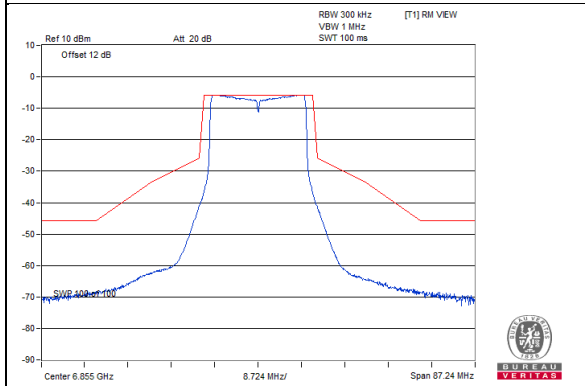


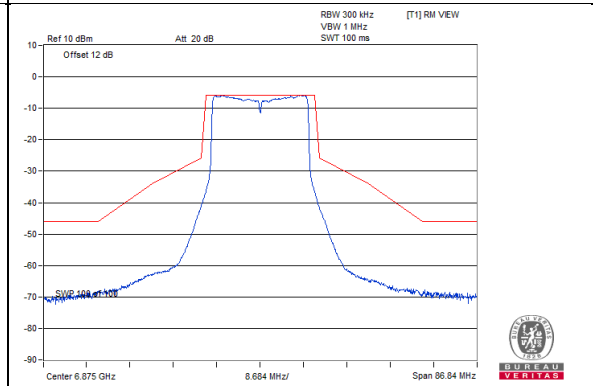
Spectrum Plot of Worst Value

Chain 0

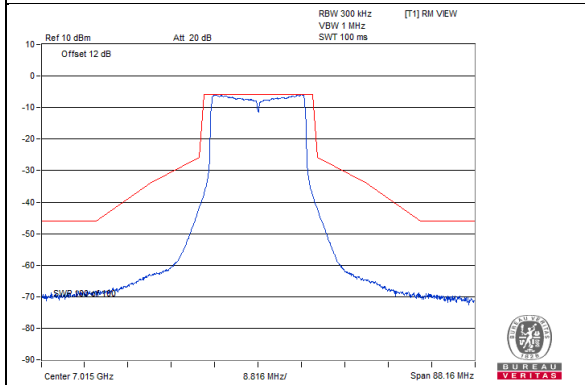
CH181



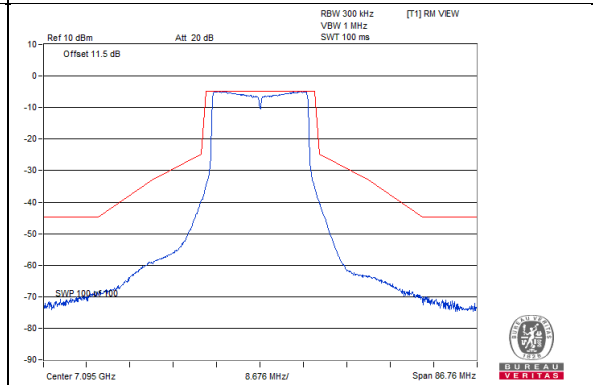
CH185



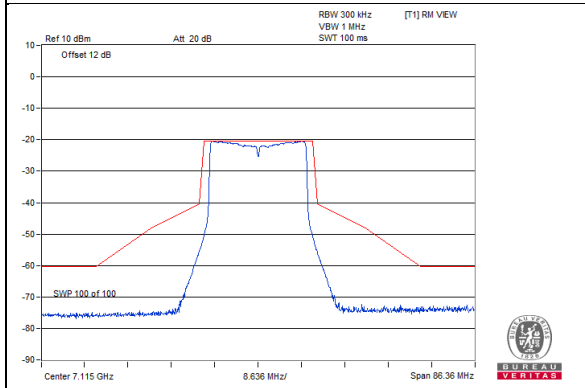
CH213



CH229

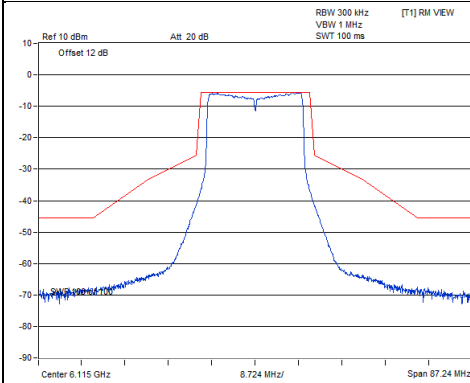


CH233

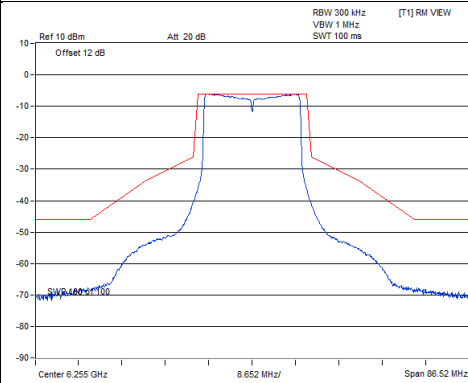


Spectrum Plot of Worst Value

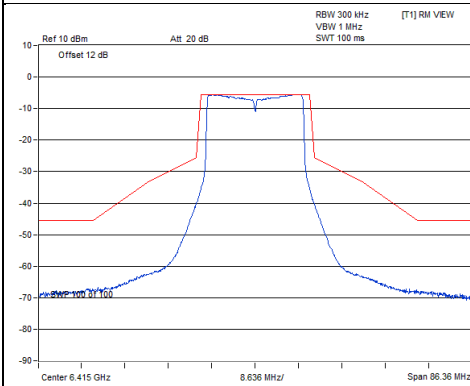
Chain 1 CH33



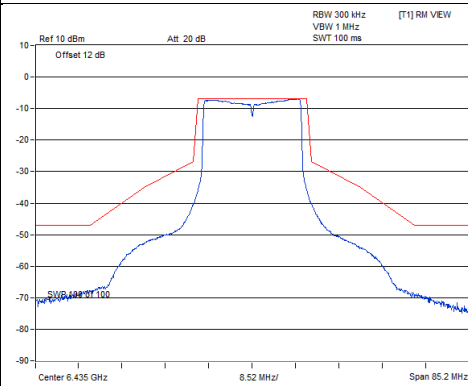
CH61



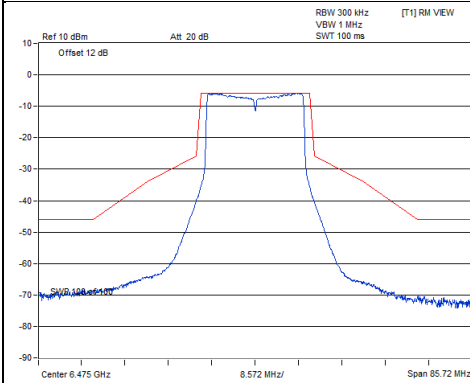
CH93



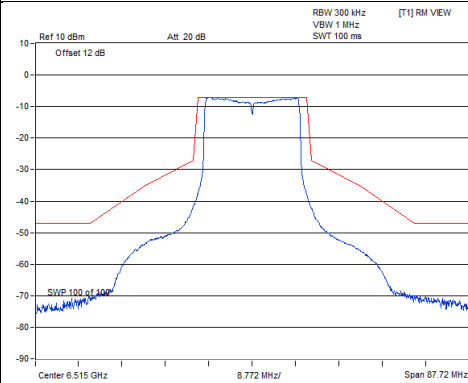
CH97



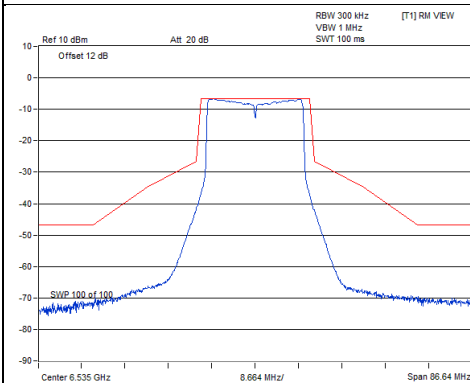
CH105



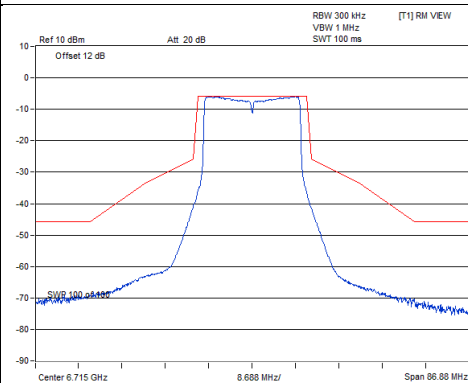
CH113



CH117



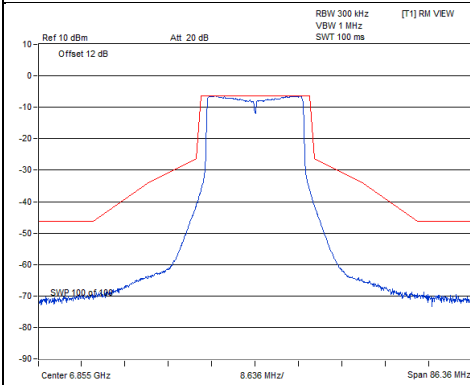
CH153



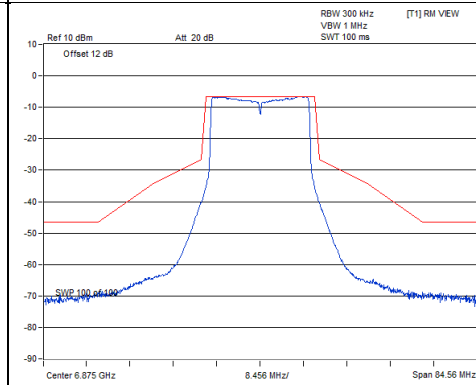
Spectrum Plot of Worst Value

Chain 1

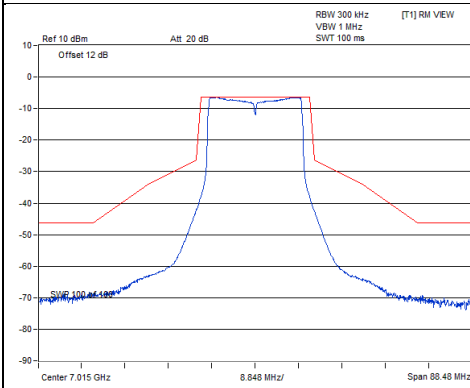
CH181



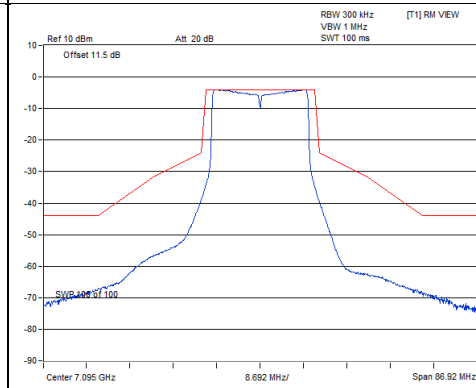
CH185



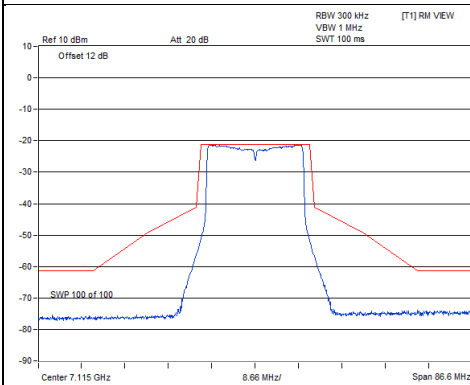
CH213



CH229



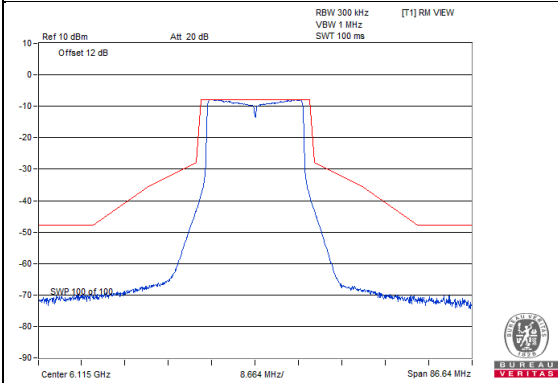
CH233



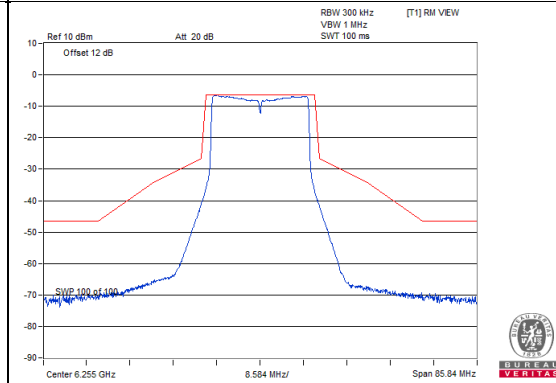
Spectrum Plot of Worst Value

Chain 2

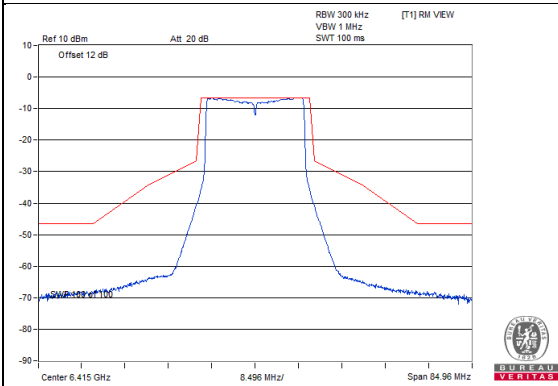
CH33



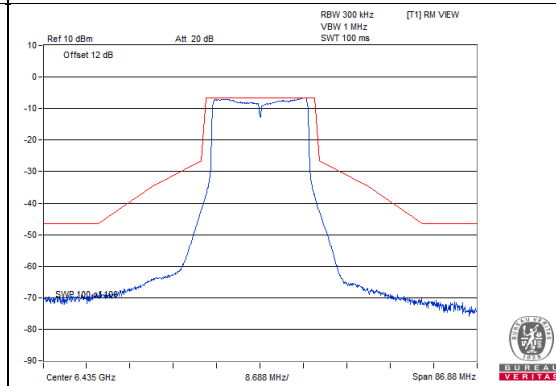
CH61



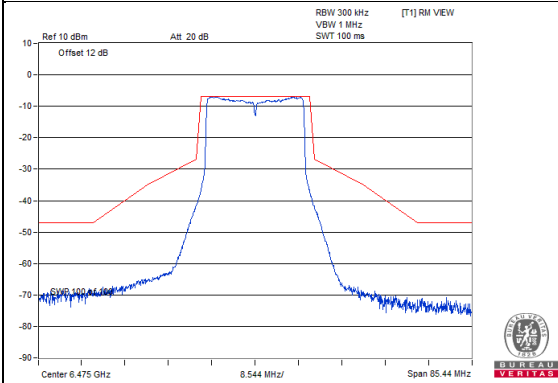
CH93



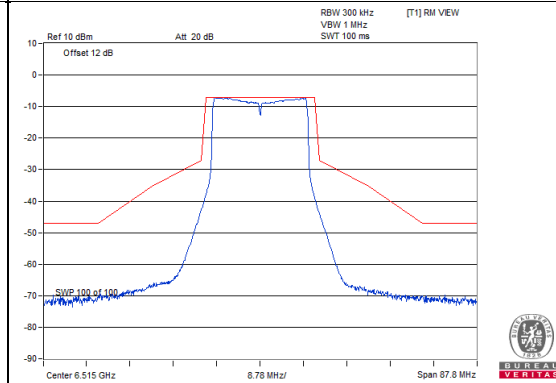
CH97



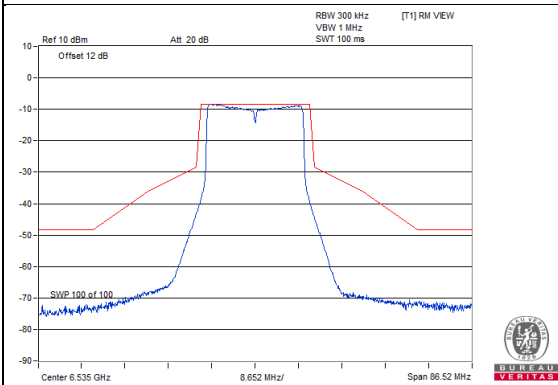
CH105



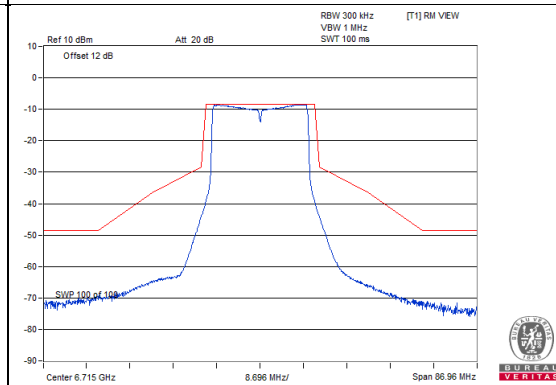
CH113



CH117



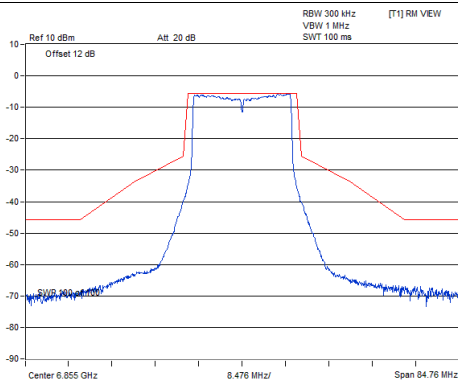
CH153



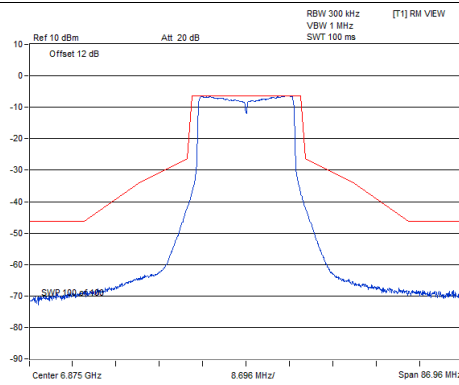
Spectrum Plot of Worst Value

Chain 2

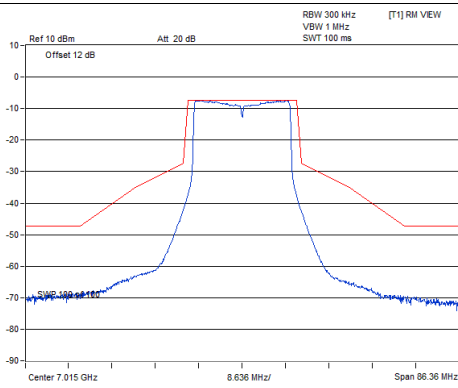
CH181



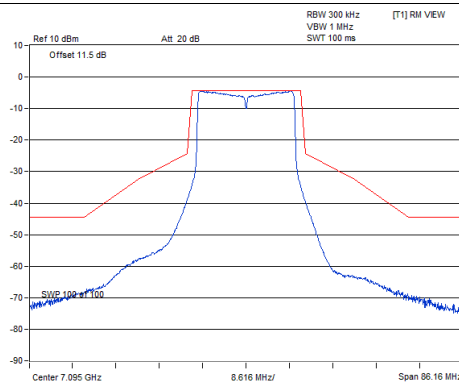
CH185



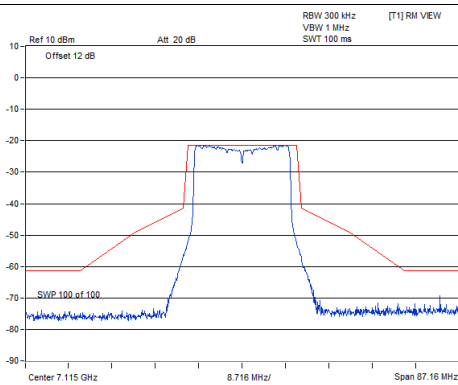
CH213



CH229

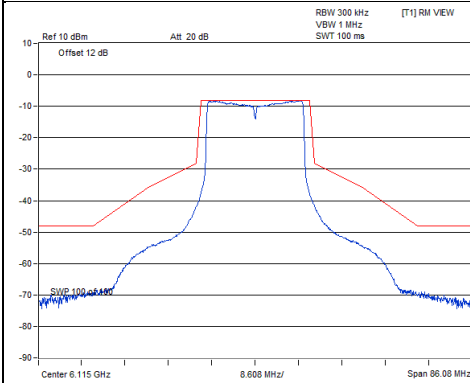


CH233

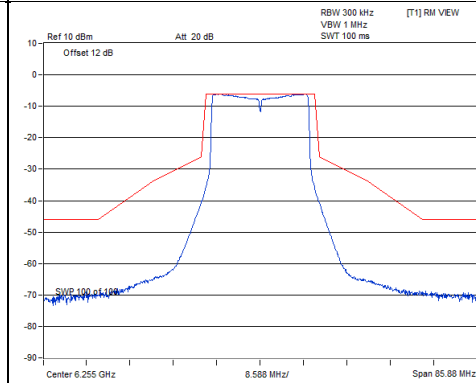


Spectrum Plot of Worst Value

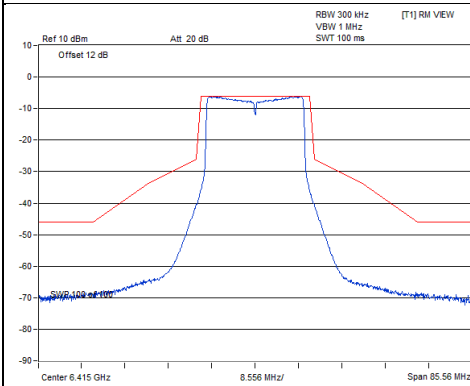
Chain 3 CH33



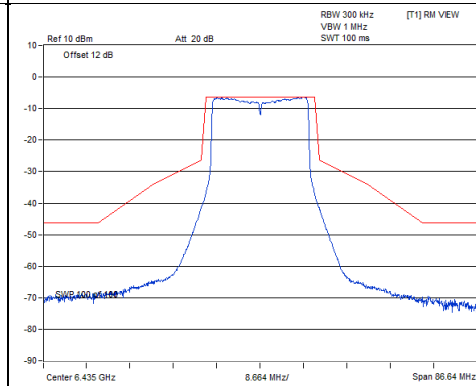
CH61



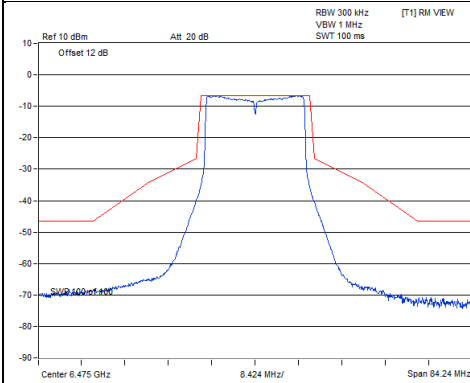
CH93



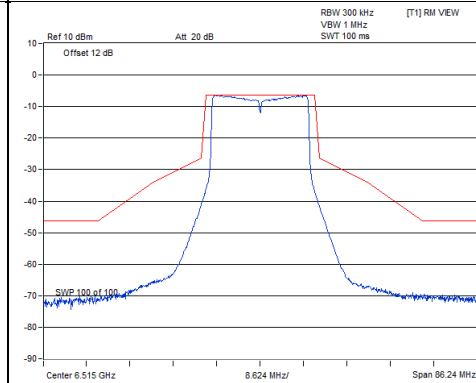
CH97



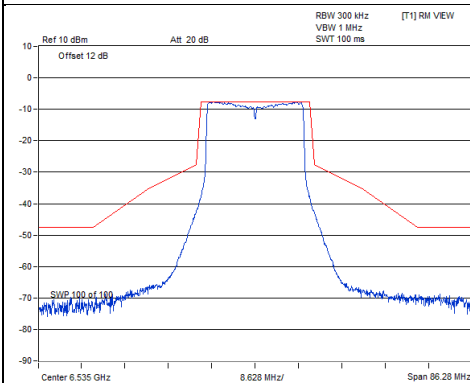
CH105



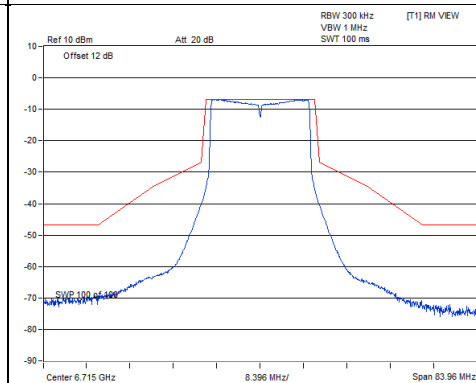
CH113



CH117



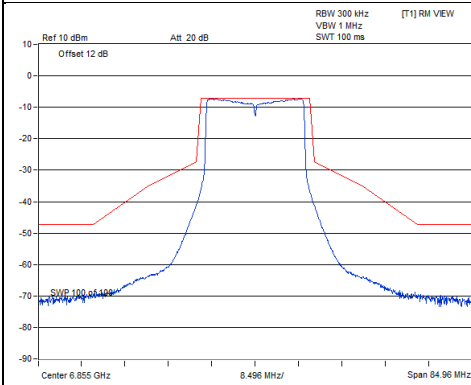
CH153



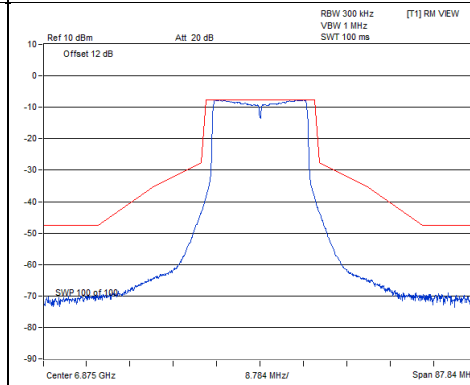
Spectrum Plot of Worst Value

Chain 3

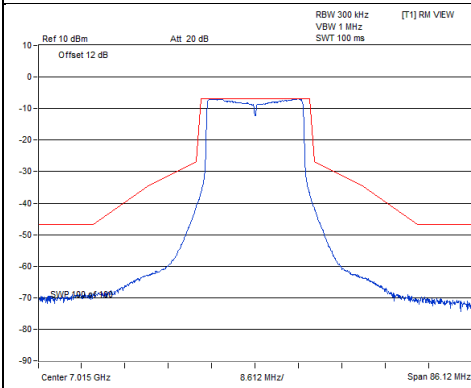
CH181



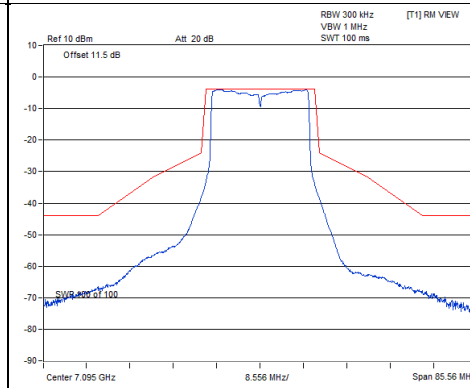
CH185



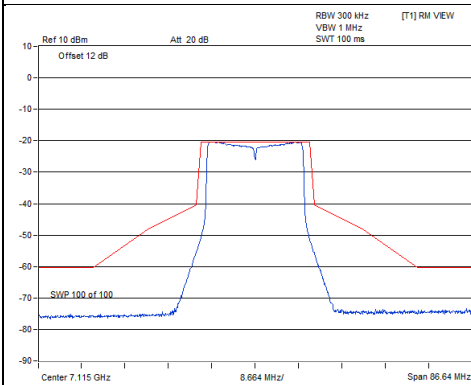
CH213



CH229



CH233

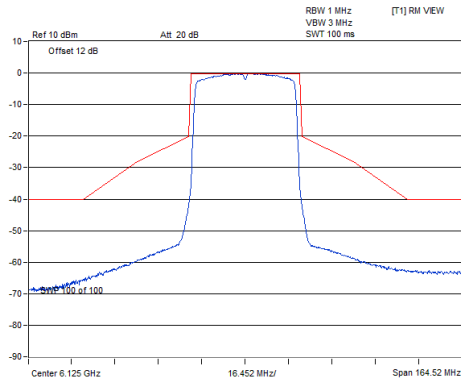


802.11ax (HE40)

