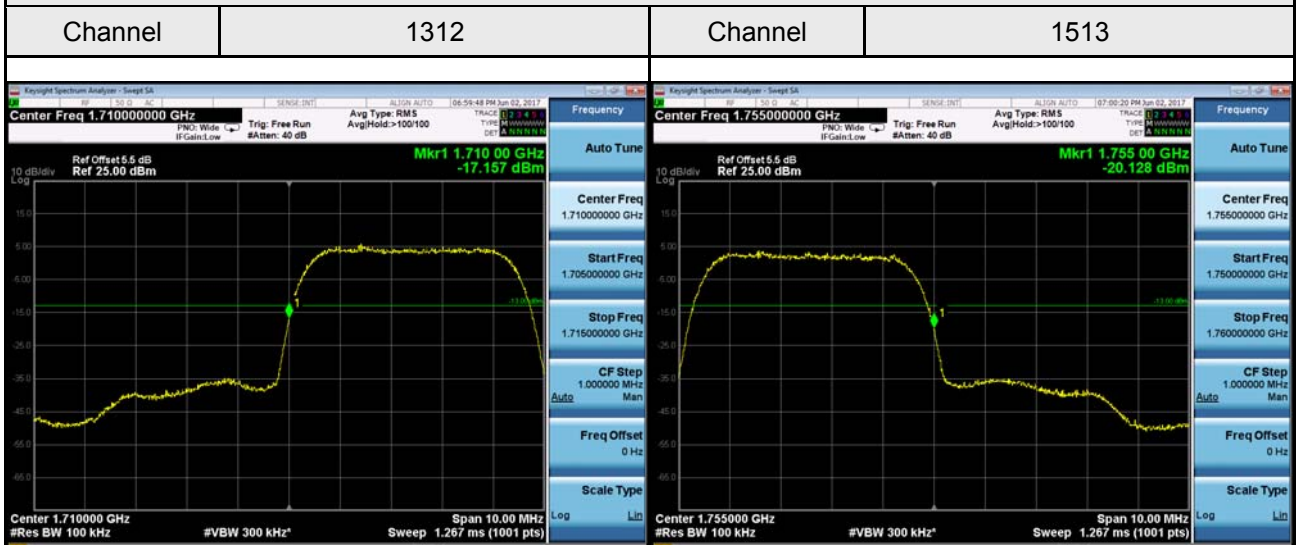
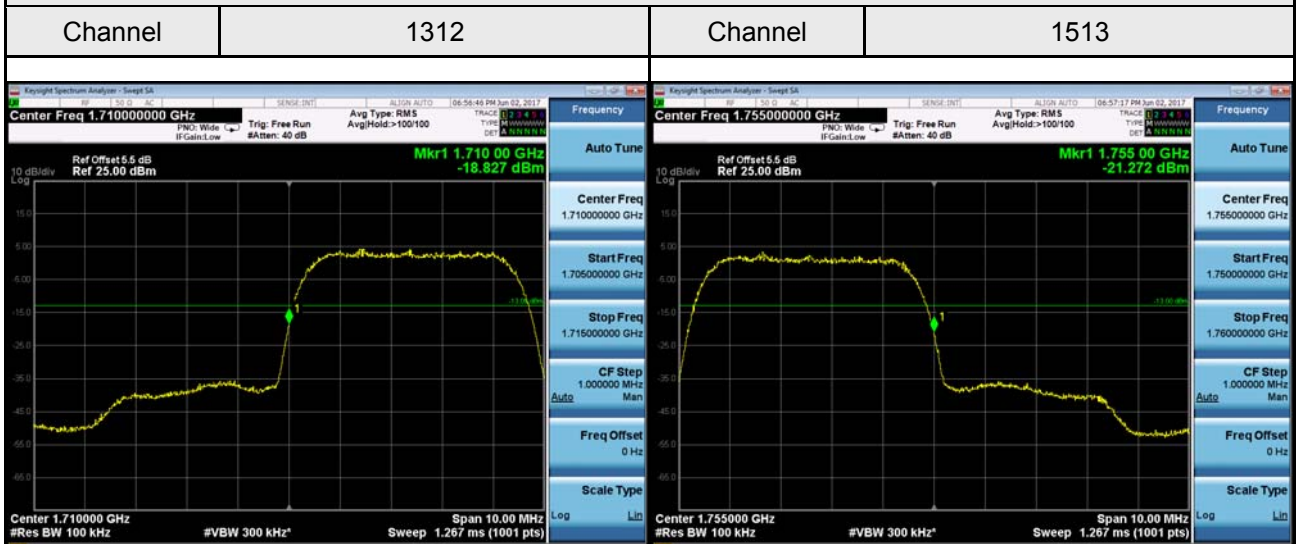


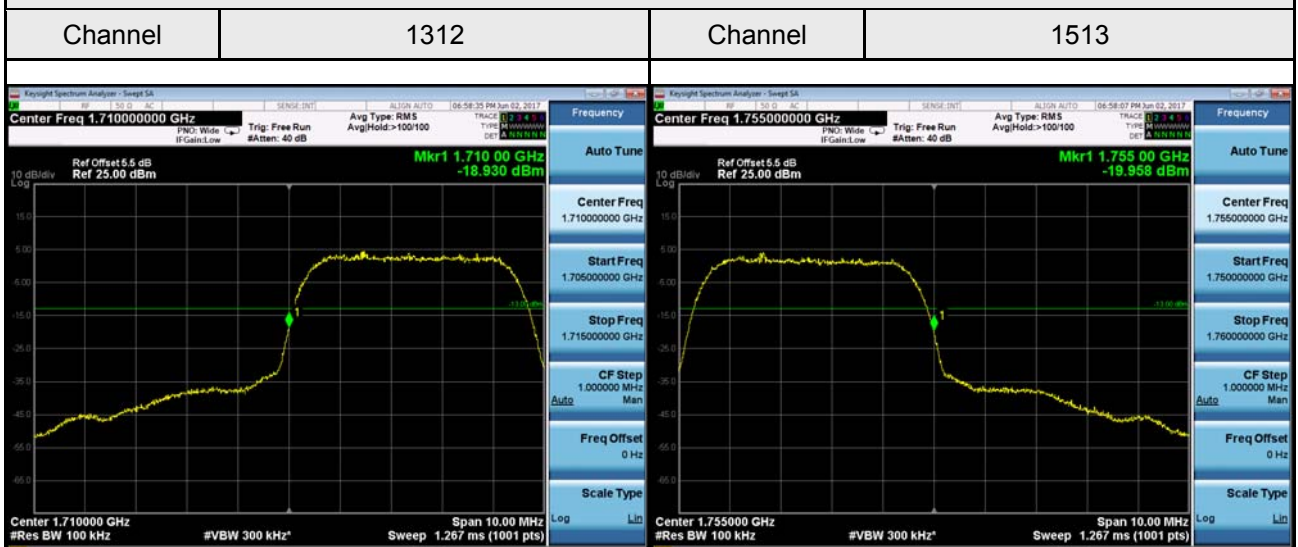
WCDMA Band 4_WCDMA



WCDMA Band 4_HSDPA



WCDMA Band 4_HSUPA



LTE Band 4_1.4M

1RB0

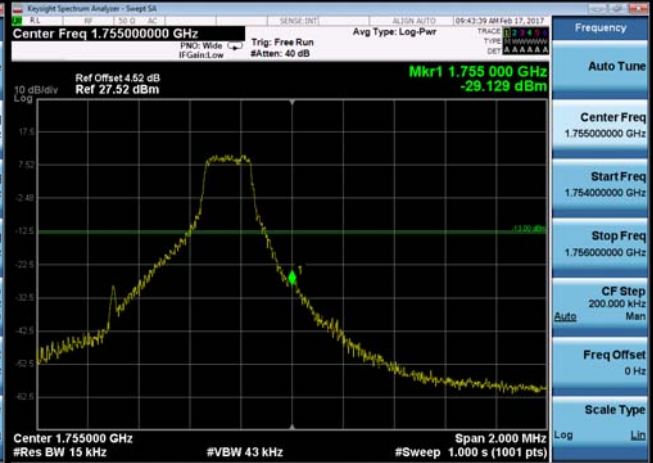
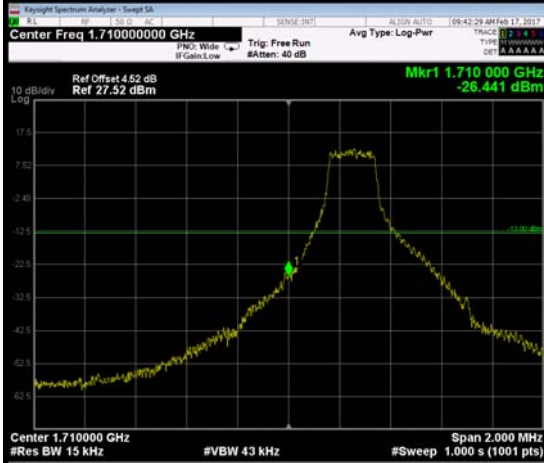
1RB5

Channel

19957

Channel

20393



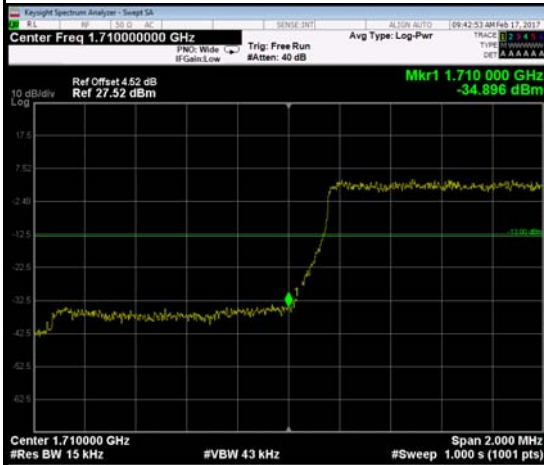
6RB0

Channel

19957

Channel

20393



LTE Band 4_3M

1RB0

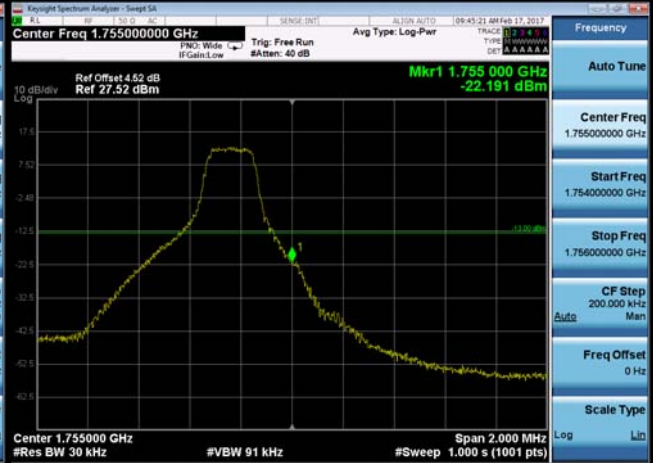
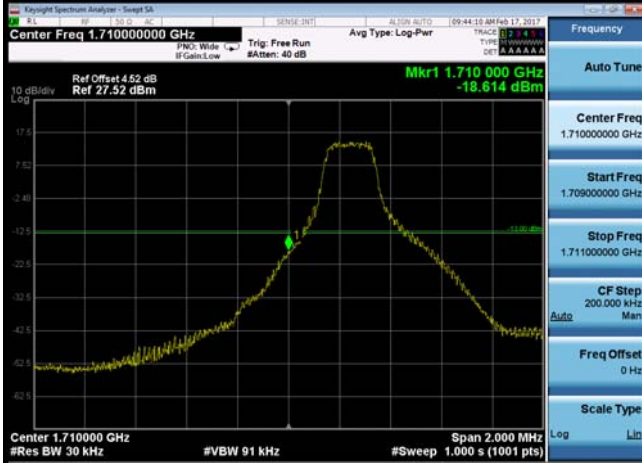
1RB14

