

Appendix A. Test Result of RF Output Power

Measured values of RF Power Output (measured with Spectrum Analyzer in any 4kHz band)

Channel (MHz)	Conducted output power (dBm)	Antenna gain (dBi)	EIRP (dBm/4kHz)
1626.50	32.36	0	32.36
1660.50	29.20	0	29.20

Note:

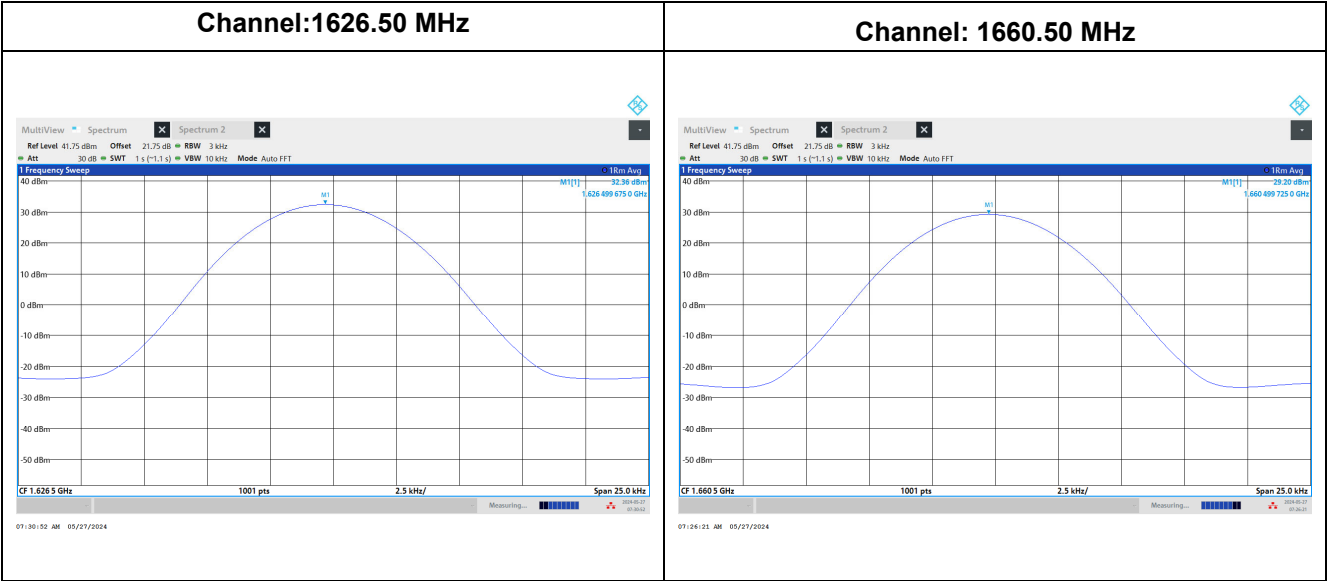
1. $EIRP(dBm) = \text{Conducted output power (dBm)} + \text{Antenna gain(dBi)}$
2. The insertion loss (external attenuator / RF cable assembly) and bandwidth correction factor (1.25 dB, when RBW 3 kHz was used) were included in the spectrum analyzer as the Offset.

Measured values of Total power

Channel (MHz)	Conducted output power (dBm)	Antenna gain (dBi)	EIRP (dBm)
1626.50	31.64	0	31.64
1660.50	28.53	0	28.53

