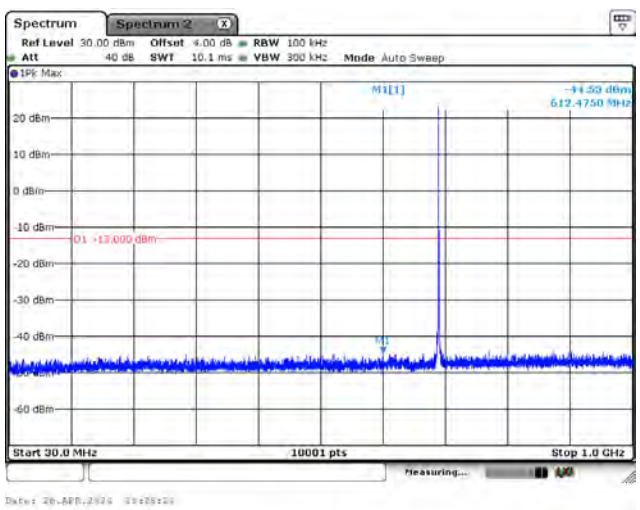
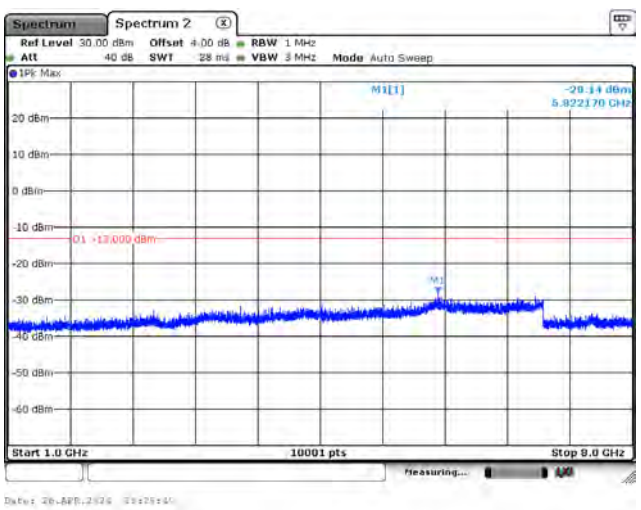
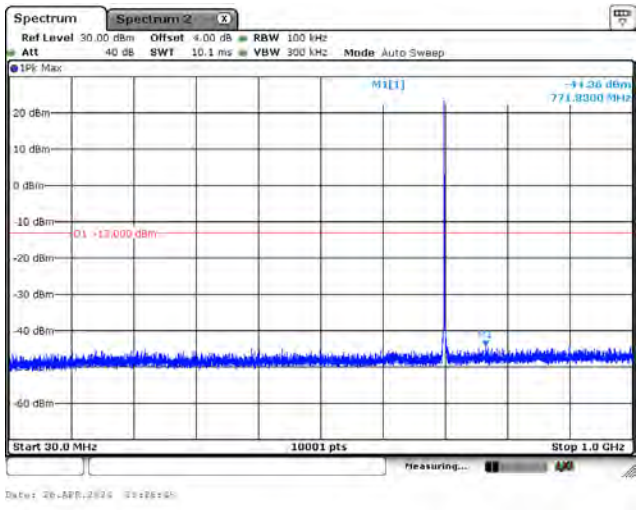
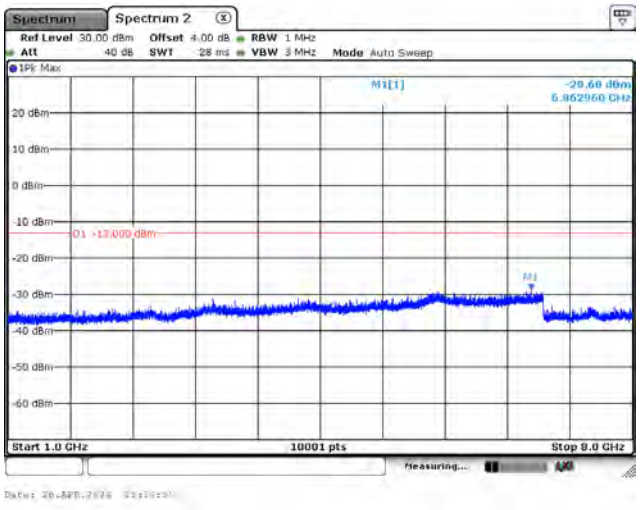
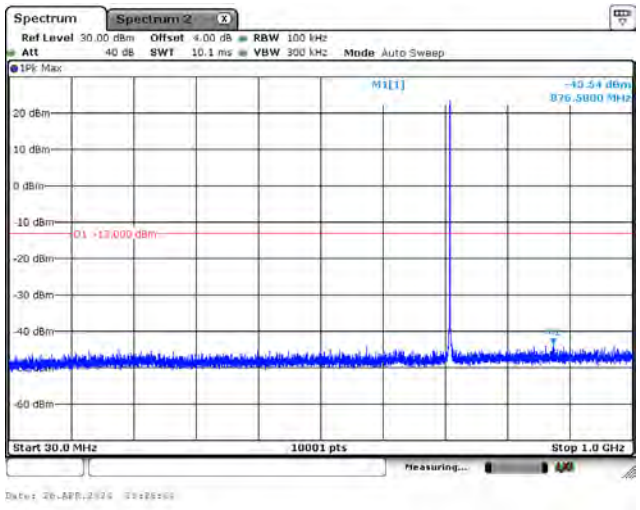
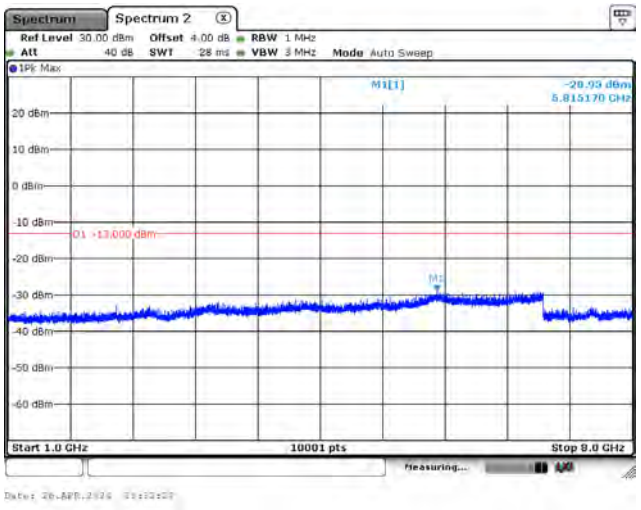
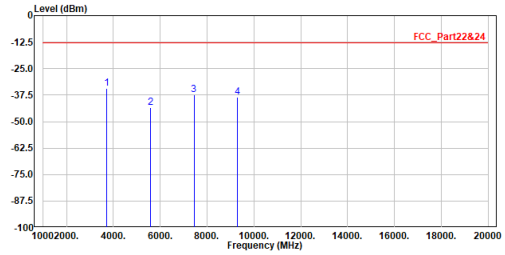
CH134004_15k_QPSK_1RB0_ Below 1G	CH134004_15k_QPSK_1RB0_ Above 1G
	
CH134092_15k_QPSK_1RB0_ Below 1G	CH134092_15k_QPSK_1RB0_ Above 1G
	
CH134180_15k_QPSK_1RB0_ Below 1G	CH134180_15k_QPSK_1RB0_Above 1G
	

Appendix D.2 Test Result of Radiated Spurious Emission

Mode 1: LTE Cat-M1 Band 2 / 25

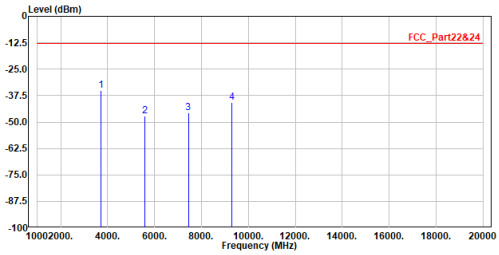
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band25_CH26140
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3720.000	-34.41	-13.00	-21.41	-27.26	-7.15	Peak
2	5580.000	-43.50	-13.00	-30.50	-41.69	-1.81	Peak
3	7440.000	-37.50	-13.00	-24.50	-41.57	4.07	Peak
4	9300.000	-38.47	-13.00	-25.47	-45.33	6.86	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

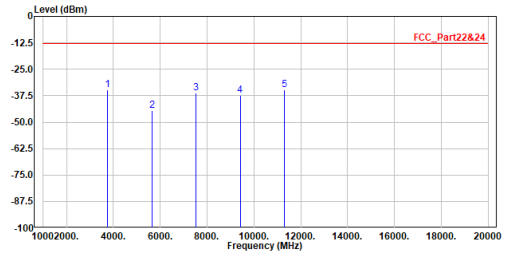
Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band25_CH26140
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3720.000	-35.16	-13.00	-22.16	-28.01	-7.15	Peak
2	5580.000	-47.10	-13.00	-34.10	-45.29	-1.81	Peak
3	7440.000	-45.48	-13.00	-32.48	-49.55	4.07	Peak
4	9300.000	-40.76	-13.00	-27.76	-47.62	6.86	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

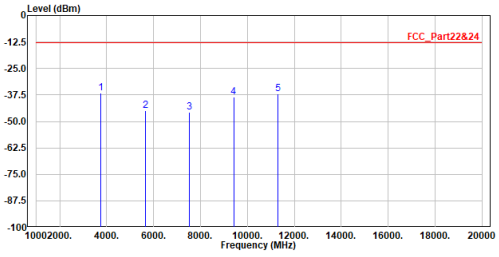
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band25_CH26365
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3765.000	-34.82	-13.00	-21.82	-27.89	-6.93	Peak
2	5647.500	-44.61	-13.00	-31.61	-43.00	-1.61	Peak
3	7530.000	-36.05	-13.00	-23.05	-40.20	4.15	Peak
4	9412.500	-37.39	-13.00	-24.39	-44.35	6.96	Peak
5	11295.000	-34.74	-13.00	-21.74	-44.45	9.71	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

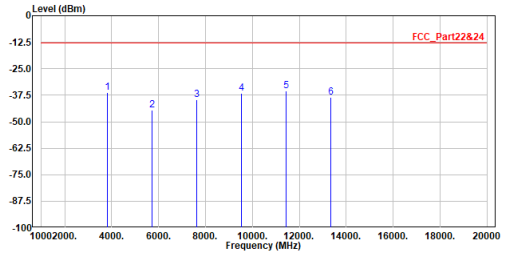
Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band25_CH26365
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3765.000	-36.44	-13.00	-23.44	-29.51	-6.93	Peak
2	5647.500	-44.88	-13.00	-31.88	-43.27	-1.61	Peak
3	7530.000	-45.63	-13.00	-32.63	-49.78	4.15	Peak
4	9412.500	-38.41	-13.00	-25.41	-45.37	6.96	Peak
5	11295.000	-36.90	-13.00	-23.90	-46.61	9.71	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

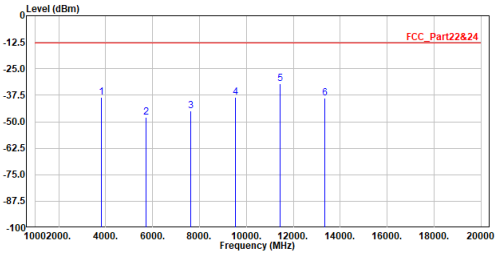
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band25_CH26590
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3810.000	-36.09	-13.00	-23.09	-29.37	-6.72	Peak
2	5715.000	-44.43	-13.00	-31.43	-43.03	-1.40	Peak
3	7620.000	-39.80	-13.00	-26.80	-44.01	4.21	Peak
4	9525.000	-36.67	-13.00	-23.67	-43.74	7.07	Peak
5	11430.000	-35.61	-13.00	-22.61	-45.55	9.94	Peak
6	13335.000	-38.41	-13.00	-25.41	-51.14	12.73	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band25_CH26590
Test By :Cyril

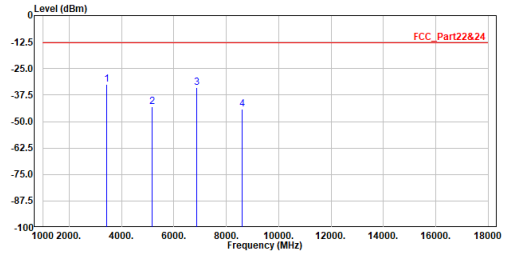


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3810.000	-38.57	-13.00	-25.57	-31.85	-6.72	Peak
2	5715.000	-47.89	-13.00	-34.89	-46.49	-1.40	Peak
3	7620.000	-45.04	-13.00	-32.04	-49.25	4.21	Peak
4	9525.000	-38.34	-13.00	-25.34	-45.41	7.07	Peak
5	11430.000	-32.24	-13.00	-19.24	-42.18	9.94	Peak
6	13335.000	-38.92	-13.00	-25.92	-51.65	12.73	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 2: LTE Cat-M1 Band 4 / 66

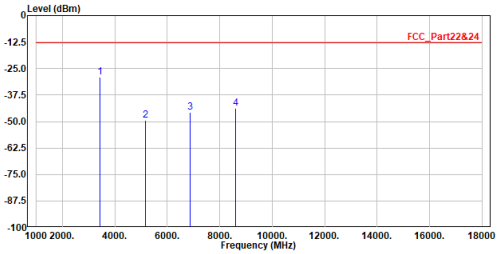
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band66_CH132072
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3440.000	-32.47	-13.00	-19.47	-24.11	-8.36	Peak
2	5160.000	-43.12	-13.00	-30.12	-40.98	-2.14	Peak
3	6880.000	-33.98	-13.00	-20.98	-37.30	3.32	Peak
4	8600.000	-44.05	-13.00	-31.05	-49.86	5.81	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

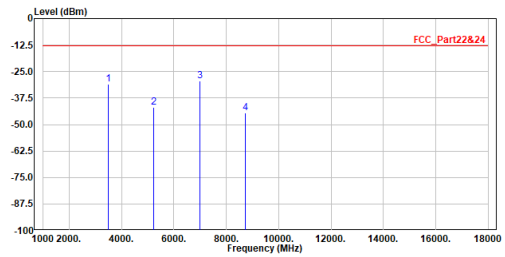
Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band66_CH132072
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3440.000	-29.16	-13.00	-16.16	-20.80	-8.36	Peak
2	5160.000	-49.43	-13.00	-36.43	-47.29	-2.14	Peak
3	6880.000	-45.84	-13.00	-32.84	-49.16	3.32	Peak
4	8600.000	-43.72	-13.00	-30.72	-49.53	5.81	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

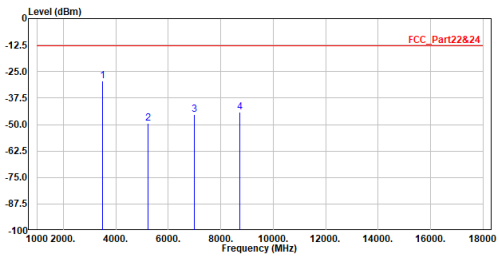
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band66_CH132322
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3490.000	-31.08	-13.00	-18.08	-22.85	-8.23	Peak
2	5235.000	-42.02	-13.00	-29.02	-39.89	-2.13	Peak
3	6980.000	-29.60	-13.00	-16.60	-33.14	3.54	Peak
4	8725.000	-44.52	-13.00	-31.52	-50.59	6.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

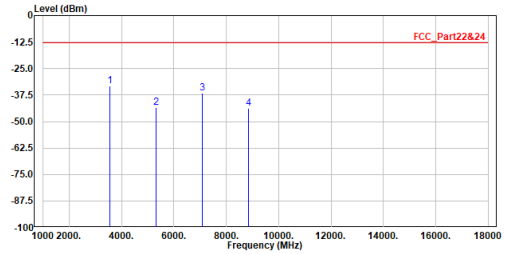
Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band66_CH132322
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3490.000	-29.54	-13.00	-16.54	-21.31	-8.23	Peak
2	5235.000	-49.51	-13.00	-36.51	-47.38	-2.13	Peak
3	6980.000	-45.10	-13.00	-32.10	-48.64	3.54	Peak
4	8725.000	-44.07	-13.00	-31.07	-50.14	6.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

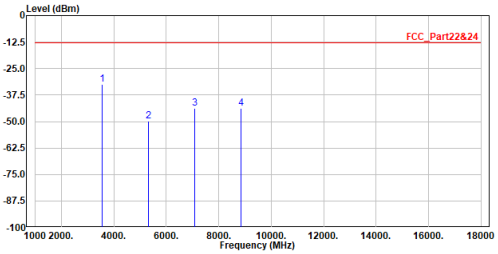
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band66_CH132572
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3540.000	-33.29	-13.00	-20.29	-25.28	-8.01	Peak
2	5310.000	-43.48	-13.00	-30.48	-41.37	-2.11	Peak
3	7080.000	-36.52	-13.00	-23.52	-40.19	3.67	Peak
4	8850.000	-43.67	-13.00	-30.67	-50.00	6.33	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band66_CH132572
Test By :Cyril

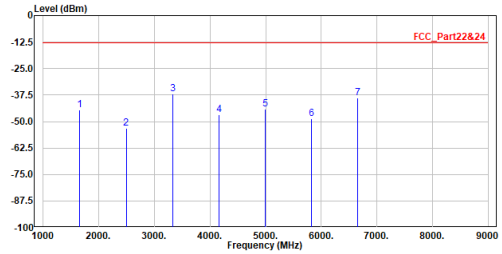


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3540.000	-32.56	-13.00	-19.56	-24.55	-8.01	Peak
2	5310.000	-49.96	-13.00	-36.96	-47.85	-2.11	Peak
3	7080.000	-43.70	-13.00	-30.70	-47.37	3.67	Peak
4	8850.000	-43.63	-13.00	-30.63	-49.96	6.33	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 3: LTE Cat-M1 Band 5 / 26 (Part 22)

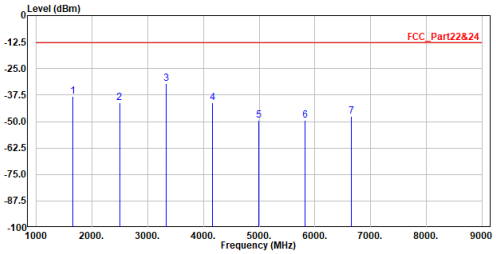
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band26_CH26865
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1663.000	-44.43	-13.00	-31.43	-29.87	-14.56	Peak
2	2494.500	-53.20	-13.00	-40.20	-41.70	-11.50	Peak
3	3326.000	-37.10	-13.00	-24.10	-28.41	-8.69	Peak
4	4157.500	-46.97	-13.00	-33.97	-41.68	-5.29	Peak
5	4989.000	-44.33	-13.00	-31.33	-42.11	-2.22	Peak
6	5820.500	-48.85	-13.00	-35.85	-47.79	-1.06	Peak
7	6652.000	-38.87	-13.00	-25.87	-41.70	2.83	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

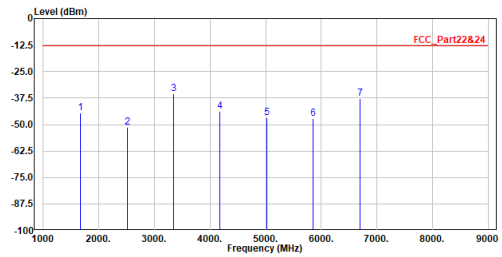
Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band26_CH26865
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1663.000	-38.28	-13.00	-25.28	-23.72	-14.56	Peak
2	2494.500	-41.05	-13.00	-28.05	-29.55	-11.50	Peak
3	3326.000	-32.09	-13.00	-19.09	-23.40	-8.69	Peak
4	4157.500	-41.20	-13.00	-28.20	-35.91	-5.29	Peak
5	4989.000	-49.38	-13.00	-36.38	-47.16	-2.22	Peak
6	5820.500	-49.60	-13.00	-36.60	-48.54	-1.06	Peak
7	6652.000	-47.38	-13.00	-34.38	-50.21	2.83	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

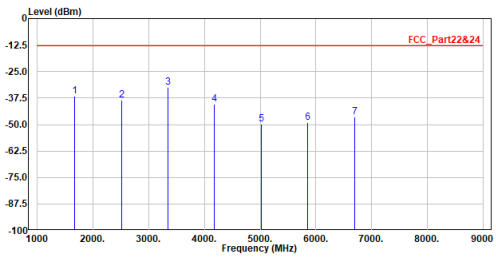
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band26_CH26915
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1673.000	-44.70	-13.00	-31.70	-30.18	-14.52	Peak
2	2509.500	-51.15	-13.00	-38.15	-39.71	-11.44	Peak
3	3346.000	-35.58	-13.00	-22.58	-26.95	-8.63	Peak
4	4182.500	-43.91	-13.00	-30.91	-38.71	-5.20	Peak
5	5019.000	-46.94	-13.00	-33.94	-44.76	-2.18	Peak
6	5855.500	-47.28	-13.00	-34.28	-46.32	-0.96	Peak
7	6692.000	-37.85	-13.00	-24.85	-40.76	2.91	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

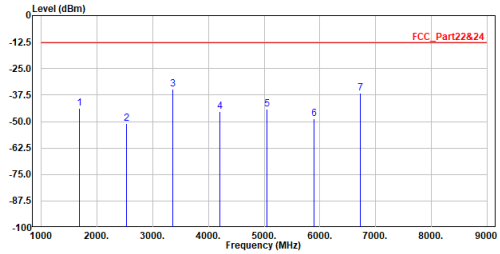
Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band26_CH26915
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1673.000	-36.53	-13.00	-23.53	-22.01	-14.52	Peak
2	2509.500	-38.57	-13.00	-25.57	-27.13	-11.44	Peak
3	3346.000	-32.53	-13.00	-19.53	-23.90	-8.63	Peak
4	4182.500	-40.28	-13.00	-27.28	-35.08	-5.20	Peak
5	5019.000	-49.71	-13.00	-36.71	-47.53	-2.18	Peak
6	5855.500	-49.01	-13.00	-36.01	-48.05	-0.96	Peak
7	6692.000	-46.45	-13.00	-33.45	-49.36	2.91	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

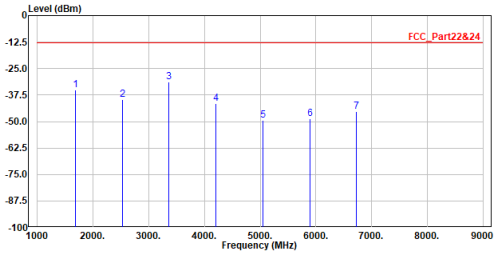
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band26_CH26965
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1683.000	-43.78	-13.00	-30.78	-29.30	-14.48	Peak
2	2524.500	-51.10	-13.00	-38.10	-39.70	-11.40	Peak
3	3366.000	-34.69	-13.00	-21.69	-26.11	-8.58	Peak
4	4207.500	-45.26	-13.00	-32.26	-40.14	-5.12	Peak
5	5049.000	-44.32	-13.00	-31.32	-42.15	-2.17	Peak
6	5890.500	-48.72	-13.00	-35.72	-47.87	-0.85	Peak
7	6732.000	-36.54	-13.00	-23.54	-39.55	3.01	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band26_CH26965
Test By :Cyril

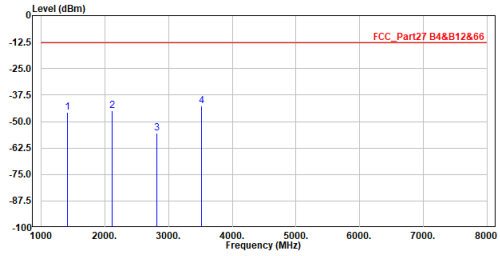


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1683.000	-35.24	-13.00	-22.24	-20.76	-14.48	Peak
2	2524.500	-39.54	-13.00	-26.54	-28.14	-11.40	Peak
3	3366.000	-31.43	-13.00	-18.43	-22.85	-8.58	Peak
4	4207.500	-41.47	-13.00	-28.47	-36.35	-5.12	Peak
5	5049.000	-49.39	-13.00	-36.39	-47.22	-2.17	Peak
6	5890.500	-48.62	-13.00	-35.62	-47.77	-0.85	Peak
7	6732.000	-45.18	-13.00	-32.18	-48.19	3.01	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 4: LTE Cat-M1 Band 12

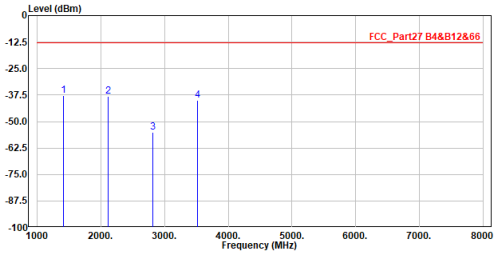
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band12_CH23060
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1408.000	-45.66	-13.00	-32.66	-30.05	-15.61	Peak
2	2112.000	-44.98	-13.00	-31.98	-32.26	-12.72	Peak
3	2816.000	-55.57	-13.00	-42.57	-45.28	-10.29	Peak
4	3520.000	-42.58	-13.00	-29.58	-34.48	-8.10	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

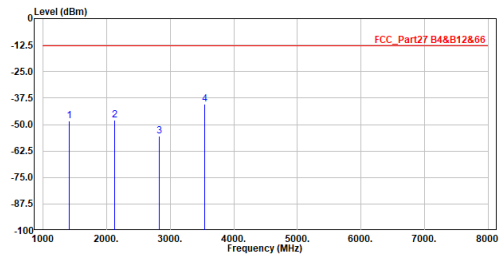
Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band12_CH23060
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1408.000	-37.61	-13.00	-24.61	-22.00	-15.61	Peak
2	2112.000	-38.27	-13.00	-25.27	-25.55	-12.72	Peak
3	2816.000	-55.20	-13.00	-42.20	-44.91	-10.29	Peak
4	3520.000	-39.90	-13.00	-26.90	-31.80	-8.10	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

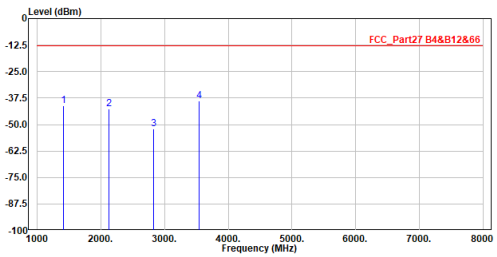
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band12_CH23095
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1415.000	-48.30	-13.00	-35.30	-32.72	-15.58	Peak
2	2122.500	-47.88	-13.00	-34.88	-35.20	-12.68	Peak
3	2830.000	-55.63	-13.00	-42.63	-45.40	-10.23	Peak
4	3537.500	-40.23	-13.00	-27.23	-32.21	-8.02	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

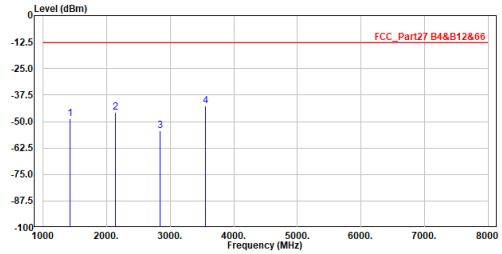
Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band12_CH23095
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1415.000	-41.13	-13.00	-28.13	-25.55	-15.58	Peak
2	2122.500	-42.74	-13.00	-29.74	-30.06	-12.68	Peak
3	2830.000	-52.00	-13.00	-39.00	-41.77	-10.23	Peak
4	3537.500	-38.70	-13.00	-25.70	-30.68	-8.02	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

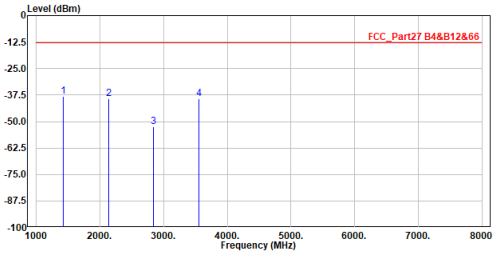
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band12_CH23130
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1422.000	-48.54	-13.00	-35.54	-32.98	-15.56	Peak
2	2133.000	-45.65	-13.00	-32.65	-33.00	-12.65	Peak
3	2844.000	-54.49	-13.00	-41.49	-44.31	-10.18	Peak
4	3555.000	-42.47	-13.00	-29.47	-34.54	-7.93	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band12_CH23130
Test By :Cyril

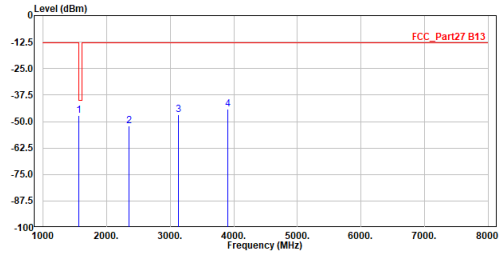


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1422.000	-38.18	-13.00	-25.18	-22.62	-15.56	Peak
2	2133.000	-39.28	-13.00	-26.28	-26.63	-12.65	Peak
3	2844.000	-52.49	-13.00	-39.49	-42.31	-10.18	Peak
4	3555.000	-39.30	-13.00	-26.30	-31.37	-7.93	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 5: LTE Cat-M1 Band 13

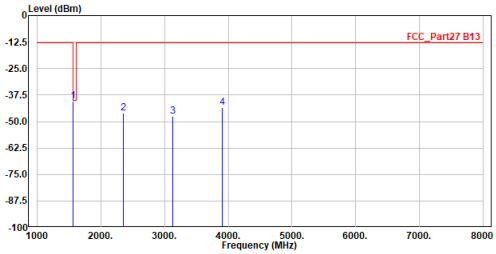
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band13_CH23230
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1564.000	-47.31	-40.00	-7.31	-66.53	19.22	Peak
2	2346.000	-52.03	-13.00	-39.03	-75.51	23.48	Peak
3	3128.000	-46.82	-13.00	-33.82	-74.05	27.23	Peak
4	3910.000	-44.08	-13.00	-31.08	-75.73	31.65	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band13_CH23230
Test By :Luffy

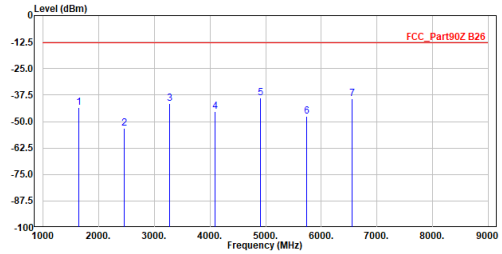


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1564.000	-40.37	-40.00	-0.37	-59.59	19.22	Peak
2	2346.000	-45.91	-13.00	-32.91	-69.39	23.48	Peak
3	3128.000	-47.39	-13.00	-34.39	-74.62	27.23	Peak
4	3910.000	-43.48	-13.00	-30.48	-75.13	31.65	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 6: LTE Cat-M1 Band 26 (Part 90)

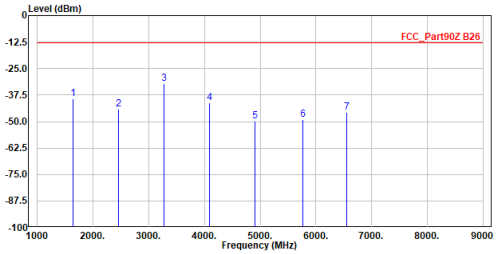
Site :HC-CB02
Condition :3m Horizontal
Mode :Cat-M1_Band26_CH26740
Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1638.000	-43.58	-13.00	-30.58	-28.90	-14.68	Peak
2	2457.000	-53.03	-13.00	-40.03	-41.41	-11.62	Peak
3	3276.000	-41.54	-13.00	-28.54	-32.71	-8.83	Peak
4	4095.000	-45.15	-13.00	-32.15	-39.65	-5.50	Peak
5	4914.000	-39.00	-13.00	-26.00	-36.48	-2.52	Peak
6	5733.000	-47.66	-13.00	-34.66	-46.32	-1.34	Peak
7	6552.000	-39.41	-13.00	-26.41	-42.01	2.60	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :Cat-M1_Band26_CH26740
Test By :Cyril

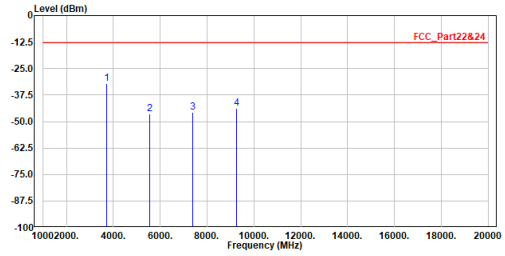


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1638.000	-39.15	-13.00	-26.15	-24.47	-14.68	Peak
2	2457.000	-44.15	-13.00	-31.15	-32.53	-11.62	Peak
3	3276.000	-32.16	-13.00	-19.16	-23.33	-8.83	Peak
4	4095.000	-41.29	-13.00	-28.29	-35.79	-5.50	Peak
5	4914.000	-49.74	-13.00	-36.74	-47.22	-2.52	Peak
6	5773.000	-49.07	-13.00	-36.07	-47.85	-1.22	Peak
7	6552.000	-45.65	-13.00	-32.65	-48.25	2.60	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 7: LTE NB-IoT Band 2 / 25

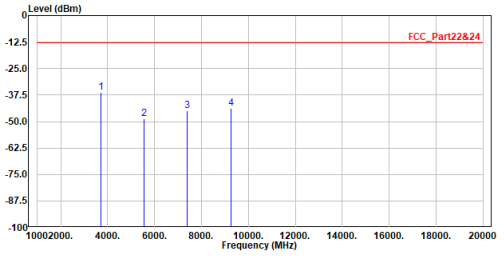
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band25_CH26042
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3700.400	-32.23	-13.00	-19.23	-24.98	-7.25	Peak
2	5550.600	-46.26	-13.00	-33.26	-44.35	-1.91	Peak
3	7400.800	-45.62	-13.00	-32.62	-49.64	4.02	Peak
4	9251.000	-43.68	-13.00	-30.68	-50.51	6.83	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

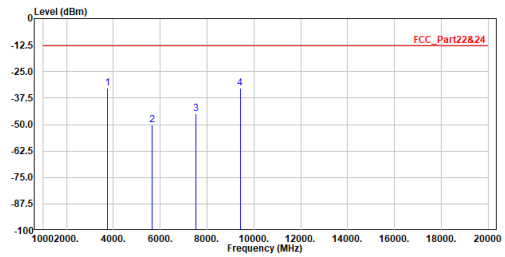
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band25_CH26042
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3700.400	-36.35	-13.00	-23.35	-29.10	-7.25	Peak
2	5550.600	-48.53	-13.00	-35.53	-46.62	-1.91	Peak
3	7400.800	-45.00	-13.00	-32.00	-49.02	4.02	Peak
4	9251.000	-43.70	-13.00	-30.70	-50.53	6.83	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

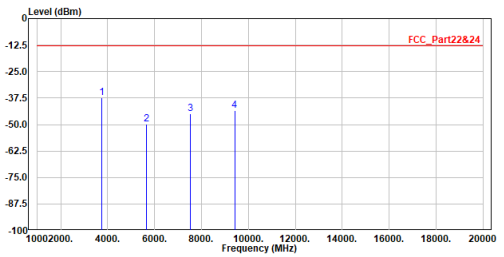
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band25_CH26365
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3765.000	-32.64	-13.00	-19.64	-25.71	-6.93	Peak
2	5647.500	-50.17	-13.00	-37.17	-48.56	-1.61	Peak
3	7530.000	-44.99	-13.00	-31.99	-49.14	4.15	Peak
4	9412.500	-32.64	-13.00	-19.64	-39.60	6.96	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

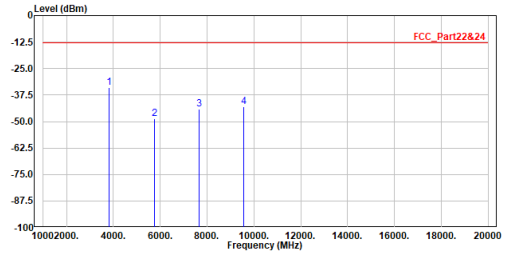
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band25_CH26365
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3765.000	-37.37	-13.00	-24.37	-30.44	-6.93	Peak
2	5647.500	-49.92	-13.00	-36.92	-48.31	-1.61	Peak
3	7530.000	-45.07	-13.00	-32.07	-49.22	4.15	Peak
4	9412.500	-43.40	-13.00	-30.40	-50.36	6.96	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

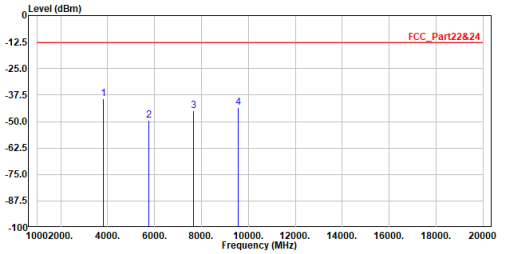
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band25_CH26688
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3829.600	-33.94	-13.00	-20.94	-27.32	-6.62	Peak
2	5744.400	-48.83	-13.00	-35.83	-47.53	-1.30	Peak
3	7659.200	-43.98	-13.00	-30.98	-48.20	4.22	Peak
4	9574.000	-43.04	-13.00	-30.04	-50.21	7.17	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band25_CH26688
Test By :Luffy

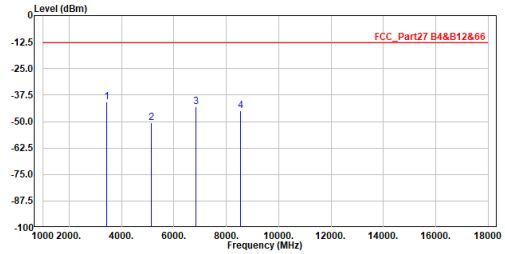


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3829.600	-39.34	-13.00	-26.34	-32.72	-6.62	Peak
2	5744.400	-49.39	-13.00	-36.39	-48.09	-1.30	Peak
3	7659.200	-44.86	-13.00	-31.86	-49.08	4.22	Peak
4	9574.000	-43.40	-13.00	-30.40	-50.57	7.17	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 8: LTE NB-IoT Band 4 / 66

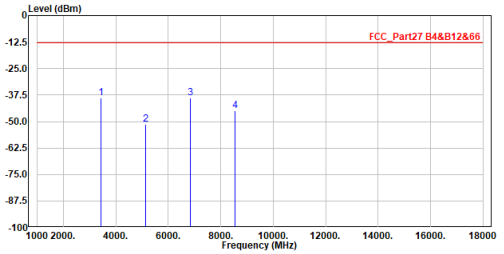
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band66_CH131974
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3420.400	-40.67	-13.00	-27.67	-32.24	-8.43	Peak
2	5130.600	-50.75	-13.00	-37.75	-48.60	-2.15	Peak
3	6840.800	-43.04	-13.00	-30.04	-46.28	3.24	Peak
4	8551.000	-44.76	-13.00	-31.76	-50.48	5.72	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

