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Appendix B E-UTRA BAND 13



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1. Effective (Isotropic) Radiated Power

1.1.Test Result

SG

DAND	Deve deviately		Ohannal	RB	Result	ERP	Limit) (a nali a t
BAND	Bandwidth	Modulation	Channel	Configuration	(dBm)	(dBm)	(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.98	18.53	36.98	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.48	19.03	36.98	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.24	19.79	36.98	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.06	17.61	36.98	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.47	18.02	36.98	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.85	18.40	36.98	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.50	18.05	36.98	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.50	19.05	36.98	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.94	19.49	36.98	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.48	19.03	36.98	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.93	18.48	36.98	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.97	18.52	36.98	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.73	18.28	36.98	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.85	18.40	36.98	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.02	19.57	36.98	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.44	18.99	36.98	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.60	18.15	36.98	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.78	18.33	36.98	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.45	18.00	36.98	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.81	17.36	36.98	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.35	17.90	36.98	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.12	17.67	36.98	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.66	18.21	36.98	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.17	18.72	36.98	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.12	16.67	36.98	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.48	17.03	36.98	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.97	17.52	36.98	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.14	17.69	36.98	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.64	18.19	36.98	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.09	18.64	36.98	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.68	18.23	36.98	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.97	17.52	36.98	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.05	17.60	36.98	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.71	17.26	36.98	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.44	18.69	36.98	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.11	18.66	36.98	PASS

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Band13	5MHz	16QAM	23255	1RB#12	22.76	18.31	36.98	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.77	17.32	36.98	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.68	17.23	36.98	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.41	16.96	36.98	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.84	16.39	36.98	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.47	18.52	36.98	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.62	18.17	36.98	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.35	19.90	36.98	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.56	18.11	36.98	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.66	18.21	36.98	PASS
Band13	10MHz	QPSK	23230	25RB#12	23.25	18.80	36.98	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.73	18.28	36.98	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.92	18.47	36.98	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.83	17.38	36.98	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.43	19.08	36.98	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.82	17.37	36.98	PASS
Band13	10MHz	16QAM	23230	27RB#0	22.07	17.62	36.98	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



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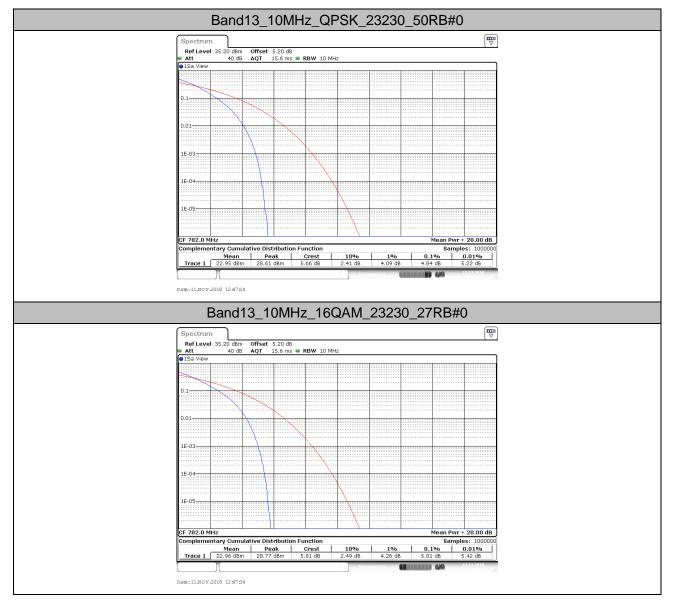
2. Peak-to-Average Ratio(CCDF)

2.1.Test Result

S

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	4.84	13	PASS
Band13	10MHz	16QAM	23230	27RB#0	5.01	13	PASS

2.2. Test Plots



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3. Modulation Characteristics

