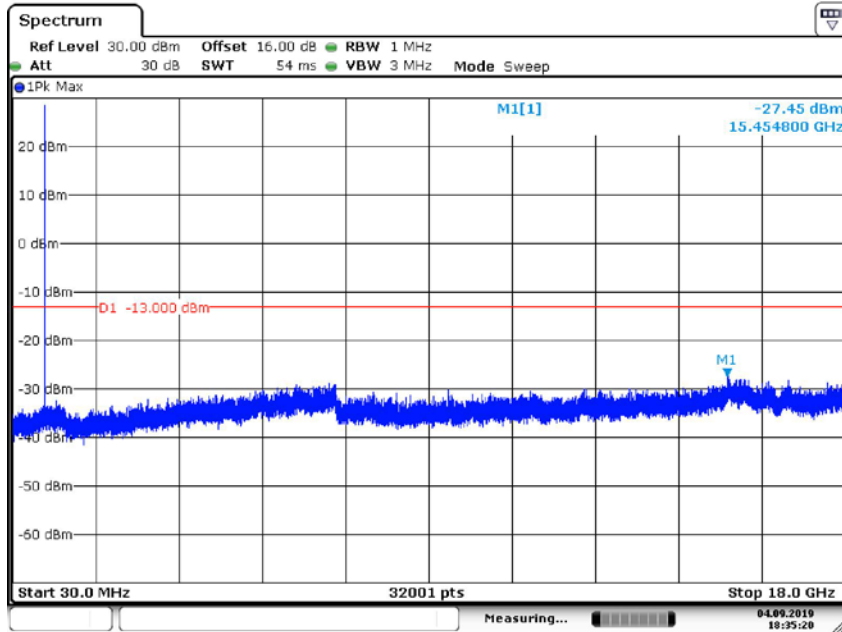


LTE Band 12: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

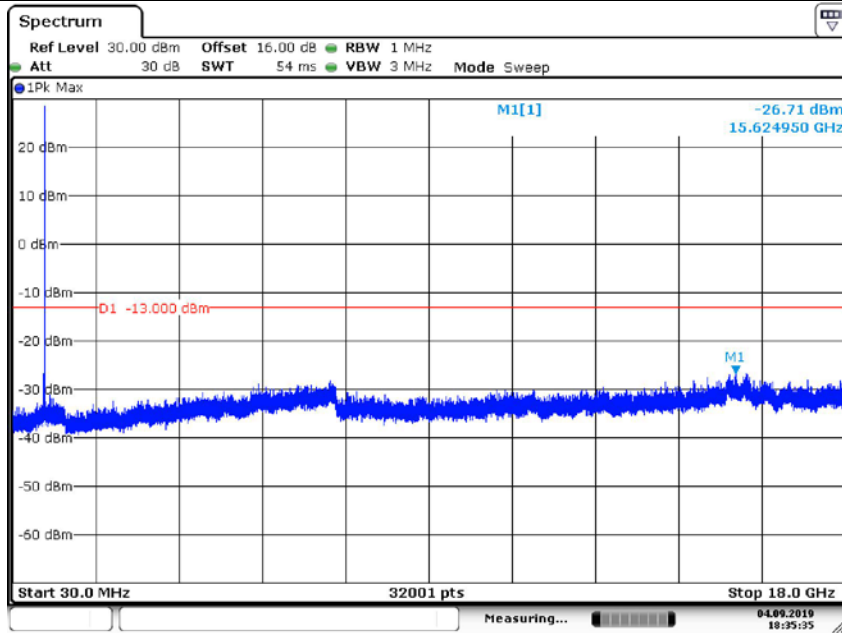
Test BW: 3MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:35:20

16QAM

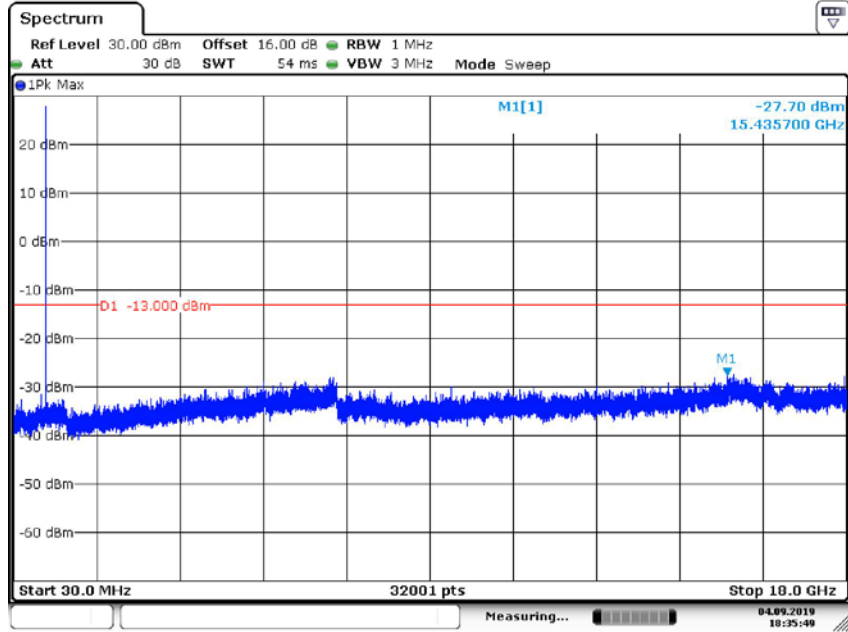


Date: 4.SEP.2019 18:35:35

LTE Band 12: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

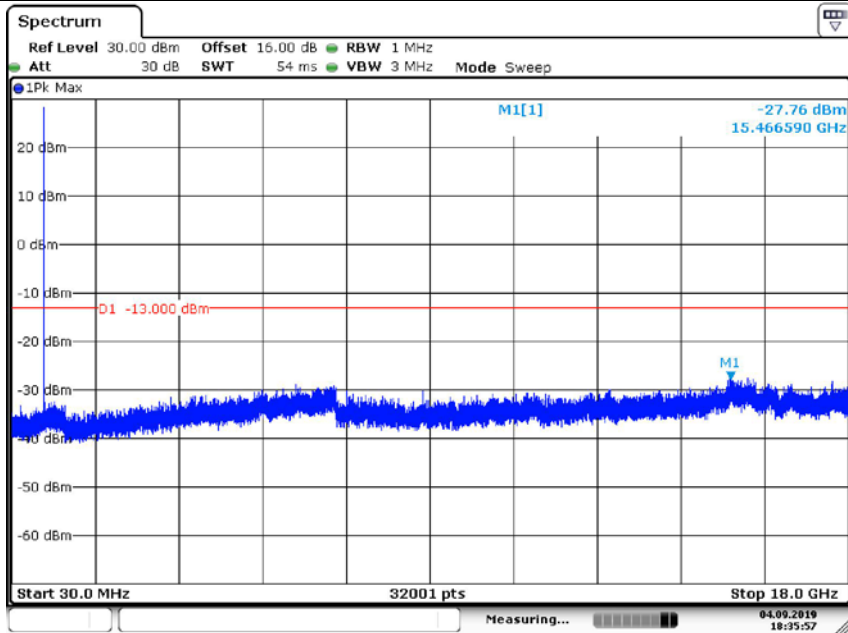
Test BW: 5MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:35:49

16QAM

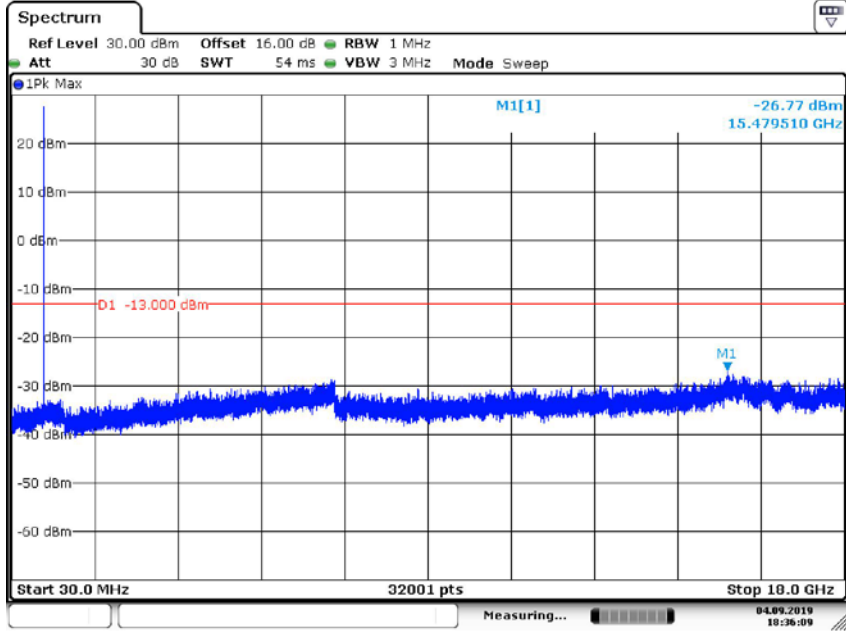


Date: 4.SEP.2019 18:35:57

LTE Band 12: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

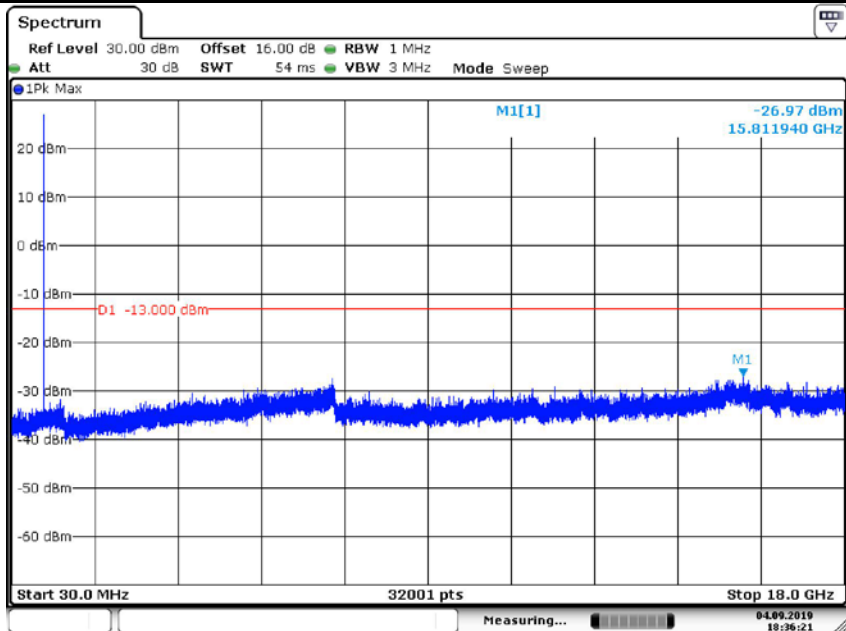
Test BW: 10MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:36:10

