RF Mode	TX 802.11ax (HE80)	Channel	CH 87：6385 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6385.00	111.3 PK			2.39 H	307	105.0	6.3
2	*6385.00	99.8 AV			2.39 H	307	93.5	6.3
3	#12770.00	44.9 PK	88.2	-43.3	1.65 H	111	30.7	14.2
4	#12770.00	33.6 AV	68.2	-34.6	1.65 H	111	19.4	14.2
5	19155.00	50.2 PK	74.0	-23.8	1.85 H	60	56.9	-6.7
6	19155.00	38.2 AV	54.0	-15.8	1.85 H	60	44.9	-6.7
7	#25540.00	41.1 PK	88.2	-47.1	1.92 H	110	42.8	-1.7
8	#25540.00	31.9 AV	68.2	-36.3	1.92 H	110	33.6	-1.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6385.00	110.9 PK			1.52 V	230	104.6	6.3
2	*6385.00	99.2 AV			1.52 V	230	92.9	6.3
3	#12770.00	46.0 PK	88.2	-42.2	1.21 V	144	31.8	14.2
4	#12770.00	34.0 AV	68.2	-34.2	1.21 V	144	19.8	14.2
5	19155.00	50.0 PK	74.0	-24.0	1.77 V	226	56.7	-6.7
6	19155.00	37.5 AV	54.0	-16.5	1.77 V	226	44.2	-6.7
7	#25540.00	42.0 PK	88.2	-46.2	2.21 V	172	43.7	-1.7
8	#25540.00	32.4 AV	68.2	-35.8	2.21 V	172	34.1	-1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 103：6465 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6465.00	111.5 PK			2.38 H	326	104.6	6.9
2	*6465.00	100.0 AV			2.38 H	326	93.1	6.9
3	#12930.00	45.0 PK	88.2	-43.2	1.64 H	108	31.0	14.0
4	#12930.00	33.3 AV	68.2	-34.9	1.64 H	108	19.3	14.0
5	19395.00	50.5 PK	74.0	-23.5	1.94 H	48	57.3	-6.8
6	19395.00	38.7 AV	54.0	-15.3	1.94 H	48	45.5	-6.8
7	#25860.00	41.4 PK	88.2	-46.8	1.91 H	98	43.1	-1.7
8	#25860.00	32.4 AV	68.2	-35.8	1.91 H	98	34.1	-1.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6465.00	111.4 PK			1.50 V	228	104.5	6.9
2	*6465.00	99.6 AV			1.50 V	228	92.7	6.9
3	#12930.00	46.1 PK	88.2	-42.1	1.24 V	146	32.1	14.0
4	#12930.00	34.3 AV	68.2	-33.9	1.24 V	146	20.3	14.0
5	19395.00	50.1 PK	74.0	-23.9	1.76 V	238	56.9	-6.8
6	19395.00	38.1 AV	54.0	-15.9	1.76 V	238	44.9	-6.8
7	#25860.00	42.0 PK	88.2	-46.2	2.21 V	170	43.7	-1.7
8	#25860.00	32.4 AV	68.2	-35.8	2.21 V	170	34.1	-1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 119：6545 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6545.00	112.4 PK			2.28 H	317	105.1	7.3
2	*6545.00	100.3 AV			2.28 H	317	93.0	7.3
3	#13090.00	44.6 PK	88.2	-43.6	1.70 H	109	30.2	14.4
4	#13090.00	33.3 AV	68.2	-34.9	1.70 H	109	18.9	14.4
5	19635.00	50.4 PK	74.0	-23.6	1.90 H	37	56.5	-6.1
6	19635.00	38.6 AV	54.0	-15.4	1.90 H	37	44.7	-6.1
7	#26180.00	41.5 PK	88.2	-46.7	1.93 H	94	42.7	-1.2
8	#26180.00	32.6 AV	68.2	-35.6	1.93 H	94	33.8	-1.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6545.00	110.9 PK			1.47 V	245	103.6	7.3
2	*6545.00	99.4 AV			1.47 V	245	92.1	7.3
3	#13090.00	45.8 PK	88.2	-42.4	1.27 V	150	31.4	14.4
4	#13090.00	34.3 AV	68.2	-33.9	1.27 V	150	19.9	14.4
5	19635.00	50.0 PK	74.0	-24.0	1.83 V	240	56.1	-6.1
6	19635.00	37.6 AV	54.0	-16.4	1.83 V	240	43.7	-6.1
7	#26180.00	42.6 PK	88.2	-45.6	2.14 V	158	43.8	-1.2
8	#26180.00	32.9 AV	68.2	-35.3	2.14 V	158	34.1	-1.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 135：6625 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6625.00	111.4 PK			2.39 H	311	103.8	7.6
2	*6625.00	99.6 AV			2.39 H	311	92.0	7.6
3	13250.00	45.5 PK	74.0	-28.5	1.70 H	101	30.0	15.5
4	13250.00	33.8 AV	54.0	-20.2	1.70 H	101	18.3	15.5
5	19875.00	50.0 PK	74.0	-24.0	1.94 H	42	56.1	-6.1
6	19875.00	37.9 AV	54.0	-16.1	1.94 H	42	44.0	-6.1
7	#26500.00	41.4 PK	88.2	-46.8	1.88 H	92	42.2	-0.8
8	#26500.00	32.7 AV	68.2	-35.5	1.88 H	92	33.5	-0.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6625.00	111.3 PK			1.44 V	242	103.7	7.6
2	*6625.00	99.5 AV			1.44 V	242	91.9	7.6
3	13250.00	46.7 PK	74.0	-27.3	1.20 V	147	31.2	15.5
4	13250.00	34.8 AV	54.0	-19.2	1.20 V	147	19.3	15.5
5	19875.00	49.3 PK	74.0	-24.7	1.77 V	219	55.4	-6.1
6	19875.00	37.2 AV	54.0	-16.8	1.77 V	219	43.3	-6.1
7	#26500.00	42.9 PK	88.2	-45.3	2.19 V	172	43.7	-0.8
8	#26500.00	33.1 AV	68.2	-35.1	2.19 V	172	33.9	-0.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 151：6705 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6705.00	112.3 PK			2.38 H	304	104.9	7.4
2	*6705.00	100.3 AV			2.38 H	304	92.9	7.4
3	#13410.00	44.4 PK	88.2	-43.8	1.69 H	90	29.4	15.0
4	#13410.00	33.1 AV	68.2	-35.1	1.69 H	90	18.1	15.0
5	20115.00	50.1 PK	74.0	-23.9	1.95 H	52	55.6	-5.5
6	20115.00	38.3 AV	54.0	-15.7	1.95 H	52	43.8	-5.5
7	#26820.00	41.1 PK	88.2	-47.1	1.86 H	101	42.1	-1.0
8	#26820.00	32.3 AV	68.2	-35.9	1.86 H	101	33.3	-1.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6705.00	110.3 PK			1.53 V	242	102.9	7.4
2	*6705.00	99.0 AV			1.53 V	242	91.6	7.4
3	#13410.00	46.0 PK	88.2	-42.2	1.23 V	138	31.0	15.0
4	#13410.00	34.2 AV	68.2	-34.0	1.23 V	138	19.2	15.0
5	20115.00	49.8 PK	74.0	-24.2	1.78 V	229	55.3	-5.5
6	20115.00	37.6 AV	54.0	-16.4	1.78 V	229	43.1	-5.5
7	#26820.00	42.6 PK	88.2	-45.6	2.17 V	164	43.6	-1.0
8	#26820.00	32.7 AV	68.2	-35.5	2.17 V	164	33.7	-1.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 167：6785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6785.00	111.7 PK			2.38 H	316	104.2	7.5
2	*6785.00	99.8 AV			2.38 H	316	92.3	7.5
3	#13570.00	45.5 PK	88.2	-42.7	1.64 H	93	29.8	15.7
4	#13570.00	33.7 AV	68.2	-34.5	1.64 H	93	18.0	15.7
5	20355.00	49.9 PK	74.0	-24.1	1.90 H	62	55.5	-5.6
6	20355.00	38.1 AV	54.0	-15.9	1.90 H	62	43.7	-5.6
7	#27140.00	42.0 PK	88.2	-46.2	1.93 H	85	43.3	-1.3
8	#27140.00	32.9 AV	68.2	-35.3	1.93 H	85	34.2	-1.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6785.00	111.3 PK			1.50 V	254	103.8	7.5
2	*6785.00	99.7 AV			1.50 V	254	92.2	7.5
3	#13570.00	46.1 PK	88.2	-42.1	1.20 V	163	30.4	15.7
4	#13570.00	34.4 AV	68.2	-33.8	1.20 V	163	18.7	15.7
5	20355.00	50.2 PK	74.0	-23.8	1.80 V	224	55.8	-5.6
6	20355.00	38.0 AV	54.0	-16.0	1.80 V	224	43.6	-5.6
7	#27140.00	42.5 PK	88.2	-45.7	2.21 V	176	43.8	-1.3
8	#27140.00	32.8 AV	68.2	-35.4	2.21 V	176	34.1	-1.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 183：6865 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6865.00	112.1 PK			2.30 H	308	104.5	7.6
2	*6865.00	100.2 AV			2.30 H	308	92.6	7.6
3	#13730.00	45.0 PK	88.2	-43.2	1.60 H	100	28.9	16.1
4	#13730.00	33.2 AV	68.2	-35.0	1.60 H	100	17.1	16.1
5	20595.00	50.4 PK	74.0	-23.6	1.85 H	51	55.1	-4.7
6	20595.00	38.2 AV	54.0	-15.8	1.85 H	51	42.9	-4.7
7	#27460.00	41.2 PK	88.2	-47.0	1.95 H	81	42.6	-1.4
8	#27460.00	32.3 AV	68.2	-35.9	1.95 H	81	33.7	-1.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6865.00	110.5 PK			1.54 V	248	102.9	7.6
2	*6865.00	98.9 AV			1.54 V	248	91.3	7.6
3	#13730.00	45.9 PK	88.2	-42.3	1.24 V	165	29.8	16.1
4	#13730.00	34.2 AV	68.2	-34.0	1.24 V	165	18.1	16.1
5	20595.00	49.8 PK	74.0	-24.2	1.83 V	217	54.5	-4.7
6	20595.00	37.7 AV	54.0	-16.3	1.83 V	217	42.4	-4.7
7	#27460.00	42.8 PK	88.2	-45.4	2.17 V	160	44.2	-1.4
8	#27460.00	32.7 AV	68.2	-35.5	2.17 V	160	34.1	-1.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 199：6945 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6945.00	111.2 PK			2.34 H	311	103.2	8.0
2	*6945.00	99.4 AV			2.34 H	311	91.4	8.0
3	#13890.00	45.0 PK	88.2	-43.2	1.66 H	96	28.9	16.1
4	#13890.00	33.4 AV	68.2	-34.8	1.66 H	96	17.3	16.1
5	20835.00	50.3 PK	74.0	-23.7	1.91 H	48	55.1	-4.8
6	20835.00	38.3 AV	54.0	-15.7	1.91 H	48	43.1	-4.8
7	#27780.00	41.3 PK	88.2	-46.9	1.91 H	96	43.2	-1.9
8	#27780.00	32.4 AV	68.2	-35.8	1.91 H	96	34.3	-1.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6945.00	110.2 PK			1.51 V	238	102.2	8.0
2	*6945.00	98.8 AV			1.51 V	238	90.8	8.0
3	#13890.00	46.5 PK	88.2	-41.7	1.22 V	165	30.4	16.1
4	#13890.00	34.7 AV	68.2	-33.5	1.22 V	165	18.6	16.1
5	20835.00	49.6 PK	74.0	-24.4	1.82 V	216	54.4	-4.8
6	20835.00	37.3 AV	54.0	-16.7	1.82 V	216	42.1	-4.8
7	#27780.00	42.0 PK	88.2	-46.2	2.16 V	178	43.9	-1.9
8	#27780.00	32.3 AV	68.2	-35.9	2.16 V	178	34.2	-1.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 215：7025 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7025.00	110.2 PK			1.71 H	323	101.2	9.0
2	*7025.00	99.6 AV			1.71 H	323	90.6	9.0
3	#7134.00	56.7 PK	88.2	-31.5	1.71 H	323	46.9	9.8
4	#7134.00	45.6 AV	68.2	-22.6	1.71 H	323	35.8	9.8
5	#14050.00	45.1 PK	88.2	-43.1	1.61 H	103	28.7	16.4
6	#14050.00	33.7 AV	68.2	-34.5	1.61 H	103	17.3	16.4
7	21075.00	50.0 PK	74.0	-24.0	1.97 H	46	54.3	-4.3
8	21075.00	38.3 AV	54.0	-15.7	1.97 H	46	42.6	-4.3
9	#28100.00	40.8 PK	88.2	-47.4	1.97 H	98	42.2	-1.4
10	#28100.00	31.9 AV	68.2	-36.3	1.97 H	98	33.3	-1.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7025.00	110.2 PK			1.37 V	241	101.2	9.0
2	*7025.00	100.4 AV			1.37 V	241	91.4	9.0
3	#7134.00	57.0 PK	88.2	-31.2	1.37 V	241	47.2	9.8
4	#7134.00	45.7 AV	68.2	-22.5	1.37 V	241	35.9	9.8
5	#14050.00	46.5 PK	88.2	-41.7	1.28 V	161	30.1	16.4
6	#14050.00	34.6 AV	68.2	-33.6	1.28 V	161	18.2	16.4
7	21075.00	49.2 PK	74.0	-24.8	1.84 V	238	53.5	-4.3
8	21075.00	37.2 AV	54.0	-16.8	1.84 V	238	41.5	-4.3
9	#28100.00	42.9 PK	88.2	-45.3	2.16 V	180	44.3	-1.4
10	#28100.00	33.1 AV	68.2	-35.1	2.16 V	180	34.5	-1.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 47：6185 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	51.0 PK	88.2	-37.2	1.65 H	297	46.1	4.9
2	#5925.00	39.7 AV	68.2	-28.5	1.65 H	297	34.8	4.9
3	*6185.00	112.8 PK			1.65 H	297	107.4	5.4
4	*6185.00	100.8 AV			1.65 H	297	95.4	5.4
5	12370.00	44.9 PK	74.0	-29.1	1.63 H	112	31.6	13.3
6	12370.00	33.5 AV	54.0	-20.5	1.63 H	112	20.2	13.3
7	18555.00	50.6 PK	74.0	-23.4	1.96 H	37	57.8	-7.2
8	18555.00	38.6 AV	54.0	-15.4	1.96 H	37	45.8	-7.2
9	#24740.00	40.2 PK	88.2	-48.0	1.98 H	86	41.9	-1.7
10	#24740.00	31.5 AV	68.2	-36.7	1.98 H	86	33.2	-1.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	51.0 PK	88.2	-37.2	1.63 V	235	46.1	4.9
2	#5925.00	40.0 AV	68.2	-28.2	1.63 V	235	35.1	4.9
3	*6185.00	111.5 PK			1.63 V	235	106.1	5.4
4	*6185.00	100.2 AV			1.63 V	235	94.8	5.4
5	12370.00	46.3 PK	74.0	-27.7	1.32 V	152	33.0	13.3
6	12370.00	34.2 AV	54.0	-19.8	1.32 V	152	20.9	13.3
7	18555.00	49.8 PK	74.0	-24.2	1.90 V	224	57.0	-7.2
8	18555.00	37.6 AV	54.0	-16.4	1.90 V	224	44.8	-7.2
9	#24740.00	42.6 PK	88.2	-45.6	2.12 V	195	44.3	-1.7
10	#24740.00	33.1 AV	68.2	-35.1	2.12 V	195	34.8	-1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 79：6345 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6345.00	113.1 PK			1.67 H	299	106.9	6.2
2	*6345.00	100.9 AV			1.67 H	299	94.7	6.2
3	12690.00	45.3 PK	74.0	-28.7	1.55 H	103	31.3	14.0
4	12690.00	33.6 AV	54.0	-20.4	1.55 H	103	19.6	14.0
5	19035.00	50.1 PK	74.0	-23.9	1.99 H	30	57.0	-6.9
6	19035.00	38.3 AV	54.0	-15.7	1.99 H	30	45.2	-6.9
7	#25380.00	40.4 PK	88.2	-47.8	1.97 H	93	42.2	-1.8
8	#25380.00	31.5 AV	68.2	-36.7	1.97 H	93	33.3	-1.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6345.00	111.4 PK			1.62 V	244	105.2	6.2
2	*6345.00	100.0 AV			1.62 V	244	93.8	6.2
3	12690.00	46.5 PK	74.0	-27.5	1.30 V	156	32.5	14.0
4	12690.00	34.5 AV	54.0	-19.5	1.30 V	156	20.5	14.0
5	19035.00	49.5 PK	74.0	-24.5	1.80 V	252	56.4	-6.9
6	19035.00	37.2 AV	54.0	-16.8	1.80 V	252	44.1	-6.9
7	#25380.00	42.7 PK	88.2	-45.5	2.15 V	180	44.5	-1.8
8	#25380.00	33.1 AV	68.2	-35.1	2.15 V	180	34.9	-1.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 111：6505 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6505.00	112.6 PK			1.65 H	291	105.3	7.3
2	*6505.00	100.5 AV			1.65 H	291	93.2	7.3
3	#13010.00	44.7 PK	88.2	-43.5	1.63 H	101	30.4	14.3
4	#13010.00	33.4 AV	68.2	-34.8	1.63 H	101	19.1	14.3
5	19515.00	50.6 PK	74.0	-23.4	1.96 H	33	56.9	-6.3
6	19515.00	38.6 AV	54.0	-15.4	1.96 H	33	44.9	-6.3
7	#26020.00	40.6 PK	88.2	-47.6	1.98 H	102	42.0	-1.4
8	#26020.00	31.7 AV	68.2	-36.5	1.98 H	102	33.1	-1.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6505.00	112.0 PK			1.61 V	227	104.7	7.3
2	*6505.00	100.5 AV			1.61 V	227	93.2	7.3
3	#13010.00	46.4 PK	88.2	-41.8	1.30 V	169	32.1	14.3
4	#13010.00	34.3 AV	68.2	-33.9	1.30 V	169	20.0	14.3
5	19515.00	48.9 PK	74.0	-25.1	1.82 V	250	55.2	-6.3
6	19515.00	37.1 AV	54.0	-16.9	1.82 V	250	43.4	-6.3
7	#26020.00	42.6 PK	88.2	-45.6	2.15 V	185	44.0	-1.4
8	#26020.00	32.7 AV	68.2	-35.5	2.15 V	185	34.1	-1.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 143：6665 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6665.00	112.3 PK			1.70 H	303	104.9	7.4
2	*6665.00	100.4 AV			1.70 H	303	93.0	7.4
3	13330.00	45.2 PK	74.0	-28.8	1.56 H	115	29.7	15.5
4	13330.00	33.7 AV	54.0	-20.3	1.56 H	115	18.2	15.5
5	19995.00	50.1 PK	74.0	-23.9	2.00 H	61	55.8	-5.7
6	19995.00	38.3 AV	54.0	-15.7	2.00 H	61	44.0	-5.7
7	#26660.00	40.5 PK	88.2	-47.7	1.99 H	111	41.1	-0.6
8	#26660.00	31.8 AV	68.2	-36.4	1.99 H	111	32.4	-0.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6665.00	112.9 PK			1.34 V	245	105.5	7.4
2	*6665.00	101.4 AV			1.34 V	245	94.0	7.4
3	13330.00	46.4 PK	74.0	-27.6	1.32 V	174	30.9	15.5
4	13330.00	34.8 AV	54.0	-19.2	1.32 V	174	19.3	15.5
5	19995.00	49.0 PK	74.0	-25.0	1.89 V	227	54.7	-5.7
6	19995.00	37.3 AV	54.0	-16.7	1.89 V	227	43.0	-5.7
7	#26660.00	42.8 PK	88.2	-45.4	2.16 V	173	43.4	-0.6
8	#26660.00	32.8 AV	68.2	-35.4	2.16 V	173	33.4	-0.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 175：6825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6825.00	112.6 PK			1.63 H	295	105.2	7.4
2	*6825.00	100.5 AV			1.63 H	295	93.1	7.4
3	#13650.00	45.4 PK	88.2	-42.8	1.59 H	101	29.5	15.9
4	#13650.00	34.2 AV	68.2	-34.0	1.59 H	101	18.3	15.9
5	20475.00	49.8 PK	74.0	-24.2	1.99 H	42	54.9	-5.1
6	20475.00	38.1 AV	54.0	-15.9	1.99 H	42	43.2	-5.1
7	#27300.00	41.2 PK	88.2	-47.0	1.97 H	86	43.0	-1.8
8	#27300.00	32.1 AV	68.2	-36.1	1.97 H	86	33.9	-1.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6825.00	112.0 PK			1.39 V	245	104.6	7.4
2	*6825.00	101.0 AV			1.39 V	245	93.6	7.4
3	#13650.00	46.8 PK	88.2	-41.4	1.24 V	154	30.9	15.9
4	#13650.00	34.6 AV	68.2	-33.6	1.24 V	154	18.7	15.9
5	20475.00	49.1 PK	74.0	-24.9	1.89 V	222	54.2	-5.1
6	20475.00	37.0 AV	54.0	-17.0	1.89 V	222	42.1	-5.1
7	#27300.00	43.5 PK	88.2	-44.7	2.21 V	191	45.3	-1.8
8	#27300.00	33.5 AV	68.2	-34.7	2.21 V	191	35.3	-1.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 207：6985 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6985.00	109.0 PK			1.52 H	121	100.5	8.5
2	*6985.00	98.7 AV			1.52 H	121	90.2	8.5
3	#7131.50	70.5 PK	88.2	-17.7	1.52 H	121	60.8	9.7
4	#7131.50	59.9 AV	68.2	-8.3	1.52 H	121	50.2	9.7
5	#13970.00	45.4 PK	88.2	-42.8	1.67 H	99	29.3	16.1
6	#13970.00	33.7 AV	68.2	-34.5	1.67 H	99	17.6	16.1
7	20955.00	50.4 PK	74.0	-23.6	1.93 H	44	54.9	-4.5
8	20955.00	38.6 AV	54.0	-15.4	1.93 H	44	43.1	-4.5
9	#27940.00	40.7 PK	88.2	-47.5	1.97 H	113	41.9	-1.2
10	#27940.00	31.8 AV	68.2	-36.4	1.97 H	113	33.0	-1.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6985.00	112.3 PK			1.34 V	252	103.8	8.5
2	*6985.00	101.0 AV			1.34 V	252	92.5	8.5
3	#7135.00	71.7 PK	88.2	-16.5	1.34 V	252	61.9	9.8
4	#7135.00	60.2 AV	68.2	-8.0	1.34 V	252	50.4	9.8
5	#13970.00	46.2 PK	88.2	-42.0	1.29 V	147	30.1	16.1
6	#13970.00	34.5 AV	68.2	-33.7	1.29 V	147	18.4	16.1
7	20955.00	49.7 PK	74.0	-24.3	1.80 V	240	54.2	-4.5
8	20955.00	37.5 AV	54.0	-16.5	1.80 V	240	42.0	-4.5
9	#27940.00	42.8 PK	88.2	-45.4	2.21 V	186	44.0	-1.2
10	#27940.00	32.7 AV	68.2	-35.5	2.21 V	186	33.9	-1.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