3.1.Test BAND = LTE BAND13

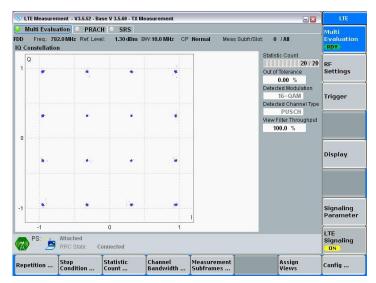
3.1.1. Test Mode = LTE /TM1 10MHz

3.1.1.1. Test Channel = MCH

~			Base V 3.5.60 - TX	Measurement			B	LTE
FDD	Multi Evalu Freq.: 78 Constellatio	2.0 MHz Ref. L	ACH SRS evel: 41.00 dBm	BW: 10.0 MHz	CP :Normal	Meas Subfr/Slot	2 /Ali	Multi Evaluation RDY
1	Q						Statistic Count 100 / 100 Dut of Tolerance 0.00 %	RF Settings
		N :					Otected Modulation QPSK Detected Channel Type	Trigger
0						X	PUSCH fiew Filter Throughput 100.0 %	
0						_		Display
		<i>•</i>		1				
-1					1			Signaling Parameter
(e)	-1	Connection Es	0 stablished Connected		1			LTE Signaling ON
Re	petition	Stop Condition	Statistic Count	Channel Bandwidth	Measure Subfram		Assign Views	Config

3.1.2. Test Mode = LTE /TM2 10MHz

3.1.2.1. Test Channel = MCH



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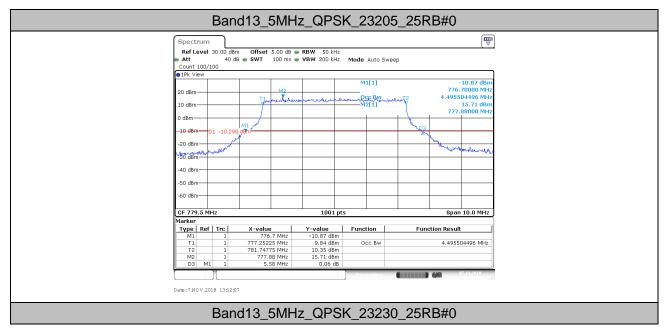
4. 26dB Bandwidth and Occupied Bandwidth

4.1.Test Result

S

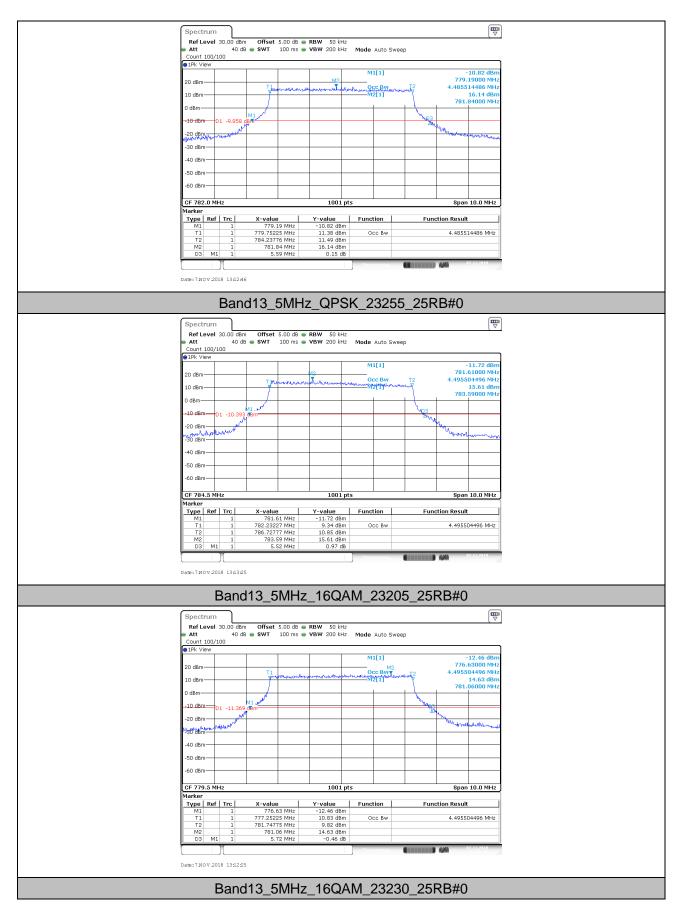
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.496	5.580	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.486	5.590	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.496	5.520	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.496	5.720	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.505	5.700	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.496	5.530	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.911	10.620	PASS
Band13	10MHz	16QAM	23230	27RB#0	4.955	7.440	PASS

