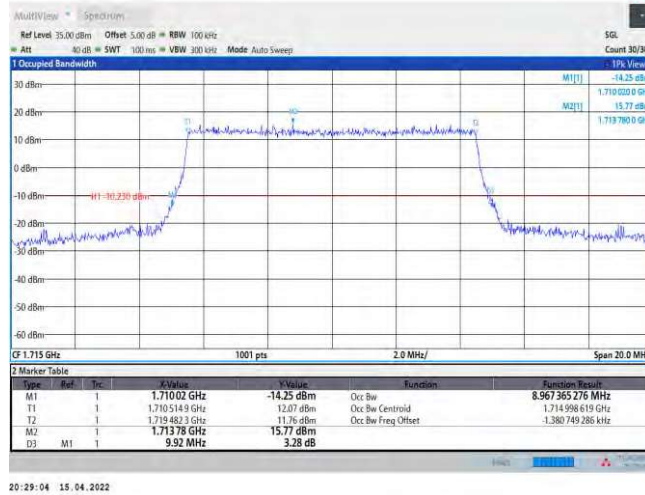
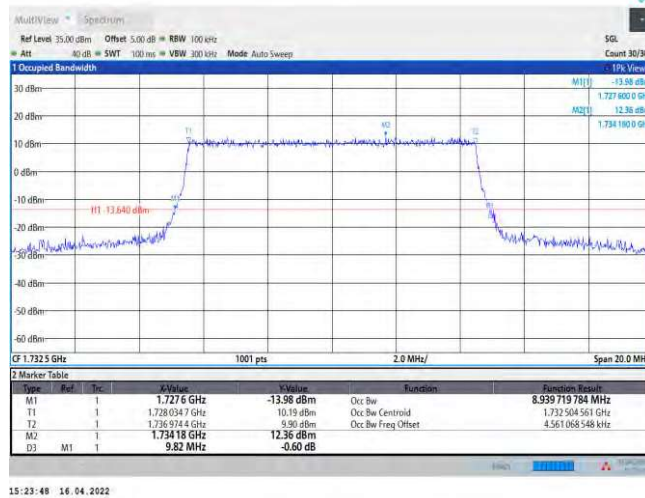