16QAM

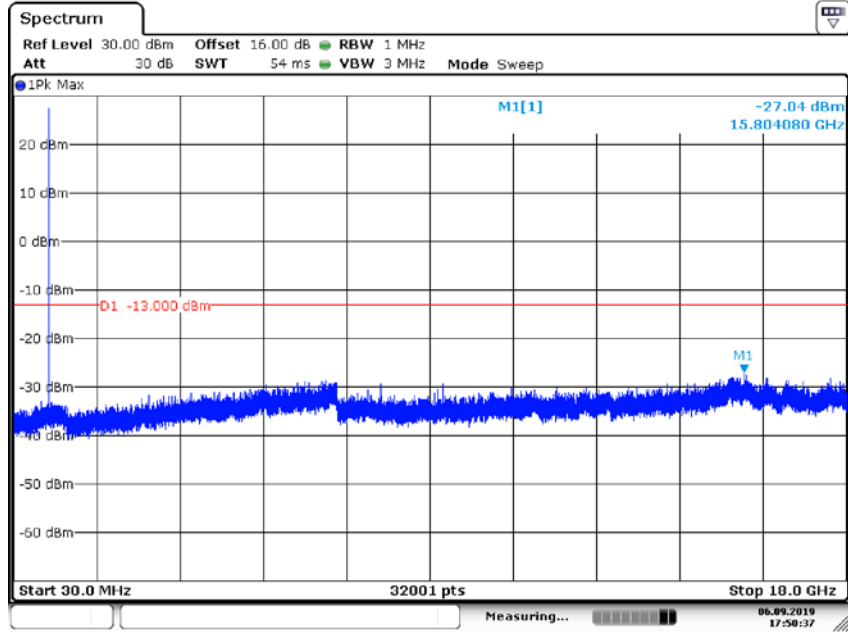


Date: 4.SEP.2019 18:36:21

LTE Band 13: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

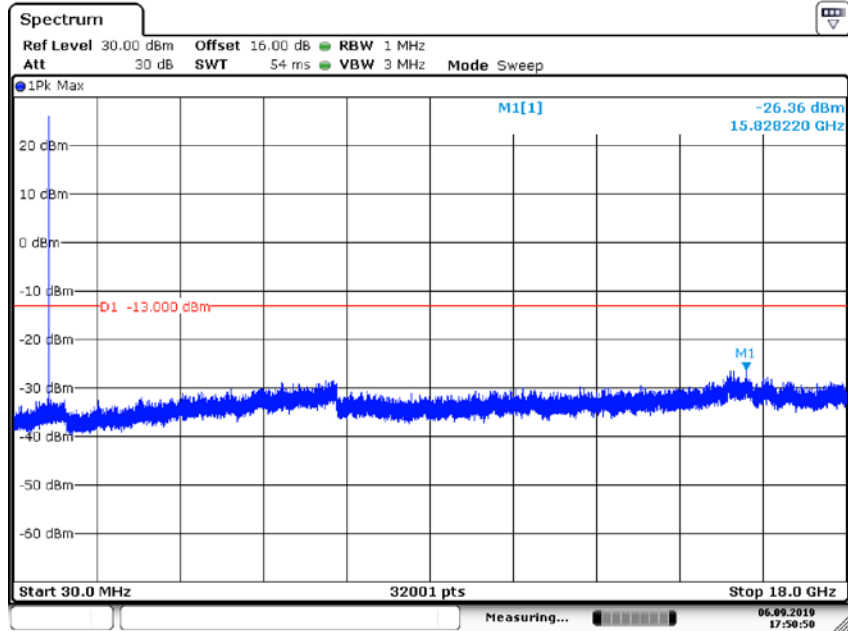
Test BW: 5MHz - Middle Channel - RB1#0

QPSK



Date: 6.SEP.2019 17:50:36

16QAM

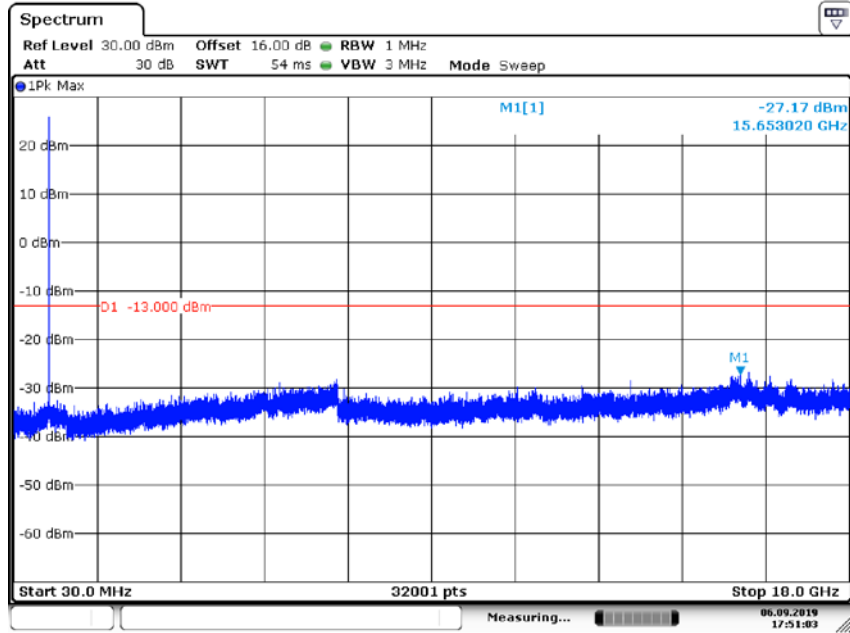


Date: 6.SEP.2019 17:50:50

LTE Band 13: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

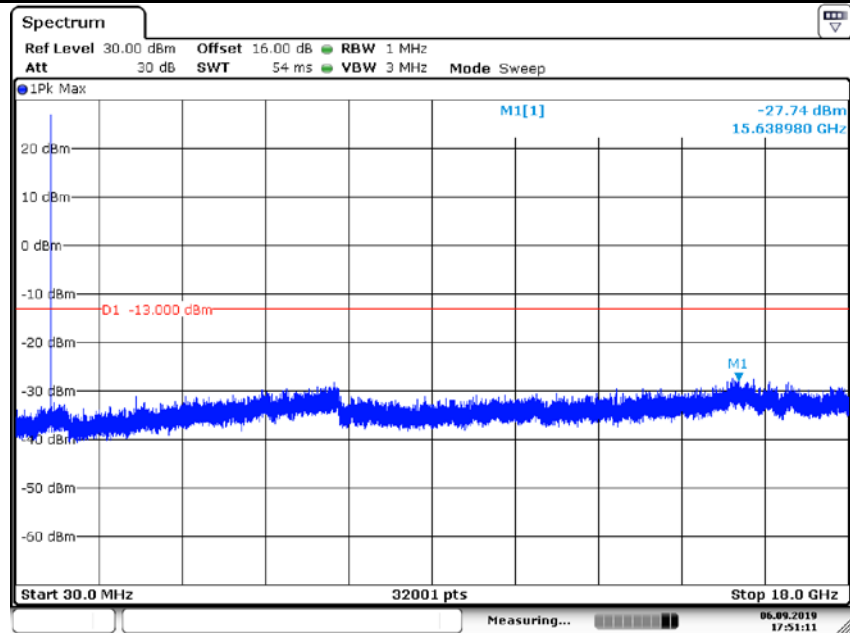
Test BW: 10MHz - Middle Channel - RB1#0

QPSK



Date: 6.SEP.2019 17:51:03

16QAM

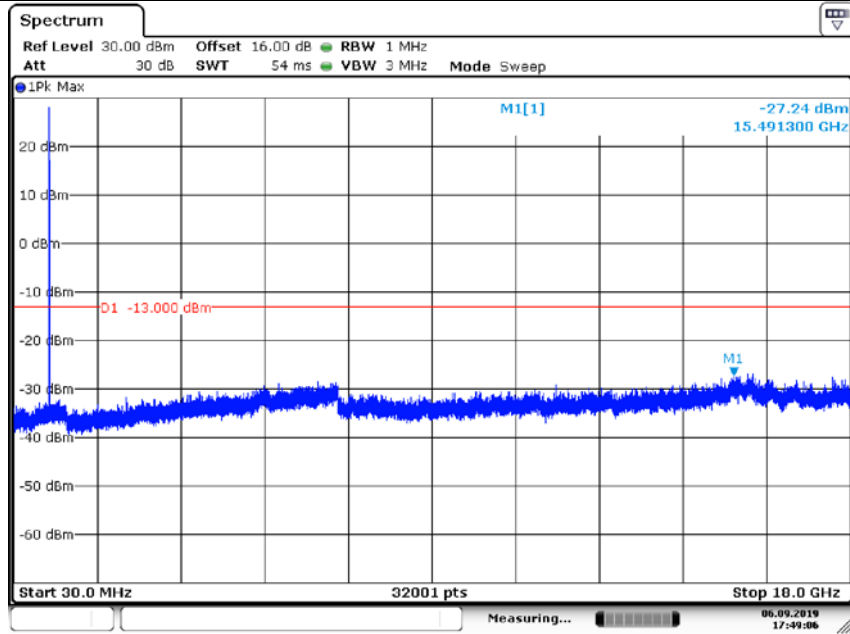


Date: 6.SEP.2019 17:51:11

LTE Band 14: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

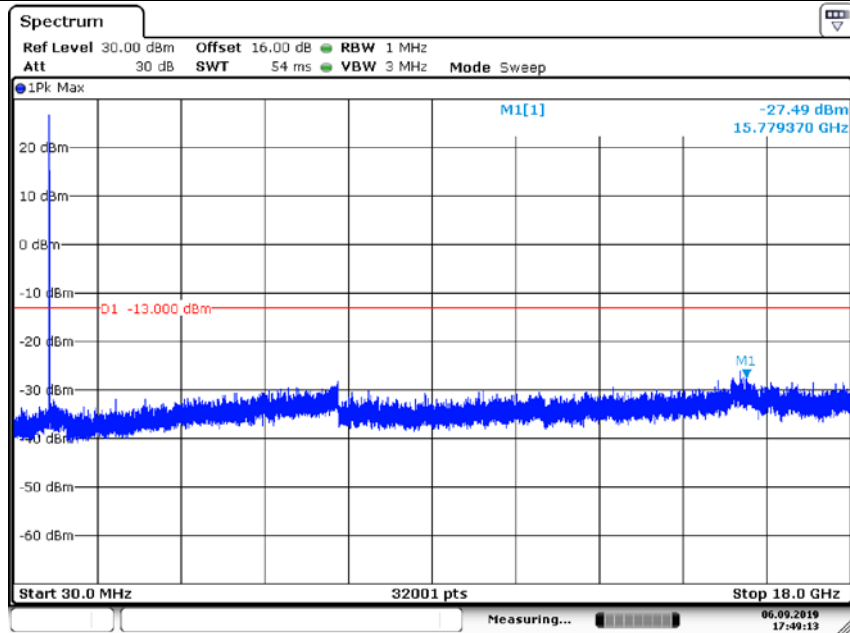
Test BW: 5MHz - Middle Channel - RB1#0

QPSK



Date: 6.SEP.2019 17:49:06

16QAM

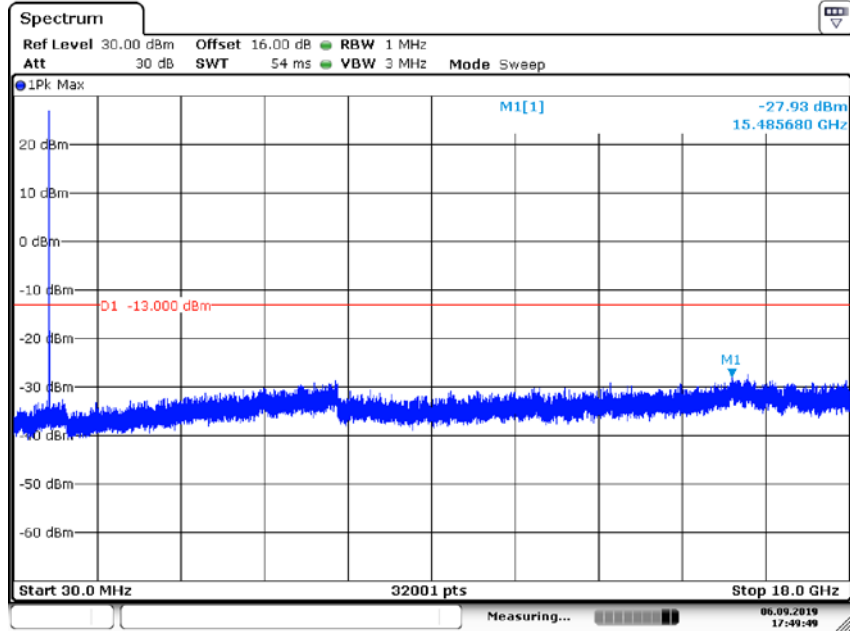


Date: 6.SEP.2019 17:49:14

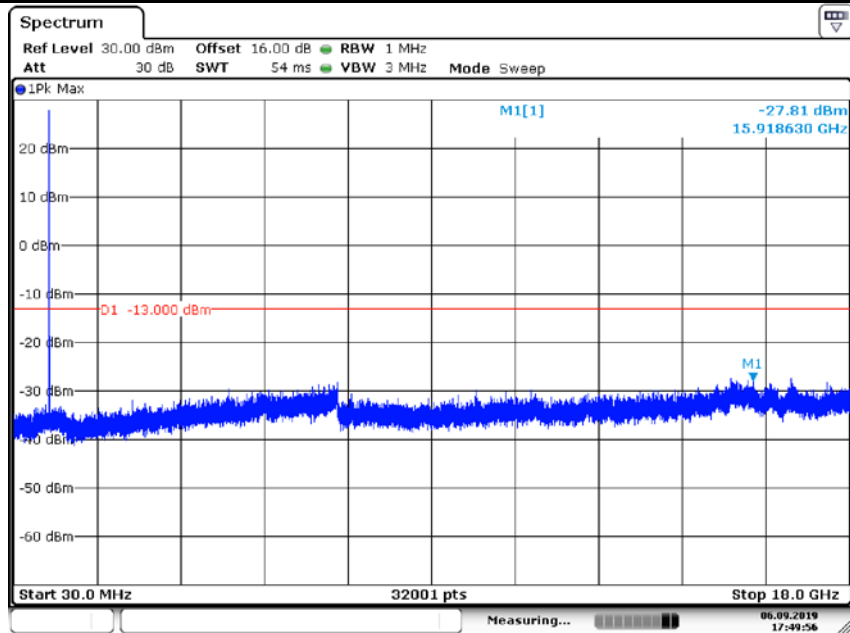
LTE Band 14: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

Test BW: 10MHz - Middle Channel - RB1#0

QPSK



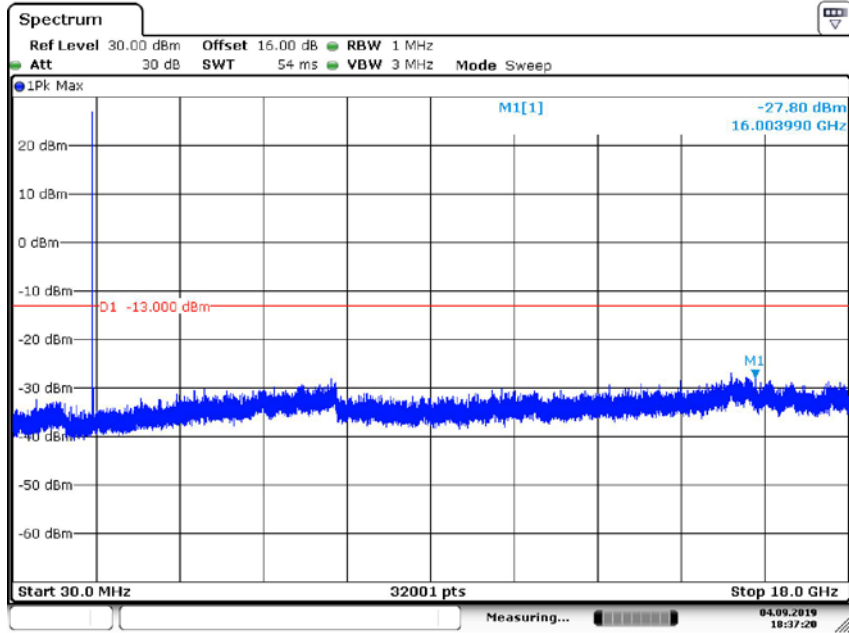
16QAM



**LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS**

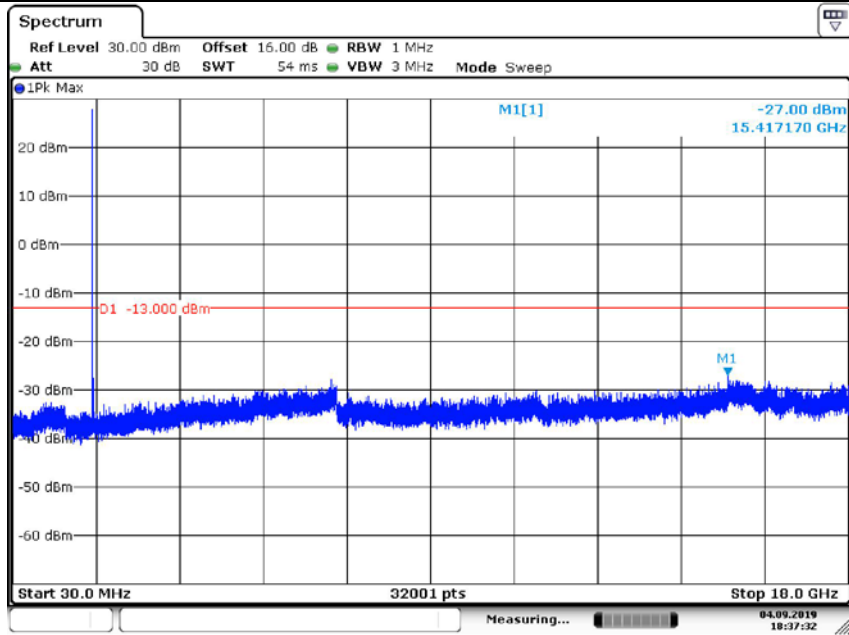
Test BW: 1.4MHz – Middle Channel - RB1#0