4.2. Test Plots



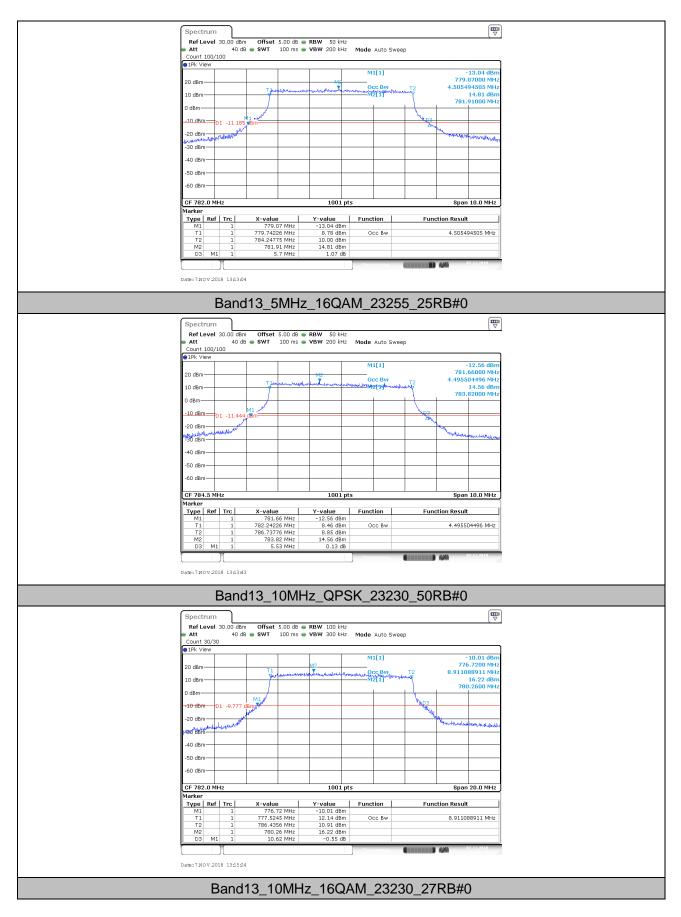


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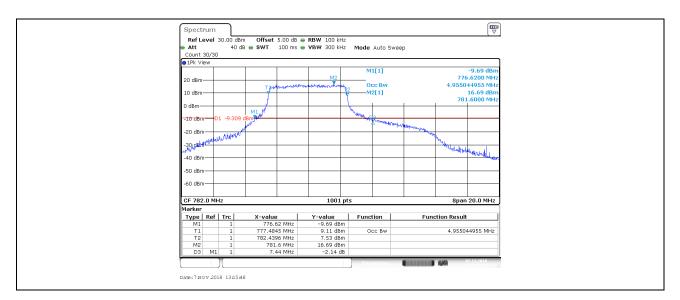


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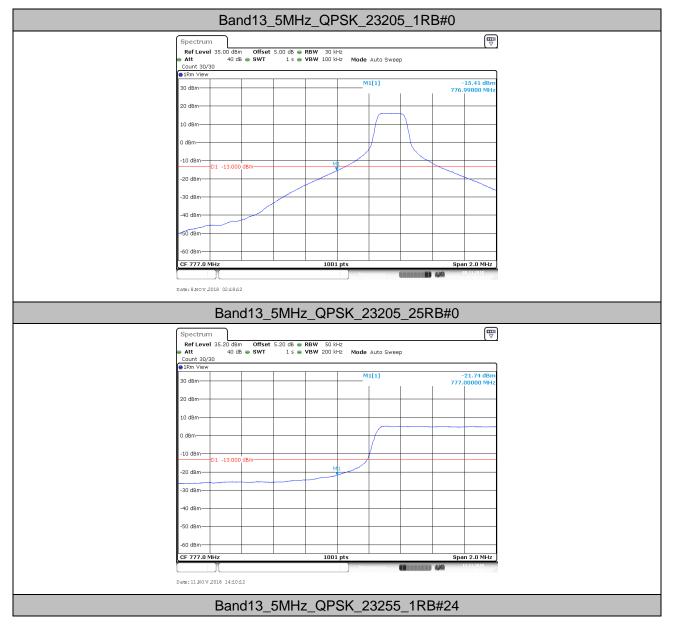




