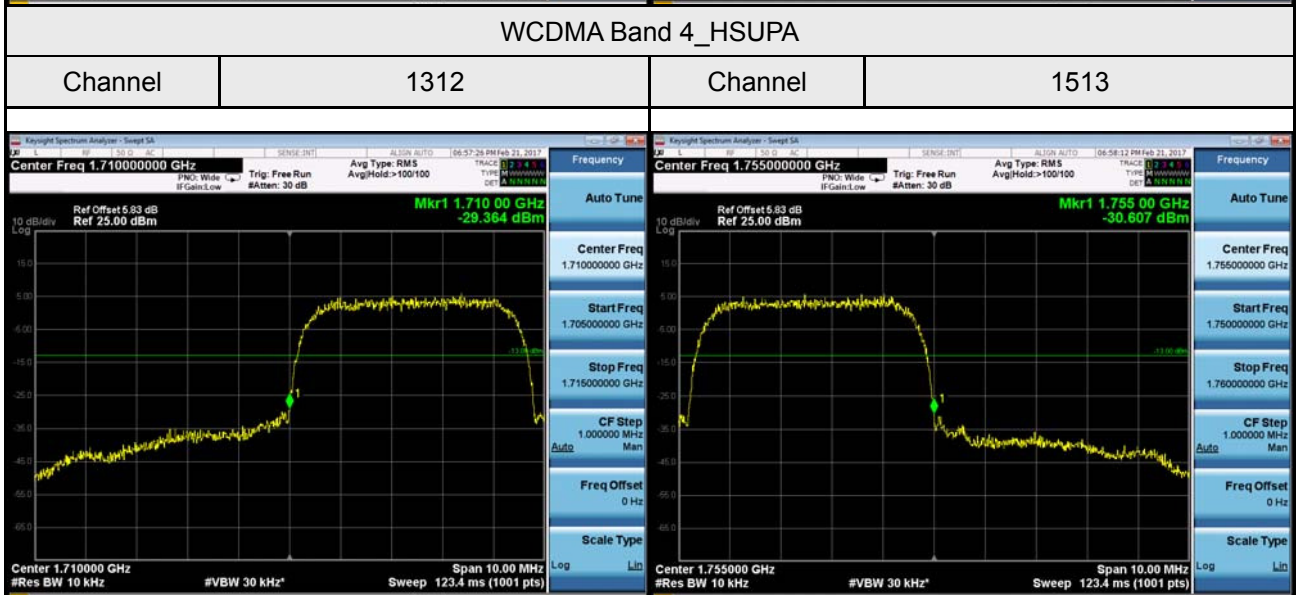
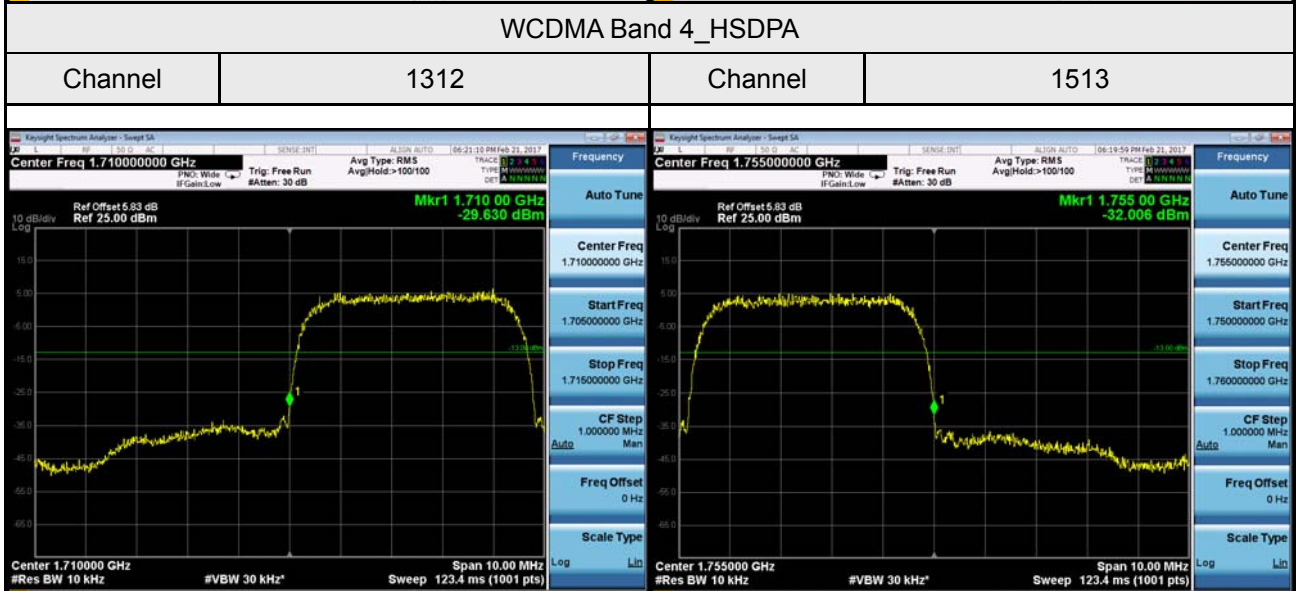
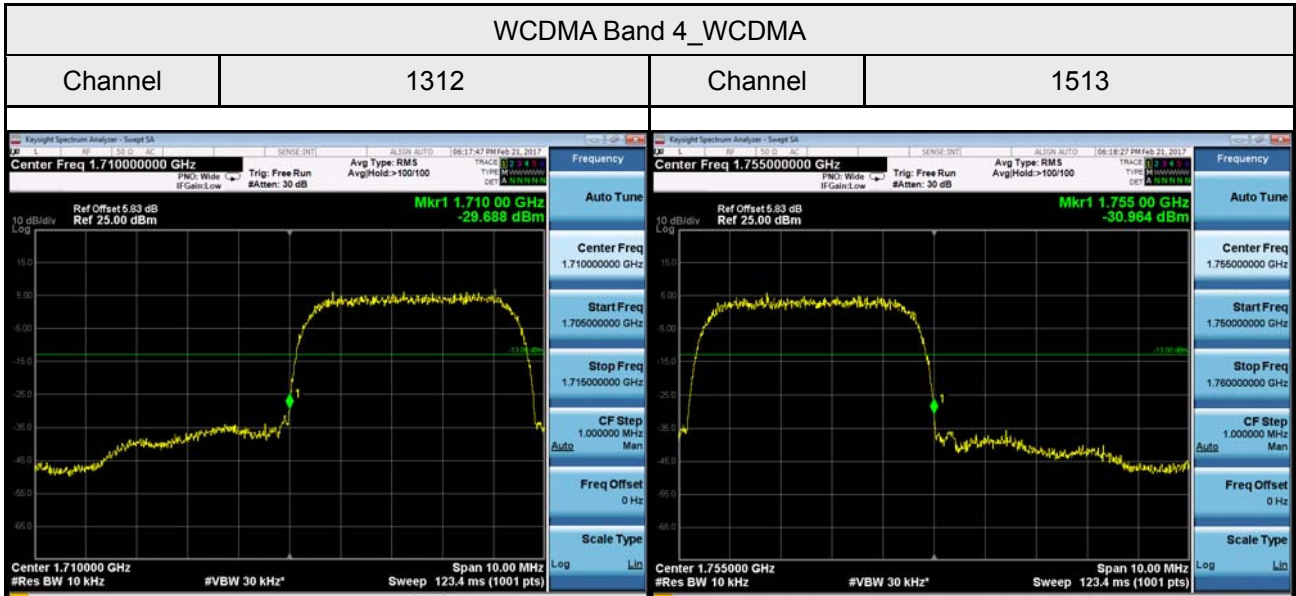
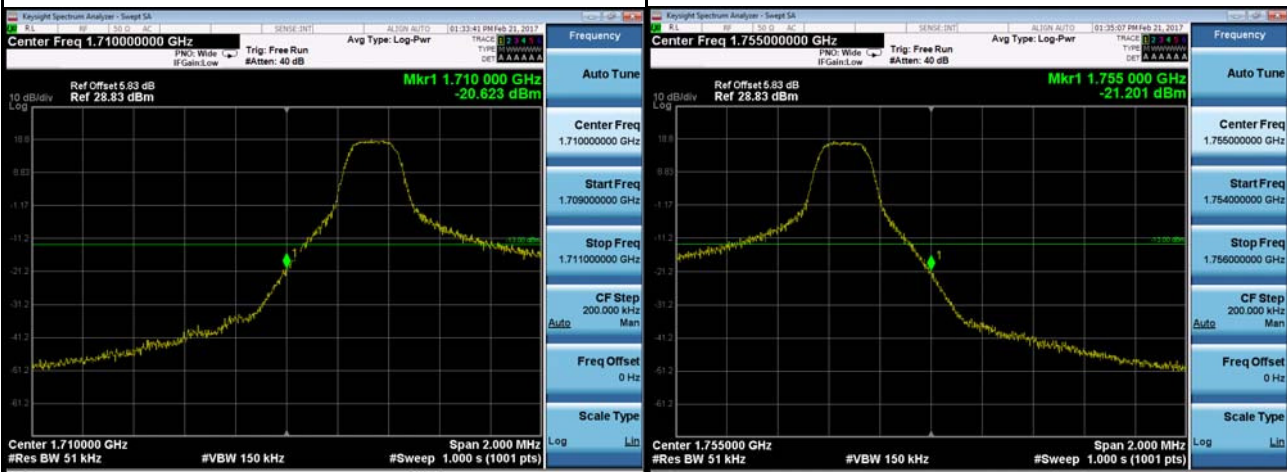


ATTACHMENT E - BAND EDGE



LTE Band 4_5M

1RB0		1RB24	
Channel	19975	Channel	20375



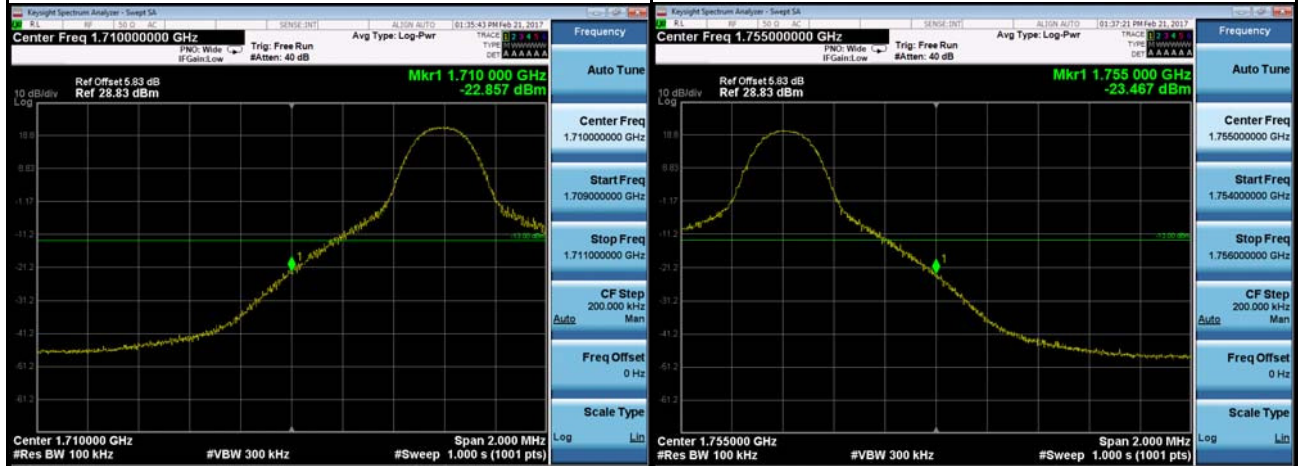
25RB0

Channel	19975	Channel	20375
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LTE Band 4_10M

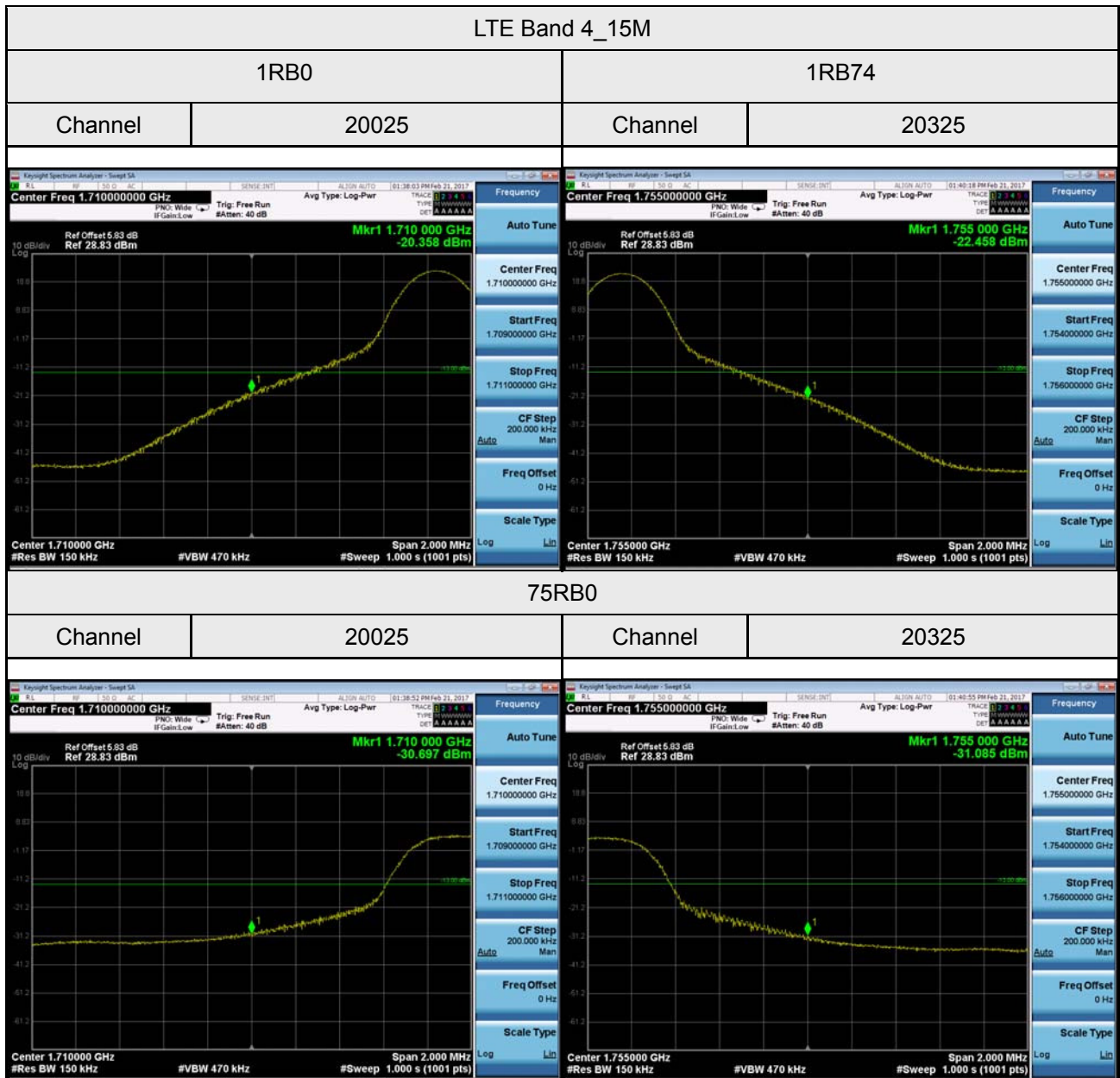
1RB0		1RB49	
Channel	20000	Channel	20350