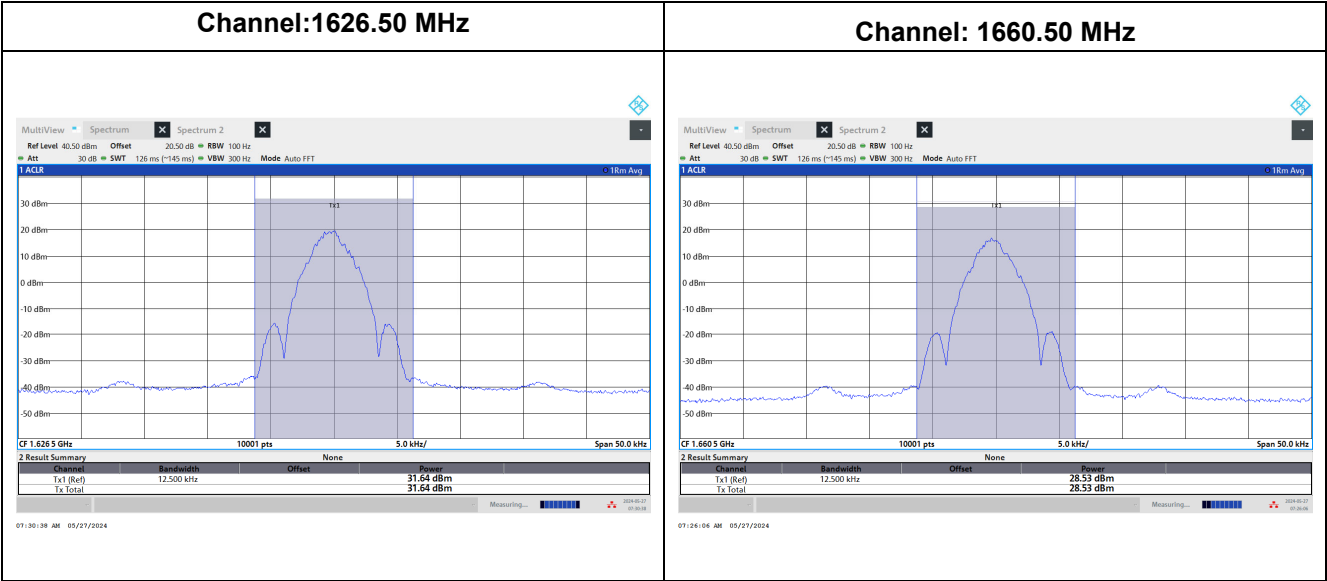
Note: $EIRP(dBm) = \text{Conducted output power (dBm)} + \text{Antenna gain(dBi)}$

RF Power Output (measured with Spectrum Analyzer in any 4kHz band)



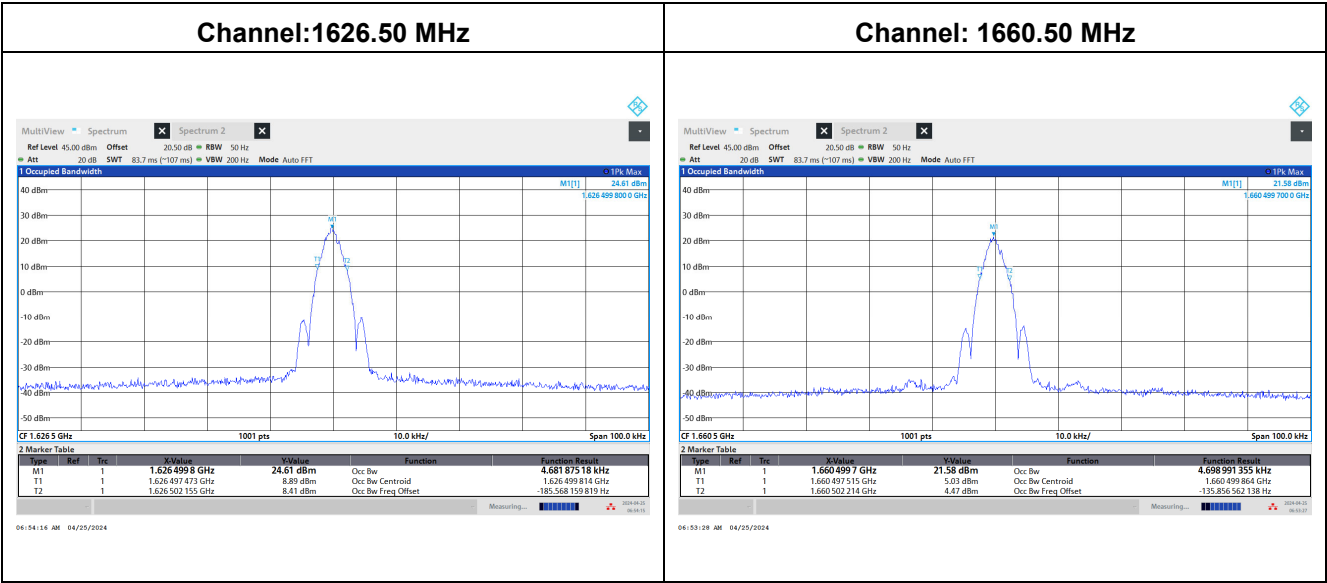
Note: The insertion loss (external attenuator / RF cable assembly) and bandwidth correction factor (1.25 dB, when RBW 3 kHz was used) were included in the spectrum analyzer as the Offset.