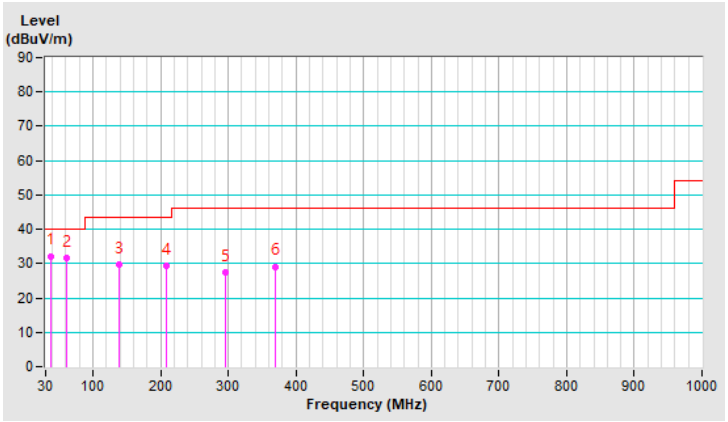
Below 1GHz Data:

RF Mode	TX 802.11ax (HE160)	Channel	CH 175：6825 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	38.68	32.2 QP	40.0	-7.8	1.00 H	0	40.4	-8.2
2	61.69	31.6 QP	40.0	-8.4	3.00 H	168	40.1	-8.5
3	138.06	29.6 QP	43.5	-13.9	2.00 H	92	37.1	-7.5
4	208.46	29.5 QP	43.5	-14.0	1.00 H	253	39.5	-10.0
5	296.05	27.5 QP	46.0	-18.5	3.00 H	208	33.6	-6.1
6	369.65	29.2 QP	46.0	-16.8	3.00 H	279	33.0	-3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

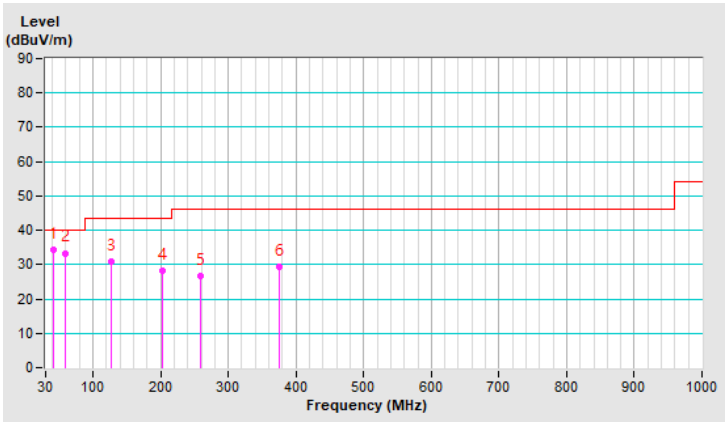


RF Mode	TX 802.11ax (HE160)	Channel	CH 175：6825 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	41.98	34.2 QP	40.0	-5.8	1.50 V	0	42.0	-7.8
2	59.37	33.4 QP	40.0	-6.6	1.50 V	128	41.5	-8.1
3	127.70	30.7 QP	43.5	-12.8	1.00 V	306	39.1	-8.4
4	202.47	28.1 QP	43.5	-15.4	1.00 V	69	38.2	-10.1
5	258.14	26.8 QP	46.0	-19.2	1.00 V	193	34.5	-7.7
6	375.08	29.3 QP	46.0	-16.7	1.00 V	182	33.0	-3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 In-Ban Emission (Mask) Measurement

4.2.1 Limits of In-Band Emission (Mask) Measurement

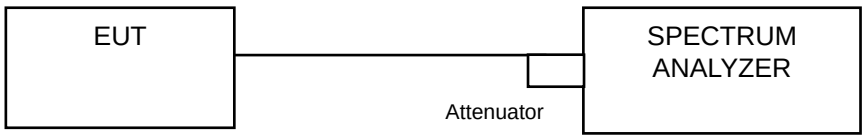
Test Item	Frequencies (MHz)	(X) dBc*1
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center*2	28
	At one- and one-half times the channel bandwidth away from channel center *3	40
	More than one- and one-half times the channel bandwidth	40

*1 :The power spectral density must be suppressed by “x” dB

*2 : At frequencies between one megahertz outside an unlicensed device’s channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression,

*3 : At frequencies between one and one- and one-half times an unlicensed device’s channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

4.2.2 Test Setup



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

a. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.

b. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)

c. Measure the power spectral density (for emissions mask reference) using the following procedure:

   a) Set the span to encompass the entire 26 dB EBW of the signal.

   b) Set RBW = same RBW used for 26 dB EBW measurement.

   c) Set VBW ≥ 3 X RBW

   d) Number of points in sweep ≥ [2 X span / RBW].

   e) Sweep time = auto.

   f) Detector = RMS (i.e., power averaging)

   g) Trace average at least 100 traces in power averaging (rms) mode.

   h) Use the peak search function on the instrument to find the peak of the spectrum.

d. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:

   a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)

   b) Suppressed by 28 dB at one channel bandwidth from the channel center.

   c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

e. Adjust the span to encompass the entire mask as necessary and clear trace.

f. Trace average at least 100 traces in power averaging (rms) mode.

g. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

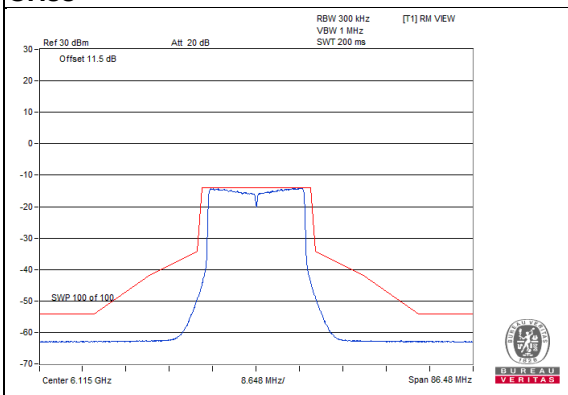
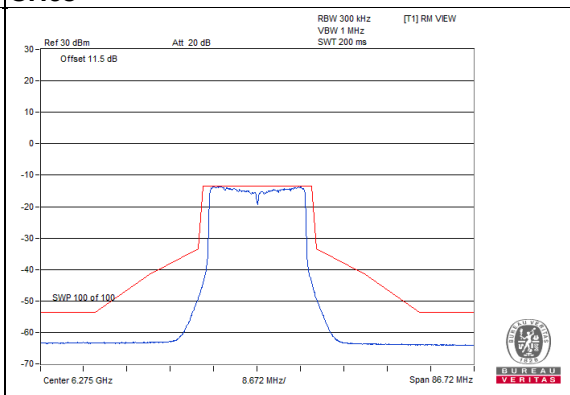
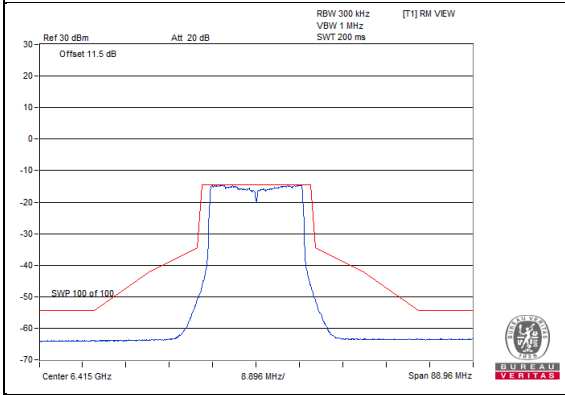
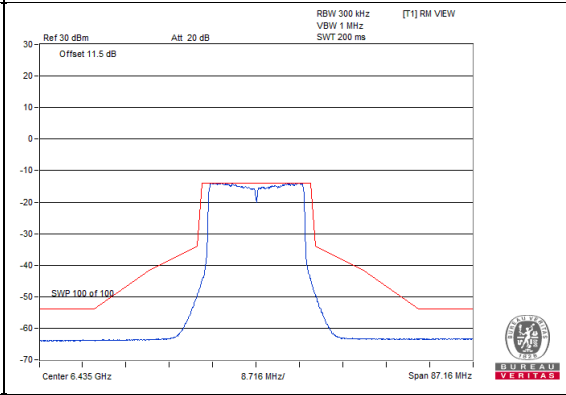
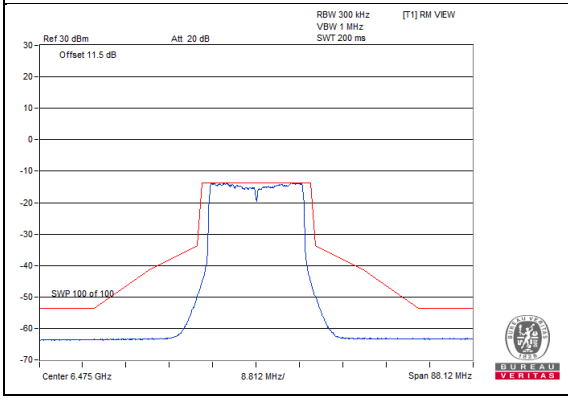
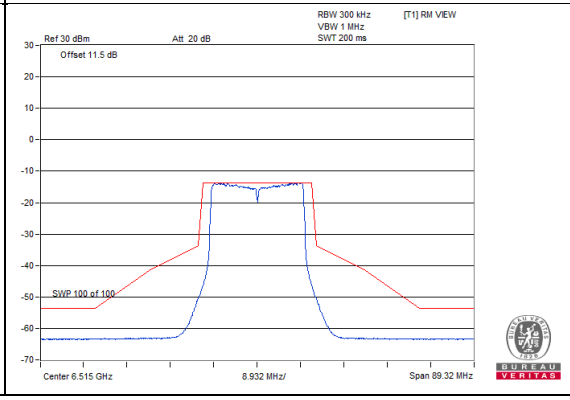
4.2.5 EUT Operating Condition

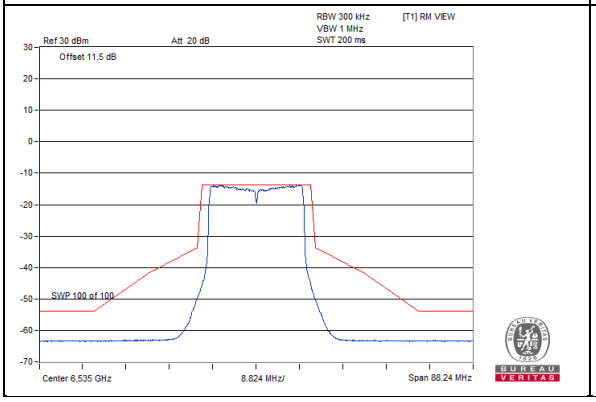
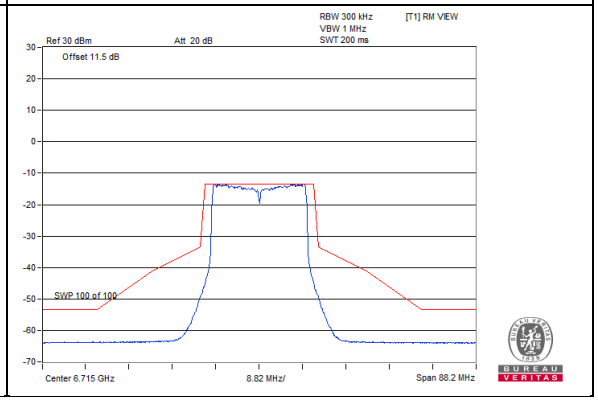
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.2.6 Test Results

CDD Mode:

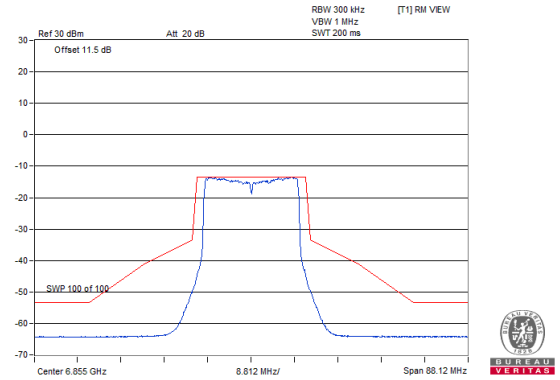
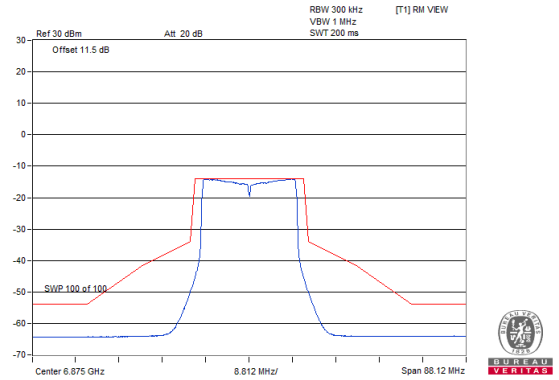
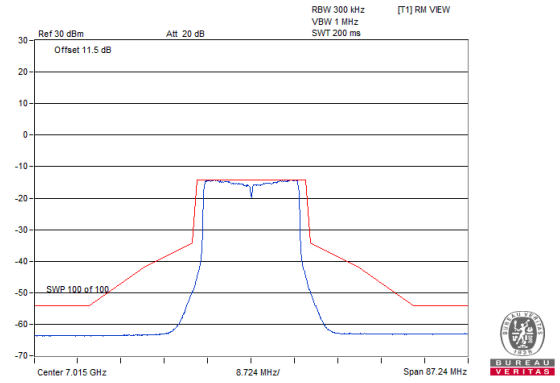
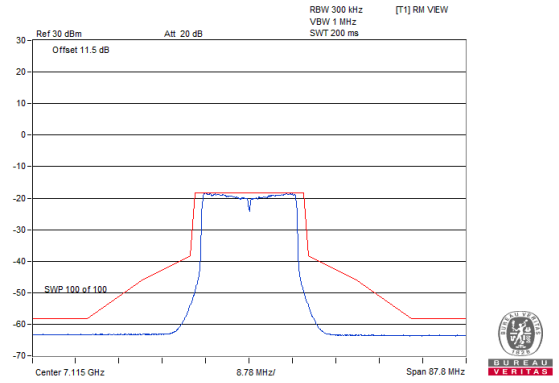
802.11ax (HE20)

Spectrum Plot of Worst Value	
Chain 0	
CH33	**CH65**
	
CH93	**CH97**
	
CH105	**CH113**
	

CH117	CH153
	

RBW 300 kHz
VBW 1 MHz
SWT 200 ms
[T1] RM VIEW
Ref 30 dBm
Att 20 dB
Offset 11.5 dB
SWP 100 of 100
Center 6.535 GHz
8.824 MHz/
Span 88.24 MHz

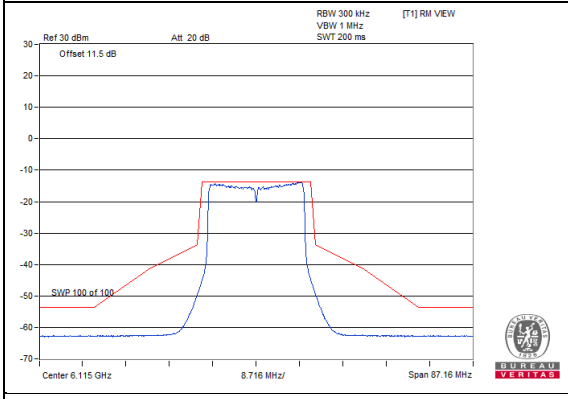
RBW 300 kHz
VBW 1 MHz
SWT 200 ms
[T1] RM VIEW
Ref 30 dBm
Att 20 dB
Offset 11.5 dB
SWP 100 of 100
Center 6.715 GHz
8.82 MHz/
Span 88.2 MHz

Spectrum Plot of Worst Value	
Chain 0	
CH181	**CH185**
	
CH213	**CH233**
	

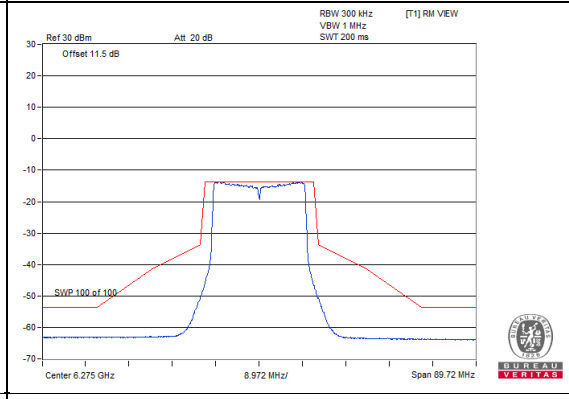
Spectrum Plot of Worst Value

Chain 1

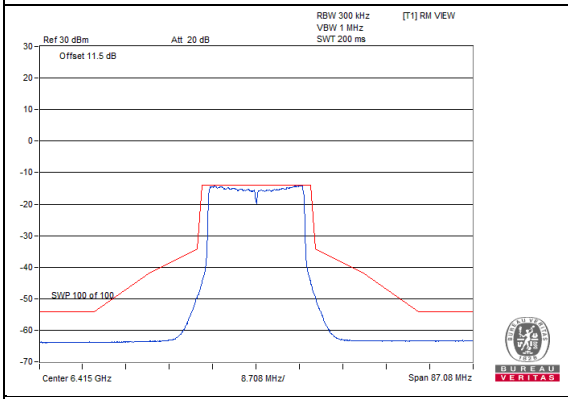
CH33



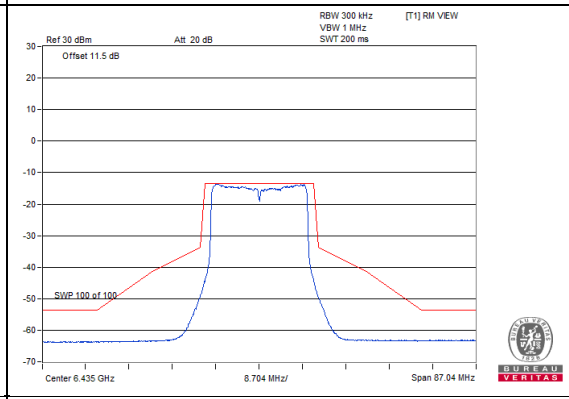
CH65



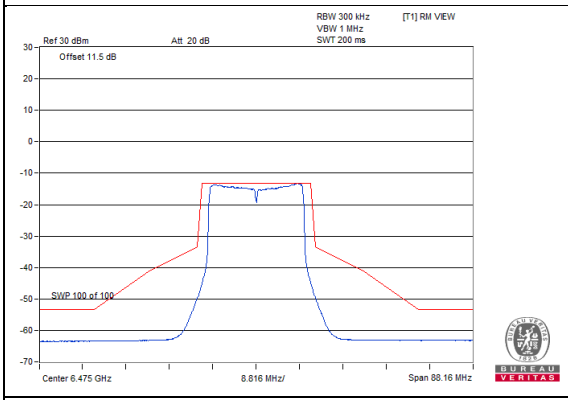
CH93



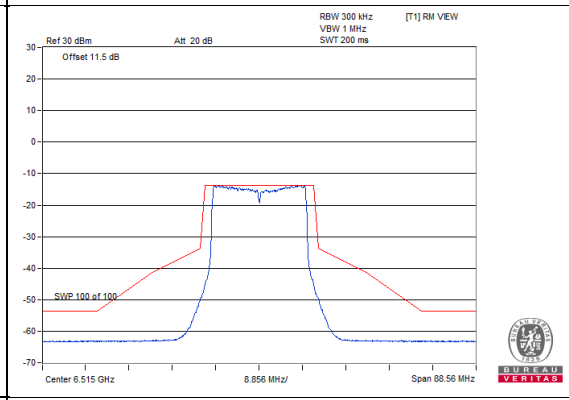
CH97



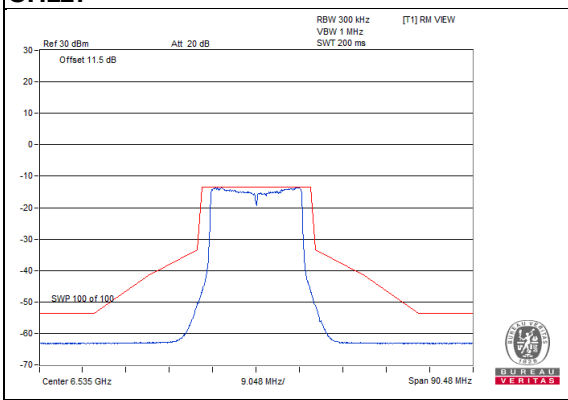
CH105



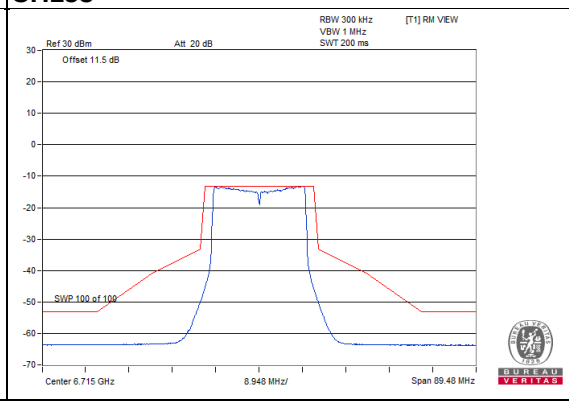
CH113

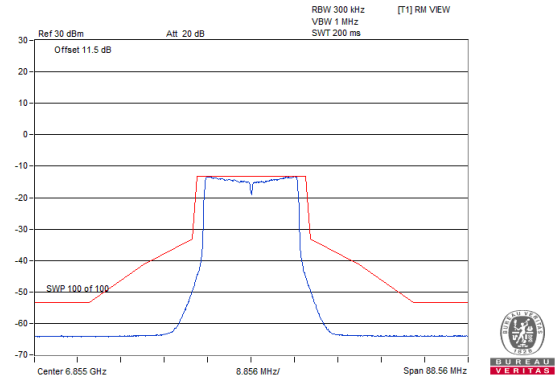
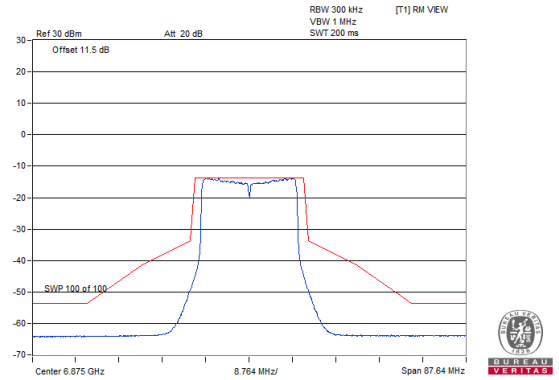
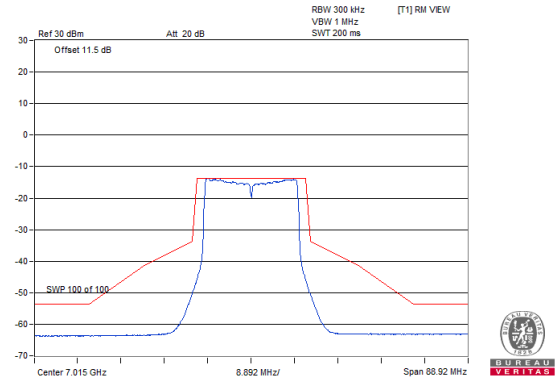
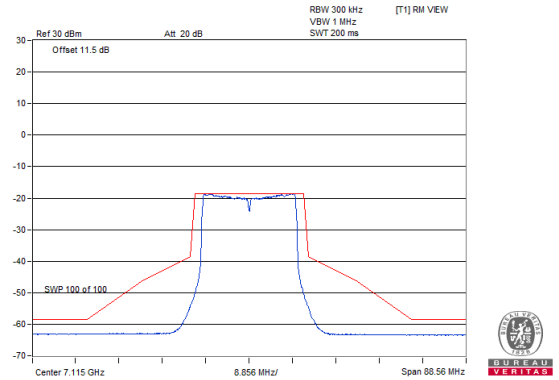


