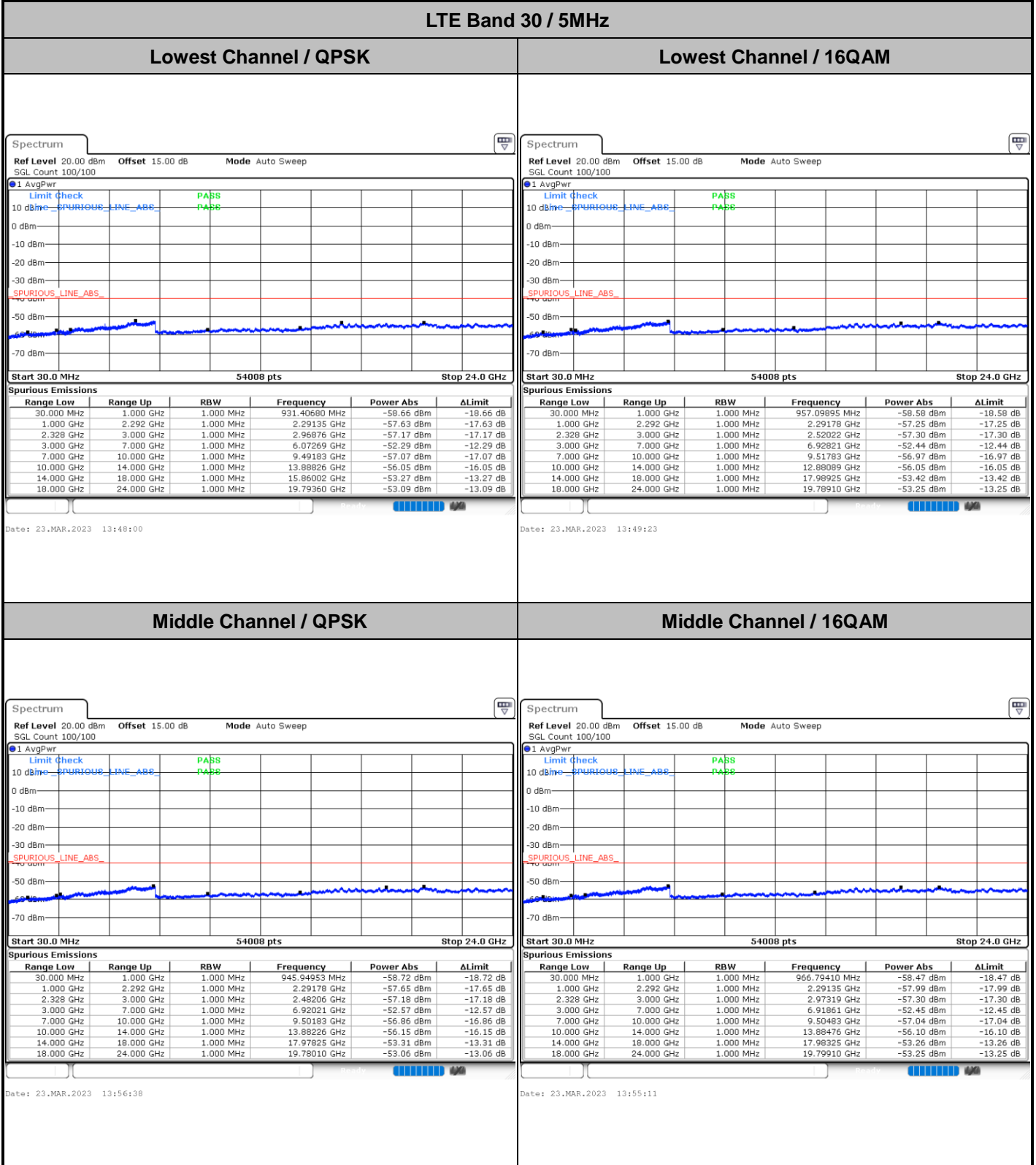




Conducted Spurious Emission

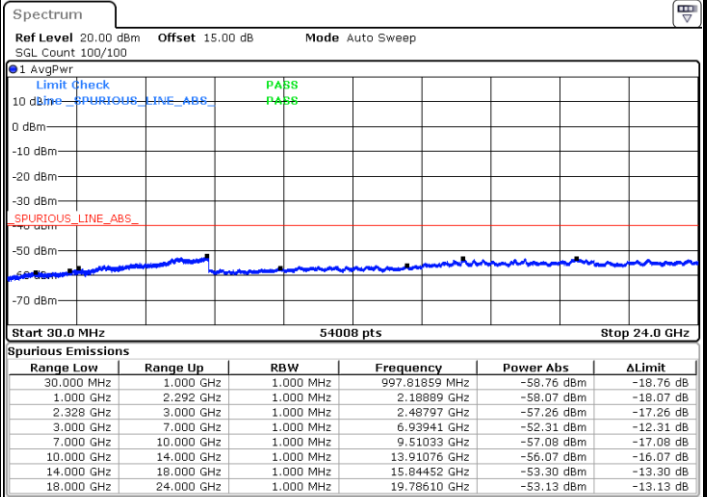
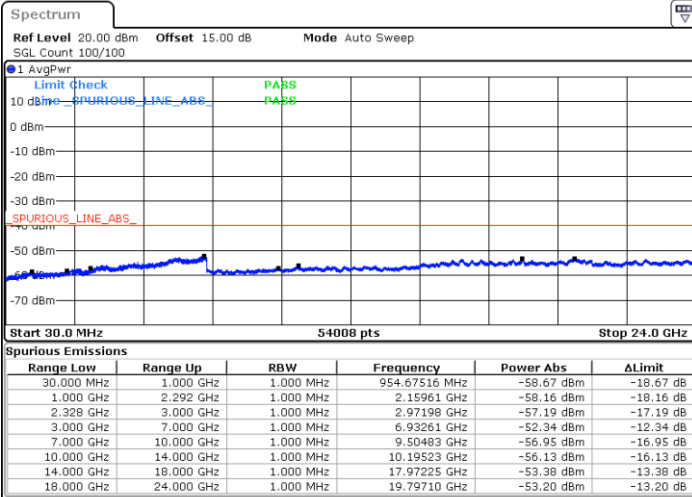