Channel

19965

Channel

20385



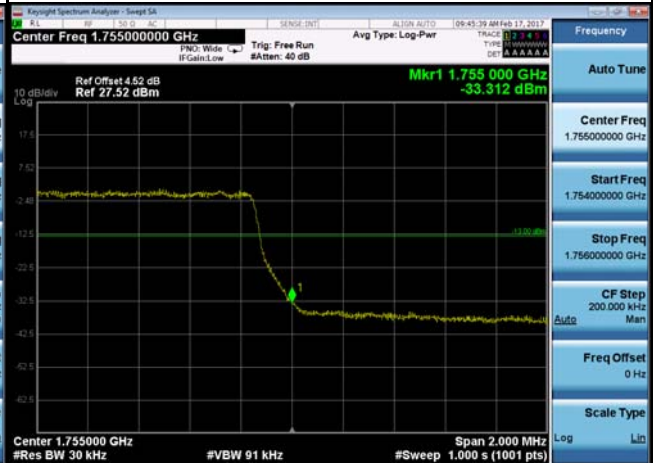
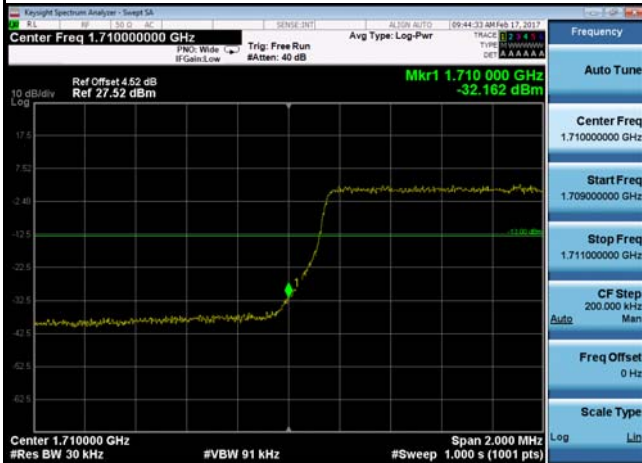
15RB0

Channel

19965

Channel

20385



LTE Band 4_5M

1RB0

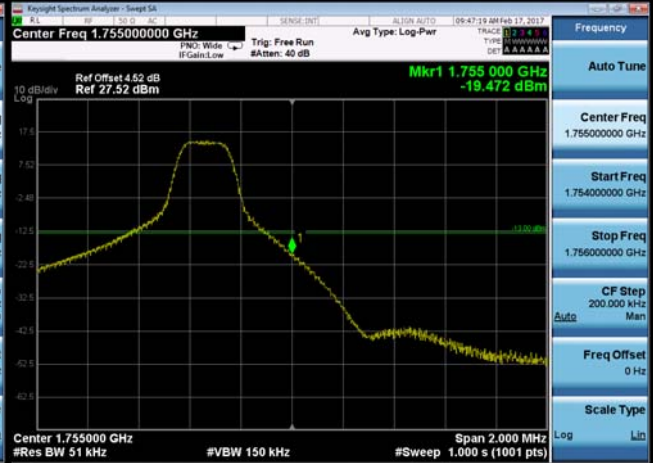
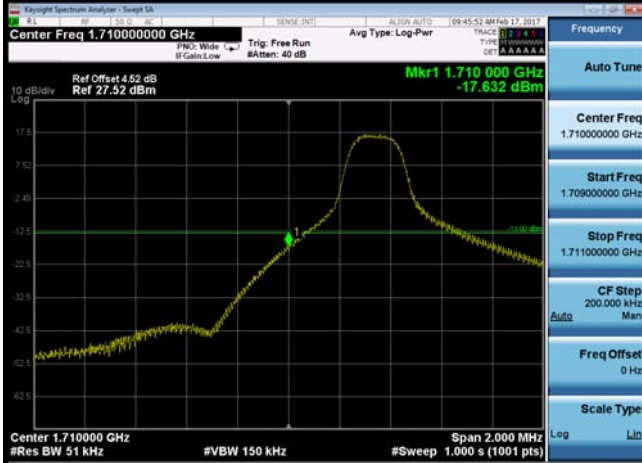
1RB24

Channel

19975

Channel

20375



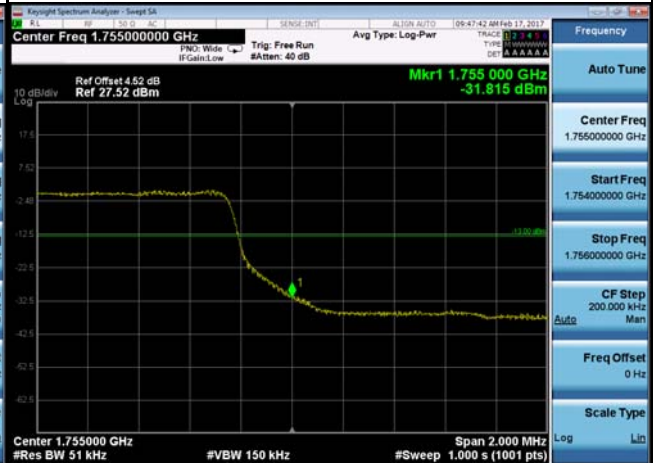
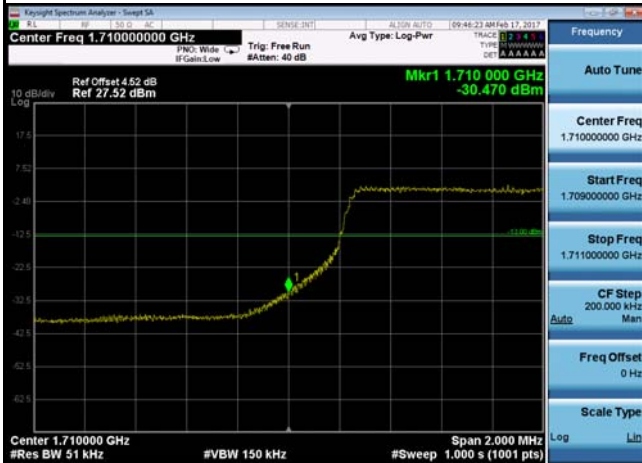
25RB0

Channel

19975

Channel

20375



LTE Band 4_10M

1RB0

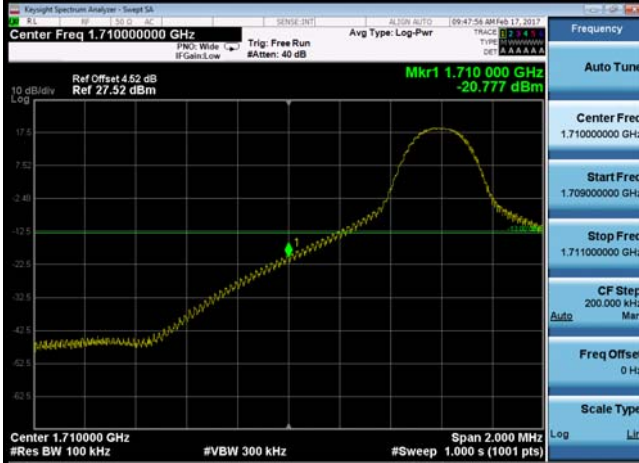
1RB49

Channel

2000

Channel

20350



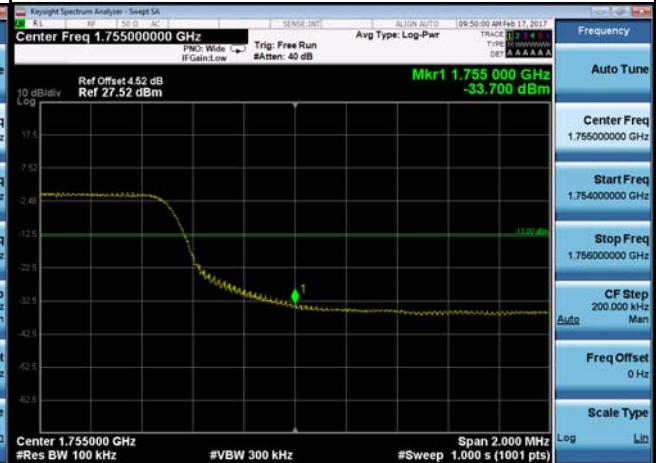
50RB0

Channel

2000

Channel

20350



LTE Band 4_15M

1RB0

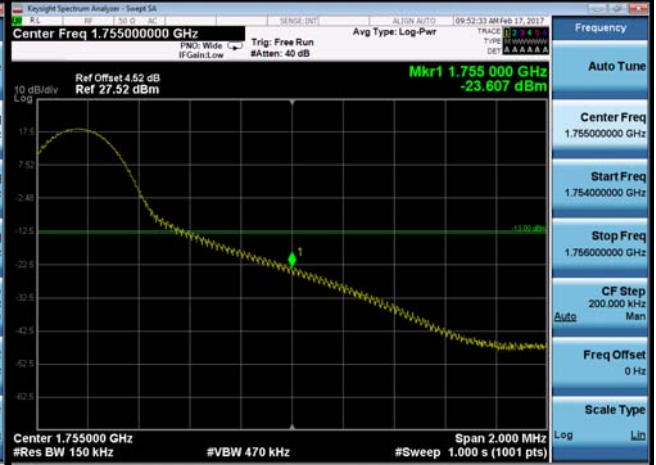
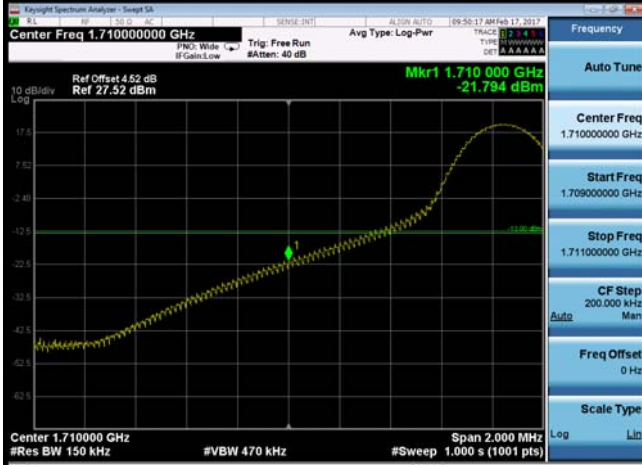
1RB74

