

APPENDIX A - OUTPUT POWER

Output Power (dBm):

Modulation	Band	WCDMA IV		
	Tx Channel	1312CH	1413CH	1513CH
	Frequency	1712.4MHz	1732.6MHz	1752.6MHz
BPSK	RMC 12.2K	22.63	22.73	22.91
	RMC 64K	22.66	22.74	22.91
	RMC 144K	22.67	22.75	22.89
	RMC 384K	22.61	22.62	22.76
16QAM	HSDPA Subtest-1	22.56	22.65	22.77
	HSDPA Subtest-2	22.91	23.04	22.98
	HSDPA Subtest-3	22.43	22.52	22.55
	HSDPA Subtest-4	22.42	22.59	22.49
16QAM	HSUPA Subtest-1	21.59	21.43	21.65
	HSUPA Subtest-2	19.93	19.73	20.24
	HSUPA Subtest-3	20.34	20.56	20.78
	HSUPA Subtest-4	19.86	19.98	20.21
	HSUPA Subtest-5	22.93	23.07	23.12

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19957CH	20175CH	20393CH
				1710.7MHz	1732.5MHz	1754.3MHz
4 / 1.4M	QPSK	1	0	21.92	22.90	22.91
		1	2	21.99	23.02	23.13
		1	5	21.94	22.86	23.20
		3	0	21.95	22.90	23.00
		3	1	21.95	22.98	23.07
		3	2	21.99	22.97	23.19
		6	0	20.96	21.82	22.01
	16QAM	1	0	20.95	22.07	21.81
		1	2	21.03	22.08	21.98
		1	5	20.96	22.02	22.08
		3	0	21.01	21.78	21.95
		3	1	21.00	21.80	22.01
		3	2	20.99	21.81	22.10
		6	0	20.51	21.28	21.64

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19965CH	20175CH	20385CH
				1711.5MHz	1732.5MHz	1753.5MHz
4 / 3M	QPSK	1	0	21.75	22.75	22.49
		1	7	22.05	23.04	22.97
		1	14	21.71	22.64	22.98
		8	0	20.88	21.73	21.59
		8	4	20.93	21.79	21.74
		8	7	20.86	21.71	21.79
		15	0	20.88	21.76	21.66
	16QAM	1	0	21.02	21.59	21.52
		1	7	21.28	21.92	21.99
		1	14	20.95	21.54	22.03
		8	0	20.44	21.28	21.20
		8	4	20.45	21.29	21.36
		8	7	20.30	21.20	21.40
		15	0	20.35	21.18	21.23

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19975CH	20175CH	20375CH
				1712.5MHz	1732.5MHz	1752.5MHz
4 / 5M	QPSK	1	0	21.69	22.78	22.39
		1	13	21.94	23.00	22.77
		1	24	21.32	22.19	22.61
		12	0	20.89	21.77	21.51
		12	6	20.94	21.75	21.63
		12	11	20.87	21.63	21.58
		25	0	20.77	21.67	21.53
	16QAM	1	0	20.96	21.66	21.59
		1	13	21.19	21.90	21.91
		1	24	20.53	21.06	21.71
		12	0	20.38	21.38	20.95
		12	6	20.40	21.35	21.17
		12	11	20.33	21.23	21.14
		25	0	20.22	21.16	21.08

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20000CH	20175CH	20350CH
				1715MHz	1732.5MHz	1750MHz
4 / 10M	QPSK	1	0	21.60	22.71	22.30
		1	25	22.03	23.03	22.61
		1	49	21.60	22.07	22.49
		25	0	20.83	21.79	21.27
		25	13	20.76	21.70	21.44
		25	25	20.86	21.59	21.44
		50	0	20.99	21.60	21.33
	16QAM	1	0	20.75	21.78	21.24
		1	25	21.23	22.02	21.66
		1	49	20.74	21.15	21.44
		25	0	20.26	21.32	20.71
		25	13	20.22	21.21	20.93
		25	25	20.37	21.05	20.94
		50	0	20.43	21.09	20.80

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20025CH	20175CH	20325CH
				1717.5MHz	1732.5MHz	1747.5MHz
4 / 15M	QPSK	1	0	21.74	22.72	22.35
		1	38	22.24	22.94	22.64
		1	74	22.16	21.97	22.41
		36	0	20.86	21.86	21.40
		36	18	21.04	21.74	21.39
		36	39	21.10	21.60	21.30
		75	0	21.12	21.69	21.37
	16QAM	1	0	20.73	21.71	21.31
		1	38	21.32	21.97	21.58
		1	74	21.20	20.98	21.37
		36	0	20.30	21.35	20.85
		36	18	20.57	21.19	20.92
		36	39	20.60	21.14	20.87
		75	0	20.59	21.15	20.88

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20050CH	20175CH	20300CH
				1720MHz	1732.5MHz	1745MHz
4 / 20M	QPSK	1	0	21.76	22.37	22.45
		1	50	22.51	23.03	22.49
		1	99	22.21	22.00	22.28
		50	0	20.88	21.80	21.52
		50	25	21.24	21.70	21.37
		50	50	21.49	21.60	21.26
		100	0	21.31	21.80	21.33
	16QAM	1	0	20.81	21.44	21.53
		1	50	21.58	22.02	21.71
		1	99	21.29	21.05	21.37
		50	0	20.41	21.28	21.03
		50	25	20.67	21.15	20.89
		50	50	20.98	21.14	20.77
		100	0	20.69	21.18	20.78

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20775CH	21100CH	21425CH
				2502.5MHz	2535MHz	2567.5MHz
7 / 5M	QPSK	1	0	21.64	21.79	22.20
		1	13	21.86	22.01	22.26
		1	24	21.43	21.64	21.81
		12	0	20.83	20.89	21.48
		12	6	20.93	20.94	21.51
		12	11	20.85	20.97	21.41
		25	0	20.81	20.93	21.44
	16QAM	1	0	21.00	21.12	21.76
		1	13	21.21	21.44	21.77
		1	24	20.80	21.03	21.32
		12	0	20.24	20.27	20.42
		12	6	20.30	20.41	20.74
		12	11	20.26	20.31	20.60
		25	0	20.05	20.27	20.68

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20800CH	21100CH	21400CH
				2505MHz	2535MHz	2565MHz
7 / 10M	QPSK	1	0	21.75	21.99	22.34
		1	25	22.07	22.35	22.40
		1	49	21.68	21.99	21.90
		25	0	20.77	20.90	21.53
		25	13	20.84	21.04	21.42
		25	25	20.77	20.99	21.32
		50	0	20.81	20.96	21.54
	16QAM	1	0	20.80	21.10	21.64
		1	25	21.05	21.43	21.67
		1	49	20.72	21.12	21.21
		25	0	19.92	20.11	20.70
		25	13	20.08	20.21	20.64
		25	25	20.01	20.16	20.62
		50	0	19.98	20.13	20.76

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20825CH	21100CH	21375CH
				2507.5MHz	2535MHz	2562.5MHz
7 / 15M	QPSK	1	0	21.75	21.83	22.34
		1	38	22.20	22.41	22.40
		1	74	21.53	21.99	21.61
		36	0	20.81	20.86	21.48
		36	18	20.94	21.00	21.44
		36	39	20.80	21.03	21.30
		75	0	20.86	21.00	21.54
	16QAM	1	0	20.91	20.93	21.53
		1	38	21.30	21.48	21.65
		1	74	20.70	21.24	20.92
		36	0	19.98	20.09	20.48
		36	18	20.20	20.18	20.75
		36	39	20.00	20.14	20.58
		75	0	20.05	20.09	20.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20850CH	21100CH	21350CH
				2510MHz	2535MHz	2560MHz
7 / 20M	QPSK	1	0	21.85	21.76	22.55
		1	50	22.27	22.46	22.52
		1	99	21.55	22.12	21.71
		50	0	20.97	21.04	21.74
		50	25	20.98	21.17	21.64
		50	50	20.87	21.32	21.39
		100	0	20.92	21.12	21.67
	16QAM	1	0	21.10	20.99	21.97
		1	50	21.34	21.36	22.00
		1	99	20.61	21.29	21.22
		50	0	20.04	20.13	20.77
		50	25	20.14	20.26	20.93
		50	50	20.04	20.28	20.64
		100	0	20.07	20.17	20.89

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23017CH	23095CH	23173CH
				699.7MHz	707.5MHz	715.3MHz
12 / 1.4M	QPSK	1	0	22.28	22.87	22.90
		1	2	22.34	22.92	23.09
		1	5	22.27	22.69	23.22
		3	0	22.30	22.90	22.92
		3	1	22.32	22.90	23.06
		3	2	22.28	22.91	23.13
		6	0	22.19	22.79	22.93
	16QAM	1	0	21.26	22.14	21.97
		1	2	21.36	22.18	22.06
		1	5	21.27	21.94	22.30
		3	0	21.47	22.00	22.12
		3	1	21.48	22.01	22.18
		3	2	21.45	22.03	22.22
		6	0	21.33	21.80	22.06

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23025CH	23095CH	23165CH
				700.5MHz	707.5MHz	714.5MHz
12 / 3M	QPSK	1	0	22.09	22.82	22.48
		1	7	22.47	22.99	23.01
		1	14	22.18	22.39	22.99
		8	0	22.16	22.69	22.63
		8	4	22.28	22.67	22.74
		8	7	22.25	22.57	22.77
		15	0	22.21	22.61	22.69
	16QAM	1	0	21.46	22.06	21.60
		1	7	21.74	22.35	22.04
		1	14	21.49	21.72	22.00
		8	0	21.21	21.80	21.67
		8	4	21.33	21.82	21.78
		8	7	21.30	21.66	21.80
		15	0	21.27	21.67	21.64

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23035CH	23095CH	23155CH
				701.5MHz	707.5MHz	713.5MHz
12 / 5M	QPSK	1	0	22.49	23.21	22.72
		1	13	22.46	22.82	22.80
		1	24	22.80	22.67	23.17
		12	0	22.07	22.66	22.42
		12	6	22.24	22.62	22.65
		12	11	22.17	22.56	22.69
		25	0	22.15	22.55	22.52
	16QAM	1	0	21.83	22.53	22.11
		1	13	21.68	22.19	22.19
		1	24	22.04	21.97	22.71
		12	0	21.15	21.78	21.38
		12	6	21.31	21.70	21.62
		12	11	21.25	21.61	21.67
		25	0	21.10	21.56	21.41

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23060CH	23095CH	23130CH
				704MHz	707.5MHz	711MHz
12 / 10M	QPSK	1	0	22.50	22.80	23.18
		1	25	22.85	22.91	22.62
		1	49	22.46	22.37	22.82
		25	0	22.08	22.46	22.30
		25	13	22.50	22.50	22.21
		25	25	22.31	22.10	22.16
		50	0	22.23	22.35	22.23
	16QAM	1	0	21.87	22.06	22.32
		1	25	22.13	22.21	21.76
		1	49	21.77	21.62	22.03
		25	0	21.09	21.49	21.29
		25	13	21.47	21.59	21.22
		25	25	21.34	21.09	21.15
		50	0	21.19	21.34	21.24

