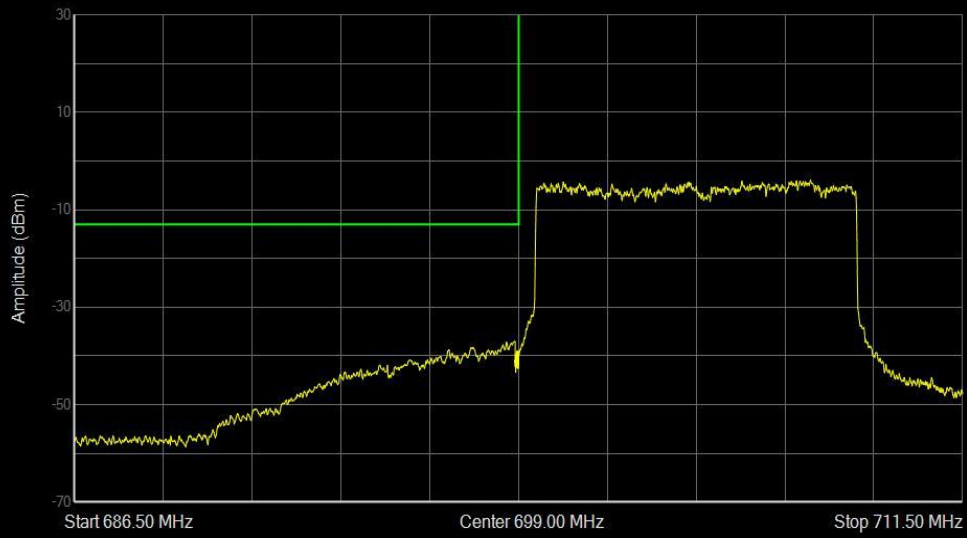
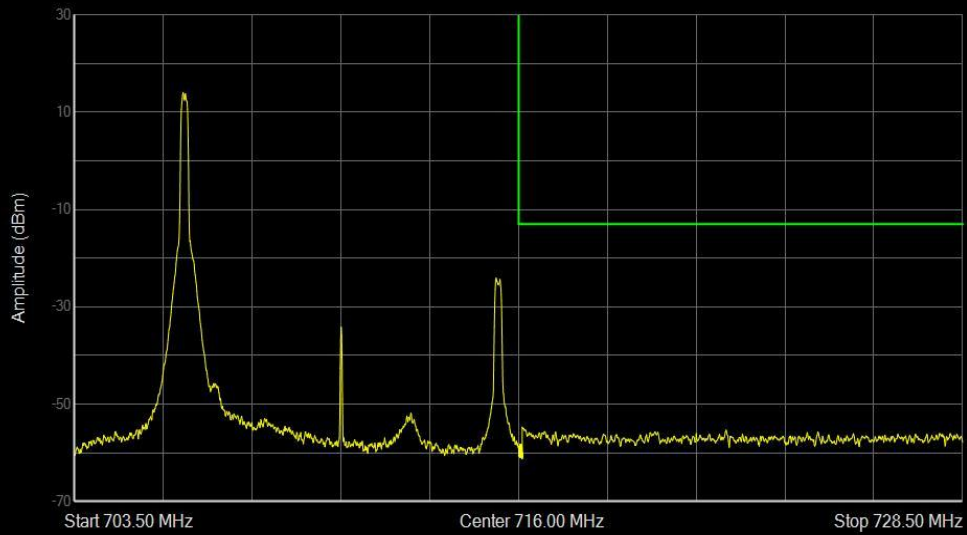


Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



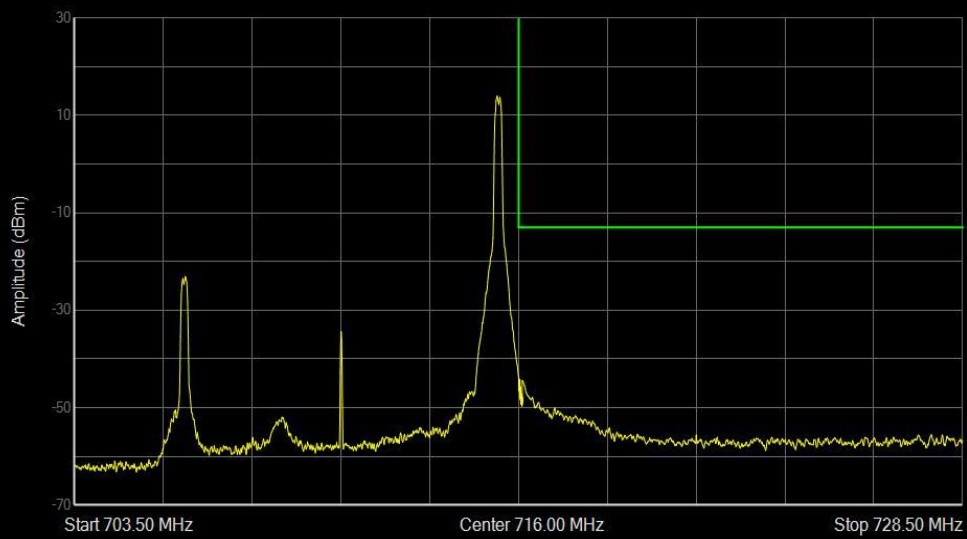
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698.9	100	698.8876	-37.01	-13
2	698.9	699	30	698.9567	-38.99	-13

Band12 QPSK BW=10MHz Channel=23130 RB Size=1 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.046	-58.21	-13
2	716.1	728.5	100	716.1372	-54.99	-13

Band12 QPSK BW=10MHz Channel=23130 RB Size=1 Position=#Max



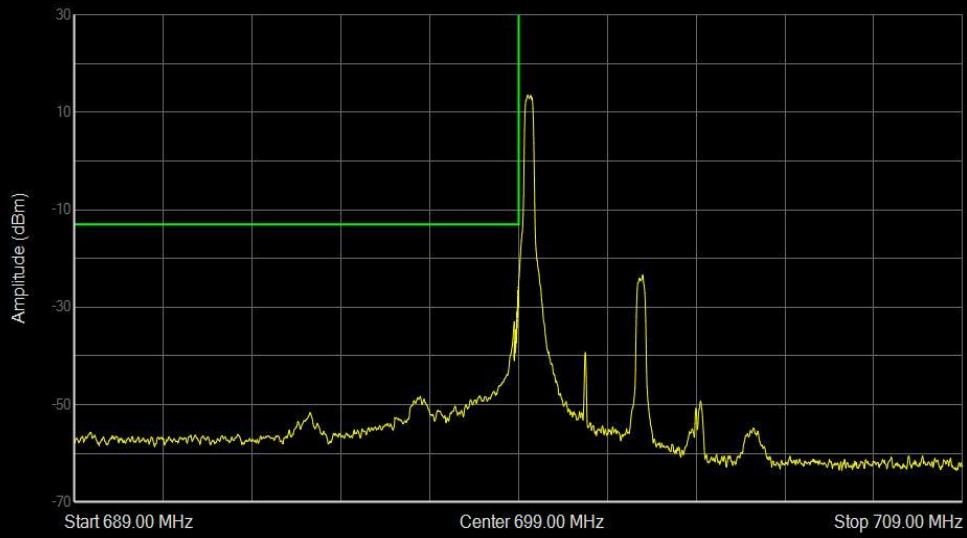
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0022	-43.74	-13
2	716.1	728.5	100	716.1124	-44.42	-13

Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



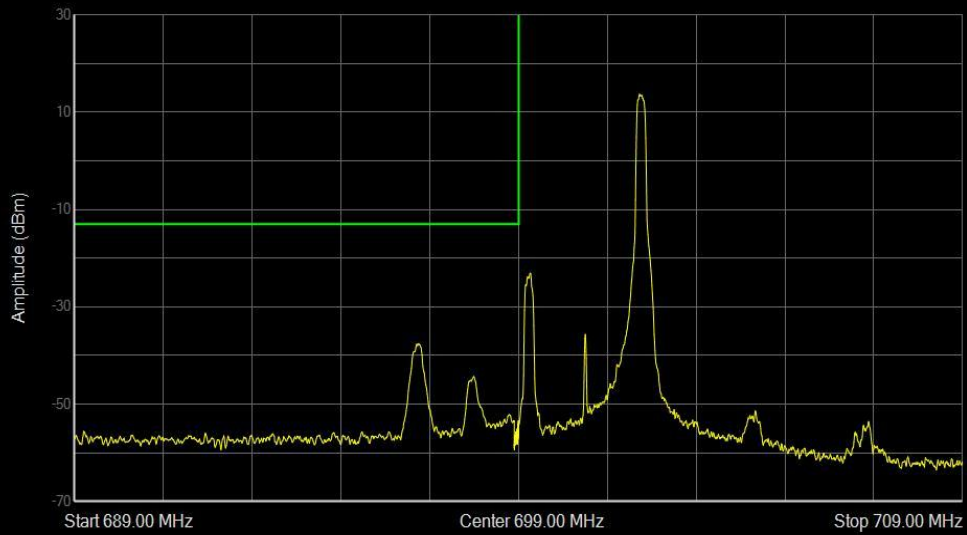
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0362	-39.72	-13
2	716.1	728.5	100	716.1248	-36.43	-13

Band12 QPSK BW=3MHz Channel=23025 RB Size=1 Position=#0



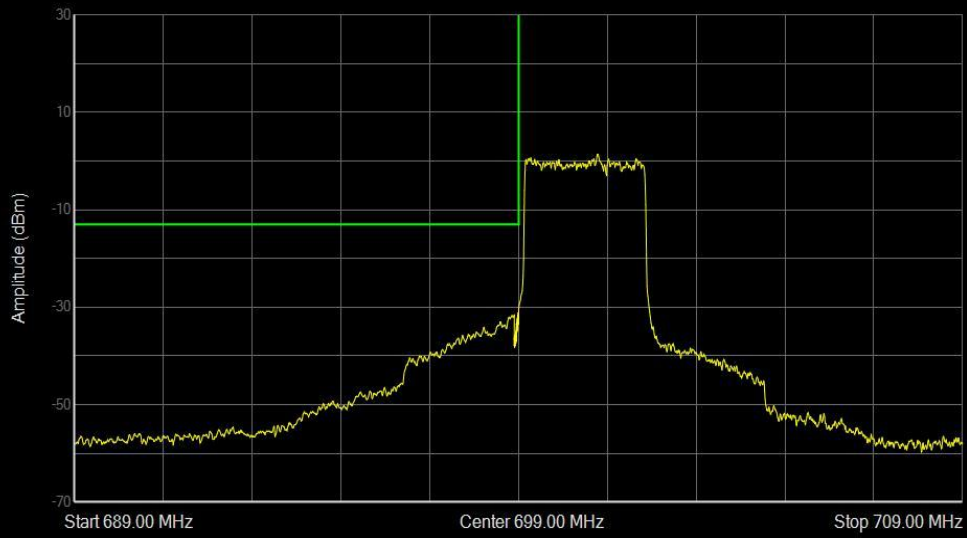
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-32.94	-13
2	698.9	699	30	698.9982	-25.73	-13

Band12 QPSK BW=3MHz Channel=23025 RB Size=1 Position=#Max



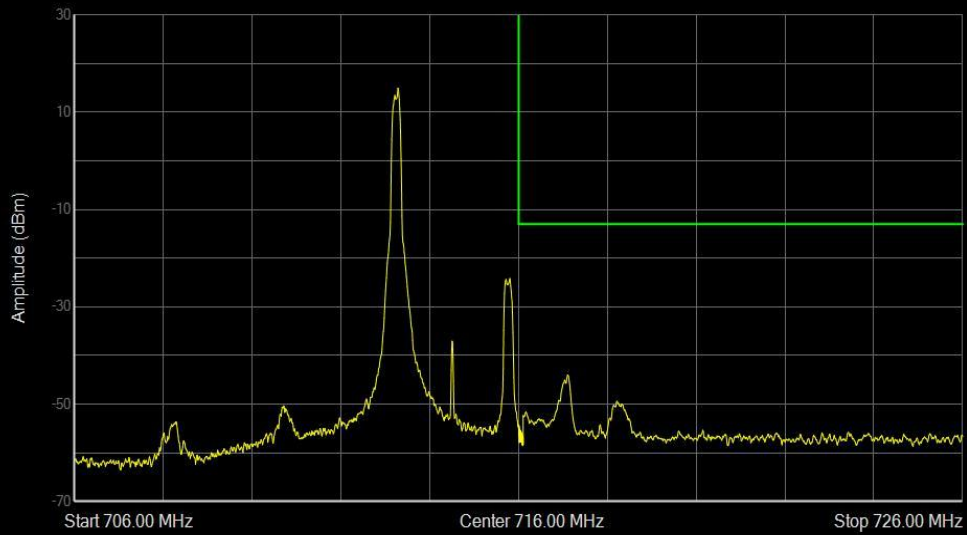
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	696.7418	-37.58	-13
2	698.9	699	30	698.9916	-53.44	-13

Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0



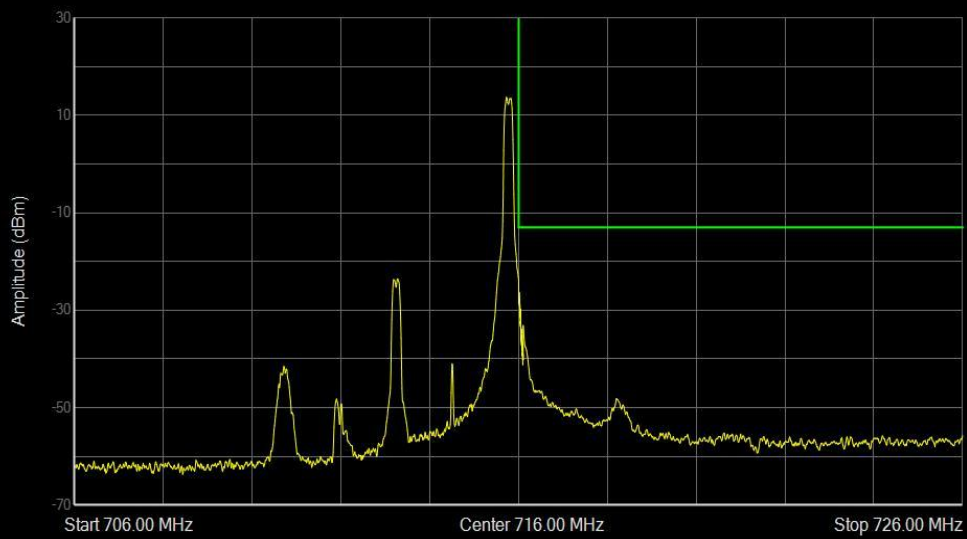
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-31.55	-13
2	698.9	699	30	698.9909	-31.13	-13

Band12 QPSK BW=3MHz Channel=23165 RB Size=1 Position=#0



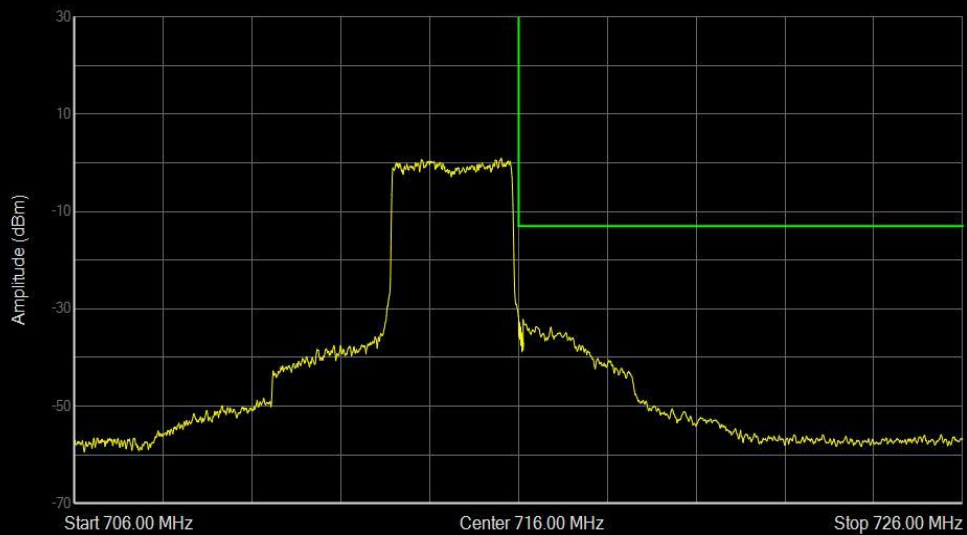
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.005	-54.43	-13
2	716.1	726	100	717.0999	-44	-13

Band12 QPSK BW=3MHz Channel=23165 RB Size=1 Position=#Max



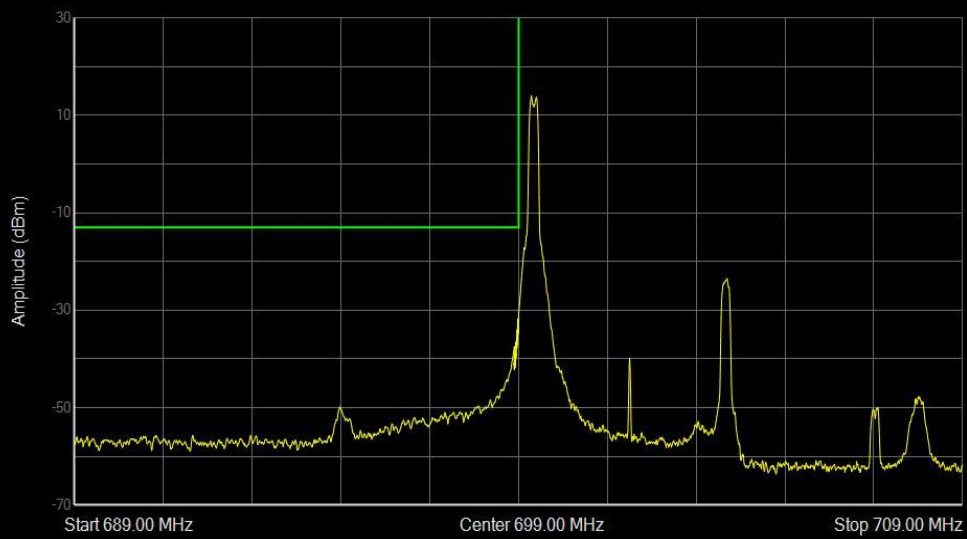
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0085	-26.4	-13
2	716.1	726	100	716.1099	-34.29	-13

Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0



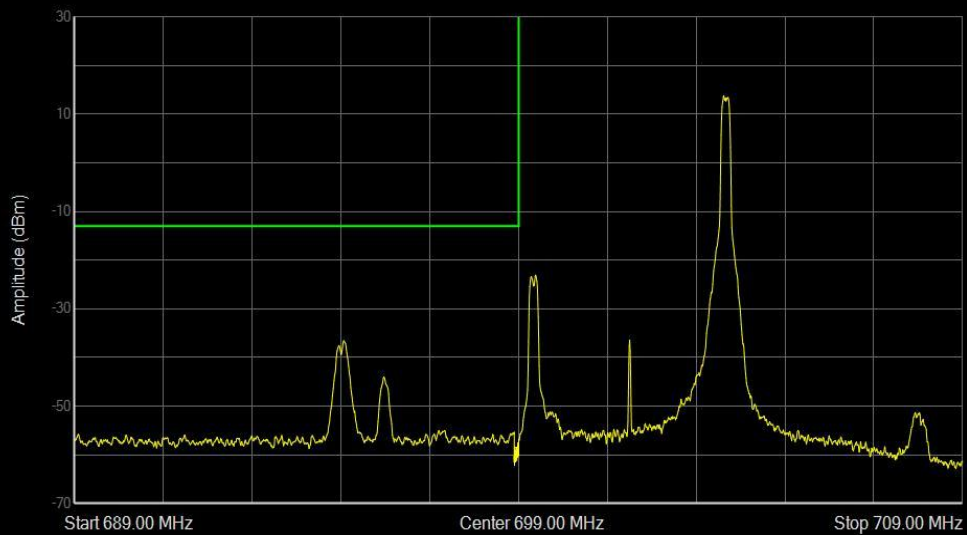
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0037	-32.61	-13
2	716.1	726	100	716.1099	-32.78	-13

Band12 QPSK BW=5MHz Channel=23035 RB Size=1 Position=#0



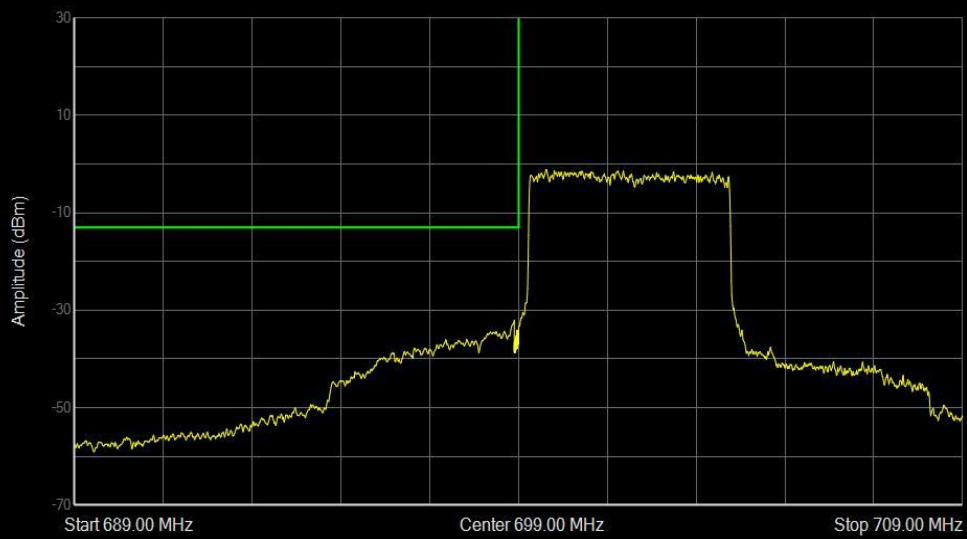
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-37.46	-13
2	698.9	699	30	698.9993	-30.87	-13