Total power



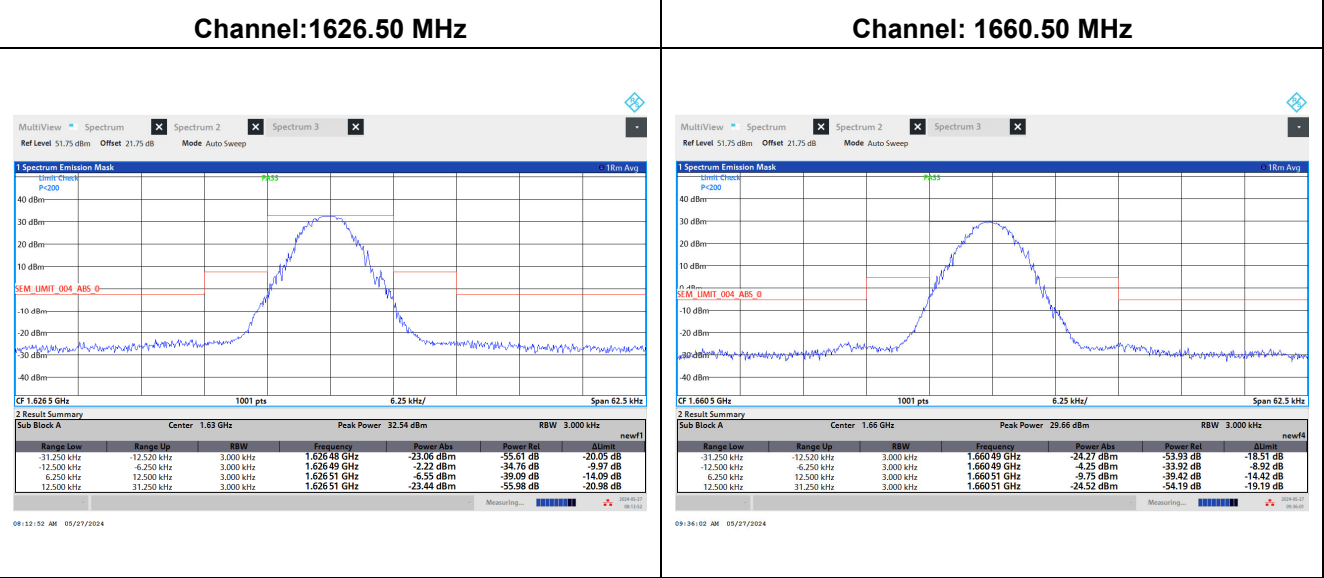
Appendix B. Test Result of Occupied Bandwidth