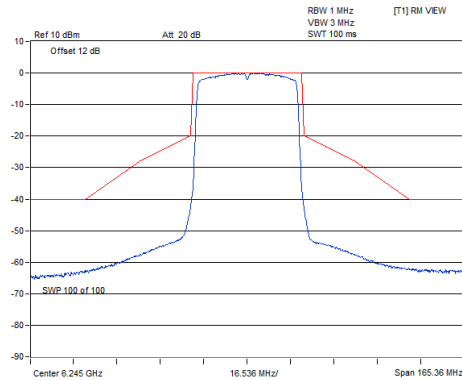
Spectrum Plot of Worst Value

Chain 0

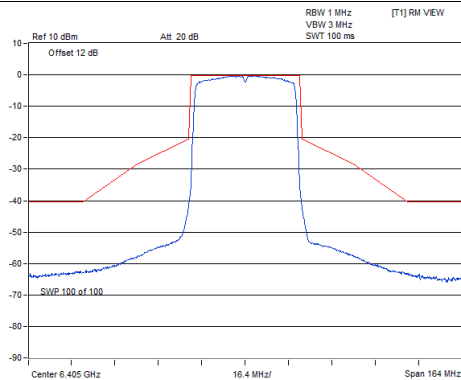
CH35



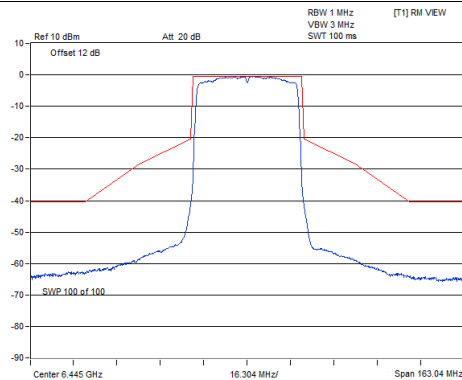
CH59



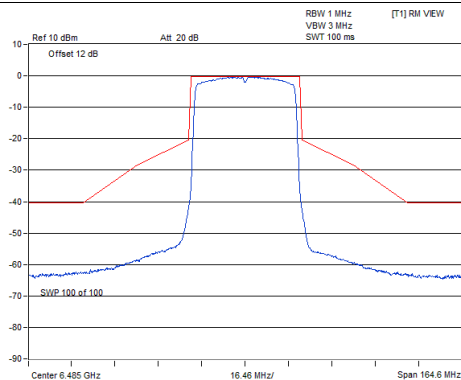
CH91



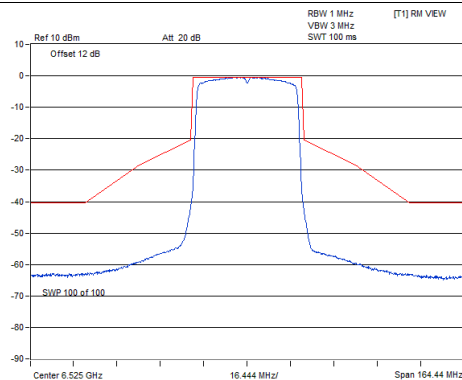
CH99



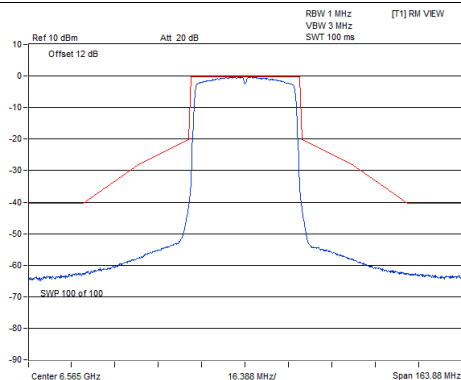
CH107



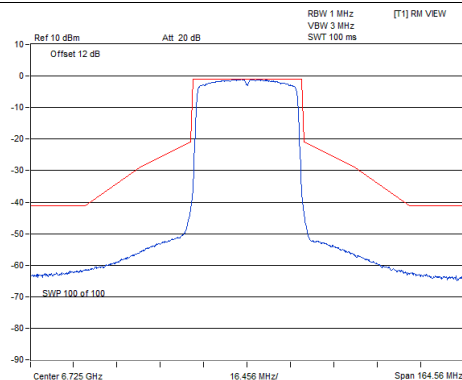
CH115



CH123



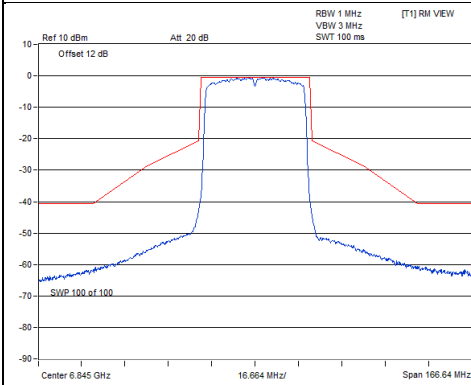
CH155



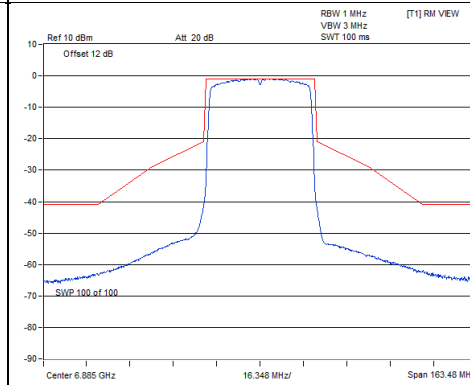
Spectrum Plot of Worst Value

Chain 0

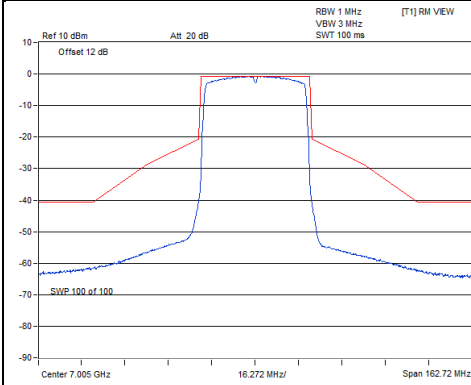
CH179



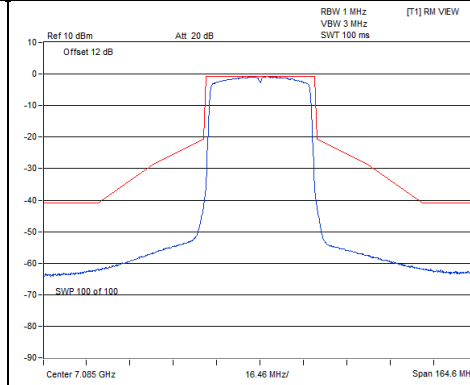
CH187



CH211

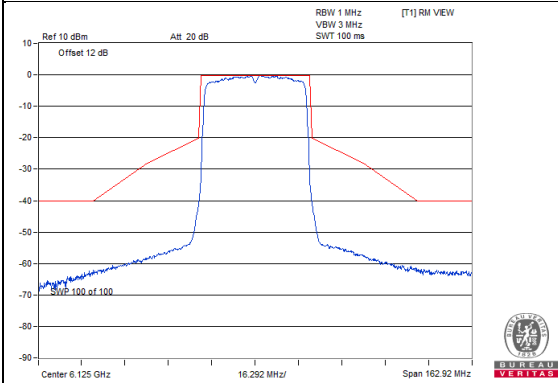


CH227

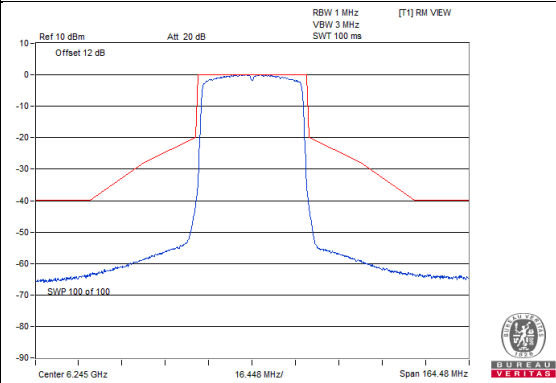


Spectrum Plot of Worst Value

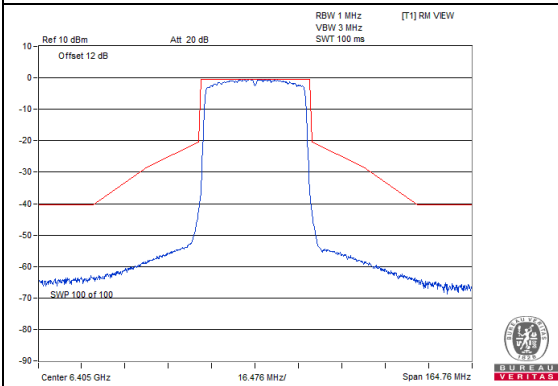
Chain 1 CH35



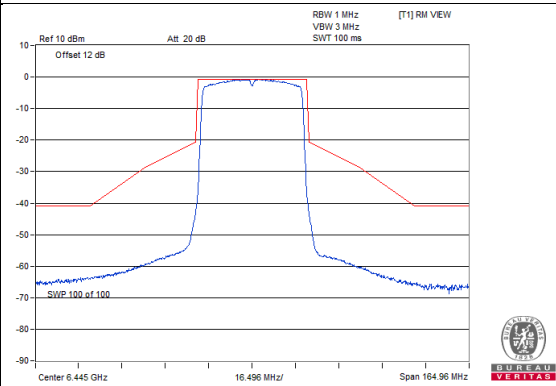
CH59



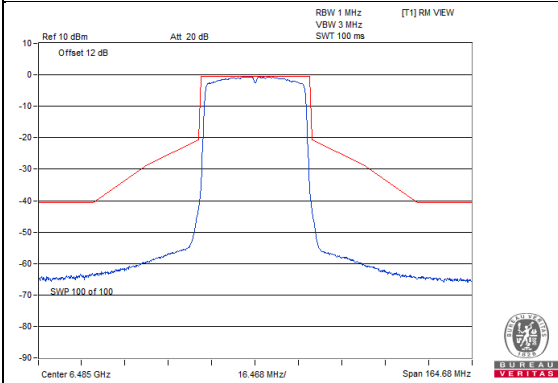
CH91



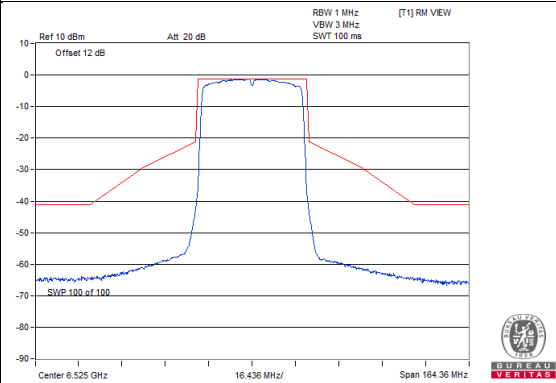
CH99



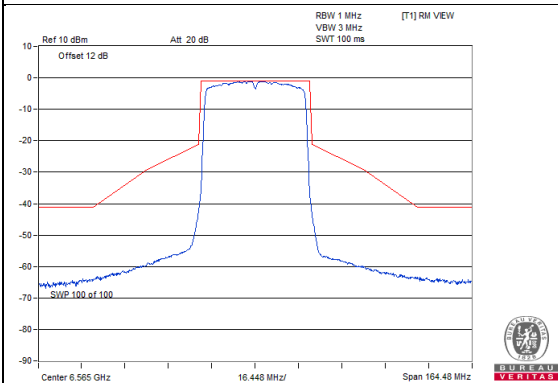
CH107



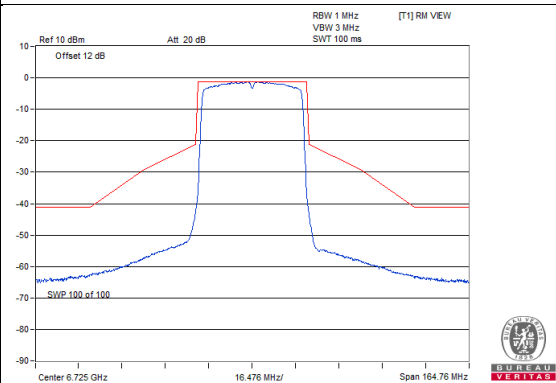
CH115



CH123



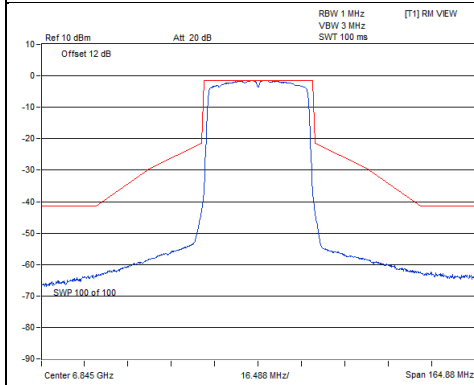
CH155



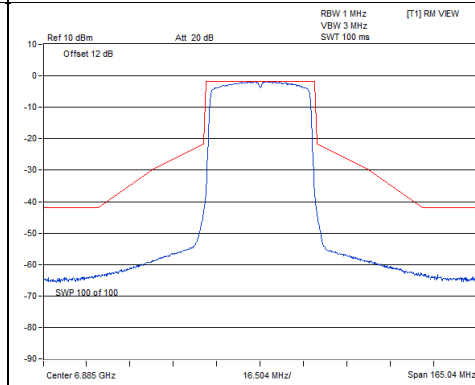
Spectrum Plot of Worst Value

Chain 1

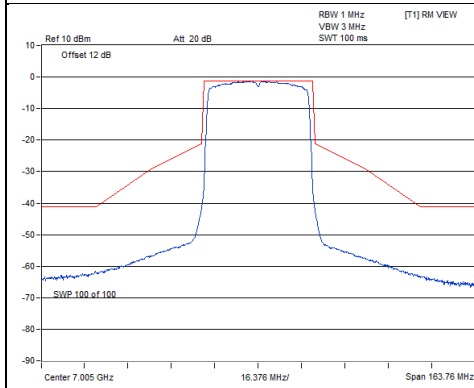
CH179



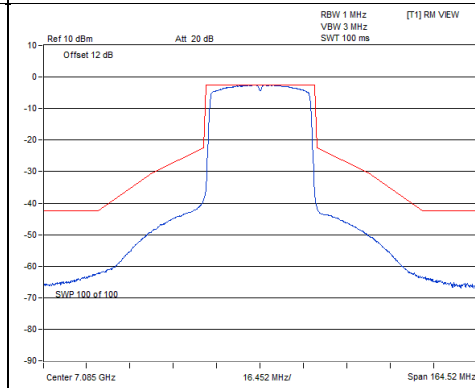
CH187



CH211



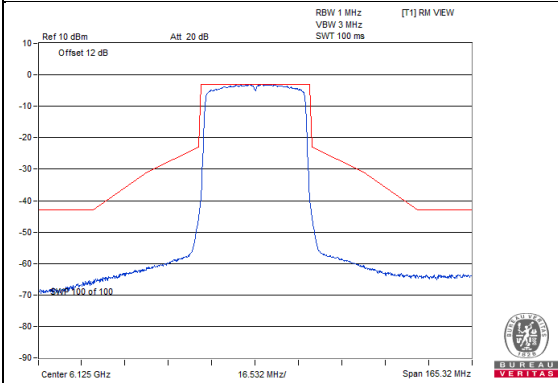
CH227



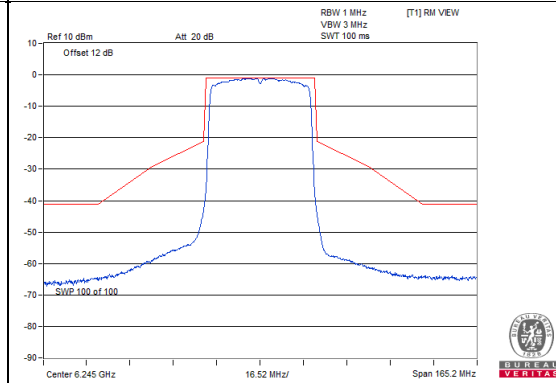
Spectrum Plot of Worst Value

Chain 2

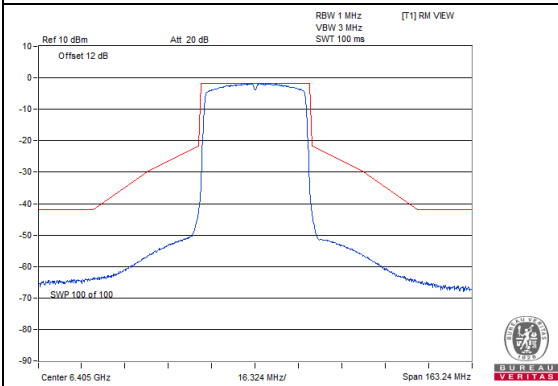
CH35



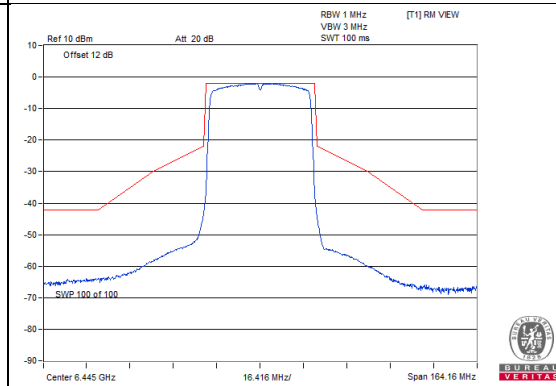
CH59



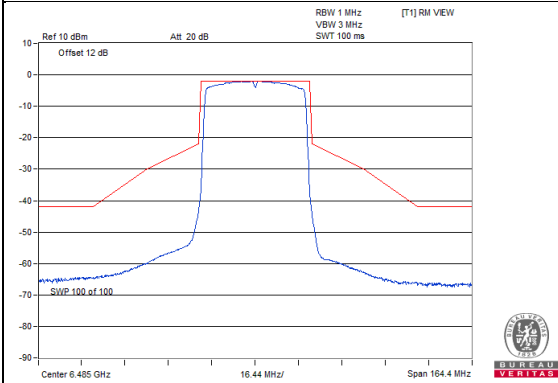
CH91



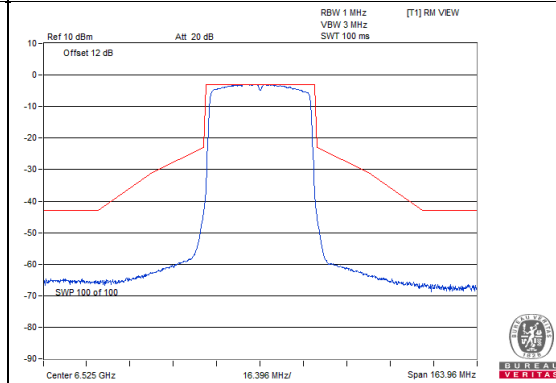
CH99



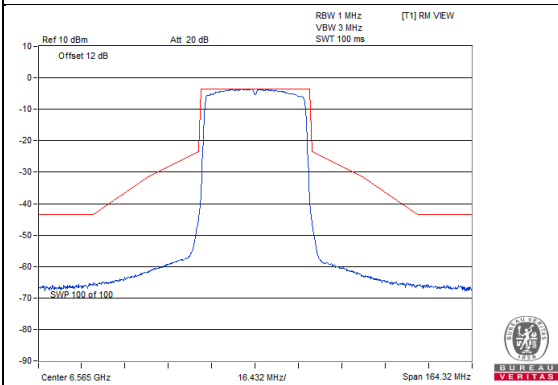
CH107



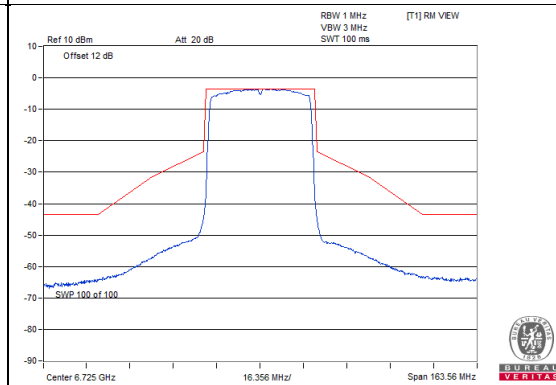
CH115



CH123



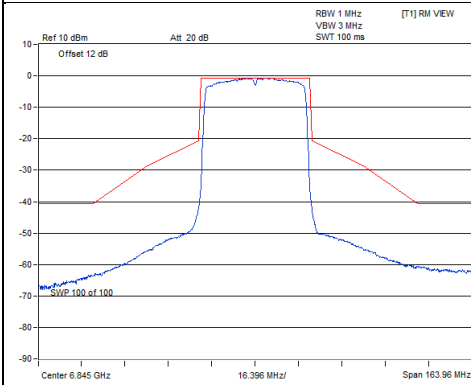
CH155



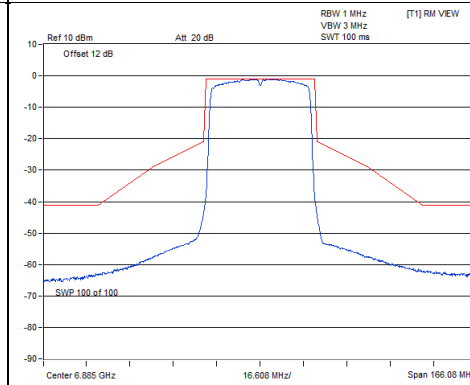
Spectrum Plot of Worst Value

Chain 2

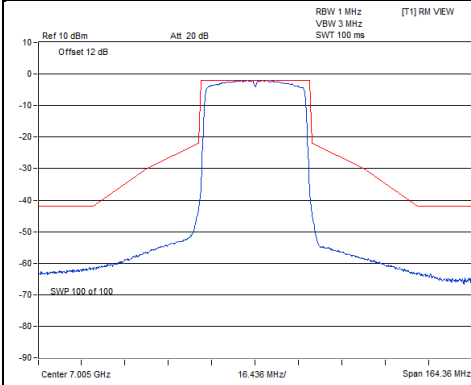
CH179



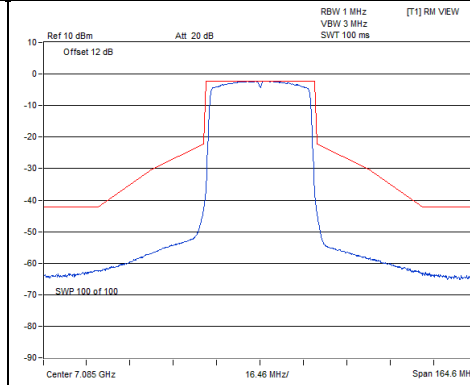
CH187



CH211

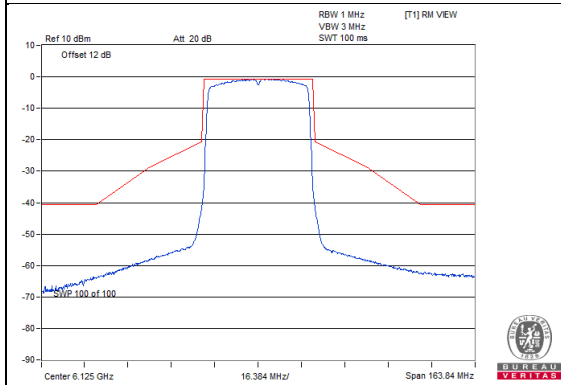


CH227

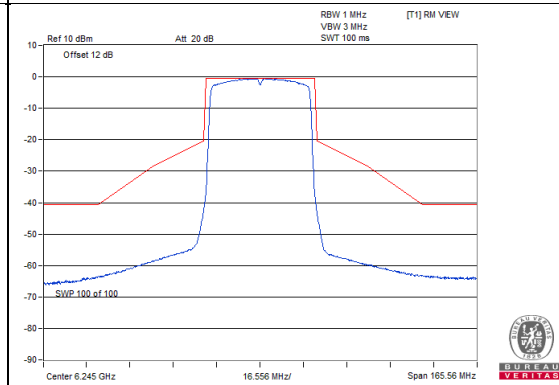


Spectrum Plot of Worst Value

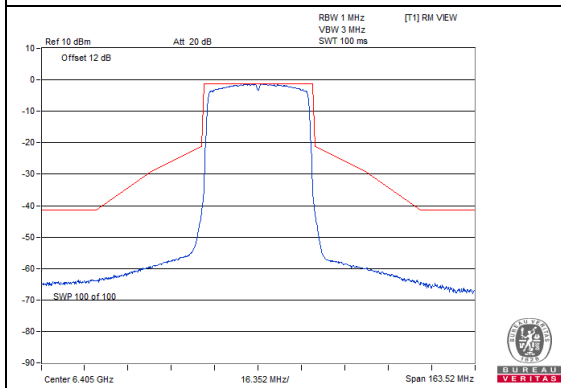
Chain 3 CH35



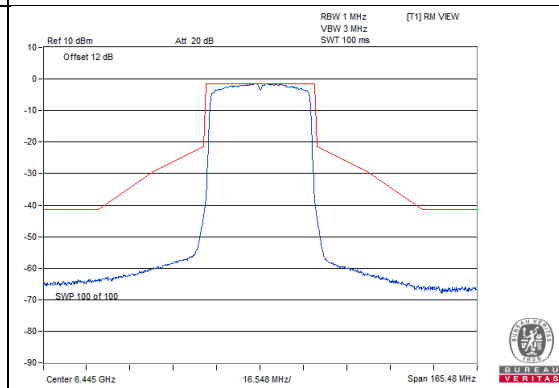
CH59



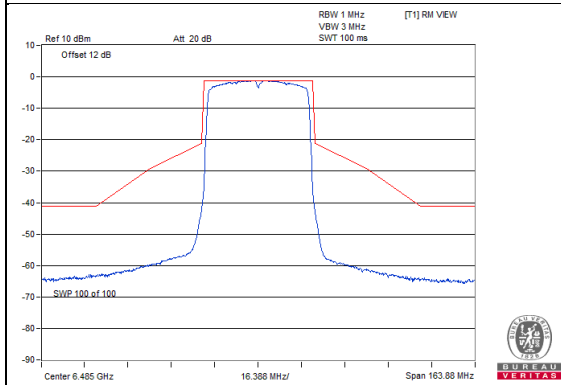
CH91



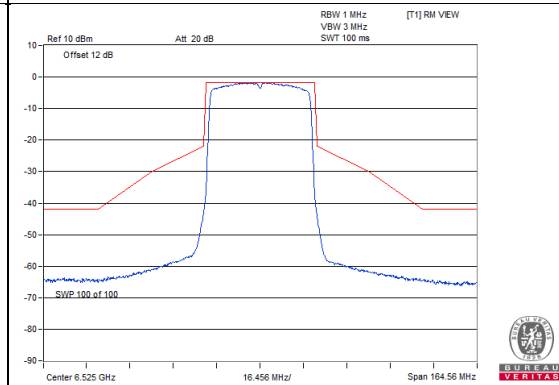
CH99



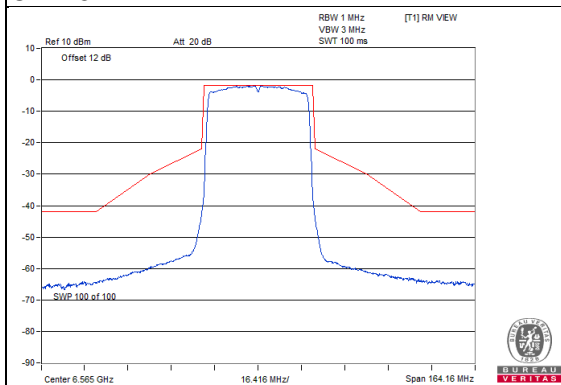
CH107



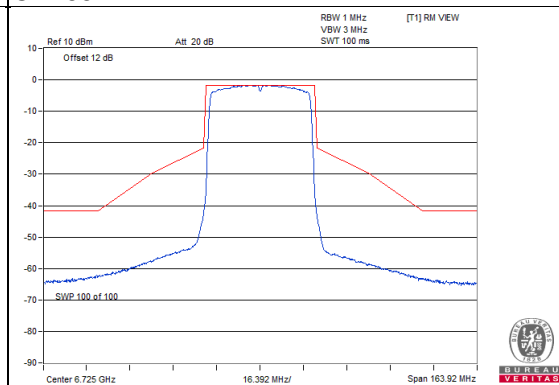
CH115



CH123



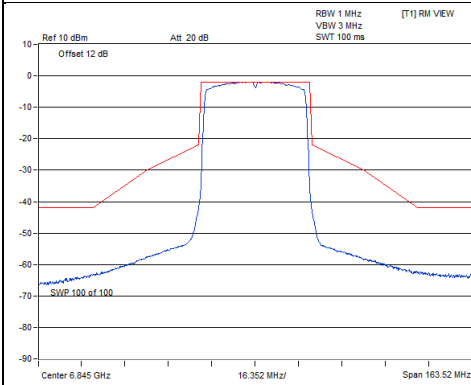
CH155



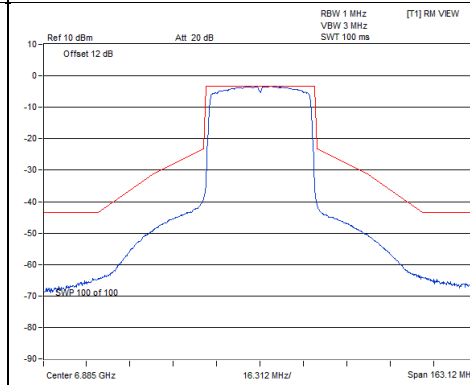
Spectrum Plot of Worst Value

Chain 3

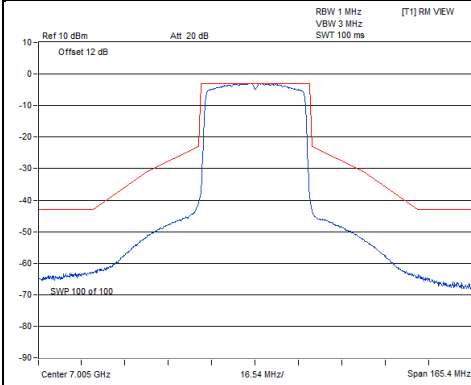
CH179



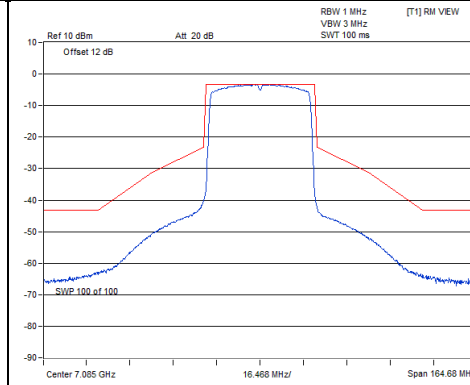
CH187



CH211



CH227

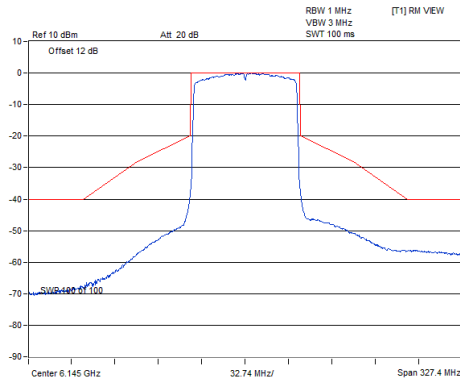


802.11ax (HE80)

