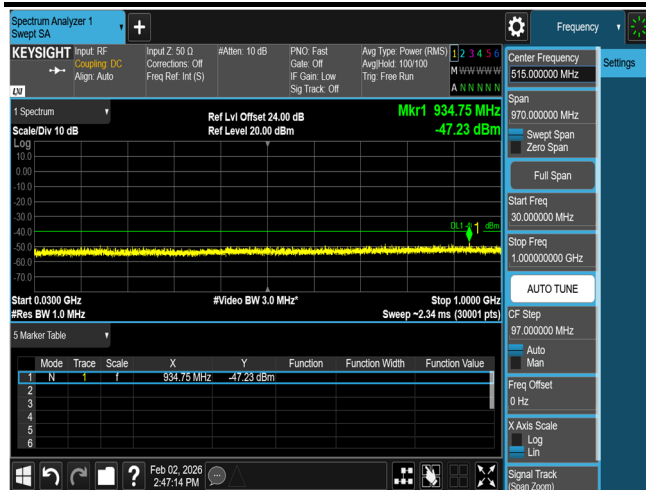
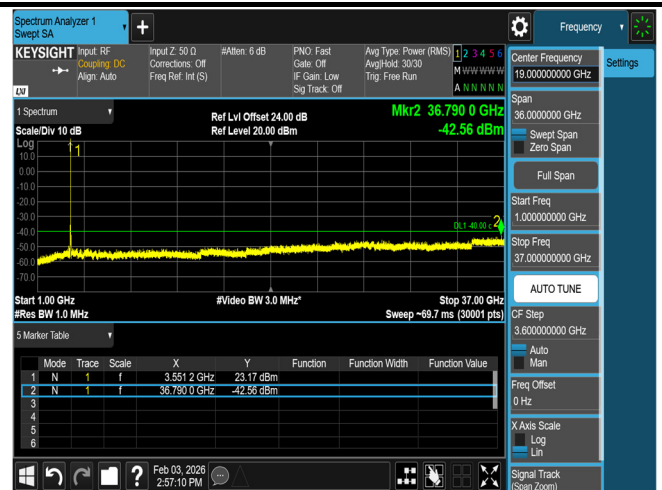




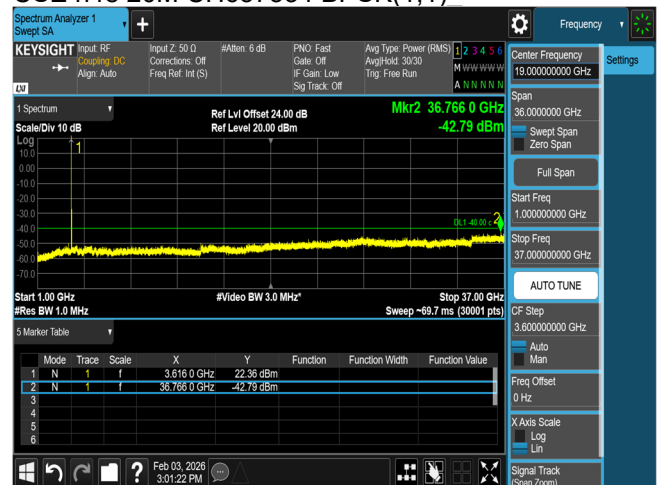
CSE n48 20M CH637334 BPSK(1,1)



CSE n48 20M CH637334 BPSK(1,1)



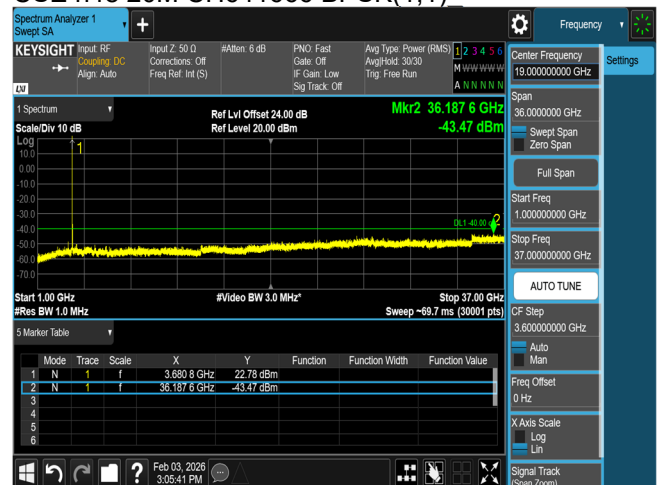
CSE n48 20M CH641666 BPSK(1,1)



CSE n48 20M CH641666 BPSK(1,1)



CSE n48 20M CH646000 BPSK(1,1)



