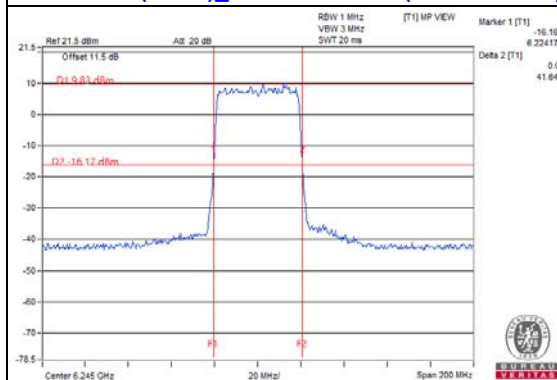


802.11ax (HE20)_Chain 3 / CH185 (U-NII-8 Band)

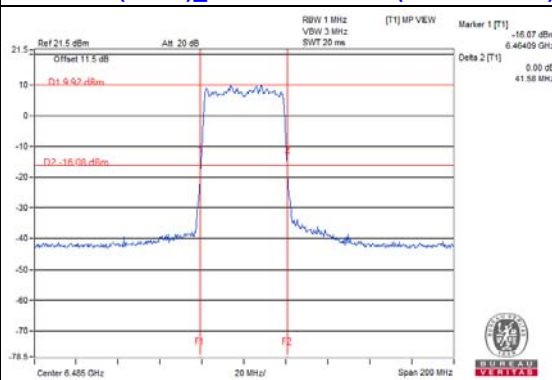


Spectrum Plot of Max. Value

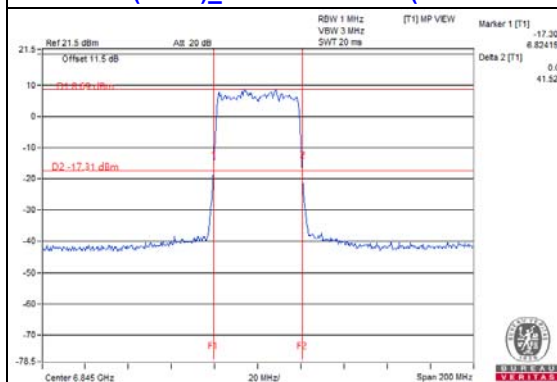
802.11ax (HE40)_Chain 2 / CH59 (U-NII-5 Band)



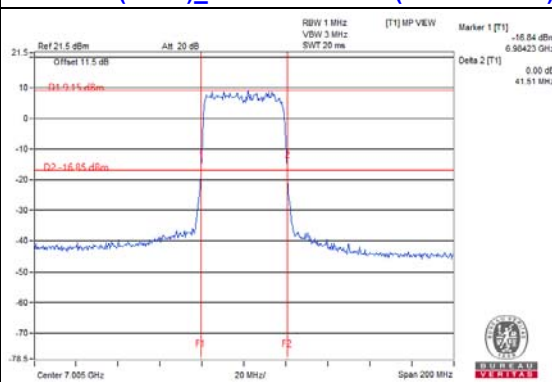
802.11ax (HE40)_Chain 3 / CH107 (U-NII-6 Band)



802.11ax (HE40)_Chain 3 / CH179 (U-NII-7 Band)

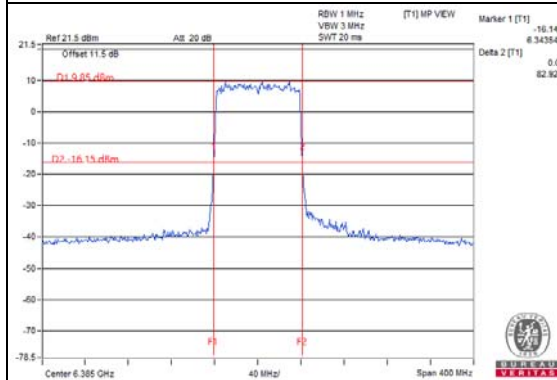


802.11ax (HE40)_Chain 2 / CH211 (U-NII-8 Band)

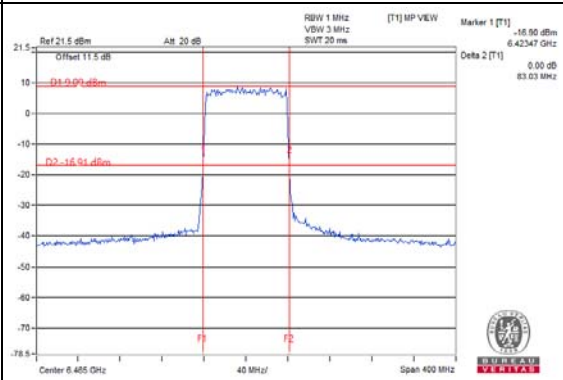


Spectrum Plot of Max. Value

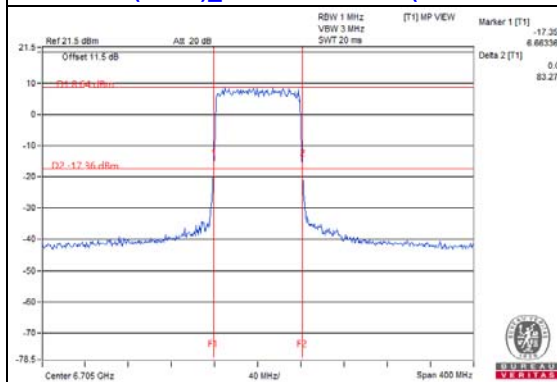
802.11ax (HE80)_Chain 3 / CH87 (U-NII-5 Band)



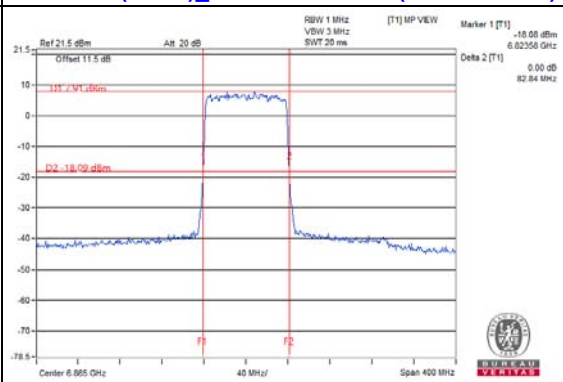
802.11ax (HE80)_Chain 0 / CH103 (U-NII-6 Band)



802.11ax (HE80)_Chain 0 / CH151 (U-NII-7 Band)

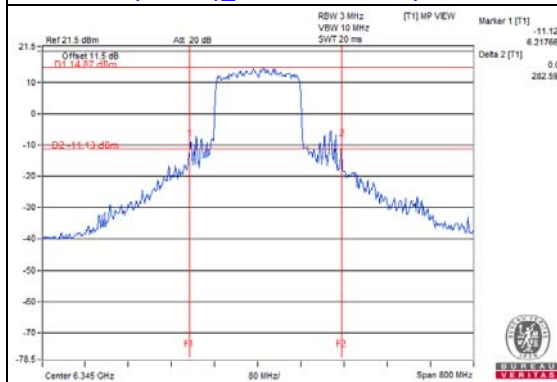


802.11ax (HE80)_Chain 3 / CH183 (U-NII-8 Band)