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23205CH	23230CH	23255CH
				779.5MHz	782MHz	784.5MHz
13 / 5M	QPSK	1	0	22.96	23.01	23.21
		1	13	22.55	23.01	22.85
		1	24	23.13	23.15	22.99
		12	0	21.54	21.62	21.65
		12	6	21.46	21.86	21.63
		12	11	21.50	21.59	21.44
		25	0	21.50	21.57	21.46
	16QAM	1	0	22.96	21.91	21.94
		1	13	22.97	21.56	21.71
		1	24	22.99	21.93	21.89
		12	0	21.36	21.59	21.68
		12	6	21.63	21.54	21.94
		12	11	21.32	21.58	21.66
		25	0	21.32	21.45	21.56

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				23230CH
				782MHz
13 / 10M	QPSK	1	0	22.18
		1	25	21.69
		1	49	21.95
		25	0	21.58
		25	13	21.58
		25	25	21.41
		50	0	21.40
	16QAM	1	0	21.91
		1	25	21.72
		1	49	21.70
		25	0	21.29
		25	13	21.54
		25	25	21.25
		50	0	21.26

EIRP Power (dBm):

Modulation	Band	WCDMA IV		
	Tx Channel	1312CH	1413CH	1513CH
	Frequency	1712.4MHz	1732.6MHz	1752.6MHz
BPSK	RMC 12.2K	25.13	25.23	25.41
	RMC 64K	25.16	25.24	25.41
	RMC 144K	25.17	25.25	25.39
	RMC 384K	25.11	25.12	25.26
16QAM	HSDPA Subtest-1	25.06	25.15	25.27
	HSDPA Subtest-2	25.41	25.54	25.48
	HSDPA Subtest-3	24.93	25.02	25.05
	HSDPA Subtest-4	24.92	25.09	24.99
16QAM	HSUPA Subtest-1	24.09	23.93	24.15
	HSUPA Subtest-2	22.43	22.23	22.74
	HSUPA Subtest-3	22.84	23.06	23.28
	HSUPA Subtest-4	22.36	22.48	22.71
	HSUPA Subtest-5	25.43	25.57	25.62

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19957CH	20175CH	20393CH
				1710.7MHz	1732.5MHz	1754.3MHz
4 / 1.4M	QPSK	1	0	24.42	25.40	25.41
		1	2	24.49	25.52	25.63
		1	5	24.44	25.36	25.70
		3	0	24.45	25.40	25.50
		3	1	24.45	25.48	25.57
		3	2	24.49	25.47	25.69
		6	0	23.46	24.32	24.51
	16QAM	1	0	23.45	24.57	24.31
		1	2	23.53	24.58	24.48
		1	5	23.46	24.52	24.58
		3	0	23.51	24.28	24.45
		3	1	23.50	24.30	24.51
		3	2	23.49	24.31	24.60
		6	0	23.01	23.78	24.14

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19965CH	20175CH	20385CH
				1711.5MHz	1732.5MHz	1753.5MHz
4 / 3M	QPSK	1	0	24.25	25.25	24.99
		1	7	24.55	25.54	25.47
		1	14	24.21	25.14	25.48
		8	0	23.38	24.23	24.09
		8	4	23.43	24.29	24.24
		8	7	23.36	24.21	24.29
		15	0	23.38	24.26	24.16
	16QAM	1	0	23.52	24.09	24.02
		1	7	23.78	24.42	24.49
		1	14	23.45	24.04	24.53
		8	0	22.94	23.78	23.70
		8	4	22.95	23.79	23.86
		8	7	22.80	23.70	23.90
		15	0	22.85	23.68	23.73

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				19975CH	20175CH	20375CH
				1712.5MHz	1732.5MHz	1752.5MHz
4 / 5M	QPSK	1	0	24.19	25.28	24.89
		1	13	24.44	25.50	25.27
		1	24	23.82	24.69	25.11
		12	0	23.39	24.27	24.01
		12	6	23.44	24.25	24.13
		12	11	23.37	24.13	24.08
		25	0	23.27	24.17	24.03
	16QAM	1	0	23.46	24.16	24.09
		1	13	23.69	24.40	24.41
		1	24	23.03	23.56	24.21
		12	0	22.88	23.88	23.45
		12	6	22.90	23.85	23.67
		12	11	22.83	23.73	23.64
		25	0	22.72	23.66	23.58

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20000CH	20175CH	20350CH
				1715MHz	1732.5MHz	1750MHz
4 / 10M	QPSK	1	0	24.10	25.21	24.80
		1	25	24.53	25.53	25.11
		1	49	24.10	24.57	24.99
		25	0	23.33	24.29	23.77
		25	13	23.26	24.20	23.94
		25	25	23.36	24.09	23.94
		50	0	23.49	24.10	23.83
	16QAM	1	0	23.25	24.28	23.74
		1	25	23.73	24.52	24.16
		1	49	23.24	23.65	23.94
		25	0	22.76	23.82	23.21
		25	13	22.72	23.71	23.43
		25	25	22.87	23.55	23.44
		50	0	22.93	23.59	23.30

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20025CH	20175CH	20325CH
				1717.5MHz	1732.5MHz	1747.5MHz
4 / 15M	QPSK	1	0	24.24	25.22	24.85
		1	38	24.74	25.44	25.14
		1	74	24.66	24.47	24.91
		36	0	23.36	24.36	23.90
		36	18	23.54	24.24	23.89
		36	39	23.60	24.10	23.80
		75	0	23.62	24.19	23.87
	16QAM	1	0	23.23	24.21	23.81
		1	38	23.82	24.47	24.08
		1	74	23.70	23.48	23.87
		36	0	22.80	23.85	23.35
		36	18	23.07	23.69	23.42
		36	39	23.10	23.64	23.37
		75	0	23.09	23.65	23.38

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20050CH	20175CH	20300CH
				1720MHz	1732.5MHz	1745MHz
4 / 20M	QPSK	1	0	24.26	24.87	24.95
		1	50	25.01	25.53	24.99
		1	99	24.71	24.50	24.78
		50	0	23.38	24.30	24.02
		50	25	23.74	24.20	23.87
		50	50	23.99	24.10	23.76
		100	0	23.81	24.30	23.83
	16QAM	1	0	23.31	23.94	24.03
		1	50	24.08	24.52	24.21
		1	99	23.79	23.55	23.87
		50	0	22.91	23.78	23.53
		50	25	23.17	23.65	23.39
		50	50	23.48	23.64	23.27
		100	0	23.19	23.68	23.28

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20775CH	21100CH	21425CH
				2502.5MHz	2535MHz	2567.5MHz
7 / 5M	QPSK	1	0	24.14	24.29	24.70
		1	13	24.36	24.51	24.76
		1	24	23.93	24.14	24.31
		12	0	23.33	23.39	23.98
		12	6	23.43	23.44	24.01
		12	11	23.35	23.47	23.91
		25	0	23.31	23.43	23.94
	16QAM	1	0	23.50	23.62	24.26
		1	13	23.71	23.94	24.27
		1	24	23.30	23.53	23.82
		12	0	22.74	22.77	22.92
		12	6	22.80	22.91	23.24
		12	11	22.76	22.81	23.10
		25	0	22.55	22.77	23.18

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20800CH	21100CH	21400CH
				2505MHz	2535MHz	2565MHz
7 / 10M	QPSK	1	0	24.25	24.49	24.84
		1	25	24.57	24.85	24.90
		1	49	24.18	24.49	24.40
		25	0	23.27	23.40	24.03
		25	13	23.34	23.54	23.92
		25	25	23.27	23.49	23.82
		50	0	23.31	23.46	24.04
	16QAM	1	0	23.30	23.60	24.14
		1	25	23.55	23.93	24.17
		1	49	23.22	23.62	23.71
		25	0	22.42	22.61	23.20
		25	13	22.58	22.71	23.14
		25	25	22.51	22.66	23.12
		50	0	22.48	22.63	23.26

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20825CH	21100CH	21375CH
				2507.5MHz	2535MHz	2562.5MHz
7 / 15M	QPSK	1	0	24.25	24.33	24.84
		1	38	24.70	24.91	24.90
		1	74	24.03	24.49	24.11
		36	0	23.31	23.36	23.98
		36	18	23.44	23.50	23.94
		36	39	23.30	23.53	23.80
		75	0	23.36	23.50	24.04
	16QAM	1	0	23.41	23.43	24.03
		1	38	23.80	23.98	24.15
		1	74	23.20	23.74	23.42
		36	0	22.48	22.59	22.98
		36	18	22.70	22.68	23.25
		36	39	22.50	22.64	23.08
		75	0	22.55	22.59	23.25

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20850CH	21100CH	21350CH
				2510MHz	2535MHz	2560MHz
7 / 20M	QPSK	1	0	24.35	24.26	25.05
		1	50	24.77	24.96	25.02
		1	99	24.05	24.62	24.21
		50	0	23.47	23.54	24.24
		50	25	23.48	23.67	24.14
		50	50	23.37	23.82	23.89
		100	0	23.42	23.62	24.17
	16QAM	1	0	23.60	23.49	24.47
		1	50	23.84	23.86	24.50
		1	99	23.11	23.79	23.72
		50	0	22.54	22.63	23.27
		50	25	22.64	22.76	23.43
		50	50	22.54	22.78	23.14
		100	0	22.57	22.67	23.39

ERP Power (dBm):

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23017CH	23095CH	23173CH
				699.7MHz	707.5MHz	715.3MHz
12 / 1.4M	QPSK	1	0	22.63	23.22	23.25
		1	2	22.69	23.27	23.44
		1	5	22.62	23.04	23.57
		3	0	22.65	23.25	23.27
		3	1	22.67	23.25	23.41
		3	2	22.63	23.26	23.48
	16QAM	6	0	22.54	23.14	23.28
		1	0	21.61	22.49	22.32
		1	2	21.71	22.53	22.41
		1	5	21.62	22.29	22.65
		3	0	21.82	22.35	22.47
		3	1	21.83	22.36	22.53
		3	2	21.80	22.38	22.57
		6	0	21.68	22.15	22.41

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23025CH	23095CH	23165CH
				700.5MHz	707.5MHz	714.5MHz
12 / 3M	QPSK	1	0	22.44	23.17	22.83
		1	7	22.82	23.34	23.36
		1	14	22.53	22.74	23.34
		8	0	22.51	23.04	22.98
		8	4	22.63	23.02	23.09
		8	7	22.60	22.92	23.12
		15	0	22.56	22.96	23.04
	16QAM	1	0	21.81	22.41	21.95
		1	7	22.09	22.70	22.39
		1	14	21.84	22.07	22.35
		8	0	21.56	22.15	22.02
		8	4	21.68	22.17	22.13
		8	7	21.65	22.01	22.15
		15	0	21.62	22.02	21.99

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23035CH	23095CH	23155CH
				701.5MHz	707.5MHz	713.5MHz
12 / 5M	QPSK	1	0	22.84	23.56	23.07
		1	13	22.81	23.17	23.15
		1	24	23.15	23.02	23.52
		12	0	22.42	23.01	22.77
		12	6	22.59	22.97	23.00
		12	11	22.52	22.91	23.04
		25	0	22.50	22.90	22.87
	16QAM	1	0	22.18	22.88	22.46
		1	13	22.03	22.54	22.54
		1	24	22.39	22.32	23.06
		12	0	21.50	22.13	21.73
		12	6	21.66	22.05	21.97
		12	11	21.60	21.96	22.02
		25	0	21.45	21.91	21.76