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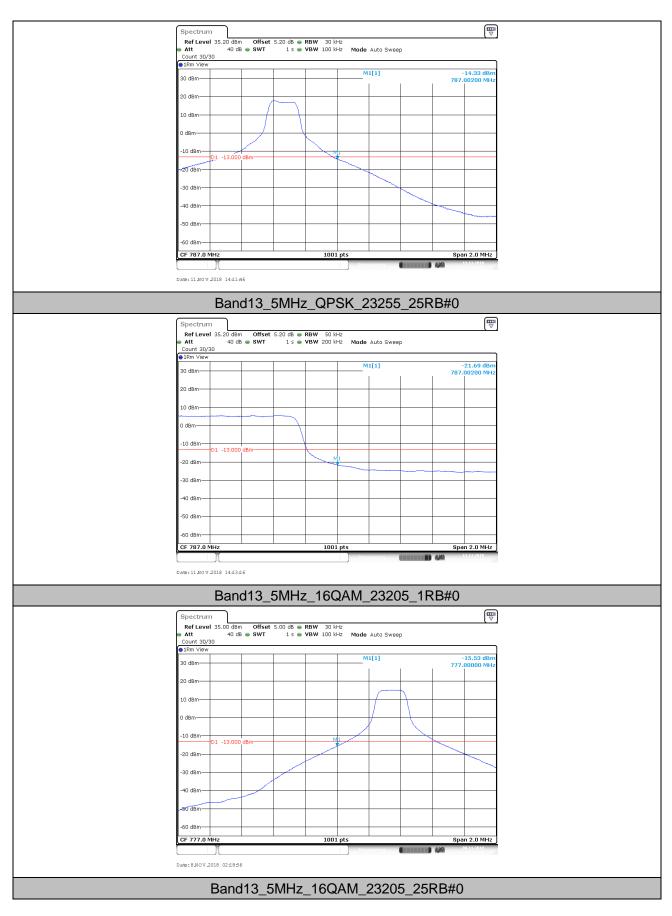
5. Band Edge Compliance

5.1.Test Plots



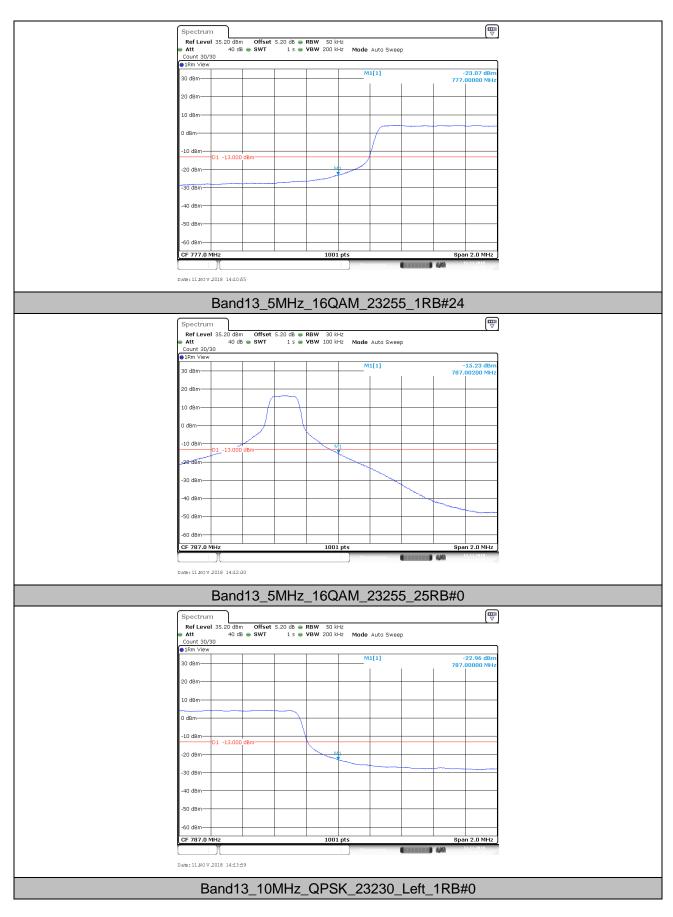


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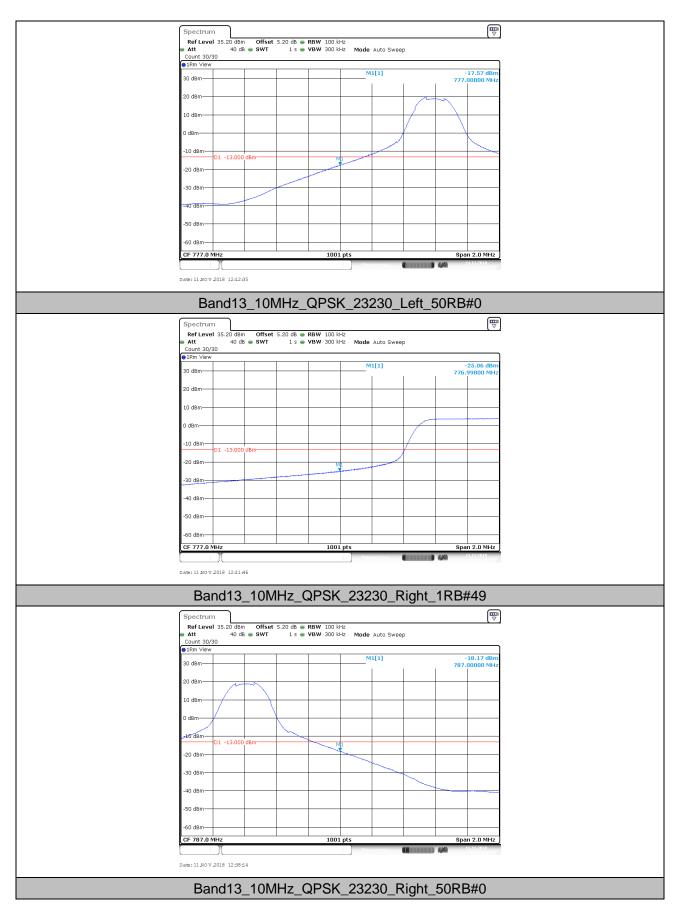