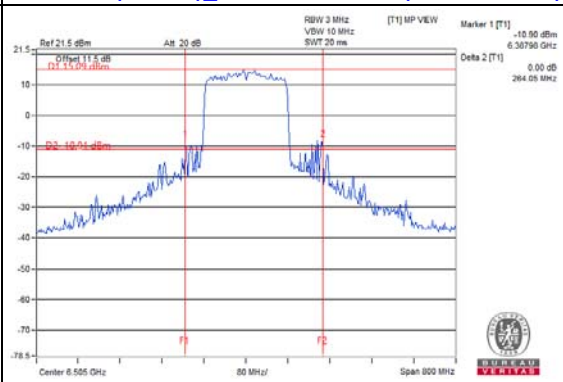


Spectrum Plot of Max. Value

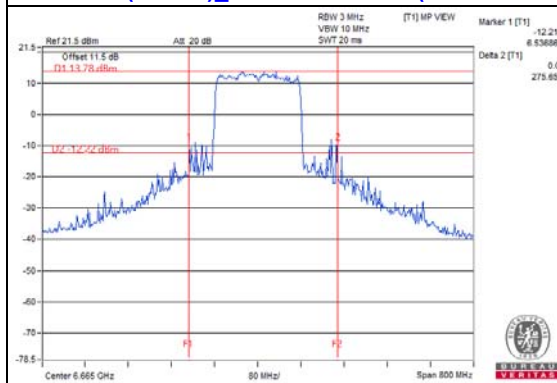
802.11ax (HE160)_Chain 0 / CH79 (U-NII-5 Band)



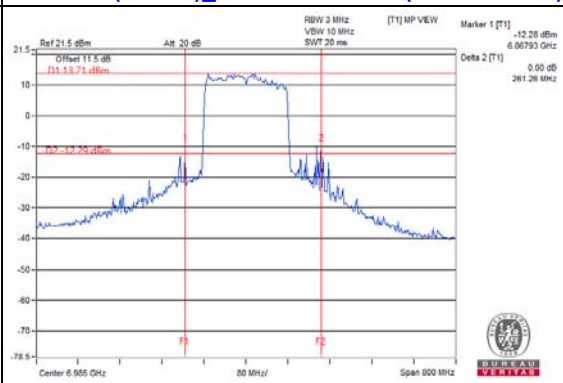
802.11ax (HE160)_Chain 1 / CH111 (U-NII-6 Band)



802.11ax (HE160)_Chain 3 / CH143 (U-NII-7 Band)



802.11ax (HE160)_Chain 3 / CH207 (U-NII-8 Band)



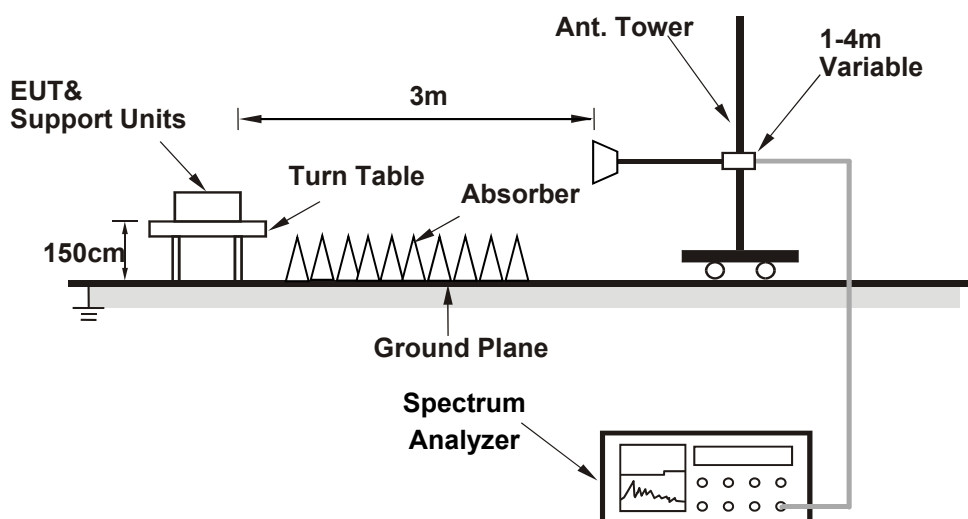
4.6 Peak Power Spectral Density Measurement

4.6.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category	Limit
		Peak Power Density (EIRP)
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	5 dBm/MHz

4.6.2 Test Setup

For Radiation Method



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

For Radiation Method

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.
- e. Follow ANSI 63.10 section 9.5, EIRP Value (dBm) = Field Strength Value (dB μ V/m) + Correction Factor @ 3m.
- f. Correction Factor (dB) @ 3m = $20\log(D) - 104.7$; where D is the measurement distance @3m=-95.15dB

4.6.5 EUT Operating Condition

Same as Item 4.3.6.

4.6.6 Test Results (Mode 1)

CDD Mode:

802.11a

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
33	6115	99.83	-95.15	4.68	5.00	Pass
61	6255	99.90	-95.15	4.75	5.00	Pass
93	6415	99.78	-95.15	4.63	5.00	Pass
97	6435	99.69	-95.15	4.54	5.00	Pass
105	6475	99.78	-95.15	4.63	5.00	Pass
113	6515	99.86	-95.15	4.71	5.00	Pass
117	6535	99.67	-95.15	4.52	5.00	Pass
153	6715	100.02	-95.15	4.87	5.00	Pass
181	6855	99.97	-95.15	4.82	5.00	Pass
185	6875	100.03	-95.15	4.88	5.00	Pass
213	7015	99.90	-95.15	4.75	5.00	Pass
233	7115	99.98	-95.15	4.83	5.00	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
33	6115	99.98	-95.15	4.83	5.00	Pass
61	6255	99.82	-95.15	4.67	5.00	Pass
93	6415	99.87	-95.15	4.72	5.00	Pass
97	6435	99.68	-95.15	4.53	5.00	Pass
105	6475	99.89	-95.15	4.74	5.00	Pass
113	6515	99.99	-95.15	4.84	5.00	Pass
117	6535	99.72	-95.15	4.57	5.00	Pass
153	6715	99.92	-95.15	4.77	5.00	Pass
181	6855	100.04	-95.15	4.89	5.00	Pass
185	6875	100.01	-95.15	4.86	5.00	Pass
213	7015	99.86	-95.15	4.71	5.00	Pass
229	7095	99.86	-95.15	4.71	5.00	Pass
233	7115	94.96	-95.15	-0.19	5.00	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
35	6125	99.67	-95.15	4.52	5.00	Pass
59	6245	99.68	-95.15	4.53	5.00	Pass
91	6405	99.88	-95.15	4.73	5.00	Pass
99	6445	99.90	-95.15	4.75	5.00	Pass
107	6485	99.70	-95.15	4.55	5.00	Pass
115	6525	99.67	-95.15	4.52	5.00	Pass
123	6565	100.06	-95.15	4.91	5.00	Pass
155	6725	99.91	-95.15	4.76	5.00	Pass
179	6845	100.10	-95.15	4.95	5.00	Pass
187	6885	99.99	-95.15	4.84	5.00	Pass
211	7005	100.00	-95.15	4.85	5.00	Pass
227	7085	99.88	-95.15	4.73	5.00	Pass

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
39	6145	99.82	-95.15	4.67	5.00	Pass
55	6225	99.77	-95.15	4.62	5.00	Pass
87	6385	99.93	-95.15	4.78	5.00	Pass
103	6465	99.90	-95.15	4.75	5.00	Pass
119	6545	99.73	-95.15	4.58	5.00	Pass
135	6625	99.82	-95.15	4.67	5.00	Pass
151	6705	99.78	-95.15	4.63	5.00	Pass
167	6785	99.70	-95.15	4.55	5.00	Pass
183	6865	100.05	-95.15	4.90	5.00	Pass
199	6945	99.82	-95.15	4.67	5.00	Pass
215	7025	99.77	-95.15	4.62	5.00	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
47	6185	99.83	-95.15	4.68	5.00	Pass
79	6345	99.80	-95.15	4.65	5.00	Pass
111	6505	99.73	-95.15	4.58	5.00	Pass
143	6665	99.90	-95.15	4.75	5.00	Pass
175	6825	99.61	-95.15	4.46	5.00	Pass
207	6985	100.00	-95.15	4.85	5.00	Pass