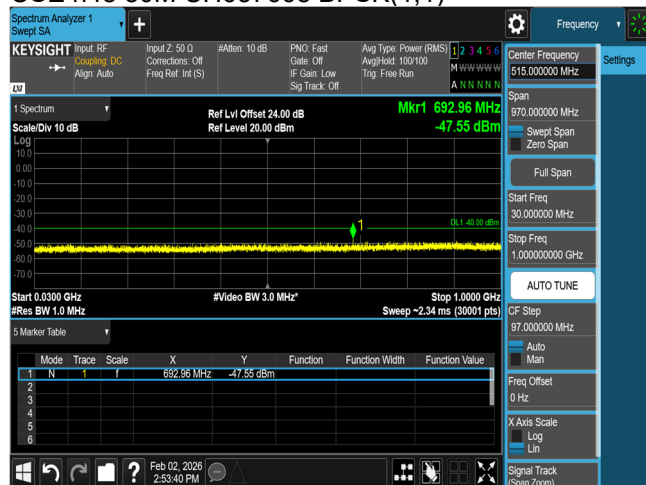
CSE n48 20M CH646000 BPSK(1,1)_



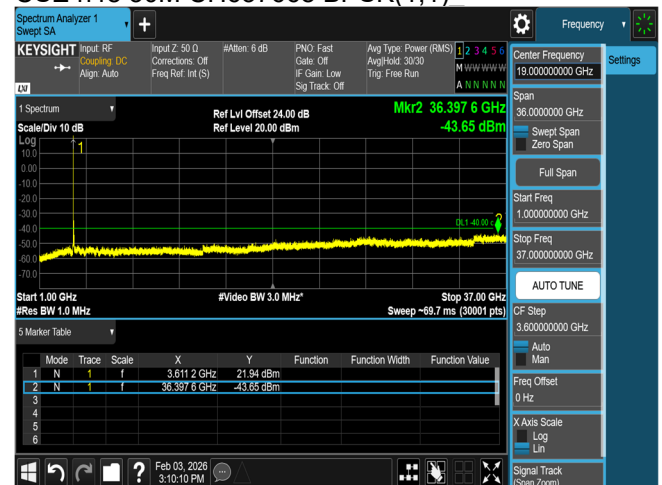
CSE n48 30M CH637668 BPSK(1,1)



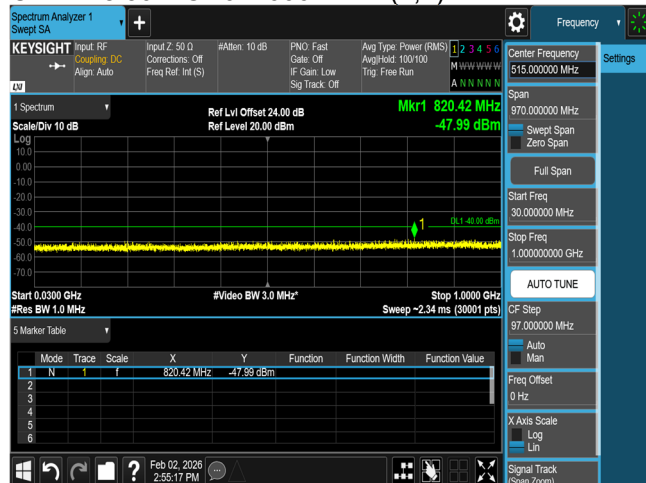
CSE n48 30M CH637668 BPSK(1,1)



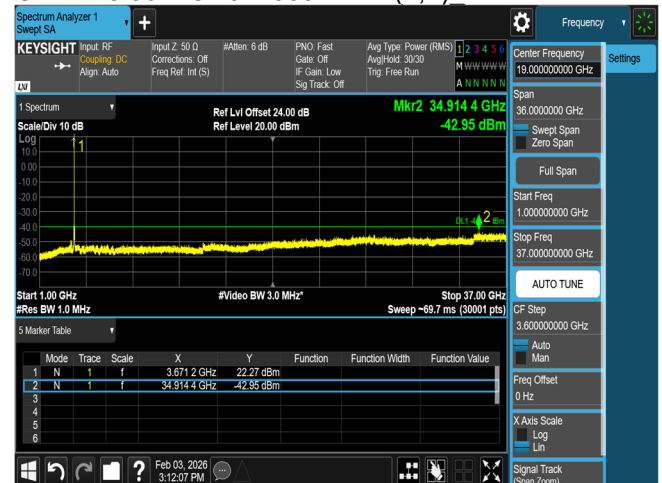
CSE n48 30M CH641666 BPSK(1,1)



CSE n48 30M CH641666 BPSK(1,1)