Channel (MHz)	Occuiped Bandwidth (kHz)
1626.50	4.681
1660.50	4.698



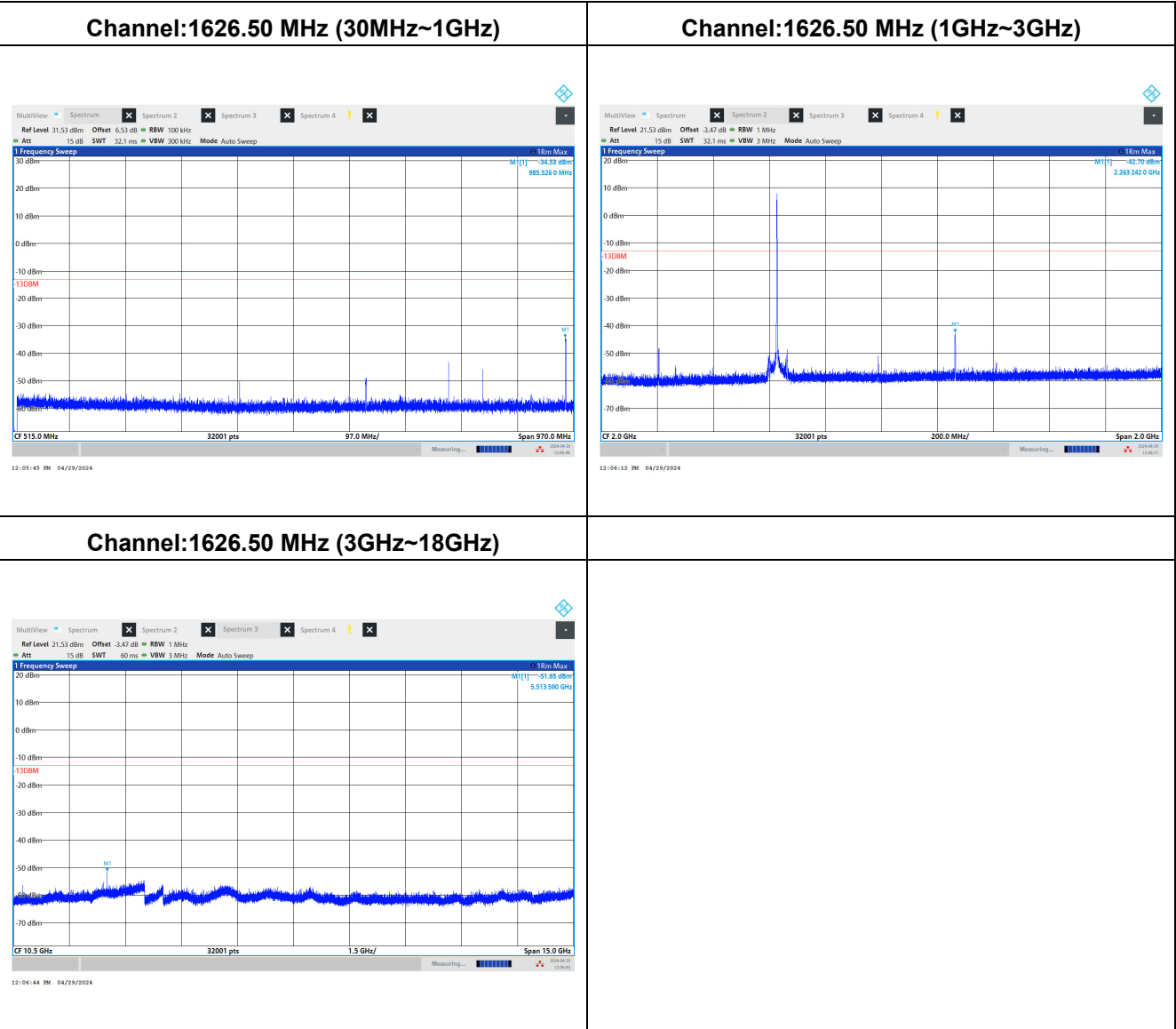
Appendix C. Test Result of Spurious Emissions at Antenna Terminals (Conducted emissions)

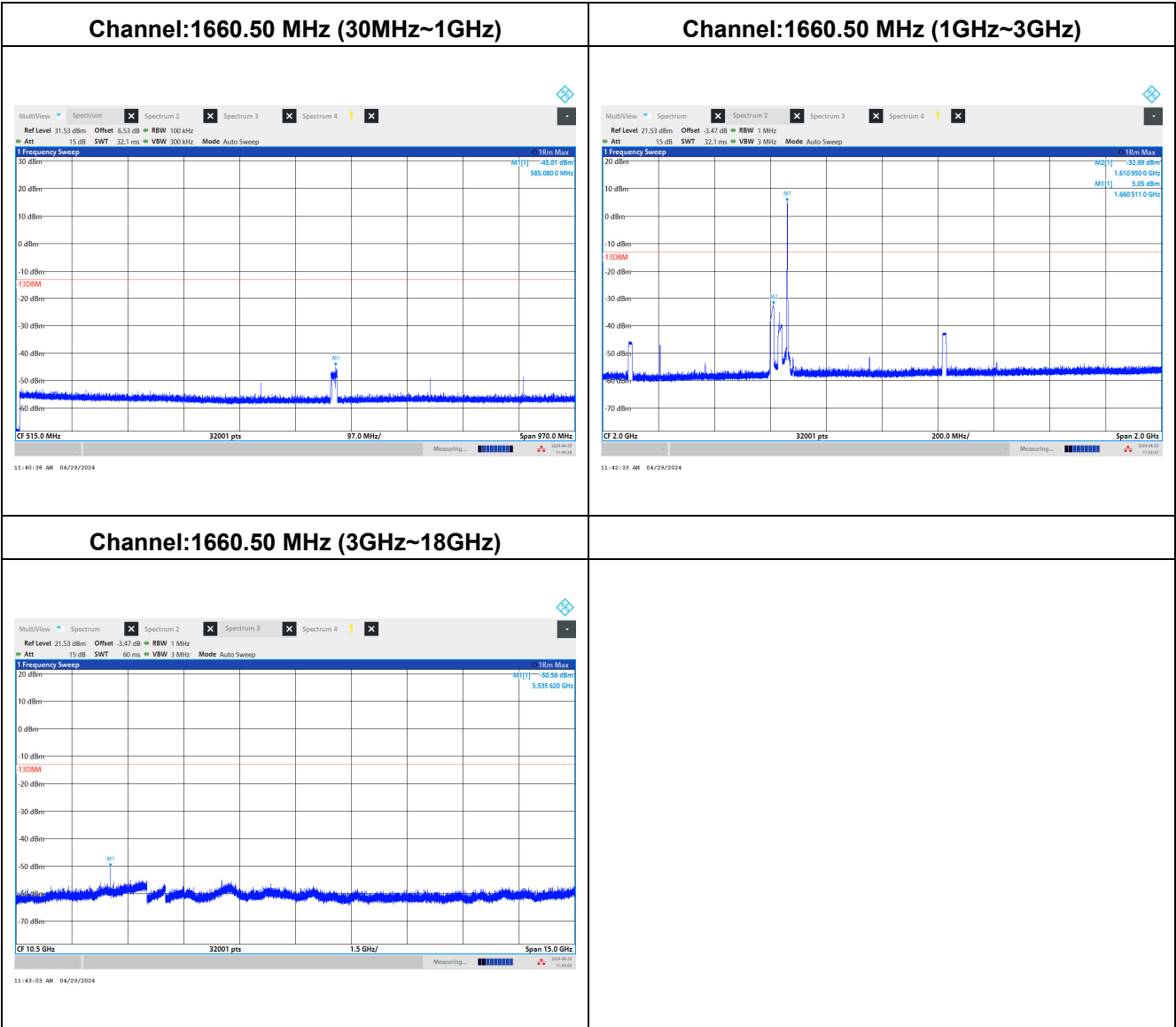
Within 250 percent of the authorized bandwidth (authorized bandwidth= 12.5kHz)