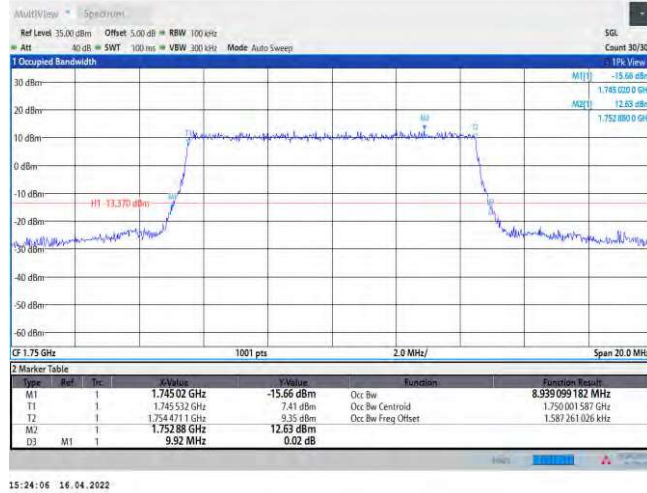
Band4-10MHz-QPSK-20000-50RB#0



Band4-10MHz-QPSK-20175-50RB#0

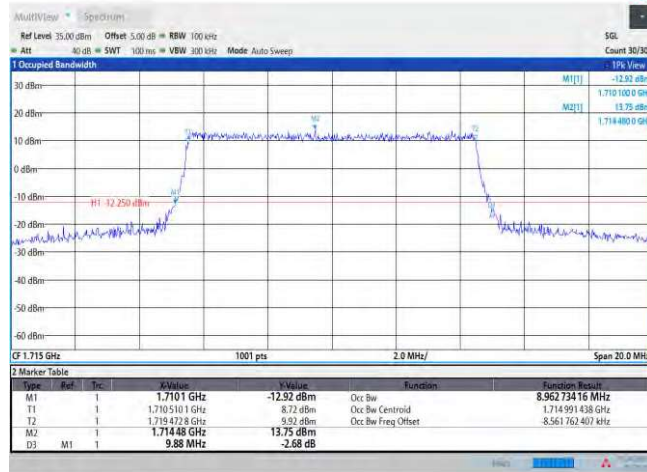


Band4-10MHz-QPSK-20350-50RB#0



15:24:06 16.04.2022

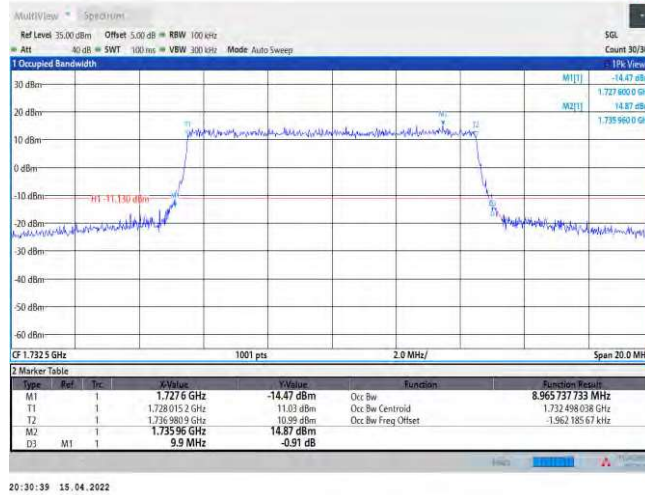
Band4-10MHz-16QAM-20000-50RB#0



20:29:22 16.04.2022

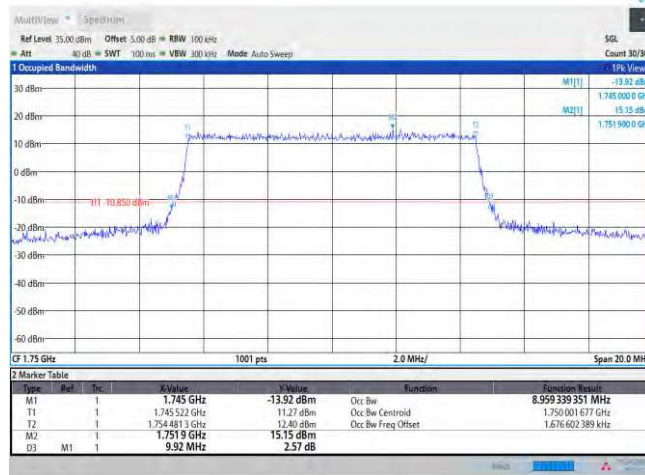


Band4-10MHz-16QAM-20175-50RB#0



20:30:39 15.04.2022

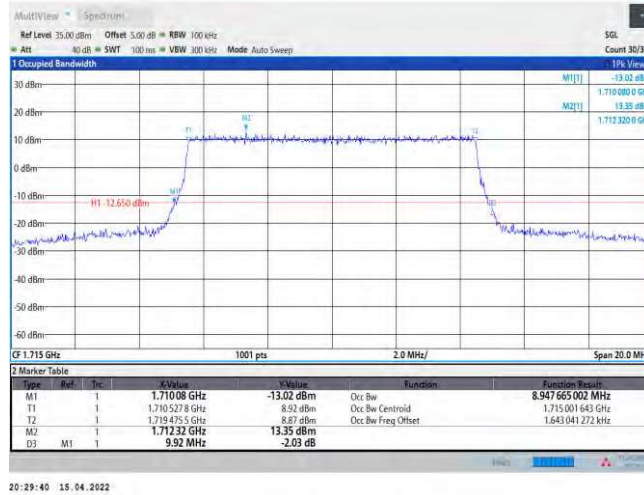
Band4-10MHz-16QAM-20350-50RB#0



20:31:54 15.04.2022

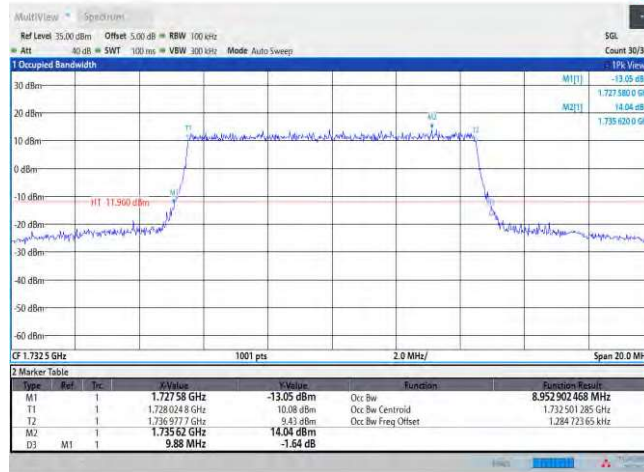


Band4-10MHz-64QAM-20000-50RB#0



20:29:40 15. 04. 2022

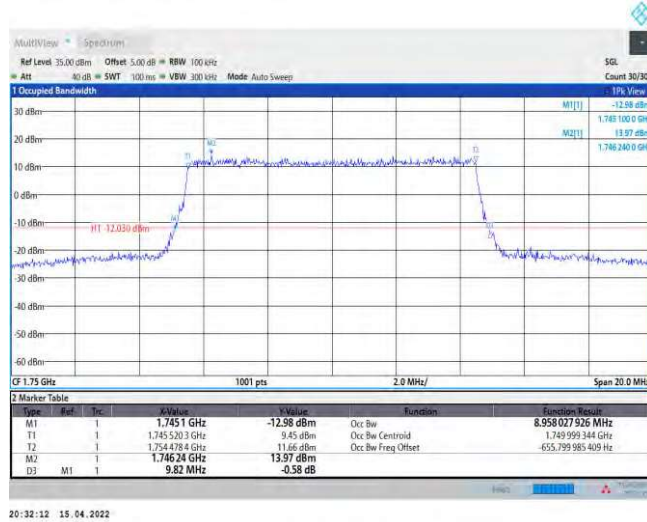
Band4-10MHz-64QAM-20175-50RB#0



20:30:57 15. 04. 2022

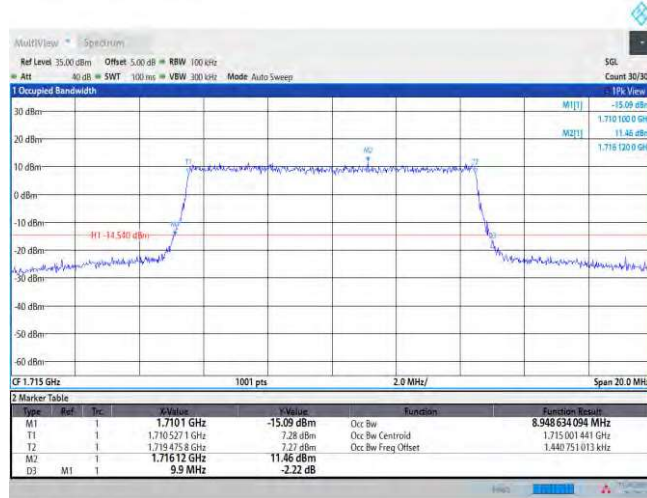


Band4-10MHz-64QAM-20350-50RB#0



20:32:12 15. 04. 2022