**QPSK**



Date: 4.SEP.2019 18:37:20

**16QAM**



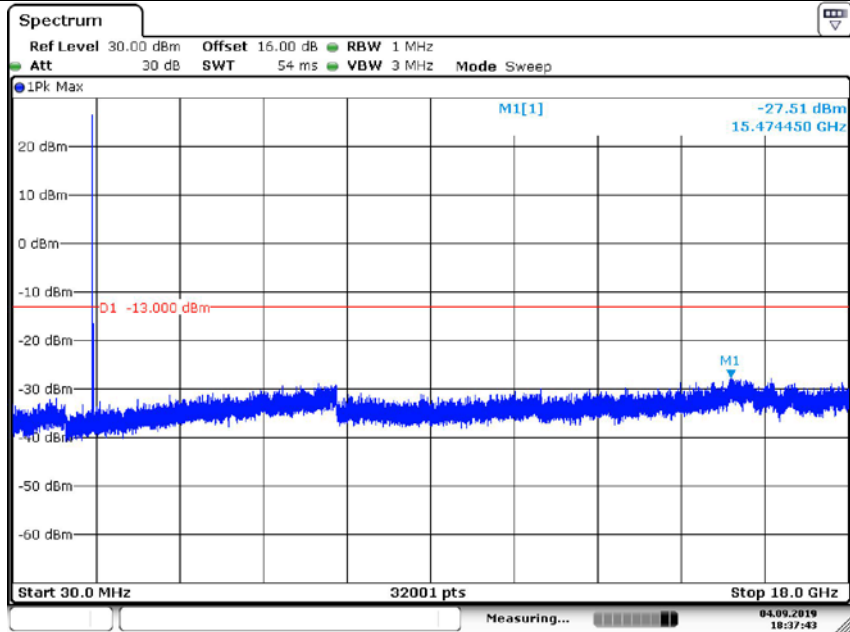
Date: 4.SEP.2019 18:37:31



LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

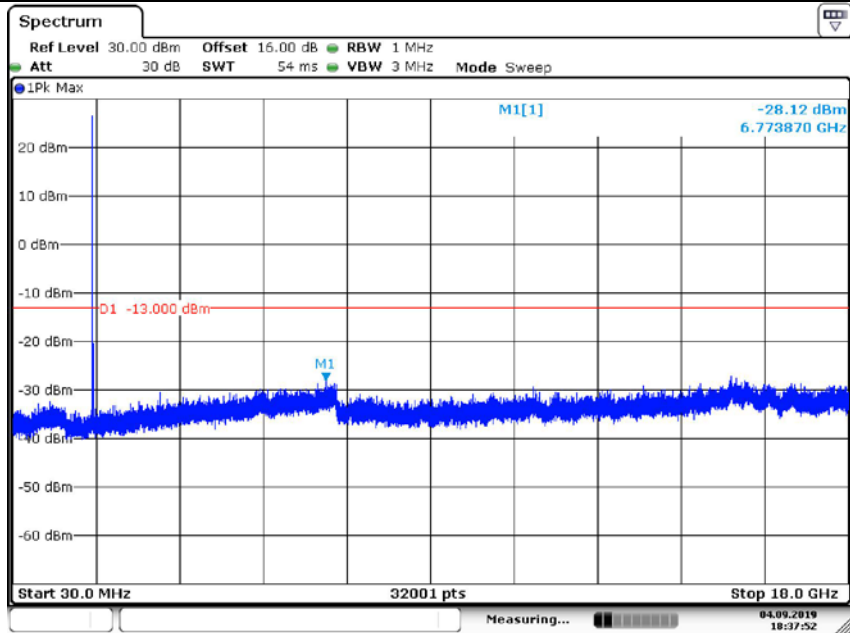
Test BW: 3MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:37:43

16QAM

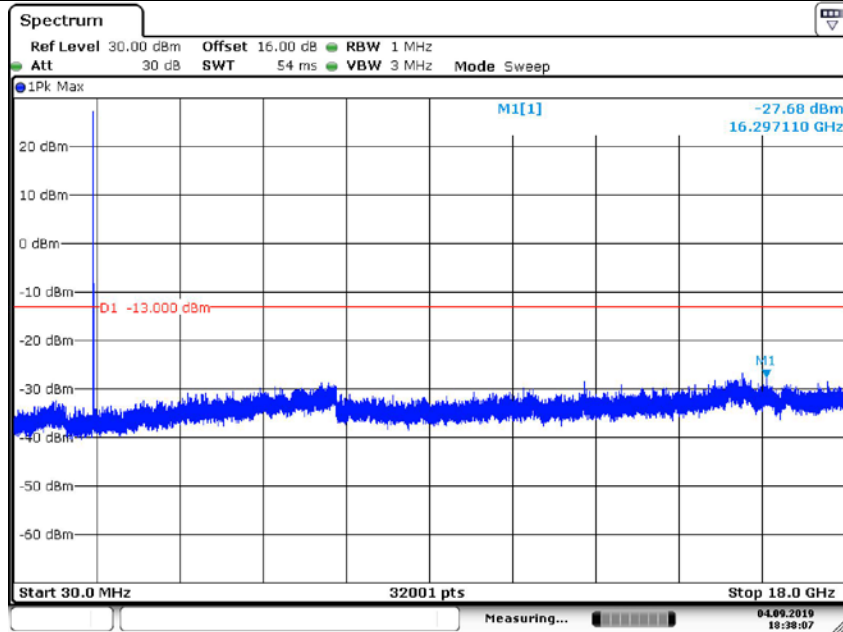


Date: 4.SEP.2019 18:37:52

LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

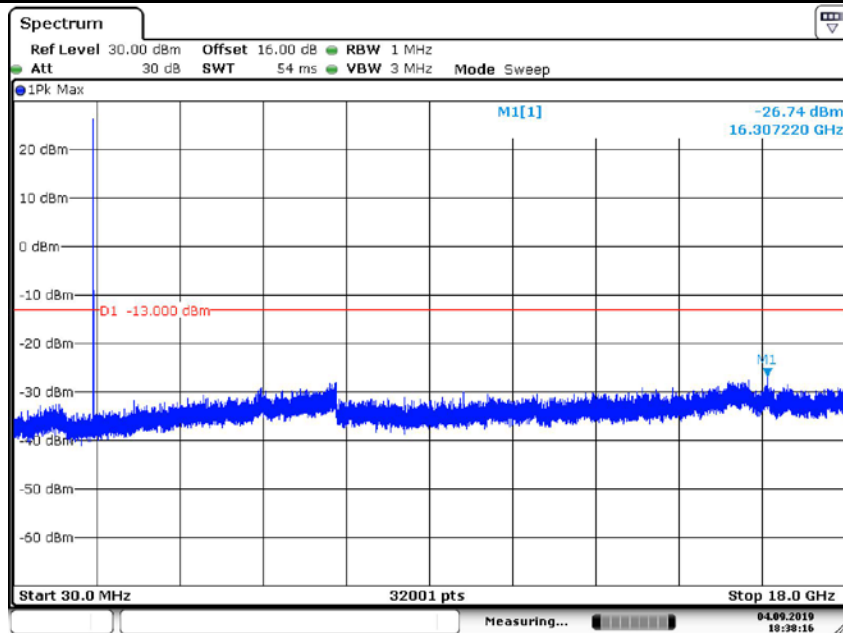
Test BW: 5MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:38:07

16QAM

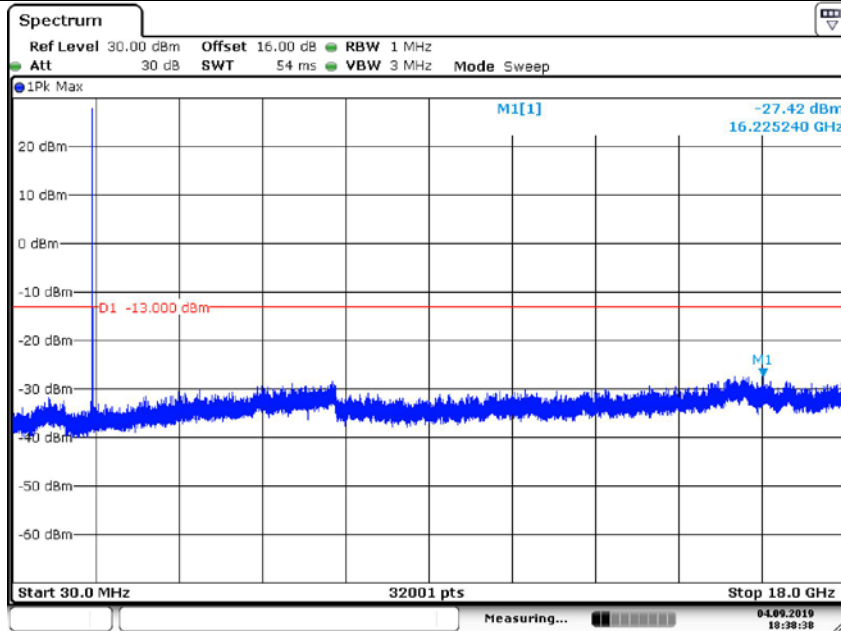


Date: 4.SEP.2019 18:38:16

LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

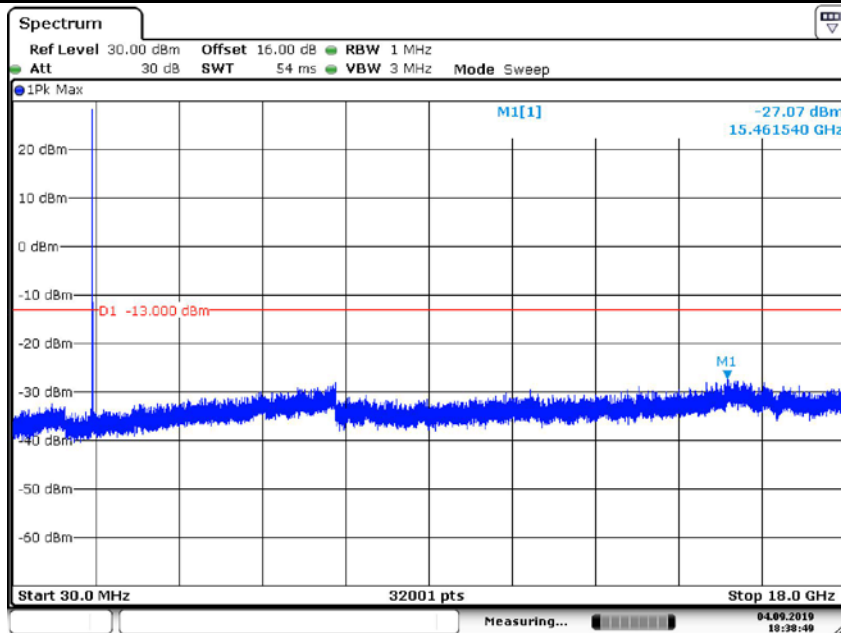
Test BW: 10MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:38:38