Channel

20025

Channel

20325



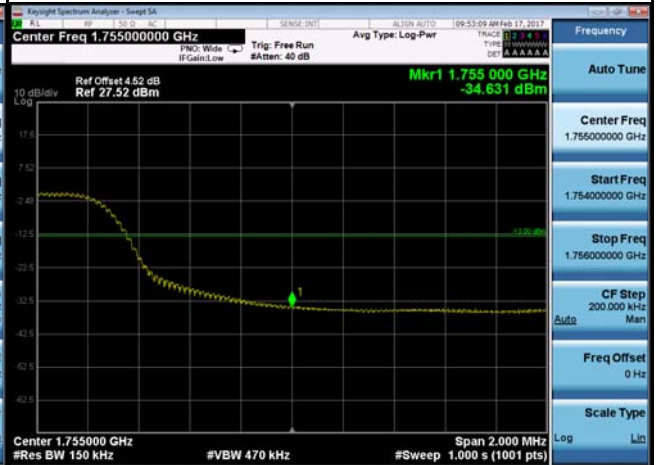
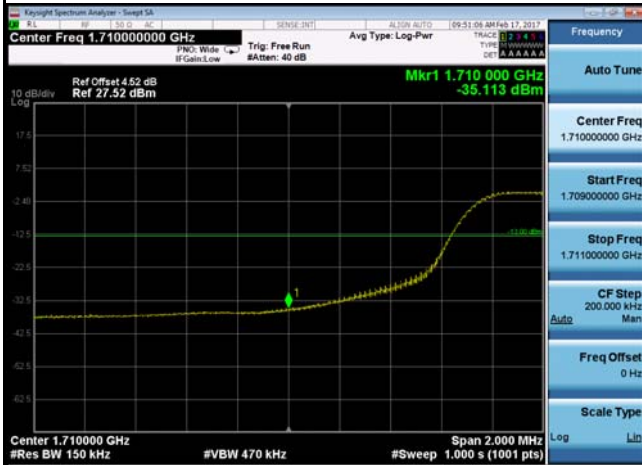
75RB0

Channel

20025

Channel

20325



LTE Band 4_20M

1RB0

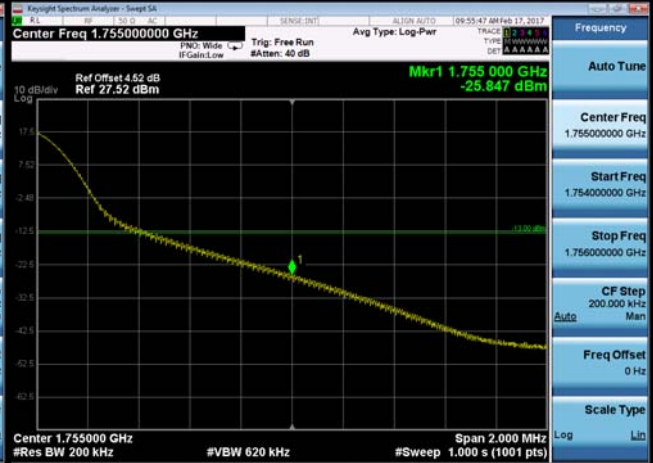
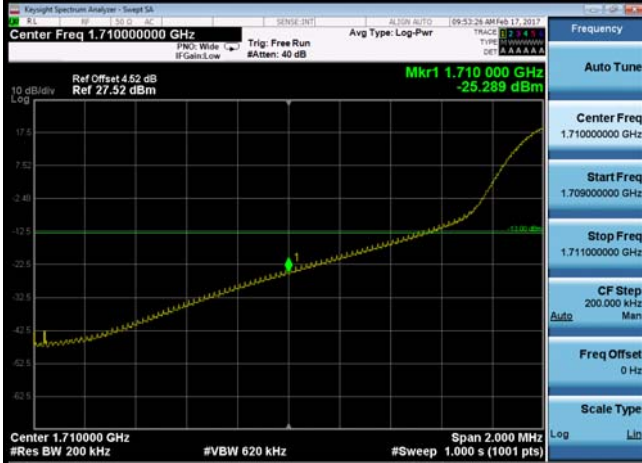
1RB99

Channel

20050

Channel

20300



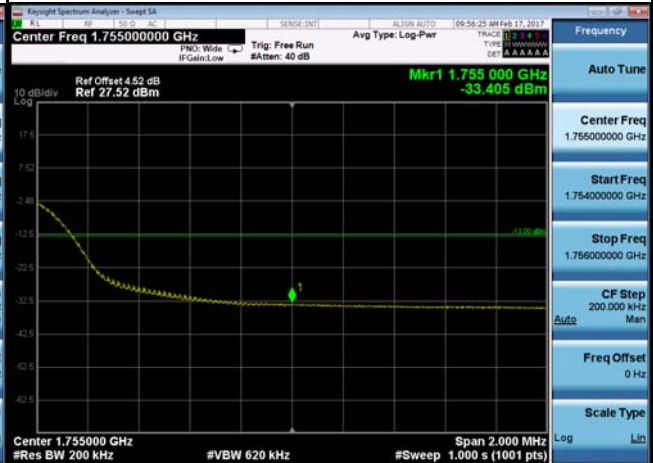
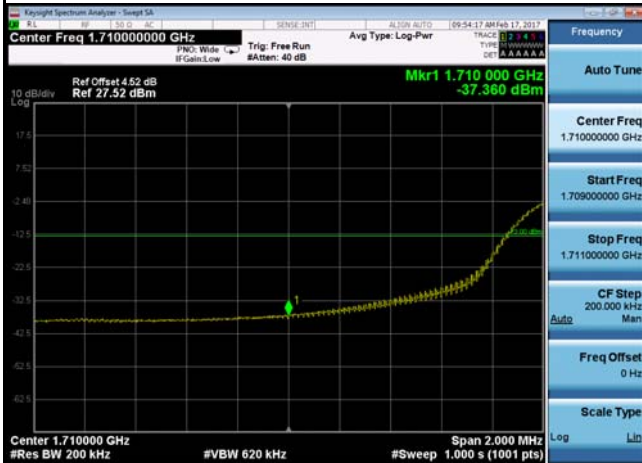
100RB0

Channel

20050

Channel

20300



LTE Band 7_5M

1RB0

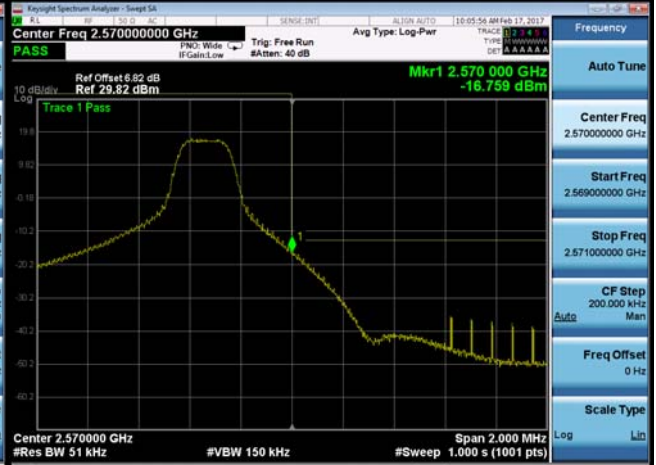
1RB24

Channel

20775

Channel

21425



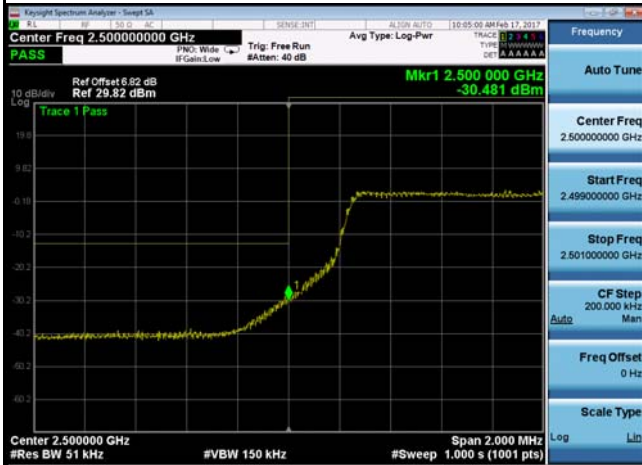
25RB0

Channel

20775

Channel

21425



LTE Band 7_10M

1RB0

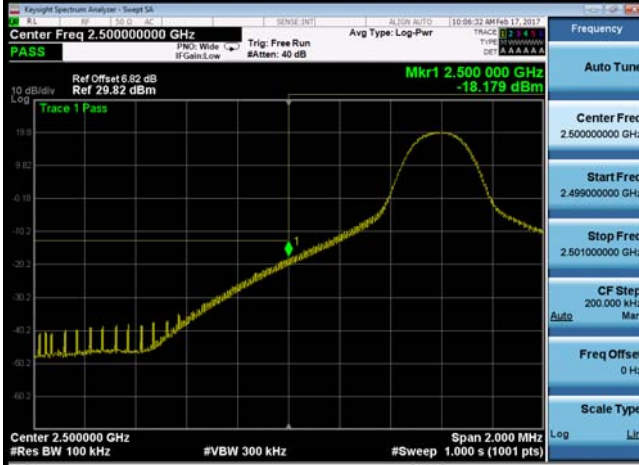
1RB49

Channel

20800

Channel

21400



50RB0

Channel

20800

Channel

21400



LTE Band 7_15M

1RB0

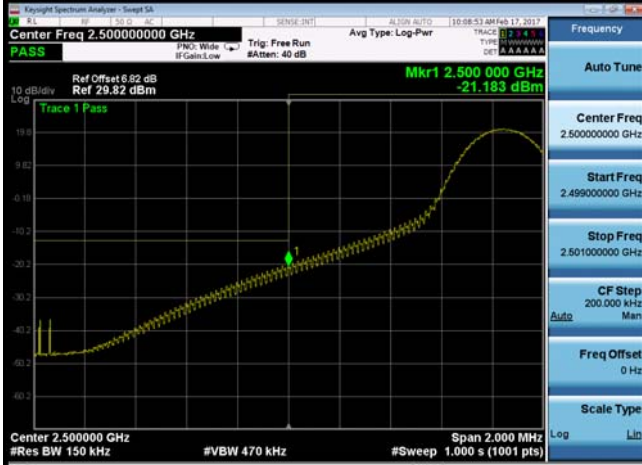
1RB74

Channel

20825

Channel

21375



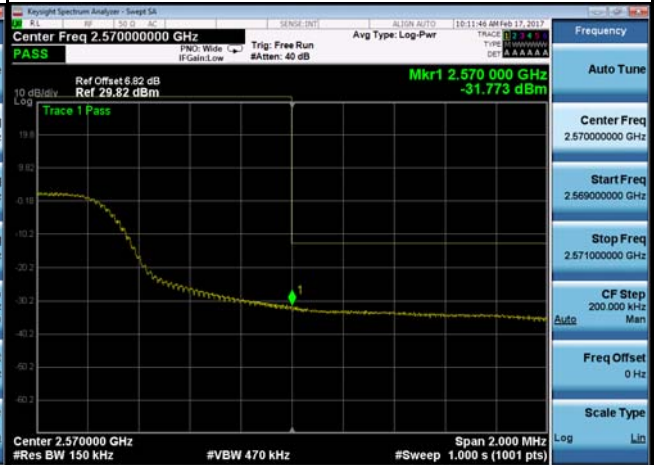
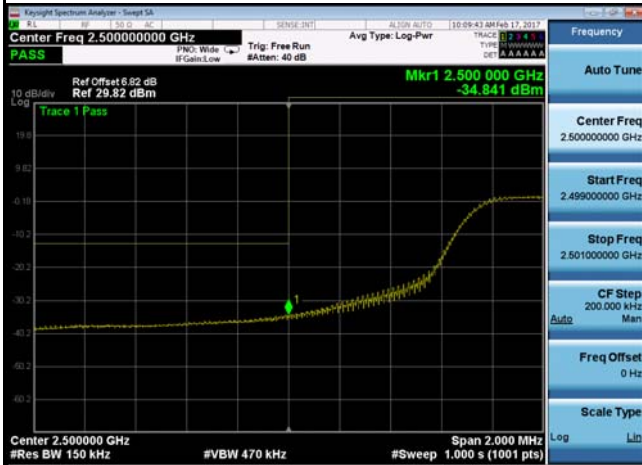
75RB0