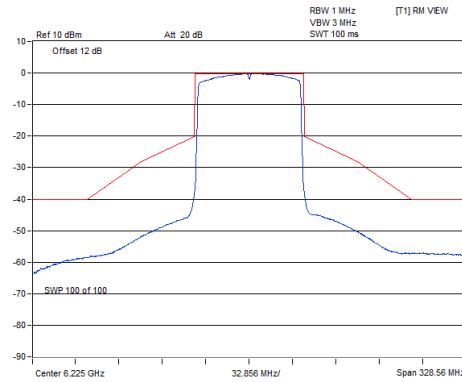
Spectrum Plot of Worst Value

Chain 0

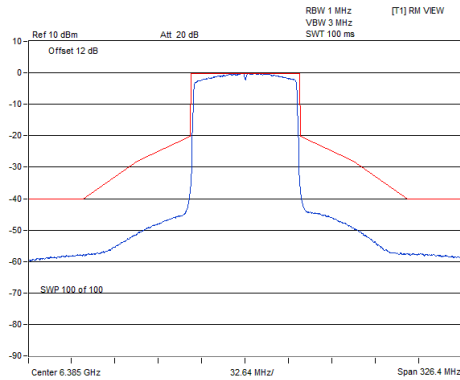
CH39



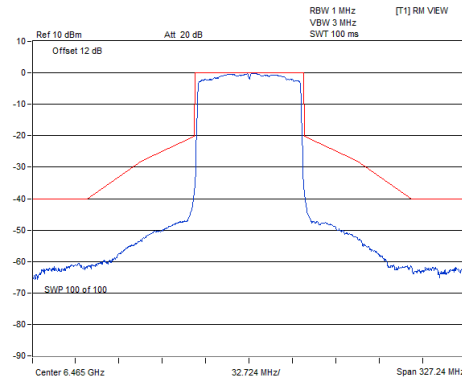
CH55



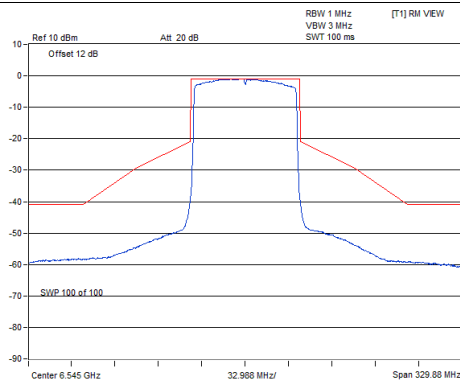
CH87



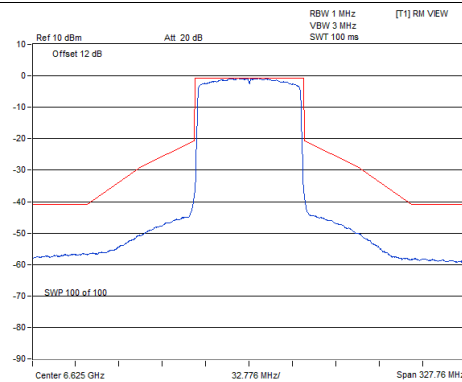
CH103



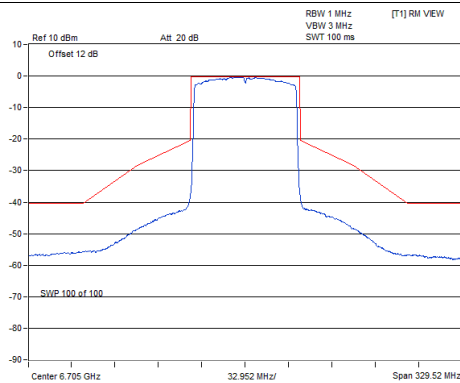
CH119



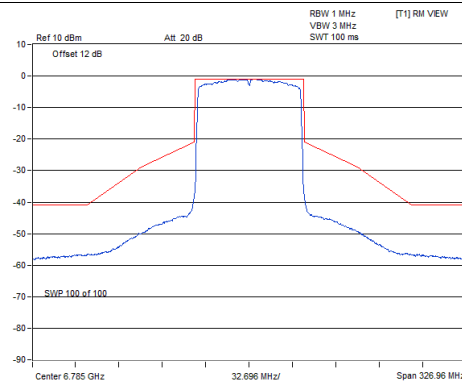
CH135



CH151



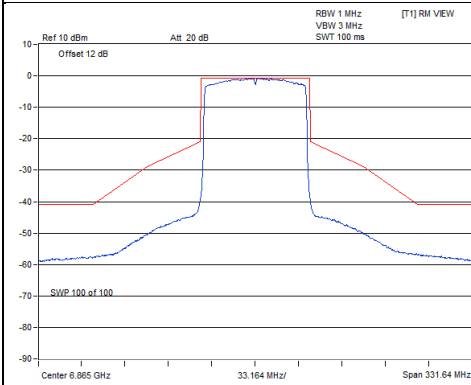
CH167



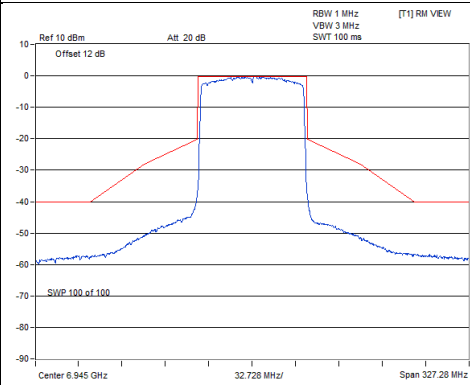
Spectrum Plot of Worst Value

Chain 0

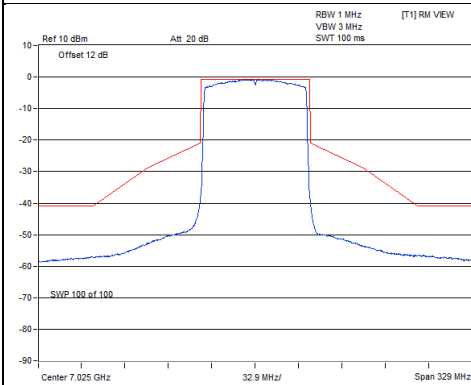
CH183



CH199

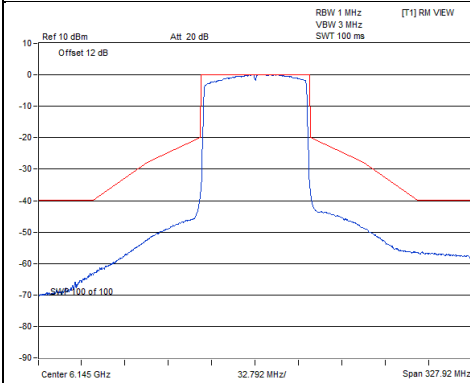


CH215

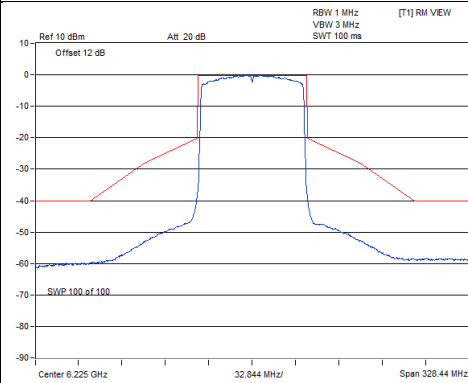


Spectrum Plot of Worst Value

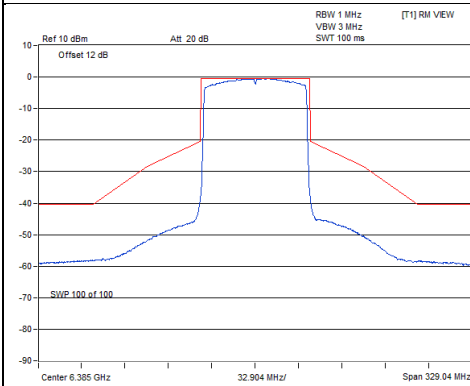
Chain 1 CH39



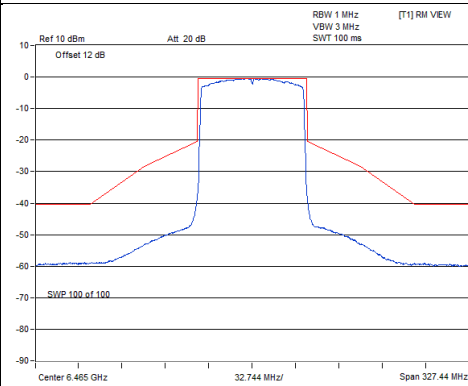
CH55



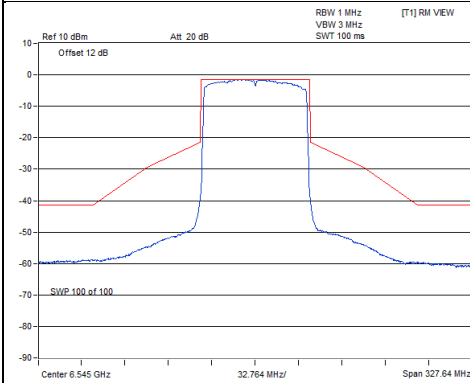
CH87



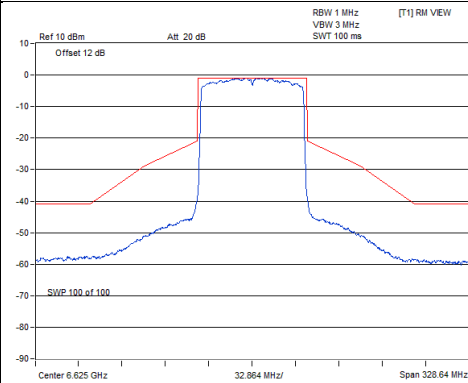
CH103



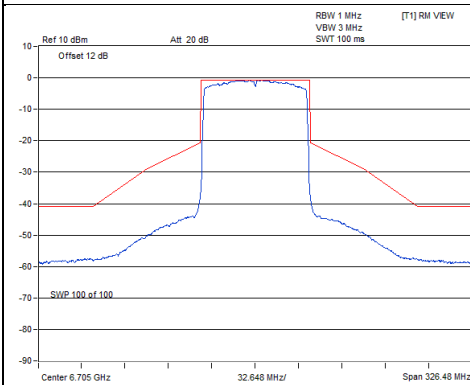
CH119



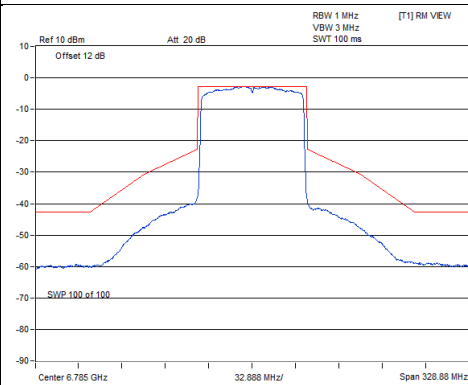
CH135



CH151



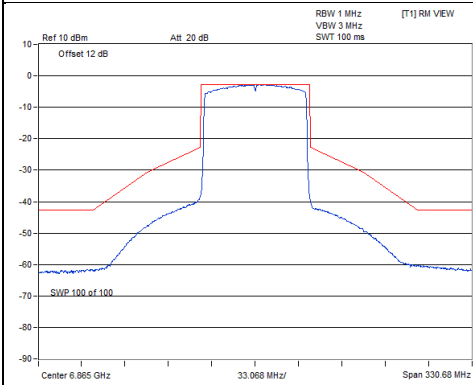
CH167



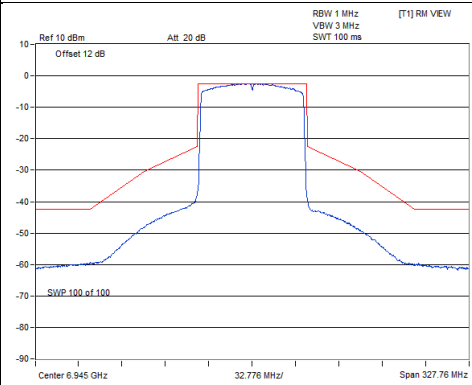
Spectrum Plot of Worst Value

Chain 1

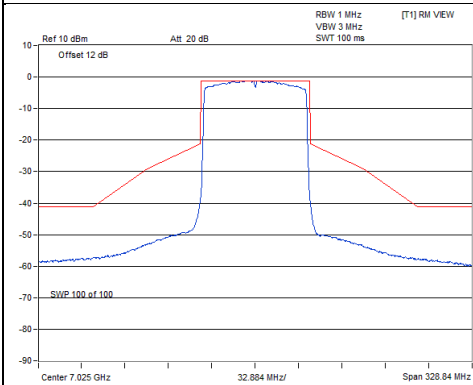
CH183



CH199



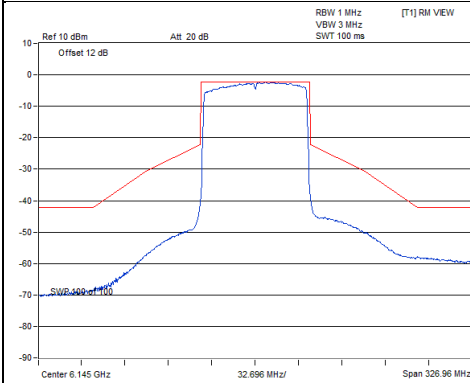
CH215



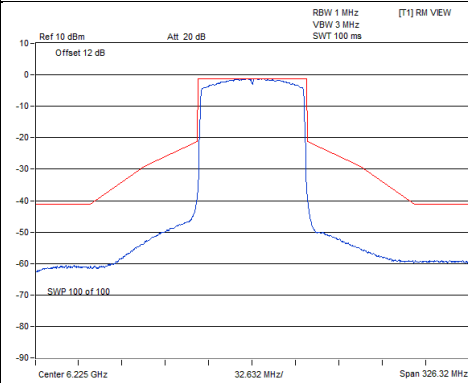
Spectrum Plot of Worst Value

Chain 2

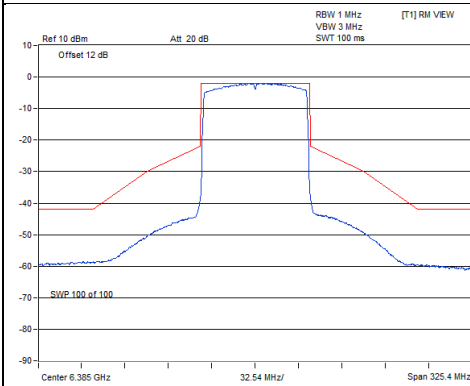
CH39



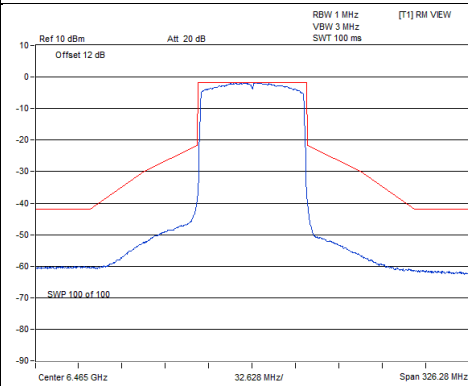
CH55



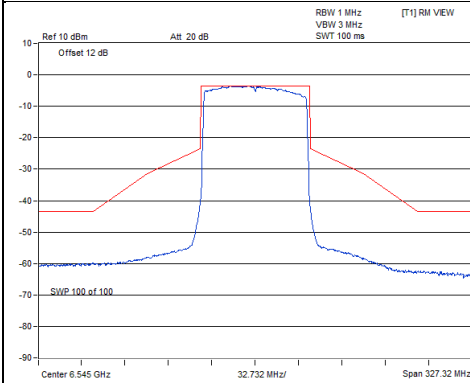
CH87



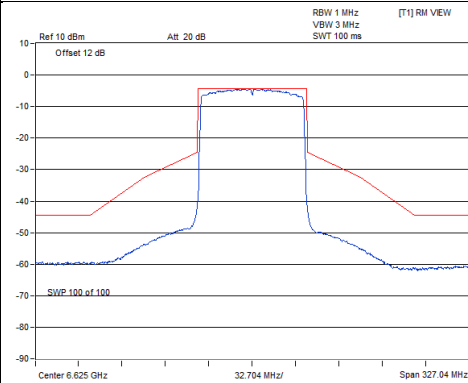
CH103



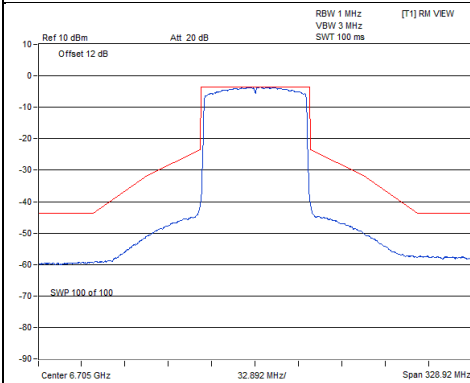
CH119



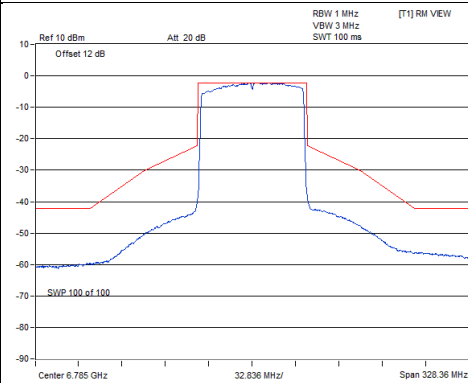
CH135



CH151



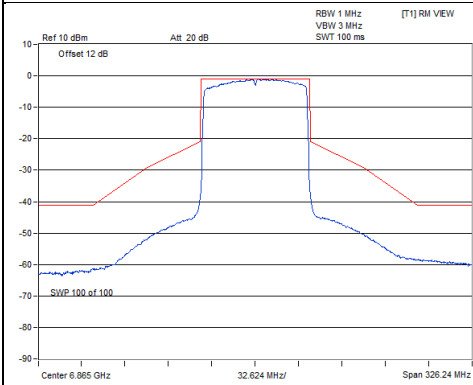
CH167



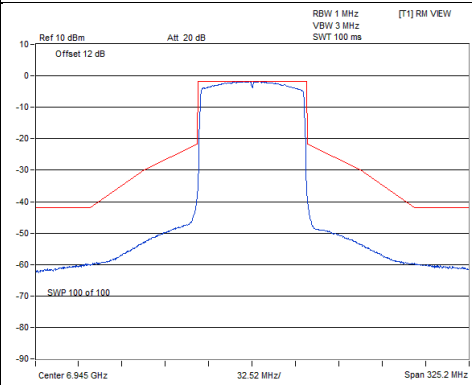
Spectrum Plot of Worst Value

Chain 2

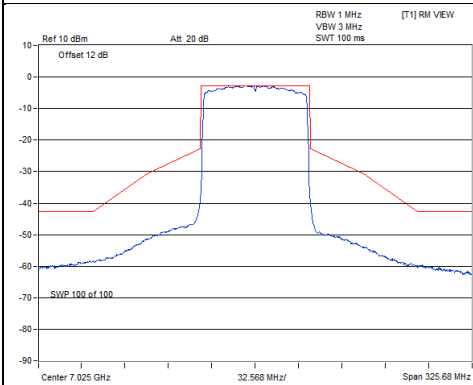
CH183



CH199

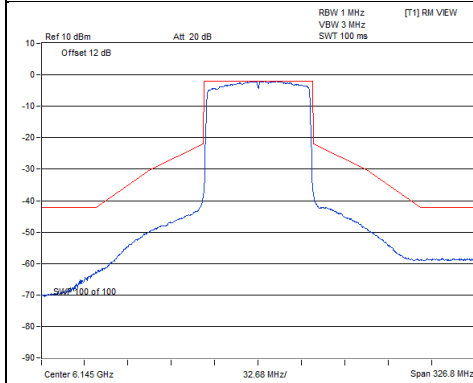


CH215

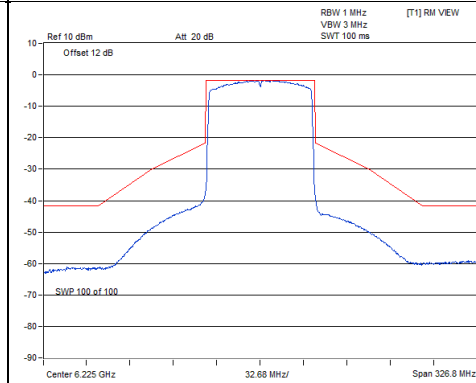


Spectrum Plot of Worst Value

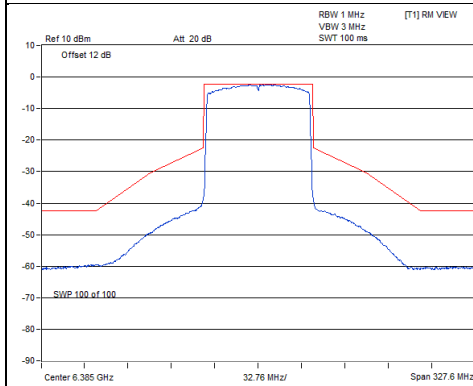