16QAM

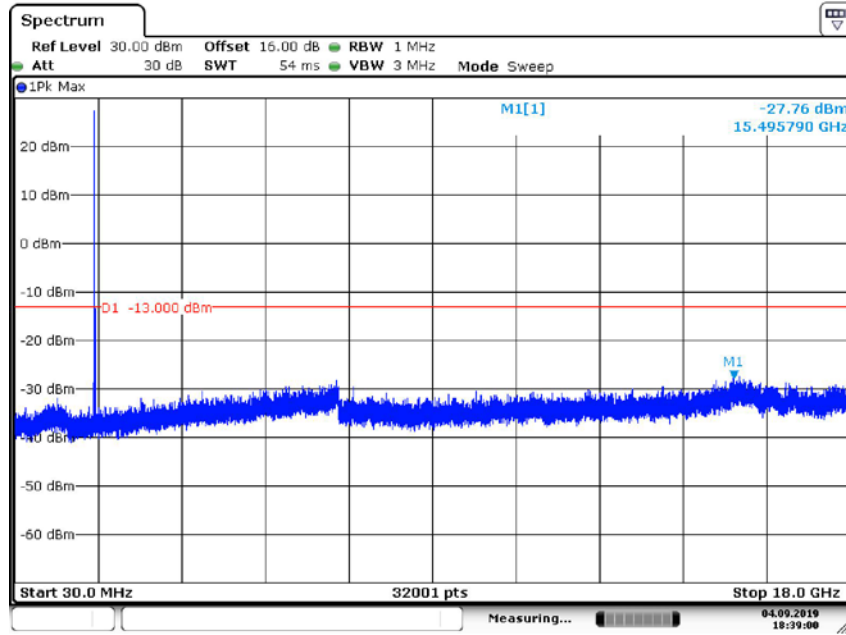


Date: 4.SEP.2019 18:38:49

LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

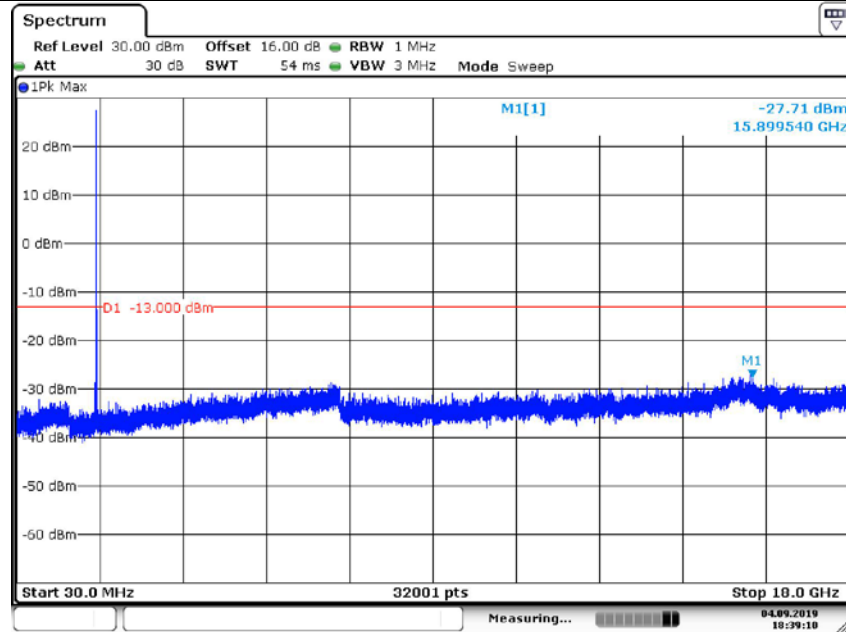
Test BW: 15MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:38:59

16QAM

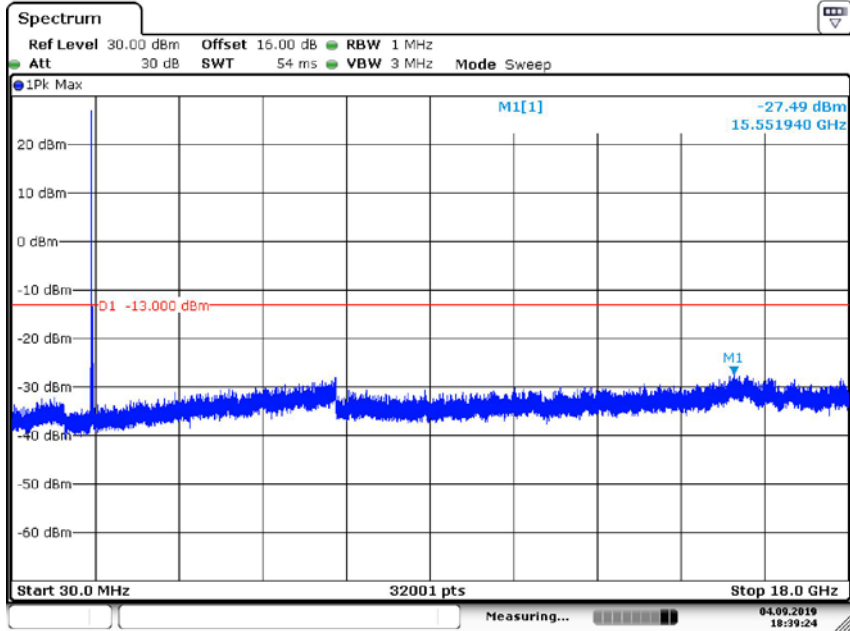


Date: 4.SEP.2019 18:39:10

LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

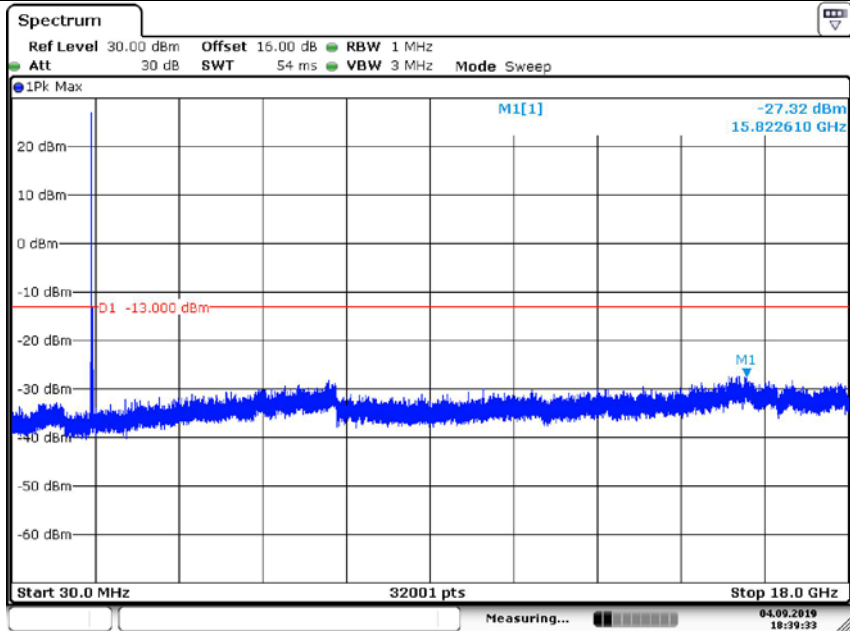
Test BW: 20MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:39:24

16QAM

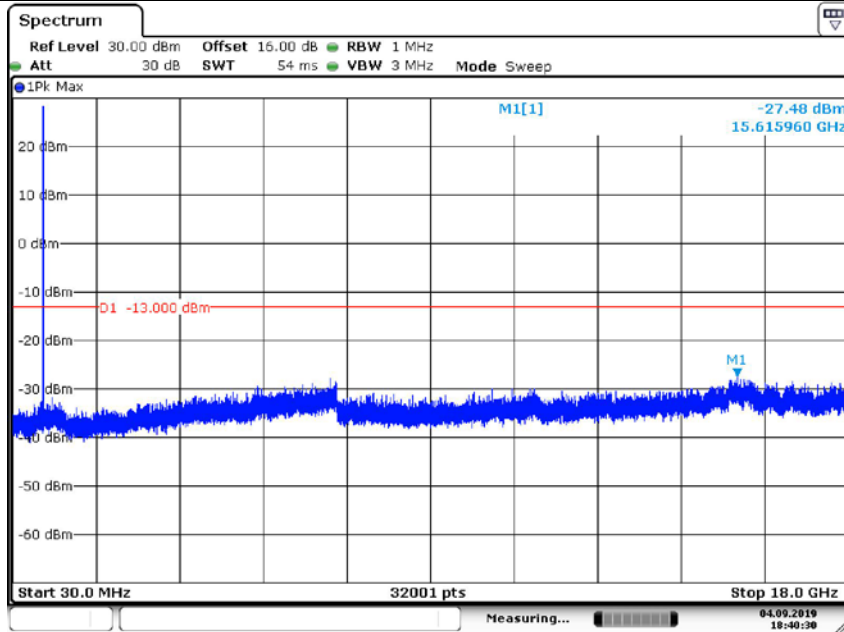


Date: 4.SEP.2019 18:39:33

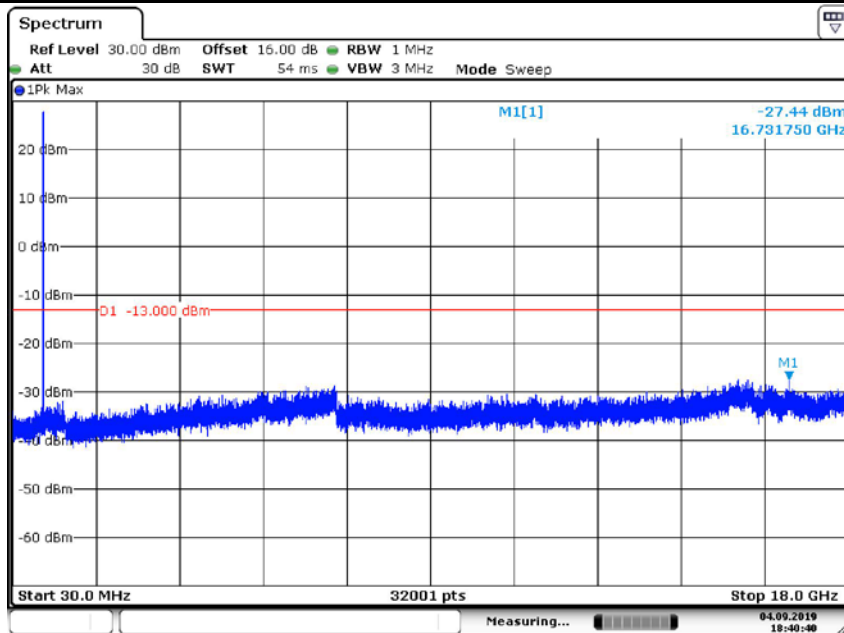
LTE Band 71: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

Test BW: 5MHz - Middle Channel - RB1#0

QPSK



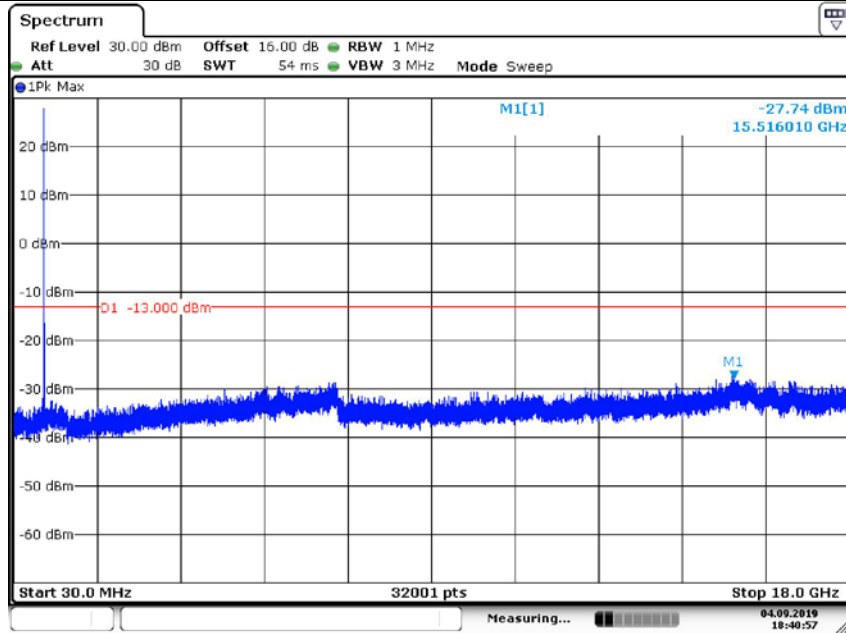
16QAM



LTE Band 71: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

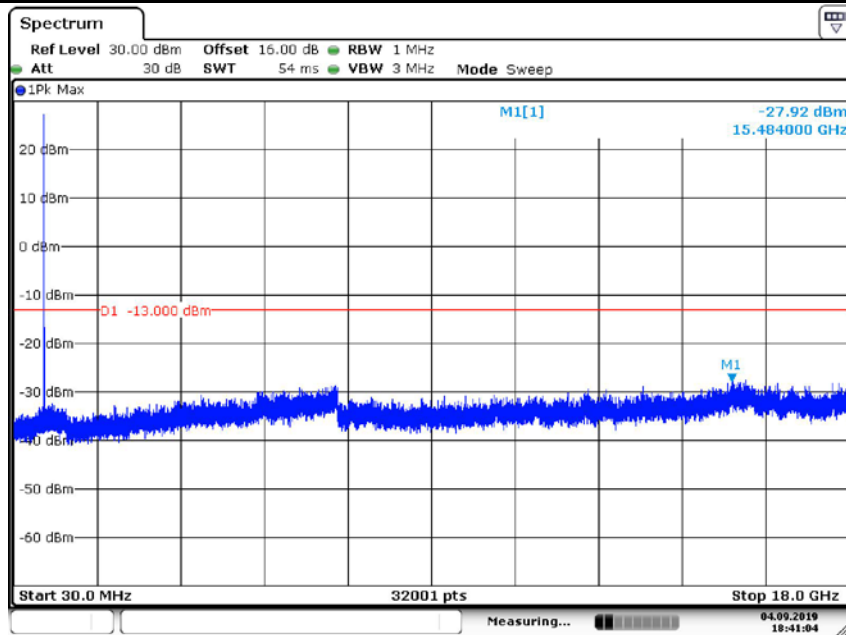
Test BW: 10MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:40:57