LTE Band 30 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



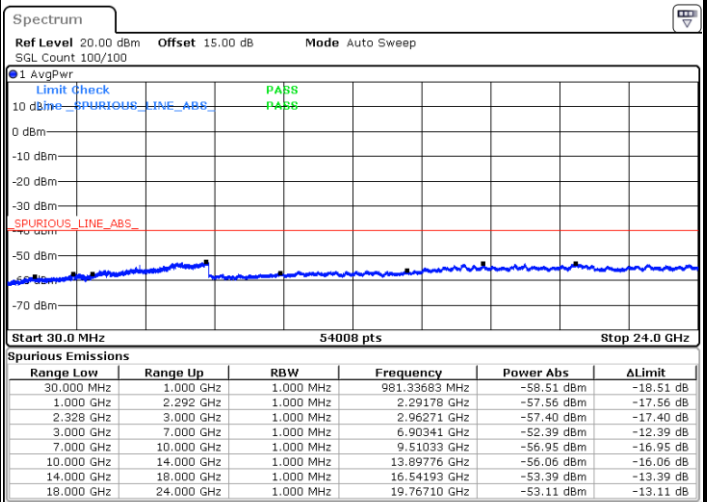
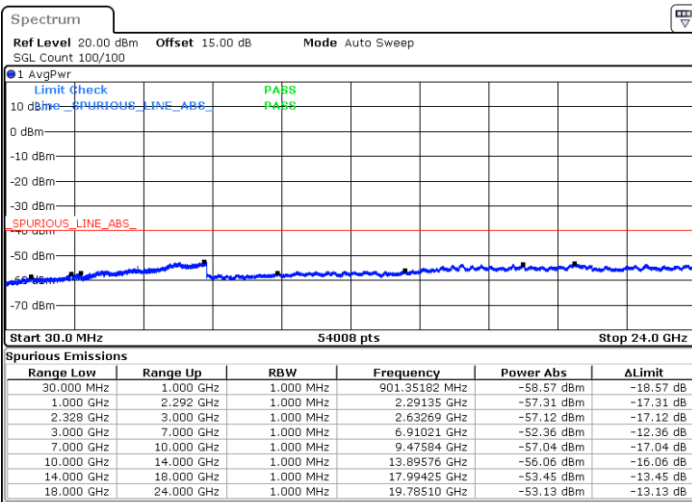
Date: 23.MAR.2023 13:58:02