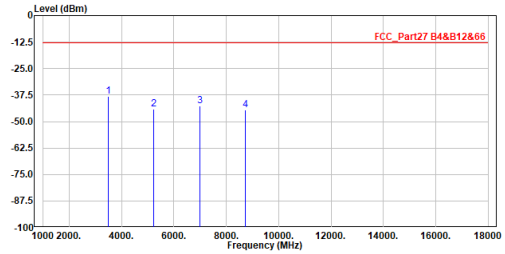
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band66_CH131974
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3420.400	-38.75	-13.00	-25.75	-30.32	-8.43	Peak
2	5130.600	-51.38	-13.00	-38.38	-49.23	-2.15	Peak
3	6840.800	-38.75	-13.00	-25.75	-41.99	3.24	Peak
4	8551.000	-45.01	-13.00	-32.01	-50.73	5.72	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

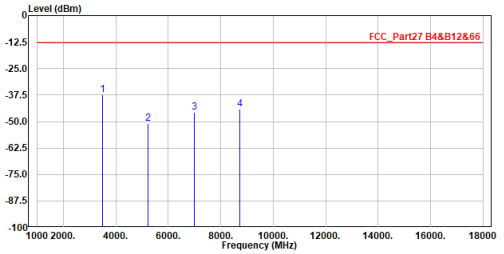
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band66_CH132322
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3490.000	-37.98	-13.00	-24.98	-29.75	-8.23	Peak
2	5235.000	-44.11	-13.00	-31.11	-41.98	-2.13	Peak
3	6980.000	-42.68	-13.00	-29.68	-46.22	3.54	Peak
4	8725.000	-44.46	-13.00	-31.46	-50.53	6.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

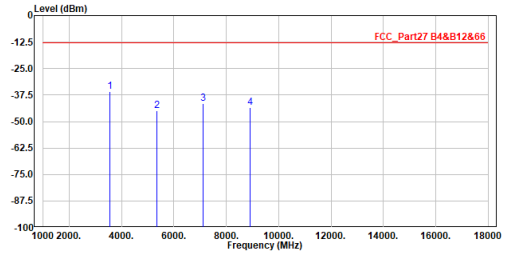
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band66_CH132322
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3490.000	-37.51	-13.00	-24.51	-29.28	-8.23	Peak
2	5235.000	-50.89	-13.00	-37.89	-48.76	-2.13	Peak
3	6980.000	-45.68	-13.00	-32.68	-49.22	3.54	Peak
4	8725.000	-43.98	-13.00	-30.98	-50.05	6.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

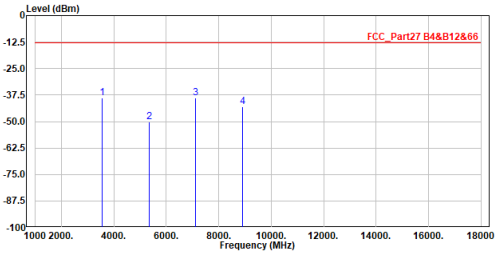
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band66_CH132670
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3559.600	-35.95	-13.00	-22.95	-28.04	-7.91	Peak
2	5339.400	-45.08	-13.00	-32.08	-42.97	-2.11	Peak
3	7119.200	-41.62	-13.00	-28.62	-45.35	3.73	Peak
4	8899.000	-43.45	-13.00	-30.45	-49.88	6.43	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band66_CH132670
Test By :Luffy

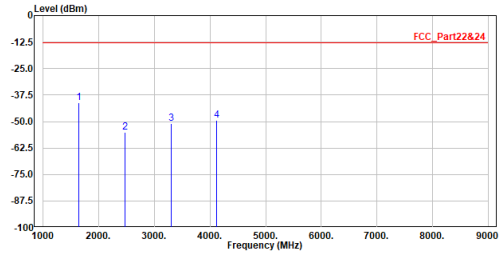


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3559.600	-38.81	-13.00	-25.81	-30.90	-7.91	Peak
2	5339.400	-50.12	-13.00	-37.12	-48.01	-2.11	Peak
3	7119.200	-38.81	-13.00	-25.81	-42.54	3.73	Peak
4	8899.000	-42.90	-13.00	-29.90	-49.33	6.43	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 9: LTE NB-IoT Band 5 / 26 (Part 22)

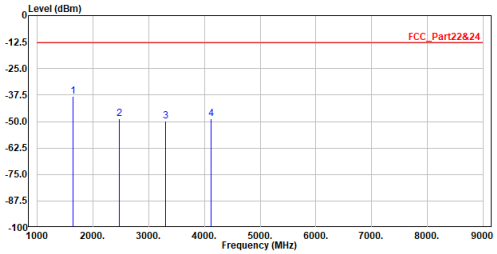
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band26_CH26792
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1648.400	-41.16	-13.00	-28.16	-26.53	-14.63	Peak
2	2472.600	-55.23	-13.00	-42.23	-43.67	-11.56	Peak
3	3296.800	-50.85	-13.00	-37.85	-42.08	-8.77	Peak
4	4121.000	-49.42	-13.00	-36.42	-44.01	-5.41	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

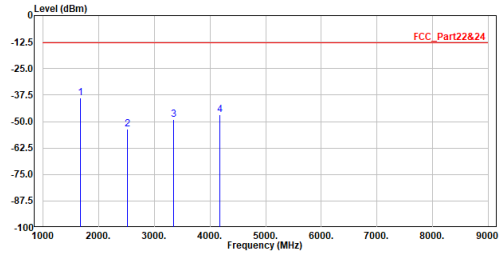
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band26_CH26792
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1648.400	-38.11	-13.00	-25.11	-23.48	-14.63	Peak
2	2472.600	-48.72	-13.00	-35.72	-37.16	-11.56	Peak
3	3296.800	-49.79	-13.00	-36.79	-41.02	-8.77	Peak
4	4121.000	-48.51	-13.00	-35.51	-43.10	-5.41	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

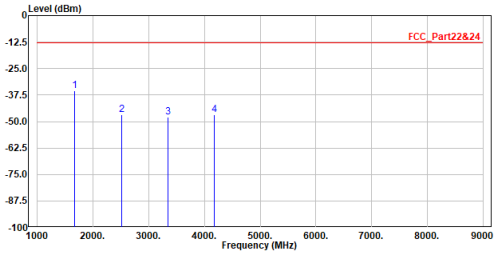
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band26_CH26915
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1673.000	-38.84	-13.00	-25.84	-24.32	-14.52	Peak
2	2509.500	-53.71	-13.00	-40.71	-42.27	-11.44	Peak
3	3346.000	-49.16	-13.00	-36.16	-40.53	-8.63	Peak
4	4182.500	-46.93	-13.00	-33.93	-41.73	-5.20	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

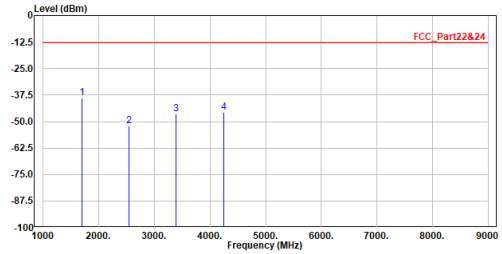
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band26_CH26915
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1673.000	-35.45	-13.00	-22.45	-20.93	-14.52	Peak
2	2509.500	-46.73	-13.00	-33.73	-35.29	-11.44	Peak
3	3346.000	-47.97	-13.00	-34.97	-39.34	-8.63	Peak
4	4182.500	-46.88	-13.00	-33.88	-41.68	-5.20	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

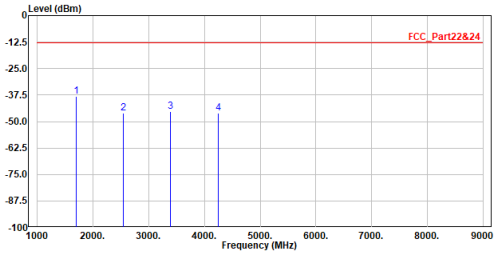
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band26_CH27038
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1697.600	-38.79	-13.00	-25.79	-24.37	-14.42	Peak
2	2546.400	-52.19	-13.00	-39.19	-40.88	-11.31	Peak
3	3395.200	-46.29	-13.00	-33.29	-37.79	-8.50	Peak
4	4244.000	-45.57	-13.00	-32.57	-40.57	-5.00	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band26_CH27038
Test By :Luffy

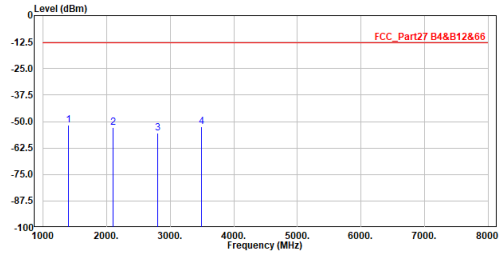


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1697.600	-38.03	-13.00	-25.03	-23.61	-14.42	Peak
2	2546.400	-46.00	-13.00	-33.00	-34.69	-11.31	Peak
3	3395.200	-45.44	-13.00	-32.44	-36.94	-8.50	Peak
4	4244.000	-45.88	-13.00	-32.88	-40.88	-5.00	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 10: LTE NB-IoT Band 12

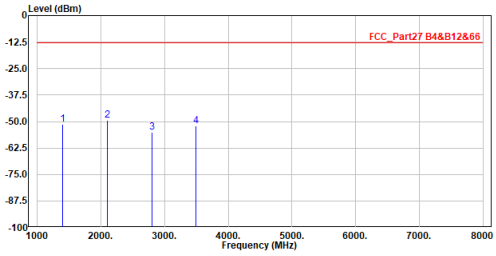
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band12_CH23012
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1398.400	-51.75	-13.00	-38.75	-36.11	-15.64	Peak
2	2097.600	-52.88	-13.00	-39.88	-40.12	-12.76	Peak
3	2796.800	-55.29	-13.00	-42.29	-44.92	-10.37	Peak
4	3496.000	-52.45	-13.00	-39.45	-44.25	-8.20	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

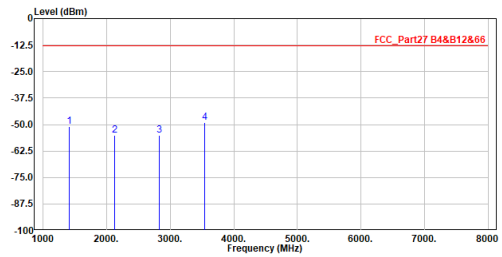
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band12_CH23012
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1398.400	-51.24	-13.00	-38.24	-35.60	-15.64	Peak
2	2097.600	-49.32	-13.00	-36.32	-36.56	-12.76	Peak
3	2796.800	-55.20	-13.00	-42.20	-44.83	-10.37	Peak
4	3496.000	-52.23	-13.00	-39.23	-44.03	-8.20	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

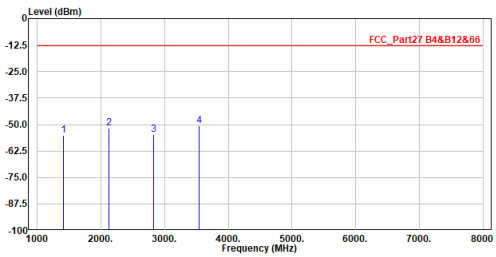
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band12_CH23095
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1415.000	-51.12	-13.00	-38.12	-35.54	-15.58	Peak
2	2122.500	-55.01	-13.00	-42.01	-42.33	-12.68	Peak
3	2830.000	-55.22	-13.00	-42.22	-44.99	-10.23	Peak
4	3537.500	-48.98	-13.00	-35.98	-40.96	-8.02	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

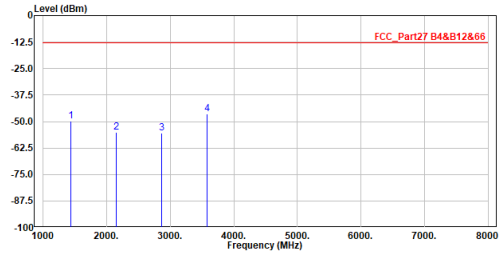
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band12_CH23095
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1415.000	-55.14	-13.00	-42.14	-39.56	-15.58	Peak
2	2122.500	-51.87	-13.00	-38.87	-39.19	-12.68	Peak
3	2830.000	-54.72	-13.00	-41.72	-44.49	-10.23	Peak
4	3537.500	-50.44	-13.00	-37.44	-42.42	-8.02	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

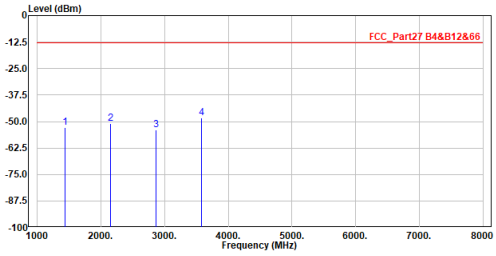
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band12_CH23178
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1431.600	-49.72	-13.00	-36.72	-34.20	-15.52	Peak
2	2147.400	-54.95	-13.00	-41.95	-42.34	-12.61	Peak
3	2863.200	-55.54	-13.00	-42.54	-45.43	-10.11	Peak
4	3579.000	-46.37	-13.00	-33.37	-38.55	-7.82	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band12_CH23178
Test By :Luffy

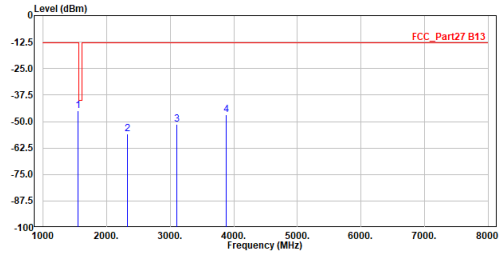


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1431.600	-52.76	-13.00	-39.76	-37.24	-15.52	Peak
2	2147.400	-51.13	-13.00	-38.13	-38.52	-12.61	Peak
3	2863.200	-54.02	-13.00	-41.02	-43.91	-10.11	Peak
4	3579.000	-48.44	-13.00	-35.44	-40.62	-7.82	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 11: LTE NB-IoT Band 13

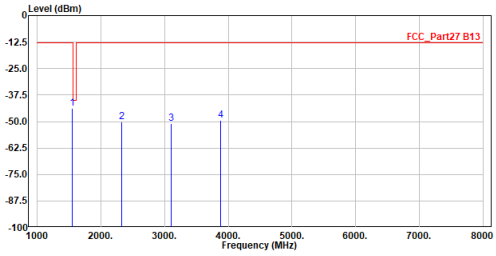
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band13_CH23182
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1554.400	-45.08	-13.00	-32.08	-30.03	-15.05	Peak
2	2331.600	-55.81	-13.00	-42.81	-43.79	-12.02	Peak
3	3108.800	-51.31	-13.00	-38.31	-42.02	-9.29	Peak
4	3886.000	-46.71	-13.00	-33.71	-40.35	-6.36	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

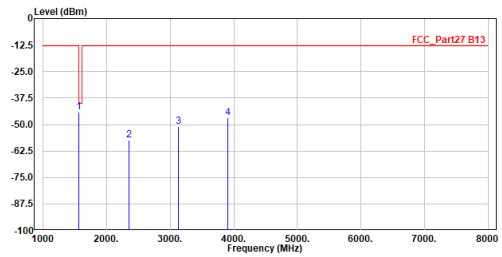
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band13_CH23182
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1554.400	-43.94	-13.00	-30.94	-28.89	-15.05	Peak
2	2331.600	-50.07	-13.00	-37.07	-38.05	-12.02	Peak
3	3108.800	-50.97	-13.00	-37.97	-41.68	-9.29	Peak
4	3886.000	-49.45	-13.00	-36.45	-43.09	-6.36	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

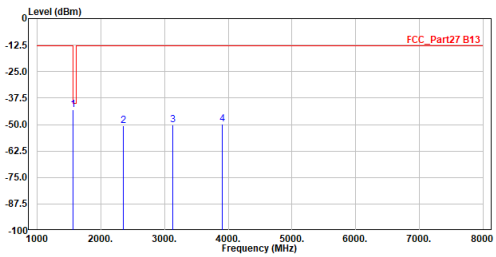
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band13_CH23230
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1564.000	-44.12	-40.00	-4.12	-29.11	-15.01	Peak
2	2346.000	-57.31	-13.00	-44.31	-45.34	-11.97	Peak
3	3128.000	-50.87	-13.00	-37.87	-41.62	-9.25	Peak
4	3910.000	-46.85	-13.00	-33.85	-40.61	-6.24	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

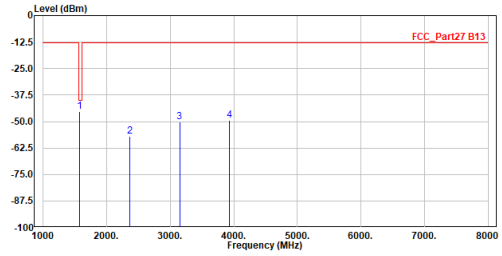
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band13_CH23230
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1564.000	-42.86	-40.00	-2.86	-27.85	-15.01	Peak
2	2346.000	-50.64	-13.00	-37.64	-38.67	-11.97	Peak
3	3128.000	-50.31	-13.00	-37.31	-41.06	-9.25	Peak
4	3910.000	-49.70	-13.00	-36.70	-43.46	-6.24	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

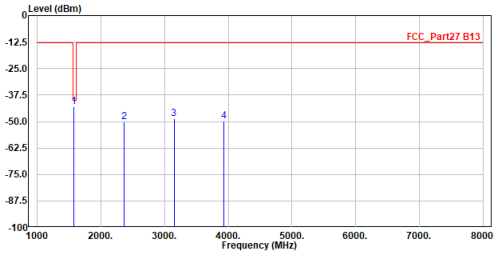
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band13_CH23278
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1573.600	-45.18	-40.00	-5.18	-30.22	-14.96	Peak
2	2360.400	-56.95	-13.00	-43.95	-45.02	-11.93	Peak
3	3147.200	-50.36	-13.00	-37.36	-41.18	-9.18	Peak
4	3934.000	-49.45	-13.00	-36.45	-43.33	-6.12	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band13_CH23278
Test By :Luffy

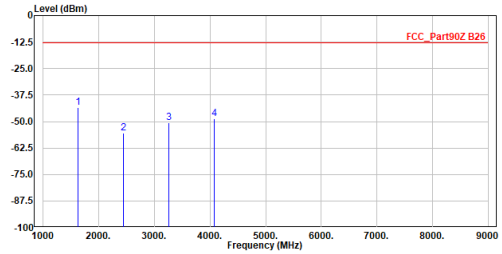


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1573.600	-43.00	-40.00	-3.00	-28.04	-14.96	Peak
2	2360.400	-50.18	-13.00	-37.18	-38.25	-11.93	Peak
3	3147.200	-48.75	-13.00	-35.75	-39.57	-9.18	Peak
4	3934.000	-49.80	-13.00	-36.80	-43.68	-6.12	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 12: LTE NB-IoT 1 Band 26 (Part 90)

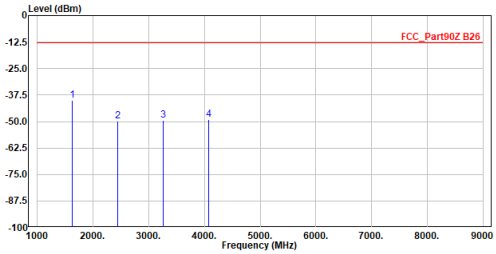
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band26_CH26692
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1628.400	-43.40	-13.00	-30.40	-28.68	-14.72	Peak
2	2442.600	-55.59	-13.00	-42.59	-43.94	-11.65	Peak
3	3256.800	-50.65	-13.00	-37.65	-41.77	-8.88	Peak
4	4071.000	-48.79	-13.00	-35.79	-43.22	-5.57	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

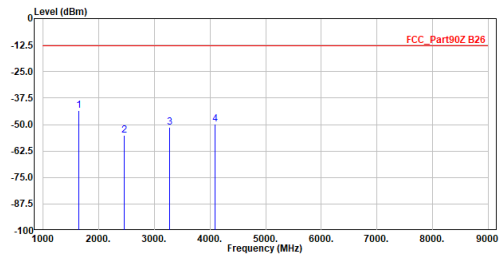
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band26_CH26692
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1628.400	-39.91	-13.00	-26.91	-25.19	-14.72	Peak
2	2442.600	-49.91	-13.00	-36.91	-38.26	-11.65	Peak
3	3256.800	-49.27	-13.00	-36.27	-40.39	-8.88	Peak
4	4071.000	-49.12	-13.00	-36.12	-43.55	-5.57	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

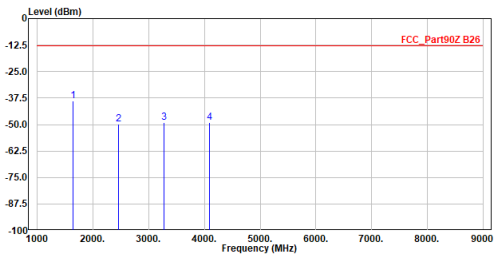
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band26_CH26740
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1638.000	-43.39	-13.00	-30.39	-28.71	-14.68	Peak
2	2457.000	-55.14	-13.00	-42.14	-43.52	-11.62	Peak
3	3276.000	-51.18	-13.00	-38.18	-42.35	-8.83	Peak
4	4095.000	-49.67	-13.00	-36.67	-44.17	-5.50	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

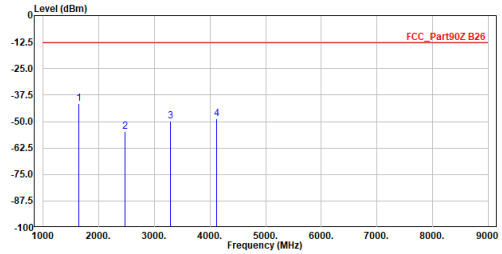
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band26_CH26740
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1638.000	-39.05	-13.00	-26.05	-24.37	-14.68	Peak
2	2457.000	-49.78	-13.00	-36.78	-38.16	-11.62	Peak
3	3276.000	-49.08	-13.00	-36.08	-40.25	-8.83	Peak
4	4095.000	-48.87	-13.00	-35.87	-43.37	-5.50	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

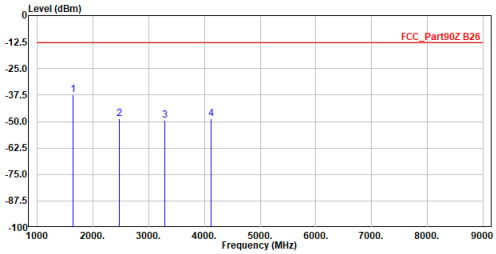
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band26_CH26788
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1647.600	-41.54	-13.00	-28.54	-26.90	-14.64	Peak
2	2471.400	-54.82	-13.00	-41.82	-43.25	-11.57	Peak
3	3295.200	-49.69	-13.00	-36.69	-40.91	-8.78	Peak
4	4119.000	-48.61	-13.00	-35.61	-43.20	-5.41	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band26_CH26788
Test By :Luffy

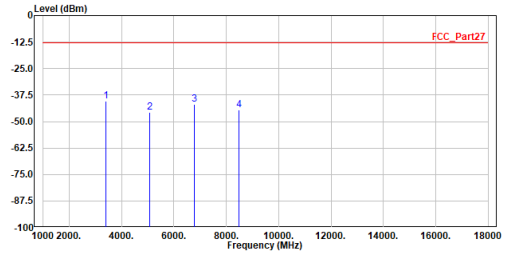


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1647.600	-37.33	-13.00	-24.33	-22.69	-14.64	Peak
2	2471.400	-48.54	-13.00	-35.54	-36.97	-11.57	Peak
3	3295.200	-49.42	-13.00	-36.42	-40.64	-8.78	Peak
4	4119.000	-48.57	-13.00	-35.57	-43.16	-5.41	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 13: LTE NB-IoT Band 70

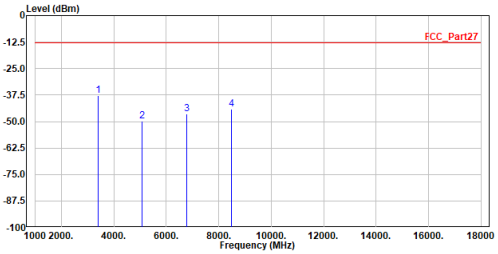
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band70_CH132974
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3390.400	-40.39	-13.00	-27.39	-31.88	-8.51	Peak
2	5085.600	-45.58	-13.00	-32.58	-43.42	-2.16	Peak
3	6780.800	-41.97	-13.00	-28.97	-45.07	3.10	Peak
4	8476.000	-44.65	-13.00	-31.65	-50.21	5.56	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

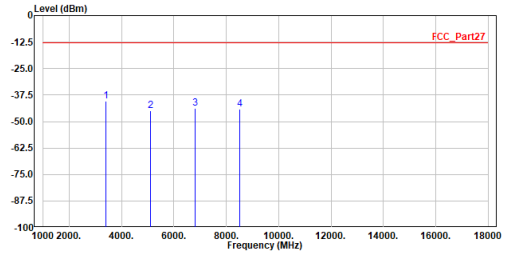
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band70_CH132974
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3390.400	-37.64	-13.00	-24.64	-29.13	-8.51	Peak
2	5085.600	-49.70	-13.00	-36.70	-47.54	-2.16	Peak
3	6780.800	-46.50	-13.00	-33.50	-49.60	3.10	Peak
4	8476.000	-43.97	-13.00	-30.97	-49.53	5.56	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

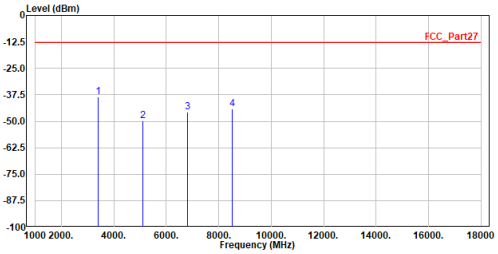
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band70_CH133047
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3405.000	-40.38	-13.00	-27.38	-31.92	-8.46	Peak
2	5107.500	-44.73	-13.00	-31.73	-42.58	-2.15	Peak
3	6810.000	-43.79	-13.00	-30.79	-46.97	3.18	Peak
4	8512.500	-44.05	-13.00	-31.05	-49.69	5.64	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

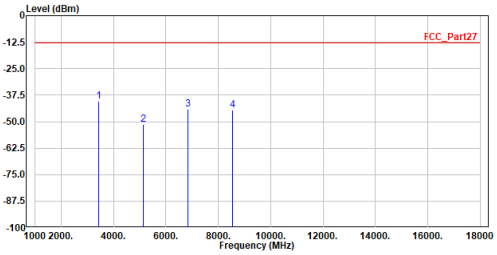
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band70_CH133047
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3405.000	-38.43	-13.00	-25.43	-29.97	-8.46	Peak
2	5107.500	-49.98	-13.00	-36.98	-47.83	-2.15	Peak
3	6810.000	-45.57	-13.00	-32.57	-48.75	3.18	Peak
4	8512.500	-44.09	-13.00	-31.09	-49.73	5.64	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

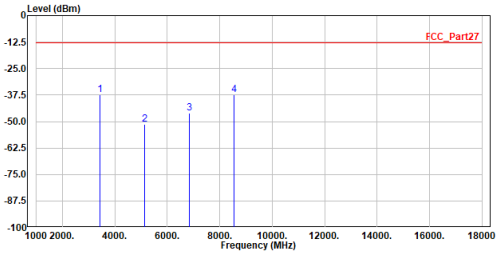
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band70_CH133120
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3419.600	-40.21	-13.00	-27.21	-31.78	-8.43	Peak
2	5129.400	-51.19	-13.00	-38.19	-49.04	-2.15	Peak
3	6839.200	-44.06	-13.00	-31.06	-47.30	3.24	Peak
4	8549.000	-44.68	-13.00	-31.68	-50.39	5.71	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band70_CH133120
Test By :Luffy

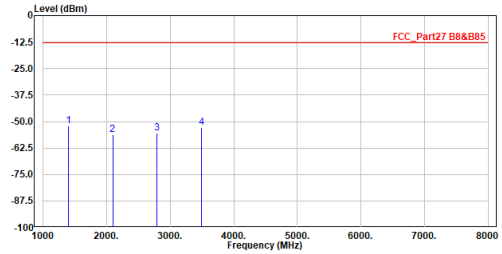


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3419.600	-37.52	-13.00	-24.52	-29.09	-8.43	Peak
2	5129.400	-51.32	-13.00	-38.32	-49.17	-2.15	Peak
3	6839.200	-46.04	-13.00	-33.04	-49.28	3.24	Peak
4	8549.000	-37.52	-13.00	-24.52	-43.23	5.71	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Mode 14: LTE NB-IoT Band 85

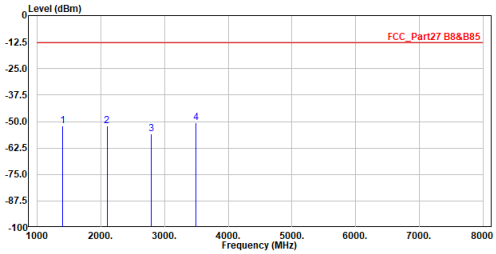
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band85_CH134004
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1396.400	-52.26	-13.00	-39.26	-36.61	-15.65	Peak
2	2094.600	-56.21	-13.00	-43.21	-43.44	-12.77	Peak
3	2792.800	-55.46	-13.00	-42.46	-45.08	-10.38	Peak
4	3491.000	-52.76	-13.00	-39.76	-44.53	-8.23	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

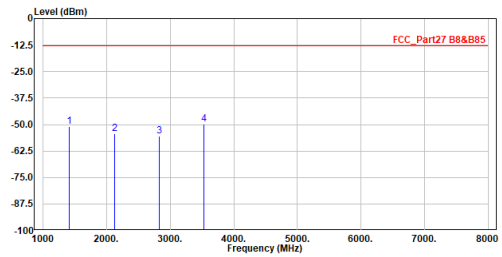
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band85_CH134004
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1396.400	-52.20	-13.00	-39.20	-36.55	-15.65	Peak
2	2094.600	-51.91	-13.00	-38.91	-39.14	-12.77	Peak
3	2792.800	-55.98	-13.00	-42.98	-45.60	-10.38	Peak
4	3491.000	-50.64	-13.00	-37.64	-42.41	-8.23	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

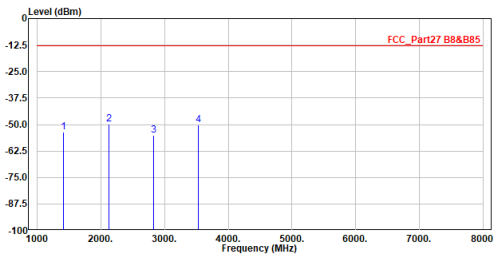
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band85_CH134092
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1414.000	-51.05	-13.00	-38.05	-35.47	-15.58	Peak
2	2121.000	-54.40	-13.00	-41.40	-41.71	-12.69	Peak
3	2828.000	-55.41	-13.00	-42.41	-45.16	-10.25	Peak
4	3535.000	-49.64	-13.00	-36.64	-41.61	-8.03	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

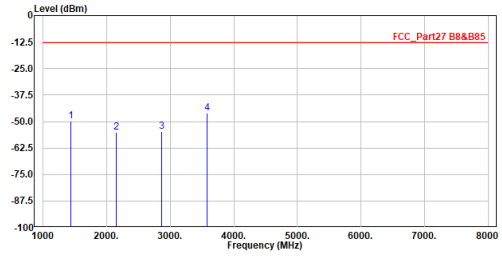
Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band85_CH134092
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1414.000	-53.41	-13.00	-40.41	-37.83	-15.58	Peak
2	2121.000	-49.96	-13.00	-36.96	-37.27	-12.69	Peak
3	2828.000	-55.23	-13.00	-42.23	-44.98	-10.25	Peak
4	3535.000	-50.27	-13.00	-37.27	-42.24	-8.03	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

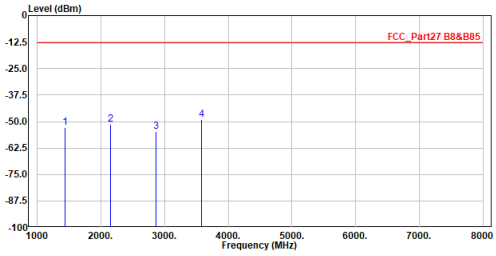
Site :HC-CB02
Condition :3m Horizontal
Mode :NB-IOT_Band85_CH134180
Test By :Luffy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1431.600	-49.82	-13.00	-36.82	-34.30	-15.52	Peak
2	2147.400	-55.26	-13.00	-42.26	-42.65	-12.61	Peak
3	2863.200	-54.75	-13.00	-41.75	-44.64	-10.11	Peak
4	3579.000	-45.93	-13.00	-32.93	-38.11	-7.82	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :NB-IOT_Band85_CH134180
Test By :Luffy

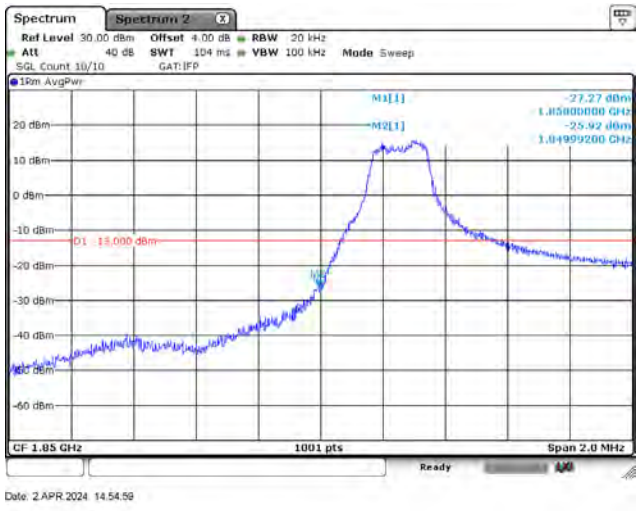
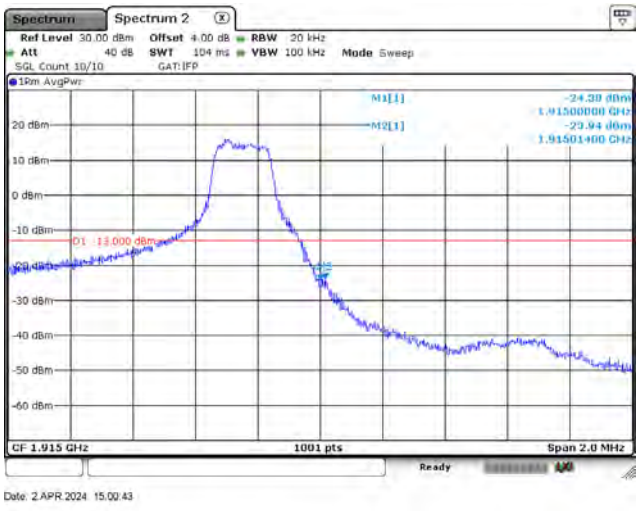
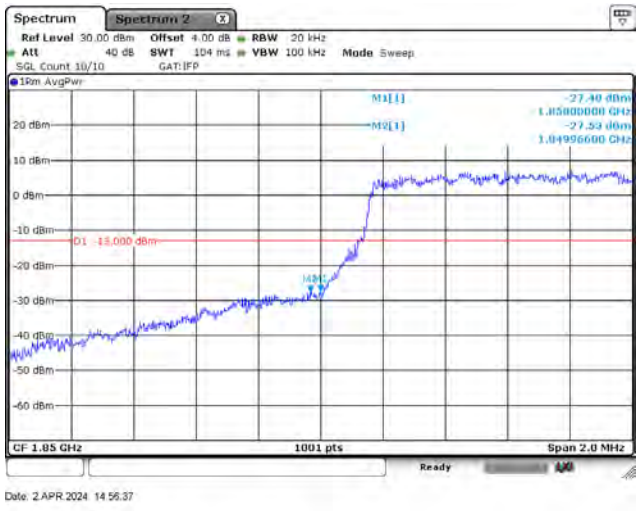
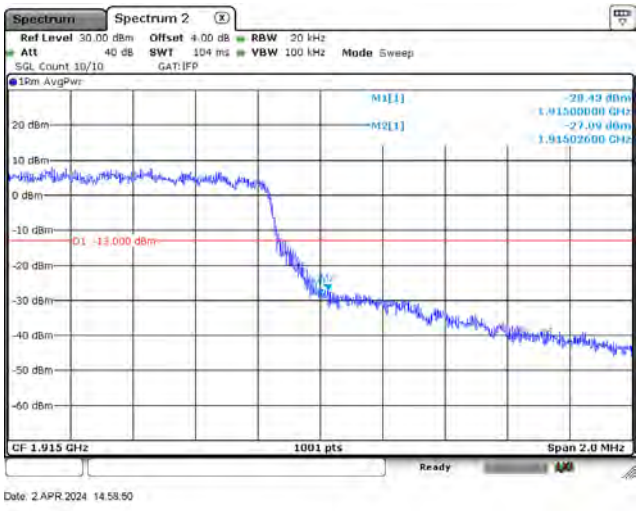
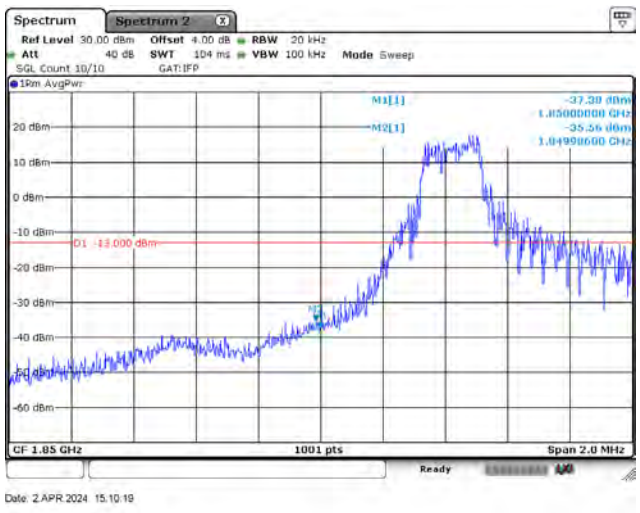
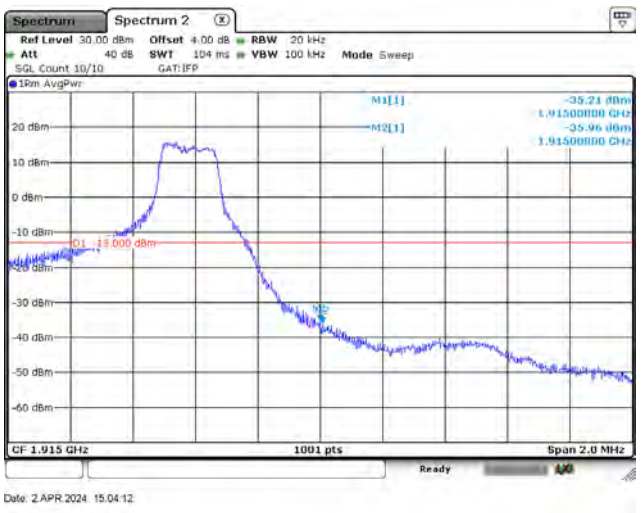