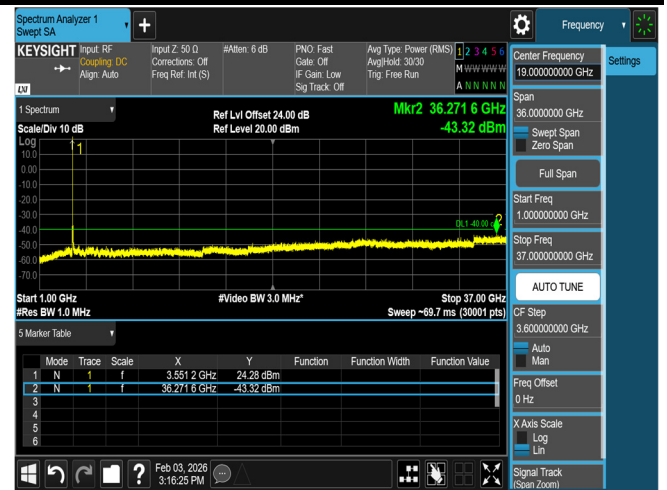
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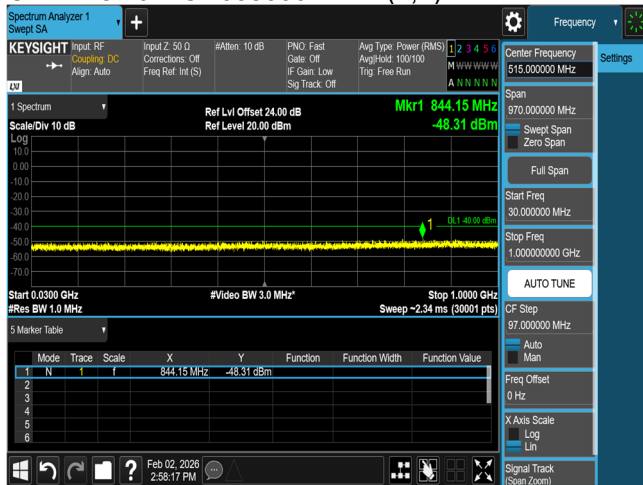
CSE n48 30M CH645666 BPSK(1,1)_



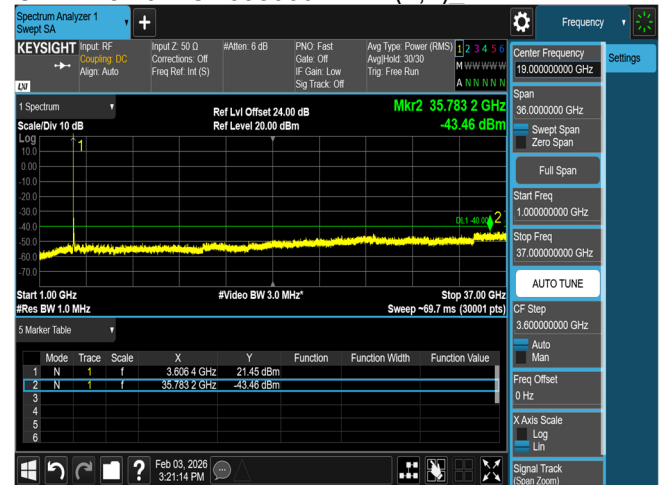
CSE n48 40M CH638000 BPSK(1,1)



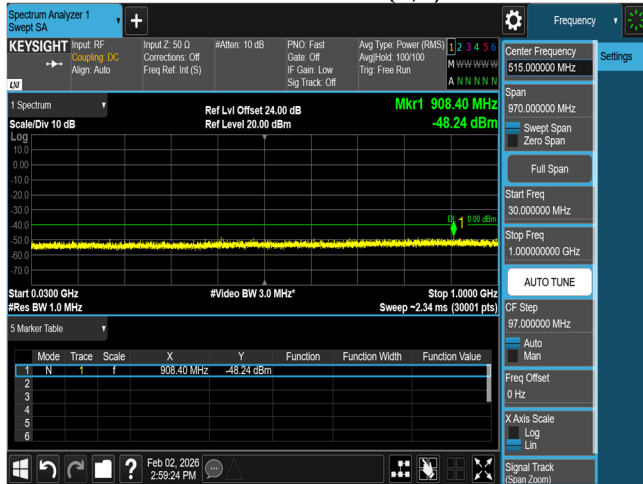
CSE n48 40M CH638000 BPSK(1,1)



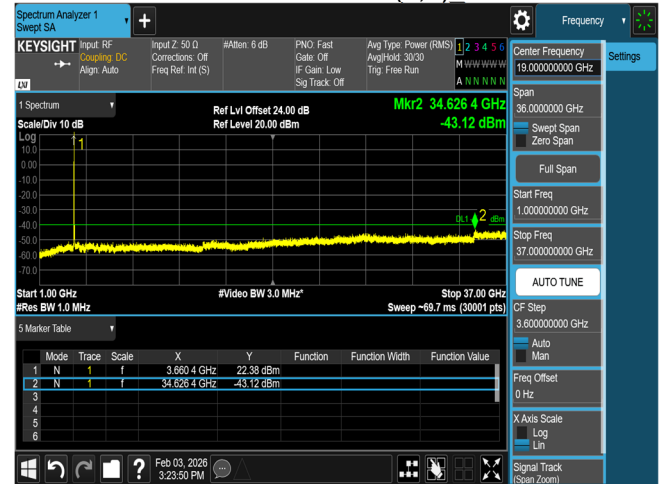
CSE n48 40M CH641666 BPSK(1,1)



CSE n48 40M CH641666 BPSK(1,1)



CSE n48 40M CH645332 BPSK(1,1)