Band12 QPSK BW=5MHz Channel=23035 RB Size=1 Position=#Max



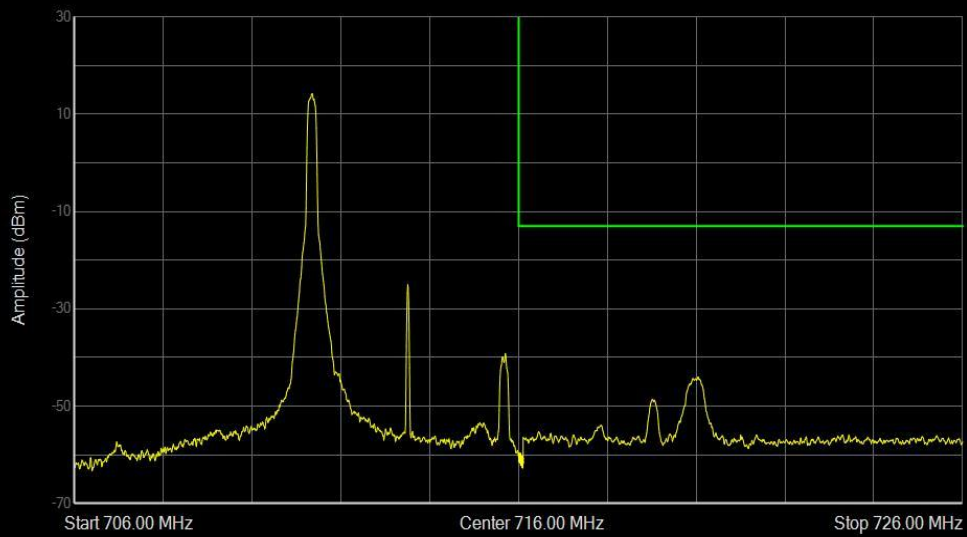
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	695.0588	-36.56	-13
2	698.9	699	30	698.9894	-57.58	-13

Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



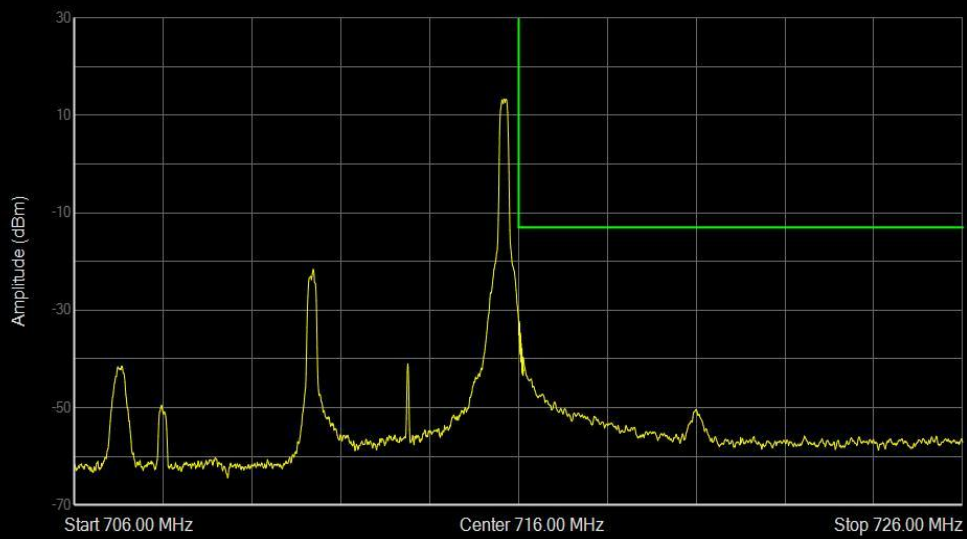
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-32.03	-13
2	698.9	699	30	698.9562	-34.1	-13

Band12 QPSK BW=5MHz Channel=23155 RB Size=1 Position=#0



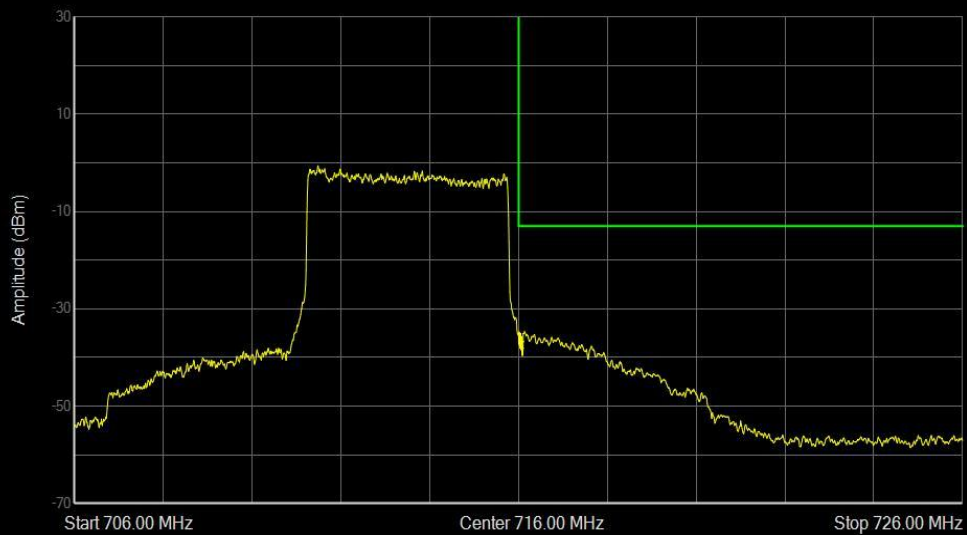
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0012	-59.65	-13
2	716.1	726	100	720.0402	-43.99	-13

Band12 QPSK BW=5MHz Channel=23155 RB Size=1 Position=#Max



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0053	-32.29	-13
2	716.1	726	100	716.1099	-40.28	-13

Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0

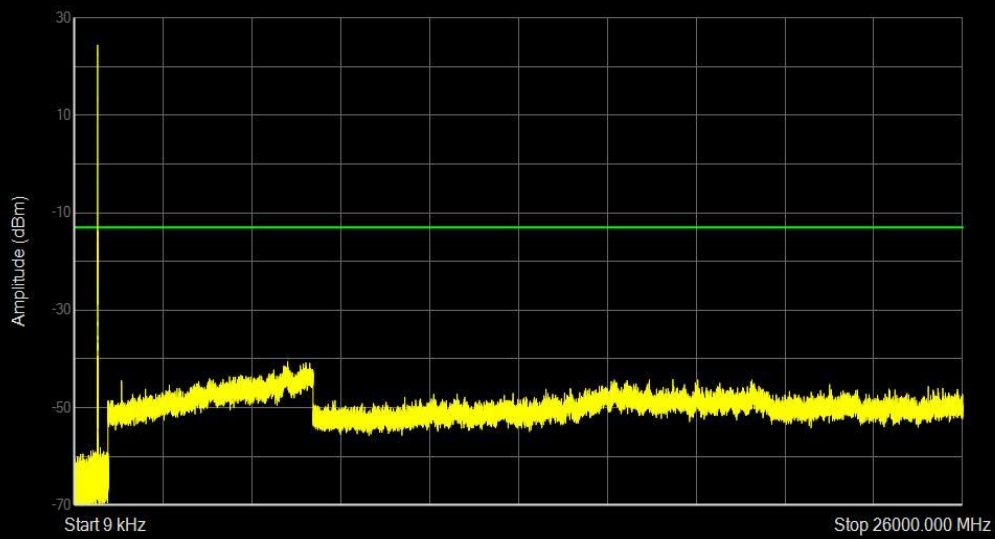


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0022	-34.77	-13
2	716.1	726	100	716.1297	-34.67	-13

06 Out-of-band emissions

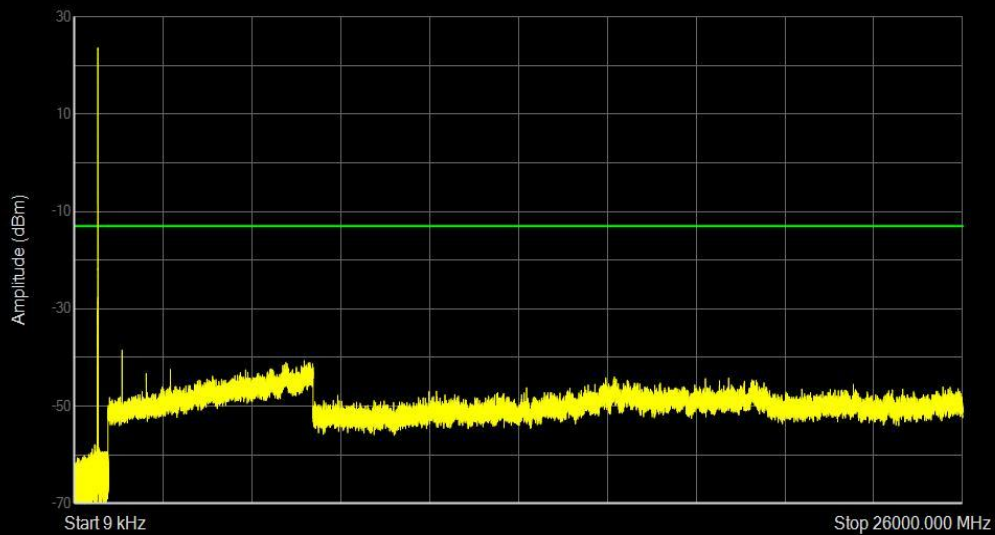
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band12	1.4	23017	1	#0	QAM16	6256.67	-40.57	-13	PASS
Band12	1.4	23095	1	#0	QAM16	1414.17	-38.52	-13	PASS
Band12	1.4	23173	1	#0	QAM16	2859.17	-39.38	-13	PASS
Band12	3	23025	1	#0	QAM16	6857.50	-39.67	-13	PASS
Band12	3	23095	1	#0	QAM16	1412.50	-37.75	-13	PASS
Band12	3	23165	1	#0	QAM16	2852.50	-39.61	-13	PASS
Band12	5	23035	1	#0	QAM16	6180.00	-40.14	-13	PASS
Band12	5	23095	1	#0	QAM16	1410.00	-38.48	-13	PASS
Band12	5	23155	1	#0	QAM16	2845.00	-40.03	-13	PASS
Band12	1.4	23017	1	#0	QPSK	6947.50	-40.53	-13	PASS
Band12	1.4	23095	1	#0	QPSK	6830.83	-40.89	-13	PASS
Band12	1.4	23173	1	#0	QPSK	1429.17	-38.36	-13	PASS
Band12	10	23060	1	#0	QPSK	6209.17	-41.25	-13	PASS
Band12	10	23095	1	#0	QPSK	2108.33	-39.95	-13	PASS
Band12	10	23130	1	#0	QPSK	1413.33	-38.67	-13	PASS
Band12	3	23025	1	#0	QPSK	6867.50	-41.05	-13	PASS
Band12	3	23095	1	#0	QPSK	1412.50	-39.62	-13	PASS
Band12	3	23165	1	#0	QPSK	6902.50	-40.61	-13	PASS
Band12	5	23035	1	#0	QPSK	6881.67	-40.78	-13	PASS
Band12	5	23095	1	#0	QPSK	6986.67	-38.99	-13	PASS
Band12	5	23155	1	#0	QPSK	6212.50	-39.35	-13	PASS

Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=1 Position=#0



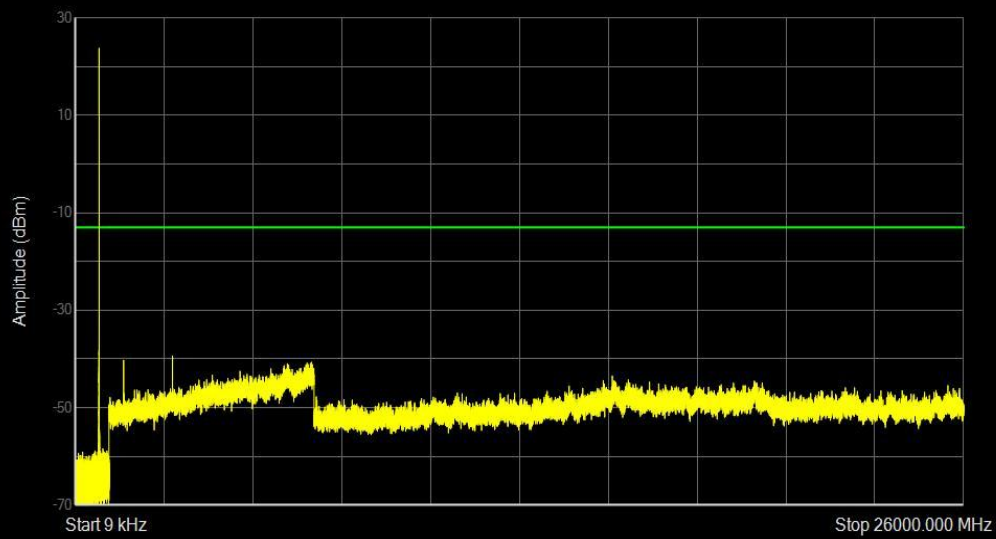
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0515632	-58.63	-13
2	0.15	30	10	0.164925	-61.94	-13
3	30	1000	100	777.158666666667	-58.18	-13
4	1000	26000	1000	6256.66666666667	-40.57	-13

Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=1 Position=#0



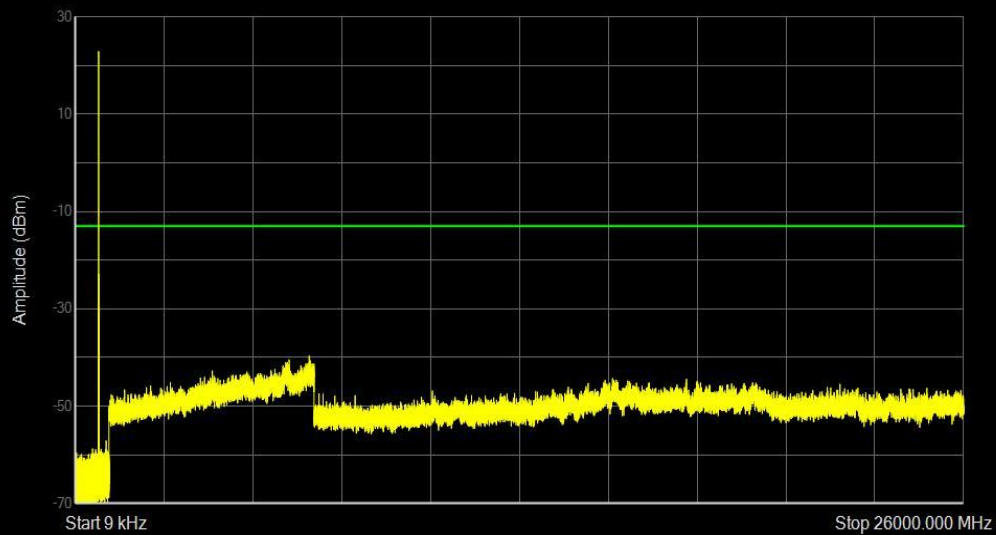
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0162662	-60.87	-13
2	0.15	30	10	0.154975	-60.59	-13
3	30	1000	100	613.131666666667	-57.92	-13
4	1000	26000	1000	1414.16666666667	-38.52	-13

Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=1 Position=#0



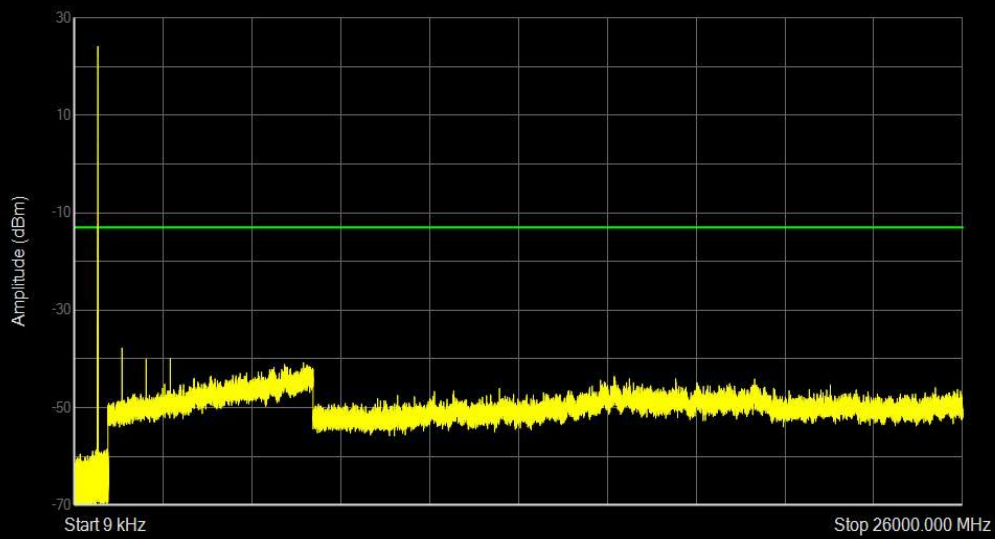
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0960064	-59.5	-13
2	0.15	30	10	0.15796	-59.71	-13
3	30	1000	100	823.039666666667	-58.48	-13
4	1000	26000	1000	2859.16666666667	-39.38	-13

Band12 QAM16 BW=3MHz Channel=23025 RB Size=1 Position=#0



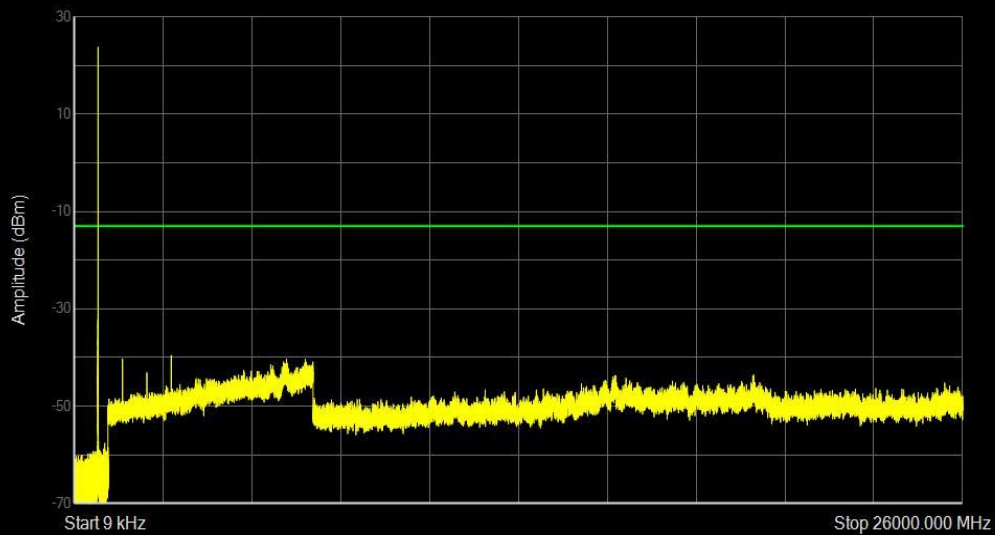
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0612546	-61.18	-13
2	0.15	30	10	0.15	-60.35	-13
3	30	1000	100	919.425333333333	-57.14	-13
4	1000	26000	1000	6857.5	-39.67	-13

Band12 QAM16 BW=3MHz Channel=23095 RB Size=1 Position=#0



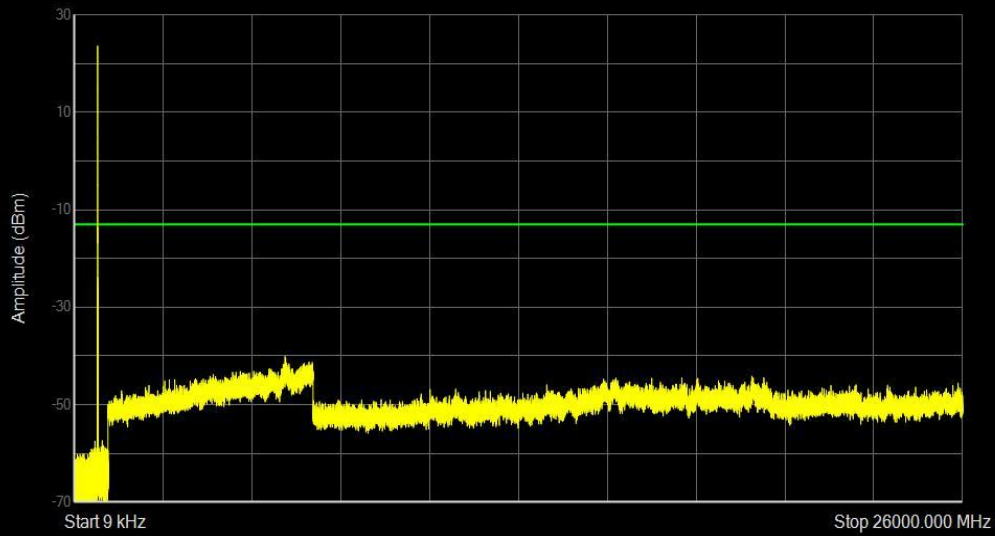
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0518593	-58.58	-13
2	0.15	30	10	0.15	-60.71	-13
3	30	1000	100	975.491333333333	-58.53	-13
4	1000	26000	1000	1412.5	-37.75	-13