Beamforming Mode

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
33	6115	99.84	-95.15	4.69	5.00	Pass
61	6255	99.59	-95.15	4.44	5.00	Pass
93	6415	99.77	-95.15	4.62	5.00	Pass
97	6435	99.73	-95.15	4.58	5.00	Pass
105	6475	99.74	-95.15	4.59	5.00	Pass
113	6515	99.70	-95.15	4.55	5.00	Pass
117	6535	99.79	-95.15	4.64	5.00	Pass
153	6715	99.77	-95.15	4.62	5.00	Pass
181	6855	99.70	-95.15	4.55	5.00	Pass
185	6875	99.84	-95.15	4.69	5.00	Pass
213	7015	99.75	-95.15	4.60	5.00	Pass
229	7095	99.78	-95.15	4.63	5.00	Pass
233	7115	96.74	-95.15	1.59	5.00	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
35	6125	100.05	-95.15	4.90	5.00	Pass
59	6245	99.67	-95.15	4.52	5.00	Pass
91	6405	99.64	-95.15	4.49	5.00	Pass
99	6445	99.79	-95.15	4.64	5.00	Pass
107	6485	99.67	-95.15	4.52	5.00	Pass
115	6525	99.73	-95.15	4.58	5.00	Pass
123	6565	99.63	-95.15	4.48	5.00	Pass
155	6725	99.86	-95.15	4.71	5.00	Pass
179	6845	99.88	-95.15	4.73	5.00	Pass
187	6885	99.89	-95.15	4.74	5.00	Pass
211	7005	99.76	-95.15	4.61	5.00	Pass
227	7085	99.79	-95.15	4.64	5.00	Pass

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
39	6145	99.95	-95.15	4.80	5.00	Pass
55	6225	99.99	-95.15	4.84	5.00	Pass
87	6385	100.00	-95.15	4.85	5.00	Pass
103	6465	99.95	-95.15	4.80	5.00	Pass
119	6545	100.03	-95.15	4.88	5.00	Pass
135	6625	99.91	-95.15	4.76	5.00	Pass
151	6705	100.00	-95.15	4.85	5.00	Pass
167	6785	99.96	-95.15	4.81	5.00	Pass
183	6865	99.92	-95.15	4.77	5.00	Pass
199	6945	99.93	-95.15	4.78	5.00	Pass
215	7025	99.86	-95.15	4.71	5.00	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
47	6185	99.82	-95.15	4.67	5.00	Pass
79	6345	100.11	-95.15	4.96	5.00	Pass
111	6505	100.04	-95.15	4.89	5.00	Pass
143	6665	100.09	-95.15	4.94	5.00	Pass
175	6825	100.01	-95.15	4.86	5.00	Pass
207	6985	100.07	-95.15	4.92	5.00	Pass

4.6.7 Test Results (Mode 2)

SDM Mode:

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
33	6115	99.94	-95.15	4.79	5.00	Pass
61	6255	99.80	-95.15	4.65	5.00	Pass
93	6415	99.76	-95.15	4.61	5.00	Pass
97	6435	99.66	-95.15	4.51	5.00	Pass
105	6475	99.83	-95.15	4.68	5.00	Pass
113	6515	100.00	-95.15	4.85	5.00	Pass
117	6535	99.74	-95.15	4.59	5.00	Pass
153	6715	99.94	-95.15	4.79	5.00	Pass
181	6855	100.03	-95.15	4.88	5.00	Pass
185	6875	100.00	-95.15	4.85	5.00	Pass
213	7015	99.91	-95.15	4.76	5.00	Pass
229	7095	99.85	-95.15	4.70	5.00	Pass
233	7115	92.74	-95.15	-2.41	5.00	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
35	6125	100.07	-95.15	4.92	5.00	Pass
59	6245	99.75	-95.15	4.60	5.00	Pass
91	6405	99.66	-95.15	4.51	5.00	Pass
99	6445	99.98	-95.15	4.83	5.00	Pass
107	6485	99.86	-95.15	4.71	5.00	Pass
115	6525	99.93	-95.15	4.78	5.00	Pass
123	6565	99.94	-95.15	4.79	5.00	Pass
155	6725	99.93	-95.15	4.78	5.00	Pass
179	6845	100.09	-95.15	4.94	5.00	Pass
187	6885	99.88	-95.15	4.73	5.00	Pass
211	7005	100.06	-95.15	4.91	5.00	Pass
227	7085	99.67	-95.15	4.52	5.00	Pass

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
39	6145	99.84	-95.15	4.69	5.00	Pass
55	6225	100.02	-95.15	4.87	5.00	Pass
87	6385	99.69	-95.15	4.54	5.00	Pass
103	6465	99.92	-95.15	4.77	5.00	Pass
119	6545	99.86	-95.15	4.71	5.00	Pass
135	6625	99.87	-95.15	4.72	5.00	Pass
151	6705	99.93	-95.15	4.78	5.00	Pass
167	6785	99.79	-95.15	4.64	5.00	Pass
183	6865	100.03	-95.15	4.88	5.00	Pass
199	6945	99.99	-95.15	4.84	5.00	Pass
215	7025	99.91	-95.15	4.76	5.00	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
47	6185	99.95	-95.15	4.80	5.00	Pass
79	6345	99.84	-95.15	4.69	5.00	Pass
111	6505	100.02	-95.15	4.87	5.00	Pass
143	6665	100.01	-95.15	4.86	5.00	Pass
175	6825	99.97	-95.15	4.82	5.00	Pass
207	6985	99.99	-95.15	4.84	5.00	Pass

Beamforming Mode

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
33	6115	99.67	-95.15	4.52	5.00	Pass
61	6255	99.65	-95.15	4.50	5.00	Pass
93	6415	99.94	-95.15	4.79	5.00	Pass
97	6435	99.66	-95.15	4.51	5.00	Pass
105	6475	99.62	-95.15	4.47	5.00	Pass
113	6515	99.73	-95.15	4.58	5.00	Pass
117	6535	99.69	-95.15	4.54	5.00	Pass
153	6715	99.62	-95.15	4.47	5.00	Pass
181	6855	99.78	-95.15	4.63	5.00	Pass
185	6875	99.66	-95.15	4.51	5.00	Pass
213	7015	99.59	-95.15	4.44	5.00	Pass
229	7095	99.99	-95.15	4.84	5.00	Pass
233	7115	92.94	-95.15	-2.21	5.00	Pass

802.11ax (HE40)