CH117



CH153

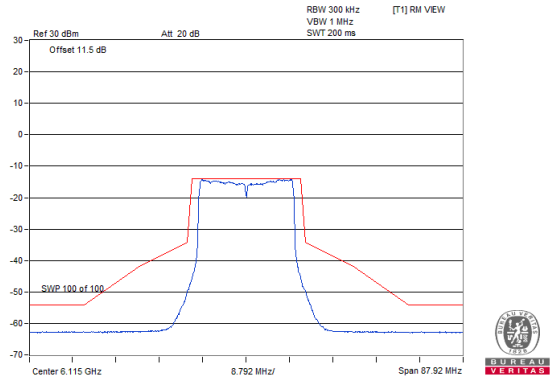


Spectrum Plot of Worst Value	
Chain 1	
CH181	**CH185**
	
CH213	**CH233**
	

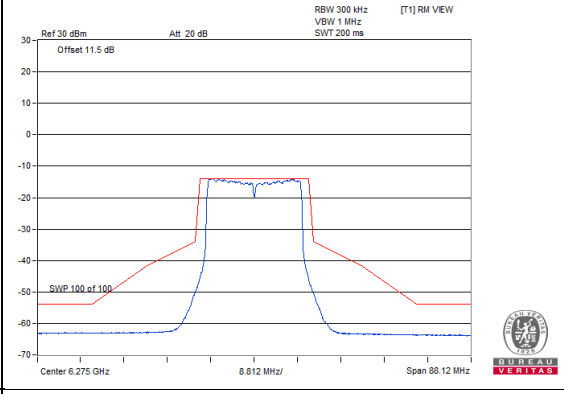
Spectrum Plot of Worst Value

Chain 2

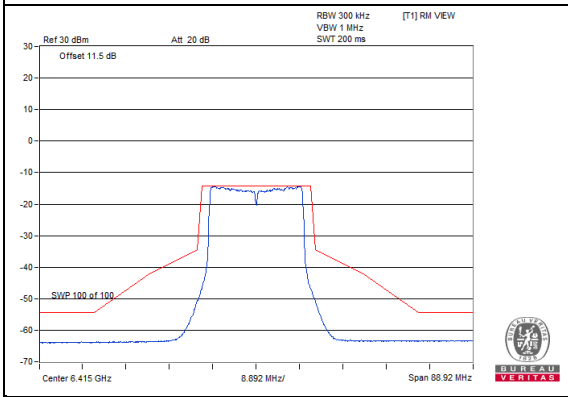
CH33



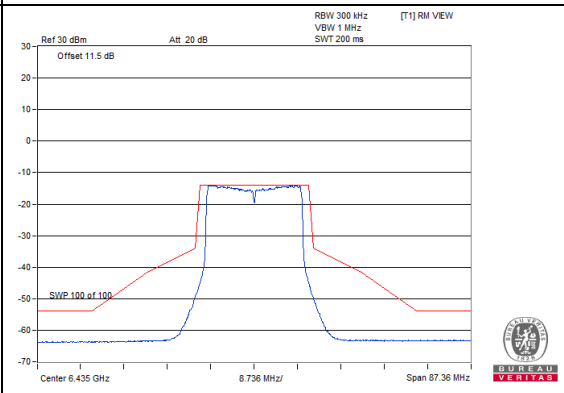
CH65



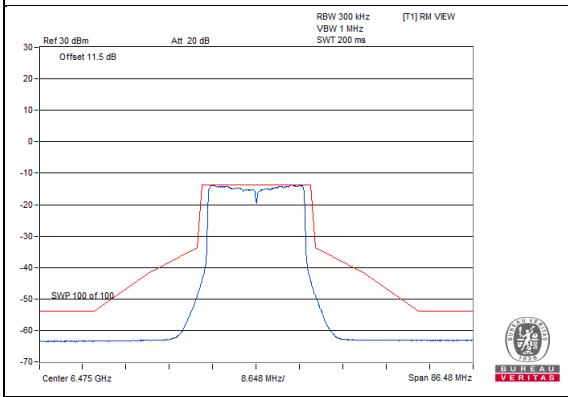
CH93



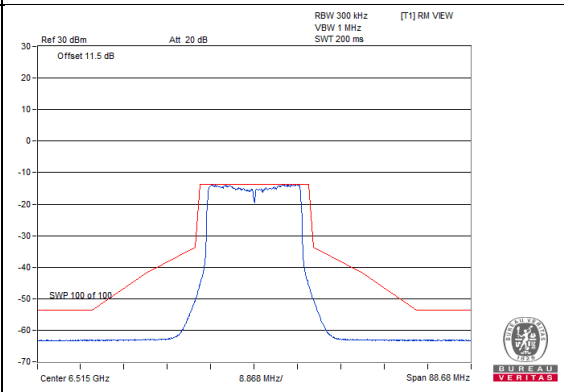
CH97



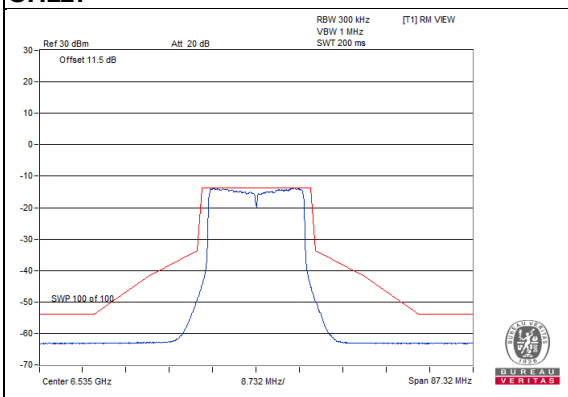
CH105



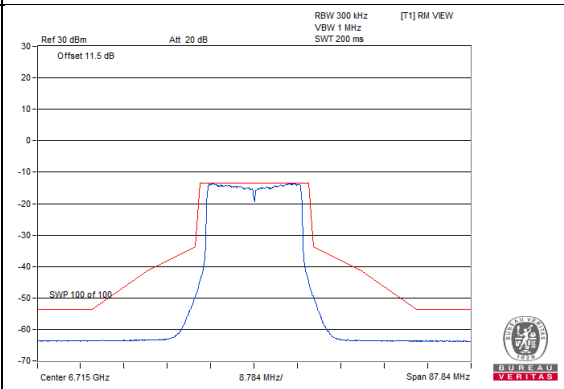
CH113

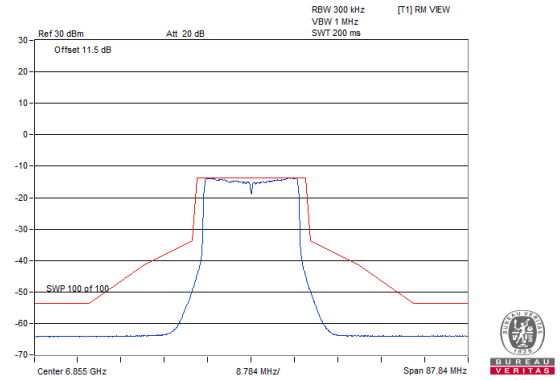
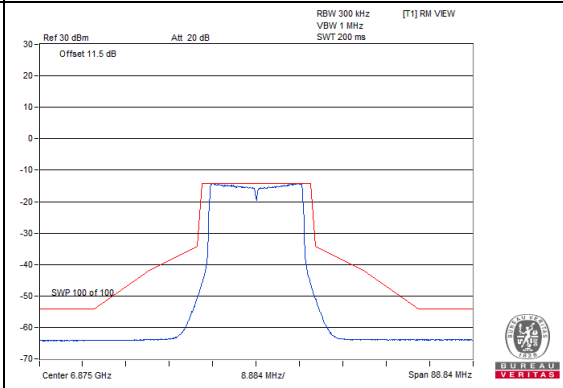
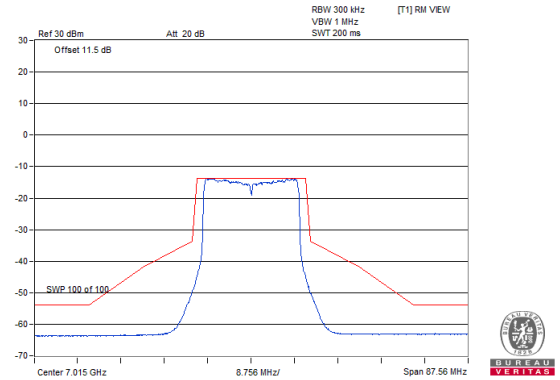
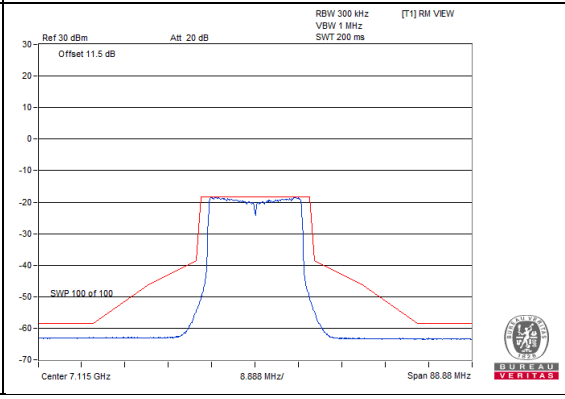


CH117



CH153

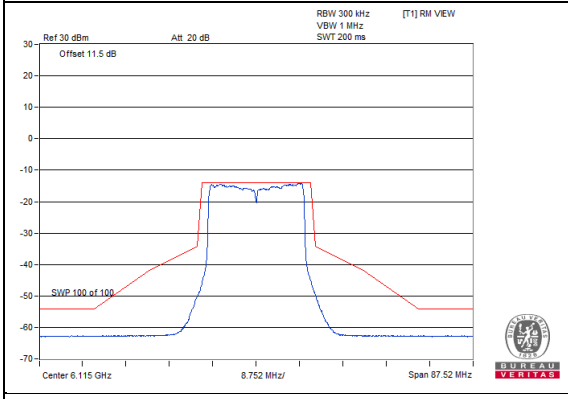


Spectrum Plot of Worst Value	
Chain 2	
CH181	**CH185**
	
CH213	**CH233**
	

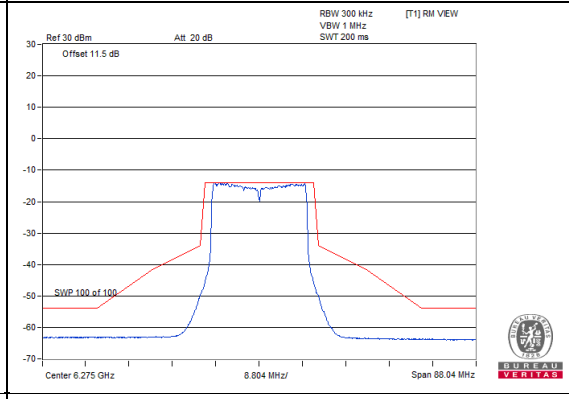
Spectrum Plot of Worst Value

Chain 3

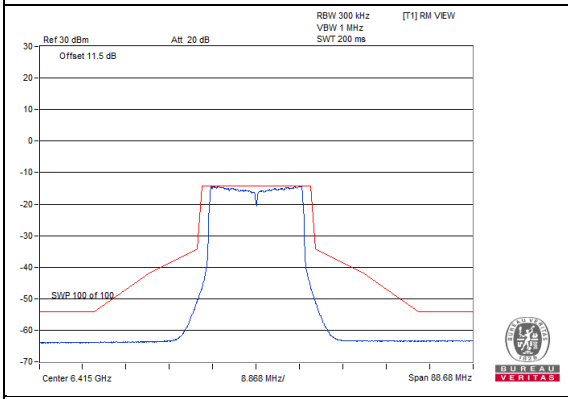
CH33



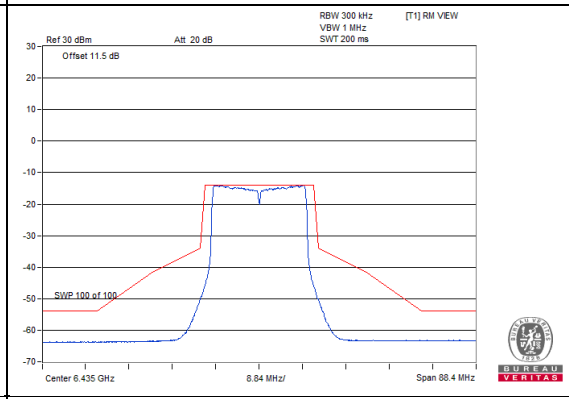
CH65



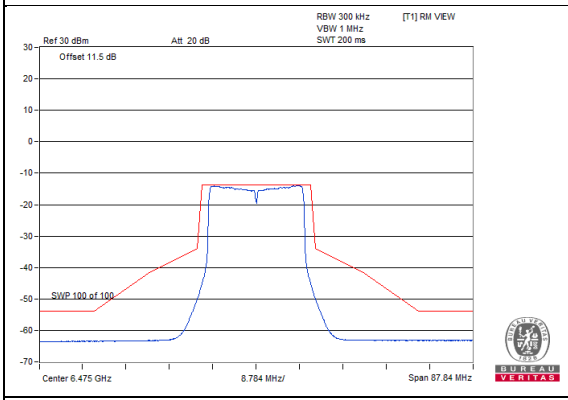
CH93



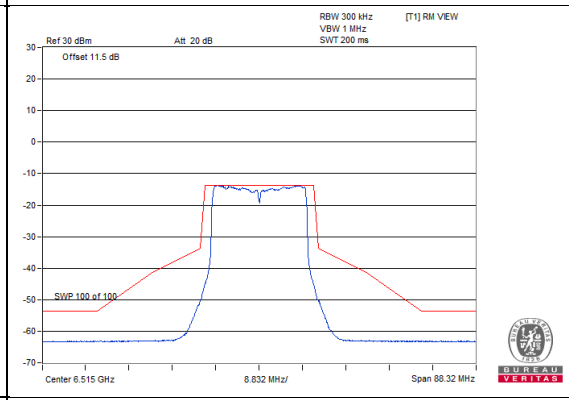
CH97



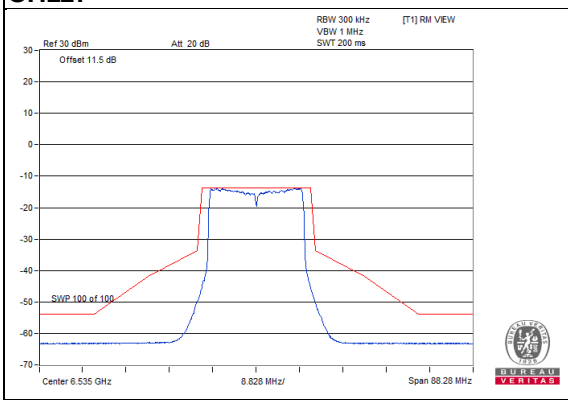
CH105



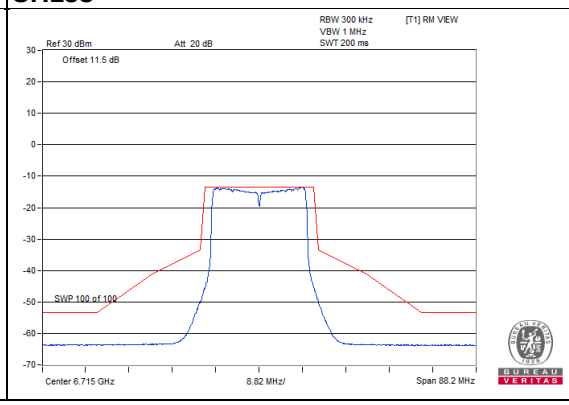
CH113

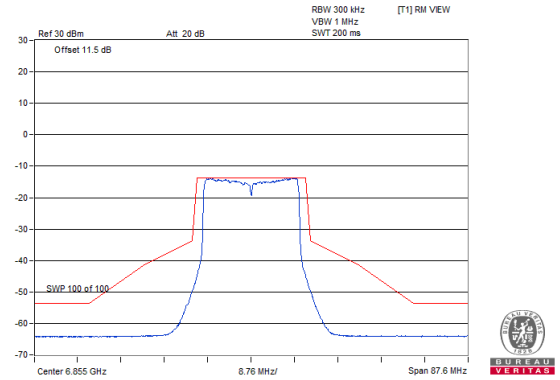
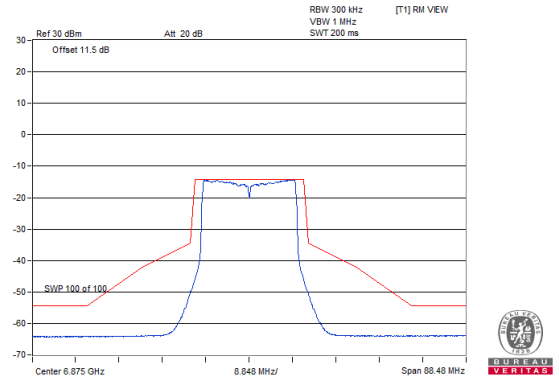
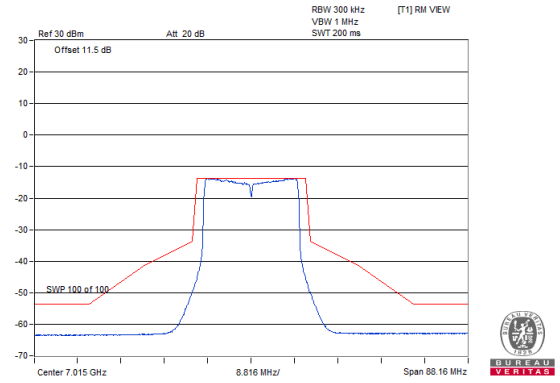
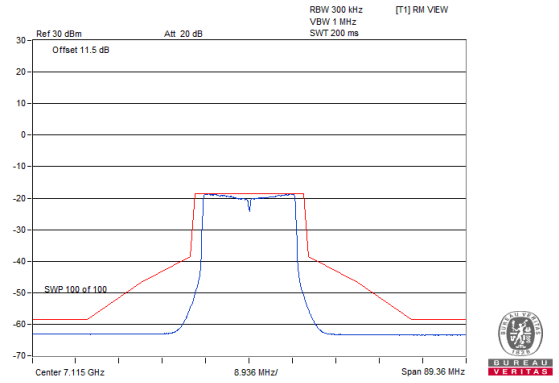


CH117

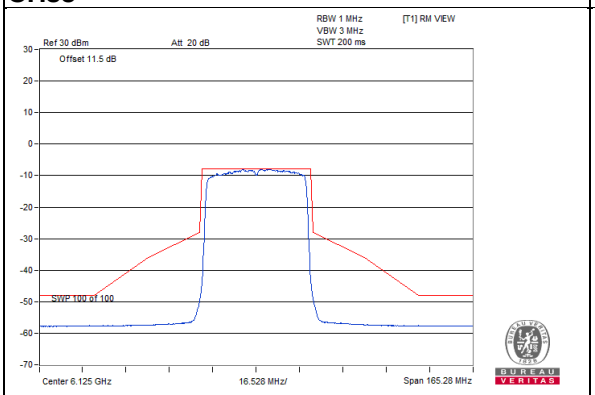
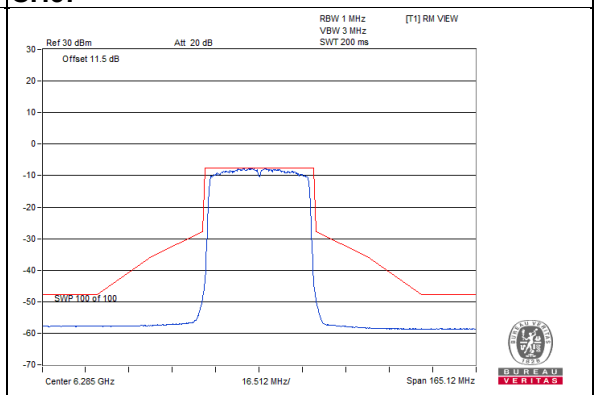
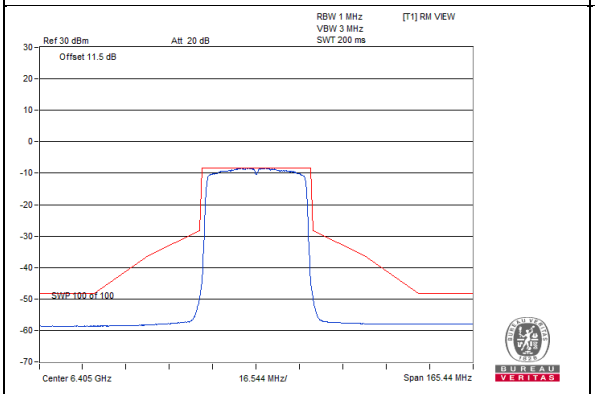
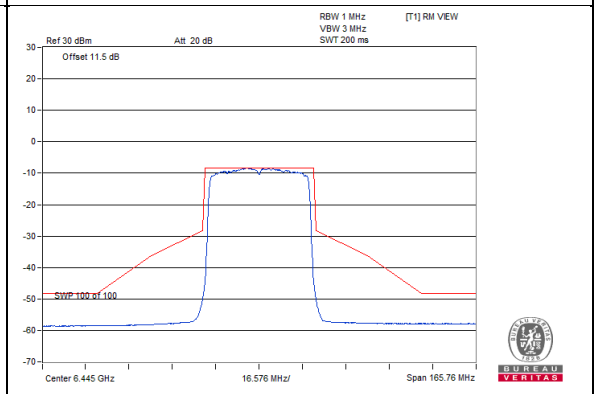
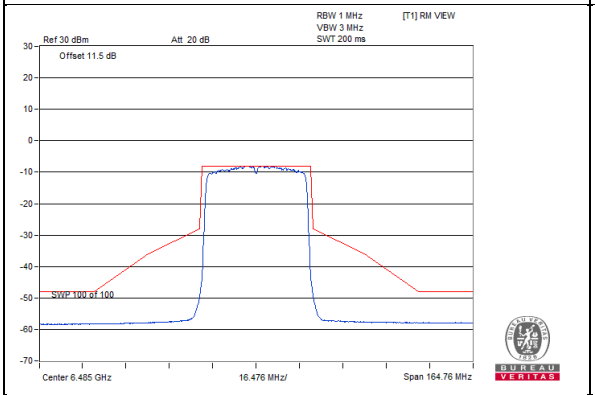
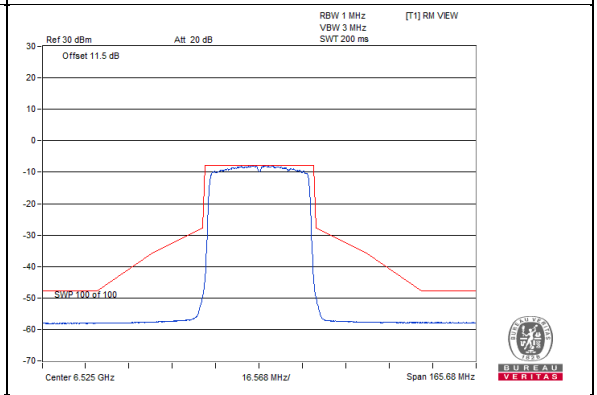
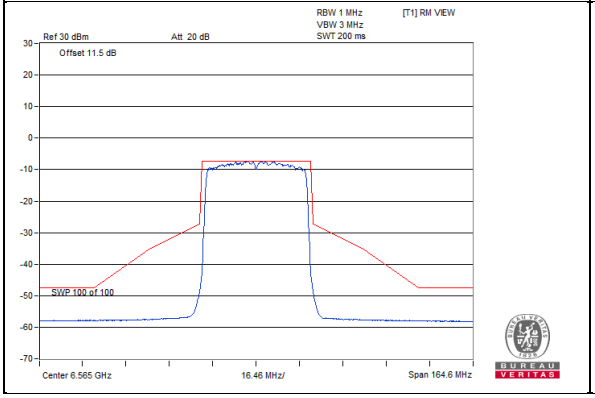
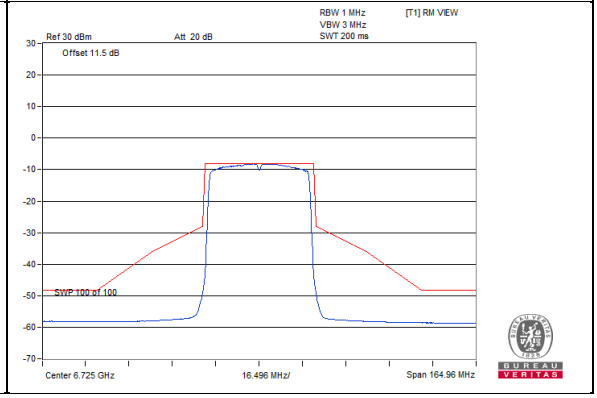