50RB0

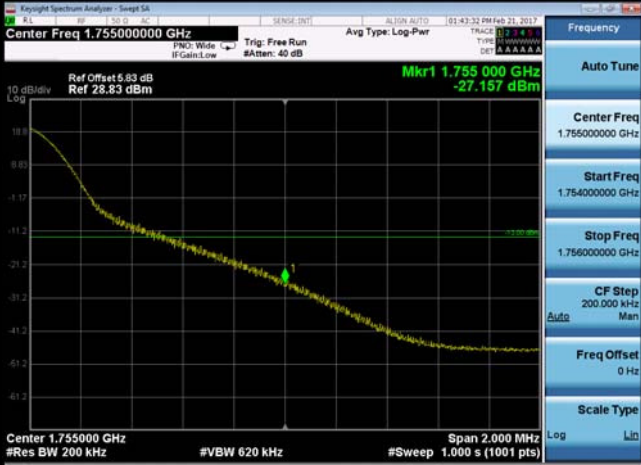
20000		20350	
Channel	20000	Channel	20350





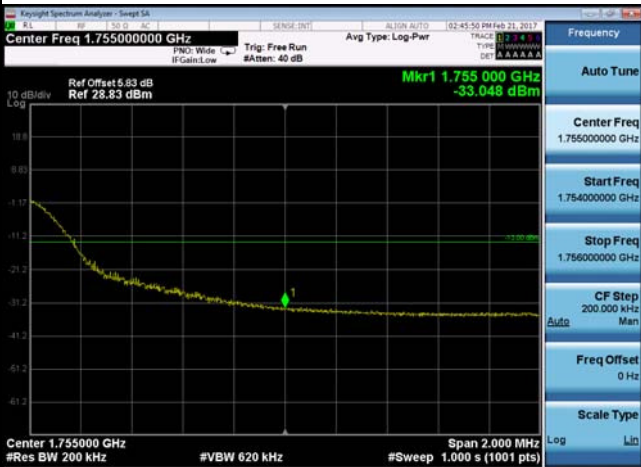
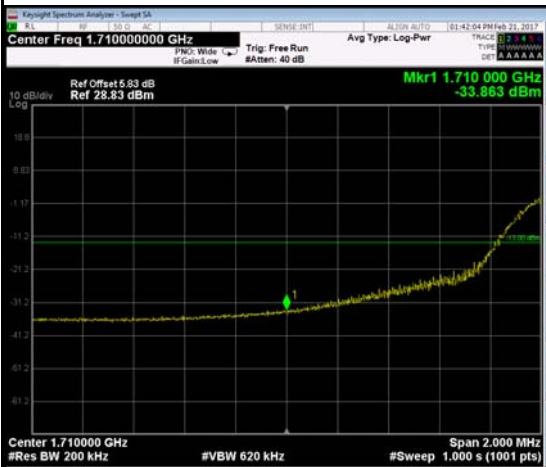
LTE Band 4_20M

1RB0		1RB99	
Channel	20050	Channel	20300



100RB0

100RB0		100RB0	
Channel	20050	Channel	20300



LTE Band 7_5M

1RB0

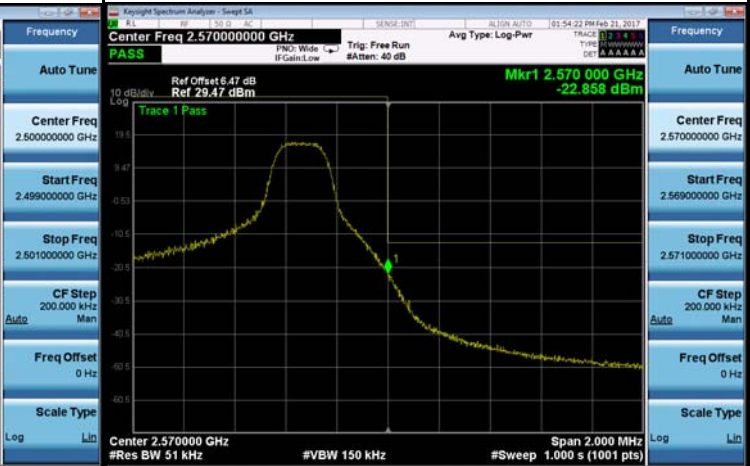
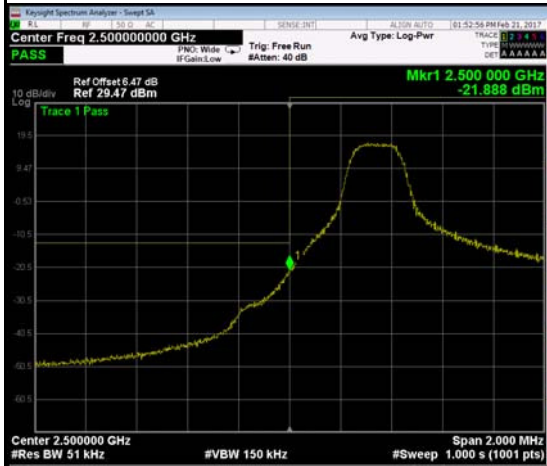
1RB24

Channel

20775

Channel

21425



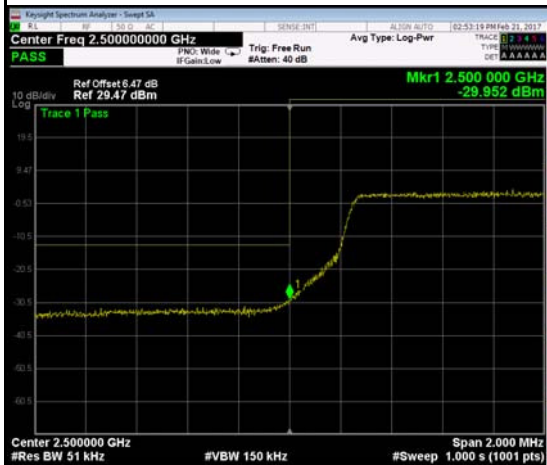
25RB0

Channel

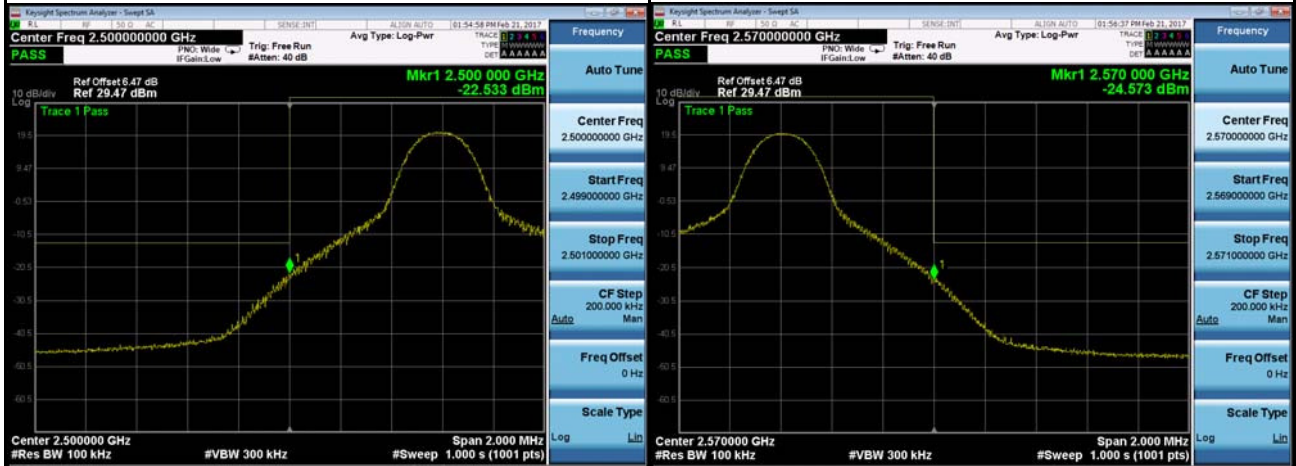
20775

Channel

21425



LTE Band 7_10M			
1RB0		1RB49	
Channel	20800	Channel	21400

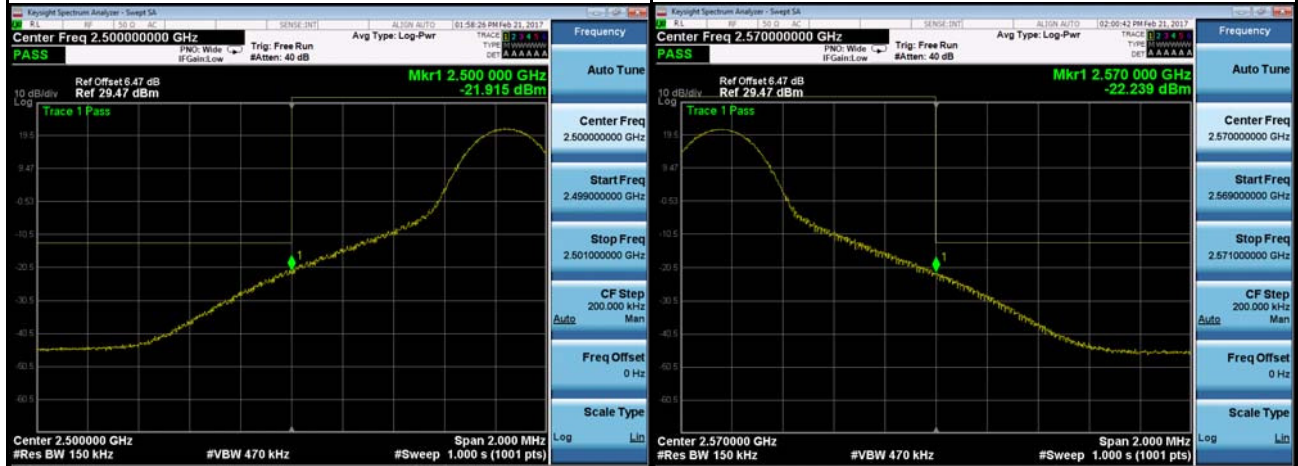


50RB0			
Channel	20800	Channel	21400



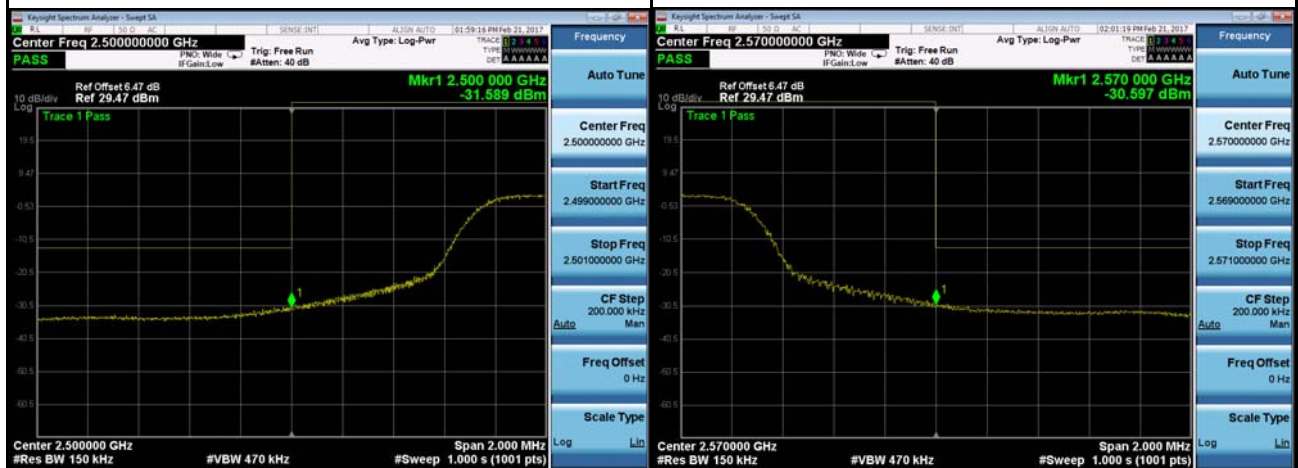
LTE Band 7_15M

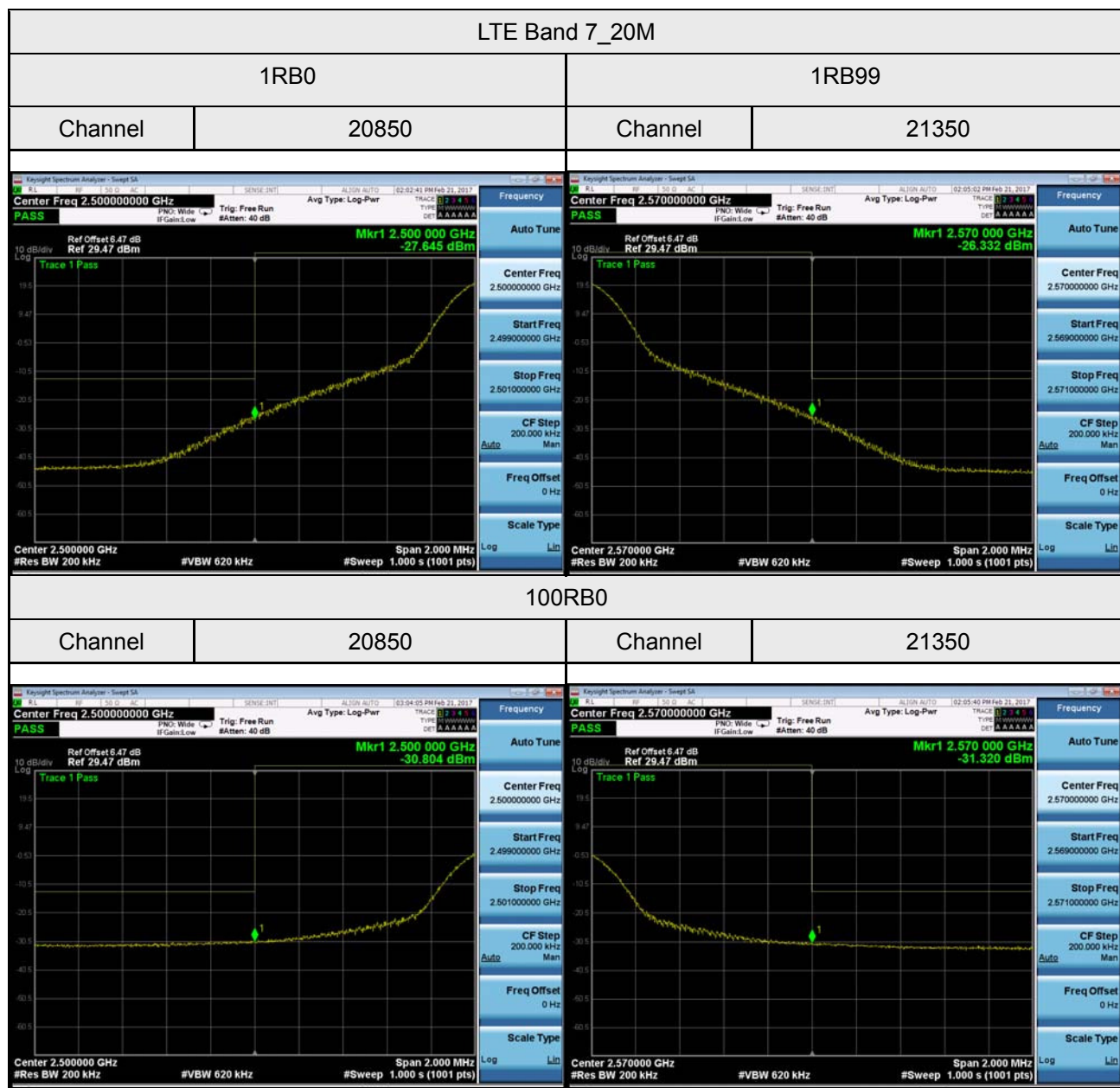
1RB0		1RB74	
Channel	20825	Channel	21375