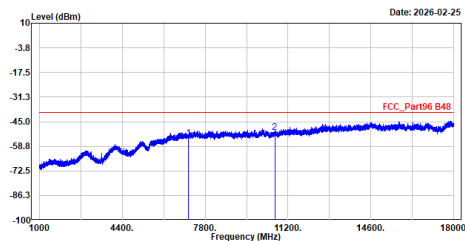


CSE n48 40M CH645332 BPSK(1,1)_

Appendix D.2 Test Result of Field Strength of Spurious Radiation

Mode 1: LTE B48(42)

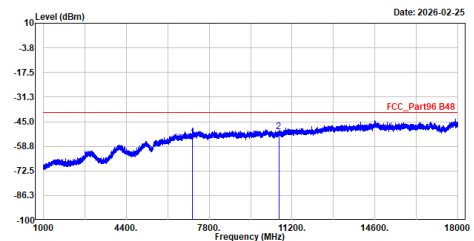
Site :HY-CB03
Condition :3m ,Horizontal
Mode :LTE_B48_5M_QPSK_IRB0_CH55265
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	7105.000	-54.53	-40.00	-14.53	-58.95	4.42	Peak
2	10657.500	-51.05	-40.00	-11.05	-58.72	7.67	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 (dBuVn) to EIRP (dBm)
= $107 + 20\log(3) - 104.8 = 11.8$ dB
5. The other emission levels were very low against the limit.

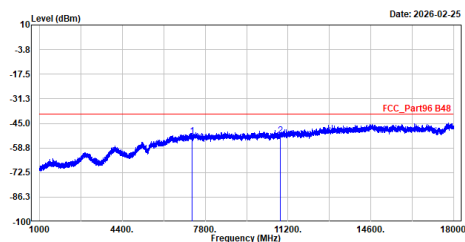
Site :HY-CB03
Condition :3m ,Vertical
Mode :LTE_B48_5M_QPSK_IRB0_CH55265
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	7105.000	-54.07	-40.00	-14.07	-58.49	4.42	Peak
2	10657.500	-50.53	-40.00	-10.53	-58.20	7.67	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 (dBuVn) to EIRP (dBm)
= $107 + 20\log(3) - 104.8 = 11.8$ dB
5. The other emission levels were very low against the limit.

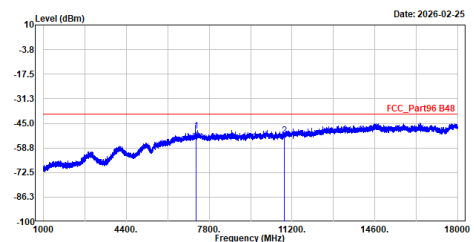
Site :HY-CB03
Condition :3m ,Horizontal
Mode :LTE_B48_5M_QPSK_IRB0_CH55990
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	7250.000	-52.27	-40.00	-12.27	-57.03	4.76	Peak
2	10875.000	-51.84	-40.00	-11.84	-59.86	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 (dBuVn) to EIRP (dBm)
= $107 + 20\log(3) - 104.8 = 11.8$ dB
5. The other emission levels were very low against the limit.

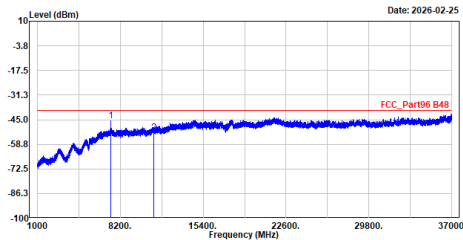
Site :HY-CB03
Condition :3m ,Vertical
Mode :LTE_B48_5M_QPSK_IRB0_CH55990
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	7250.000	-49.52	-40.00	-9.52	-54.27	4.75	Peak
2	10875.000	-51.77	-40.00	-11.77	-59.79	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 (dBuVn) to EIRP (dBm)
= $107 + 20\log(3) - 104.8 = 11.8$ dB
5. The other emission levels were very low against the limit.

Site :HY-CB03
Condition :3m ,Horizontal
Mode :LTE_B48_5M_QPSK_1R80_CH56715
Test BY :Ashton

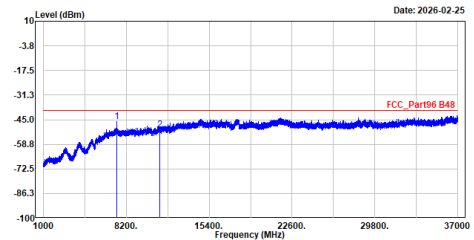


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	7395.000	-45.58	-40.00	-5.58	-50.48	4.90	Peak
2	11092.500	-52.31	-40.00	-12.31	-61.24	8.93	Peak

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 (dBuV/m) to EIRP (dBm)
 $= 107 + 20\log(3) - 104.8 = 11.8 \text{ dB}$
5. The other emission levels were very low against the limit.