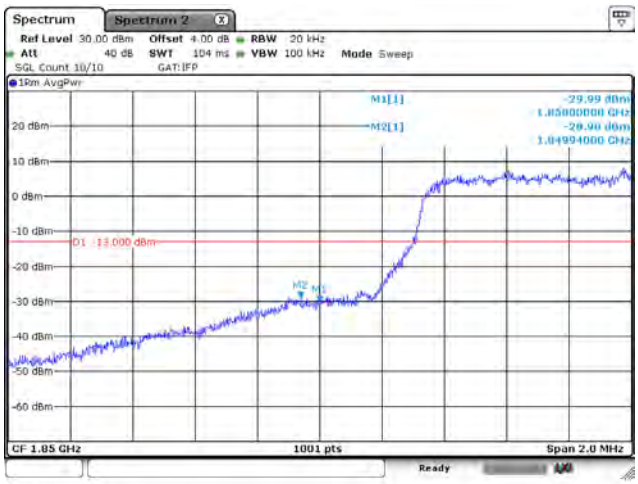
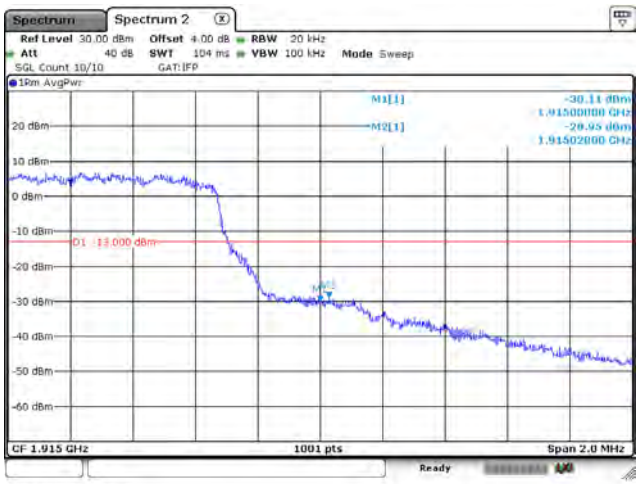
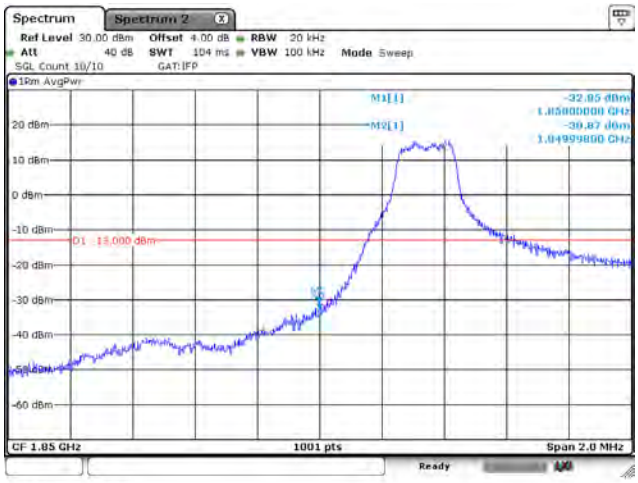
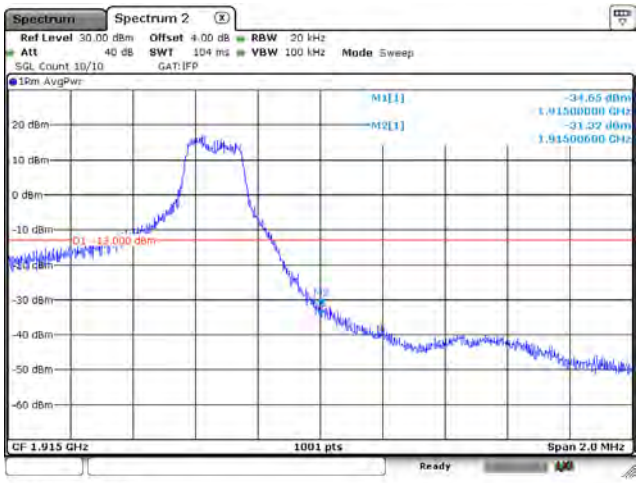
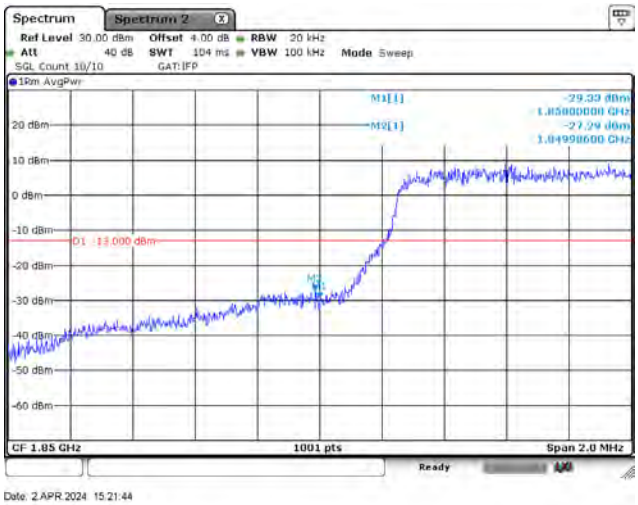
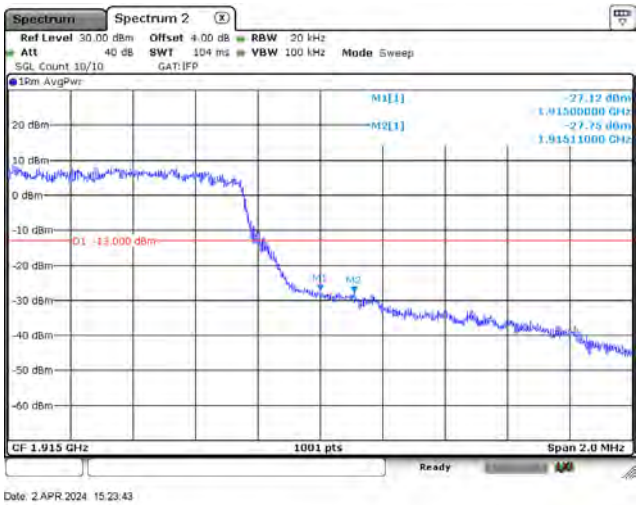
No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1431.600	-52.95	-13.00	-39.95	-37.43	-15.52	Peak
2	2147.400	-51.41	-13.00	-38.41	-38.80	-12.61	Peak
3	2863.200	-54.72	-13.00	-41.72	-44.61	-10.11	Peak
4	3579.000	-48.94	-13.00	-35.94	-41.12	-7.82	Peak

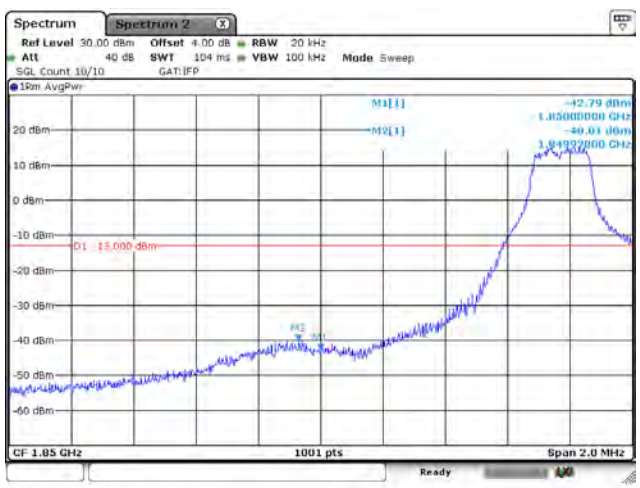
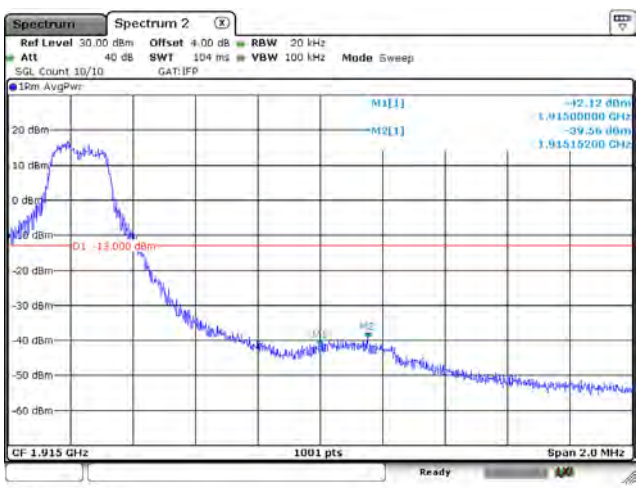
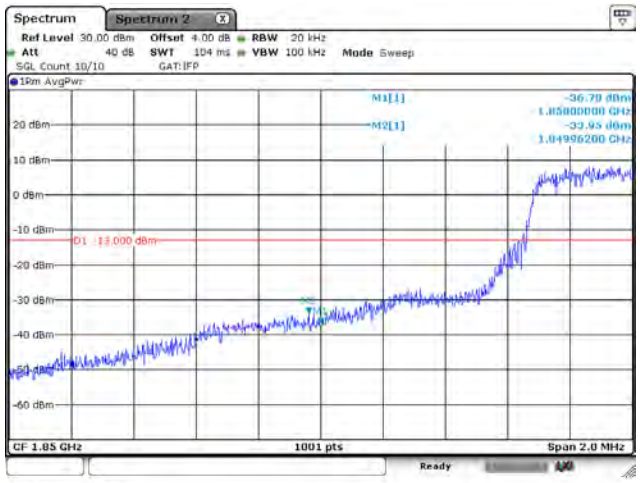
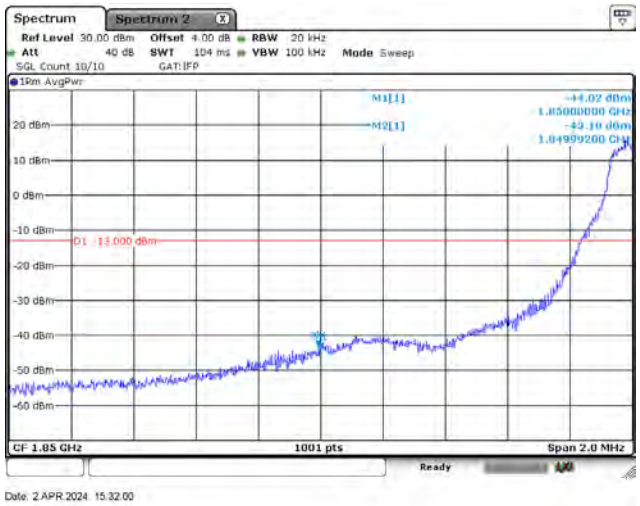
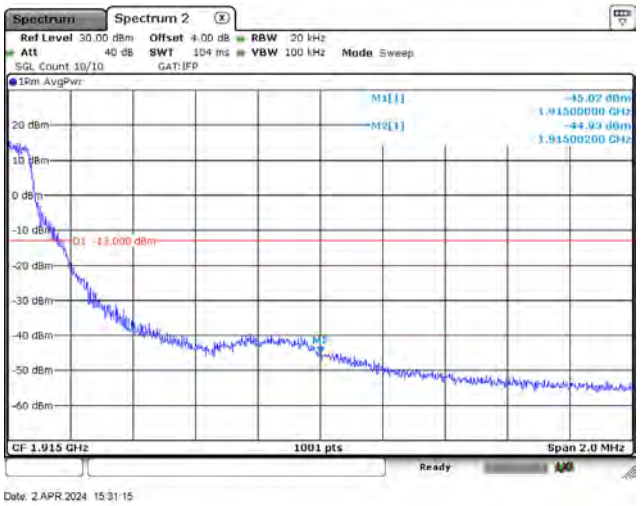
Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

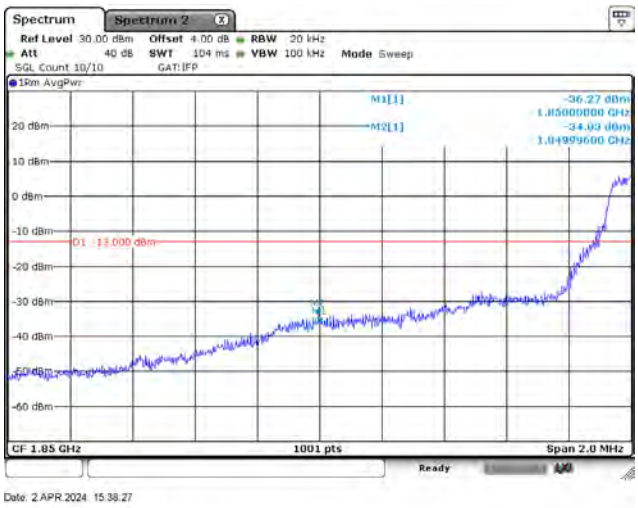
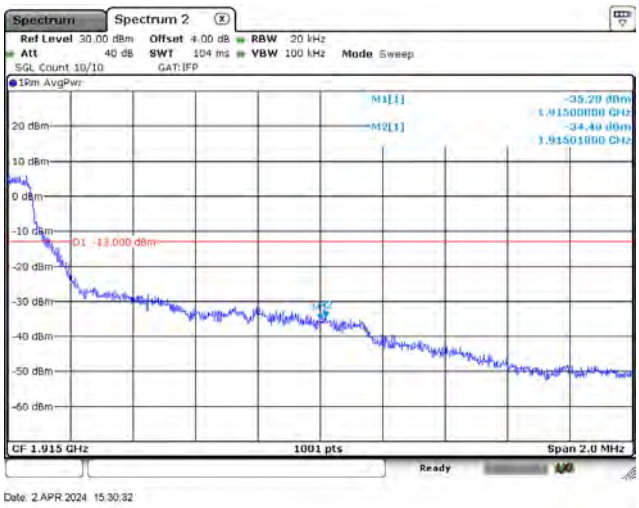
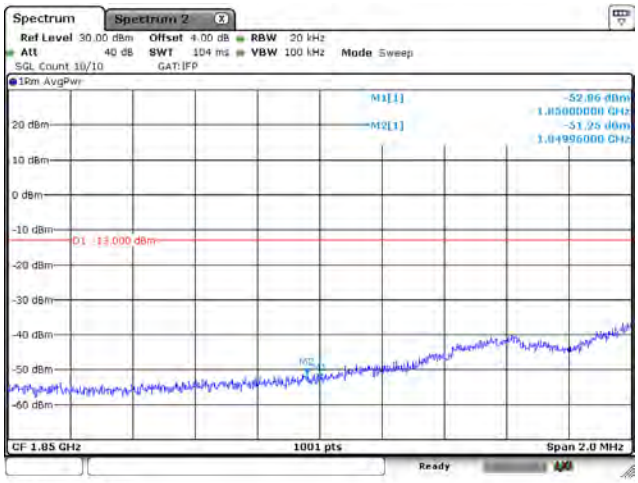
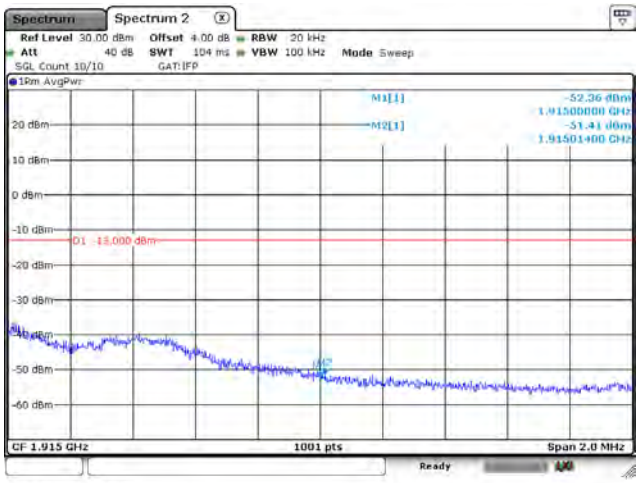
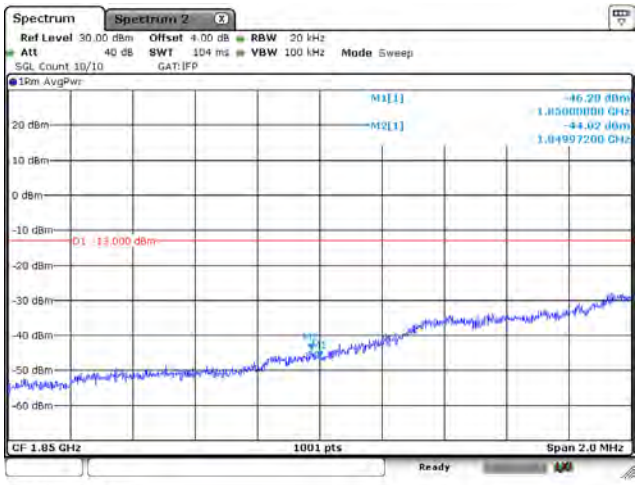
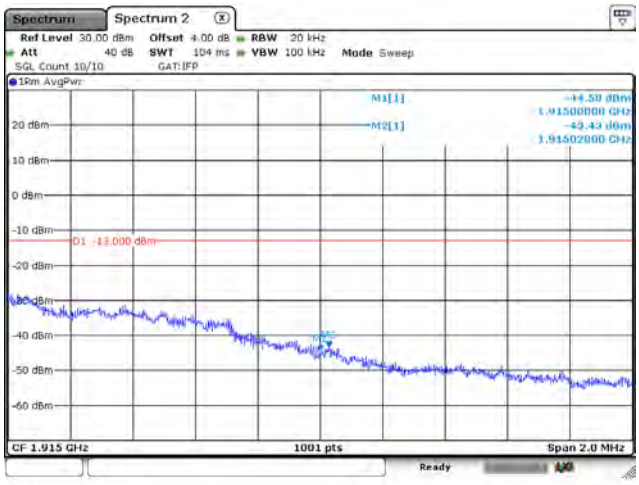
Appendix E. Test Result of Conducted Band Edge

Mode 1: LTE Cat-M1 Band 2 / 25

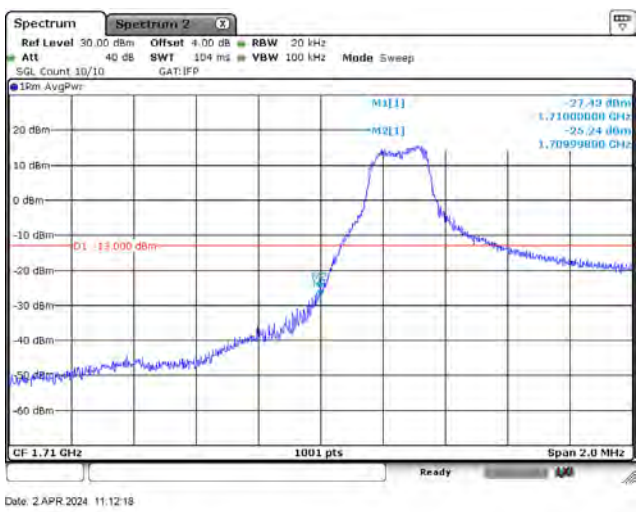
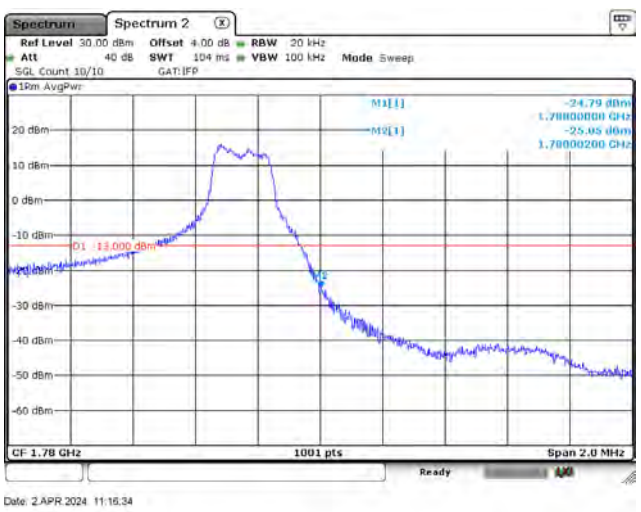
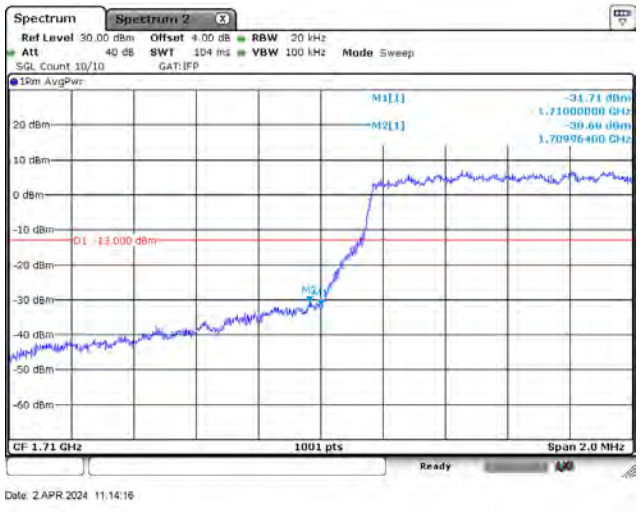
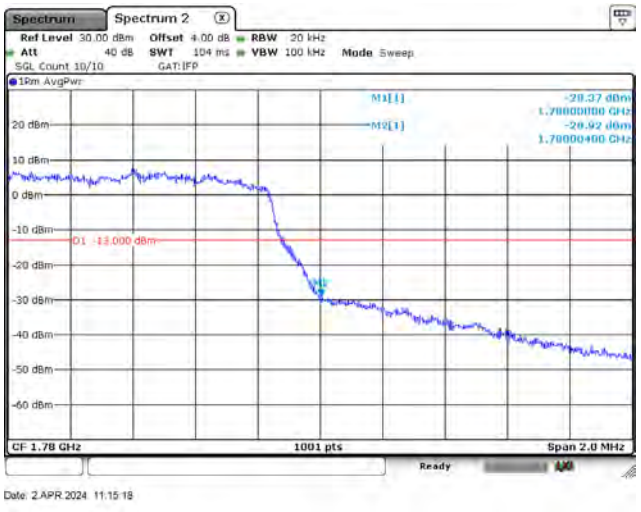
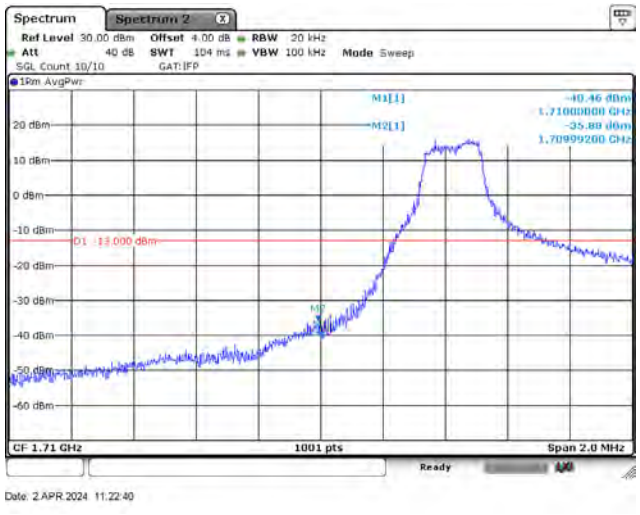
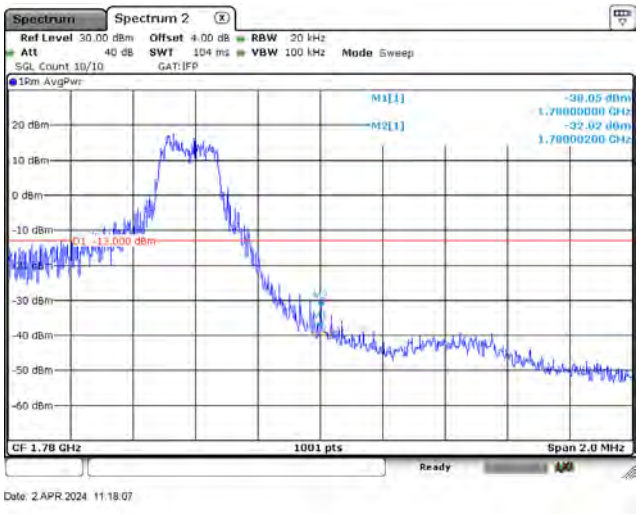
CH26047_1.4M_QPSK_1RB0	CH26683_1.4M_QPSK_1RB5
	
CH26047_1.4M_QPSK _6RB0	CH26683_1.4M_QPSK _6RB0
	
CH26055_3M_QPSK _1RB0	CH26675_3M_QPSK _1RB5
	

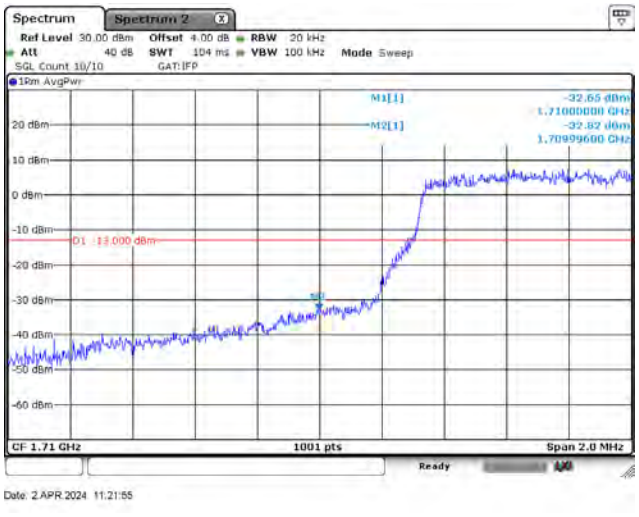
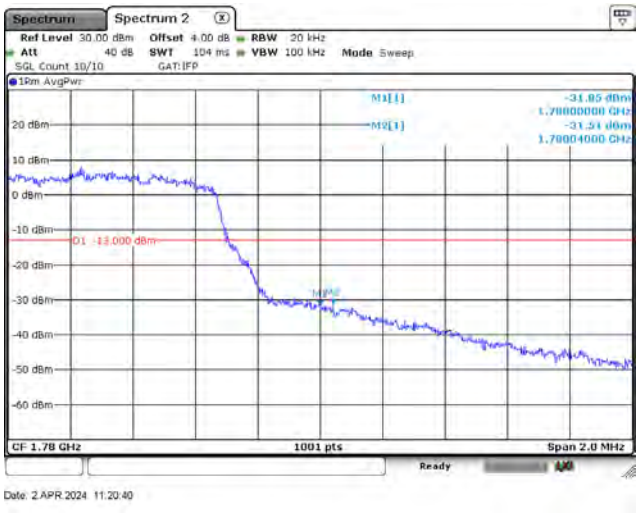
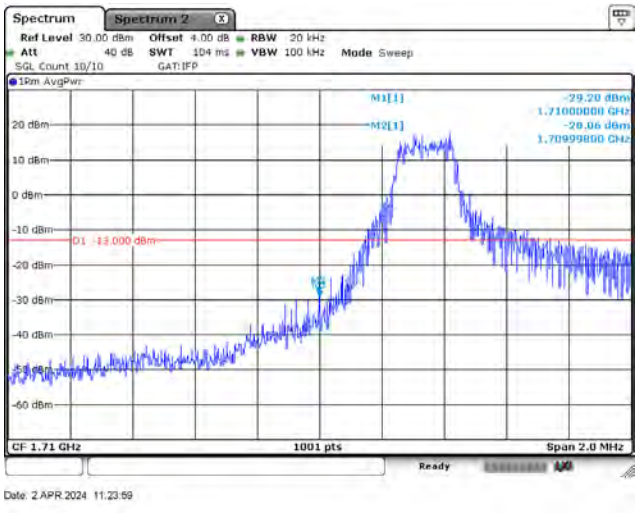
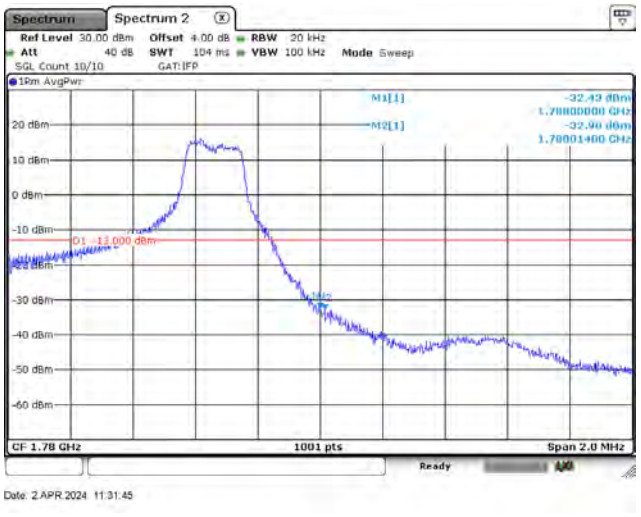
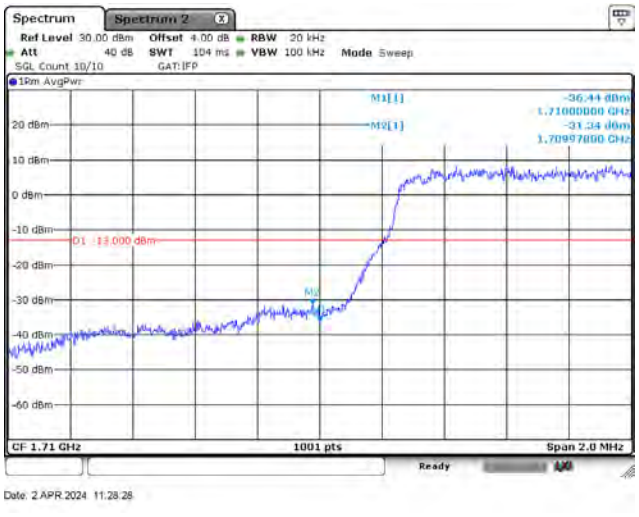
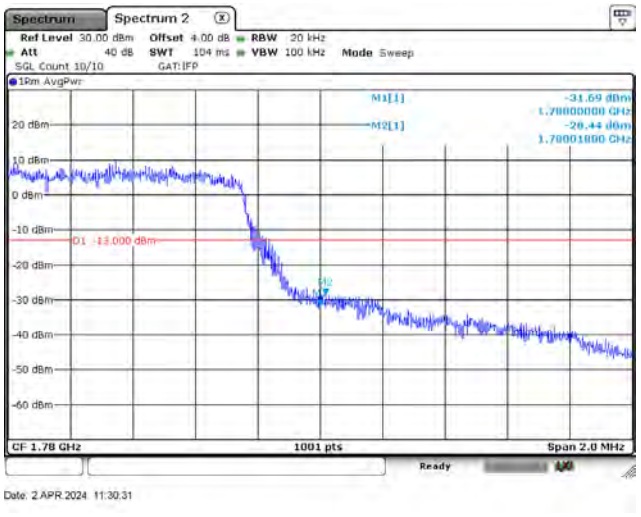
CH26055_3M_QPSK _6RB0	CH26675_3M_QPSK _6RB0
	
CH26065_5M_QPSK _1RB0	CH26665_5M_QPSK _1RB5
	
CH26065_5M_QPSK _6RB0	CH26665_5M_QPSK _6RB0
	

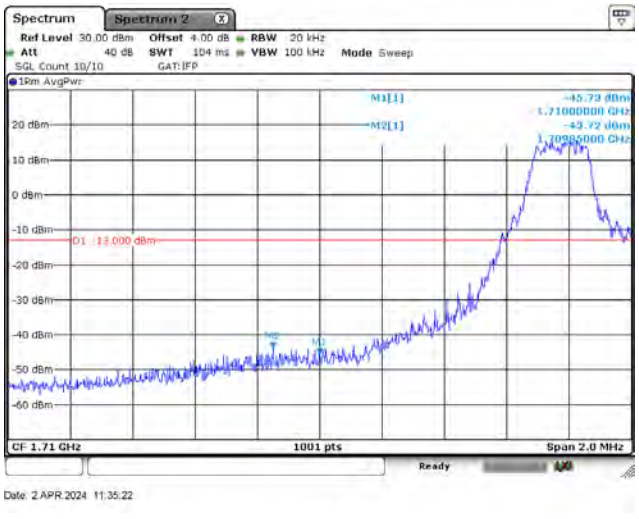
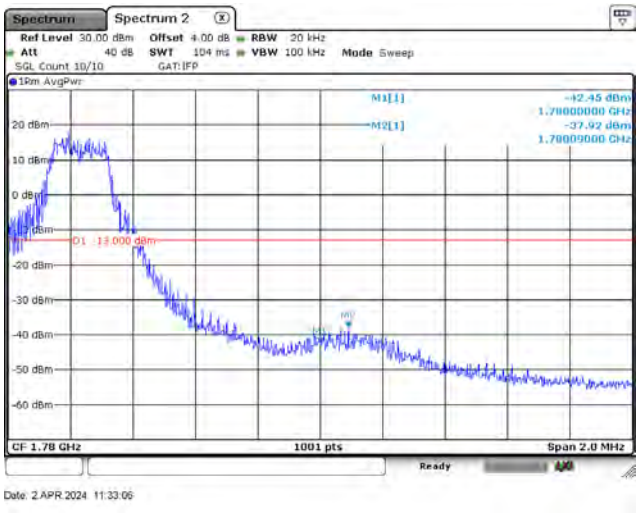
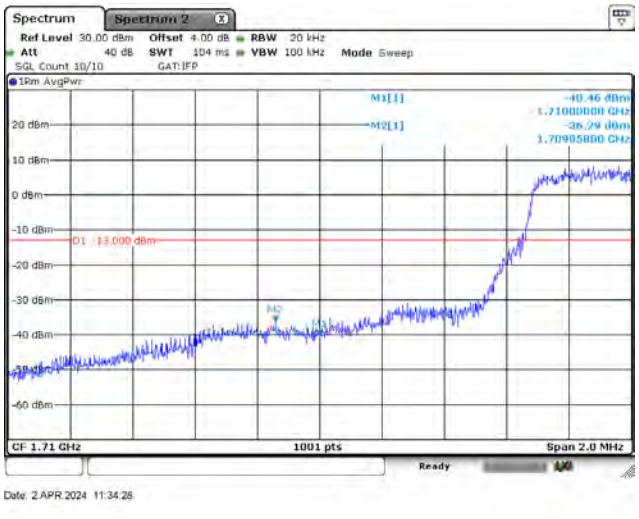
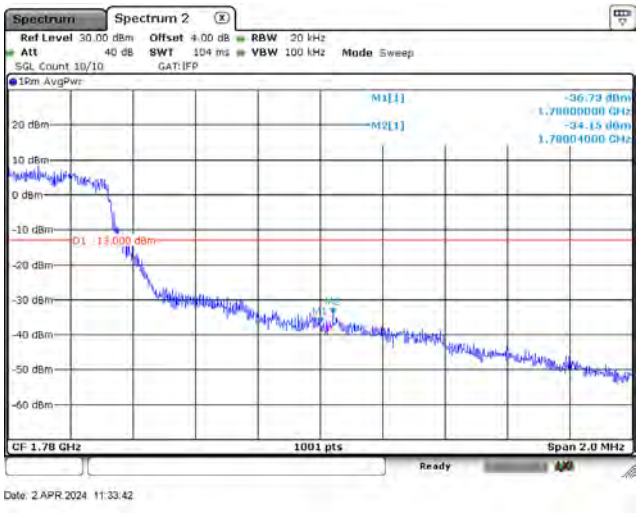
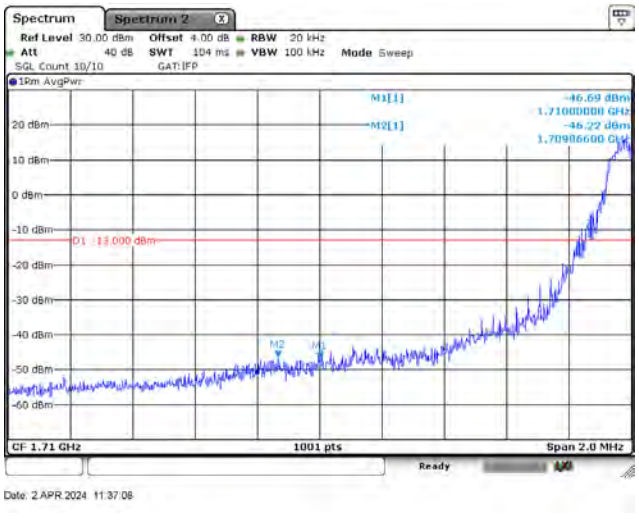
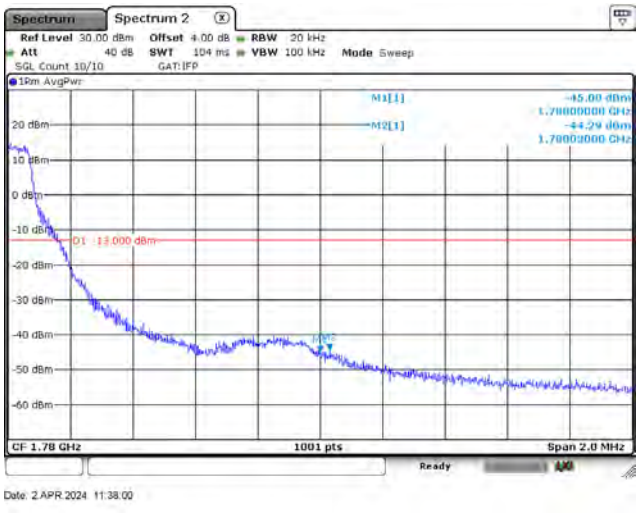
CH26090_10M_QPSK _1RB0	CH26640_10M_QPSK _1RB5
	