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23060CH	23095CH	23130CH
				704MHz	707.5MHz	711MHz
12 / 10M	QPSK	1	0	22.85	23.15	23.53
		1	25	23.20	23.26	22.97
		1	49	22.81	22.72	23.17
		25	0	22.43	22.81	22.65
		25	13	22.85	22.85	22.56
		25	25	22.66	22.45	22.51
		50	0	22.58	22.70	22.58
	16QAM	1	0	22.22	22.41	22.67
		1	25	22.48	22.56	22.11
		1	49	22.12	21.97	22.38
		25	0	21.44	21.84	21.64
		25	13	21.82	21.94	21.57
		25	25	21.69	21.44	21.50
		50	0	21.54	21.69	21.59

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				23205CH	23230CH	23255CH
				779.5MHz	782MHz	784.5MHz
13 / 5M	QPSK	1	0	23.31	23.36	23.56
		1	13	22.90	23.36	23.20
		1	24	23.48	23.50	23.34
		12	0	21.89	21.97	22.00
		12	6	21.81	22.21	21.98
		12	11	21.85	21.94	21.79
		25	0	21.85	21.92	21.81
	16QAM	1	0	23.31	22.26	22.29
		1	13	23.32	21.91	22.06
		1	24	23.34	22.28	22.24
		12	0	21.71	21.94	22.03
		12	6	21.98	21.89	22.29
		12	11	21.67	21.93	22.01
		25	0	21.67	21.80	21.91

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				23230CH
				782MHz
13 / 10M	QPSK	1	0	22.53
		1	25	22.04
		1	49	22.30
		25	0	21.93
		25	13	21.93
		25	25	21.76
		50	0	21.75
	16QAM	1	0	22.26
		1	25	22.07
		1	49	22.05
		25	0	21.64
		25	13	21.89
		25	25	21.60
		50	0	21.61

APPENDIX B - OCCUPIED BANDWIDTH

WCDMA Band IV_WCDMA					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
1312	1712.4	4.1449	1312	1712.4	4.6900
1413	1732.6	4.1383	1413	1732.6	4.6930
1513	1752.6	4.1412	1513	1752.6	4.7050



WCDMA Band IV_HSDPA					
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
1312	1712.4	4.1390	1312	1712.4	4.7040
1413	1732.6	4.1333	1413	1732.6	4.7020
1513	1752.6	4.1362	1513	1752.6	4.7090

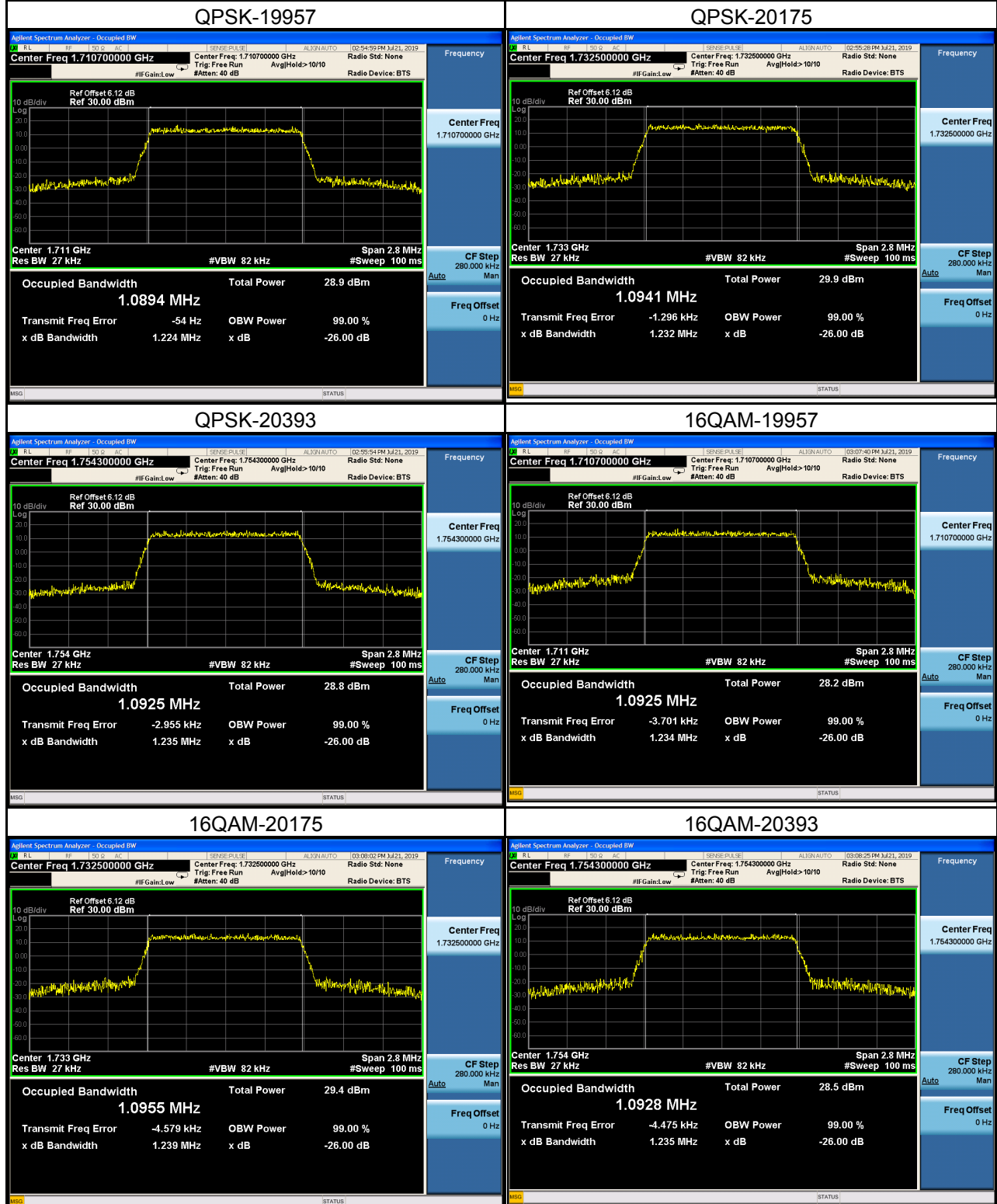


WCDMA Band IV_HSUPA					
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
1312	1712.4	4.1791	1312	1712.4	4.7410
1413	1732.6	4.1651	1413	1732.6	4.7140
1513	1752.6	4.1639	1513	1752.6	4.7310



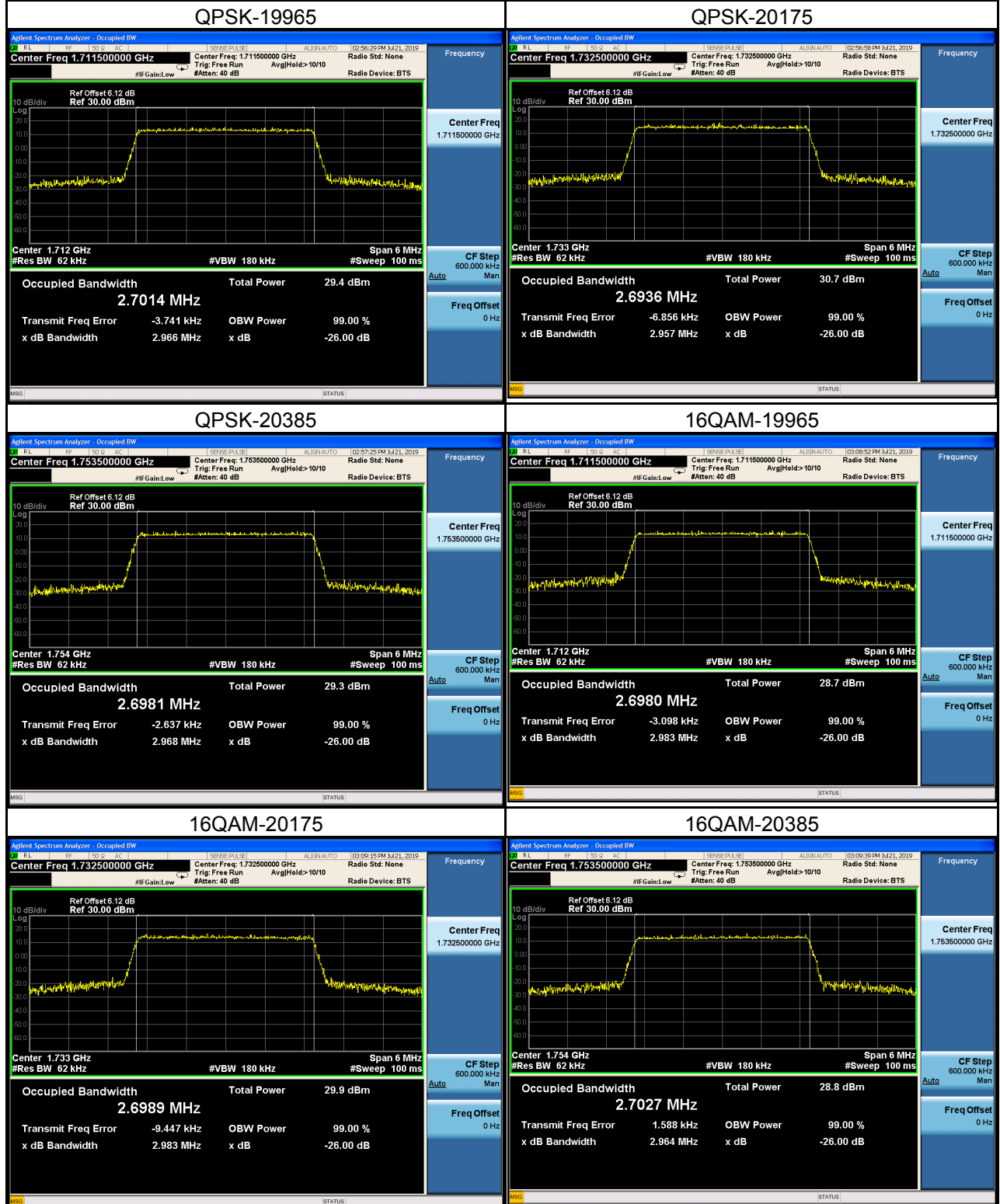
LTE Band 4_1.4M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
19957	1710.7	1.0894	19957	1710.7	1.0925
20175	1732.5	1.0941	20175	1732.5	1.0955
20393	1754.3	1.0925	20393	1754.3	1.0928
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19957	1710.7	1.2240	19957	1710.7	1.2340
20175	1732.5	1.2320	20175	1732.5	1.2390
20393	1754.3	1.2350	20393	1754.3	1.2350