Site :HY-CB03
Condition :3m ,Vertical
Mode :LTE_B48_5M_QPSK_1R80_CH56715
Test BY :Ashton

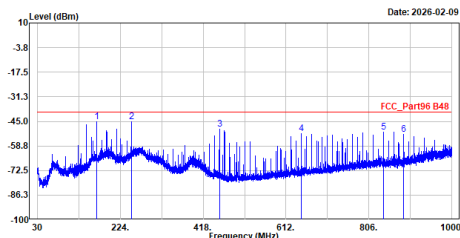


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	7395.000	-46.02	-40.00	-6.02	-50.92	4.90	Peak
2	11092.500	-50.76	-40.00	-10.76	-59.69	8.93	Peak

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 (dBuV/m) to EIRP (dBm)
 $= 107 + 20\log(3) - 104.8 = 11.8 \text{ dB}$
5. The other emission levels were very low against the limit.

Site :HY-CB03
Condition :3m ,Horizontal
Mode :LTE_B48_5M_QPSK_1R80_CH56715
Test BY :Ashton

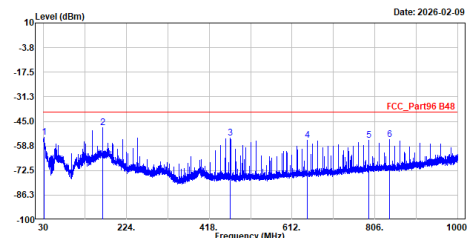


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	168.031	-45.01	-40.00	-5.01	-32.54	-12.47	Peak
2	249.996	-45.41	-40.00	-5.41	-32.35	-13.06	Peak
3	456.121	-49.41	-40.00	-9.41	-42.30	-7.11	Peak
4	648.084	-51.75	-40.00	-11.75	-48.55	-3.20	Peak
5	840.144	-51.15	-40.00	-11.15	-50.71	-0.44	Peak
6	888.159	-52.18	-40.00	-12.18	-52.13	-0.05	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 (dBuV/m) to EIRP (dBm)
 $= 107 + 20\log(3) - 104.8 = 11.8 \text{ dB}$
5. The other emission levels were very low against the limit.

Site :HY-CB03
Condition :3m ,Vertical
Mode :LTE_B48_5M_QPSK_1R80_CH56715
Test BY :Ashton



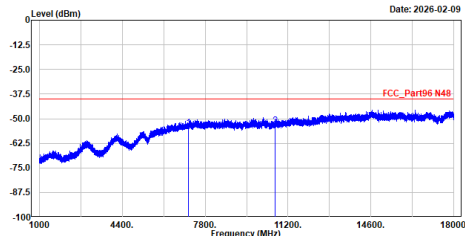
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	31.067	-53.90	-40.00	-13.90	-40.74	-13.16	Peak
2	168.031	-48.34	-40.00	-8.34	-35.87	-12.47	Peak
3	468.052	-54.28	-40.00	-14.28	-47.41	-6.87	Peak
4	648.084	-55.51	-40.00	-15.51	-52.31	-3.20	Peak
5	792.129	-55.52	-40.00	-15.52	-54.70	-0.82	Peak
6	840.144	-55.29	-40.00	-15.29	-54.85	-0.44	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 (dBuV/m) to EIRP (dBm)
 $= 107 + 20\log(3) - 104.8 = 11.8 \text{ dB}$
5. The other emission levels were very low against the limit.

Mode 2: 5G NR n48

Site :HY-CB03
Condition :3m ,Horizontal
Mode :5GNR_n48_10M_BPSK_1RB12_CH637000
Test BY :Rock

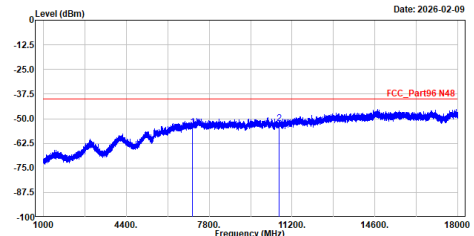


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	Line	Limit	Level	dB	
1	7110.000	-54.60	-40.00	-14.60	-59.06	4.46	Peak
2	10665.000	-53.72	-40.00	-13.72	-61.44	7.72	Peak

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.

Site :HY-CB03
Condition :3m ,Vertical
Mode :5GNR_n48_10M_BPSK_1RB12_CH637000
Test BY :Rock

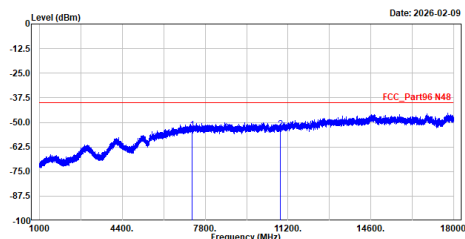


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	Line	Limit	Level	dB	
1	7110.000	-54.21	-40.00	-14.21	-58.67	4.46	Peak
2	10665.000	-52.36	-40.00	-12.36	-60.08	7.72	Peak

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.