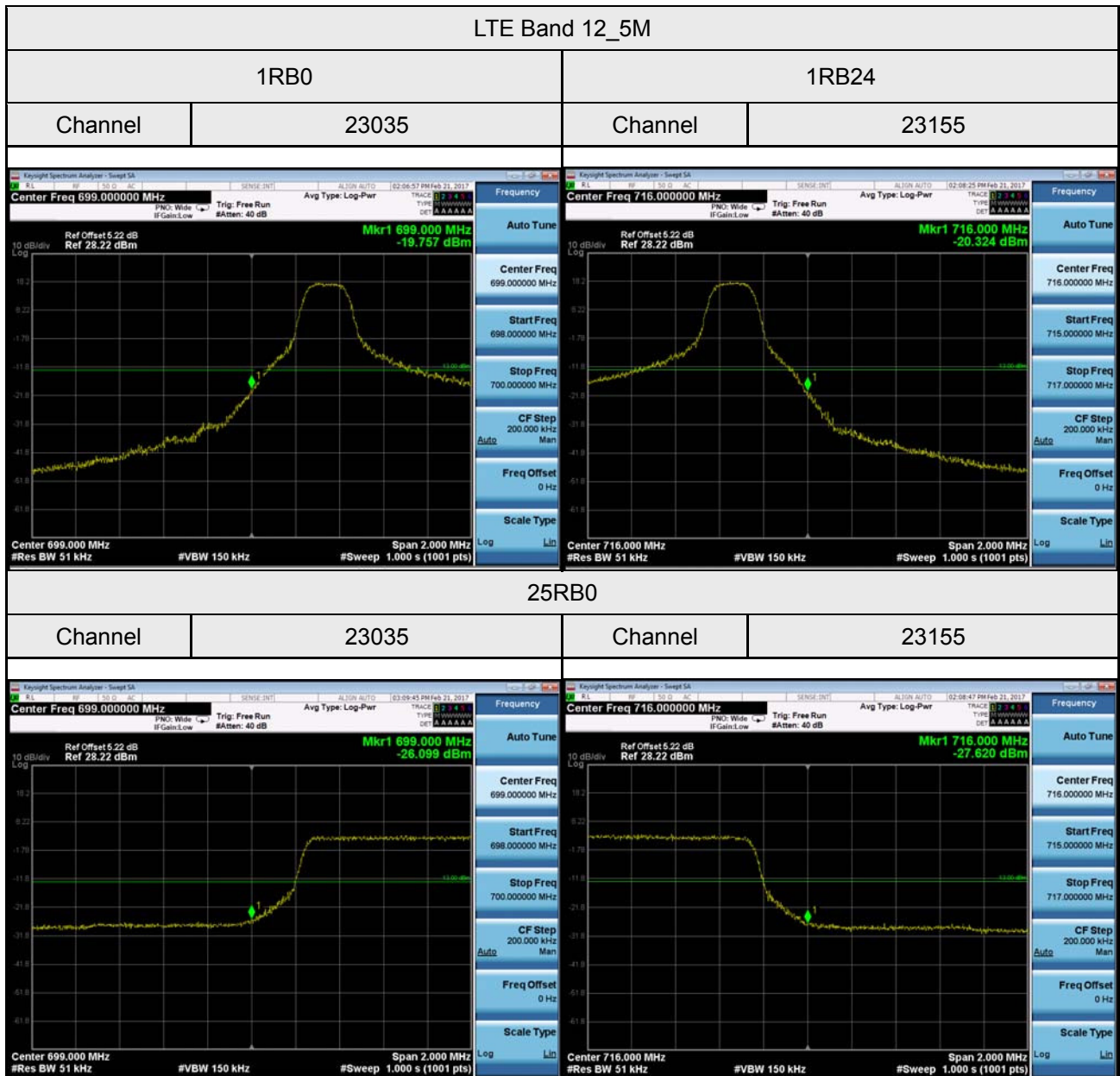


75RB0

Channel	20825	Channel	21375
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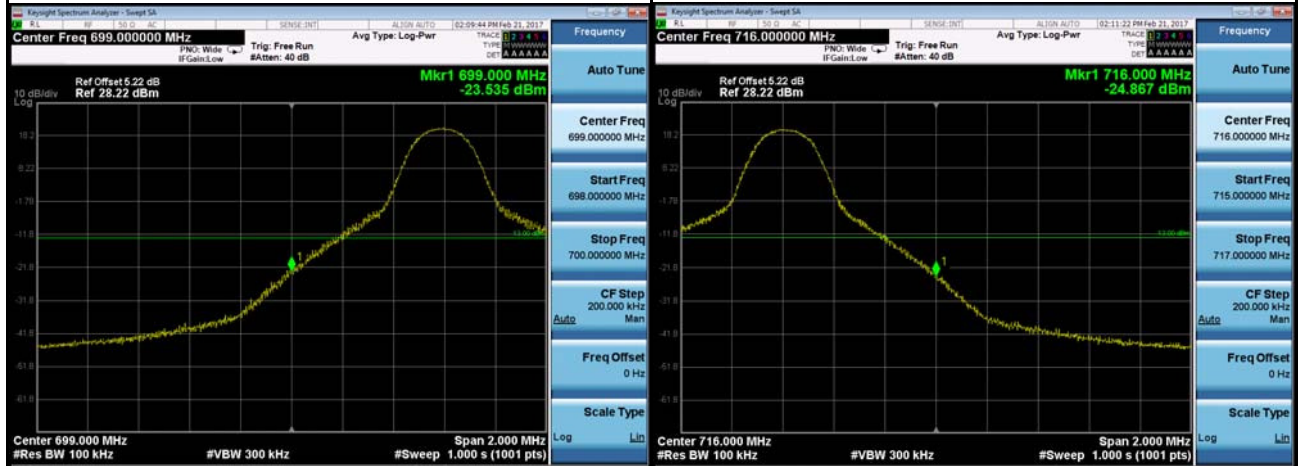






LTE Band 12_10M

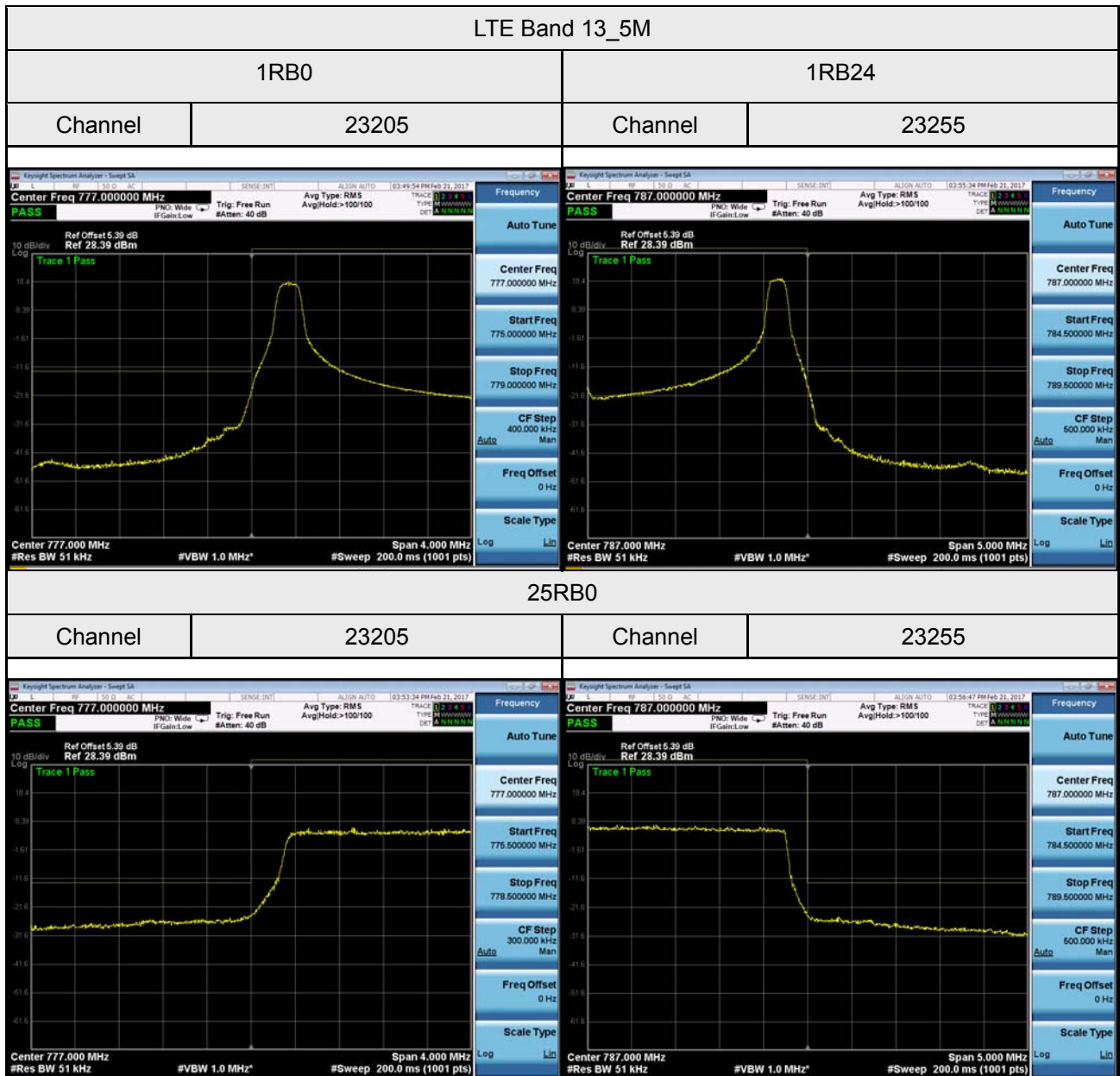
1RB0		1RB49	
Channel	23060	Channel	20350



50RB0

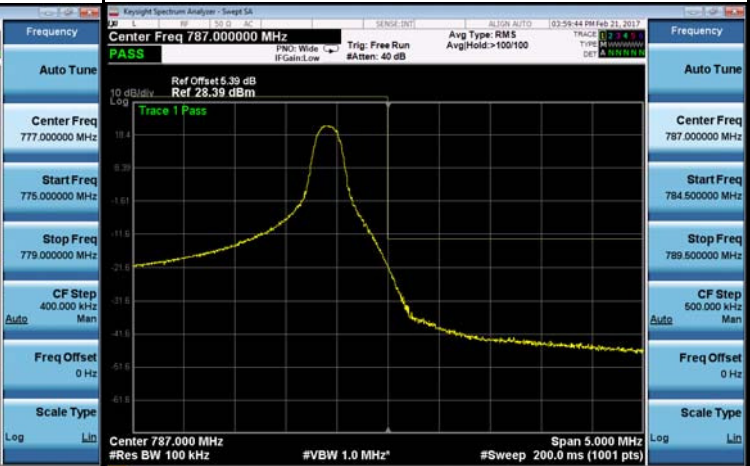
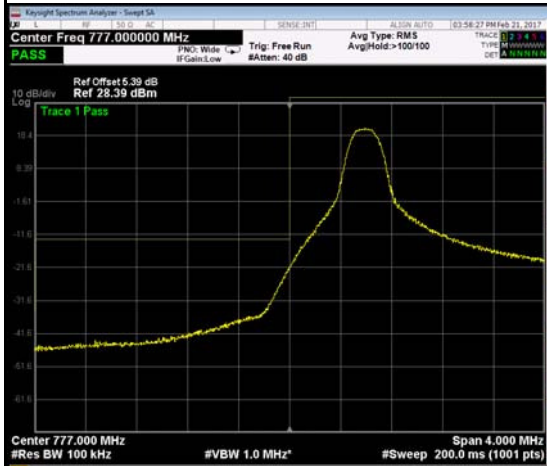
23060		20350	
Channel	23060	Channel	20350





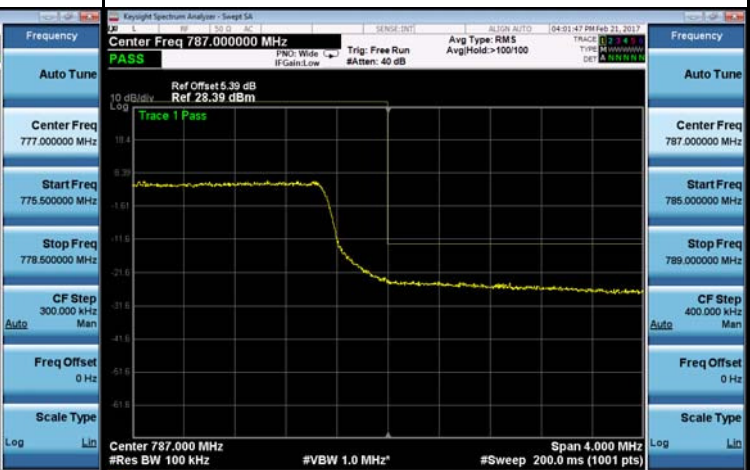
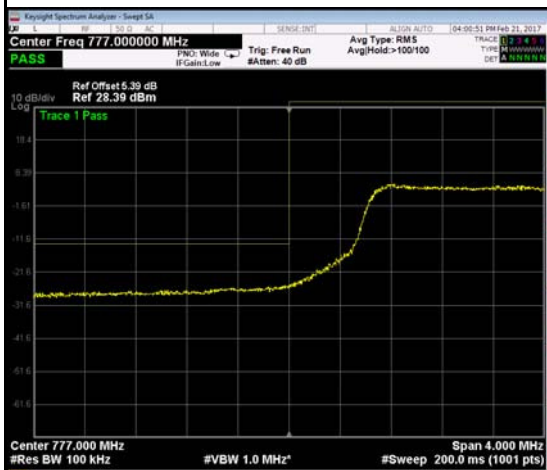
LTE Band 13_10M