Band12 QAM16 BW=3MHz Channel=23165 RB Size=1 Position=#0



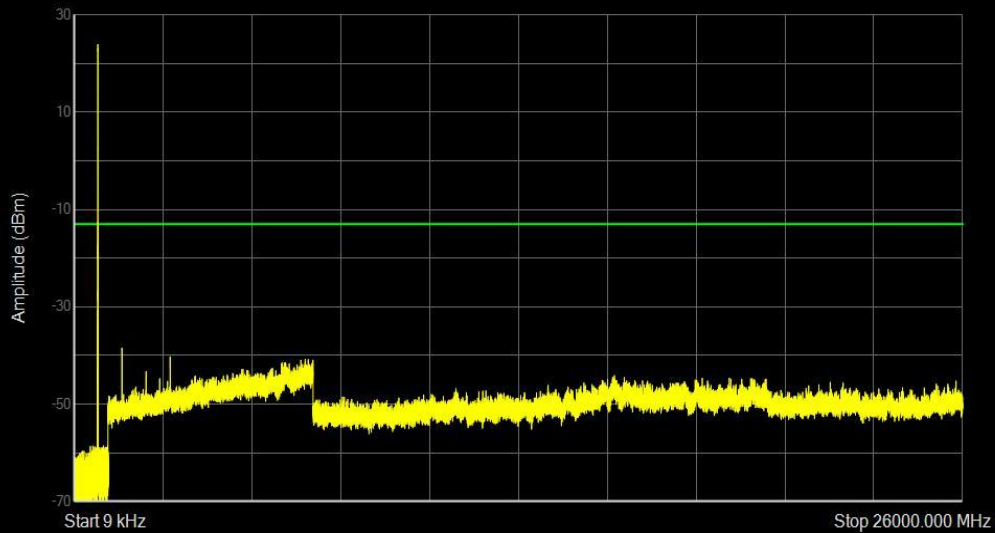
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0956915	-61.87	-13
2	0.15	30	10	0.166915	-62.74	-13
3	30	1000	100	903.937666666667	-57.65	-13
4	1000	26000	1000	2852.5	-39.61	-13

Band12 QAM16 BW=5MHz Channel=23035 RB Size=1 Position=#0



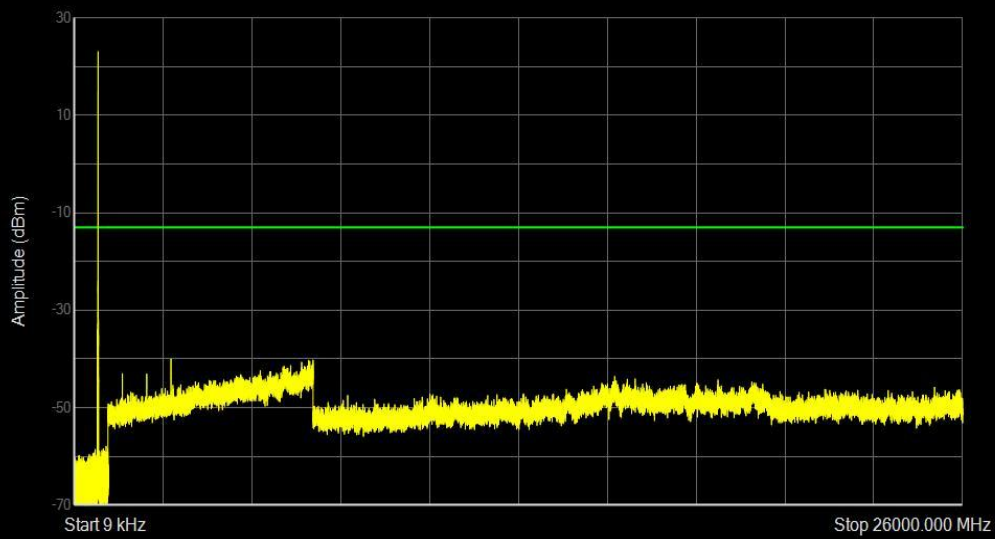
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0774461	-60.05	-13
2	0.15	30	10	0.15	-62.21	-13
3	30	1000	100	834.615	-57.4	-13
4	1000	26000	1000	6180	-40.14	-13

Band12 QAM16 BW=5MHz Channel=23095 RB Size=1 Position=#0



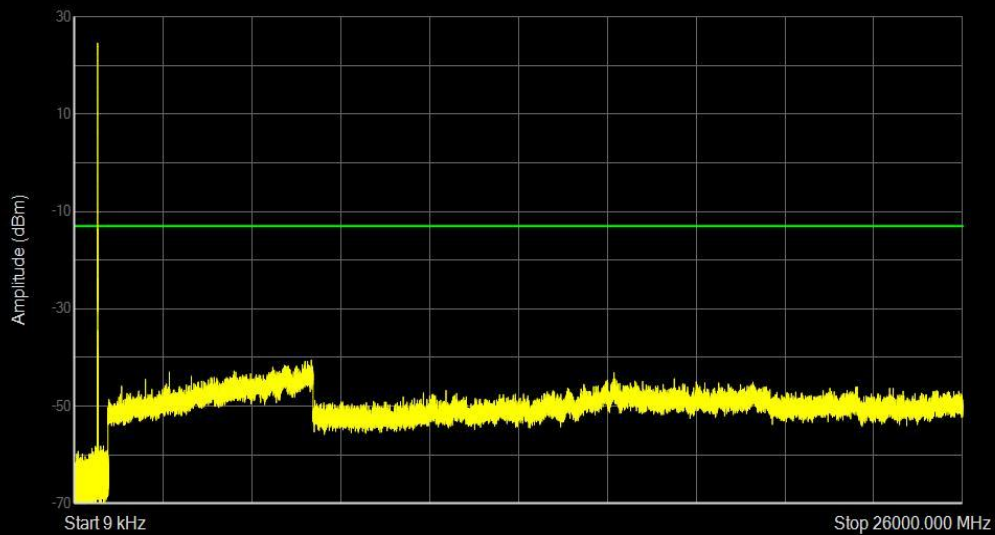
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0774931	-58.77	-13
2	0.15	30	10	0.164925	-58.84	-13
3	30	1000	100	991.755	-58.53	-13
4	1000	26000	1000	1410	-38.48	-13

Band12 QAM16 BW=5MHz Channel=23155 RB Size=1 Position=#0



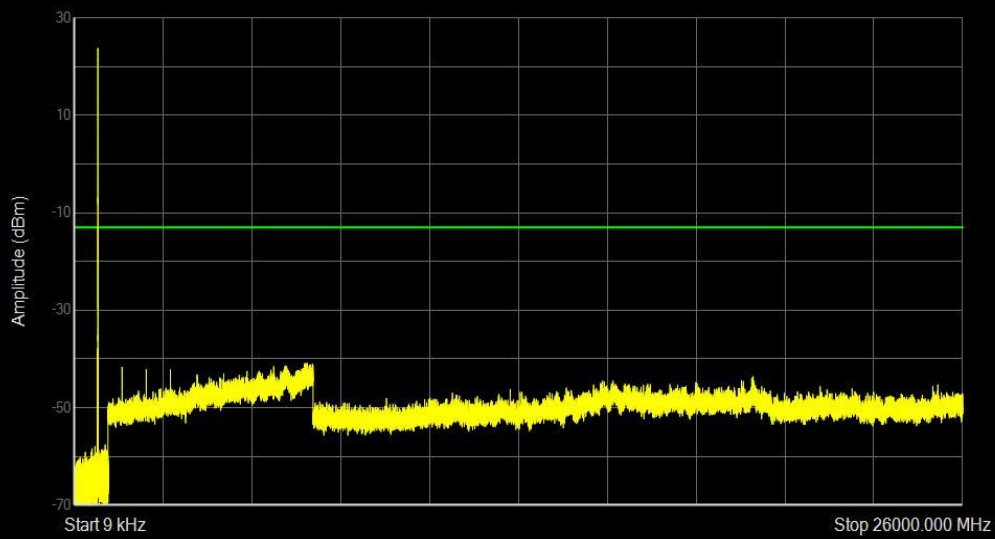
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0779161	-61.75	-13
2	0.15	30	10	0.150995	-57.42	-13
3	30	1000	100	947.102666666667	-57.93	-13
4	1000	26000	1000	2845	-40.03	-13

Band12 QPSK BW=1.4MHz Channel=23017 RB Size=1 Position=#0



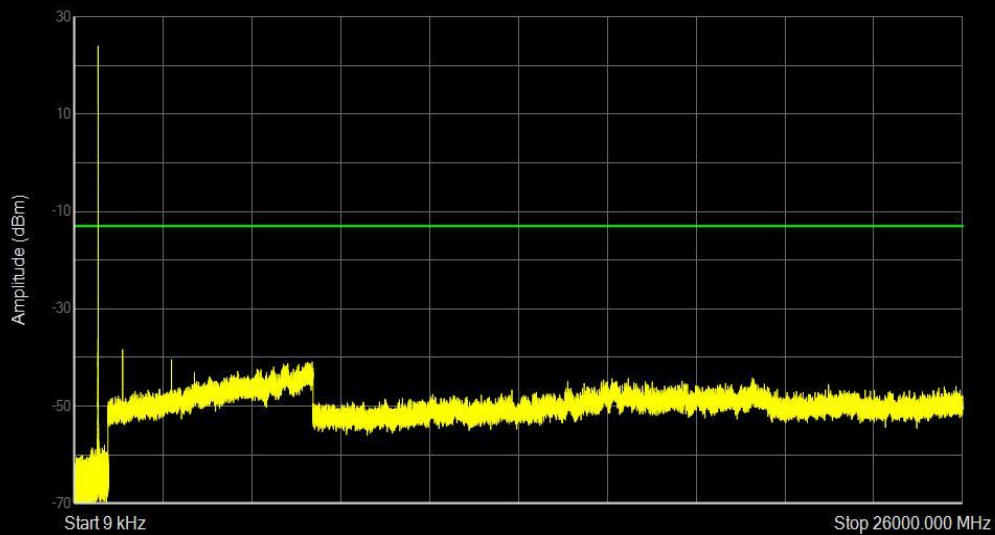
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1003304	-60.79	-13
2	0.15	30	10	0.15597	-56.26	-13
3	30	1000	100	868.144666666667	-58.17	-13
4	1000	26000	1000	6947.5	-40.53	-13

Band12 QPSK BW=1.4MHz Channel=23095 RB Size=1 Position=#0



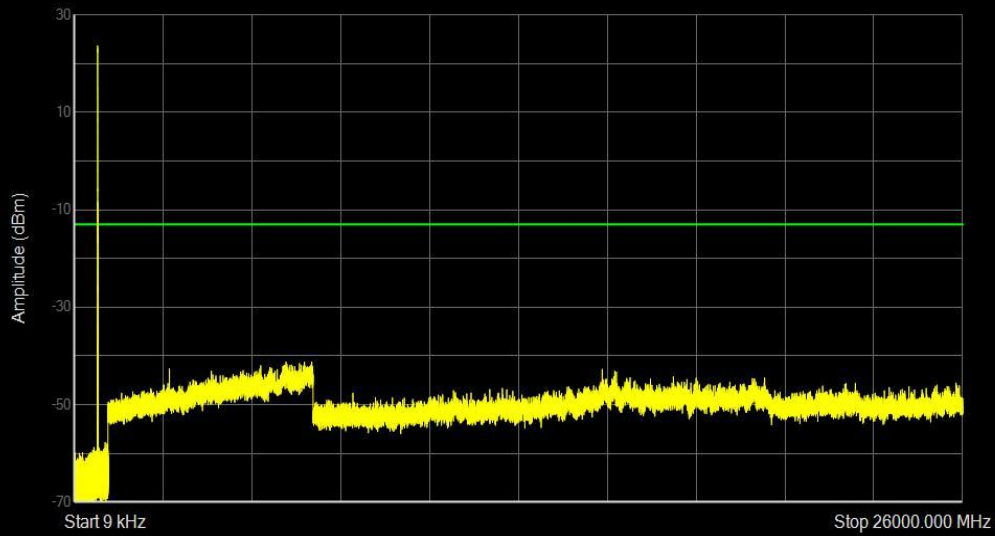
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0719283	-58.72	-13
2	0.15	30	10	0.15	-57.38	-13
3	30	1000	100	917.905666666667	-57.64	-13
4	1000	26000	1000	6830.83333333333	-40.89	-13

Band12 QPSK BW=1.4MHz Channel=23173 RB Size=1 Position=#0



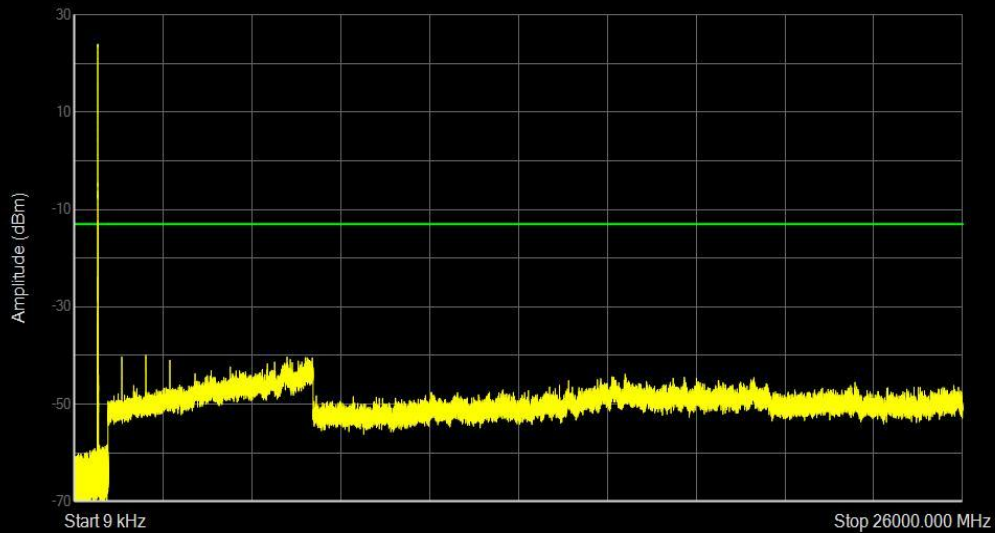
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.091861	-61.52	-13
2	0.15	30	10	0.154975	-60.53	-13
3	30	1000	100	900.478	-58.06	-13
4	1000	26000	1000	1429.16666666667	-38.36	-13

Band12 QPSK BW=10MHz Channel=23060 RB Size=1 Position=#0



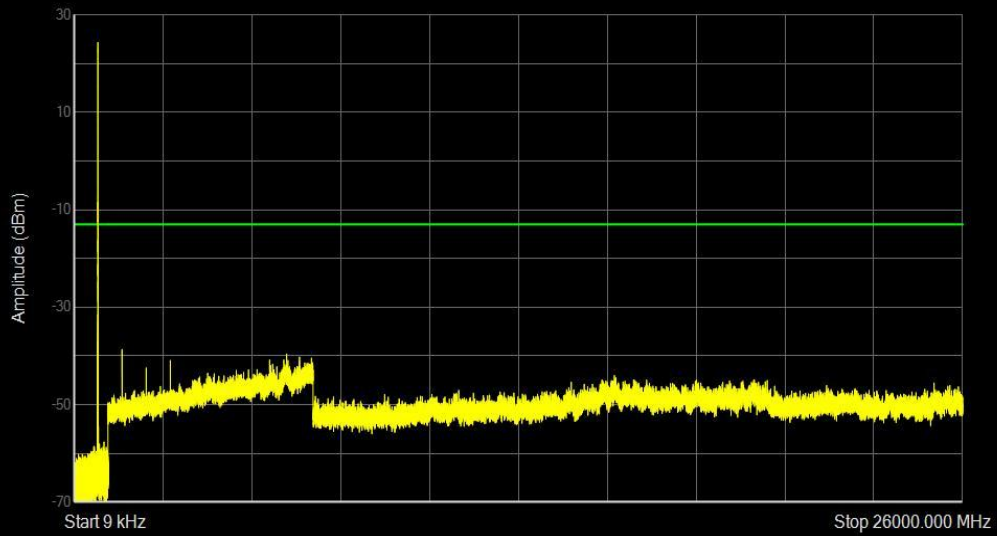
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0877579	-60.8	-13
2	0.15	30	10	0.1699	-58.92	-13
3	30	1000	100	919.781	-57.76	-13
4	1000	26000	1000	6209.1666666667	-41.25	-13

Band12 QPSK BW=10MHz Channel=23095 RB Size=1 Position=#0



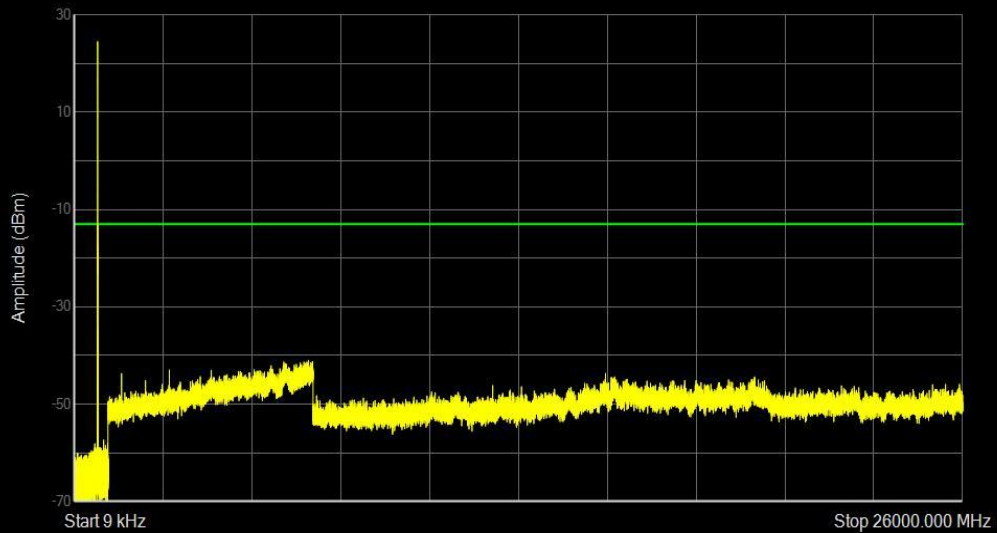
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0923545	-60.51	-13
2	0.15	30	10	0.15	-55.92	-13
3	30	1000	100	984.8356666667	-58.39	-13
4	1000	26000	1000	2108.3333333333	-39.95	-13

Band12 QPSK BW=10MHz Channel=23130 RB Size=1 Position=#0



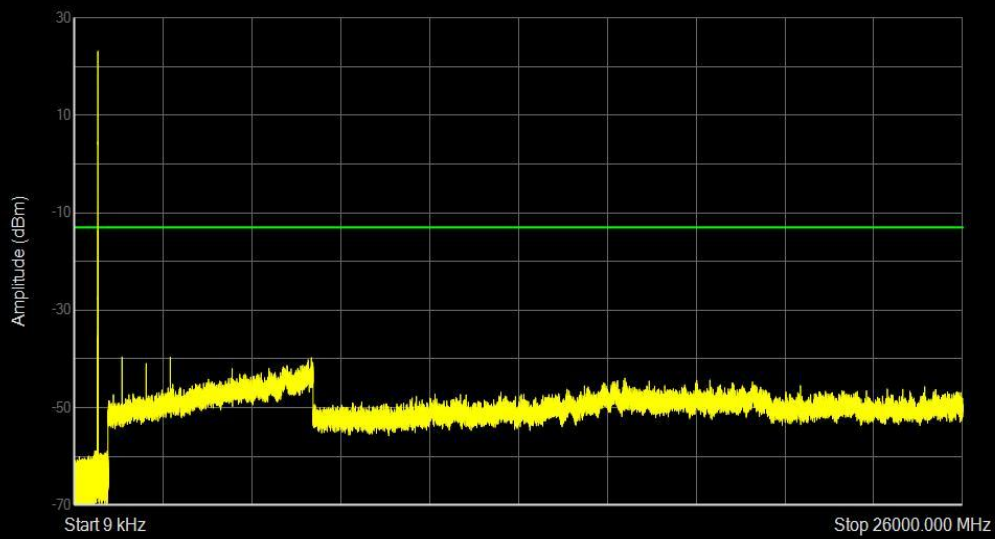
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.091297	-60.26	-13
2	0.15	30	10	0.150995	-58.91	-13
3	30	1000	100	884.440666666667	-57.67	-13
4	1000	26000	1000	1413.33333333333	-38.67	-13