Chain 3 CH39



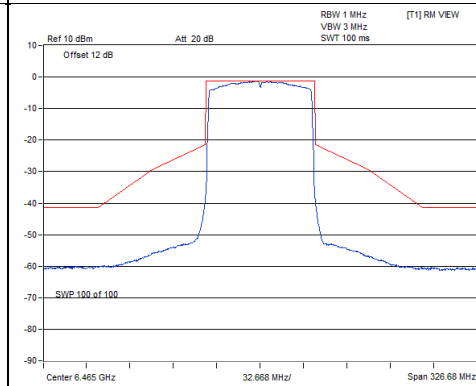
CH55



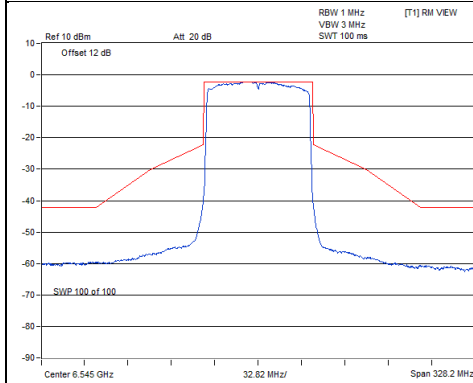
CH87



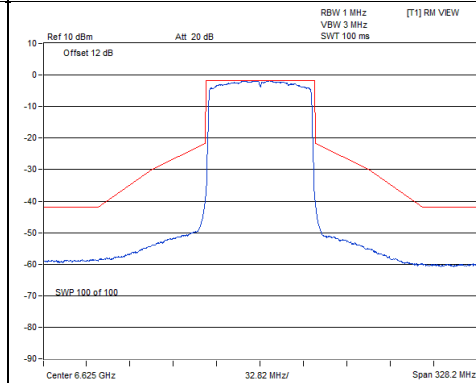
CH103



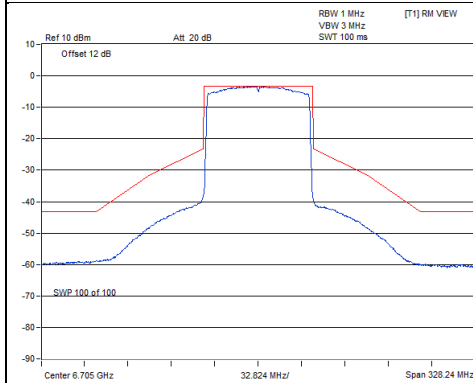
CH119



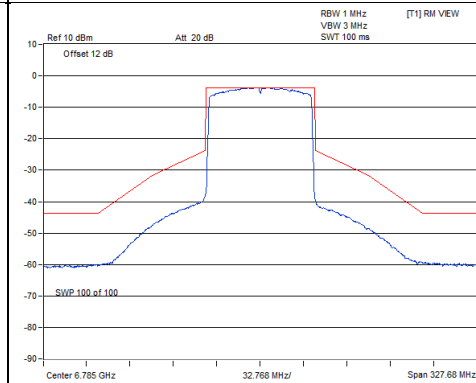
CH135



CH151



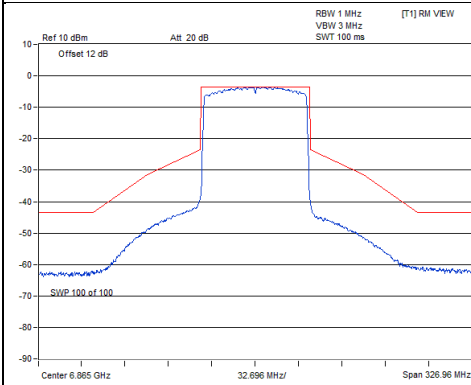
CH167



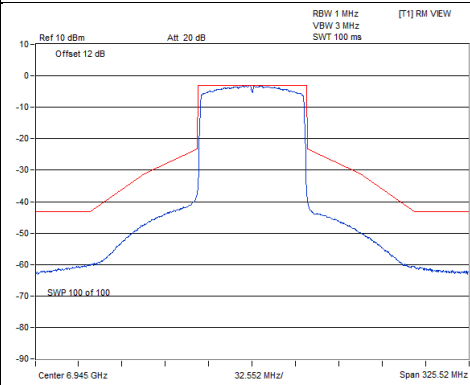
Spectrum Plot of Worst Value

Chain 3

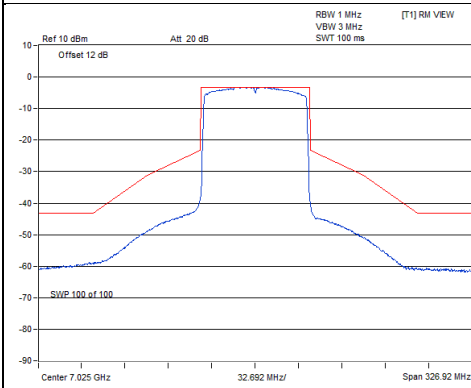
CH183



CH199



CH215

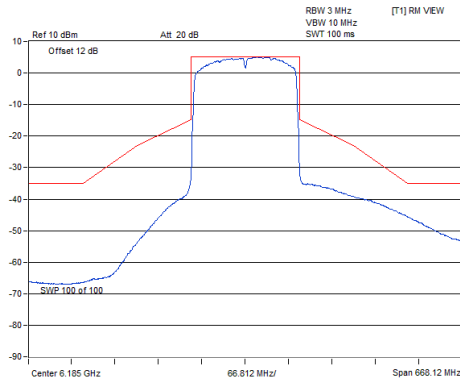


802.11ax (HE160)

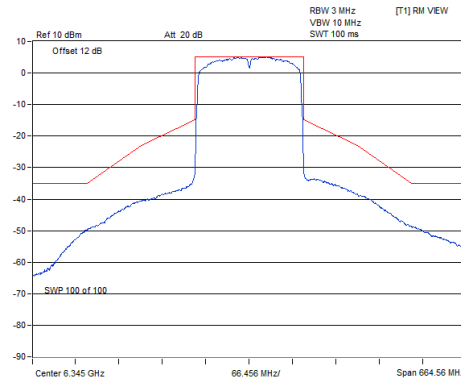
Spectrum Plot of Worst Value

Chain 0

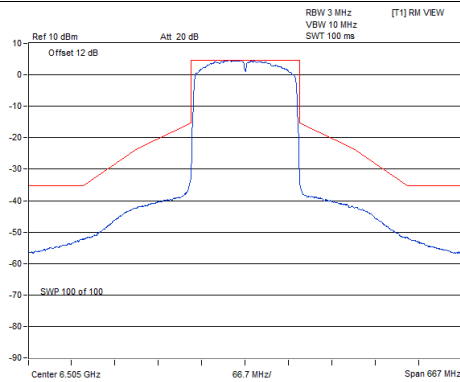
CH47



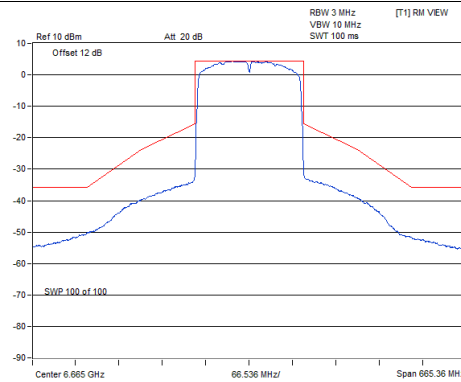
CH79



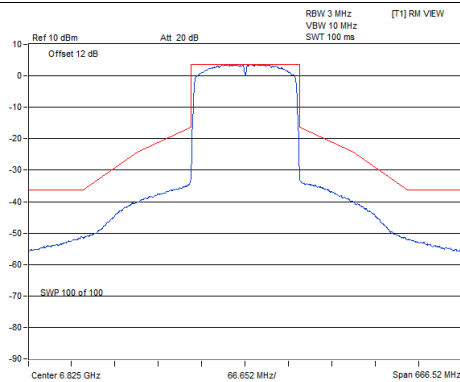
CH111



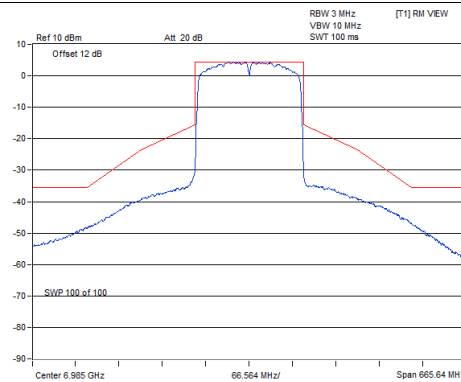
CH143



CH175

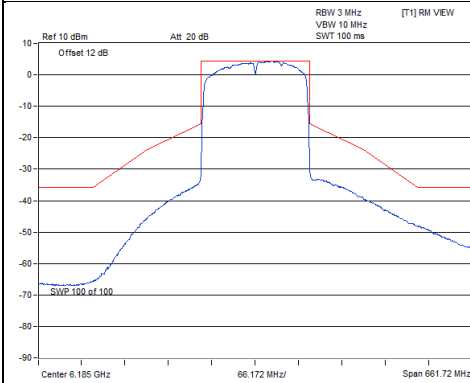


CH207

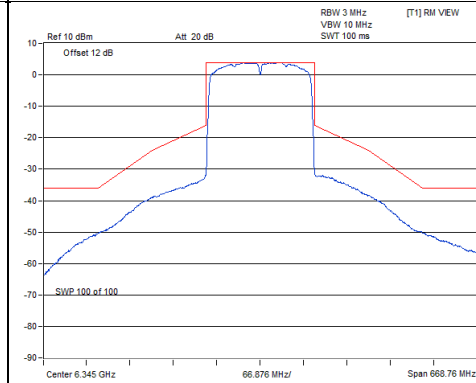


Spectrum Plot of Worst Value

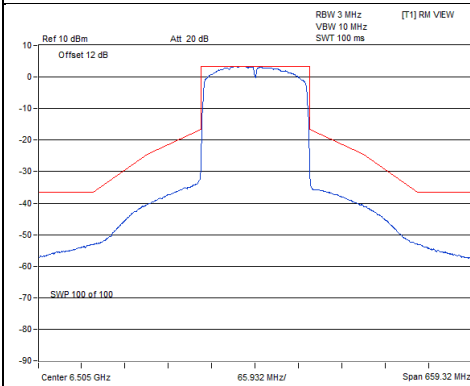
Chain 1 CH47



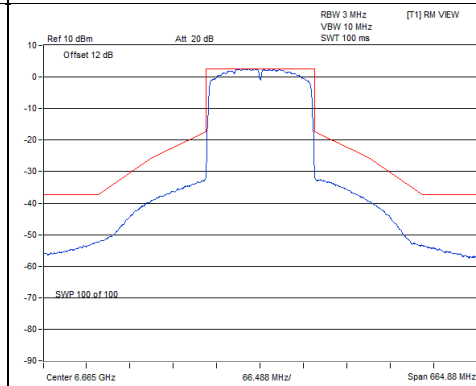
CH79



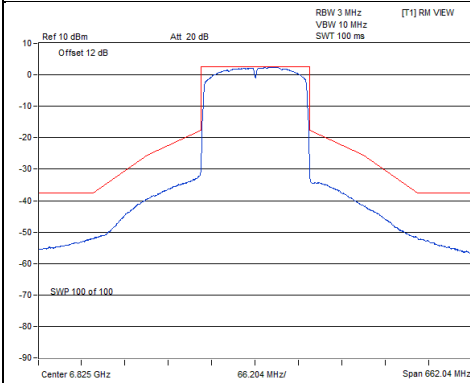
CH111



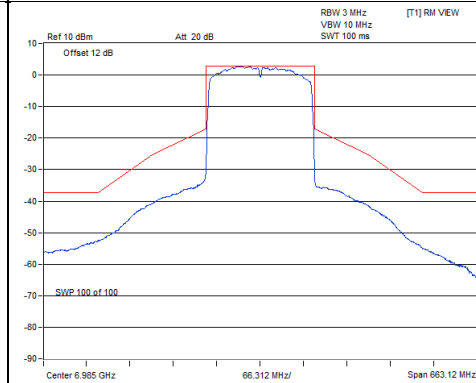
CH143



CH175

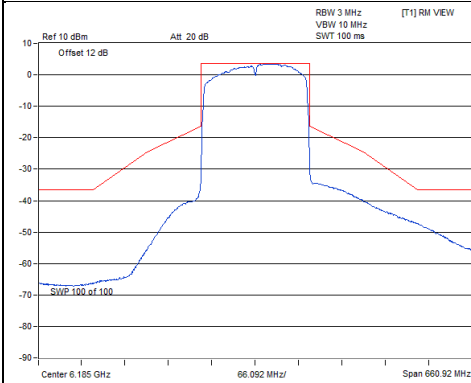


CH207

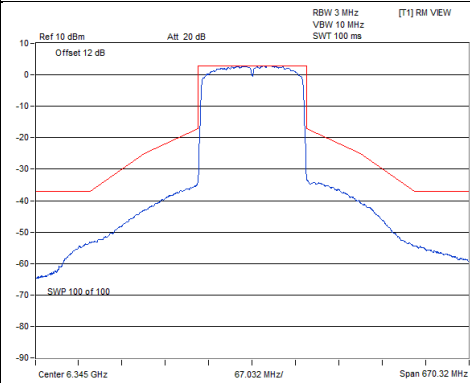


Spectrum Plot of Worst Value

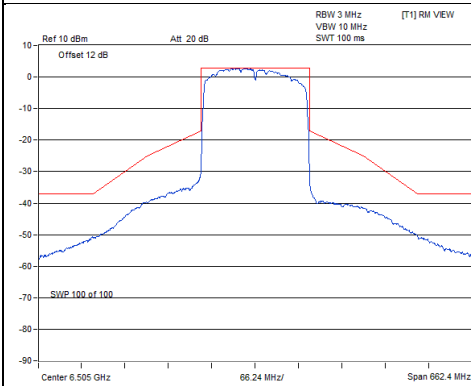
Chain 2 CH47



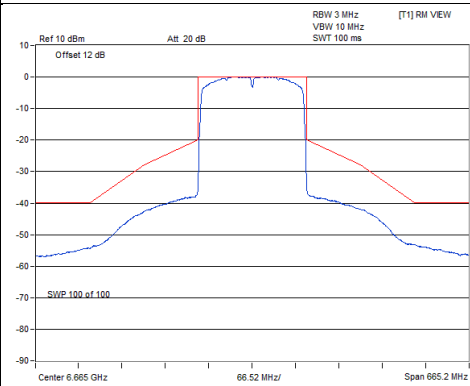
CH79



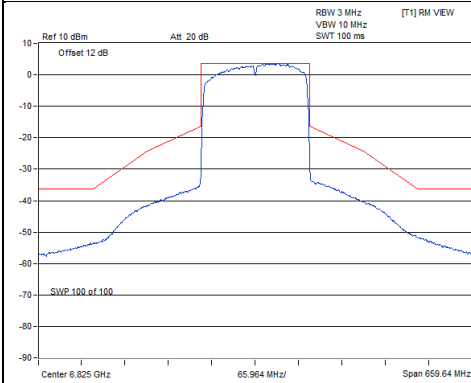
CH111



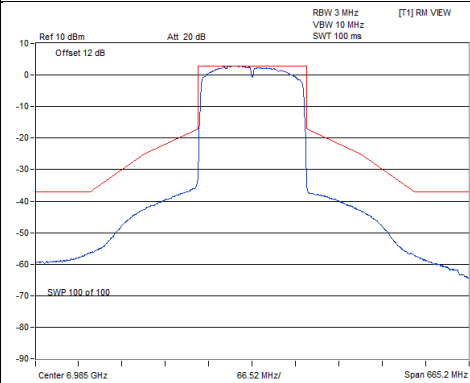
CH143



CH175

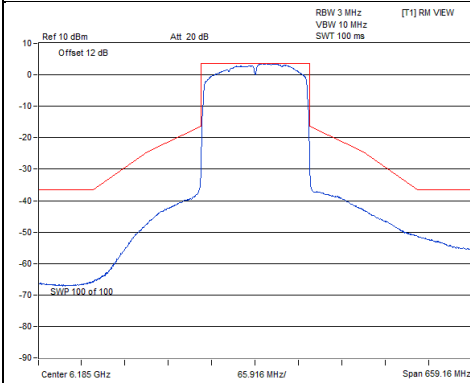


CH207

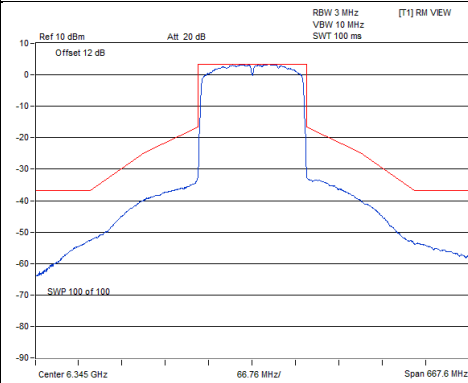


Spectrum Plot of Worst Value

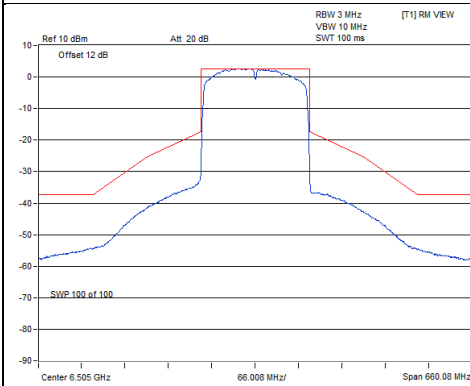
Chain 3 CH47



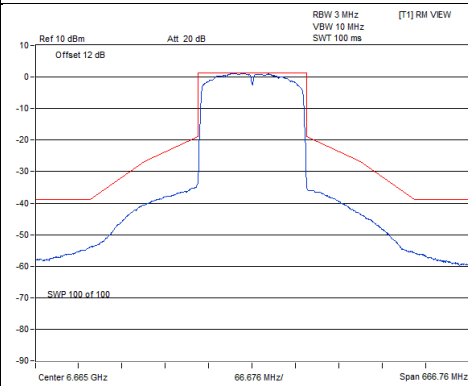
CH79



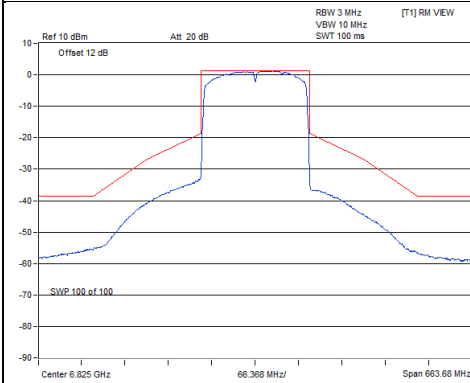
CH111



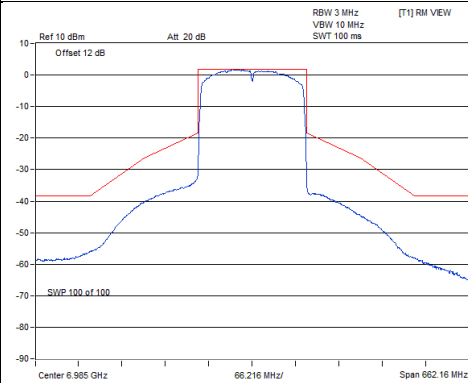
CH143



CH175

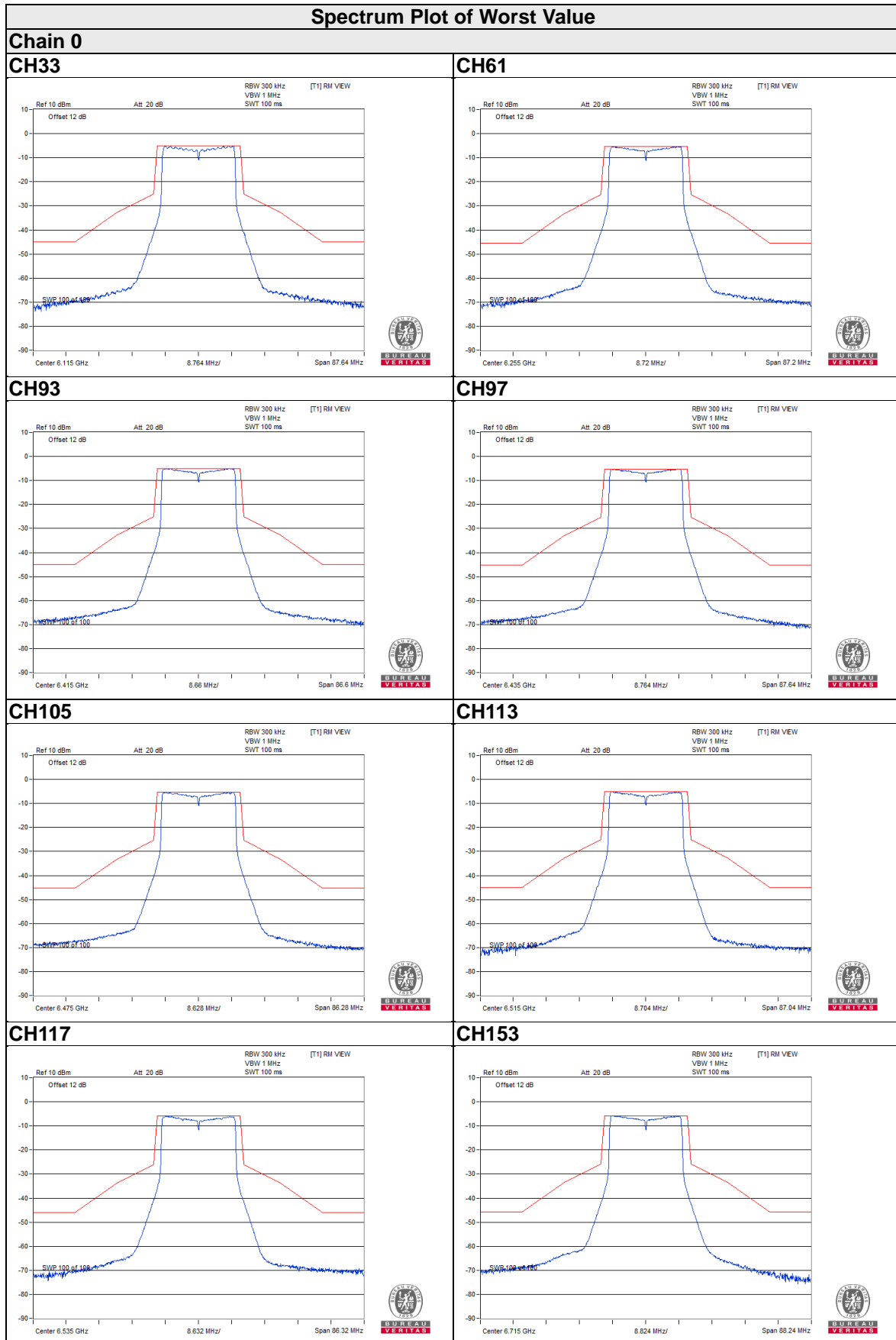


CH207



Beamforming Mode

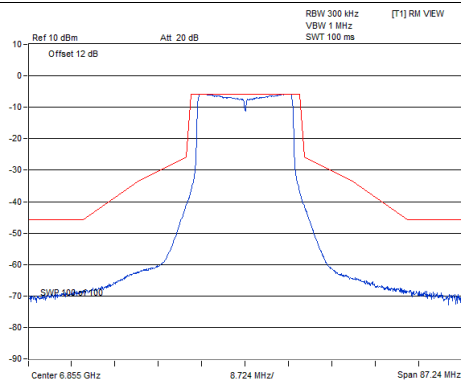
802.11ax (HE20)