Channel

20825

Channel

21375



LTE Band 7_20M

1RB0

1RB99

Channel

20850

Channel

21350



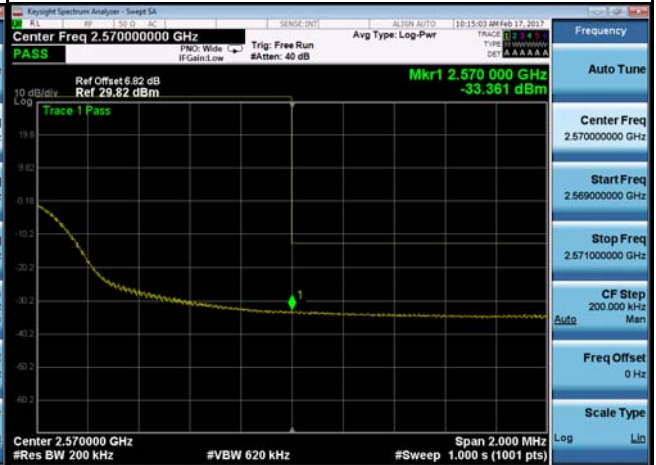
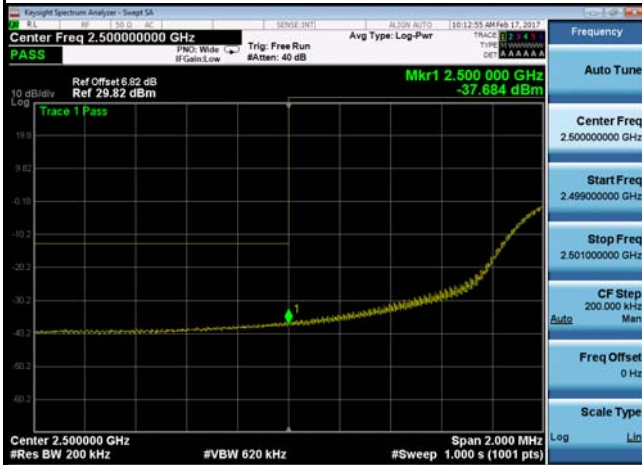
100RB0

Channel

20850

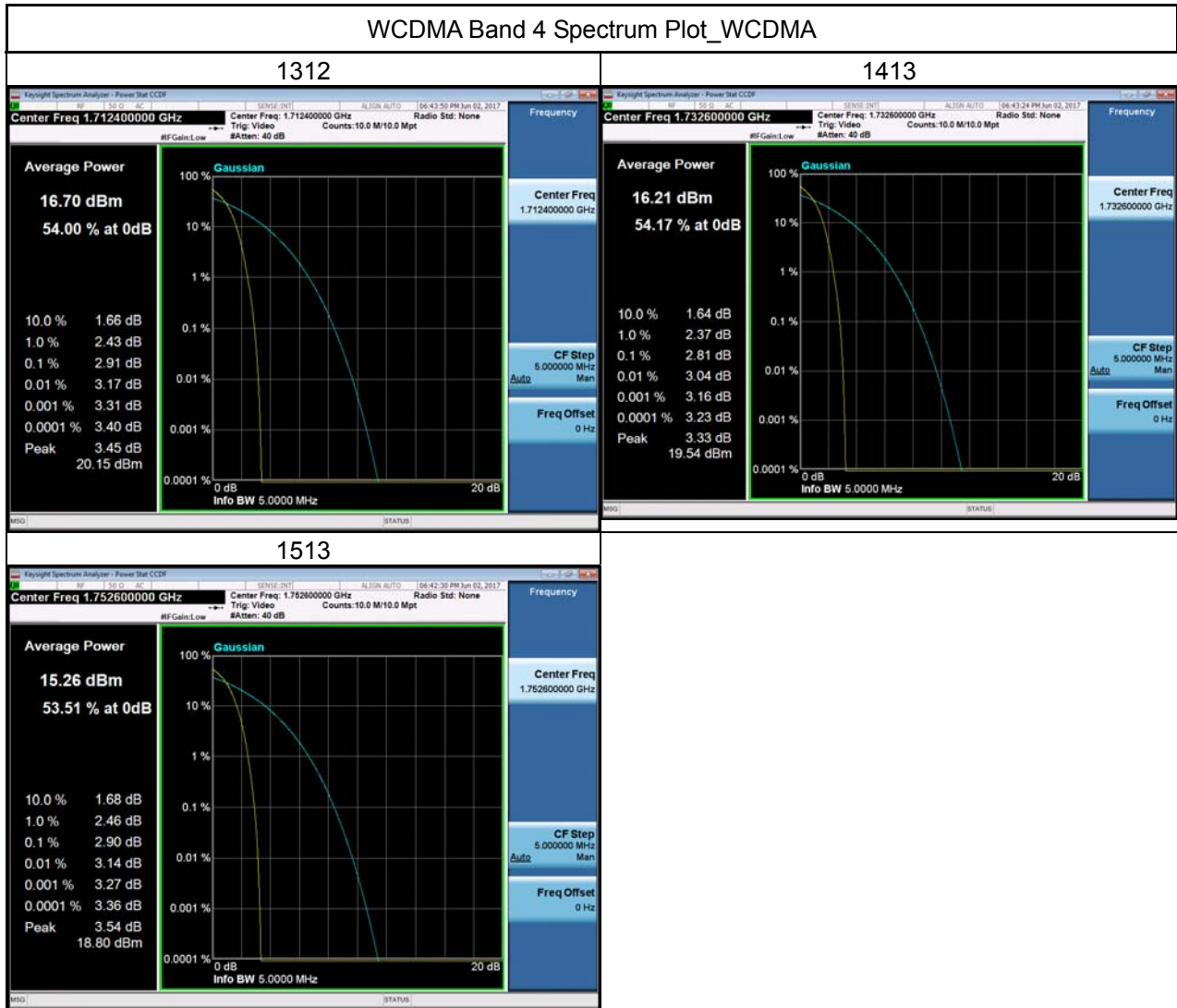
Channel

21350

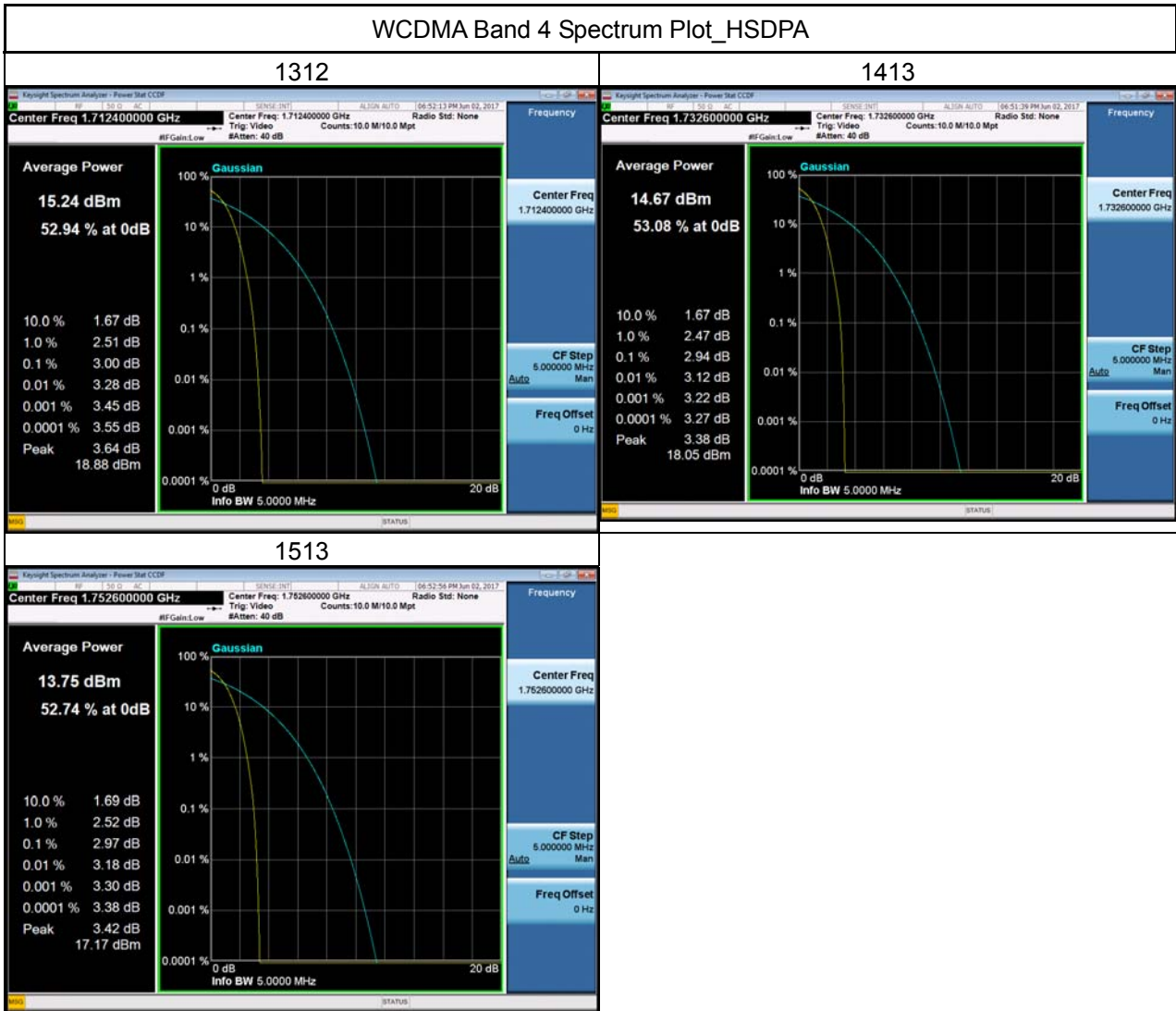


ATTACHMENT F - PEAK TO AVERAGE RATIO

WCDMA Band 4 WCDMA			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
1312	1712.4	2.91	13
1413	1732.6	2.81	13
1513	1752.6	2.90	13

