Appendix B

E-UTRA BAND 17

CONTENT

1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
BAND17	5MHz	QPSK	23755	1RB#0	22.56	24.41	34.77	PASS
BAND17	5MHz	QPSK	23755	1RB#12	22.53	24.38	34.77	PASS
BAND17	5MHz	QPSK	23755	1RB#24	22.53	24.38	34.77	PASS
BAND17	5MHz	QPSK	23755	12RB#0	21.63	23.48	34.77	PASS
BAND17	5MHz	QPSK	23755	12RB#6	21.6	23.45	34.77	PASS
BAND17	5MHz	QPSK	23755	12RB#13	21.58	23.43	34.77	PASS
BAND17	5MHz	QPSK	23755	25RB#0	21.6	23.45	34.77	PASS
BAND17	5MHz	QPSK	23790	1RB#0	22.54	24.39	34.77	PASS
BAND17	5MHz	QPSK	23790	1RB#12	22.48	24.33	34.77	PASS
BAND17	5MHz	QPSK	23790	1RB#24	22.45	24.3	34.77	PASS
BAND17	5MHz	QPSK	23790	12RB#0	21.58	23.43	34.77	PASS
BAND17	5MHz	QPSK	23790	12RB#6	21.55	23.4	34.77	PASS
BAND17	5MHz	QPSK	23790	12RB#13	21.46	23.31	34.77	PASS
BAND17	5MHz	QPSK	23790	25RB#0	21.54	23.39	34.77	PASS
BAND17	5MHz	QPSK	23825	1RB#0	22.42	24.27	34.77	PASS
BAND17	5MHz	QPSK	23825	1RB#12	22.42	24.27	34.77	PASS
BAND17	5MHz	QPSK	23825	1RB#24	22.36	24.21	34.77	PASS
BAND17	5MHz	QPSK	23825	12RB#0	21.53	23.38	34.77	PASS
BAND17	5MHz	QPSK	23825	12RB#6	21.5	23.35	34.77	PASS
BAND17	5MHz	QPSK	23825	12RB#13	21.42	23.27	34.77	PASS
BAND17	5MHz	QPSK	23825	25RB#0	21.49	23.34	34.77	PASS
BAND17	5MHz	64QAM	23755	1RB#0	20.61	22.46	34.77	PASS
BAND17	5MHz	64QAM	23755	1RB#12	20.6	22.45	34.77	PASS
BAND17	5MHz	64QAM	23755	1RB#24	20.61	22.46	34.77	PASS
BAND17	5MHz	64QAM	23755	12RB#0	19.58	21.43	34.77	PASS
BAND17	5MHz	64QAM	23755	12RB#6	19.55	21.4	34.77	PASS
BAND17	5MHz	64QAM	23755	12RB#13	19.51	21.36	34.77	PASS
BAND17	5MHz	64QAM	23755	25RB#0	19.53	21.38	34.77	PASS
BAND17	5MHz	64QAM	23790	1RB#0	20.6	22.45	34.77	PASS
BAND17	5MHz	64QAM	23790	1RB#12	20.55	22.4	34.77	PASS
BAND17	5MHz	64QAM	23790	1RB#24	20.48	22.33	34.77	PASS
BAND17	5MHz	64QAM	23790	12RB#0	19.53	21.38	34.77	PASS
BAND17	5MHz	64QAM	23790	12RB#6	19.47	21.32	34.77	PASS
BAND17	5MHz	64QAM	23790	12RB#13	19.37	21.22	34.77	PASS

BAND17	5MHz	64QAM	23790	25RB#0	19.51	21.36	34.77	PASS
BAND17	5MHz	64QAM	23825	1RB#0	20.45	22.3	34.77	PASS
BAND17	5MHz	64QAM	23825	1RB#12	20.48	22.33	34.77	PASS
BAND17	5MHz	64QAM	23825	1RB#24	20.49	22.34	34.77	PASS
BAND17	5MHz	64QAM	23825	12RB#0	19.43	21.28	34.77	PASS
BAND17	5MHz	64QAM	23825	12RB#6	19.35	21.2	34.77	PASS
BAND17	5MHz	64QAM	23825	12RB#13	19.32	21.17	34.77	PASS
BAND17	5MHz	64QAM	23825	25RB#0	19.43	21.28	34.77	PASS
BAND17	5MHz	16QAM	23755	1RB#0	21.78	23.63	34.77	PASS
BAND17	5MHz	16QAM	23755	1RB#12	21.71	23.56	34.77	PASS
BAND17	5MHz	16QAM	23755	1RB#24	21.66	23.51	34.77	PASS
BAND17	5MHz	16QAM	23755	12RB#0	20.67	22.52	34.77	PASS
BAND17	5MHz	16QAM	23755	12RB#6	20.69	22.54	34.77	PASS
BAND17	5MHz	16QAM	23755	12RB#13	20.67	22.52	34.77	PASS
BAND17	5MHz	16QAM	23755	25RB#0	20.66	22.51	34.77	PASS
BAND17	5MHz	16QAM	23790	1RB#0	21.66	23.51	34.77	PASS
BAND17	5MHz	16QAM	23790	1RB#12	21.65	23.5	34.77	PASS
BAND17	5MHz	16QAM	23790	1RB#24	21.51	23.36	34.77	PASS
BAND17	5MHz	16QAM	23790	12RB#0	20.67	22.52	34.77	PASS
BAND17	5MHz	16QAM	23790	12RB#6	20.64	22.49	34.77	PASS
BAND17	5MHz	16QAM	23790	12RB#13	20.58	22.43	34.77	PASS
BAND17	5MHz	16QAM	23790	25RB#0	20.59	22.44	34.77	PASS
BAND17	5MHz	16QAM	23825	1RB#0	21.48	23.33	34.77	PASS
BAND17	5MHz	16QAM	23825	1RB#12	21.52	23.37	34.77	PASS
BAND17	5MHz	16QAM	23825	1RB#24	21.47	23.32	34.77	PASS
BAND17	5MHz	16QAM	23825	12RB#0	20.61	22.46	34.77	PASS
BAND17	5MHz	16QAM	23825	12RB#6	20.57	22.42	34.77	PASS
BAND17	5MHz	16QAM	23825	12RB#13	20.47	22.32	34.77	PASS
BAND17	5MHz	16QAM	23825	25RB#0	20.55	22.4	34.77	PASS
BAND17	10MHz	QPSK	23780	1RB#0	22.63	24.48	34.77	PASS
BAND17	10MHz	QPSK	23780	1RB#24	22.55	24.4	34.77	PASS
BAND17	10MHz	QPSK	23780	1RB#49	22.5	24.35	34.77	PASS
BAND17	10MHz	QPSK	23780	25RB#0	21.59	23.44	34.77	PASS
BAND17	10MHz	QPSK	23780	25RB#12	21.54	23.39	34.77	PASS
BAND17	10MHz	QPSK	23780	25RB#25	21.43	23.28	34.77	PASS
BAND17	10MHz	QPSK	23780	50RB#0	21.54	23.39	34.77	PASS
BAND17	10MHz	QPSK	23790	1RB#0	22.64	24.49	34.77	PASS
BAND17	10MHz	QPSK	23790	1RB#24	22.54	24.39	34.77	PASS
BAND17	10MHz	QPSK	23790	1RB#49	22.43	24.28	34.77	PASS
BAND17	10MHz	QPSK	23790	25RB#0	21.59	23.44	34.77	PASS
BAND17	10MHz	QPSK	23790	25RB#12	21.53	23.38	34.77	PASS

BAND17	10MHz	QPSK	23790	25RB#25	21.51	23.36	34.77	PASS
BAND17	10MHz	QPSK	23790	50RB#0	21.54	23.39	34.77	PASS
BAND17	10MHz	QPSK	23800	1RB#0	22.65	24.5	34.77	PASS
BAND17	10MHz	QPSK	23800	1RB#24	22.54	24.39	34.77	PASS
BAND17	10MHz	QPSK	23800	1RB#49	22.41	24.26	34.77	PASS
BAND17	10MHz	QPSK	23800	25RB#0	21.58	23.43	34.77	PASS
BAND17	10MHz	QPSK	23800	25RB#12	21.53	23.38	34.77	PASS
BAND17	10MHz	QPSK	23800	25RB#25	21.49	23.34	34.77	PASS
BAND17	10MHz	QPSK	23800	50RB#0	21.45	23.3	34.77	PASS
BAND17	10MHz	64QAM	23780	1RB#0	20.79	22.64	34.77	PASS
BAND17	10MHz	64QAM	23780	1RB#24	20.63	22.48	34.77	PASS
BAND17	10MHz	64QAM	23780	1RB#49	20.63	22.48	34.77	PASS
BAND17	10MHz	64QAM	23780	25RB#0	19.6	21.45	34.77	PASS
BAND17	10MHz	64QAM	23780	25RB#12	19.58	21.43	34.77	PASS
BAND17	10MHz	64QAM	23780	25RB#25	19.45	21.3	34.77	PASS
BAND17	10MHz	64QAM	23780	50RB#0	19.51	21.36	34.77	PASS
BAND17	10MHz	64QAM	23790	1RB#0	20.73	22.58	34.77	PASS
BAND17	10MHz	64QAM	23790	1RB#24	20.72	22.57	34.77	PASS
BAND17	10MHz	64QAM	23790	1RB#49	20.57	22.42	34.77	PASS
BAND17	10MHz	64QAM	23790	25RB#0	19.61	21.46	34.77	PASS
BAND17	10MHz	64QAM	23790	25RB#12	19.57	21.42	34.77	PASS
BAND17	10MHz	64QAM	23790	25RB#25	19.54	21.39	34.77	PASS
BAND17	10MHz	64QAM	23790	50RB#0	19.49	21.34	34.77	PASS
BAND17	10MHz	64QAM	23800	1RB#0	20.78	22.63	34.77	PASS
BAND17	10MHz	64QAM	23800	1RB#24	20.69	22.54	34.77	PASS
BAND17	10MHz	64QAM	23800	1RB#49	20.54	22.39	34.77	PASS
BAND17	10MHz	64QAM	23800	25RB#0	19.58	21.43	34.77	PASS
BAND17	10MHz	64QAM	23800	25RB#12	19.56	21.41	34.77	PASS
BAND17	10MHz	64QAM	23800	25RB#25	19.51	21.36	34.77	PASS
BAND17	10MHz	64QAM	23800	50RB#0	19.44	21.29	34.77	PASS
BAND17	10MHz	16QAM	23780	1RB#0	21.76	23.61	34.77	PASS
BAND17	10MHz	16QAM	23780	1RB#24	21.64	23.49	34.77	PASS
BAND17	10MHz	16QAM	23780	1RB#49	21.69	23.54	34.77	PASS
BAND17	10MHz	16QAM	23780	25RB#0	20.66	22.51	34.77	PASS
BAND17	10MHz	16QAM	23780	25RB#12	20.6	22.45	34.77	PASS
BAND17	10MHz	16QAM	23780	25RB#25	20.49	22.34	34.77	PASS
BAND17	10MHz	16QAM	23780	50RB#0	20.57	22.42	34.77	PASS
BAND17	10MHz	16QAM	23790	1RB#0	21.86	23.71	34.77	PASS
BAND17	10MHz	16QAM	23790	1RB#24	21.75	23.6	34.77	PASS
BAND17	10MHz	16QAM	23790	1RB#49	21.58	23.43	34.77	PASS
BAND17	10MHz	16QAM	23790	25RB#0	20.67	22.52	34.77	PASS