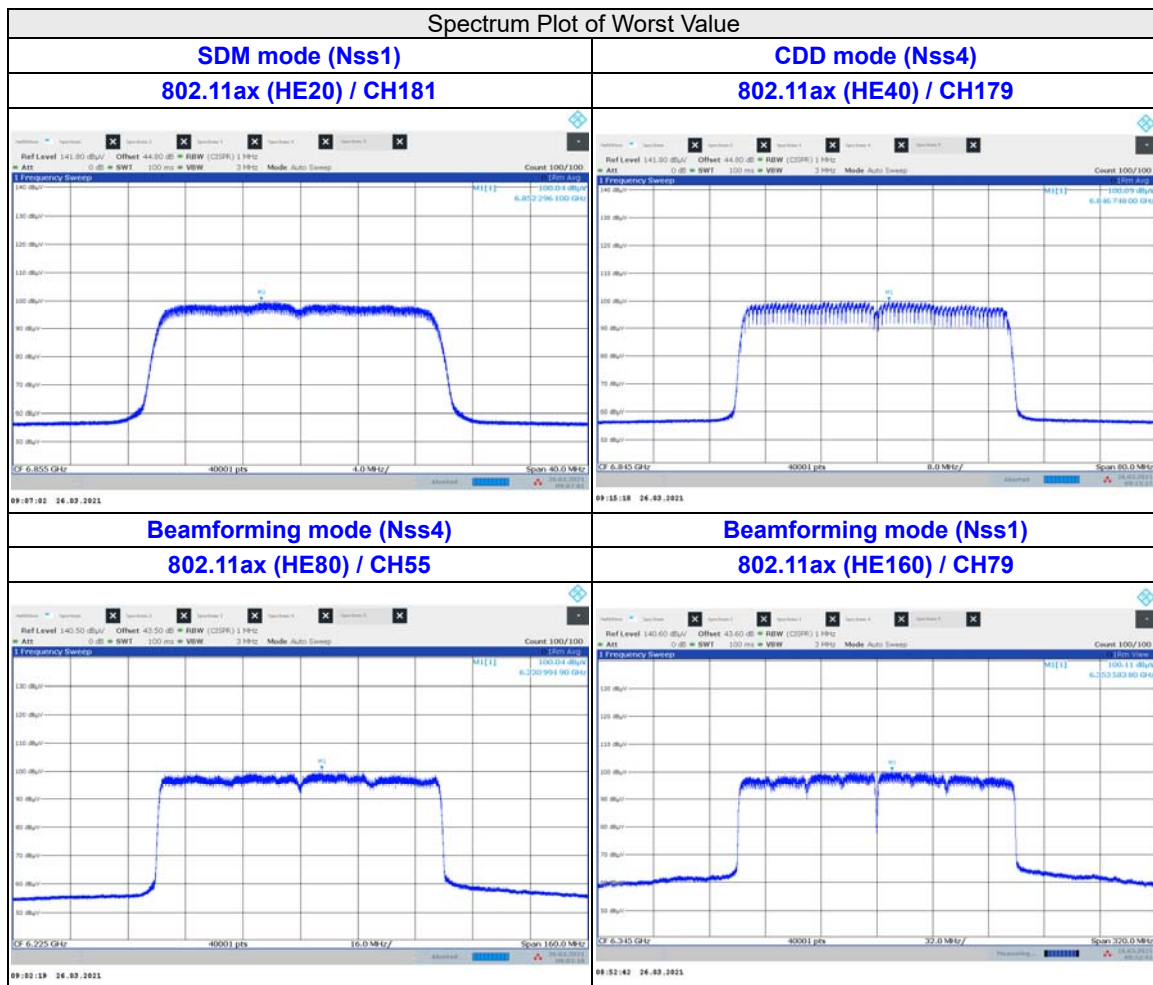
Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
35	6125	100.06	-95.15	4.91	5.00	Pass
59	6245	99.74	-95.15	4.59	5.00	Pass
91	6405	99.61	-95.15	4.46	5.00	Pass
99	6445	100.01	-95.15	4.86	5.00	Pass
107	6485	99.86	-95.15	4.71	5.00	Pass
115	6525	99.91	-95.15	4.76	5.00	Pass
123	6565	99.82	-95.15	4.67	5.00	Pass
155	6725	99.91	-95.15	4.76	5.00	Pass
179	6845	99.99	-95.15	4.84	5.00	Pass
187	6885	99.92	-95.15	4.77	5.00	Pass
211	7005	99.75	-95.15	4.60	5.00	Pass
227	7085	100.07	-95.15	4.92	5.00	Pass

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
39	6145	99.87	-95.15	4.72	5.00	Pass
55	6225	100.04	-95.15	4.89	5.00	Pass
87	6385	99.78	-95.15	4.63	5.00	Pass
103	6465	99.96	-95.15	4.81	5.00	Pass
119	6545	99.76	-95.15	4.61	5.00	Pass
135	6625	99.78	-95.15	4.63	5.00	Pass
151	6705	99.91	-95.15	4.76	5.00	Pass
167	6785	99.72	-95.15	4.57	5.00	Pass
183	6865	100.03	-95.15	4.88	5.00	Pass
199	6945	99.90	-95.15	4.75	5.00	Pass
215	7025	99.93	-95.15	4.78	5.00	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
47	6185	99.91	-95.15	4.76	5.00	Pass
79	6345	99.97	-95.15	4.82	5.00	Pass
111	6505	99.90	-95.15	4.75	5.00	Pass
143	6665	99.84	-95.15	4.69	5.00	Pass
175	6825	99.95	-95.15	4.80	5.00	Pass
207	6985	100.04	-95.15	4.89	5.00	Pass



4.7 Operational Restrictions for 6 GHz U-NII Devices

4.7.1 Limits of Operational Restrictions for 6 GHz U-NII Devices

- (1) Operation of indoor access points in the 5.925-7.125 GHz band is prohibited on oil platforms, cars, trains, boats, and aircraft, except that indoor access points are permitted to operate in the 5.925-6.425 GHz bands in large aircraft while flying above 10,000 feet.
- (2) Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.
- (3) Transmitters operating under the provisions of paragraphs (a)(5), (a)(6), and (a)(8) of this section are limited to indoor locations.
- (4) In the 5.925-7.125 GHz band, indoor access points must bear the following statement in a conspicuous location on the device and in the user's manual: FCC regulations restrict operation of this device to indoor use only. The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet.
- (5) In the 5.925-7.125 GHz band, Access points and subordinate devices may connect to other access points or subordinate devices.
- (6) Indoor access points, operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

4.7.2 Test Setup

N/A

4.7.3 Test Instruments

N/A

4.7.4 Test Procedure

N/A.

4.7.5 Test Results

Device is an indoor access point, all restrictions are meet the §15.407 (d) requirements.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix A – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