1RB0		1RB49	
Channel	23230	Channel	23230



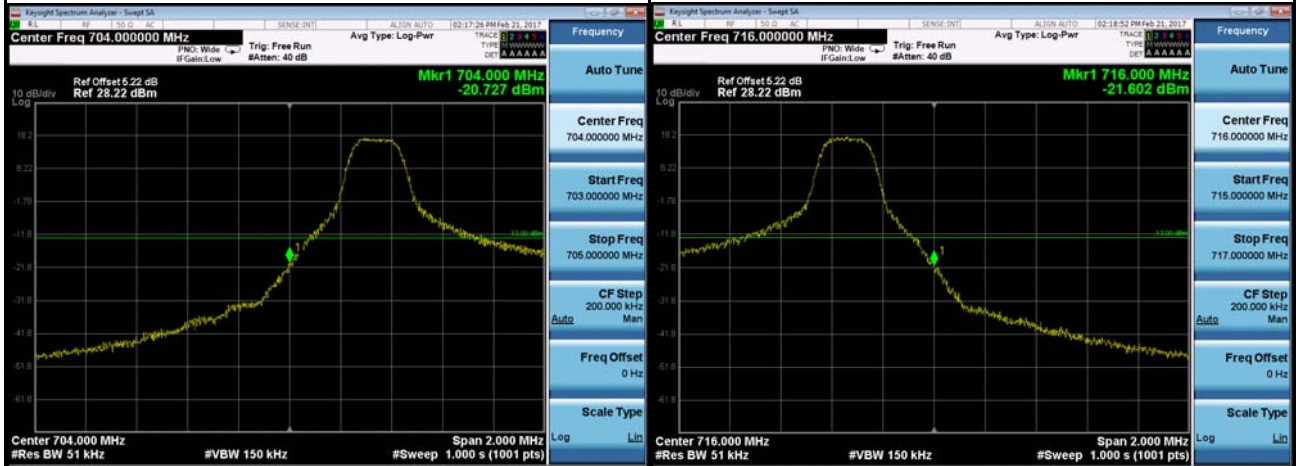
50RB0

Channel	23230	Channel	23230
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LTE Band 17_5M

1RB0		1RB24	
Channel	23755	Channel	23825



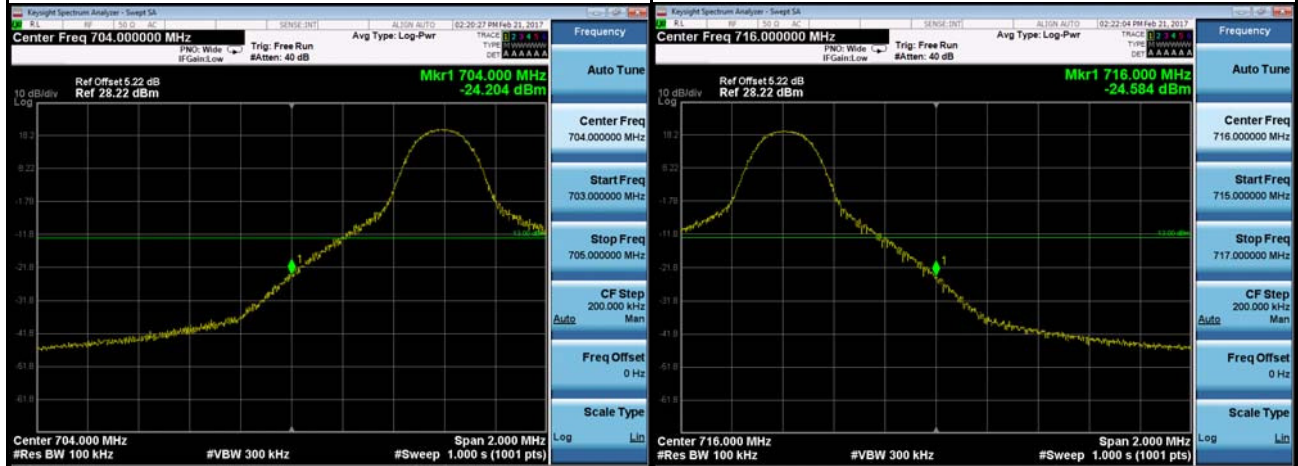
25RB0

23755		23825	
Channel	23755	Channel	23825



LTE Band 17_10M

1RB0		1RB49	
Channel	23780	Channel	23800



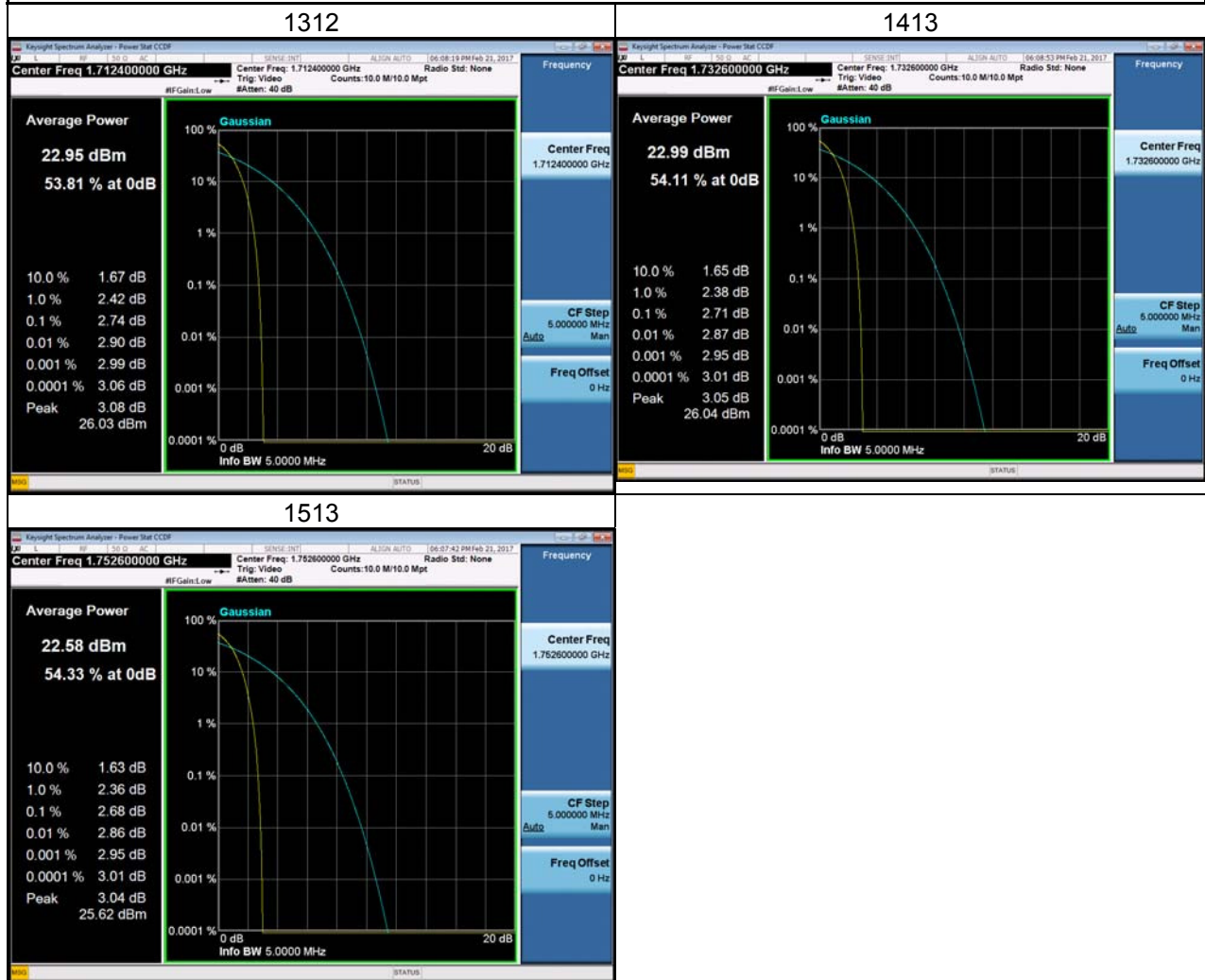
50RB0

Channel	23780	Channel	23800
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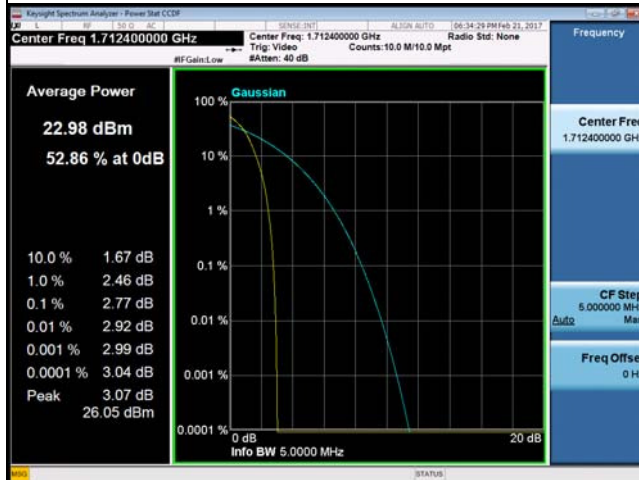
ATTACHMENT F - PEAK TO AVERAGE RATIO