BAND17	10MHz	16QAM	23790	25RB#12	20.62	22.47	34.77	PASS
BAND17	10MHz	16QAM	23790	25RB#25	20.61	22.46	34.77	PASS
BAND17	10MHz	16QAM	23790	50RB#0	20.58	22.43	34.77	PASS
BAND17	10MHz	16QAM	23800	1RB#0	21.86	23.71	34.77	PASS
BAND17	10MHz	16QAM	23800	1RB#24	21.75	23.6	34.77	PASS
BAND17	10MHz	16QAM	23800	1RB#49	21.63	23.48	34.77	PASS
BAND17	10MHz	16QAM	23800	25RB#0	20.65	22.5	34.77	PASS
BAND17	10MHz	16QAM	23800	25RB#12	20.62	22.47	34.77	PASS
BAND17	10MHz	16QAM	23800	25RB#25	20.6	22.45	34.77	PASS
BAND17	10MHz	16QAM	23800	50RB#0	20.49	22.34	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

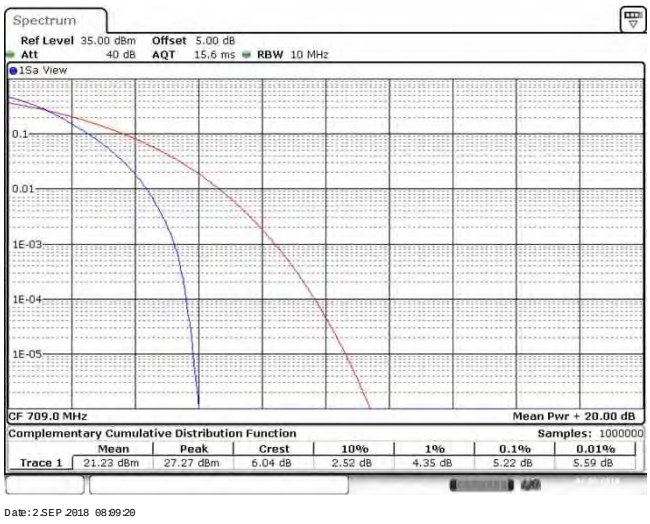
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

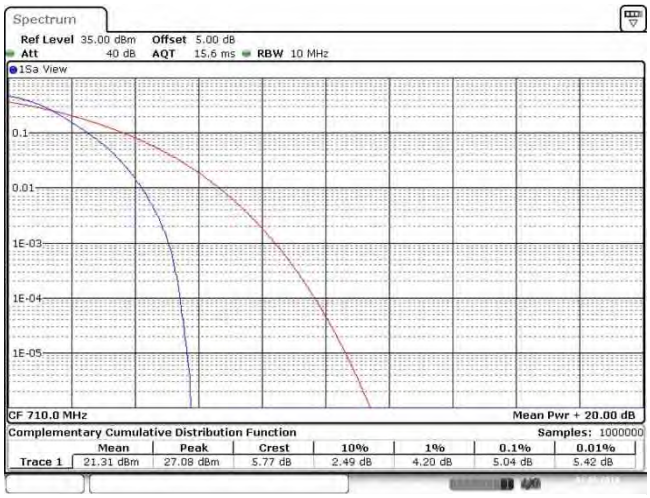
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND17	10MHz	QPSK	23780	50RB#0	5.22	13	PASS
BAND17	10MHz	QPSK	23790	50RB#0	5.04	13	PASS
BAND17	10MHz	QPSK	23800	50RB#0	4.93	13	PASS
BAND17	10MHz	64QAM	23780	50RB#0	5.88	13	PASS
BAND17	10MHz	64QAM	23790	50RB#0	5.80	13	PASS
BAND17	10MHz	64QAM	23800	50RB#0	5.77	13	PASS
BAND17	10MHz	16QAM	23780	50RB#0	5.97	13	PASS
BAND17	10MHz	16QAM	23790	50RB#0	5.86	13	PASS
BAND17	10MHz	16QAM	23800	50RB#0	5.74	13	PASS