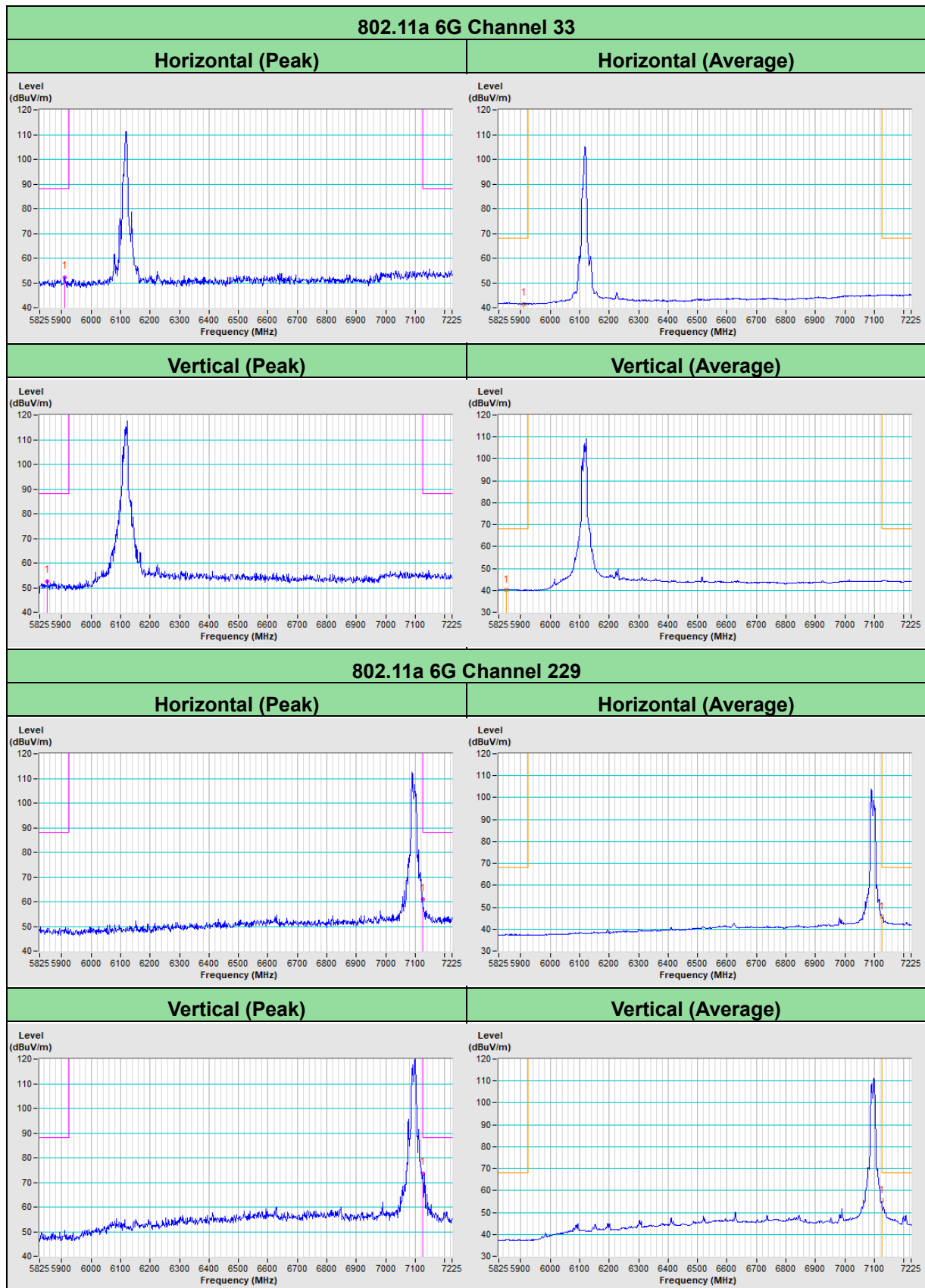
Email: service.adt@tw.bureauveritas.com

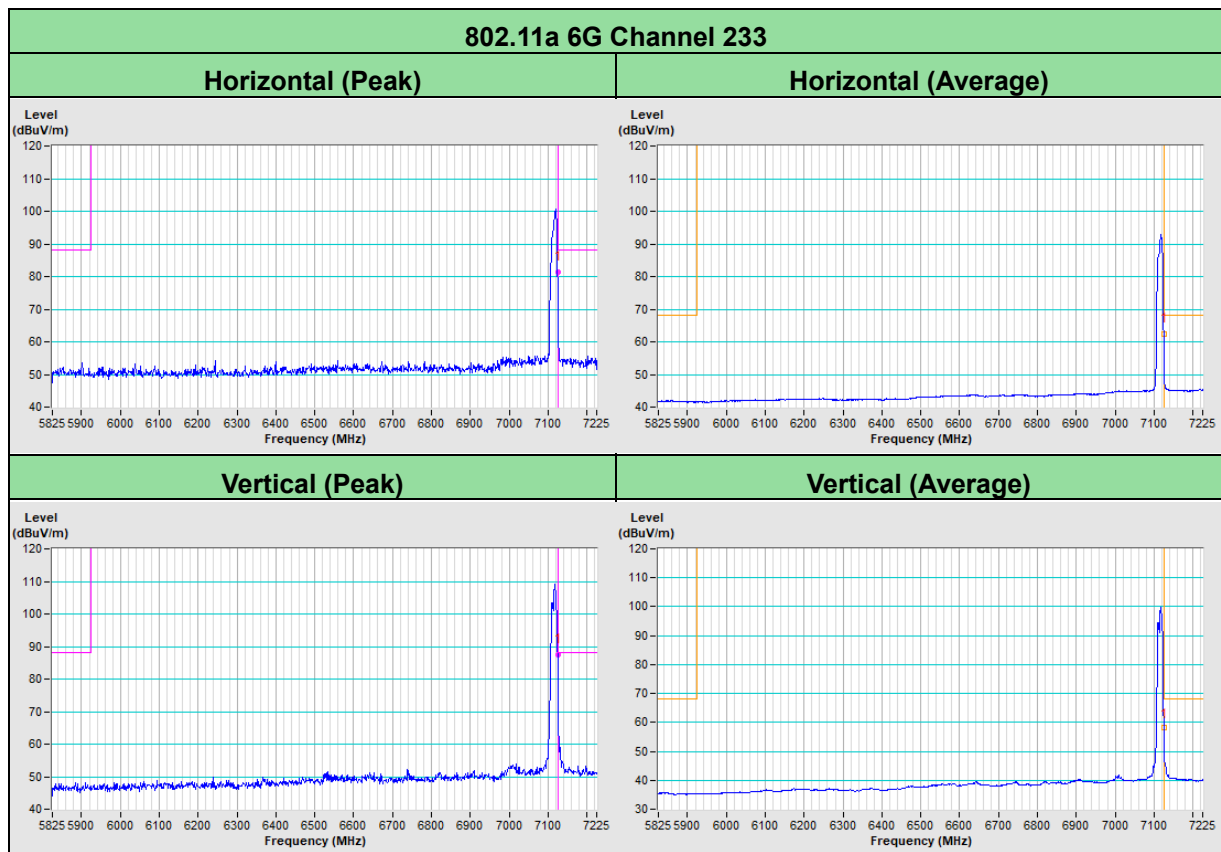
Web Site: www.bureauveritas-adt.com

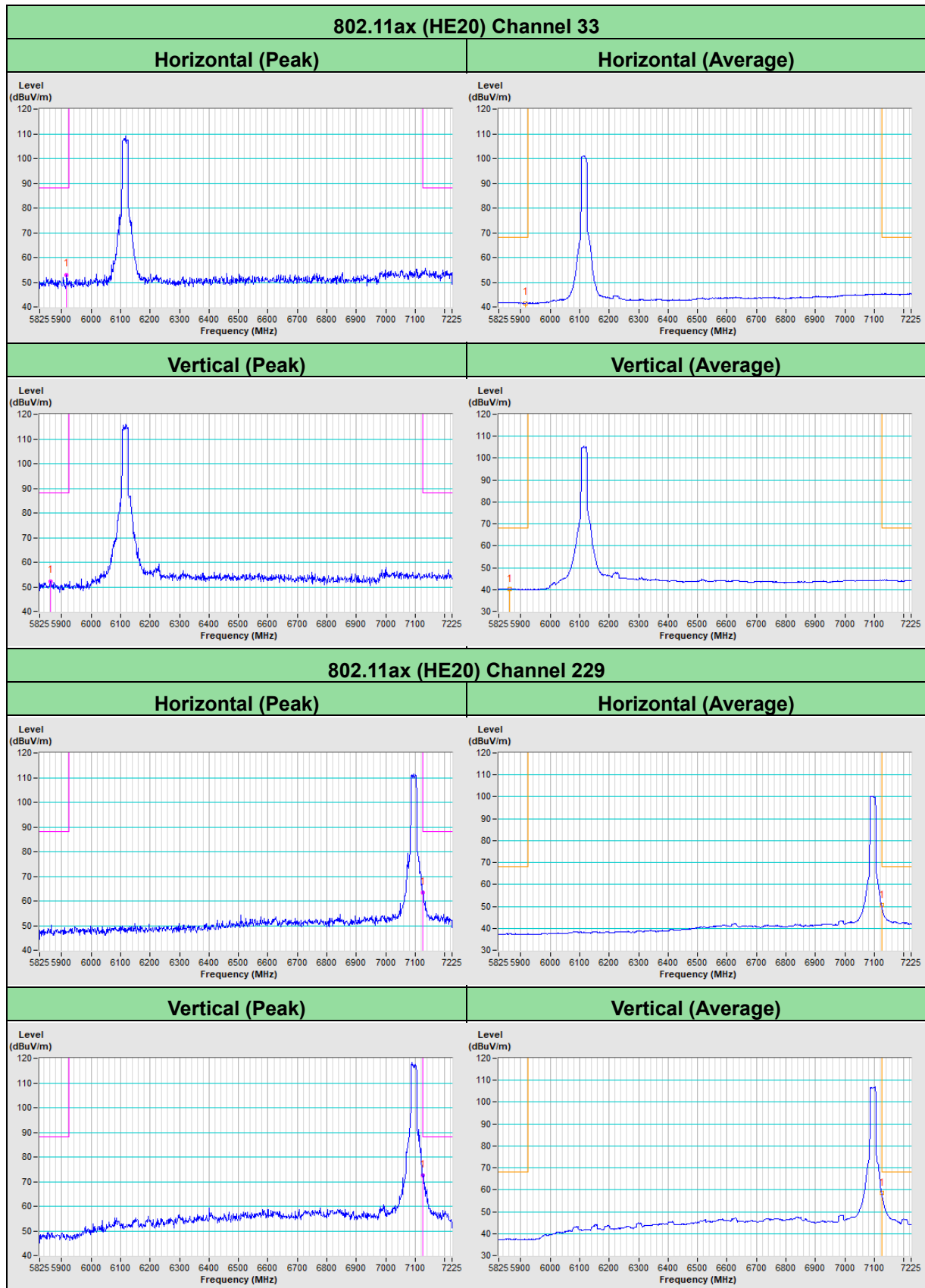
The address and road map of all our labs can be found in our web site also.

