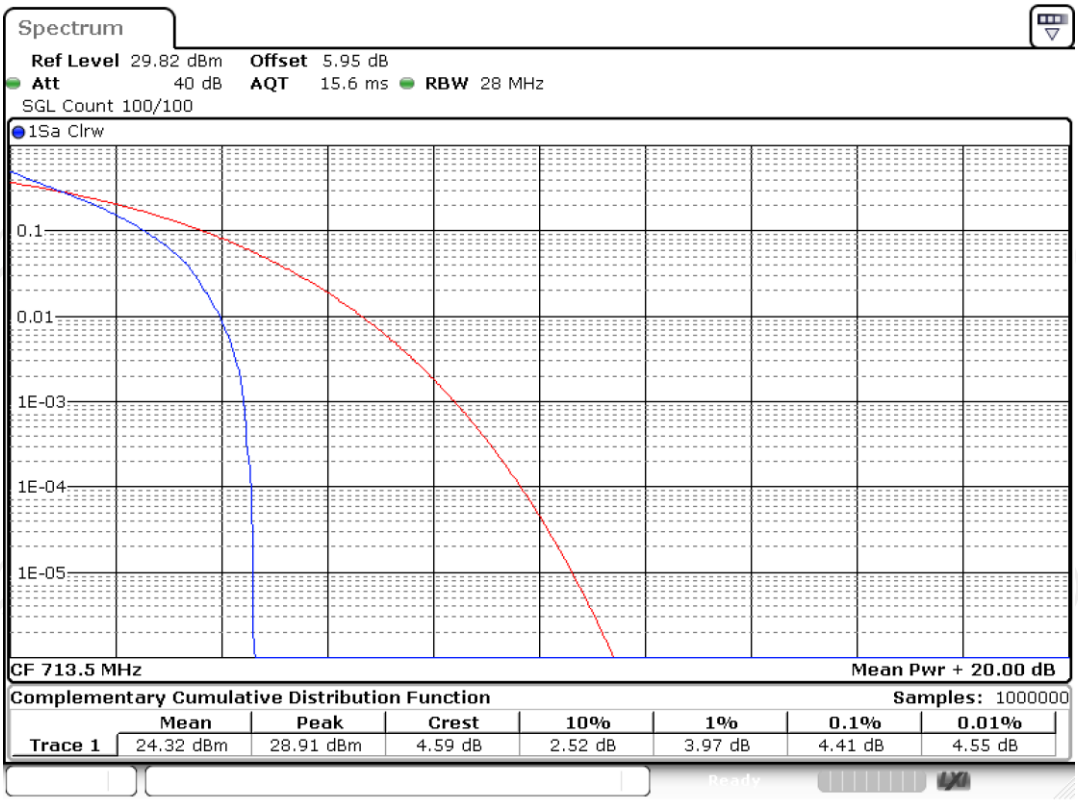
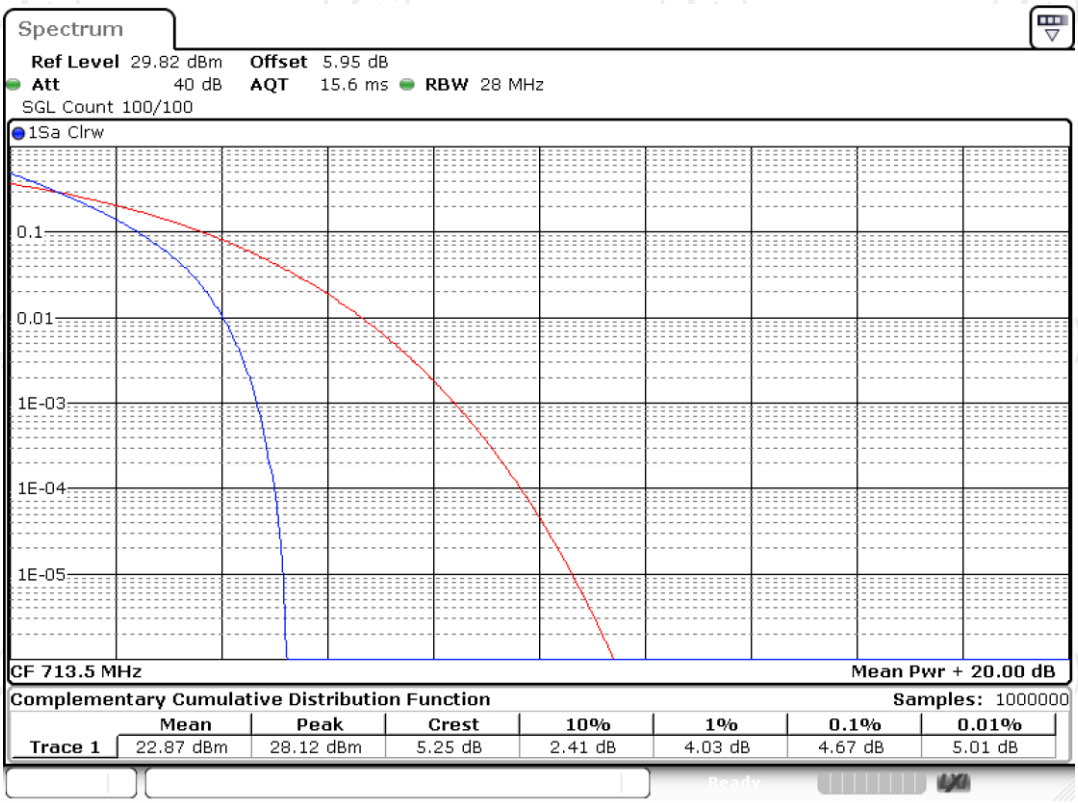


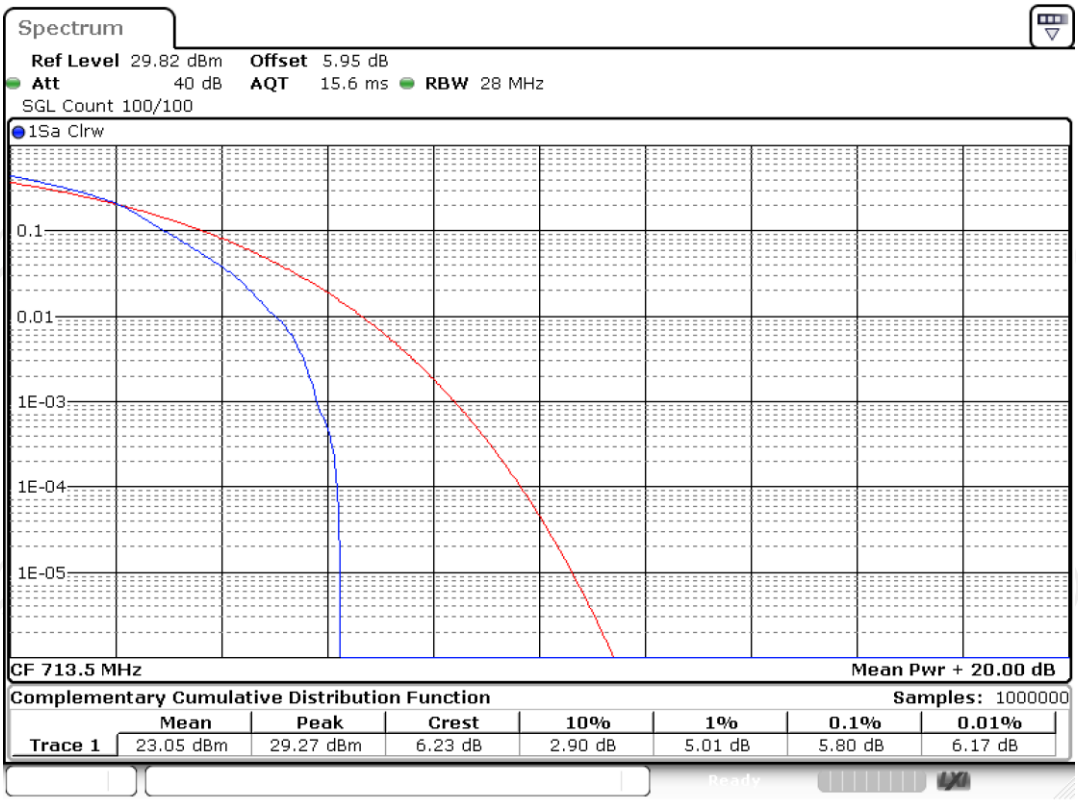
Date: 10.OCT.2023 13:17:09

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

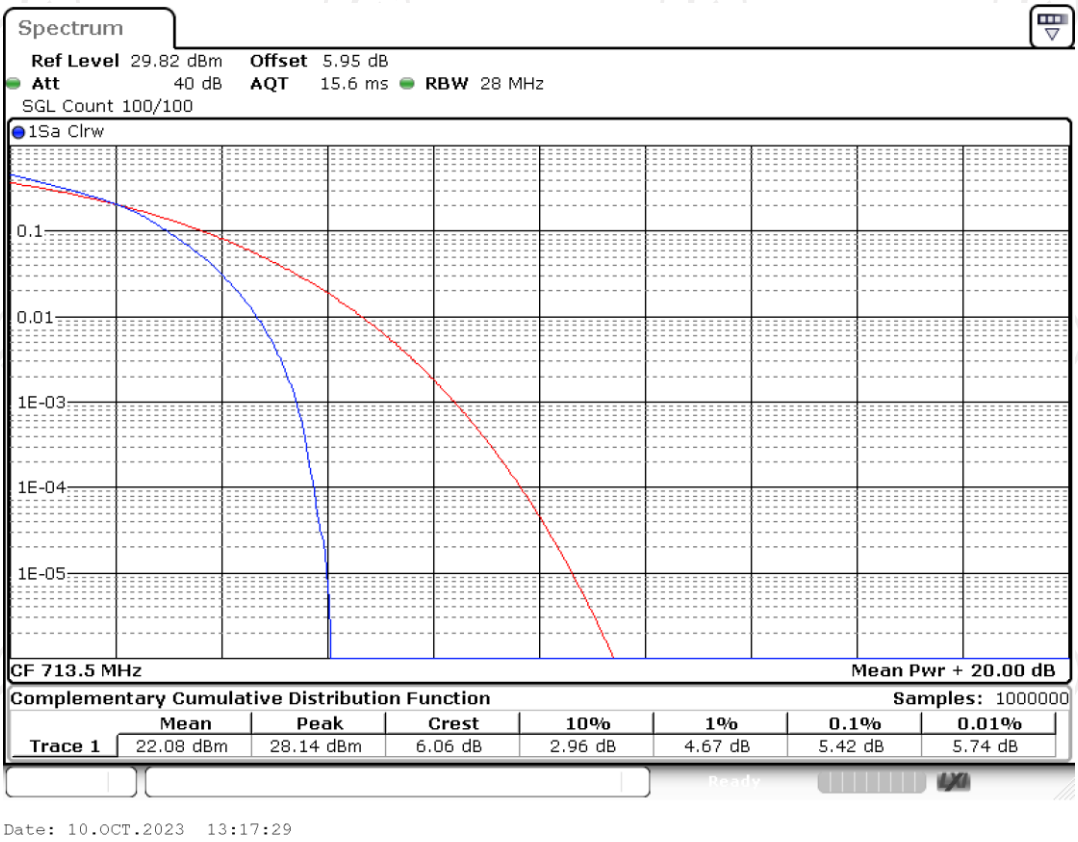


Date: 10.OCT.2023 13:17:15

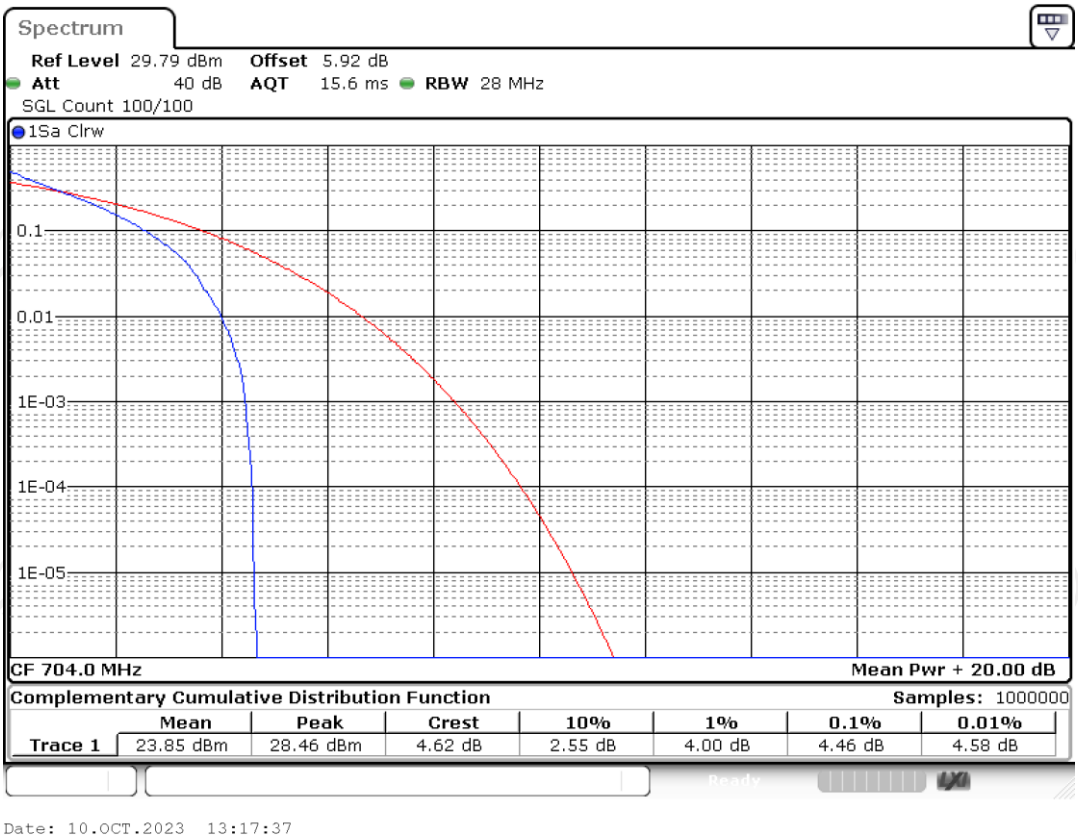
Band12 16QAM BW=5MHz Channel=23155 RB Size=1 Position=#0