Spectrum Plot



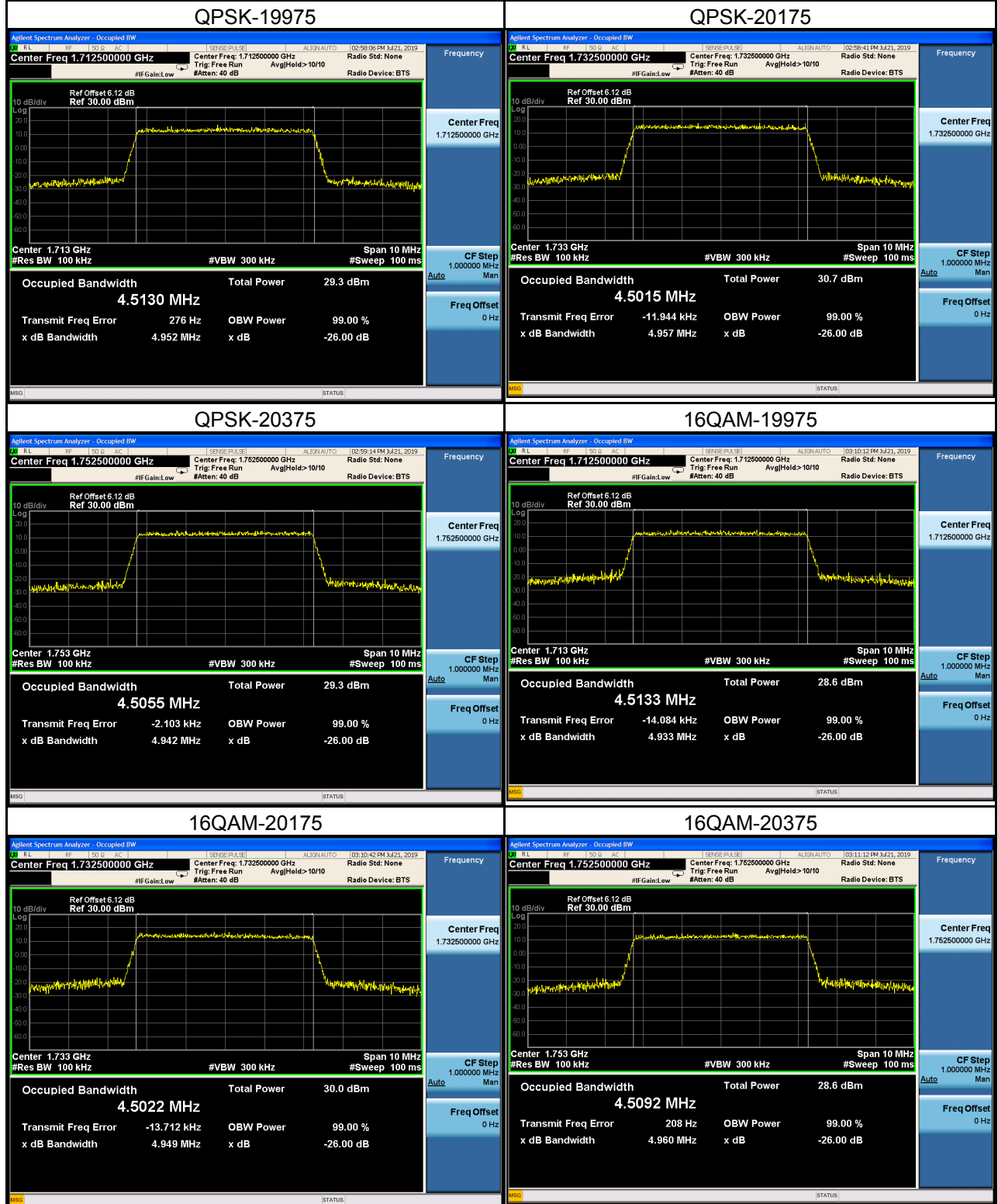
LTE Band 4_3M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
19965	1711.5	2.7014	19965	1711.5	2.6980
20175	1732.5	2.6936	20175	1732.5	2.6989
20385	1753.5	2.6981	20385	1753.5	2.7027
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19965	1711.5	2.9660	19965	1711.5	2.9830
20175	1732.5	2.9570	20175	1732.5	2.9830
20385	1753.5	2.9680	20385	1753.5	2.9640

Spectrum Plot



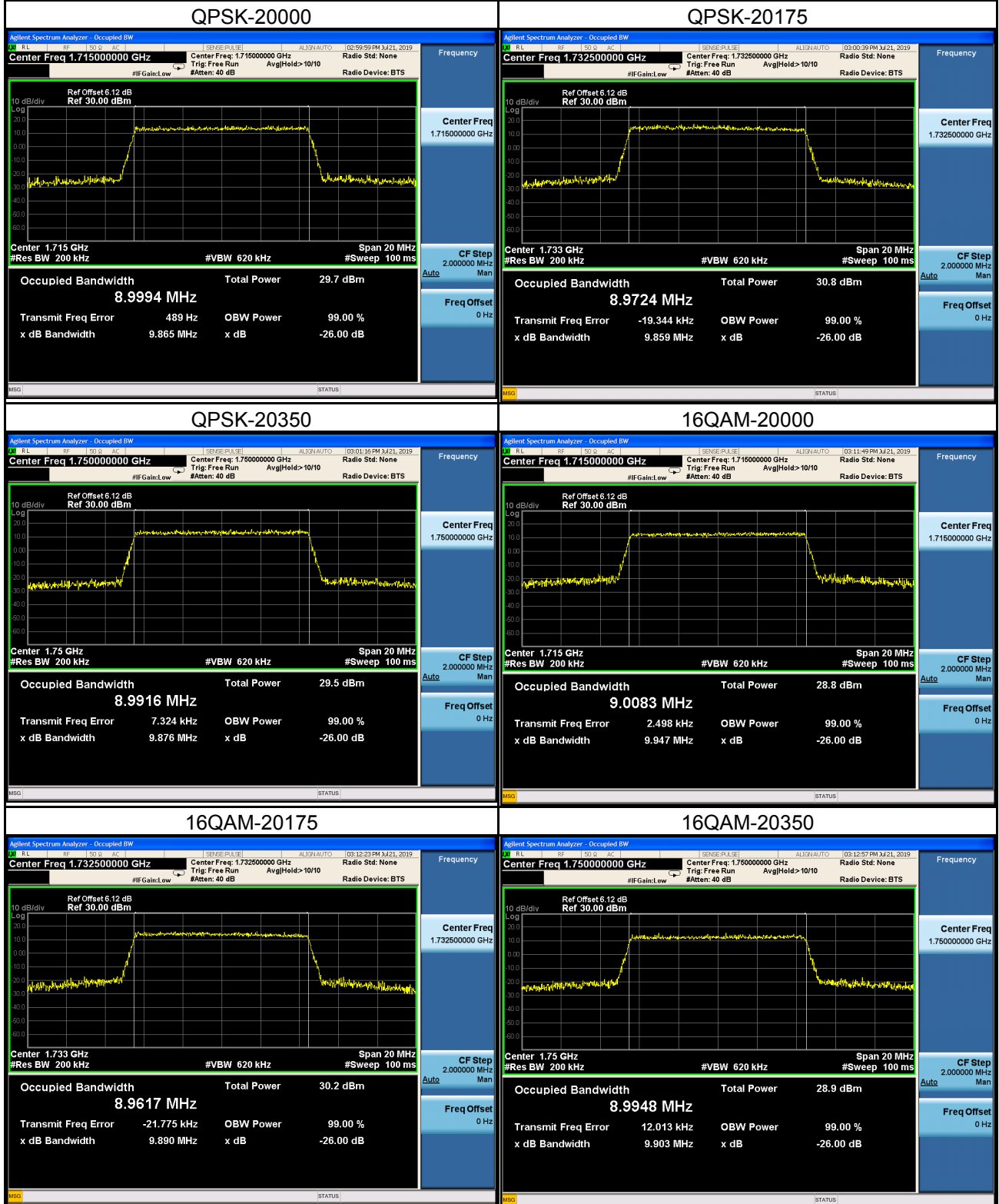
LTE Band 4_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
19975	1712.5	4.5130	19975	1712.5	4.5133
20175	1732.5	4.5015	20175	1732.5	4.5022
20375	1752.5	4.5055	20375	1752.5	4.5092
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
19975	1712.5	4.9520	19975	1712.5	4.9330
20175	1732.5	4.9570	20175	1732.5	4.9490
20375	1752.5	4.9420	20375	1752.5	4.9600

Spectrum Plot



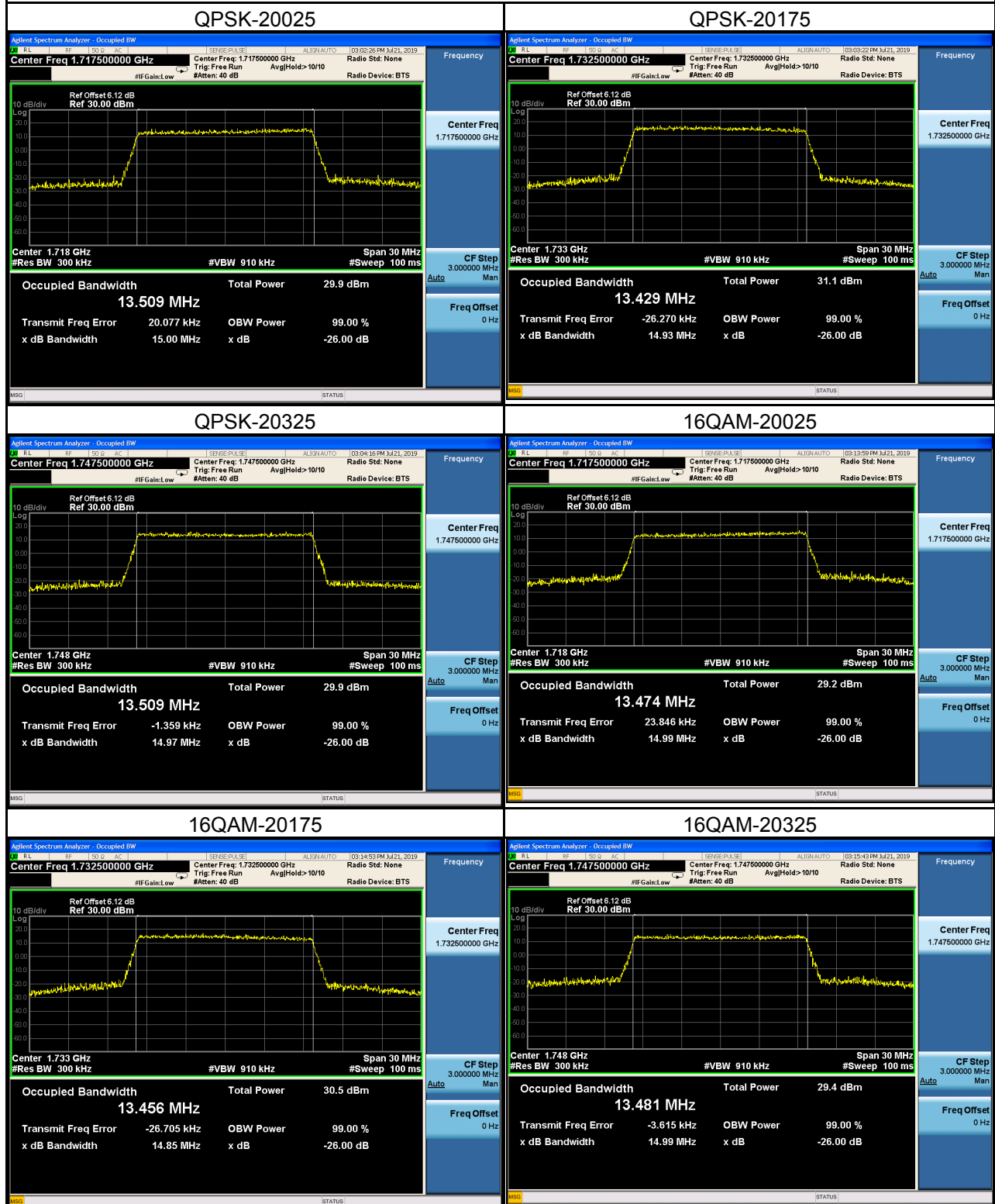
LTE Band 4_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20000	1715	8.9994	20000	1715	9.0083
20175	1732.5	8.9724	20175	1732.5	8.9617
20350	1750	8.9916	20350	1750	8.9948
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20000	1715	9.8650	20000	1715	9.9470
20175	1732.5	9.8590	20175	1732.5	9.8900
20350	1750	9.8760	20350	1750	9.9030