Date: 23.MAR.2023 14:01:10

LTE Band 30 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



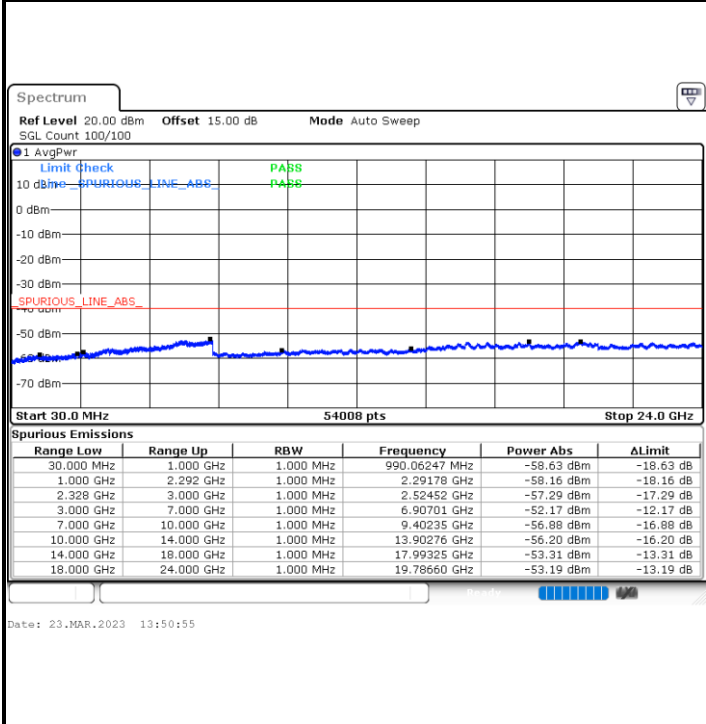
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Date: 23.MAR.2023 15:04:14