Band12 16QAM BW=5MHz Channel=23155 RB Size=25 Position=#0

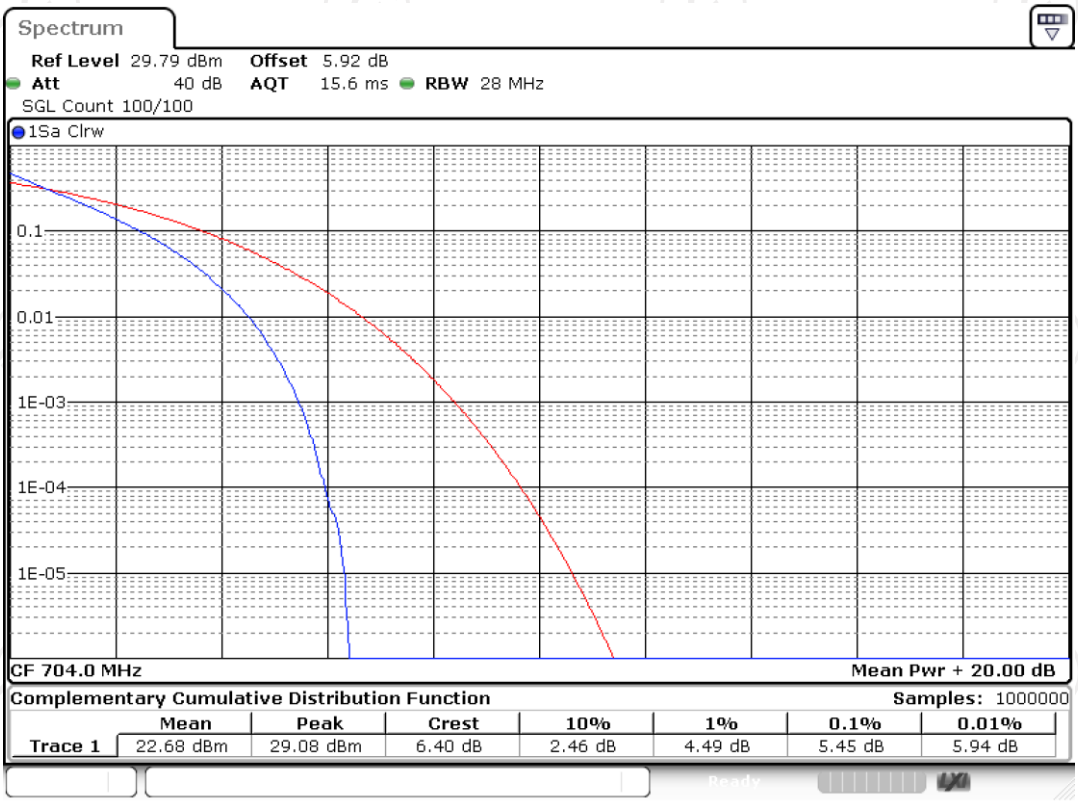


Band12 QPSK BW=10MHz Channel=23060 RB Size=1 Position=#0



Date: 10.OCT.2023 13:17:37

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



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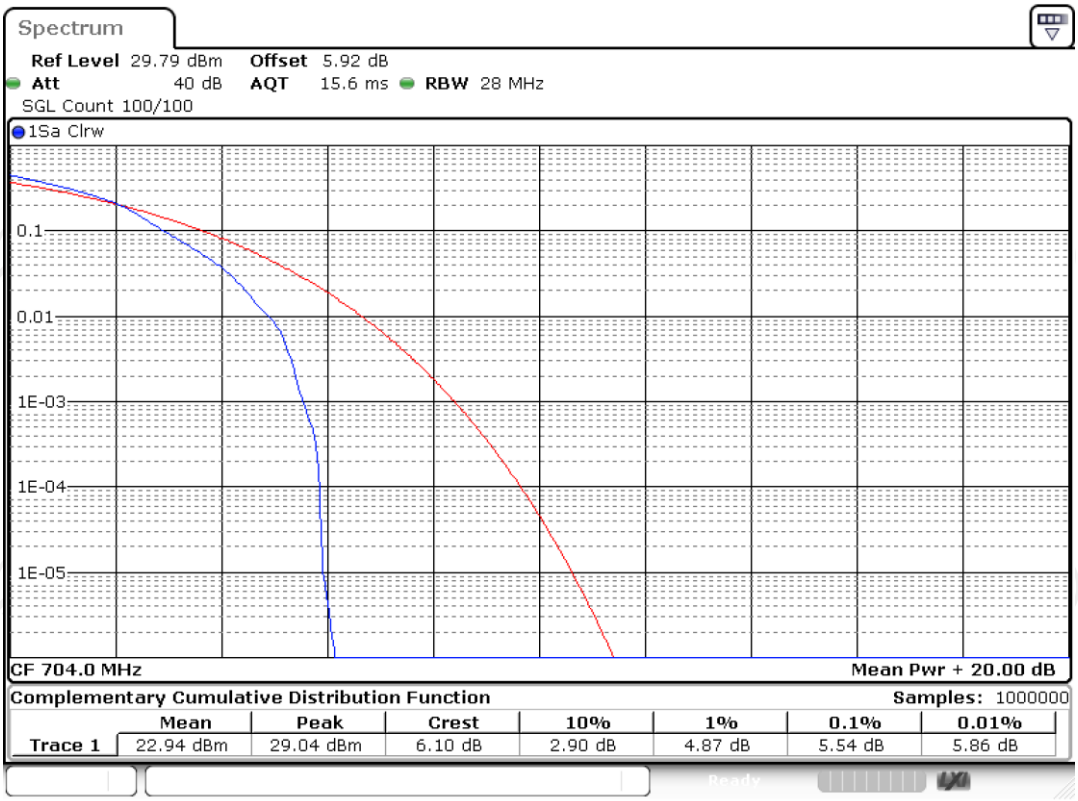
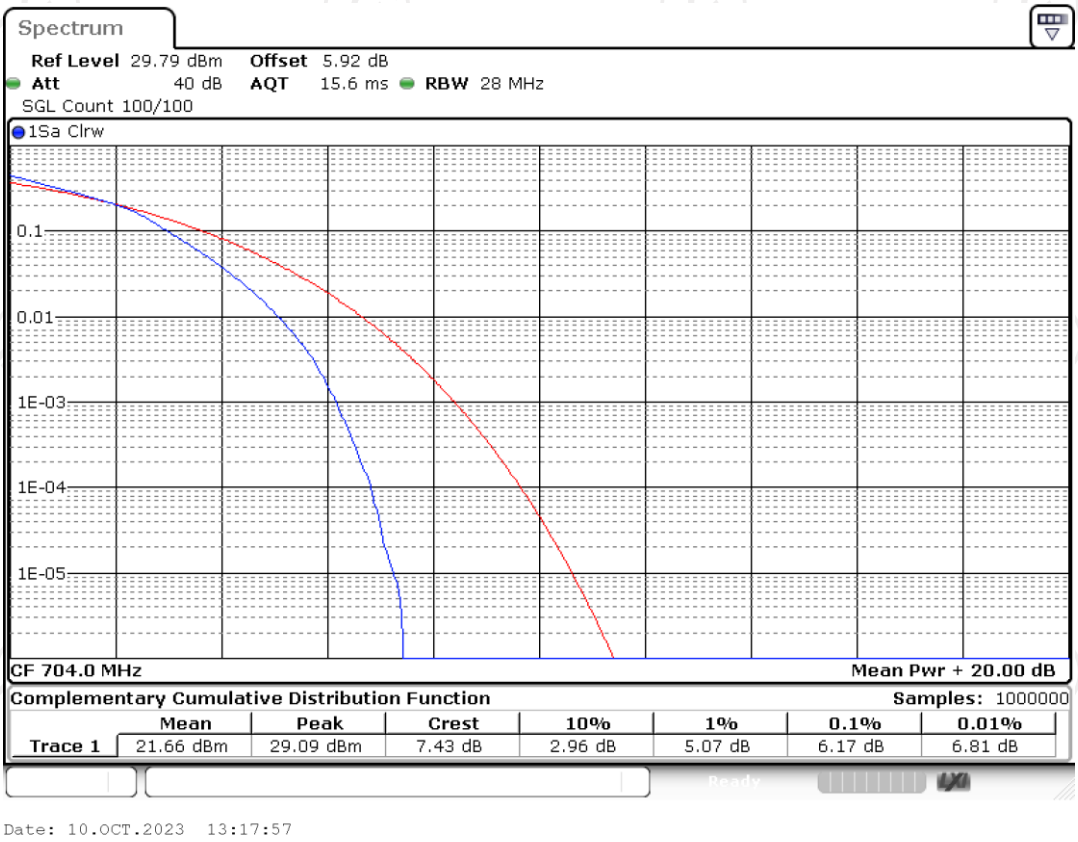
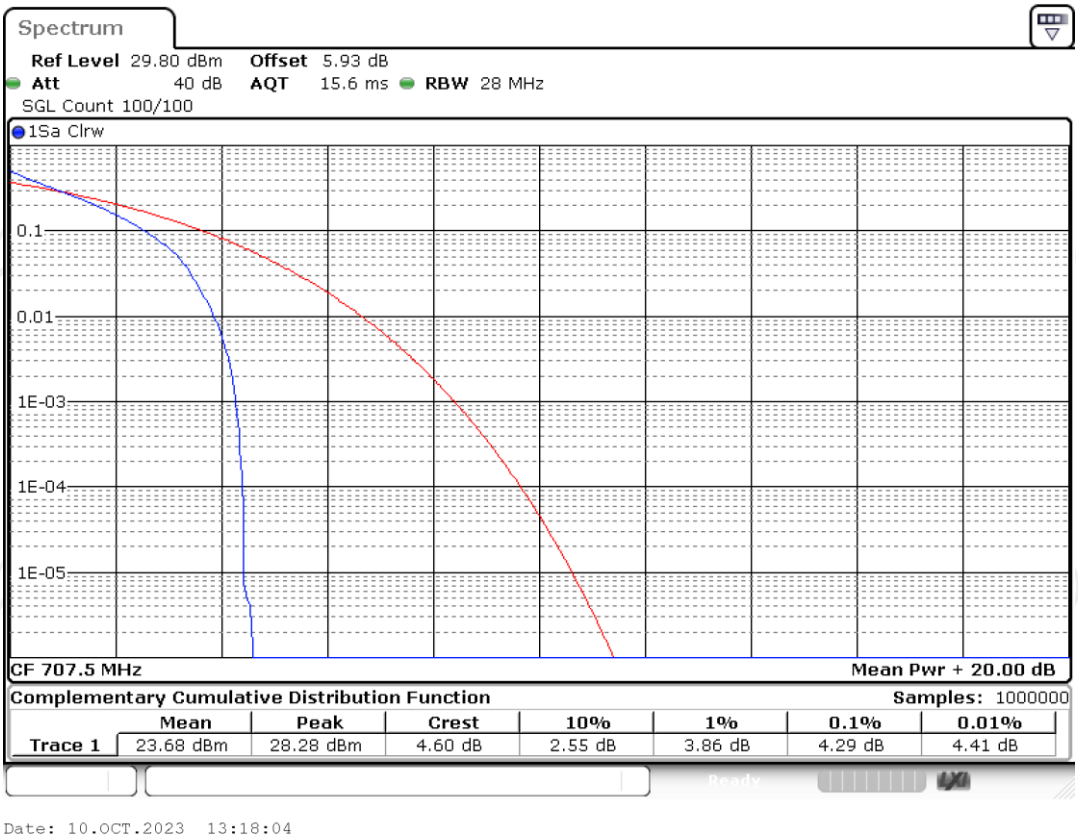
Band12 16QAM BW=10MHz Channel=23060 RB Size=1 Position=#0



Band12 16QAM BW=10MHz Channel=23060 RB Size=50 Position=#0

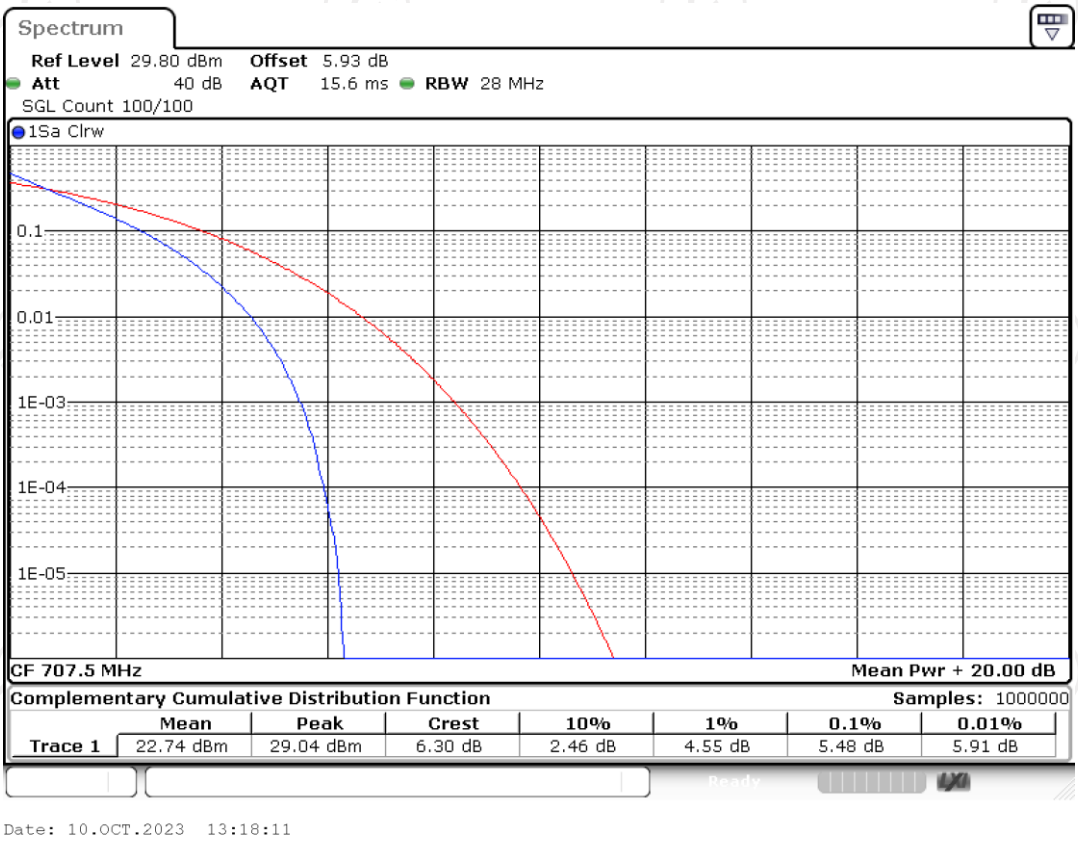


Band12 QPSK BW=10MHz Channel=23095 RB Size=1 Position=#0



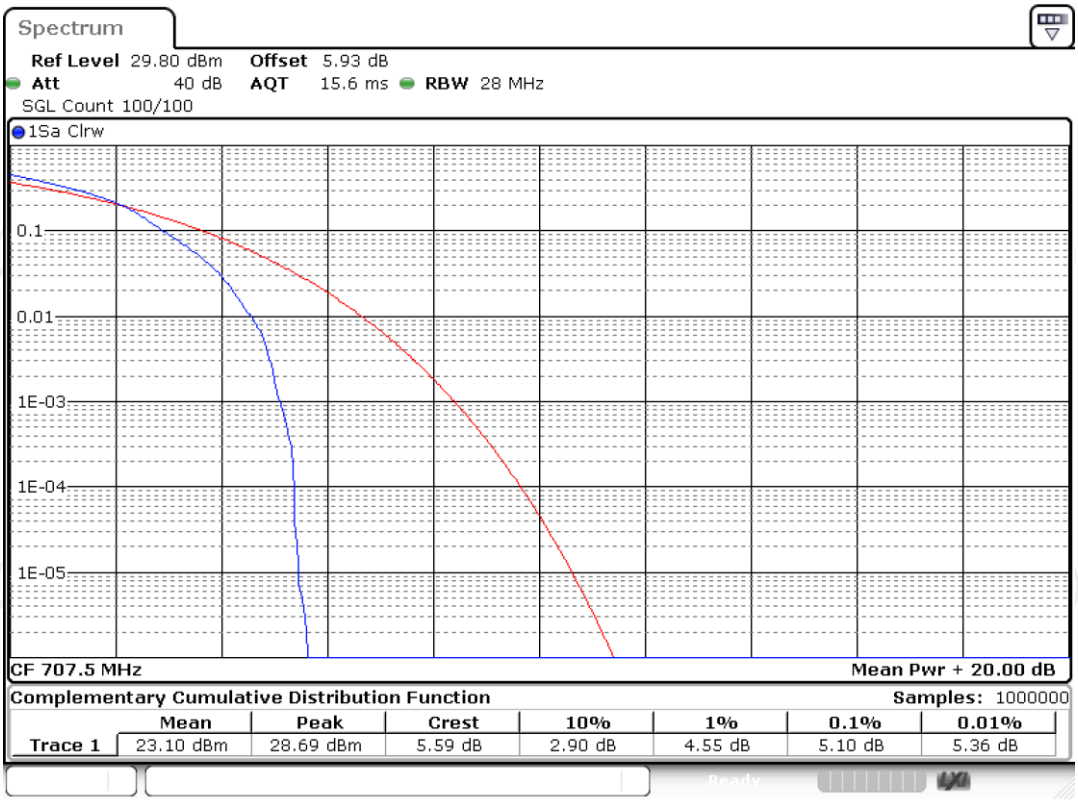
Date: 10.OCT.2023 13:18:04

Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0



Date: 10.OCT.2023 13:18:11

Band12 16QAM BW=10MHz Channel=23095 RB Size=1 Position=#0



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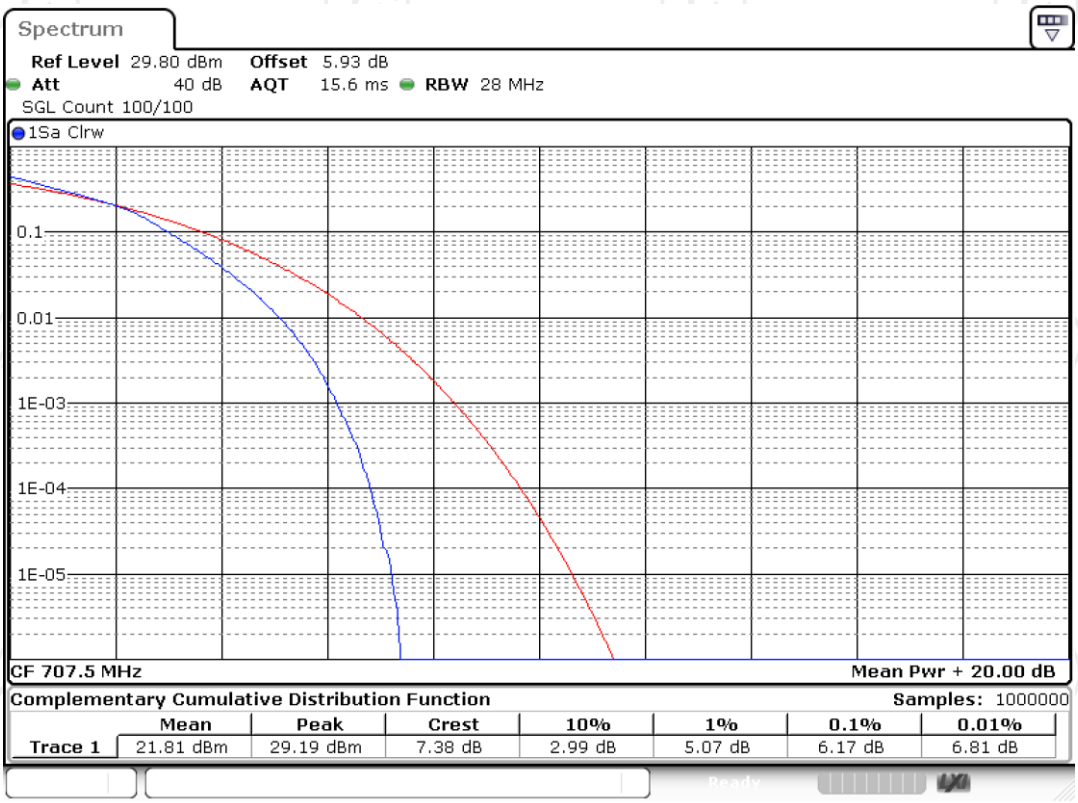
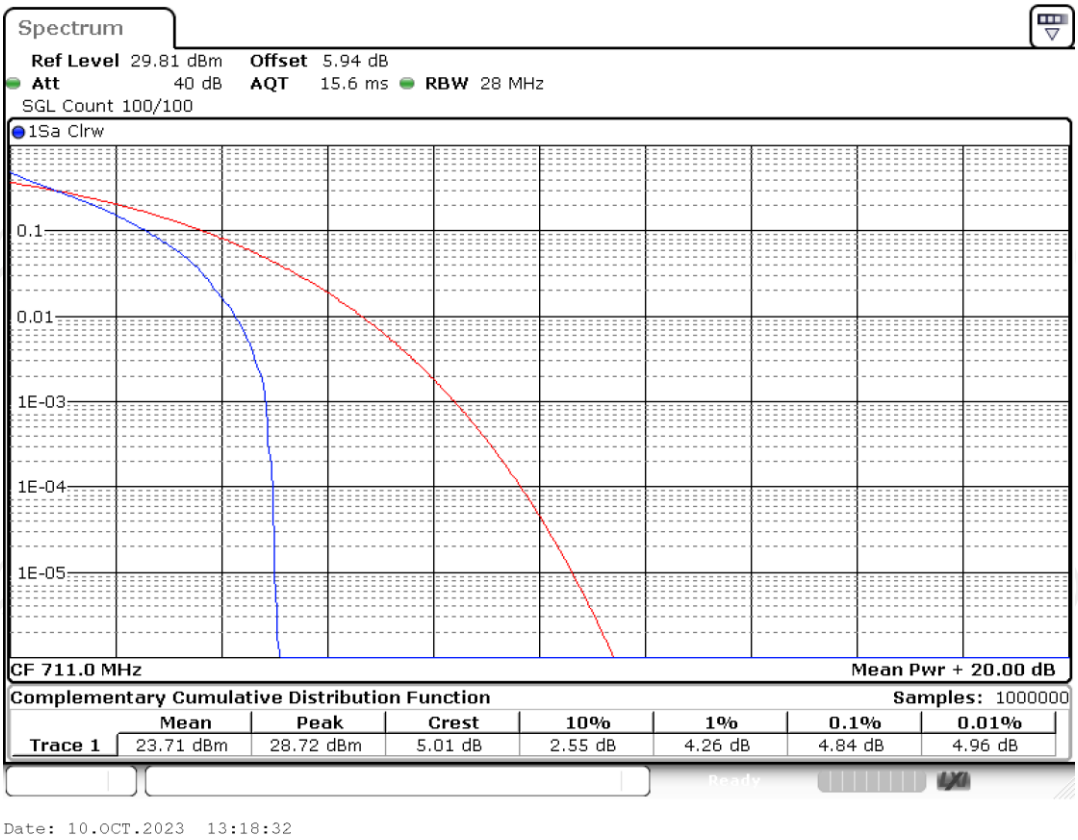
Band12 16QAM BW=10MHz Channel=23095 RB Size=50 Position=#0