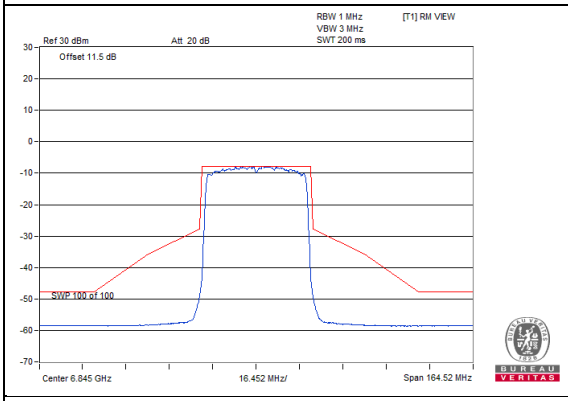
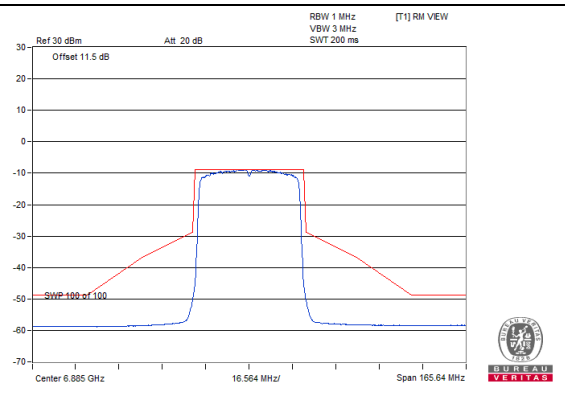
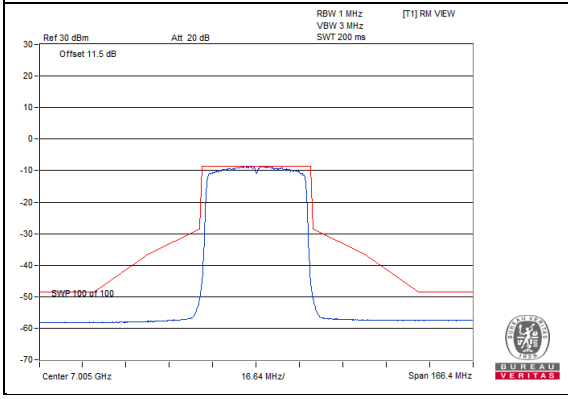
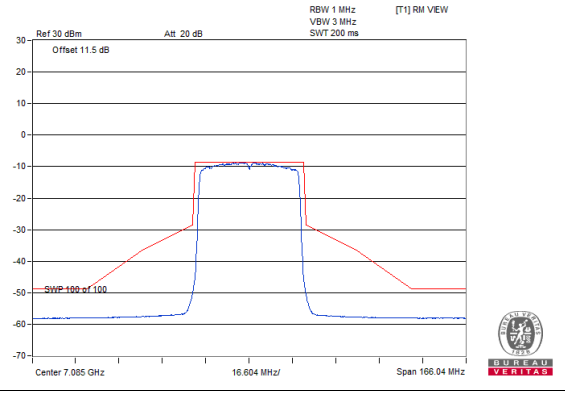
CH153



Spectrum Plot of Worst Value	
Chain 3	
CH181	**CH185**
	
CH213	**CH233**
	

802.11ax (HE40)

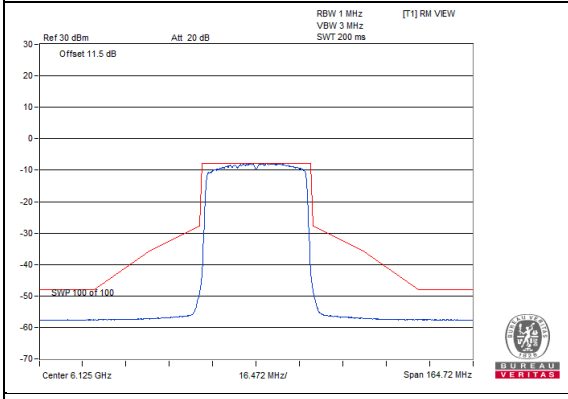
Spectrum Plot of Worst Value	
Chain 0	
CH35	**CH67**
	
CH91	**CH99**
	
CH107	**CH115**
	
CH123	**CH155**
	

Spectrum Plot of Worst Value	
Chain 0	
CH179	**CH187**
	
CH211	**CH227**
	

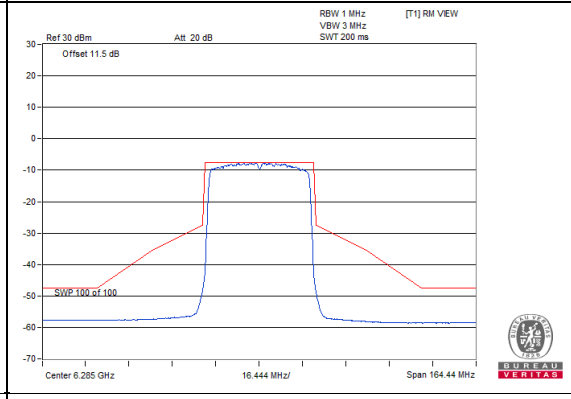
Spectrum Plot of Worst Value

Chain 1

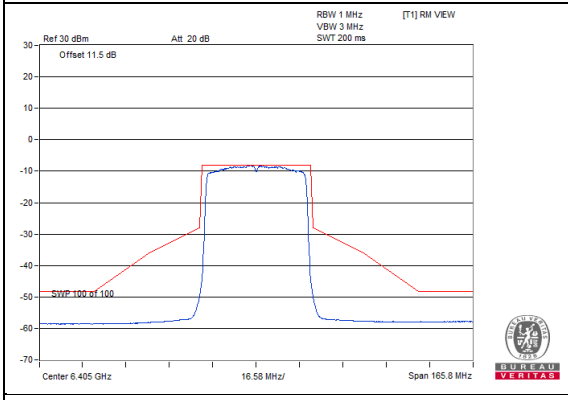
CH35



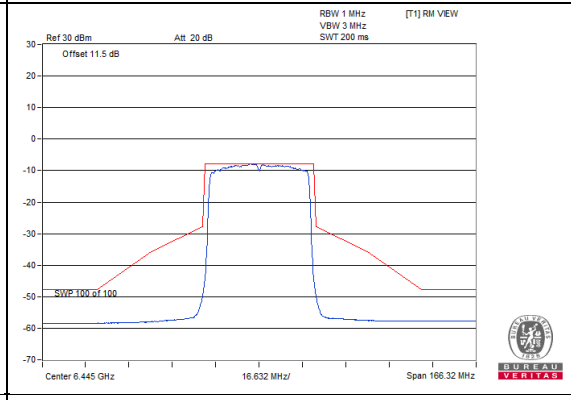
CH67



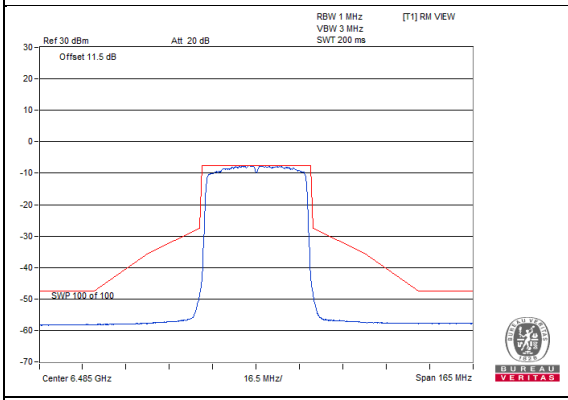
CH91



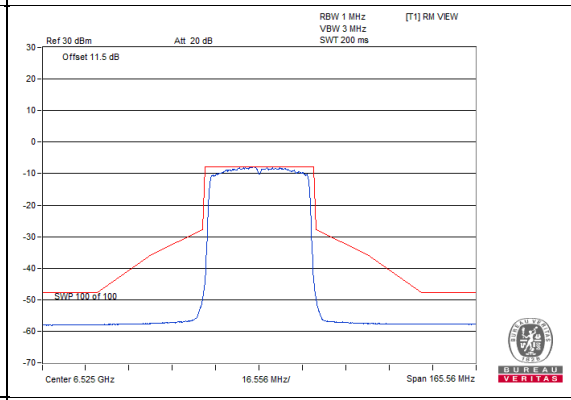
CH99



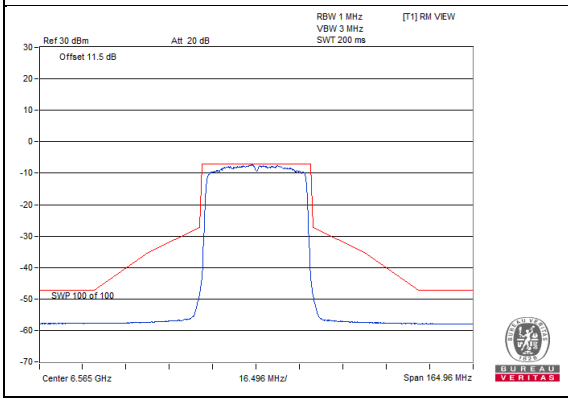
CH107



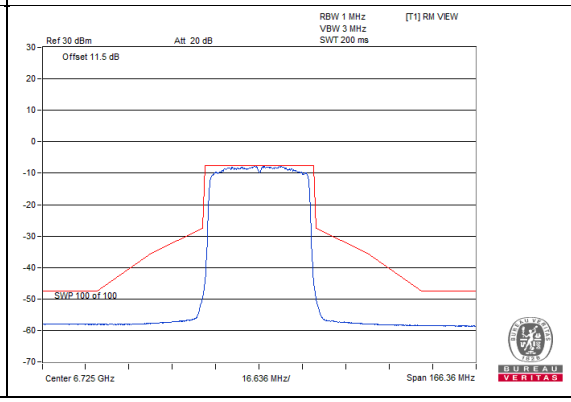
CH115

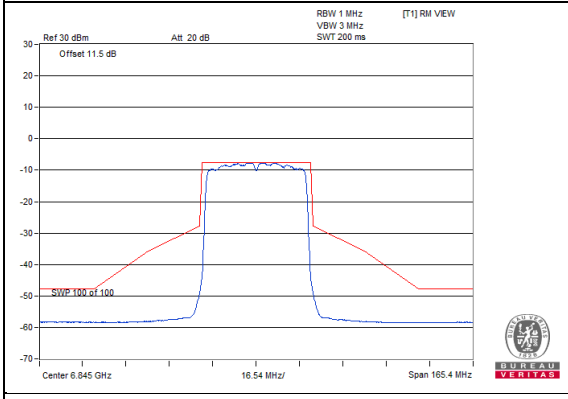
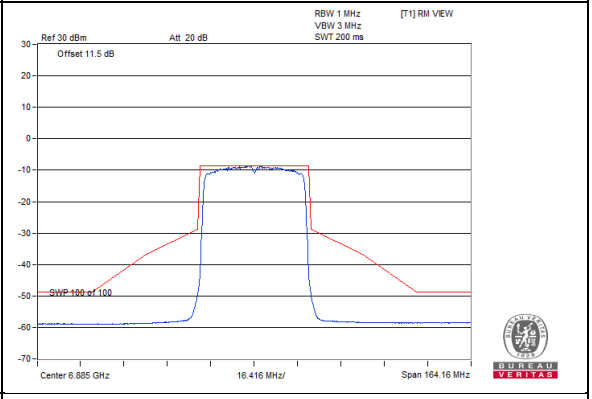
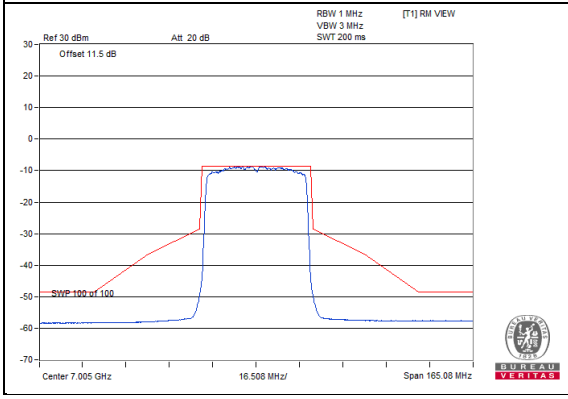
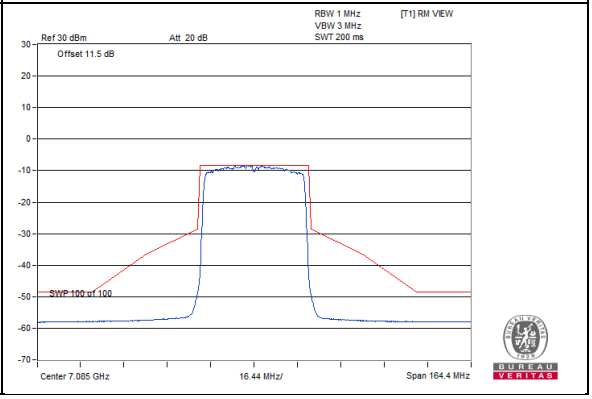


CH123



CH155

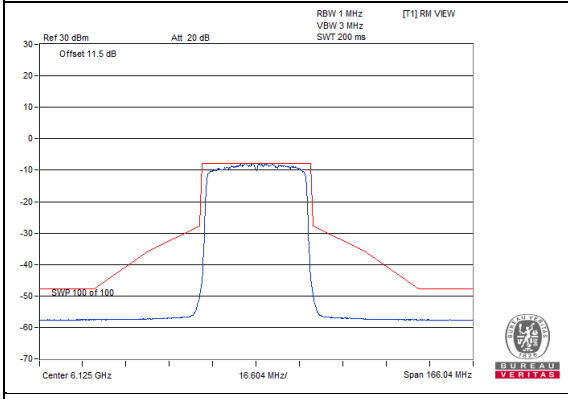


Spectrum Plot of Worst Value	
Chain 1	
CH179	**CH187**
	
CH211	**CH227**
	

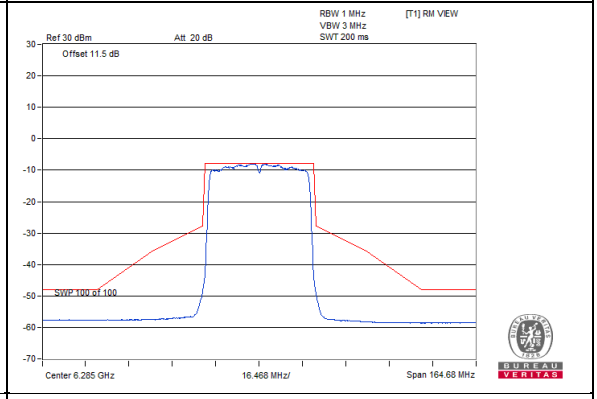
Spectrum Plot of Worst Value

Chain 2

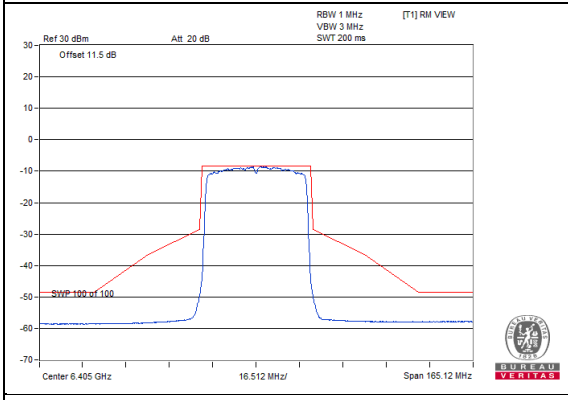
CH35



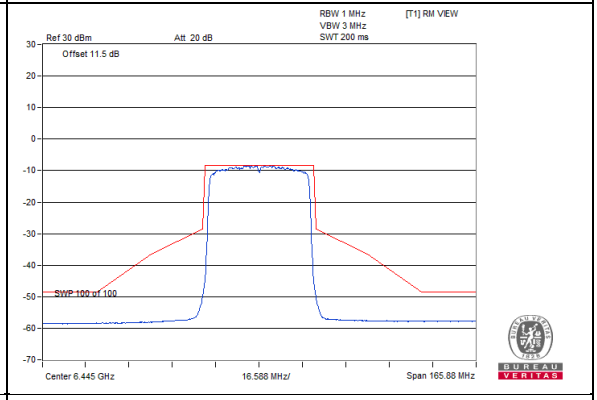
CH67



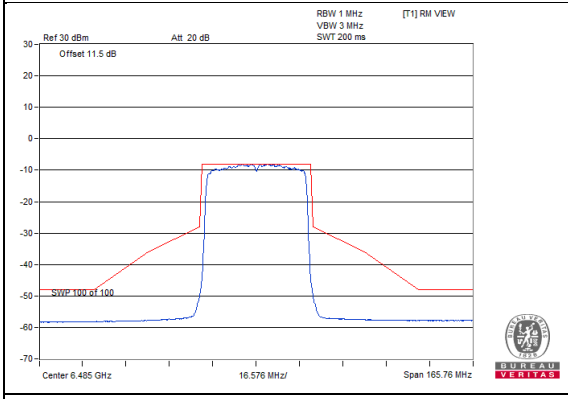
CH91



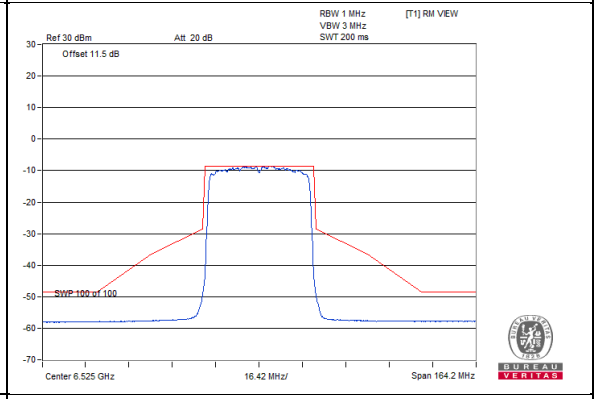
CH99



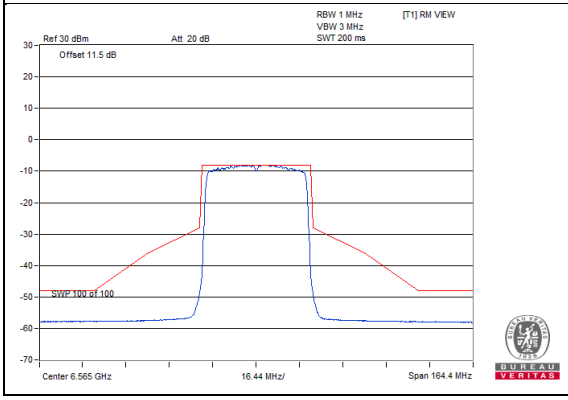
CH107



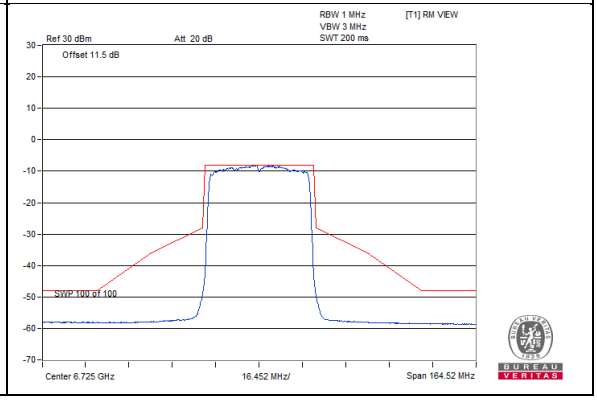
CH115

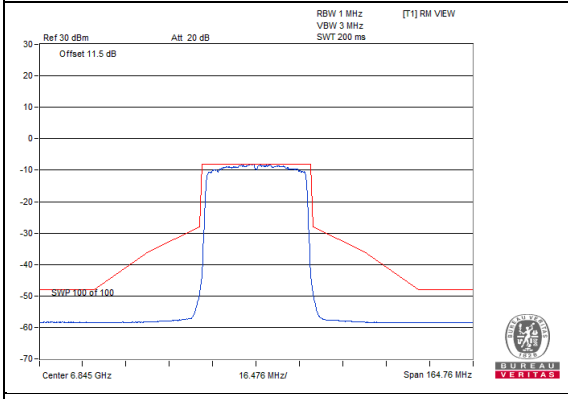
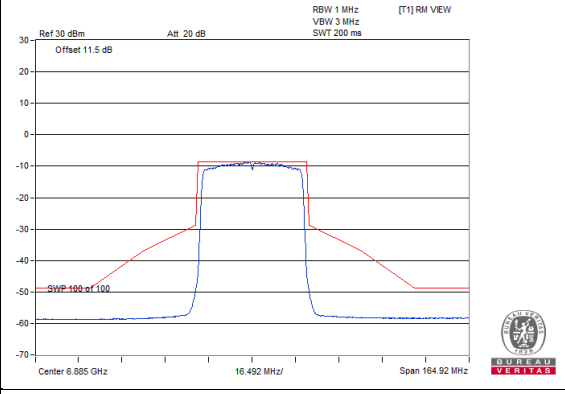
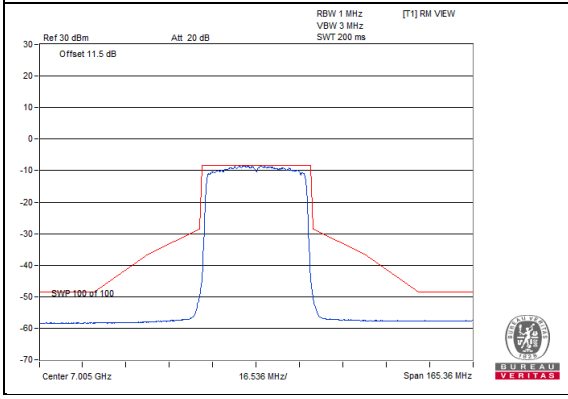
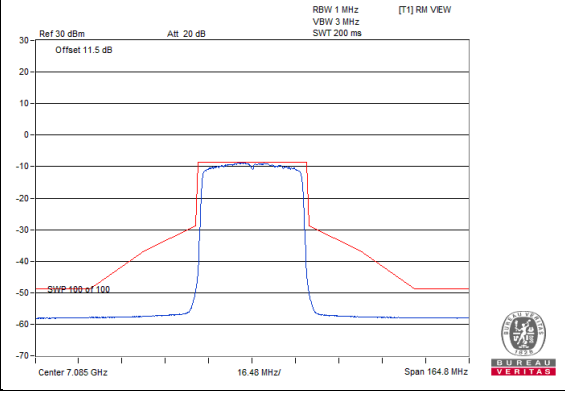