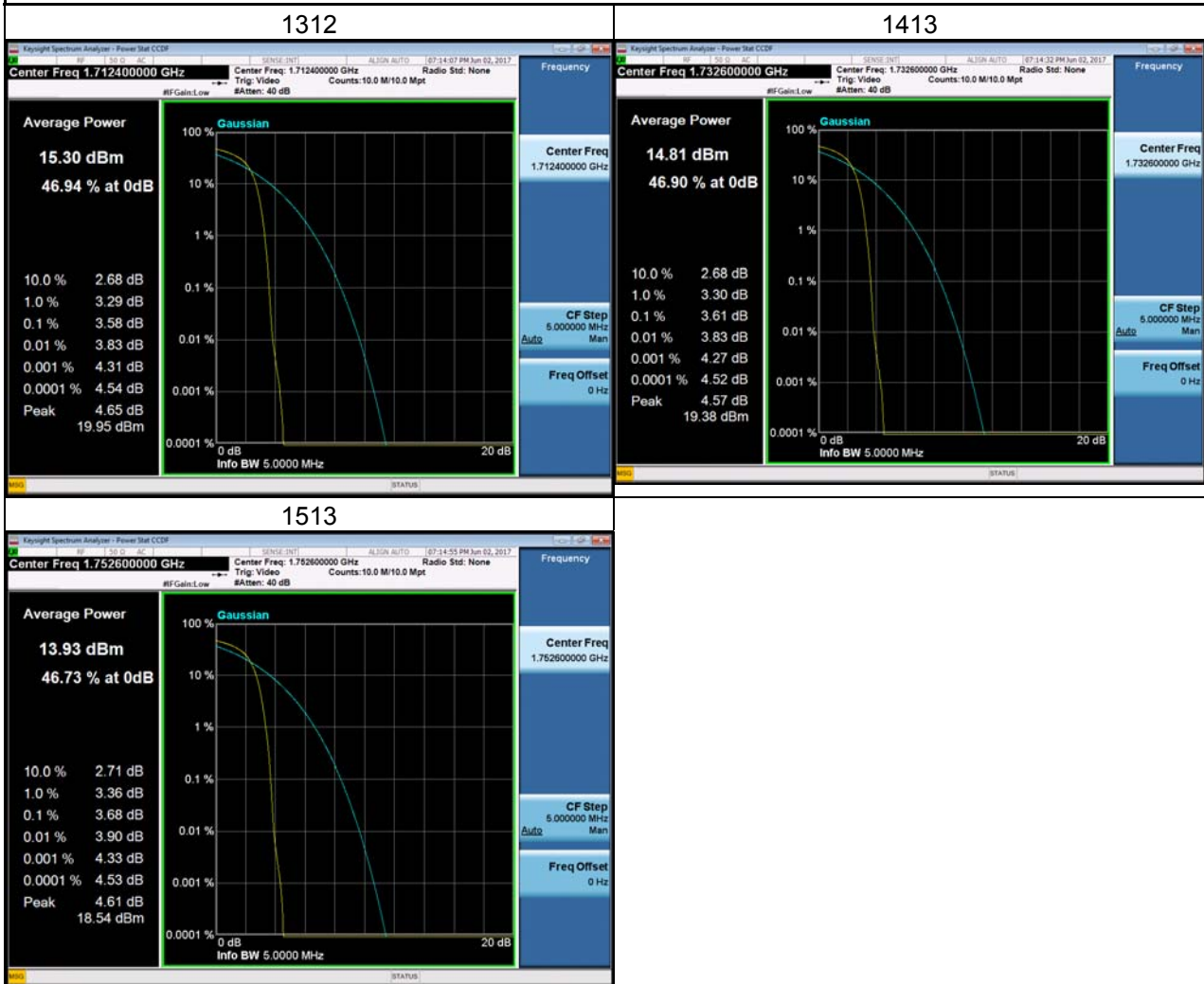


WCDMA Band 4 HSDPA			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
1312	1712.4	3.00	13
1413	1732.6	2.94	13
1513	1752.6	2.97	13



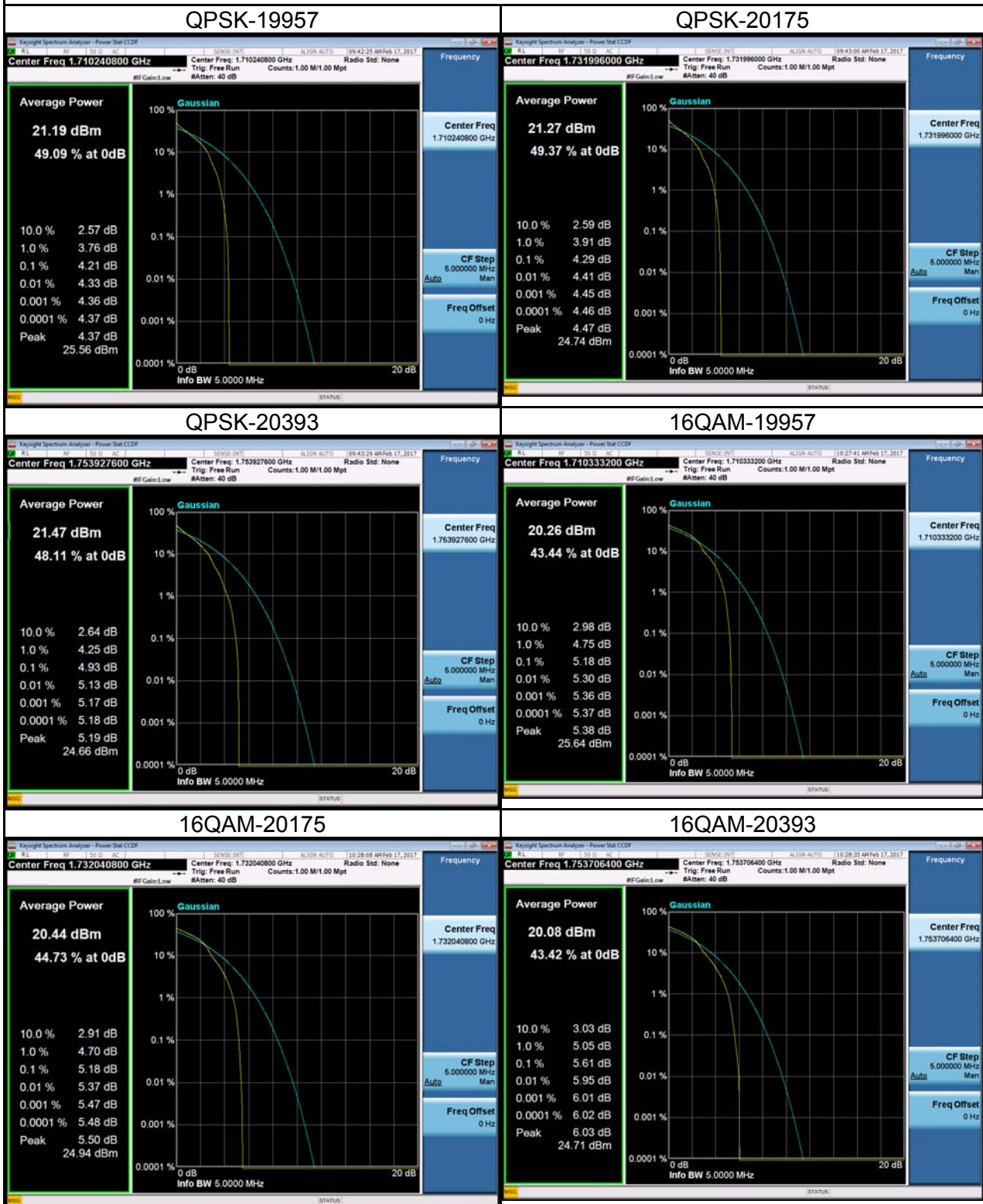
WCDMA Band 4 HSUPA			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
1312	1712.4	3.58	13
1413	1732.6	3.61	13
1513	1752.6	3.68	13

WCDMA Band 4 Spectrum Plot_HSUPA



LTE Band 4_1.4M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
19957	1710.7	4.21	13	19957	1710.7	5.18	13
20175	1732.5	4.29	13	20175	1732.5	5.18	13
20393	1754.3	4.93	13	20393	1754.3	5.61	13

LTE Band 4 Spectrum Plot_1.4M



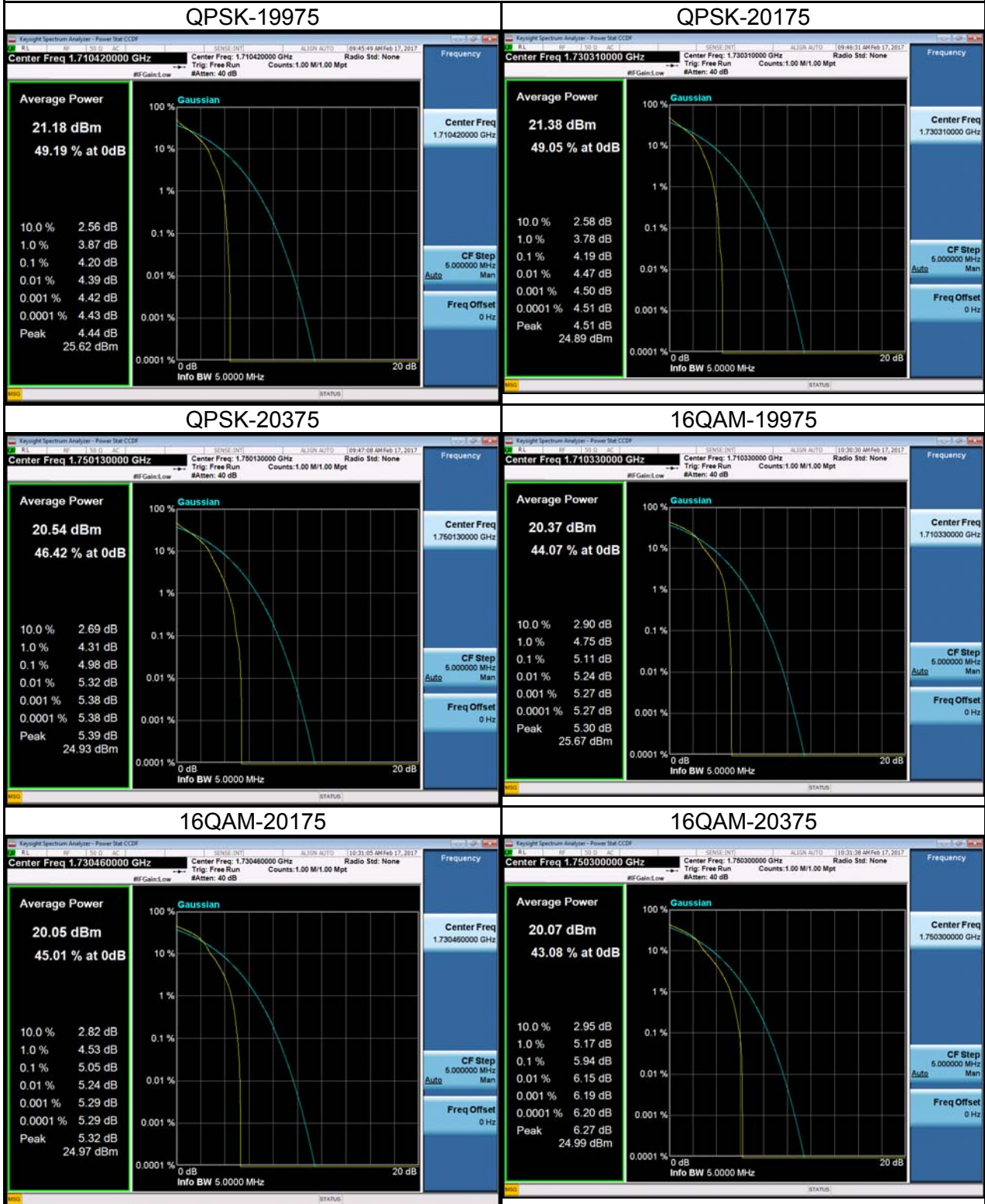
LTE Band 4_3M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
19965	1711.5	4.27	13	19965	1711.5	5.18	13
20175	1732.5	4.28	13	20175	1732.5	5.19	13
20385	1753.5	4.95	13	20385	1753.5	5.69	13