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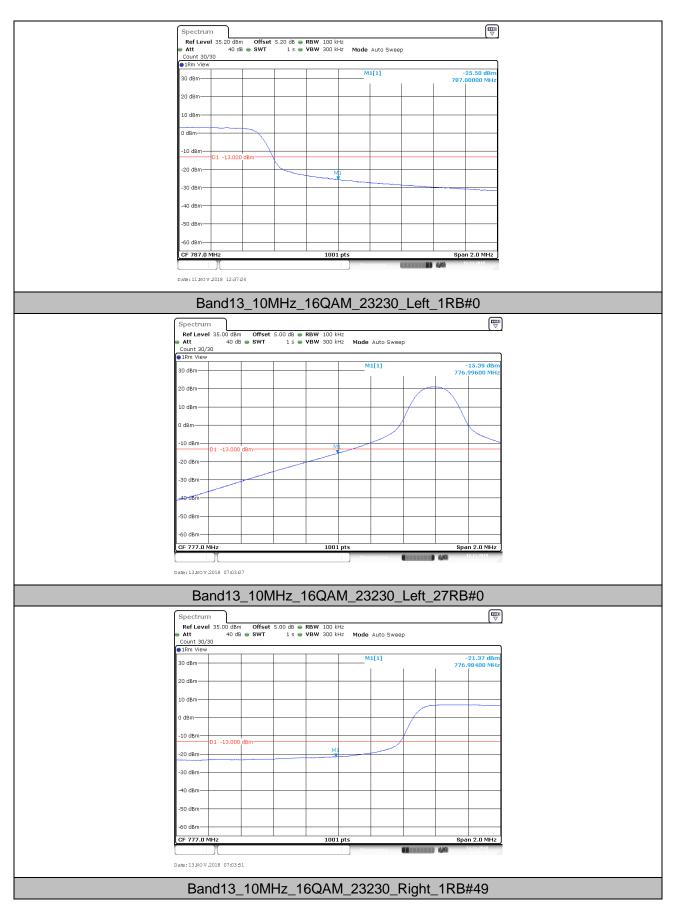


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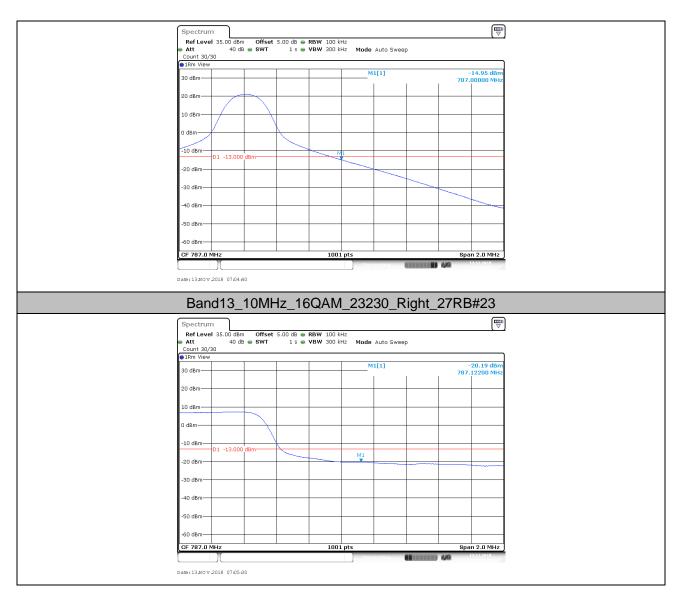


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6. Spurious Emission at Antenna Terminal