CH123



CH155

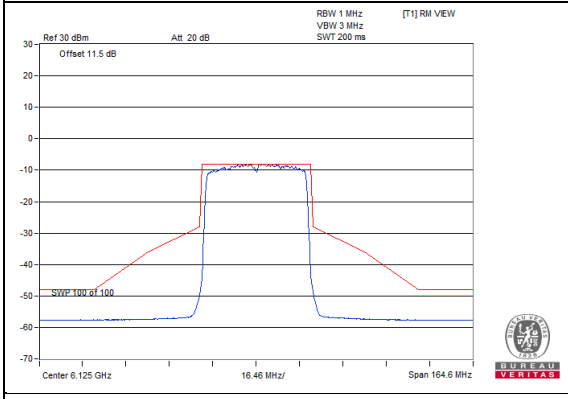


Spectrum Plot of Worst Value	
Chain 2	
CH179	**CH187**
	
CH211	**CH227**
	

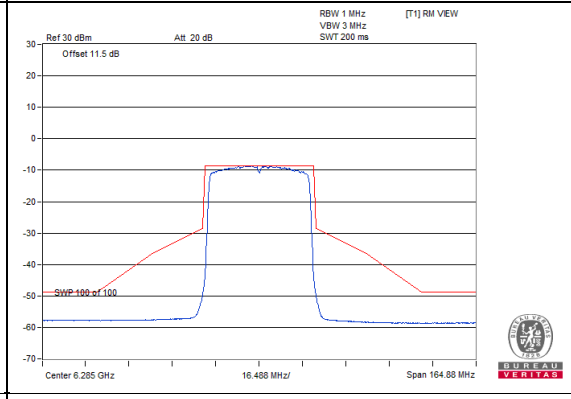
Spectrum Plot of Worst Value

Chain 3

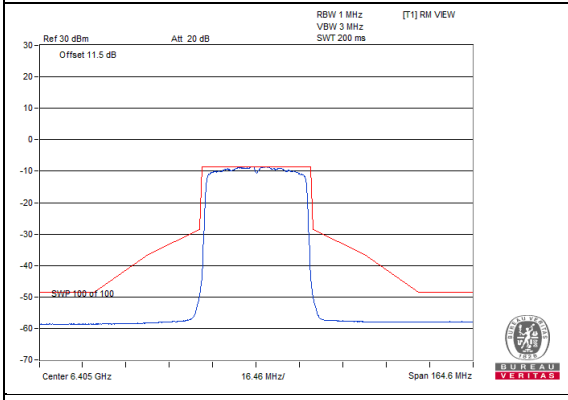
CH35



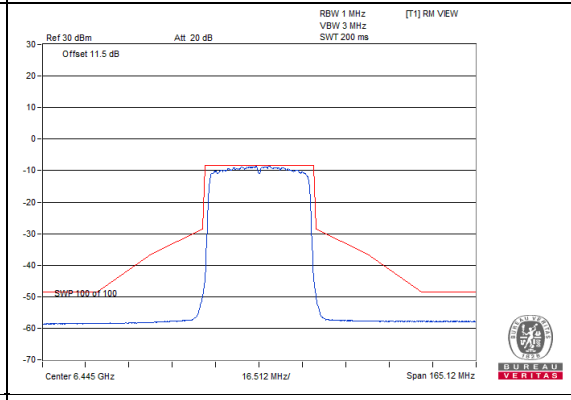
CH67



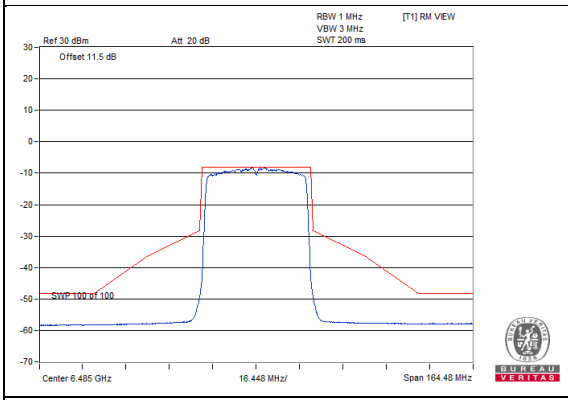
CH91



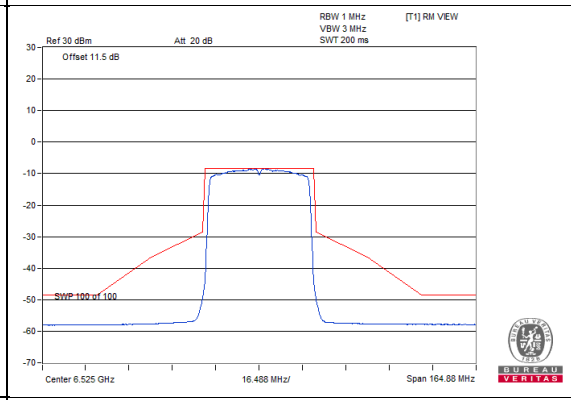
CH99



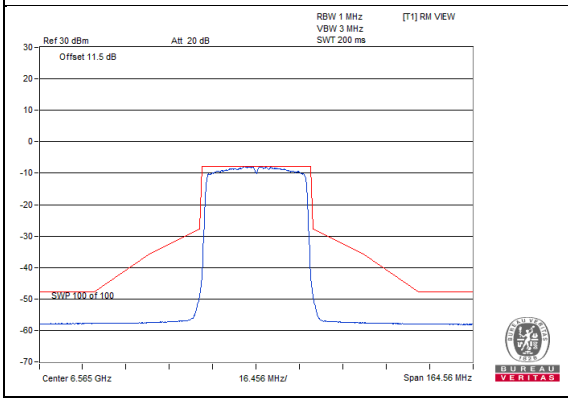
CH107



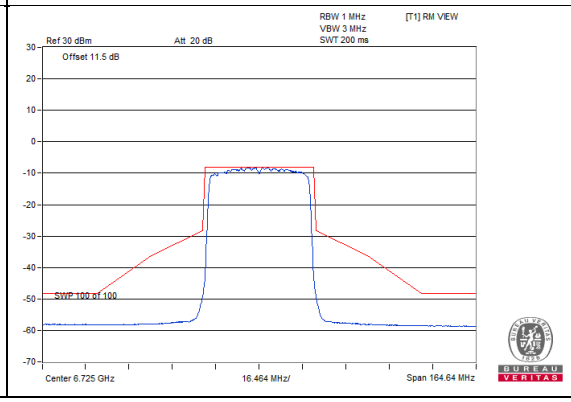
CH115

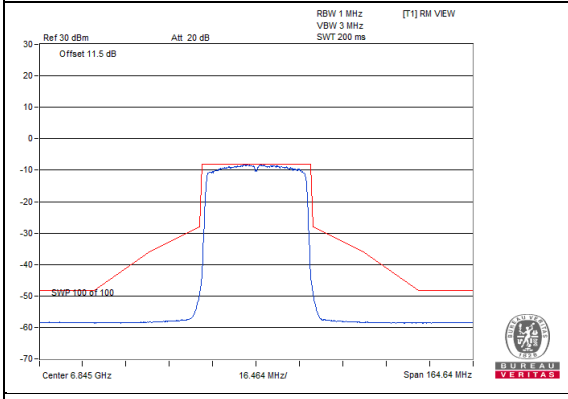
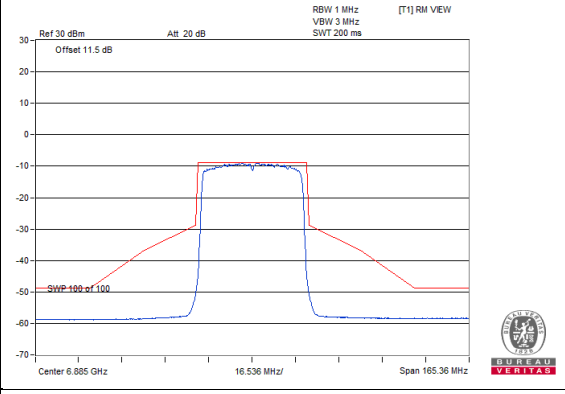
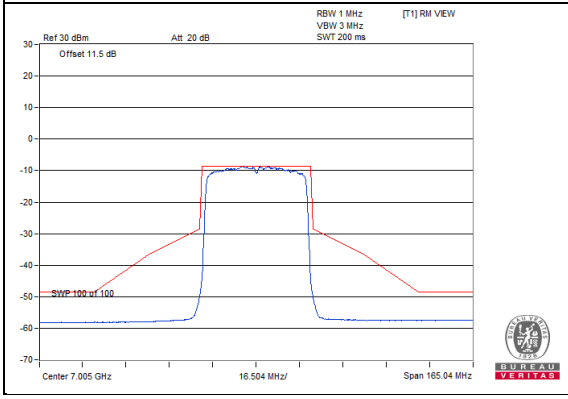
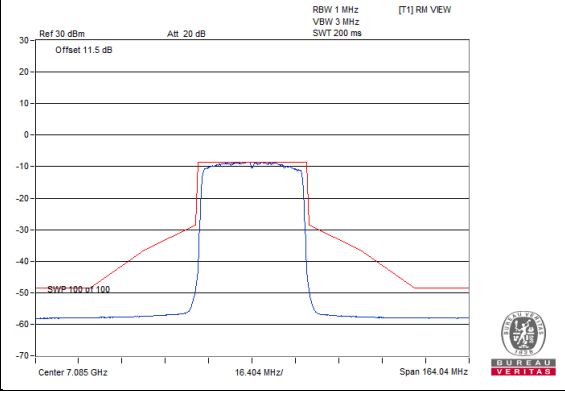


CH123

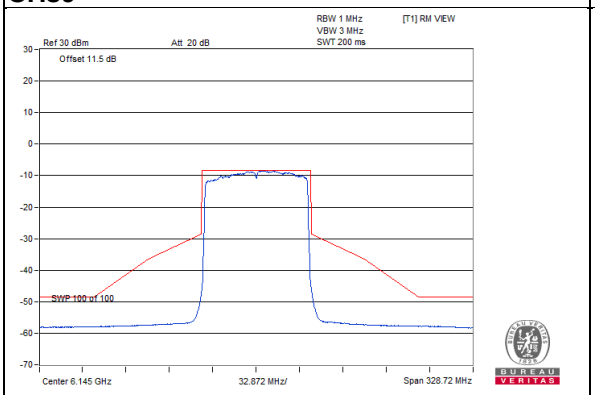
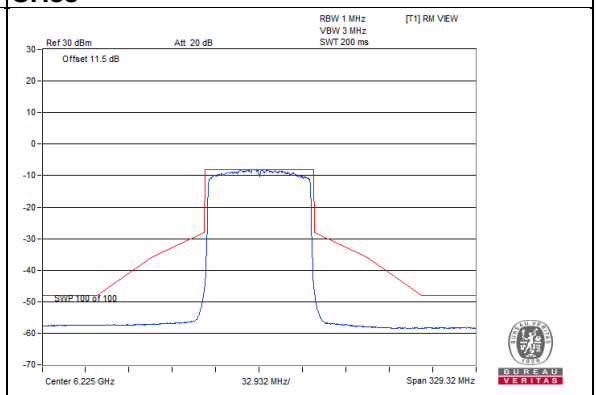
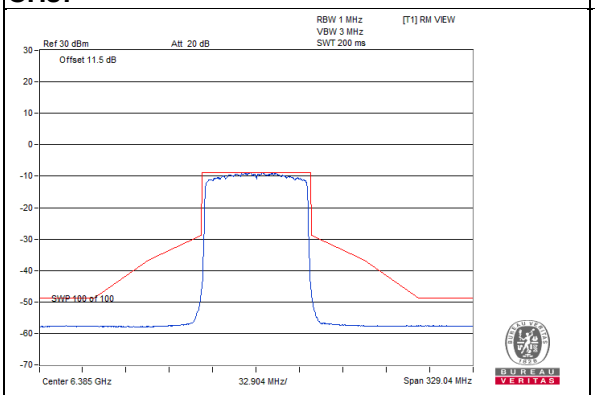
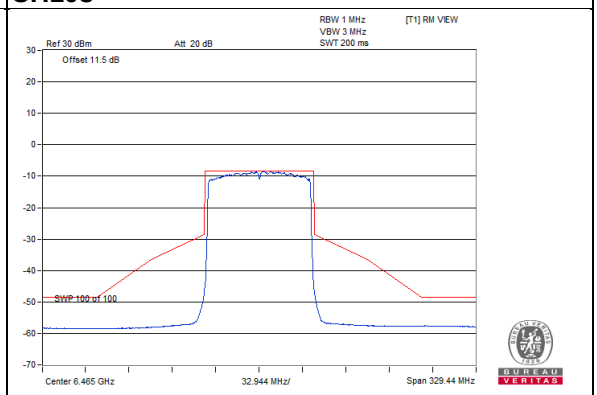
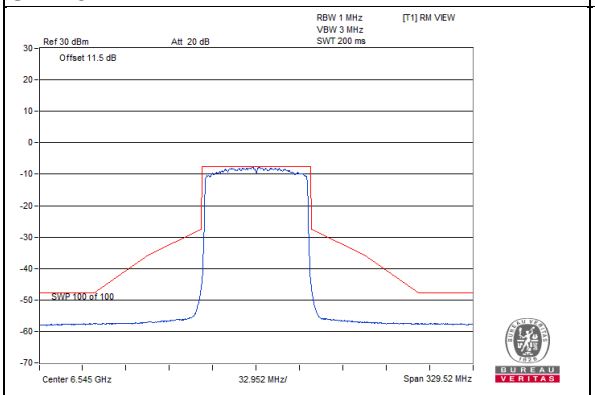
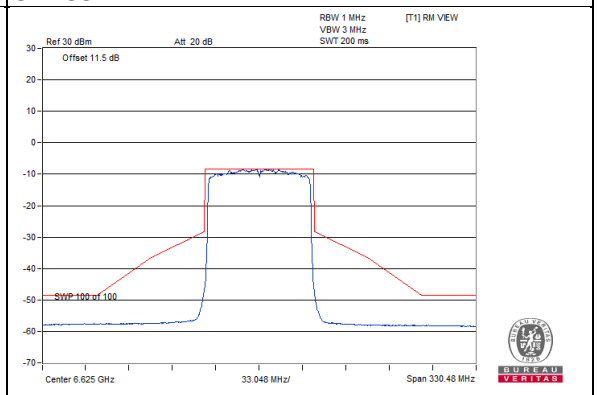
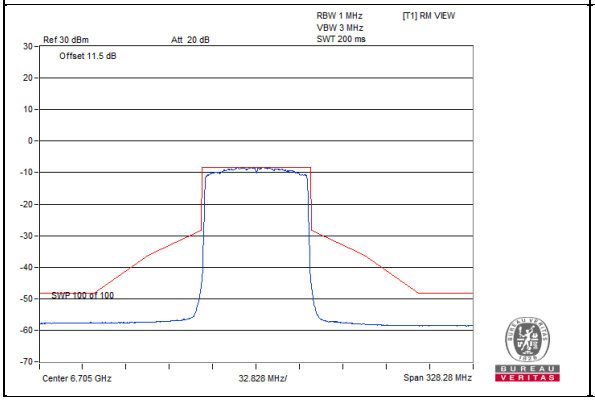
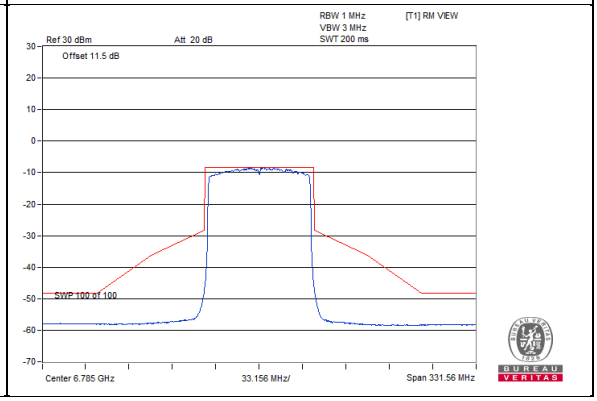


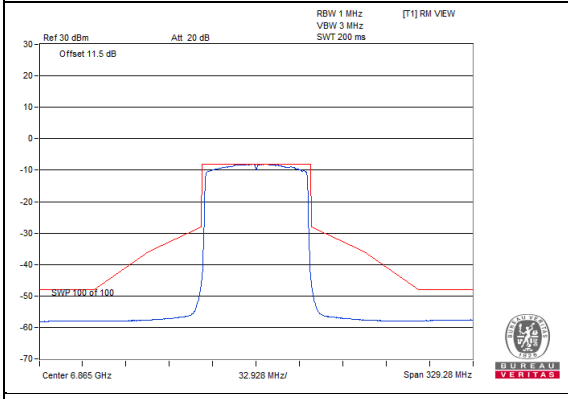
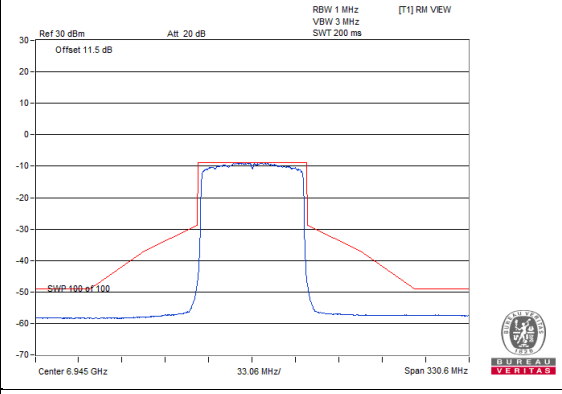
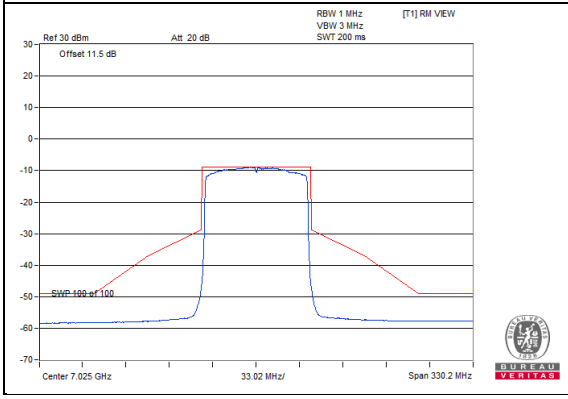
CH155



Spectrum Plot of Worst Value	
Chain 3	
CH179	**CH187**
	
CH211	**CH227**
	

802.11ax (HE80)

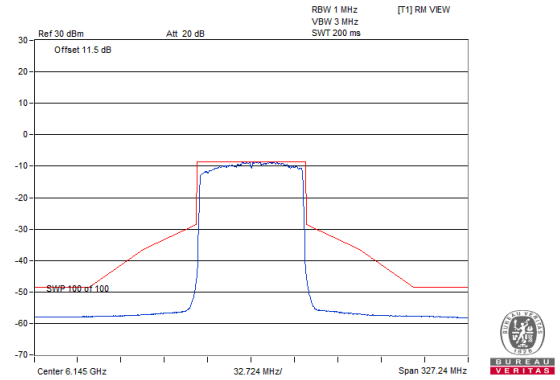
Spectrum Plot of Worst Value	
Chain 0	
CH39	**CH55**
	