CH26090_10M_QPSK _6RB0	CH26640_10M_QPSK _6RB0
	
CH26115_10M_QPSK _1RB0	CH26615_10M_QPSK _1RB5
	

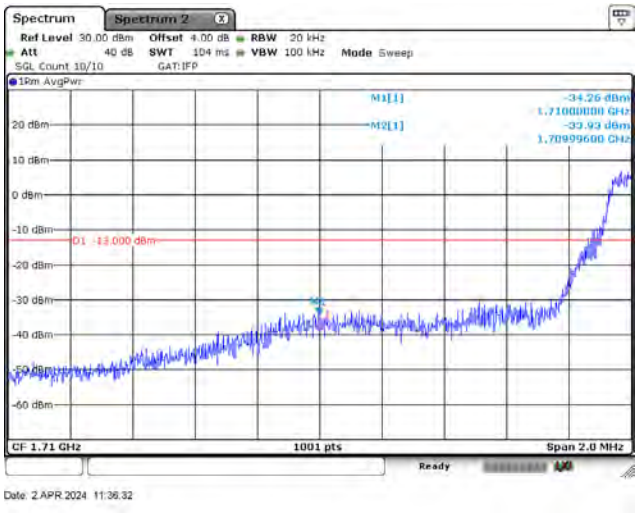
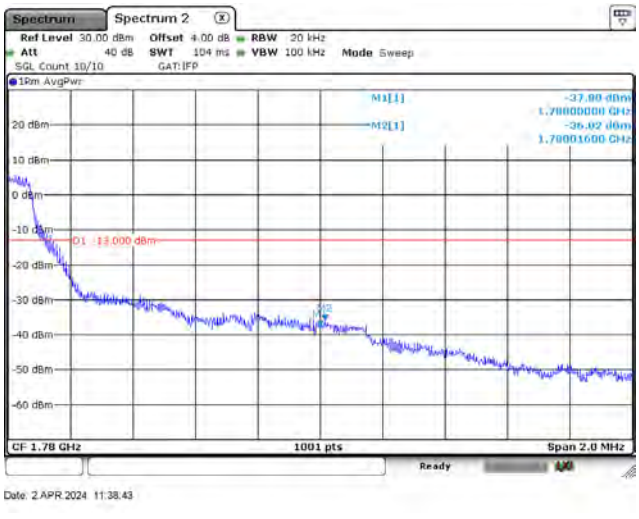
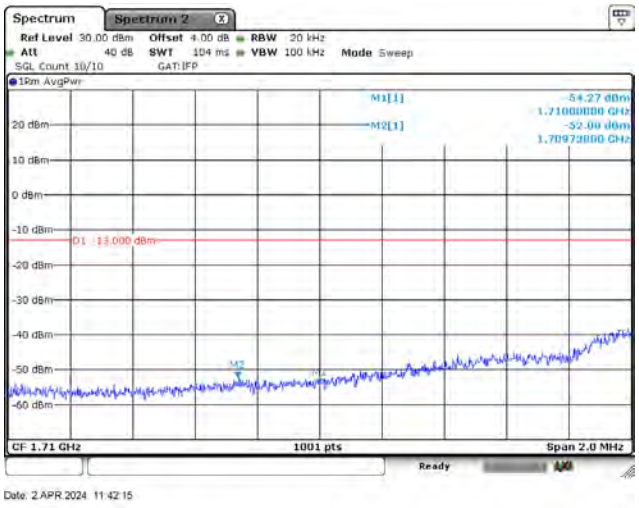
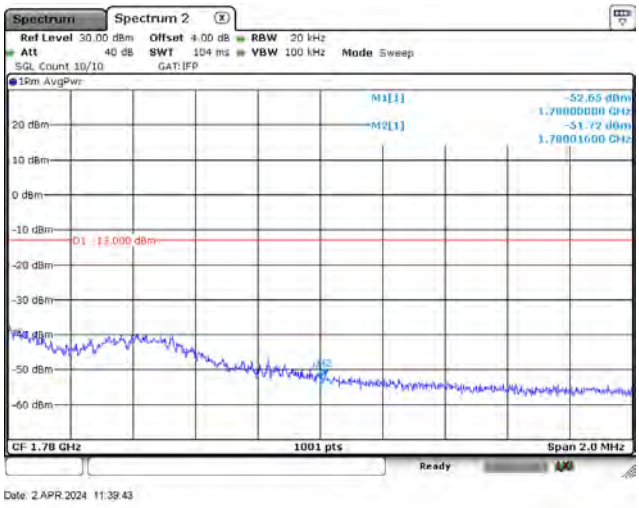
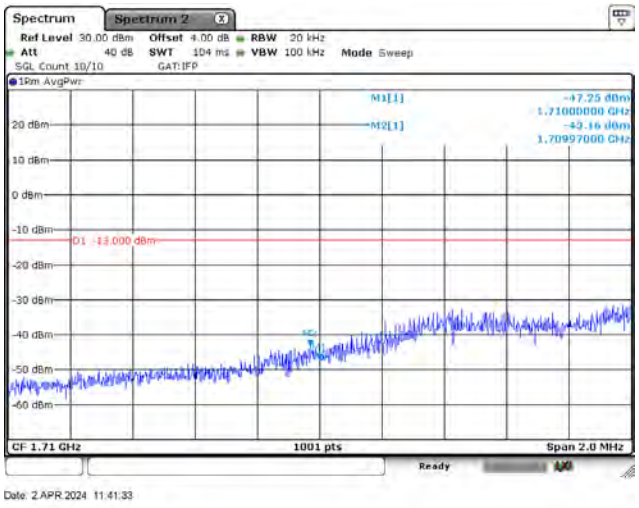
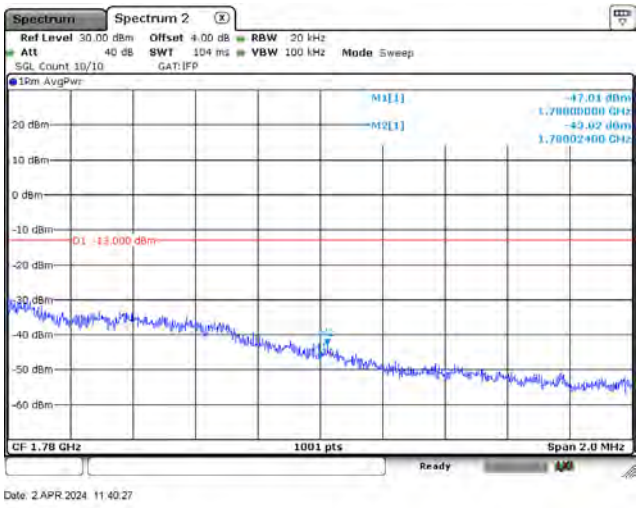
CH26115_10M_QPSK _6RB0	CH26615_10M_QPSK _6RB0
	
CH26140_15M_QPSK _1RB0	CH26590_15M_QPSK _1RB5
	
CH26140_15M_QPSK _6RB0	CH26590_15M_QPSK _6RB0
	

Mode 2: LTE Cat-M1 Band 4 / 66

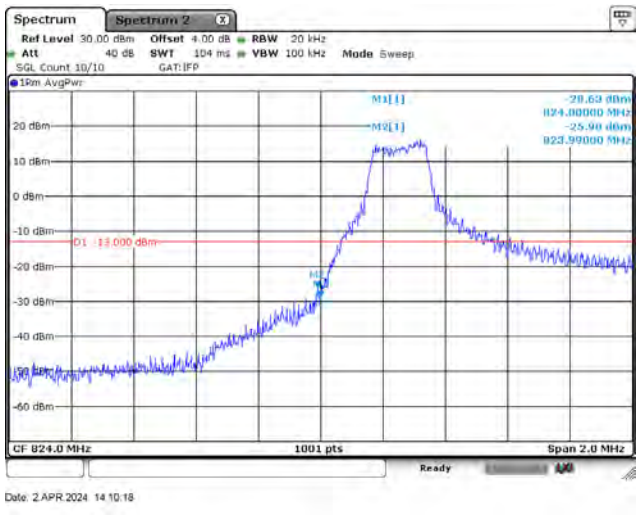
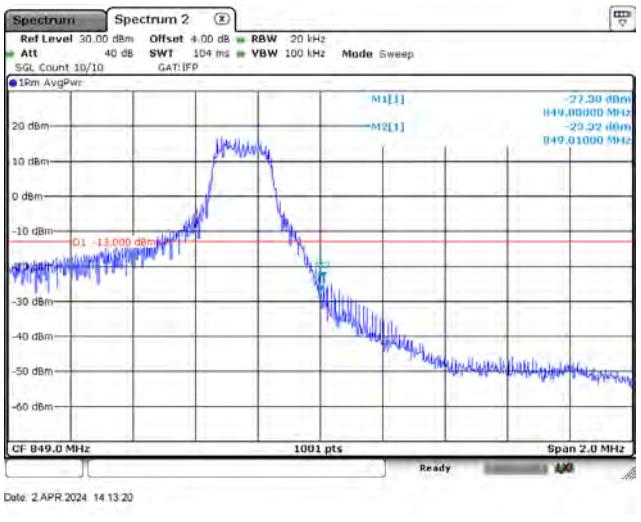
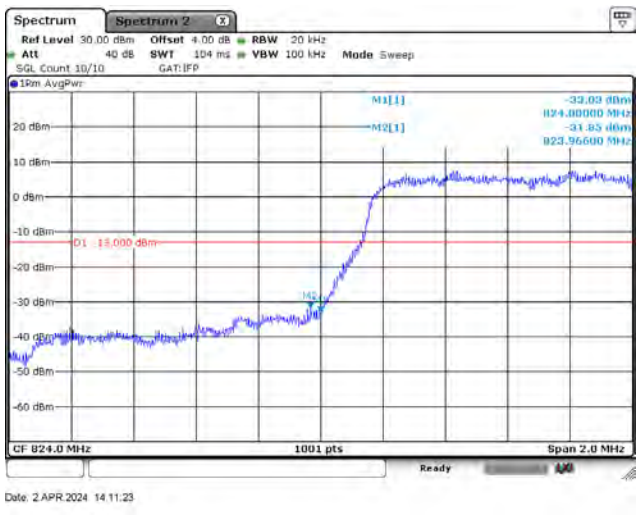
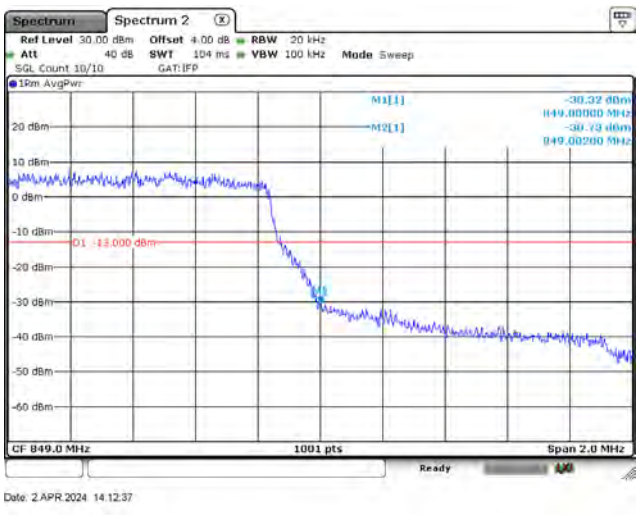
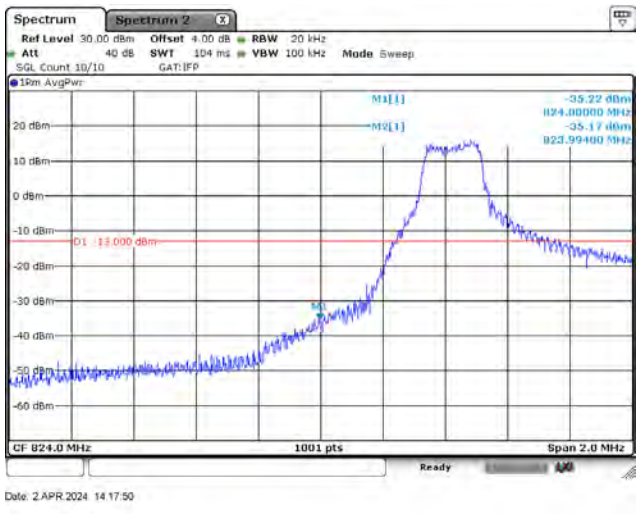
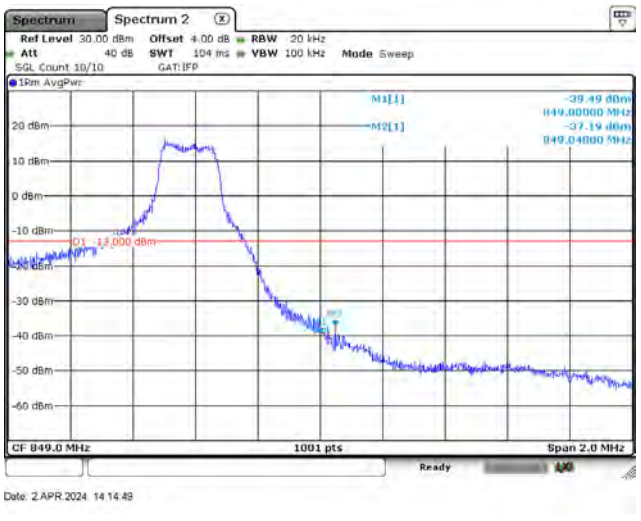
CH131979_1.4M_QPSK_1RB0	CH132665_1.4M_QPSK_1RB5
	
CH131979_1.4M_QPSK_6RB0	CH132665_1.4M_QPSK_6RB0
	
CH131987_3M_QPSK _1RB0	CH132657_3M_QPSK _1RB5
	

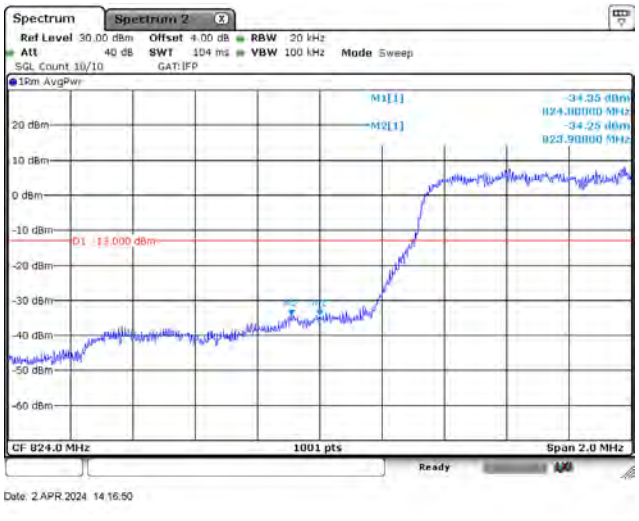
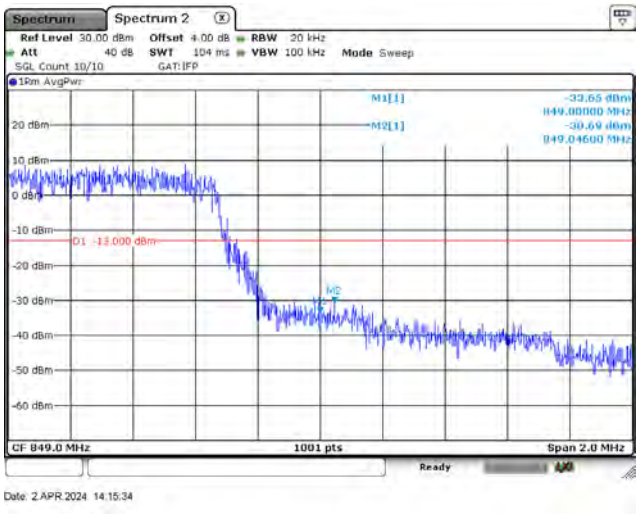
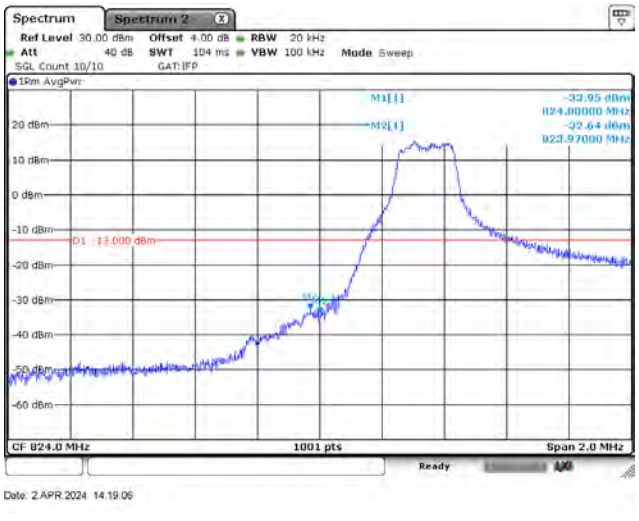
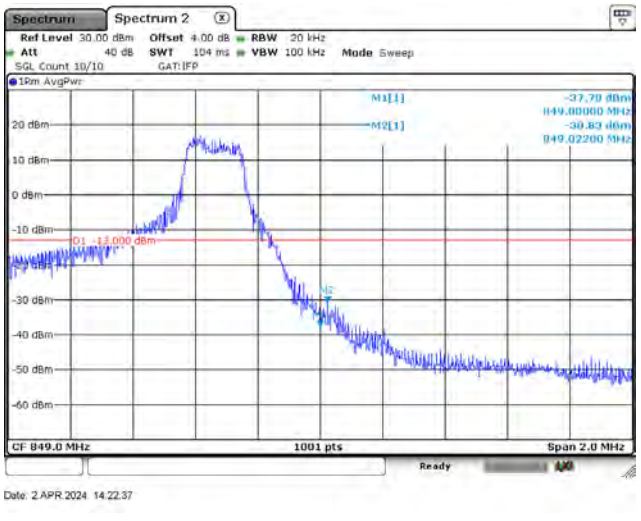
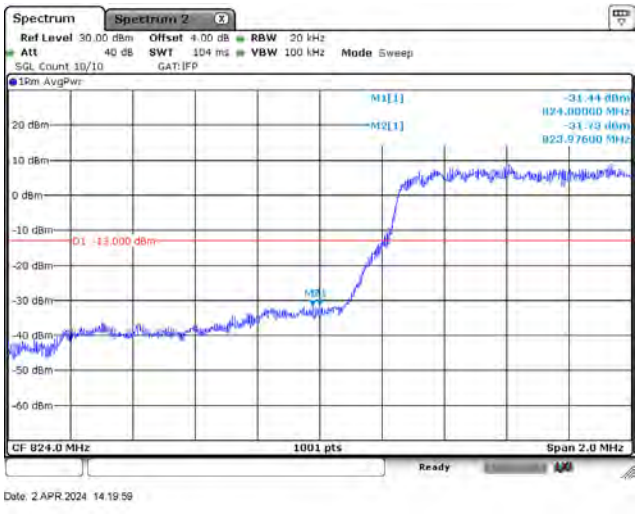
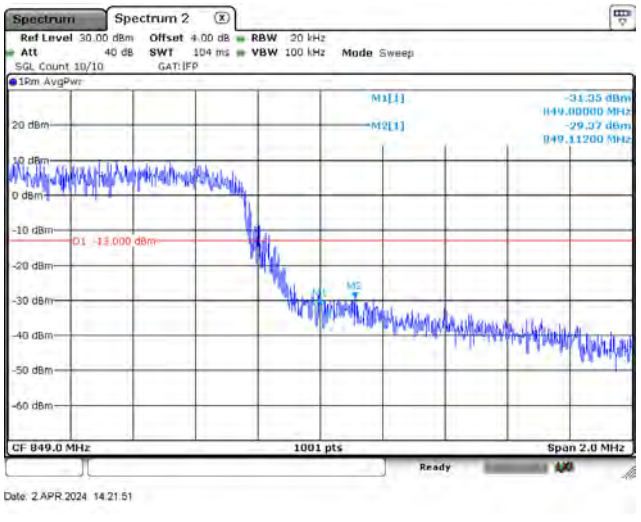
CH131987_3M_QPSK _6RB0	CH132657_3M_QPSK _6RB0
	
CH131997_5M_QPSK _1RB0	CH132647_5M_QPSK _1RB5
	
CH131997_5M_QPSK _6RB0	CH132647_5M_QPSK _6RB0
	

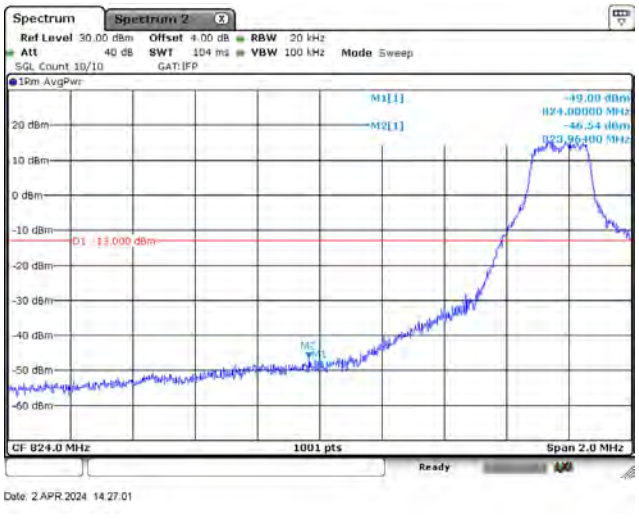
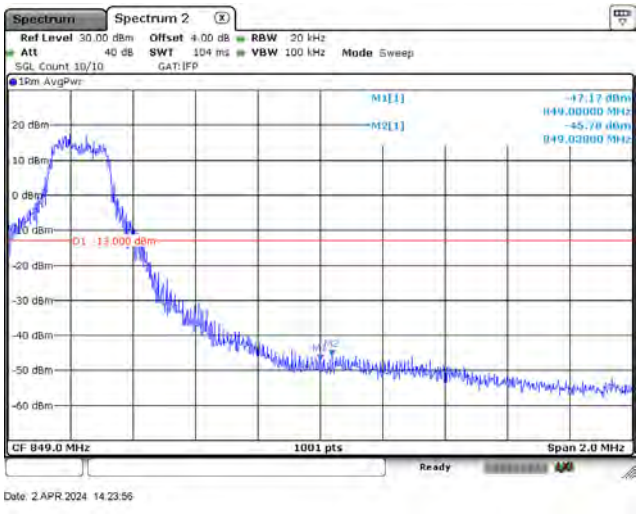
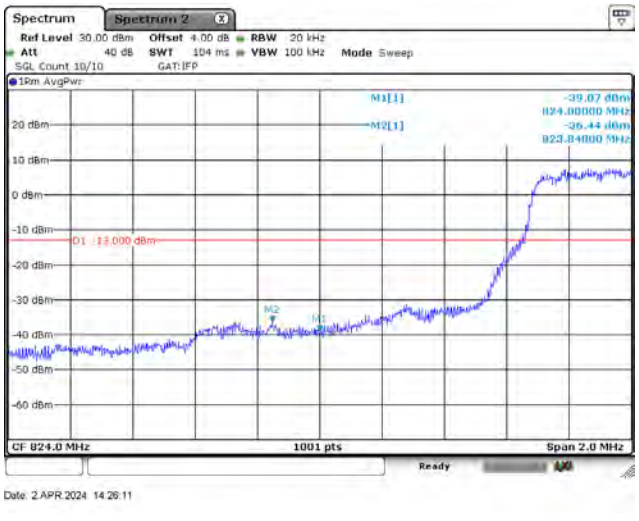
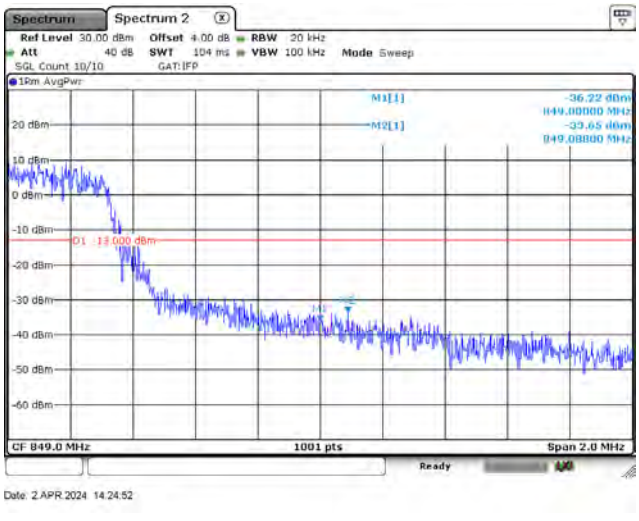
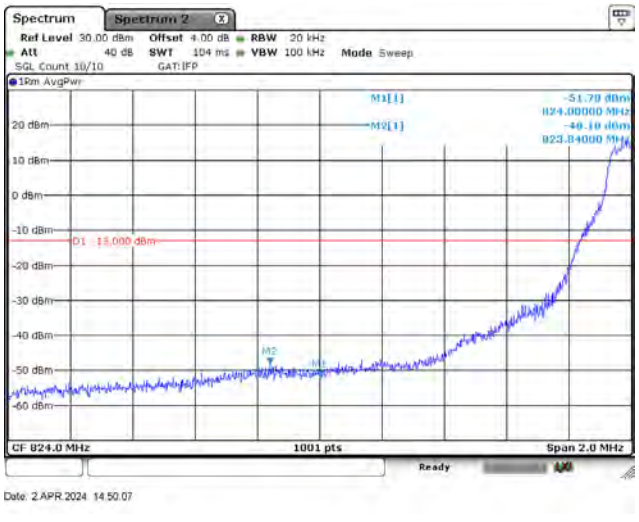
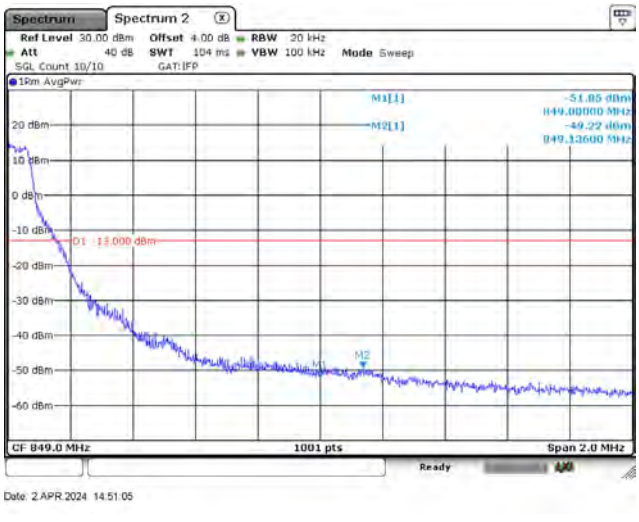
CH132022_10M_QPSK _1RB0	CH132622_10M_QPSK _1RB5
	
CH132022_10M_QPSK _6RB0	CH132622_10M_QPSK _6RB0
	
CH132047_15M_QPSK _1RB0	CH1325977_15M_QPSK _1RB5
	

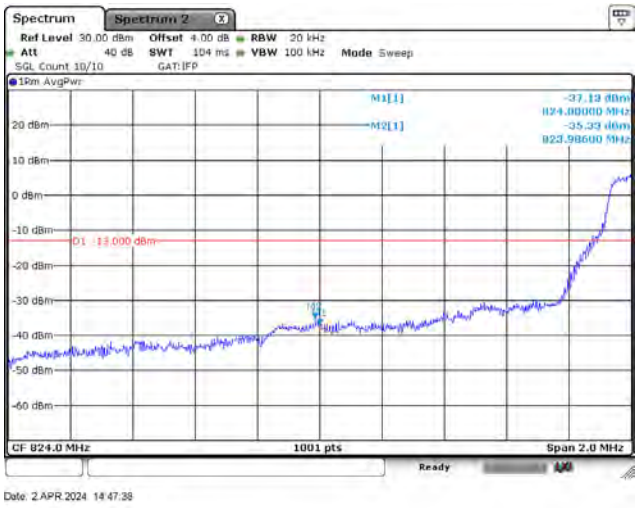
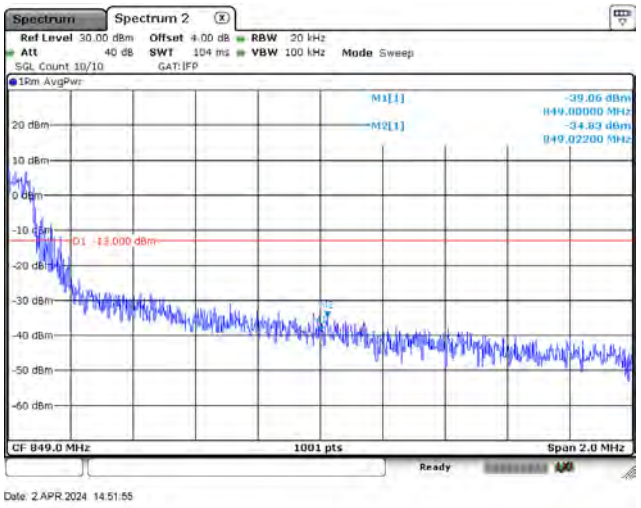
CH1320477_15M_QPSK _6RB0	CH1325977_15M_QPSK _6RB0
	
CH132072_20M_QPSK _1RB0	CH132572_20M_QPSK _1RB5
	
CH132072_20M_QPSK _6RB0	CH132572_20M_QPSK _6RB0
	

Mode 3: LTE Cat-M1 Band 5 / 26 (Part 22)

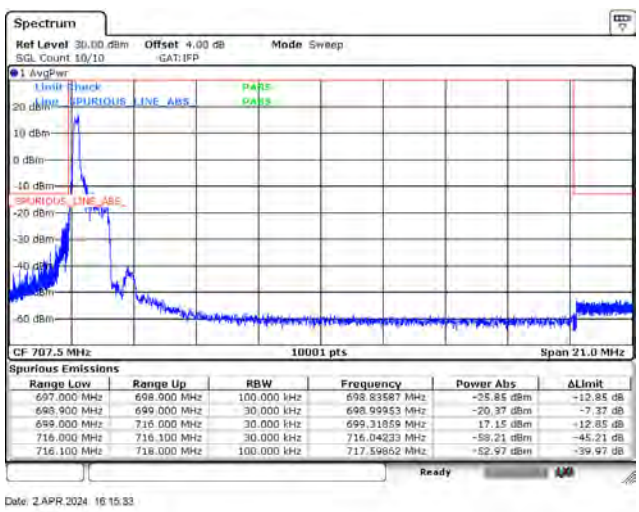
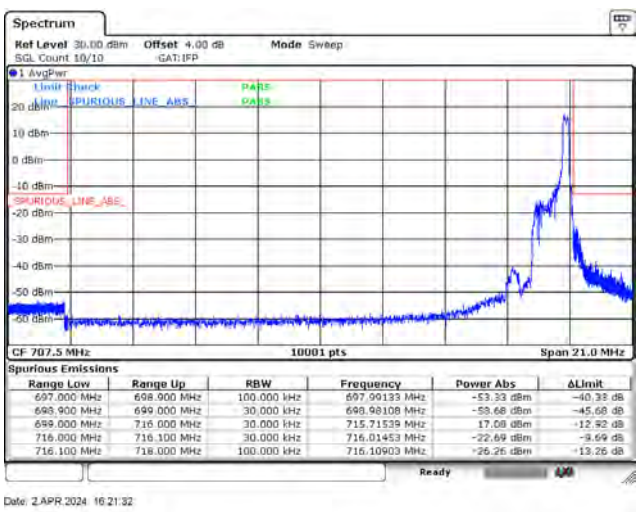
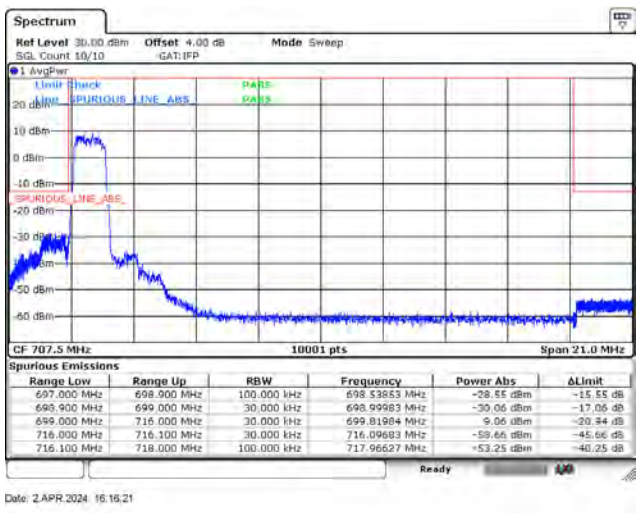
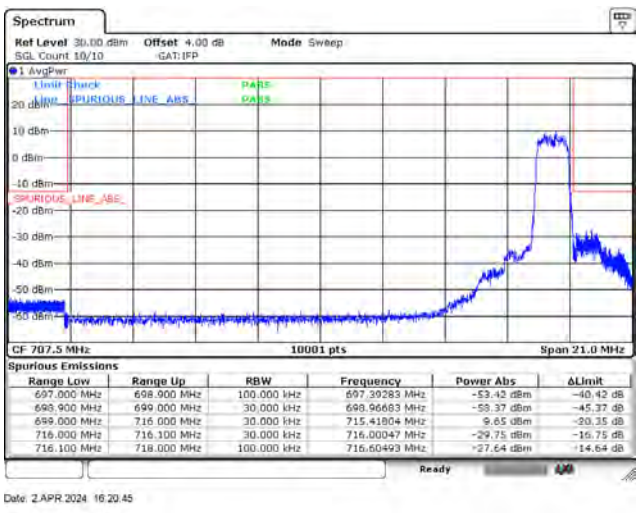
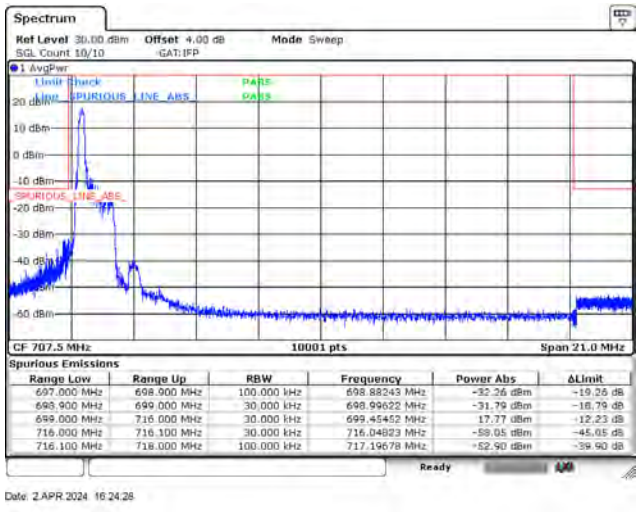
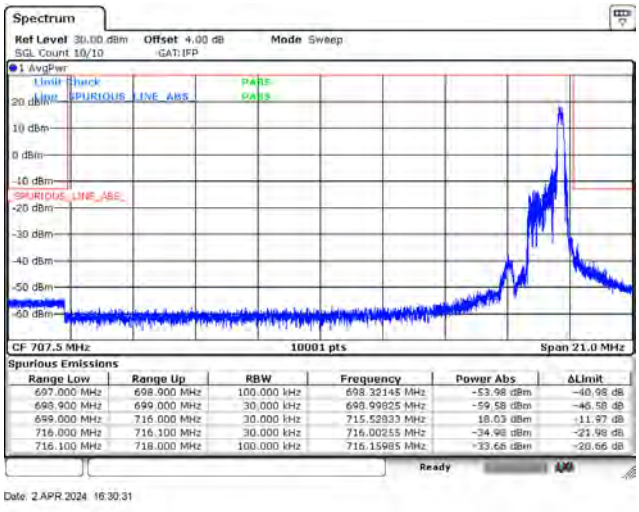
CH26797_1.4M_QPSK__1RB0	CH27033_1.4M_QPSK _1RB5
	