Note: The insertion loss (external attenuator / RF cable assembly) and bandwidth correction factor (1.25 dB, when RBW 3 kHz was used) were included in the spectrum analyzer as the Offset.

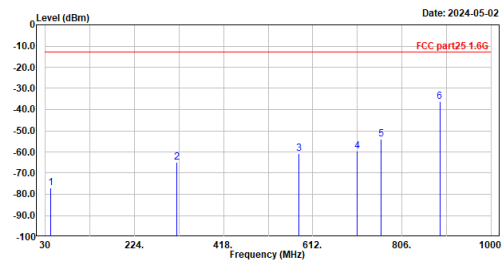
More than 250 percent of the authorized bandwidth (authorized bandwidth= 12.5kHz)





Appendix D. Test Result of Spurious Emission (radiated emission)

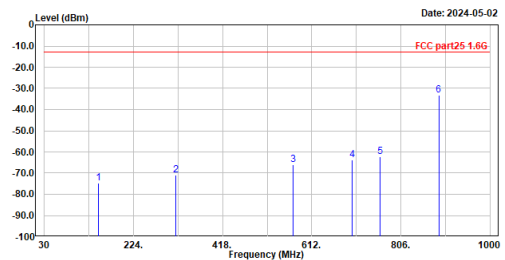
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX 1626.5MHz
Test by :Nova



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	41.761	-76.80	-13.00	-63.80	-66.94	-9.86	RMS
2	316.665	-64.91	-13.00	-51.91	-53.61	-11.30	RMS
3	582.536	-60.88	-13.00	-47.88	-54.61	-6.27	RMS
4	709.030	-59.64	-13.00	-46.64	-55.58	-4.06	RMS
5	760.834	-53.86	-13.00	-40.86	-50.57	-3.29	RMS
6	888.329	-36.14	-13.00	-23.14	-34.15	-1.99	RMS

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

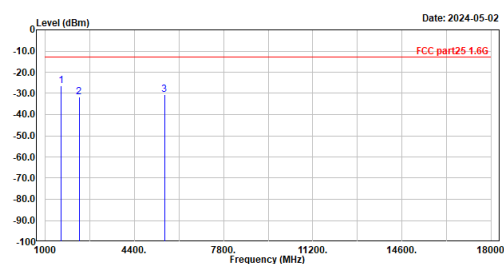
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX 1626.5MHz
Test by :Nova