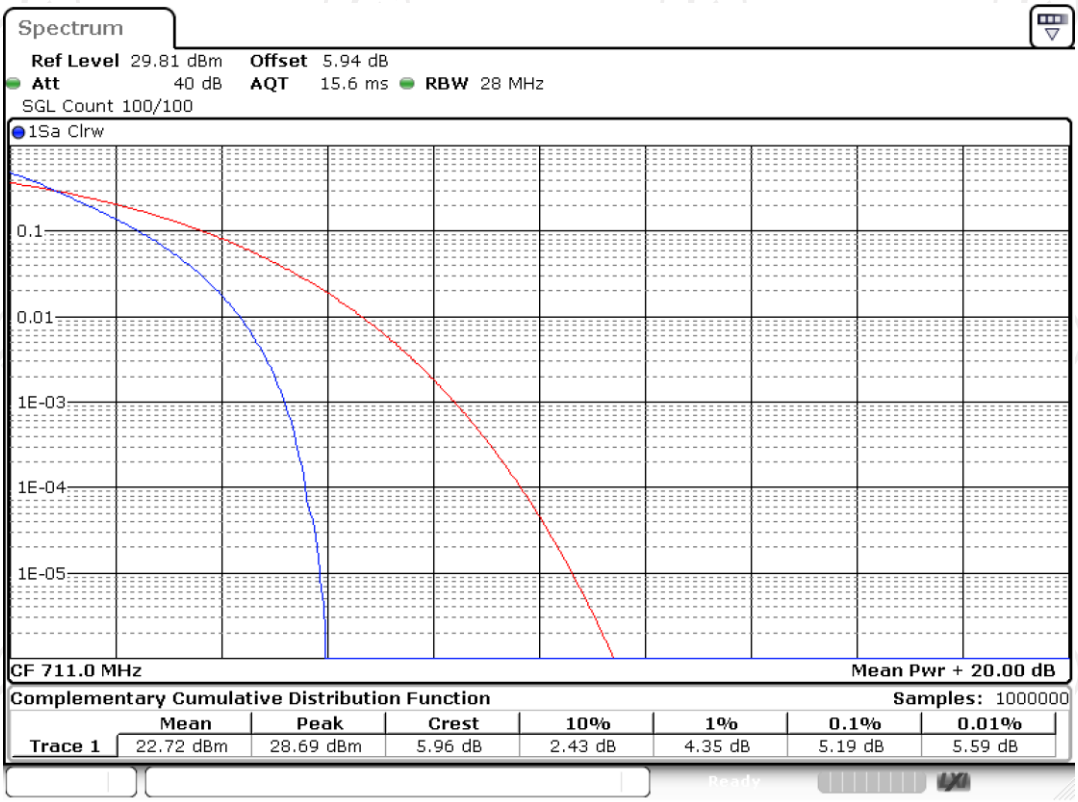
Date: 10.OCT.2023 13:18:25

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



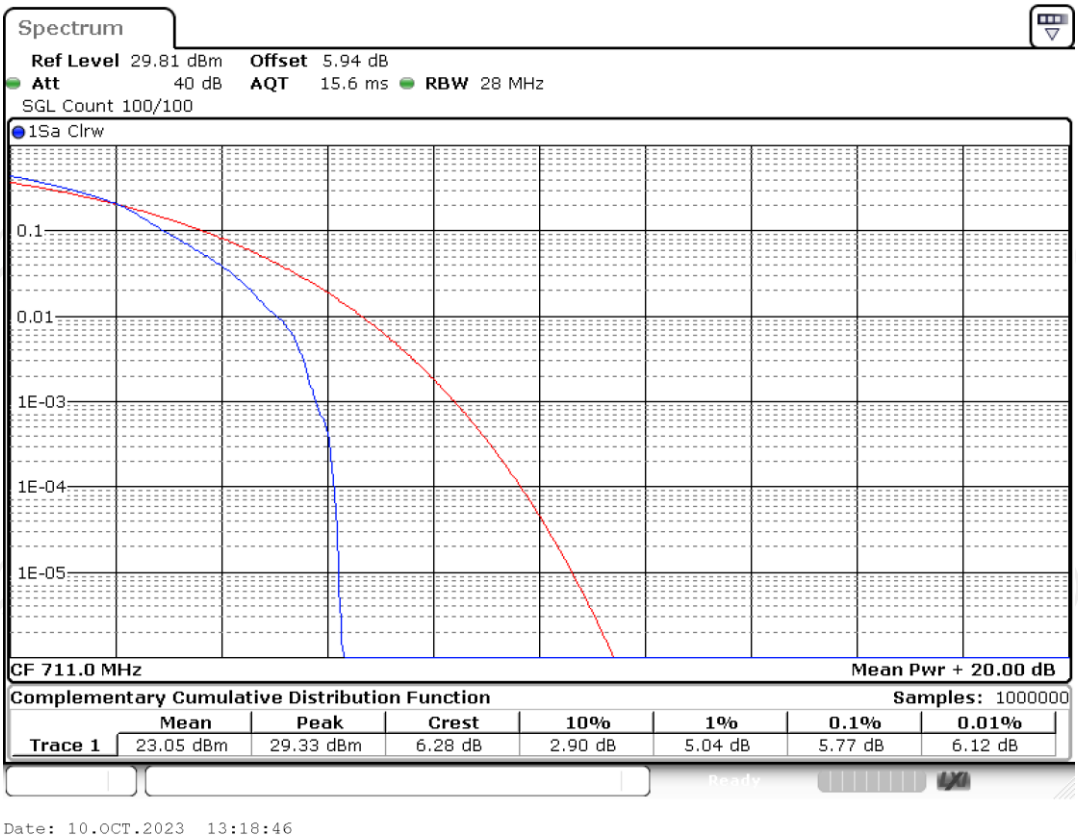
Date: 10.OCT.2023 13:18:32

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



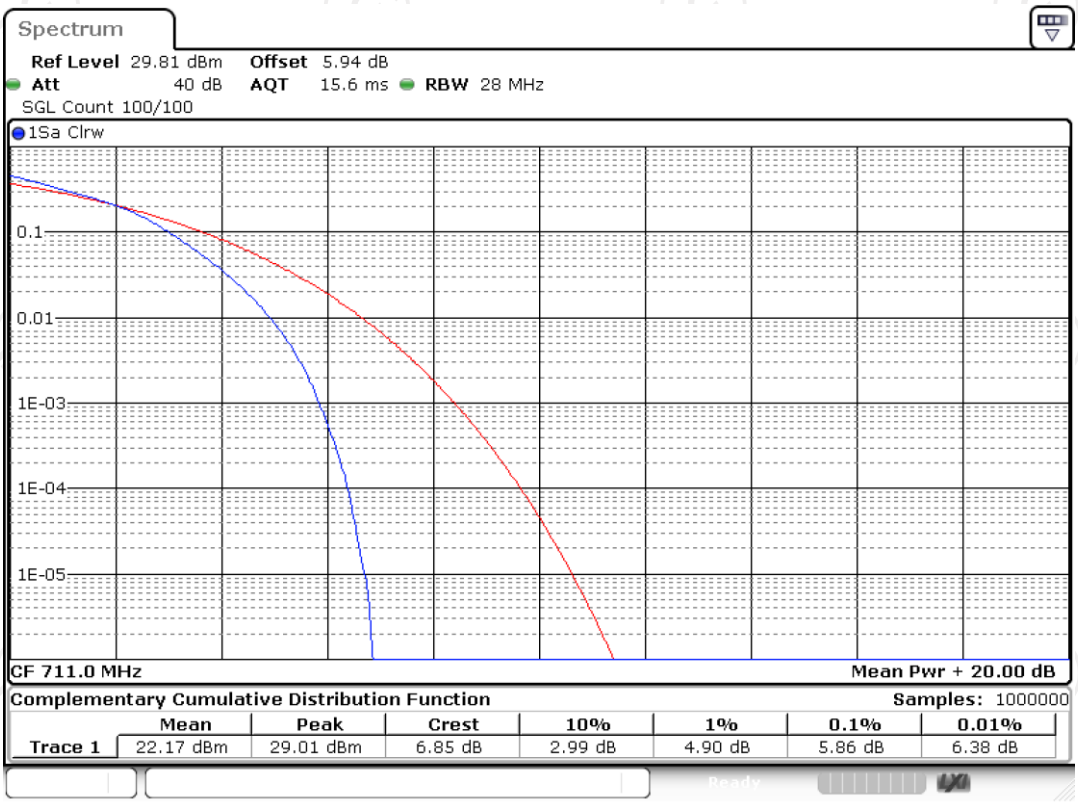
Date: 10.OCT.2023 13:18:39

Band12 16QAM BW=10MHz Channel=23130 RB Size=1 Position=#0



Date: 10.OCT.2023 13:18:46

Band12 16QAM BW=10MHz Channel=23130 RB Size=50 Position=#0



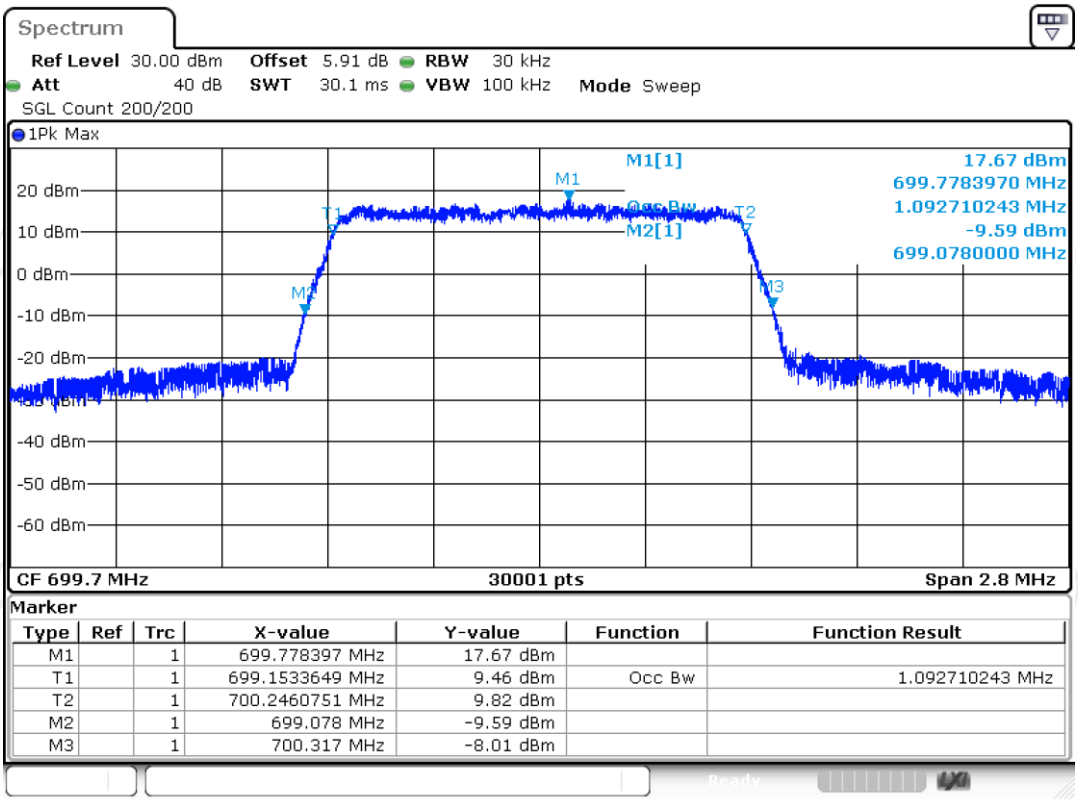
Date: 10.OCT.2023 13:18:52

4 Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band12	1.4	23017	6	#0	QPSK	1.093	1.239	PASS
Band12	1.4	23017	6	#0	16QAM	1.092	1.249	PASS
Band12	1.4	23095	6	#0	QPSK	1.093	1.240	PASS
Band12	1.4	23095	6	#0	16QAM	1.094	1.243	PASS
Band12	1.4	23173	6	#0	QPSK	1.095	1.252	PASS
Band12	1.4	23173	6	#0	16QAM	1.095	1.254	PASS
Band12	3	23025	15	#0	QPSK	2.733	3.091	PASS
Band12	3	23025	15	#0	16QAM	2.729	3.093	PASS
Band12	3	23095	15	#0	QPSK	2.735	3.091	PASS
Band12	3	23095	15	#0	16QAM	2.730	3.090	PASS
Band12	3	23165	15	#0	QPSK	2.740	3.123	PASS
Band12	3	23165	15	#0	16QAM	2.734	3.098	PASS
Band12	5	23035	25	#0	QPSK	4.487	4.950	PASS
Band12	5	23035	25	#0	16QAM	4.486	4.964	PASS
Band12	5	23095	25	#0	QPSK	4.490	4.971	PASS
Band12	5	23095	25	#0	16QAM	4.490	4.989	PASS
Band12	5	23155	25	#0	QPSK	4.484	4.970	PASS
Band12	5	23155	25	#0	16QAM	4.481	4.938	PASS
Band12	10	23060	50	#0	QPSK	8.992	9.916	PASS
Band12	10	23060	50	#0	16QAM	8.967	9.845	PASS
Band12	10	23095	50	#0	QPSK	8.999	9.902	PASS
Band12	10	23095	50	#0	16QAM	8.982	9.835	PASS
Band12	10	23130	50	#0	QPSK	8.964	9.925	PASS
Band12	10	23130	50	#0	16QAM	8.949	9.809	PASS

Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

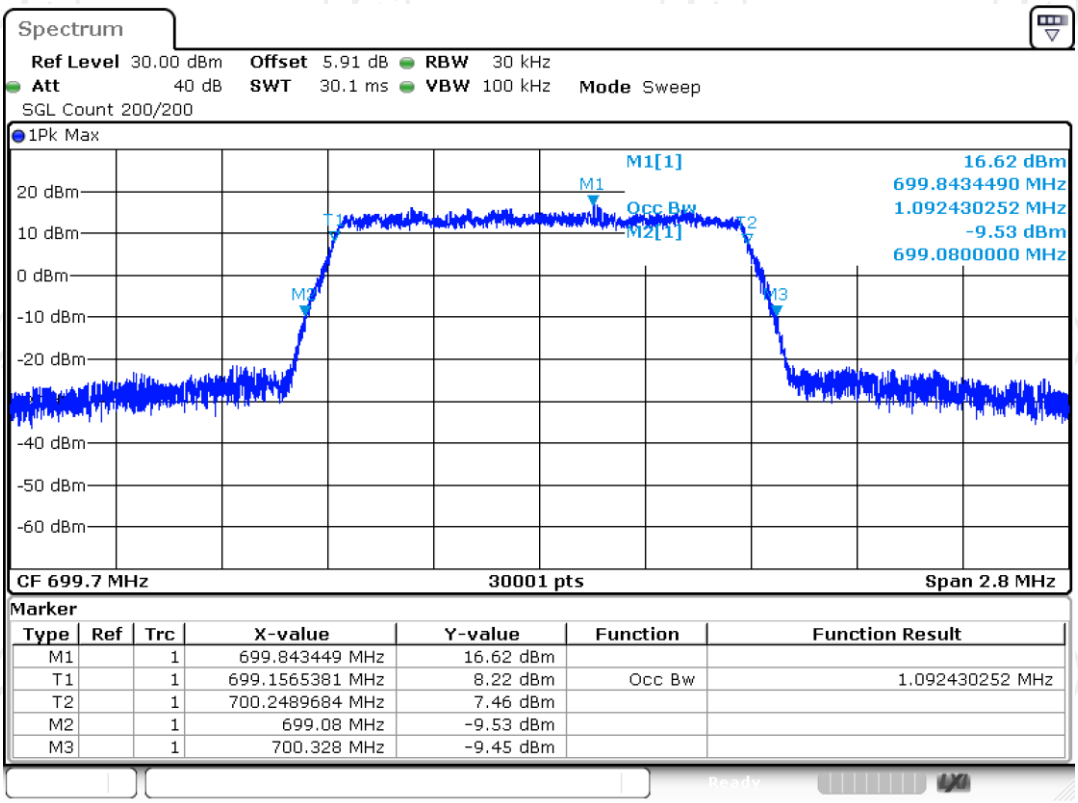


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.778397 MHz	17.67 dBm		
T1		1	699.1533649 MHz	9.46 dBm	Occ Bw	1.092710243 MHz
T2		1	700.2460751 MHz	9.82 dBm		
M2		1	699.078 MHz	-9.59 dBm		
M3		1	700.317 MHz	-8.01 dBm		