CH87	**CH103**
	
CH119	**CH135**
	
CH151	**CH167**
	

Spectrum Plot of Worst Value	
Chain 0	
CH183	**CH199**
	
CH215	
	

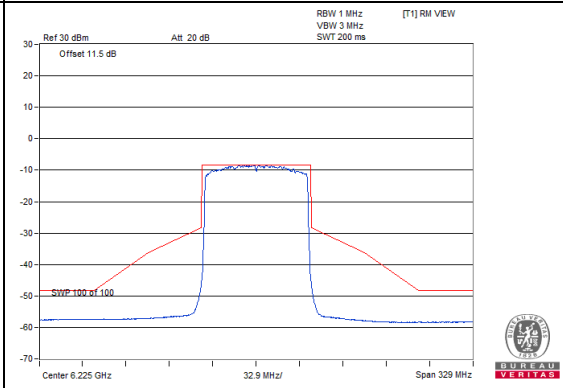
Spectrum Plot of Worst Value

Chain 1

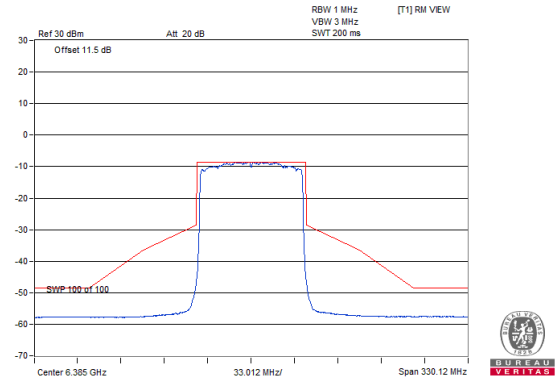
CH39



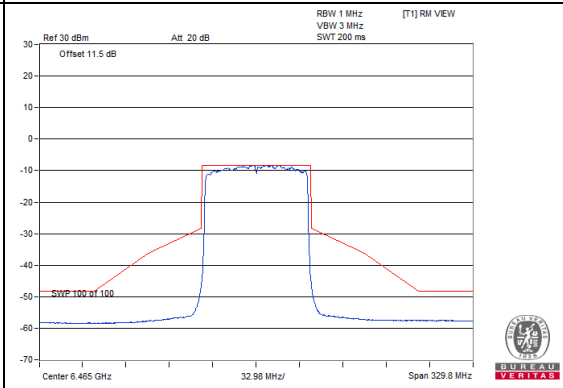
CH55



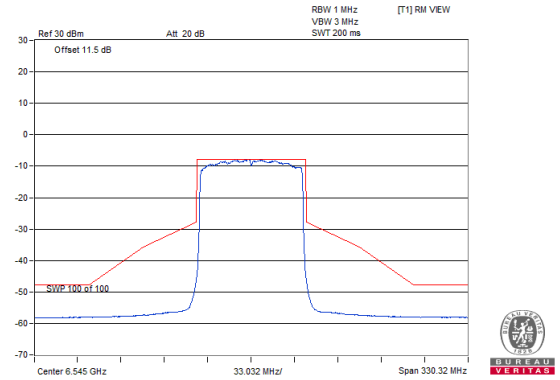
CH87



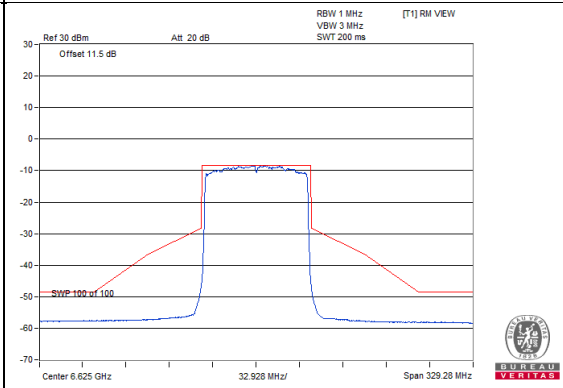
CH103



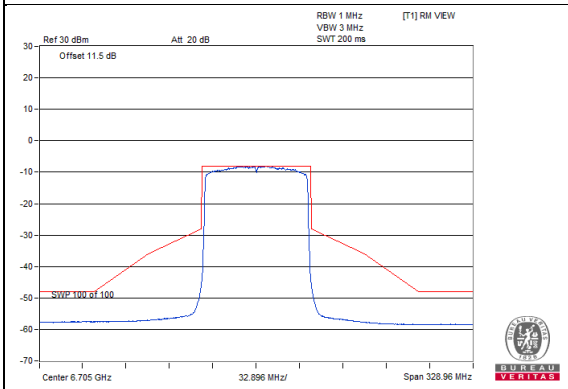
CH119



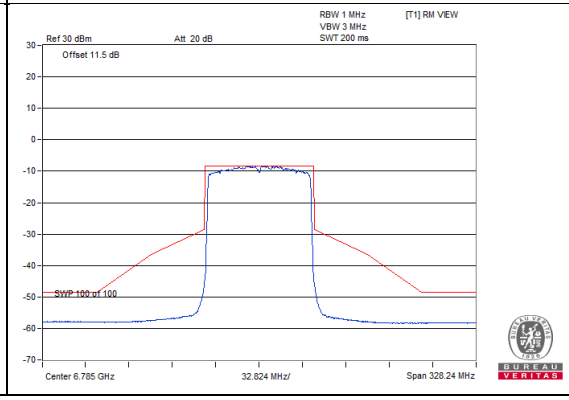
CH135

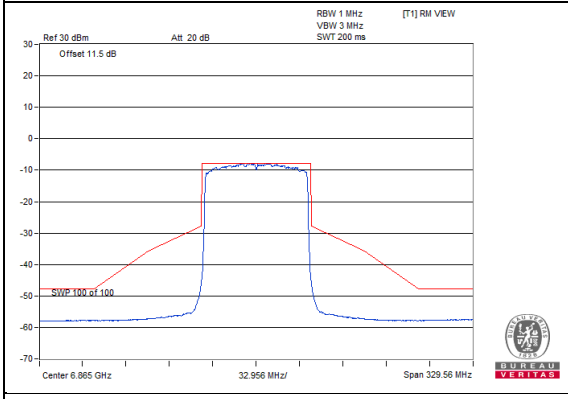
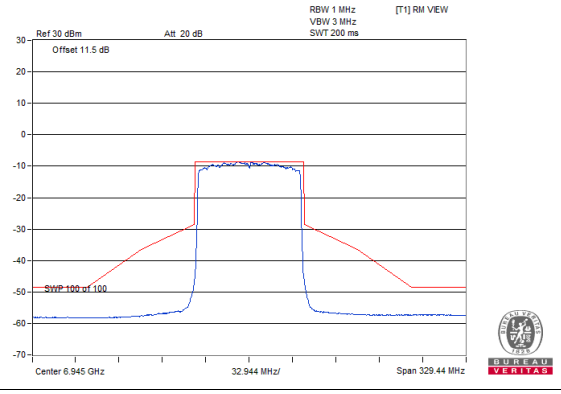
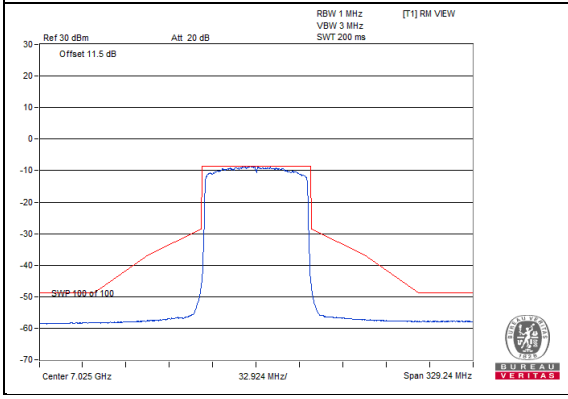


CH151



CH167

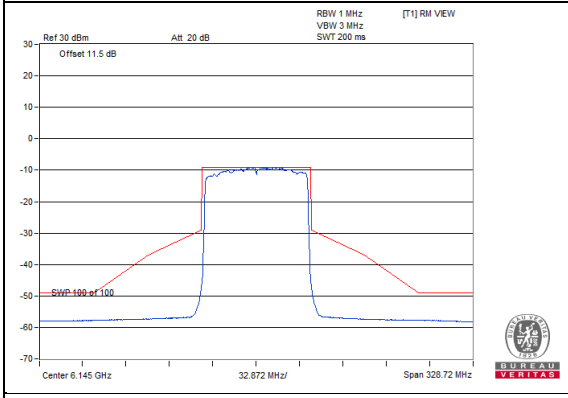


Spectrum Plot of Worst Value	
Chain 1	
CH183	**CH199**
	
CH215	
	

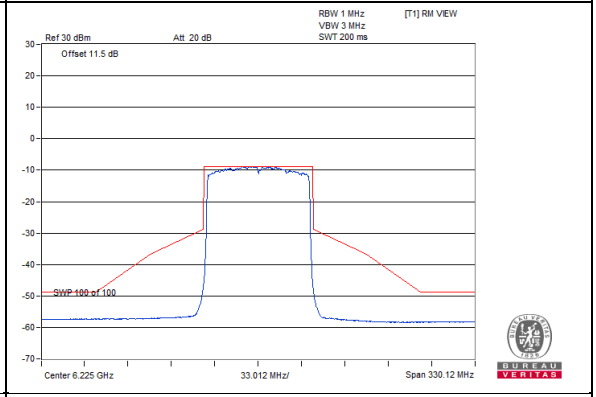
Spectrum Plot of Worst Value

Chain 2

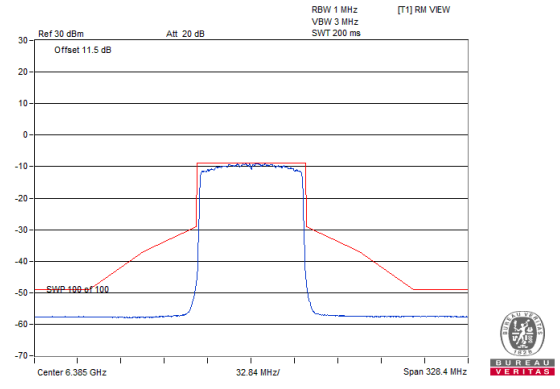
CH39



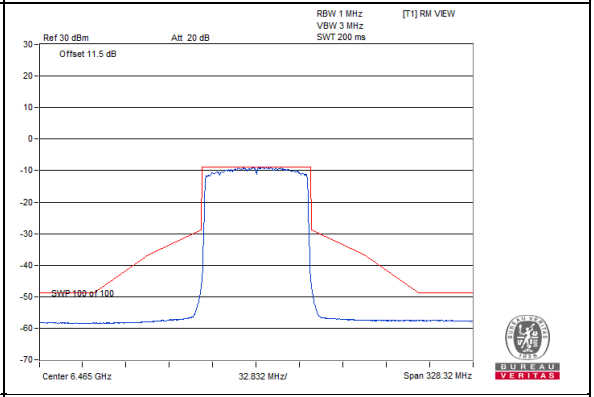
CH55



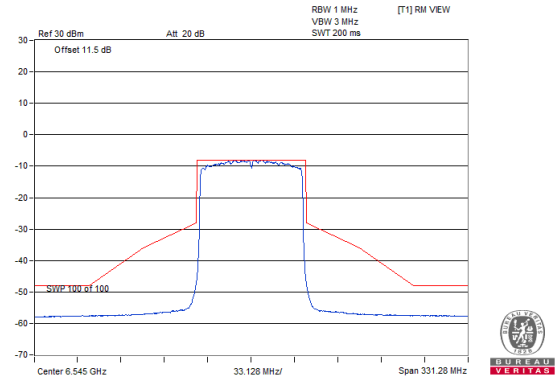
CH87



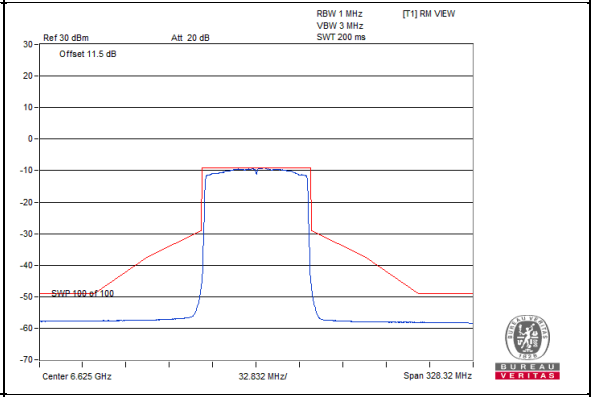
CH103



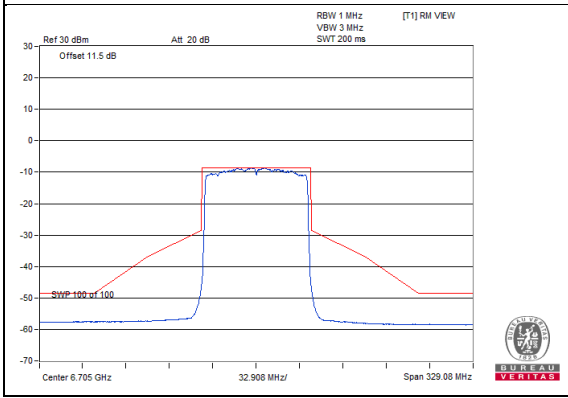
CH119



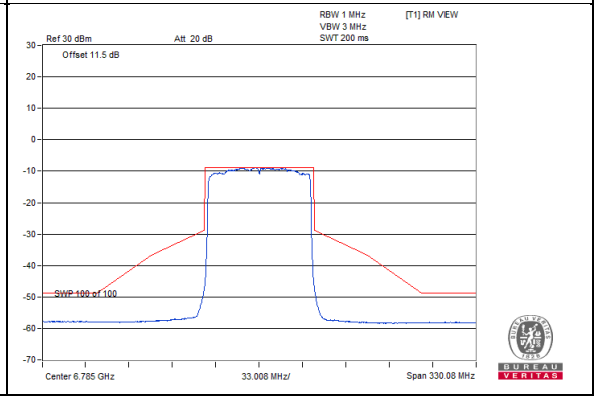
CH135

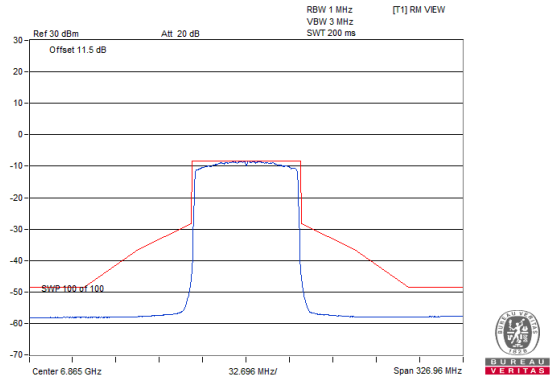
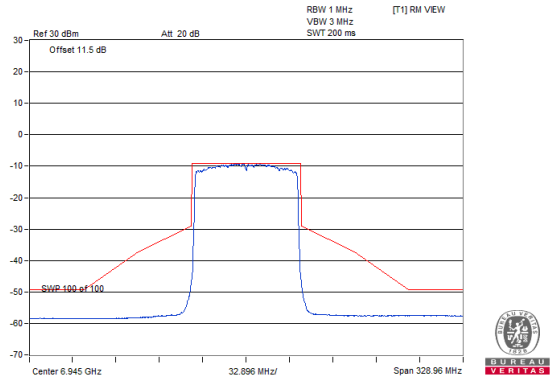
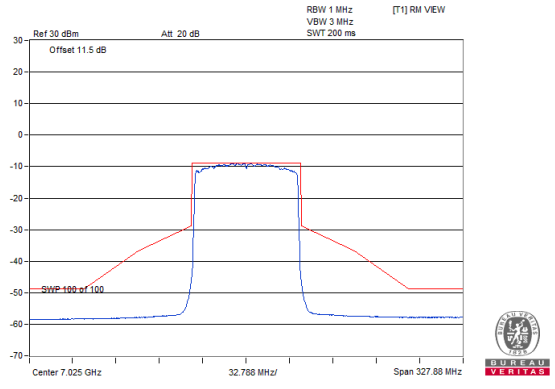


CH151



CH167

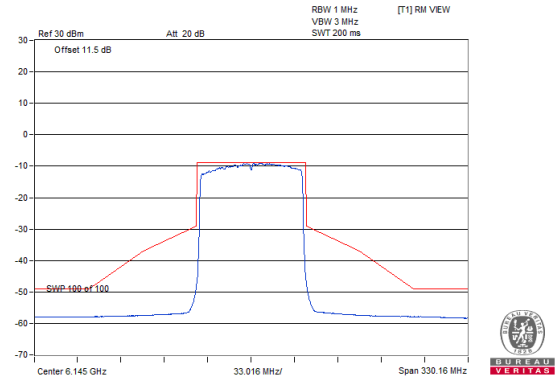


Spectrum Plot of Worst Value	
Chain 2	
CH183	**CH199**
	
CH215	
	

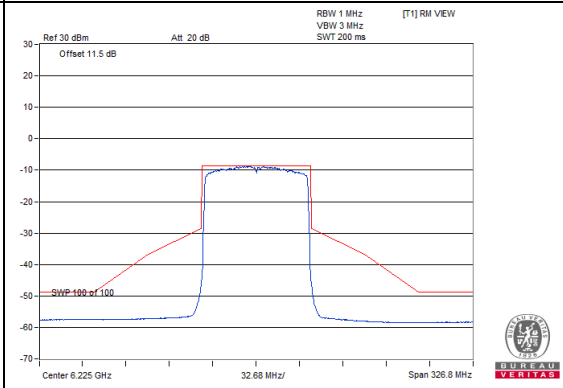
Spectrum Plot of Worst Value

Chain 3

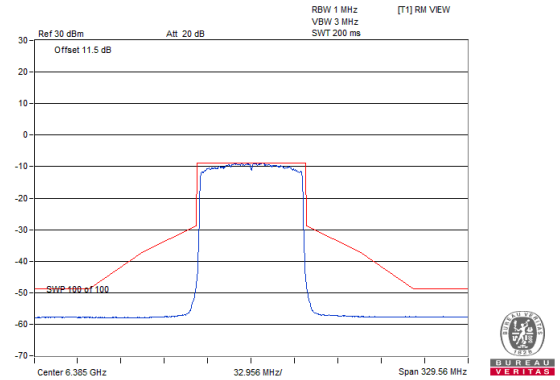
CH39



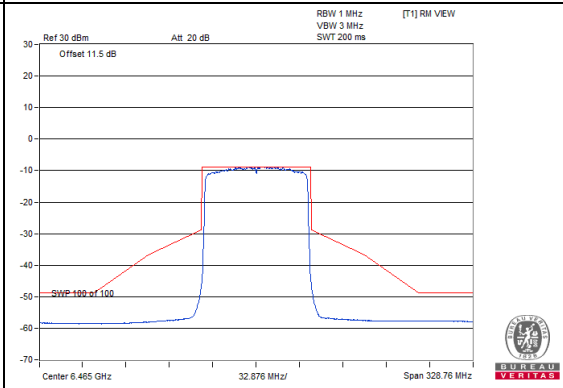
CH55



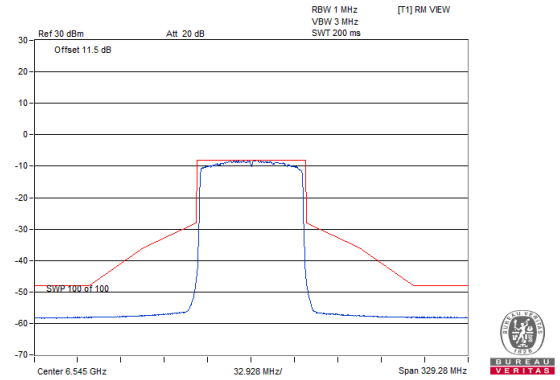
CH87



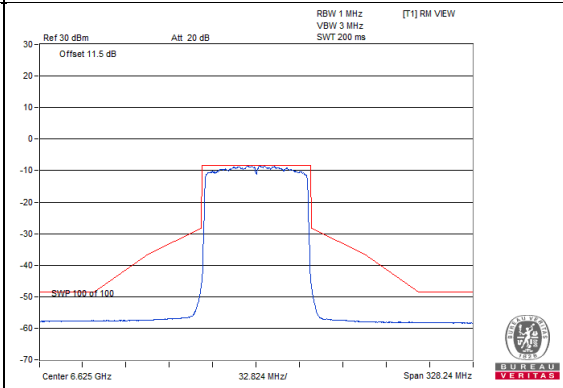
CH103



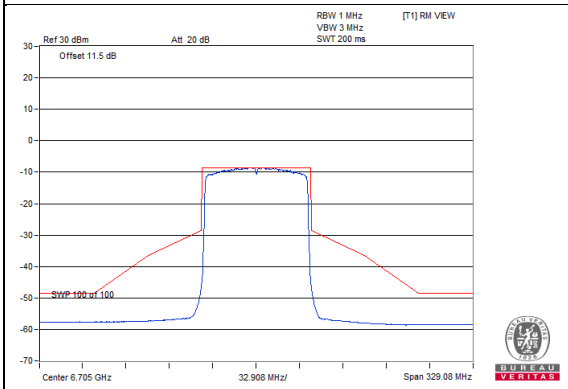
CH119



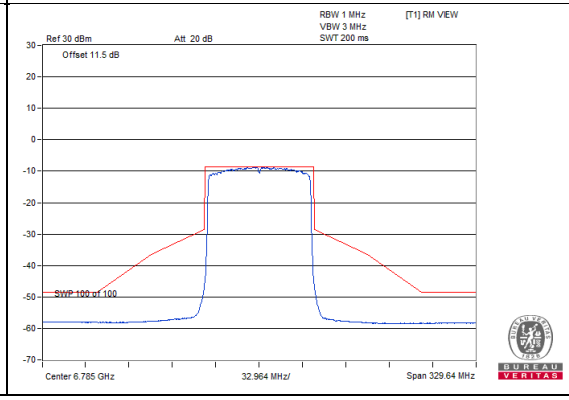
CH135

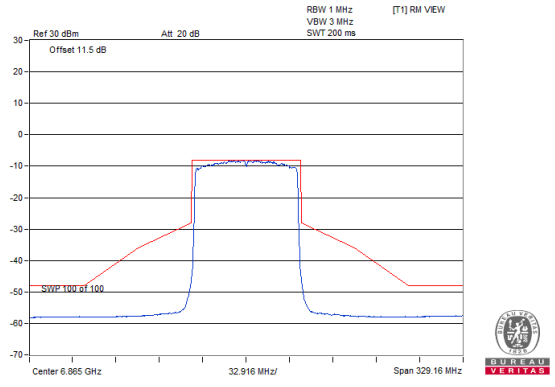
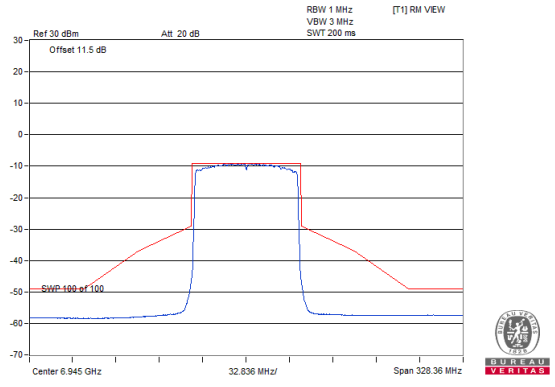
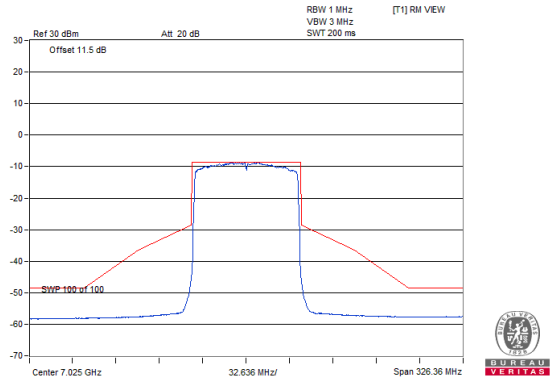