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	148.492	-74.86	-13.00	-61.86	-63.83	-11.03	RMS
2	316.665	-70.97	-13.00	-57.97	-59.98	-10.99	RMS
3	572.109	-65.99	-13.00	-52.99	-60.30	-5.69	RMS
4	699.997	-63.74	-13.00	-50.74	-59.89	-3.85	RMS
5	760.834	-62.08	-13.00	-49.08	-58.80	-3.28	RMS
6	888.329	-33.32	-13.00	-20.32	-31.86	-1.46	RMS

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

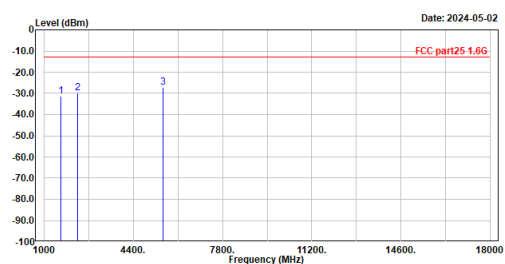
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX 1626.5MHz
Test by :Nova



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	1615.188	-26.42	-13.00	-13.42	-21.14	-5.28	RMS
2	2288.813	-31.72	-13.00	-18.72	-28.08	-3.64	RMS
3	5544.844	-30.66	-13.00	-17.66	-35.36	4.70	RMS

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

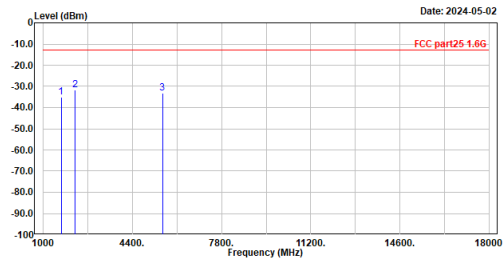
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX 1626.5MHz
Test by :Nova



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	1626.344	-31.20	-13.00	-18.20	-26.16	-5.04	RMS
2	2280.844	-29.64	-13.00	-16.64	-26.06	-3.58	RMS
3	5535.281	-27.18	-13.00	-14.18	-32.05	4.87	RMS

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

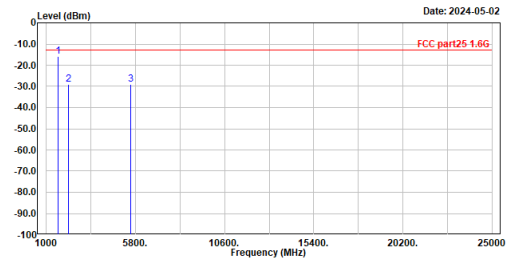
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_1660.5MHz
Test by :Nova



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	1680.000	-35.07	-13.00	-22.07	-29.97	-5.10	RMS
2	2214.969	-31.56	-13.00	-18.56	-27.77	-3.79	RMS
3	5545.375	-33.06	-13.00	-20.06	-37.76	4.70	RMS

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_1660.5MHz
Test by :Nova



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	1631.125	-15.96	-13.00	-2.96	-10.93	-5.03	Average
2	2287.000	-28.89	-13.00	-15.89	-25.12	-3.77	Average
3	5528.375	-29.21	-13.00	-16.21	-34.06	4.85	Average