Site :HY-CB03
Condition :3m ,Horizontal
Mode :5GNR_n48_10M_BPSK_1RB12_CH641666
Test BY :Rock

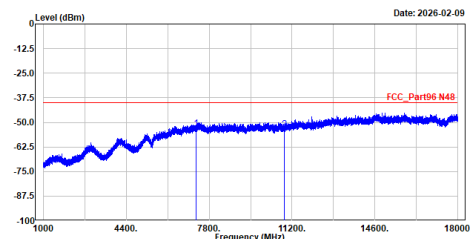


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	Line	Limit	Level	dB	
1	7249.980	-54.00	-40.00	-14.00	-58.76	4.76	Peak
2	10874.970	-53.50	-40.00	-13.50	-61.52	8.02	Peak

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.

Site :HY-CB03
Condition :3m ,Vertical
Mode :5GNR_n48_10M_BPSK_1RB12_CH641666
Test BY :Rock

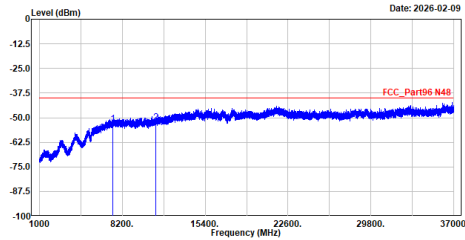


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	Line	Limit	Level	dB	
1	7249.980	-53.38	-40.00	-13.38	-58.14	4.76	Peak
2	10874.970	-53.65	-40.00	-13.65	-61.67	8.02	Peak

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.

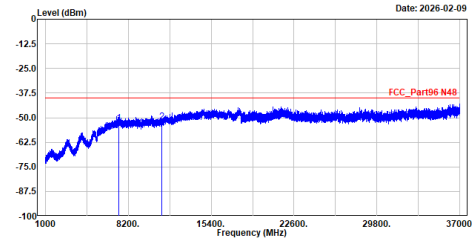
Site :HY-CB03
Condition :3m ,Horizontal
Mode :5GNR_n48_10M_BPSK_1RB12_CH646332
Test BY :Rock



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	7389.960	-53.15	-40.00	-13.15	-58.05	4.90	Peak
2	11884.940	-52.44	-40.00	-12.44	-61.36	8.92	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 (dBuV/m) to EIRP (dBm)
= $107 + 20\log(3) - 104.8 = 11.8$ dB
5. The other emission levels were very low against the limit.

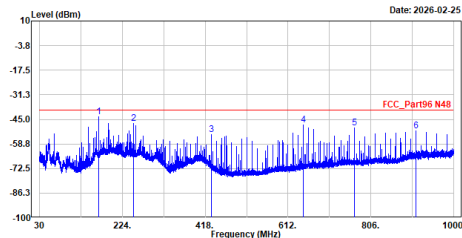
Site :HY-CB03
Condition :3m ,Vertical
Mode :5GNR_n48_10M_BPSK_1RB12_CH646332
Test BY :Rock



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	7389.960	-52.64	-40.00	-12.64	-57.54	4.90	Peak
2	11884.940	-51.93	-40.00	-11.93	-60.85	8.92	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 (dBuV/m) to EIRP (dBm)
= $107 + 20\log(3) - 104.8 = 11.8$ dB
5. The other emission levels were very low against the limit.

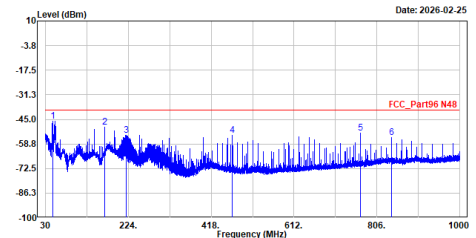
Site :HY-CB03
Condition :3m ,Horizontal
Mode :5GNR_n48_10M_BPSK_1RB12_CH646332
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	167.983	-43.63	-40.00	-3.63	-31.16	-12.47	Peak
2	249.948	-47.44	-40.00	-7.44	-34.38	-13.06	Peak
3	432.017	-53.45	-40.00	-13.45	-45.61	-7.84	Peak
4	648.084	-48.25	-40.00	-8.25	-45.05	-3.20	Peak
5	768.073	-49.91	-40.00	-9.91	-48.82	-1.09	Peak
6	912.070	-51.46	-40.00	-11.46	-51.82	0.36	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 (dBuV/m) to EIRP (dBm)
= $107 + 20\log(3) - 104.8 = 11.8$ dB
5. The other emission levels were very low against the limit.

Site :HY-CB03
Condition :3m ,Vertical
Mode :5GNR_n48_10M_BPSK_1RB12_CH646332
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	Limit	Level	dB	
1	46.830	-45.84	-40.00	-5.84	-34.06	-11.78	Peak
2	167.983	-49.31	-40.00	-9.31	-36.84	-12.47	Peak
3	219.199	-53.82	-40.00	-13.82	-39.05	-14.77	Peak
4	468.052	-53.82	-40.00	-13.82	-46.95	-6.87	Peak
5	768.073	-52.86	-40.00	-12.86	-51.77	-1.09	Peak
6	840.096	-55.05	-40.00	-15.05	-54.61	-0.44	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 (dBuV/m) to EIRP (dBm)
= $107 + 20\log(3) - 104.8 = 11.8$ dB
5. The other emission levels were very low against the limit.