CH151

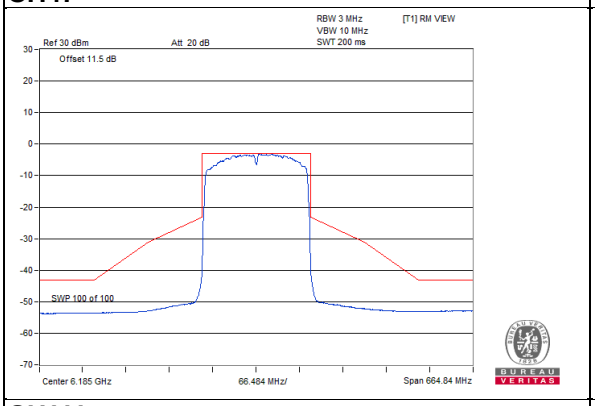
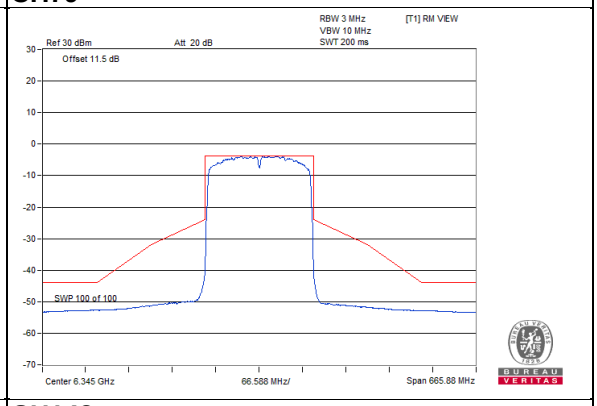
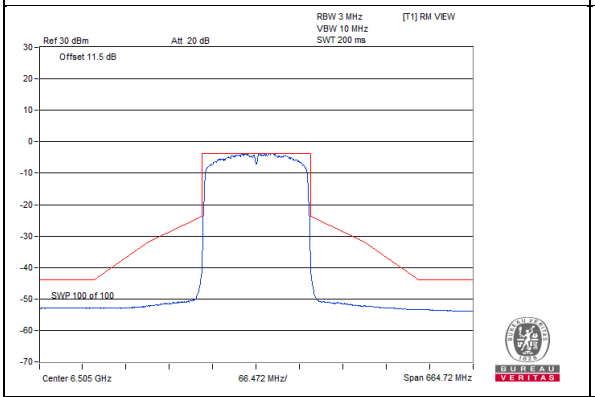
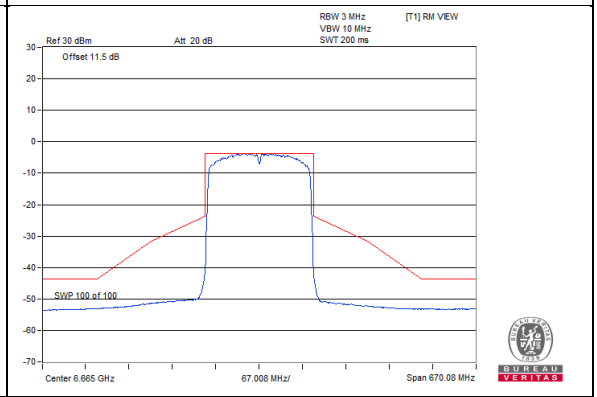
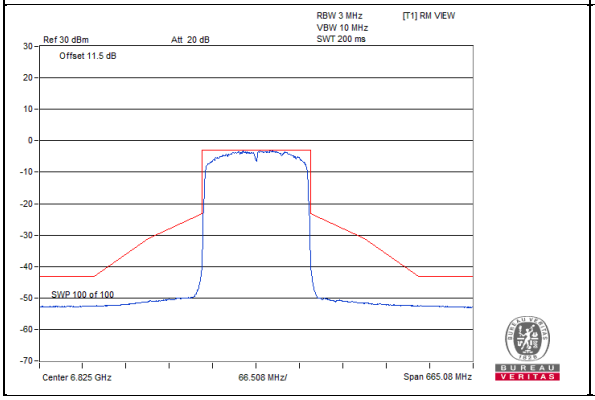
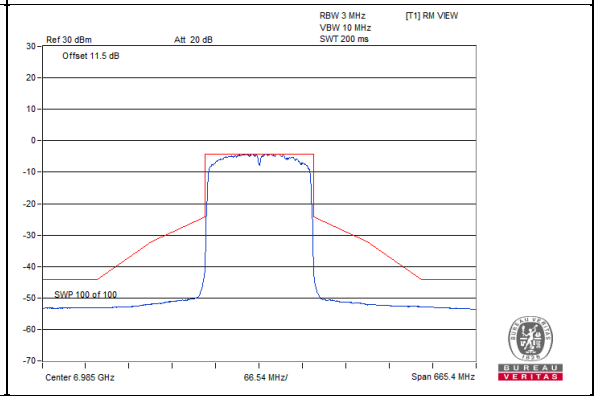


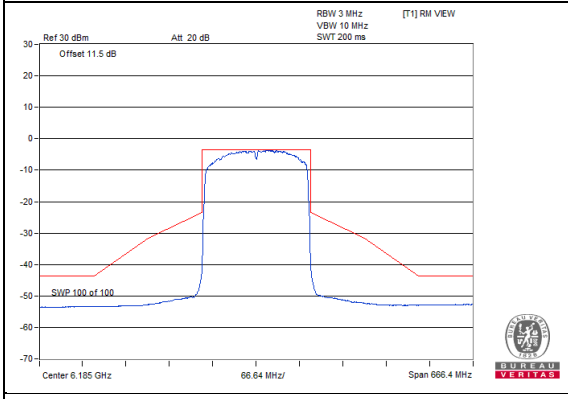
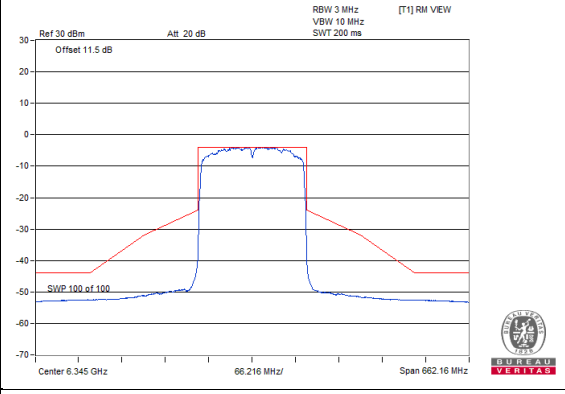
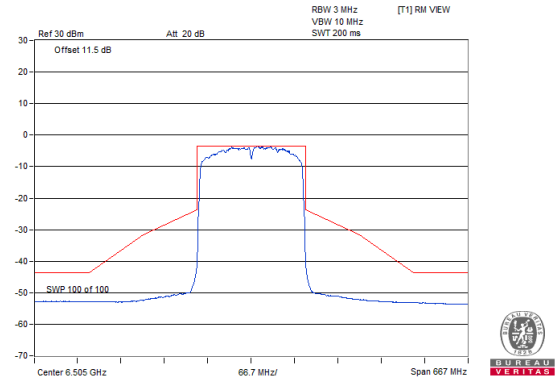
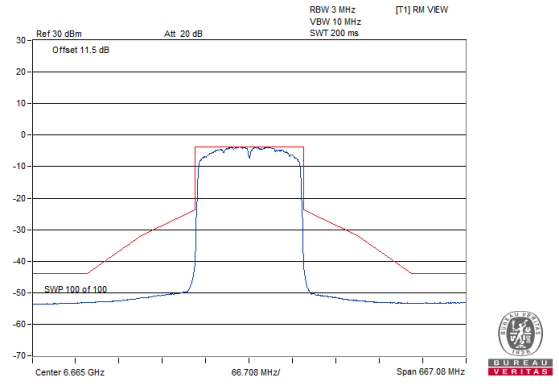
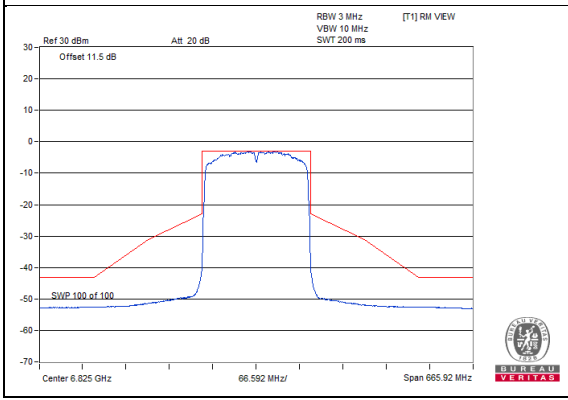
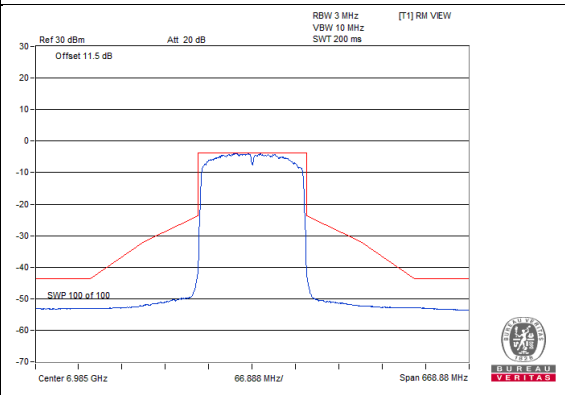
CH167

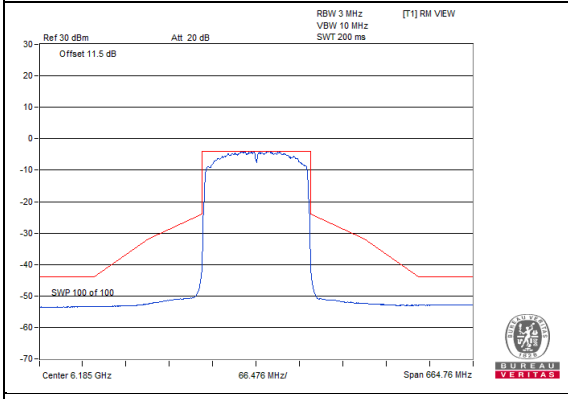
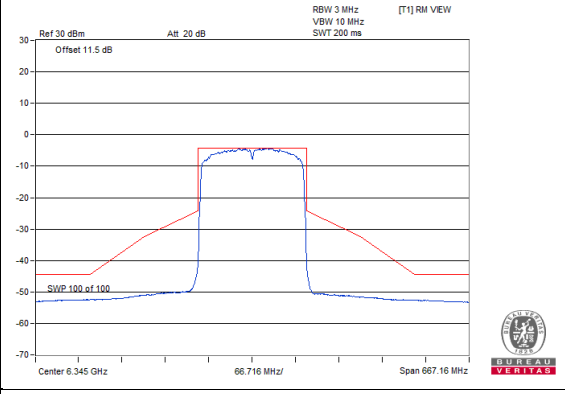
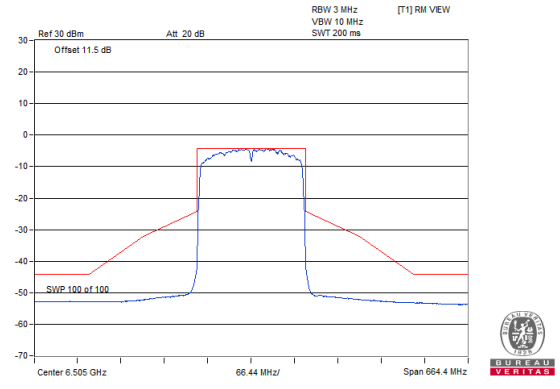
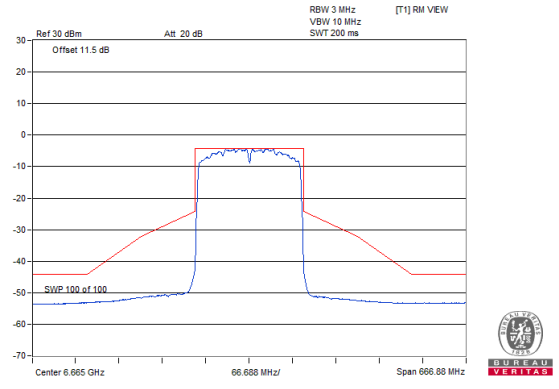
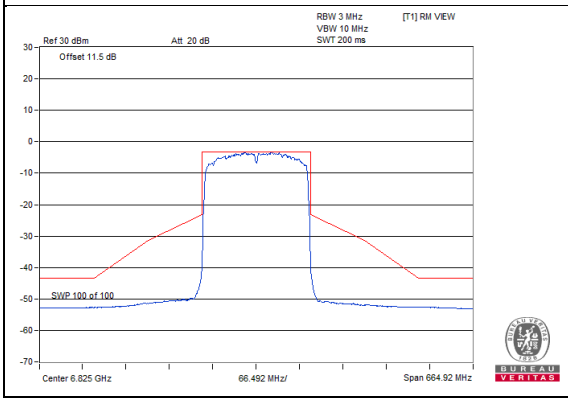
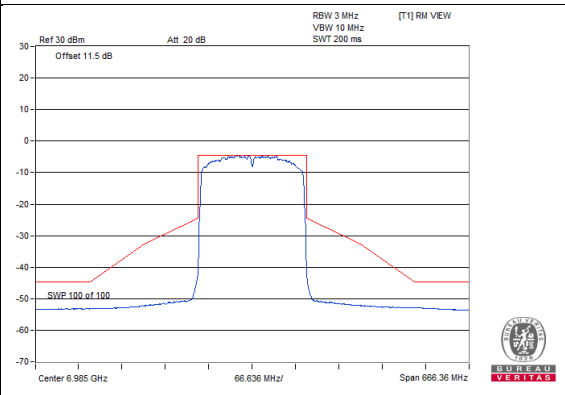


Spectrum Plot of Worst Value	
Chain 3	
CH183	**CH199**
	
CH215	
	

802.11ax (HE160)

Spectrum Plot of Worst Value	
Chain 0	
CH47	**CH79**
	
CH111	**CH143**
	
CH175	**CH207**
	

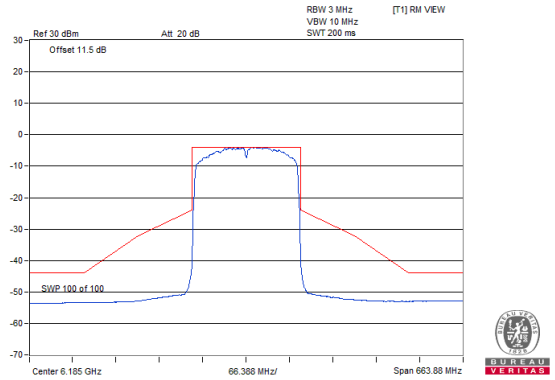
Spectrum Plot of Worst Value	
Chain 1	
CH47	**CH79**
	
CH111	**CH143**
	
CH175	**CH207**
	

Spectrum Plot of Worst Value	
Chain 2	
CH47	**CH79**
	
CH111	**CH143**
	
CH175	**CH207**
	

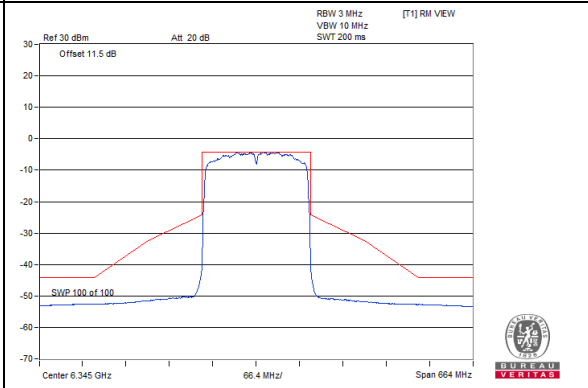
Spectrum Plot of Worst Value

Chain 3

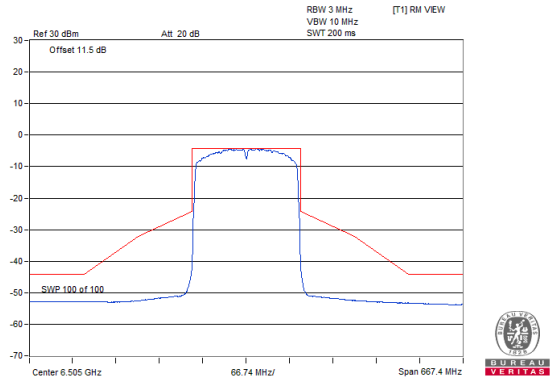
CH47



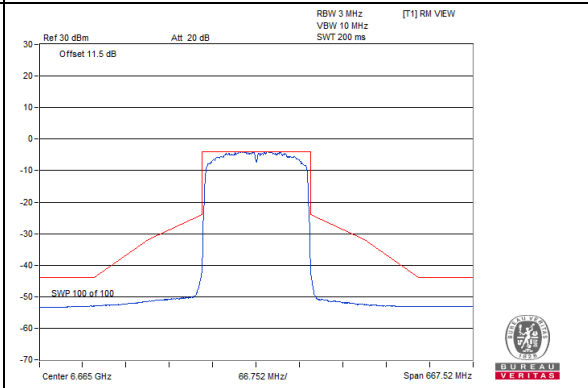
CH79



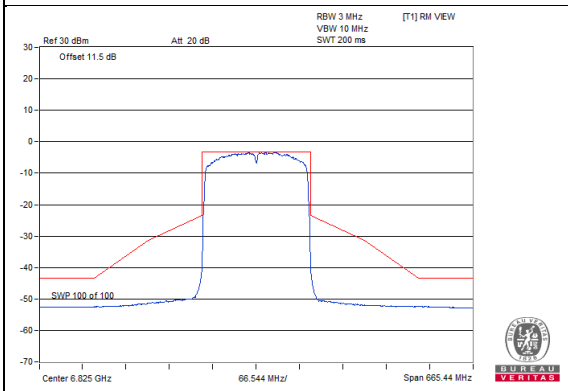
CH111



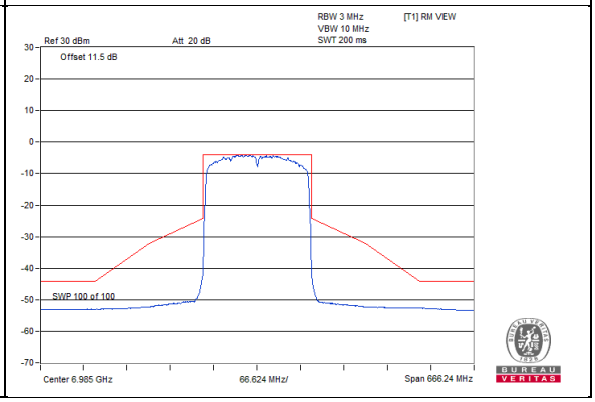
CH143



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: Dec. 13, 2020

4.3.3 Test Procedure

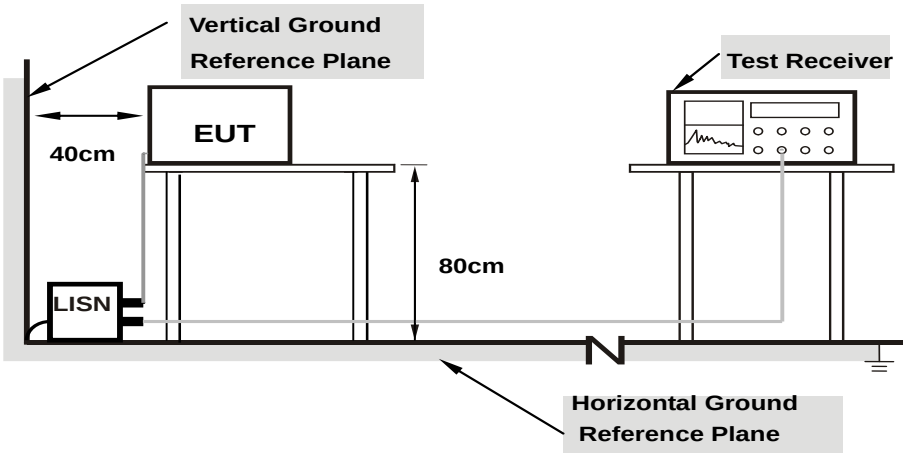
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. 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.

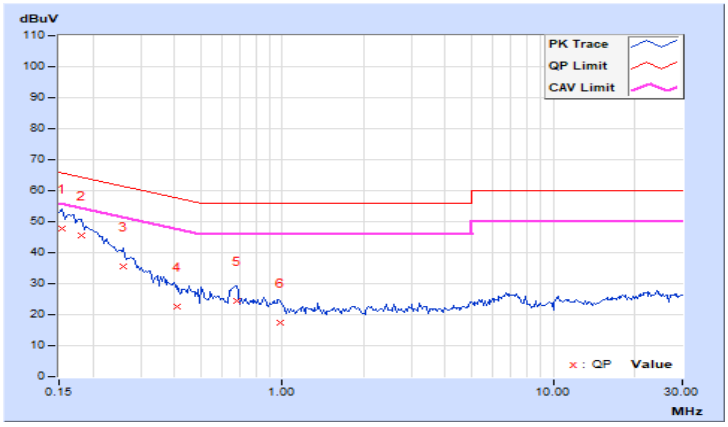
4.3.6 Test Results

RF Mode	TX 802.11ax (HE160)	Channel	CH 175：6825 MHz
Frequency Range	30kHz ~ 150kHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 200Hz

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	0.15415	9.96	37.77	19.15	47.73	29.11	65.77	55.77	-18.04	-26.66
2	0.18149	9.98	35.43	18.07	45.41	28.05	64.42	54.42	-19.01	-26.37
3	0.25959	10.00	25.73	11.52	35.73	21.52	61.44	51.44	-25.71	-29.92
4	0.40756	10.02	12.71	0.64	22.73	10.66	57.70	47.70	-34.97	-37.04
5	0.67698	10.04	14.44	8.07	24.48	18.11	56.00	46.00	-31.52	-27.89
6	0.97842	10.06	7.26	1.88	17.32	11.94	56.00	46.00	-38.68	-34.06

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

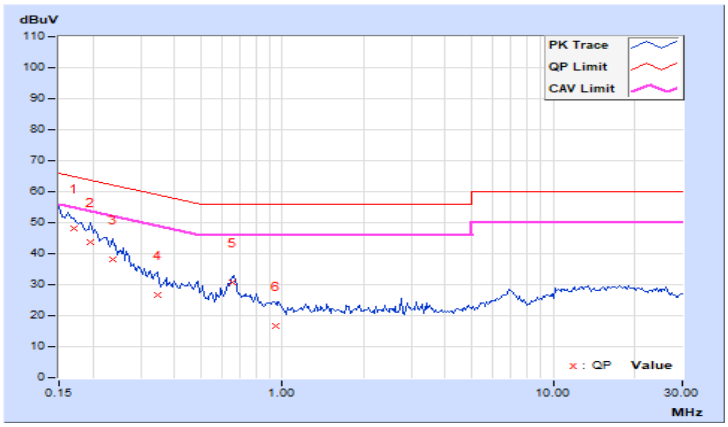


RF Mode	TX 802.11ax (HE160)	Channel	CH 175：6825 MHz
Frequency Range	30kHz ~ 150kHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 200Hz

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	**0.17045**	**9.96**	**38.21**	**21.74**	**48.17**	**31.70**	**64.94**	**54.94**	**-16.77**	**-23.24**
2	0.19693	9.98	33.87	17.34	43.85	27.32	63.74	53.74	-19.89	-26.42
3	0.23613	9.99	28.26	14.59	38.25	24.58	62.23	52.23	-23.98	-27.65
4	0.34547	10.00	16.55	6.09	26.55	16.09	59.07	49.07	-32.52	-32.98
5	0.65791	10.04	20.67	15.23	30.71	25.27	56.00	46.00	-25.29	-20.73
6	0.94312	10.06	6.49	1.53	16.55	11.59	56.00	46.00	-39.45	-34.41

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 modes	EIRP 30 dBm

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

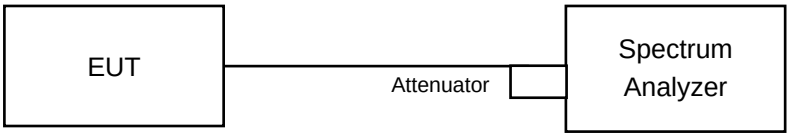
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

4.4.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

For channel straddling 6525MHz & channel straddling 6875MHz:



For other channels:

4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

For channel straddling 6525MHz & 6875MHz:

Method SA-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW =1MHz.
3. Set the VBW ≥ 3 x RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging mode
8. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
9. Duty factor need added to measured value (duty cycle < 98 percent).