Band12 QPSK BW=3MHz Channel=23025 RB Size=1 Position=#0



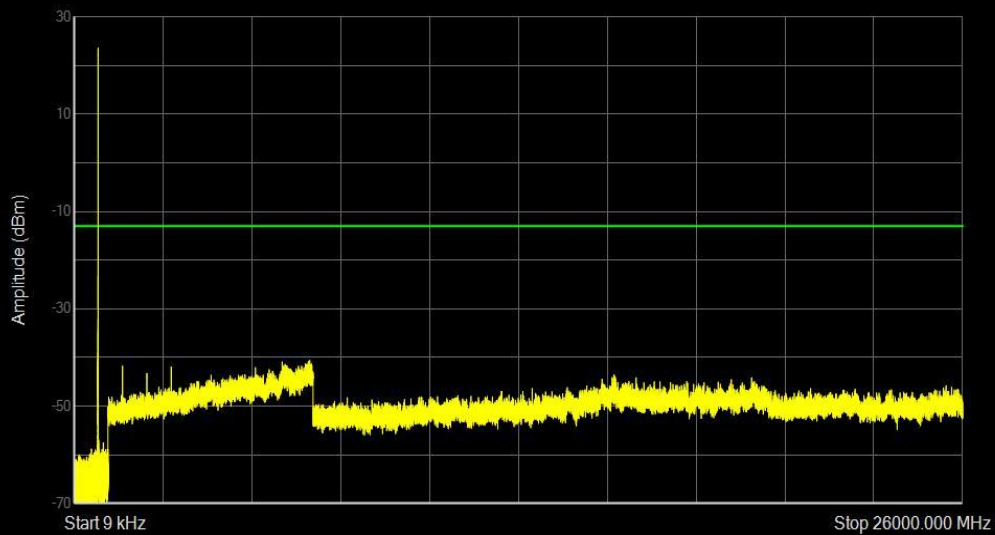
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0906672	-58.98	-13
2	0.15	30	10	0.15	-58.9	-13
3	30	1000	100	873.576666666667	-57.39	-13
4	1000	26000	1000	6867.5	-41.05	-13

Band12 QPSK BW=3MHz Channel=23095 RB Size=1 Position=#0



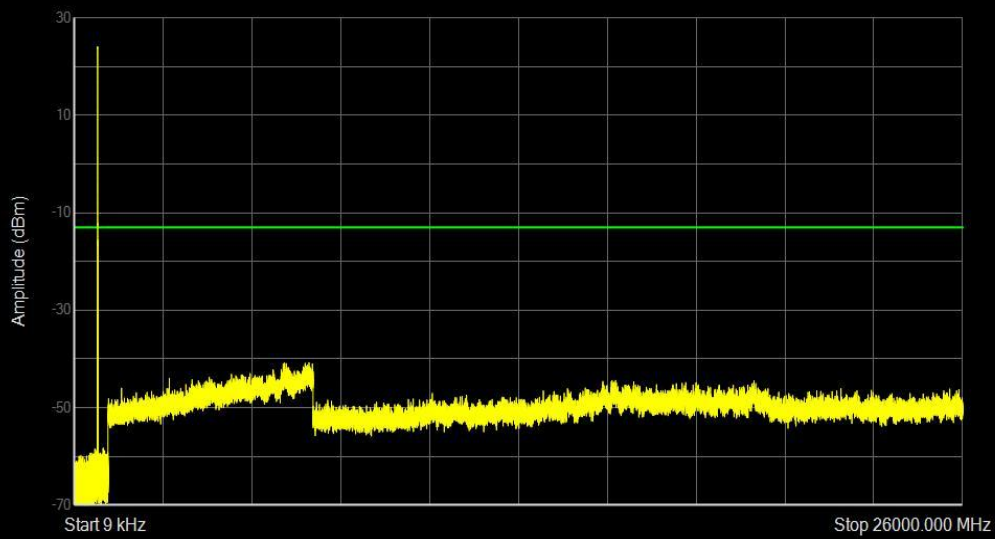
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0861505	-59.82	-13
2	0.15	30	10	0.162935	-59.8	-13
3	30	1000	100	618.111	-58.89	-13
4	1000	26000	1000	1412.5	-39.62	-13

Band12 QPSK BW=3MHz Channel=23165 RB Size=1 Position=#0



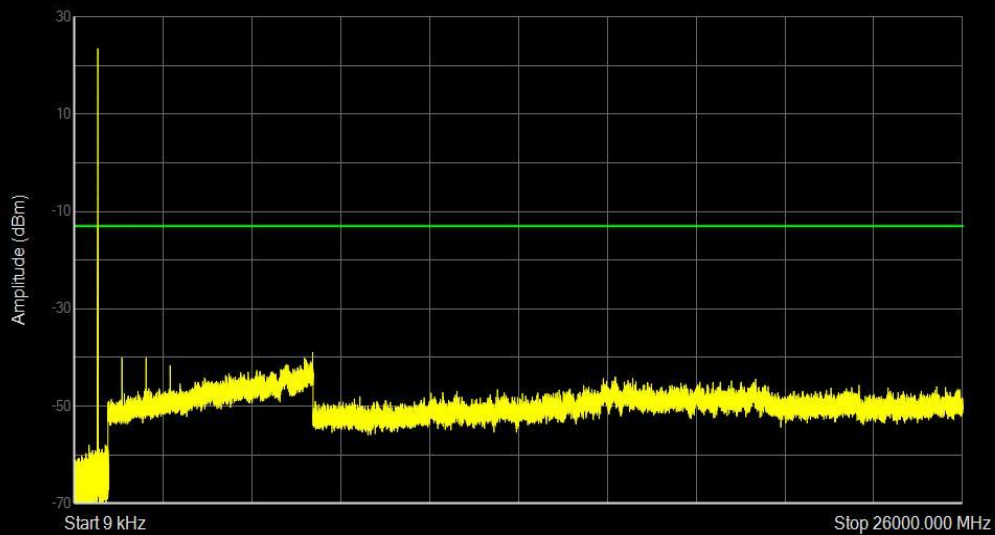
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1065908	-61.21	-13
2	0.15	30	10	0.15	-57.21	-13
3	30	1000	100	865.461	-57.54	-13
4	1000	26000	1000	6902.5	-40.61	-13

Band12 QPSK BW=5MHz Channel=23035 RB Size=1 Position=#0



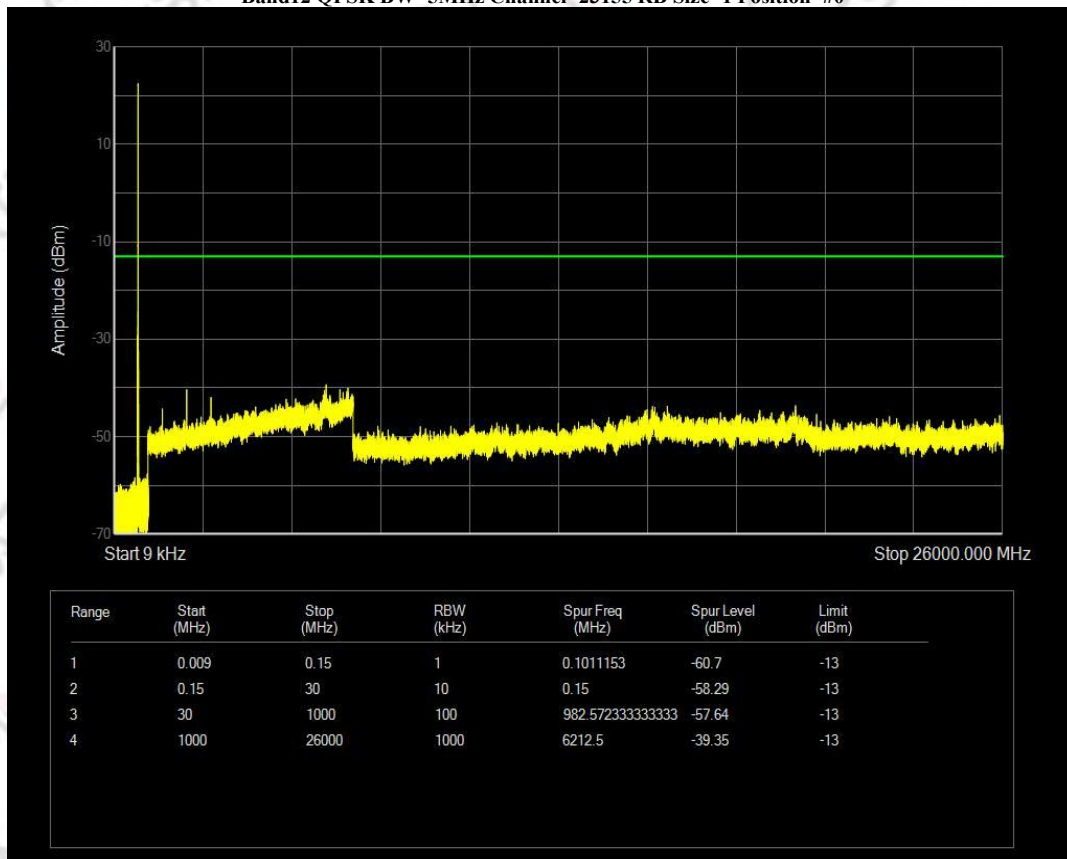
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0596237	-61.53	-13
2	0.15	30	10	0.15	-56.88	-13
3	30	1000	100	859.511666666667	-58.34	-13
4	1000	26000	1000	6881.66666666667	-40.78	-13

Band12 QPSK BW=5MHz Channel=23095 RB Size=1 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0617622	-61.54	-13
2	0.15	30	10	0.15	-57.62	-13
3	30	1000	100	923.208333333333	-58.02	-13
4	1000	26000	1000	6986.66666666667	-38.99	-13

Band12 QPSK BW=5MHz Channel=23155 RB Size=1 Position=#0



LTE Band 13

01 Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	ERP (dBm)	ERP Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Band13	5	23205	1	#0	QAM16	21.14	2.6	21.59	37	23.74	37	PASS
Band13	5	23230	1	#0	QAM16	20.65	2.6	21.10	37	23.25	37	PASS
Band13	5	23255	1	#0	QAM16	21.28	2.6	21.73	37	23.88	37	PASS
Band13	5	23205	1	#0	QPSK	21.88	2.6	22.33	37	24.48	37	PASS
Band13	5	23230	1	#0	QPSK	21.58	2.6	22.03	37	24.18	37	PASS
Band13	5	23255	1	#0	QPSK	21.72	2.6	22.17	37	24.32	37	PASS
Band13	10	23230	1	#0	QPSK	21.41	2.6	21.86	37	24.01	37	PASS

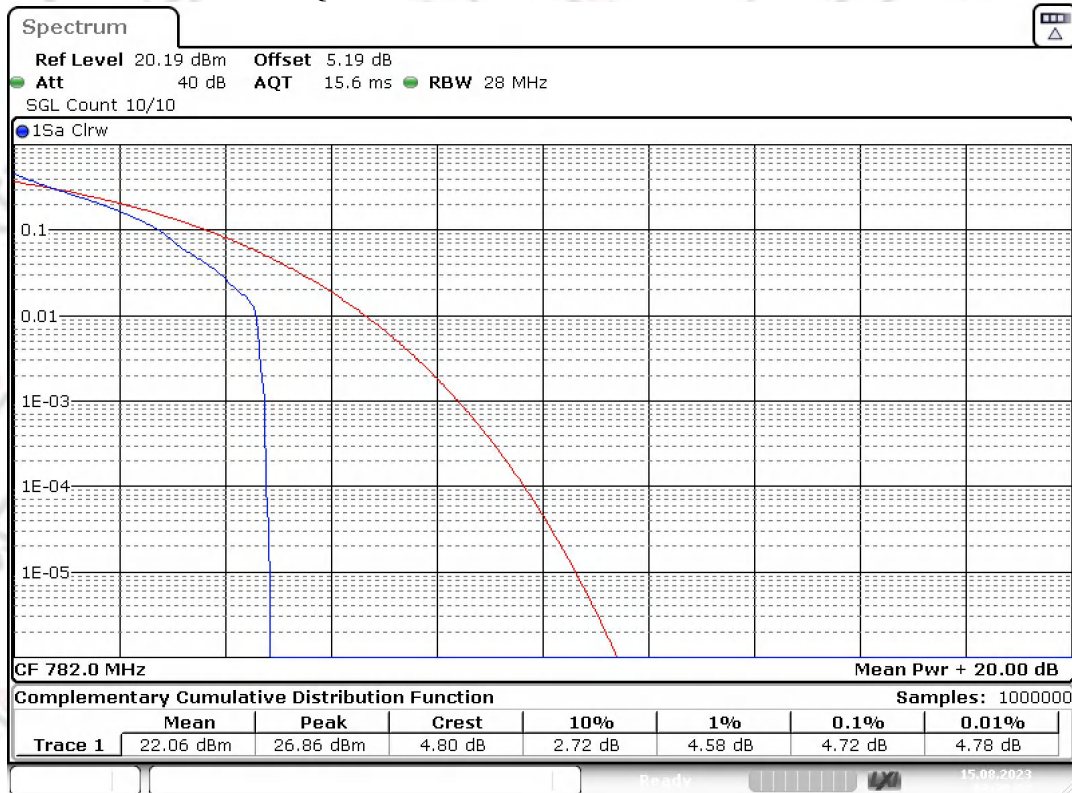
02 Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
Band13	5	23205	25	#0	QAM16	-1.03	-0.001	-2.5	2.5	PASS
Band13	5	23230	25	#0	QAM16	-0.72	-0.001	-2.5	2.5	PASS
Band13	5	23255	25	#0	QAM16	1.58	0.002	-2.5	2.5	PASS
Band13	5	23205	25	#0	QPSK	-1.70	-0.002	-2.5	2.5	PASS
Band13	5	23230	25	#0	QPSK	-0.13	0.000	-2.5	2.5	PASS
Band13	5	23255	25	#0	QPSK	1.86	0.002	-2.5	2.5	PASS
Band13	10	23230	50	#0	QPSK	-0.56	-0.001	-2.5	2.5	PASS

03 Peak-to-Average Ratio

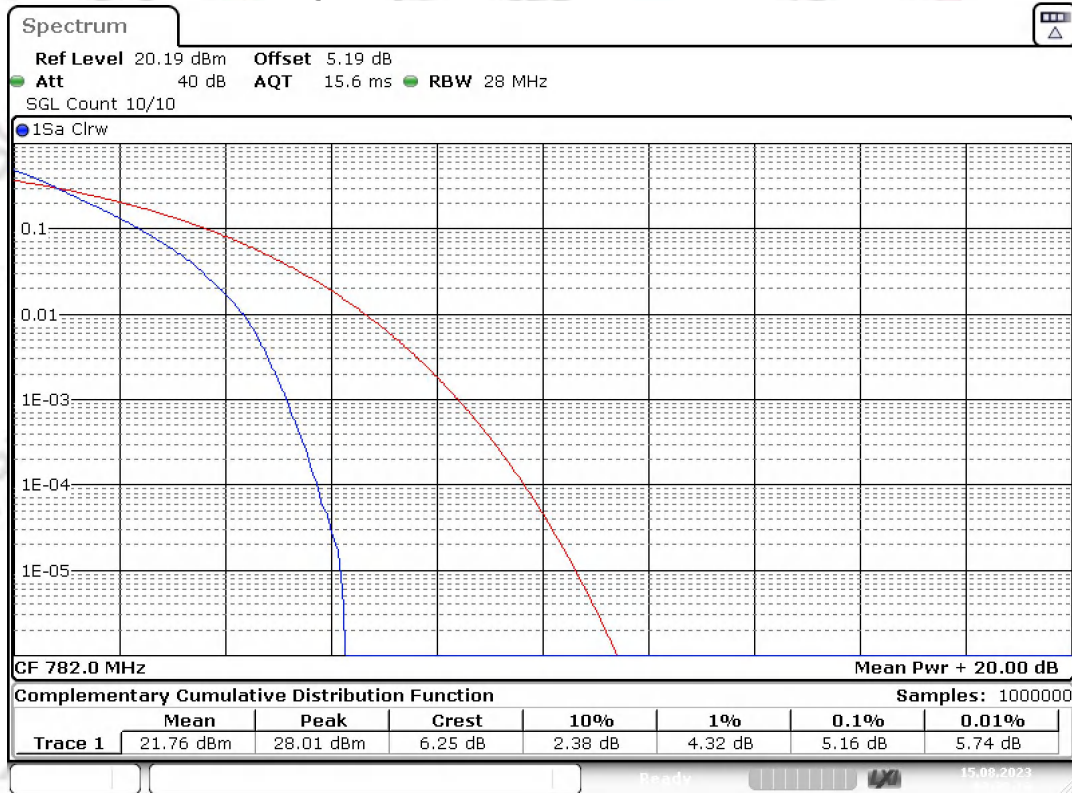
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band13	10	23230	1	#0	QPSK	4.72	13	PASS
Band13	10	23230	50	#0	QPSK	5.16	13	PASS

Band13 QPSK BW=10MHz Channel=23230 RB Size=1 Position=#0



Date: 15.AUG.2023 03:38:07

Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0

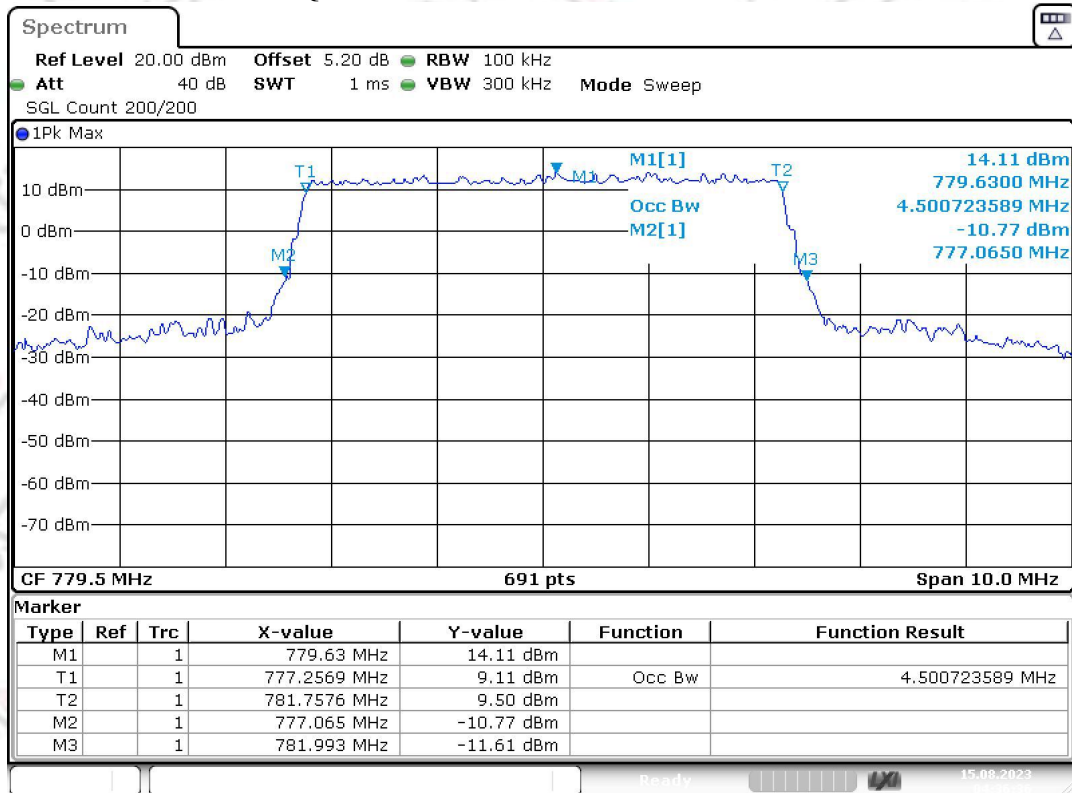


Date: 15.AUG.2023 03:38:10

04 Occupied bandwidth

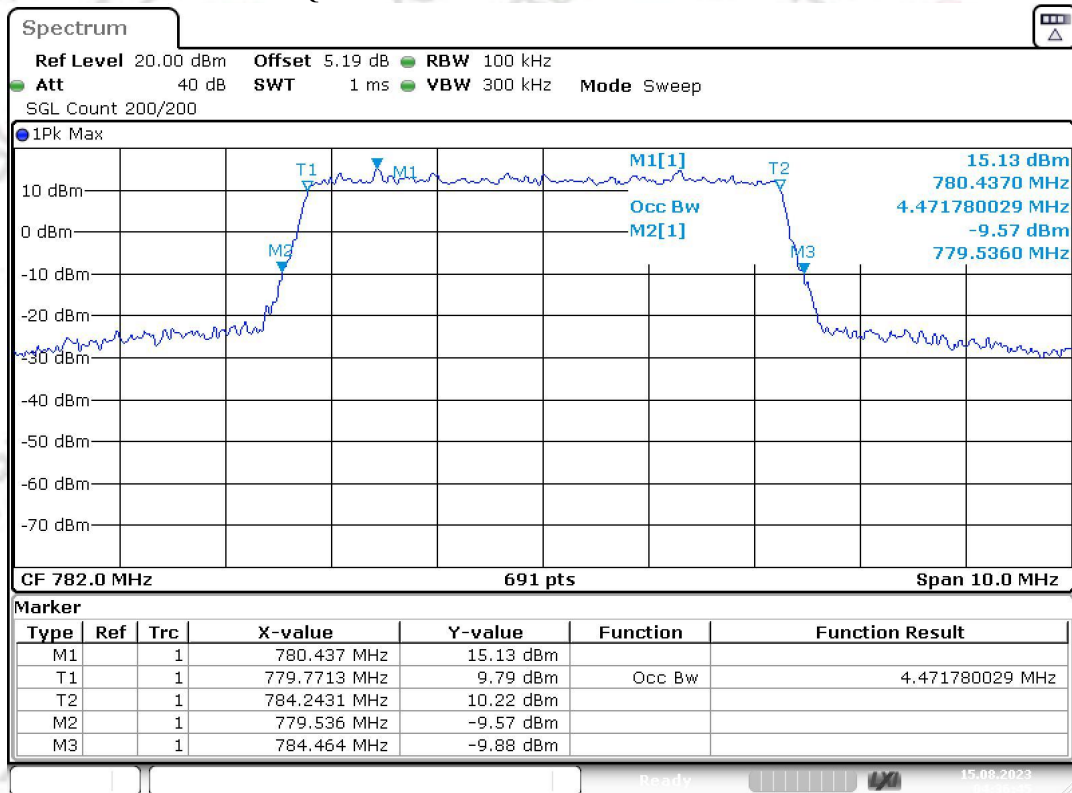
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band13	5	23205	25	#0	QAM16	4.501	4.928	PASS
Band13	5	23230	25	#0	QAM16	4.472	4.928	PASS
Band13	5	23255	25	#0	QAM16	4.515	4.986	PASS
Band13	10	23230	50	#0	QPSK	8.944	9.826	PASS
Band13	5	23205	25	#0	QPSK	4.515	4.870	PASS
Band13	5	23230	25	#0	QPSK	4.515	4.928	PASS
Band13	5	23255	25	#0	QPSK	4.515	4.971	PASS