LTE Band 4 Spectrum Plot_3M



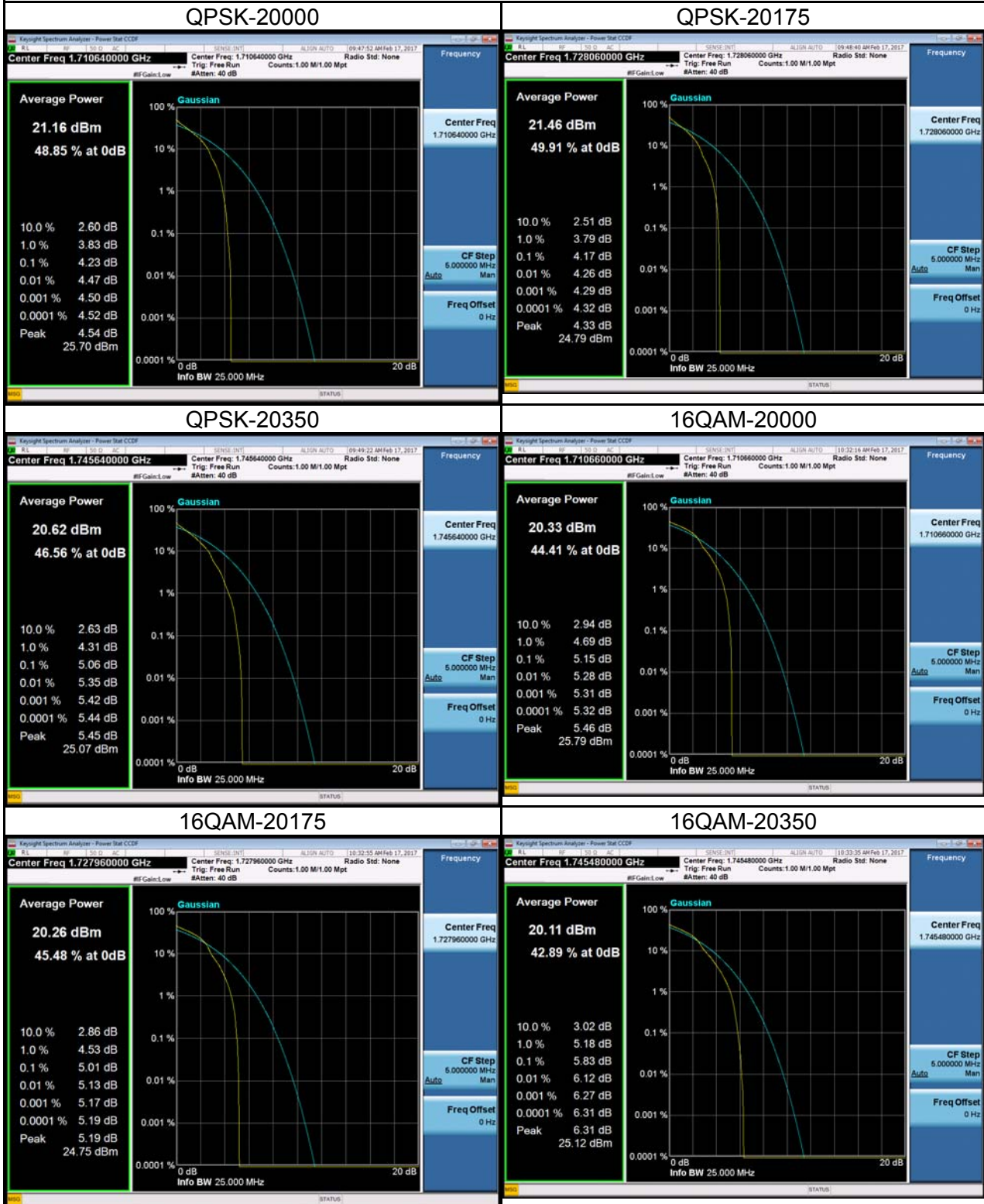
LTE Band 4_5M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
19975	1712.5	4.20	13	19975	1712.5	5.11	13
20175	1732.5	4.19	13	20175	1732.5	5.05	13
20375	1752.5	4.98	13	20375	1752.5	5.94	13

LTE Band 4 Spectrum Plot_5M



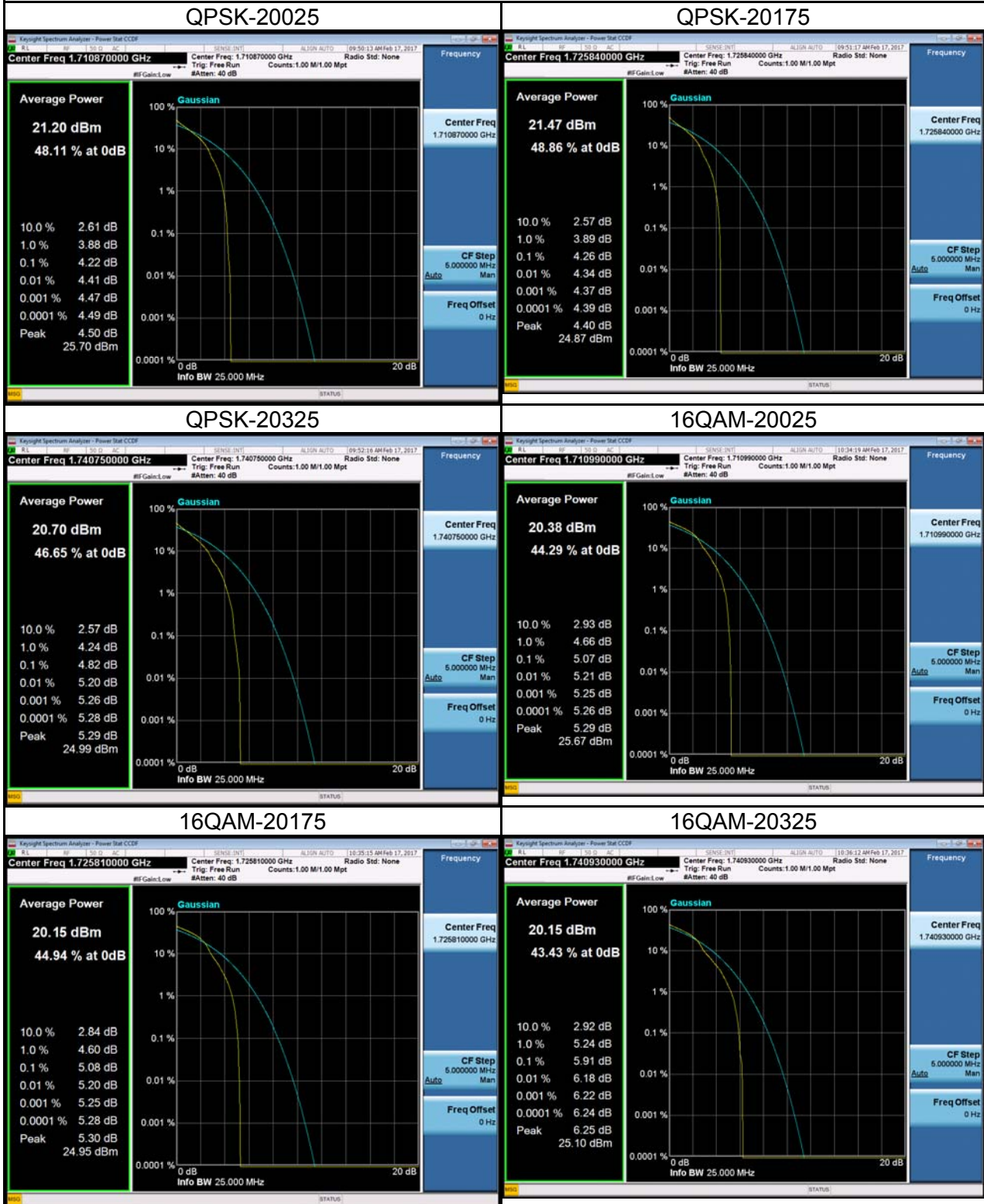
LTE Band 4_10M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20000	1715	4.23	13	20000	1715	5.15	13
20175	1732.5	4.17	13	20175	1732.5	5.01	13
20350	1750	5.06	13	20350	1750	5.83	13

LTE Band 4 Spectrum Plot_10M



LTE Band 4_15M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20025	1717.5	4.22	13	20025	1717.5	5.07	13
20175	1732.5	4.26	13	20175	1732.5	5.08	13
20325	1747.5	4.82	13	20325	1747.5	5.91	13