Appendix E. Test Result of Frequency Stability

Mode 1: LTE B48(42)

Temperature Variations

Temperature Interval(°C)	Test Channel	Deviation (kHz)				Limit (kHz)
		5M	10M	15M	20M	
-30	Mid	0.0088	0.0069	-0.0076	-0.0100	±8.88
-20	Mid	-0.0087	-0.0085	-0.0077	-0.0099	±8.88
-10	Mid	0.0074	-0.0055	0.0089	-0.0091	±8.88
0	Mid	0.0062	-0.0058	-0.0057	0.0082	±8.88
10	Mid	-0.0092	-0.0075	-0.0081	0.0086	±8.88
20	Mid	0.0098	-0.0094	0.0111	0.0109	±8.88
30	Mid	-0.0086	0.0092	0.0090	0.0084	±8.88
40	Mid	-0.0071	-0.0078	-0.0077	-0.0077	±8.88
50	Mid	0.0083	0.0080	-0.0089	-0.0071	±8.88

Voltage Variations

DC Voltage (V)	Test Channel	Deviation (kHz)				Limit (kHz)
		5M	10M	15M	20M	
4.715	Mid	0.0101	0.0093	-0.0118	0.0084	±8.88
4.1	Mid	0.0098	-0.0094	0.0111	0.0109	±8.88
3.485	Mid	-0.0079	-0.0084	-0.0095	0.0090	±8.88

Mode 2: 5G NR n48**Temperature Variations**

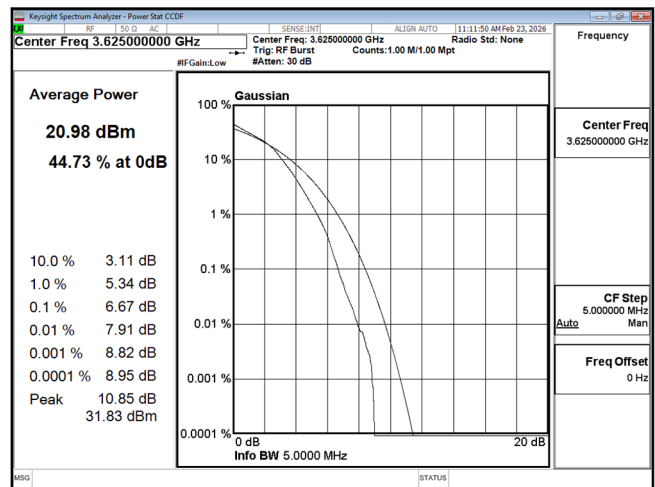
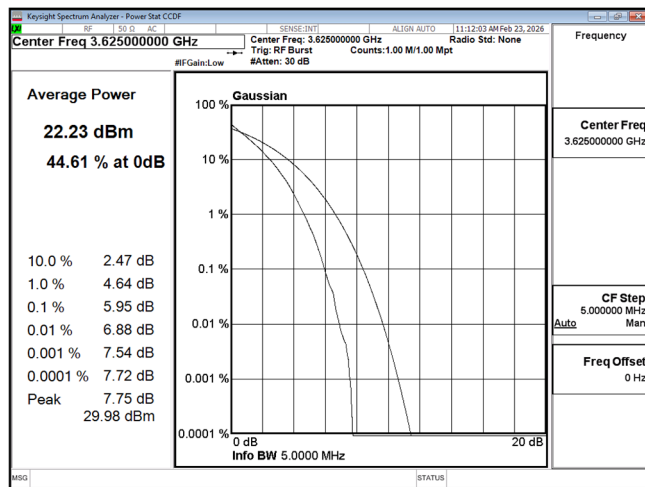
Temperature Interval(°C)	Test Channel	Deviation (kHz)					Limit (kHz)
		10M	15M	20M	30M	40M	
-30	Mid	-0.0114	0.0102	-0.0121	-0.0116	-0.0128	±8.88
-20	Mid	0.0106	-0.0111	0.0099	-0.0091	-0.0113	±8.88
-10	Mid	-0.0123	0.0106	-0.0130	0.0116	-0.0124	±8.88
0	Mid	-0.0097	0.0101	-0.0103	0.0090	0.0111	±8.88
10	Mid	-0.0116	-0.0119	0.0116	-0.0104	0.0119	±8.88
20	Mid	0.0096	-0.0113	-0.0103	-0.0093	0.0103	±8.88
30	Mid	0.0104	-0.0084	-0.0096	0.0084	-0.0095	±8.88
40	Mid	-0.0115	-0.0131	0.0129	0.0114	-0.0101	±8.88
50	Mid	0.0103	0.0093	0.0092	-0.0101	0.0121	±8.88