Band13 QAM16 BW=5MHz Channel=23205 RB Size=25 Position=#0



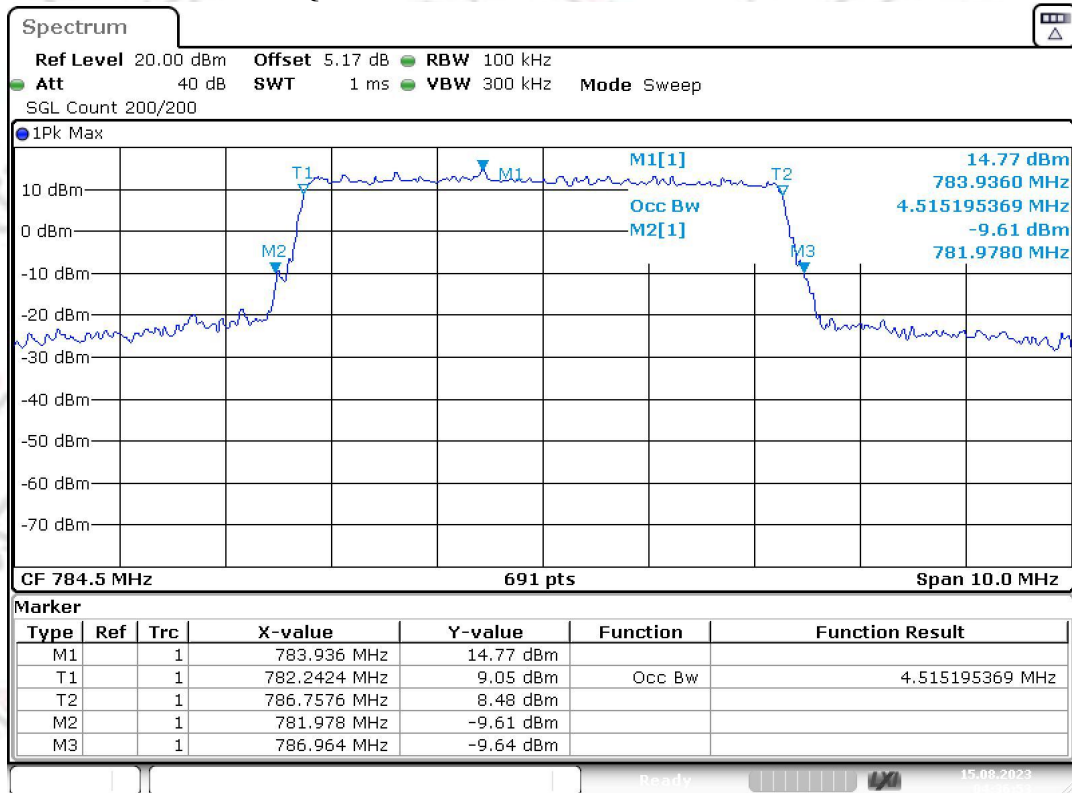
Date: 15.AUG.2023 04:36:36

Band13 QAM16 BW=5MHz Channel=23230 RB Size=25 Position=#0



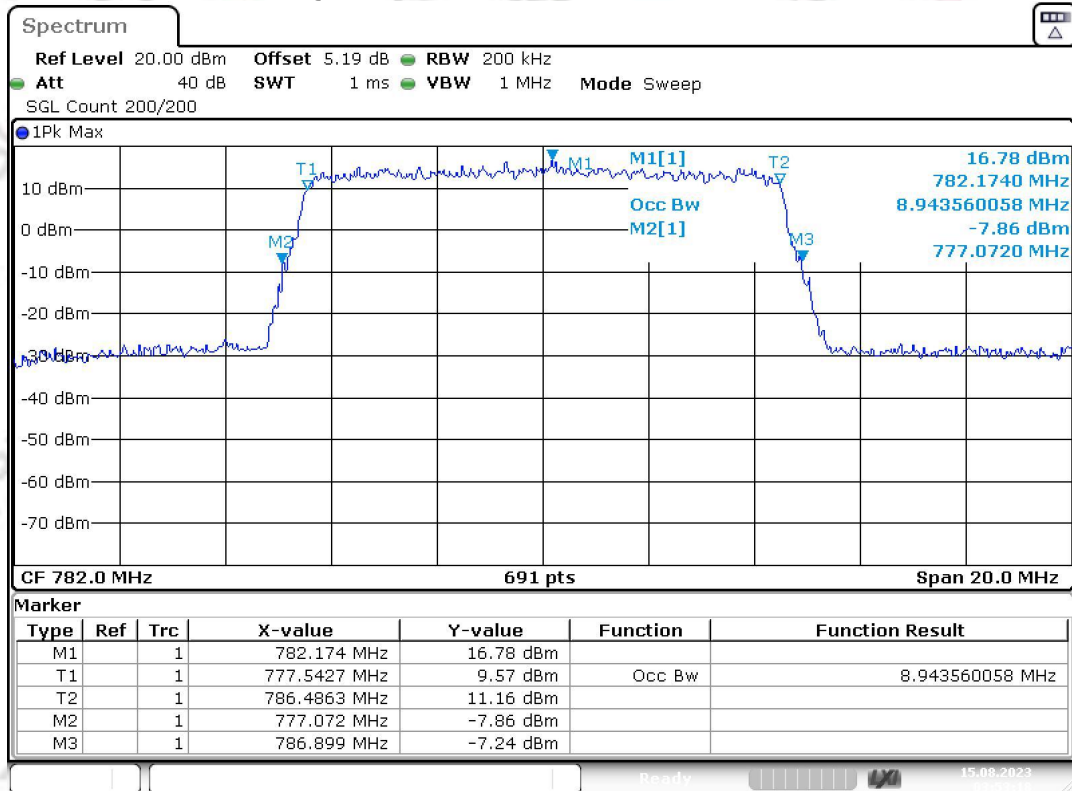
Date: 15.AUG.2023 04:36:45

Band13 QAM16 BW=5MHz Channel=23255 RB Size=25 Position=#0



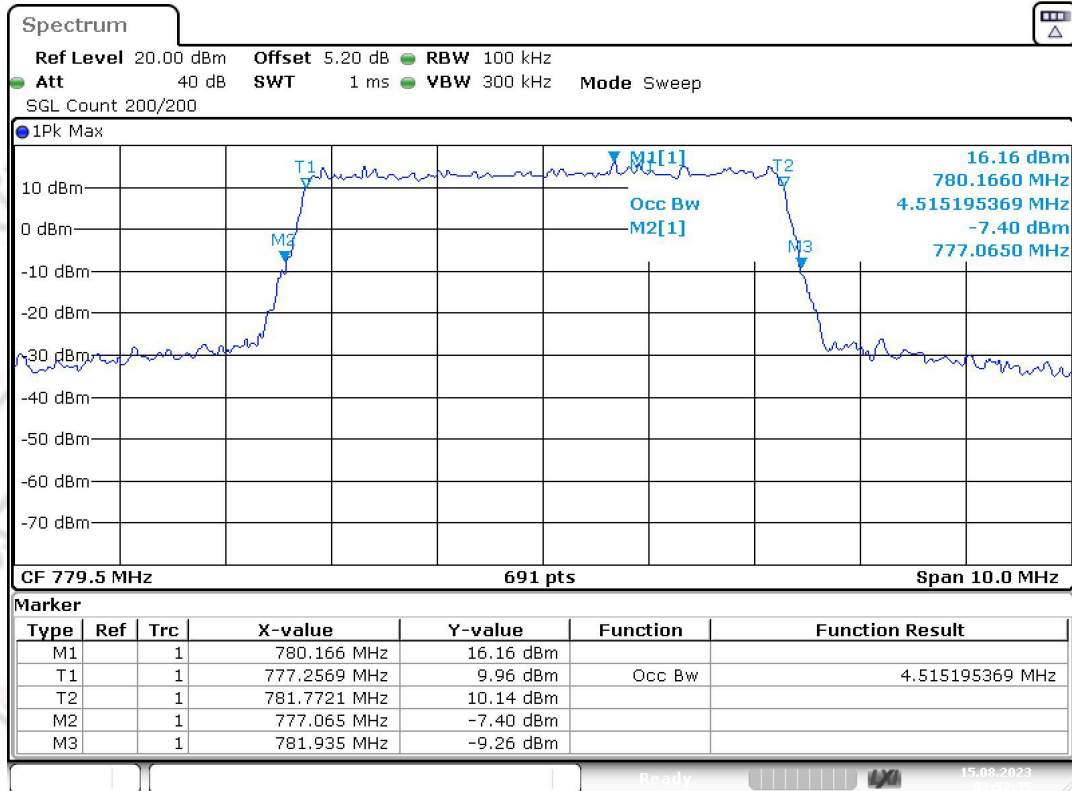
Date: 15.AUG.2023 04:36:53

Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0



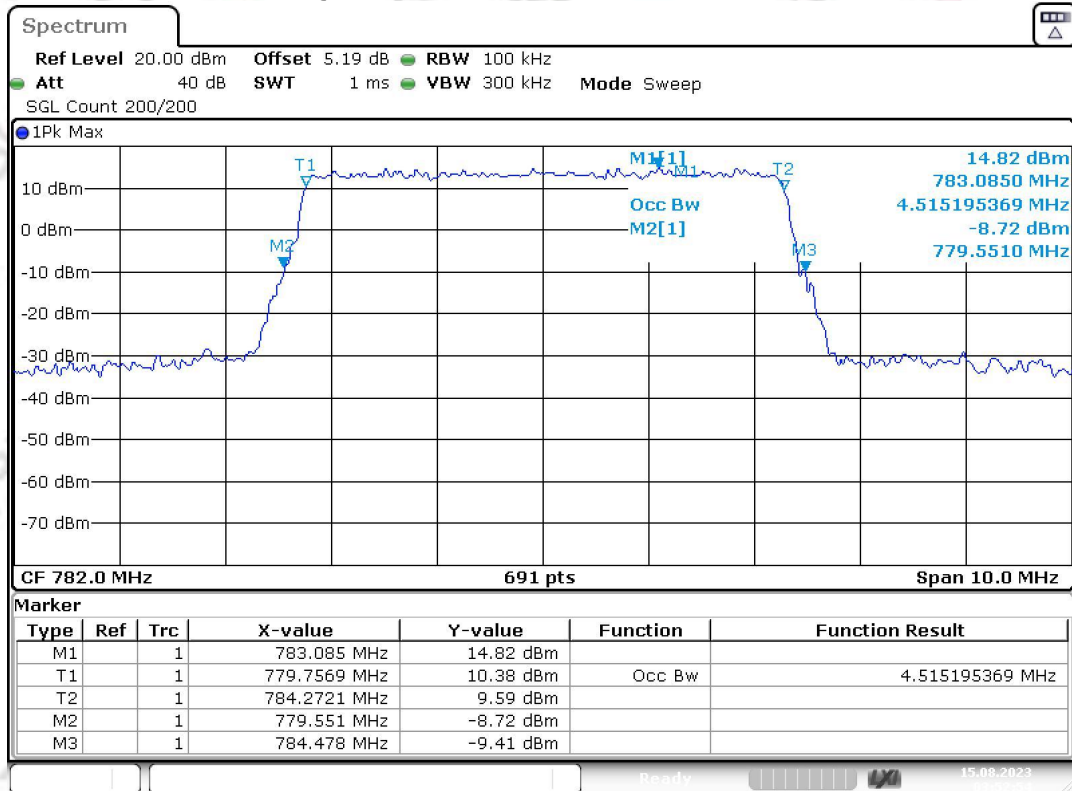
Date: 15.AUG.2023 03:53:17

Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0



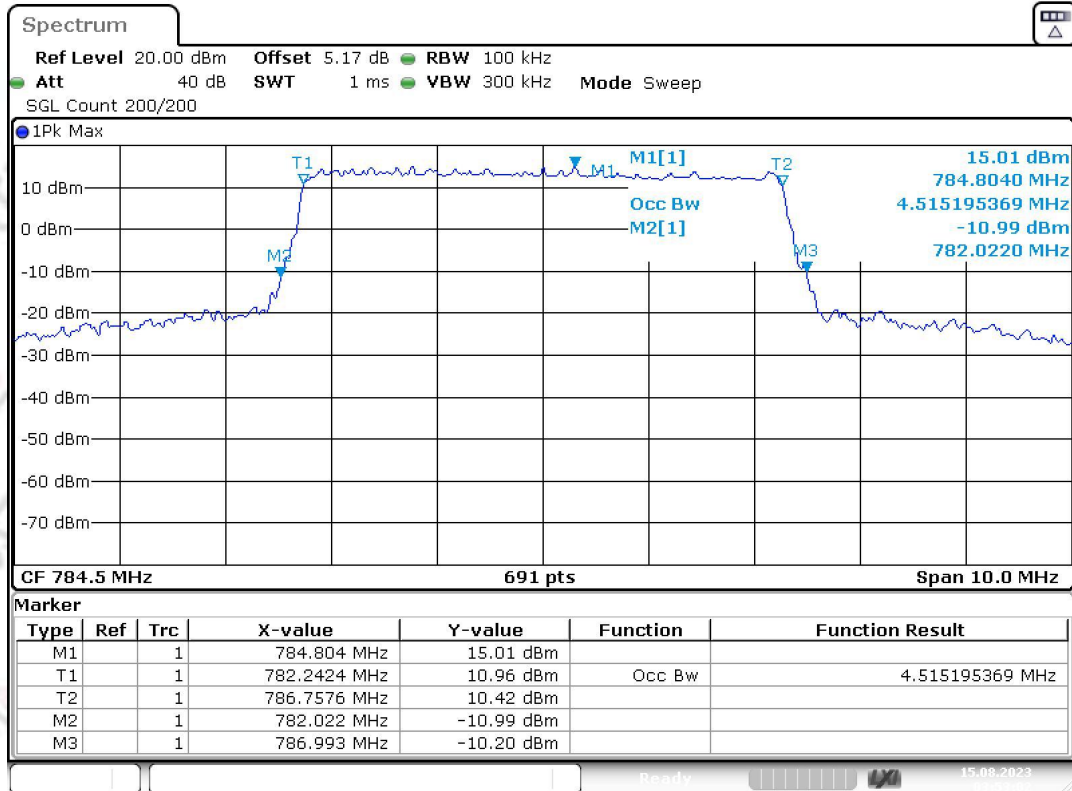
Date: 15.AUG.2023 03:52:44

Band13 QPSK BW=5MHz Channel=23230 RB Size=25 Position=#0



Date: 15.AUG.2023 03:52:54

Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0

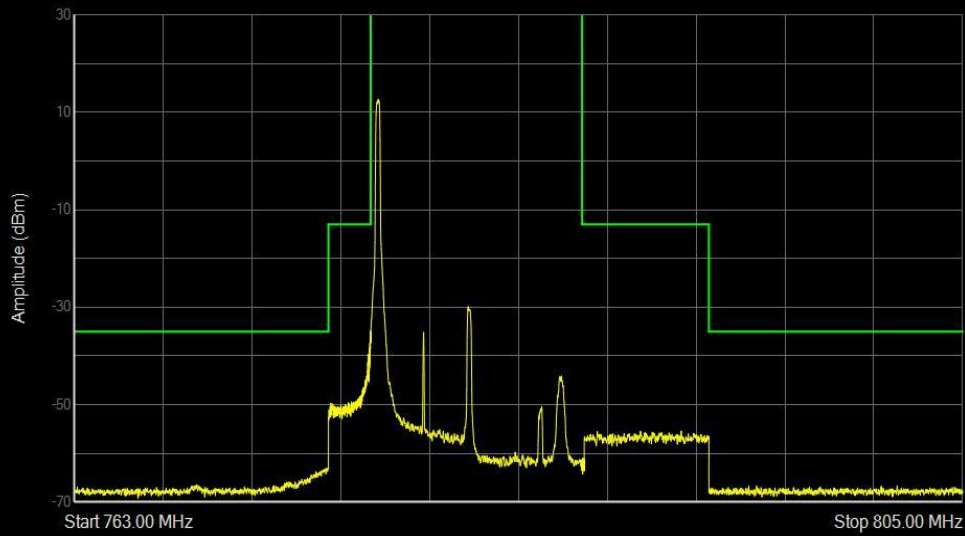


Date: 15.AUG.2023 03:53:02

05 Band edge

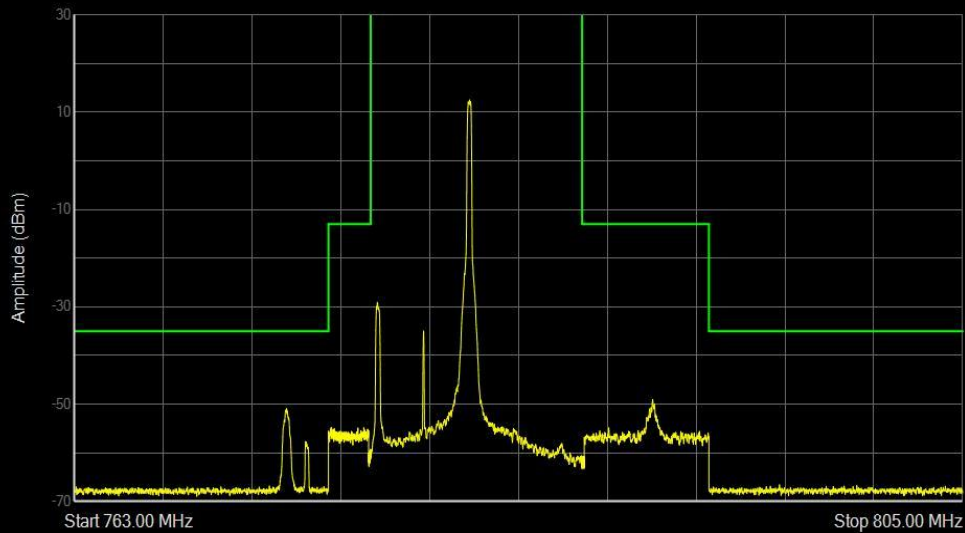
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band13	5	23205	1	#0	QAM16	777.00	-34.91	-13	PASS
Band13	5	23205	1	#Max	QAM16	773.02	-50.90	-35	PASS
Band13	5	23205	25	#0	QAM16	775.00	-57.04	-35	PASS
Band13	5	23255	1	#0	QAM16	773.75	-60.01	-35	PASS
Band13	5	23255	1	#Max	QAM16	787.00	-35.45	-13	PASS
Band13	5	23255	25	#0	QAM16	787.12	-39.27	-13	PASS
Band13	10	23230	1	#0	QPSK	795.09	-61.83	-35	PASS
Band13	10	23230	1	#Max	QPSK	795.22	-64.63	-35	PASS
Band13	10	23230	50	#0	QPSK	774.80	-52.89	-35	PASS
Band13	5	23205	1	#0	QPSK	776.99	-32.89	-13	PASS
Band13	5	23205	1	#Max	QPSK	773.07	-50.04	-35	PASS
Band13	5	23205	25	#0	QPSK	775.00	-56.72	-35	PASS
Band13	5	23255	1	#0	QPSK	773.81	-59.27	-35	PASS
Band13	5	23255	1	#Max	QPSK	787.01	-33.02	-13	PASS
Band13	5	23255	25	#0	QPSK	787.11	-37.19	-13	PASS

Band13 QAM16 BW=5MHz Channel=23205 RB Size=1 Position=#0



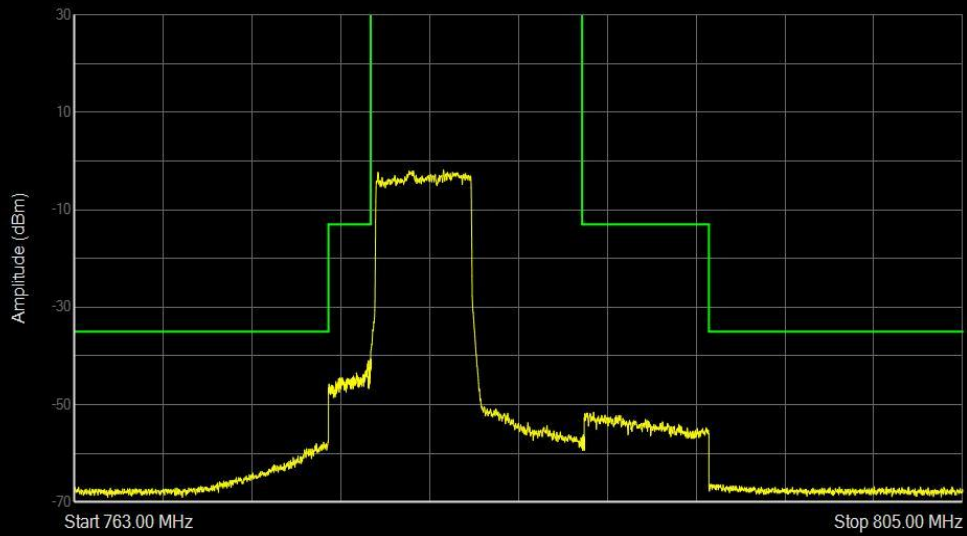
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	774.988	-62.98	-35
2	775	776.9	100	776.881	-39.7	-13
3	776.9	777	30	776.9999	-34.91	-13
4	787	787.1	30	787.0303	-61.04	-13
5	787.1	793	100	791.6843	-55.4	-13
6	793	805	6.25	801.904	-66.66	-35