Date: 10.OCT.2023 13:19:13

Band12 16QAM BW=1.4MHz Channel=23017 RB Size=6 Position=#0

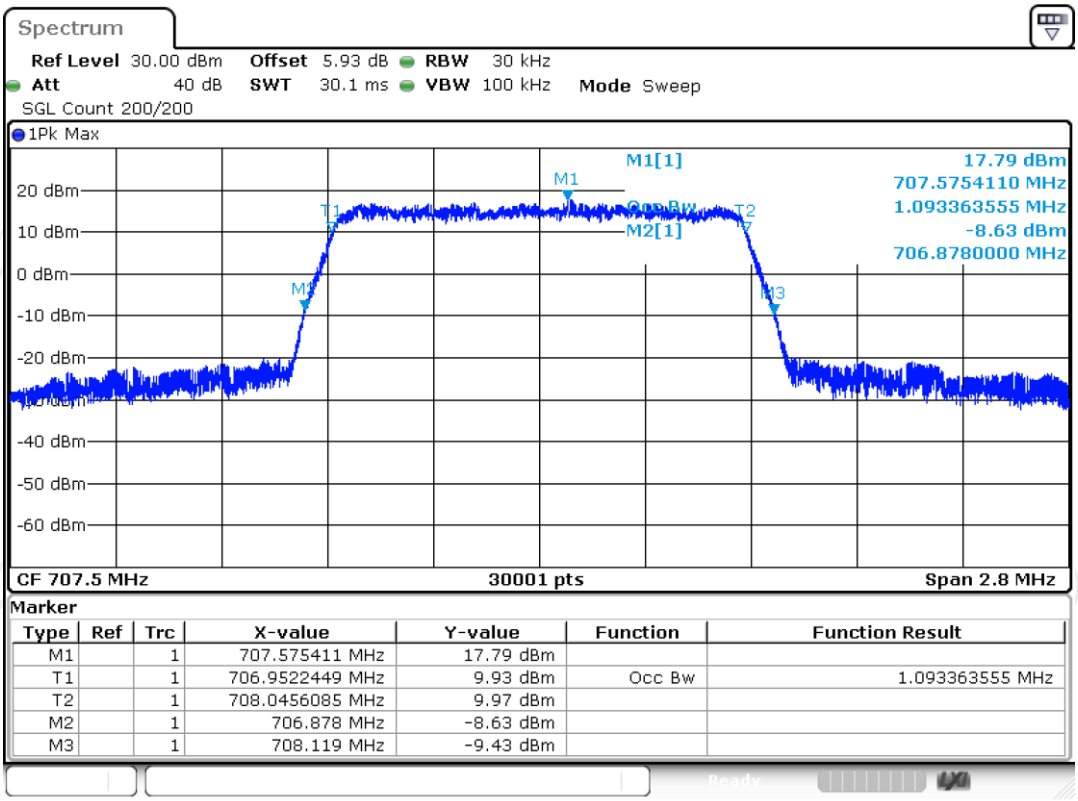


Marker

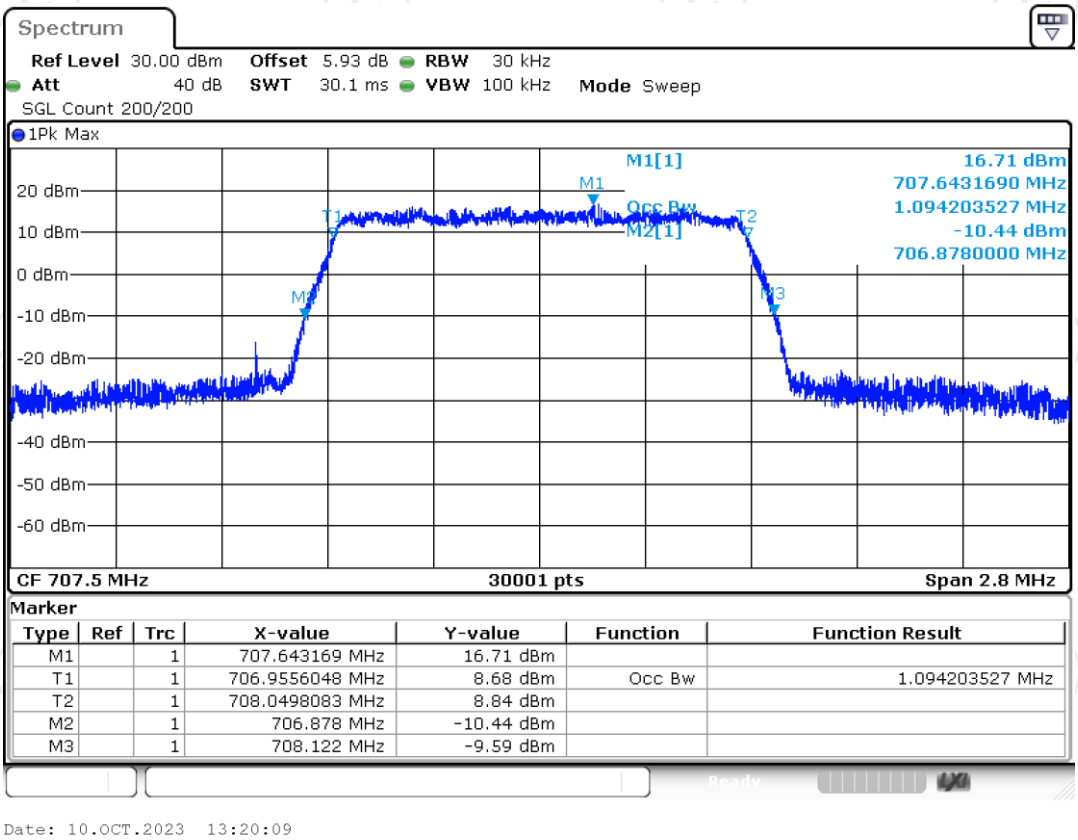
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.843449 MHz	16.62 dBm		
T1		1	699.1565381 MHz	8.22 dBm	Occ Bw	1.092430252 MHz
T2		1	700.2489684 MHz	7.46 dBm		
M2		1	699.08 MHz	-9.53 dBm		
M3		1	700.328 MHz	-9.45 dBm		

Date: 10.OCT.2023 13:19:32

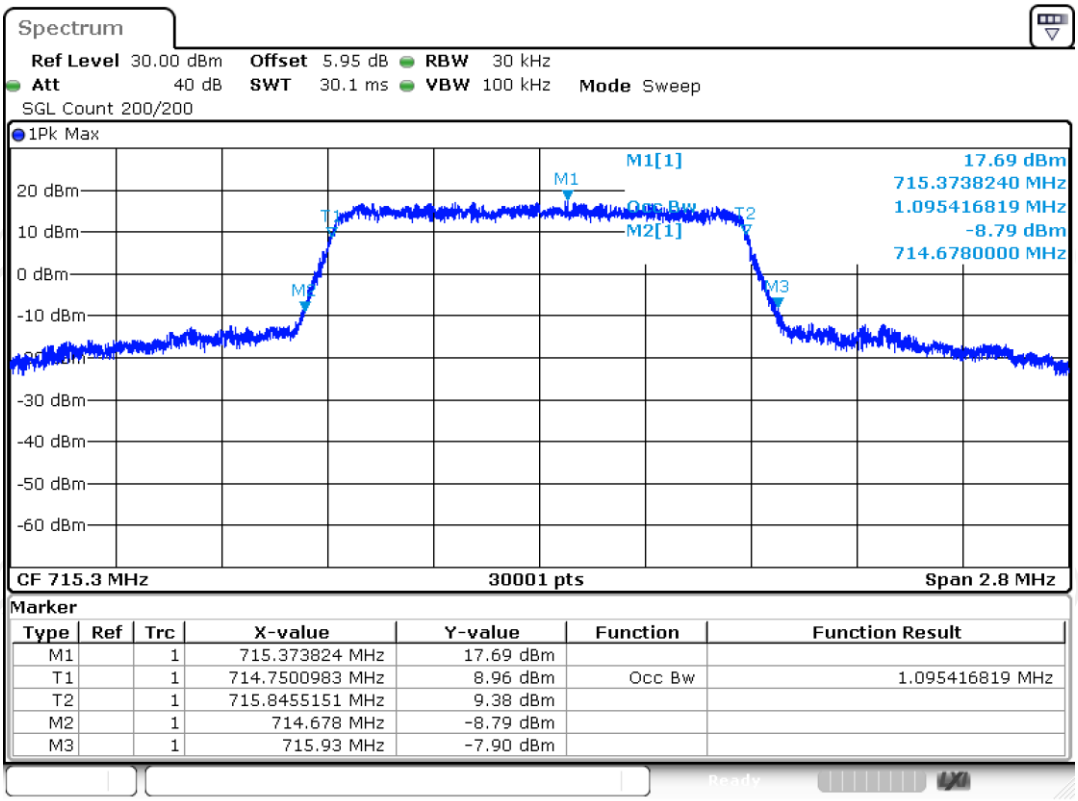
Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0



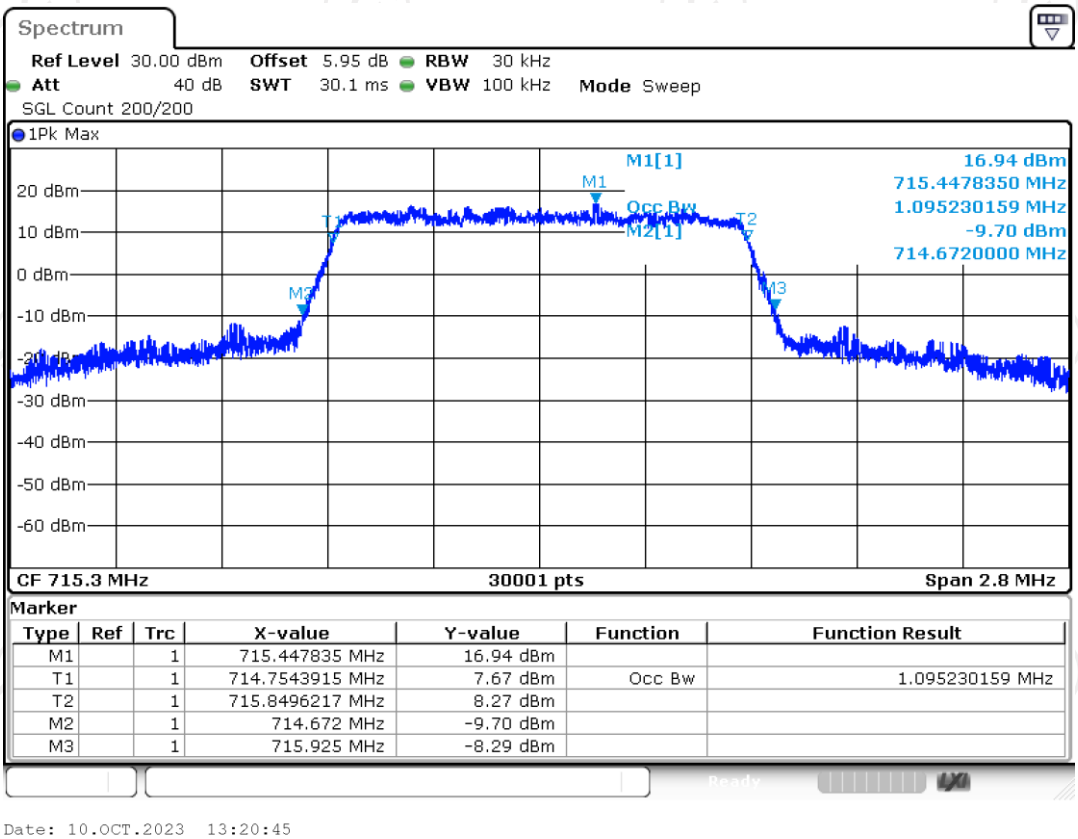
Band12 16QAM BW=1.4MHz Channel=23095 RB Size=6 Position=#0



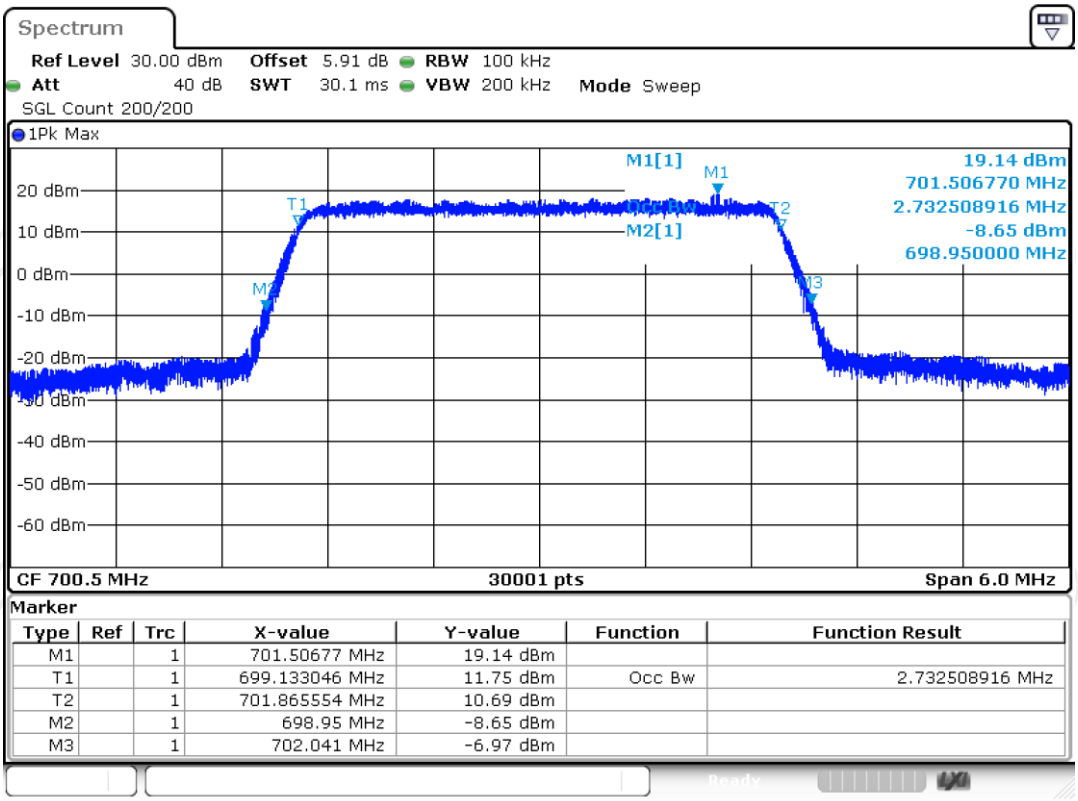
Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0



Band12 16QAM BW=1.4MHz Channel=23173 RB Size=6 Position=#0

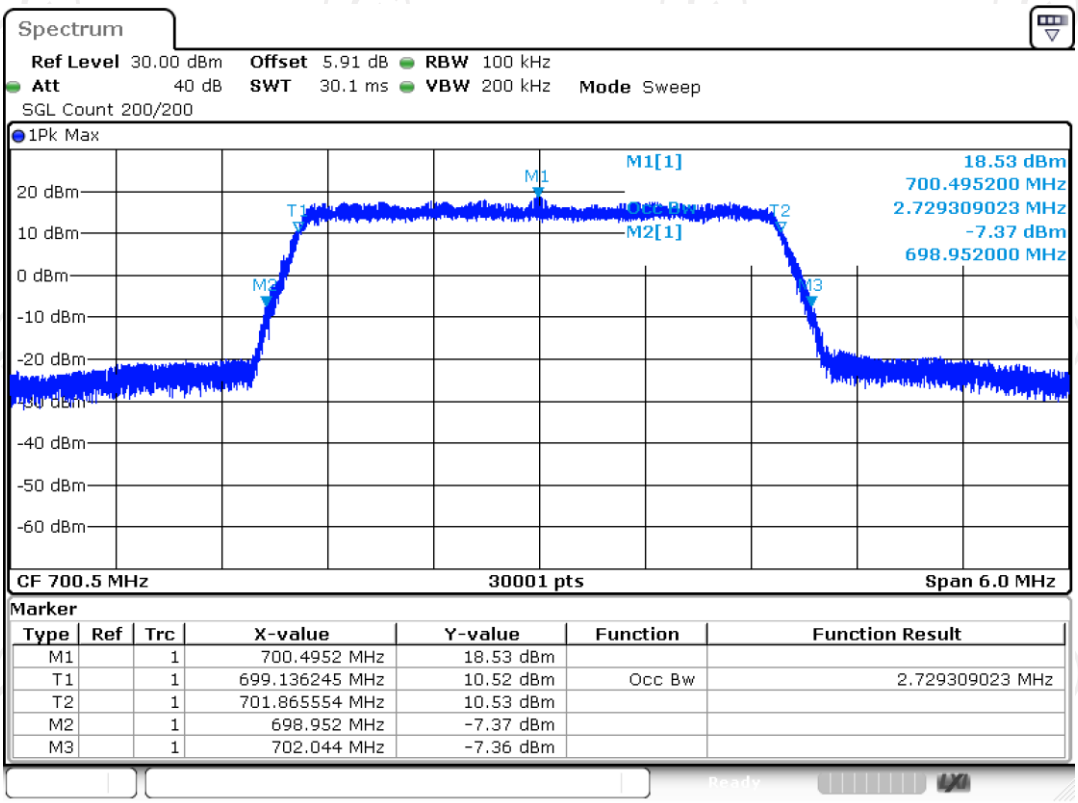


Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0



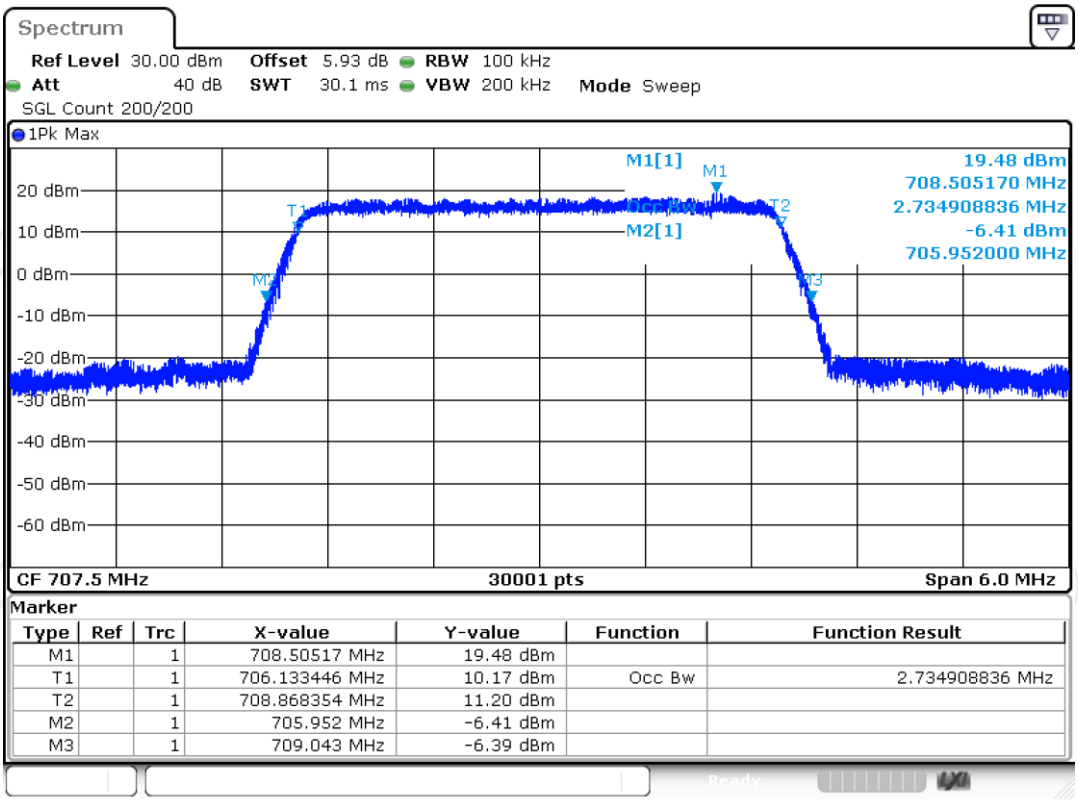
Date: 10.OCT.2023 13:21:03

Band12 16QAM BW=3MHz Channel=23025 RB Size=15 Position=#0



Date: 10.OCT.2023 13:21:20

Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	708.50517 MHz	19.48 dBm		
T1		1	706.133446 MHz	10.17 dBm	Occ Bw	2.734908836 MHz
T2		1	708.868354 MHz	11.20 dBm		
M2		1	705.952 MHz	-6.41 dBm		
M3		1	709.043 MHz	-6.39 dBm		