2.2. Test Plots

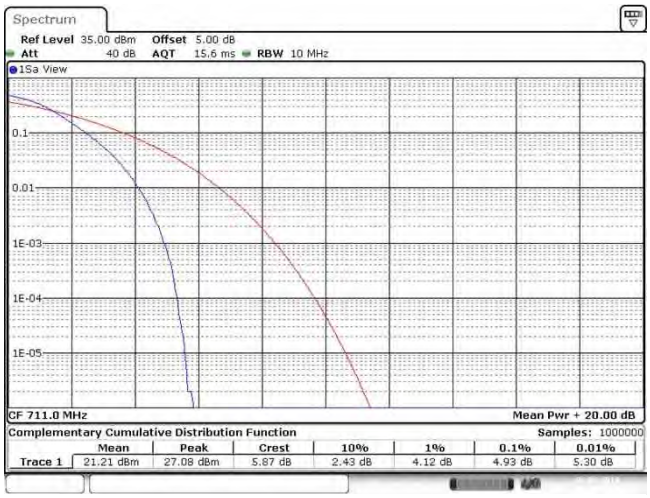
BAND17_10MHz_QPSK_23780_50RB#0



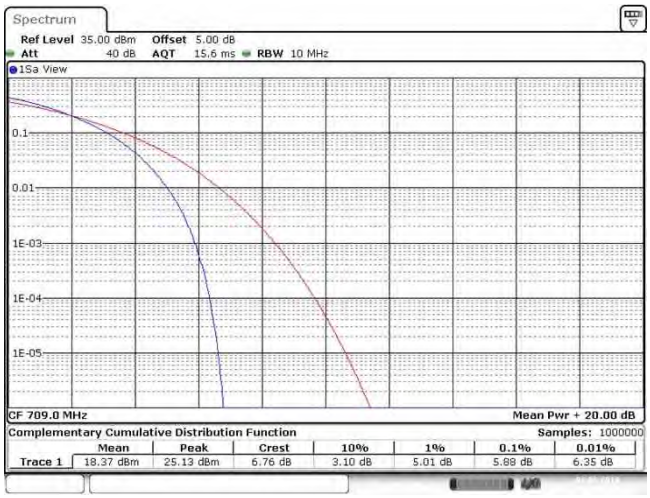
BAND17_10MHz_QPSK_23790_50RB#0



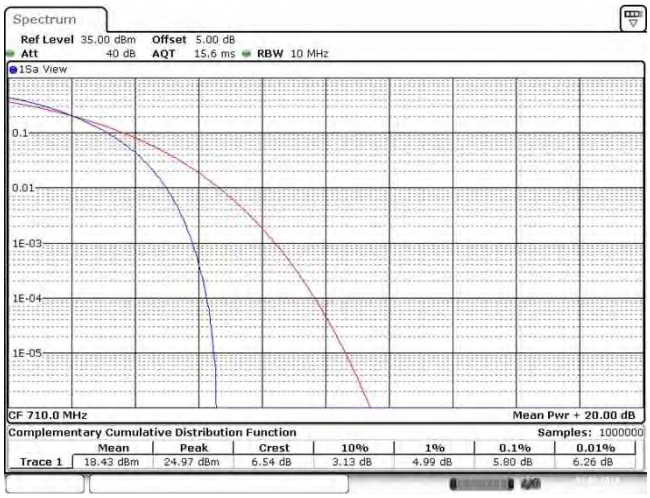
BAND17_10MHz_QPSK_23800_50RB#0



BAND17_10MHz_64QAM_23780_50RB#0

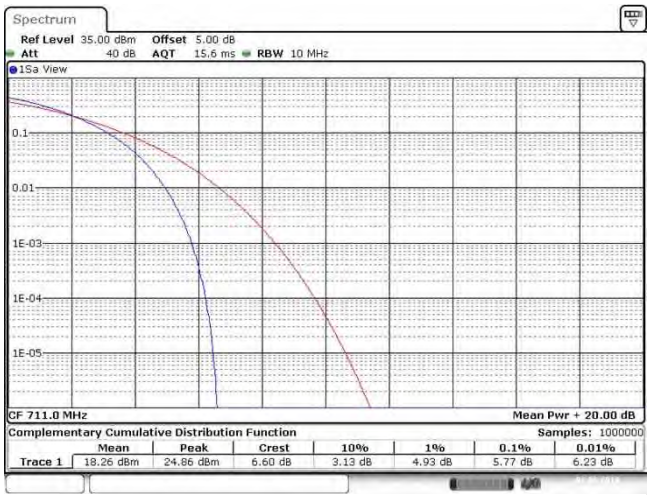


BAND17_10MHz_64QAM_23790_50RB#0



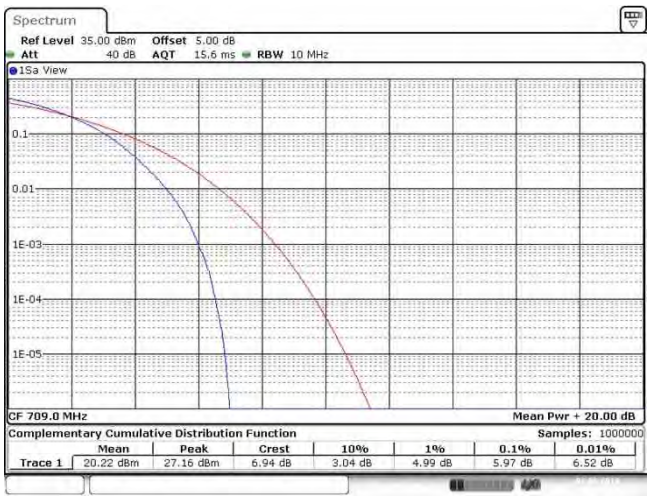
Date: 2.SEP.2018 08:20:51

BAND17_10MHz_64QAM_23800_50RB#0



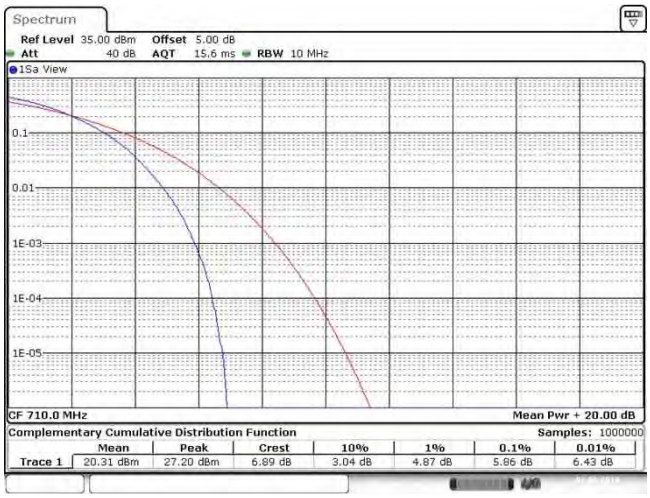
Date: 2.SEP.2018 08:21:00

BAND17_10MHz_16QAM_23780_50RB#0

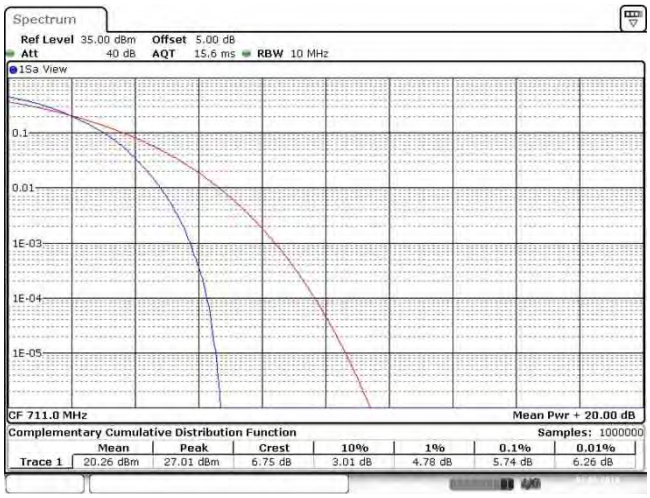


Date: 2.SEP.2018 08:09:29

BAND17_10MHz_16QAM_23790_50RB#0



BAND17_10MHz_16QAM_23800_50RB#0

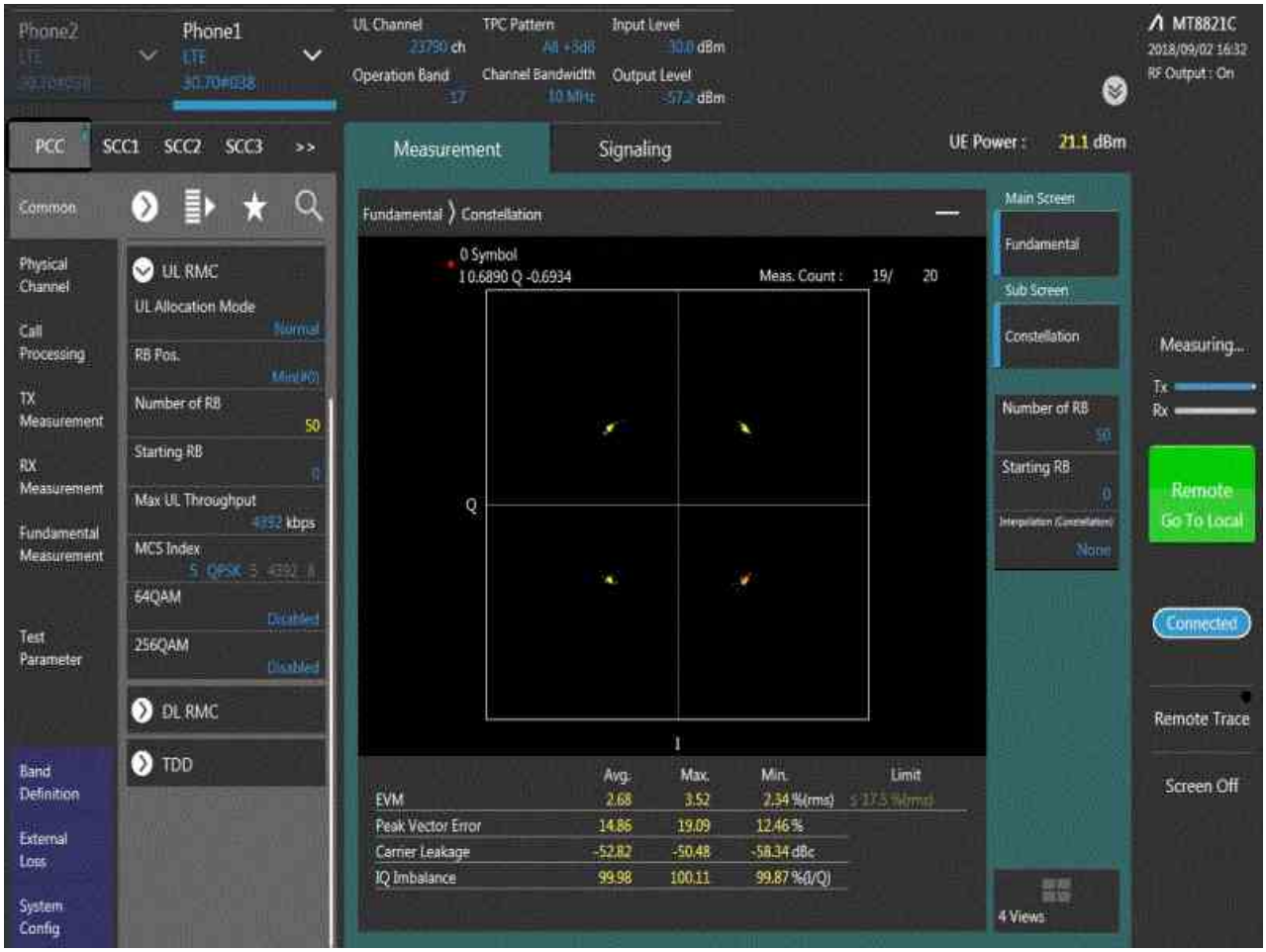


3. Modulation Characteristics

3.1. Test BAND = LTE BAND17

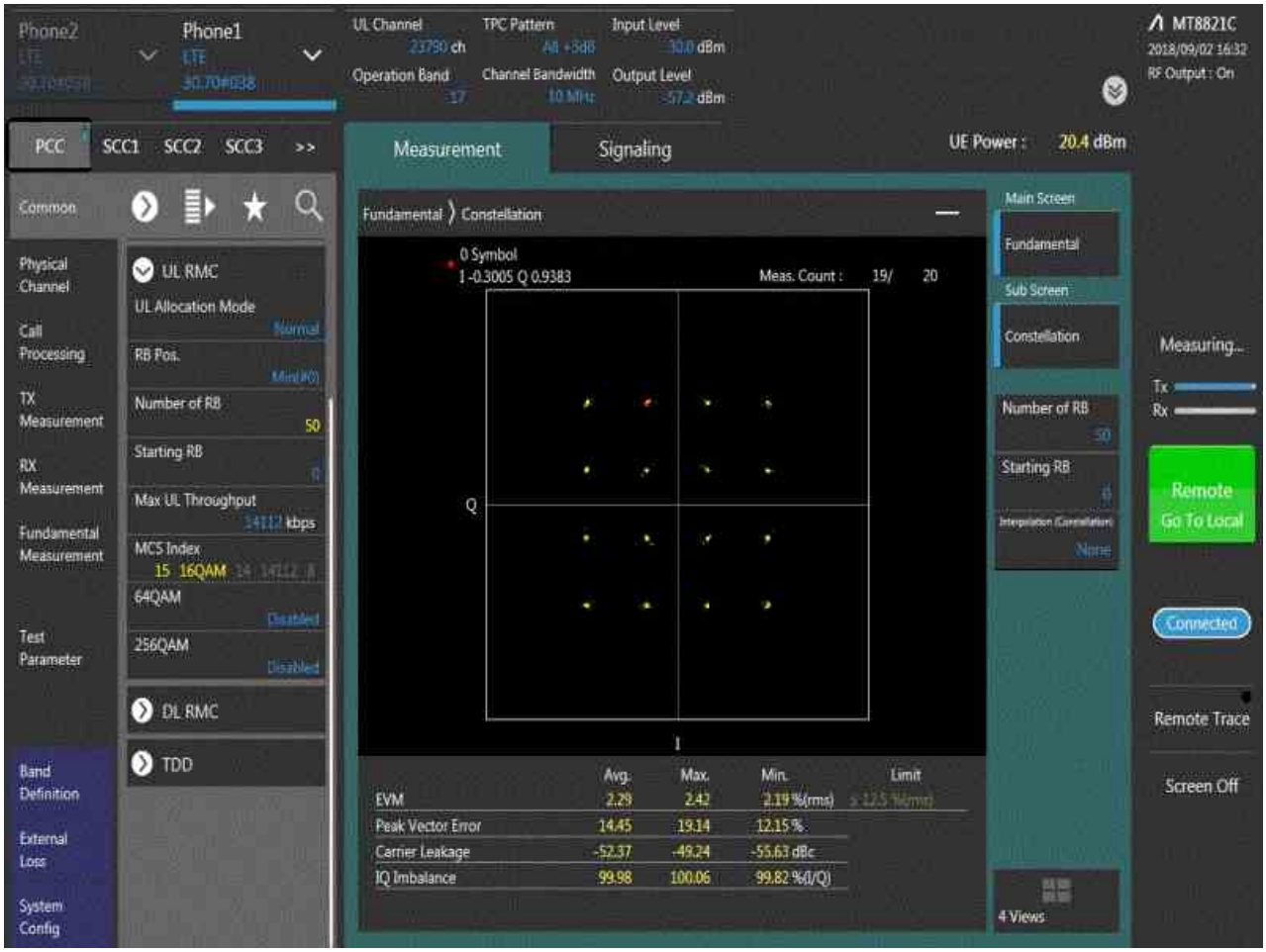
3.1.1. Test Mode = LTE /TM1 10MHz

3.1.1.1. Test Channel = MCH



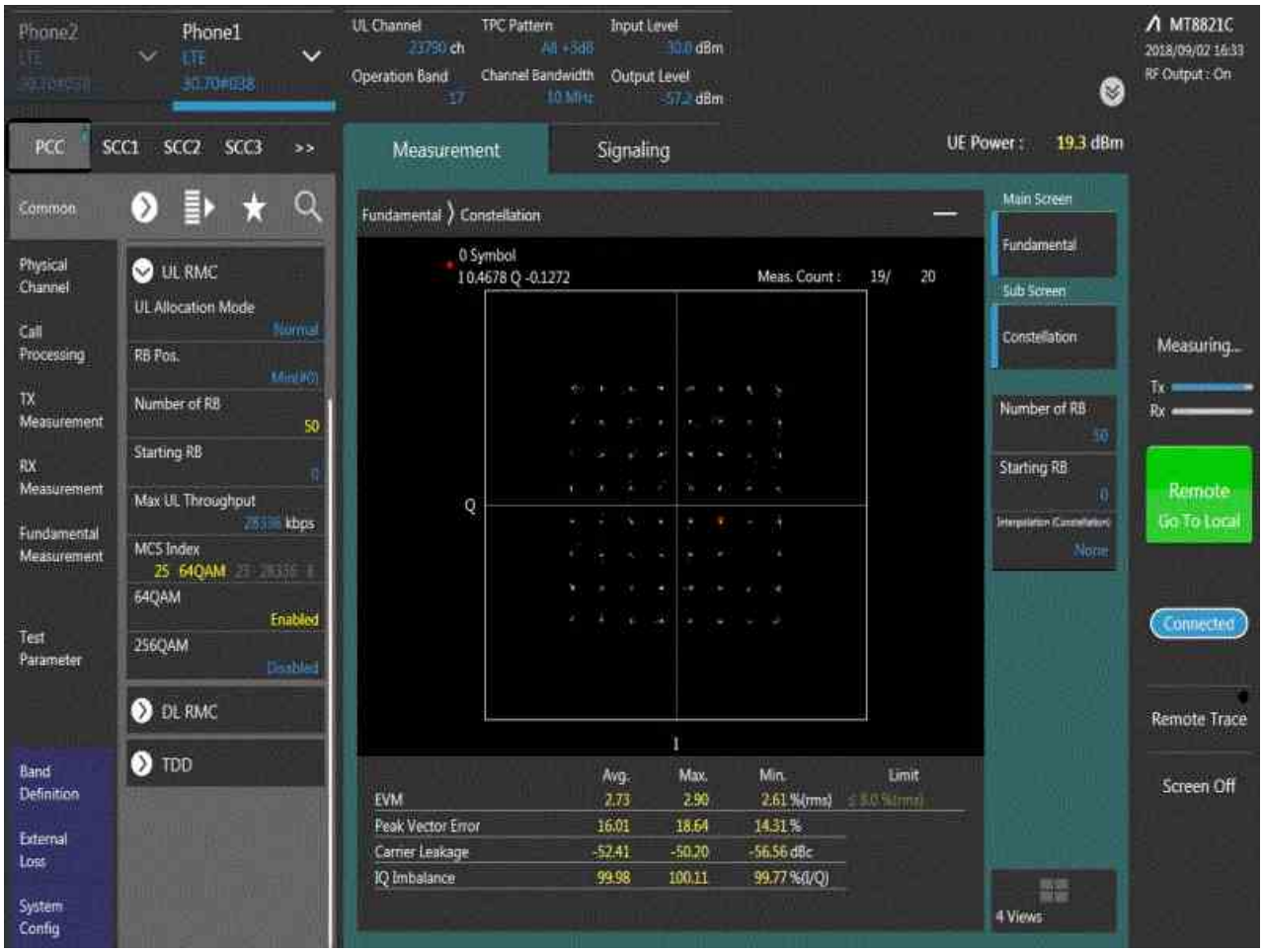
3.1.2. Test Mode = LTE /TM2 10MHz

3.1.2.1. Test Channel = MCH



3.1.1. Test Mode = LTE /TM3 20MHz

3.1.1.1. Test Channel = MCH