For other channels:

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

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

CDD Mode:

Power Output:

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3							
33	6115	4.66	4.54	4.85	4.68	11.761	10.7	5.3	39.81	16.00	30	Pass
65	6275	4.61	4.62	4.67	4.55	11.57	10.63	5.3	39.174	15.93	30	Pass
93	6415	4.33	4.78	4.65	4.78	11.64	10.66	5.3	39.446	15.96	30	Pass
97	6435	4.96	5.35	5.23	5.18	13.191	11.2	5.1	42.658	16.30	30	Pass
105	6475	5.36	5.61	5.47	5.41	14.074	11.48	5.1	45.499	16.58	30	Pass
113	6515	5.18	5.20	5.07	5.18	13.117	11.18	5.1	42.462	16.28	30	Pass
117	6535	4.97	5.02	4.92	5.07	12.636	11.02	5.4	43.853	16.42	30	Pass
153	6715	5.48	5.61	5.46	5.48	14.218	11.53	5.4	49.317	16.93	30	Pass
181	6855	4.89	4.99	4.74	4.71	12.175	10.85	5.4	42.17	16.25	30	Pass
*185 (U-NII-7 Band)	6875	-0.58	-0.23	-0.42	-0.63	3.8045	5.8	5.4	13.183	11.20	30	Pass
*185 (U-NII-8 Band)	6875	-0.51	0.26	-0.07	-0.50	4.0478	6.07	5.9	15.74	11.97	30	Pass
213	7015	4.82	4.90	4.86	5.07	12.4	10.93	5.9	48.195	16.83	30	Pass
229	7095	1.35	0.77	1.17	1.02	5.132	7.1	5.9	19.953	13.00	30	Pass
233	7115	4.66	4.54	4.85	4.68	11.761	10.7	5.3	39.81	16.00	30	Pass

Note: *Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3							
35	6125	8.31	8.22	8.12	8.03	26.253	14.19	5.3	88.92	19.49	30	Pass
67	6285	8.34	8.02	7.88	7.42	24.82	13.95	5.3	84.14	19.25	30	Pass
91	6405	7.79	8.05	7.49	7.53	23.667	13.74	5.3	80.168	19.04	30	Pass
99	6445	8.23	8.65	8.12	7.85	26.563	14.24	5.1	85.901	19.34	30	Pass
107	6485	8.48	8.87	8.31	8.06	27.93	14.46	5.1	90.365	19.56	30	Pass
*115 (U-NII-6 Band)	6525	3.26	3.48	2.50	2.72	8.43	9.26	5.1	27.29	14.36	30	Pass
*115 (U-NII-7 Band)	6525	3.44	3.35	2.26	3.00	8.486	9.29	5.4	29.444	14.69	30	Pass
123	6565	8.82	8.69	8.26	8.42	28.666	14.57	5.4	99.312	19.97	30	Pass
155	6725	8.95	8.55	8.21	8.19	28.228	14.51	5.4	97.949	19.91	30	Pass
179	6845	8.26	7.77	7.65	7.58	24.232	13.84	5.4	83.946	19.24	30	Pass
*187 (U-NII-7 Band)	6885	-1.45	-1.63	-0.99	-1.30	3.1003	4.91	5.4	10.74	10.31	30	Pass
*187 (U-NII-8 Band)	6885	4.74	4.57	4.54	4.30	11.996	10.79	5.9	46.666	16.69	30	Pass
211	7005	7.90	7.71	7.62	7.43	23.382	13.69	5.9	90.991	19.59	30	Pass
227	7085	7.97	7.85	7.45	7.92	24.115	13.82	5.9	93.76	19.72	30	Pass

Note: *Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3							
39	6145	10.35	10.19	10.01	10.04	41.402	16.17	5.3	140.28	21.47	30	Pass
55	6225	10.78	10.55	10.11	10.12	43.854	16.42	5.3	148.594	21.72	30	Pass
87	6385	10.03	10.63	10.06	10.09	41.979	16.23	5.3	142.233	21.53	30	Pass
103	6465	10.87	11.32	10.66	10.75	49.296	16.93	5.1	159.588	22.03	30	Pass
*119 (U-NII-6 Band)	6545	2.93	2.55	2.54	2.35	7.786	8.91	5.1	25.177	14.01	30	Pass
*119 (U-NII-7 Band)	6545	8.52	8.32	7.92	8.38	28.88	14.61	5.4	100.231	20.01	30	Pass
135	6625	10.89	10.77	10.43	10.72	47.058	16.73	5.4	163.305	22.13	30	Pass
151	6705	11.48	11.41	10.92	11.03	52.932	17.24	5.4	183.654	22.64	30	Pass
167	6785	10.77	10.96	10.70	10.62	47.697	16.78	5.4	165.196	22.18	30	Pass
*183 (U-NII-7 Band)	6865	7.95	7.32	7.01	7.31	23.586	13.73	5.4	81.846	19.13	30	Pass
*183 (U-NII-8 Band)	6865	5.57	4.97	4.37	4.71	13.313	11.24	5.4	46.132	16.64	30	Pass
199	6945	10.10	10.18	9.57	9.92	39.531	15.97	5.9	153.815	21.87	30	Pass
215	7025	10.50	10.41	10.22	10.51	43.976	16.43	5.9	171.002	22.33	30	Pass

Note: *Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

802.11ax (HE160)

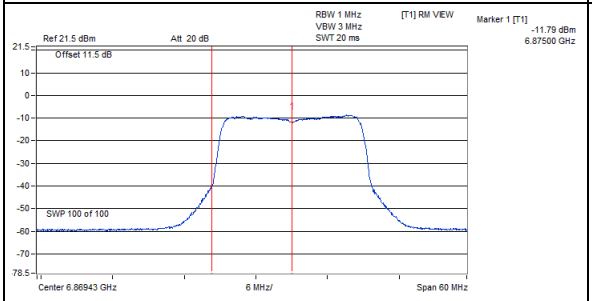
Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3							
47	6185	13.86	13.34	12.85	13.19	86.02	19.35	5.3	291.74	24.65	30	Pass
79	6345	13.14	13.26	12.81	12.77	79.812	19.02	5.3	270.396	24.32	30	Pass
*111 (U-NII-6 Band)	6505	9.77	9.30	8.75	9.42	36.751	15.65	5.1	118.85	20.75	30	Pass
*111 (U-NII-7 Band)	6505	7.51	7.19	6.66	6.04	20.954	13.21	5.1	67.764	18.31	30	Pass
143	6665	13.86	13.77	13.08	13.57	91.22	19.6	5.4	316.228	25.00	30	Pass
*175 (U-NII-7 Band)	6825	11.68	11.58	11.31	11.23	59.997	17.78	5.4	207.97	23.18	30	Pass
*175 (U-NII-8 Band)	6825	4.04	2.98	3.49	1.95	8.931	9.51	5.4	30.974	14.91	30	Pass
207	6985	13.18	13.24	12.61	13.14	80.729	19.07	5.9	314.051	24.97	30	Pass

Note: *Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

For channel straddling 6525MHz & 6875MHz of Power

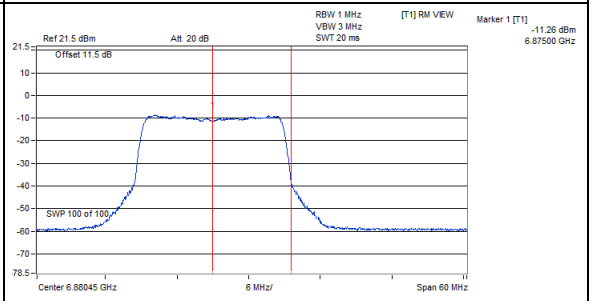
Spectrum Plot Value of Power

802.11ax (HE20)_Chain 0 / CH185 (U-NII-7 Band)



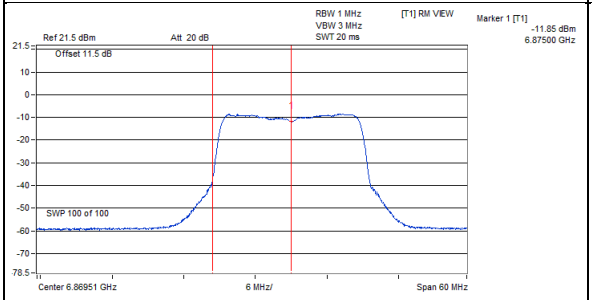
TX Channel Bandwidth 11.13 MHz Power -0.58 dBm

802.11ax (HE20)_Chain 0 / CH185 (U-NII-8 Band)



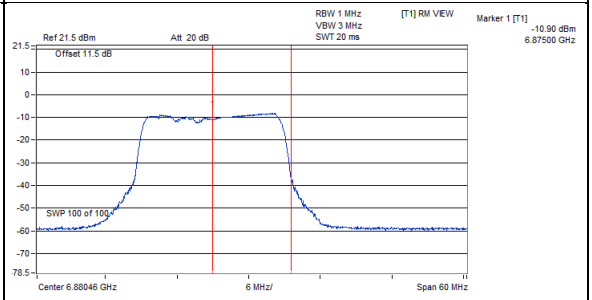
TX Channel Bandwidth 10.9 MHz Power -0.51 dBm

802.11ax (HE20)_Chain 1 / CH185 (U-NII-7 Band)



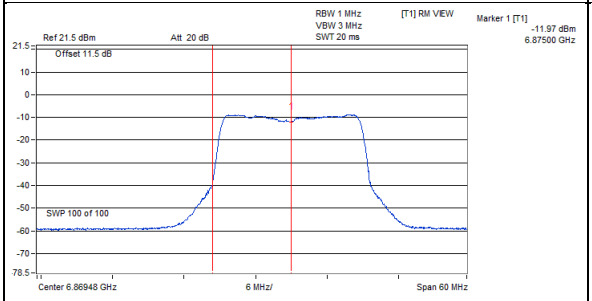
TX Channel Bandwidth 10.98 MHz Power -0.23 dBm

802.11ax (HE20)_Chain 1 / CH185 (U-NII-8 Band)



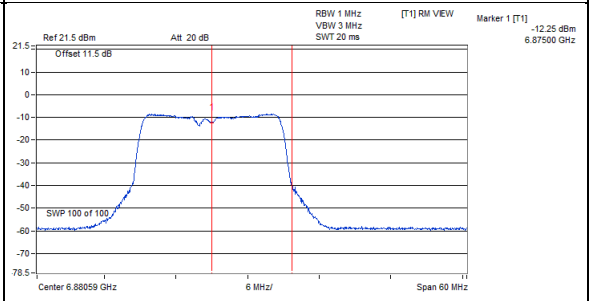
TX Channel Bandwidth 10.93 MHz Power 0.26 dBm

802.11ax (HE20)_Chain 2 / CH185 (U-NII-7 Band)



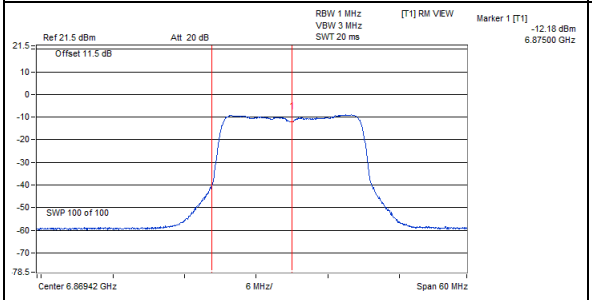
TX Channel Bandwidth 11.03 MHz Power -0.42 dBm

802.11ax (HE20)_Chain 2 / CH185 (U-NII-8 Band)



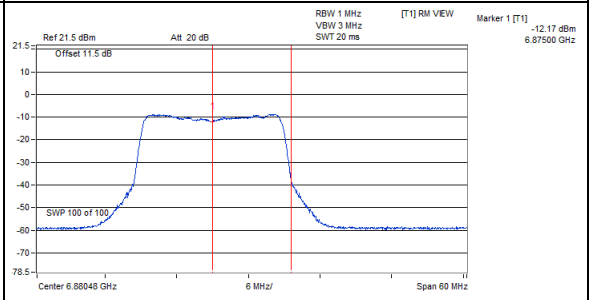
TX Channel Bandwidth 11.18 MHz Power -0.07 dBm

802.11ax (HE20)_Chain 3 / CH185 (U-NII-7 Band)



TX Channel Bandwidth 11.16 MHz Power -0.63 dBm

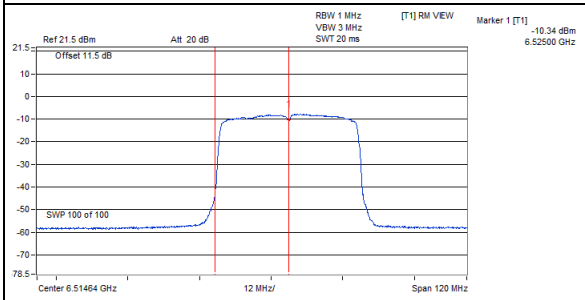
802.11ax (HE20)_Chain 3 / CH185 (U-NII-8 Band)



TX Channel Bandwidth 10.96 MHz Power -0.5 dBm

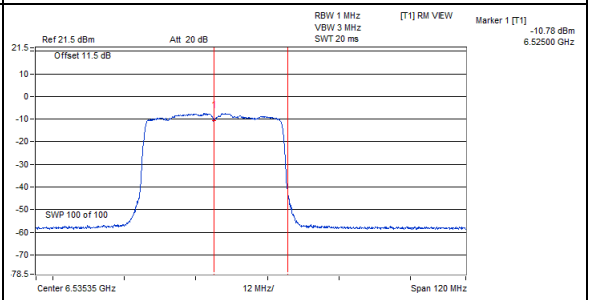
Spectrum Plot Value of Power

802.11ax (HE40)_Chain 0 / CH115 (U-NII-6 Band)



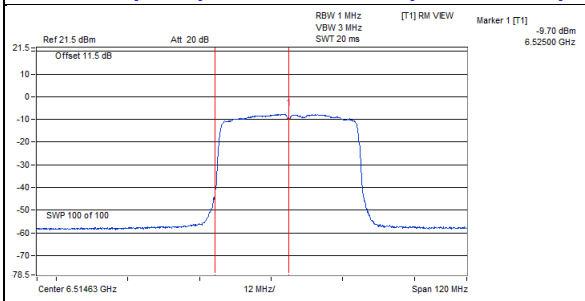
TX Channel Bandwidth 20.72 MHz Power 3.26 dBm

802.11ax (HE40)_Chain 0 / CH115 (U-NII-7 Band)



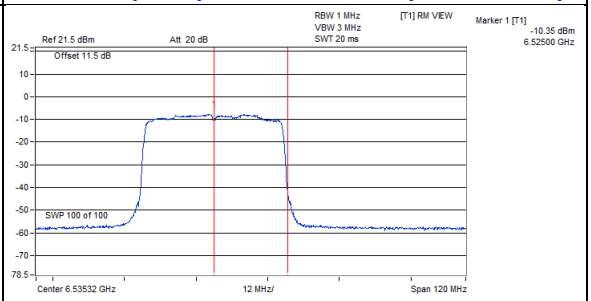
TX Channel Bandwidth 20.7 MHz Power 3.44 dBm

802.11ax (HE40)_Chain 1 / CH115 (U-NII-6 Band)



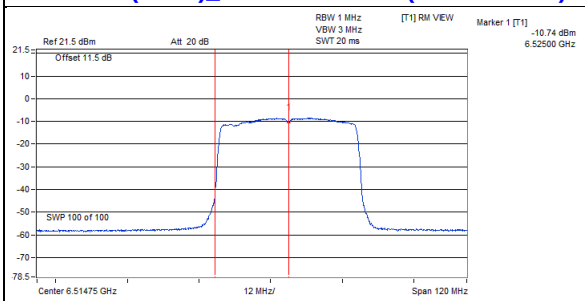
TX Channel Bandwidth 20.74 MHz Power 3.48 dBm

802.11ax (HE40)_Chain 1 / CH115 (U-NII-7 Band)



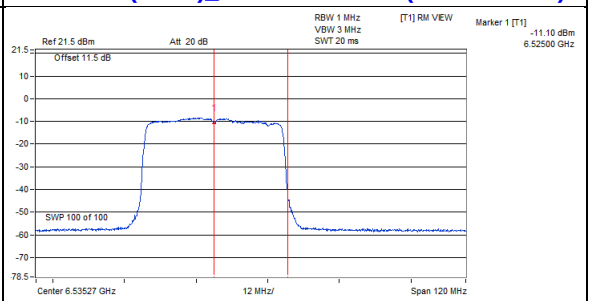
TX Channel Bandwidth 20.65 MHz Power 3.35 dBm

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



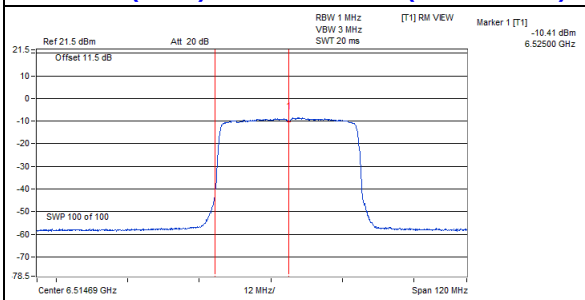
TX Channel Bandwidth 20.5 MHz Power 2.5 dBm

802.11ax (HE40)_Chain 2 / CH115 (U-NII-7 Band)



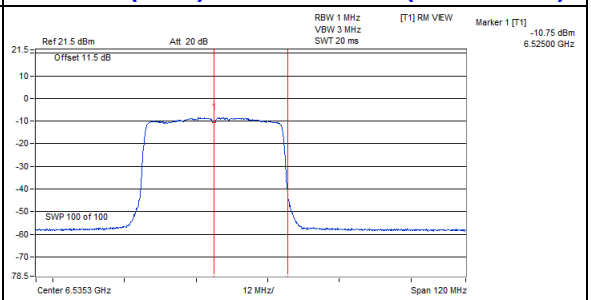
TX Channel Bandwidth 20.55 MHz Power 2.26 dBm

802.11ax (HE40)_Chain 3 / CH115 (U-NII-6 Band)



TX Channel Bandwidth 20.61 MHz Power 2.72 dBm

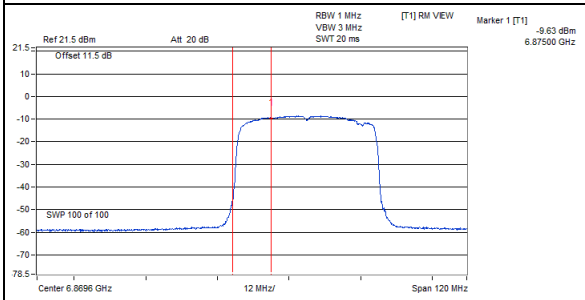
802.11ax (HE40)_Chain 3 / CH115 (U-NII-7 Band)



TX Channel Bandwidth 20.61 MHz Power 3 dBm

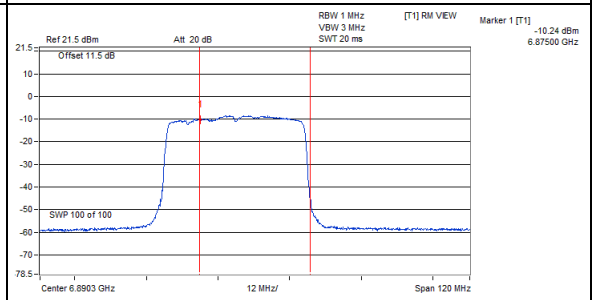
Spectrum Plot Value of Power

802.11ax (HE40)_Chain 0 / CH187 (U-NII-7 Band)



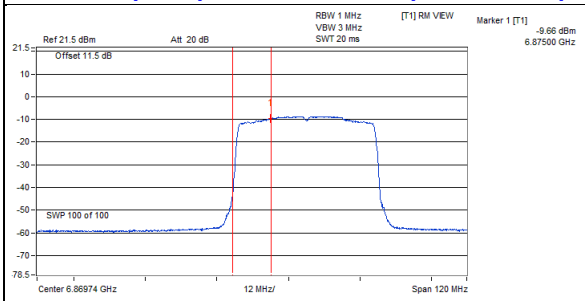
TX Channel Bandwidth 10.8 MHz Power -1.45 dBm

802.11ax (HE40)_Chain 0 / CH187 (U-NII-8 Band)



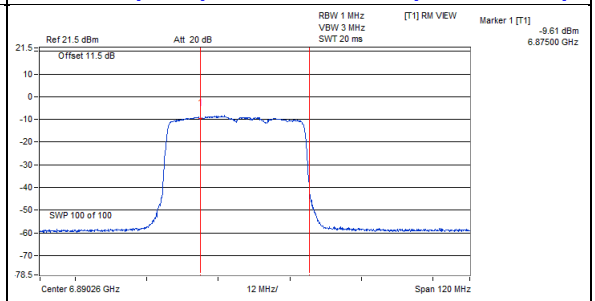
TX Channel Bandwidth 30.61 MHz Power 4.74 dBm

802.11ax (HE40)_Chain 1 / CH187 (U-NII-7 Band)



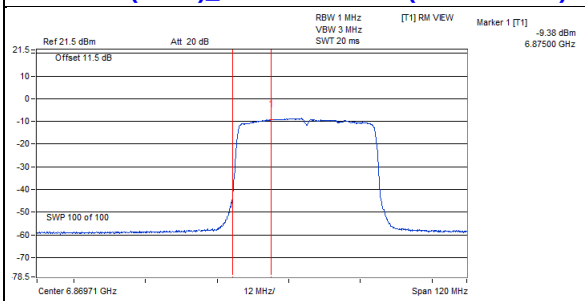
TX Channel Bandwidth 10.52 MHz Power -1.63 dBm

802.11ax (HE40)_Chain 1 / CH187 (U-NII-8 Band)



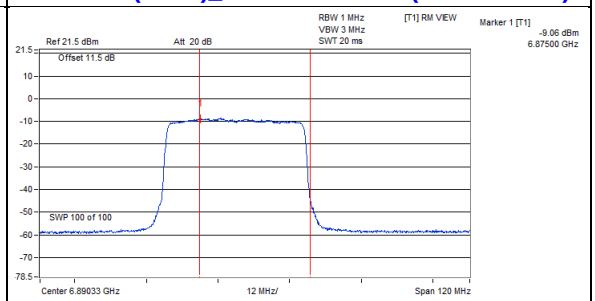
TX Channel Bandwidth 30.52 MHz Power 4.57 dBm

802.11ax (HE40)_Chain 2 / CH187 (U-NII-7 Band)



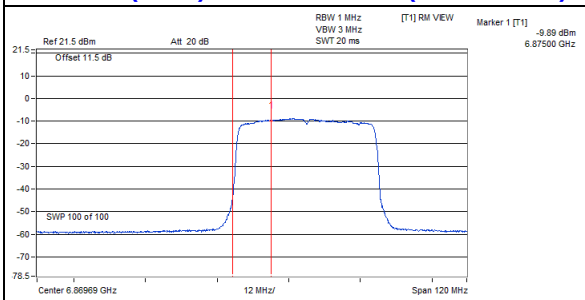
TX Channel Bandwidth 10.57 MHz Power -0.99 dBm

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



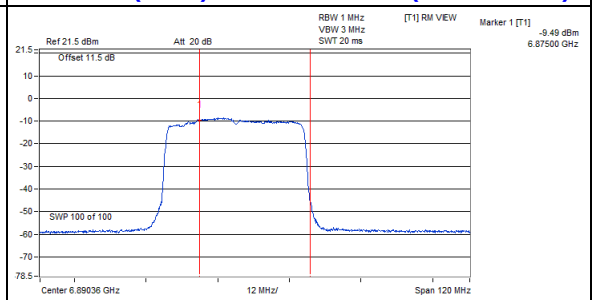
TX Channel Bandwidth 30.66 MHz Power 4.54 dBm

802.11ax (HE40)_Chain 3 / CH187 (U-NII-7 Band)



TX Channel Bandwidth 10.62 MHz Power -1.3 dBm

802.11ax (HE40)_Chain 3 / CH187 (U-NII-8 Band)



TX Channel Bandwidth 30.72 MHz Power 4.3 dBm