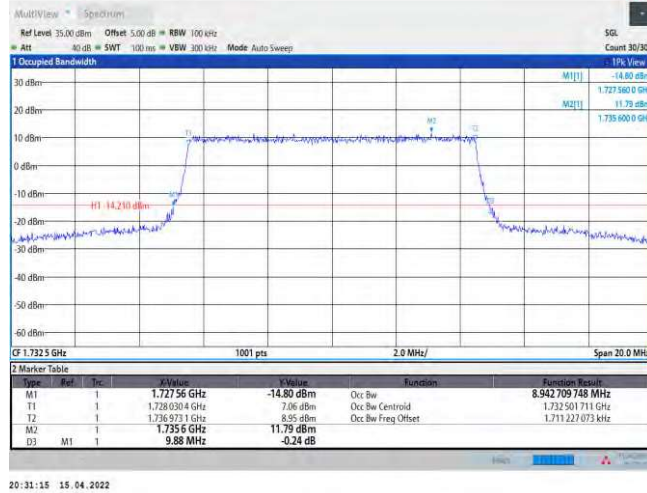
Band4-10MHz-256QAM-20000-50RB#0



20:29:58 15. 04. 2022

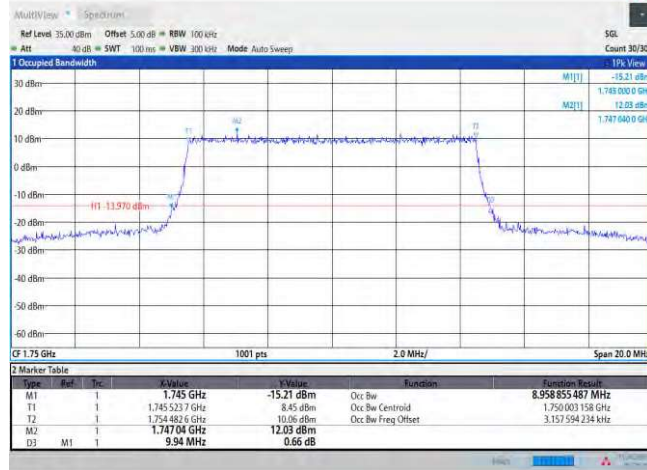


Band4-10MHz-256QAM-20175-50RB#0



20:31:15 15. 04. 2022

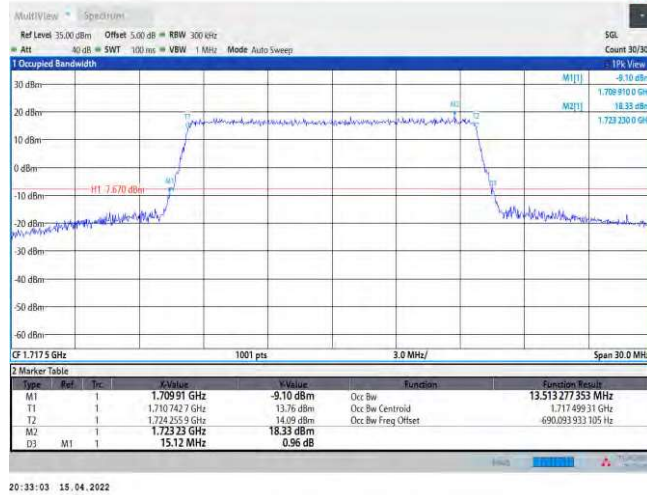
Band4-10MHz-256QAM-20350-50RB#0



20:32:30 15. 04. 2022

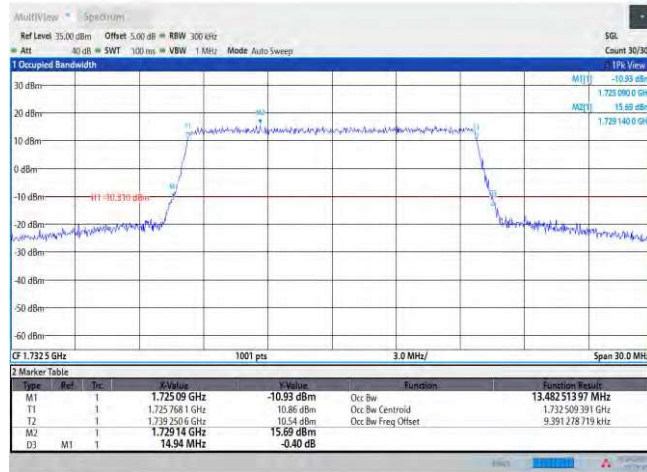


Band4-15MHz-QPSK-20025-75RB#0



20:33:03 15.04.2022

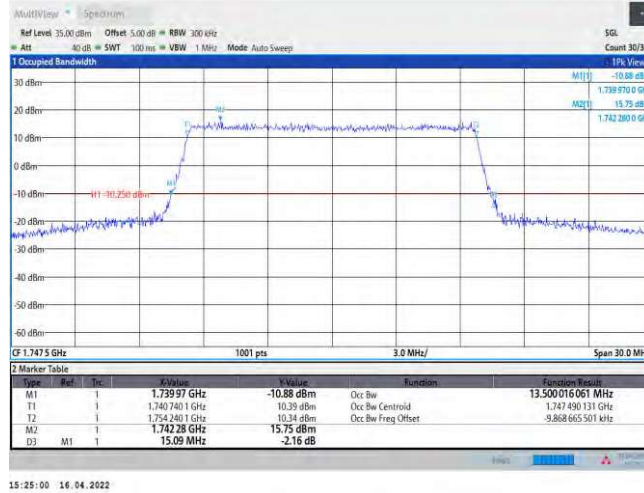
Band4-15MHz-QPSK-20175-75RB#0



15:24:42 16.04.2022

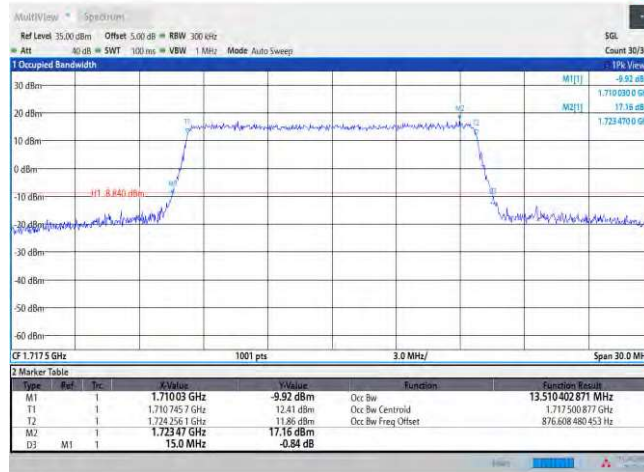


Band4-15MHz-QPSK-20325-75RB#0



15:25:00 16. 04. 2022

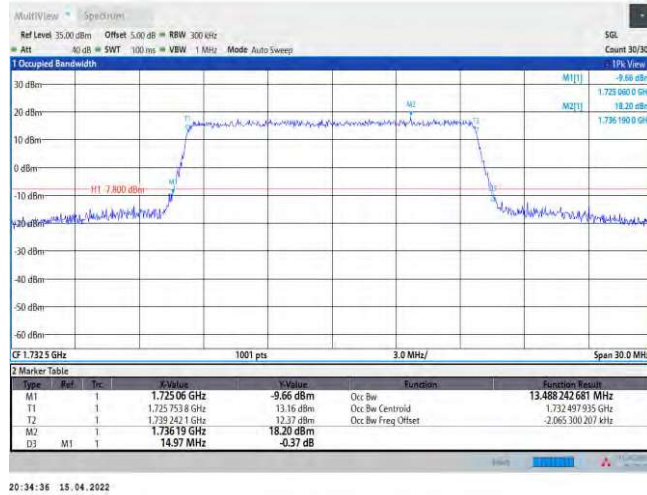
Band4-15MHz-16QAM-20025-75RB#0



20:33:21 16. 04. 2022

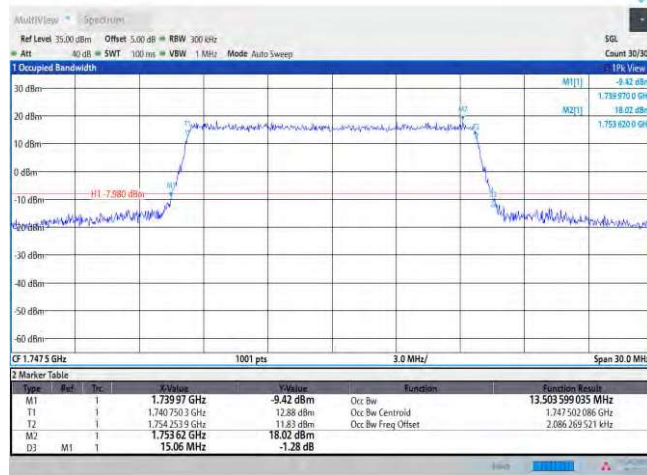


Band4-15MHz-16QAM-20175-75RB#0



20:34:36 15. 04. 2022

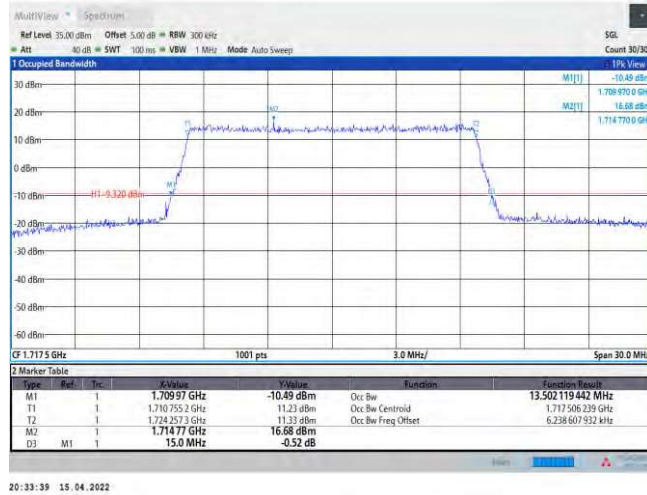