WCDMA Band 4 Spectrum Plot_WCDMA

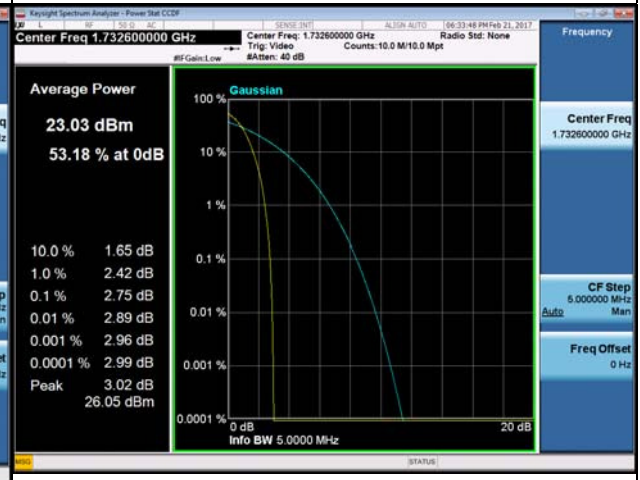


WCDMA Band 4 Spectrum Plot_HSDPA

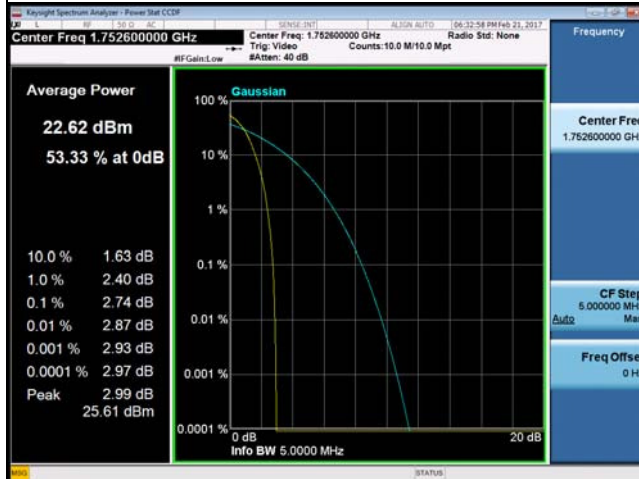
1312



1413

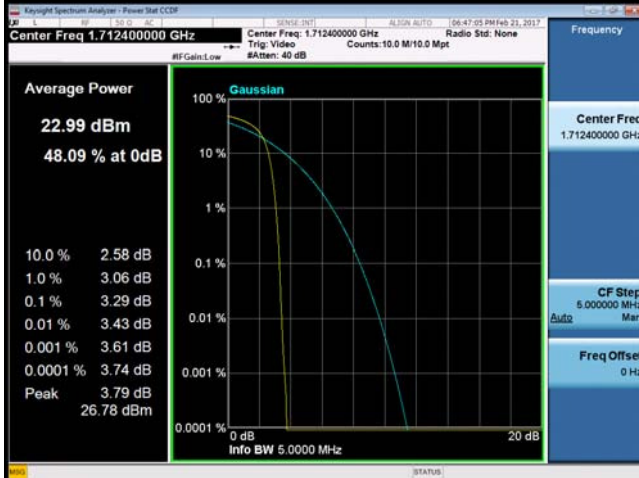


1513

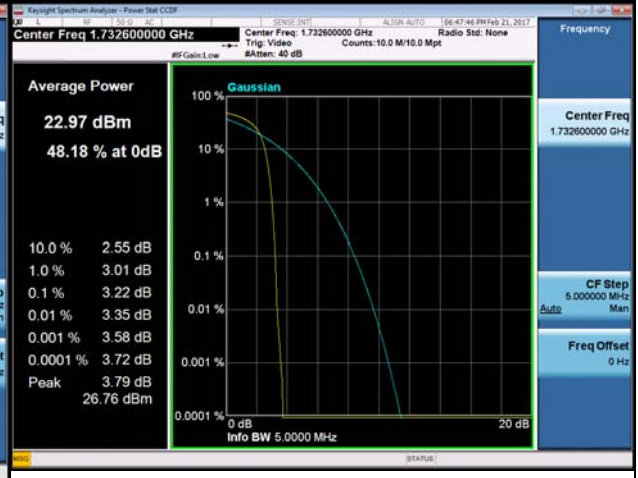


WCDMA Band 4 Spectrum Plot_HSUPA

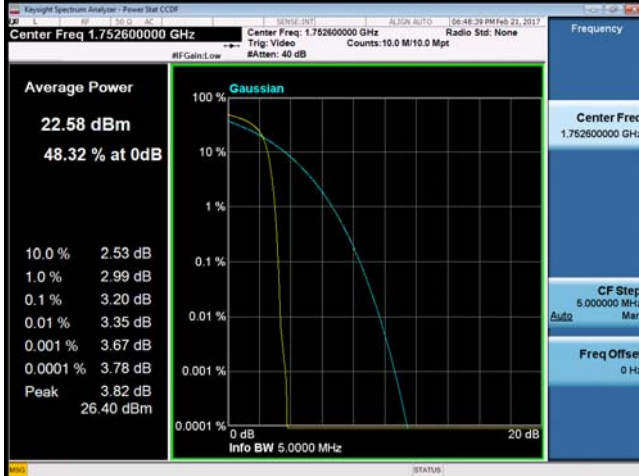
1312



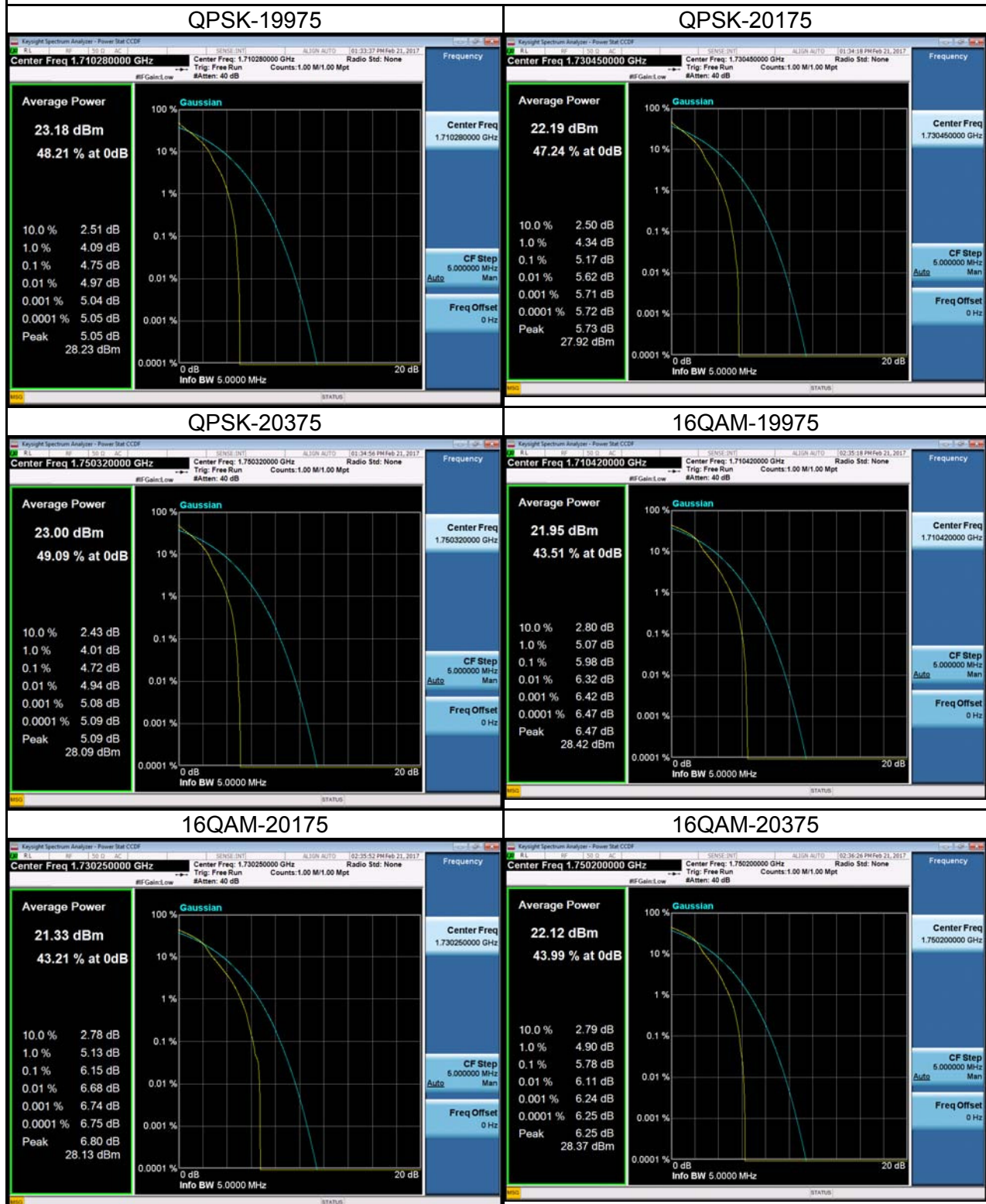
1413



1513

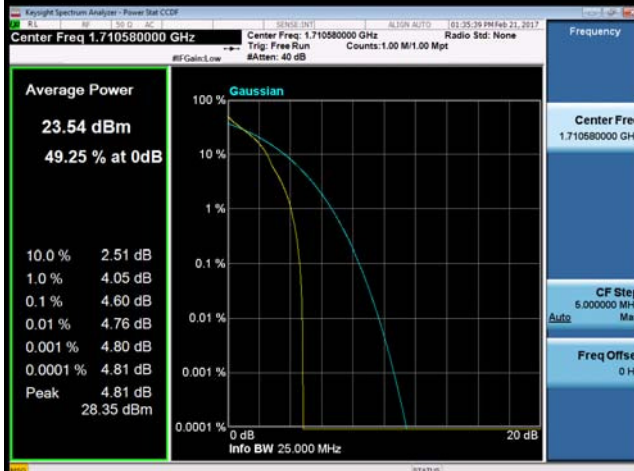


LTE Band 4 Spectrum Plot_5M



LTE Band 4 Spectrum Plot_10M

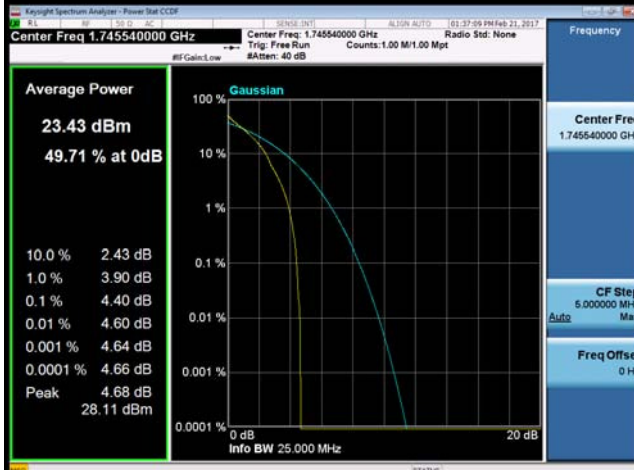
QPSK-20000



QPSK-20175



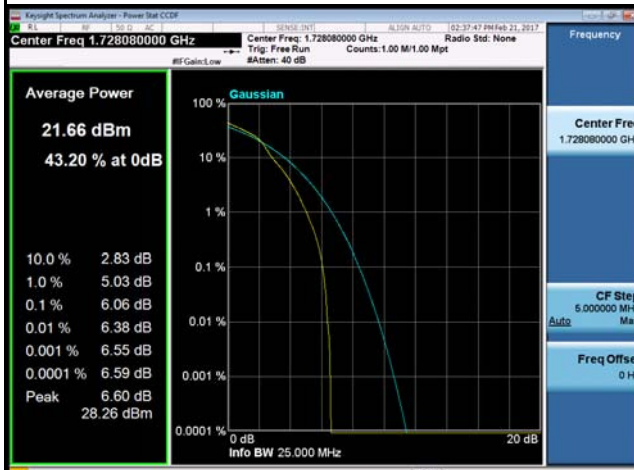
QPSK-20350



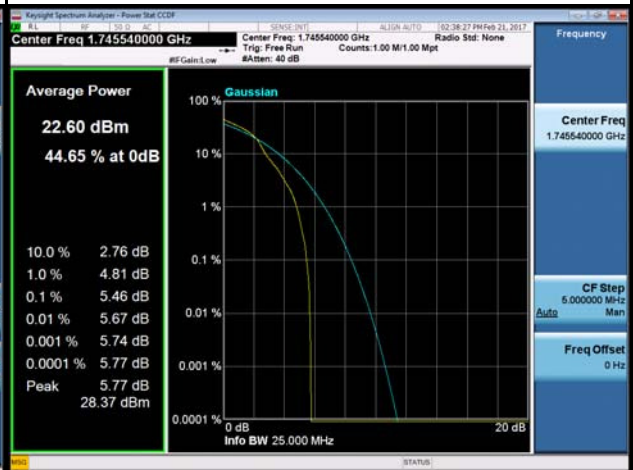
16QAM-20000



16QAM-20175

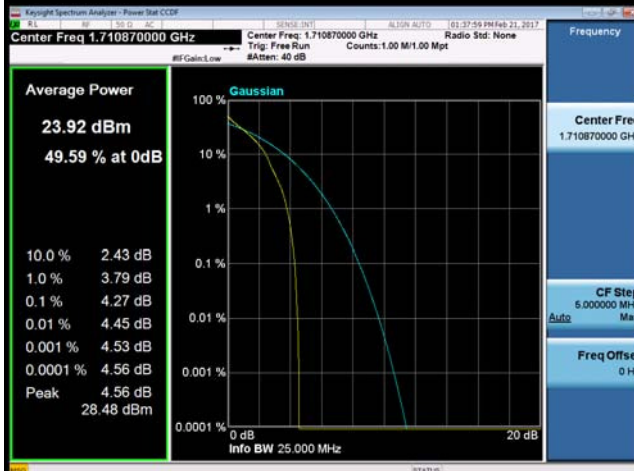


16QAM-20350



LTE Band 4 Spectrum Plot_15M

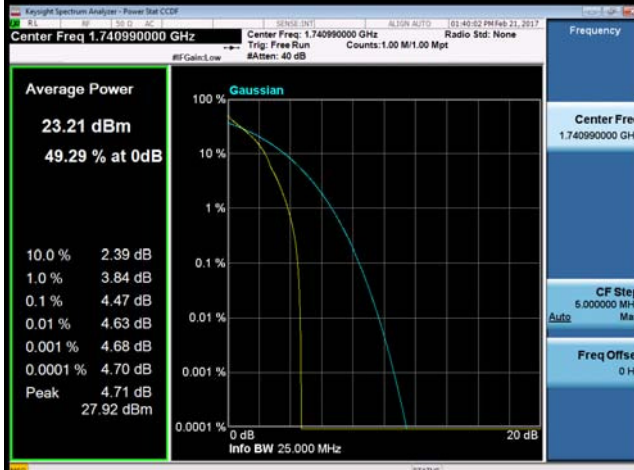
QPSK-20025



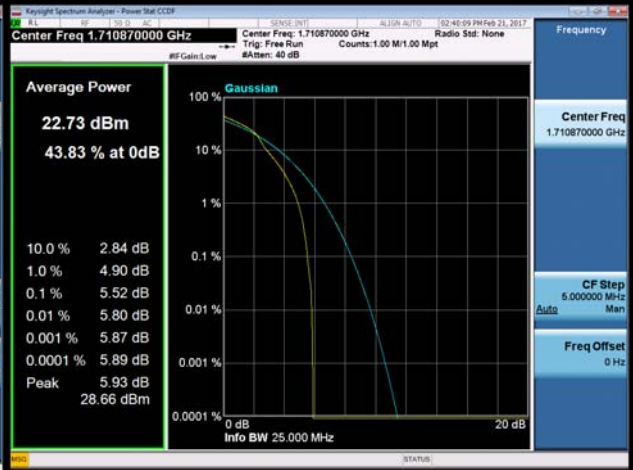
QPSK-20175



QPSK-20325



16QAM-20025



16QAM-20175

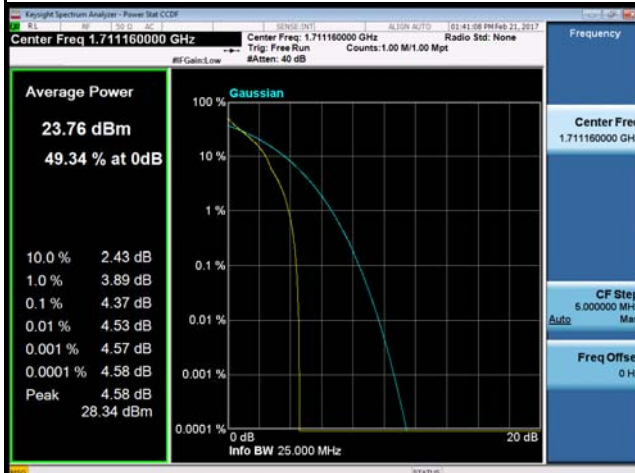


16QAM-20325



LTE Band 4 Spectrum Plot_20M

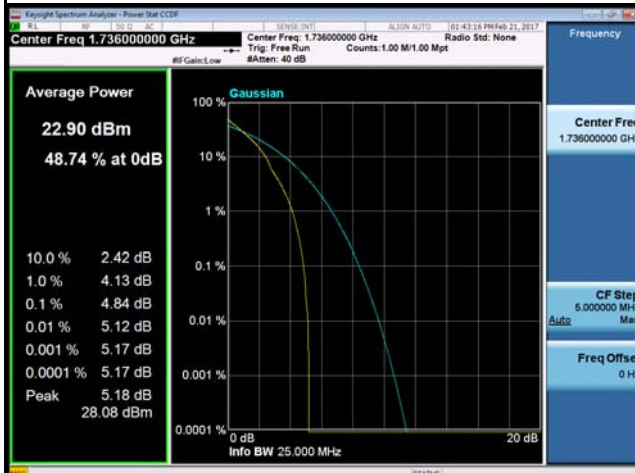
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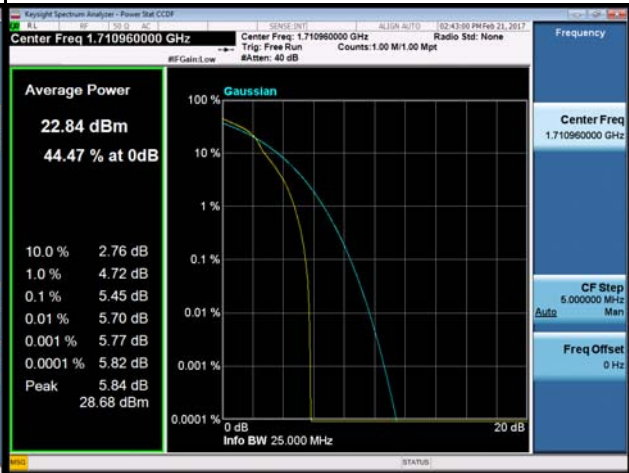
QPSK-20175