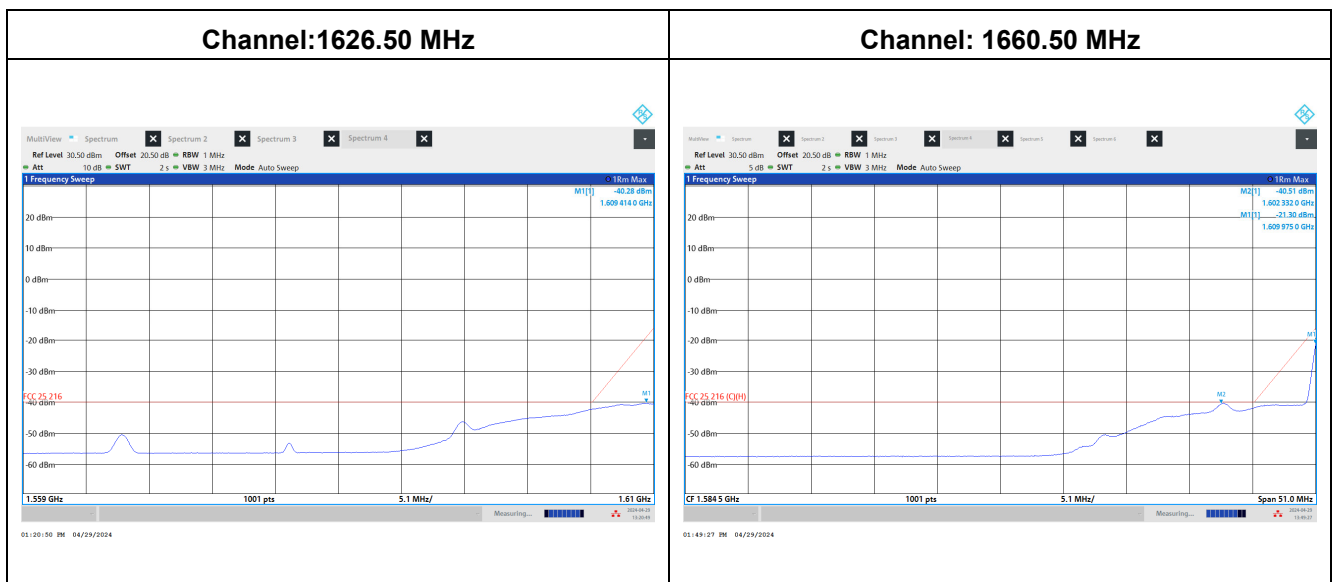
Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Appendix E. Test Result of Limits on emissions from mobile earth stations for protection of aeronautical radio navigation satellite service / Carrier-off state emissions (conducted emissions)

Conducted emissions from 1605 MHz to 1610 MHz

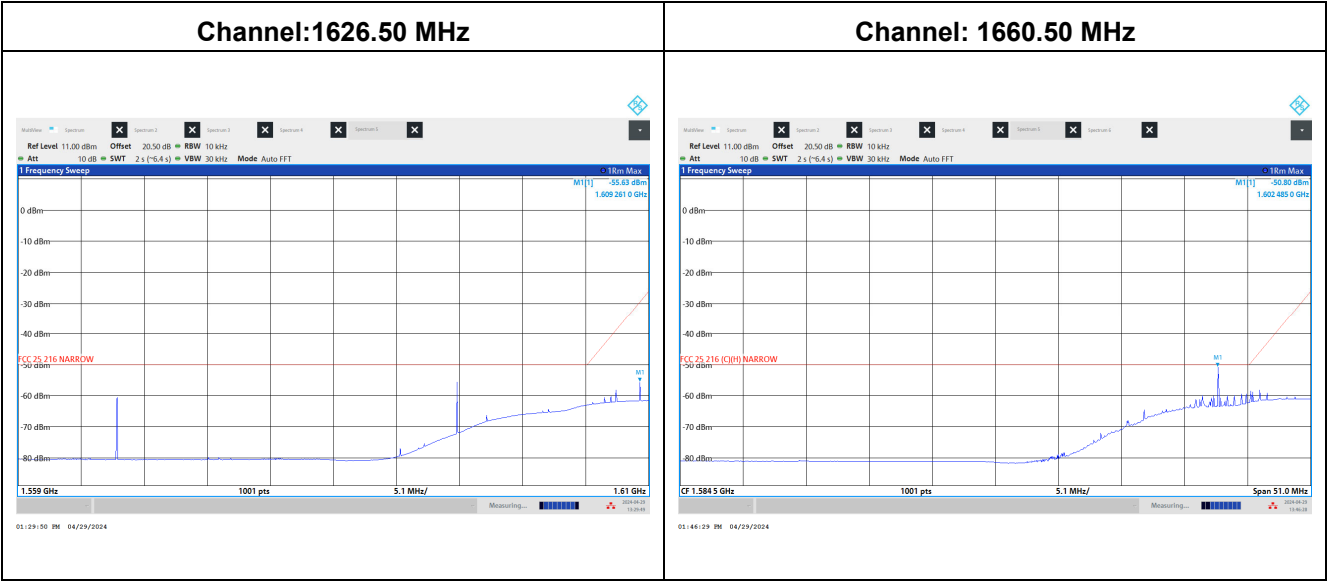
Emission limits (PSD in 1MHz)

Test Channel (MHz)	Measurement Frequency (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)
1626.50	1609.414	-40.28	-21.47	-18.81
1660.50	1602.332	-40.51	-0.51	-40.00
	1609.975	-21.30	-5.18	-16.12



Emission limits (PSD in 100 kHz)