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

	Band13_		-SK_23230			
Spectrum 🐳						
Ref Level 35.20	iBm Offset 5.20	dB Mode A	ito Sweep			
●1 View	John Offset 3.20					
30 dbi mit Check LineMsPURIC	US_LINE_ABS_	PASS PASS	M1[1]	7	20.24 dBm 7.610000 MHz	
20 dBm	US_LINE_ADS_	PASS		- · · ·	7.010000 MH2	
10 dBm						
0 dBm						
-10 dBm						
_SPURIOUS_LINE_A	35_					
-30 dBm						
-40 dBm						
-50 dBm				r		
-60 dBm						
Start 30.0 MHz		5901	0 pts		Stop 8.0 GHz	
Spurious Emission Range Low		RBW	Frequency	Power Abs	۵Limit	
30.000 MHz	Range Up 763.000 MHz	100.000 kHz	633.02248 MHz	-55.04 dBm	-42.04 dB	
763.000 MHz 775.000 MHz	775.000 MHz 776.000 MHz	6.250 kHz 100.000 kHz	773.50749 MHz 775.99850 MHz	-62.96 dBm -40.63 dBm	-27.96 dB -27.63 dB	
776.000 MHz	788.000 MHz	100.000 kHz	777.61239 MHz	20.24 dBm	-9.76 dB	
788.000 MHz 793.000 MHz	793.000 MHz 805.000 MHz	100.000 kHz 6.250 kHz	788.02975 MHz 795.22378 MHz	-42.10 dBm -53.60 dBm	-29.10 dB -18.60 dB	
805.000 MHz	1.000 GHz	100.000 kHz	947.50000 MHz	-54.33 dBm	-41.33 dB	
1.000 GHz 1.559 GHz	1.559 GHz 1.610 GHz	1.000 MHz 1.000 MHz	1.47496 GHz 1.60743 GHz	-45.39 dBm -46.29 dBm	-32.39 dB -6.29 dB	
1.610 GHz	8.000 GHz	1.000 MHz	6.97154 GHz	-38.27 dBm	-25.27 dB	
			Measuring	1 ,	11.11.2018	
Date: 11 NO V 2018 1		0MHz_16	QAM_23230)_1RB#0		
		0MHz_160	QAM_23230)_1RB#0		
Spectrum 🔆	Band13_1)_1RB#0		
	Band13_1		QAM_2323()_1RB#0	(\vec{w})	
Spectrum Ref Level 35.20 1 View ag-skynit (therk	Band13_1	de Mode Au Paiss			19.45 dBm	
Spectrum Ref Level 35.20 1 View	Band13_1	dB Mode Au	ito Sweep			
Spectrum Ref Level 3: 20 1 view 30 dsimit theck when per	Band13_1	de Mode Au Paiss	ito Sweep		19.45 dBm	
Spectrum Ref Level 33.20 1 View 30 dsimil theck Line dsputt 20 dsm	Band13_1	de Mode Au Paiss	ito Sweep		19.45 dBm	
Spectrum Ref Level 35.20 1 View 30 definit there, 20 dem 10 dem 0 dem 10 dem 10 dem	Band13_1	de Mode Au Paiss	ito Sweep		19.45 dBm	
Spectrum Ref Level 35.20 1 View 30 dejmit (heck 20 dem 10 dem 0 dem	Band13_1	de Mode Au Paiss	ito Sweep		19.45 dBm	
Spectrum Ref Level 35.20 1 View 30 definit there, 20 dem 10 dem 0 dem 10 dem 10 dem	Band13_1	de Mode Au Paiss	ito Sweep		19.45 dBm	
Spectrum Ref Level 35.20 1 View 30 dbjWil (theck 20 dbm 10 dbm -10 dbm -10 dbm -10 dbm	Band13_1	de Mode Au Paiss	ito Sweep		19.45 dBm	
Spectrum Ref Level 35.20 1 View 30 dsmill (bleck 20 dsm 10 dsm -10 dsm -30 dsm -30 dsm	Band13_1	de Mode Au Paiss	ito Sweep		19.45 dBm	
Spectrum Ref Level 35.20 1 View 30 dbmit thinck 20 dbm 10 dbm -10 dbm -30 dbm -30 dbm -40 dbm -50 dbm -50 dbm	Band13_1	dB Mode Au PASS PASS	M1[1]		19.45 dBm 77.56000 MHz	
Spectrum Ref Level 35.20 1 View 30 dshrill (bleck 20 dsm 10 dsm -10 dsm -30 dsm -30 dsm -50 dsm -50 dsm -50 dsm -50 dsm	Band13_1	de Mode Au Paiss	M1[1]		19.45 dBm	
Spectrum Ref Lavel 35.20 1 View 30 dbm/d thref 20 dbm 10 dbm -10 dbm -50 dbm	Band13_1	dB Mode Au PASS PASS	M1[1]	7:	19.45 dBm 77.56000 MHz	
Spectrum Ref Lavel 35.20 1 View 30 delimit dhack. 20 dem 10 dem -10 dem -30 dem -30 dem -50	Band13_1 IBm Offset 5.20 US LINE_ABS SS_ SS_ SS_ SS_ SS_ SS_ SS_ SS_ SS_ S	dB Mode Au PASS PASS S9011 RBW 100.000 kHz	M1[1]	7: 	19,45 dBm 77,56000 MHz 8100 MHz 5100 8.0 GHz -41.68 dB	