16QAM

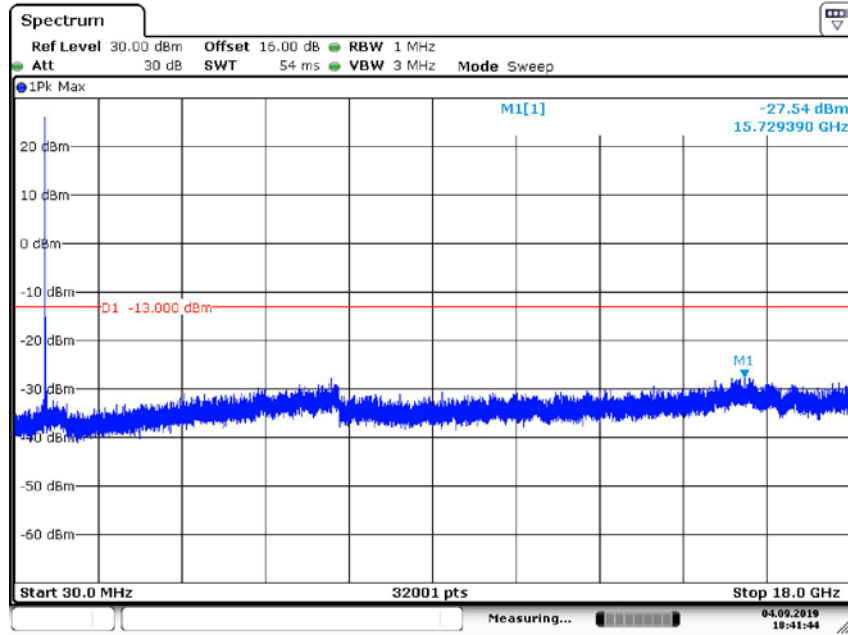


Date: 4.SEP.2019 18:41:05

LTE Band 71: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

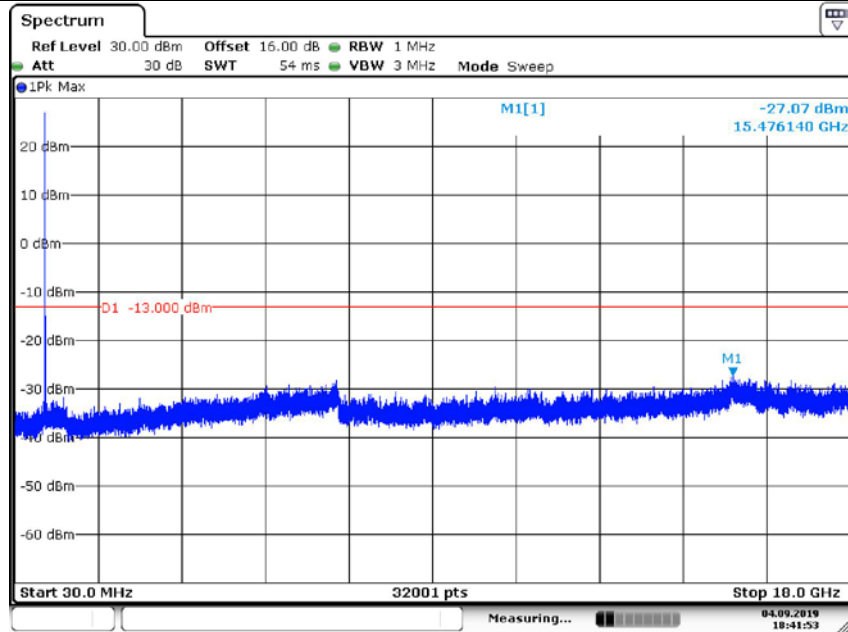
Test BW: 15MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:41:44

16QAM



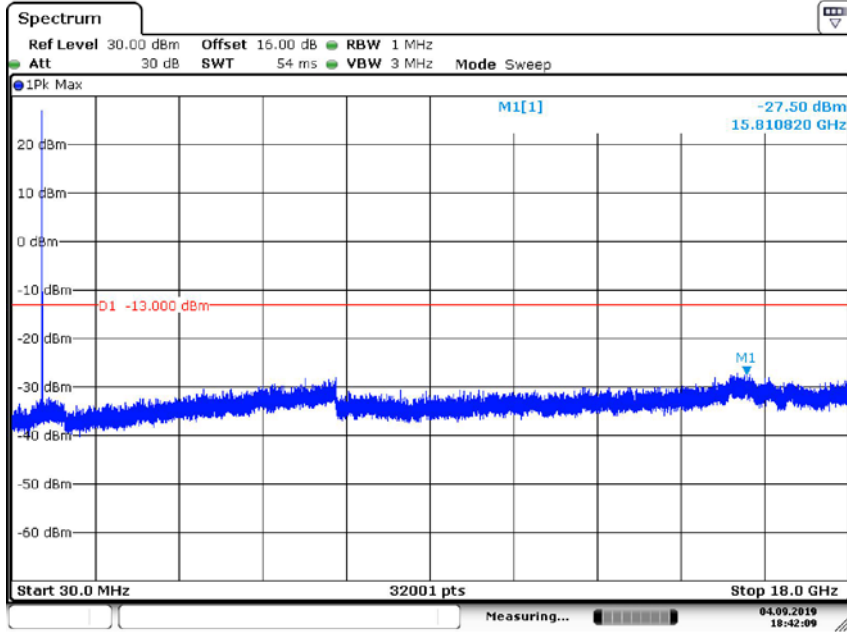
Date: 4.SEP.2019 18:41:53



LTE Band 71: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

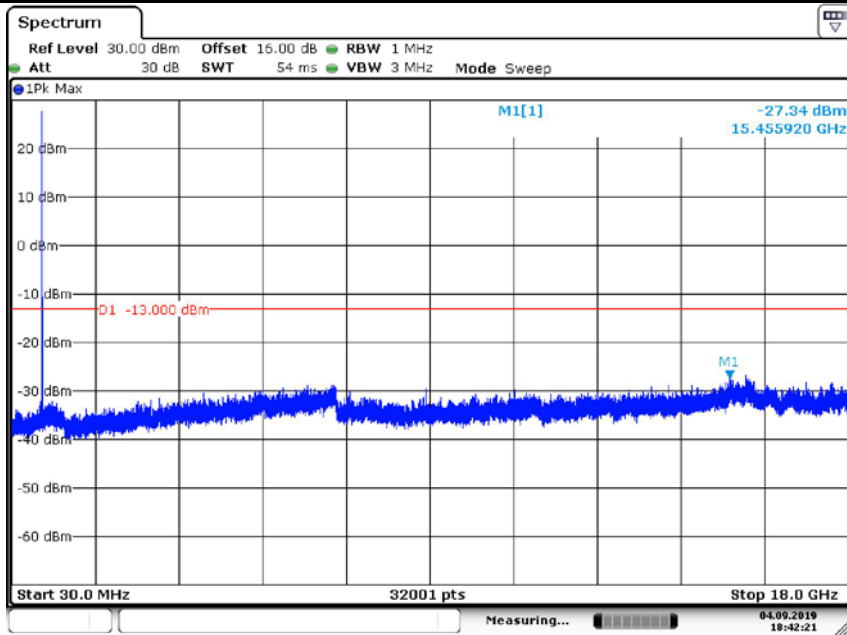
Test BW: 20MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:42:09

16QAM



Date: 4.SEP.2019 18:42:20

## APPENDIX G: TEST DATA FOR FIELD STRENGTH OF SPURIOUS RADIATION

All modes have been tested, and the worst result recorded was report as below

### For LTE BAND 2 link

- Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND2		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
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Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

- Spurious Emission Above 30MHz (30MHz to 10<sup>th</sup> harmonics)

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND2		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
286.41	H	1.4 MHz	RB1#0	-36.21	-13	-23.21	Pass
3760.00	H	1.4 MHz	RB1#0	-34.04	-13	-21.04	Pass
5640.00	H	1.4 MHz	RB1#0	-33.15	-13	-20.15	Pass
7520.00	H	1.4 MHz	RB1#0	-40.38	-13	-27.38	Pass
286.41	V	1.4 MHz	RB1#0	-40.13	-13	-27.13	Pass
3760.00	V	1.4 MHz	RB1#0	-30.39	-13	-17.39	Pass
5640.00	V	1.4 MHz	RB1#0	-36.04	-13	-23.04	Pass
7520.00	V	1.4 MHz	RB1#0	-39.58	-13	-26.58	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND2		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
273.70	H	3 MHz	RB1#0	-43.23	-13	-30.23	Pass
3760.00	H	3 MHz	RB1#0	-33.71	-13	-20.71	Pass
5640.00	H	3 MHz	RB1#0	-34.08	-13	-21.08	Pass
7520.00	H	3 MHz	RB1#0	-40.22	-13	-27.22	Pass
273.70	V	3 MHz	RB1#0	-36.54	-13	-23.54	Pass
3760.00	V	3 MHz	RB1#0	-27.93	-13	-14.93	Pass
5640.00	V	3 MHz	RB1#0	-36.14	-13	-23.14	Pass
7520.00	V	3 MHz	RB1#0	-41.18	-13	-28.18	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND2		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
606.75	H	5 MHz	RB1#0	-38.61	-13	-25.61	Pass
3760.00	H	5 MHz	RB1#0	-33.19	-13	-20.19	Pass
5640.00	H	5 MHz	RB1#0	-36.24	-13	-23.24	Pass
7520.00	H	5 MHz	RB1#0	-38.88	-13	-25.88	Pass
606.75	V	5 MHz	RB1#0	-37.26	-13	-24.26	Pass
3760.00	V	5 MHz	RB1#0	-29.92	-13	-16.92	Pass
5640.00	V	5 MHz	RB1#0	-34.95	-13	-21.95	Pass
7520.00	V	5 MHz	RB1#0	-41.27	-13	-28.27	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND2		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
451.69	H	10 MHz	RB1#0	-42.29	-13	-29.29	Pass
3760.00	H	10 MHz	RB1#0	-34.23	-13	-21.23	Pass
5640.00	H	10 MHz	RB1#0	-35.32	-13	-22.32	Pass
7520.00	H	10 MHz	RB1#0	-39.57	-13	-26.57	Pass
451.69	V	10 MHz	RB1#0	-40.93	-13	-27.93	Pass
3760.00	V	10 MHz	RB1#0	-32.47	-13	-19.47	Pass
5640.00	V	10 MHz	RB1#0	-34.17	-13	-21.17	Pass
7520.00	V	10 MHz	RB1#0	-37.59	-13	-24.59	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND2		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
472.72	H	15 MHz	RB1#0	-43.01	-13	-30.01	Pass
3760.00	H	15 MHz	RB1#0	-30.19	-13	-17.19	Pass
5640.00	H	15 MHz	RB1#0	-33.23	-13	-20.23	Pass
7520.00	H	15 MHz	RB1#0	-41.59	-13	-28.59	Pass
472.72	V	15 MHz	RB1#0	-35.90	-13	-22.9	Pass
3760.00	V	15 MHz	RB1#0	-32.37	-13	-19.37	Pass
5640.00	V	15 MHz	RB1#0	-34.07	-13	-21.07	Pass
7520.00	V	15 MHz	RB1#0	-37.83	-13	-24.83	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND2		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
259.05	H	20 MHz	RB1#0	-42.19	-13	-29.19	Pass
3760.00	H	20 MHz	RB1#0	-29.93	-13	-16.93	Pass
5640.00	H	20 MHz	RB1#0	-36.91	-13	-23.91	Pass
7520.00	H	20 MHz	RB1#0	-38.46	-13	-25.46	Pass
259.05	V	20 MHz	RB1#0	-40.79	-13	-27.79	Pass
3760.00	V	20 MHz	RB1#0	-28.83	-13	-15.83	Pass
5640.00	V	20 MHz	RB1#0	-35.85	-13	-22.85	Pass
7520.00	V	20 MHz	RB1#0	-39.78	-13	-26.78	Pass

Note: (1) Emission Level= Reading Level+ Correct Factor +Cable Loss.