CH26797_1.4M_QPSK _6RB0	CH27033_1.4M_QPSK _6RB0
	
CH26805 _3M_QPSK_1RB0	CH27025 _3M_QPSK_1RB5
	

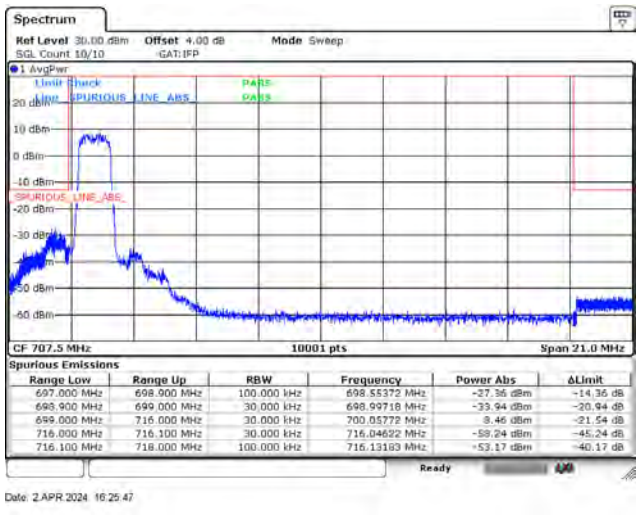
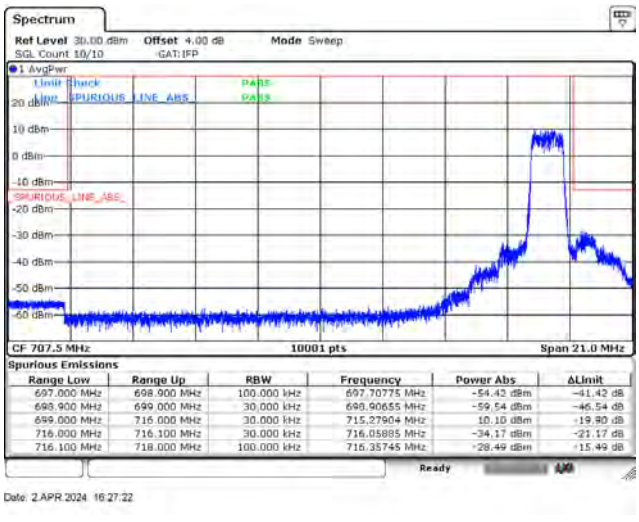
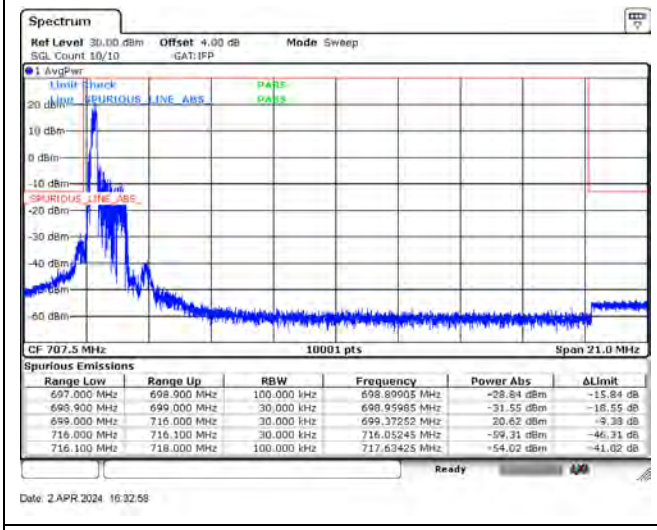
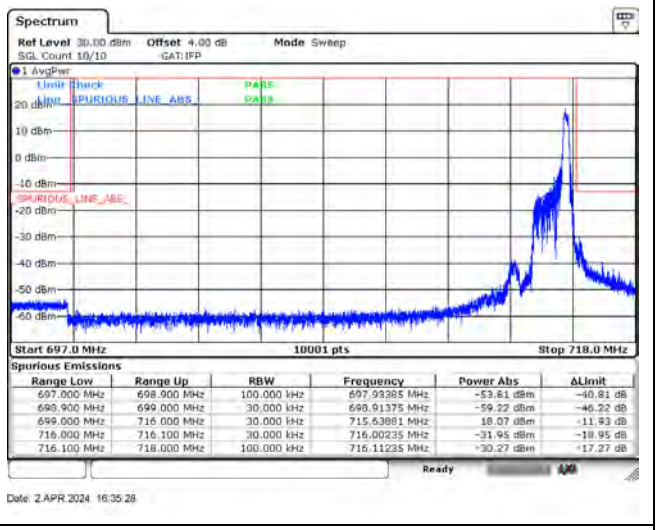
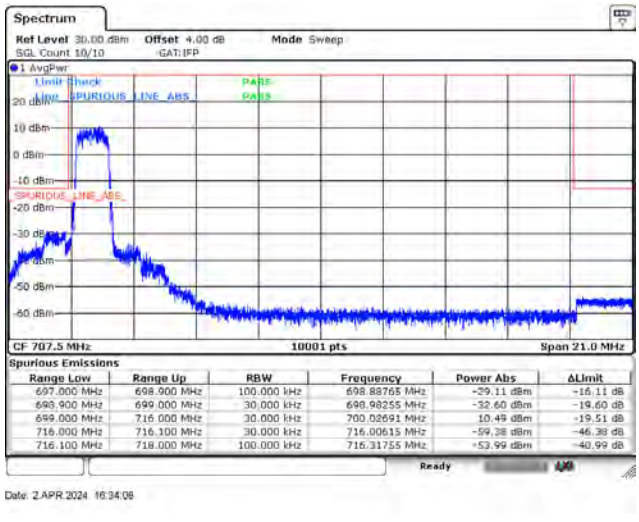
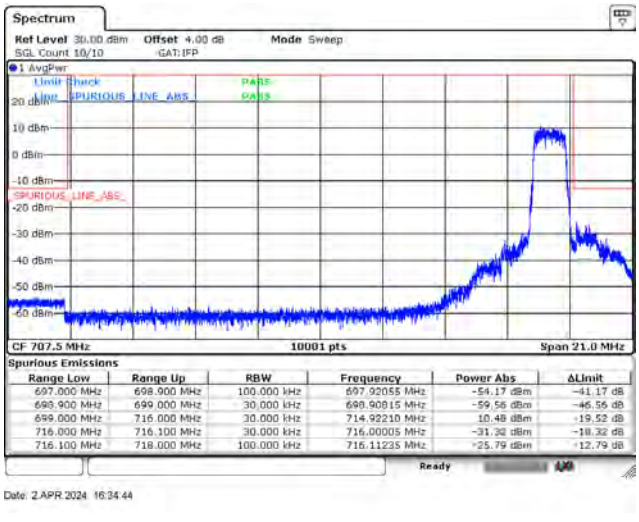
CH26805_3M_QPSK _6RB0	CH27025_3M_QPSK _6RB0
	
CH26815_5M_QPSK _1RB0	CH27015_5M_QPSK _1RB5
	
CH26815_5M_QPSK _6RB0	CH27015_5M_QPSK _6RB0
	

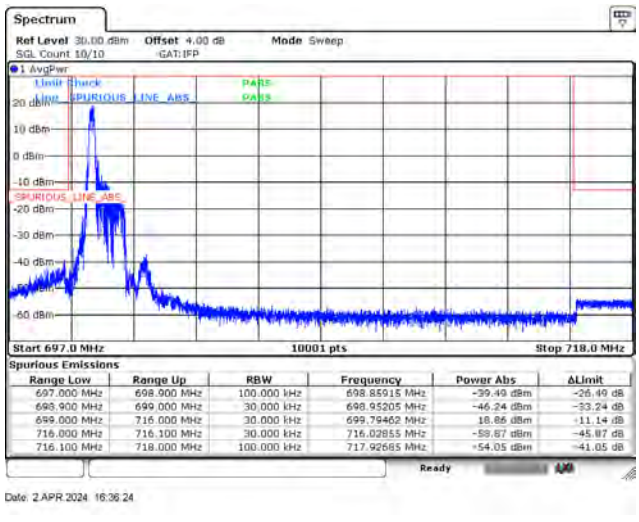
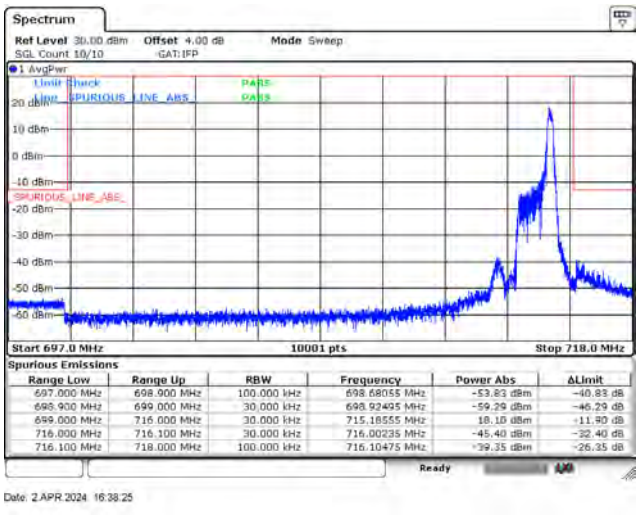
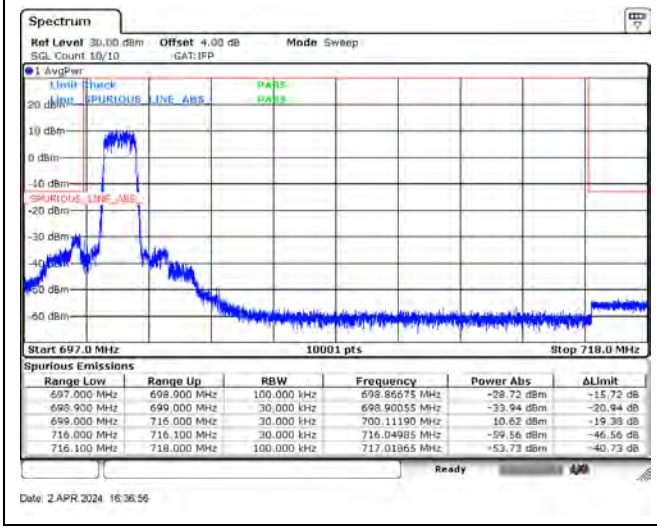
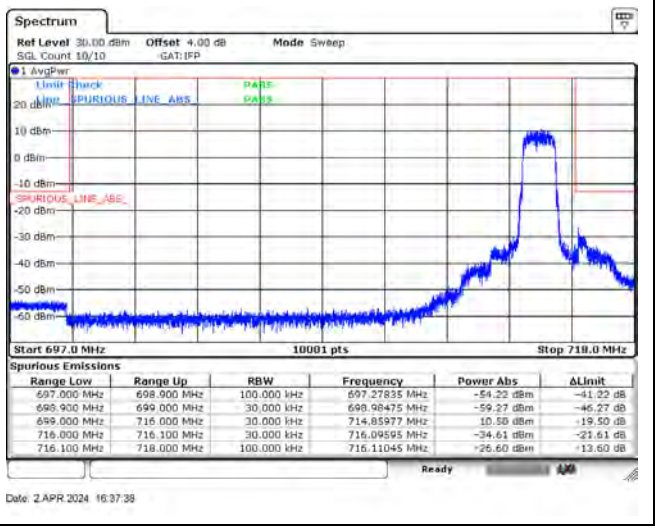
CH26840_10M_QPSK _1RB0	CH26990_10M_QPSK _1RB5
	
CH26840_10M_QPSK _6RB0	CH26990_10M_QPSK _6RB0
	
CH26865_15M_QPSK _1RB0	CH26965_15M_QPSK _1RB5
	

CH26865_15M_QPSK _6RB0	CH26965_15M_QPSK _6RB0
	

Mode 4: LTE Cat-M1 Band 12

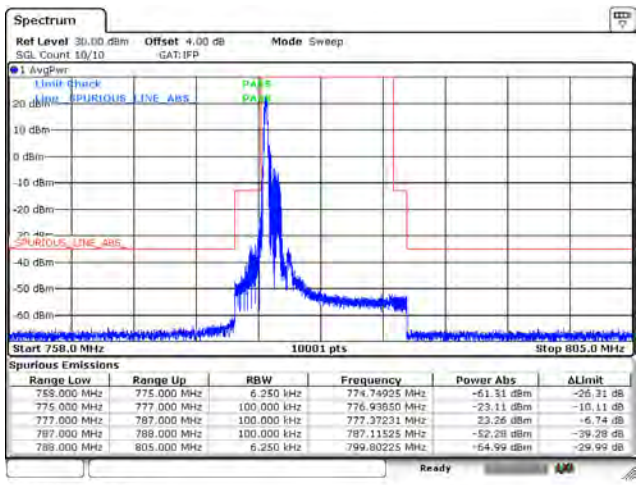
CH23017_1.4M_QPSK _1RB0	CH23173_1.4M_QPSK _1RB5
	
CH23017_1.4M_QPSK _6RB0	CH23173_1.4M_QPSK _6RB0
	
CH23025_3M_QPSK _1RB0	CH23165_3M_QPSK _1RB5
	

CH23025_3M_QPSK _6RB0	CH23165_3M_QPSK _6RB0
	
CH23035_5M_QPSK _1RB0	CH23155_5M_QPSK _1RB5
	
CH23035_5M_QPSK _6RB0	CH23155_5M_QPSK _6RB0
	

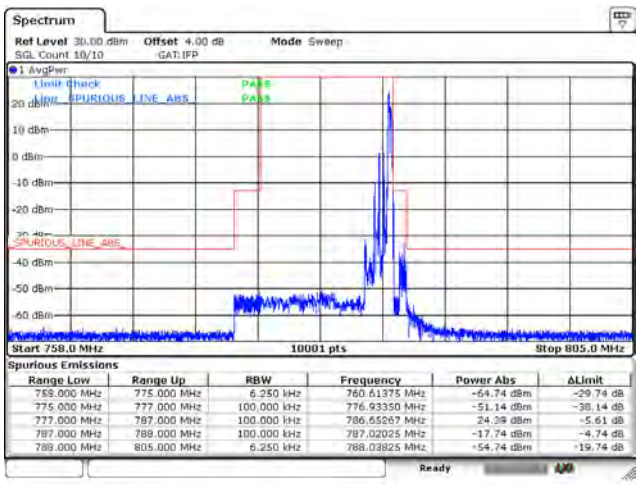
CH23060_10M_QPSK _1RB0	CH23130_10M_QPSK _1RB5
	
CH23060_10M_QPSK _6RB0	CH23130_10M_QPSK _6RB0
	

Mode 5: LTE Cat-M1 Band 13

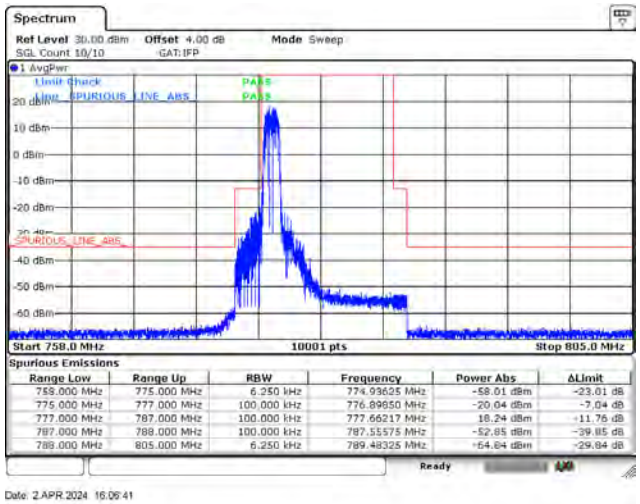
CH23205_5M_QPSK _1RB0



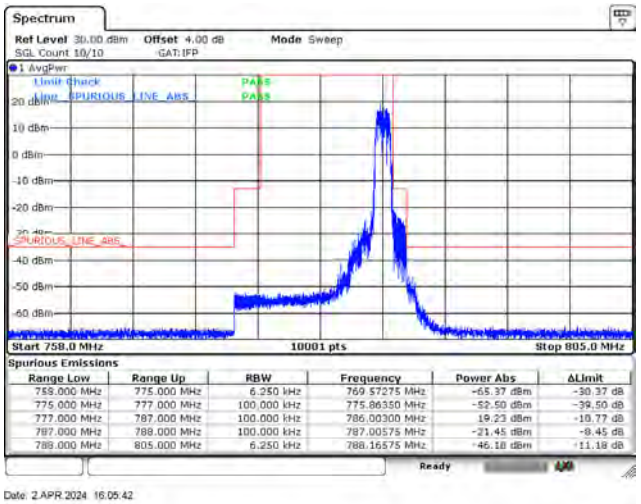
CH23255_5M_QPSK _1RB5



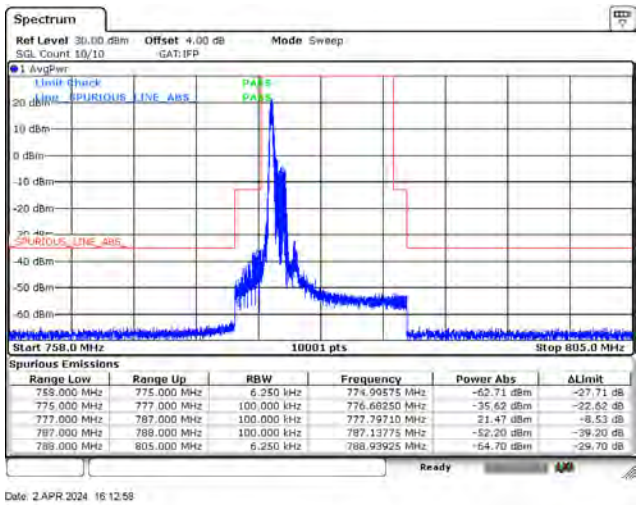
CH23205_5M_QPSK _6RB0



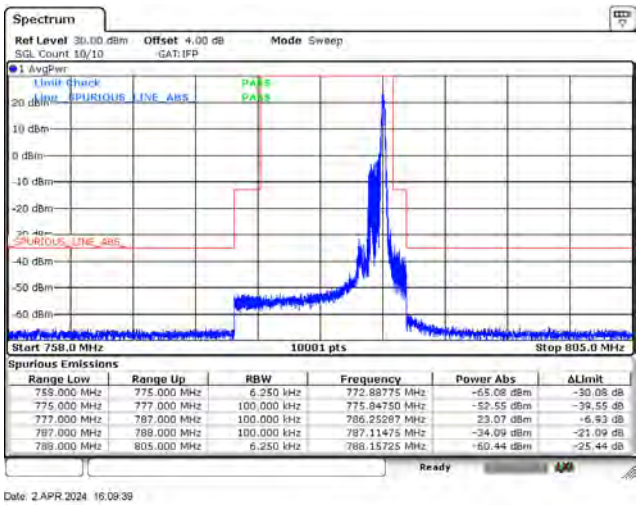
CH23255_5M_QPSK _6RB0

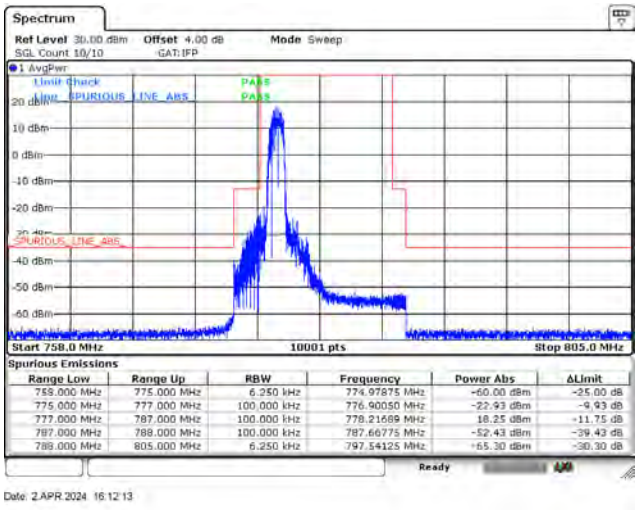
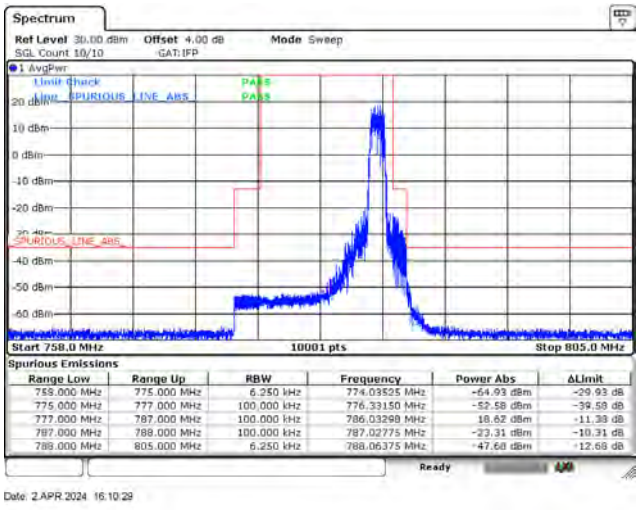


CH23230_10M_QPSK _1RB0_low



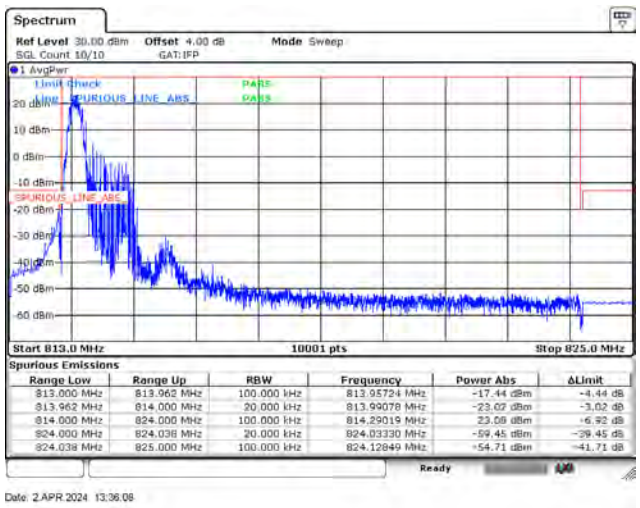
CH23230_10M_QPSK 1RB5_high



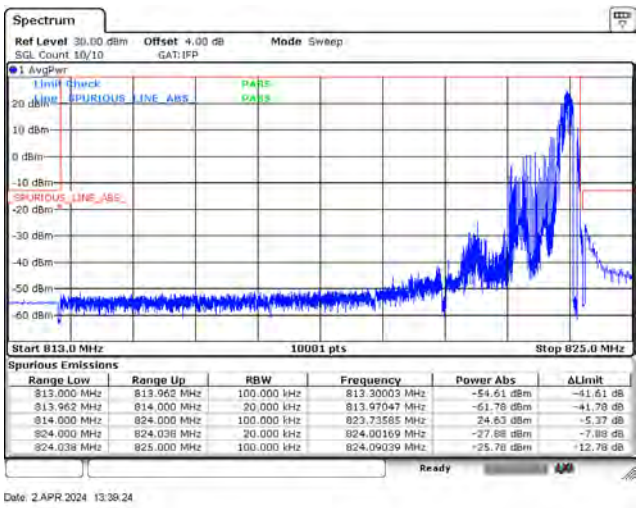
CH23230_10M_QPSK _6RB0	CH23230_10M_QPSK _6RB0
	

Mode 6: LTE Cat-M1 Band 26 (Part 90)

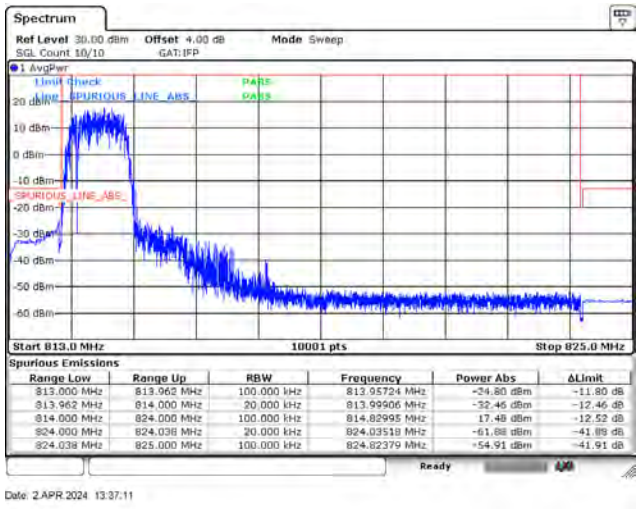
CH26697_1.4M_QPSK _1RB0



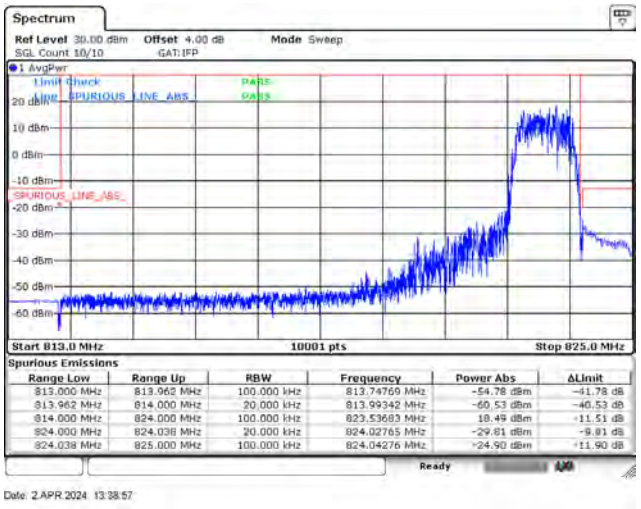
CH26783_1.4M_QPSK _1RB5



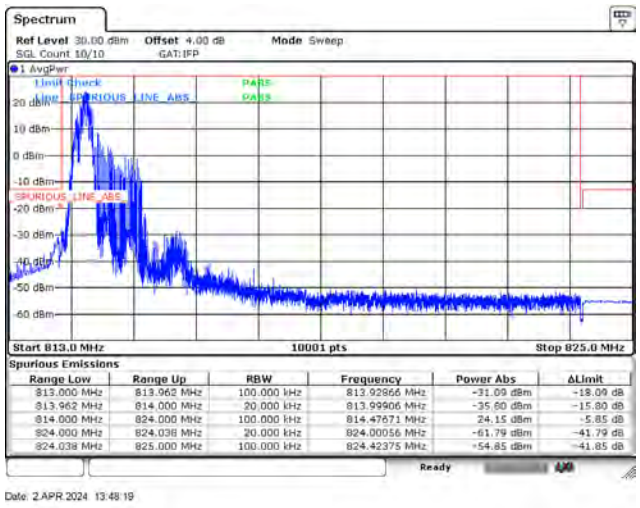
CH26697_1.4M_QPSK _6RB0



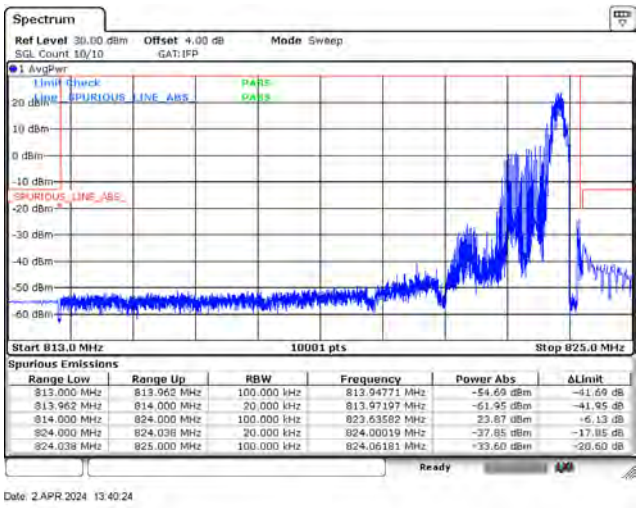
CH26783_1.4M_QPSK _6RB0

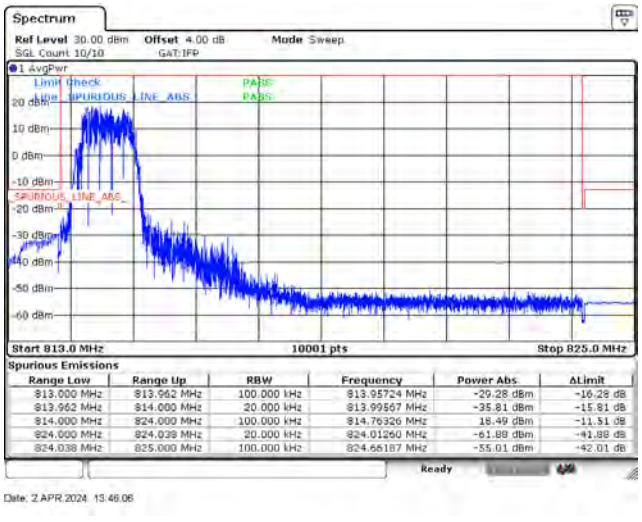
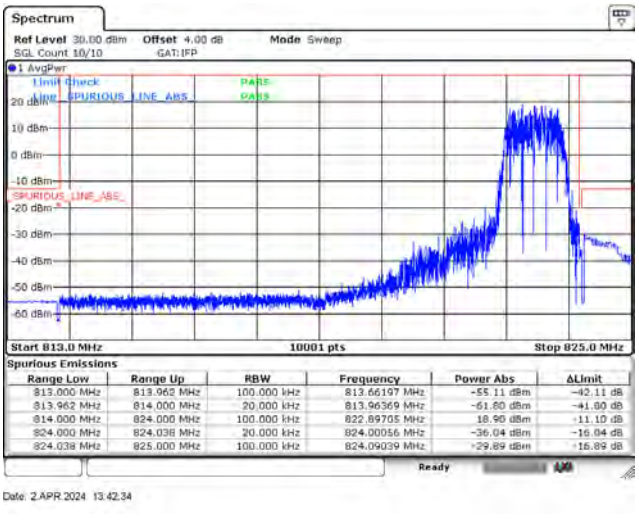
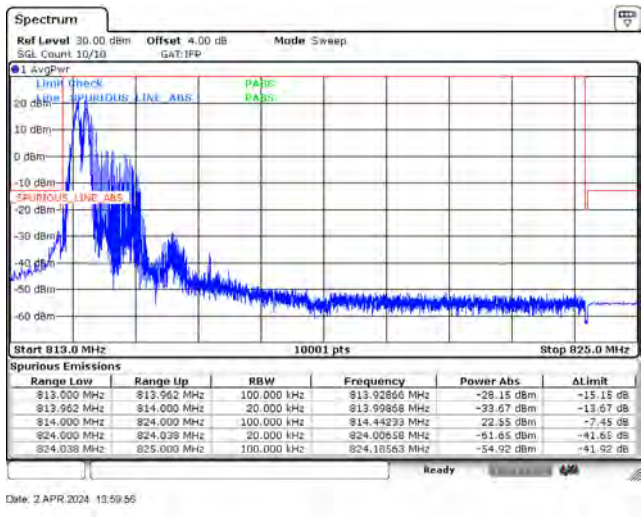
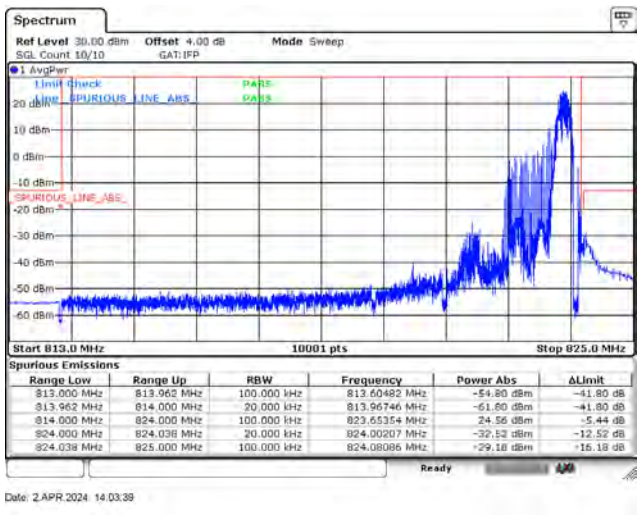
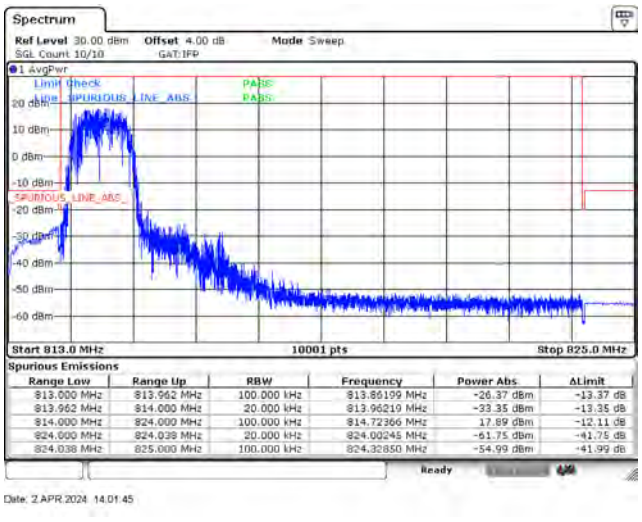
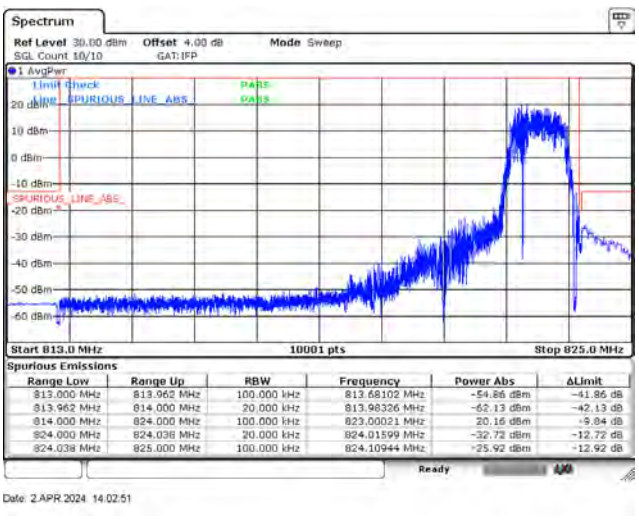


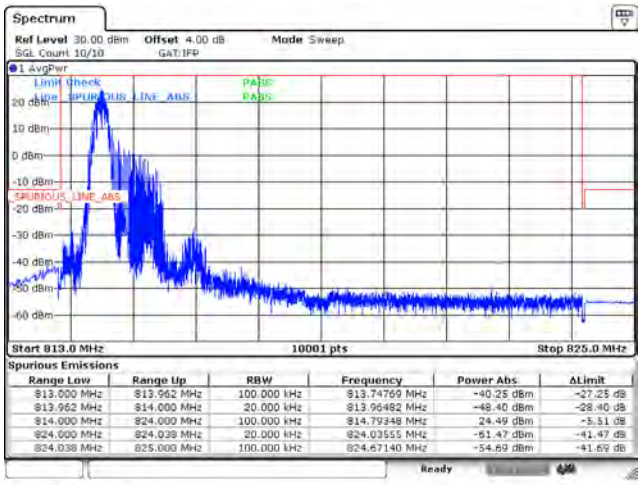
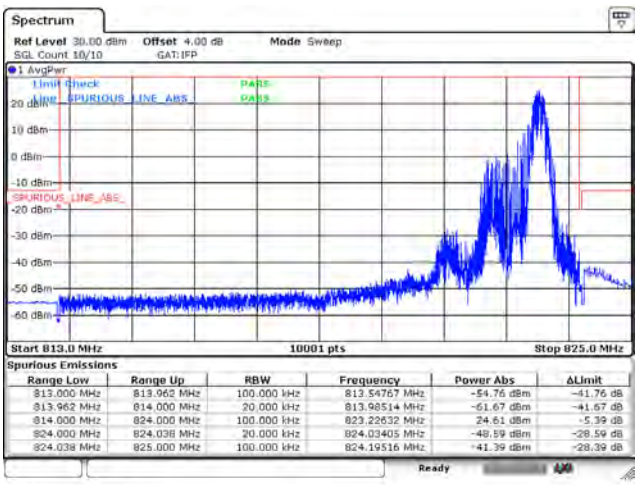
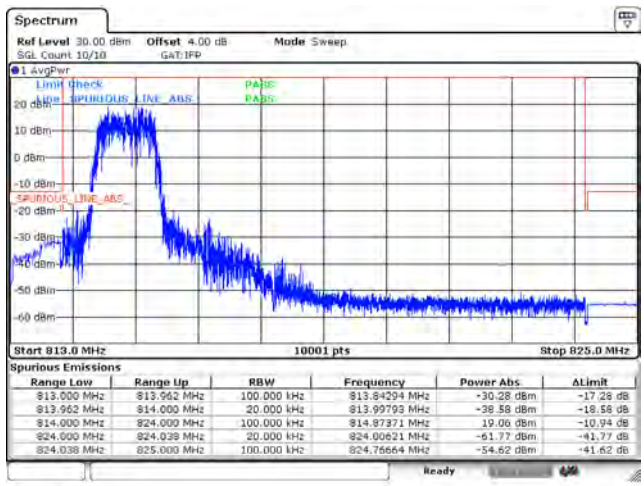
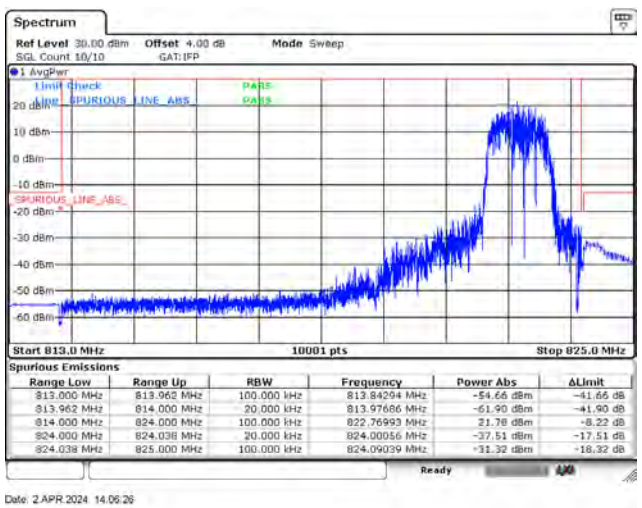
CH26705_3M_QPSK _1RB0



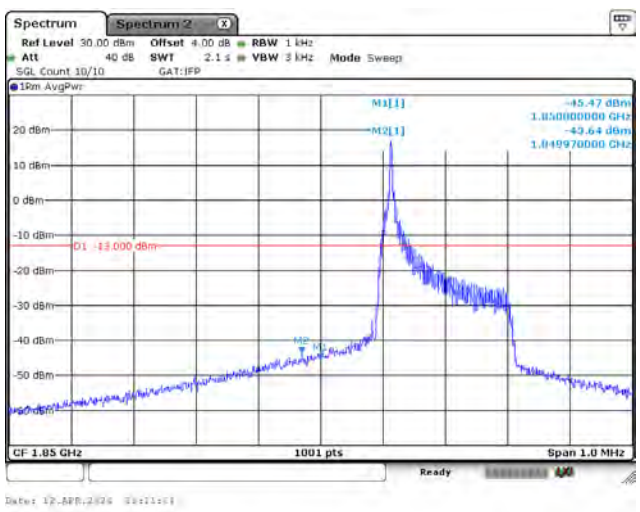
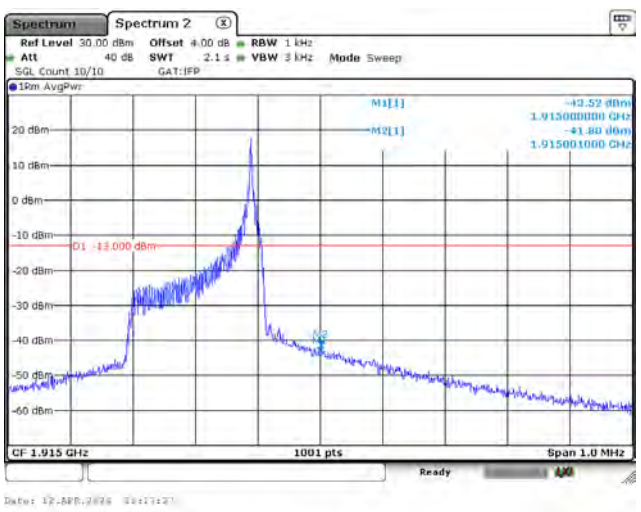
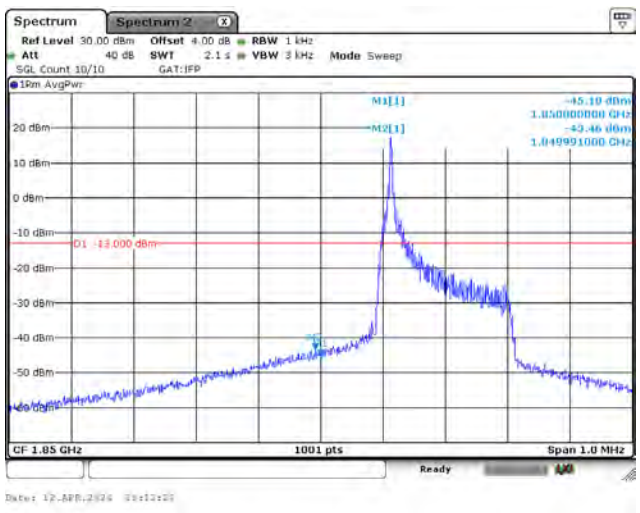
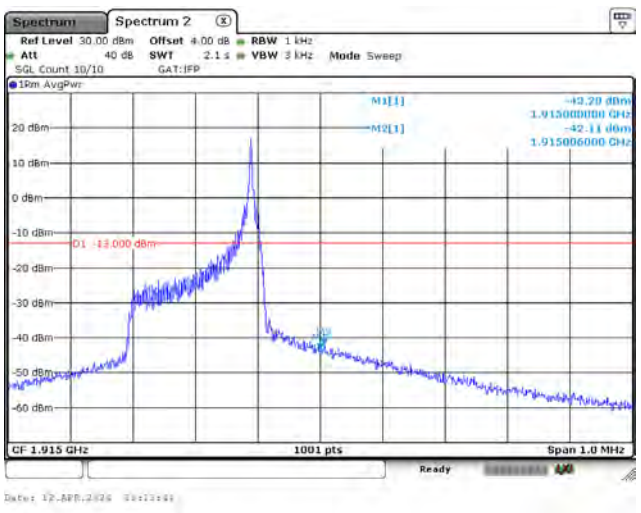
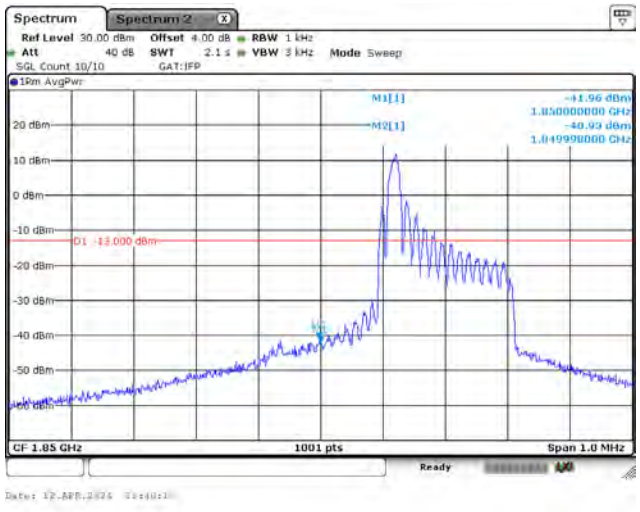
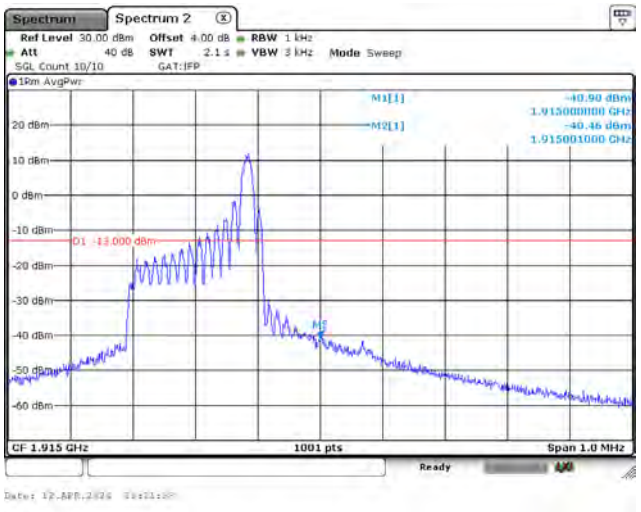
CH26775_3M_QPSK _1RB5