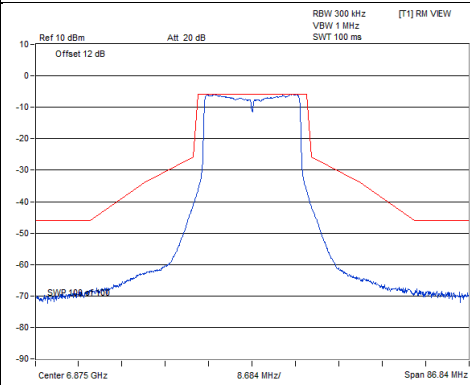
Spectrum Plot of Worst Value

Chain 0

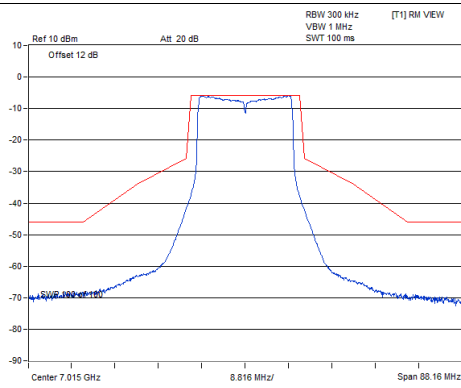
CH181



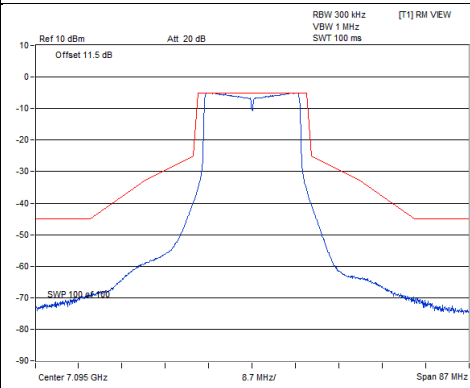
CH185



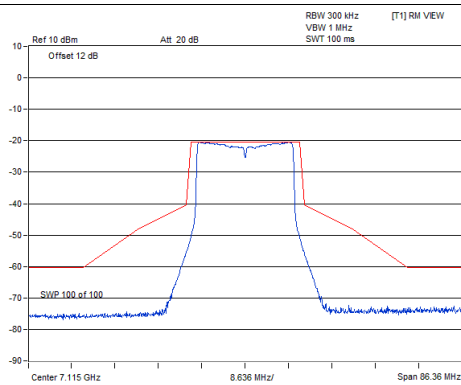
CH213



CH229

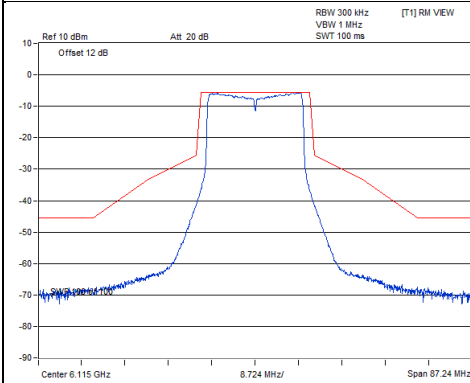


CH233

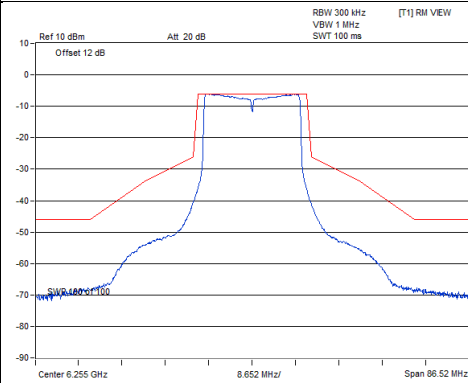


Spectrum Plot of Worst Value

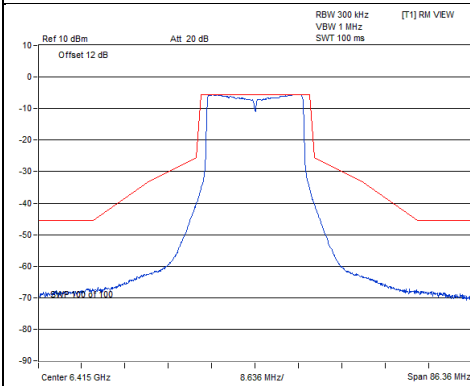
Chain 1 CH33



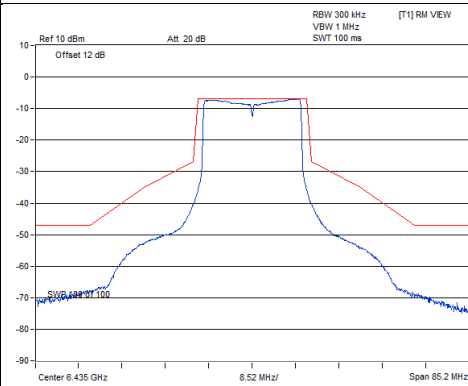
CH61



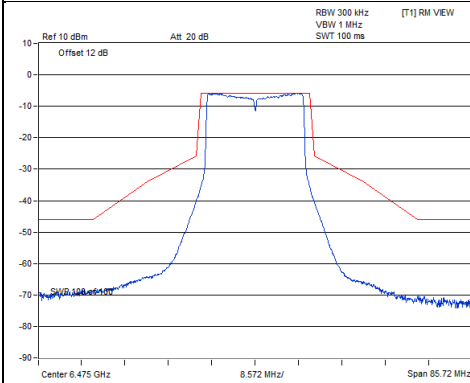
CH93



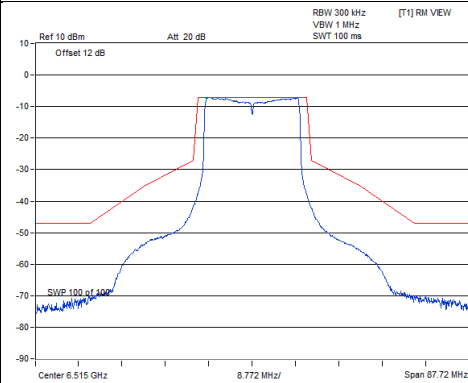
CH97



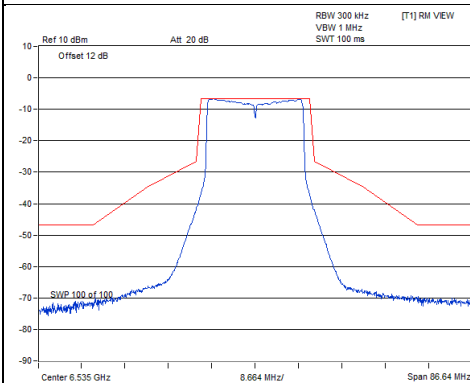
CH105



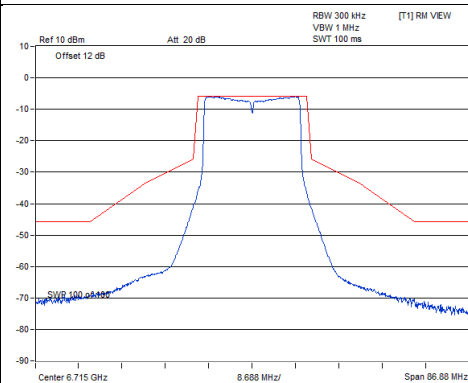
CH113



CH117



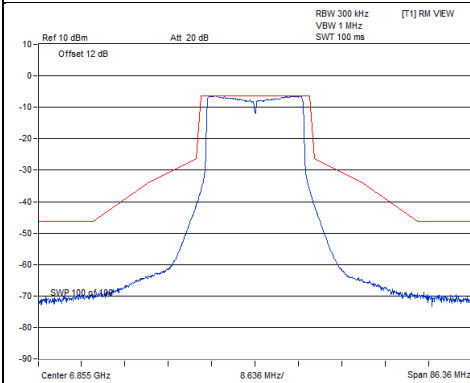
CH153



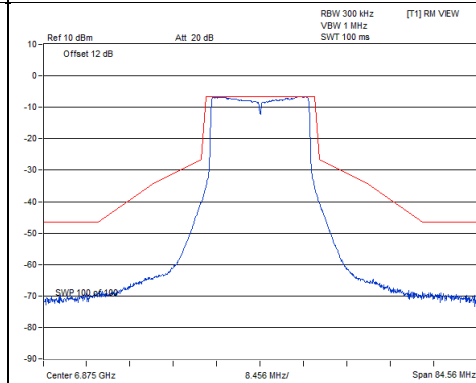
Spectrum Plot of Worst Value

Chain 1

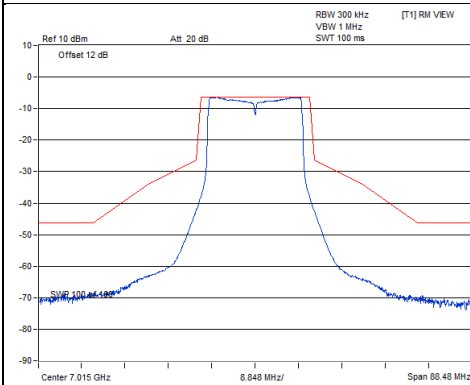
CH181



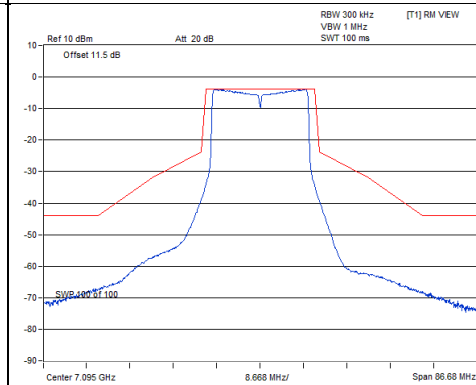
CH185



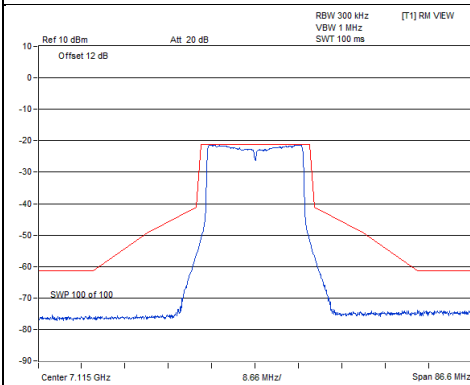
CH213



CH229



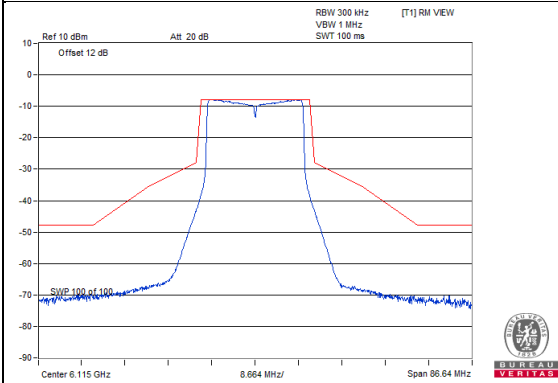
CH233



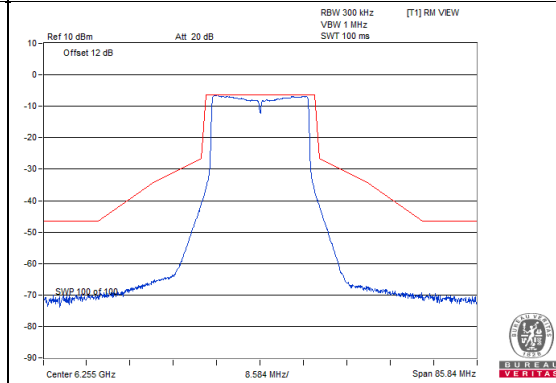
Spectrum Plot of Worst Value

Chain 2

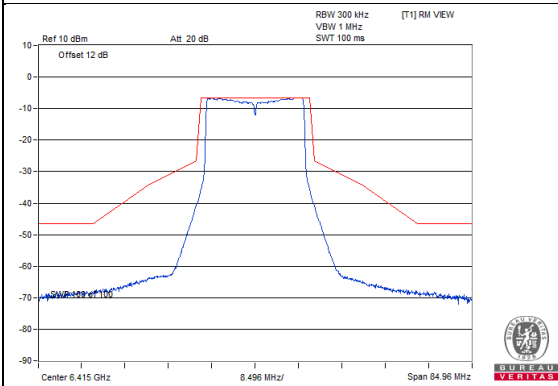
CH33



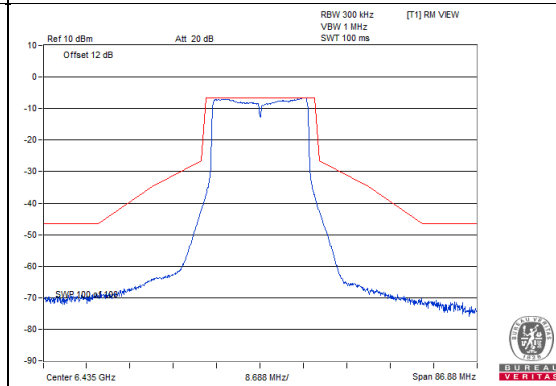
CH61



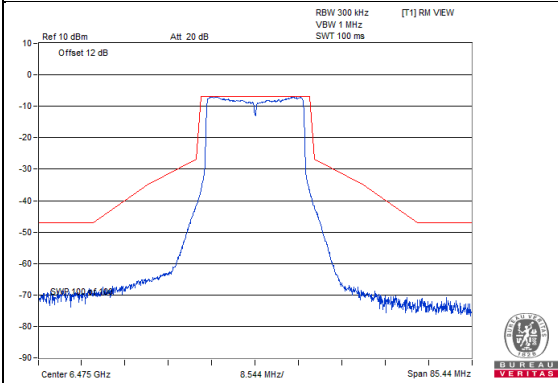
CH93



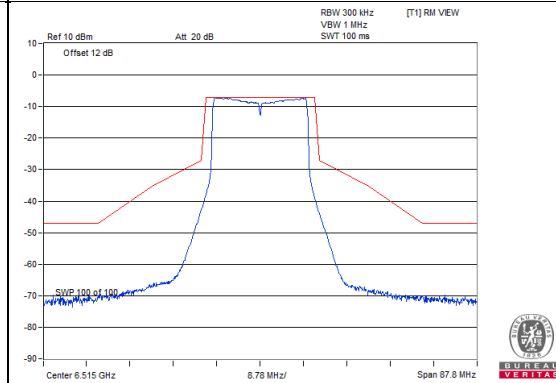
CH97



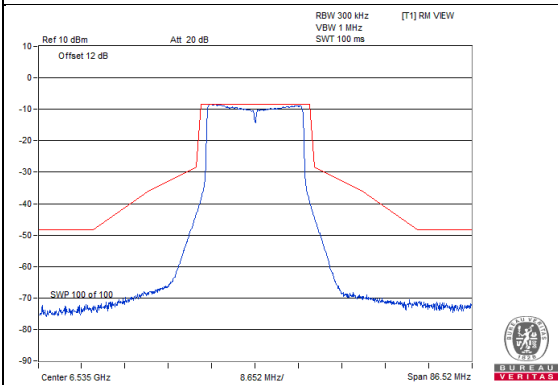
CH105



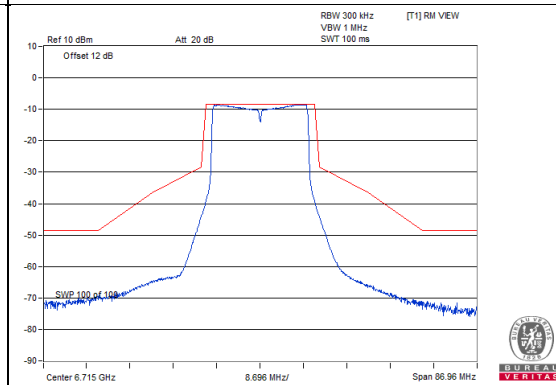
CH113



CH117



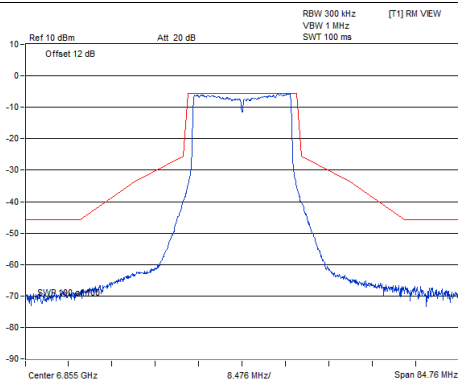
CH153



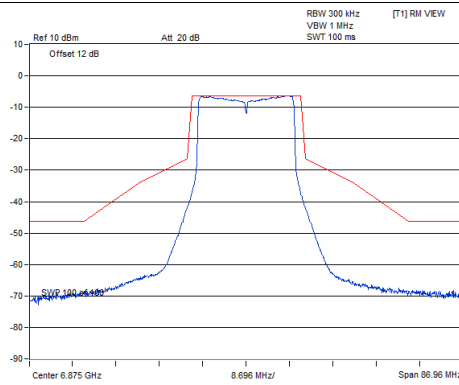
Spectrum Plot of Worst Value

Chain 2

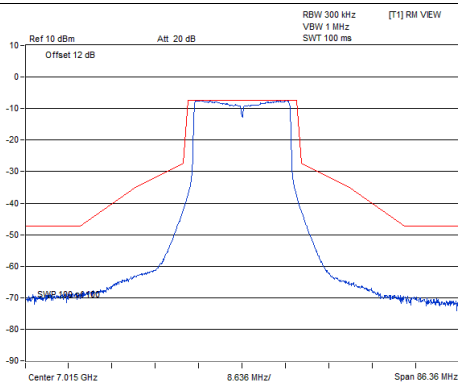
CH181



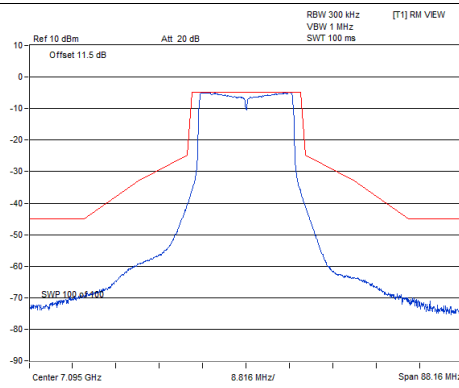
CH185



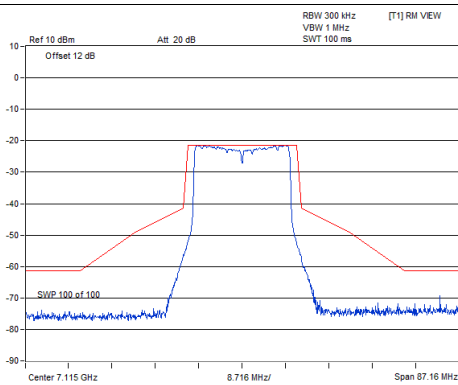
CH213



CH229

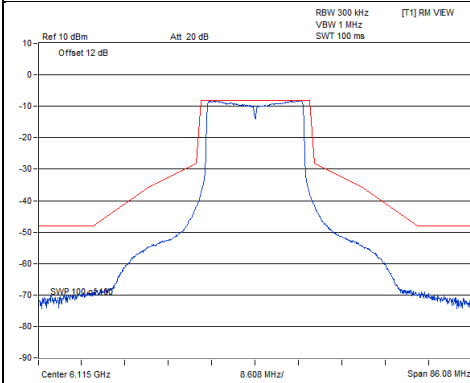


CH233

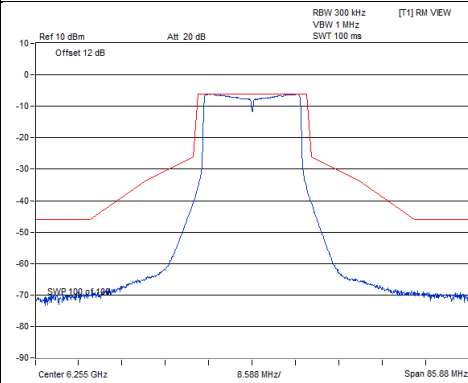


Spectrum Plot of Worst Value

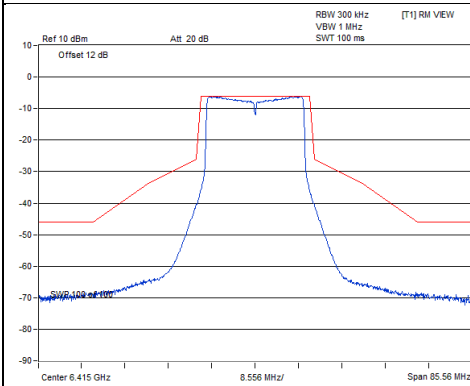
Chain 3 CH33



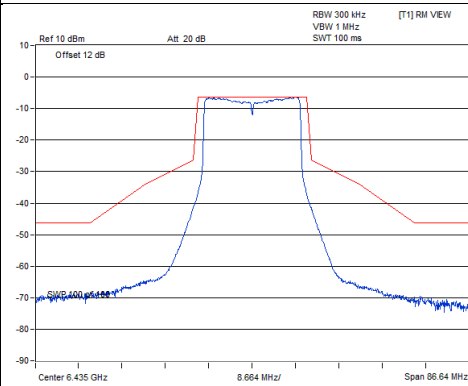
CH61



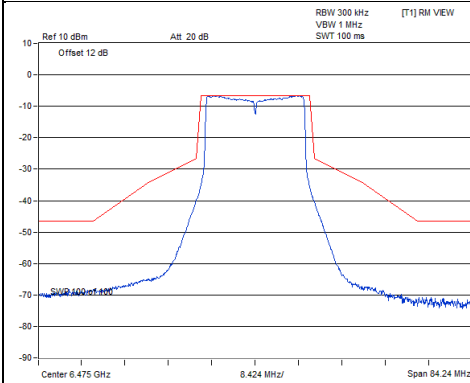
CH93



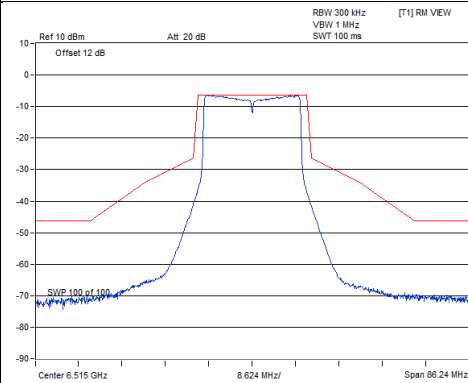
CH97



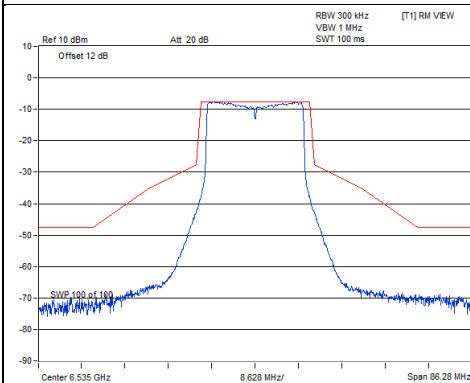
CH105



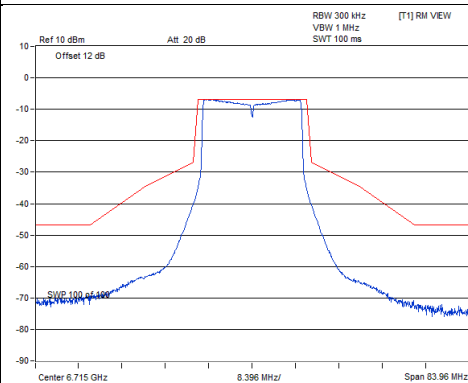
CH113



CH117



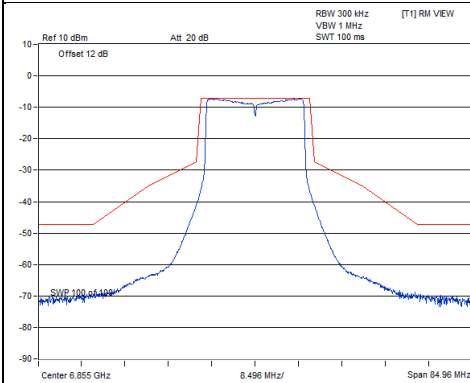
CH153



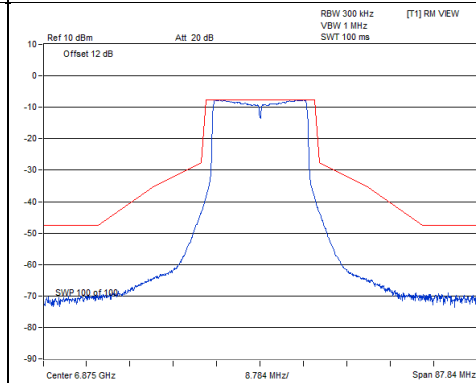
Spectrum Plot of Worst Value

Chain 3

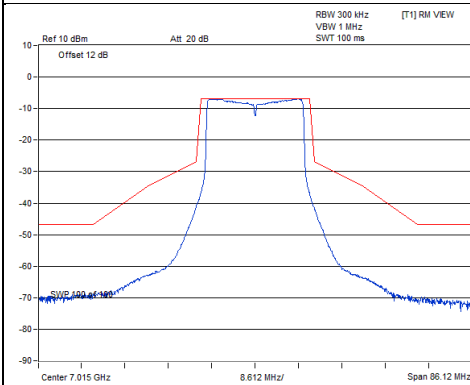
CH181



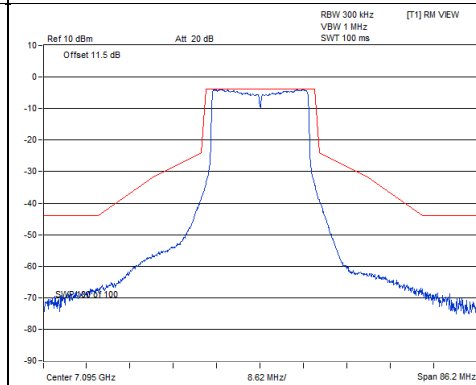
CH185



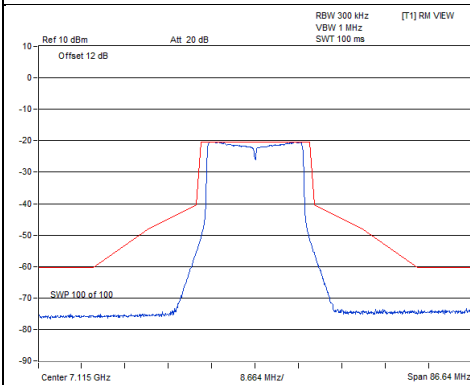
CH213



CH229



CH233

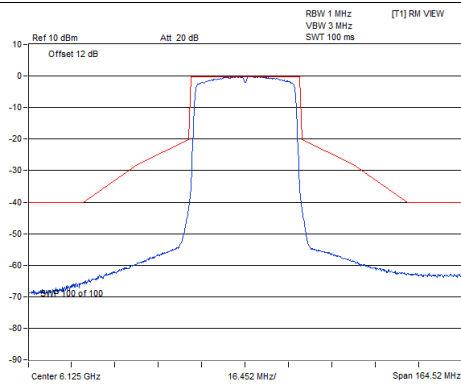


802.11ax (HE40)