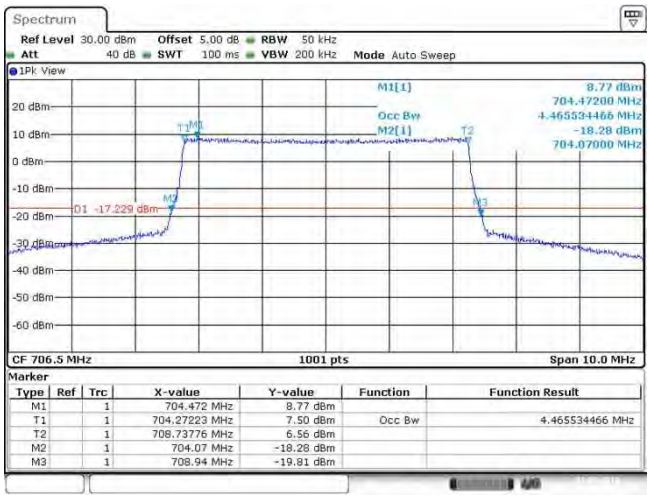
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

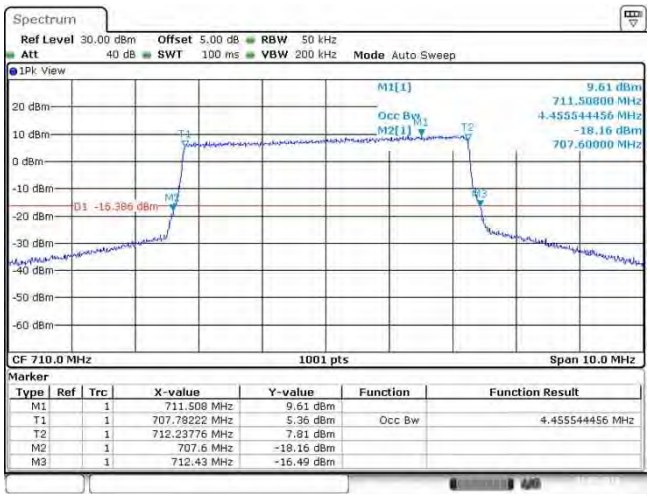
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
BAND17	5MHz	QPSK	23755	25RB#0	4.466	4.870	PASS
BAND17	5MHz	QPSK	23790	25RB#0	4.456	4.830	PASS
BAND17	5MHz	QPSK	23825	25RB#0	4.446	4.830	PASS
BAND17	5MHz	64QAM	23755	25RB#0	4.476	4.870	PASS
BAND17	5MHz	64QAM	23790	25RB#0	4.456	4.840	PASS
BAND17	5MHz	64QAM	23825	25RB#0	4.456	4.870	PASS
BAND17	5MHz	16QAM	23755	25RB#0	4.466	4.850	PASS
BAND17	5MHz	16QAM	23790	25RB#0	4.456	4.840	PASS
BAND17	5MHz	16QAM	23825	25RB#0	4.456	4.840	PASS
BAND17	10MHz	QPSK	23780	50RB#0	8.931	9.960	PASS
BAND17	10MHz	QPSK	23790	50RB#0	8.911	9.920	PASS
BAND17	10MHz	QPSK	23800	50RB#0	8.891	9.860	PASS
BAND17	10MHz	64QAM	23780	50RB#0	8.931	9.980	PASS
BAND17	10MHz	64QAM	23790	50RB#0	8.911	9.960	PASS
BAND17	10MHz	64QAM	23800	50RB#0	8.891	10.000	PASS
BAND17	10MHz	16QAM	23780	50RB#0	8.931	10.000	PASS
BAND17	10MHz	16QAM	23790	50RB#0	8.891	9.940	PASS
BAND17	10MHz	16QAM	23800	50RB#0	8.891	10.020	PASS