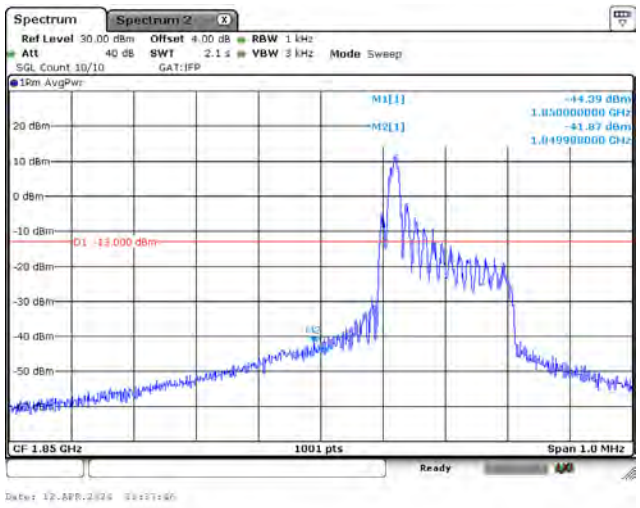
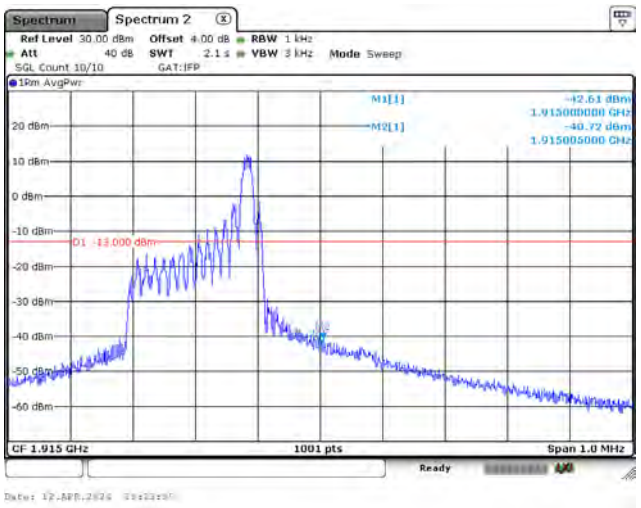
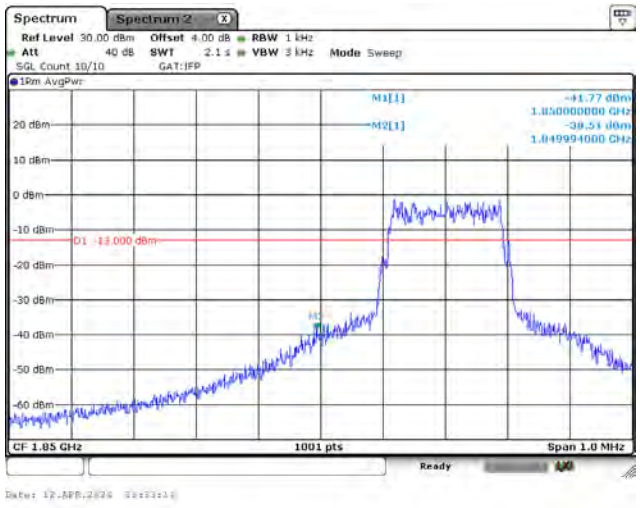
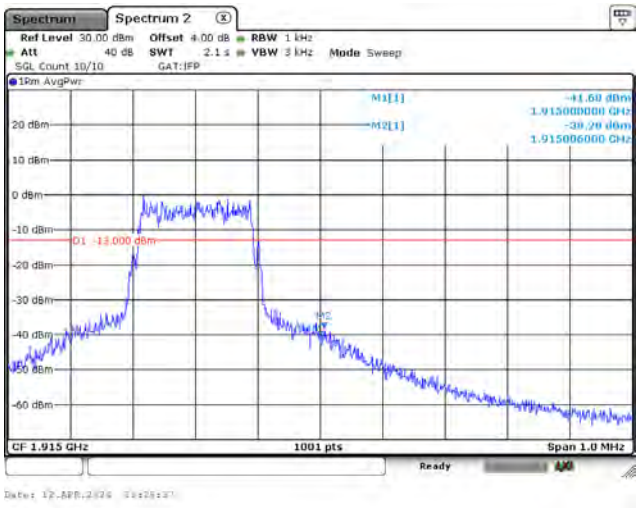


CH26705_3M_QPSK _6RB0	CH26775_3M_QPSK _6RB0
	
CH26715_5M_QPSK _1RB0	CH26765_5M_QPSK _1RB5
	
CH26715_5M_QPSK _6RB0	CH26765_5M_QPSK _6RB0
	

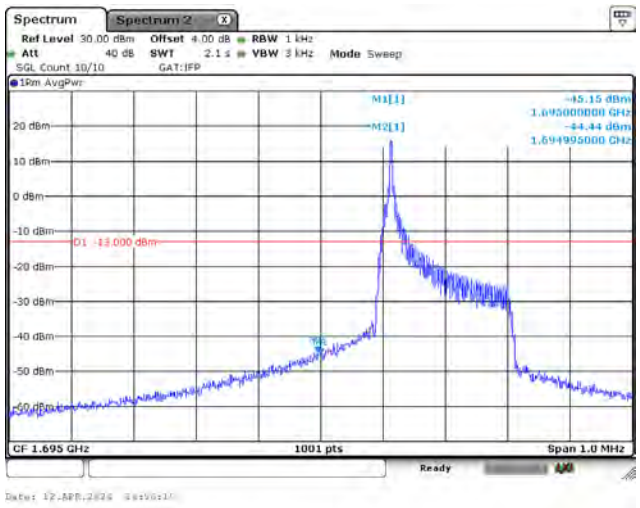
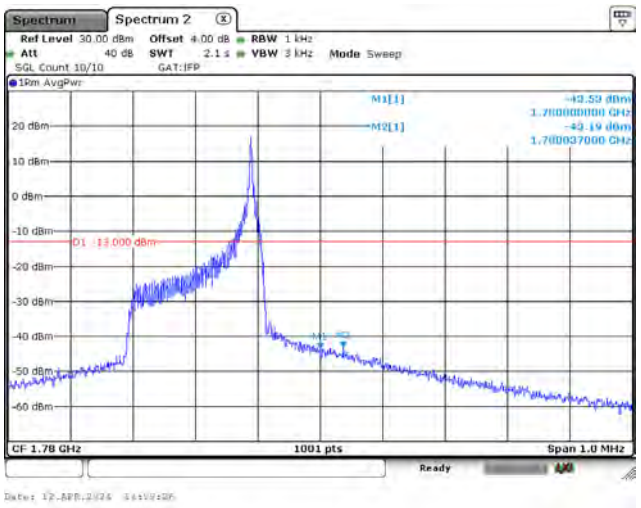
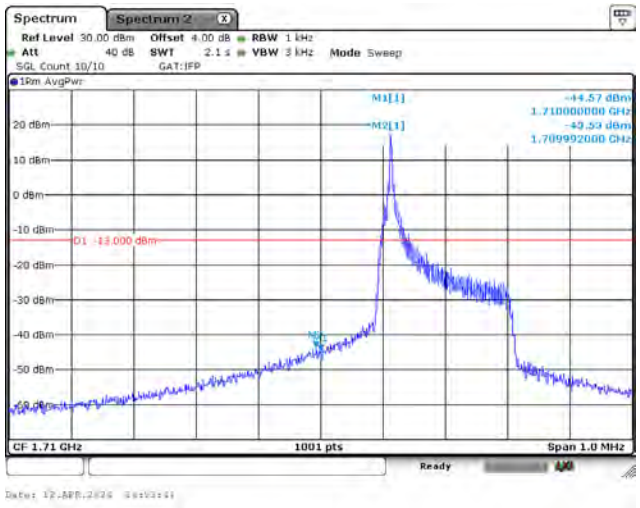
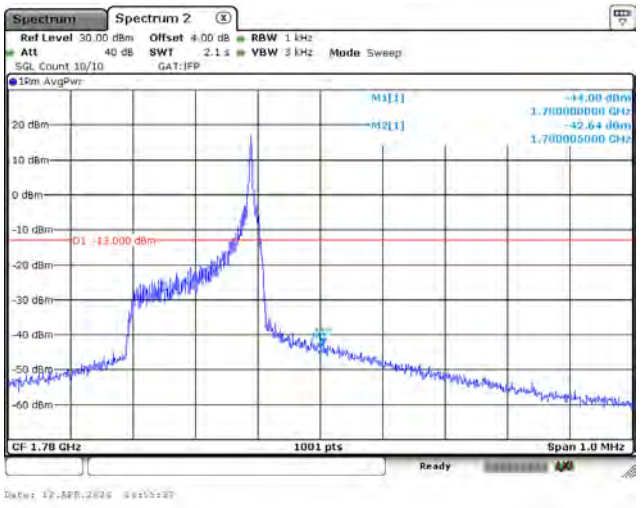
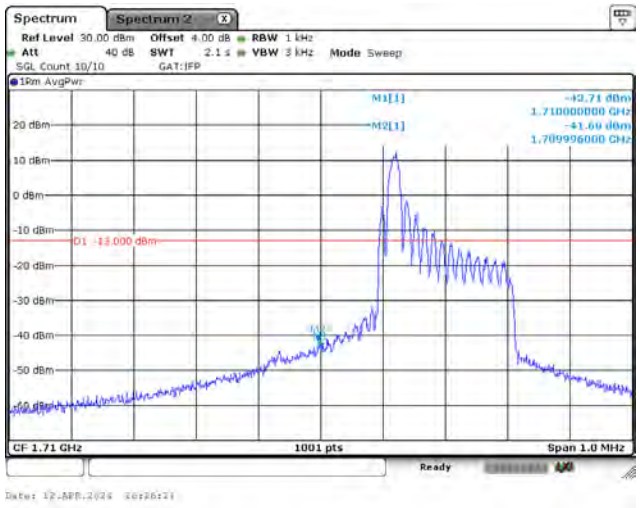
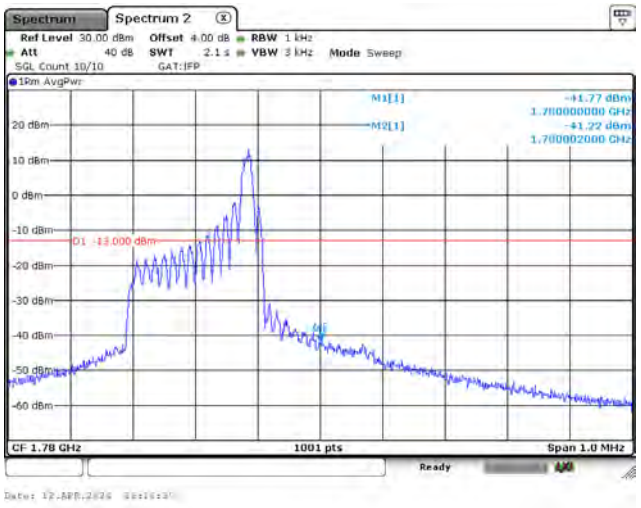
CH26740_10M_QPSK _1RB0	CH26740_10M_QPSK _1RB5
	
CH26740_10M_QPSK _6RB0	CH26740_10M_QPSK _6RB0
	

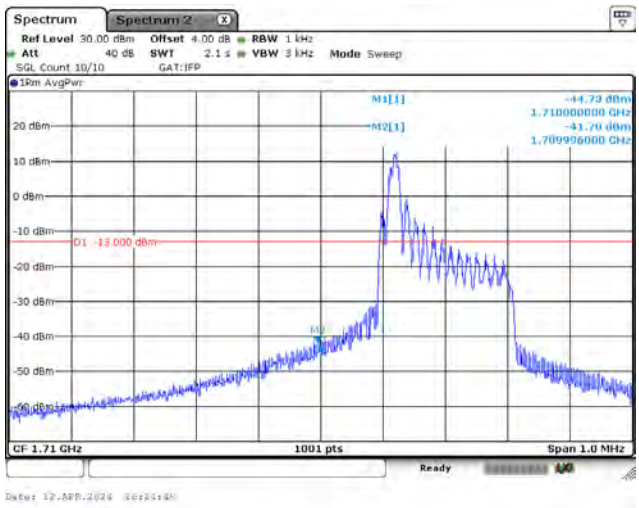
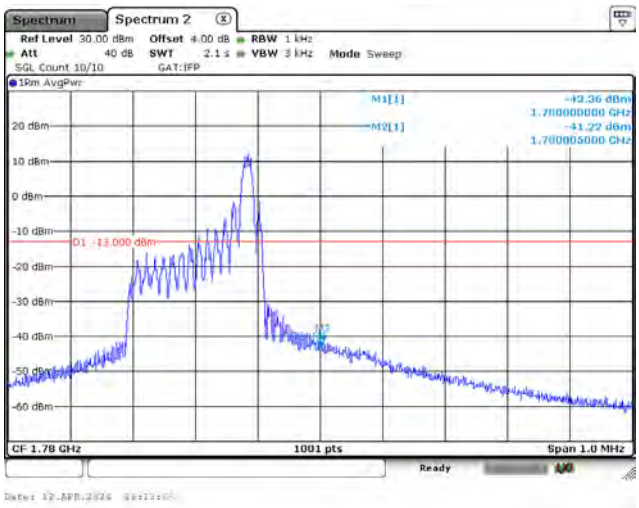
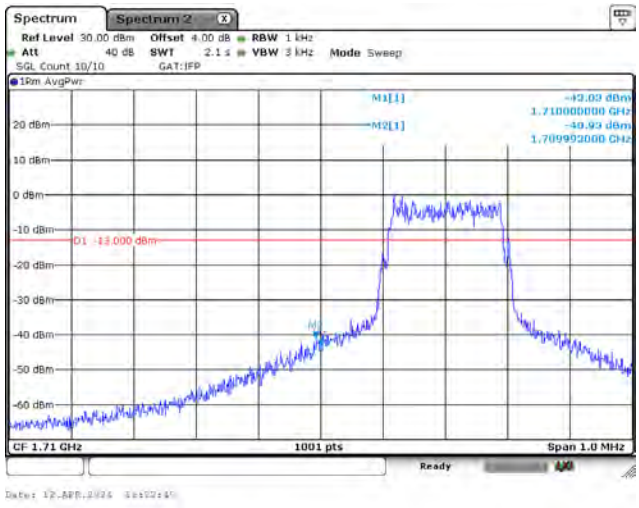
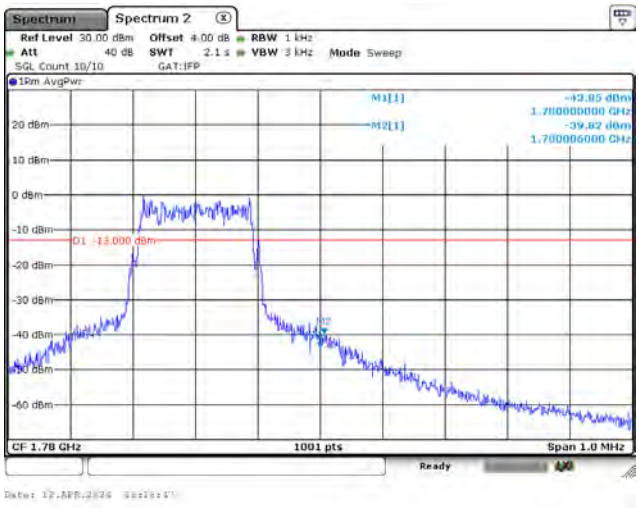
Mode 7: LTE NB-IoT Band 2 / 25

3.75k_CH26042_BPSK_1RB0	3.75k_CH26688_BPSK_1RB47
	
3.75k_CH26042_QPSK_1RB0	3.75k_CH26688_QPSK_1RB47
	
15k_CH26042_BPSK_1RB0	15k_CH26688_BPSK_1RB11
	

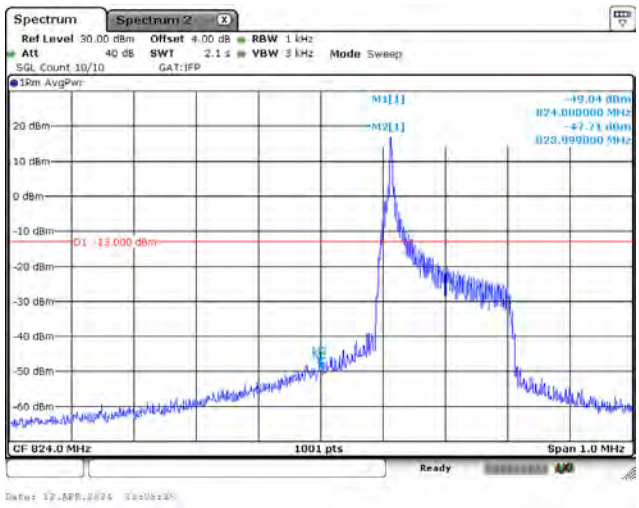
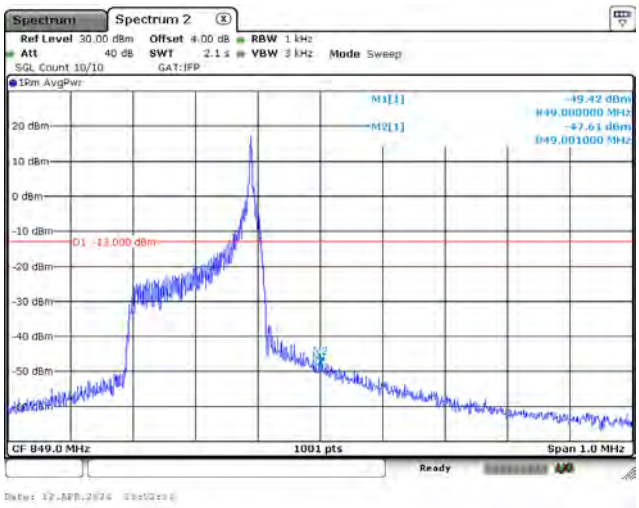
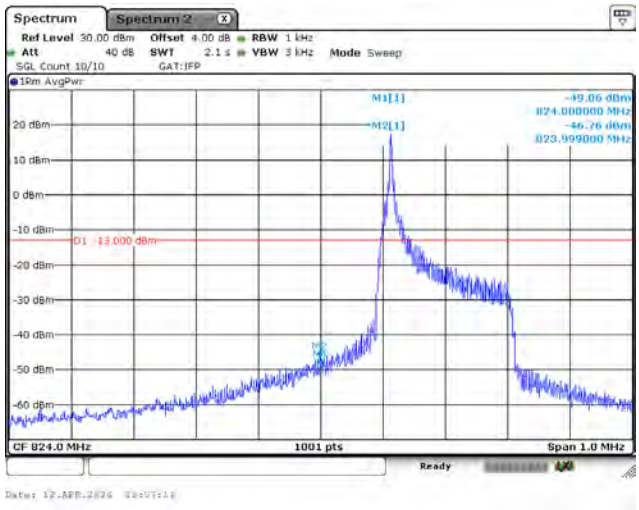
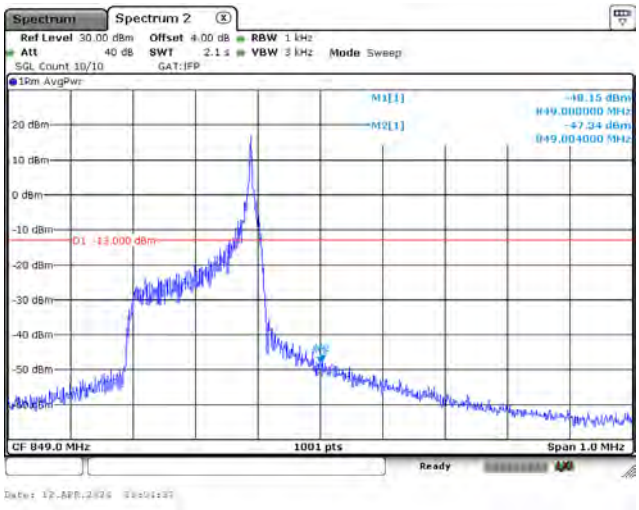
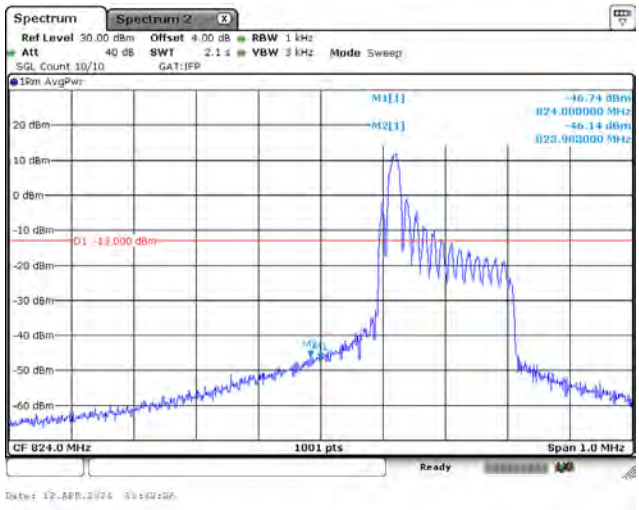
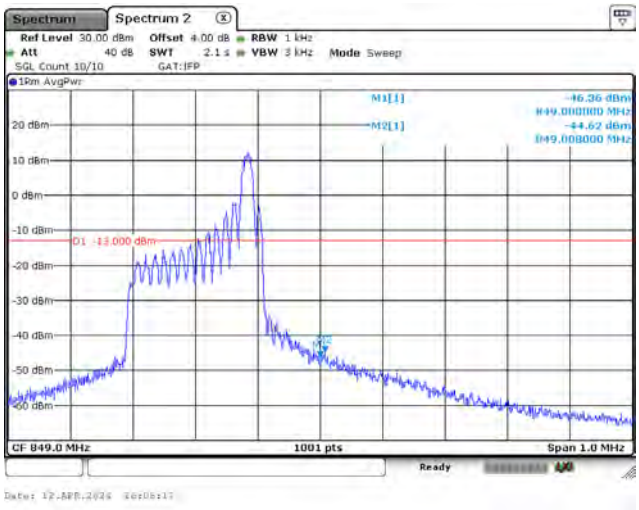
15k_CH26042_QPSK_1RB0	15k_CH26688_QPSK_1RB11
	
15k_CH26042_QPSK_12RB0	**15k_CH26688_QPSK_12RB0**
	

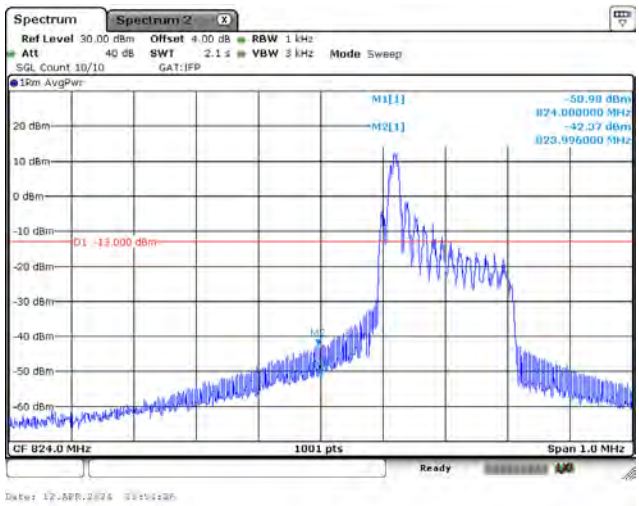
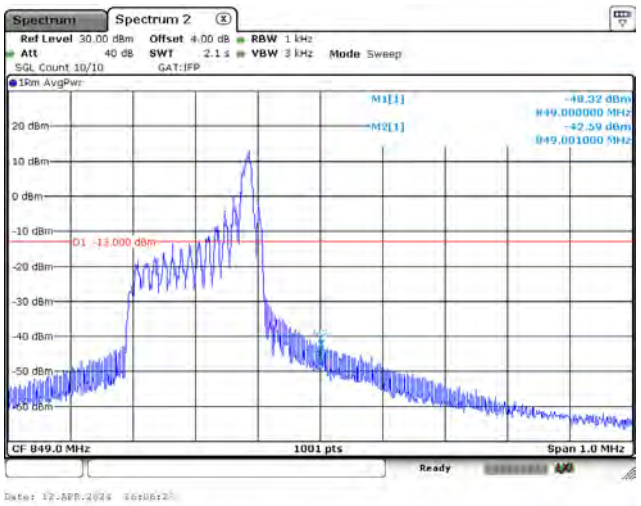
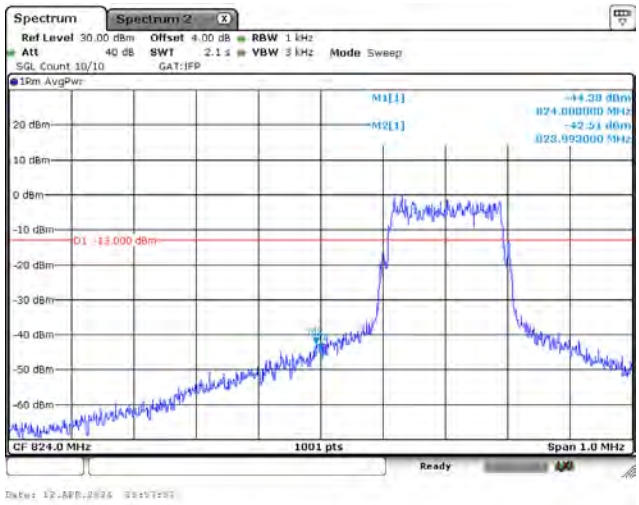
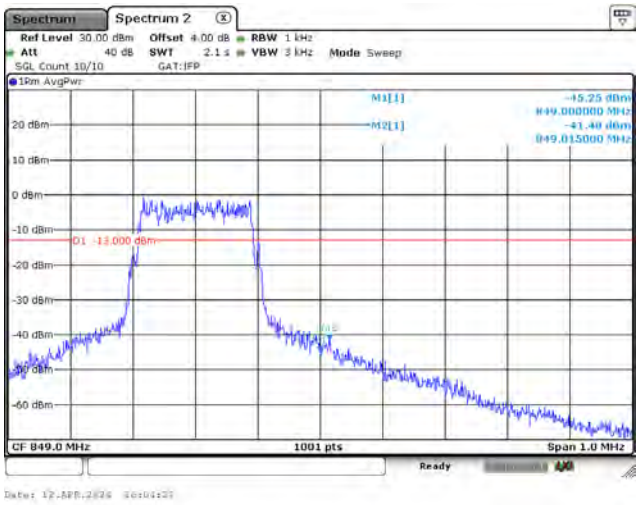
Mode 8: LTE NB-IoT Band 4 / 66

3.75k_CH131974_BPSK_1RB0	3.75k_CH132670_BPSK_1RB47
	
3.75k_CH131974_QPSK_1RB0	3.75k_CH132670_QPSK_1RB47
	
15k_CH131974_BPSK_1RB0	15k_CH132670_BPSK_1RB11
	

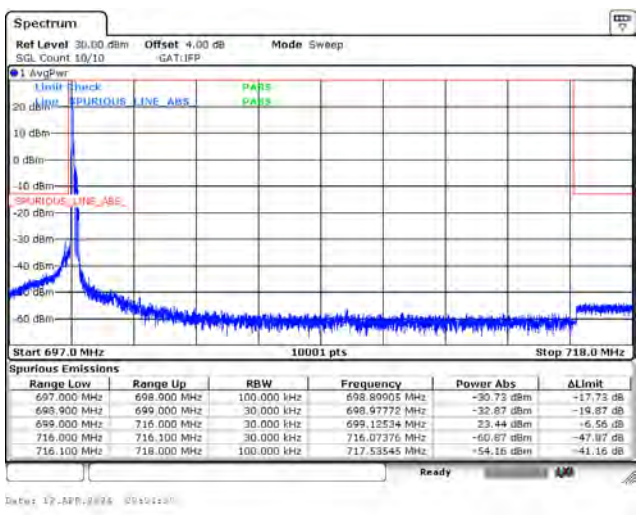
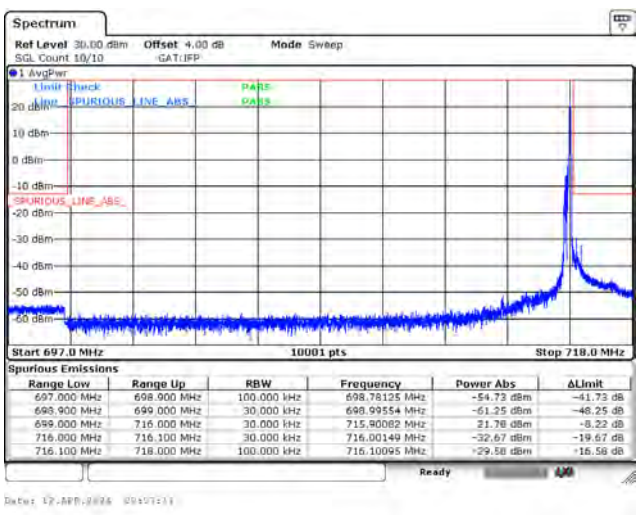
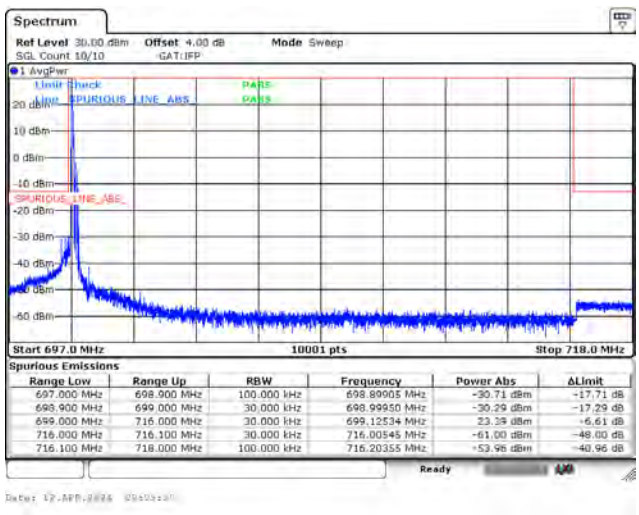
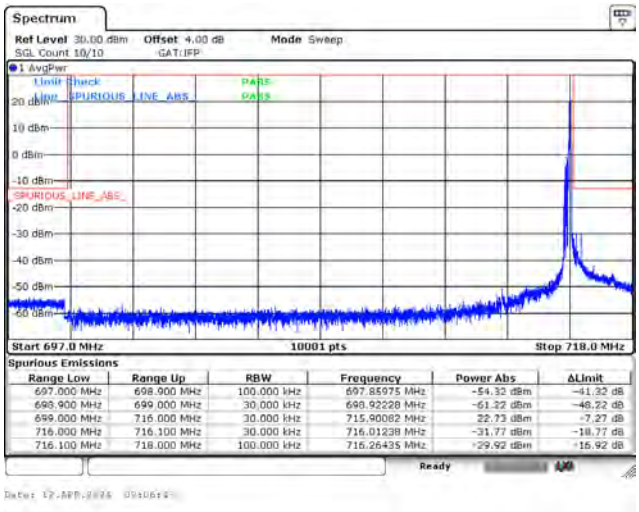
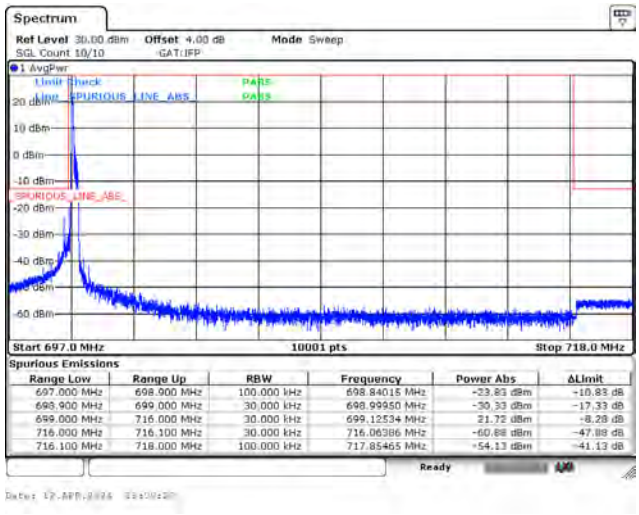
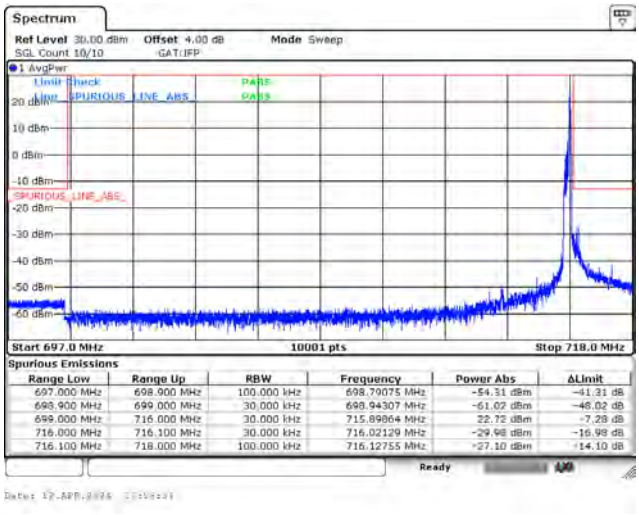
15k_CH131974_QPSK_1RB0	15k_CH132670_QPSK_1RB11
	