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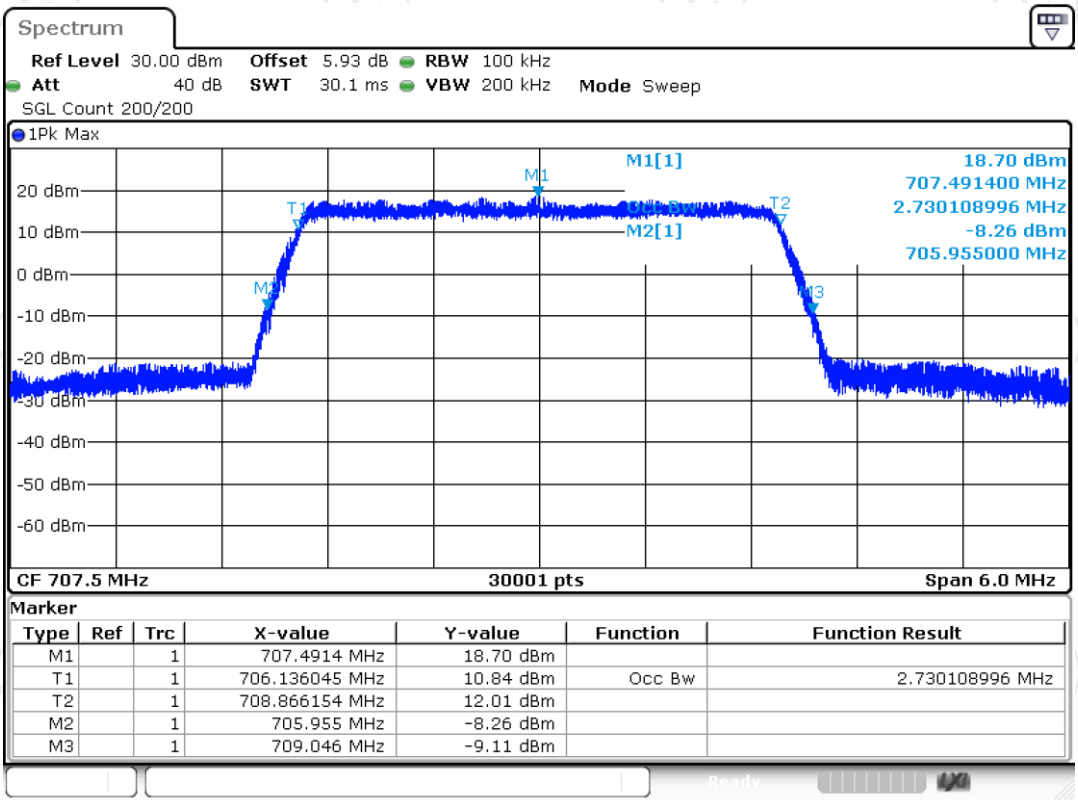
Band12 16QAM BW=3MHz Channel=23095 RB Size=15 Position=#0

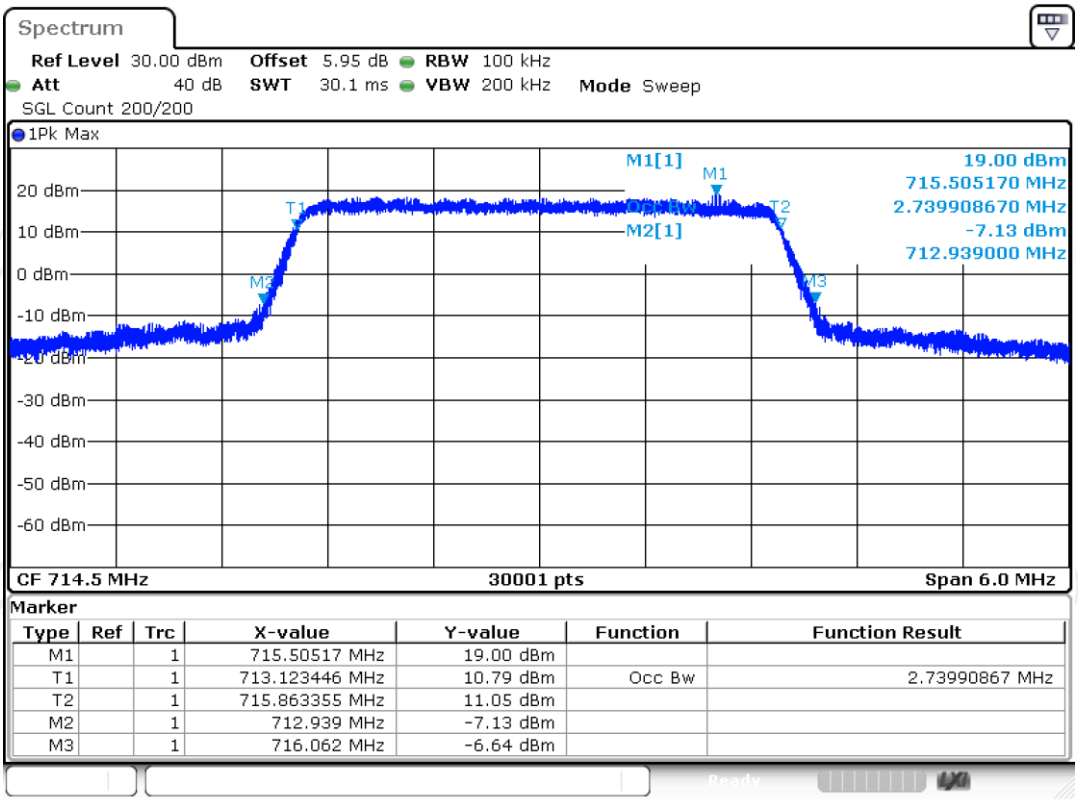


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	707.4914 MHz	18.70 dBm		
T1		1	706.136045 MHz	10.84 dBm	Occ Bw	2.730108996 MHz
T2		1	708.866154 MHz	12.01 dBm		
M2		1	705.955 MHz	-8.26 dBm		
M3		1	709.046 MHz	-9.11 dBm		

Date: 10.OCT.2023 13:21:56

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

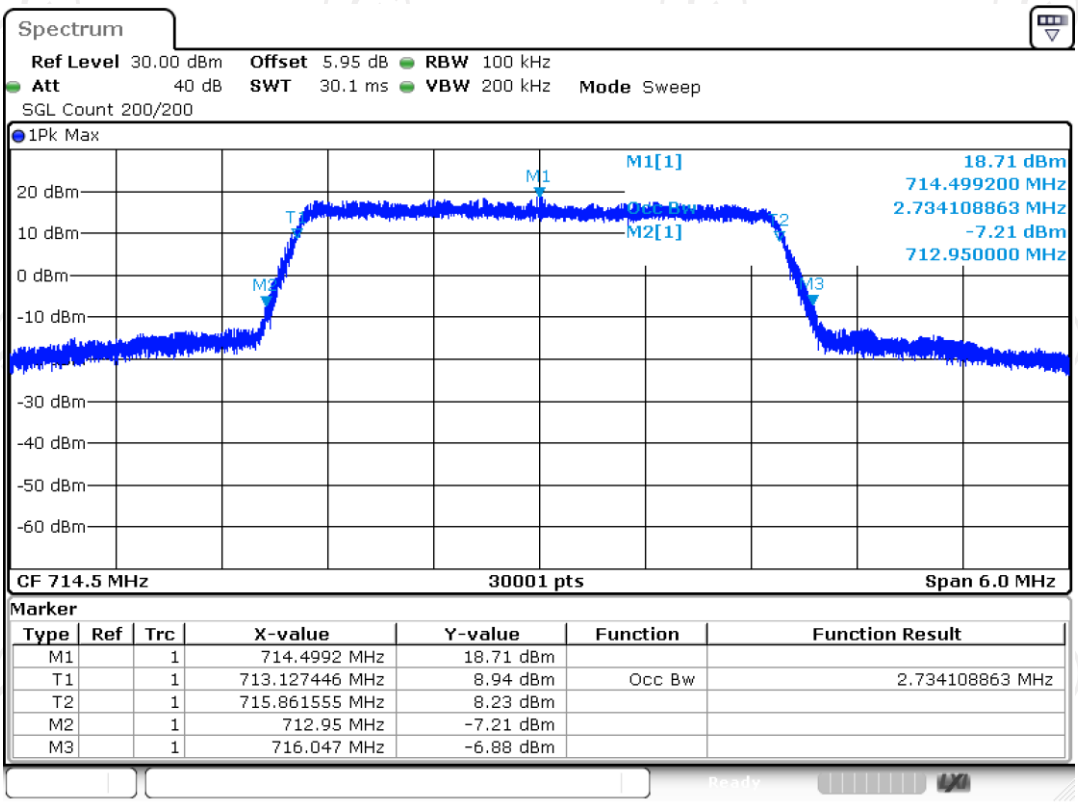


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	715.50517 MHz	19.00 dBm		
T1		1	713.123446 MHz	10.79 dBm	Occ Bw	2.73990867 MHz
T2		1	715.863355 MHz	11.05 dBm		
M2		1	712.939 MHz	-7.13 dBm		
M3		1	716.062 MHz	-6.64 dBm		

Date: 10.OCT.2023 13:22:13

Band12 16QAM BW=3MHz Channel=23165 RB Size=15 Position=#0



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	714.4992 MHz	18.71 dBm		
T1		1	713.127446 MHz	8.94 dBm	Occ Bw	2.734108863 MHz
T2		1	715.861555 MHz	8.23 dBm		
M2		1	712.95 MHz	-7.21 dBm		
M3		1	716.047 MHz	-6.88 dBm		

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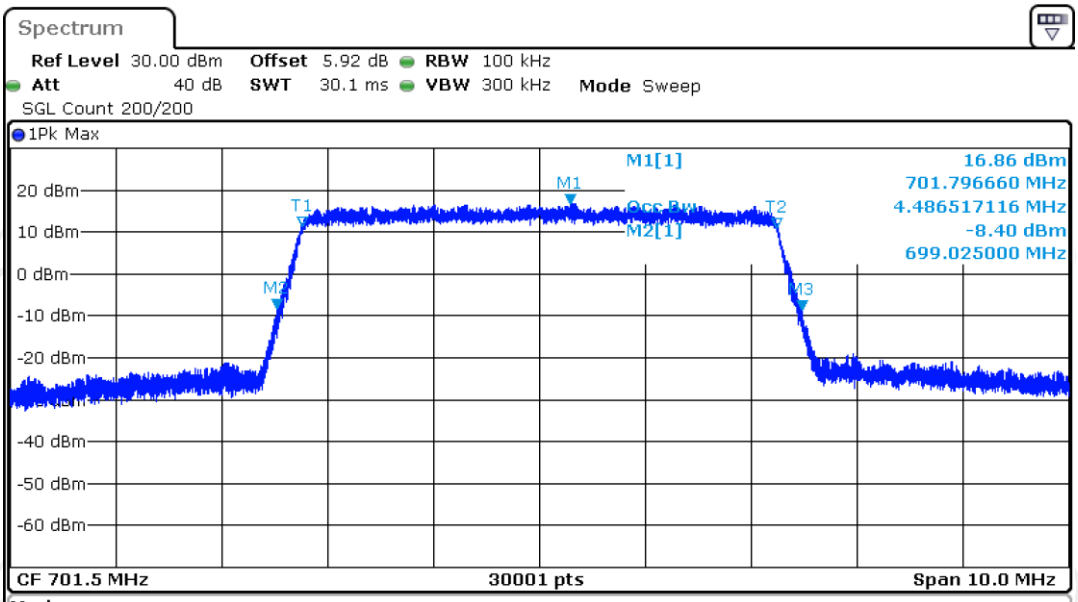
Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	701.79666 MHz	16.86 dBm		
T1		1	699.254742 MHz	11.22 dBm	Occ Bw	4.486517116 MHz
T2		1	703.741259 MHz	11.11 dBm		
M2		1	699.025 MHz	-8.40 dBm		
M3		1	703.975 MHz	-8.61 dBm		

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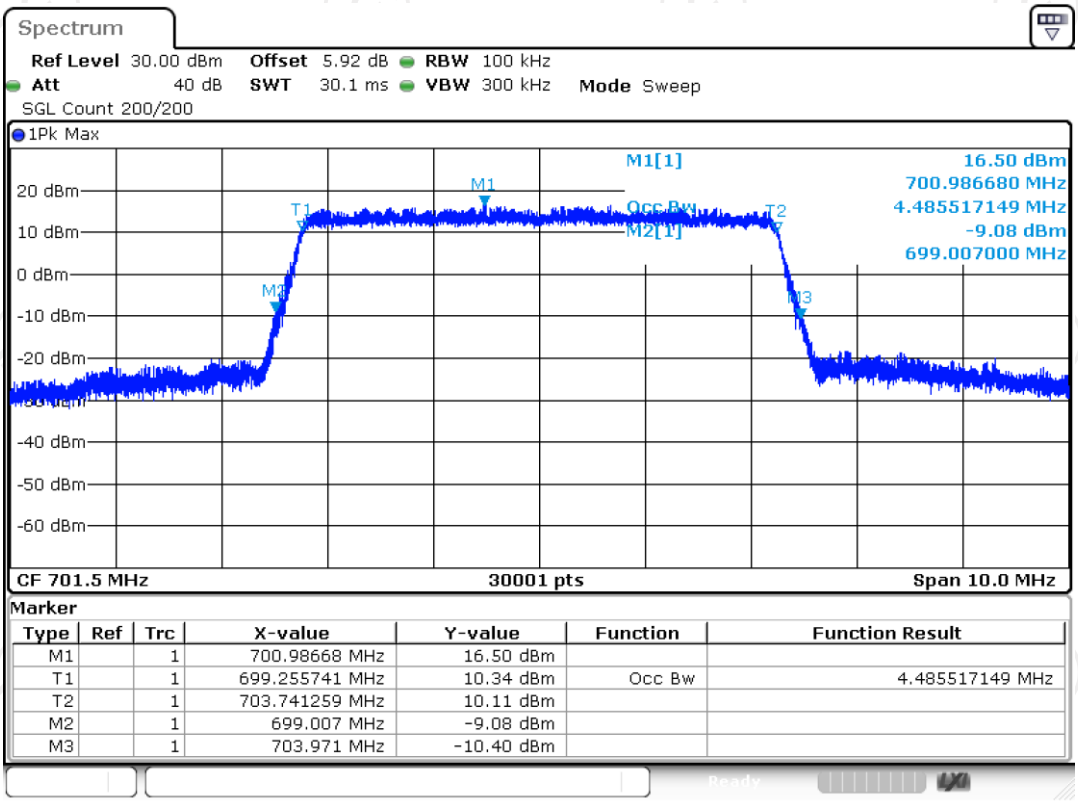
Band12 16QAM BW=5MHz Channel=23035 RB Size=25 Position=#0



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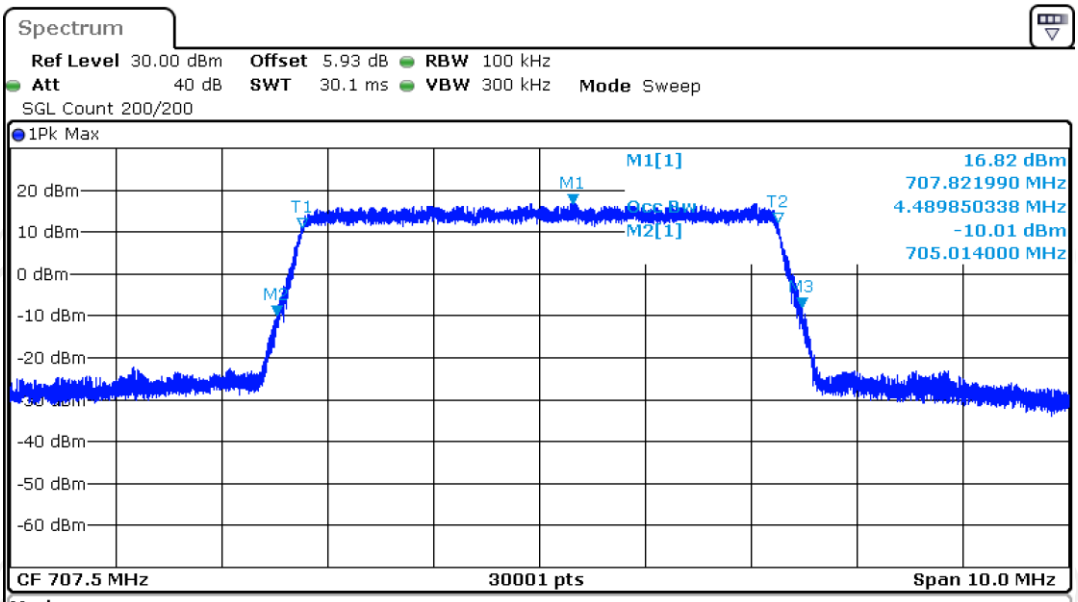
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	700.98668 MHz	16.50 dBm		
T1		1	699.255741 MHz	10.34 dBm	Occ Bw	4.485517149 MHz
T2		1	703.741259 MHz	10.11 dBm		
M2		1	699.007 MHz	-9.08 dBm		
M3		1	703.971 MHz	-10.40 dBm		