4.2. Test Plots

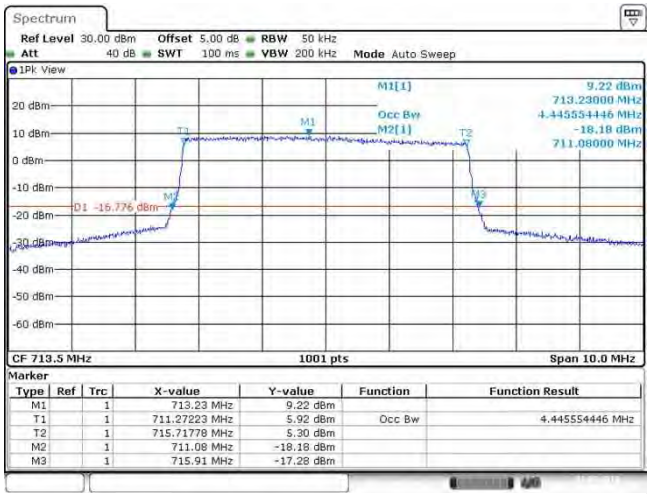
BAND17_5MHz_QPSK_23755_25RB#0



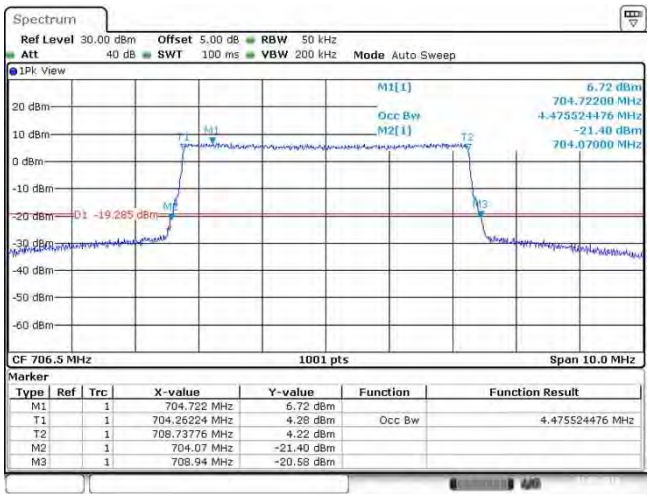
BAND17_5MHz_QPSK_23790_25RB#0



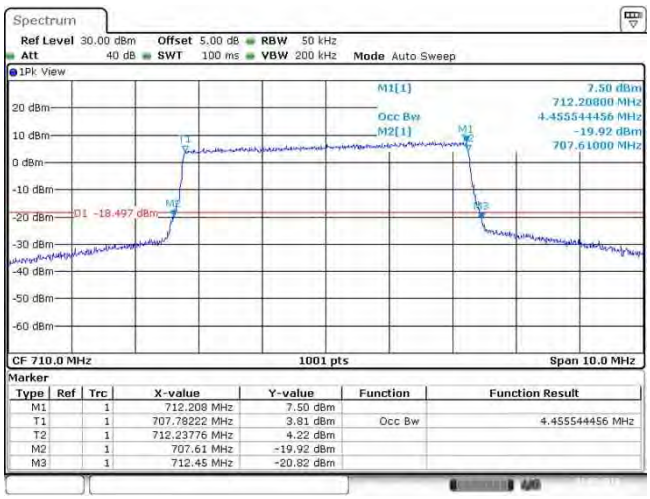
BAND17_5MHz_QPSK_23825_25RB#0



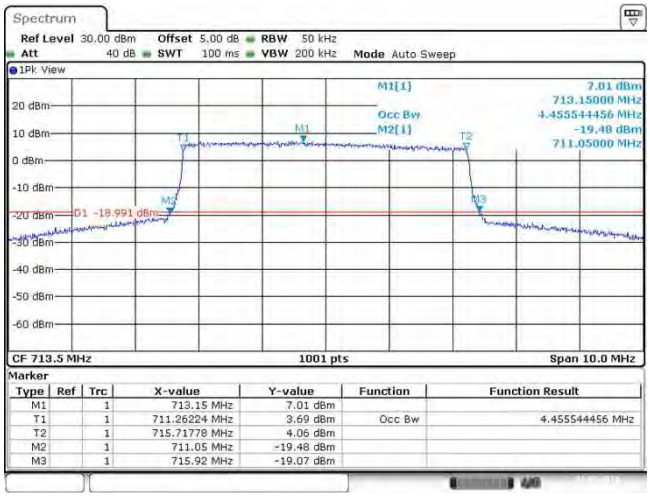
BAND17_5MHz_64QAM_23755_25RB#0



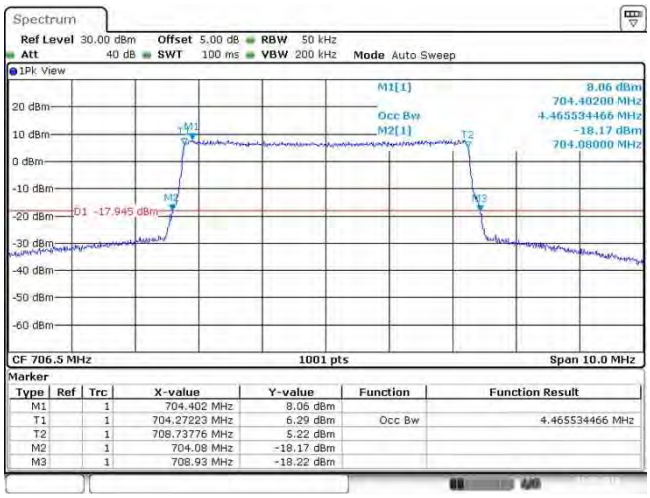
BAND17_5MHz_64QAM_23790_25RB#0



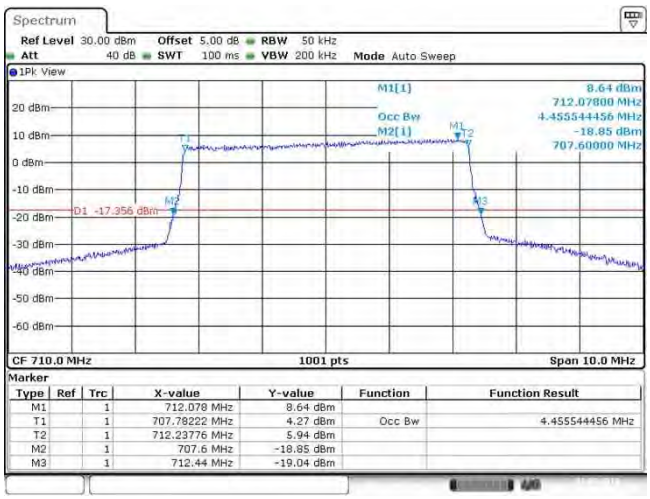
BAND17_5MHz_64QAM_23825_25RB#0



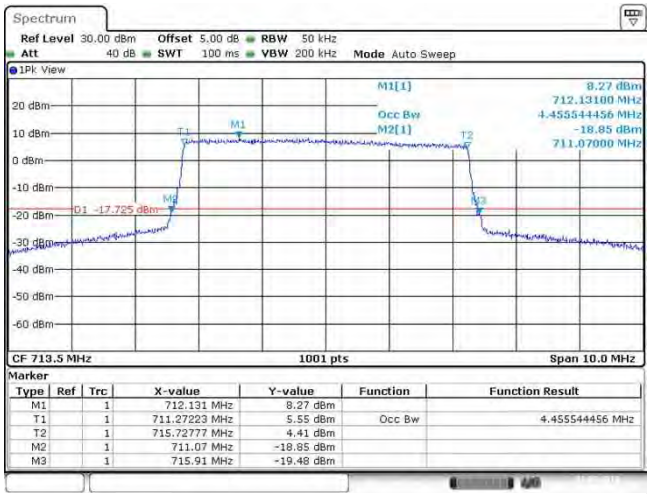
BAND17_5MHz_16QAM_23755_25RB#0



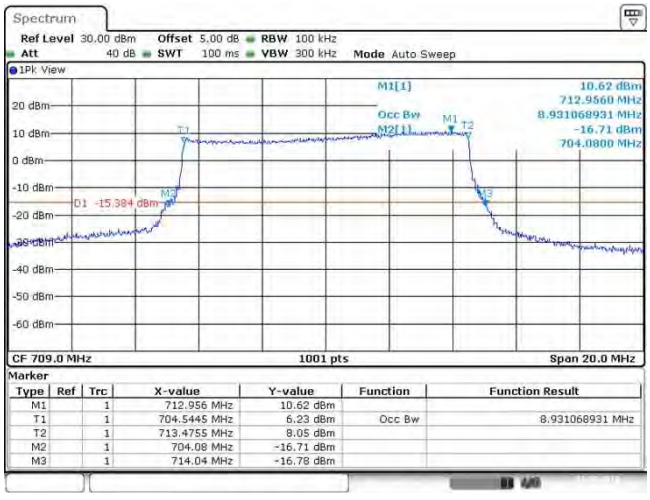
BAND17_5MHz_16QAM_23790_25RB#0



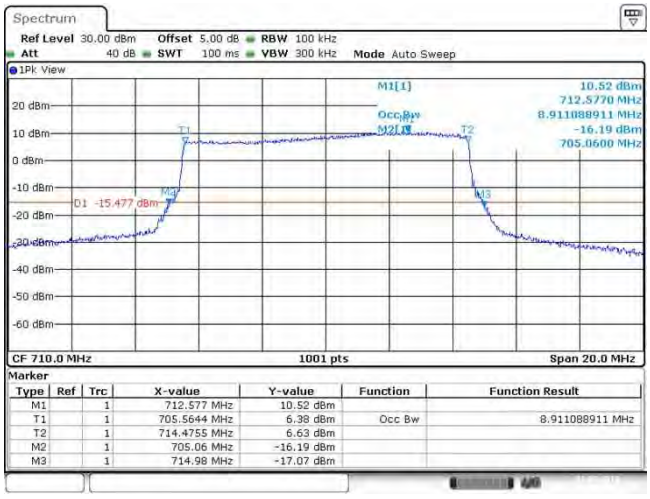
BAND17_5MHz_16QAM_23825_25RB#0



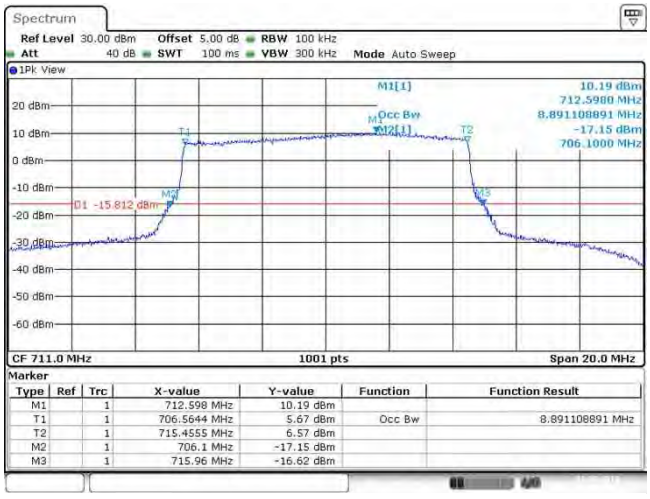
BAND17_10MHz_QPSK_23780_50RB#0



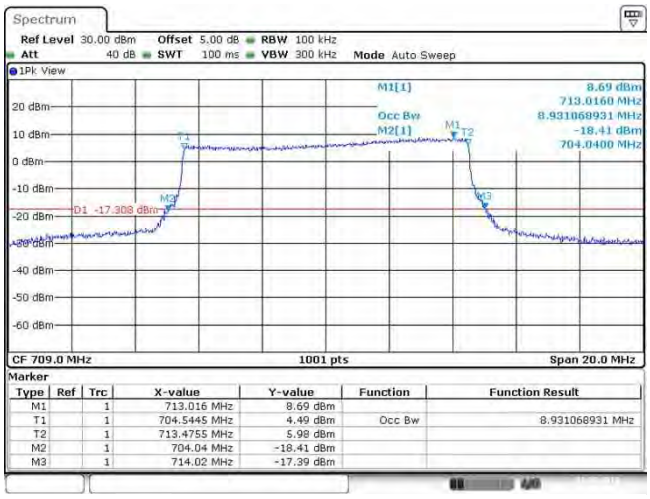
BAND17_10MHz_QPSK_23790_50RB#0



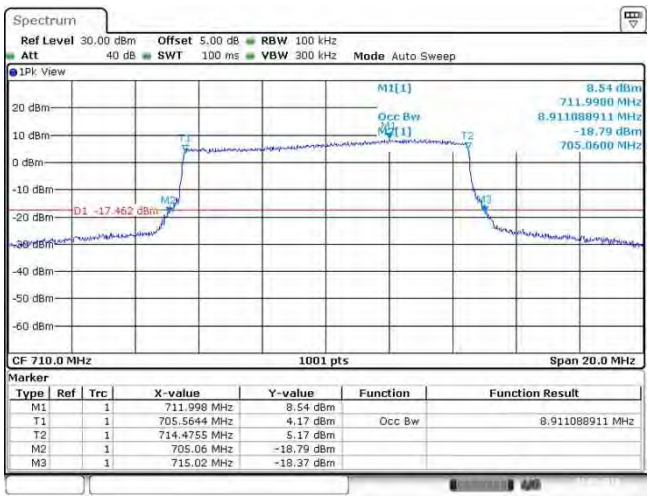
BAND17_10MHz_QPSK_23800_50RB#0



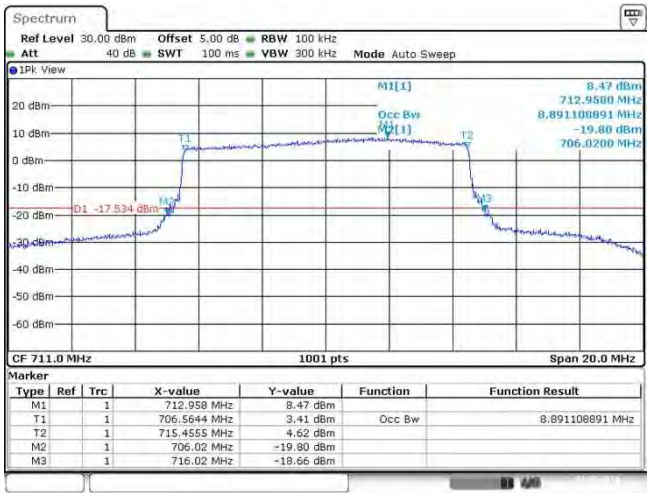
BAND17_10MHz_64QAM_23780_50RB#0



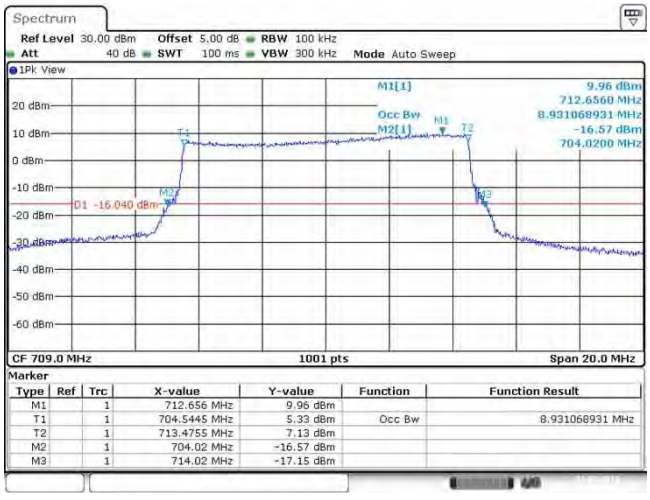
BAND17_10MHz_64QAM_23790_50RB#0



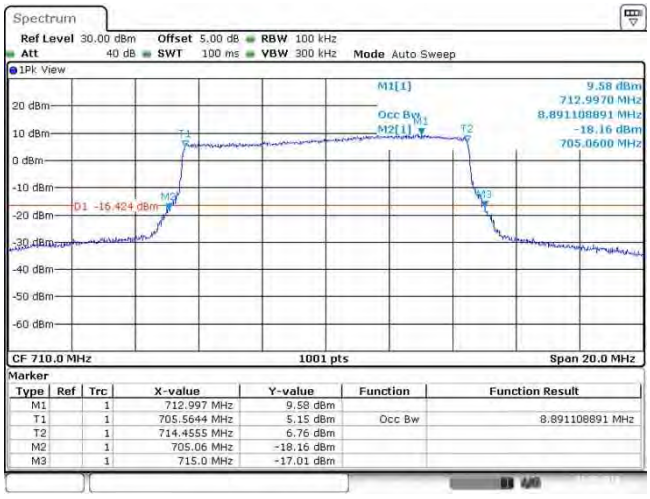
BAND17_10MHz_64QAM_23800_50RB#0



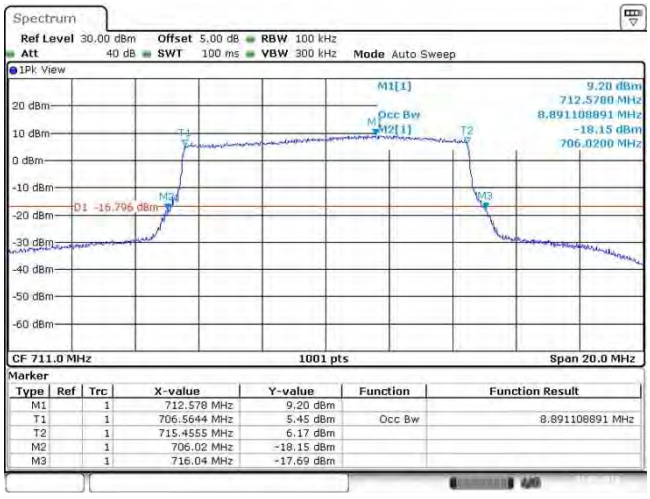
BAND17_10MHz_16QAM_23780_50RB#0