Band4-15MHz-16QAM-20325-75RB#0



20:35:53 15. 04. 2022

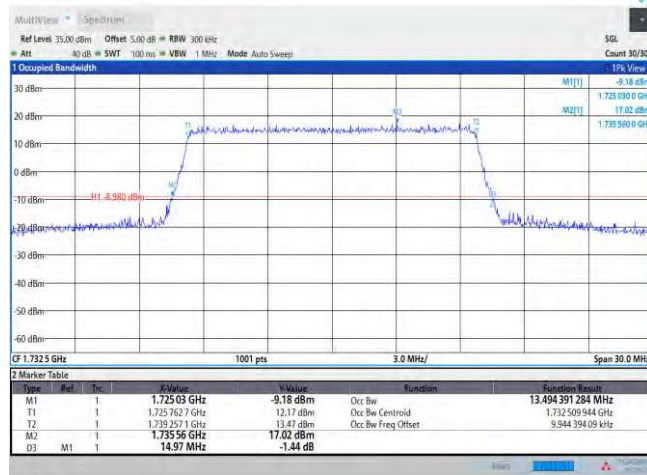


Band4-15MHz-64QAM-20025-75RB#0



20:33:39 15.04.2022

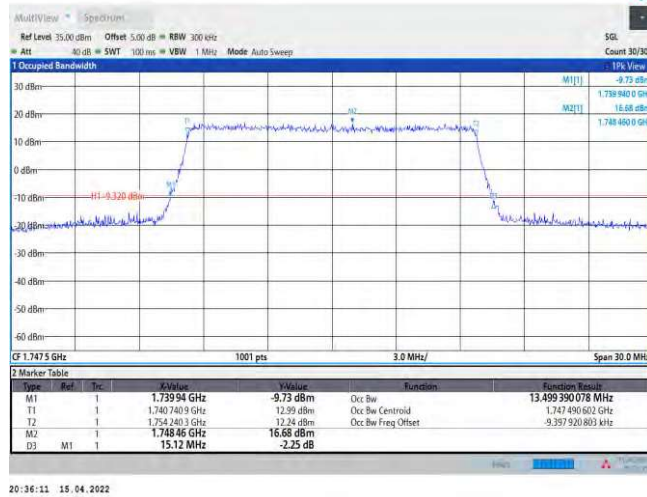
Band4-15MHz-64QAM-20175-75RB#0



20:34:54 15.04.2022

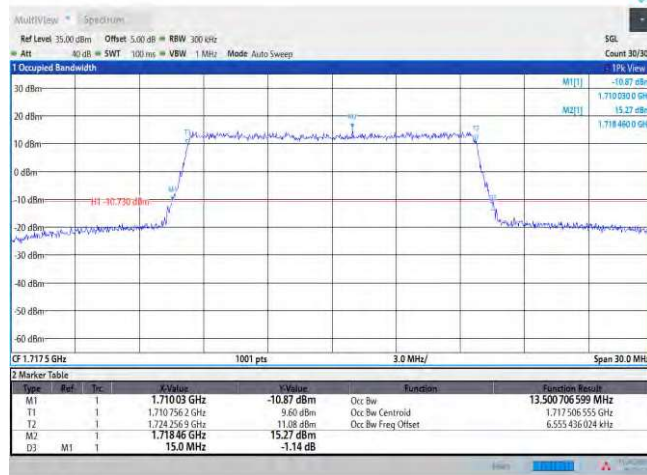


Band4-15MHz-64QAM-20325-75RB#0



20:36:11 15.04.2022

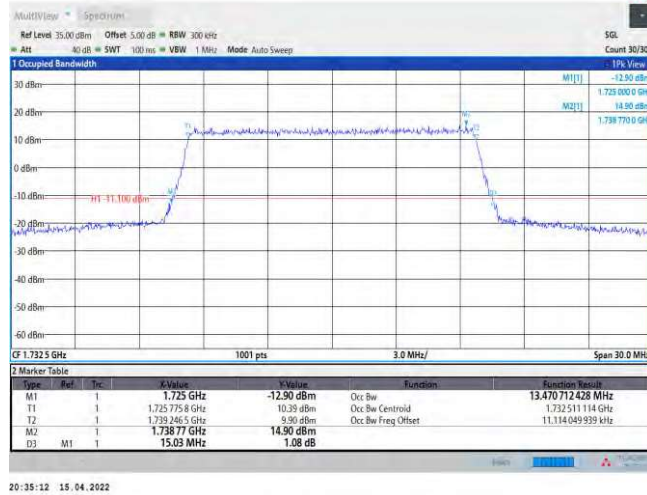
Band4-15MHz-256QAM-20025-75RB#0



20:33:58 15.04.2022

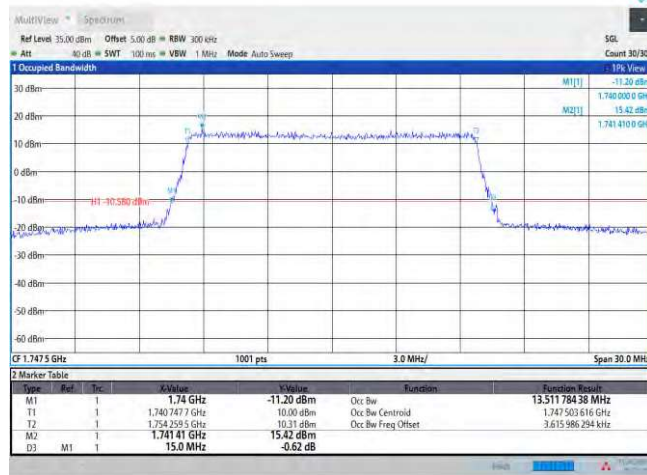


Band4-15MHz-256QAM-20175-75RB#0



20:35:12 15. 04. 2022

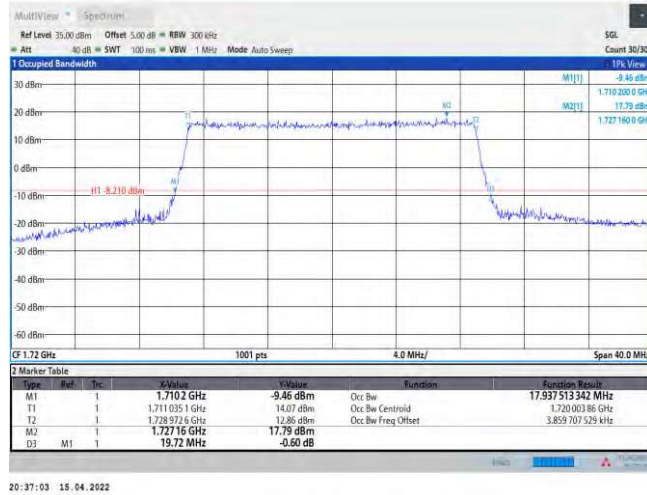
Band4-15MHz-256QAM-20325-75RB#0



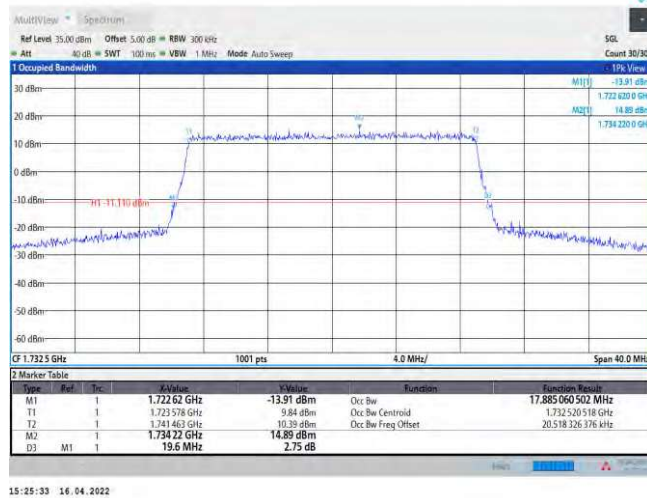
20:36:29 15. 04. 2022



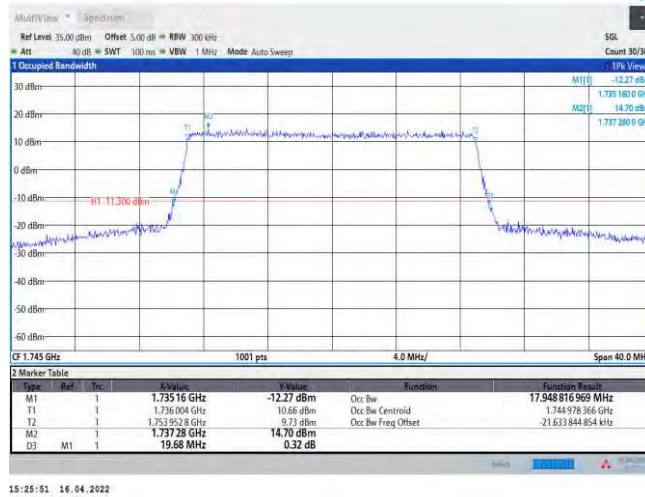
Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20175-100RB#0