15k_CH131974_QPSK_12RB0	15k_CH132670_QPSK_12RB0
	

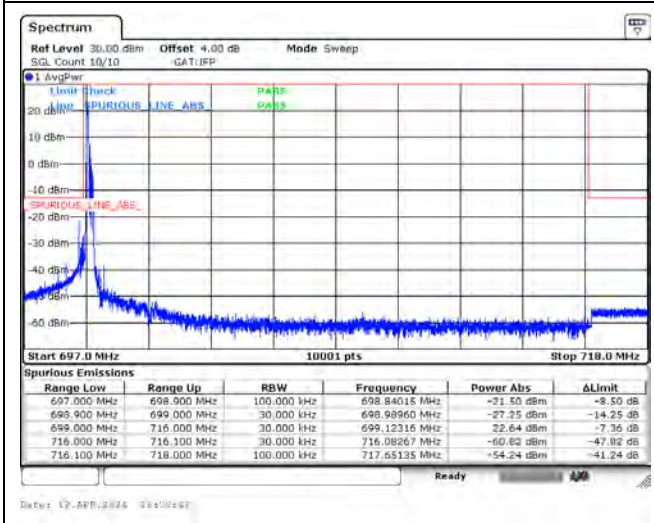
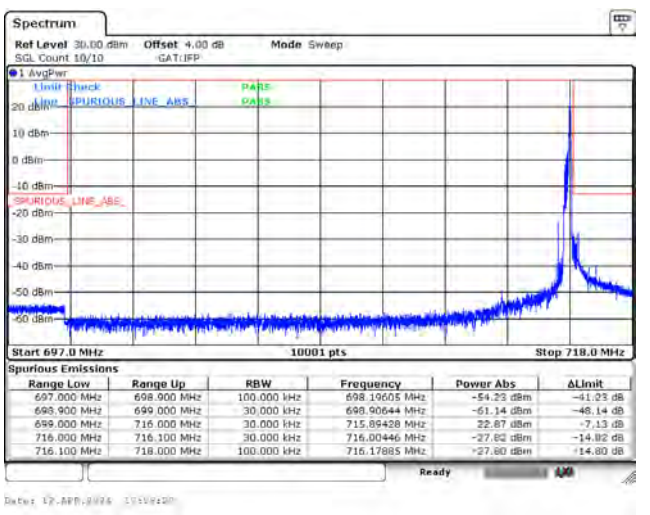
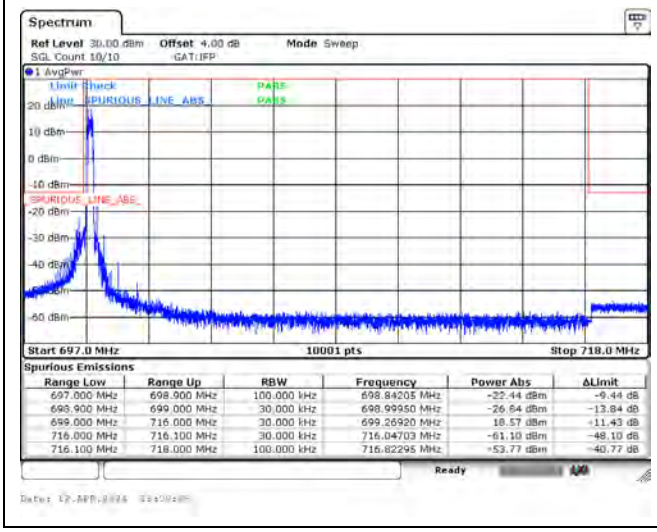
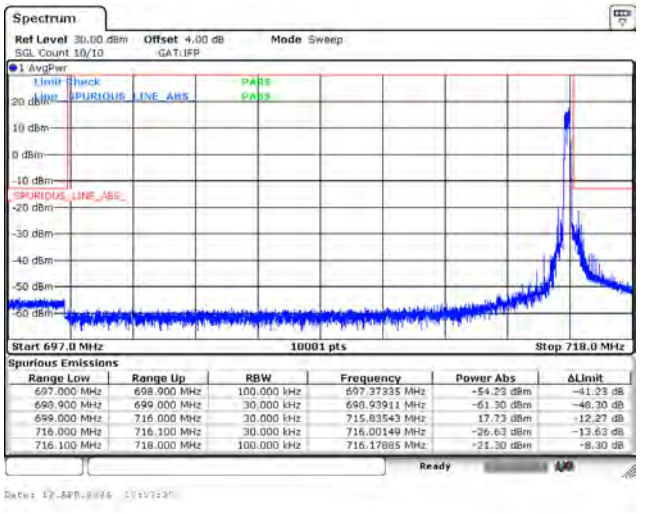
Mode 9: LTE NB-IoT Band 5 / 26 (Part 22)

3.75k_CH26792_BPSK_1RB0	3.75k_CH27038_BPSK_1RB47
	
3.75k_CH26792_QPSK_1RB0	3.75k_CH27038_QPSK_1RB47
	
15k_CH26792_BPSK_1RB0	15k_CH27038_BPSK_1RB11
	

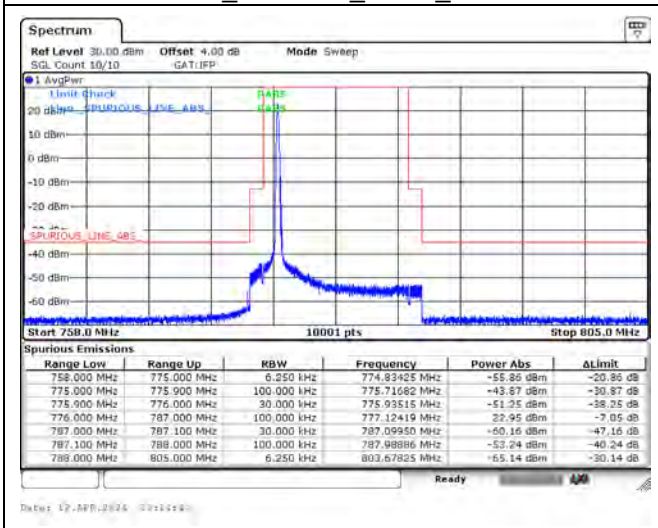
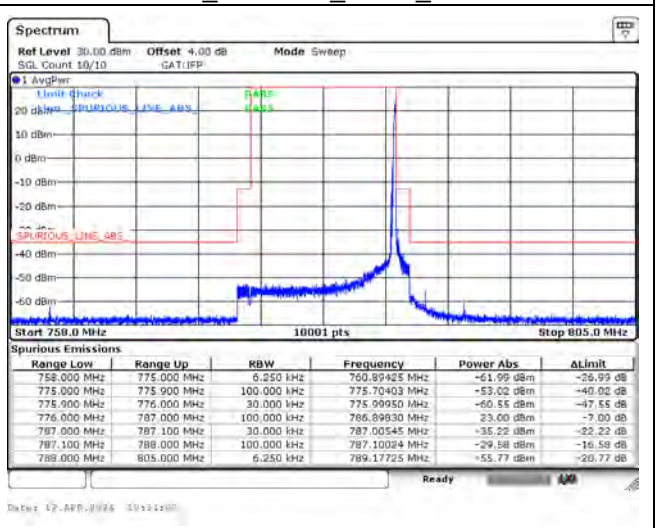
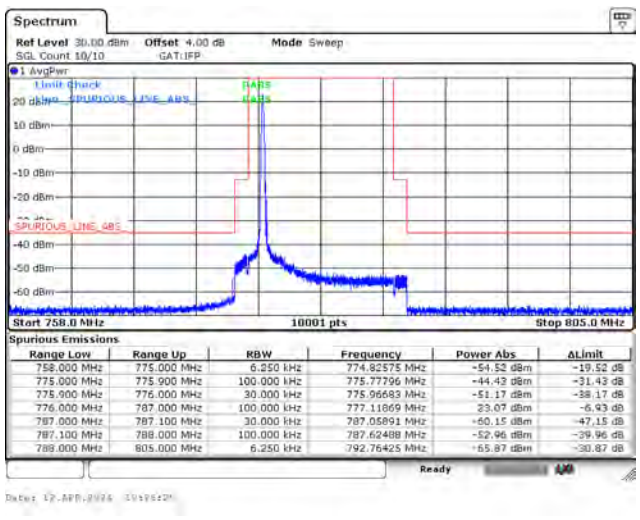
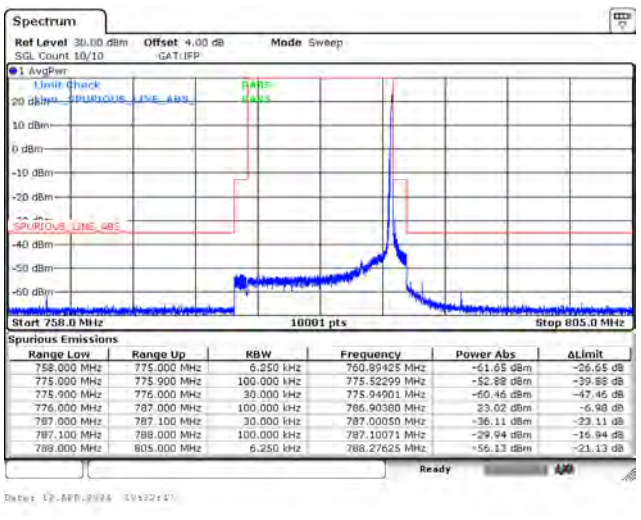
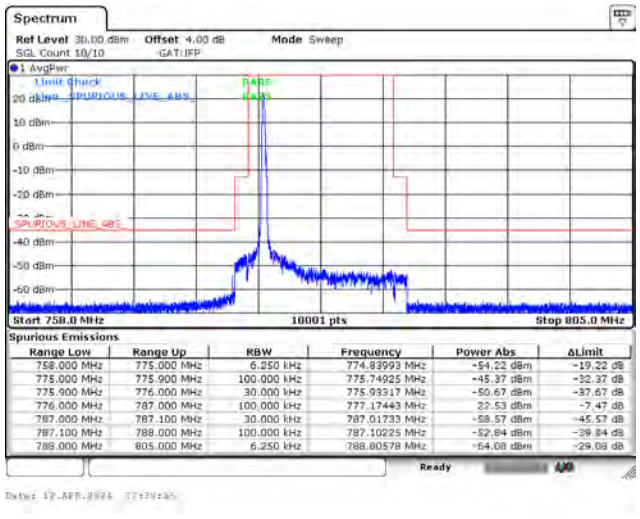
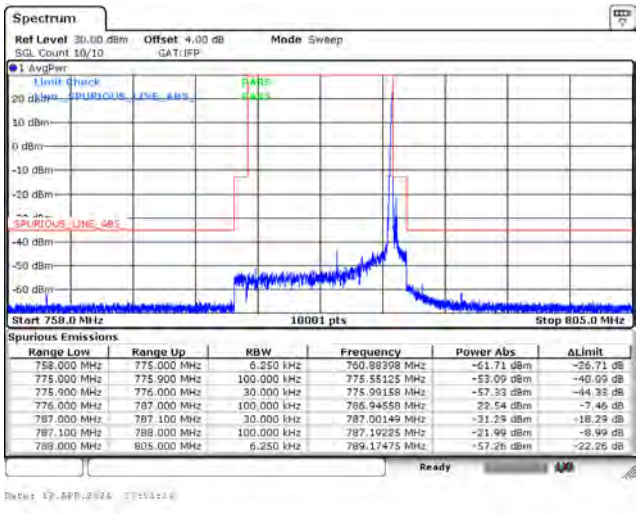
15k_CH26792_QPSK_1RB0	15k_CH27038_QPSK_1RB11
	
15k_CH26792_QPSK_12RB0	15k_CH27038_QPSK_12RB0
	

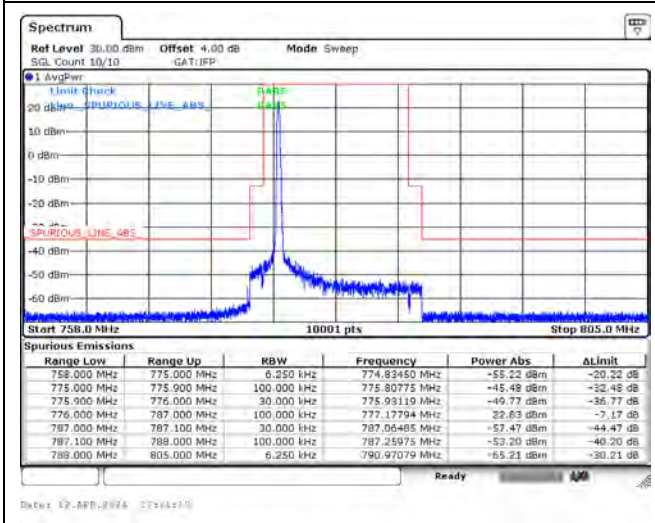
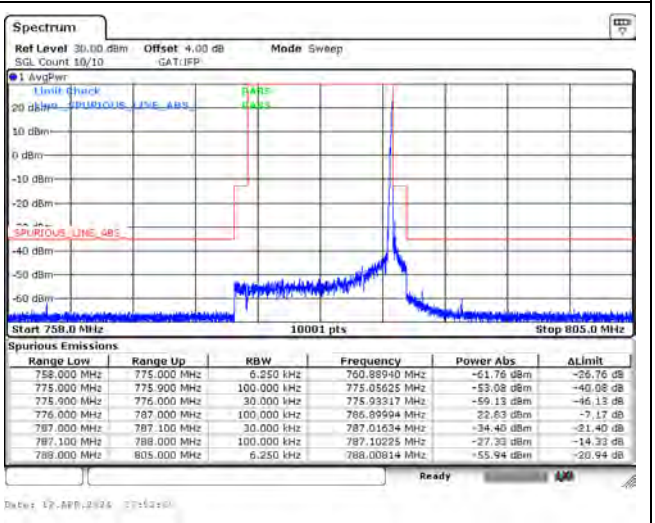
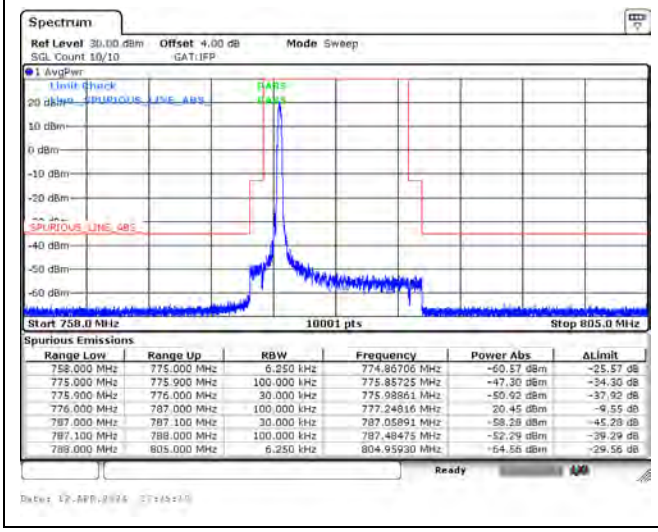
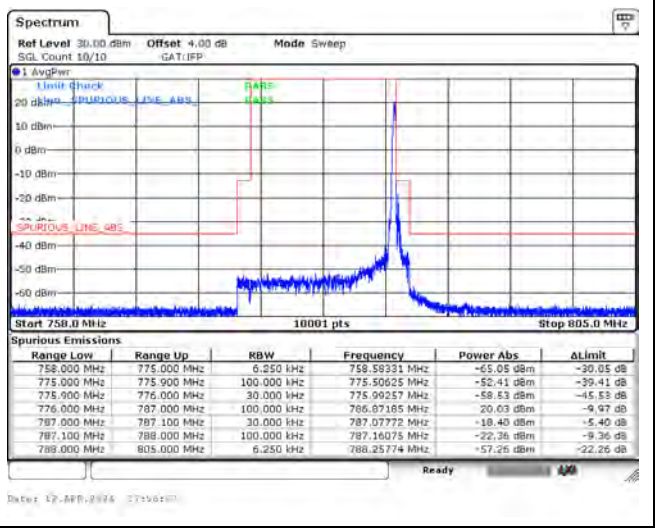
Mode 10: LTE NB-IoT Band 12

3.75K_CH23012_BPSK_1RB0	3.75K_CH23178_BPSK_1RB47
	
3.75K_CH23012_QPSK_1RB0	3.75K_CH23178_QPSK_1RB47
	
15K_CH23012_BPSK_1RB0	15K_CH23178_BPSK_1RB11
	

15K_CH23012_QPSK_1RB0	15K_CH23178_QPSK_1RB11
	
15K_CH23012_QPSK_12RB0	15K_CH23178_QPSK_12RB0
	

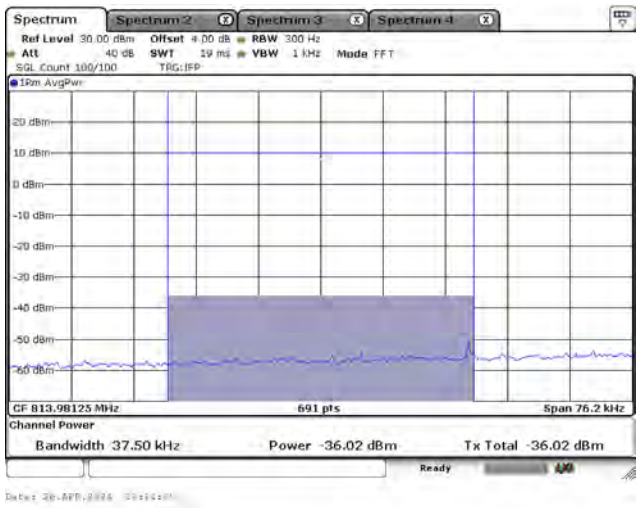
Mode 11: LTE NB-IoT Band 13

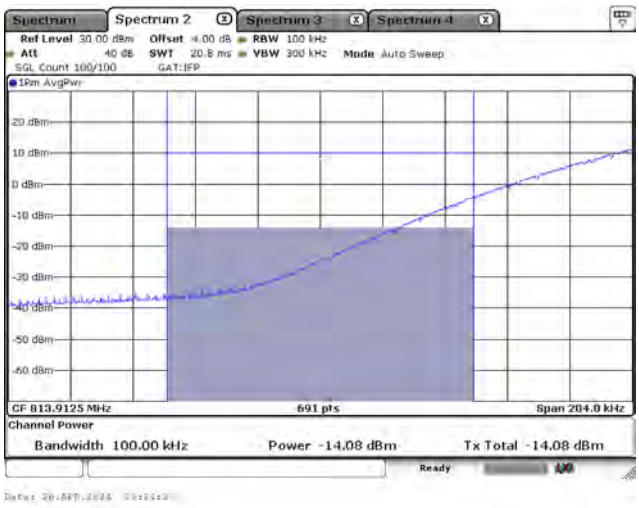
3.75K_CH23182_BPSK_1RB0	3.75K_CH23278_BPSK_1RB47
	
3.75K_CH23182_QPSK_1RB0	**3.75K_CH23278_QPSK_1RB47**
	
15K_CH23182_BPSK_1RB0	**15K_CH23278_BPSK_1RB11**
	

15K_CH23182_QPSK_1RB0	15K_CH23278_QPSK_1RB11
	
15K_CH23182_QPSK_12RB0	15K_CH23278_QPSK_12RB0
	

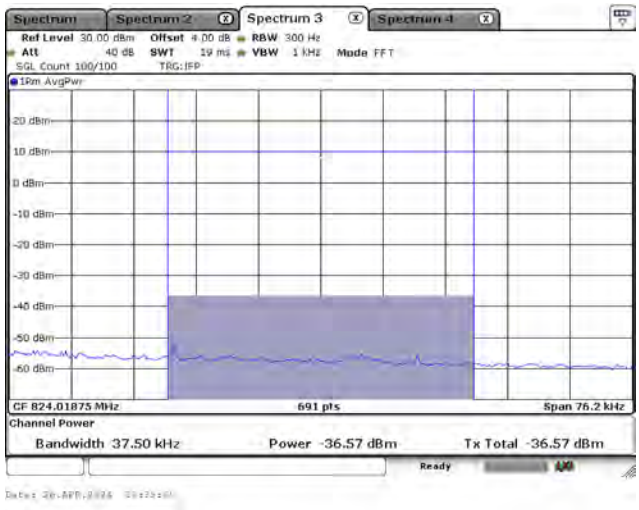
Mode 12: LTE NB-IoT 1 Band 26 (Part 90)

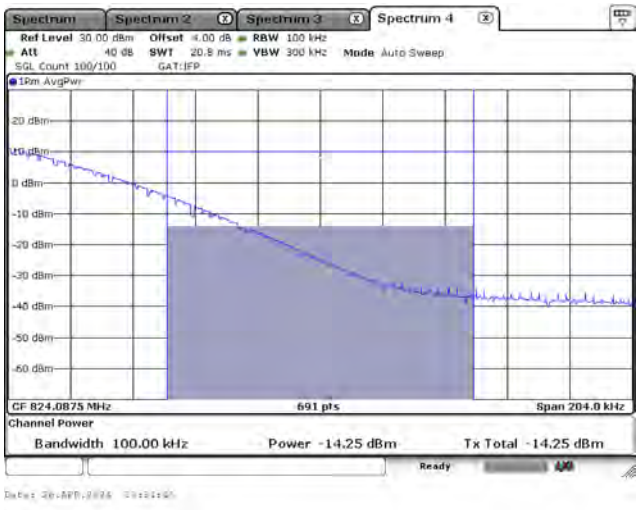
3.75k_CH26692_BPSK_1RB0



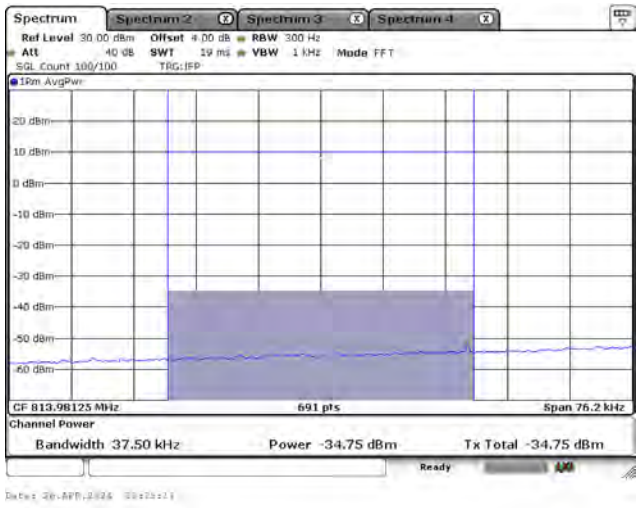


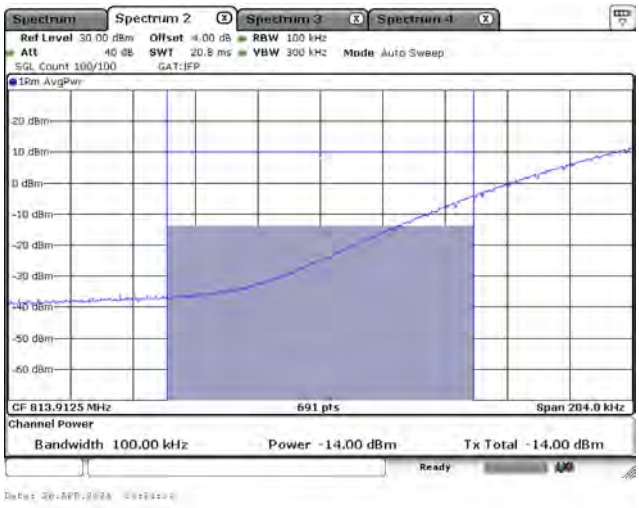
3.75k_CH26788_BPSK_1RB47

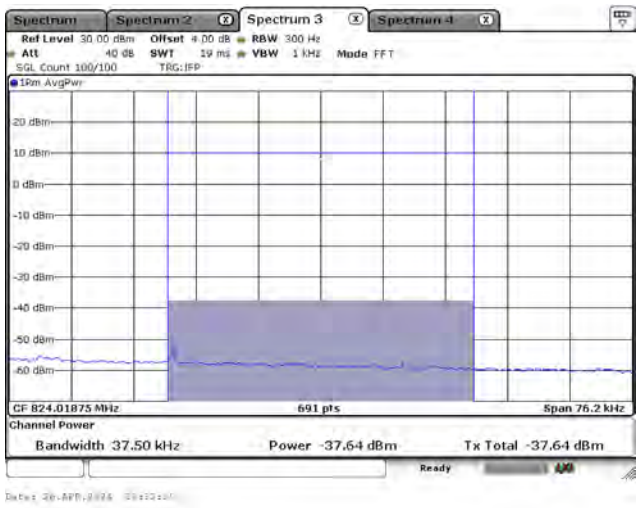
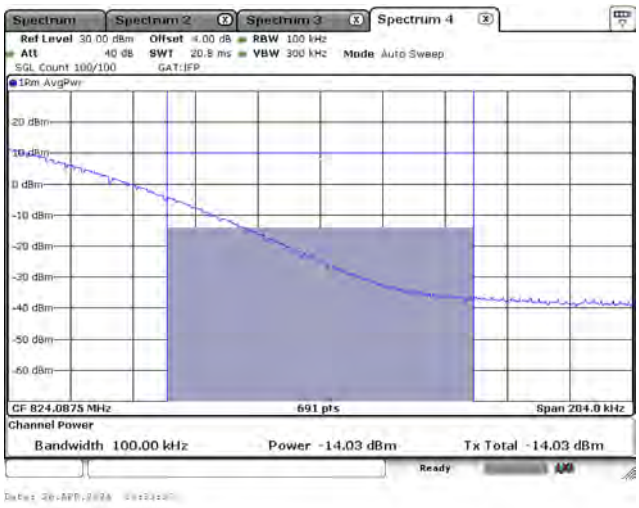
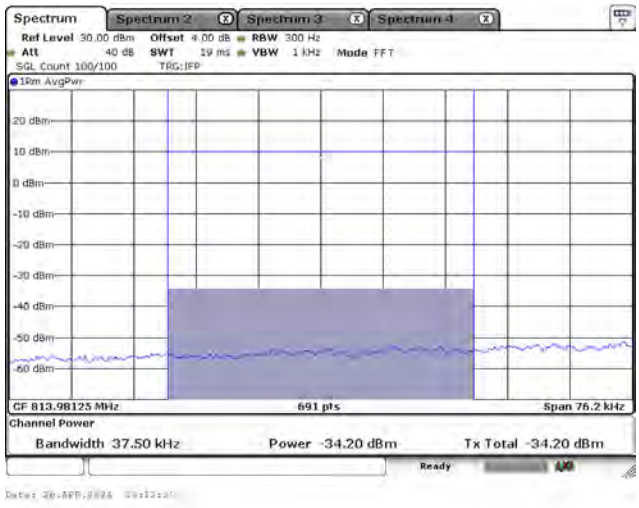
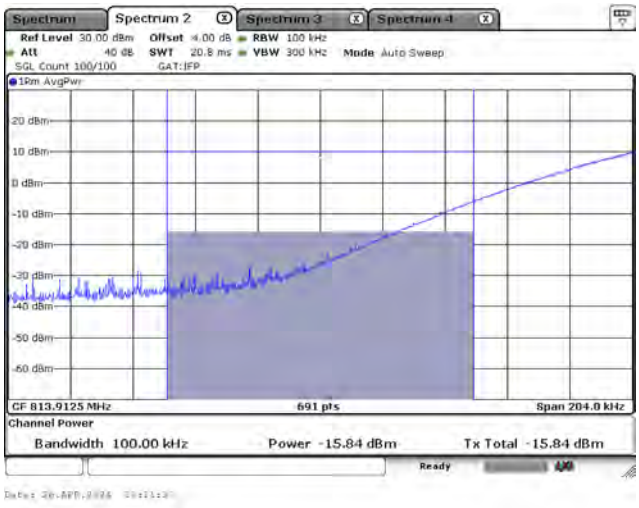
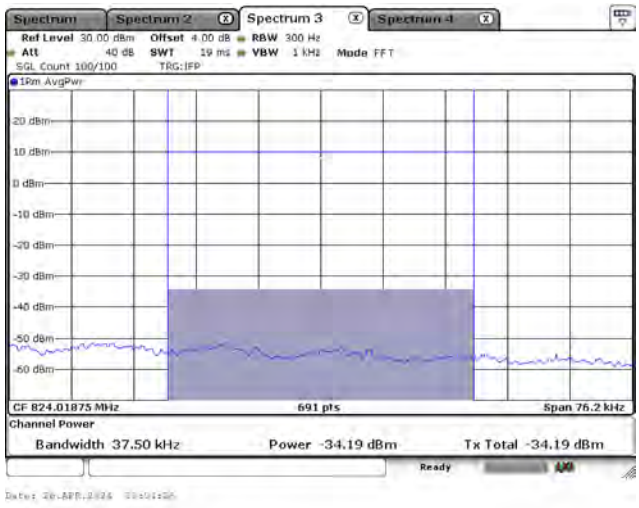
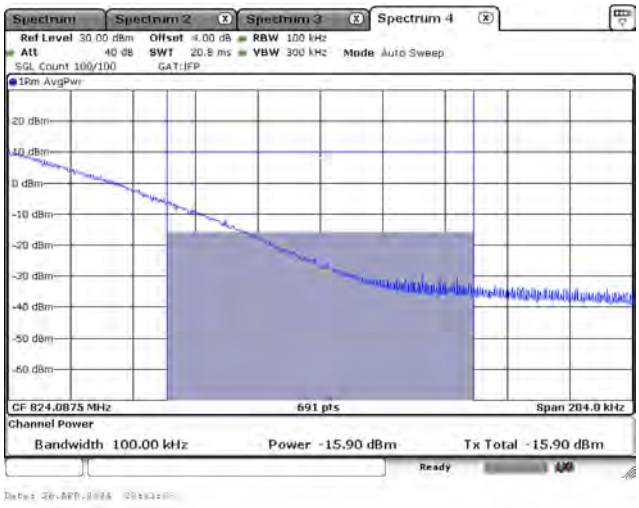




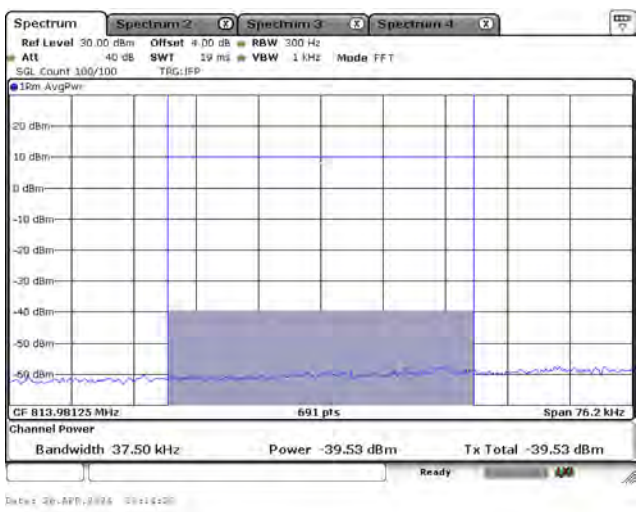
3.75k_CH26692_QPSK_1RB0

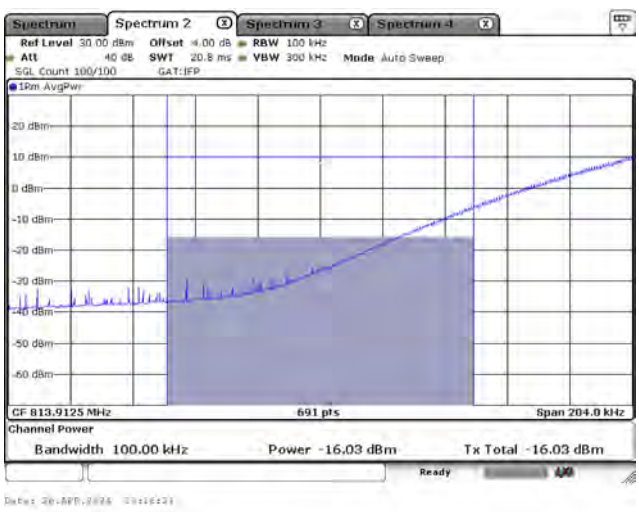




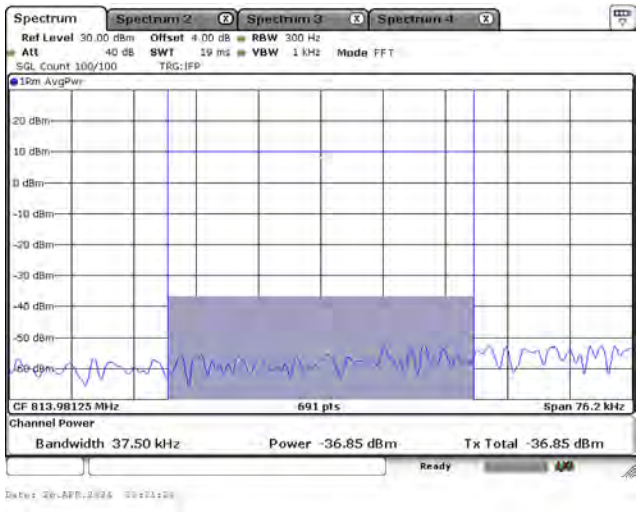
3.75k_CH26788_QPSK_1RB47	
	
15k_CH26692_BPSK_1RB0	
	
15k_CH26788_BPSK_1RB11	
	

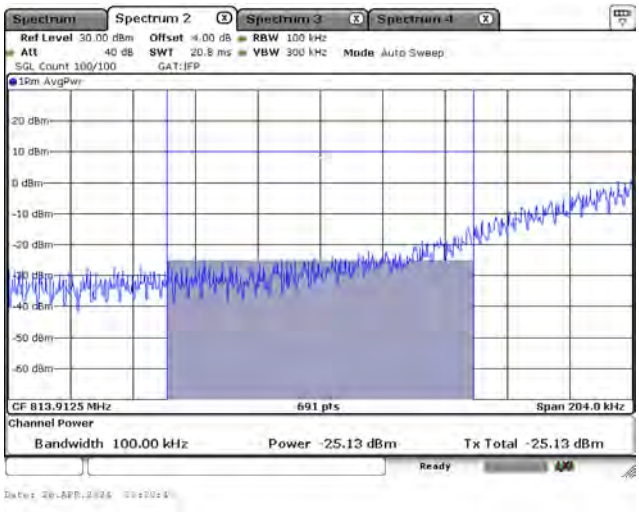
15k_CH26692_QPSK_1RB0



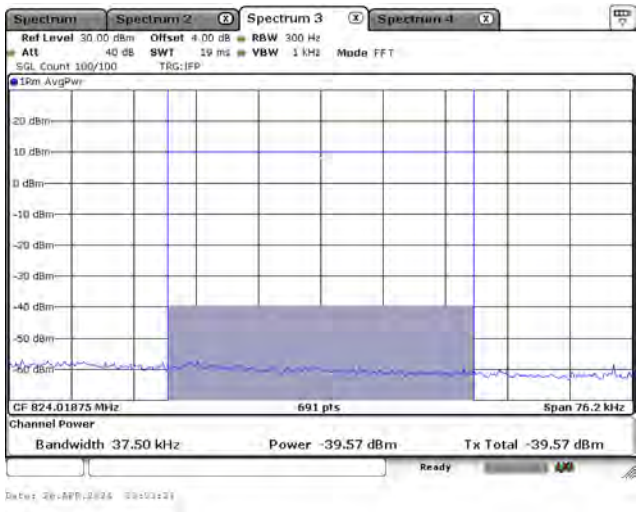


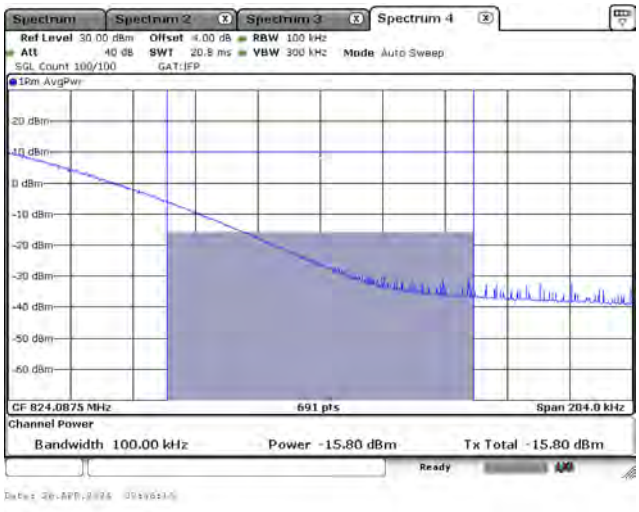
15k_CH26692_QPSK_12RB0

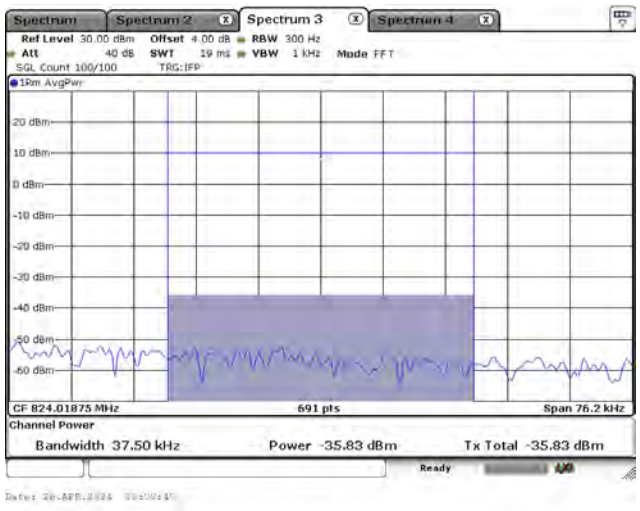
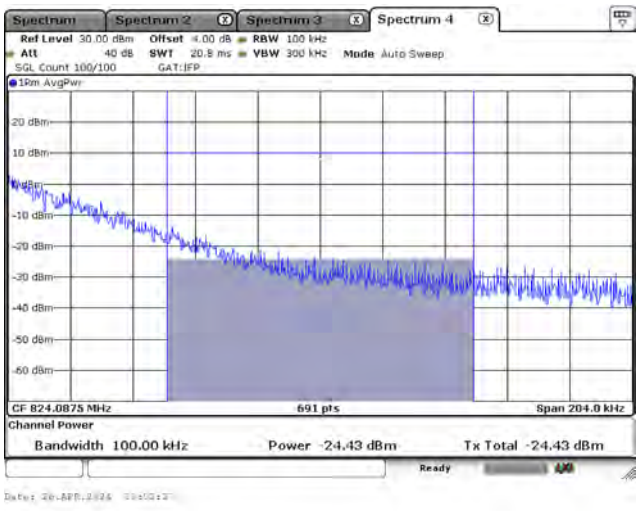