Date: 10.OCT.2023 13:23:07

Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0

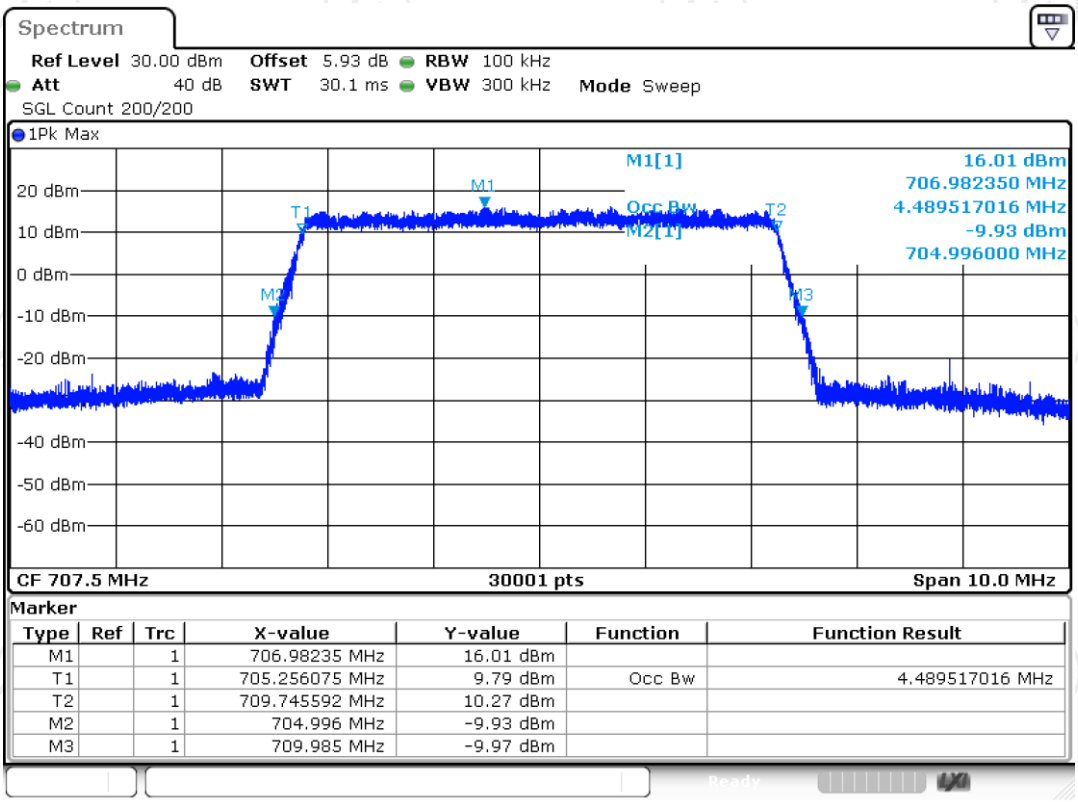


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	707.82199 MHz	16.82 dBm		
T1		1	705.258408 MHz	10.90 dBm	Occ Bw	4.489850338 MHz
T2		1	709.748258 MHz	12.28 dBm		
M2		1	705.014 MHz	-10.01 dBm		
M3		1	709.985 MHz	-7.94 dBm		

Date: 10.OCT.2023 13:23:25

Band12 16QAM BW=5MHz Channel=23095 RB Size=25 Position=#0

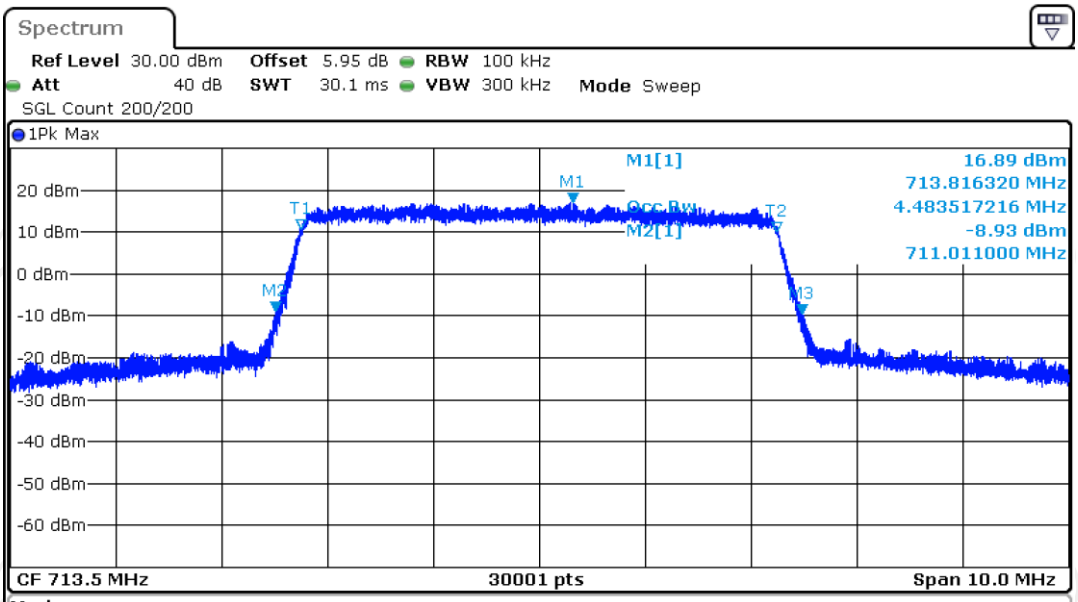


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.98235 MHz	16.01 dBm		
T1		1	705.256075 MHz	9.79 dBm	Occ Bw	4.489517016 MHz
T2		1	709.745592 MHz	10.27 dBm		
M2		1	704.996 MHz	-9.93 dBm		
M3		1	709.985 MHz	-9.97 dBm		

Date: 10.OCT.2023 13:23:42

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

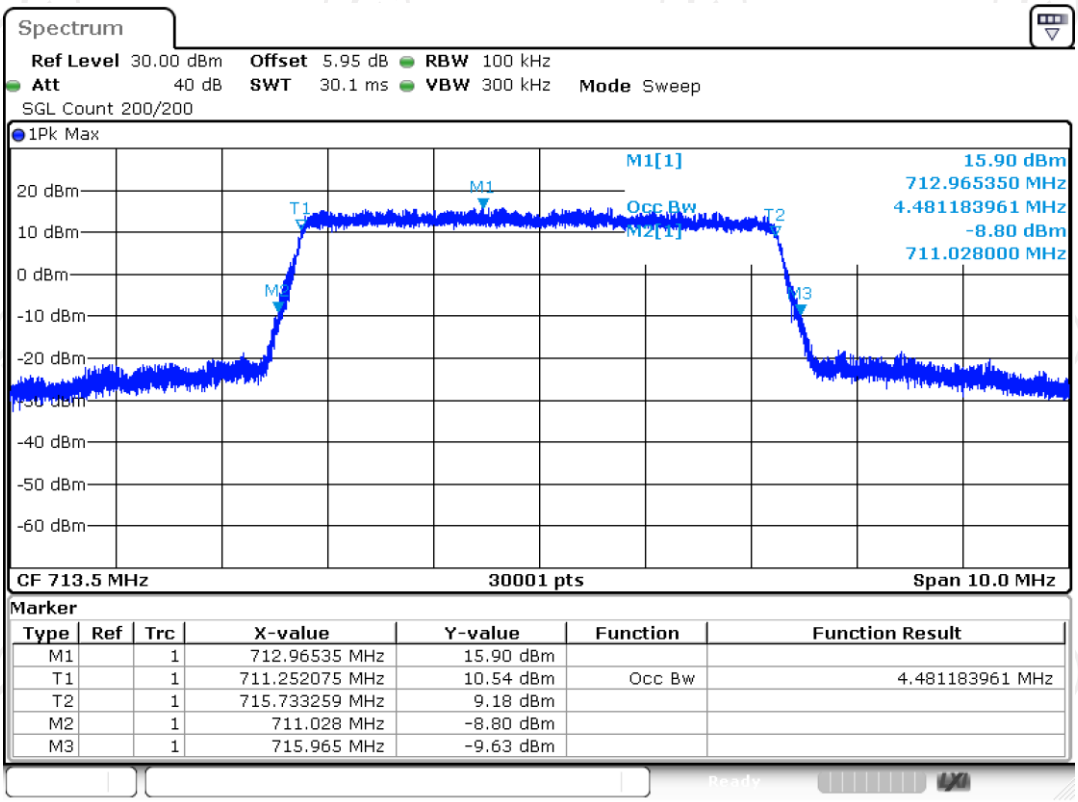


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	713.81632 MHz	16.89 dBm		
T1		1	711.252075 MHz	10.74 dBm	Occ Bw	4.483517216 MHz
T2		1	715.735592 MHz	9.99 dBm		
M2		1	711.011 MHz	-8.93 dBm		
M3		1	715.981 MHz	-9.62 dBm		

Date: 10.OCT.2023 13:23:59

Band12 16QAM BW=5MHz Channel=23155 RB Size=25 Position=#0

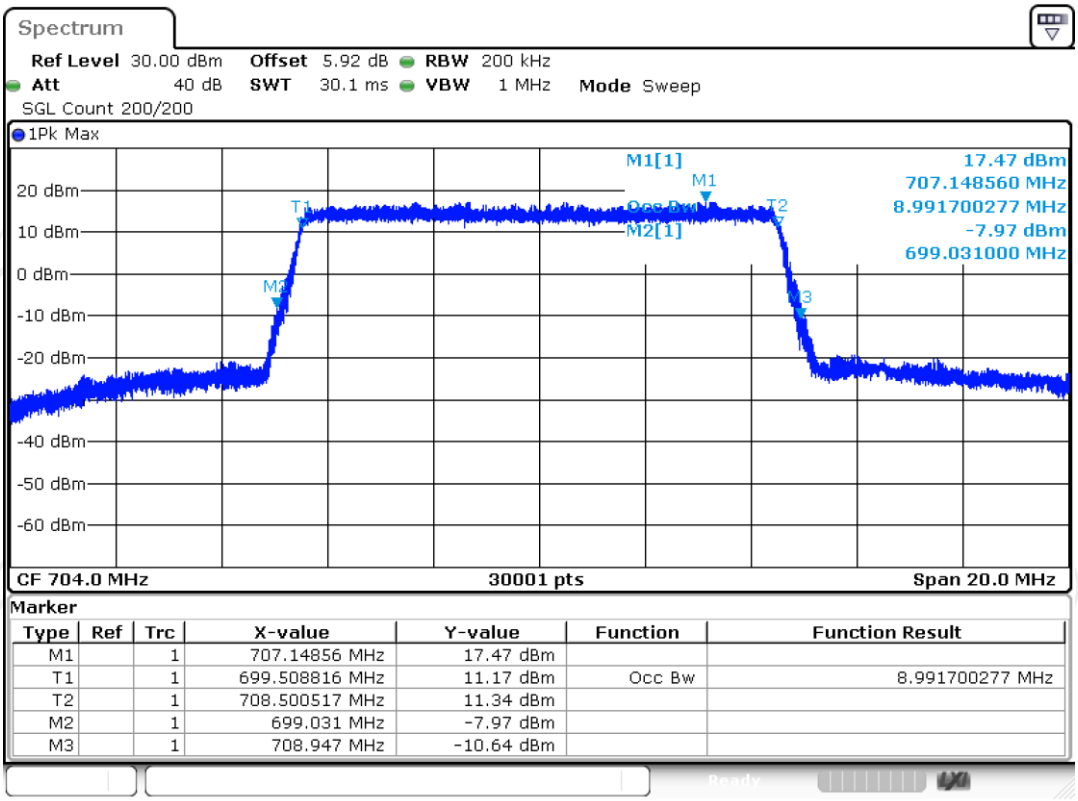


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	712.96535 MHz	15.90 dBm		
T1		1	711.252075 MHz	10.54 dBm	Occ Bw	4.481183961 MHz
T2		1	715.733259 MHz	9.18 dBm		
M2		1	711.028 MHz	-8.80 dBm		
M3		1	715.965 MHz	-9.63 dBm		

Date: 10.OCT.2023 13:24:16

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

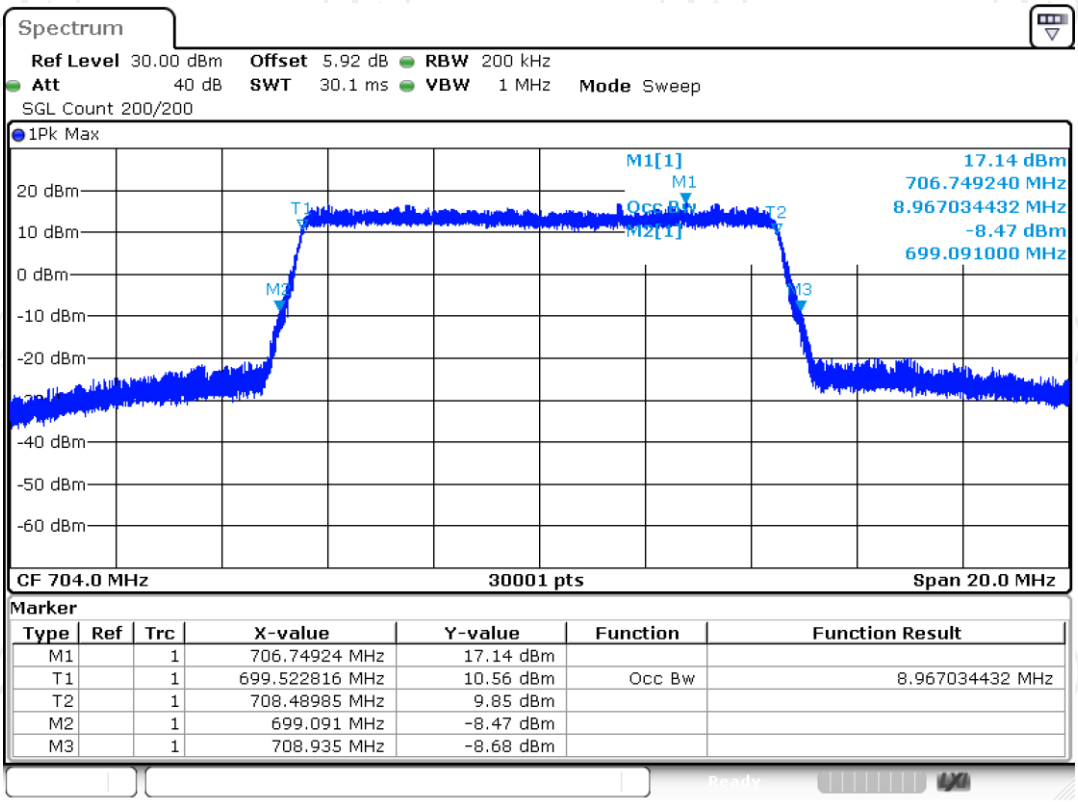


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	707.14856 MHz	17.47 dBm		
T1		1	699.508816 MHz	11.17 dBm	Occ Bw	8.991700277 MHz
T2		1	708.500517 MHz	11.34 dBm		
M2		1	699.031 MHz	-7.97 dBm		
M3		1	708.947 MHz	-10.64 dBm		

Date: 10.OCT.2023 13:24:36

Band12 16QAM BW=10MHz Channel=23060 RB Size=50 Position=#0

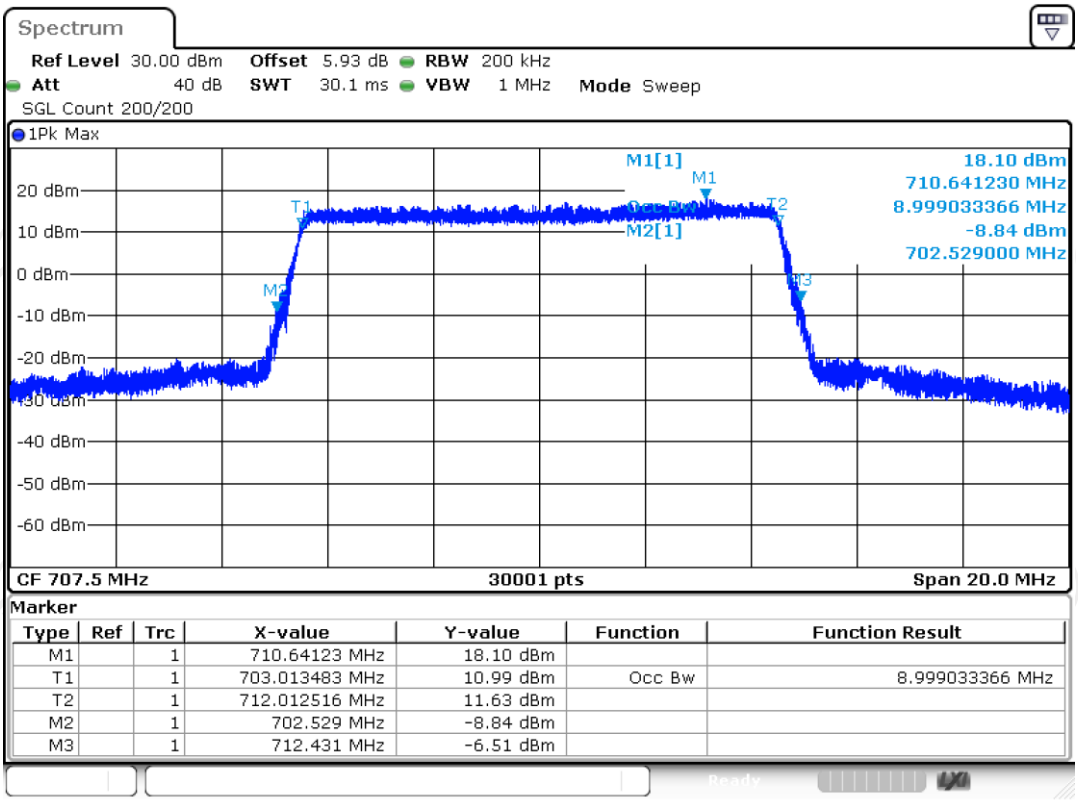


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.74924 MHz	17.14 dBm		
T1		1	699.522816 MHz	10.56 dBm	Occ Bw	8.967034432 MHz
T2		1	708.48985 MHz	9.85 dBm		
M2		1	699.091 MHz	-8.47 dBm		
M3		1	708.935 MHz	-8.68 dBm		