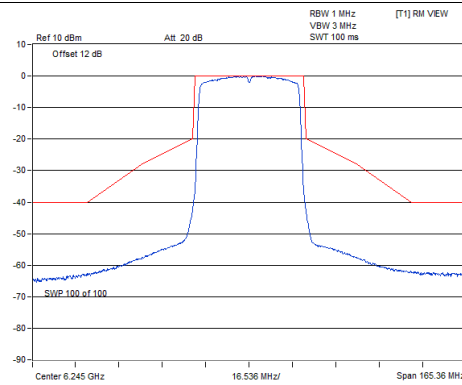
Spectrum Plot of Worst Value

Chain 0

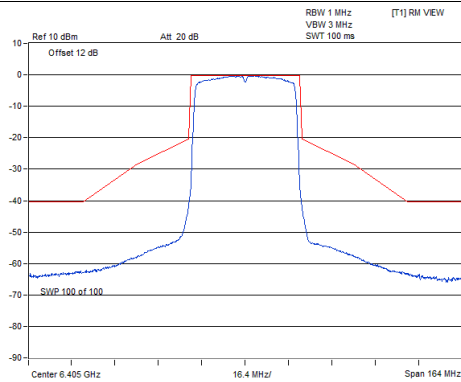
CH35



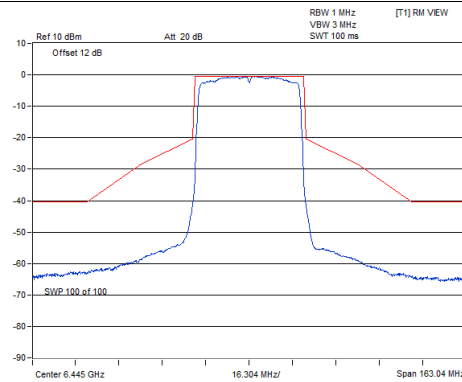
CH59



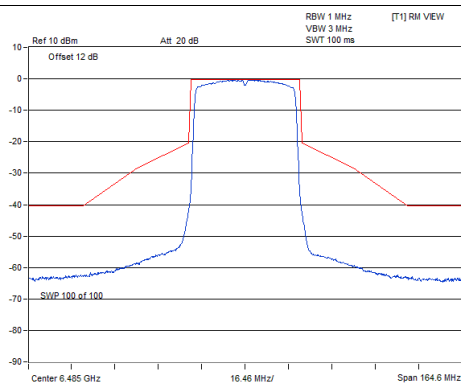
CH91



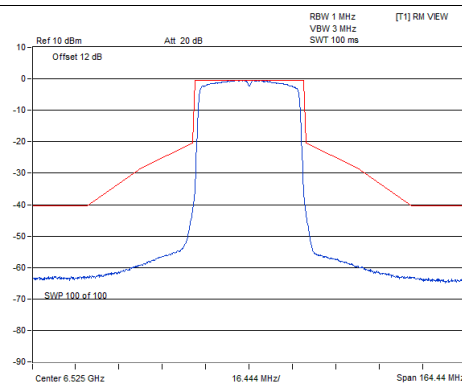
CH99



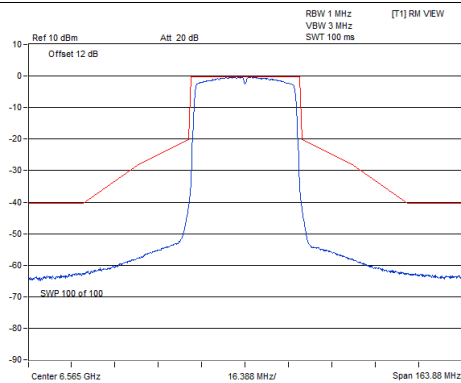
CH107



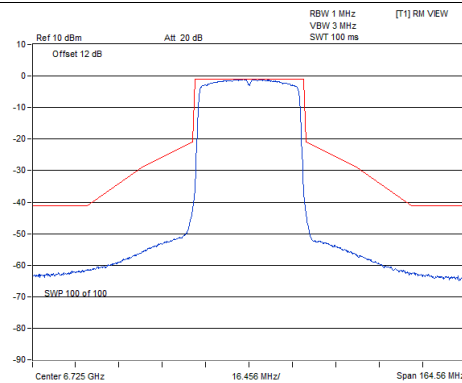
CH115



CH123



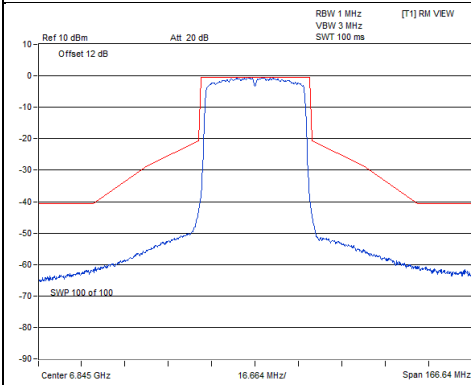
CH155



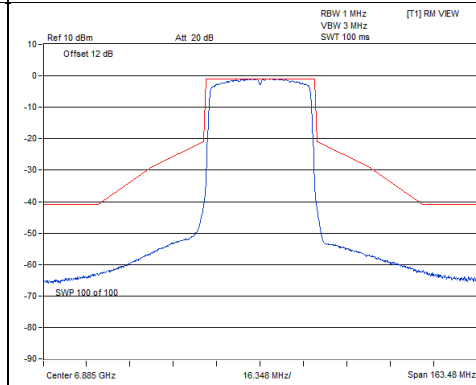
Spectrum Plot of Worst Value

Chain 0

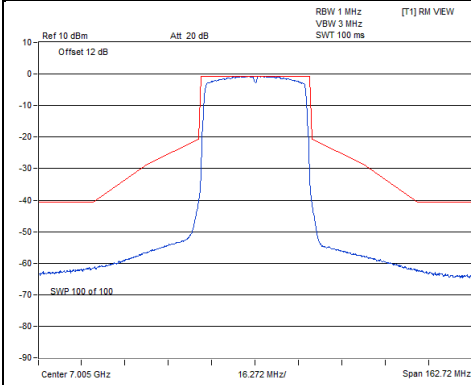
CH179



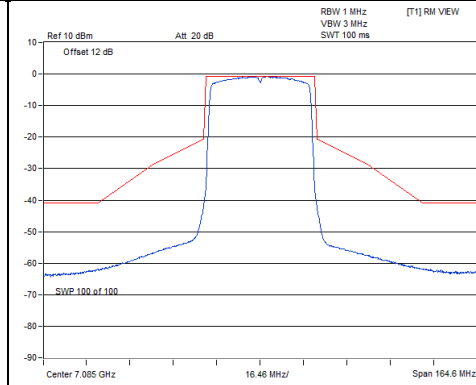
CH187



CH211

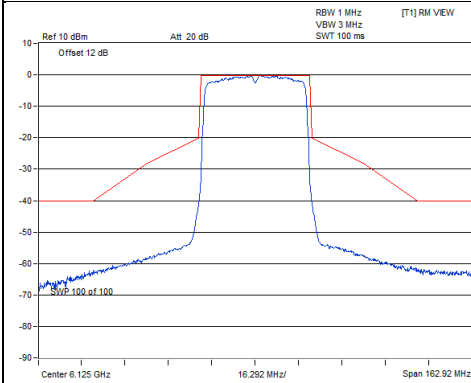


CH227

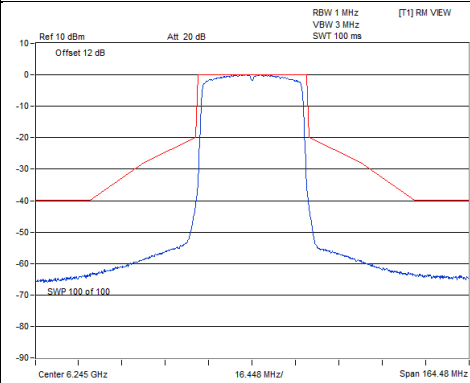


Spectrum Plot of Worst Value

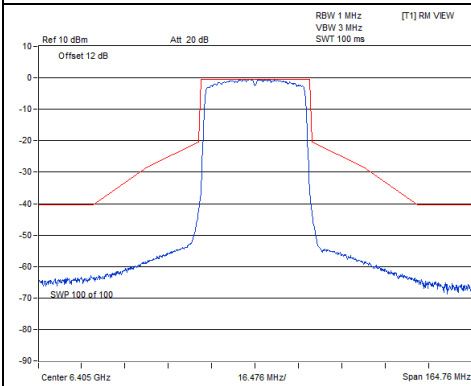
Chain 1 CH35



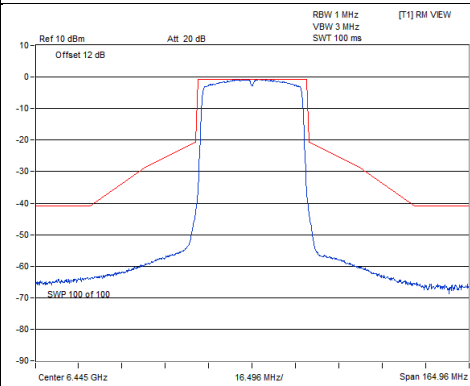
CH59



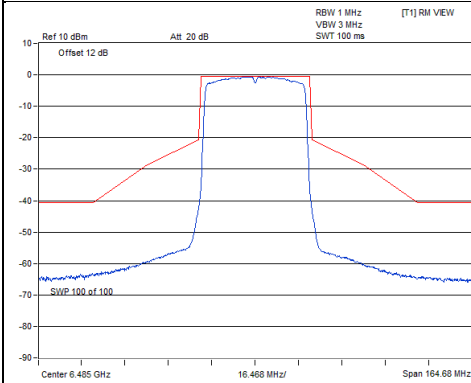
CH91



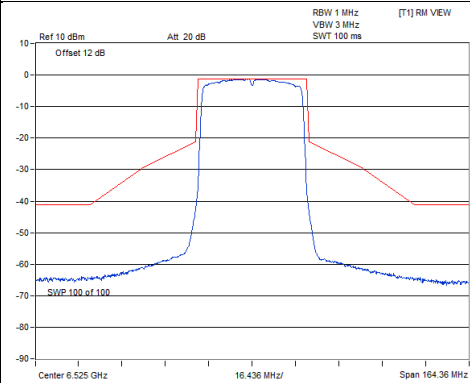
CH99



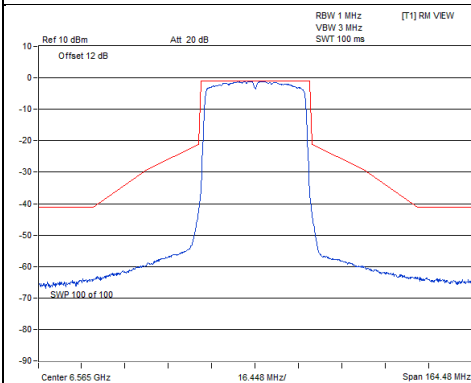
CH107



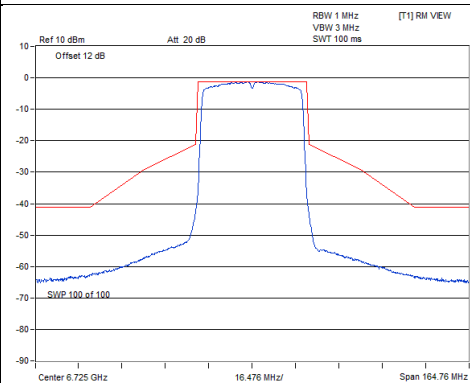
CH115



CH123



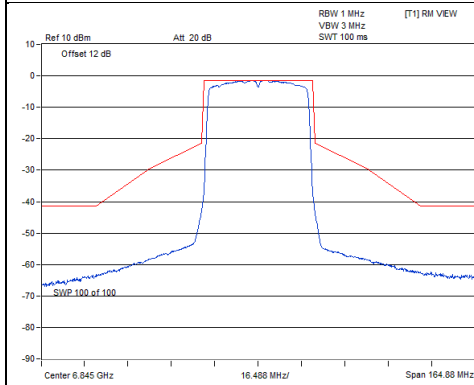
CH155



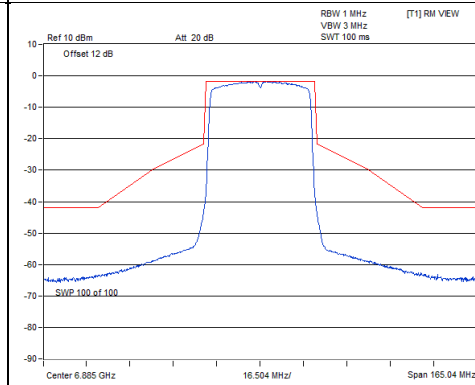
Spectrum Plot of Worst Value

Chain 1

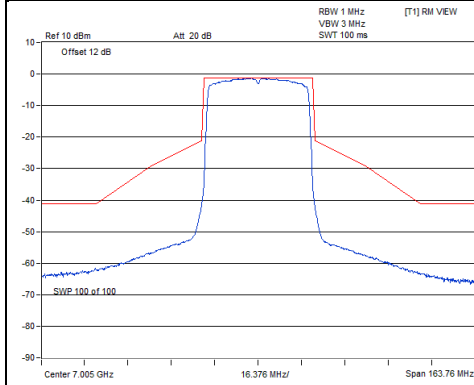
CH179



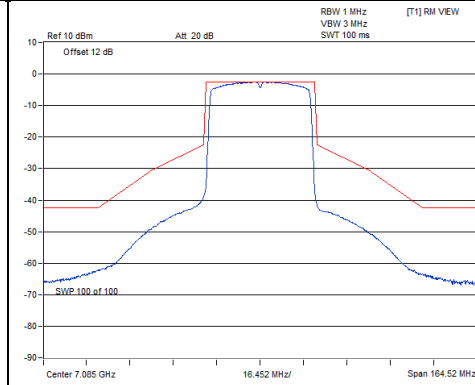
CH187



CH211



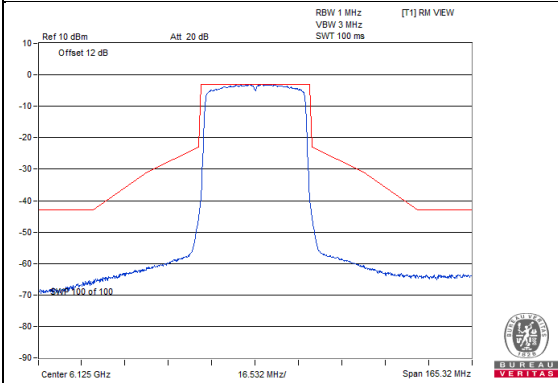
CH227



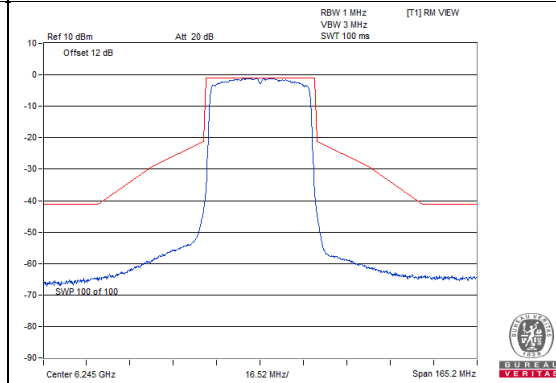
Spectrum Plot of Worst Value

Chain 2

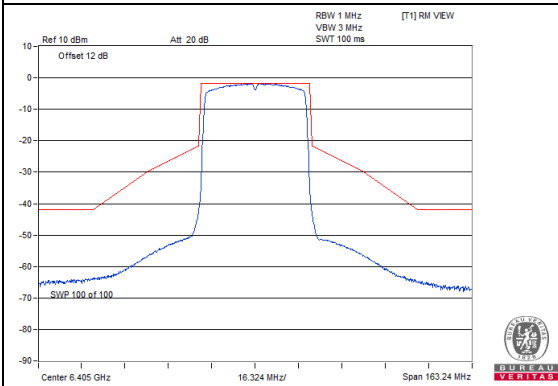
CH35



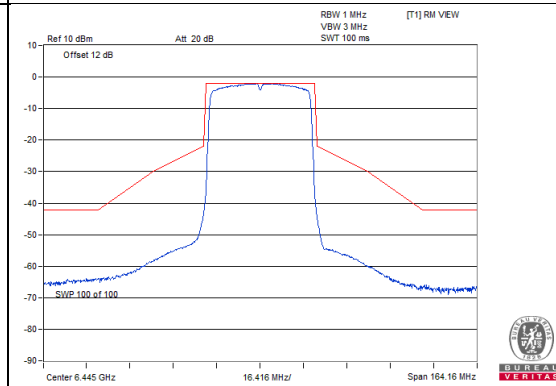
CH59



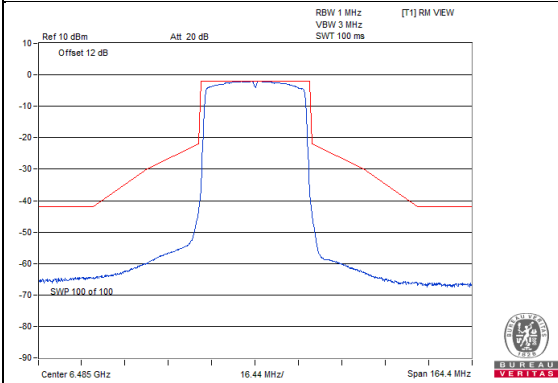
CH91



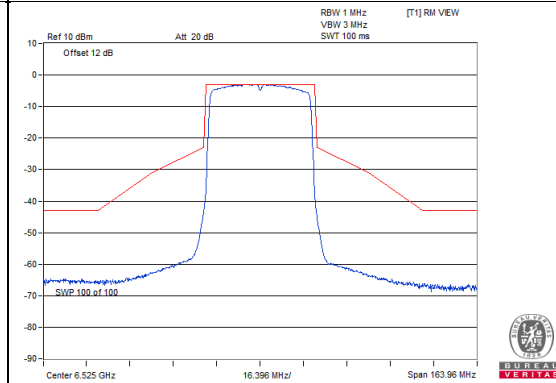
CH99



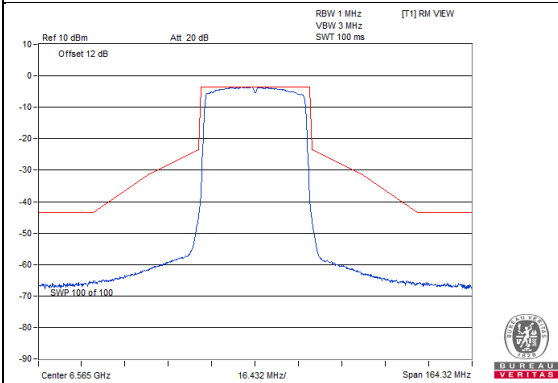
CH107



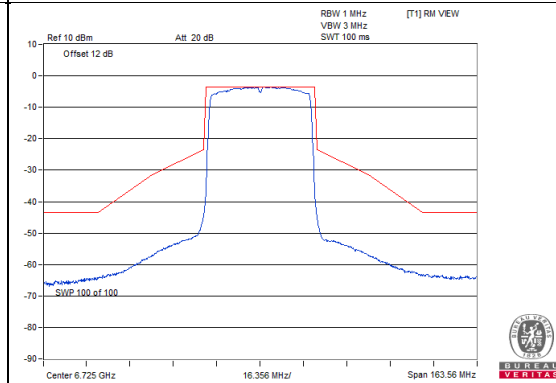
CH115



CH123



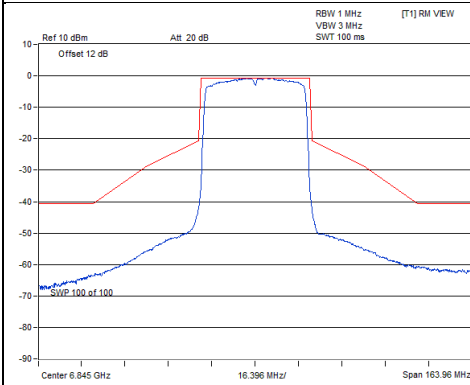
CH155



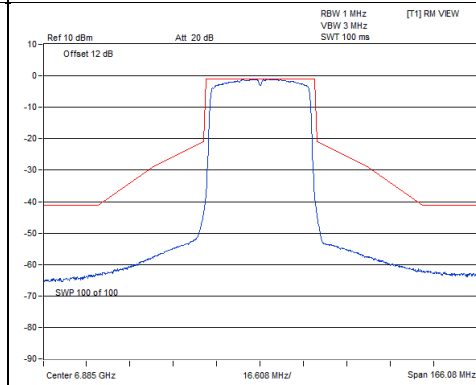
Spectrum Plot of Worst Value

Chain 2

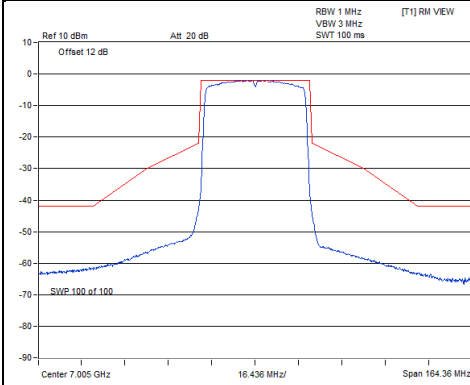
CH179



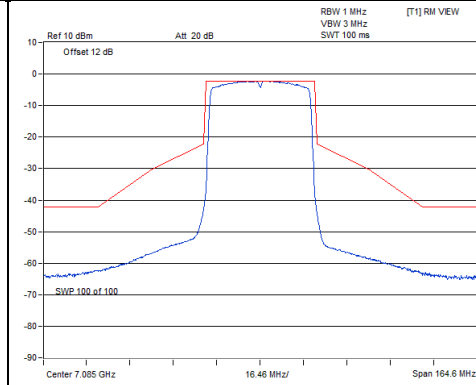
CH187



CH211



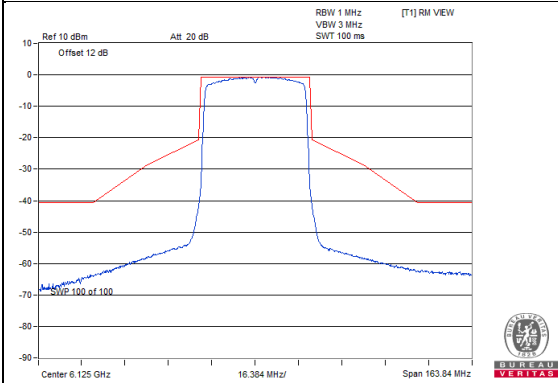
CH227



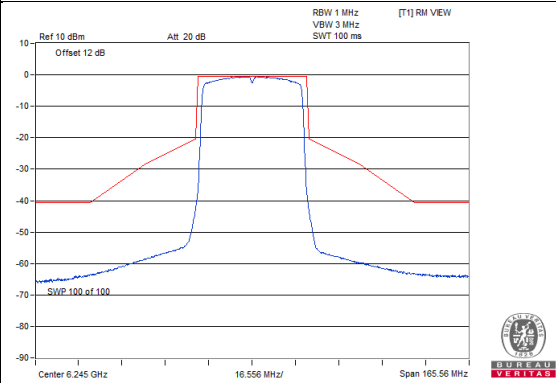
Spectrum Plot of Worst Value

Chain 3

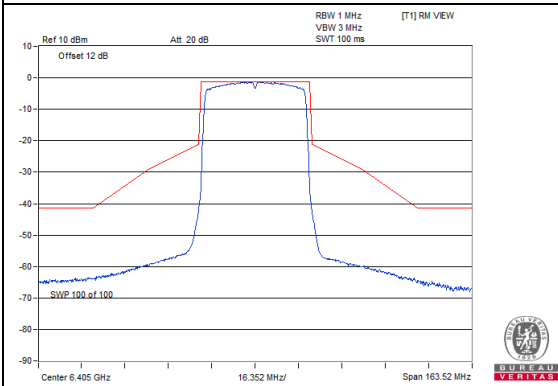
CH35



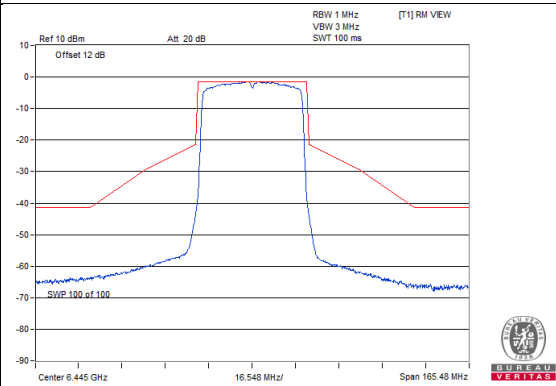
CH59



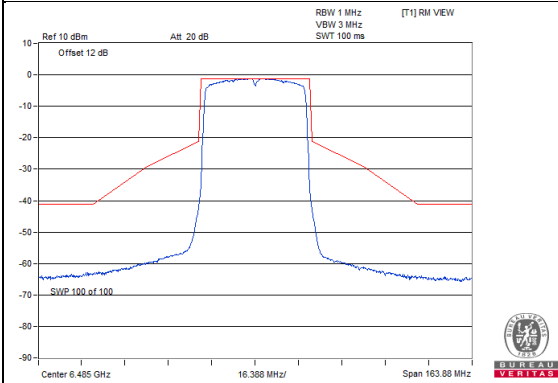
CH91



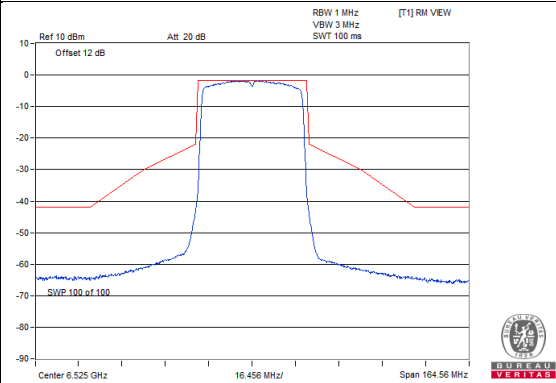
CH99



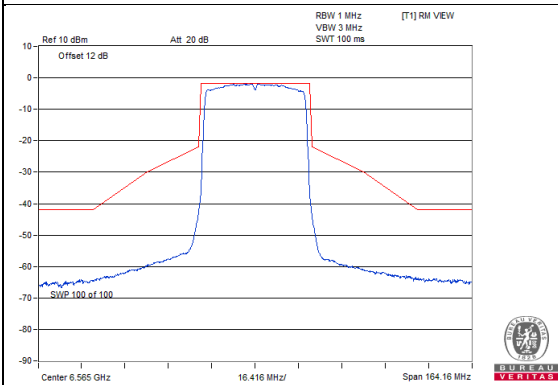
CH107



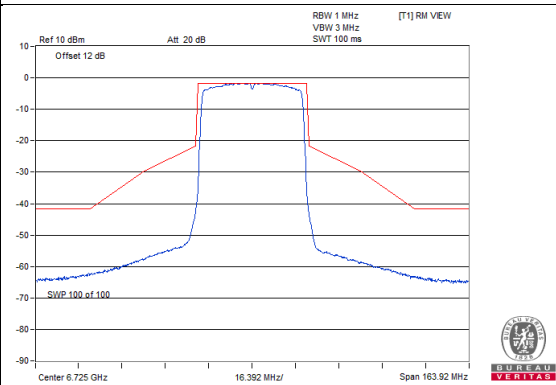
CH115



CH123



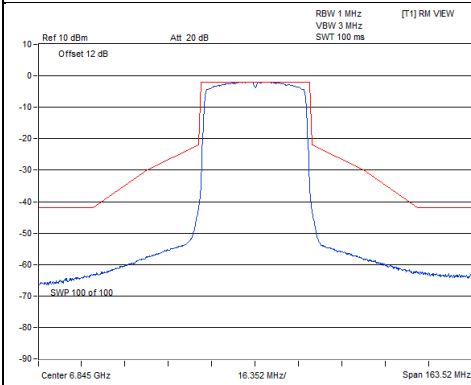
CH155



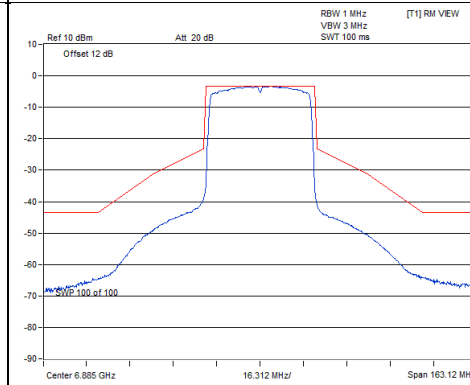
Spectrum Plot of Worst Value

Chain 3

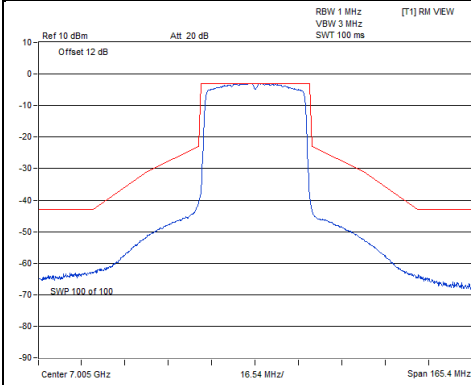
CH179



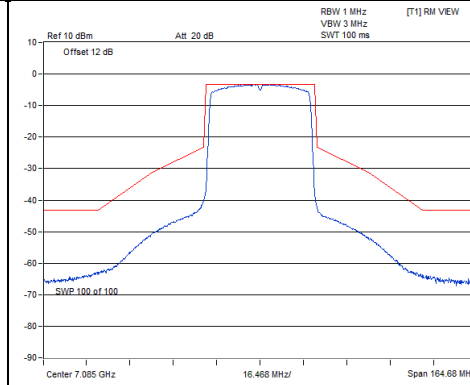
CH187



CH211



CH227

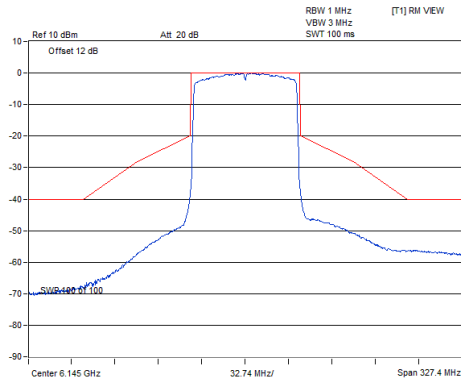


802.11ax (HE80)