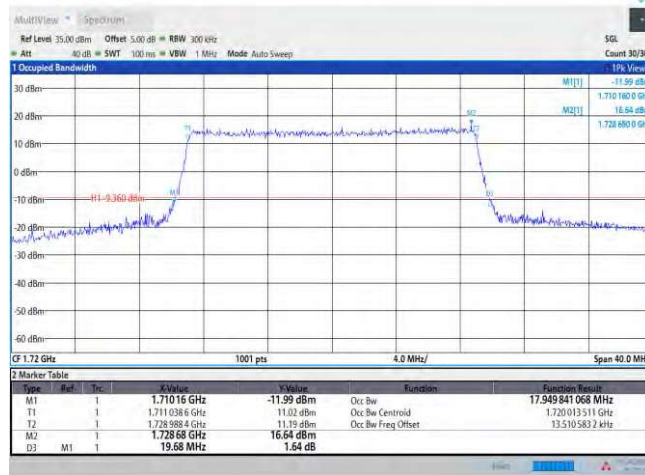


Band4-20MHz-QPSK-20300-100RB#0



15:25:51 16.04.2022

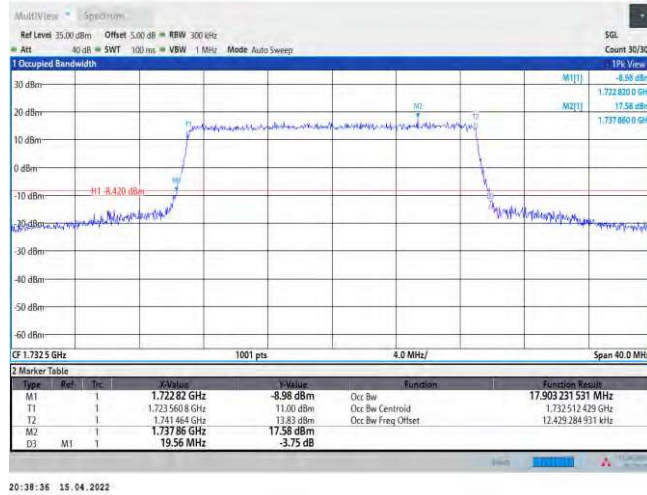
Band4-20MHz-16QAM-20050-100RB#0



20:37:21 16.04.2022

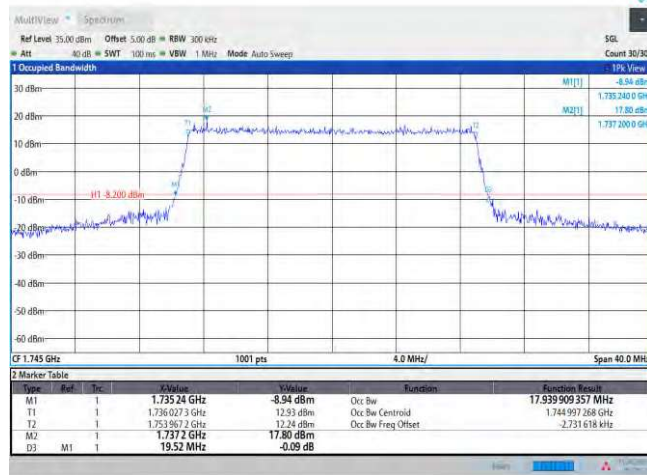


Band4-20MHz-16QAM-20175-100RB#0



20:38:36 15.04.2022

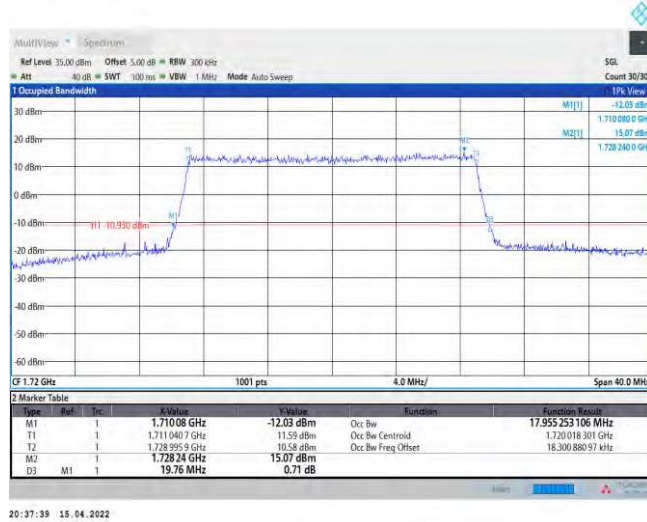
Band4-20MHz-16QAM-20300-100RB#0



20:39:53 15.04.2022

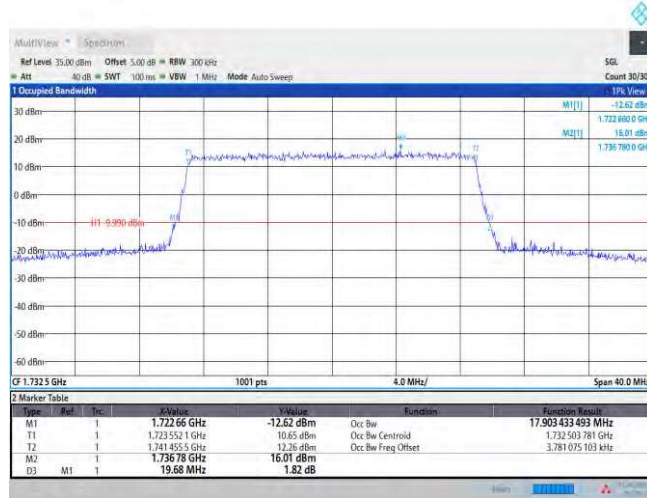


Band4-20MHz-64QAM-20050-100RB#0



20:37:39 15. 04. 2022

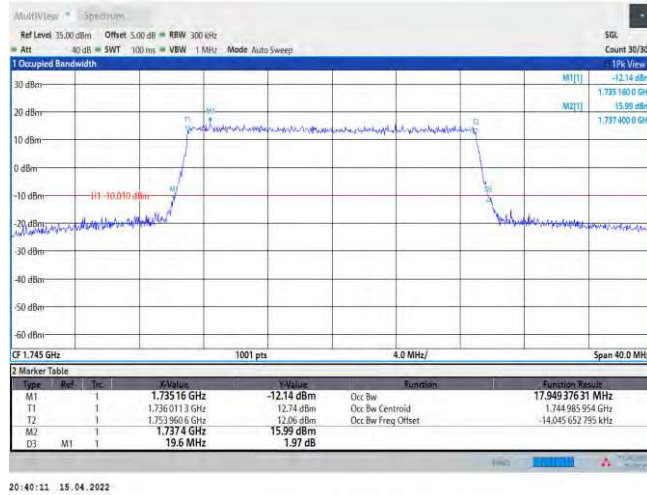
Band4-20MHz-64QAM-20175-100RB#0



20:38:54 15. 04. 2022

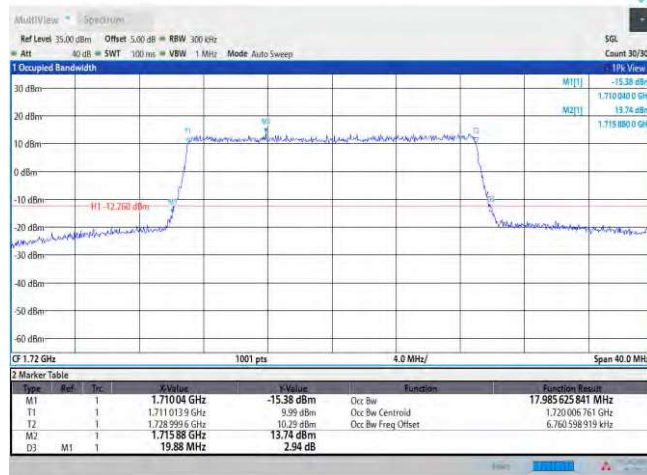


Band4-20MHz-64QAM-20300-100RB#0



20:40:11 15.04.2022

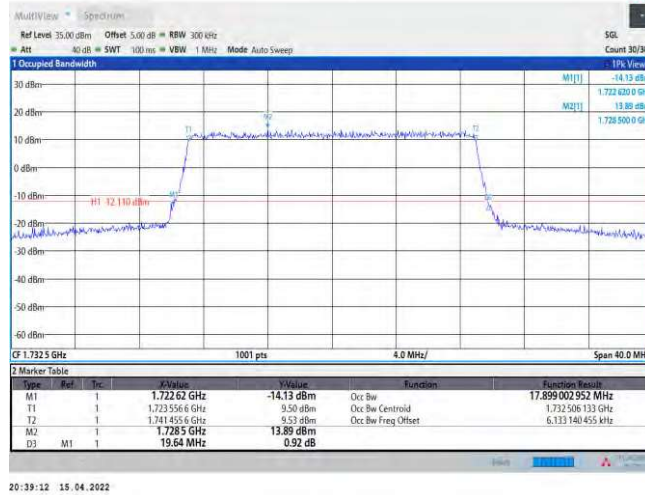
Band4-20MHz-256QAM-20050-100RB#0



20:37:57 15.04.2022

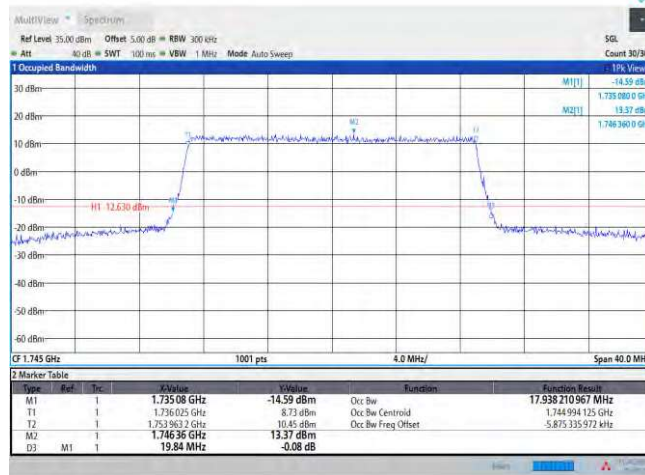


Band4-20MHz-256QAM-20175-100RB#0



20:39:12 15.04.2022

Band4-20MHz-256QAM-20300-100RB#0



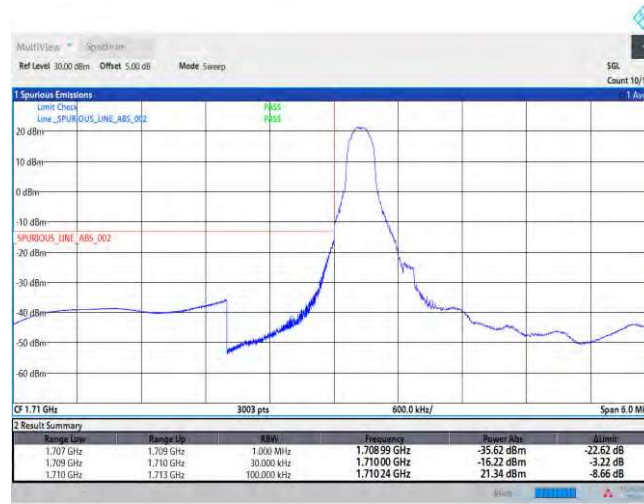
20:40:29 15.04.2022



Band Edge

Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



20:41:23 15.04.2022