--- END ---

Annex B.1 – Band-Edge Measurement (Mode 1)

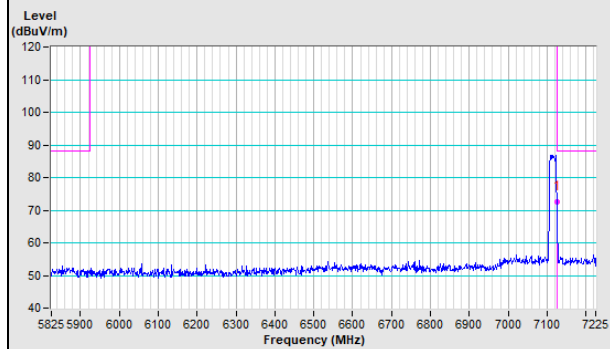




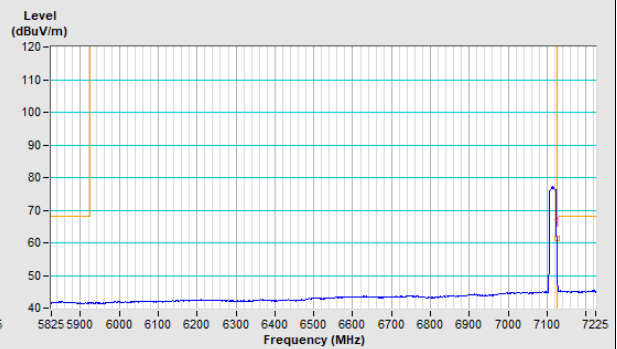


802.11ax (HE20) Channel 233

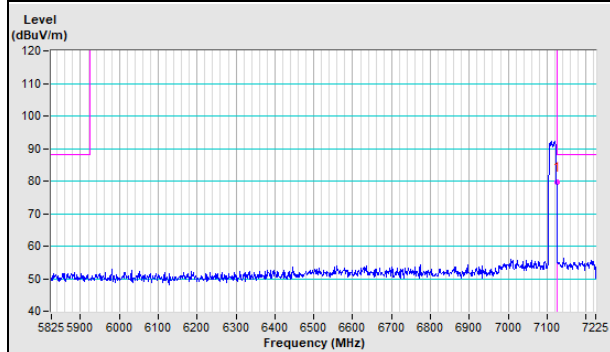
Horizontal (Peak)



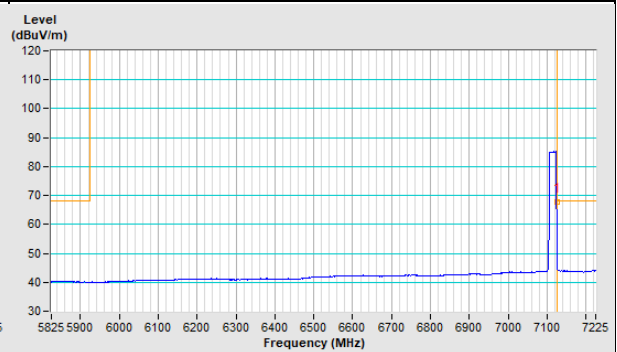
Horizontal (Average)