QPSK-20300



16QAM-20050



16QAM-20175

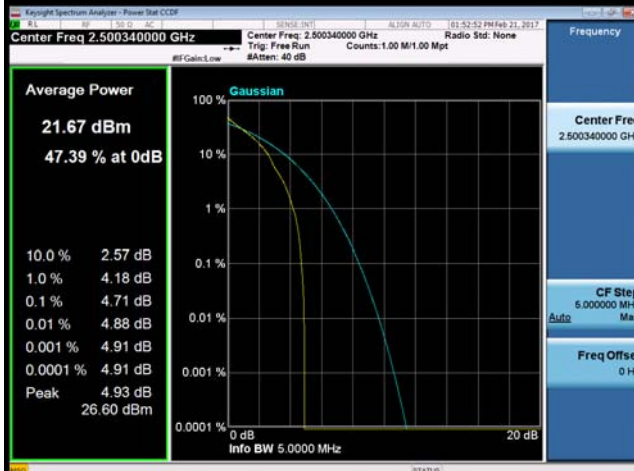


16QAM-20300



LTE Band 7 Spectrum Plot_5M

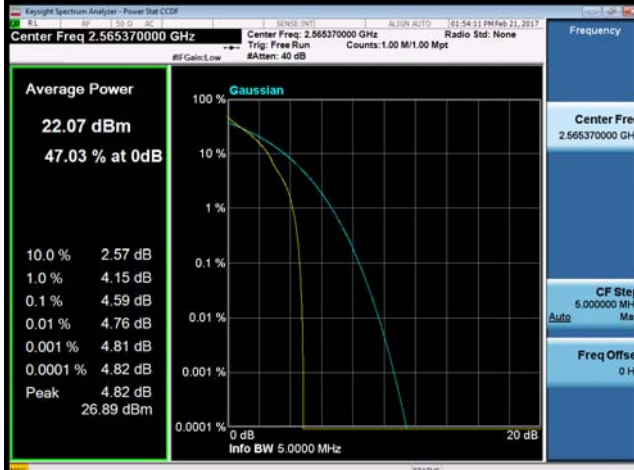
QPSK-20775



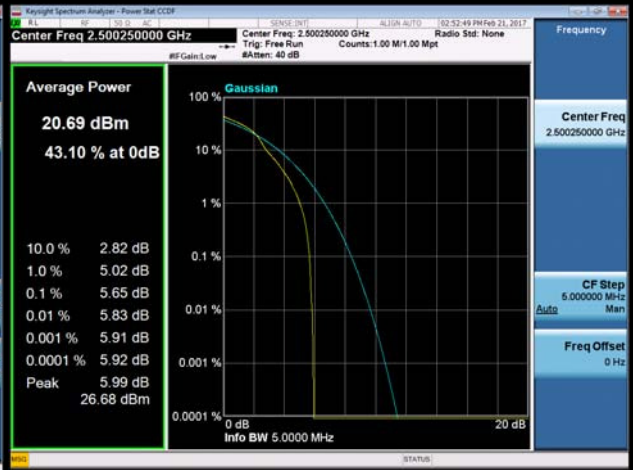
QPSK-21100



QPSK-21425



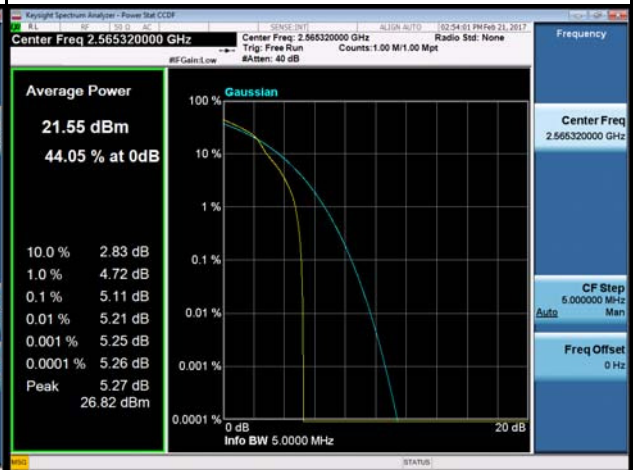
16QAM-20775



16QAM-21100

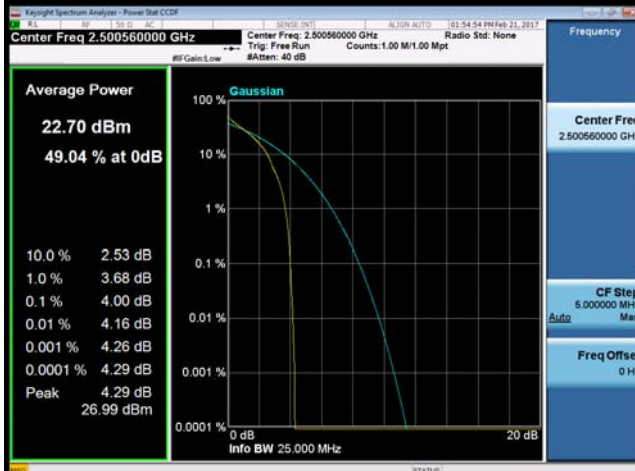


16QAM-21425



LTE Band 7 Spectrum Plot_10M

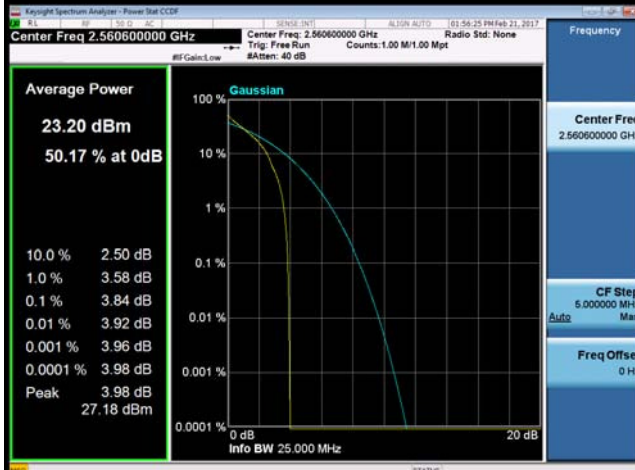
QPSK-20800



QPSK-21100



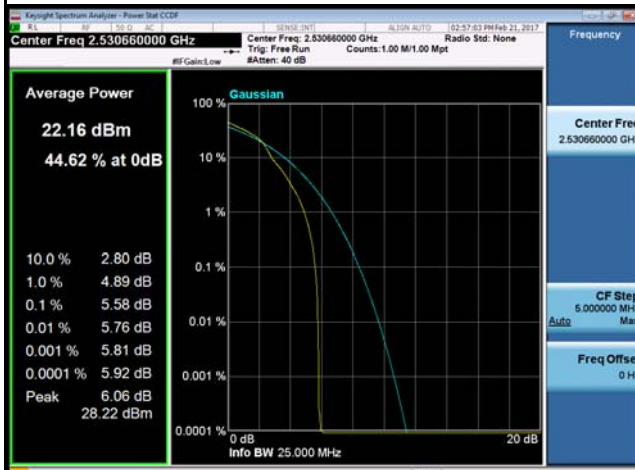
QPSK-21400



16QAM-20800



16QAM-21100

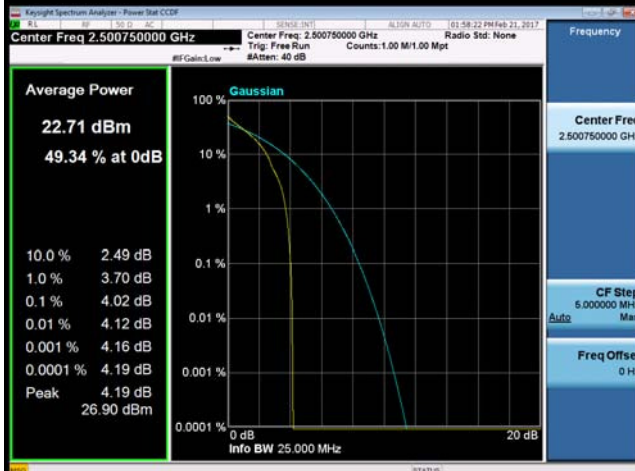


16QAM-21400



LTE Band 7 Spectrum Plot_15M

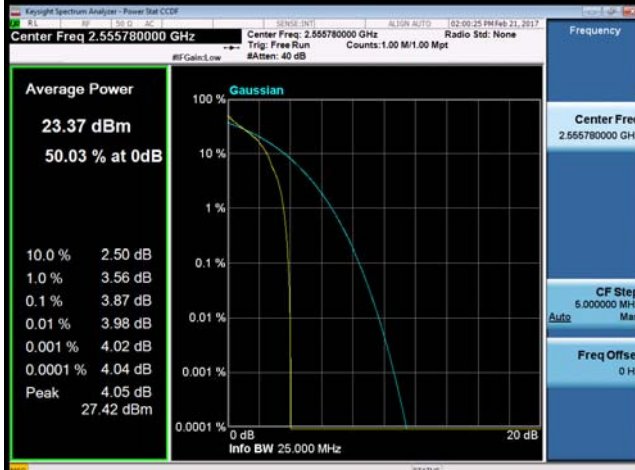
QPSK-20825



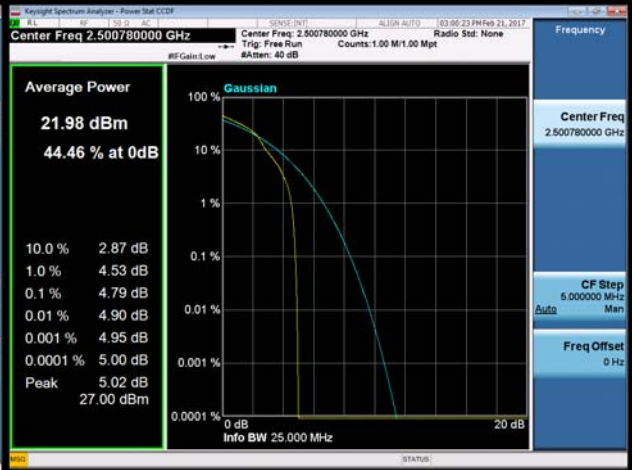
QPSK-21100



QPSK-21375



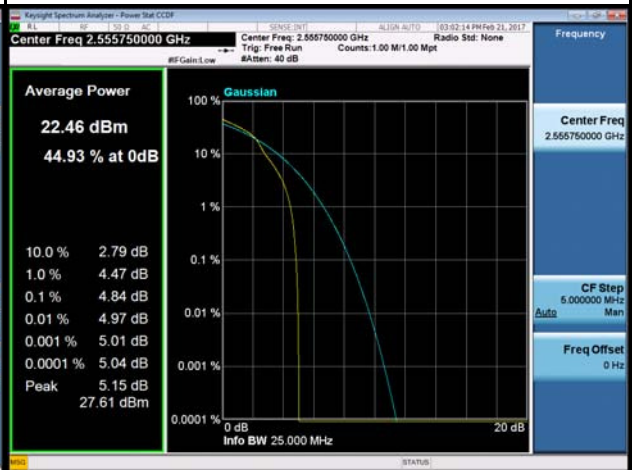
16QAM-20825



16QAM-21100

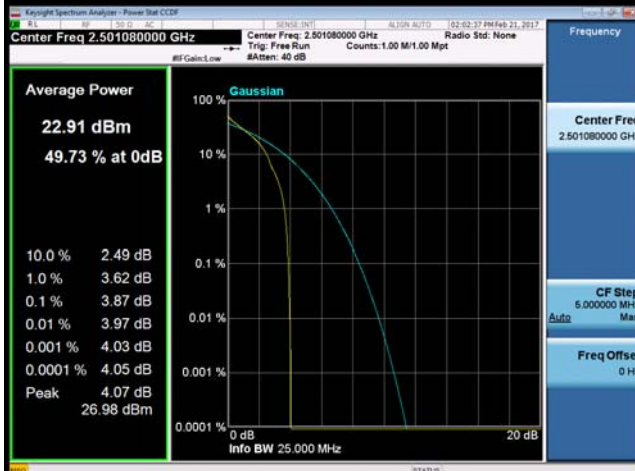


16QAM-21375



LTE Band 7 Spectrum Plot_20M

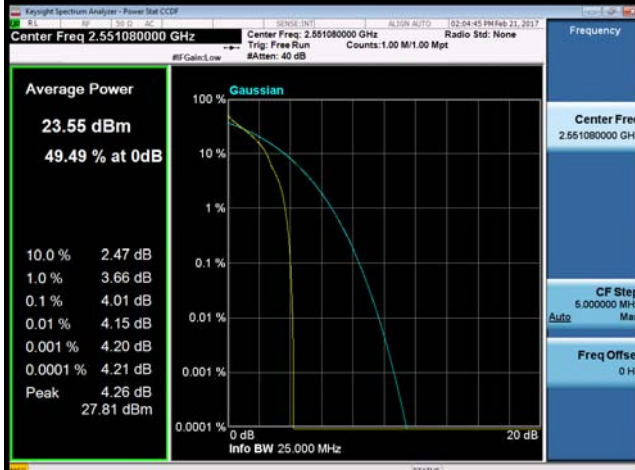
QPSK-20850



QPSK-21100



QPSK-21350



16QAM-20850



16QAM-21100

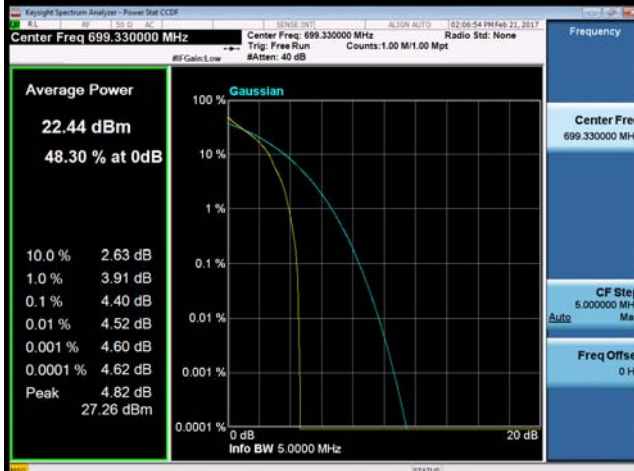


16QAM-21350