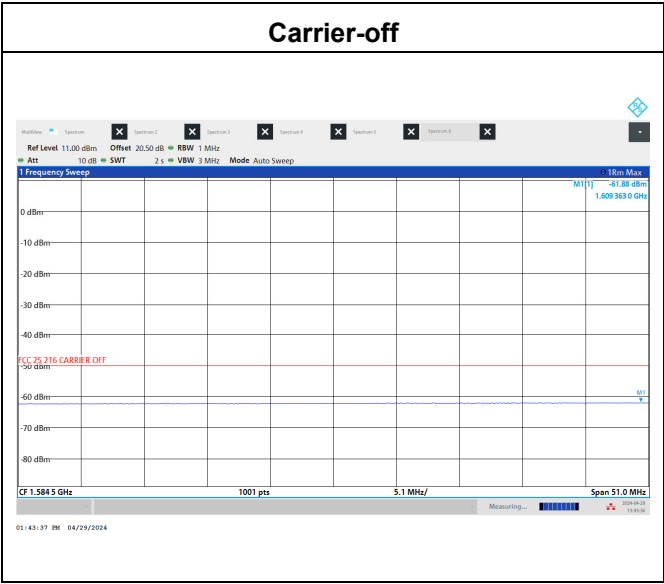
Test Channel (MHz)	Measurement Frequency (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)
1626.50	1609.261	-55.63	-36.08	-19.55
1660.50	1602.485	-50.80	-0.80	-50.00



Conducted emissions from 1559 MHz to 1610 MHz (carrier-off state emissions)

Emission limits (carrier-off)

State	Measurement Frequency (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)
Carrier-off	1609.363	-61.88	-11.88	-50



Appendix F. Test Result of Frequency Stability

Temperature Variations

Temperature (°C)	Voltage (V)	Observe Time	Declared Frequency (MHz)	Read Frequency (MHz)	Tolerance (%)	Limit (%)
50	7.2	start	1626.5	1626.49942	0.00004	0.001
		2mins	1626.5	1626.49957	0.00003	
		5mins	1626.5	1626.49957	0.00003	
		10mins	1626.5	1626.49957	0.00003	
40	7.2	start	1626.5	1626.49949	0.00003	0.001
		2mins	1626.5	1626.49949	0.00003	
		5mins	1626.5	1626.49957	0.00003	
		10mins	1626.5	1626.49957	0.00003	
30	7.2	start	1626.5	1626.49949	0.00003	0.001
		2mins	1626.5	1626.49971	0.00002	
		5mins	1626.5	1626.49978	0.00001	
		10mins	1626.5	1626.49957	0.00003	
10	7.2	start	1626.5	1626.49942	0.00004	0.001
		2mins	1626.5	1626.49957	0.00003	
		5mins	1626.5	1626.49964	0.00002	
		10mins	1626.5	1626.49964	0.00002	
0	7.2	start	1626.5	1626.49957	0.00003	0.001
		2mins	1626.5	1626.49964	0.00002	
		5mins	1626.5	1626.49957	0.00003	
		10mins	1626.5	1626.49971	0.00002	
-10	7.2	start	1626.5	1626.49964	0.00002	0.001
		2mins	1626.5	1626.49964	0.00002	
		5mins	1626.5	1626.49964	0.00002	
		10mins	1626.5	1626.49964	0.00002	
-20	7.2	start	1626.5	1626.49971	0.00002	0.001
		2mins	1626.5	1626.49971	0.00002	
		5mins	1626.5	1626.49971	0.00002	
		10mins	1626.5	1626.49964	0.00002	

Temperature (°C)	Voltage (V)	Observe Time	Declared Frequency (MHz)	Read Frequency (MHz)	Tolerance (%)	Limit (%)
20	7.2	start	1626.5	1626.50000	0.00000	0.001
		2mins	1626.5	1626.49949	0.00003	
		5mins	1626.5	1626.49957	0.00003	
		10mins	1626.5	1626.49964	0.00002	
20	8.28	start	1626.5	1626.50000	0.00000	0.001
		2mins	1626.5	1626.49949	0.00003	
		5mins	1626.5	1626.49957	0.00003	
		10mins	1626.5	1626.49957	0.00003	
20	6.12	start	1626.5	1626.50000	0.00000	0.001
		2mins	1626.5	1626.49949	0.00003	
		5mins	1626.5	1626.49957	0.00003	
		10mins	1626.5	1626.49965	0.00002	