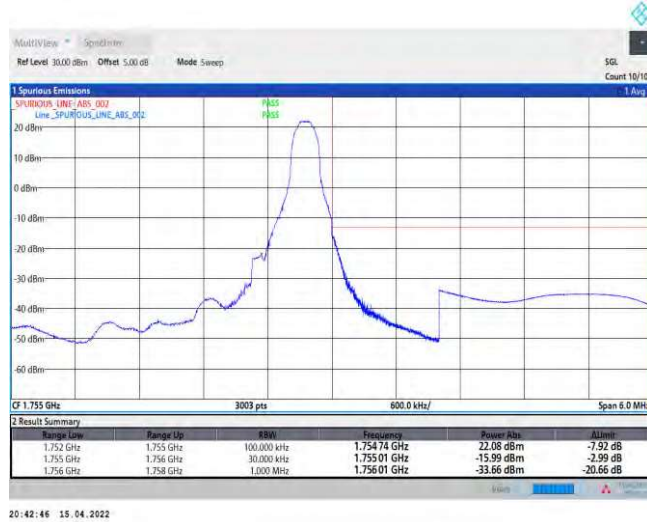
Band4-1.4MHz-QPSK-19957-6RB#0



20:41:52 15.04.2022



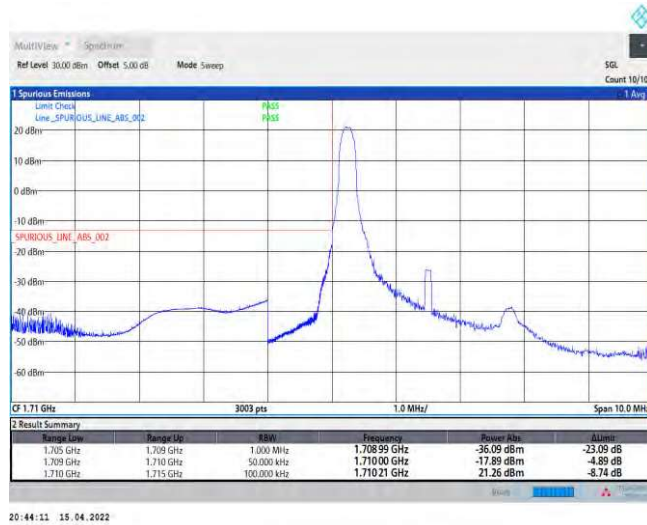
Band4-1.4MHz-QPSK-20393-1RB#5



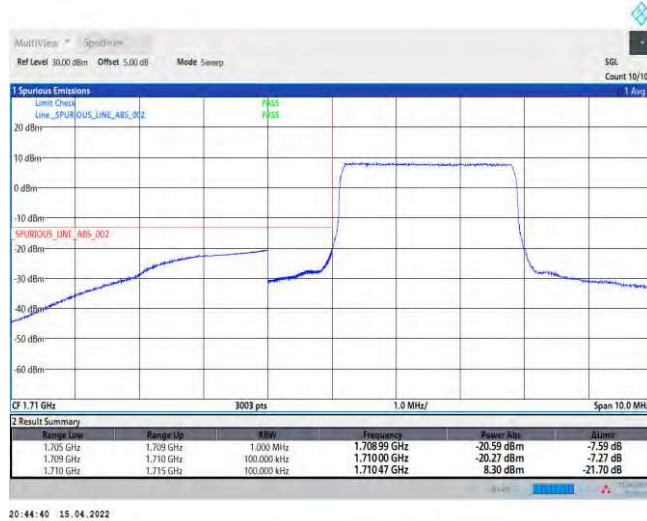
Band4-1.4MHz-QPSK-20393-6RB#0



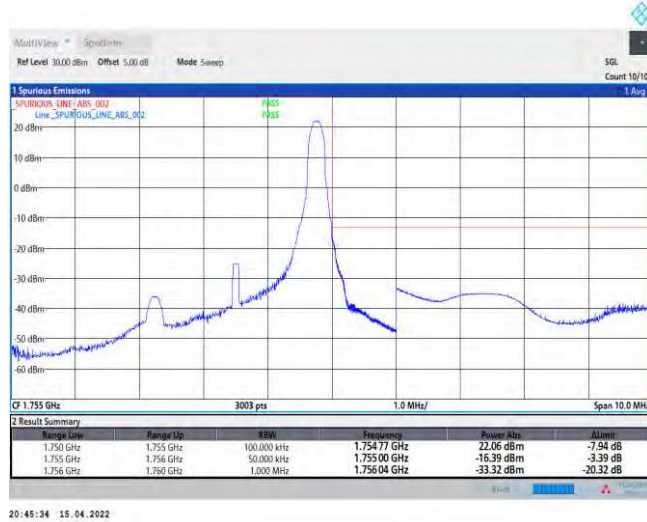
Band4-3MHz-QPSK-19965-1RB#0



Band4-3MHz-QPSK-19965-15RB#0



Band4-3MHz-QPSK-20385-1RB#14



20:45:34 15. 04. 2022

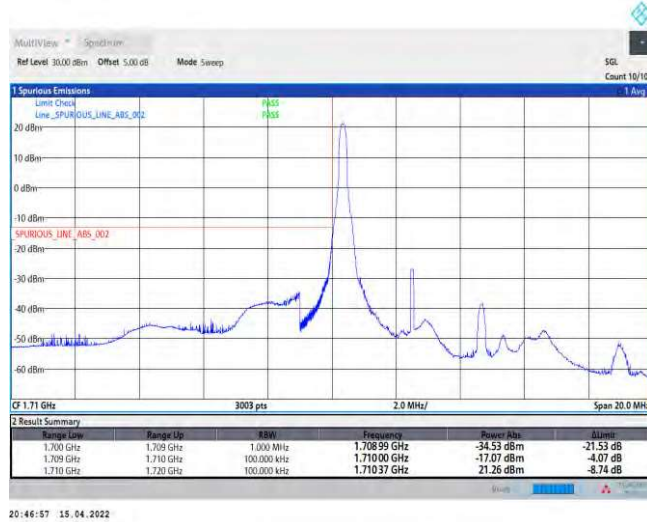
Band4-3MHz-QPSK-20385-15RB#0



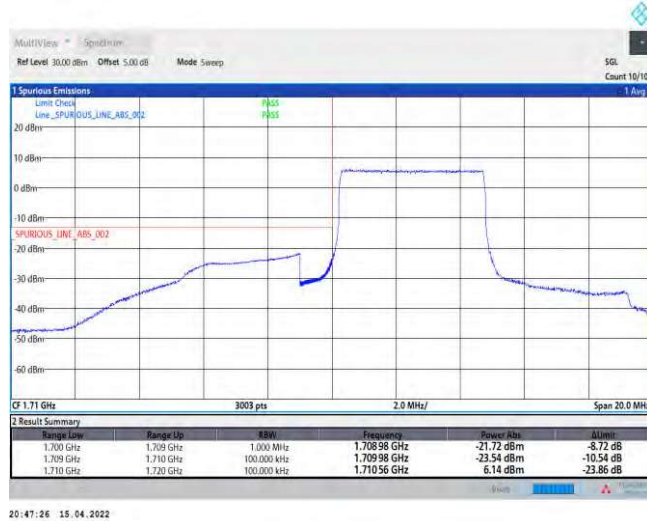
20:46:03 15. 04. 2022



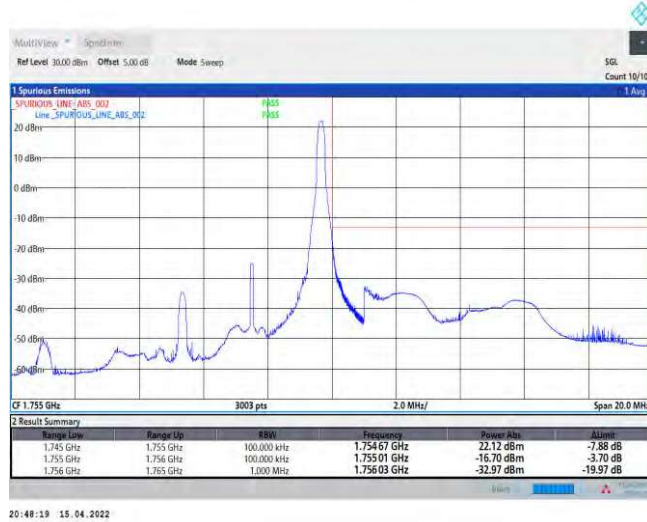
Band4-5MHz-QPSK-19975-1RB#0



Band4-5MHz-QPSK-19975-25RB#0

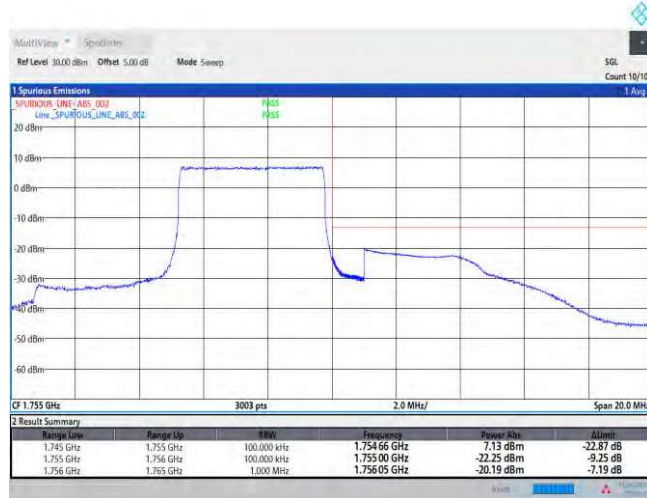


Band4-5MHz-QPSK-20375-1RB#24



20:48:19 15. 04. 2022

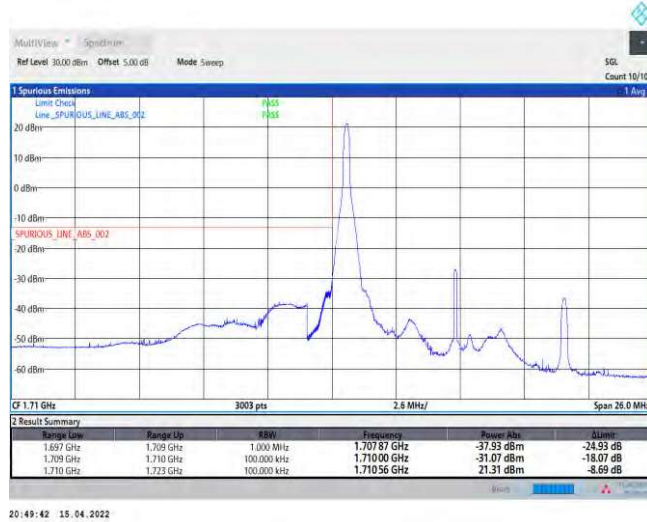
Band4-5MHz-QPSK-20375-25RB#0



20:48:48 15. 04. 2022



Band4-10MHz-QPSK-20000-1RB#0



20:49:42 15. 04. 2022

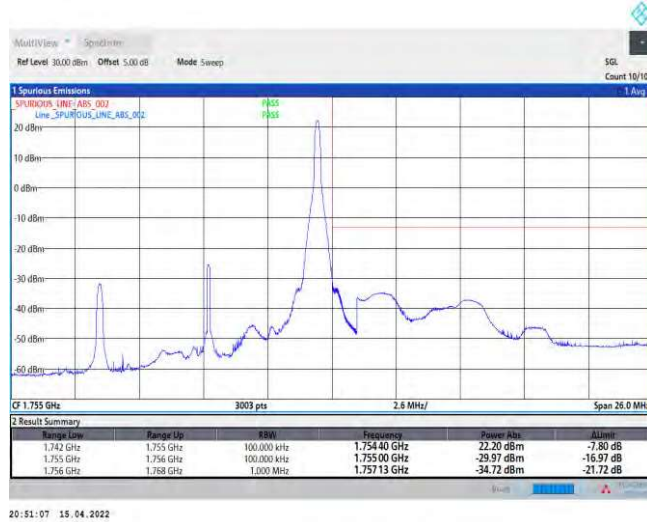
Band4-10MHz-QPSK-20000-50RB#0



20:50:11 15. 04. 2022



Band4-10MHz-QPSK-20350-1RB#49



20:51:07 15. 04. 2022