Spectrum Ref Level 35.20 1 View 30 dbmil three. 20 dbm 10 dbm -10 dbm -10 dbm -30 dbm -40 dbm -40 dbm -50 db	Band13_1	dB Mode Au PASS PASS S901/ 88W 100.000 kHz 6.250 KHz	M1[1]	77	19.45 dBm 77.560000 MHz 8 top 8.0 GHz ALimit -41.68 dB -26.73 dB	
Spectrum Ref Level 35.20 1 View 30 dbWill therk 20 dbm 10 dbm -10 db	Band13_1 (bm offset 5.20 US INE_ABS S Range Up 763.000 MHz 775.000 MHz 776.000 MHz 776.000 MHz 776.000 MHz	dB Mode Au PASS PASS S9010 S9010 RBW 100.000 kHz 100.000 kHz	Ito Sweep M1[1] M1[1] D pts Frequency 409,68082 MHz 770.01998 MHz 777.59051 MHz 777.59051 MHz	7 Power Abs -54.69 dBm -61.73 dBm -61.73 dBm -61.73 dBm -61.73 dBm -61.73 dBm	19.45 dBm 77.500000 MHz 8 top 8.0 GHz ALImit -41.68 dB -26.73 dB -26.73 dB -26.73 dB -28.00 dB -10.55 dB	
Spectrum Ref Lavel 35.20 1 View 30 dbind thread 20 dbm 10 dbm -10 dbm -10 dbm -0 dbm -30 dbm -50	Band13_1 Image:	dB Mode Au PASS PASS S901 RBW 100.000 kHz 6.250 kHz	M1[1]	7: 	19,45 dBm 77,560000 MHz 50000 MHz 5000	
Spectrum Ref Lavel 35.20 1 View 30 delimit dhack 20 dem 10 dem -10 dem -10 dem -30 dem -30 dem -50 dem -5	Band13_1 Immodfset 5.20 Immodfset 5.	dB Mode Au PABS PABS PASS S901 RBW 100.000 kHz 6.250 kHz 100.000 kHz 100 kHz 100.000 kH	M1[1] M1[1] 0 pts Frequency 409.6002 MHz 775.902 MHz 775.903 MHz 775.50444 MHz 900.74675 MHz 900.74675 MHz	7: 	19,45 dBm 77,550000 MHz 50000 MHz 5000	
Spectrum Ref Level 35.20 I View 30 dbWait Check 30 dbWait Check 20 dbm 10 dbm 10 dbm 10 dbm 10 dbm -10 dbm 90 cbm -30 dbm -30 dbm -40 dbm -30 dbm -50 dbm -30 dbm -50 dbm -30.00 MHz Start 30.0 MHZ 775.000 MHz 775.000 MHz 776.000 MHz 778.000 MHz 778.000 MHz 905.000 MHz 780.000 MHz 905.000 MHz 10.00 GHz	Band13_1 (Bm offset 5.20 US INE_ABS US INE_ABS (BR ON CONTROL OF CONTROL ON C	dB Mode Au PASS PASS PASS S901 S901 RBW 100.000 kHz 6.250 kHz 100.000 kHz 100.0000 kHz 100.000 kHz 100.000 kHz 100.0000 kHz 100.000 kH	M1[1] M1	Power Abs 	19.45 dBm 77.500000 MHz 500000 MHz 51.50000 MHz 51.50000 MHz 51.6000 MHz 51.6000 MHz 51.6000 MHz 526.73 dB -26.73 dB -26.73 dB -26.73 dB -26.73 dB -26.73 dB -26.73 dB -27.27 dB -10.55 dB -10.55 dB -10.55 dB -11.55 dB -11.53 dB -11.53 dB -11.53 dB -11.55 dB -11.53 dB -11.53 dB -11.55 dB -11.53 dB -11.55 dB -11.53 dB -11.55 dB -11.53 dB -11.55 dB	
Spectrum Ref Lavel 35.20 1 View 30 delimit dhack 20 dem 10 dem -10 dem -10 dem -30 dem -30 dem -50 dem -5	Band13_1 Immodfset 5.20 Immodfset 5.	dB Mode Au PABS PABS PASS S901 RBW 100.000 kHz 6.250 kHz 100.000 kHz 100 kHz 100.000 kH	M1[1] M1[1] 0 pts Frequency 409.6002 MHz 775.902 MHz 775.903 MHz 775.50444 MHz 900.74675 MHz 900.74675 MHz	7: 	19,45 dBm 77,550000 MHz 50000 MHz 5000	
Spectrum Ref Lavel 35.20 1 View 30 delimit dhack 20 dem 10 dem -10 dem -10 dem -50	Band13_1 Immodified S.20 Immod	dB Mode Au PASS PASS PASS S901 S901 RBW 100.000 KHz 6.250 KHz 100.000 KHz 100 KHz 100.000 KHz 100.000 KHz 100 KHz 100 KHz 100 KHz 100 KHz	M1[1] M1[1] M1[1] M1[1] M1[1] M2	Power Abs -54-68 dBm -61.73 dBm -41.00 dBm -44.27 dBm -53.30 dBm -44.23 dBm -44.23 dBm	19,45 dBm 77,550000 MHz 550000 MHz 5500 MHZ 500 MHZ	