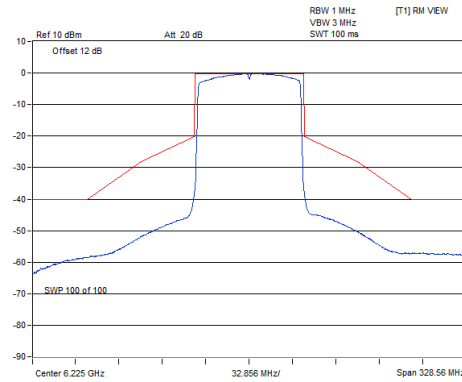
Spectrum Plot of Worst Value

Chain 0

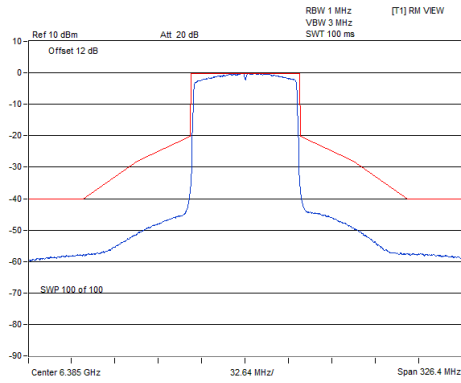
CH39



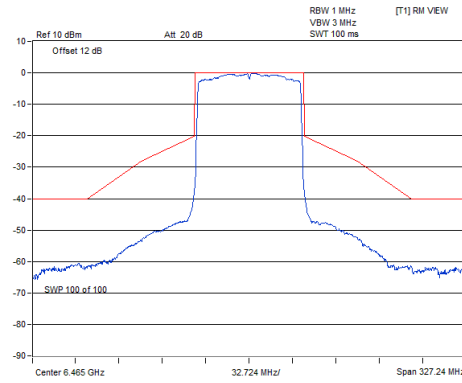
CH55



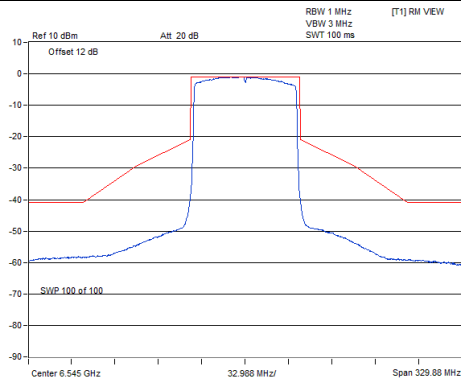
CH87



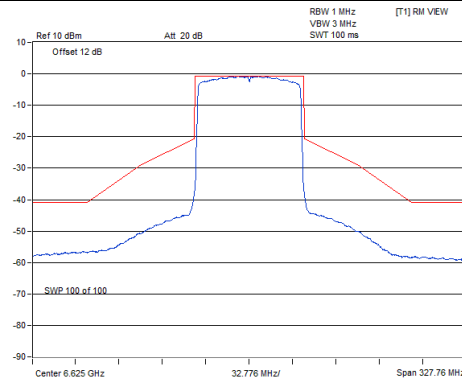
CH103



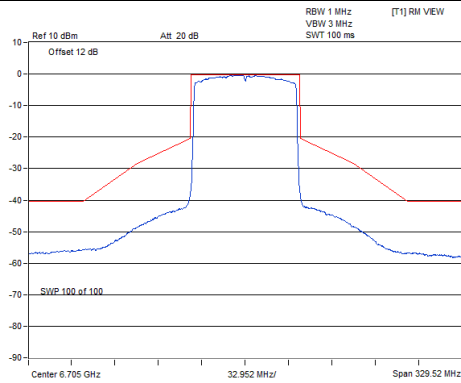
CH119



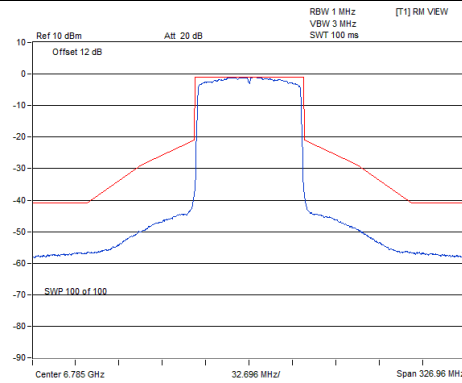
CH135



CH151



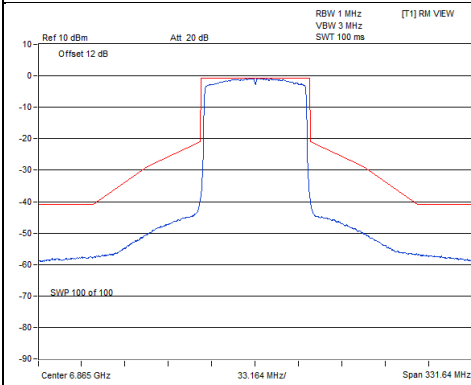
CH167



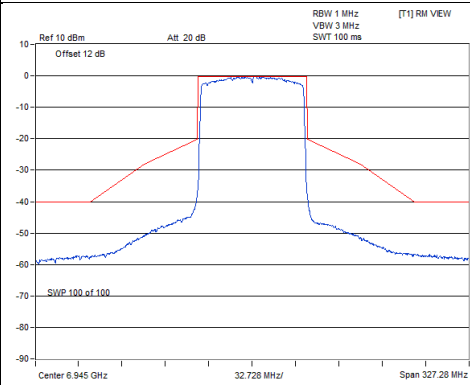
Spectrum Plot of Worst Value

Chain 0

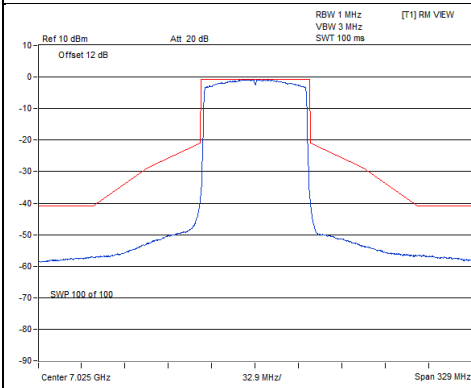
CH183



CH199

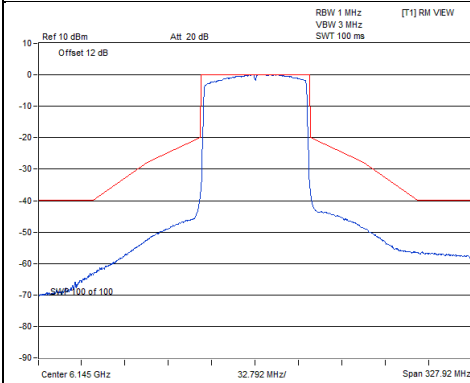


CH215

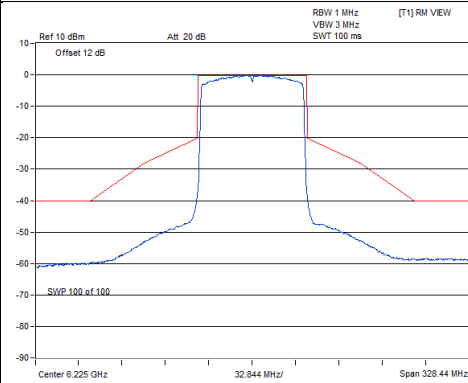


Spectrum Plot of Worst Value

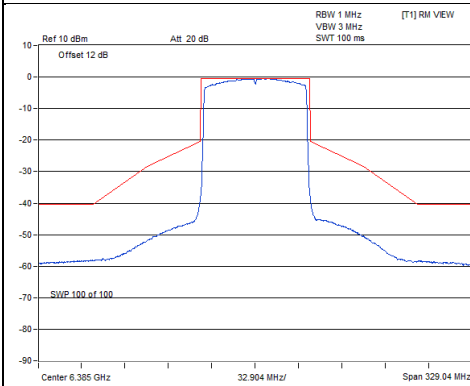
Chain 1 CH39



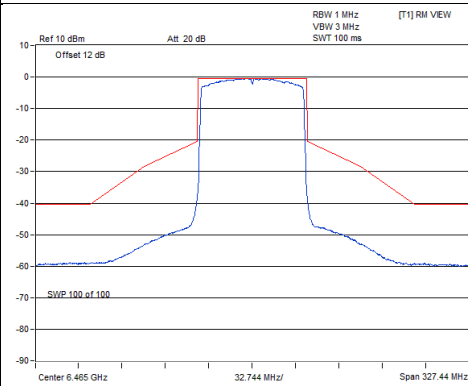
CH55



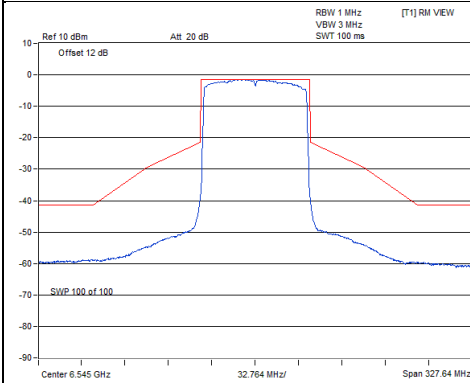
CH87



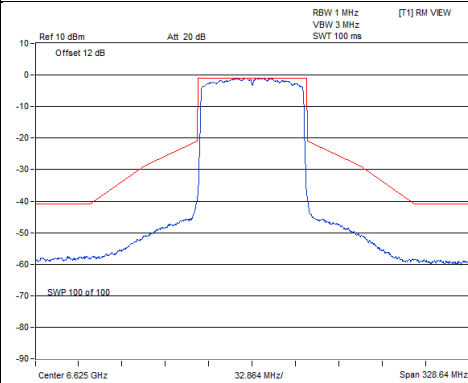
CH103



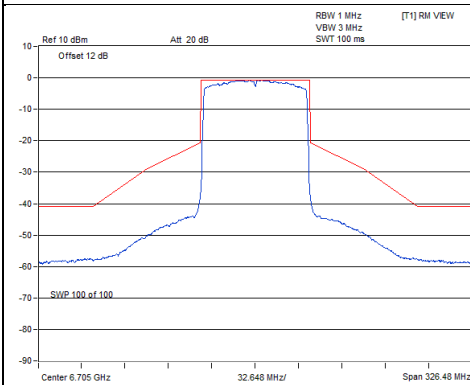
CH119



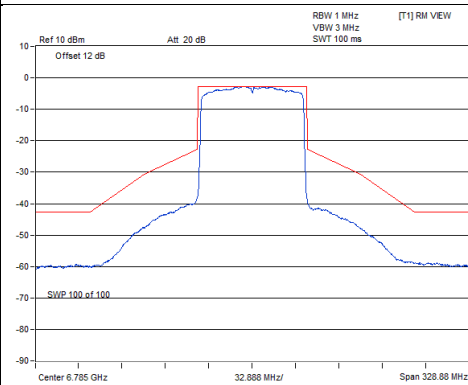
CH135



CH151



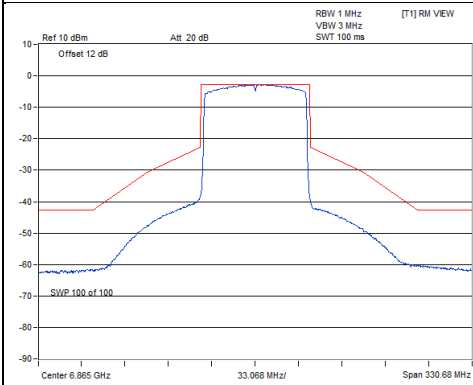
CH167



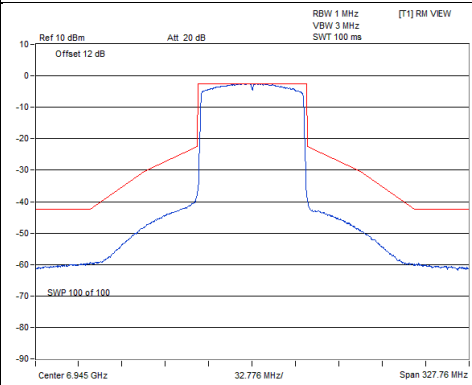
Spectrum Plot of Worst Value

Chain 1

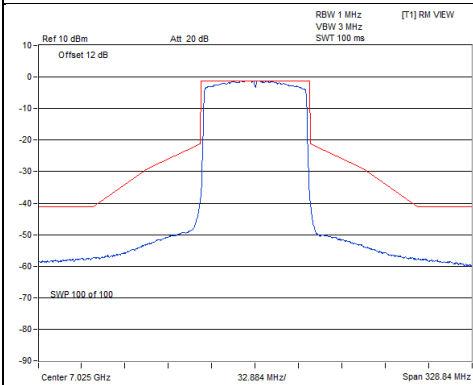
CH183



CH199



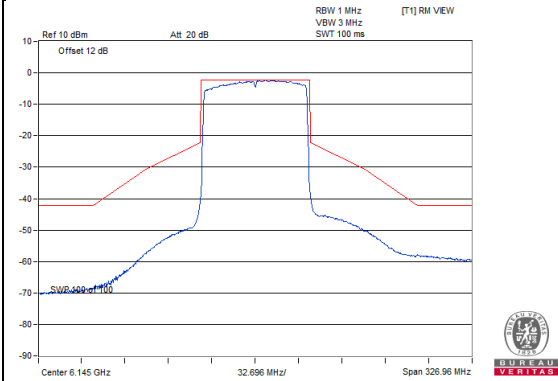
CH215



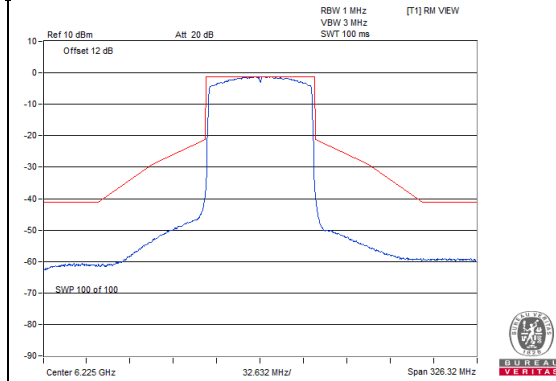
Spectrum Plot of Worst Value

Chain 2

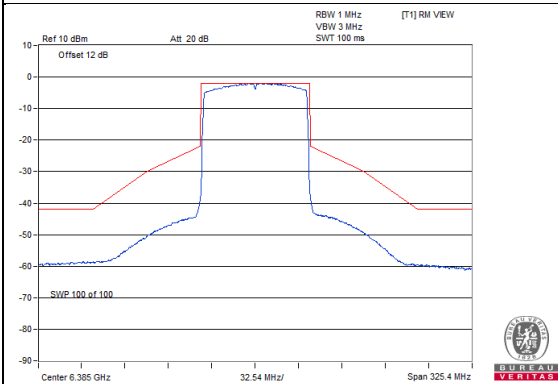
CH39



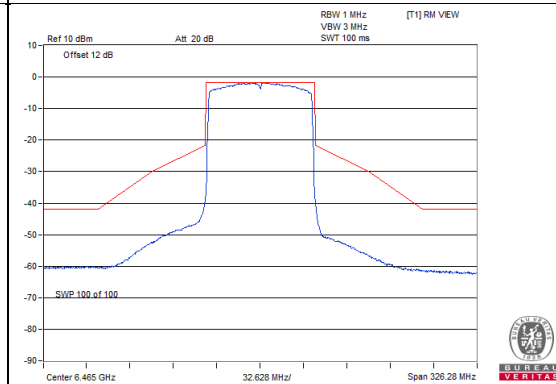
CH55



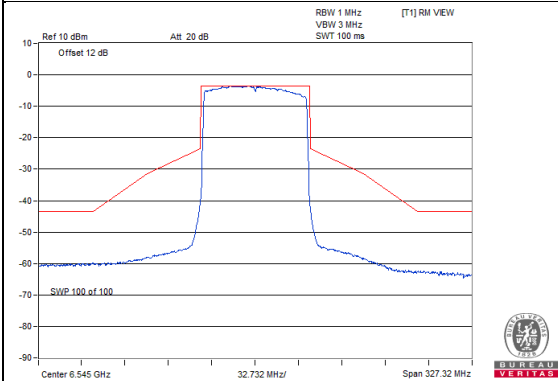
CH87



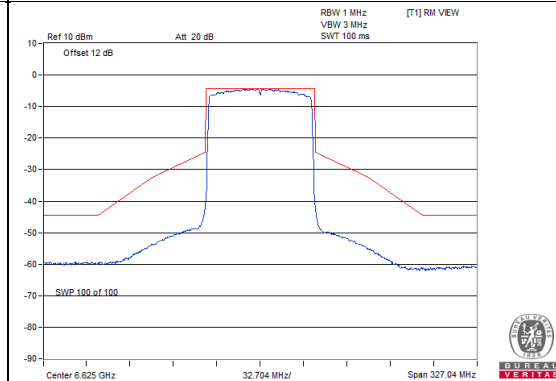
CH103



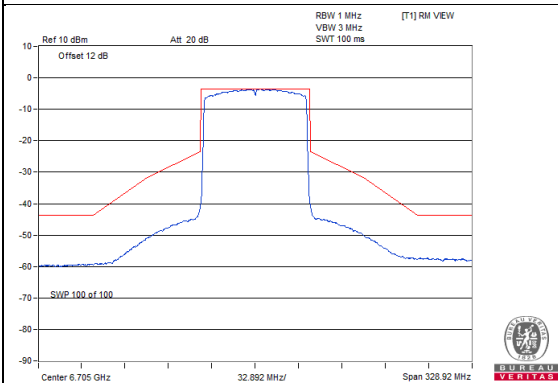
CH119



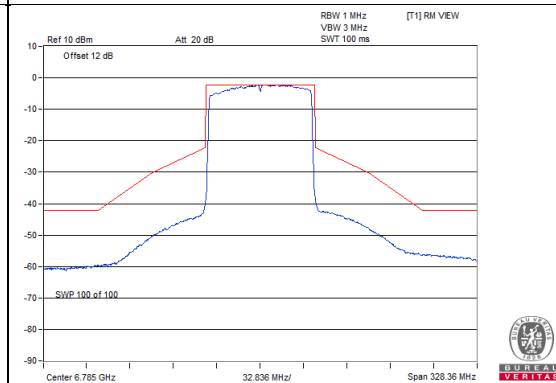
CH135



CH151



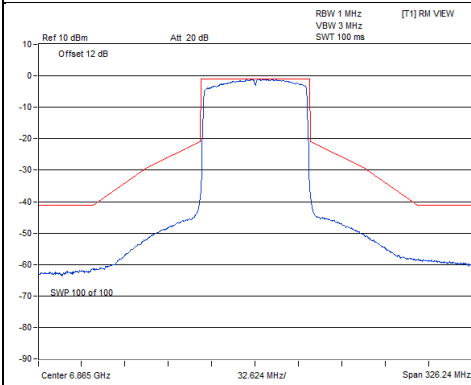
CH167



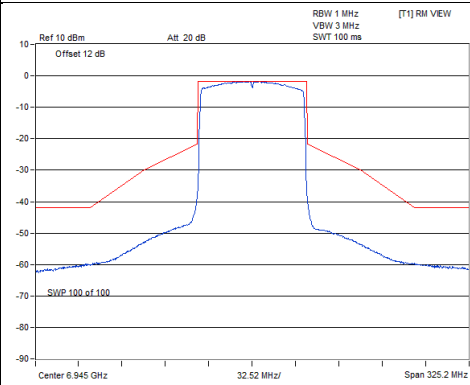
Spectrum Plot of Worst Value

Chain 2

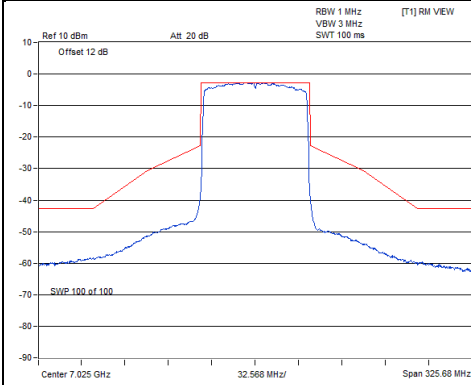
CH183



CH199

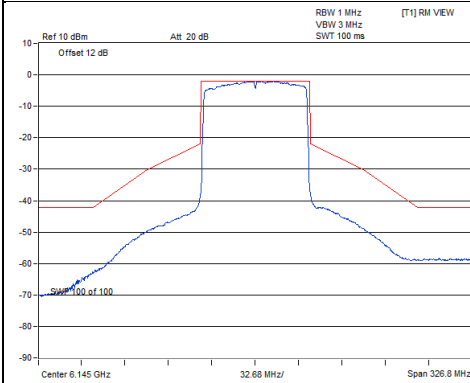


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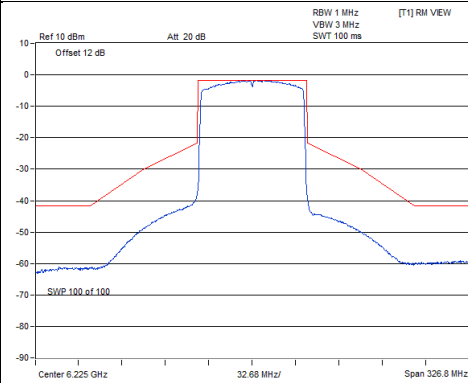


Spectrum Plot of Worst Value

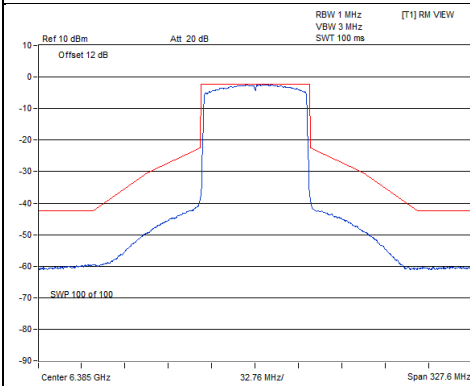
Chain 3 CH39



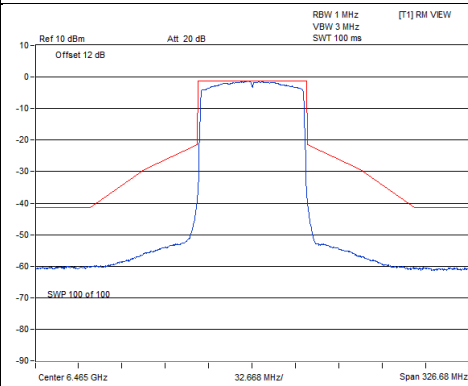
CH55



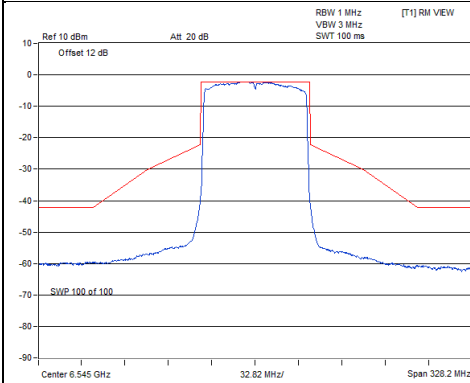
CH87



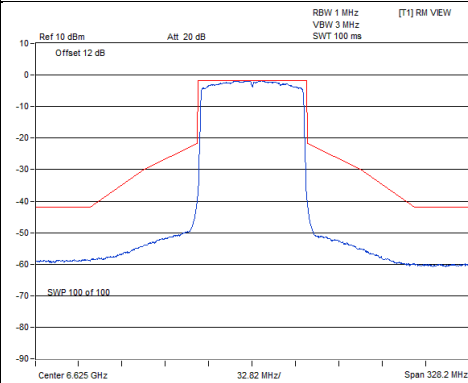
CH103



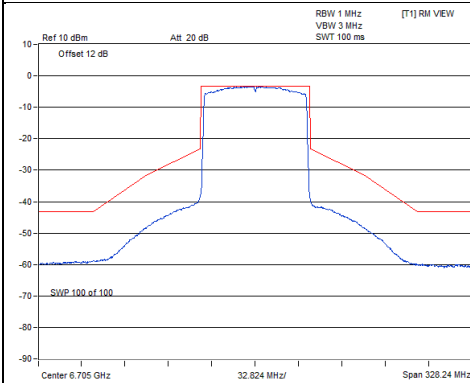
CH119



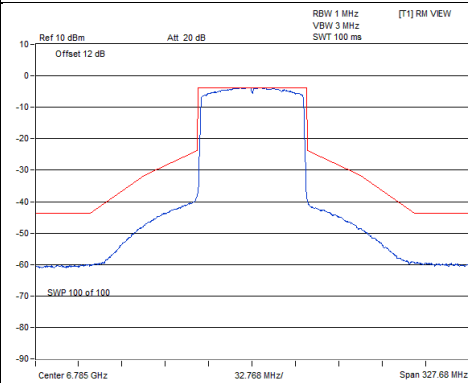
CH135



CH151



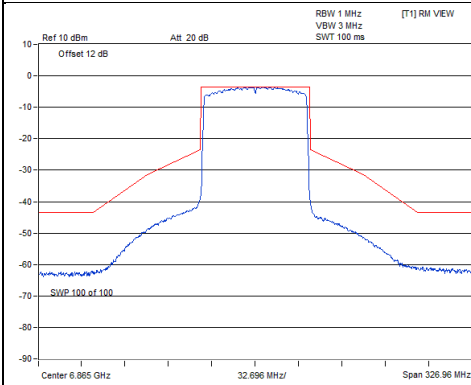
CH167



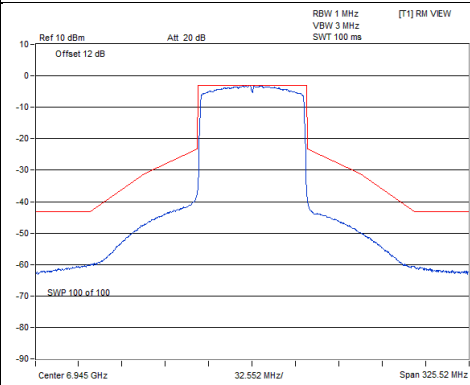
Spectrum Plot of Worst Value

Chain 3

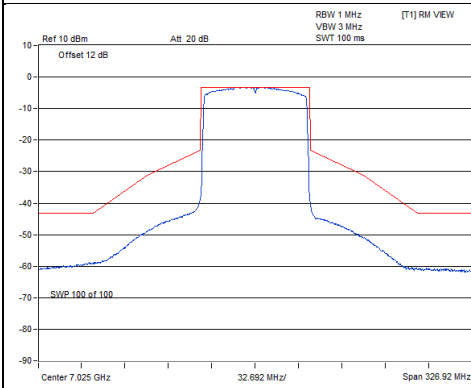
CH183



CH199



CH215

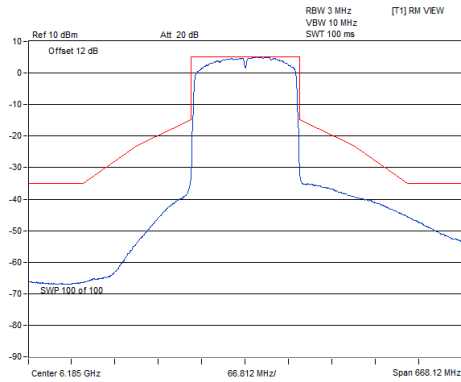


802.11ax (HE160)