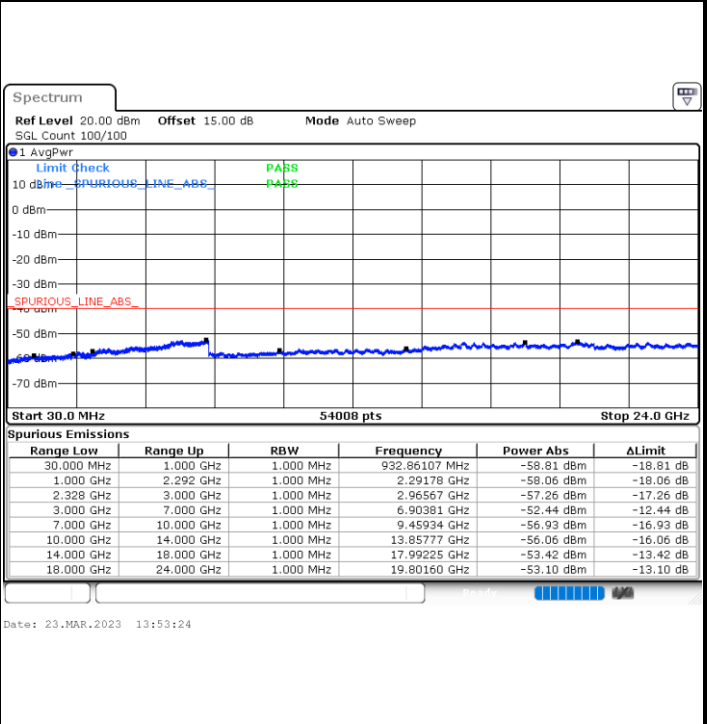


LTE Band 30 / 5MHz

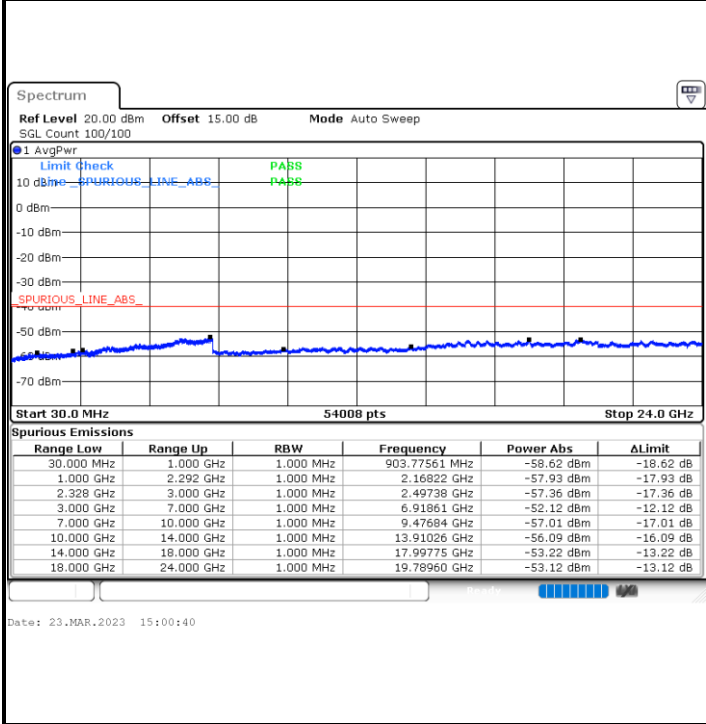
Lowest Channel / 64QAM

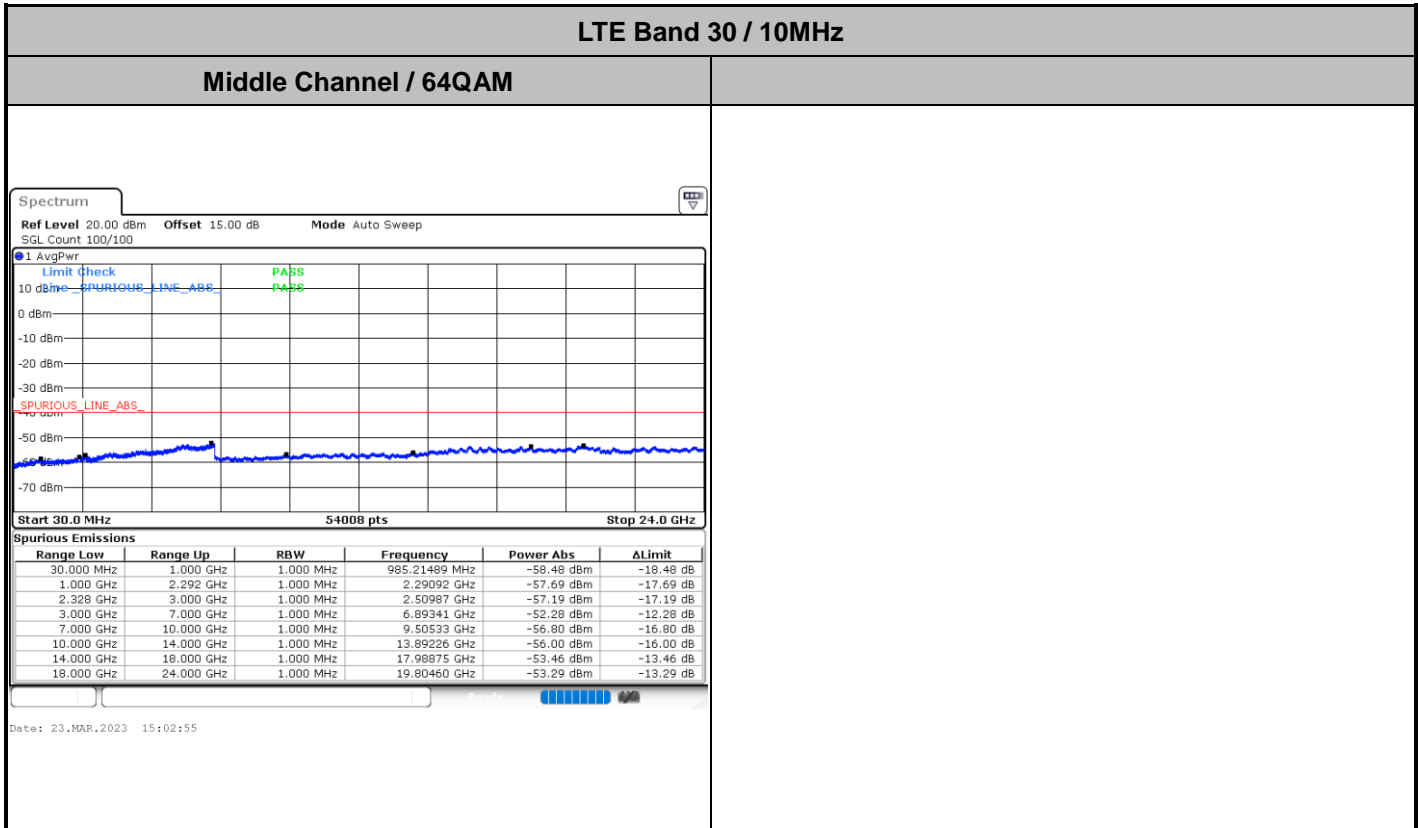


Middle Channel / 64QAM



Highest Channel / 64QAM





Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0008	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Kuang Jia	Temperature :	22~25°C
		Relative Humidity :	48~52%

LTE Band 30 / 5MHz / QPSK / RB Size 1 Offset 0 ANT2									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4610.50	-62.31	-40	-22.31	-56.89	-68.56	6.30	12.55	H
	6915.75	-55.51	-40	-15.51	-54.07	-58.91	8.25	11.65	H
	9221.00	-53.06	-40	-13.06	-57.75	-55.41	9.50	11.85	H
	11526.25	-51.43	-40	-11.43	-59.20	-52.51	10.97	12.05	H
	4610.50	-60.34	-40	-20.34	-55.3	-66.59	6.30	12.55	V
	6915.75	-55.79	-40	-15.79	-54.83	-59.19	8.25	11.65	V
	9221.00	-53.87	-40	-13.87	-57.74	-56.22	9.50	11.85	V
	11526.25	-51.76	-40	-11.76	-59.26	-52.84	10.97	12.05	V
Middle	4615.50	-61.76	-40	-21.76	-56.35	-68.01	6.45	12.70	H
	6923.25	-54.53	-40	-14.53	-53.09	-57.93	8.40	11.80	H
	9231.00	-52.92	-40	-12.92	-57.61	-55.27	9.65	12.00	H
	11538.75	-51.56	-40	-11.56	-59.27	-52.64	11.12	12.20	H