LTE Band 4 Spectrum Plot_15M



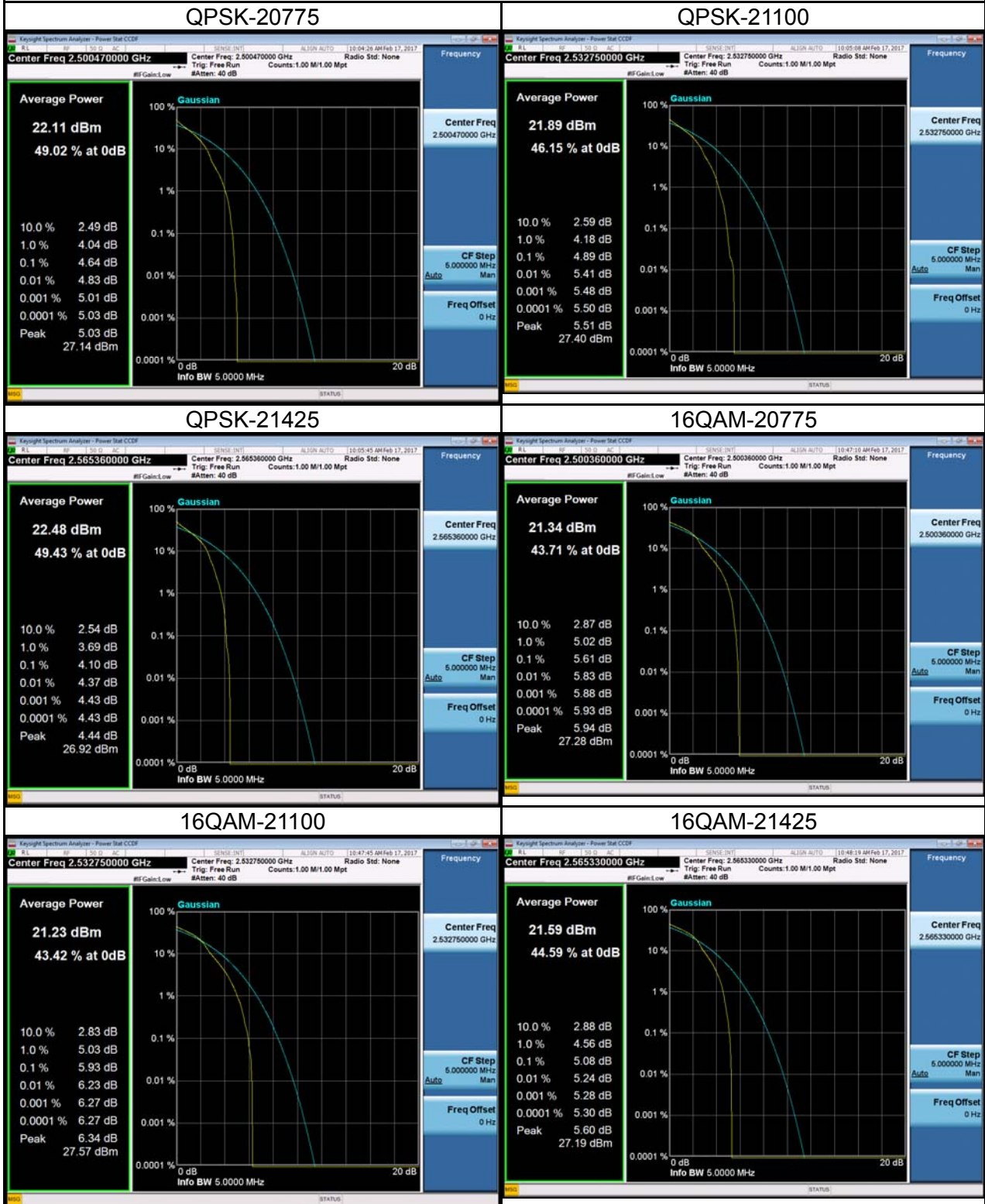
LTE Band 4_20M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20050	1720	4.21	13	20050	1720	5.04	13
20175	1732.5	4.22	13	20175	1732.5	5.15	13
20300	1745	4.57	13	20300	1745	5.41	13

LTE Band 4 Spectrum Plot_20M



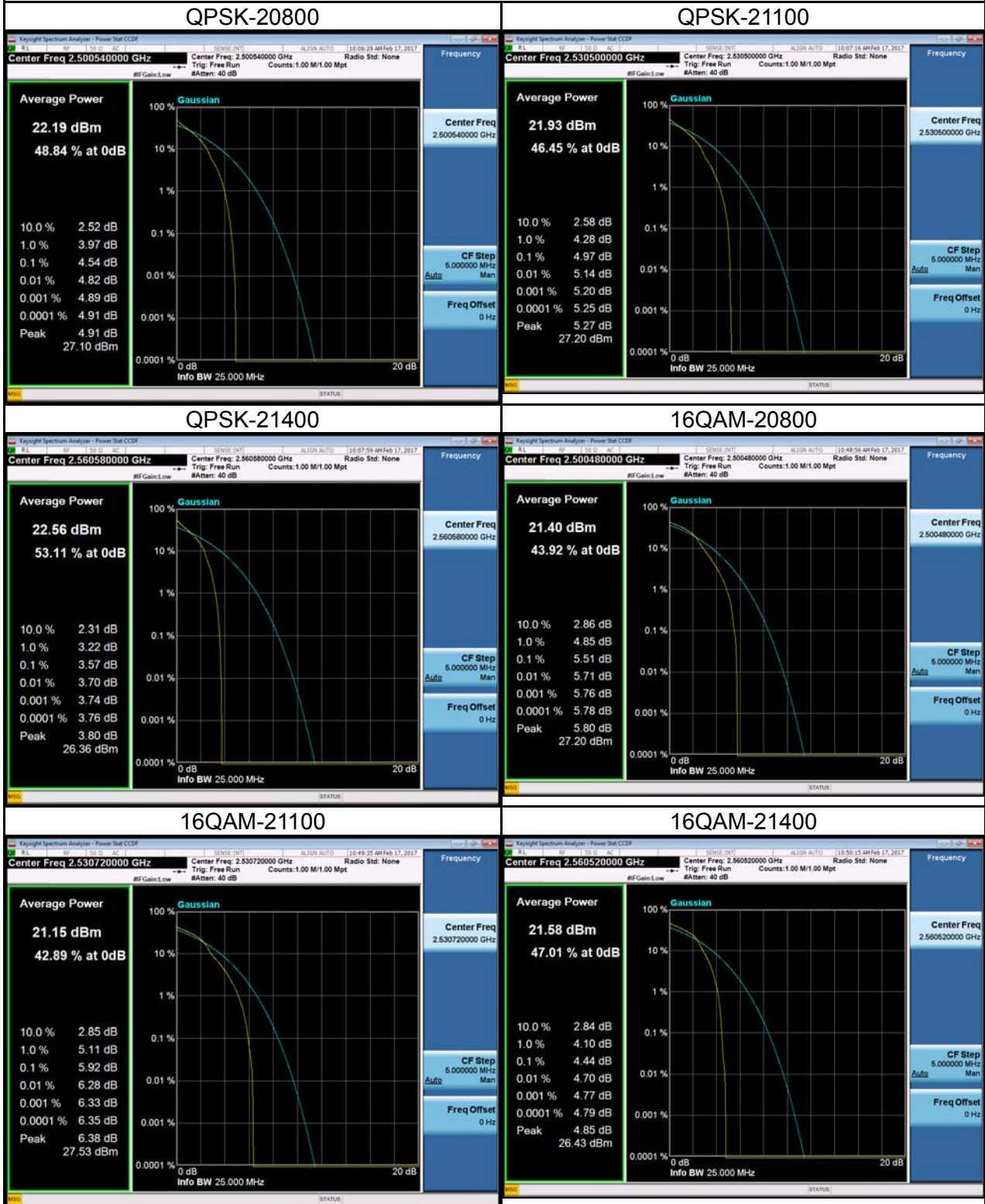
LTE Band 7_5M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20775	2502.5	4.64	13	20775	2502.5	5.61	13
21100	2535	4.89	13	21100	2535	5.93	13
21425	2567.5	4.10	13	21425	2567.5	5.08	13

LTE Band 7 Spectrum Plot_5M



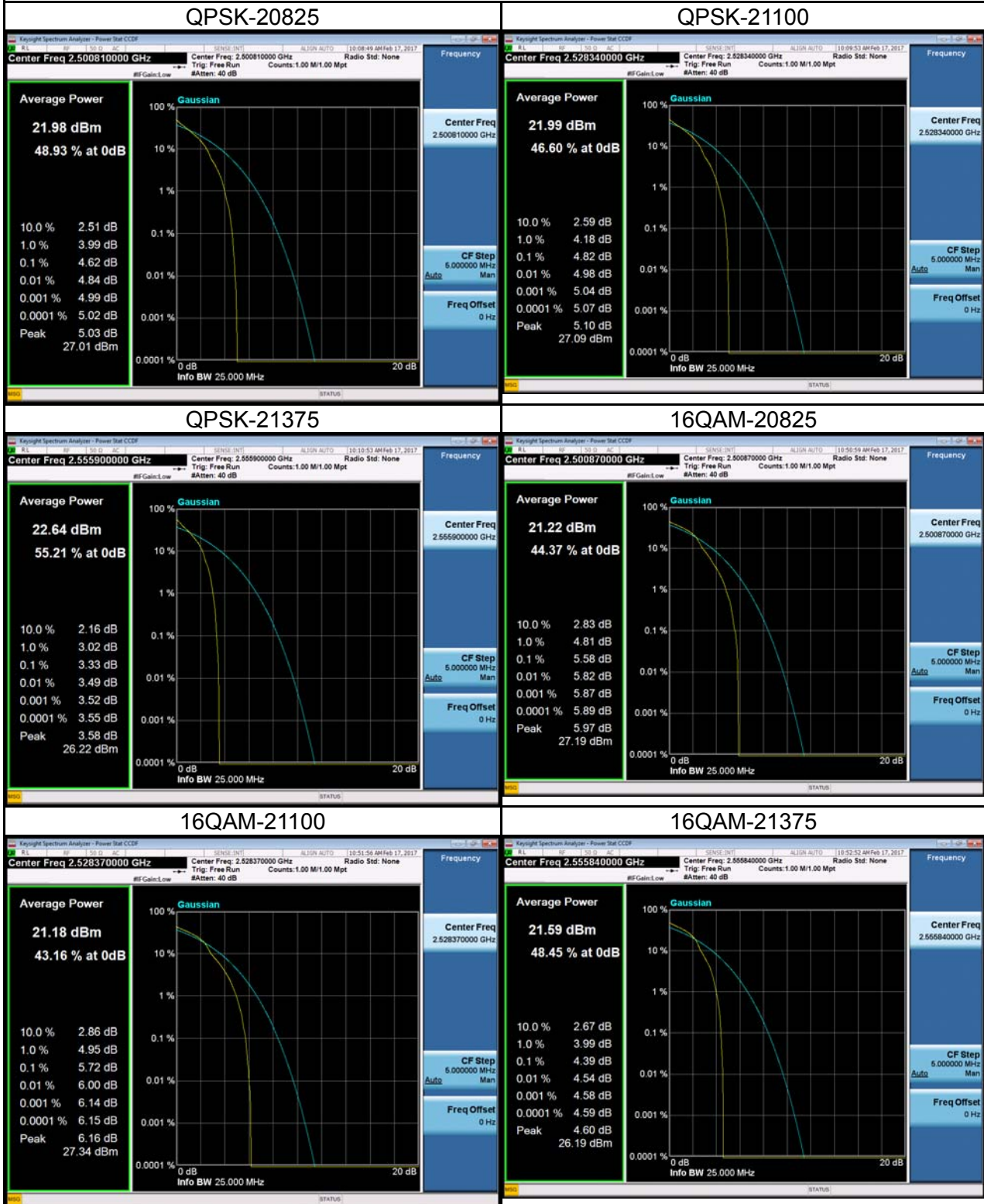
LTE Band 7_10M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20800	2505	4.54	13	20800	2505	5.51	13
21100	2535	4.97	13	21100	2535	5.92	13
21400	2565	3.57	13	21400	2565	4.44	13