LTE Band 12 Spectrum Plot_5M

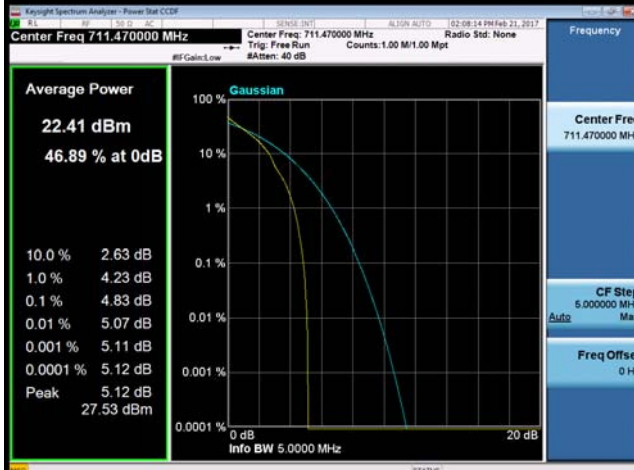
QPSK-23035



QPSK-23095



QPSK-23155



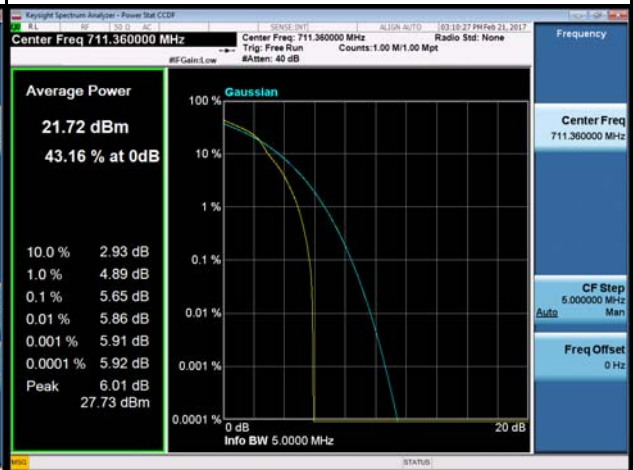
16QAM-23035



16QAM-23095

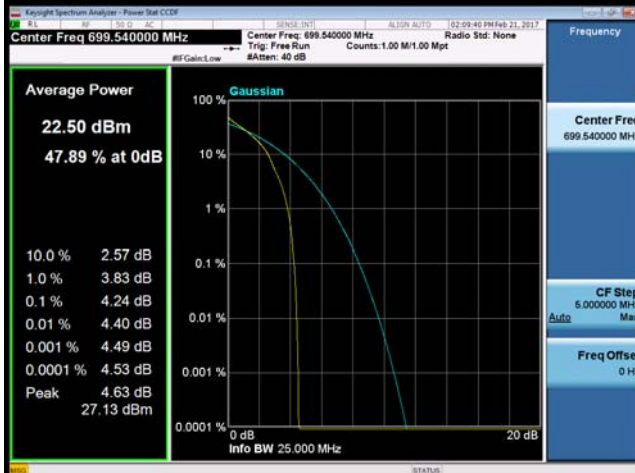


16QAM-23155

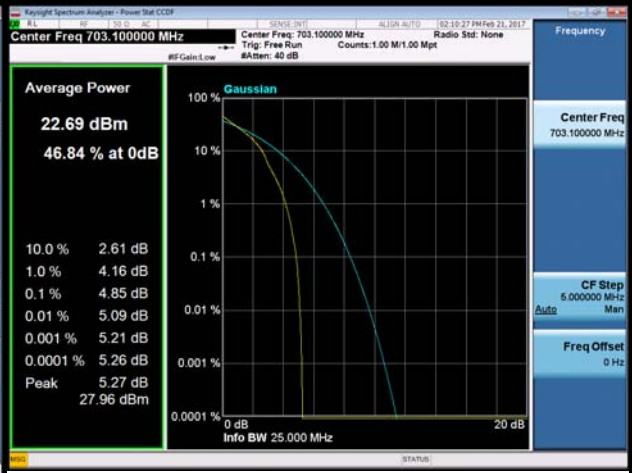


LTE Band 12 Spectrum Plot_10M

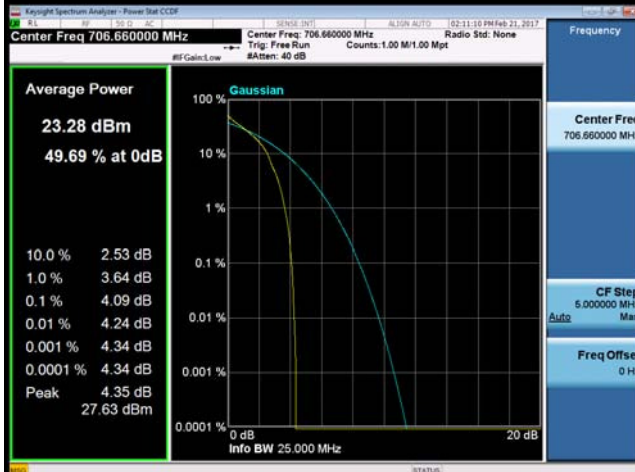
QPSK-22060



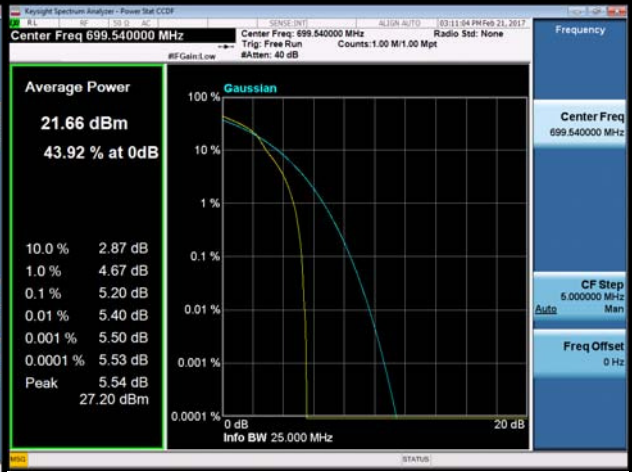
QPSK-20175



QPSK-23130



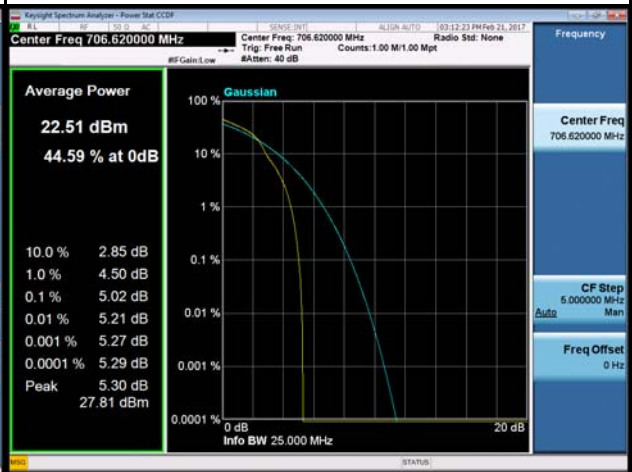
16QAM-22060



16QAM-20175

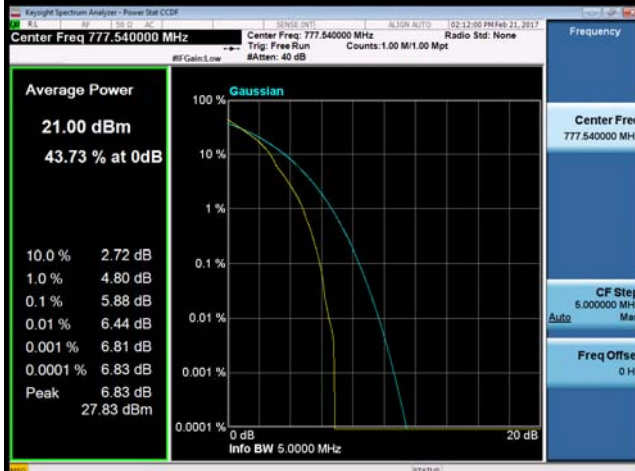


16QAM-23130

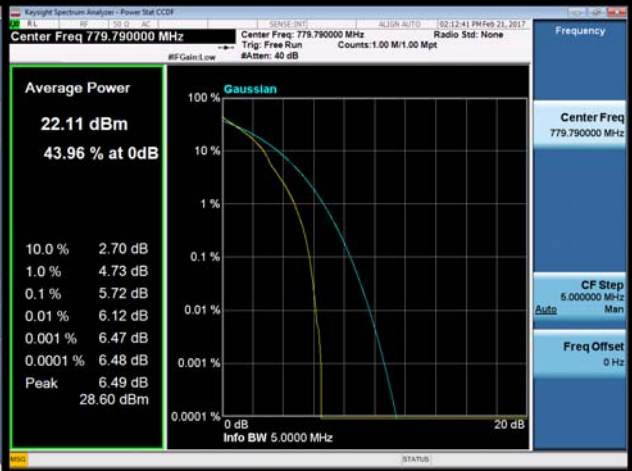


LTE Band 13 Spectrum Plot_5M

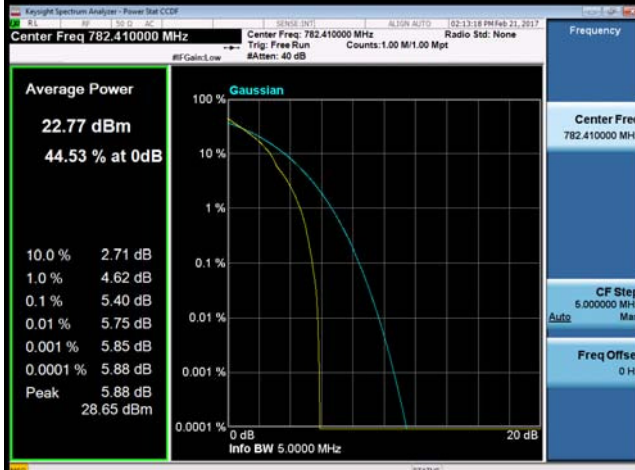
QPSK-23205



QPSK-23230



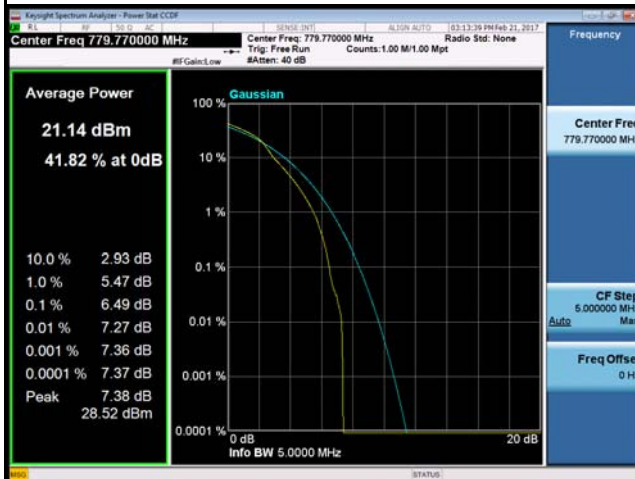
QPSK-23255



16QAM-23205



16QAM-23230

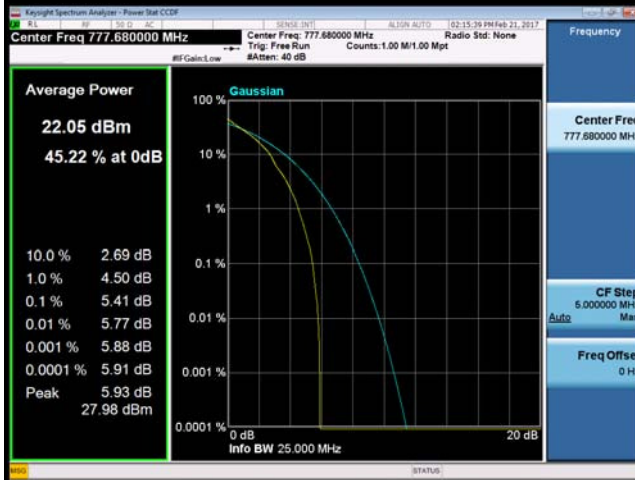


16QAM-23255



LTE Band 13 Spectrum Plot_10M

QPSK-23230

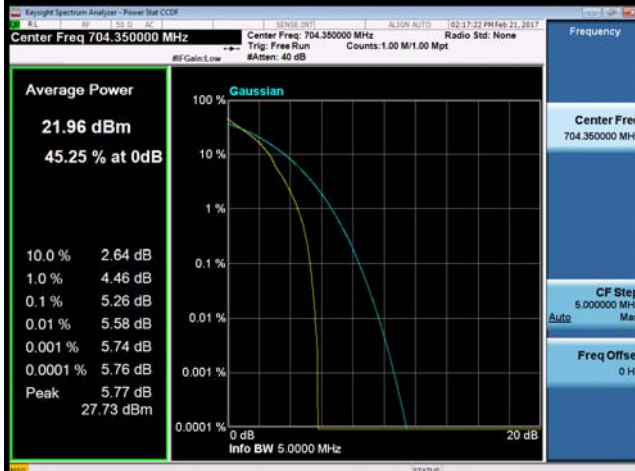


16QAM-23230

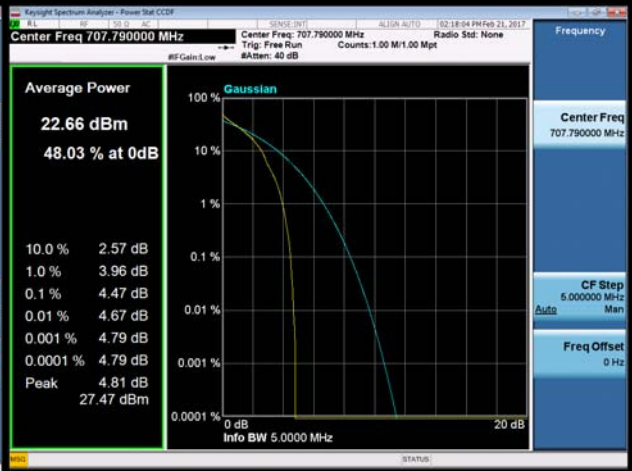


LTE Band 17 Spectrum Plot_5M

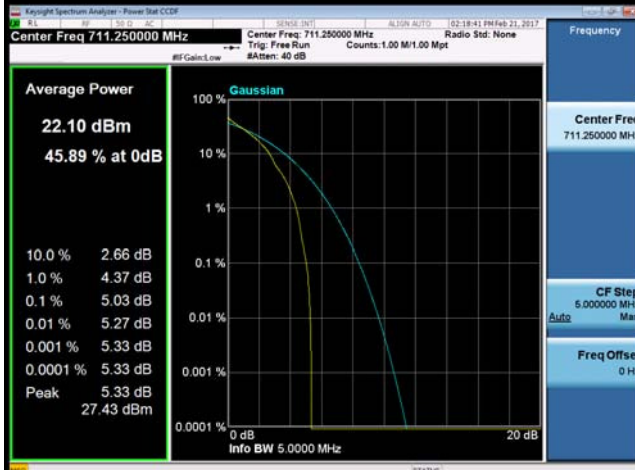
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QPSK23790