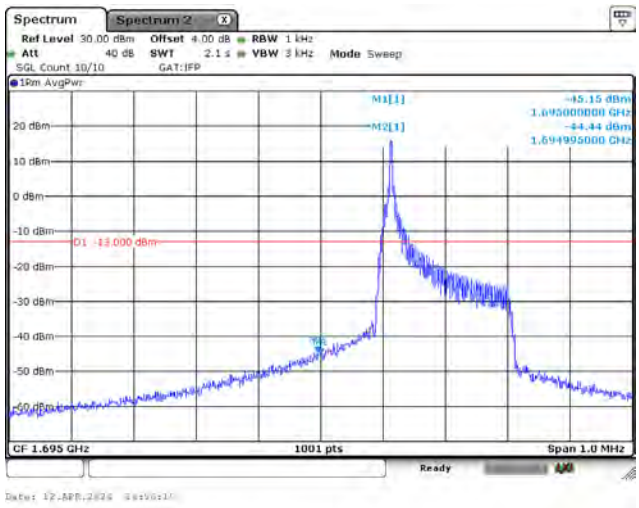
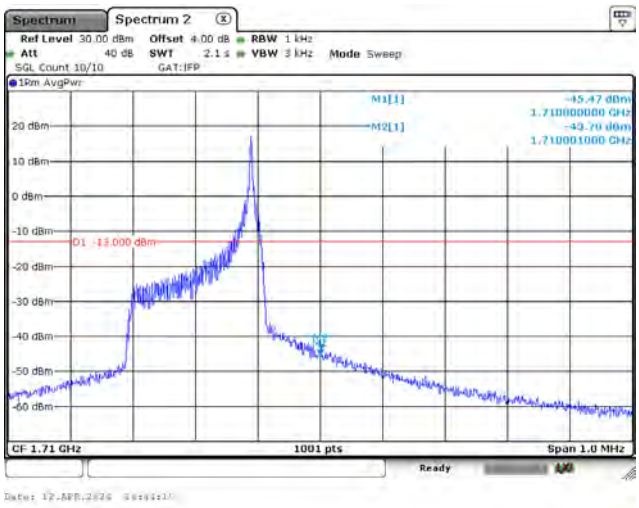
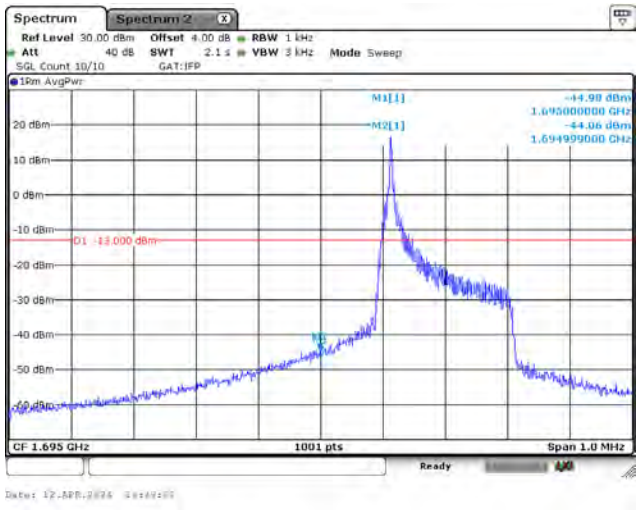
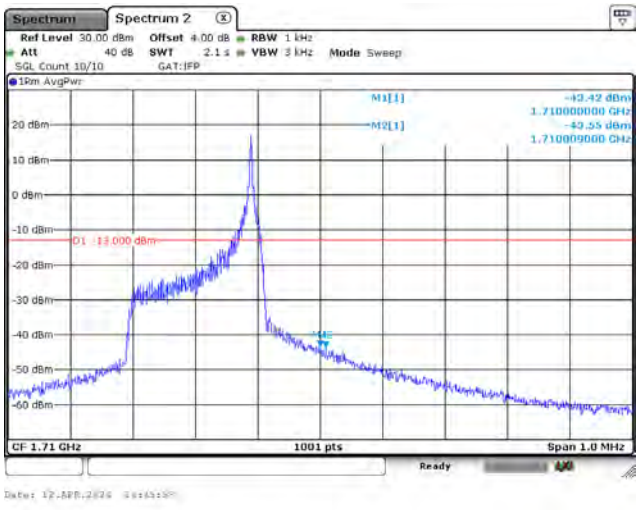
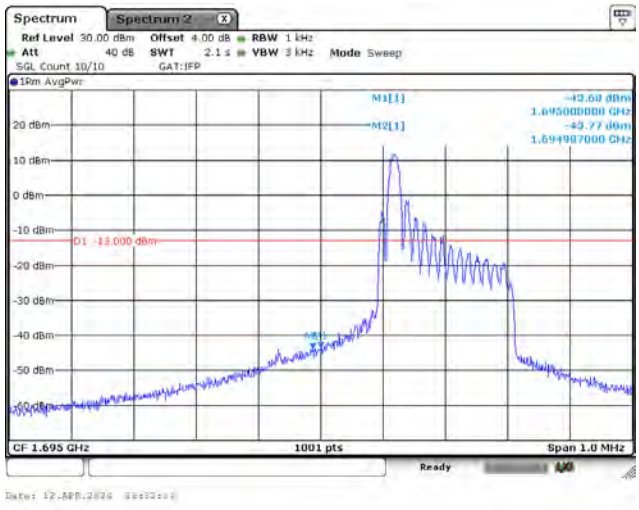
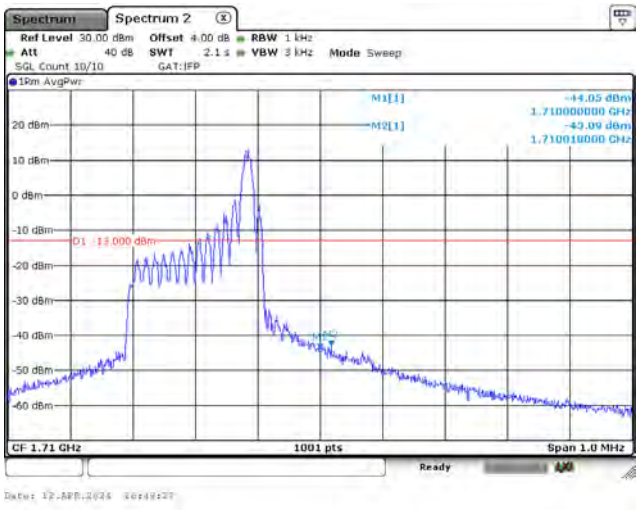
15k_CH26788_QPSK_1RB11

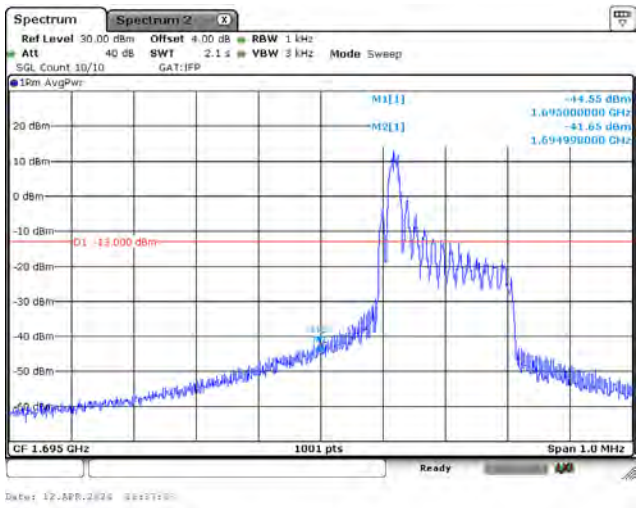
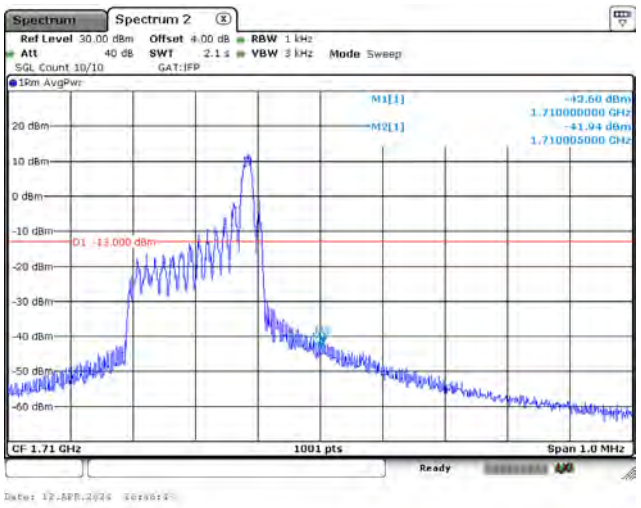
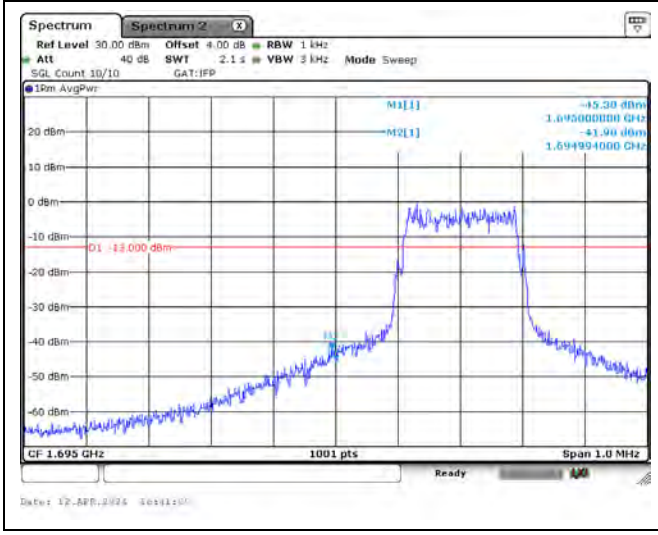
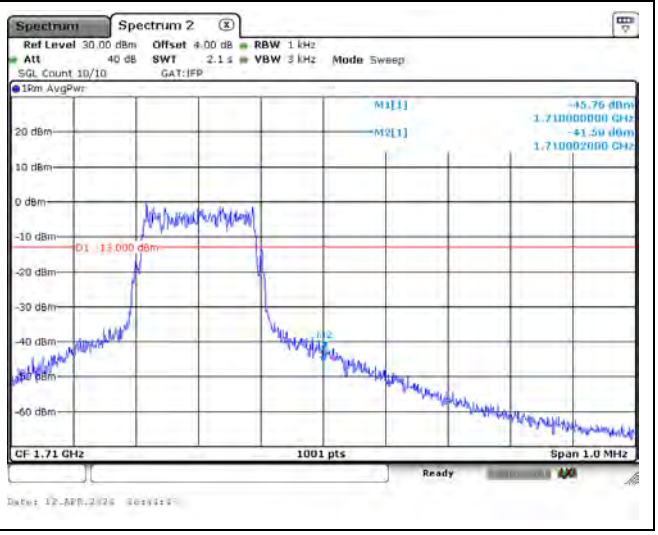




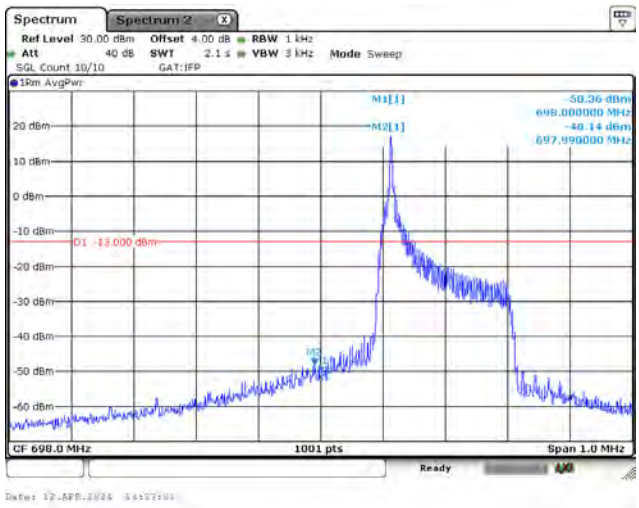
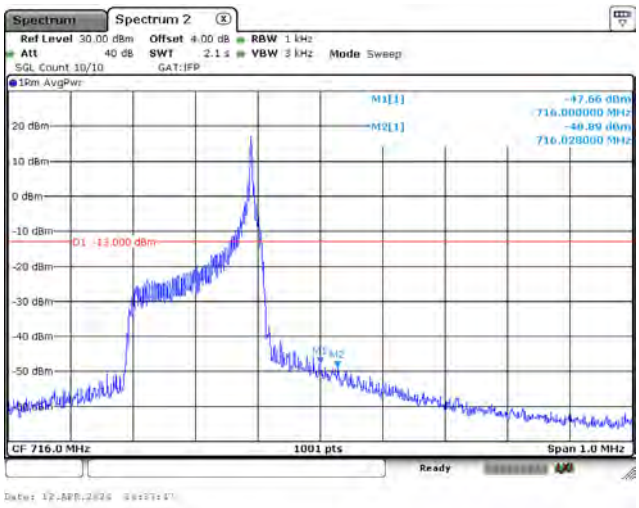
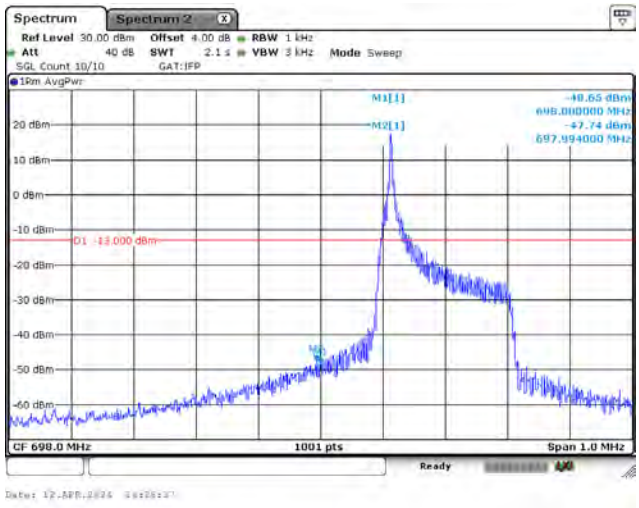
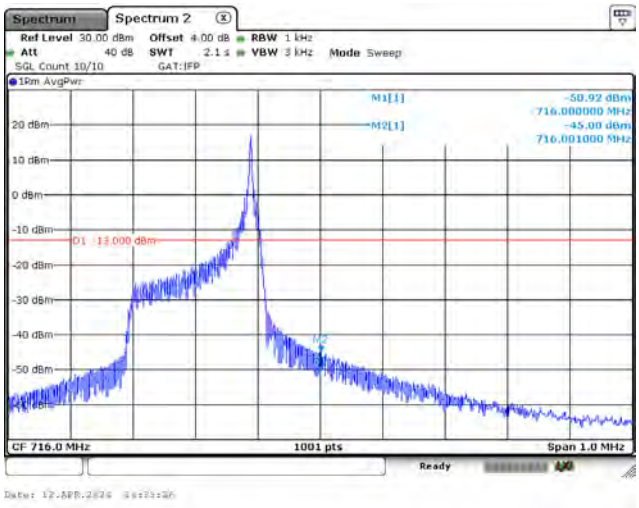
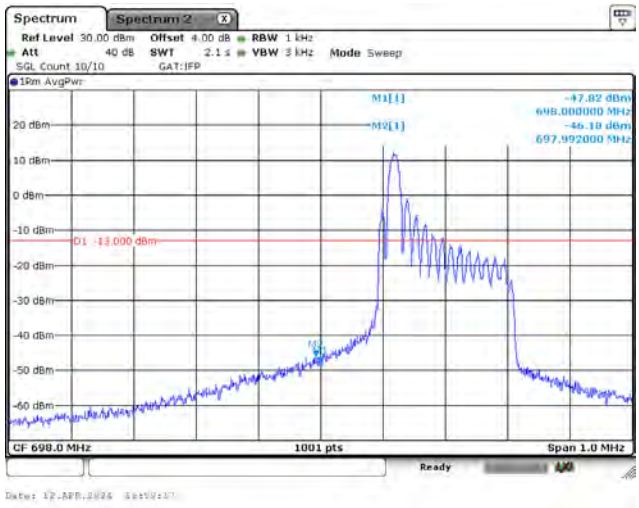
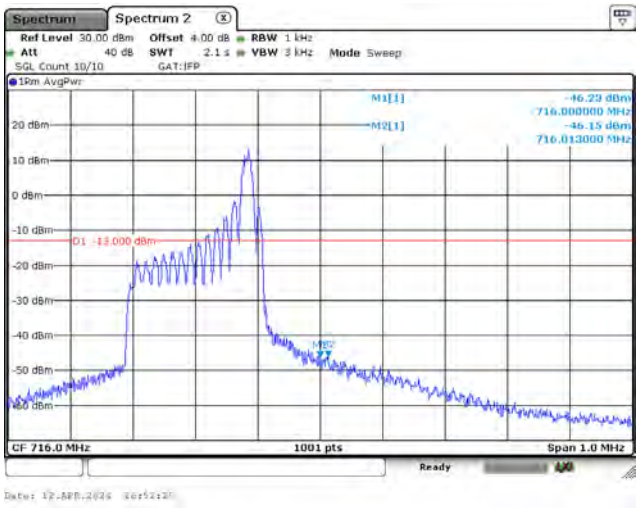
15k_CH26788_QPSK_12RB0	
	

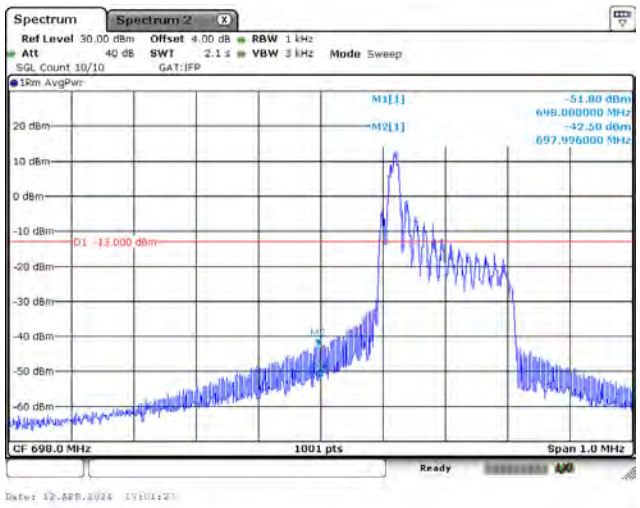
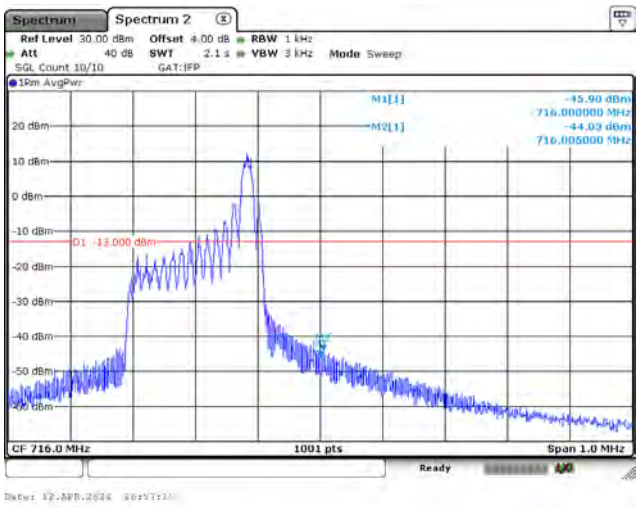
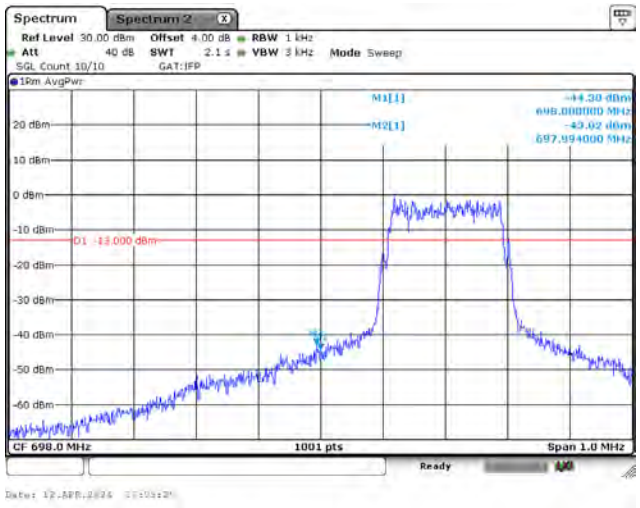
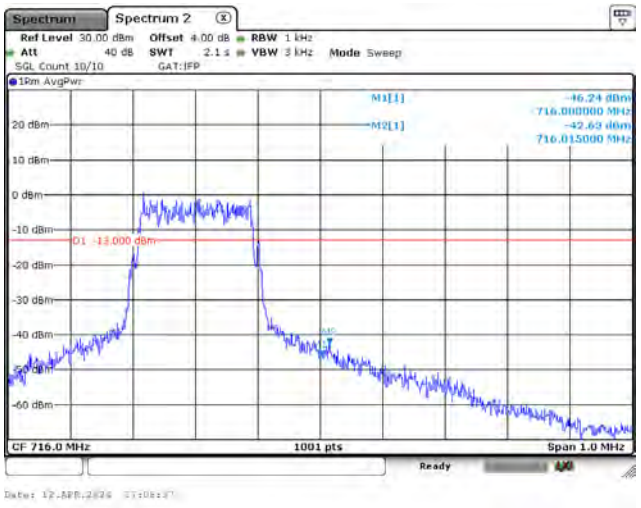
Mode 13: LTE NB-IoT Band 70

3.75k_CH132974_BPSK_1RB0	3.75k_CH133120_BPSK_1RB47
	
3.75k_CH132974_QPSK_1RB0	3.75k_CH133120_QPSK_1RB47
	
15k_CH132974_BPSK_1RB0	15k_CH133120_BPSK_1RB11
	

15k_CH132974_QPSK_1RB0	15k_CH133120_QPSK_1RB11
	
15k_CH132974_QPSK_12RB0	**15k_CH133120_QPSK_12RB0**
	

Mode 14: LTE NB-IoT Band 85

3.75k_Ch134004_BPSK_1RB0	3.75k_Ch134180_BPSK_1RB47
	
3.75k_Ch134004_QPSK_1RB0	3.75k_Ch134180_QPSK_1RB47
	
15k_Ch134004_BPSK_1RB0	15k_Ch134180_BPSK_1RB11
	

15k_Ch134004_QPSK_1RB0	15k_Ch134180_QPSK_1RB11
	
15k_Ch134004_QPSK_12RB0	15k_Ch134180_QPSK_12RB0
	

Appendix F. Test Result of Frequency Stability

Mode 1: LTE Cat-M1 Band 2 / 25

LTE Cat-M1 Band 2 / 25 / 1.4 MHz / 1850.7 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.86	0.0010
3.70	1.54	0.0008
2.50	1.14	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.42	0.0008
-20	1.45	0.0008
-10	1.28	0.0007
0	0.14	0.0001
10	0.23	0.0001
20	1.65	0.0009
30	0.47	0.0003
40	0.54	0.0003
50	0.52	0.0003
60	1.41	0.0008
70	1.66	0.0009

LTE Cat-M1 Band 2 / 25 / 1.4 MHz / 1882.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	0.74	0.0004
3.70	1.75	0.0009
2.50	1.00	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.30	0.0007
-20	1.75	0.0009
-10	1.11	0.0006
0	1.04	0.0006
10	1.30	0.0007
20	1.74	0.0009
30	1.61	0.0009
40	1.60	0.0008
50	1.27	0.0007
60	2.29	0.0012
70	2.29	0.0012

LTE Cat-M1 Band 2 / 25 / 1.4 MHz / 1914.3 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	2.56	0.0013
3.70	2.96	0.0015
2.50	2.63	0.0014

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.39	0.0012
-20	2.59	0.0014
-10	2.47	0.0013
0	2.15	0.0011
10	2.27	0.0012
20	2.84	0.0015
30	3.01	0.0016
40	1.44	0.0008
50	2.32	0.0012
60	2.27	0.0012
70	2.92	0.0015

LTE Cat-M1 Band 2 / 25 / 3 MHz / 1851.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.09	0.0006
3.70	1.54	0.0008
2.50	1.57	0.0008

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.17	0.0001
-20	0.61	0.0003
-10	0.71	0.0004
0	0.54	0.0003
10	0.91	0.0005
20	1.01	0.0005
30	0.67	0.0004
40	1.63	0.0009
50	0.74	0.0004
60	1.91	0.0010
70	1.84	0.0010

LTE Cat-M1 Band 2 / 25 / 3 MHz / 1882.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	2.05	0.0011
3.70	1.75	0.0009
2.50	1.26	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.12	0.0011
-20	0.82	0.0004
-10	1.87	0.0010
0	1.19	0.0006
10	0.22	0.0001
20	1.21	0.0006
30	1.81	0.0010
40	0.92	0.0005
50	1.19	0.0006
60	1.62	0.0009
70	1.22	0.0006

LTE Cat-M1 Band 2 / 25 / 3 MHz / 1913.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	2.43	0.0013
3.70	2.96	0.0015
2.50	2.06	0.0011

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	3.01	0.0016
-20	2.57	0.0013
-10	2.79	0.0015
0	1.44	0.0008
10	2.57	0.0013
20	2.43	0.0013
30	2.40	0.0013
40	1.78	0.0009
50	2.46	0.0013
60	3.44	0.0018
70	1.90	0.0010

LTE Cat-M1 Band 2 / 25 / 5 MHz / 1852.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.19	0.0006
3.70	1.54	0.0008
2.50	0.76	0.0004

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.33	0.0007
-20	0.97	0.0005
-10	0.36	0.0002
0	1.19	0.0006
10	1.53	0.0008
20	1.61	0.0009
30	0.48	0.0003
40	0.83	0.0004
50	0.61	0.0003
60	0.42	0.0002
70	1.38	0.0007

LTE Cat-M1 Band 2 / 25 / 5 MHz / 1882.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.57	0.0008
3.70	1.75	0.0009
2.50	1.27	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.89	0.0010
-20	1.84	0.0010
-10	1.05	0.0006
0	0.31	0.0002
10	0.47	0.0002
20	0.88	0.0005
30	1.32	0.0007
40	1.79	0.0010
50	1.10	0.0006
60	1.01	0.0005
70	1.32	0.0007

LTE Cat-M1 Band 2 / 25 / 5 MHz / 1912.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.91	0.0010
3.70	2.96	0.0015
2.50	2.90	0.0015

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.96	0.0015
-20	1.99	0.0010
-10	2.29	0.0012
0	2.34	0.0012
10	2.83	0.0015
20	2.19	0.0011
30	2.58	0.0013
40	2.28	0.0012
50	3.28	0.0017
60	2.66	0.0014
70	2.18	0.0011

LTE Cat-M1 Band 2 / 25 / 10 MHz / 1855 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	0.75	0.0004
3.70	1.54	0.0008
2.50	1.38	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.52	0.0008
-20	0.93	0.0005
-10	0.57	0.0003
0	1.56	0.0008
10	0.73	0.0004
20	1.17	0.0006
30	0.70	0.0004
40	0.61	0.0003
50	1.39	0.0007
60	0.75	0.0004
70	1.23	0.0007

LTE Cat-M1 Band 2 / 25 / 10 MHz / 1882.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.79	0.0010
3.70	1.75	0.0009
2.50	1.52	0.0008

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.73	0.0009
-20	0.81	0.0004
-10	1.13	0.0006
0	1.56	0.0008
10	1.84	0.0010
20	1.28	0.0007
30	1.04	0.0006
40	0.99	0.0005
50	1.89	0.0010
60	1.60	0.0008
70	0.76	0.0004

LTE Cat-M1 Band 2 / 25 / 10 MHz / 1910 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	2.08	0.0011
3.70	2.96	0.0015
2.50	2.15	0.0011

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.20	0.0012
-20	3.16	0.0017
-10	2.43	0.0013
0	2.24	0.0012
10	2.82	0.0015
20	3.11	0.0016
30	1.88	0.0010
40	2.21	0.0012
50	2.94	0.0015
60	2.26	0.0012
70	2.07	0.0011

LTE Cat-M1 Band 2 / 25 / 15 MHz / 1857.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.57	0.0008
3.70	1.54	0.0008
2.50	0.58	0.0003

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.82	0.0010
-20	0.63	0.0003
-10	0.66	0.0004
0	2.23	0.0012
10	0.98	0.0005
20	0.45	0.0002
30	0.43	0.0002
40	0.62	0.0003
50	0.75	0.0004
60	1.13	0.0006
70	1.42	0.0008

LTE Cat-M1 Band 2 / 25 / 15 MHz / 1882.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	0.66	0.0004
3.70	1.75	0.0009
2.50	1.81	0.0010

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	-0.17	-0.0001
-20	1.53	0.0008
-10	1.70	0.0009
0	1.27	0.0007
10	0.66	0.0004
20	1.39	0.0007
30	0.76	0.0004
40	1.48	0.0008
50	1.33	0.0007
60	1.74	0.0009
70	2.00	0.0011

LTE Cat-M1 Band 2 / 25 / 15 MHz / 1907.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	2.50	0.0013
3.70	2.96	0.0016
2.50	2.60	0.0014

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.89	0.0015
-20	2.83	0.0015
-10	3.14	0.0016
0	3.32	0.0017
10	2.64	0.0014
20	2.51	0.0013
30	2.98	0.0016
40	2.19	0.0011
50	2.91	0.0015
60	2.80	0.0015
70	2.54	0.0013

LTE Cat-M1 Band 2 / 25 / 20 MHz / 1860 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	0.85	0.0005
3.70	1.54	0.0008
2.50	0.85	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.00	0.0005
-20	1.76	0.0009
-10	0.87	0.0005
0	1.27	0.0007
10	1.42	0.0008
20	0.07	0.0000
30	0.34	0.0002
40	0.57	0.0003
50	1.27	0.0007
60	0.75	0.0004
70	1.16	0.0006

LTE Cat-M1 Band 2 / 25 / 20 MHz / 1882.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	0.96	0.0005
3.70	1.75	0.0009
2.50	0.96	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.80	0.0004
-20	0.68	0.0004
-10	1.74	0.0009
0	1.37	0.0007
10	0.18	0.0001
20	1.52	0.0008
30	1.59	0.0008
40	1.42	0.0008
50	1.36	0.0007
60	0.78	0.0004
70	1.90	0.0010

LTE Cat-M1 Band 2 / 25 / 20 MHz / 1905 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	2.47	0.0013
3.70	2.96	0.0016
2.50	2.04	0.0011

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.50	0.0008
-20	2.46	0.0013
-10	3.46	0.0018
0	2.63	0.0014
10	1.85	0.0010
20	3.17	0.0017
30	2.33	0.0012
40	2.09	0.0011
50	2.99	0.0016
60	2.67	0.0014
70	2.04	0.0011

Mode 2: LTE Cat-M1 Band 4 / 66

LTE Cat-M1 Band 4 / 66 / 1.4 MHz / 1710.7 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.41	0.0008
3.70	2.03	0.0012
2.50	1.67	0.0010

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.45	0.0008
-20	1.58	0.0009
-10	1.58	0.0009
0	2.09	0.0012
10	1.92	0.0011
20	0.55	0.0003
30	2.14	0.0013
40	1.69	0.0010
50	1.04	0.0006
60	1.03	0.0006
70	1.18	0.0007

LTE Cat-M1 Band 4 / 66 / 1.4 MHz / 1745 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.27	0.0007
3.70	1.59	0.0009
2.50	1.61	0.0009

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.86	0.0005
-20	1.74	0.0010
-10	1.09	0.0006
0	1.83	0.0010
10	0.99	0.0006
20	0.39	0.0002
30	1.42	0.0008
40	0.65	0.0004
50	1.02	0.0006
60	0.87	0.0005
70	0.27	0.0002

LTE Cat-M1 Band 4 / 66 / 1.4 MHz / 1779.3 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.24	0.0007
3.70	1.60	0.0009
2.50	0.86	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.73	0.0010
-20	1.55	0.0009
-10	1.14	0.0006
0	0.66	0.0004
10	1.06	0.0006
20	1.65	0.0009
30	1.65	0.0009
40	0.42	0.0002
50	0.53	0.0003
60	1.42	0.0008
70	0.73	0.0004

LTE Cat-M1 Band 4 / 66 / 3 MHz / 1711.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.66	0.0010
3.70	2.03	0.0012
2.50	1.21	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.50	0.0009
-20	0.83	0.0005
-10	1.19	0.0007
0	1.10	0.0006
10	1.93	0.0011
20	0.59	0.0003
30	1.10	0.0006
40	0.94	0.0005
50	1.84	0.0011
60	1.78	0.0010
70	1.35	0.0008

LTE Cat-M1 Band 4 / 66 / 3 MHz / 1745 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	0.61	0.0003
3.70	1.59	0.0009
2.50	1.24	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.83	0.0005
-20	0.96	0.0006
-10	1.63	0.0009
0	0.95	0.0005
10	1.50	0.0009
20	0.49	0.0003
30	0.49	0.0003
40	1.02	0.0006
50	0.88	0.0005
60	0.85	0.0005
70	1.11	0.0006

LTE Cat-M1 Band 4 / 66 / 3 MHz / 1778.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	0.99	0.0006
3.70	1.60	0.0009
2.50	0.67	0.0004

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.85	0.0010
-20	1.87	0.0011
-10	1.04	0.0006
0	0.93	0.0005
10	1.61	0.0009
20	0.75	0.0004
30	1.32	0.0007
40	1.84	0.0010
50	0.89	0.0005
60	0.26	0.0001
70	1.24	0.0007

LTE Cat-M1 Band 4 / 66 / 5 MHz / 1712.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.56	0.0009
3.70	2.03	0.0012
2.50	2.21	0.0013

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.21	0.0013
-20	1.46	0.0009
-10	1.18	0.0007
0	2.05	0.0012
10	2.36	0.0014
20	1.05	0.0006
30	2.00	0.0012
40	1.55	0.0009
50	1.11	0.0006
60	2.46	0.0014
70	1.91	0.0011

LTE Cat-M1 Band 4 / 66 / 5 MHz / 1745 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.25	0.0007
3.70	1.59	0.0009
2.50	1.19	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.42	0.0008
-20	1.36	0.0008
-10	1.32	0.0008
0	1.35	0.0008
10	2.40	0.0014
20	1.38	0.0008
30	0.54	0.0003
40	0.75	0.0004
50	1.53	0.0009
60	0.57	0.0003
70	1.49	0.0009

LTE Cat-M1 Band 4 / 66 / 5 MHz / 1777.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.07	0.0006
3.70	1.60	0.0009
2.50	0.87	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.81	0.0005
-20	0.17	0.0001
-10	1.88	0.0011
0	1.19	0.0007
10	0.35	0.0002
20	0.67	0.0004
30	0.92	0.0005
40	0.64	0.0004
50	1.20	0.0007
60	0.84	0.0005
70	1.32	0.0007

LTE Cat-M1 Band 4 / 66 / 10 MHz / 1715 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.90	0.0011
3.70	2.03	0.0012
2.50	0.77	0.0004

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.73	0.0010
-20	0.78	0.0005
-10	1.12	0.0007
0	1.76	0.0010
10	2.31	0.0013
20	1.18	0.0007
30	1.50	0.0009
40	2.26	0.0013
50	2.20	0.0013
60	2.29	0.0013
70	1.80	0.0010

LTE Cat-M1 Band 4 / 66 / 10 MHz / 1745 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.06	0.0006
3.70	1.59	0.0009
2.50	0.58	0.0003

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.81	0.0005
-20	1.00	0.0006
-10	1.14	0.0007
0	1.25	0.0007
10	2.02	0.0012
20	1.00	0.0006
30	0.89	0.0005
40	1.03	0.0006
50	1.12	0.0006
60	-0.07	0.0000
70	1.16	0.0007

LTE Cat-M1 Band 4 / 66 / 10 MHz / 1775 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	0.52	0.0003
3.70	1.60	0.0009
2.50	0.19	0.0001

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.58	0.0003
-20	0.94	0.0005
-10	1.40	0.0008
0	0.78	0.0004
10	2.09	0.0012
20	1.25	0.0007
30	0.19	0.0001
40	0.83	0.0005
50	0.80	0.0005
60	1.00	0.0006
70	0.55	0.0003

LTE Cat-M1 Band 4 / 66 / 15 MHz / 1717.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.95	0.0011
3.70	2.03	0.0012
2.50	1.57	0.0009

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.10	0.0006
-20	0.90	0.0005
-10	2.22	0.0013
0	1.53	0.0009
10	0.68	0.0004
20	2.13	0.0012
30	1.80	0.0010
40	0.78	0.0005
50	1.15	0.0007
60	0.92	0.0005
70	2.07	0.0012

LTE Cat-M1 Band 4 / 66 / 15 MHz / 1745 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.01	0.0006
3.70	1.59	0.0009
2.50	0.91	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.36	0.0002
-20	0.73	0.0004
-10	1.99	0.0011
0	1.41	0.0008
10	1.11	0.0006
20	1.34	0.0008
30	1.84	0.0011
40	0.64	0.0004
50	1.14	0.0007
60	2.01	0.0012
70	2.12	0.0012

LTE Cat-M1 Band 4 / 66 / 15 MHz / 1772.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	2.22	0.0013
3.70	1.60	0.0009
2.50	0.36	0.0002

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.40	0.0008
-20	1.46	0.0008
-10	0.60	0.0003
0	0.16	0.0001
10	1.03	0.0006
20	1.14	0.0006
30	1.42	0.0008
40	1.12	0.0006
50	1.91	0.0011
60	0.86	0.0005
70	1.24	0.0007

LTE Cat-M1 Band 4 / 66 / 20 MHz / 1720 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.91	0.0011
3.70	2.03	0.0012
2.50	1.73	0.0010

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.37	0.0002
-20	1.70	0.0010
-10	2.28	0.0013
0	2.22	0.0013
10	1.69	0.0010
20	1.66	0.0010
30	1.54	0.0009
40	0.78	0.0005
50	1.23	0.0007
60	2.19	0.0013
70	1.60	0.0009

LTE Cat-M1 Band 4 / 66 / 20 MHz / 1745 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.84	0.0011
3.70	1.59	0.0009
2.50	0.76	0.0004

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.32	0.0008
-20	1.17	0.0007
-10	1.56	0.0009
0	1.28	0.0007
10	1.45	0.0008
20	1.07	0.0006
30	1.68	0.0010
40	1.51	0.0009
50	0.13	0.0001
60	0.34	0.0002
70	1.78	0.0010

LTE Cat-M1 Band 4 / 66 / 20 MHz / 1770 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	1.24	0.0007
3.70	1.60	0.0009
2.50	0.88	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.76	0.0004
-20	2.03	0.0011
-10	0.60	0.0003
0	2.22	0.0013
10	1.38	0.0008
20	1.24	0.0007
30	0.49	0.0003
40	1.23	0.0007
50	1.45	0.0008
60	1.52	0.0009
70	1.03	0.0006

Mode 3: LTE Cat-M1 Band 5 / 26 (Part 22)

LTE Cat-M1 Band 5 / 26 (Part 22) / 1.4 MHz / 824.7 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	2.59	0.0031
3.70	2.88	0.0035
2.50	2.36	0.0029

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.94	0.0024
-20	1.63	0.0020
-10	2.36	0.0029
0	1.80	0.0022
10	2.40	0.0029
20	2.83	0.0034
30	2.29	0.0028
40	2.32	0.0028
50	2.01	0.0024
60	2.35	0.0028
70	2.13	0.0026

LTE Cat-M1 Band 5 / 26 (Part 22) / 1.4 MHz / 836.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	0.96	0.0011
3.70	1.75	0.0021
2.50	0.61	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.19	0.0014
-20	1.37	0.0016
-10	2.30	0.0027
0	1.76	0.0021
10	0.49	0.0006
20	1.45	0.0017
30	1.44	0.0017
40	0.36	0.0004
50	1.24	0.0015
60	1.40	0.0017
70	1.00	0.0012

LTE Cat-M1 Band 5 / 26 (Part 22) / 1.4 MHz / 848.3 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.35	4.36	0.0051
3.70	4.11	0.0048
2.50	4.84	0.0057

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	3.39	0.0040
-20	3.06	0.0036
-10	3.29	0.0039
0	4.41	0.0052
10	3.42	0.0040
20	3.63	0.0043
30	3.39	0.0040
40	3.93	0.0046
50	3.65	0.0043
60	4.72	0.0056
70	3.57	0.0042