Spectrum Plot



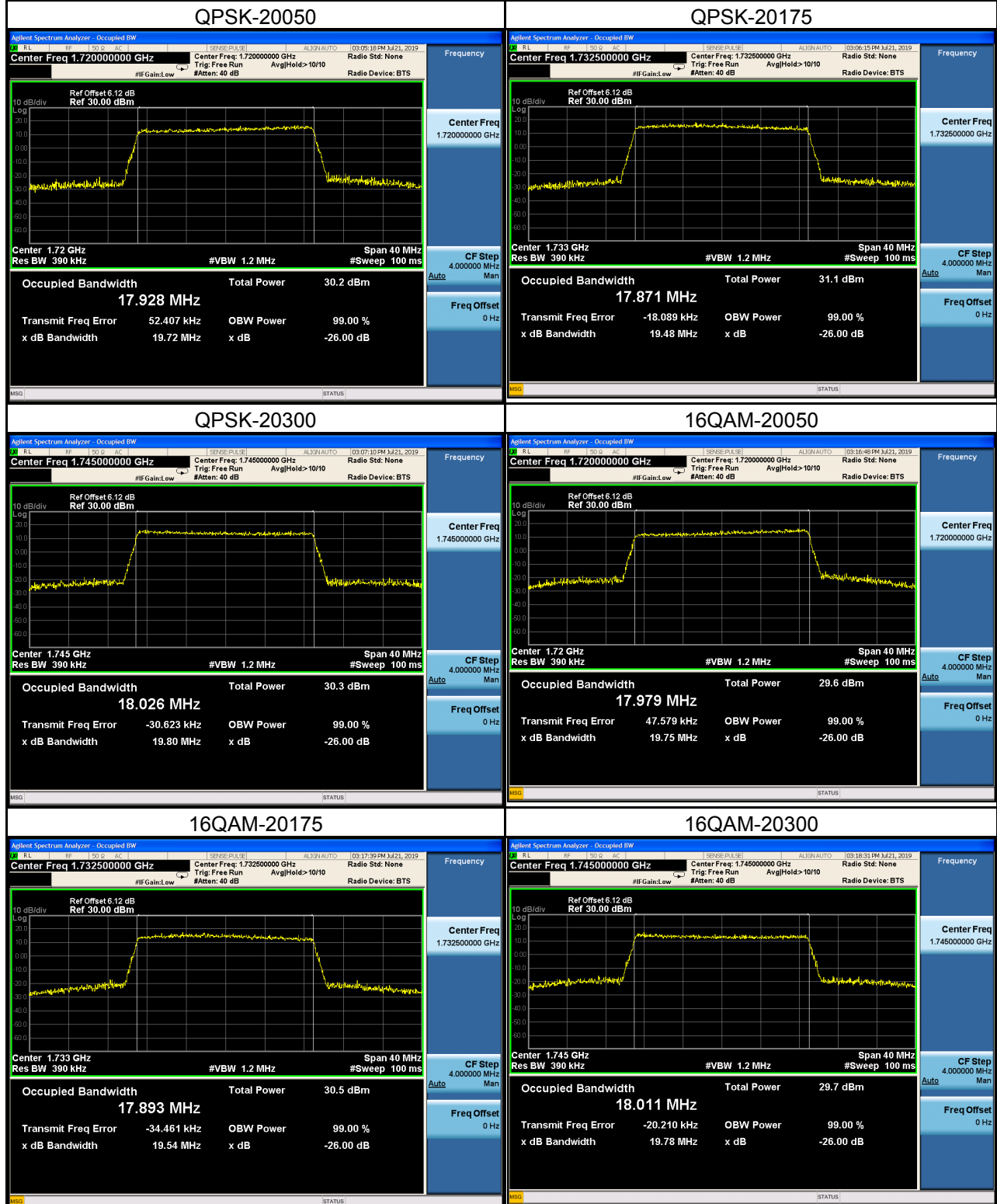
LTE Band 4_15M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20025	1717.5	13.5090	20025	1717.5	13.4740
20175	1732.5	13.4290	20175	1732.5	13.4560
20325	1747.5	13.5090	20325	1747.5	13.4810
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20025	1717.5	15.0000	20025	1717.5	14.9900
20175	1732.5	14.9300	20175	1732.5	14.8500
20325	1747.5	14.9700	20325	1747.5	14.9900

Spectrum Plot



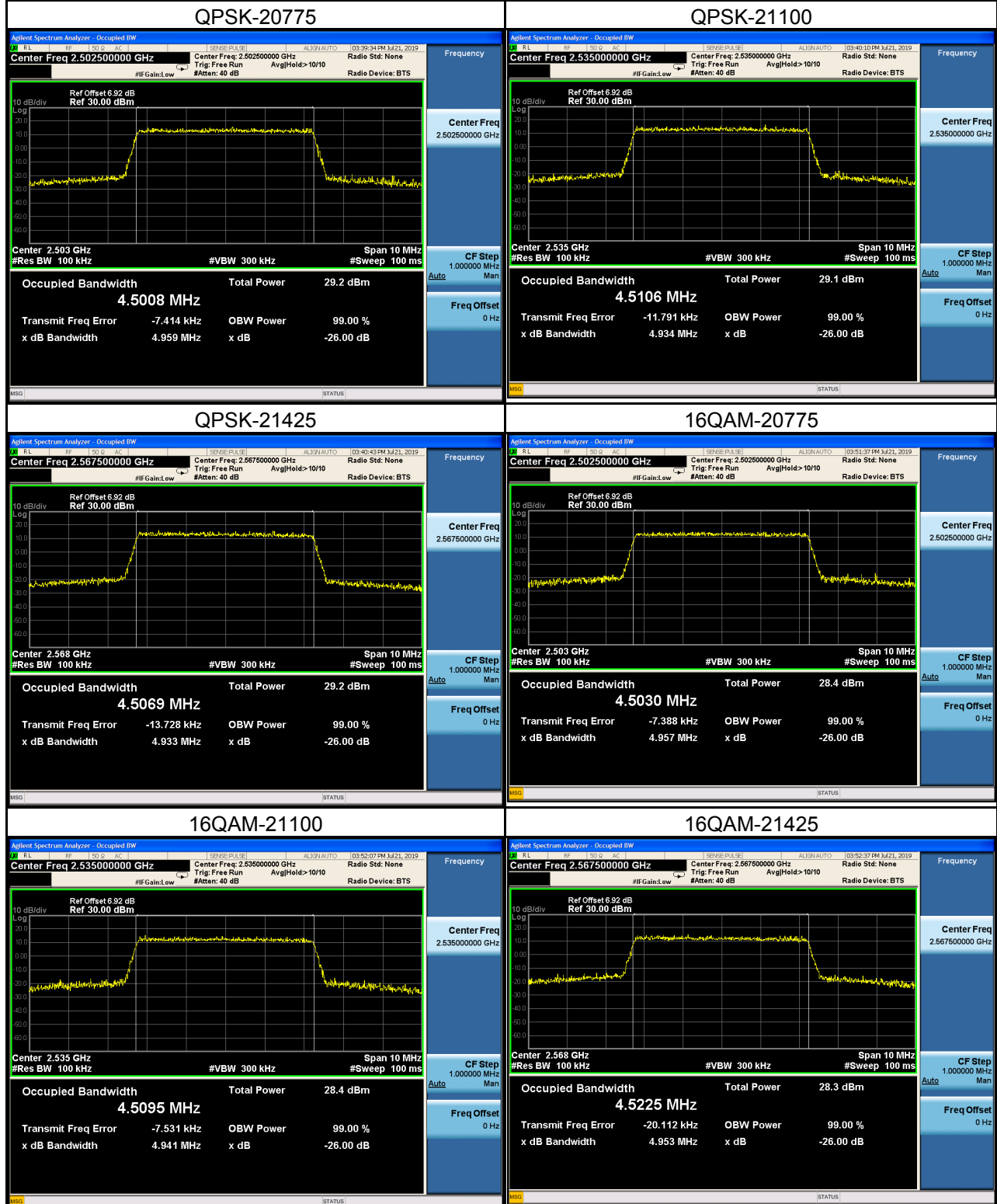
LTE Band 4_20M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20050	1720	17.9280	20050	1720	17.9790
20175	1732.5	17.8710	20175	1732.5	17.8930
20300	1745	18.0260	20300	1745	18.0110
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20050	1720	19.7200	20050	1720	19.7500
20175	1732.5	19.4800	20175	1732.5	19.5400
20300	1745	19.8000	20300	1745	19.7800

Spectrum Plot



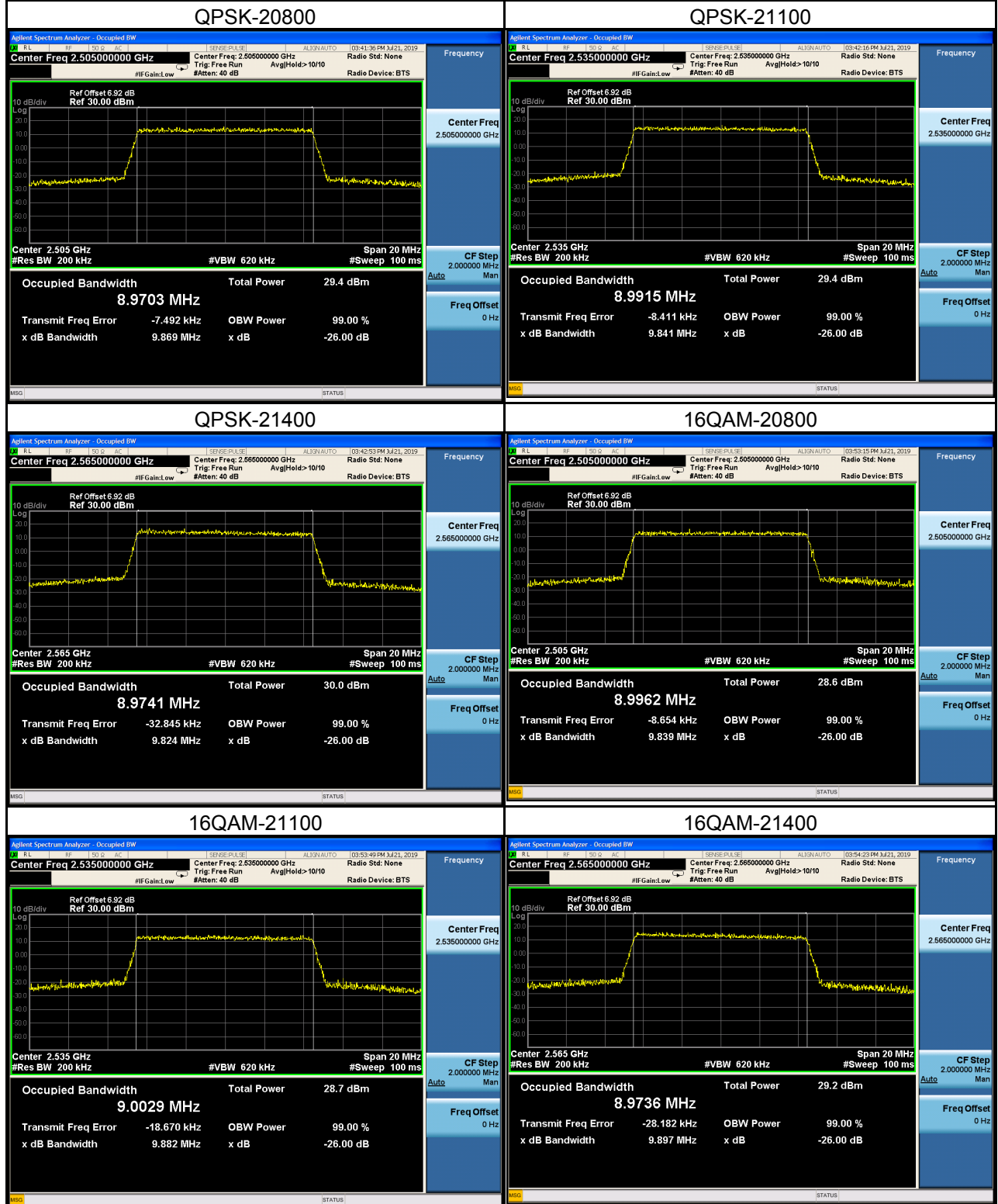
LTE Band 7_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20775	2502.5	4.5008	20775	2502.5	4.5030
21100	2535	4.5106	21100	2535	4.5095
21425	2567.5	4.5069	21425	2567.5	4.5225
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20775	2502.5	4.9590	20775	2502.5	4.9570
21100	2535	4.9340	21100	2535	4.9410
21425	2567.5	4.9330	21425	2567.5	4.9530