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7. Field Strength of Spurious Radiation

7.1.Test BAND = LTE BAND 13

7.1.1. Test Mode =LTE/TM1 10MHz

7.1.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.673333	-81.67	-13.00	68.67	Vertical
357.086667	-73.08	-13.00	60.08	Vertical
1555.000000	-63.12	-13.00	50.12	Vertical
1595.500000	-65.76	-40.00	25.76	Vertical
3730.762500	-67.32	-13.00	54.32	Vertical
6256.012500	-63.79	-13.00	50.79	Vertical
62.666667	-77.51	-13.00	64.51	Horizontal
178.400000	-73.27	-13.00	60.27	Horizontal
1555.000000	-63.13	-13.00	50.13	Horizontal
1595.500000	-65.82	-40.00	25.82	Horizontal
2578.000000	-57.82	-13.00	44.82	Horizontal
6256.012500	-63.72	-13.00	50.72	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.

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8. Frequency Stability

S

8.1. Frequency Vs Voltage

	Voltage												
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict			
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-15.44	-0.01974	±2.5	PASS			
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-13.13	-0.01679	±2.5	PASS			
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-15.75	-0.02014	±2.5	PASS			
Band13	10MHz	16QAM	23230	27RB#0	VN	NT	-14.43	-0.01845	±2.5	PASS			
Band13	10MHz	16QAM	23230	27RB#0	VL	NT	-15.29	-0.01955	±2.5	PASS			
Band13	10MHz	16QAM	23230	27RB#0	VH	NT	-14.92	-0.01908	±2.5	PASS			

8.2. Frequency Vs Temperature

				Ten	nperature				-	
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-16.87	-0.02157	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-14.00	-0.0179	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-15.68	-0.02005	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-15.15	-0.01937	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-11.19	-0.01431	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-11.57	-0.0148	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-14.69	-0.01879	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-15.03	-0.01922	±2.5	PASS
Band13	10MHz	16QAM	23230	27RB#0	NV	-30	-13.85	-0.01771	±2.5	PASS
Band13	10MHz	16QAM	23230	27RB#0	NV	-20	-11.73	-0.015	±2.5	PASS
Band13	10MHz	16QAM	23230	27RB#0	NV	0	-14.59	-0.01866	±2.5	PASS
Band13	10MHz	16QAM	23230	27RB#0	NV	10	-15.42	-0.01972	±2.5	PASS
Band13	10MHz	16QAM	23230	27RB#0	NV	20	-17.07	-0.02183	±2.5	PASS
Band13	10MHz	16QAM	23230	27RB#0	NV	30	-13.82	-0.01767	±2.5	PASS
Band13	10MHz	16QAM	23230	27RB#0	NV	40	-16.11	-0.0206	±2.5	PASS
Band13	10MHz	16QAM	23230	27RB#0	NV	50	-15.25	-0.0195	±2.5	PASS

The End