(2) Correct Factor= Ant\_F + Cab\_L - Preamp

(3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

**For LTE BAND 4 link**

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND4		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10<sup>th</sup> harmonics)

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND4		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
268.81	H	1.4 MHz	RB1#0	-37.10	-13	-24.1	Pass
3465.00	H	1.4 MHz	RB1#0	-28.09	-13	-15.09	Pass
5197.50	H	1.4 MHz	RB1#0	-37.60	-13	-24.6	Pass
6930.00	H	1.4 MHz	RB1#0	-38.28	-13	-25.28	Pass
268.81	V	1.4 MHz	RB1#0	-37.88	-13	-24.88	Pass
3465.00	V	1.4 MHz	RB1#0	-32.38	-13	-19.38	Pass
5197.50	V	1.4 MHz	RB1#0	-36.37	-13	-23.37	Pass
6930.00	V	1.4 MHz	RB1#0	-40.40	-13	-27.40	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND4		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
334.26	H	3 MHz	RB1#0	-35.86	-13	-22.86	Pass
3465.00	H	3 MHz	RB1#0	-28.16	-13	-15.16	Pass
5197.50	H	3 MHz	RB1#0	-34.59	-13	-21.59	Pass
6930.00	H	3 MHz	RB1#0	-41.64	-13	-28.64	Pass
334.26	V	3 MHz	RB1#0	-42.11	-13	-29.11	Pass
3465.00	V	3 MHz	RB1#0	-29.69	-13	-16.69	Pass
5197.50	V	3 MHz	RB1#0	-37.33	-13	-24.33	Pass
6930.00	V	3 MHz	RB1#0	-38.41	-13	-25.41	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND4		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
255.09	H	5 MHz	RB1#0	-42.00	-13	-29.00	Pass
3465.00	H	5 MHz	RB1#0	-27.03	-13	-14.03	Pass
5197.50	H	5 MHz	RB1#0	-33.86	-13	-20.86	Pass
6930.00	H	5 MHz	RB1#0	-39.82	-13	-26.82	Pass
255.09	V	5 MHz	RB1#0	-38.35	-13	-25.35	Pass
3465.00	V	5 MHz	RB1#0	-33.11	-13	-20.11	Pass
5197.50	V	5 MHz	RB1#0	-35.51	-13	-22.51	Pass
6930.00	V	5 MHz	RB1#0	-40.18	-13	-27.18	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND4		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
273.40	H	10 MHz	RB1#0	-36.80	-13	-23.80	Pass
3465.00	H	10 MHz	RB1#0	-31.77	-13	-18.77	Pass
5197.50	H	10 MHz	RB1#0	-37.88	-13	-24.88	Pass
6930.00	H	10 MHz	RB1#0	-38.70	-13	-25.70	Pass
273.40	V	10 MHz	RB1#0	-35.92	-13	-22.92	Pass
3465.00	V	10 MHz	RB1#0	-33.88	-13	-20.88	Pass
5197.50	V	10 MHz	RB1#0	-37.60	-13	-24.60	Pass
6930.00	V	10 MHz	RB1#0	-37.15	-13	-24.15	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND4		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
292.46	H	15 MHz	RB1#0	-43.39	-13	-30.39	Pass
3465.00	H	15 MHz	RB1#0	-32.96	-13	-19.96	Pass
5197.50	H	15 MHz	RB1#0	-37.59	-13	-24.59	Pass
6930.00	H	15 MHz	RB1#0	-37.71	-13	-24.71	Pass
292.46	V	15 MHz	RB1#0	-35.05	-13	-22.05	Pass
3465.00	V	15 MHz	RB1#0	-29.02	-13	-16.02	Pass
5197.50	V	15 MHz	RB1#0	-36.39	-13	-23.39	Pass
6930.00	V	15 MHz	RB1#0	-37.52	-13	-24.52	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND4		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
281.86	H	20 MHz	RB1#0	-39.99	-13	-26.99	Pass
3465.00	H	20 MHz	RB1#0	-29.03	-13	-16.03	Pass
5197.50	H	20 MHz	RB1#0	-34.51	-13	-21.51	Pass
6930.00	H	20 MHz	RB1#0	-40.67	-13	-27.67	Pass
281.86	V	20 MHz	RB1#0	-43.78	-13	-30.78	Pass
3465.00	V	20 MHz	RB1#0	-34.66	-13	-21.66	Pass
5197.50	V	20 MHz	RB1#0	-37.98	-13	-24.98	Pass
6930.00	V	20 MHz	RB1#0	-38.98	-13	-25.98	Pass

Note: (1) Emission Level= Reading Level+ Correct Factor +Cable Loss.

(2) Correct Factor= Ant\_F + Cab\_L - Preamp

(3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

**For LTE BAND 5 link**

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND5		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10<sup>th</sup> harmonics)

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND5		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
273.22	H	1.4 MHz	RB1#0	-37.57	-13	-24.57	Pass
1673.00	H	1.4 MHz	RB1#0	-27.19	-13	-14.19	Pass
2509.50	H	1.4 MHz	RB1#0	-35.13	-13	-22.13	Pass
3346.00	H	1.4 MHz	RB1#0	-40.88	-13	-27.88	Pass
273.22	V	1.4 MHz	RB1#0	-44.94	-13	-31.94	Pass
1673.00	V	1.4 MHz	RB1#0	-29.87	-13	-16.87	Pass
2509.50	V	1.4 MHz	RB1#0	-33.68	-13	-20.68	Pass
3346.00	V	1.4 MHz	RB1#0	-38.75	-13	-25.75	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND5		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
296.01	H	3 MHz	RB1#0	-43.55	-13	-30.55	Pass
1673.00	H	3 MHz	RB1#0	-33.91	-13	-20.91	Pass
2509.50	H	3 MHz	RB1#0	-33.18	-13	-20.18	Pass
3346.00	H	3 MHz	RB1#0	-37.22	-13	-24.22	Pass
296.01	V	3 MHz	RB1#0	-37.75	-13	-24.75	Pass
1673.00	V	3 MHz	RB1#0	-31.19	-13	-18.19	Pass
2509.50	V	3 MHz	RB1#0	-35.42	-13	-22.42	Pass
3346.00	V	3 MHz	RB1#0	-37.88	-13	-24.88	Pass



Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND5		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
278.94	H	5 MHz	RB1#0	-39.42	-13	-26.42	Pass
1673.00	H	5 MHz	RB1#0	-32.50	-13	-19.5	Pass
2509.50	H	5 MHz	RB1#0	-35.13	-13	-22.13	Pass
3346.00	H	5 MHz	RB1#0	-37.48	-13	-24.48	Pass
278.94	V	5 MHz	RB1#0	-35.30	-13	-22.3	Pass
1673.00	V	5 MHz	RB1#0	-29.32	-13	-16.32	Pass
2509.50	V	5 MHz	RB1#0	-35.71	-13	-22.71	Pass
3346.00	V	5 MHz	RB1#0	-40.01	-13	-27.01	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND5		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
277.79	H	10 MHz	RB1#0	-44.83	-13	-31.83	Pass
1673.00	H	10 MHz	RB1#0	-27.18	-13	-14.18	Pass
2509.50	H	10 MHz	RB1#0	-37.86	-13	-24.86	Pass
3346.00	H	10 MHz	RB1#0	-40.30	-13	-27.3	Pass
277.79	V	10 MHz	RB1#0	-40.86	-13	-27.86	Pass
1673.00	V	10 MHz	RB1#0	-28.34	-13	-15.34	Pass
2509.50	V	10 MHz	RB1#0	-37.03	-13	-24.03	Pass
3346.00	V	10 MHz	RB1#0	-41.26	-13	-28.26	Pass

**For LTE BAND12 link**

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24°C	Test By:	KK
Humidity:	53 %		
Test Band:	LTE BAND12		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10<sup>th</sup> harmonics)

Temperature:	24°C	Test By:	KK
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND12		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
397.92	H	1.4 MHz	RB1#0	-38.12	-13	-25.12	Pass
1415.00	H	1.4 MHz	RB1#0	-31.24	-13	-18.24	Pass
2122.50	H	1.4 MHz	RB1#0	-37.70	-13	-24.7	Pass
2830.00	H	1.4 MHz	RB1#0	-39.16	-13	-26.16	Pass
397.92	V	1.4 MHz	RB1#0	-35.12	-13	-22.12	Pass
1415.00	V	1.4 MHz	RB1#0	-34.38	-13	-21.38	Pass
2122.50	V	1.4 MHz	RB1#0	-33.67	-13	-20.67	Pass
2830.00	V	1.4 MHz	RB1#0	-40.83	-13	-27.83	Pass

Temperature:	24°C	Test By:	KK
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND12		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
287.31	H	3 MHz	RB1#0	-41.73	-13	-28.73	Pass
1415.00	H	3 MHz	RB1#0	-29.49	-13	-16.49	Pass
2122.50	H	3 MHz	RB1#0	-35.70	-13	-22.7	Pass
2830.00	H	3 MHz	RB1#0	-37.82	-13	-24.82	Pass
287.31	V	3 MHz	RB1#0	-37.77	-13	-24.77	Pass
1415.00	V	3 MHz	RB1#0	-27.52	-13	-14.52	Pass
2122.50	V	3 MHz	RB1#0	-33.49	-13	-20.49	Pass
2830.00	V	3 MHz	RB1#0	-41.00	-13	-28.00	Pass

- Note: (1) Emission Level= Reading Level+ Correct Factor +Cable Loss.  
 (2) Correct Factor= Ant\_F + Cab\_L - Preamp  
 (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Temperature:	24°C	Test By:	KK
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND12		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
327.96	H	5 MHz	RB1#0	-42.90	-13	-29.90	Pass
1415.00	H	5 MHz	RB1#0	-31.20	-13	-18.20	Pass
2122.50	H	5 MHz	RB1#0	-34.91	-13	-21.91	Pass
2830.00	H	5 MHz	RB1#0	-38.14	-13	-25.14	Pass
327.96	V	5 MHz	RB1#0	-40.54	-13	-27.54	Pass
1415.00	V	5 MHz	RB1#0	-30.44	-13	-17.44	Pass
2122.50	V	5 MHz	RB1#0	-37.16	-13	-24.16	Pass
2830.00	V	5 MHz	RB1#0	-40.69	-13	-27.69	Pass

Temperature:	24°C	Test By:	KK
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND12		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
277.15	H	10 MHz	RB1#0	-43.24	-13	-30.24	Pass
1415.00	H	10 MHz	RB1#0	-29.87	-13	-16.87	Pass
2122.50	H	10 MHz	RB1#0	-37.44	-13	-24.44	Pass
2830.00	H	10 MHz	RB1#0	-41.11	-13	-28.11	Pass
277.15	V	10 MHz	RB1#0	-41.34	-13	-28.34	Pass
1415.00	V	10 MHz	RB1#0	-30.85	-13	-17.85	Pass
2122.50	V	10 MHz	RB1#0	-35.84	-13	-22.84	Pass
2830.00	V	10 MHz	RB1#0	-37.69	-13	-24.69	Pass

- Note: (1) Emission Level= Reading Level+ Correct Factor +Cable Loss.  
 (2) Correct Factor= Ant\_F + Cab\_L - Preamp  
 (3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

**For LTE BAND 13 link**

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24°C	Test By:	KK
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND13		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10<sup>th</sup> harmonics)

Temperature:	24°C	Test By:	KK
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND13		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
287.55	H	5 MHz	RB1#0	-44.92	-13	-31.92	Pass
1564.00	H	5 MHz	RB1#0	-34.57	-13	-21.57	Pass
2346.00	H	5 MHz	RB1#0	-34.99	-13	-21.99	Pass
3128.00	H	5 MHz	RB1#0	-38.78	-13	-25.78	Pass
287.55	V	5 MHz	RB1#0	-41.06	-13	-28.06	Pass
1564.00	V	5 MHz	RB1#0	-29.37	-13	-16.37	Pass
2346.00	V	5 MHz	RB1#0	-33.36	-13	-20.36	Pass
3128.00	V	5 MHz	RB1#0	-41.81	-13	-28.81	Pass

Temperature:	24°C	Test By:	KK
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND13		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
263.52	H	10 MHz	RB1#0	-44.39	-13	-31.39	Pass
1564.00	H	10 MHz	RB1#0	-33.01	-13	-20.01	Pass
2346.00	H	10 MHz	RB1#0	-35.69	-13	-22.69	Pass
3128.00	H	10 MHz	RB1#0	-41.90	-13	-28.9	Pass
263.52	V	10 MHz	RB1#0	-37.35	-13	-24.35	Pass
1564.00	V	10 MHz	RB1#0	-33.10	-13	-20.1	Pass
2346.00	V	10 MHz	RB1#0	-34.67	-13	-21.67	Pass
3128.00	V	10 MHz	RB1#0	-38.26	-13	-25.26	Pass

- Note: (1) Emission Level= Reading Level+ Correct Factor +Cable Loss.  
 (2) Correct Factor= Ant\_F + Cab\_L - Preamp  
 (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

**For LTE BAND 14 link**

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24°C	Test By:	KK
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND14		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10<sup>th</sup> harmonics)

Temperature:	24°C	Test By:	KK
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND14		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
354.08	H	5 MHz	RB1#0	-36.41	-13	-23.41	Pass
1586.00	H	5 MHz	RB1#0	-45.43	-40	-5.43	Pass
2379.00	H	5 MHz	RB1#0	-42.26	-13	-29.26	Pass
3172.00	H	5 MHz	RB1#0	-47.52	-13	-34.52	Pass
354.08	V	5 MHz	RB1#0	-35.15	-13	-22.15	Pass
1586.00	V	5 MHz	RB1#0	-46.77	-40	-6.77	Pass
2379.00	V	5 MHz	RB1#0	-43.48	-13	-30.48	Pass
3172.00	V	5 MHz	RB1#0	-49.61	-13	-36.61	Pass

Temperature:	24°C	Test By:	KK
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND14		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
388.55	H	10 MHz	RB1#0	-36.22	-13	-23.22	Pass
1586.00	H	10 MHz	RB1#0	-46.41	-40	-6.41	Pass
2379.00	H	10 MHz	RB1#0	-43.43	-13	-30.43	Pass
3172.00	H	10 MHz	RB1#0	-49.50	-13	-36.50	Pass
388.55	V	10 MHz	RB1#0	-35.85	-13	-22.85	Pass
1586.00	V	10 MHz	RB1#0	-47.41	-40	-7.41	Pass
2379.00	V	10 MHz	RB1#0	-43.04	-13	-30.04	Pass
3172.00	V	10 MHz	RB1#0	-48.01	-13	-35.01	Pass

Note: (1) Emission Level= Reading Level+ Correct Factor +Cable Loss.  
 (2) Correct Factor= Ant\_F + Cab\_L - Preamp  
 (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

**For LTE BAND 66 link**

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND66		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10<sup>th</sup> harmonics)