BAND17_10MHz_16QAM_23790_50RB#0



BAND17_10MHz_16QAM_23800_50RB#0



5. Band Edge Compliance

5.1. Test Plots

BAND17_5MHz_QPSK_23755_1RB#0

BAND17_5MHz_QPSK_23755_25RB#0

BAND17_5MHz_QPSK_23825_1RB#24

BAND17_5MHz_64QAM_23755_1RB#0

BAND17_5MHz_64QAM_23755_25RB#0

BAND17_5MHz_64QAM_23825_1RB#24

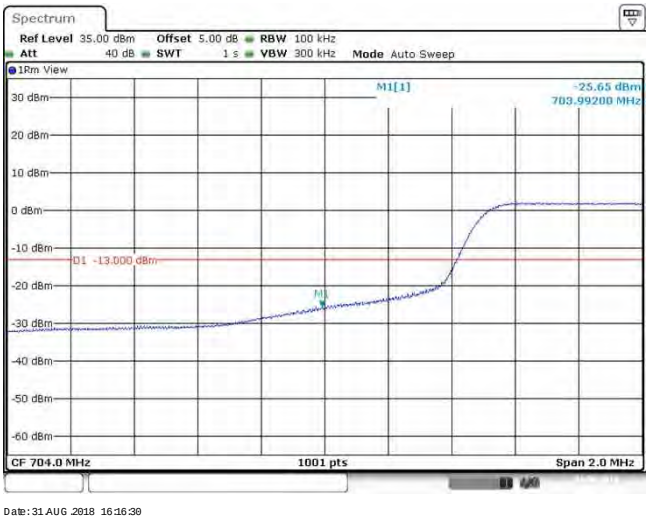
BAND17_5MHz_16QAM_23755_1RB#0

BAND17_5MHz_16QAM_23755_25RB#0

BAND17_5MHz_16QAM_23825_1RB#24

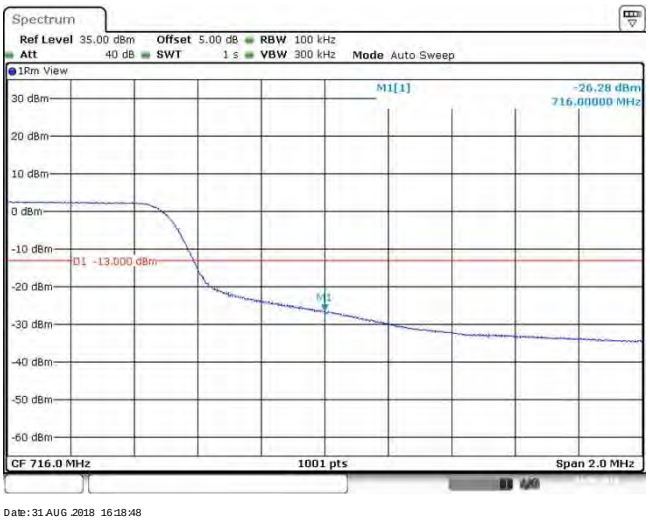
BAND17_10MHz_QPSK_23780_1RB#0

BAND17_10MHz_QPSK_23780_50RB#0



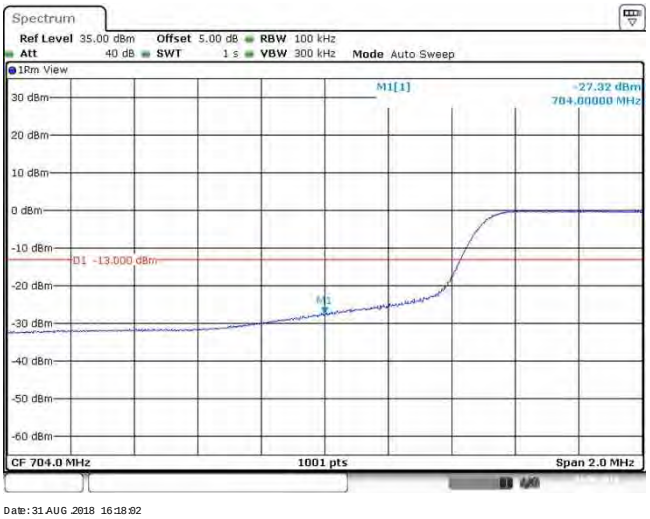
BAND17_10MHz_QPSK_23800_1RB#49

BAND17_10MHz_QPSK_23800_50RB#0



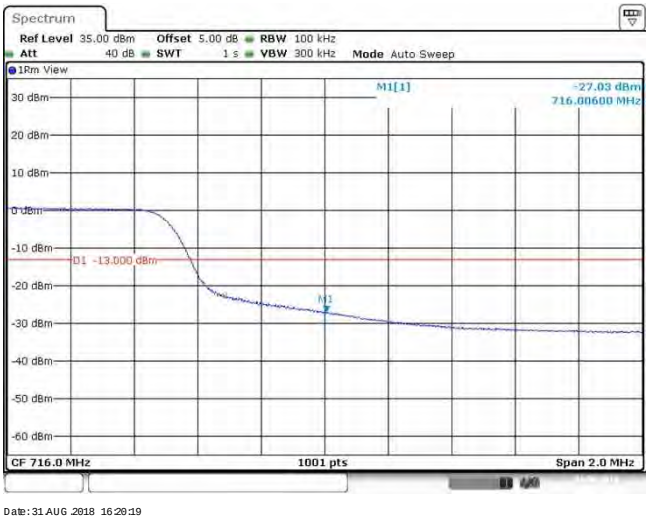
BAND17_10MHz_64QAM_23780_1RB#0

BAND17_10MHz_64QAM_23780_50RB#0



BAND17_10MHz_64QAM_23800_1RB#49

BAND17_10MHz_64QAM_23800_50RB#0

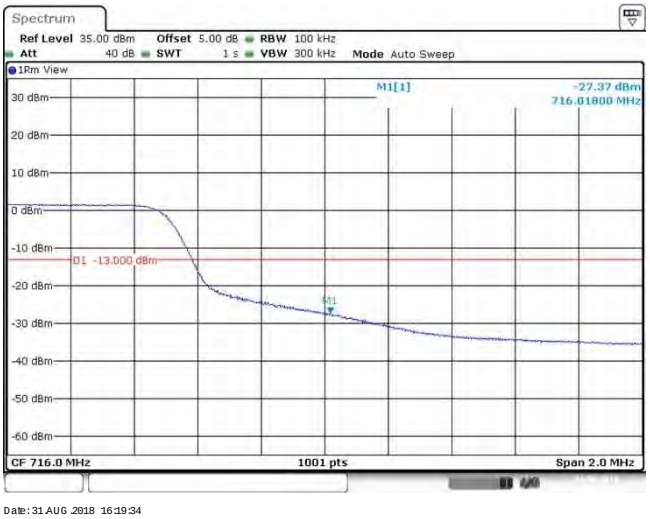


BAND17_10MHz_16QAM_23780_1RB#0

BAND17_10MHz_16QAM_23780_50RB#0

BAND17_10MHz_16QAM_23800_1RB#49

BAND17_10MHz_16QAM_23800_50RB#0



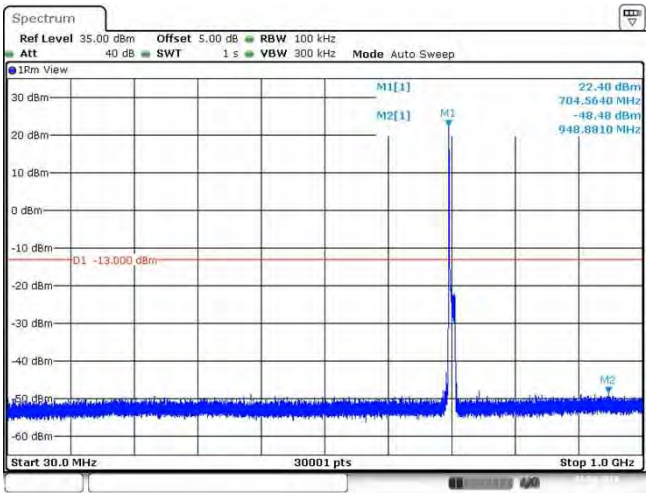
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

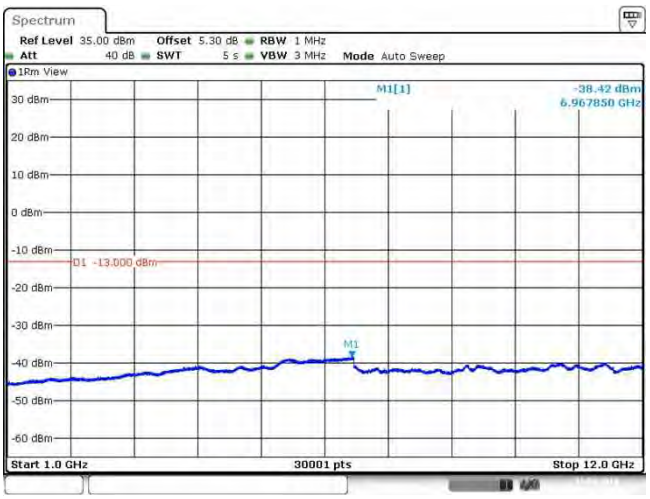
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