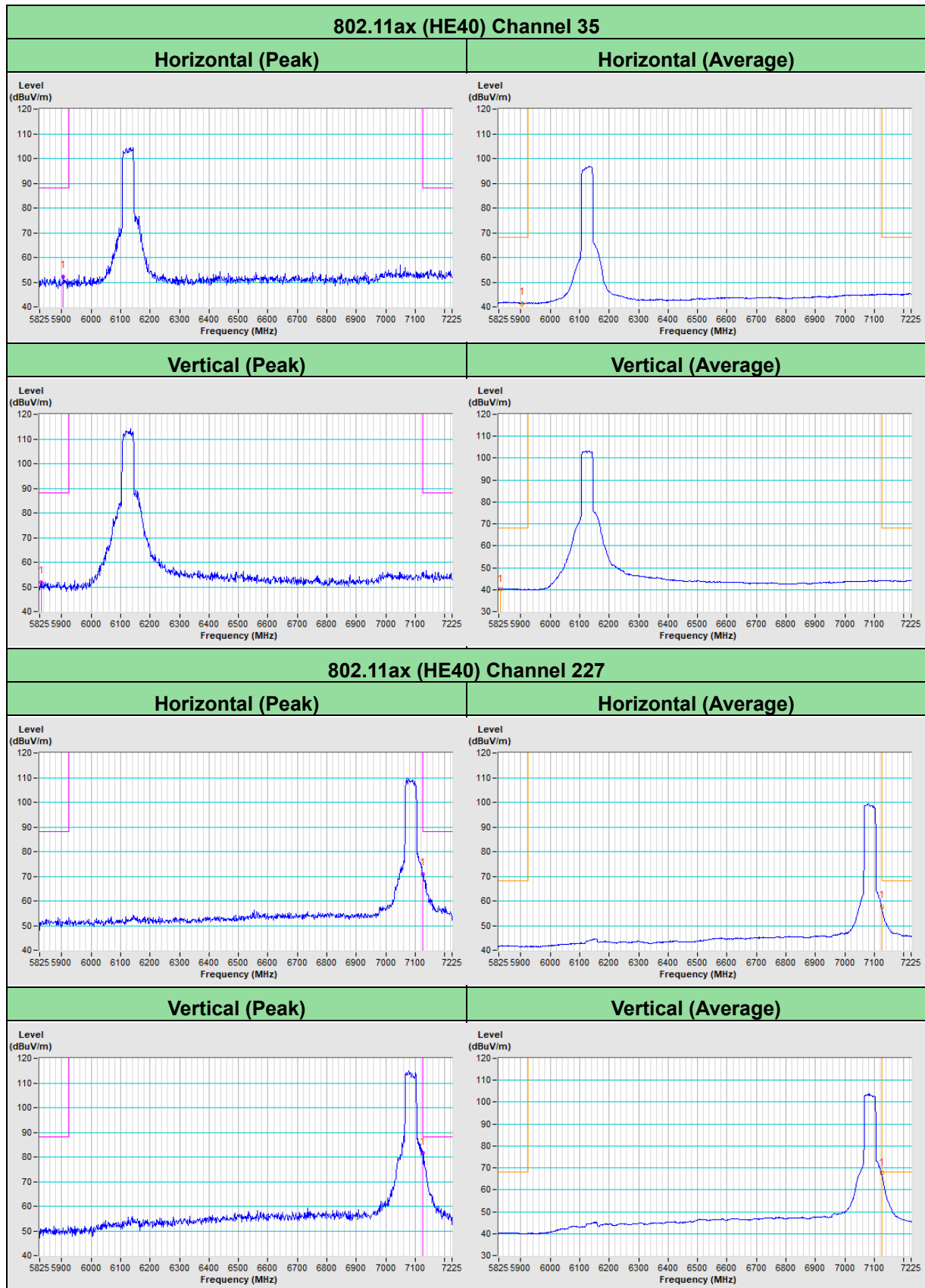


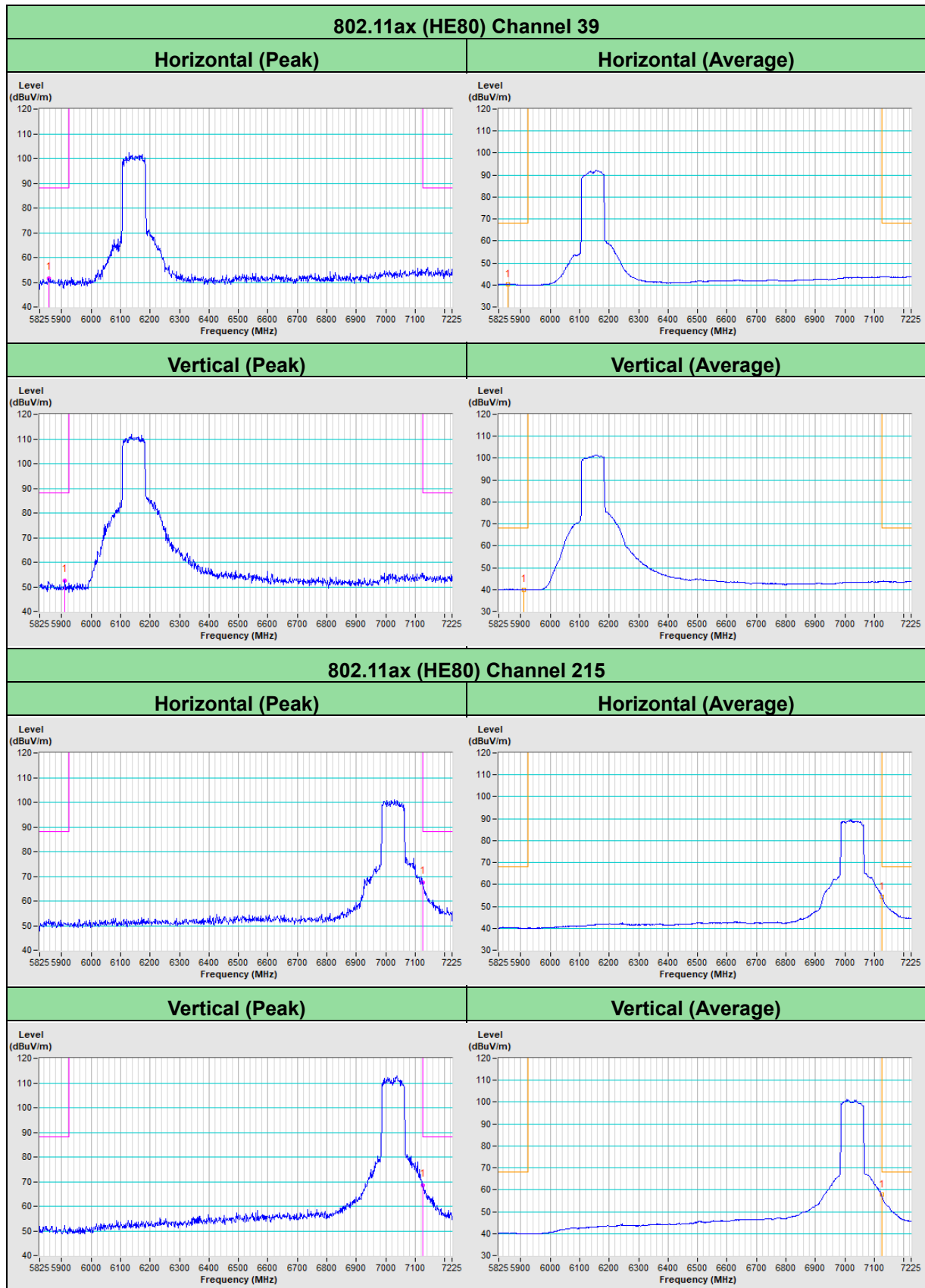
Vertical (Peak)



Vertical (Average)

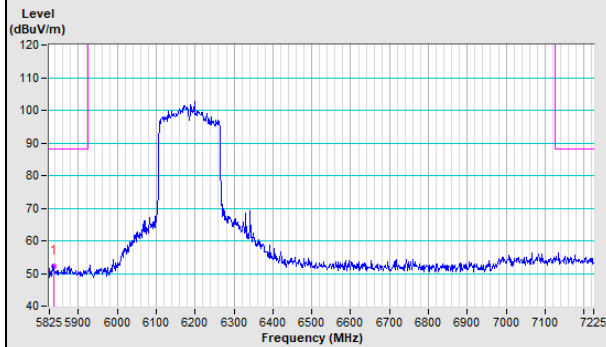




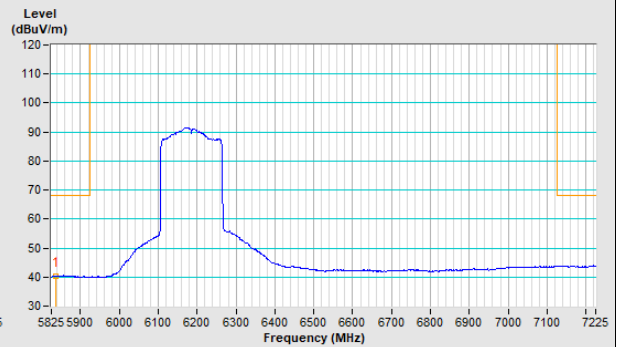


802.11ax (HE160) Channel 47

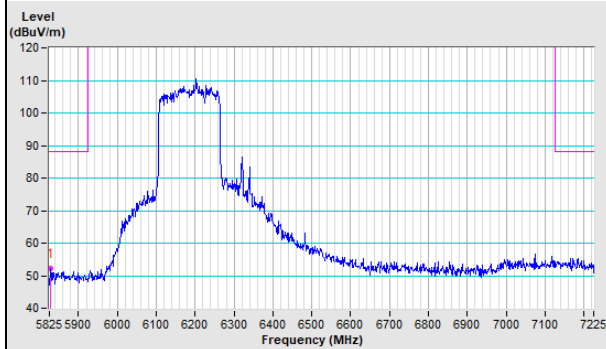
Horizontal (Peak)



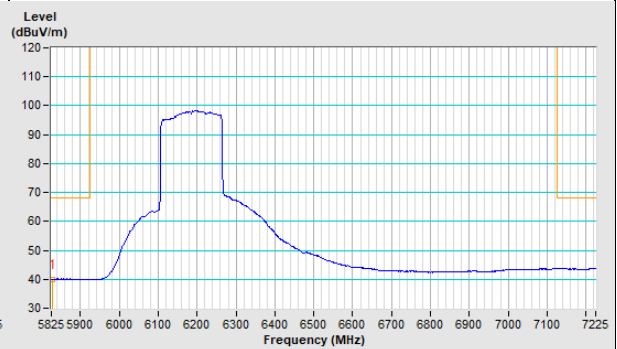
Horizontal (Average)



Vertical (Peak)

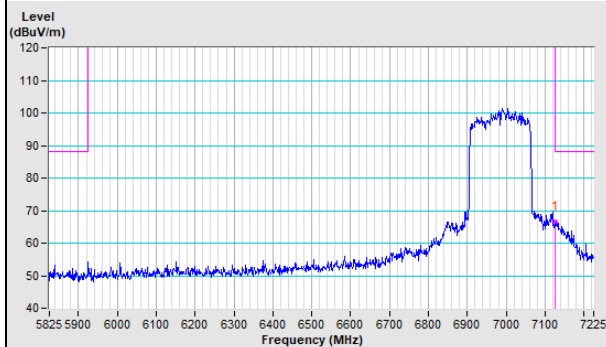


Vertical (Average)