Spectrum Plot



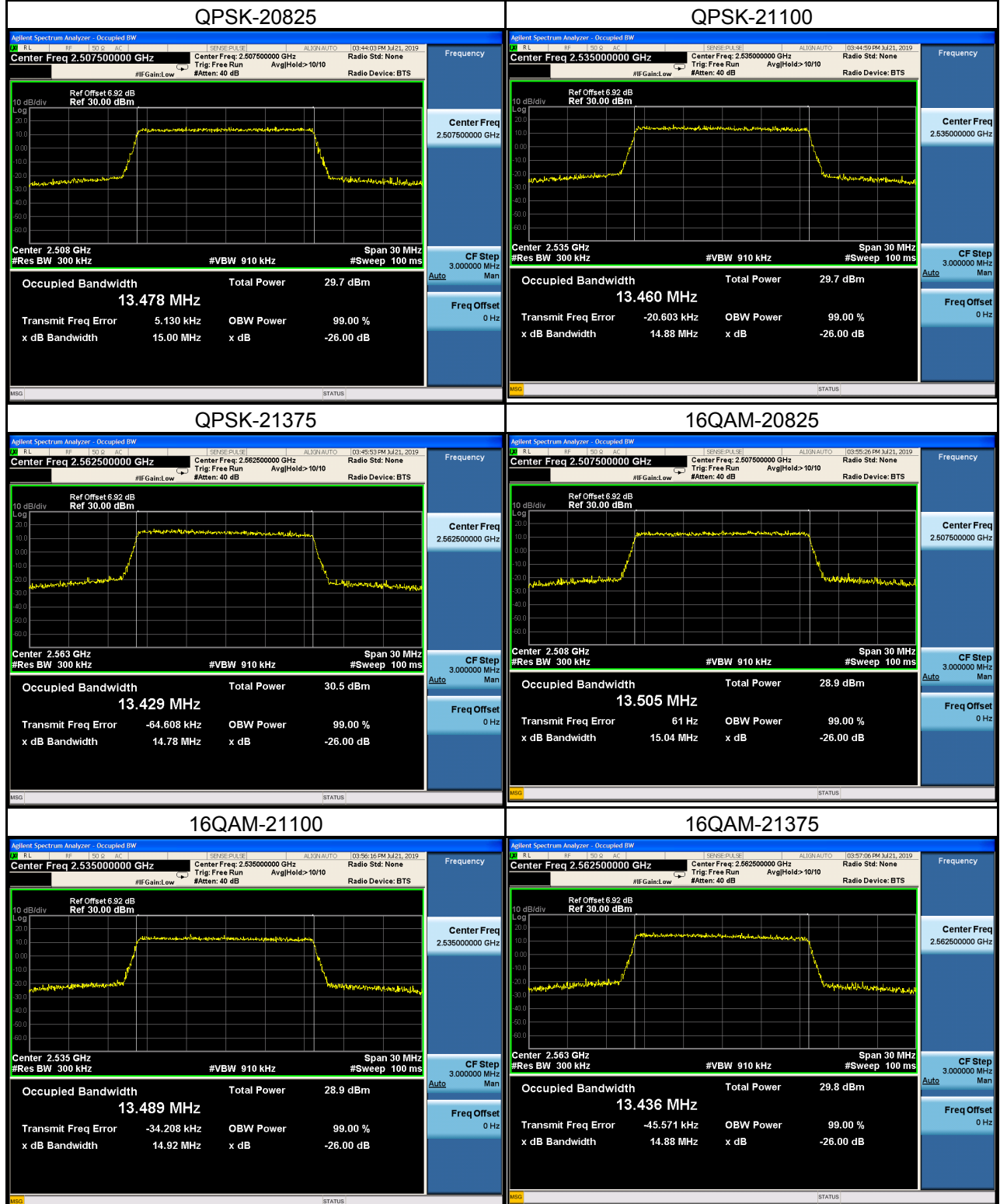
LTE Band 7_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20800	2505	8.9703	20800	2505	8.9962
21100	2535	8.9915	21100	2535	9.0029
21400	2565	8.9741	21400	2565	8.9736
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20800	2505	9.8690	20800	2505	9.8390
21100	2535	9.8410	21100	2535	9.8820
21400	2565	9.8240	21400	2565	9.8970

Spectrum Plot



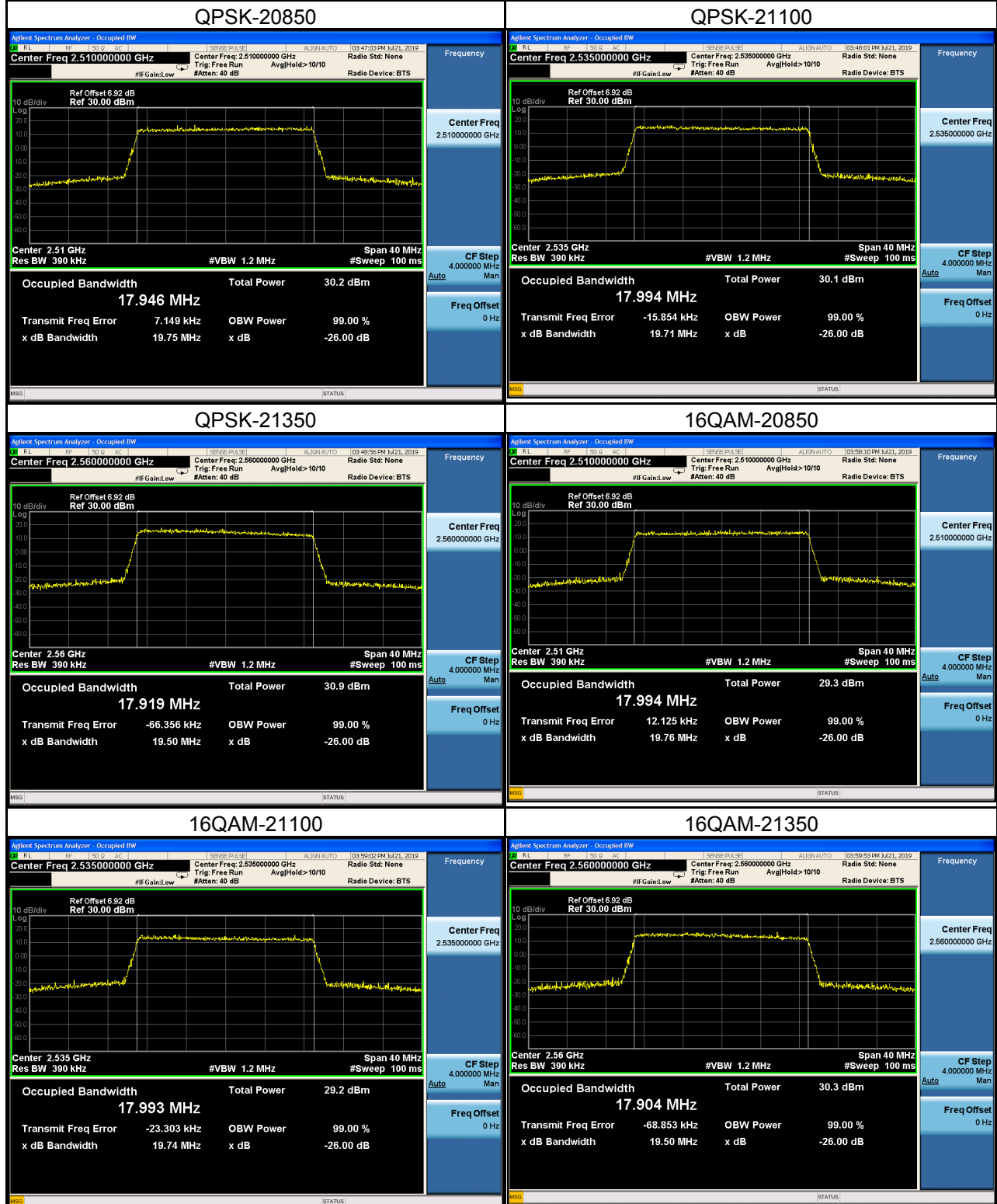
LTE Band 7_15M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20825	2507.5	13.4780	20825	2507.5	13.5050
21100	2535	13.4600	21100	2535	13.4890
21375	2562.5	13.4290	21375	2562.5	13.4360
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20825	2507.5	15.0000	20825	2507.5	15.0400
21100	2535	14.8800	21100	2535	14.9200
21375	2562.5	14.7800	21375	2562.5	14.8800

Spectrum Plot



LTE Band 7_20M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20850	2510	17.9460	20850	2510	17.9940
21100	2535	17.9940	21100	2535	17.9930
21350	2560	17.9190	21350	2560	17.9040
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20850	2510	19.7500	20850	2510	19.7600
21100	2535	19.7100	21100	2535	19.7400
21350	2560	19.5000	21350	2560	19.5000