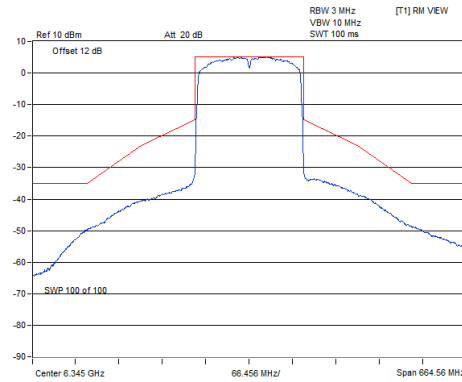
Spectrum Plot of Worst Value

Chain 0

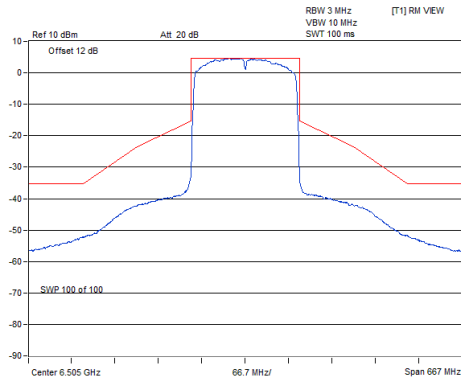
CH47



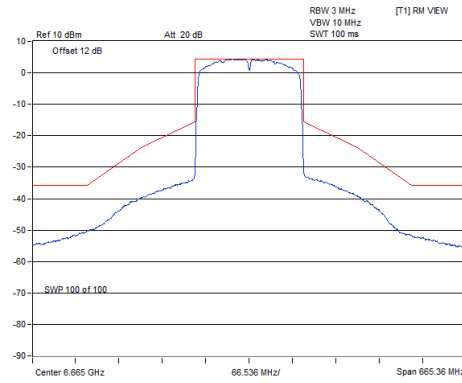
CH79



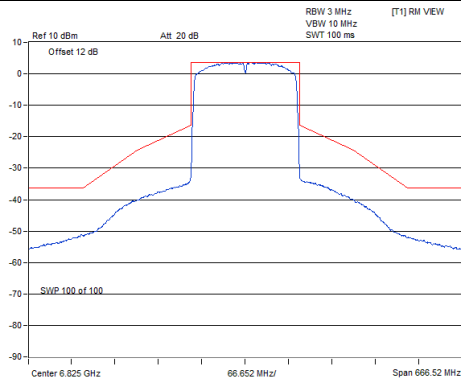
CH111



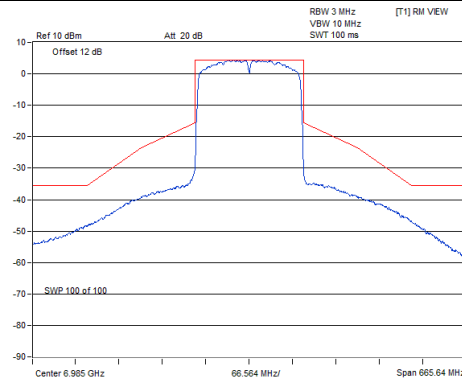
CH143



CH175

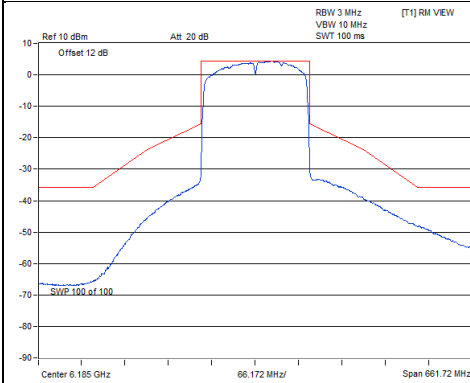


CH207

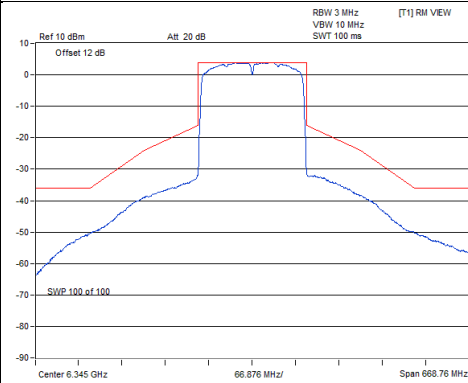


Spectrum Plot of Worst Value

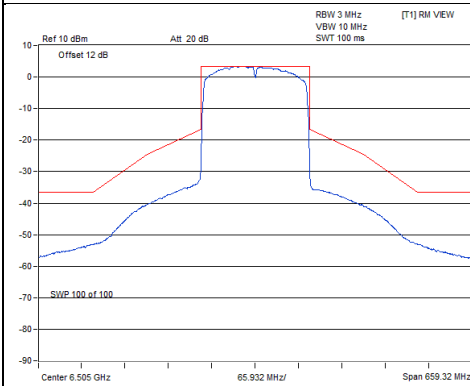
Chain 1 CH47



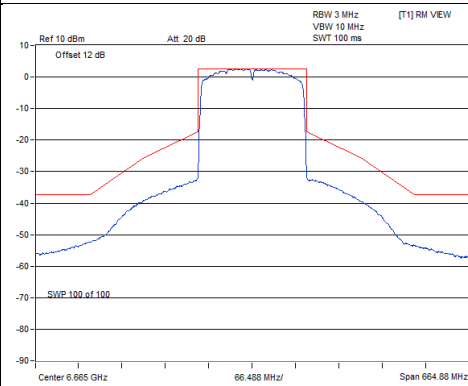
CH79



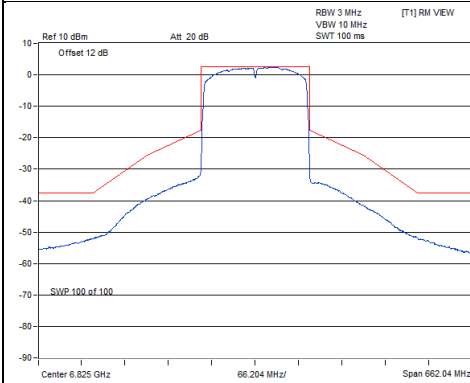
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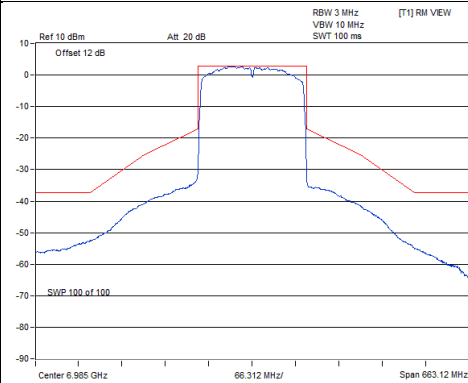
CH143



CH175

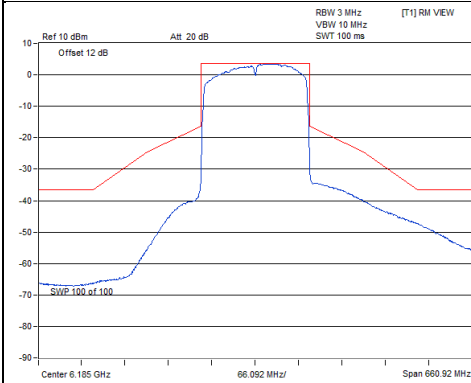


CH207

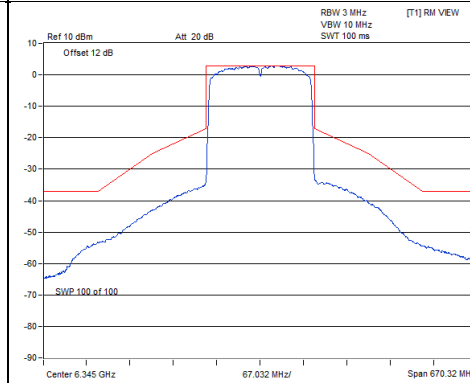


Spectrum Plot of Worst Value

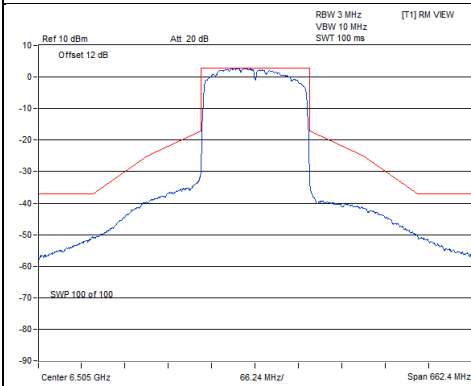
Chain 2 CH47



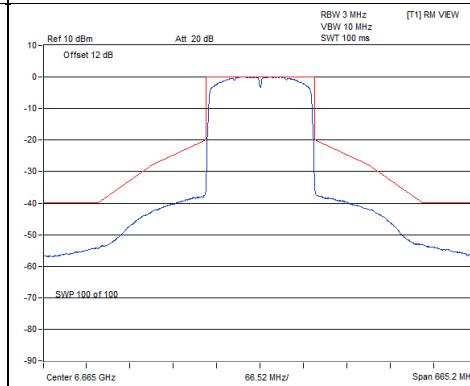
CH79



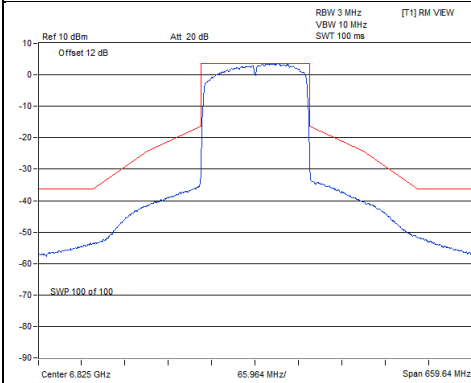
CH111



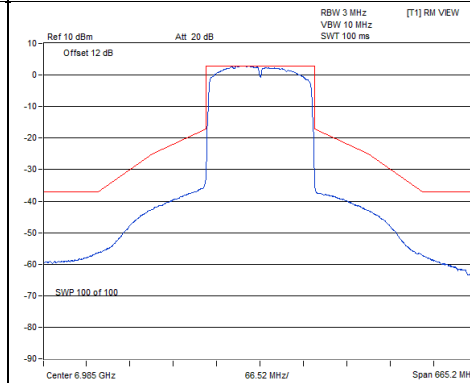
CH143



CH175

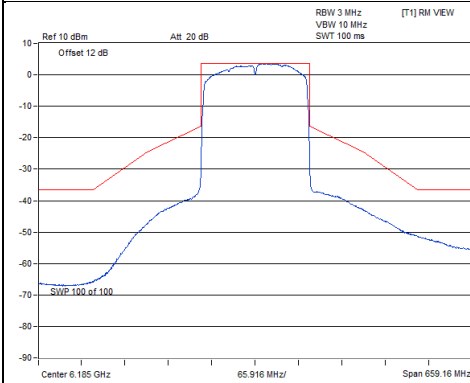


CH207

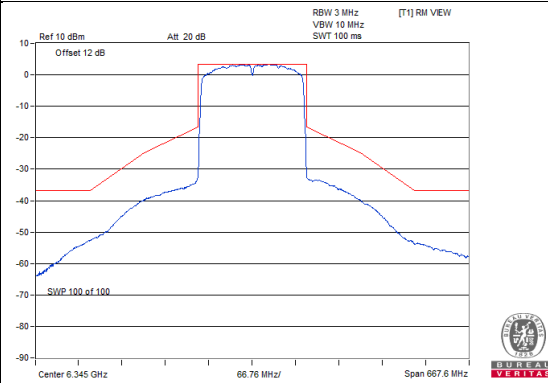


Spectrum Plot of Worst Value

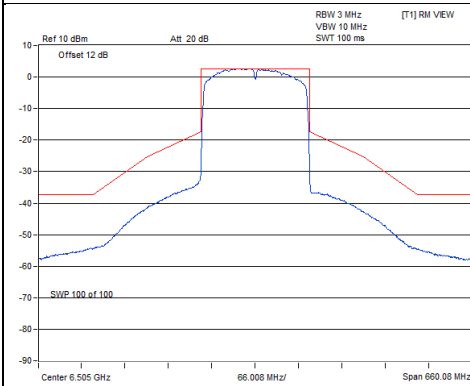
Chain 3 CH47



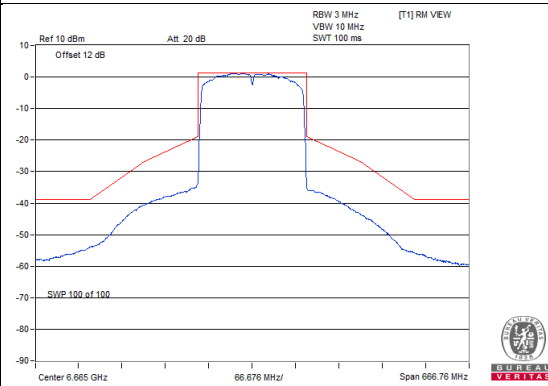
CH79



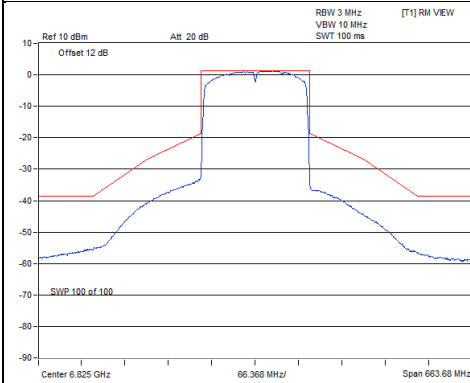
CH111



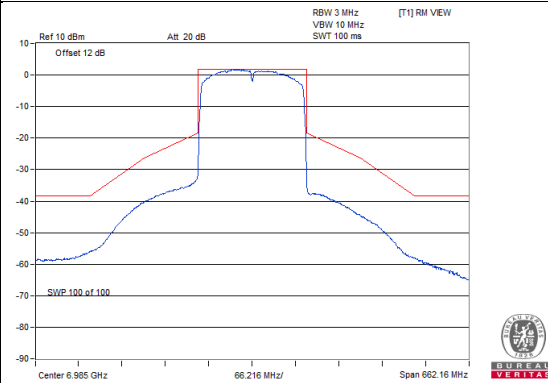
CH143



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:

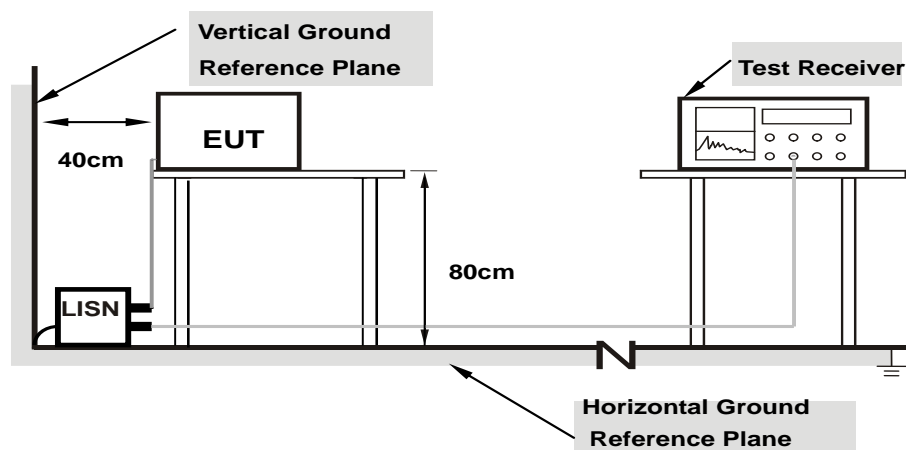
1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
3. Tested Date: Nov. 26, 2020

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.

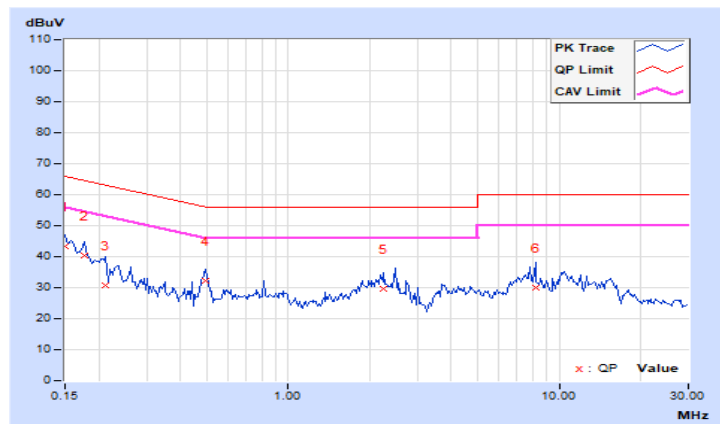
4.3.6 Test Results

RF Mode	TX 802.11ax (HE160)	Channel	CH 79 : 6345 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	0.15000	9.96	33.47	21.46	43.43	31.42	66.00	56.00	-22.57	-24.58
2	0.17734	9.98	30.50	20.00	40.48	29.98	64.61	54.61	-24.13	-24.63
3	0.21250	9.99	20.76	7.97	30.75	17.96	63.11	53.11	-32.36	-35.15
4	0.49766	10.03	22.23	18.53	32.26	28.56	56.04	46.04	-23.78	-17.48
5	2.25000	10.16	19.56	14.70	29.72	24.86	56.00	46.00	-26.28	-21.14
6	8.17188	10.59	19.29	13.80	29.88	24.39	60.00	50.00	-30.12	-25.61

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

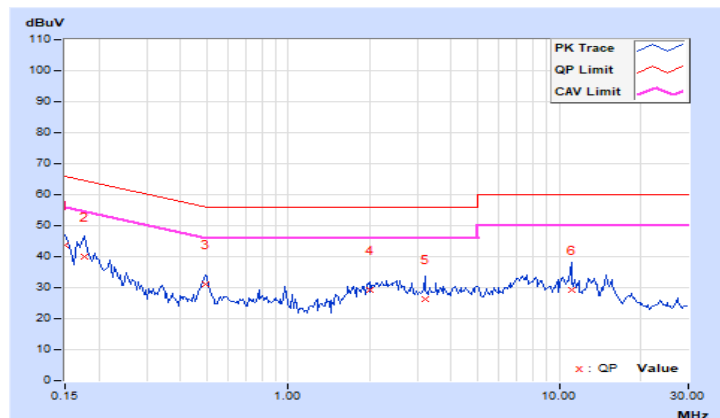


RF Mode	TX 802.11ax (HE160)	Channel	CH 79 : 6345 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

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	0.15000	9.94	33.68	21.44	43.62	31.38	66.00	56.00	-22.38	-24.62
2	0.17734	9.96	30.14	18.06	40.10	28.02	64.61	54.61	-24.51	-26.59
3	0.49375	10.02	20.96	17.15	30.98	27.17	56.10	46.10	-25.12	-18.93
4	2.01172	10.14	19.09	14.35	29.23	24.49	56.00	46.00	-26.77	-21.51
5	3.18750	10.21	16.08	10.64	26.29	20.85	56.00	46.00	-29.71	-25.15
6	11.06641	10.68	18.73	13.55	29.41	24.23	60.00	50.00	-30.59	-25.77

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 / Subordinate Device	EIRP 30 dBm

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

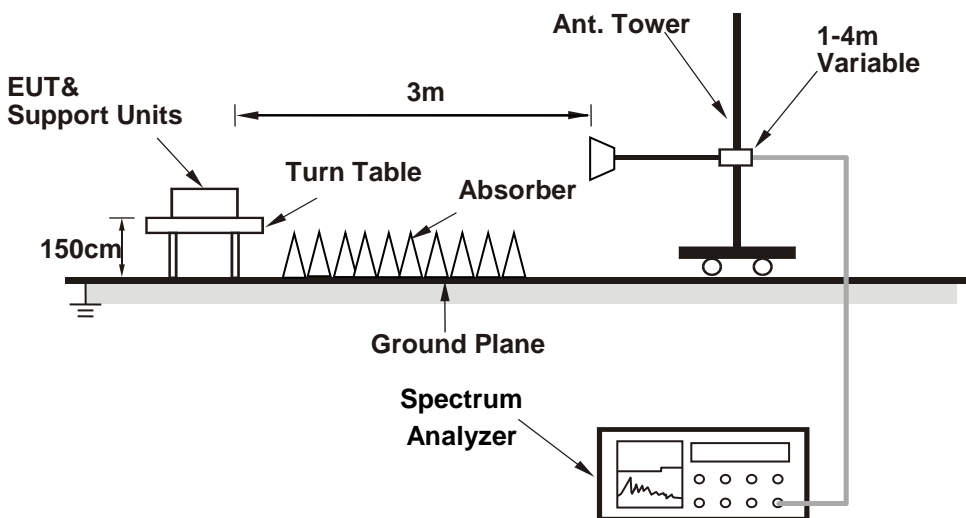
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

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



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

- 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 and KDB 412172 D01 v01r01, $EIRP \text{ Value (dBm)} = \text{Field Strength Value (dB}\mu\text{V/m)} + \text{Correction Factor @ 3m}$.
- f. $\text{Correction Factor (dB) @ 3m} = 20\log(D) - 104.7$; where D is the measurement distance @3m=-95.15dB

Note: Spectrum analyzer setting as below:

Method SA-1

1. Set span to encompass the entire 99% occupied bandwidth of the signal.
2. Set RBW =1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent) ; Set video trigger (duty cycle < 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode
9. Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal.

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 Result (Mode 1)

CDD Mode
802.11a

Chan.	Chan. Freq. (MHz)	Field Strength (dBuV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
33	6115	109.00	-95.15	24.266	13.85	30	Pass
61	6255	108.80	-95.15	23.174	13.65	30	Pass
93	6415	108.90	-95.15	23.714	13.75	30	Pass
97	6435	108.70	-95.15	22.646	13.55	30	Pass
105	6475	108.80	-95.15	23.174	13.65	30	Pass
113	6515	108.90	-95.15	23.714	13.75	30	Pass
117	6535	108.40	-95.15	21.135	13.25	30	Pass
153	6715	108.50	-95.15	21.627	13.35	30	Pass
181	6855	108.60	-95.15	22.131	13.45	30	Pass
185	6875	108.50	-95.15	21.627	13.35	30	Pass
213	7015	108.10	-95.15	19.724	12.95	30	Pass
233	7115	108.20	-95.15	20.184	13.05	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	109.30	-95.15	26.002	14.15	30	Pass
61	6255	109.20	-95.15	25.41	14.05	30	Pass
93	6415	108.80	-95.15	23.174	13.65	30	Pass
97	6435	108.50	-95.15	21.627	13.35	30	Pass
105	6475	108.40	-95.15	21.135	13.25	30	Pass
113	6515	108.40	-95.15	21.135	13.25	30	Pass
117	6535	108.00	-95.15	19.275	12.85	30	Pass
153	6715	108.40	-95.15	21.135	13.25	30	Pass
181	6855	108.30	-95.15	20.654	13.15	30	Pass
185	6875	108.10	-95.15	19.724	12.95	30	Pass
213	7015	108.60	-95.15	22.131	13.45	30	Pass
229	7095	108.50	-95.15	21.627	13.35	30	Pass
233	7115	98.10	-95.15	1.972	2.95	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	112.50	-95.15	54.325	17.35	30	Pass
59	6245	112.20	-95.15	50.699	17.05	30	Pass
91	6405	112.40	-95.15	53.088	17.25	30	Pass
99	6445	111.90	-95.15	47.315	16.75	30	Pass
107	6485	112.10	-95.15	49.545	16.95	30	Pass
115	6525	111.50	-95.15	43.152	16.35	30	Pass
123	6565	112.00	-95.15	48.417	16.85	30	Pass
155	6725	111.50	-95.15	43.152	16.35	30	Pass
179	6845	112.00	-95.15	48.417	16.85	30	Pass
187	6885	111.90	-95.15	47.315	16.75	30	Pass
211	7005	111.90	-95.15	47.315	16.75	30	Pass
227	7085	111.90	-95.15	47.315	16.75	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	115.30	-95.15	103.514	20.15	30	Pass
55	6225	115.10	-95.15	98.855	19.95	30	Pass
87	6385	115.40	-95.15	105.925	20.25	30	Pass
103	6465	115.20	-95.15	101.158	20.05	30	Pass
119	6545	115.30	-95.15	103.514	20.15	30	Pass
135	6625	114.70	-95.15	90.157	19.55	30	Pass
151	6705	114.80	-95.15	92.257	19.65	30	Pass
167	6785	114.80	-95.15	92.257	19.65	30	Pass
183	6865	114.70	-95.15	90.157	19.55	30	Pass
199	6945	114.90	-95.15	94.406	19.75	30	Pass
215	7025	115.10	-95.15	98.855	19.95	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	117.50	-95.15	171.791	22.35	30	Pass
79	6345	117.80	-95.15	184.077	22.65	30	Pass
111	6505	117.50	-95.15	171.791	22.35	30	Pass
143	6665	117.90	-95.15	188.365	22.75	30	Pass
175	6825	117.30	-95.15	164.059	22.15	30	Pass
207	6985	117.70	-95.15	179.887	22.55	30	Pass

Beamforming Mode

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	113.10	-95.15	62.373	17.95	30	Pass
61	6255	112.90	-95.15	59.566	17.75	30	Pass
93	6415	112.50	-95.15	54.325	17.35	30	Pass
97	6435	112.30	-95.15	51.88	17.15	30	Pass
105	6475	112.20	-95.15	50.699	17.05	30	Pass
113	6515	112.30	-95.15	51.88	17.15	30	Pass
117	6535	111.80	-95.15	46.238	16.65	30	Pass
153	6715	112.10	-95.15	49.545	16.95	30	Pass
181	6855	112.00	-95.15	48.417	16.85	30	Pass
185	6875	111.90	-95.15	47.315	16.75	30	Pass
213	7015	112.30	-95.15	51.88	17.15	30	Pass
229	7095	112.10	-95.15	49.545	16.95	30	Pass
233	7115	101.80	-95.15	4.624	6.65	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	116.10	-95.15	124.451	20.95	30	Pass
59	6245	115.90	-95.15	118.85	20.75	30	Pass
91	6405	116.10	-95.15	124.451	20.95	30	Pass
99	6445	115.80	-95.15	116.145	20.65	30	Pass
107	6485	115.90	-95.15	118.85	20.75	30	Pass
115	6525	115.30	-95.15	103.514	20.15	30	Pass
123	6565	115.70	-95.15	113.501	20.55	30	Pass
155	6725	115.20	-95.15	101.158	20.05	30	Pass
179	6845	115.70	-95.15	113.501	20.55	30	Pass
187	6885	115.50	-95.15	108.393	20.35	30	Pass
211	7005	115.50	-95.15	108.393	20.35	30	Pass
227	7085	115.50	-95.15	108.393	20.35	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	119.10	-95.15	248.313	23.95	30	Pass
55	6225	119.00	-95.15	242.661	23.85	30	Pass
87	6385	119.30	-95.15	260.016	24.15	30	Pass
103	6465	119.00	-95.15	242.661	23.85	30	Pass
119	6545	119.20	-95.15	254.097	24.05	30	Pass
135	6625	118.40	-95.15	211.349	23.25	30	Pass
151	6705	118.50	-95.15	216.272	23.35	30	Pass
167	6785	118.50	-95.15	216.272	23.35	30	Pass
183	6865	118.50	-95.15	216.272	23.35	30	Pass
199	6945	118.50	-95.15	216.272	23.35	30	Pass
215	7025	118.80	-95.15	231.739	23.65	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	121.30	-95.15	412.098	26.15	30	Pass
79	6345	121.60	-95.15	441.57	26.45	30	Pass
111	6505	121.30	-95.15	412.098	26.15	30	Pass
143	6665	121.70	-95.15	451.856	26.55	30	Pass
175	6825	120.90	-95.15	375.837	25.75	30	Pass
207	6985	121.40	-95.15	421.697	26.25	30	Pass

4.4.7 Test Result (Mode 2)

SDM Mode
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	113.70	-95.15	71.614	18.55	30	Pass
61	6255	113.00	-95.15	60.954	17.85	30	Pass
93	6415	113.40	-95.15	66.834	18.25	30	Pass
97	6435	113.20	-95.15	63.826	18.05	30	Pass
105	6475	113.60	-95.15	69.984	18.45	30	Pass
113	6515	113.40	-95.15	66.834	18.25	30	Pass
117	6535	112.40	-95.15	53.088	17.25	30	Pass
153	6715	113.30	-95.15	65.313	18.15	30	Pass
181	6855	113.40	-95.15	66.834	18.25	30	Pass
185	6875	113.10	-95.15	62.373	17.95	30	Pass
213	7015	113.00	-95.15	60.954	17.85	30	Pass
229	7095	112.90	-95.15	59.566	17.75	30	Pass
233	7115	97.40	-95.15	1.679	2.25	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	116.20	-95.15	127.35	21.05	30	Pass
59	6245	116.40	-95.15	133.352	21.25	30	Pass
91	6405	115.80	-95.15	116.145	20.65	30	Pass
99	6445	116.20	-95.15	127.35	21.05	30	Pass
107	6485	116.10	-95.15	124.451	20.95	30	Pass
115	6525	116.20	-95.15	127.35	21.05	30	Pass
123	6565	115.60	-95.15	110.917	20.45	30	Pass
155	6725	115.80	-95.15	116.145	20.65	30	Pass
179	6845	116.00	-95.15	121.619	20.85	30	Pass
187	6885	116.10	-95.15	124.451	20.95	30	Pass
211	7005	115.90	-95.15	118.85	20.75	30	Pass
227	7085	116.20	-95.15	127.35	21.05	30	Pass