QPSK-23825



16QAM-23755



16QAM-23790

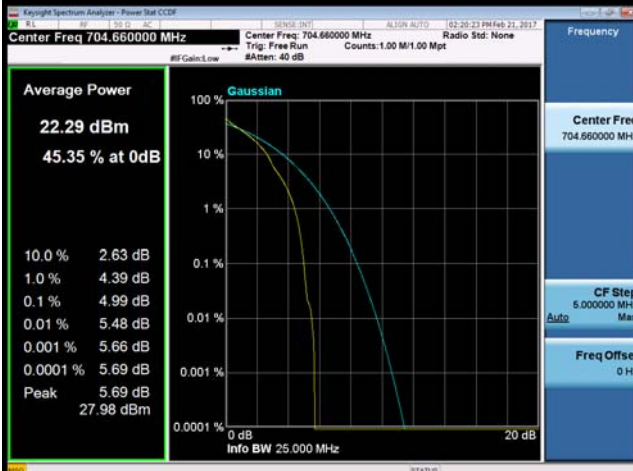


16QAM-23825

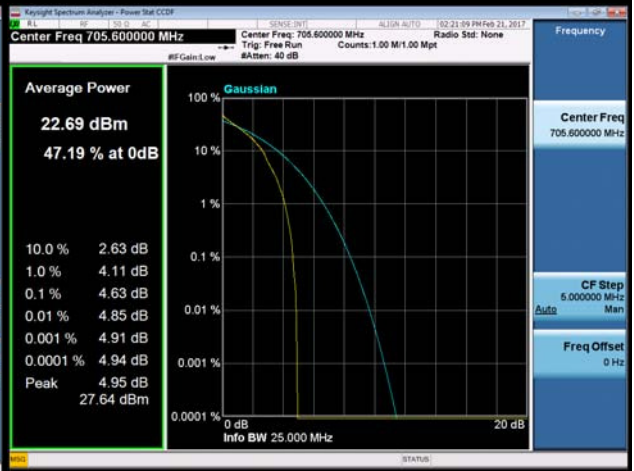


LTE Band 17 Spectrum Plot_10M

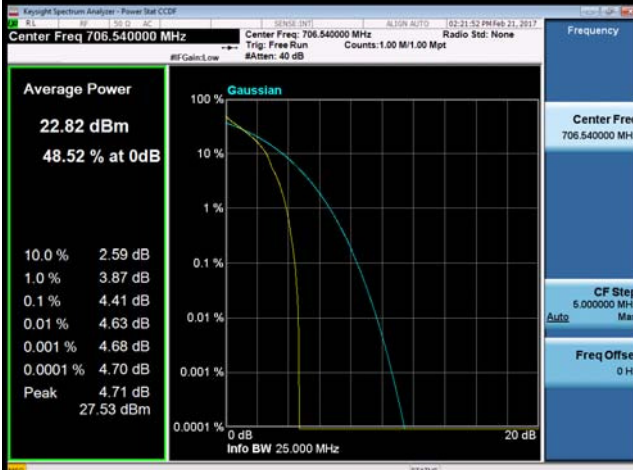
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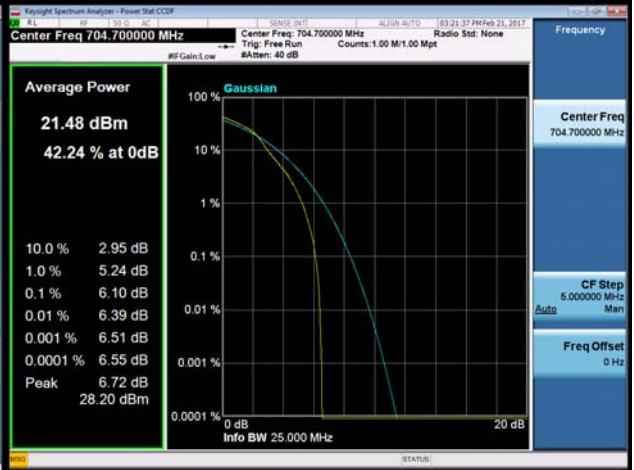
QPSK-23790



QPSK-23800



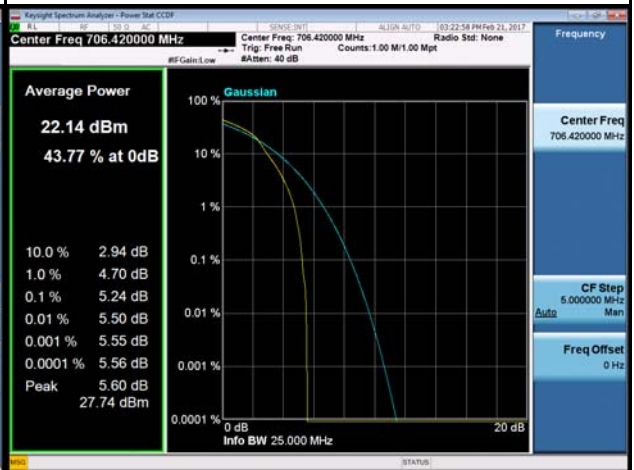
16QAM-23780



16QAM-23790



16QAM-23800



ATTACHMENT G - FREQUENCY STABILITY

Test Mode:	WCDMA Band 4_CH1413
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	5.58	0.003220593	2.5
-20	6.64	0.003832391	2.5
-10	8.25	0.00476163	2.5
0	5.84	0.003370657	2.5
10	6.93	0.003999769	2.5
20	8.05	0.004646196	2.5
30	7.26	0.004190234	2.5
40	6.98	0.004028627	2.5
50	5.1	0.002943553	2.5
Max. Deviation (ppm)	8.25	0.00476163	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	9.38	0.005413829	2.5
4.0	5.62	0.00324368	2.5
4.2	7.36	0.004247951	2.5
Max. Deviation (ppm)	9.38	0.005413829	2.5

Test Mode:	LTE Band 4_CH20175_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.21	0.001852814	2.5
-20	-5.42	0.003128427	2.5
-10	-3.81	0.002199134	2.5
0	1.83	0.001056277	2.5
10	2.36	0.001362193	2.5
20	-2.55	0.001471861	2.5
30	-6.05	0.003492063	2.5
40	6.67	0.003849928	2.5
50	3.08	0.001777778	2.5
Max. Deviation (ppm)	6.67	0.003849928	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	5.12	0.002955267	2.5
4.0	-4.39	0.002533911	2.5
4.2	-2.76	0.001593074	2.5
Max. Deviation (ppm)	5.12	0.002955267	2.5

Test Mode:	LTE Band 4_CH20175_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.18	0.001258297	2.5
-20	-1.10	0.000634921	2.5
-10	5.89	0.003399711	2.5
0	-5.61	0.003238095	2.5
10	2.25	0.001298701	2.5
20	3.77	0.002176046	2.5
30	1.49	0.000860029	2.5
40	4.83	0.002787879	2.5
50	4.47	0.002580087	2.5
Max. Deviation (ppm)	5.89	0.003399711	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-1.75	0.001010101	2.5
4.0	-2.61	0.001506494	2.5
4.2	4.17	0.002406926	2.5
Max. Deviation (ppm)	4.17	0.002406926	2.5

Test Mode:	LTE Band 4_CH20175_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.67	0.001541126	2.5
-20	3.46	0.001997114	2.5
-10	-5.27	0.003041847	2.5
0	-1.60	0.000923521	2.5
10	2.81	0.001621934	2.5
20	3.37	0.001945166	2.5
30	4.69	0.002707071	2.5
40	5.25	0.003030303	2.5
50	6.33	0.00365368	2.5
Max. Deviation (ppm)	6.33	0.00365368	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	3.31	0.001910534	2.5
4.0	2.60	0.001500722	2.5
4.2	3.69	0.00212987	2.5
Max. Deviation (ppm)	3.69	0.00212987	2.5

Test Mode:	LTE Band 4_CH20175_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	1.30	0.000750361	2.5
-20	4.49	0.002591631	2.5
-10	3.75	0.002164502	2.5
0	2.60	0.001500722	2.5
10	-5.13	0.002961039	2.5
20	5.62	0.003243867	2.5
30	4.93	0.002845599	2.5
40	-5.41	0.003122655	2.5
50	-4.81	0.002776335	2.5
Max. Deviation (ppm)	5.62	0.003243867	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	5.21	0.003007215	2.5
4.0	-4.54	0.002620491	2.5
4.2	5.52	0.003186147	2.5
Max. Deviation (ppm)	5.52	0.003186147	2.5

Test Mode:	LTE Band 7_CH21100_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	4.61	0.00181854	2.5
-20	5.50	0.002169625	2.5
-10	3.97	0.001566075	2.5
0	-2.80	0.001104536	2.5
10	-6.73	0.002654832	2.5
20	2.29	0.000903353	2.5
30	5.11	0.002015779	2.5
40	-4.61	0.00181854	2.5
50	2.56	0.001009862	2.5
Max. Deviation (ppm)	6.73	0.002654832	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	3.34	0.001317554	2.5
4.0	4.49	0.001771203	2.5
4.2	5.21	0.002055227	2.5
Max. Deviation (ppm)	5.21	0.002055227	2.5

Test Mode:	LTE Band 7_CH21100_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-6.36	0.002508876	2.5
-20	5.14	0.002027613	2.5
-10	4.50	0.001775148	2.5
0	-6.03	0.002378698	2.5
10	-5.19	0.002047337	2.5
20	4.07	0.001605523	2.5
30	3.86	0.001522682	2.5
40	2.71	0.001069034	2.5
50	-3.99	0.001573964	2.5
Max. Deviation (ppm)	6.36	0.002508876	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.06	0.000812623	2.5
4.0	-4.70	0.001854043	2.5
4.2	2.31	0.000911243	2.5
Max. Deviation (ppm)	4.70	0.001854043	2.5

Test Mode:	LTE Band 7_CH21100_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.58	0.001017751	2.5
-20	7.44	0.002934911	2.5
-10	2.74	0.001080868	2.5
0	-2.06	0.000812623	2.5
10	-6.34	0.002500986	2.5
20	5.19	0.002047337	2.5
30	2.76	0.001088757	2.5
40	-5.16	0.002035503	2.5
50	2.18	0.000859961	2.5
Max. Deviation (ppm)	7.44	0.002934911	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-5.19	0.002047337	2.5
4.0	-4.27	0.001684418	2.5
4.2	5.35	0.002110454	2.5
Max. Deviation (ppm)	5.35	0.002110454	2.5

Test Mode:	LTE Band 7_CH21100_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.33	0.001313609	2.5
-20	-2.59	0.001021696	2.5
-10	-6.87	0.002710059	2.5
0	5.49	0.00216568	2.5
10	6.20	0.002445759	2.5
20	4.07	0.001605523	2.5
30	1.93	0.000761341	2.5
40	2.16	0.000852071	2.5
50	3.43	0.001353057	2.5
Max. Deviation (ppm)	6.87	0.002710059	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.38	0.000938856	2.5
4.0	1.59	0.000627219	2.5
4.2	4.61	0.00181854	2.5
Max. Deviation (ppm)	4.61	0.00181854	2.5

Test Mode:	LTE Band 12_CH23095_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.22	0.004551237	2.5
-20	-5.30	0.007491166	2.5
-10	5.14	0.007265018	2.5
0	4.68	0.006614841	2.5
10	-5.92	0.008367491	2.5
20	4.66	0.006586572	2.5
30	-5.22	0.007378092	2.5
40	-3.87	0.005469965	2.5
50	5.03	0.007109541	2.5
Max. Deviation (ppm)	5.92	0.008367491	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	4.57	0.006459364	2.5
4.0	5.02	0.007095406	2.5
4.2	3.28	0.004636042	2.5
Max. Deviation (ppm)	5.02	0.007095406	2.5

Test Mode: LTE Band 12_CH23095_10M

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	1.19	0.001681979	2.5
-20	-5.24	0.00740636	2.5
-10	-6.21	0.008777385	2.5
0	5.06	0.007151943	2.5
10	4.26	0.006015548	2.5
20	3.15	0.004452297	2.5
30	5.62	0.007943463	2.5
40	1.84	0.002600707	2.5
50	5.68	0.008028269	2.5
Max. Deviation (ppm)	6.21	0.008777385	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-5.18	0.007321555	2.5
4.0	-4.29	0.006063604	2.5
4.2	3.50	0.004946996	2.5
Max. Deviation (ppm)	5.18	0.007321555	2.5

Test Mode:	LTE Band 13_CH23230_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-1.17	0.001496164	2.5
-20	3.65	0.004667519	2.5
-10	-6.06	0.007749361	2.5
0	2.81	0.00359335	2.5
10	5.92	0.007570332	2.5
20	4.33	0.005537084	2.5
30	-4.16	0.005319693	2.5
40	5.70	0.007289003	2.5
50	2.80	0.003580563	2.5
Max. Deviation (ppm)	6.06	0.007749361	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.25	0.002877238	2.5
4.0	2.37	0.003030691	2.5
4.2	-3.09	0.003951407	2.5
Max. Deviation (ppm)	3.09	0.003951407	2.5

Test Mode:	LTE Band 13_CH23230_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.26	0.002890026	2.5
-20	3.59	0.004590793	2.5
-10	4.25	0.005434783	2.5
0	-5.14	0.00657289	2.5
10	-6.26	0.008005115	2.5
20	-3.19	0.004079284	2.5
30	2.84	0.003631714	2.5
40	4.81	0.006150895	2.5
50	3.55	0.004539642	2.5
Max. Deviation (ppm)	6.26	0.008005115	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-3.60	0.004603581	2.5
4.0	2.59	0.00331202	2.5
4.2	3.91	0.005	2.5
Max. Deviation (ppm)	3.91	0.005	2.5

Test Mode:	LTE Band 17_CH23790_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.08	0.004338028	2.5
-20	5.16	0.007267606	2.5
-10	-4.67	0.006577465	2.5
0	3.59	0.005056338	2.5
10	-2.64	0.00371831	2.5
20	4.66	0.00656338	2.5
30	5.67	0.007985915	2.5
40	6.15	0.008661972	2.5
50	2.84	0.004	2.5
Max. Deviation (ppm)	6.15	0.008661972	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	1.49	0.002098592	2.5
4.0	2.55	0.003591549	2.5
4.2	-4.01	0.005647887	2.5
Max. Deviation (ppm)	4.01	0.005647887	2.5

Test Mode:	LTE Band 17_CH23790_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.38	0.004760563	2.5
-20	-3.37	0.004746479	2.5
-10	4.51	0.006352113	2.5
0	6.62	0.009323944	2.5
10	-5.29	0.007450704	2.5
20	-4.76	0.006704225	2.5
30	5.83	0.008211268	2.5
40	4.62	0.006507042	2.5
50	1.31	0.00184507	2.5
Max. Deviation (ppm)	6.62	0.009323944	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	4.68	0.006591549	2.5
4.0	-2.69	0.003788732	2.5
4.2	3.94	0.005549296	2.5
Max. Deviation (ppm)	4.68	0.006591549	2.5