Voltage Variations

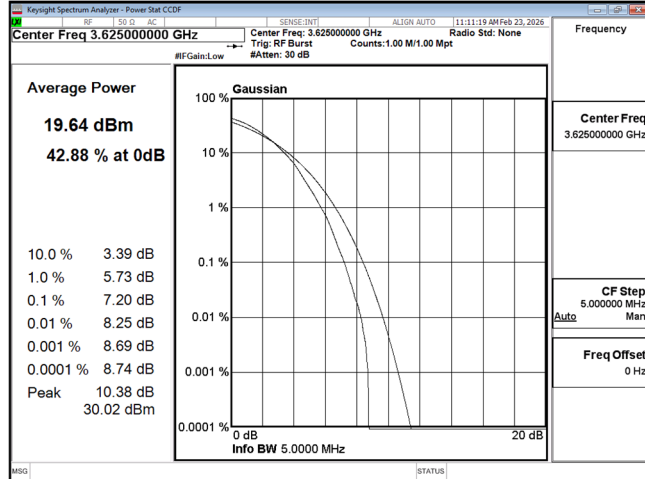
DC Voltage (V)	Test Channel	Deviation (kHz)					Limit (kHz)
		10M	15M	20M	30M	40M	
4.715	Mid	0.0106	-0.0100	0.0126	0.0107	0.0122	±8.88
4.1	Mid	0.0096	-0.0113	-0.0103	-0.0093	0.0103	±8.88
3.485	Mid	-0.0111	-0.0114	0.0100	-0.0101	-0.0102	±8.88

Appendix F. Test Result of Peak to Average Ratio

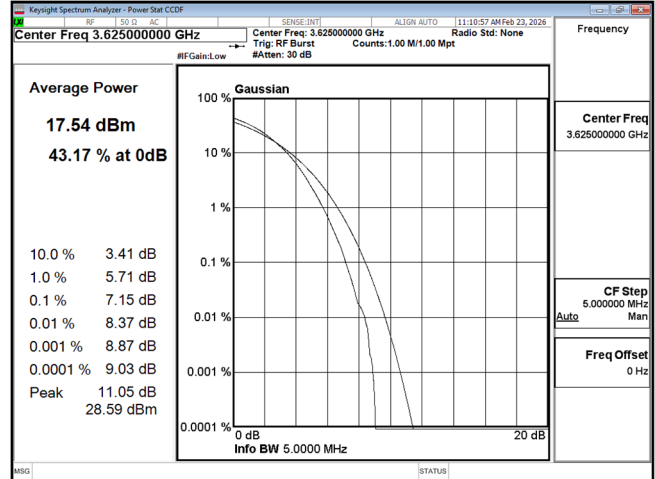
Mode 1: LTE B48(42)



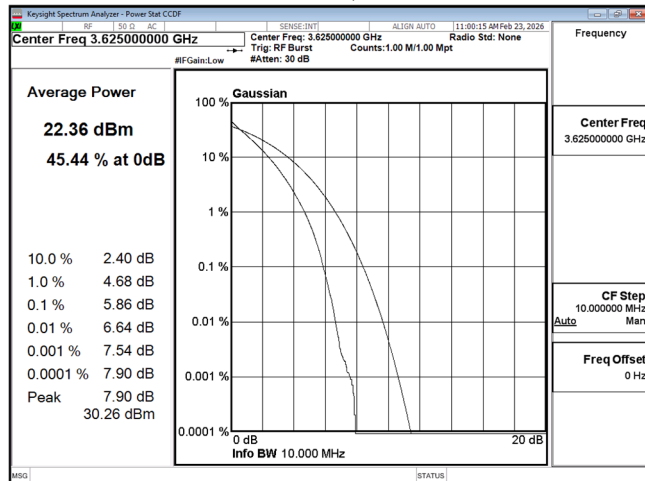
PTAR B48 5M CH55990 QPSK



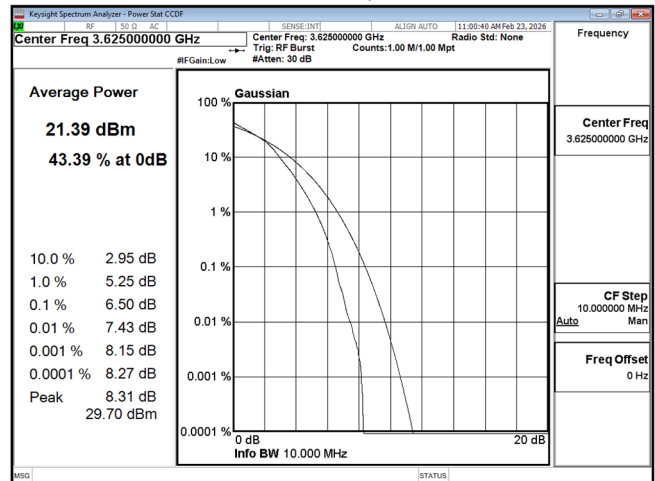
PTAR B48 5M CH55990 16QAM



PTAR B48 5M CH55990 64QAM



PTAR B48 5M CH55990 256QAM



PTAR B48 10M CH55990 QPSK

PTAR B48 10M CH55990 16QAM