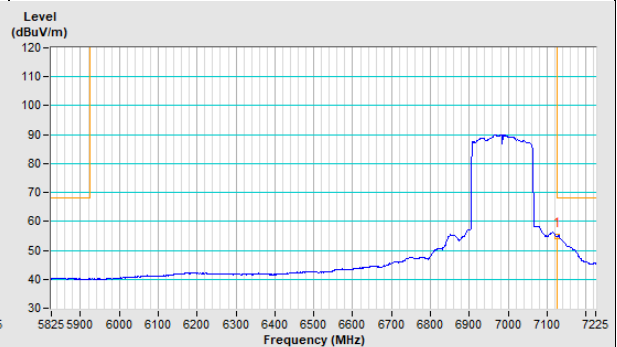


802.11ax (HE160) Channel 207

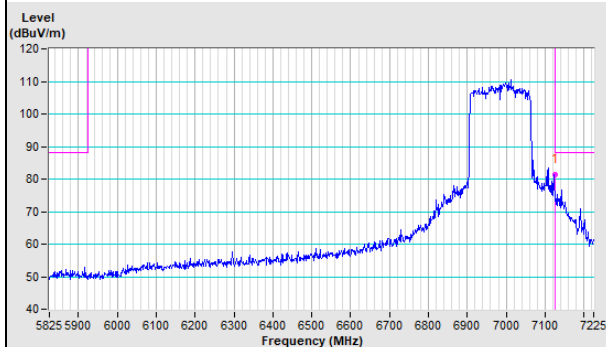
Horizontal (Peak)



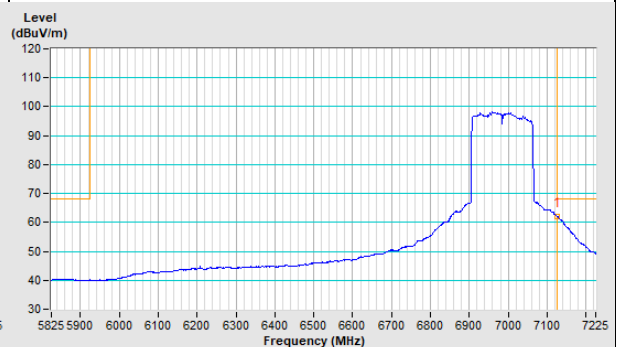
Horizontal (Average)



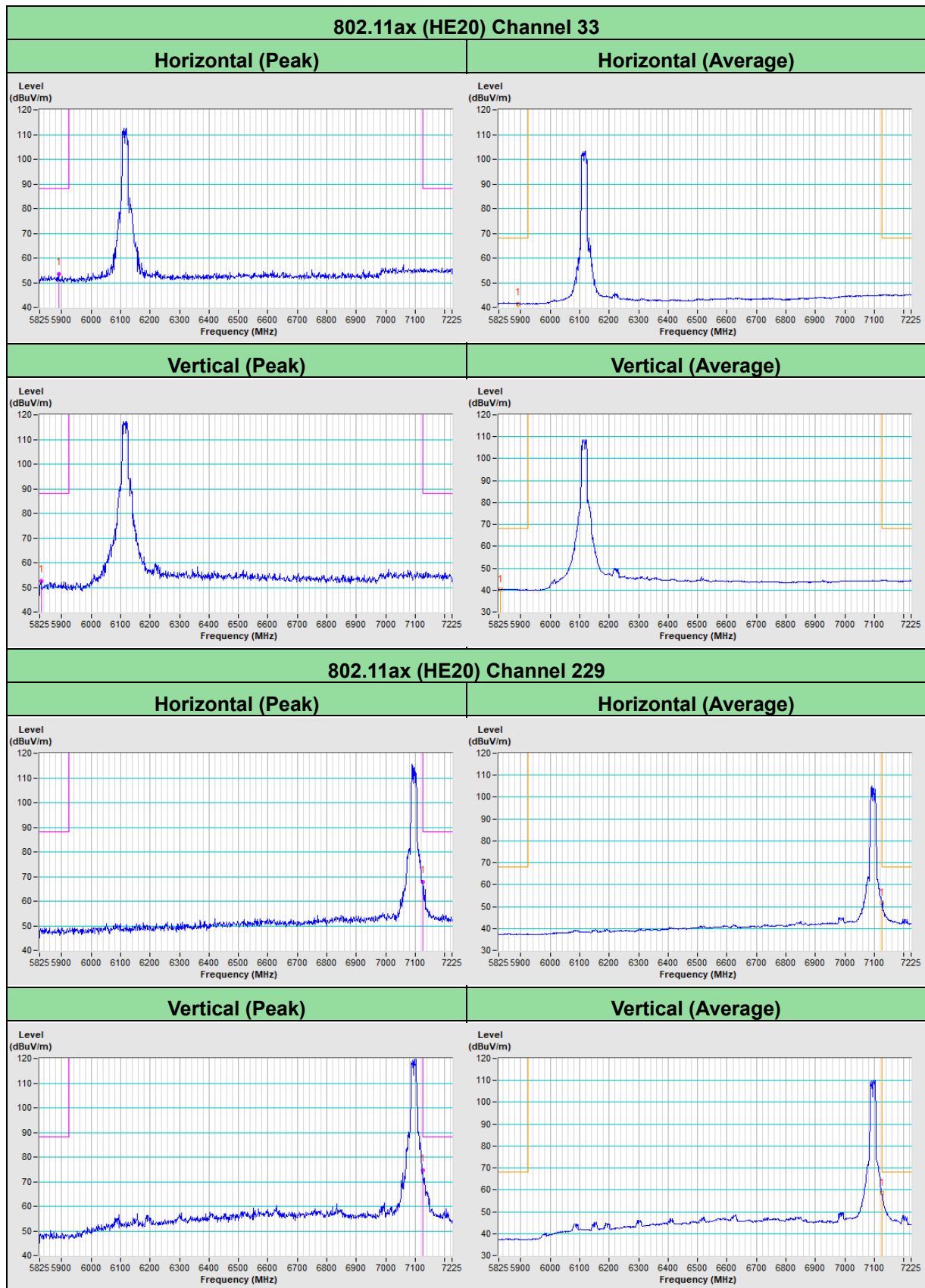
Vertical (Peak)



Vertical (Average)

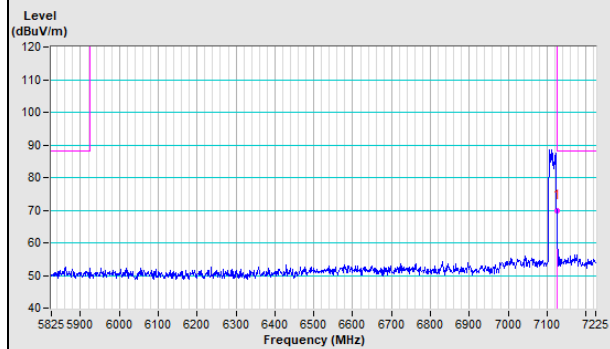


Annex B.2 – Band-Edge Measurement (Mode 2)

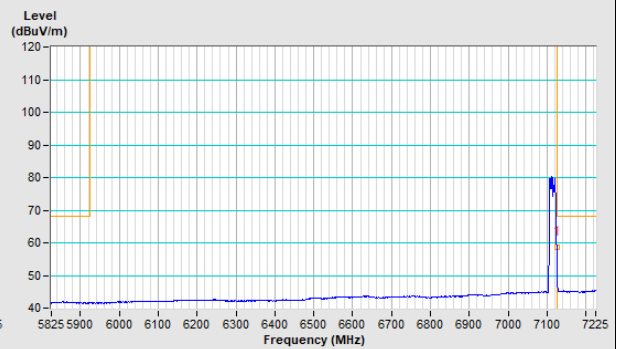


802.11ax (HE20) Channel 233

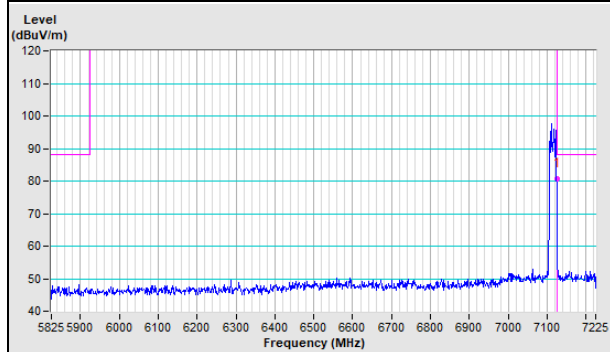
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