BAND17_10MHz_QPSK_23780_1RB#0

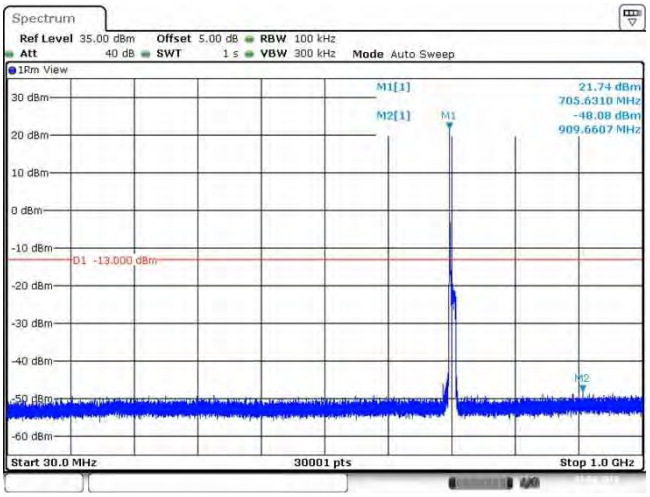


Date: 31.AUG.2018 17:11:09

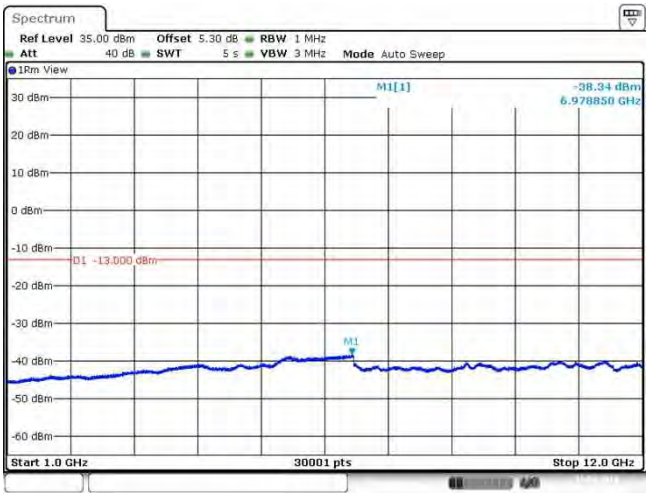


Date: 31.AUG.2018 17:12:17

BAND17_10MHz_QPSK_23790_1RB#0

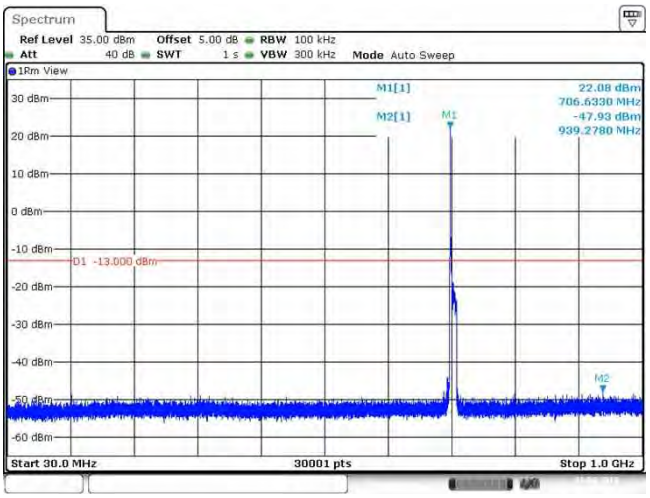


Date: 31.AUG.2018 17:15:31

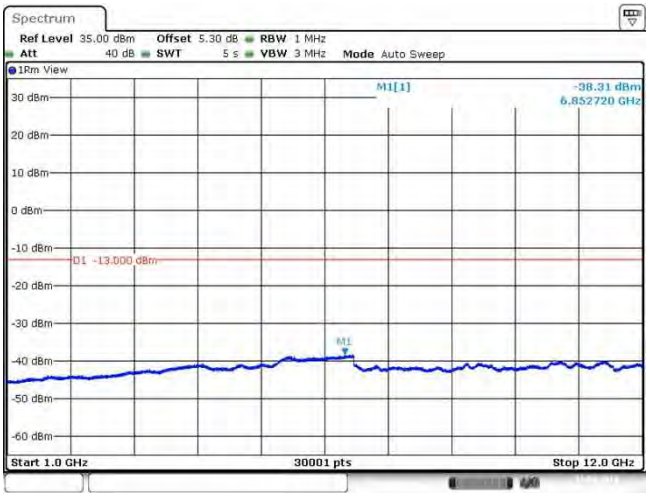


Date: 31.AUG.2018 17:16:39

BAND17_10MHz_QPSK_23800_1RB#0

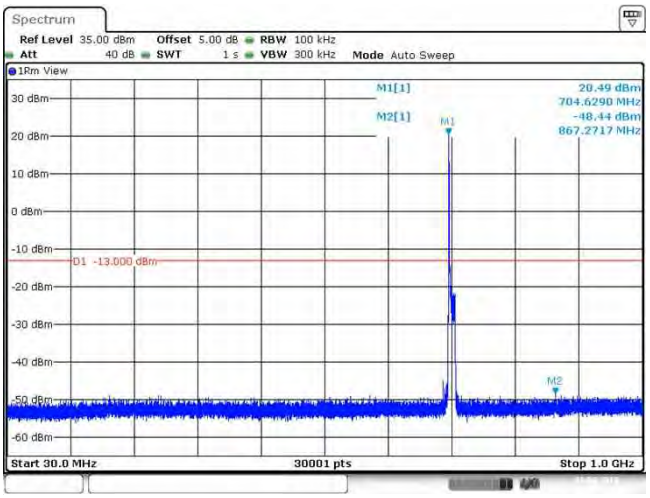


Date: 31.AUG.2018 17:19:52

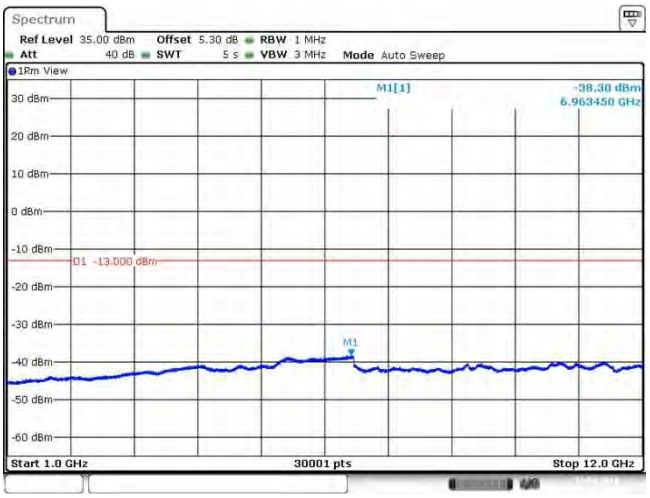


Date: 31.AUG.2018 17:20:59

BAND17_10MHz_64QAM_23780_1RB#0

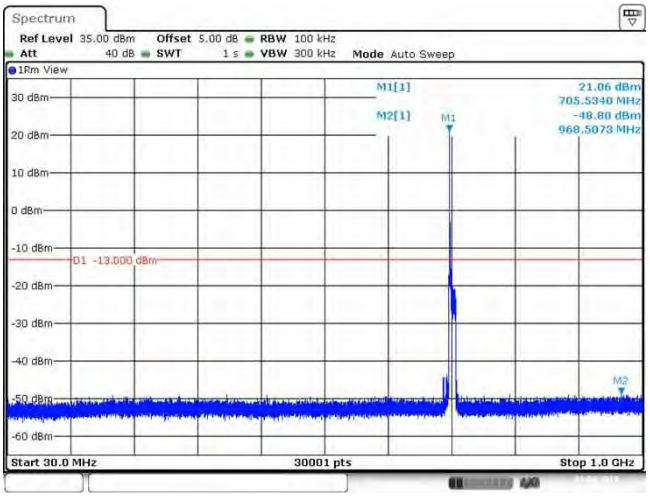


Date: 31.AUG.2018 17:14:03

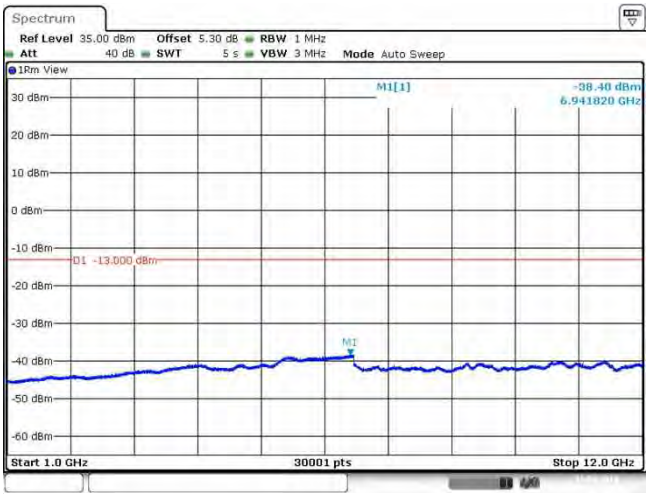


Date: 31.AUG.2018 17:15:11

BAND17_10MHz_64QAM_23790_1RB#0

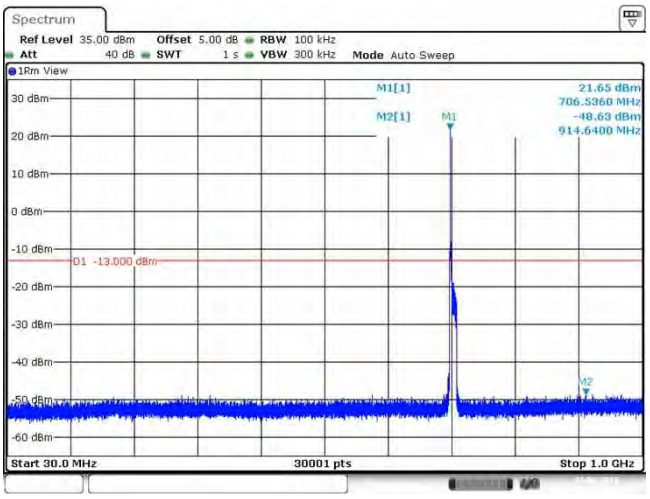


Date: 31.AUG.2018 17:18:25

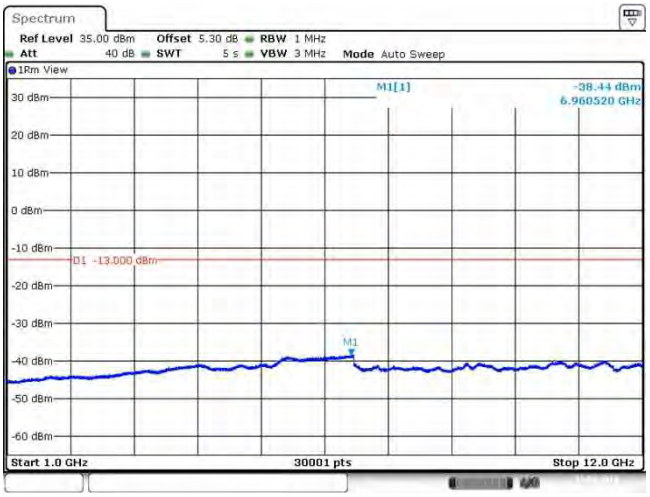


Date: 31.AUG.2018 17:19:32

BAND17_10MHz_64QAM_23800_1RB#0

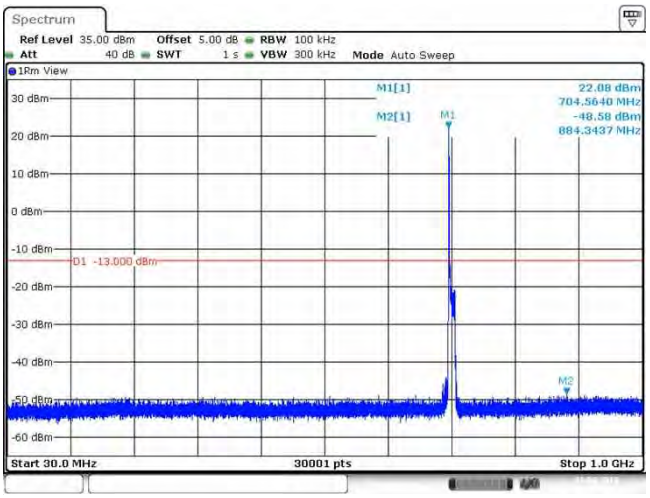


Date: 31.AUG.2018 17:22:45

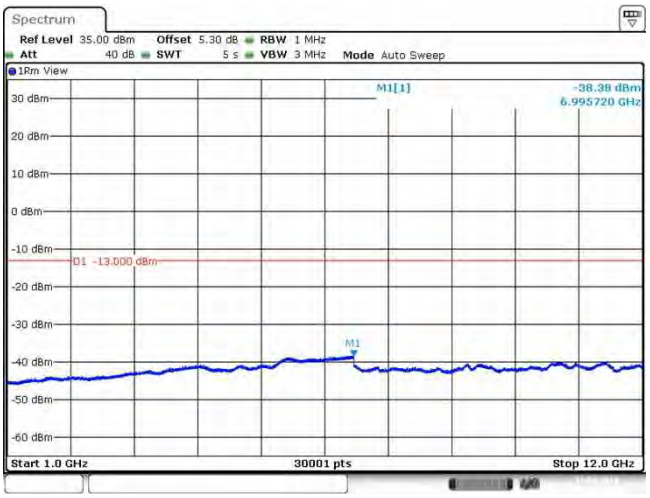


Date: 31.AUG.2018 17:23:53

BAND17_10MHz_16QAM_23780_1RB#0

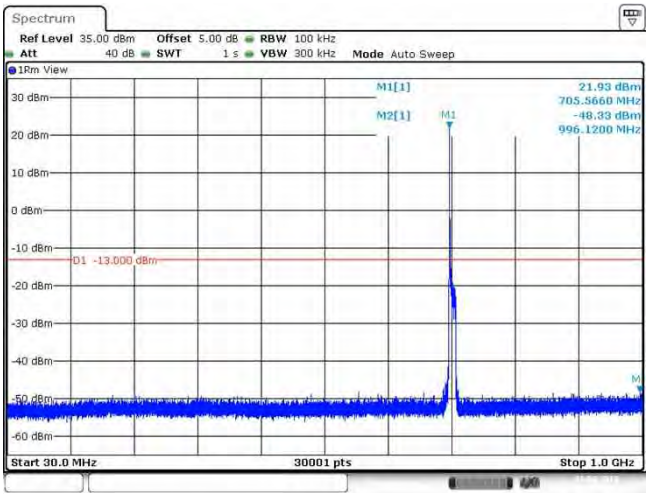


Date: 31.AUG.2018 17:12:36

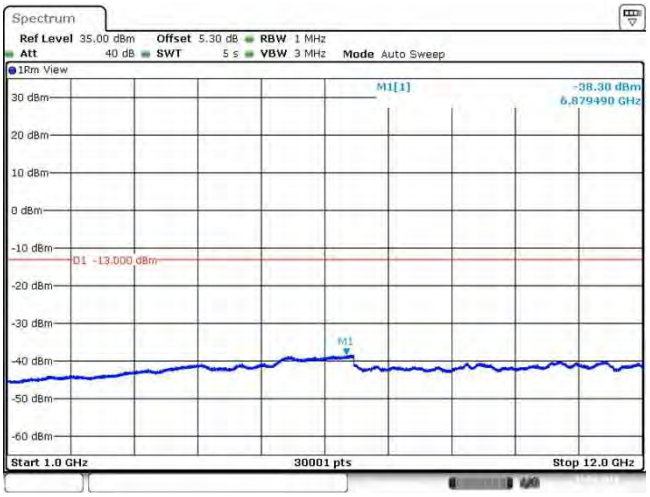


Date: 31.AUG.2018 17:13:44

BAND17_10MHz_16QAM_23790_1RB#0

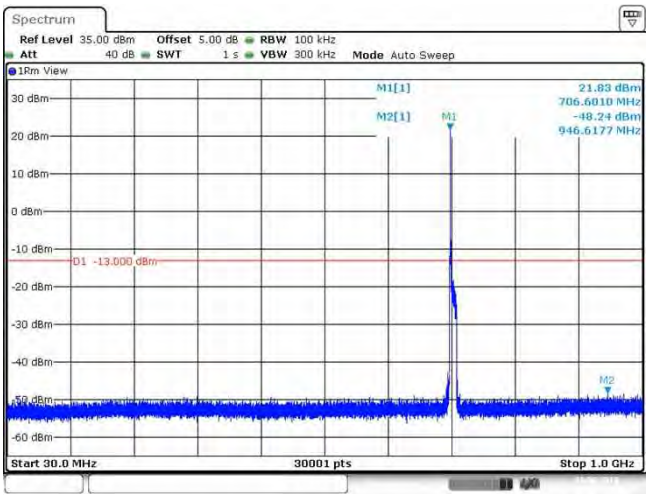


Date: 31.AUG.2018 17:16:58

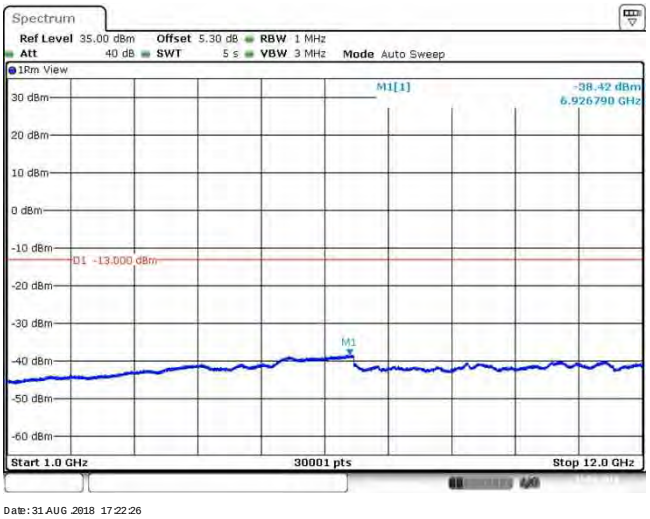


Date: 31.AUG.2018 17:18:06

BAND17_10MHz_16QAM_23800_1RB#0



Date: 31.AUG.2018 17:21:19



7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 17

7.1.1. Test Mode =LTE/TM1 10MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.393333	-79.53	-13.00	66.53	Vertical
533.279167	-78.72	-13.00	65.72	Vertical
1409.000000	-65.24	-13.00	52.24	Vertical
4298.700000	-66.88	-13.00	53.88	Vertical
6059.062500	-65.09	-13.00	52.09	Vertical
9248.775000	-63.47	-13.00	50.47	Vertical
63.786667	-76.57	-13.00	63.57	Horizontal
553.950000	-76.62	-13.00	63.62	Horizontal
1409.500000	-66.81	-13.00	53.81	Horizontal
2682.000000	-57.79	-13.00	44.79	Horizontal
4314.787500	-66.70	-13.00	53.70	Horizontal
7933.987500	-63.74	-13.00	50.74	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
62.293333	-73.87	-13.00	60.87	Vertical
344.253333	-65.62	-13.00	52.62	Vertical
1411.000000	-65.01	-13.00	52.01	Vertical
2651.500000	-57.76	-13.00	44.76	Vertical
4276.275000	-66.95	-13.00	53.95	Vertical
7934.962500	-63.71	-13.00	50.71	Vertical
62.433333	-78.00	-13.00	65.00	Horizontal
438.986667	-67.38	-13.00	54.38	Horizontal
1411.000000	-66.59	-13.00	53.59	Horizontal
2710.500000	-57.76	-13.00	44.76	Horizontal

4295.775000	-66.63	-13.00	53.63	Horizontal
7964.212500	-63.49	-13.00	50.49	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.346667	-81.78	-13.00	68.78	Vertical
589.562500	-76.91	-13.00	63.91	Vertical
1413.000000	-65.26	-13.00	52.26	Vertical
4272.862500	-66.93	-13.00	53.93	Vertical
6041.512500	-65.08	-13.00	52.08	Vertical
7934.962500	-63.68	-13.00	50.68	Vertical
62.620000	-77.67	-13.00	64.67	Horizontal
486.895833	-66.35	-13.00	53.35	Horizontal
978.641667	-60.86	-13.00	47.86	Horizontal
1413.000000	-65.97	-13.00	52.97	Horizontal
5078.700000	-66.43	-13.00	53.43	Horizontal
7863.300000	-63.62	-13.00	50.62	Horizontal

Remark:

1) The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.

8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND17	10MHz	QPSK	23780	50RB#0	VL	NT	1.90	0.002680	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	VN	NT	3.20	0.004513	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	VH	NT	3.40	0.004795	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	VL	NT	1.30	0.001831	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	VN	NT	0.50	0.000704	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	VH	NT	0.30	0.000423	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	VL	NT	2.30	0.003235	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	VN	NT	2.40	0.003376	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	VH	NT	3.80	0.005345	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	VL	NT	2.90	0.004090	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	VN	NT	1.10	0.001551	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	VH	NT	2.20	0.003103	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	VL	NT	3.80	0.005352	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	VN	NT	0.70	0.000986	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	VH	NT	2.80	0.003944	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	VL	NT	2.60	0.003657	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	VN	NT	3.70	0.005204	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	VH	NT	1.50	0.002110	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	VL	NT	1.70	0.002398	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	VN	NT	4.30	0.006065	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	VH	NT	0.80	0.001128	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	VL	NT	1.30	0.001831	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	VN	NT	4.60	0.006479	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	VH	NT	2.90	0.004085	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	VL	NT	1.20	0.001688	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	VN	NT	2.90	0.004079	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	VH	NT	3.60	0.005063	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND17	10MHz	QPSK	23780	50RB#0	NV	-30	2.50	0.003526	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	-20	0.40	0.000564	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	-10	1.90	0.002680	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	0	2.70	0.003808	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	10	2.80	0.003949	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	20	2.10	0.002962	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	30	2.30	0.003244	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	40	2.10	0.002962	±2.5	PASS