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND66		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
359.31	H	1.4 MHz	RB1#0	-37.69	-13	-24.69	Pass
3490.00	H	1.4 MHz	RB1#0	-32.38	-13	-19.38	Pass
5235.00	H	1.4 MHz	RB1#0	-35.64	-13	-22.64	Pass
6980.00	H	1.4 MHz	RB1#0	-40.01	-13	-27.01	Pass
359.31	V	1.4 MHz	RB1#0	-35.79	-13	-22.79	Pass
3490.00	V	1.4 MHz	RB1#0	-30.28	-13	-17.28	Pass
5235.00	V	1.4 MHz	RB1#0	-34.29	-13	-21.29	Pass
6980.00	V	1.4 MHz	RB1#0	-38.26	-13	-25.26	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND66		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
288.49	H	3 MHz	RB1#0	-36.17	-13	-23.17	Pass
3490.00	H	3 MHz	RB1#0	-34.58	-13	-21.58	Pass
5235.00	H	3 MHz	RB1#0	-33.29	-13	-20.29	Pass
6980.00	H	3 MHz	RB1#0	-37.34	-13	-24.34	Pass
288.49	V	3 MHz	RB1#0	-38.45	-13	-25.45	Pass
3490.00	V	3 MHz	RB1#0	-30.34	-13	-17.34	Pass
5235.00	V	3 MHz	RB1#0	-34.03	-13	-21.03	Pass
6980.00	V	3 MHz	RB1#0	-37.16	-13	-24.16	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND66		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
296.23	H	5 MHz	RB1#0	-37.49	-13	-24.49	Pass
3490.00	H	5 MHz	RB1#0	-28.66	-13	-15.66	Pass
5235.00	H	5 MHz	RB1#0	-33.74	-13	-20.74	Pass
6980.00	H	5 MHz	RB1#0	-39.23	-13	-26.23	Pass
296.23	V	5 MHz	RB1#0	-35.16	-13	-22.16	Pass
3490.00	V	5 MHz	RB1#0	-30.79	-13	-17.79	Pass
5235.00	V	5 MHz	RB1#0	-35.65	-13	-22.65	Pass
6980.00	V	5 MHz	RB1#0	-39.18	-13	-26.18	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND66		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
411.57	H	10 MHz	RB1#0	-43.77	-13	-30.77	Pass
3490.00	H	10 MHz	RB1#0	-27.59	-13	-14.59	Pass
5235.00	H	10 MHz	RB1#0	-34.02	-13	-21.02	Pass
6980.00	H	10 MHz	RB1#0	-41.38	-13	-28.38	Pass
411.57	V	10 MHz	RB1#0	-35.85	-13	-22.85	Pass
3490.00	V	10 MHz	RB1#0	-34.90	-13	-21.9	Pass
5235.00	V	10 MHz	RB1#0	-33.46	-13	-20.46	Pass
6980.00	V	10 MHz	RB1#0	-39.27	-13	-26.27	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND66		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
322.08	H	15 MHz	RB1#0	-38.25	-13	-25.25	Pass
3490.00	H	15 MHz	RB1#0	-34.19	-13	-21.19	Pass
5235.00	H	15 MHz	RB1#0	-37.51	-13	-24.51	Pass
6980.00	H	15 MHz	RB1#0	-38.43	-13	-25.43	Pass
322.08	V	15 MHz	RB1#0	-40.46	-13	-27.46	Pass
3490.00	V	15 MHz	RB1#0	-32.18	-13	-19.18	Pass
5235.00	V	15 MHz	RB1#0	-33.01	-13	-20.01	Pass
6980.00	V	15 MHz	RB1#0	-37.20	-13	-24.20	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND66		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
311.36	H	20 MHz	RB1#0	-44.76	-13	-31.76	Pass
3490.00	H	20 MHz	RB1#0	-27.03	-13	-14.03	Pass
5235.00	H	20 MHz	RB1#0	-36.93	-13	-23.93	Pass
6980.00	H	20 MHz	RB1#0	-37.49	-13	-24.49	Pass
311.36	V	20 MHz	RB1#0	-40.63	-13	-27.63	Pass
3490.00	V	20 MHz	RB1#0	-33.27	-13	-20.27	Pass
5235.00	V	20 MHz	RB1#0	-36.81	-13	-23.81	Pass
6980.00	V	20 MHz	RB1#0	-39.99	-13	-26.99	Pass

Note: (1) Emission Level= Reading Level+ Correct Factor +Cable Loss.

(2) Correct Factor= Ant\_F + Cab\_L - Preamp

(3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



**For LTE BAND 71 link**

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND71		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
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Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission Above 30MHz (30MHz to 10<sup>th</sup> harmonics)

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND71		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
352.97	H	5 MHz	RB1#0	-35.57	-13	-22.57	Pass
1361.00	H	5 MHz	RB1#0	-32.10	-13	-19.1	Pass
2041.50	H	5 MHz	RB1#0	-33.90	-13	-20.9	Pass
2722.00	H	5 MHz	RB1#0	-37.16	-13	-24.16	Pass
352.97	V	5 MHz	RB1#0	-36.58	-13	-23.58	Pass
1361.00	V	5 MHz	RB1#0	-32.99	-13	-19.99	Pass
2041.50	V	5 MHz	RB1#0	-36.09	-13	-23.09	Pass
2722.00	V	5 MHz	RB1#0	-37.75	-13	-24.75	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND71		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
289.99	H	10 MHz	RB1#0	-40.79	-13	-27.79	Pass
1361.00	H	10 MHz	RB1#0	-27.17	-13	-14.17	Pass
2041.50	H	10 MHz	RB1#0	-35.83	-13	-22.83	Pass
2722.00	H	10 MHz	RB1#0	-38.91	-13	-25.91	Pass
289.99	V	10 MHz	RB1#0	-39.85	-13	-26.85	Pass
1361.00	V	10 MHz	RB1#0	-30.51	-13	-17.51	Pass
2041.50	V	10 MHz	RB1#0	-33.98	-13	-20.98	Pass
2722.00	V	10 MHz	RB1#0	-37.81	-13	-24.81	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND71		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
263.31	H	15 MHz	RB1#0	-43.03	-13	-30.03	Pass
1361.00	H	15 MHz	RB1#0	-31.61	-13	-18.61	Pass
2041.50	H	15 MHz	RB1#0	-37.86	-13	-24.86	Pass
2722.00	H	15 MHz	RB1#0	-37.57	-13	-24.57	Pass
263.31	V	15 MHz	RB1#0	-41.24	-13	-28.24	Pass
1361.00	V	15 MHz	RB1#0	-29.68	-13	-16.68	Pass
2041.50	V	15 MHz	RB1#0	-35.01	-13	-22.01	Pass
2722.00	V	15 MHz	RB1#0	-41.06	-13	-28.06	Pass

Temperature:	24°C	Test By:	XW
Humidity:	53 %	Test Mode:	QPSK/ Middle Channel
Test Band:	LTE BAND71		

Freq. (MHz)	H/V	Bandwidth (MHz)	Test RB	Emission Level(dBm)	Limit (dBm)	Margin (dBm)	Verdict
290.71	H	20 MHz	RB1#0	-37.48	-13	-24.48	Pass
1366.00	H	20 MHz	RB1#0	-31.53	-13	-18.53	Pass
2049.00	H	20 MHz	RB1#0	-33.09	-13	-20.09	Pass
2732.00	H	20 MHz	RB1#0	-39.83	-13	-26.83	Pass
290.71	V	20 MHz	RB1#0	-41.68	-13	-28.68	Pass
1366.00	V	20 MHz	RB1#0	-32.20	-13	-19.2	Pass
2049.00	V	20 MHz	RB1#0	-36.63	-13	-23.63	Pass
2732.00	V	20 MHz	RB1#0	-41.43	-13	-28.43	Pass

- Note: (1) Emission Level= Reading Level+ Correct Factor +Cable Loss.  
 (2) Correct Factor= Ant\_F + Cab\_L - Preamp  
 (3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

### APPENDIX H: TEST DATA FOR FREQUENCY STABILITY

All modes have been tested, and the worst result recorded was report as below

#### Band 2

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.12	0.001686	± 2.5	PASS
		VN	TN	-0.53	-0.000286	± 2.5	PASS
		VH	TN	4.79	0.002588	± 2.5	PASS
	MCH	VL	TN	-1.81	-0.000963	± 2.5	PASS
		VN	TN	-0.9	-0.000479	± 2.5	PASS
		VH	TN	1.86	0.000989	± 2.5	PASS
	HCH	VL	TN	1.9	0.000995	± 2.5	PASS
		VN	TN	-0.5	-0.000262	± 2.5	PASS
		VH	TN	3.2	0.001676	± 2.5	PASS
16QAM	LCH	VL	TN	1.06	0.000573	± 2.5	PASS
		VN	TN	-1.53	-0.000827	± 2.5	PASS
		VH	TN	0.68	0.000367	± 2.5	PASS
	MCH	VL	TN	4.52	0.002404	± 2.5	PASS
		VN	TN	-0.08	-0.000043	± 2.5	PASS
		VH	TN	4.97	0.002644	± 2.5	PASS
	HCH	VL	TN	0.84	0.000440	± 2.5	PASS
		VN	TN	-0.6	-0.000314	± 2.5	PASS
		VH	TN	-1.3	-0.000681	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.24	0.000130	± 2.5	PASS
		VN	-20	-0.44	-0.000238	± 2.5	PASS
		VN	-10	-0.21	-0.000113	± 2.5	PASS
		VN	0	3.88	0.002097	± 2.5	PASS
		VN	10	-0.75	-0.000405	± 2.5	PASS
		VN	20	0.3	0.000162	± 2.5	PASS
		VN	30	-1.47	-0.000794	± 2.5	PASS
		VN	40	3.52	0.001902	± 2.5	PASS
	MCH	VN	50	-0.77	-0.000416	± 2.5	PASS
		VN	-30	-0.37	-0.000197	± 2.5	PASS
		VN	-20	-0.4	-0.000213	± 2.5	PASS
		VN	-10	0.98	0.000521	± 2.5	PASS
		VN	0	0.24	0.000128	± 2.5	PASS
		VN	10	3.8	0.002021	± 2.5	PASS
		VN	20	1.44	0.000766	± 2.5	PASS
		VN	30	0.61	0.000324	± 2.5	PASS
		VN	40	1.15	0.000612	± 2.5	PASS
		VN	50	-0.8	-0.000426	± 2.5	PASS
	HCH	VN	-30	4.25	0.002226	± 2.5	PASS
		VN	-20	2.55	0.001336	± 2.5	PASS

		VN	-10	-1.3	-0.000681	± 2.5	PASS	
		VN	0	2.32	0.001215	± 2.5	PASS	
		VN	10	-0.53	-0.000278	± 2.5	PASS	
		VN	20	-0.86	-0.000450	± 2.5	PASS	
		VN	30	4.6	0.002409	± 2.5	PASS	
		VN	40	0.37	0.000194	± 2.5	PASS	
		VN	50	1.59	0.000833	± 2.5	PASS	
16QAM	LCH	VN	-30	-0.23	-0.000124	± 2.5	PASS	
		VN	-20	-1.38	-0.000746	± 2.5	PASS	
		VN	-10	-0.97	-0.000524	± 2.5	PASS	
		VN	0	4.77	0.002577	± 2.5	PASS	
		VN	10	-1.18	-0.000638	± 2.5	PASS	
		VN	20	3.12	0.001686	± 2.5	PASS	
		VN	30	4.09	0.002210	± 2.5	PASS	
		VN	40	4.38	0.002367	± 2.5	PASS	
	MCH	VN	50	0.68	0.000367	± 2.5	PASS	
		VN	-30	4.62	0.002457	± 2.5	PASS	
		VN	-20	-0.68	-0.000362	± 2.5	PASS	
		VN	-10	2.26	0.001202	± 2.5	PASS	
		VN	0	4.45	0.002367	± 2.5	PASS	
		VN	10	1.36	0.000723	± 2.5	PASS	
		VN	20	3.84	0.002043	± 2.5	PASS	
		VN	30	2.47	0.001314	± 2.5	PASS	
	HCH	VN	40	3.31	0.001761	± 2.5	PASS	
		VN	50	2.75	0.001463	± 2.5	PASS	
		VN	-30	0.63	0.000330	± 2.5	PASS	
		VN	-20	2.9	0.001519	± 2.5	PASS	
		VN	-10	0.68	0.000356	± 2.5	PASS	
		VN	0	3.23	0.001692	± 2.5	PASS	
		VN	10	-1.72	-0.000901	± 2.5	PASS	
		VN	20	-1.74	-0.000911	± 2.5	PASS	
			VN	30	1.43	0.000749	± 2.5	PASS
			VN	40	3.31	0.001734	± 2.5	PASS
			VN	50	3.82	0.002001	± 2.5	PASS

**Channel Bandwidth: 3 MHz**

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.32	0.000713	± 2.5	PASS
		VN	TN	-0.04	-0.000022	± 2.5	PASS
		VH	TN	4.69	0.002533	± 2.5	PASS
	MCH	VL	TN	3.32	0.001766	± 2.5	PASS
		VN	TN	4.28	0.002277	± 2.5	PASS
		VH	TN	-0.46	-0.000245	± 2.5	PASS
	HCH	VL	TN	4.73	0.002478	± 2.5	PASS
		VN	TN	3.14	0.001645	± 2.5	PASS
		VH	TN	1.3	0.000681	± 2.5	PASS