Date: 10.OCT.2023 13:24:55

Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0

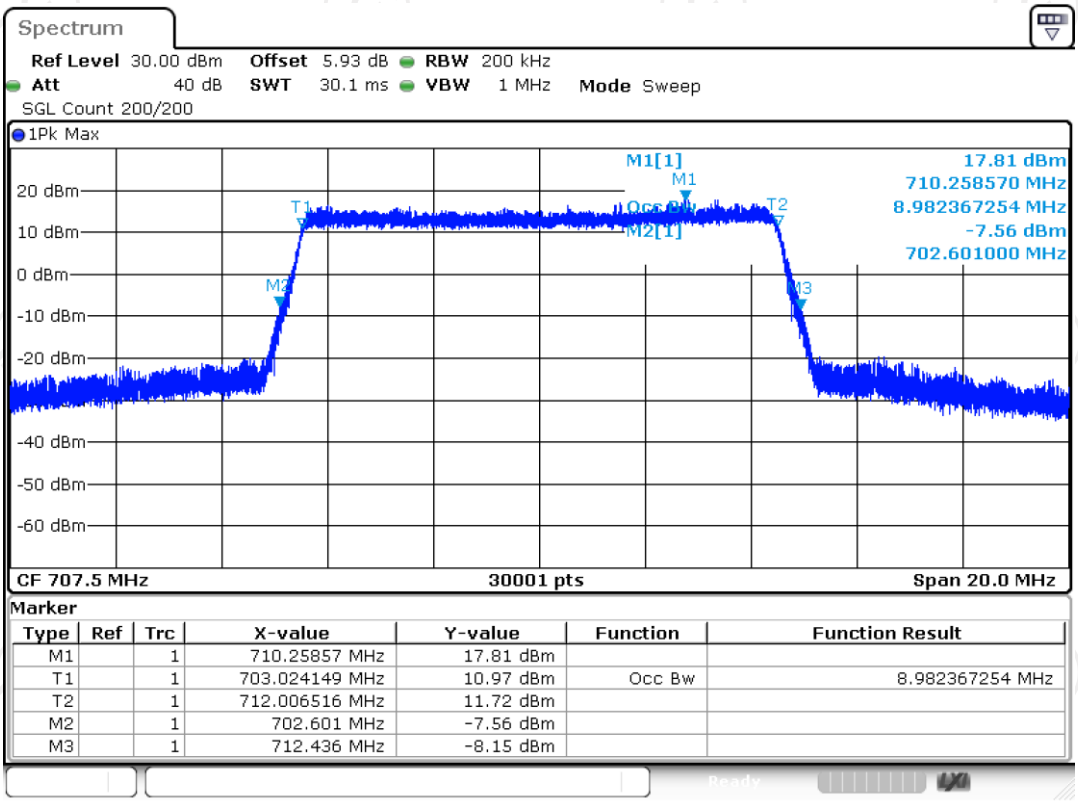


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	710.64123 MHz	18.10 dBm		
T1		1	703.013483 MHz	10.99 dBm	Occ Bw	8.999033366 MHz
T2		1	712.012516 MHz	11.63 dBm		
M2		1	702.529 MHz	-8.84 dBm		
M3		1	712.431 MHz	-6.51 dBm		

Date: 10.OCT.2023 13:25:14

Band12 16QAM BW=10MHz Channel=23095 RB Size=50 Position=#0

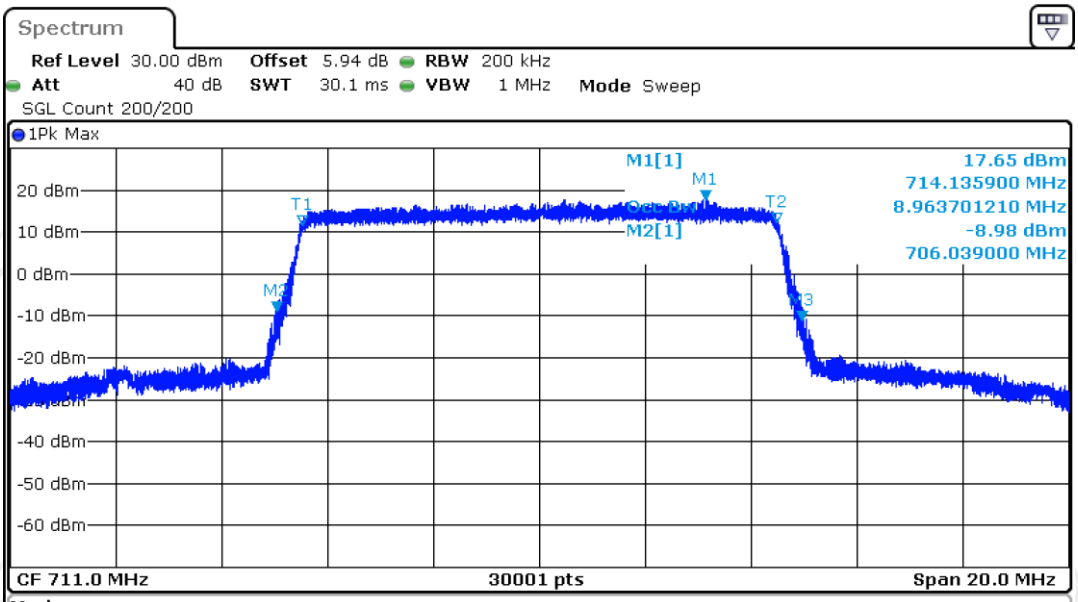


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	710.25857 MHz	17.81 dBm		
T1		1	703.024149 MHz	10.97 dBm	Occ Bw	8.982367254 MHz
T2		1	712.006516 MHz	11.72 dBm		
M2		1	702.601 MHz	-7.56 dBm		
M3		1	712.436 MHz	-8.15 dBm		

Date: 10.OCT.2023 13:25:33

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

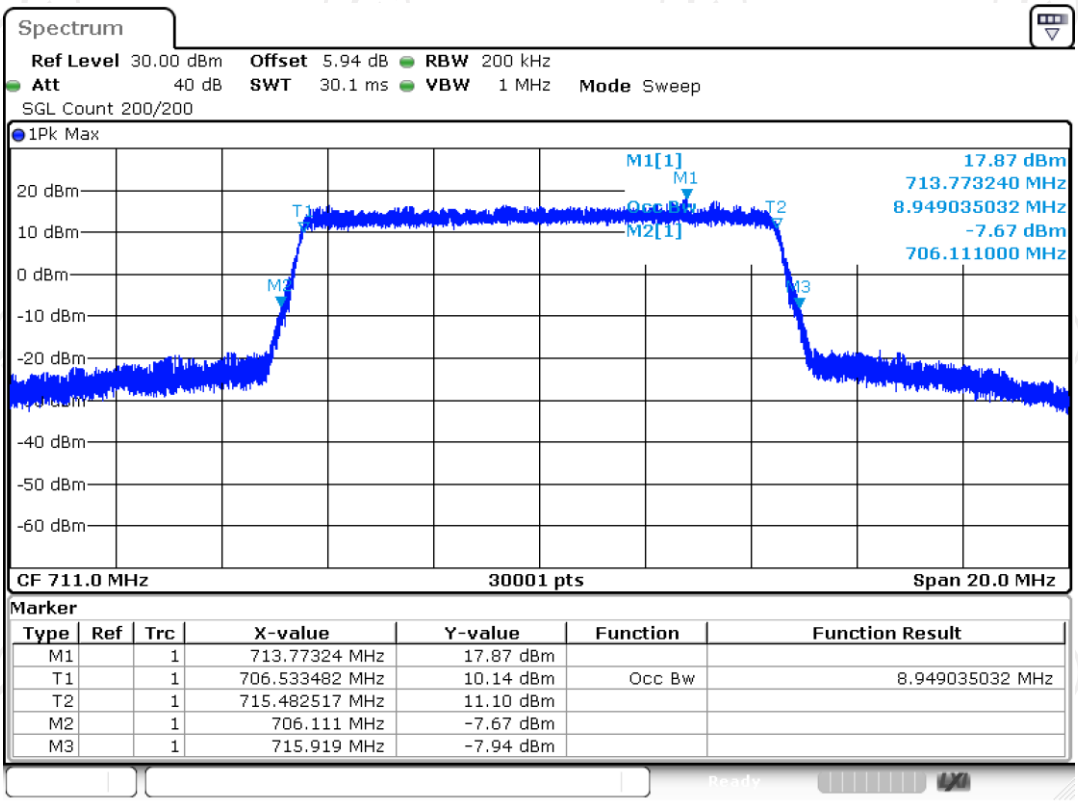


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	714.1359 MHz	17.65 dBm		
T1		1	706.523483 MHz	11.51 dBm	Occ Bw	8.96370121 MHz
T2		1	715.487184 MHz	12.20 dBm		
M2		1	706.039 MHz	-8.98 dBm		
M3		1	715.965 MHz	-11.21 dBm		

Date: 10.OCT.2023 13:25:51

Band12 16QAM BW=10MHz Channel=23130 RB Size=50 Position=#0



Marker

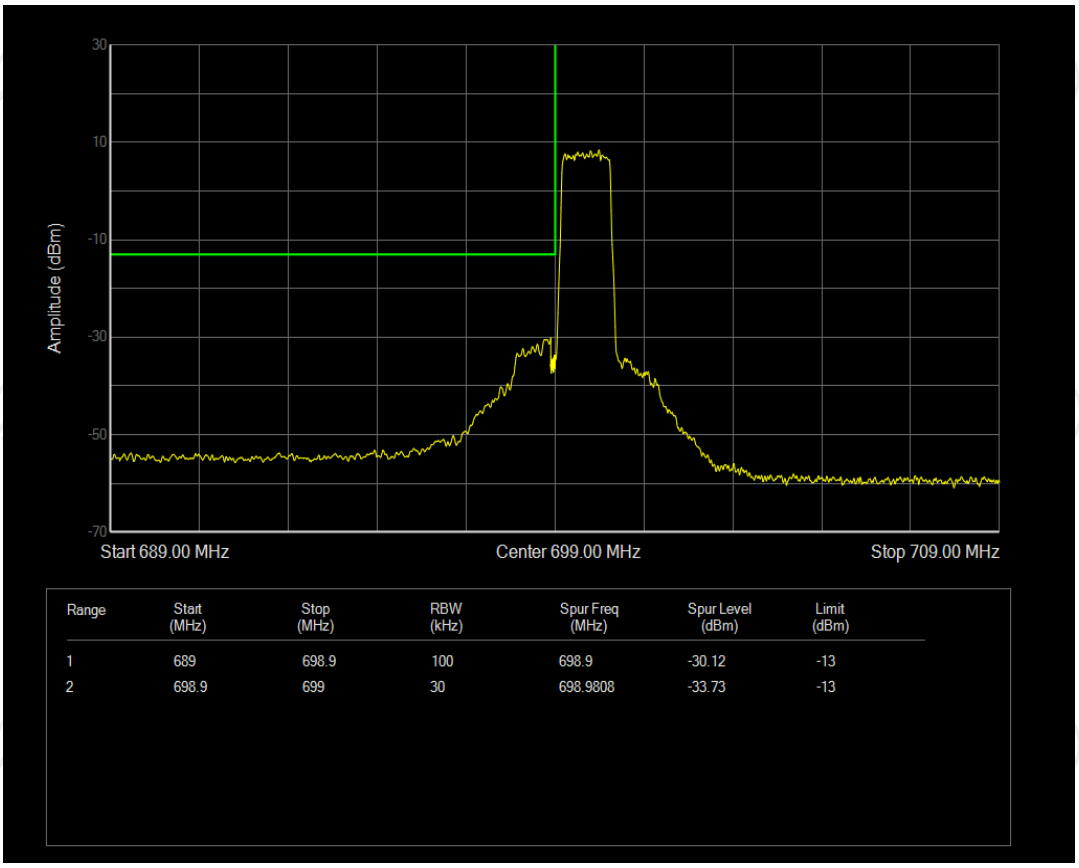
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	713.77324 MHz	17.87 dBm		
T1		1	706.533482 MHz	10.14 dBm	Occ Bw	8.949035032 MHz
T2		1	715.482517 MHz	11.10 dBm		
M2		1	706.111 MHz	-7.67 dBm		
M3		1	715.919 MHz	-7.94 dBm		

Date: 10.OCT.2023 13:26:10

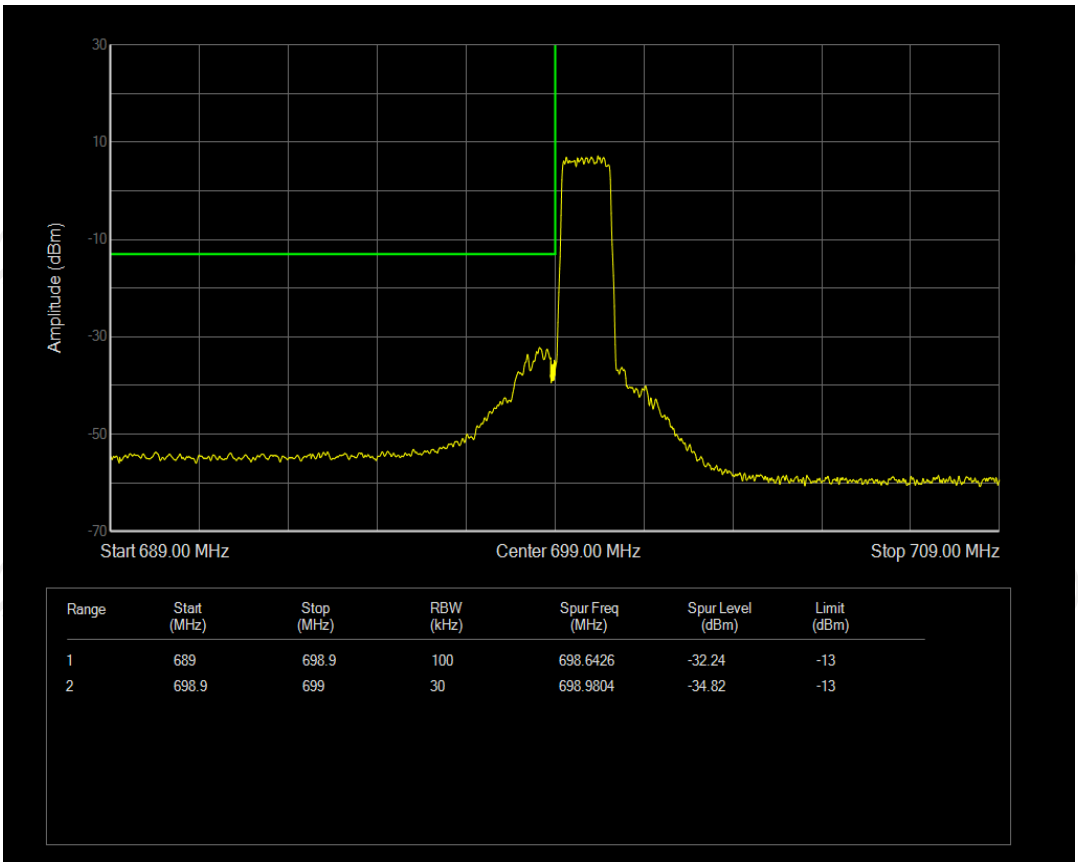
5 Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band12	1.4	23017	6	#0	QPSK	698.90	-30.12	-13	PASS
Band12	1.4	23017	6	#0	16QAM	698.64	-32.24	-13	PASS
Band12	1.4	23173	6	#0	QPSK	716.12	-17.99	-13	PASS
Band12	1.4	23173	6	#0	16QAM	716.11	-21.47	-13	PASS
Band12	3	23025	15	#0	QPSK	698.99	-25.76	-13	PASS
Band12	3	23025	15	#0	16QAM	698.99	-27.06	-13	PASS
Band12	3	23165	15	#0	QPSK	716.24	-22.39	-13	PASS
Band12	3	23165	15	#0	16QAM	716.00	-25.26	-13	PASS
Band12	5	23035	25	#0	QPSK	699.00	-33.38	-13	PASS
Band12	5	23035	25	#0	16QAM	698.90	-32.95	-13	PASS
Band12	5	23155	25	#0	QPSK	716.11	-26.96	-13	PASS
Band12	5	23155	25	#0	16QAM	716.22	-31.21	-13	PASS
Band12	10	23060	50	#0	QPSK	698.89	-36.28	-13	PASS
Band12	10	23060	50	#0	16QAM	698.88	-37.69	-13	PASS
Band12	10	23130	50	#0	QPSK	716.21	-34.60	-13	PASS
Band12	10	23130	50	#0	16QAM	716.11	-33.76	-13	PASS

Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0

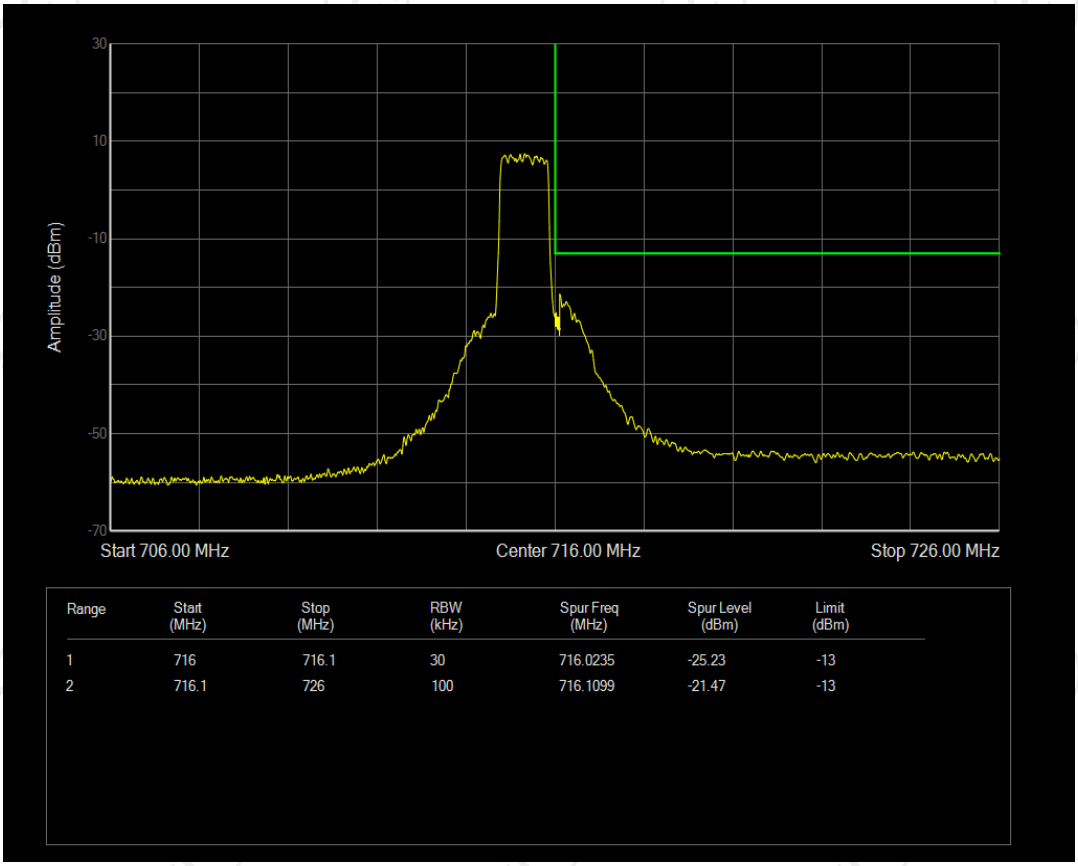


Band12 16QAM BW=1.4MHz Channel=23017 RB Size=6 Position=#0



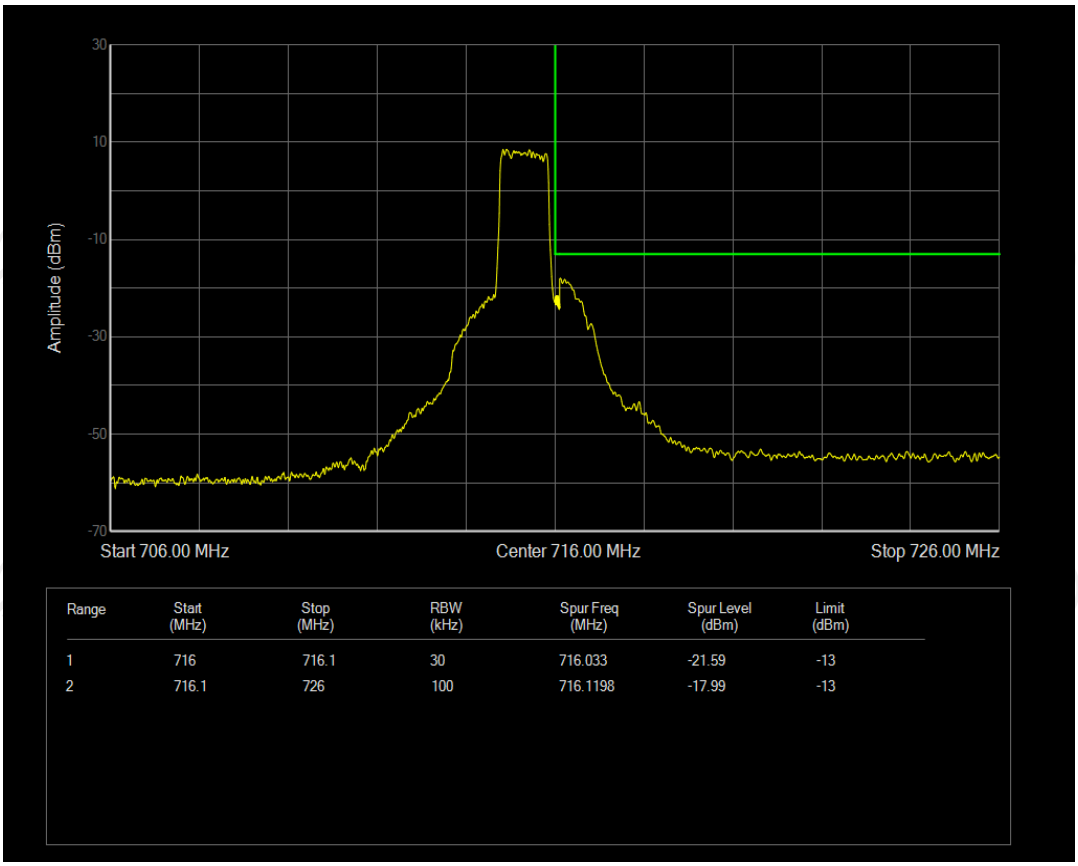
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.6426	-32.24	-13
2	698.9	699	30	698.9804	-34.82	-13

Band12 16QAM BW=1.4MHz Channel=23173 RB Size=6 Position=#0



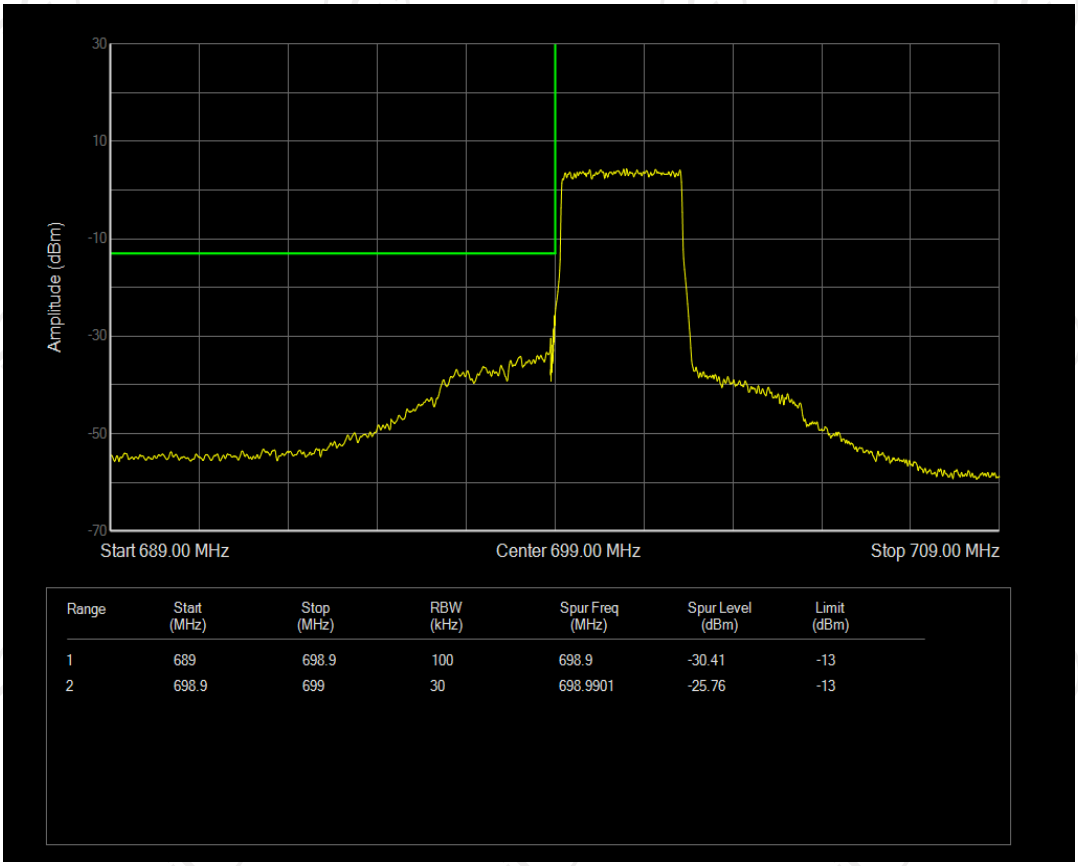
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0235	-25.23	-13
2	716.1	726	100	716.1099	-21.47	-13

Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0



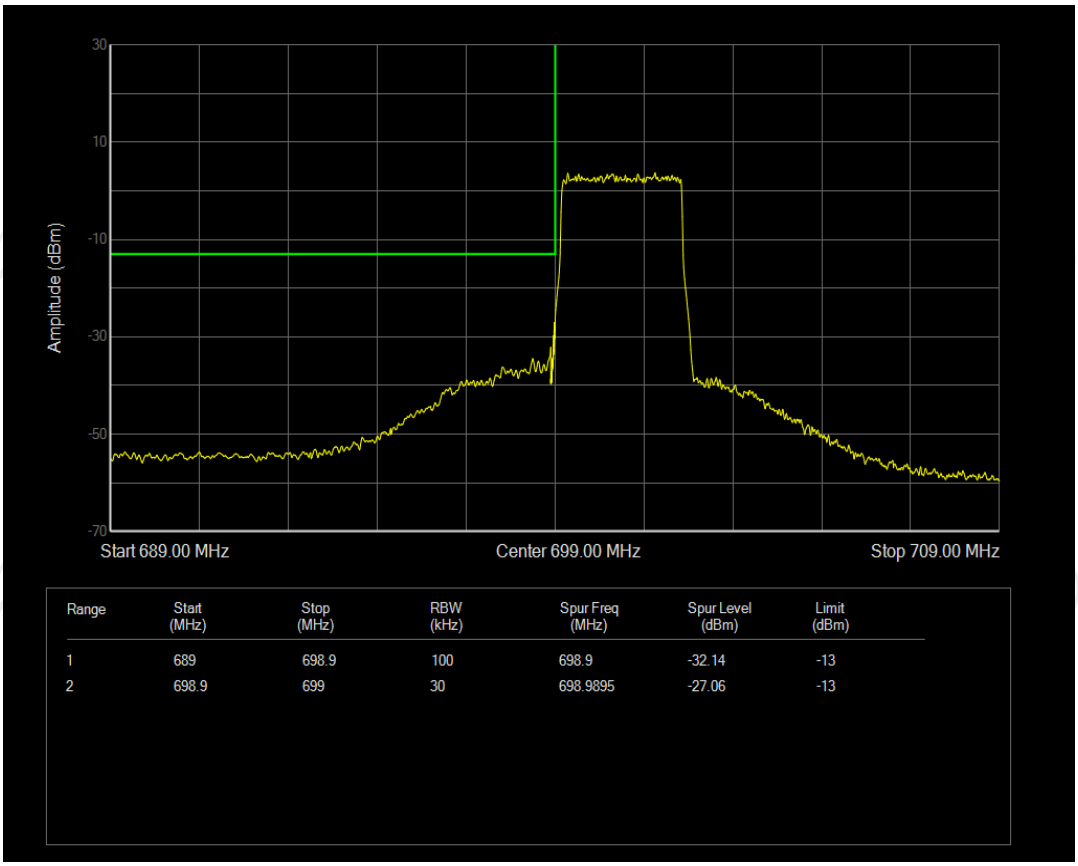
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.033	-21.59	-13
2	716.1	726	100	716.1198	-17.99	-13

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



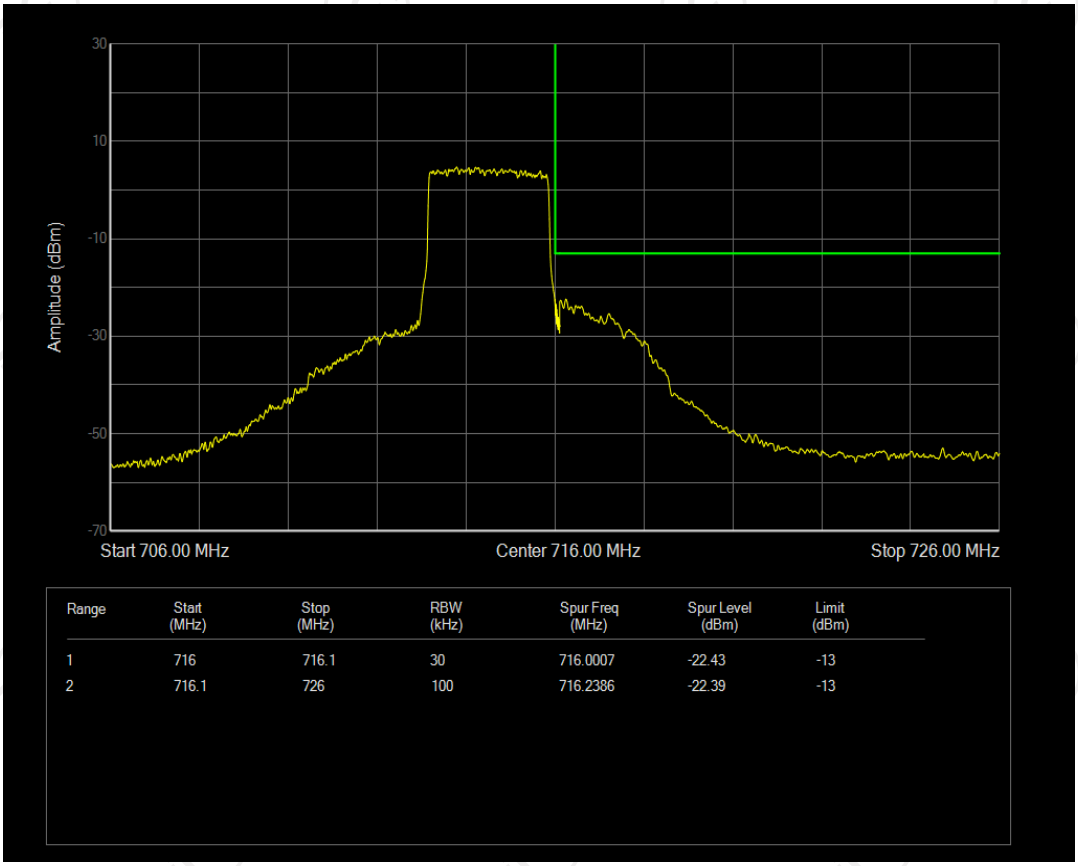
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-30.41	-13
2	698.9	699	30	698.9901	-25.76	-13

Band12 16QAM BW=3MHz Channel=23025 RB Size=15 Position=#0



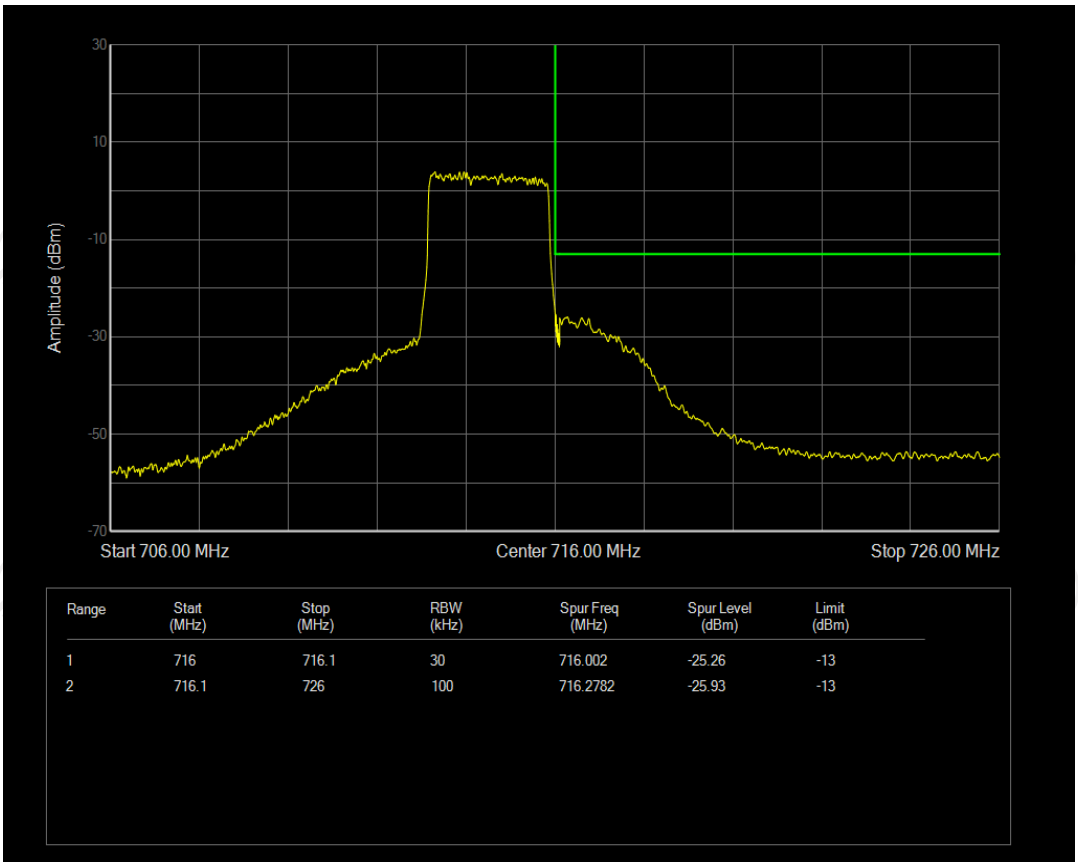
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-32.14	-13
2	698.9	699	30	698.9895	-27.06	-13

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



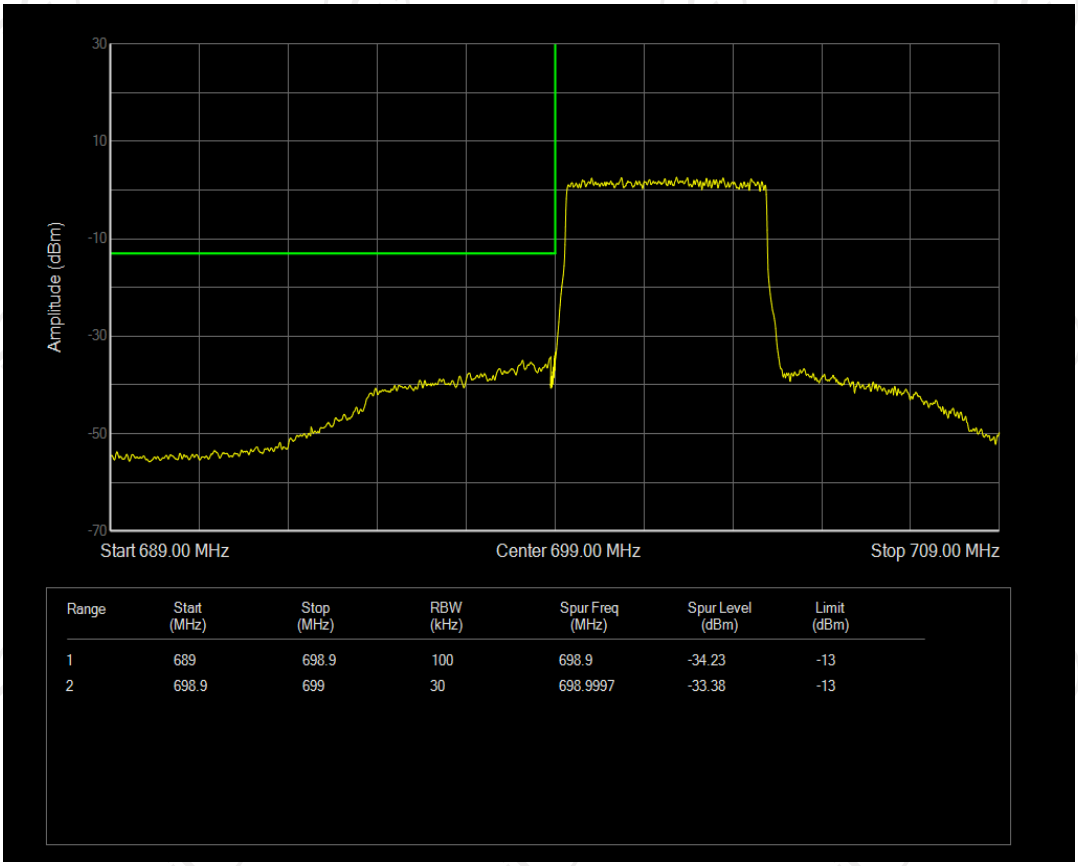
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0007	-22.43	-13
2	716.1	726	100	716.2386	-22.39	-13

Band12 16QAM 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	716.002	-25.26	-13
2	716.1	726	100	716.2782	-25.93	-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	-34.23	-13
2	698.9	699	30	698.9997	-33.38	-13

Band12 16QAM BW=5MHz Channel=23035 RB Size=25 Position=#0