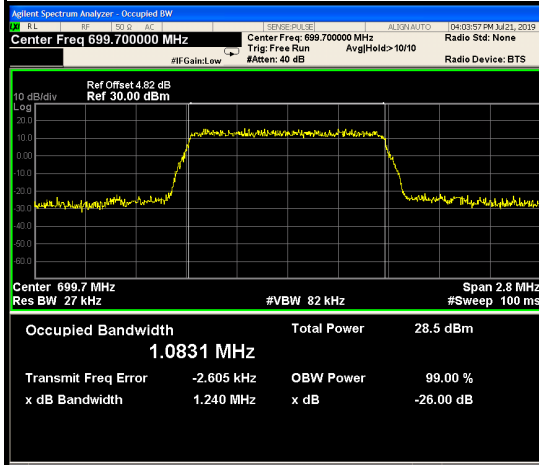
Spectrum Plot



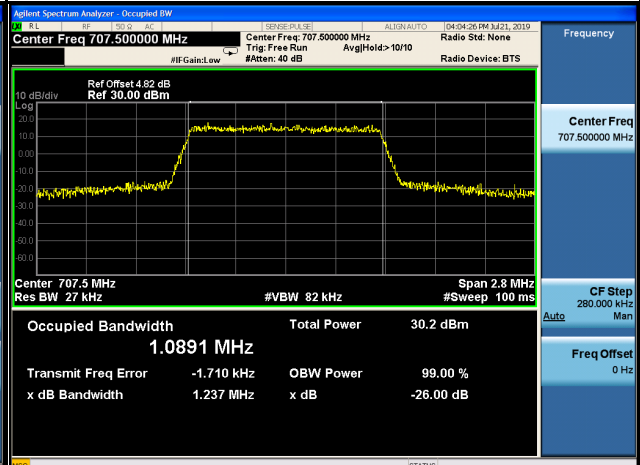
LTE Band 12_1.4M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23017	699.7	1.0831	23017	699.7	1.0952
23095	707.5	1.0891	23095	707.5	1.0898
23173	715.3	1.0944	23173	715.3	1.0975
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23017	699.7	1.2400	23017	699.7	1.2270
23095	707.5	1.2370	23095	707.5	1.2370
23173	715.3	1.2250	23173	715.3	1.2360