Band13 QAM16 BW=5MHz Channel=23205 RB Size=1 Position=#Max



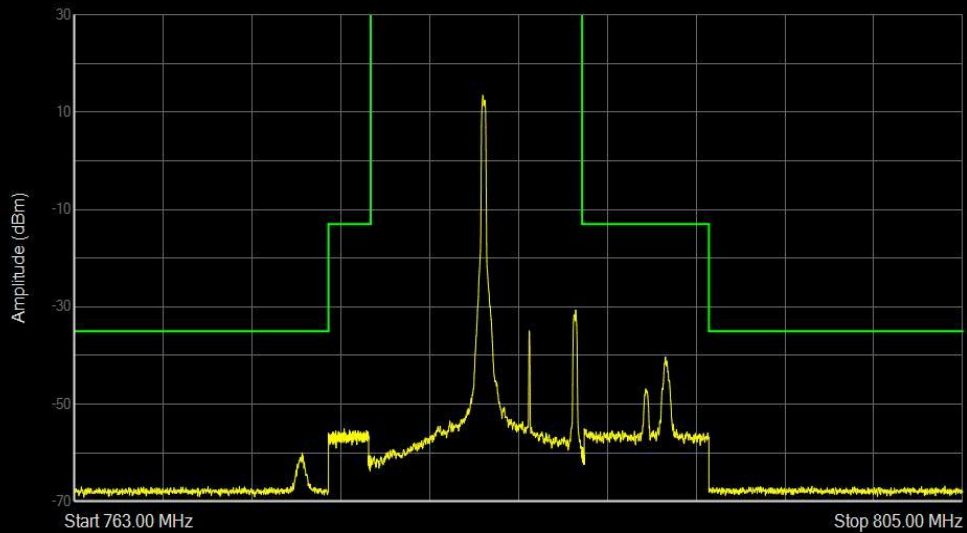
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	773.02	-50.9	-35
2	775	776.9	100	775.1273	-54.82	-13
3	776.9	777	30	776.9979	-59.28	-13
4	787	787.1	30	787.0577	-60.74	-13
5	787.1	793	100	790.3391	-49.05	-13
6	793	805	6.25	796.336	-66.57	-35

Band13 QAM16 BW=5MHz Channel=23205 RB Size=25 Position=#0



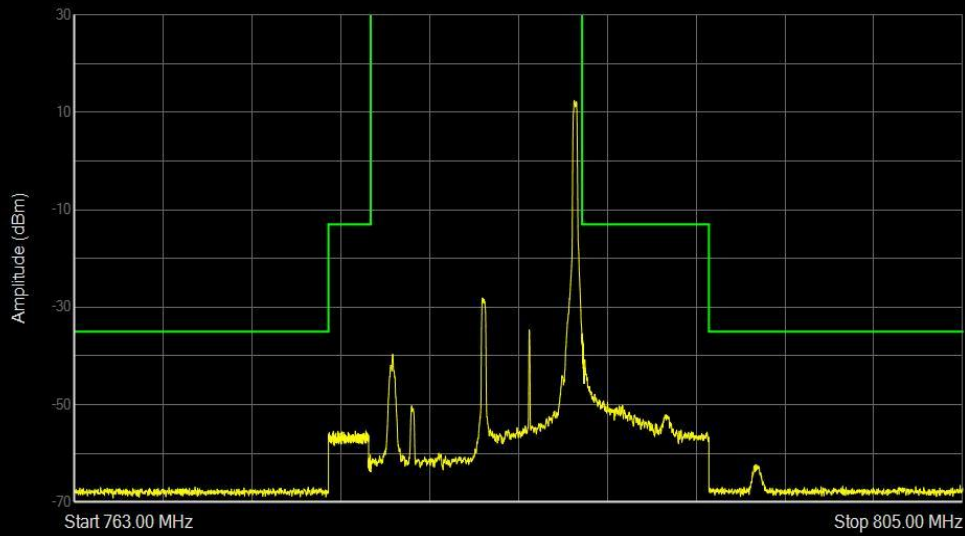
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	775	-57.04	-35
2	775	776.9	100	776.9	-40.97	-13
3	776.9	777	30	776.9985	-40.7	-13
4	787	787.1	30	787.0579	-56.19	-13
5	787.1	793	100	787.5425	-51.56	-13
6	793	805	6.25	793.084	-66.36	-35

Band13 QAM16 BW=5MHz Channel=23255 RB Size=1 Position=#0



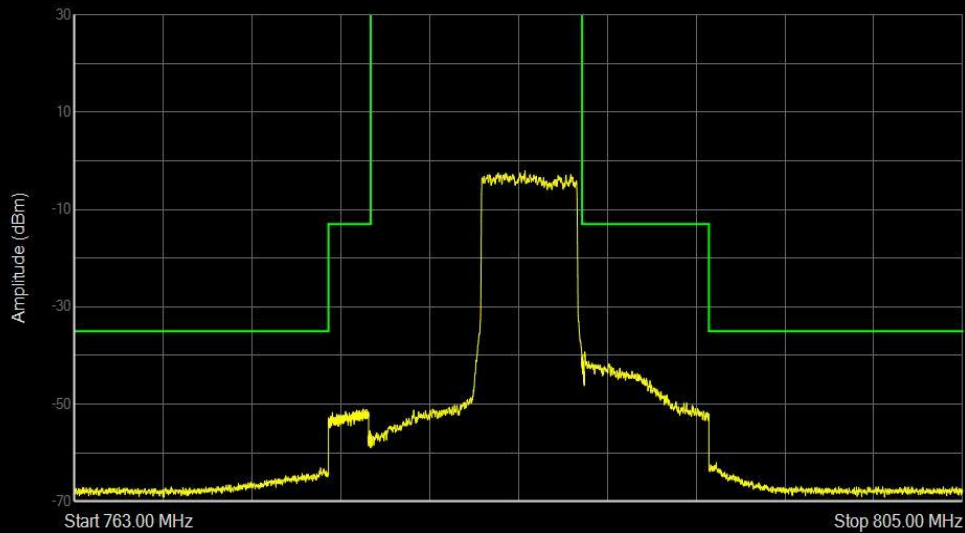
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	773.752	-60.01	-35
2	775	776.9	100	775.7429	-55.07	-13
3	776.9	777	30	776.9057	-60.61	-13
4	787	787.1	30	787.0347	-58.97	-13
5	787.1	793	100	790.935	-40.32	-13
6	793	805	6.25	804.16	-66.86	-35

Band13 QAM16 BW=5MHz Channel=23255 RB Size=1 Position=#Max



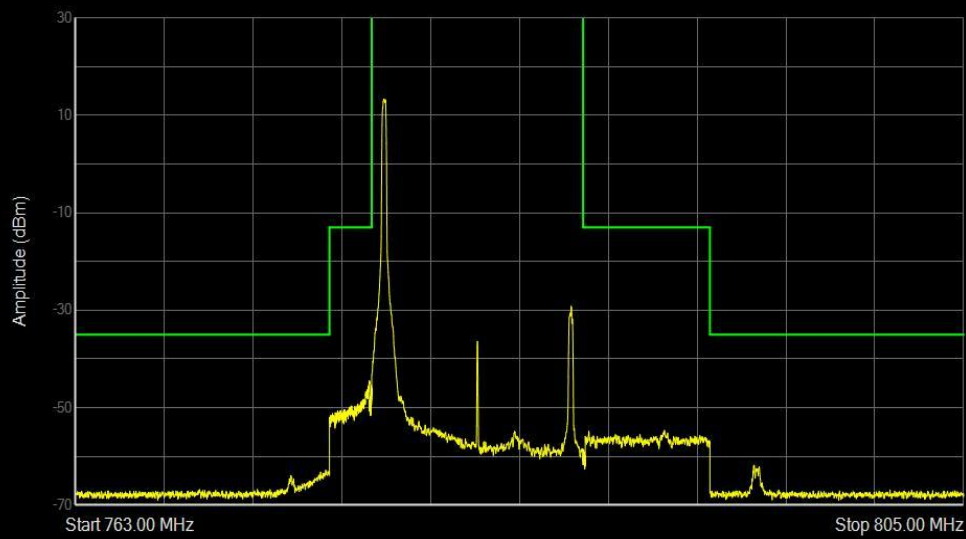
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	768.688	-66.93	-35
2	775	776.9	100	776.7727	-55.37	-13
3	776.9	777	30	776.9783	-60.36	-13
4	787	787.1	30	787.0028	-35.45	-13
5	787.1	793	100	787.1236	-40.78	-13
6	793	805	6.25	795.244	-62.32	-35

Band13 QAM16 BW=5MHz Channel=23255 RB Size=25 Position=#0



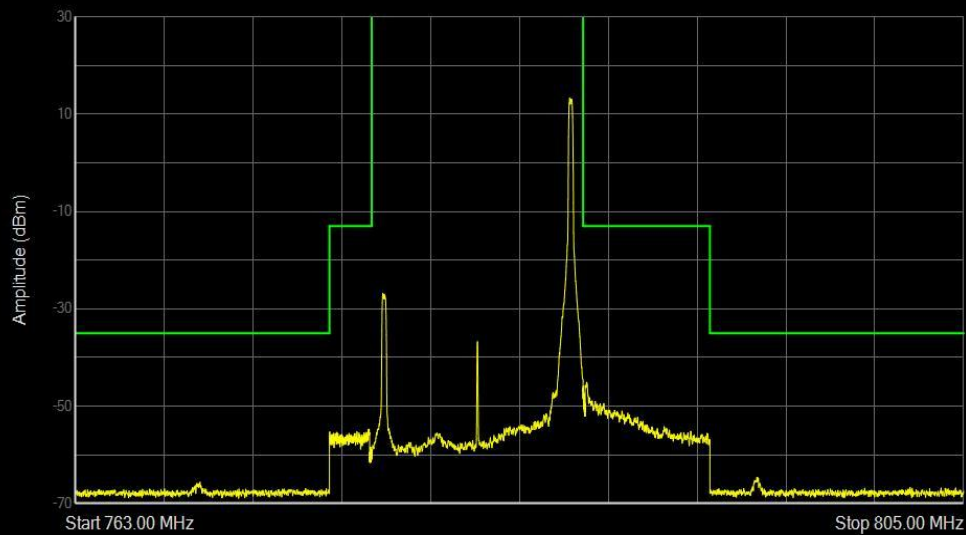
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	774.628	-63.1	-35
2	775	776.9	100	776.6454	-51.01	-13
3	776.9	777	30	776.9702	-55.53	-13
4	787	787.1	30	787.0001	-40.03	-13
5	787.1	793	100	787.1236	-39.27	-13
6	793	805	6.25	793.348	-62.02	-35

Band13 QPSK BW=10MHz Channel=23230 RB Size=1 Position=#0



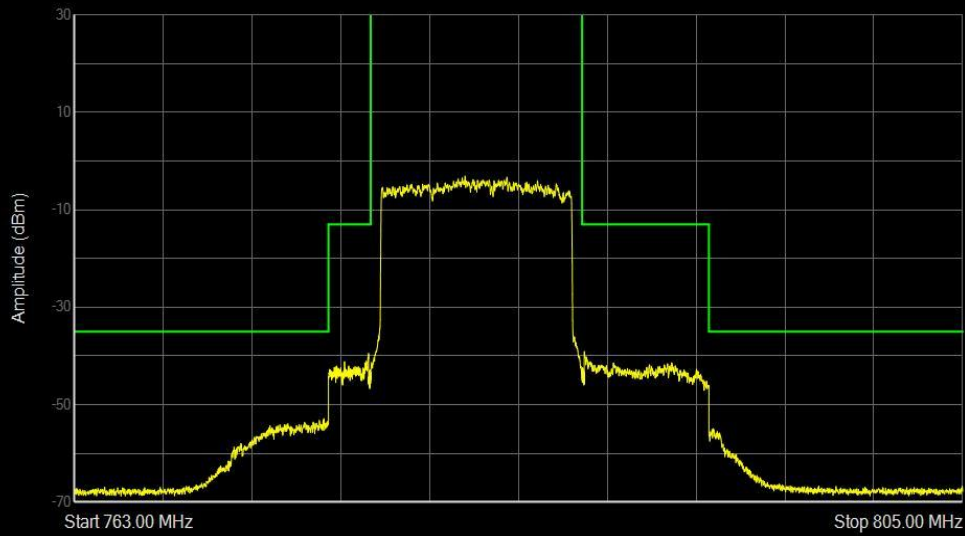
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	774.82	-62.82	-35
2	775	776.9	100	776.8905	-44.49	-13
3	776.9	777	30	776.9788	-45.4	-13
4	787	787.1	30	787.0095	-58.65	-13
5	787.1	793	100	790.8465	-54.67	-13
6	793	805	6.25	795.088	-61.83	-35

Band13 QPSK BW=10MHz Channel=23230 RB Size=1 Position=#Max



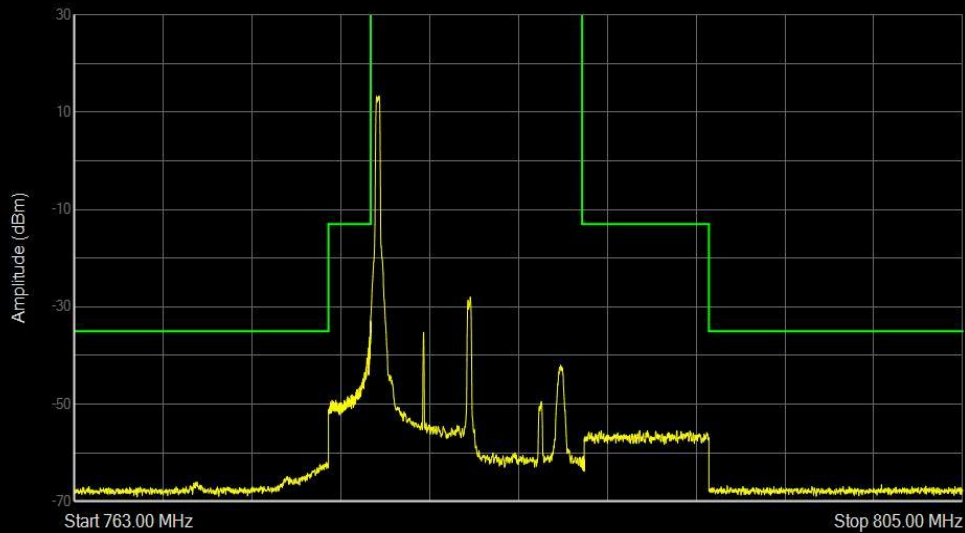
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	768.88	-65.64	-35
2	775	776.9	100	776.8772	-54.73	-13
3	776.9	777	30	776.9461	-58.41	-13
4	787	787.1	30	787.0046	-45.91	-13
5	787.1	793	100	787.1708	-45.09	-13
6	793	805	6.25	795.22	-64.63	-35

Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0



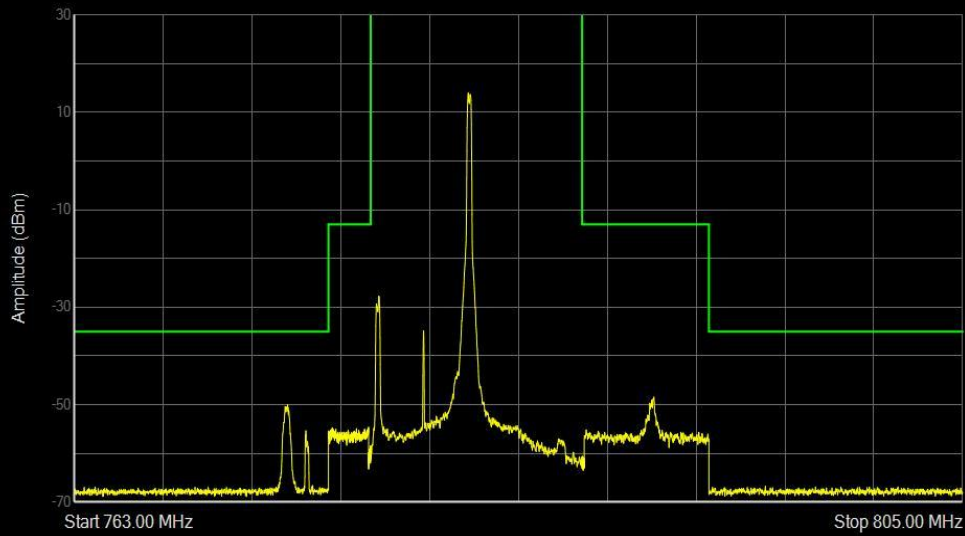
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	774.796	-52.89	-35
2	775	776.9	100	776.9	-39.48	-13
3	776.9	777	30	776.9719	-42.86	-13
4	787	787.1	30	787.0237	-42.44	-13
5	787.1	793	100	787.1059	-39.09	-13
6	793	805	6.25	793.204	-54.94	-35

Band13 QPSK BW=5MHz Channel=23205 RB Size=1 Position=#0



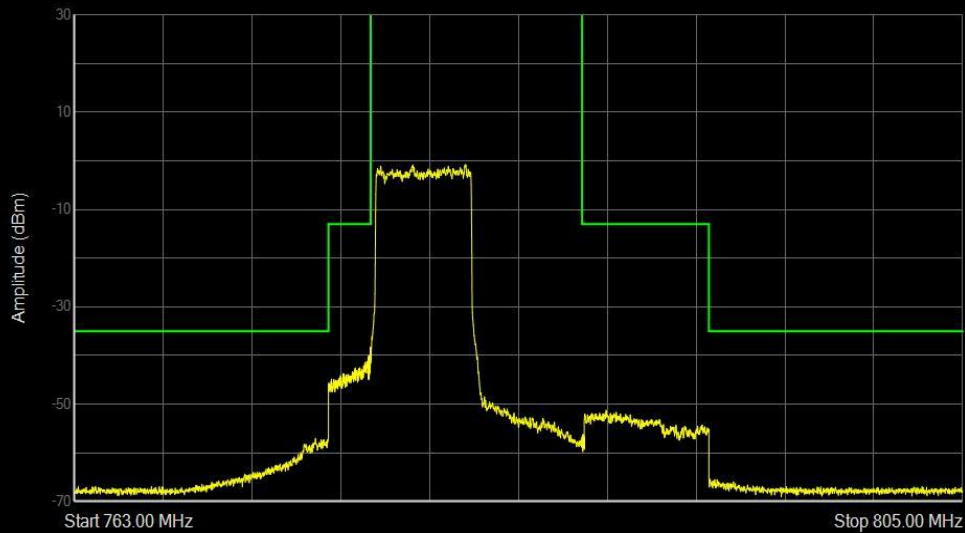
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	774.904	-61.97	-35
2	775	776.9	100	776.8981	-38.47	-13
3	776.9	777	30	776.9911	-32.89	-13
4	787	787.1	30	787.0608	-60.74	-13
5	787.1	793	100	789.7196	-55.43	-13
6	793	805	6.25	801.16	-66.57	-35

Band13 QPSK BW=5MHz Channel=23205 RB Size=1 Position=#Max



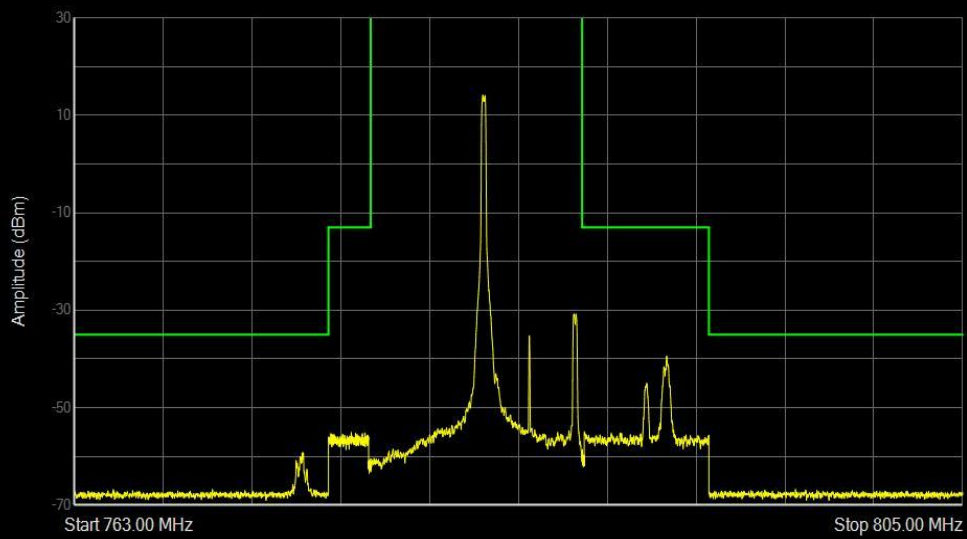
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	773.068	-50.04	-35
2	775	776.9	100	776.9	-54.63	-13
3	776.9	777	30	776.9983	-58.48	-13
4	787	787.1	30	787.0036	-60.64	-13
5	787.1	793	100	790.3922	-48.47	-13
6	793	805	6.25	795.664	-66.77	-35

Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0



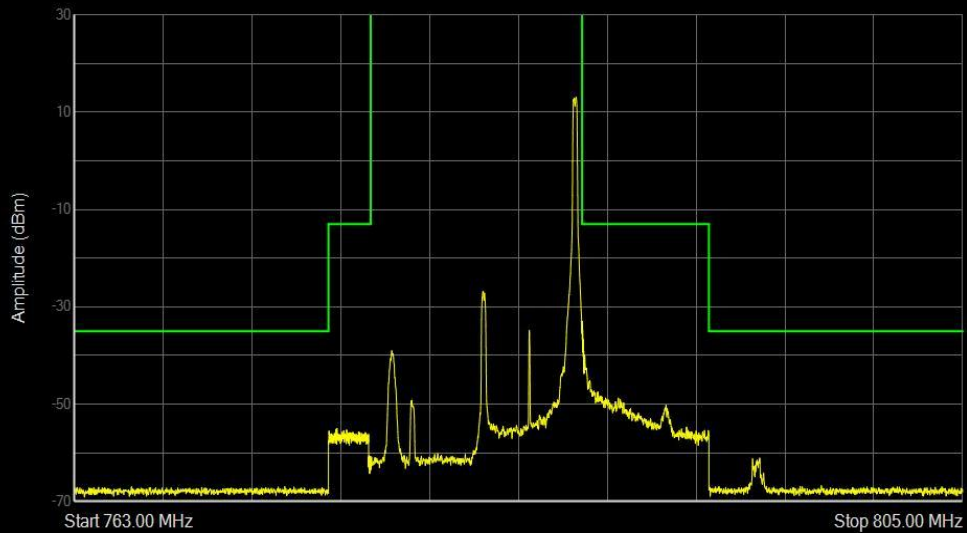
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	775	-56.72	-35
2	775	776.9	100	776.8962	-40.15	-13
3	776.9	777	30	776.9949	-38.32	-13
4	787	787.1	30	787.0439	-56.25	-13
5	787.1	793	100	788.1325	-51.26	-13
6	793	805	6.25	793.06	-65.45	-35

Band13 QPSK BW=5MHz Channel=23255 RB Size=1 Position=#0



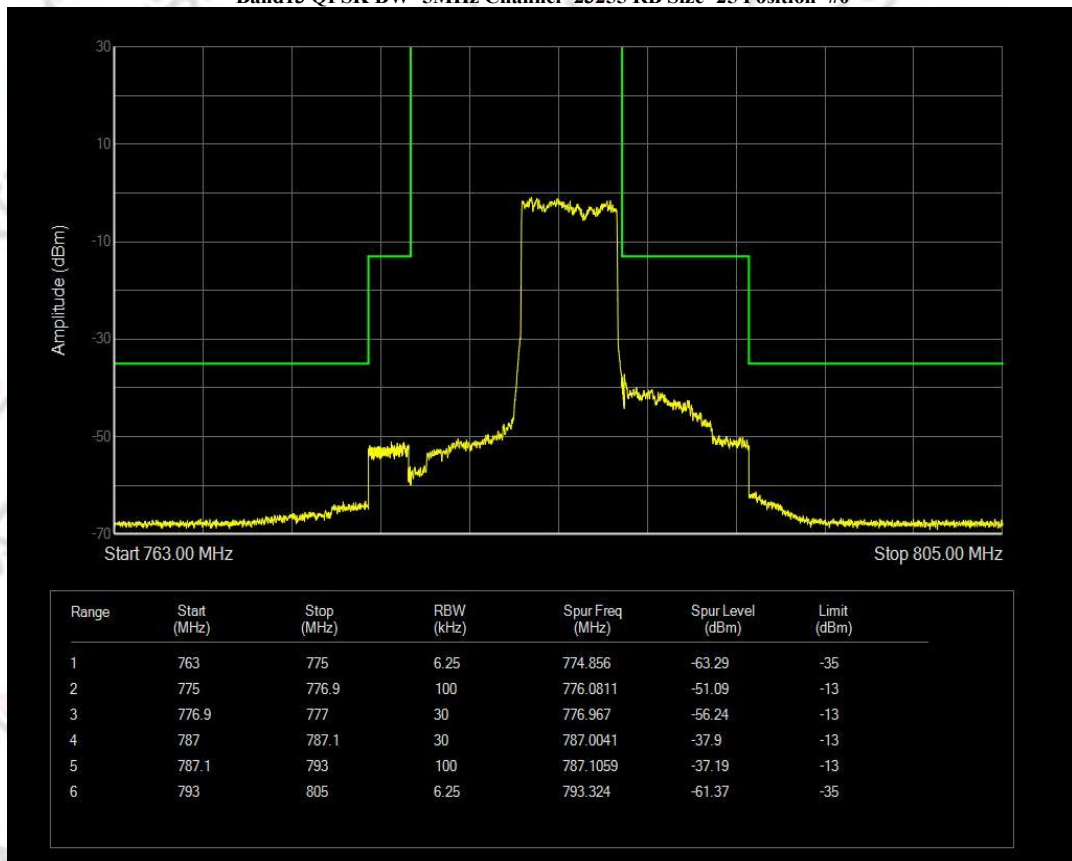
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	773.812	-59.27	-35
2	775	776.9	100	776.0792	-55.08	-13
3	776.9	777	30	776.9333	-60.81	-13
4	787	787.1	30	787.0157	-58.61	-13
5	787.1	793	100	790.9999	-39.43	-13
6	793	805	6.25	797.092	-66.8	-35

Band13 QPSK BW=5MHz Channel=23255 RB Size=1 Position=#Max



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.25	772.936	-66.94	-35
2	775	776.9	100	775.4066	-55.01	-13
3	776.9	777	30	776.9205	-60.64	-13
4	787	787.1	30	787.0063	-33.02	-13
5	787.1	793	100	787.1177	-39.97	-13
6	793	805	6.25	795.4	-61.07	-35

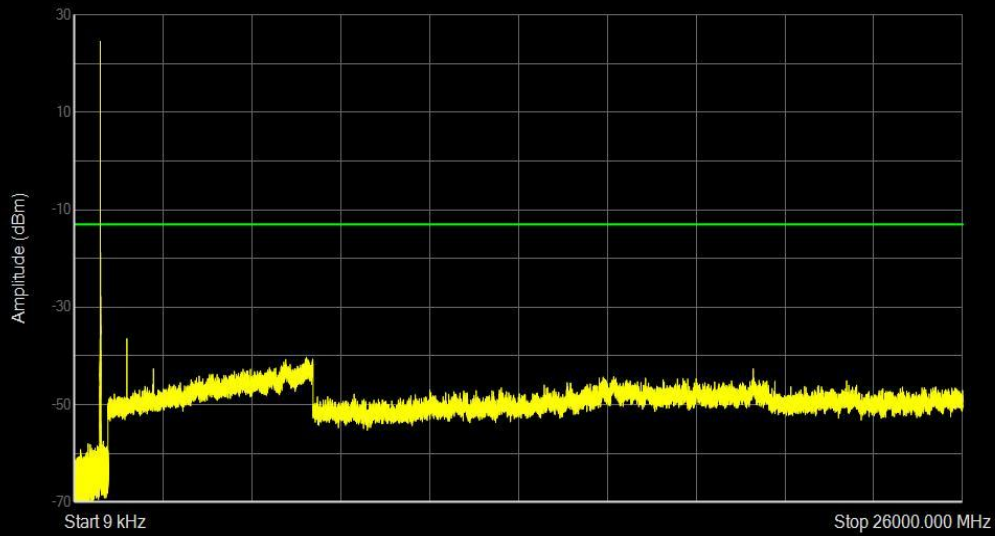
Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0



06 Out-of-band emissions

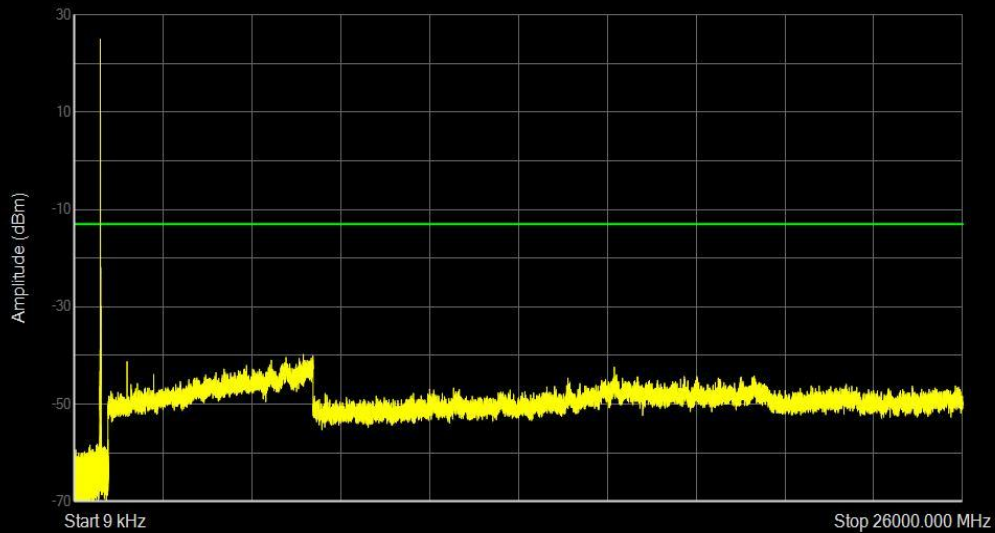
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band13	5	23205	1	#0	QAM16	1553.75	-36.47	-13	PASS
Band13	5	23230	1	#0	QAM16	6713.75	-39.78	-13	PASS
Band13	5	23255	1	#0	QAM16	1563.75	-37.61	-13	PASS
Band13	10	23230	1	#0	QPSK	1555.00	-38.66	-13	PASS
Band13	5	23205	1	#0	QPSK	1553.75	-38.94	-13	PASS
Band13	5	23230	1	#0	QPSK	1558.75	-36.94	-13	PASS
Band13	5	23255	1	#0	QPSK	1563.75	-36.90	-13	PASS

Band13 QAM16 BW=5MHz Channel=23205 RB Size=1 Position=#0



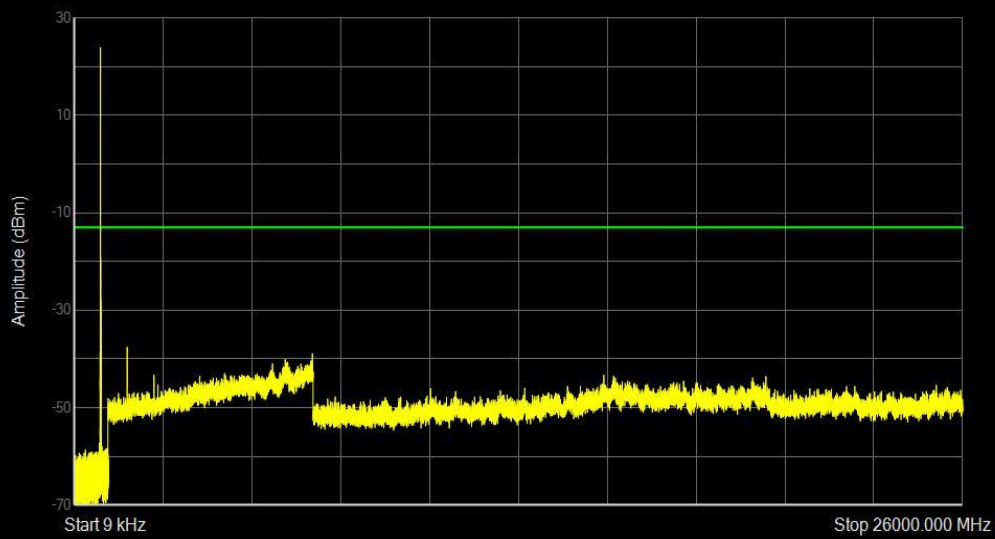
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.08946165	-60.71	-13
2	0.15	30	10	0.1514925	-53.93	-13
3	30	1000	100	863.0845	-57.51	-13
4	1000	26000	1000	1553.75	-36.47	-13

Band13 QAM16 BW=5MHz Channel=23230 RB Size=1 Position=#0



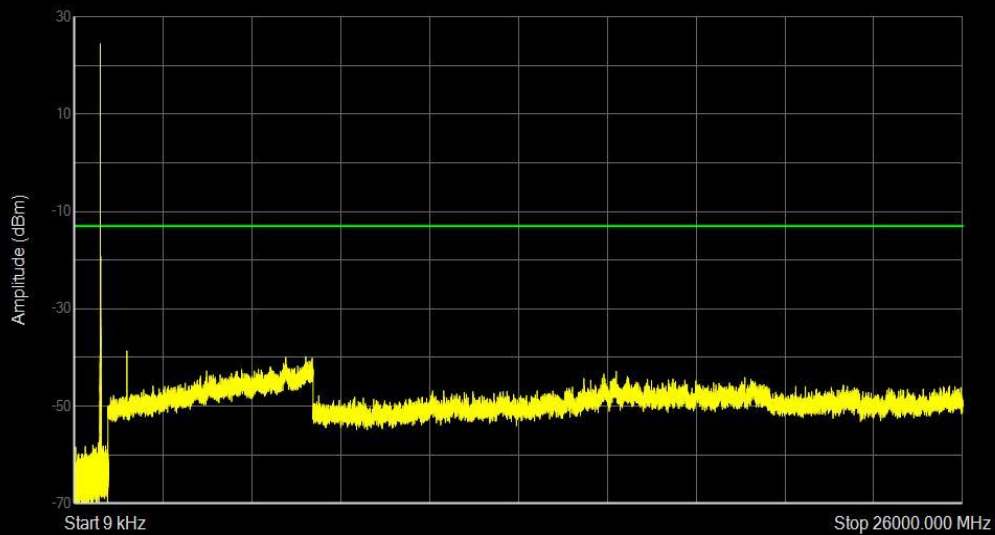
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.09098445	-58.29	-13
2	0.15	30	10	0.15	-58.62	-13
3	30	1000	100	999.8545	-57.31	-13
4	1000	26000	1000	6713.75	-39.78	-13

Band13 QAM16 BW=5MHz Channel=23255 RB Size=1 Position=#0



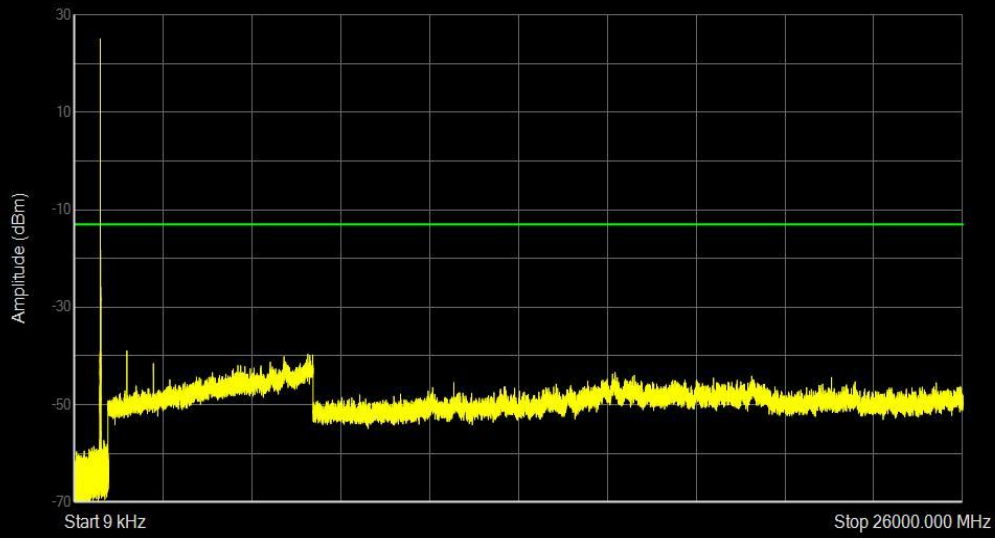
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.10098135	-59.69	-13
2	0.15	30	10	0.1604475	-59.2	-13
3	30	1000	100	749.4005	-57.29	-13
4	1000	26000	1000	1563.75	-37.61	-13

Band13 QPSK BW=10MHz Channel=23230 RB Size=1 Position=#0



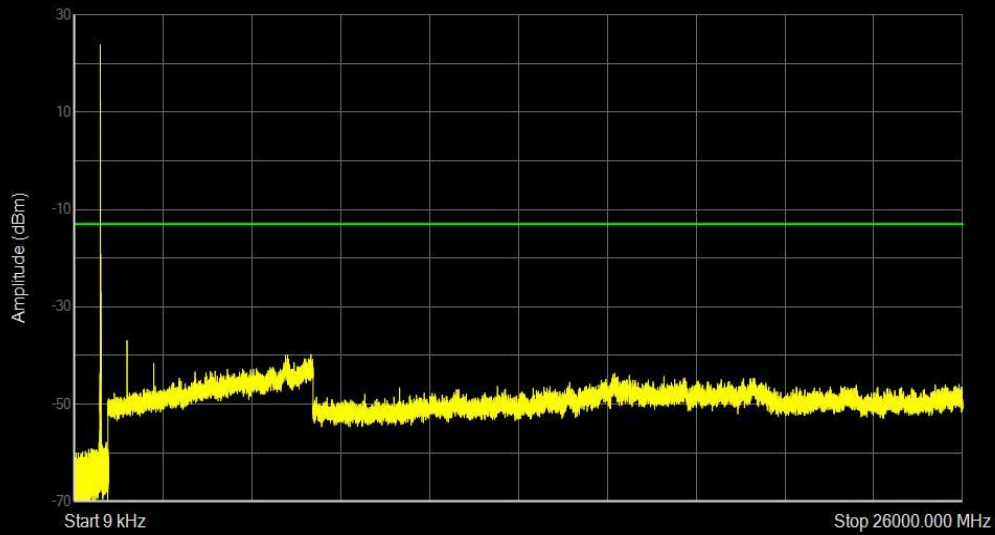
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.10198245	-60.03	-13
2	0.15	30	10	0.164925	-58.17	-13
3	30	1000	100	993.598	-57.56	-13
4	1000	26000	1000	1555	-38.66	-13

Band13 QPSK BW=5MHz Channel=23205 RB Size=1 Position=#0



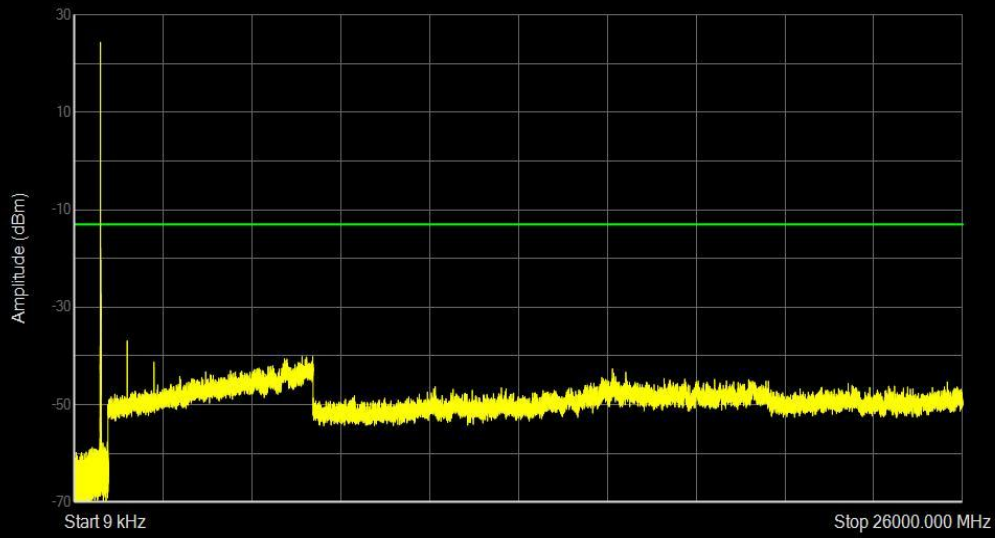
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.07705365	-59.27	-13
2	0.15	30	10	0.164925	-54.9	-13
3	30	1000	100	882.145	-57.38	-13
4	1000	26000	1000	1553.75	-38.94	-13

Band13 QPSK BW=5MHz Channel=23230 RB Size=1 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.10091085	-59.53	-13
2	0.15	30	10	0.15	-57.98	-13
3	30	1000	100	951.9365	-57.86	-13
4	1000	26000	1000	1558.75	-36.94	-13

Band13 QPSK BW=5MHz Channel=23255 RB Size=1 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.07739205	-57.98	-13
2	0.15	30	10	0.1514925	-56.41	-13
3	30	1000	100	984.3345	-57.64	-13
4	1000	26000	1000	1563.75	-36.9	-13