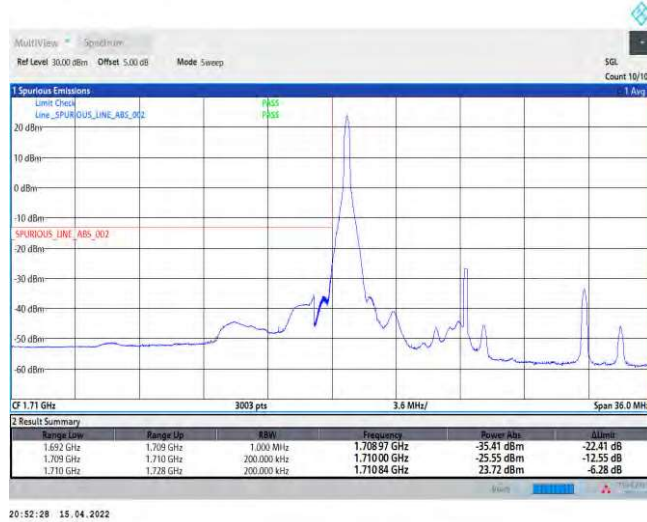
Band4-10MHz-QPSK-20350-50RB#0



20:51:36 15. 04. 2022



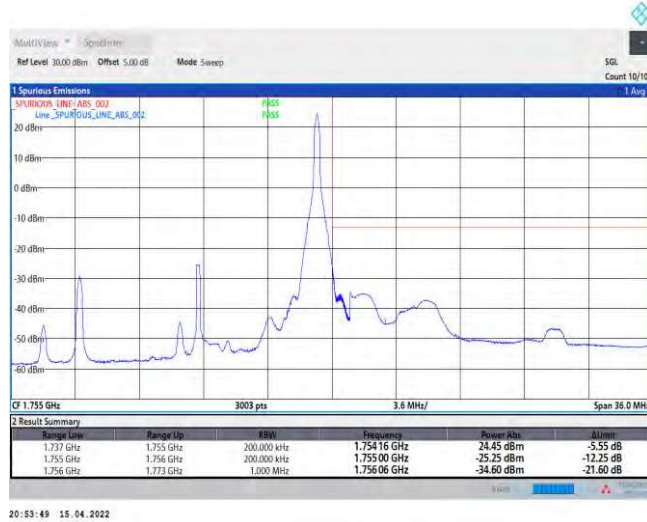
Band4-15MHz-QPSK-20025-1RB#0



Band4-15MHz-QPSK-20025-75RB#0



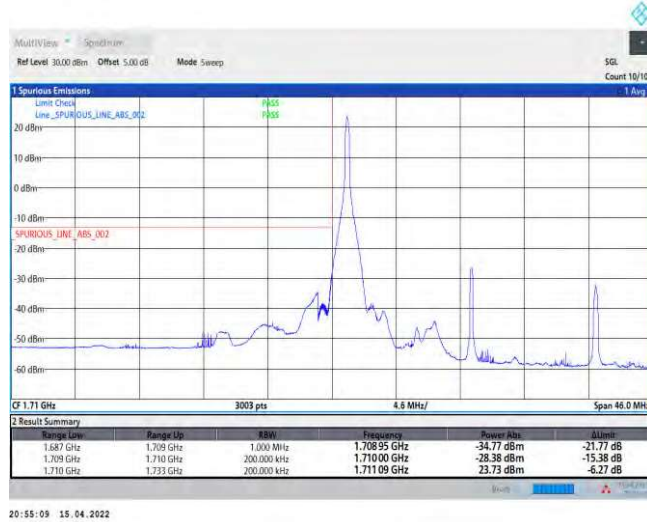
Band4-15MHz-QPSK-20325-1RB#74



Band4-15MHz-QPSK-20325-75RB#0



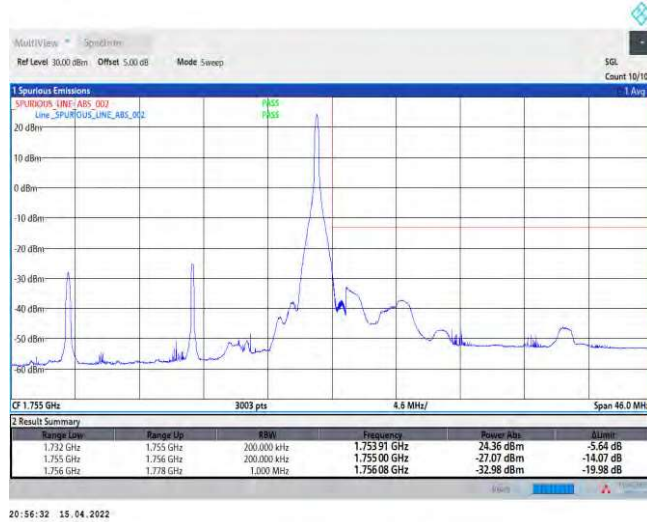
Band4-20MHz-QPSK-20050-1RB#0



Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20300-1RB#99



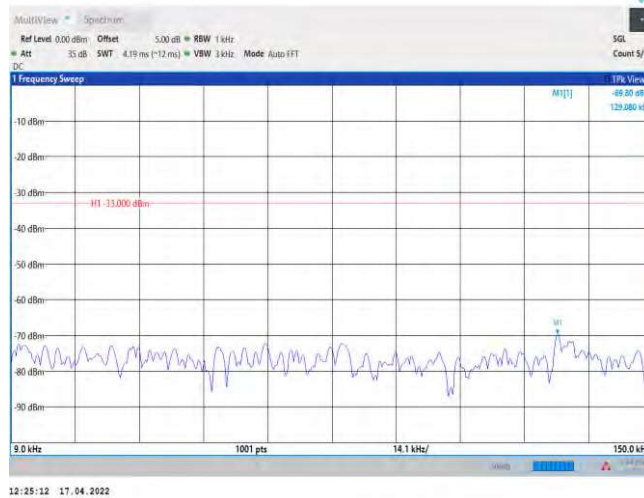
Band4-20MHz-QPSK-20300-100RB#0



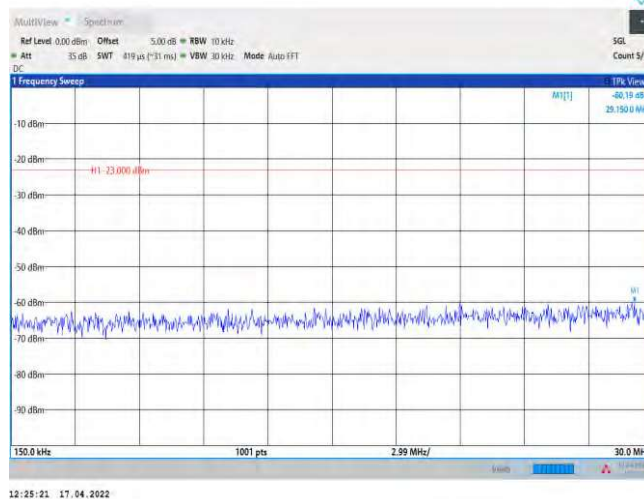
Conducted Spurious Emission

Test Graphs

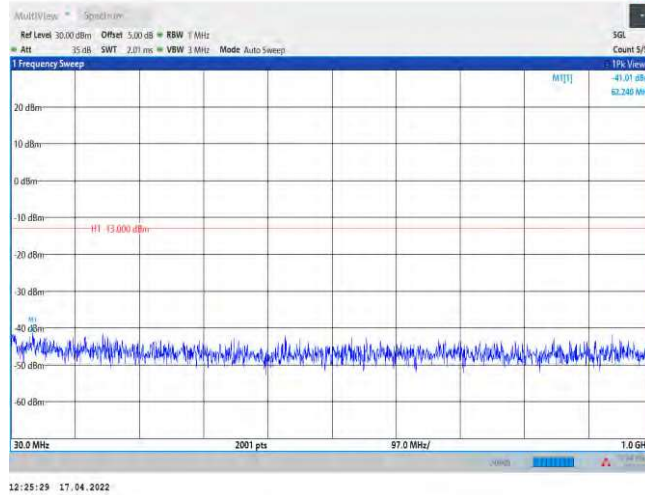
Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz

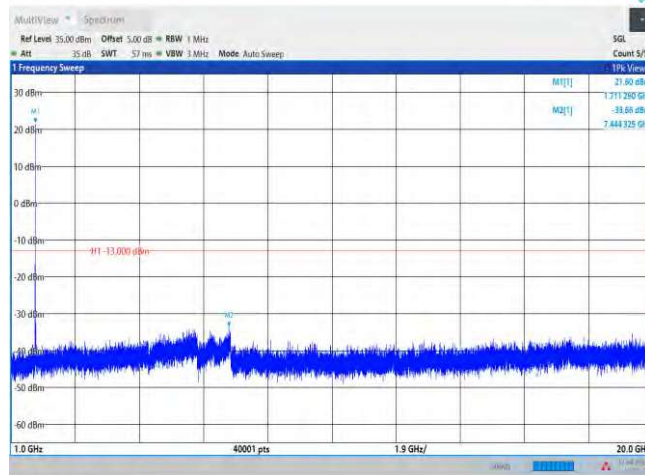


Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



12:25:29 17.04.2022

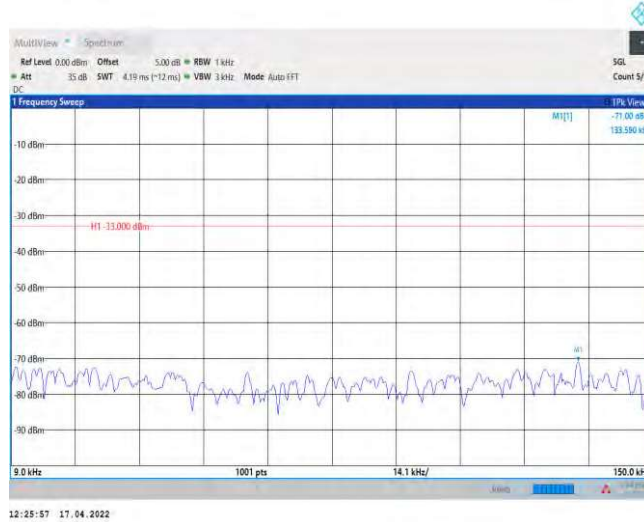
Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



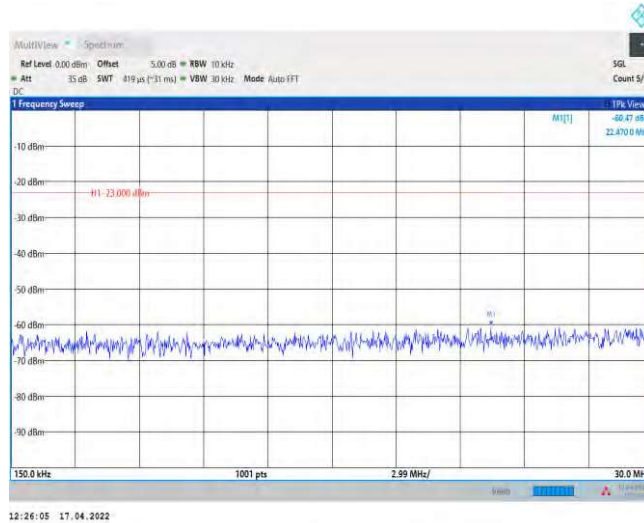
12:25:38 17.04.2022



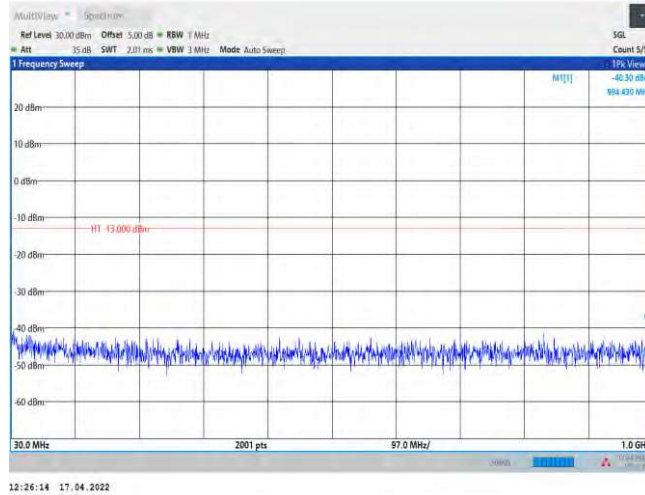
Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