Spectrum Plot

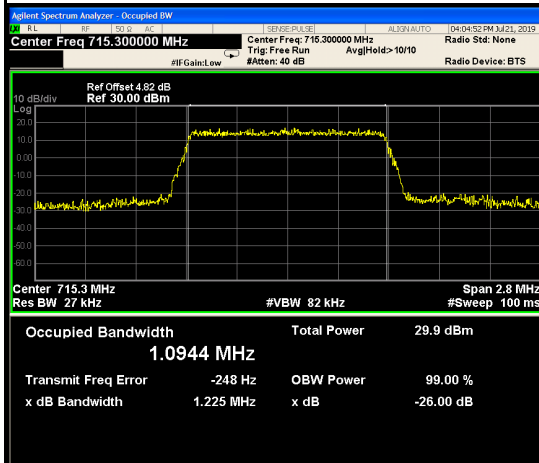
QPSK-23017



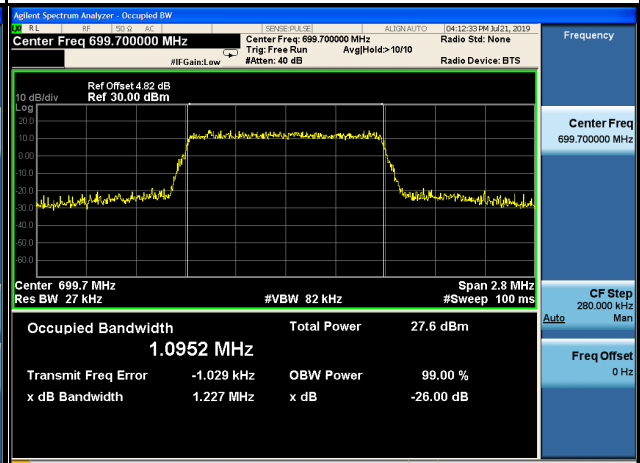
QPSK-23095



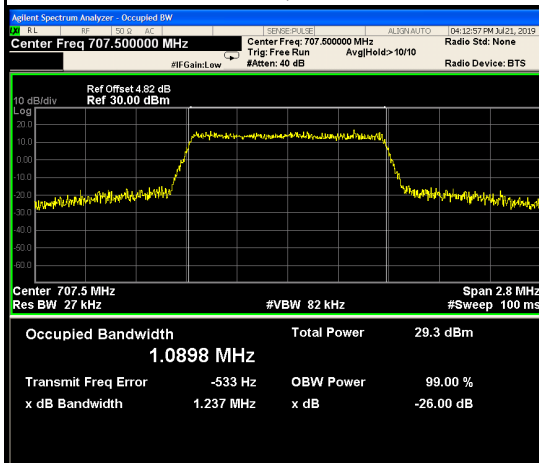
QPSK-23173



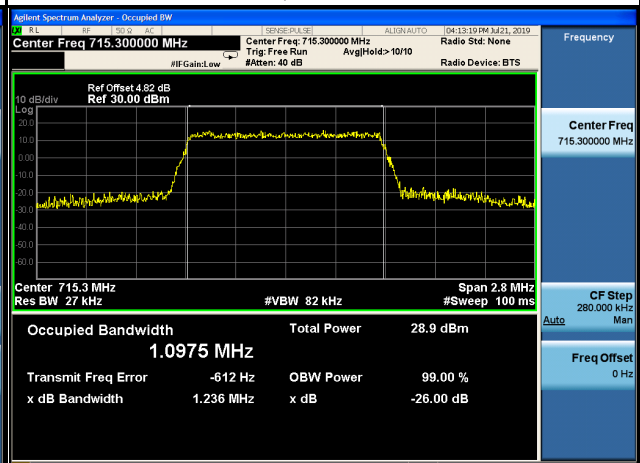
16QAM-23017



16QAM-23095

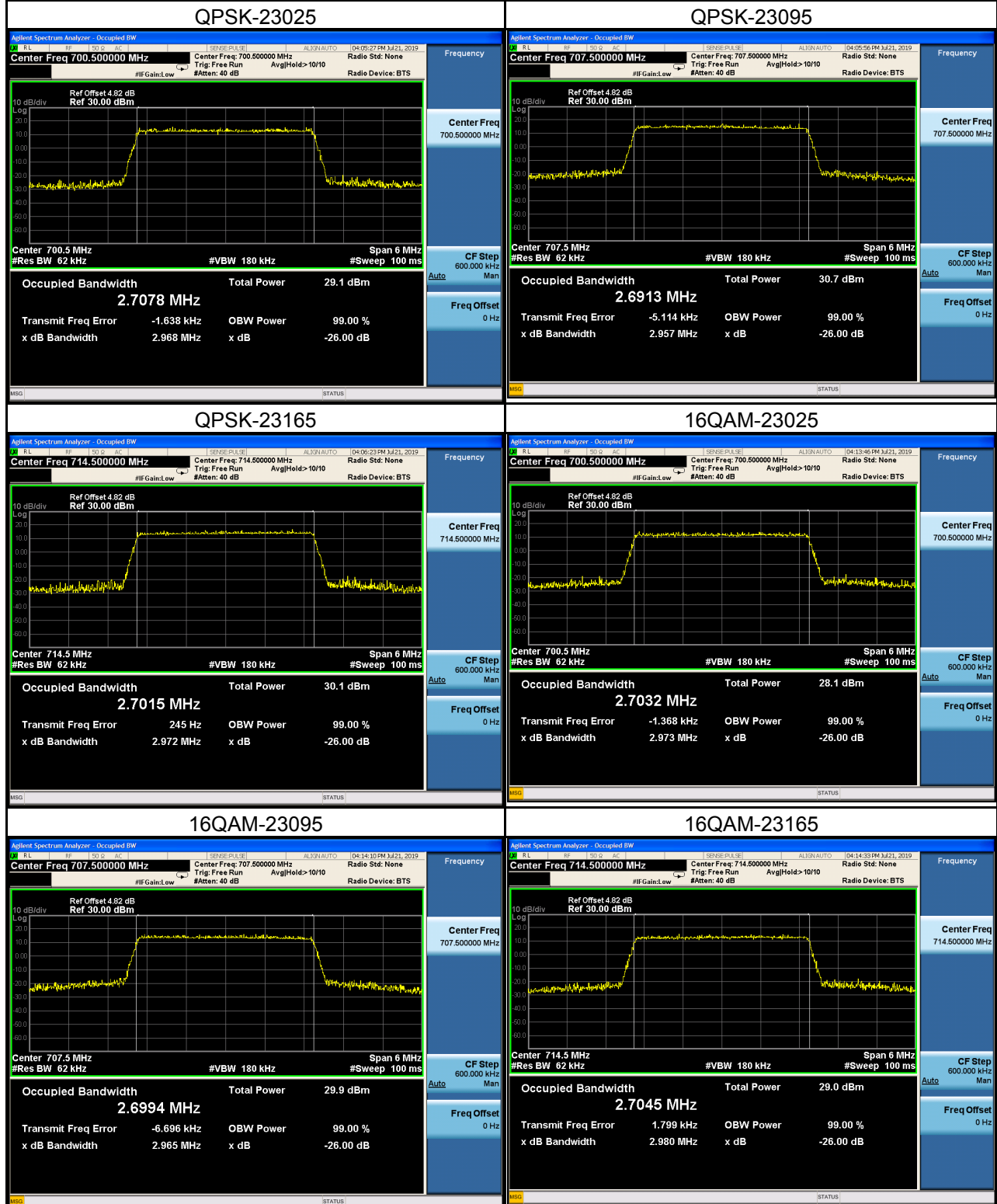


16QAM-23173



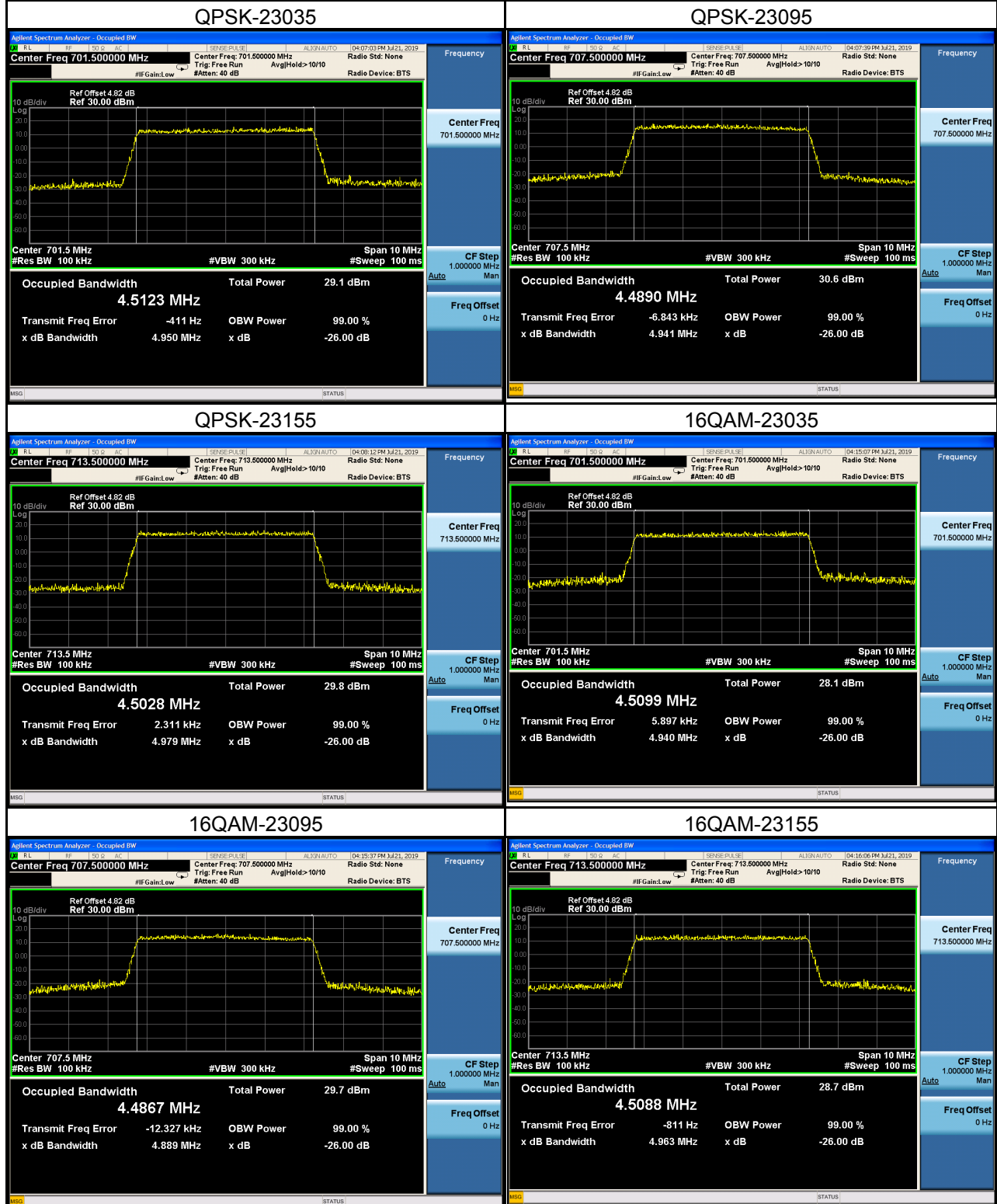
LTE Band 12_3M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23025	700.5	2.7078	23025	700.5	2.7032
23095	707.5	2.6913	23095	707.5	2.6994
23165	714.5	2.7015	23165	714.5	2.7045
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23025	700.5	2.9680	23025	700.5	2.9730
23095	707.5	2.9570	23095	707.5	2.9650
23165	714.5	2.9720	23165	714.5	2.9800

Spectrum Plot



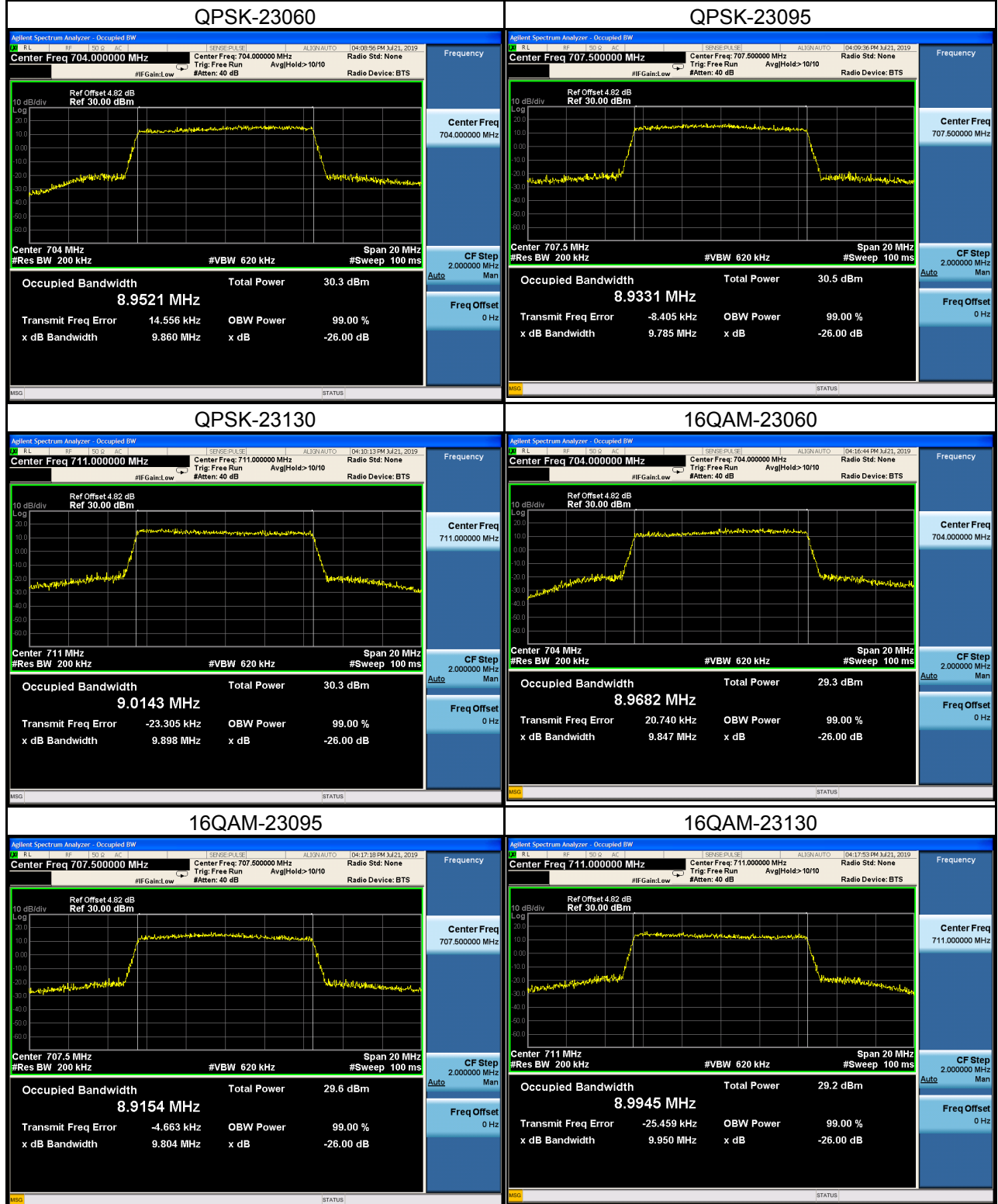
LTE Band 12_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23035	701.5	4.5123	23035	701.5	4.5099
23095	707.5	4.4890	23095	707.5	4.4867
23155	713.5	4.5028	23155	713.5	4.5088
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23035	701.5	4.9500	23035	701.5	4.9400
23095	707.5	4.9410	23095	707.5	4.8890
23155	713.5	4.9790	23155	713.5	4.9630

Spectrum Plot



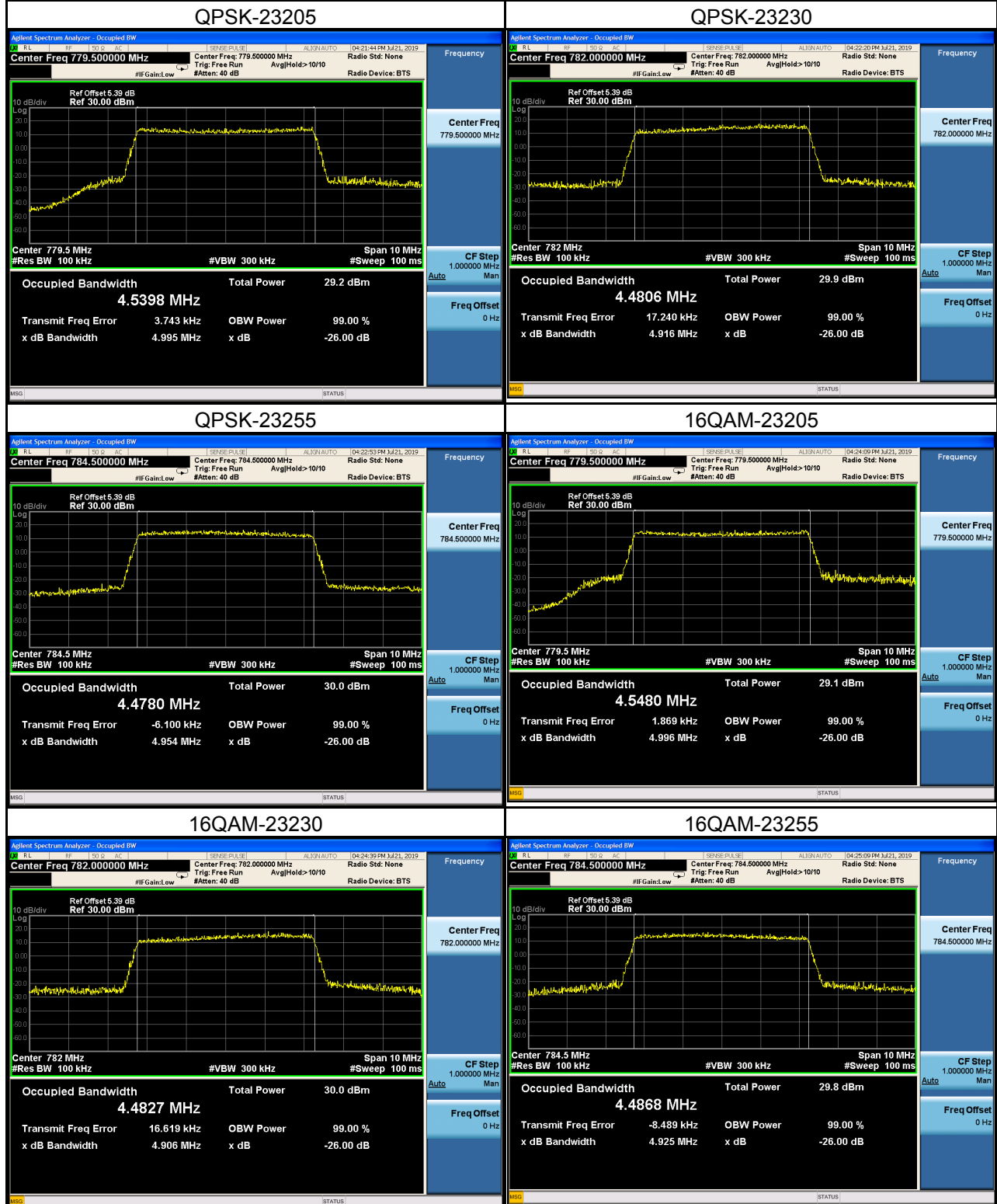
LTE Band 12_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23060	704.0	8.9521	23060	704.0	8.9682
23095	707.5	8.9331	23095	707.5	8.9154
23130	711.0	9.0143	23130	711.0	8.9945
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23060	704.0	9.8600	23060	704.0	9.8470
23095	707.5	9.7850	23095	707.5	9.8040
23130	711.0	9.8980	23130	711.0	9.9500

Spectrum Plot



LTE Band 13_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23205	779.5	4.5398	23205	779.5	4.5480
23230	782.0	4.4806	23230	782.0	4.4827
23255	784.5	4.4780	23255	784.5	4.4868
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23205	779.5	4.9950	23205	779.5	4.9960
23230	782.0	4.9160	23230	782.0	4.9060
23255	784.5	4.9540	23255	784.5	4.9250

Spectrum Plot



LTE Band 13_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23230	782.0	8.9558	23230	782.0	8.9704
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23230	782.0	9.7870	23230	782.0	9.8530