BAND17	10MHz	QPSK	23780	50RB#0	NV	50	2.10	0.002962	±2.5	PASS

BAND17	10MHz	QPSK	23790	50RB#0	NV	-30	2.30	0.003239	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	-20	1.80	0.002535	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	-10	0.70	0.000986	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	0	0.40	0.000563	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	10	3.90	0.005493	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	20	1.70	0.002394	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	30	1.00	0.001408	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	40	2.30	0.003239	±2.5	PASS
BAND17	10MHz	QPSK	23790	50RB#0	NV	50	1.70	0.002394	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	-30	3.30	0.004641	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	-20	2.80	0.003938	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	-10	1.30	0.001828	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	0	1.70	0.002391	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	10	2.50	0.003516	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	20	3.10	0.004360	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	30	2.00	0.002813	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	40	2.20	0.003094	±2.5	PASS
BAND17	10MHz	QPSK	23800	50RB#0	NV	50	2.40	0.003376	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	-30	1.60	0.002257	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	-20	2.40	0.003385	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	-10	0.40	0.000564	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	0	1.60	0.002257	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	10	1.20	0.001693	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	20	3.10	0.004372	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	30	2.50	0.003526	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	40	3.10	0.004372	±2.5	PASS
BAND17	10MHz	64QAM	23780	50RB#0	NV	50	1.20	0.001693	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	-30	3.10	0.004366	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	-20	1.30	0.001831	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	-10	2.20	0.003099	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	0	3.30	0.004648	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	10	1.80	0.002535	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	20	1.80	0.002535	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	30	2.00	0.002817	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	40	2.10	0.002958	±2.5	PASS
BAND17	10MHz	64QAM	23790	50RB#0	NV	50	3.20	0.004507	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	-30	-0.10	-0.000141	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	-20	1.90	0.002672	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	-10	1.60	0.002250	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	0	2.20	0.003094	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	10	2.60	0.003657	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	20	1.30	0.001828	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	30	1.90	0.002672	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	40	1.10	0.001547	±2.5	PASS
BAND17	10MHz	64QAM	23800	50RB#0	NV	50	3.00	0.004219	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	-30	1.90	0.002680	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	-20	3.50	0.004937	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	-10	3.20	0.004513	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	0	3.50	0.004937	±2.5	PASS

BAND17	10MHz	16QAM	23780	50RB#0	NV	10	4.30	0.006065	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	20	1.30	0.001834	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	30	3.10	0.004372	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	40	1.30	0.001834	±2.5	PASS
BAND17	10MHz	16QAM	23780	50RB#0	NV	50	2.00	0.002821	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	-30	3.10	0.004366	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	-20	0.90	0.001268	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	-10	2.40	0.003380	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	0	1.30	0.001831	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	10	0.20	0.000282	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	20	1.50	0.002113	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	30	2.40	0.003380	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	40	2.60	0.003662	±2.5	PASS
BAND17	10MHz	16QAM	23790	50RB#0	NV	50	2.50	0.003521	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	-30	1.50	0.002110	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	-20	3.20	0.004501	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	-10	1.70	0.002391	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	0	1.70	0.002391	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	10	2.80	0.003938	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	20	1.30	0.001828	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	30	1.10	0.001547	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	40	1.50	0.002110	±2.5	PASS
BAND17	10MHz	16QAM	23800	50RB#0	NV	50	1.90	0.002672	±2.5	PASS

The End