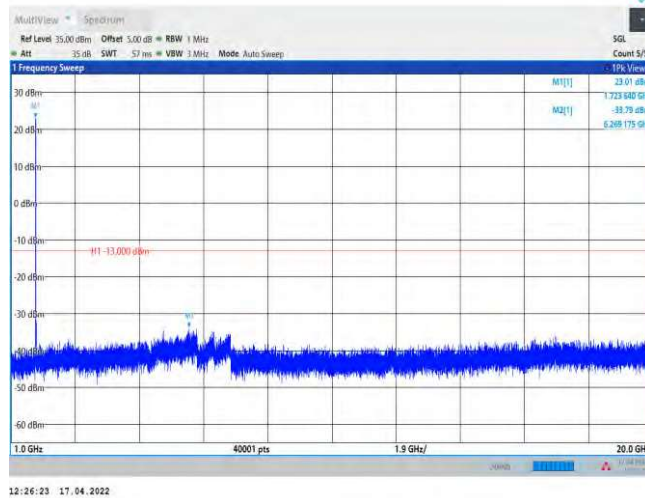
Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



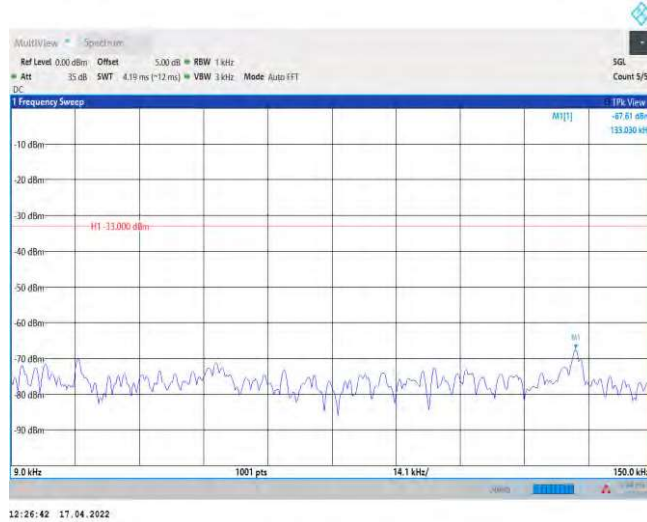
Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



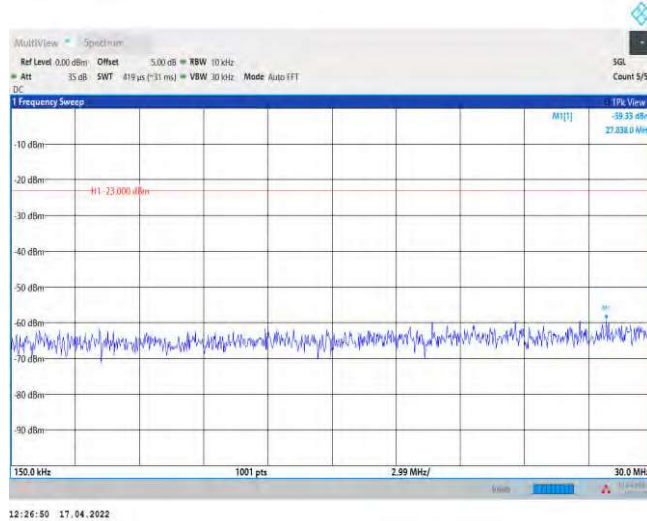
Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



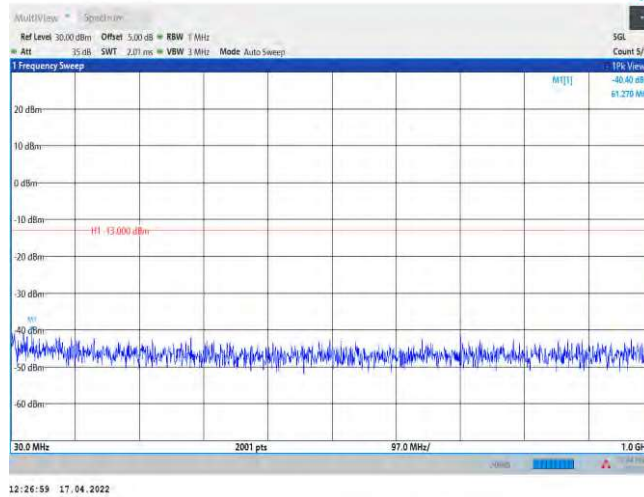
Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



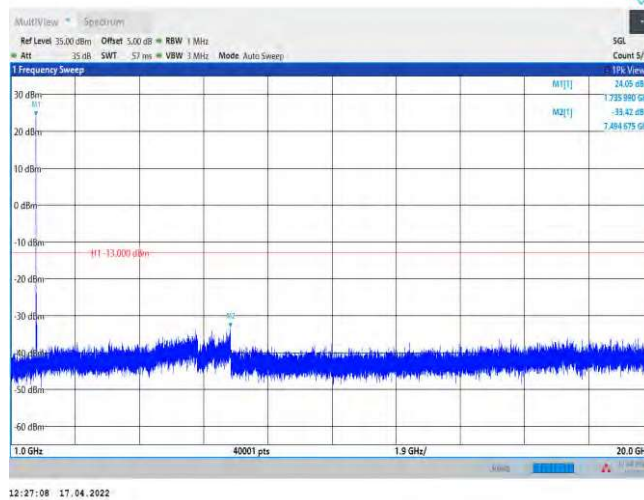
Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



Field Strength of Spurious Radiation

Test Band = LTE Band 4_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	44.86	-46.28	29.45	-67.23	-13.00	54.23	245	341	Horizontal
2	5133.2700	42.84	-45.34	32.95	-64.81	-13.00	51.81	136	267	Horizontal
3	6844.3600	42.47	-44.14	35.89	-61.04	-13.00	48.04	258	147	Horizontal
4	8555.4500	37.47	-41.46	37.66	-61.59	-13.00	48.59	144	117	Horizontal
5	10266.540	35.03	-39.23	38.83	-60.63	-13.00	47.63	102	192	Horizontal
6	11977.630	31.47	-37.51	38.95	-62.36	-13.00	49.36	190	58	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	44.18	-46.28	29.45	-67.91	-13.00	54.91	161	360	Vertical
2	5133.2700	45.92	-45.34	32.95	-61.73	-13.00	48.73	123	179	Vertical
3	6844.3600	45.68	-44.14	35.89	-57.83	-13.00	44.83	261	150	Vertical
4	8555.4500	38.35	-41.46	37.66	-60.71	-13.00	47.71	158	208	Vertical
5	10266.540	34.24	-39.23	38.83	-61.42	-13.00	48.42	191	359	Vertical
6	11977.630	31.56	-37.51	38.95	-62.27	-13.00	49.27	175	150	Vertical





Test Band = LTE Band 4_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	44.00	-46.27	29.47	-68.06	-13.00	55.06	222	344	Horizontal
2	5170.7700	42.85	-45.31	32.97	-64.74	-13.00	51.74	155	300	Horizontal
3	6894.3600	40.65	-44.10	35.95	-62.76	-13.00	49.76	147	283	Horizontal
4	8617.9500	38.98	-41.40	37.78	-59.90	-13.00	46.90	153	360	Horizontal
5	10341.540	34.37	-39.06	38.85	-61.10	-13.00	48.10	259	120	Horizontal
6	12065.130	31.70	-37.44	39.02	-61.98	-13.00	48.98	193	224	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	43.36	-46.27	29.47	-68.70	-13.00	55.70	245	44	Vertical
2	5170.7700	45.45	-45.31	32.97	-62.14	-13.00	49.14	133	192	Vertical
3	6894.3600	46.90	-44.10	35.95	-56.51	-13.00	43.51	259	149	Vertical
4	8617.9500	37.56	-41.40	37.78	-61.32	-13.00	48.32	175	357	Vertical
5	10341.540	34.93	-39.06	38.85	-60.54	-13.00	47.54	142	360	Vertical
6	12065.130	31.71	-37.44	39.02	-61.97	-13.00	48.97	162	352	Vertical





Test Band = LTE Band 4_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	44.59	-46.27	29.50	-67.44	-13.00	54.44	201	342	Horizontal
2	5208.2700	41.81	-45.26	32.98	-65.73	-13.00	52.73	154	57	Horizontal
3	6944.3600	40.30	-43.85	36.01	-62.80	-13.00	49.80	175	4	Horizontal
4	8680.4500	38.17	-41.62	37.88	-60.83	-13.00	47.83	136	117	Horizontal
5	10416.540	33.66	-38.97	38.88	-61.70	-13.00	48.70	259	360	Horizontal
6	12152.630	32.75	-37.42	39.09	-60.84	-13.00	47.84	155	359	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	43.19	-46.27	29.50	-68.84	-13.00	55.84	215	43	Vertical
2	5208.2700	46.42	-45.26	32.98	-61.12	-13.00	48.12	148	165	Vertical
3	6944.3600	40.52	-43.85	36.01	-62.58	-13.00	49.58	156	179	Vertical
4	8680.4500	38.45	-41.62	37.88	-60.55	-13.00	47.55	299	360	Vertical
5	10416.540	33.91	-38.97	38.88	-61.45	-13.00	48.45	182	165	Vertical
6	12152.630	31.87	-37.42	39.09	-61.72	-13.00	48.72	302	283	Vertical



Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-2.30	-0.001328	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-1.20	-0.000693	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-2.20	-0.001270	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	0.00	0.000000	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-2.20	-0.001270	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-2.00	-0.001154	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.10	-0.000058	PASS

The End