LTE Band 38

01 Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	ERP (dBm)	ERP Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Band38	5	37775	1	#0	QAM16	20.51	3	21.36	37	23.51	37	PASS
Band38	5	38000	1	#0	QAM16	20.76	3	21.61	37	23.76	37	PASS
Band38	5	38225	1	#0	QAM16	21.23	3	22.08	37	24.23	37	PASS
Band38	5	37775	1	#0	QPSK	21.69	3	22.54	37	24.69	37	PASS
Band38	5	38000	1	#0	QPSK	21.79	3	22.64	37	24.79	37	PASS
Band38	5	38225	1	#0	QPSK	22.62	3	23.47	37	25.62	37	PASS
Band38	10	37800	1	#0	QPSK	21.66	3	22.51	37	24.66	37	PASS
Band38	10	38000	1	#0	QPSK	21.84	3	22.69	37	24.84	37	PASS
Band38	10	38200	1	#0	QPSK	22.34	3	23.19	37	25.34	37	PASS
Band38	15	37825	1	#0	QPSK	21.72	3	22.57	37	24.72	37	PASS
Band38	15	38000	1	#0	QPSK	22.05	3	22.90	37	25.05	37	PASS
Band38	15	38175	1	#0	QPSK	22.25	3	23.10	37	25.25	37	PASS
Band38	20	37850	1	#0	QPSK	21.42	3	22.27	37	24.42	37	PASS
Band38	20	38000	1	#0	QPSK	21.79	3	22.64	37	24.79	37	PASS
Band38	20	38150	1	#0	QPSK	22.39	3	23.24	37	25.39	37	PASS

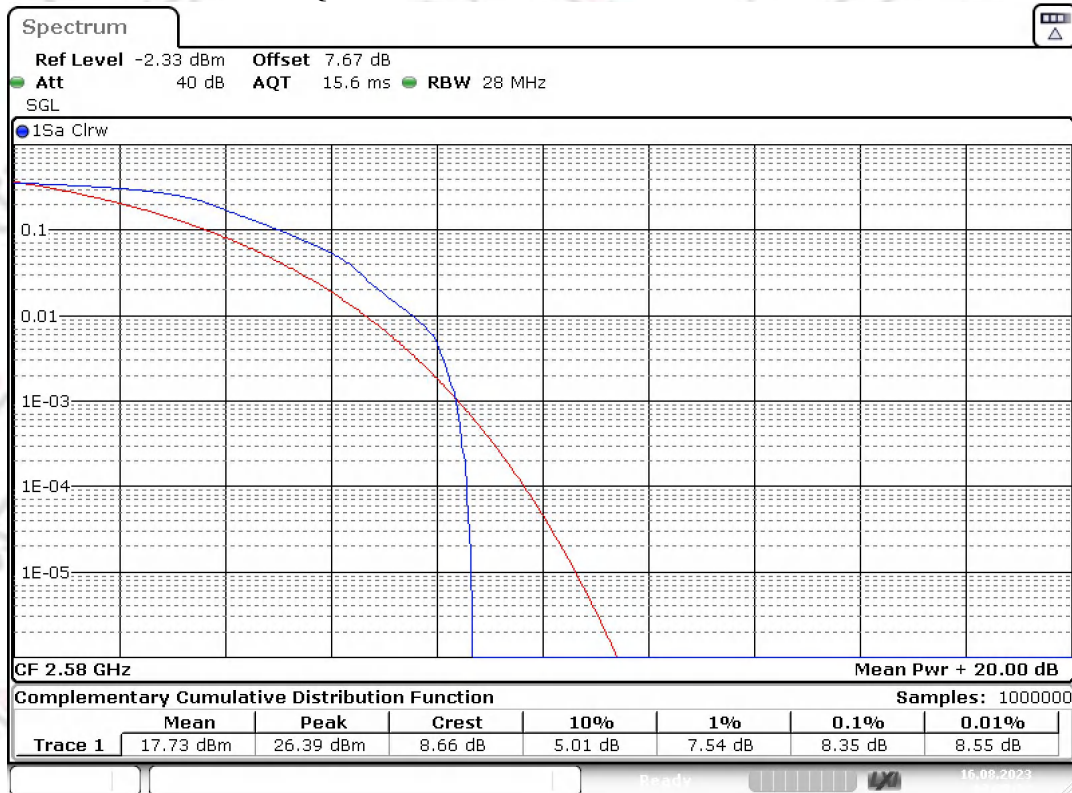
02 Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
Band38	5	37775	25	#0	QAM16	-3.37	-0.001	-2.5	2.5	PASS
Band38	5	38000	25	#0	QAM16	-1.34	-0.001	-2.5	2.5	PASS
Band38	5	38225	25	#0	QAM16	-1.44	-0.001	-2.5	2.5	PASS
Band38	5	37775	25	#0	QPSK	-5.58	-0.002	-2.5	2.5	PASS
Band38	5	38000	25	#0	QPSK	-0.73	0.000	-2.5	2.5	PASS
Band38	5	38225	25	#0	QPSK	-1.99	-0.001	-2.5	2.5	PASS
Band38	10	37800	50	#0	QPSK	-4.80	-0.002	-2.5	2.5	PASS
Band38	10	38000	50	#0	QPSK	-7.44	-0.003	-2.5	2.5	PASS
Band38	10	38200	50	#0	QPSK	-1.57	-0.001	-2.5	2.5	PASS
Band38	15	37825	75	#0	QPSK	-0.53	0.000	-2.5	2.5	PASS
Band38	15	38000	75	#0	QPSK	-4.13	-0.002	-2.5	2.5	PASS
Band38	15	38175	75	#0	QPSK	0.87	0.000	-2.5	2.5	PASS
Band38	20	37850	100	#0	QPSK	-2.44	-0.001	-2.5	2.5	PASS
Band38	20	38000	100	#0	QPSK	-1.23	0.000	-2.5	2.5	PASS
Band38	20	38150	100	#0	QPSK	-0.75	0.000	-2.5	2.5	PASS

03 Peak-to-Average Ratio

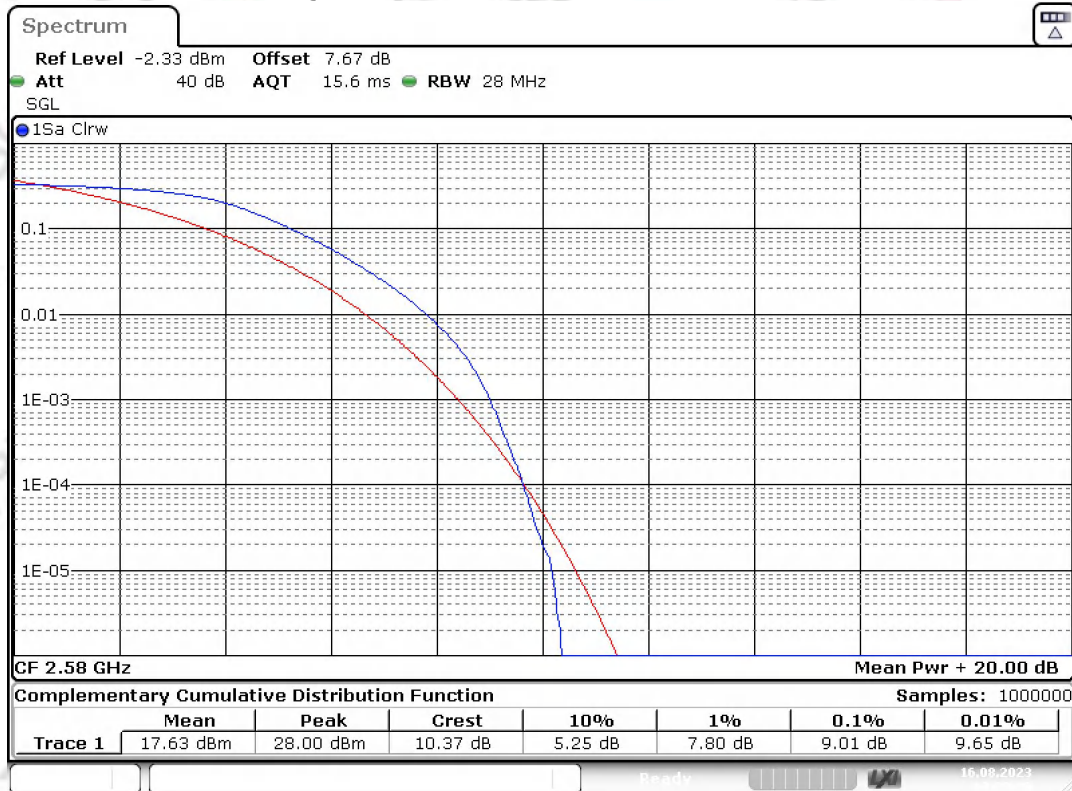
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band38	20	37850	1	#0	QPSK	8.35	13	PASS
Band38	20	37850	100	#0	QPSK	9.01	13	PASS
Band38	20	38000	1	#0	QPSK	8.99	13	PASS
Band38	20	38000	100	#0	QPSK	9.04	13	PASS
Band38	20	38150	1	#0	QPSK	8.61	13	PASS
Band38	20	38150	100	#0	QPSK	9.01	13	PASS

Band38 QPSK BW=20MHz Channel=37850 RB Size=1 Position=#0



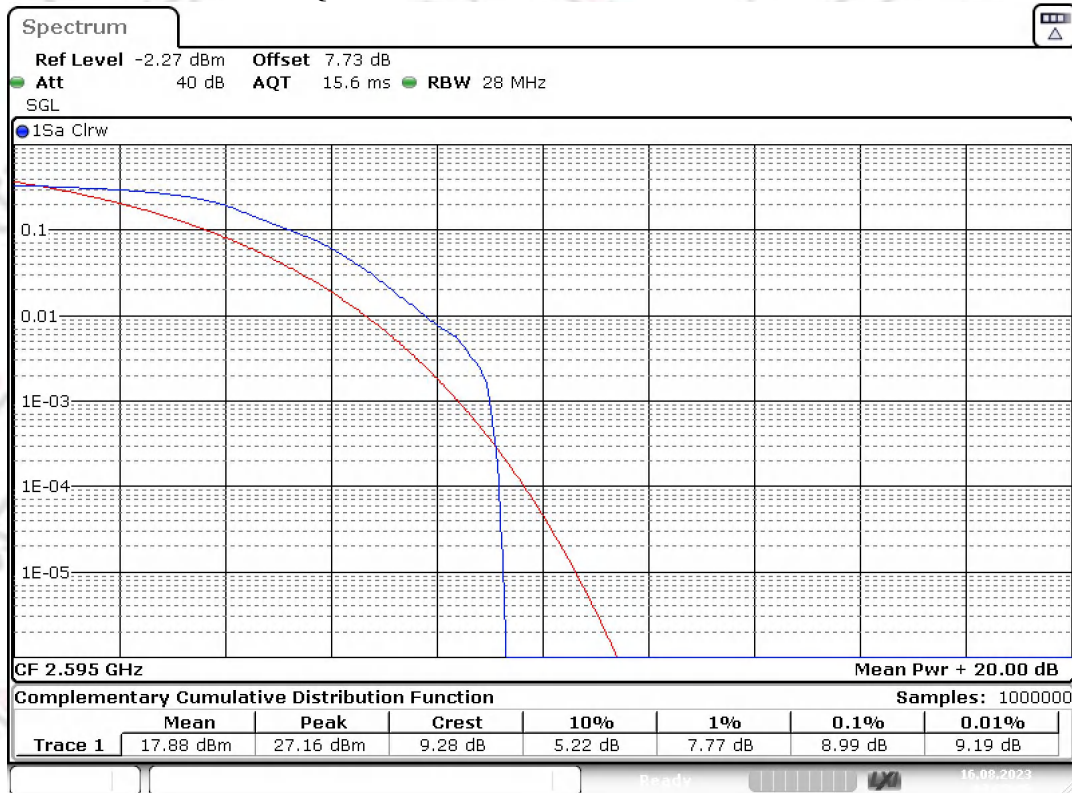
Date: 16.AUG.2023 03:58:37

Band38 QPSK BW=20MHz Channel=37850 RB Size=100 Position=#0



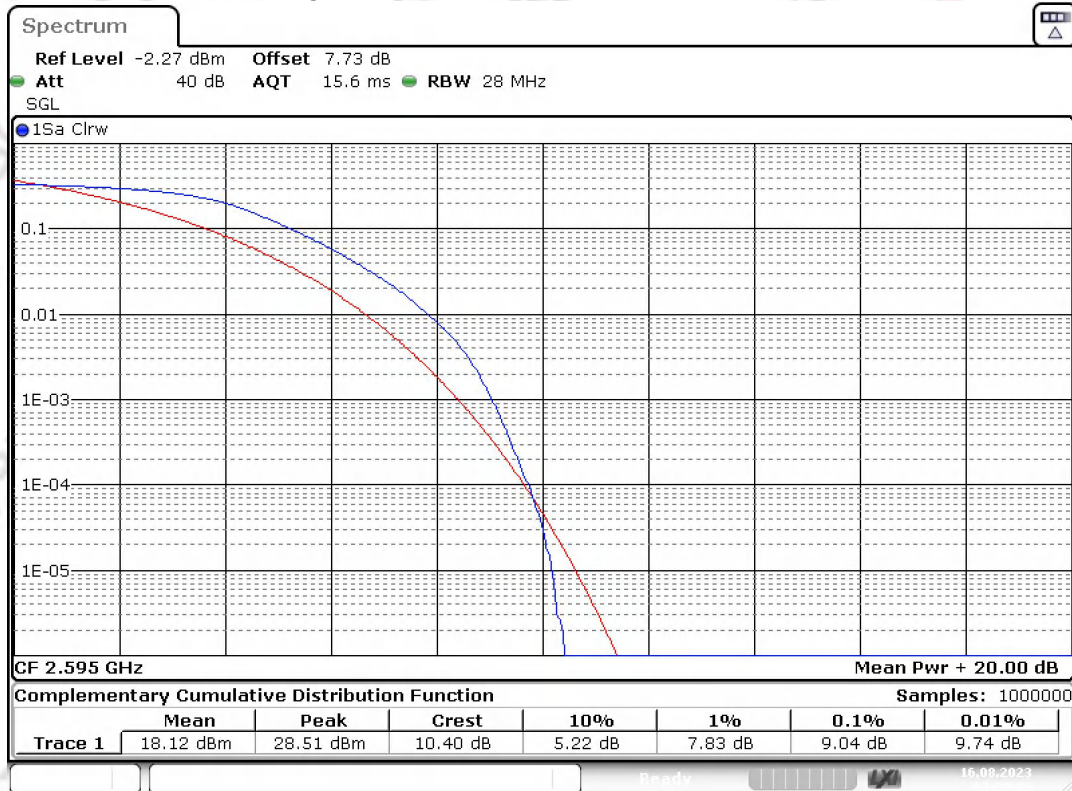
Date: 16.AUG.2023 03:58:40

Band38 QPSK BW=20MHz Channel=38000 RB Size=1 Position=#0



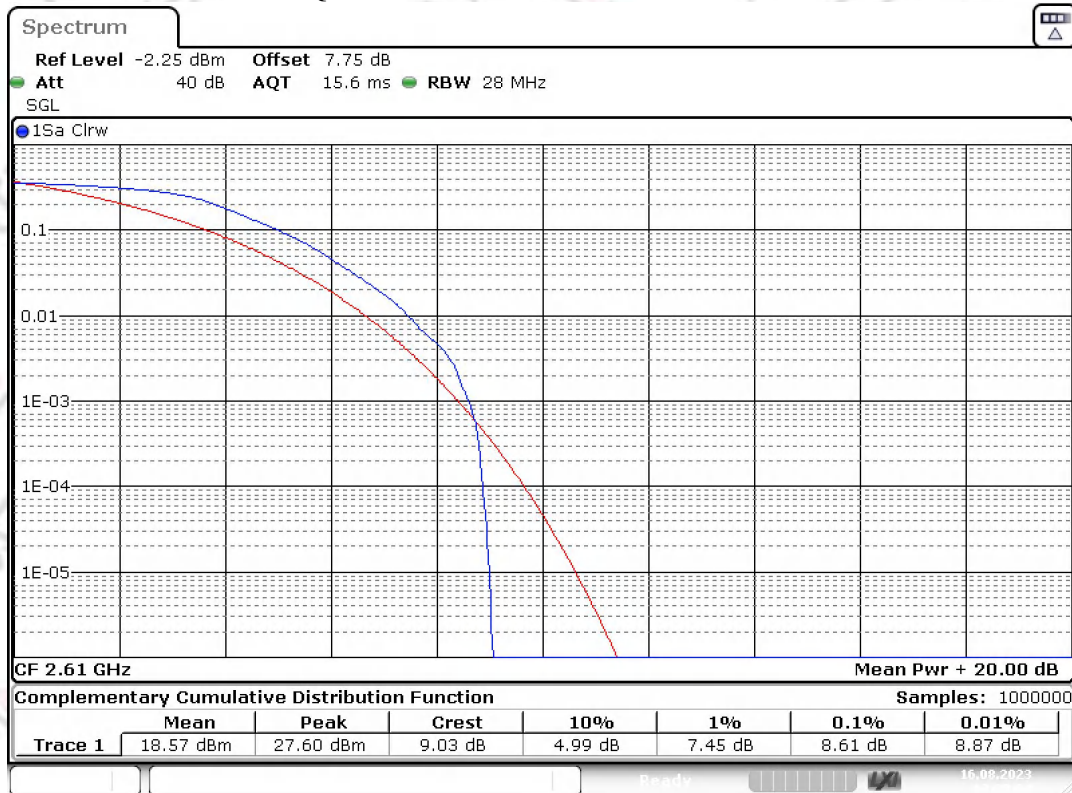
Date: 16.AUG.2023 03:58:45

Band38 QPSK BW=20MHz Channel=38000 RB Size=100 Position=#0



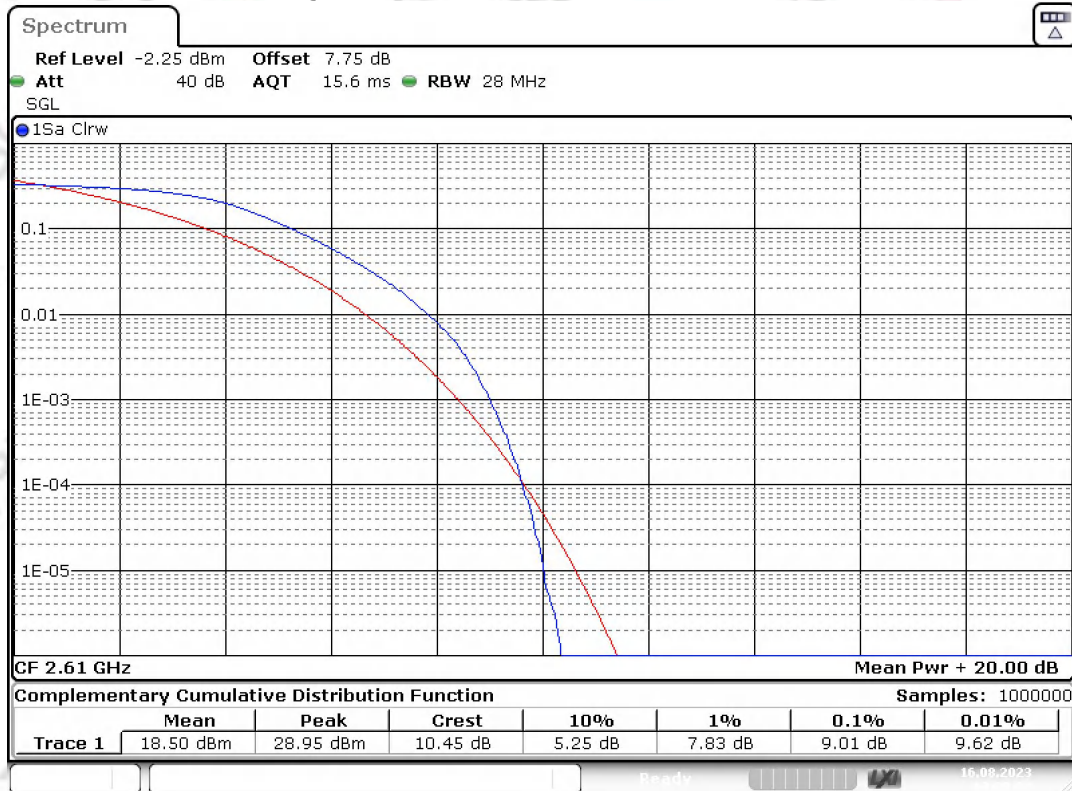
Date: 16.AUG.2023 03:58:49

Band38 QPSK BW=20MHz Channel=38150 RB Size=1 Position=#0



Date: 16.AUG.2023 03:58:54

Band38 QPSK BW=20MHz Channel=38150 RB Size=100 Position=#0



Date: 16.AUG.2023 03:58:57

04 Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band38	5	37775	25	#0	QAM16	4.486	4.928	PASS
Band38	5	38000	25	#0	QAM16	4.501	4.855	PASS
Band38	5	38225	25	#0	QAM16	4.515	4.884	PASS
Band38	10	37800	50	#0	QPSK	8.973	10.638	PASS
Band38	10	38000	50	#0	QPSK	9.001	9.768	PASS
Band38	10	38200	50	#0	QPSK	8.973	9.768	PASS
Band38	15	37825	75	#0	QPSK	13.502	15.174	PASS
Band38	15	38000	75	#0	QPSK	13.415	14.435	PASS
Band38	15	38175	75	#0	QPSK	13.415	14.478	PASS
Band38	20	37850	100	#0	QPSK	17.945	19.420	PASS
Band38	20	38000	100	#0	QPSK	17.887	21.101	PASS
Band38	20	38150	100	#0	QPSK	17.945	20.174	PASS
Band38	5	37775	25	#0	QPSK	4.486	4.928	PASS
Band38	5	38000	25	#0	QPSK	4.472	4.812	PASS
Band38	5	38225	25	#0	QPSK	4.501	4.884	PASS