	4615.50	-59.23	-40	-19.23	-54.2	-65.48	6.45	12.70	V
	6923.25	-55.14	-40	-15.14	-54.18	-58.54	8.40	11.80	V
	9231.00	-53.45	-40	-13.45	-57.32	-55.80	9.65	12.00	V
	11538.75	-51.68	-40	-11.68	-59.1	-52.76	11.12	12.20	V
ighest	4620.50	-59.84	-40	-19.84	-54.43	-66.09	6.61	12.86	H
	6930.75	-55.55	-40	-15.55	-54.24	-58.93	8.56	11.94	H
	9241.00	-53.41	-40	-13.41	-58.12	-55.76	9.81	12.16	H
	11551.25	-51.68	-40	-11.68	-59.34	-52.73	11.28	12.33	H
	4620.50	-56.55	-40	-16.55	-51.52	-62.80	6.61	12.86	V
	6930.75	-55.60	-40	-15.60	-54.76	-58.98	8.56	11.94	V
	9241.00	-53.91	-40	-13.91	-57.78	-56.26	9.81	12.16	V
	11551.25	-51.76	-40	-11.76	-59.12	-52.81	11.28	12.33	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0 ANT2									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4611.00	-62.55	-40	-22.55	-57.13	-68.80	6.45	12.70	H
	6916.50	-54.68	-40	-14.68	-53.24	-58.08	8.40	11.80	H
	9222.00	-53.29	-40	-13.29	-57.98	-55.64	9.65	12.00	H
	4611.00	-61.36	-40	-21.36	-56.32	-67.61	6.45	12.70	V
	6916.50	-55.27	-40	-15.27	-54.31	-58.67	8.40	11.80	V
	9222.00	-53.95	-40	-13.95	-57.82	-56.30	9.65	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.