LTE Band 7 Spectrum Plot_10M



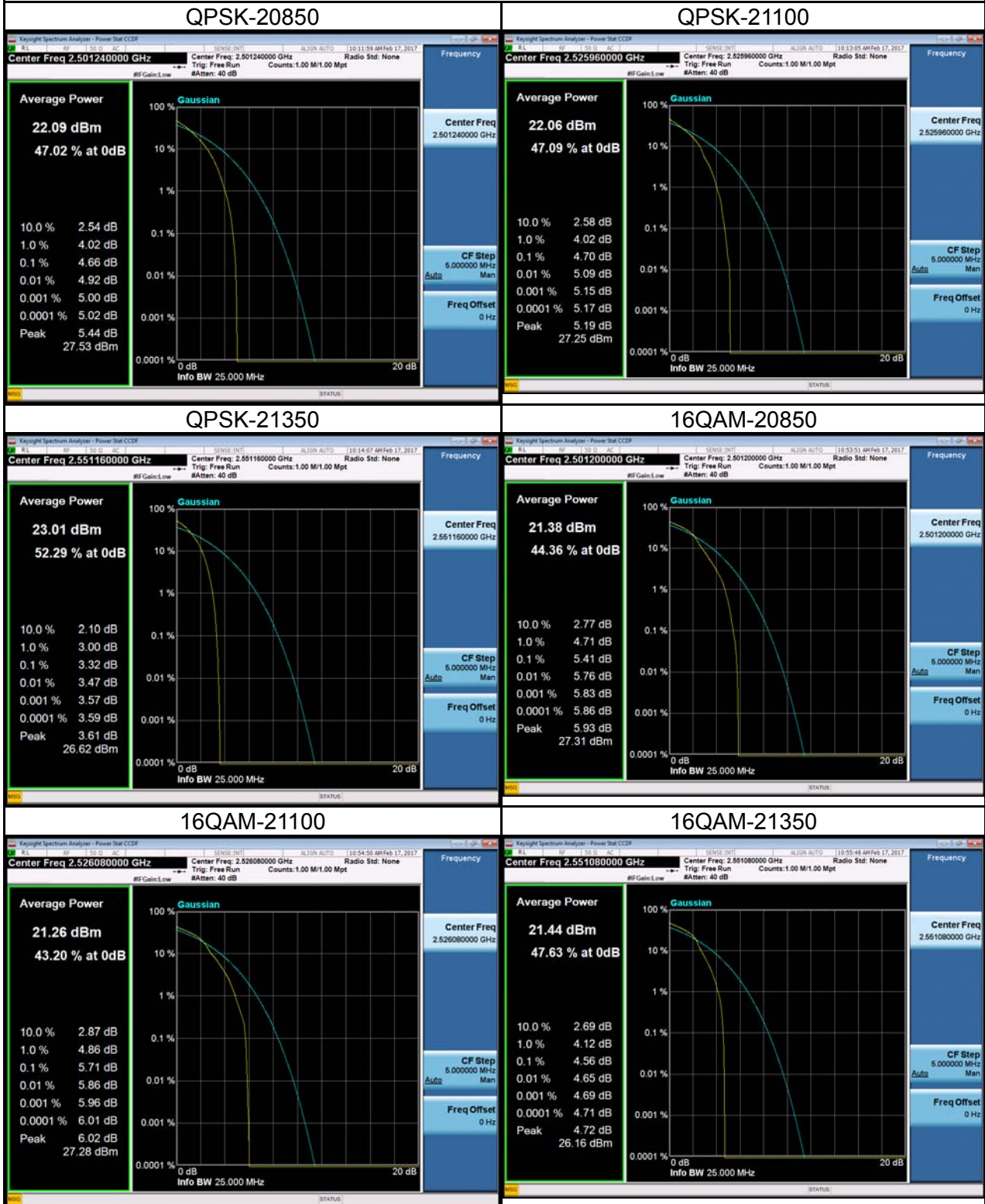
LTE Band 7_15M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20825	2507.5	4.62	13	20825	2507.5	5.58	13
21100	2535	4.82	13	21100	2535	5.72	13
21375	2562.5	3.33	13	21375	2562.5	4.39	13

LTE Band 7 Spectrum Plot_15M



LTE Band 7_20M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
20850	2510	4.66	13	20850	2510	5.41	13
21100	2535	4.70	13	21100	2535	5.71	13
21350	2560	3.32	13	21350	2560	4.56	13

LTE Band 7 Spectrum Plot_20M



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)
0	7.69	0.004438416	2.5
5	8.54	0.004929008	2.5
10	7.66	0.004421101	2.5
15	9.05	0.005223364	2.5
20	7.47	0.004311439	2.5
25	7.28	0.004201778	2.5
30	8.34	0.004813575	2.5
35	9.13	0.005269537	2.5
Max. Deviation (ppm)	9.13	0.005269537	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
Low	8.89	0.005131017	2.5
Middle	9.32	0.005379199	2.5
High	8.52	0.004917465	2.5
Max. Deviation (ppm)	9.32	0.005379199	2.5

Test Mode:	LTE Band 4_CH20175_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	3.88	0.002239538	2.5
5	2.56	0.001477633	2.5
10	-3.45	0.001991342	2.5
15	6.37	0.003676768	2.5
20	1.78	0.001027417	2.5
25	-2.33	0.001344877	2.5
30	-4.12	0.002378066	2.5
35	3.48	0.002008658	2.5
Max. Deviation (ppm)	6.37	0.003676768	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.15	0.001240981	2.5
4.0	3.67	0.002118326	2.5
4.2	2.09	0.001206349	2.5
Max. Deviation (ppm)	3.67	0.002118326	2.5

Test Mode:	LTE Band 4_CH20175_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-2.69	0.00155267	2.5
5	-3.33	0.001922078	2.5
10	5.69	0.003284271	2.5
15	4.59	0.002649351	2.5
20	2.36	0.001362193	2.5
25	-6.32	0.003647908	2.5
30	5.79	0.003341991	2.5
35	5.51	0.003180375	2.5
Max. Deviation (ppm)	6.32	0.003647908	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	1.28	0.000738817	2.5
4.0	-2.60	0.001500722	2.5
4.2	-5.34	0.003082251	2.5
Max. Deviation (ppm)	5.34	0.003082251	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)
0	3.22	0.001858586	2.5
5	-1.48	0.000854257	2.5
10	1.83	0.001056277	2.5
15	-2.36	0.001362193	2.5
20	5.68	0.003278499	2.5
25	-4.56	0.002632035	2.5
30	1.84	0.001062049	2.5
35	3.66	0.002112554	2.5
Max. Deviation (ppm)	5.68	0.003278499	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	6.77	0.003907648	2.5
4.0	-5.03	0.002903319	2.5
4.2	4.16	0.002401154	2.5
Max. Deviation (ppm)	6.77	0.003907648	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)
0	4.56	0.002632035	2.5
5	-3.92	0.002262626	2.5
10	-1.89	0.001090909	2.5
15	1.33	0.000767677	2.5
20	-2.68	0.001546898	2.5
25	-2.45	0.001414141	2.5
30	3.18	0.001835498	2.5
35	5.87	0.003388167	2.5
Max. Deviation (ppm)	5.87	0.003388167	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	3.75	0.002164502	2.5
4.0	-1.03	0.000594517	2.5
4.2	2.62	0.001512266	2.5
Max. Deviation (ppm)	3.75	0.002164502	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)
0	4.32	0.002493506	2.5
5	2.14	0.001235209	2.5
10	-6.08	0.00350938	2.5
15	2.33	0.001344877	2.5
20	-5.88	0.003393939	2.5
25	2.09	0.001206349	2.5
30	3.73	0.002152958	2.5
35	4.10	0.002366522	2.5
Max. Deviation (ppm)	6.08	0.00350938	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	5.51	0.003180375	2.5
4.0	6.38	0.00368254	2.5
4.2	-2.10	0.001212121	2.5
Max. Deviation (ppm)	6.38	0.00368254	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)
0	2.39	0.001379509	2.5
5	5.25	0.003030303	2.5
10	-5.42	0.003128427	2.5
15	2.30	0.001327561	2.5
20	5.08	0.002932179	2.5
25	4.09	0.00236075	2.5
30	4.11	0.002372294	2.5
35	7.77	0.004484848	2.5
Max. Deviation (ppm)	7.77	0.004484848	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	5.34	0.003082251	2.5
4.0	2.13	0.001229437	2.5
4.2	4.82	0.002782107	2.5
Max. Deviation (ppm)	5.34	0.003082251	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)
0	3.20	0.001262327	2.5
5	-6.24	0.002461538	2.5
10	1.98	0.000781065	2.5
15	-3.99	0.001573964	2.5
20	1.07	0.000422091	2.5
25	5.16	0.002035503	2.5
30	2.34	0.000923077	2.5
35	-1.99	0.00078501	2.5
Max. Deviation (ppm)	6.24	0.002461538	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	6.64	0.002619329	2.5
4.0	6.27	0.002473373	2.5
4.2	3.57	0.001408284	2.5
Max. Deviation (ppm)	6.64	0.002619329	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)
0	3.22	0.001270217	2.5
5	6.14	0.002422091	2.5
10	-6.97	0.002749507	2.5
15	3.28	0.001293886	2.5
20	3.74	0.001475345	2.5
25	-4.61	0.00181854	2.5
30	5.14	0.002027613	2.5
35	3.24	0.001278107	2.5
Max. Deviation (ppm)	6.14	0.002749507	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	3.19	0.001258383	2.5
4.0	5.21	0.002055227	2.5
4.2	-3.69	0.001455621	2.5
Max. Deviation (ppm)	5.21	0.002055227	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)
0	3.14	0.001238659	2.5
5	-5.21	0.002055227	2.5
10	-6.28	0.002477318	2.5
15	-3.08	0.00121499	2.5
20	2.27	0.000895464	2.5
25	1.66	0.000654832	2.5
30	5.14	0.002027613	2.5
35	2.68	0.001057199	2.5
Max. Deviation (ppm)	6.28	0.002477318	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.12	0.000836292	2.5
4.0	1.87	0.000737673	2.5
4.2	-2.94	0.001159763	2.5
Max. Deviation (ppm)	2.94	0.001159763	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)
0	3.75	0.00147929	2.5
5	1.28	0.000504931	2.5
10	-6.29	0.002481262	2.5
15	1.82	0.000717949	2.5
20	4.37	0.001723866	2.5
25	5.24	0.002067061	2.5
30	-1.18	0.000465483	2.5
35	5.02	0.001980276	2.5
Max. Deviation (ppm)	6.29	0.002481262	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	1.33	0.000524655	2.5
4.0	5.14	0.002027613	2.5
4.2	3.62	0.001428008	2.5
Max. Deviation (ppm)	5.14	0.002027613	2.5