16QAM	LCH	VL	TN	-1.36	-0.000735	± 2.5	PASS
		VN	TN	3.23	0.001745	± 2.5	PASS
		VH	TN	-1.22	-0.000659	± 2.5	PASS
	MCH	VL	TN	3.2	0.001702	± 2.5	PASS
		VN	TN	-0.85	-0.000452	± 2.5	PASS
		VH	TN	-0.24	-0.000128	± 2.5	PASS
	HCH	VL	TN	-0.48	-0.000252	± 2.5	PASS
		VN	TN	0.31	0.000162	± 2.5	PASS
		VH	TN	3.02	0.001582	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.95	0.002133	± 2.5	PASS
		VN	-20	2.87	0.001550	± 2.5	PASS
		VN	-10	0.2	0.000108	± 2.5	PASS
		VN	0	3.46	0.001869	± 2.5	PASS
		VN	10	0.51	0.000275	± 2.5	PASS
		VN	20	-1.24	-0.000670	± 2.5	PASS
		VN	30	-0.6	-0.000324	± 2.5	PASS
		VN	40	1.02	0.000551	± 2.5	PASS
	MCH	VN	50	-0.09	-0.000049	± 2.5	PASS
		VN	-30	1.17	0.000622	± 2.5	PASS
		VN	-20	0.25	0.000133	± 2.5	PASS
		VN	-10	2.83	0.001505	± 2.5	PASS
		VN	0	4.55	0.002420	± 2.5	PASS
		VN	10	3.47	0.001846	± 2.5	PASS
		VN	20	2.47	0.001314	± 2.5	PASS
		VN	30	4.11	0.002186	± 2.5	PASS
	HCH	VN	40	2.42	0.001287	± 2.5	PASS
		VN	50	-0.91	-0.000484	± 2.5	PASS
		VN	-30	1.68	0.000880	± 2.5	PASS
		VN	-20	1.53	0.000802	± 2.5	PASS
		VN	-10	4.56	0.002389	± 2.5	PASS
		VN	0	1.32	0.000692	± 2.5	PASS
		VN	10	1.22	0.000639	± 2.5	PASS
		VN	20	1.4	0.000734	± 2.5	PASS
16QAM	LCH	VN	30	-0.11	-0.000058	± 2.5	PASS
		VN	40	4.62	0.002421	± 2.5	PASS
		VN	50	4.83	0.002531	± 2.5	PASS
		VN	-30	-0.26	-0.000140	± 2.5	PASS
		VN	-20	0.86	0.000464	± 2.5	PASS
		VN	-10	1.61	0.000870	± 2.5	PASS
		VN	0	1.41	0.000762	± 2.5	PASS
		VN	10	-1.25	-0.000675	± 2.5	PASS
	MCH	VN	20	3.7	0.001998	± 2.5	PASS
VN	30	4.03	0.002177	± 2.5	PASS		
VN	40	-1.74	-0.000940	± 2.5	PASS		
VN	50	-0.32	-0.000173	± 2.5	PASS		
VN	-30	1.42	0.000755	± 2.5	PASS		

		VN	-20	-0.44	-0.000234	± 2.5	PASS
		VN	-10	3.12	0.001660	± 2.5	PASS
		VN	0	4.97	0.002644	± 2.5	PASS
		VN	10	-1.81	-0.000963	± 2.5	PASS
		VN	20	3.04	0.001617	± 2.5	PASS
		VN	30	2.55	0.001356	± 2.5	PASS
		VN	40	4.98	0.002649	± 2.5	PASS
		VN	50	2.94	0.001564	± 2.5	PASS
	HCH	VN	-30	-0.8	-0.000419	± 2.5	PASS
		VN	-20	4.69	0.002457	± 2.5	PASS
		VN	-10	-0.27	-0.000141	± 2.5	PASS
		VN	0	1.22	0.000639	± 2.5	PASS
		VN	10	-0.26	-0.000136	± 2.5	PASS
		VN	20	2.67	0.001399	± 2.5	PASS
		VN	30	3.43	0.001797	± 2.5	PASS
		VN	40	-1.08	-0.000566	± 2.5	PASS
		VN	50	-0.53	-0.000278	± 2.5	PASS

**Channel Bandwidth: 5 MHz**

Channel Bandwidth: 5 MHz								
Voltage								
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
QPSK	LCH	VL	TN	1.59	0.000858	± 2.5	PASS	
		VN	TN	4.16	0.002246	± 2.5	PASS	
		VH	TN	-0.75	-0.000405	± 2.5	PASS	
	MCH	VL	TN	1.08	0.000574	± 2.5	PASS	
		VN	TN	1.17	0.000622	± 2.5	PASS	
		VH	TN	4.51	0.002399	± 2.5	PASS	
	HCH	VL	TN	1.03	0.000540	± 2.5	PASS	
		VN	TN	0.11	0.000058	± 2.5	PASS	
		VH	TN	2.73	0.001431	± 2.5	PASS	
	16QAM	LCH	VL	TN	1.54	0.000831	± 2.5	PASS
			VN	TN	0.22	0.000119	± 2.5	PASS
			VH	TN	1.13	0.000610	± 2.5	PASS
MCH		VL	TN	0.83	0.000441	± 2.5	PASS	
		VN	TN	2.67	0.001420	± 2.5	PASS	
		VH	TN	2.34	0.001245	± 2.5	PASS	
HCH		VL	TN	-0.49	-0.000257	± 2.5	PASS	
		VN	TN	2.86	0.001499	± 2.5	PASS	
		VH	TN	2.7	0.001415	± 2.5	PASS	
Temperature								
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
QPSK	LCH	VN	-30	2.96	0.001598	± 2.5	PASS	
		VN	-20	3.52	0.001900	± 2.5	PASS	
		VN	-10	4.98	0.002688	± 2.5	PASS	
		VN	0	2.36	0.001274	± 2.5	PASS	
		VN	10	-0.97	-0.000524	± 2.5	PASS	

		VN	20	3.44	0.001857	± 2.5	PASS	
		VN	30	3.71	0.002003	± 2.5	PASS	
		VN	40	1.48	0.000799	± 2.5	PASS	
		VN	50	1.1	0.000594	± 2.5	PASS	
	MCH	VN	-30	3.38	0.001798	± 2.5	PASS	
		VN	-20	2.05	0.001090	± 2.5	PASS	
		VN	-10	2.31	0.001229	± 2.5	PASS	
		VN	0	4.8	0.002553	± 2.5	PASS	
		VN	10	1.09	0.000580	± 2.5	PASS	
		VN	20	-0.96	-0.000511	± 2.5	PASS	
		VN	30	0.65	0.000346	± 2.5	PASS	
		VN	40	4.84	0.002574	± 2.5	PASS	
		VN	50	-1.9	-0.001011	± 2.5	PASS	
		HCH	VN	-30	-1.08	-0.000566	± 2.5	PASS
			VN	-20	2.6	0.001363	± 2.5	PASS
			VN	-10	1.36	0.000713	± 2.5	PASS
	VN		0	3.89	0.002039	± 2.5	PASS	
	VN		10	1.7	0.000891	± 2.5	PASS	
	VN		20	-0.67	-0.000351	± 2.5	PASS	
	VN		30	0.06	0.000031	± 2.5	PASS	
	VN		40	2.05	0.001075	± 2.5	PASS	
	16QAM	LCH	VN	-30	0.28	0.000151	± 2.5	PASS
			VN	-20	-1.66	-0.000896	± 2.5	PASS
			VN	-10	-0.96	-0.000518	± 2.5	PASS
			VN	0	1.56	0.000842	± 2.5	PASS
			VN	10	2.2	0.001188	± 2.5	PASS
			VN	20	3.57	0.001927	± 2.5	PASS
			VN	30	4.01	0.002165	± 2.5	PASS
VN			40	-1.32	-0.000713	± 2.5	PASS	
VN			50	-1.71	-0.000923	± 2.5	PASS	
MCH		VN	-30	2.3	0.001223	± 2.5	PASS	
		VN	-20	-1.79	-0.000952	± 2.5	PASS	
		VN	-10	3.58	0.001904	± 2.5	PASS	
		VN	0	3.89	0.002069	± 2.5	PASS	
		VN	10	-0.49	-0.000261	± 2.5	PASS	
		VN	20	3.42	0.001819	± 2.5	PASS	
		VN	30	-1.99	-0.001059	± 2.5	PASS	
		VN	40	2.93	0.001559	± 2.5	PASS	
		VN	50	-1.27	-0.000676	± 2.5	PASS	
HCH		VN	-30	-1.3	-0.000682	± 2.5	PASS	
		VN	-20	2.05	0.001075	± 2.5	PASS	
		VN	-10	0.34	0.000178	± 2.5	PASS	
		VN	0	-1.12	-0.000587	± 2.5	PASS	
		VN	10	-1.39	-0.000729	± 2.5	PASS	
		VN	20	-0.57	-0.000299	± 2.5	PASS	
		VN	30	0.97	0.000509	± 2.5	PASS	
		VN	40	4.24	0.002223	± 2.5	PASS	
		VN	50	4.86	0.002548	± 2.5	PASS	

**Channel Bandwidth: 10 MHz**

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.11	-0.000598	± 2.5	PASS
		VN	TN	0.99	0.000534	± 2.5	PASS
		VH	TN	-0.91	-0.000491	± 2.5	PASS
	MCH	VL	TN	4.36	0.002319	± 2.5	PASS
		VN	TN	-0.62	-0.000330	± 2.5	PASS
		VH	TN	0.38	0.000202	± 2.5	PASS
	HCH	VL	TN	1.71	0.000898	± 2.5	PASS
		VN	TN	0.61	0.000320	± 2.5	PASS
		VH	TN	4.8	0.002520	± 2.5	PASS
16QAM	LCH	VL	TN	3.13	0.001687	± 2.5	PASS
		VN	TN	-1.61	-0.000868	± 2.5	PASS
		VH	TN	4.72	0.002544	± 2.5	PASS
	MCH	VL	TN	3.13	0.001665	± 2.5	PASS
		VN	TN	1.9	0.001011	± 2.5	PASS
		VH	TN	4.77	0.002537	± 2.5	PASS
	HCH	VL	TN	-0.58	-0.000304	± 2.5	PASS
		VN	TN	1.95	0.001024	± 2.5	PASS
		VH	TN	-0.32	-0.000168	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.64	0.002501	± 2.5	PASS
		VN	-20	-0.28	-0.000151	± 2.5	PASS
		VN	-10	1.77	0.000954	± 2.5	PASS
		VN	0	2.34	0.001261	± 2.5	PASS
		VN	10	3.7	0.001995	± 2.5	PASS
		VN	20	1.81	0.000976	± 2.5	PASS
		VN	30	-1.28	-0.000690	± 2.5	PASS
		VN	40	3.08	0.001660	± 2.5	PASS
	MCH	VN	50	2.48	0.001337	± 2.5	PASS
		VN	-30	4.92	0.002617	± 2.5	PASS
		VN	-20	2.47	0.001314	± 2.5	PASS
		VN	-10	3.85	0.002048	± 2.5	PASS
		VN	0	1.99	0.001059	± 2.5	PASS
		VN	10	1.49	0.000793	± 2.5	PASS
		VN	20	0.98	0.000521	± 2.5	PASS
		VN	30	1.44	0.000766	± 2.5	PASS
	HCH	VN	40	2.21	0.001176	± 2.5	PASS
		VN	50	3.59	0.001910	± 2.5	PASS
		VN	-30	0.74	0.000388	± 2.5	PASS
		VN	-20	-0.64	-0.000336	± 2.5	PASS
		VN	-10	1.97	0.001034	± 2.5	PASS
		VN	0	1.77	0.000929	± 2.5	PASS



		VN	10	4.51	0.002367	± 2.5	PASS
		VN	20	-1.49	-0.000782	± 2.5	PASS
		VN	30	3.47	0.001822	± 2.5	PASS
		VN	40	1.27	0.000667	± 2.5	PASS
		VN	50	2.41	0.001265	± 2.5	PASS
16QAM	LCH	VN	-30	2.64	0.001423	± 2.5	PASS
		VN	-20	2.72	0.001466	± 2.5	PASS
		VN	-10	0.28	0.000151	± 2.5	PASS
		VN	0	-1.09	-0.000588	± 2.5	PASS
		VN	10	-0.17	-0.000092	± 2.5	PASS
		VN	20	-1.11	-0.000598	± 2.5	PASS
		VN	30	4.79	0.002582	± 2.5	PASS
		VN	40	-1.4	-0.000755	± 2.5	PASS
		VN	50	4.81	0.002593	± 2.5	PASS
	MCH	VN	-30	2.8	0.001489	± 2.5	PASS
		VN	-20	0.15	0.000080	± 2.5	PASS
		VN	-10	2.25	0.001197	± 2.5	PASS
		VN	0	-1.53	-0.000814	± 2.5	PASS
		VN	10	2.09	0.001112	± 2.5	PASS
		VN	20	0.76	0.000404	± 2.5	PASS
		VN	30	-1.34	-0.000713	± 2.5	PASS
		VN	40	-0.54	-0.000287	± 2.5	PASS
		VN	50	-1	-0.000532	± 2.5	PASS
	HCH	VN	-30	-1.82	-0.000955	± 2.5	PASS
		VN	-20	0.88	0.000462	± 2.5	PASS
		VN	-10	2.26	0.001186	± 2.5	PASS
		VN	0	-0.81	-0.000425	± 2.5	PASS
		VN	10	-1.24	-0.000651	± 2.5	PASS
		VN	20	2.9	0.001522	± 2.5	PASS
		VN	30	1.88	0.000987	± 2.5	PASS
		VN	40	4.81	0.002525	± 2.5	PASS
		VN	50	3.06	0.001606	± 2.5	PASS

**Channel Bandwidth: 15 MHz**

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.17	0.000630	± 2.5	PASS
		VN	TN	1.99	0.001071	± 2.5	PASS
		VH	TN	1.22	0.000657	± 2.5	PASS
	MCH	VL	TN	0.89	0.000473	± 2.5	PASS
		VN	TN	2.91	0.001548	± 2.5	PASS
		VH	TN	0.76	0.000404	± 2.5	PASS
	HCH	VL	TN	3.69	0.001940	± 2.5	PASS
		VN	TN	0.6	0.000315	± 2.5	PASS
		VH	TN	1.15	0.000604	± 2.5	PASS
16QAM	LCH	VL	TN	4.63	0.002493	± 2.5	PASS
		VN	TN	-1.25	-0.000673	± 2.5	PASS

	MCH	VH	TN	1.46	0.000786	± 2.5	PASS	
		VL	TN	4.52	0.002404	± 2.5	PASS	
		VN	TN	3.11	0.001654	± 2.5	PASS	
		VH	TN	-1.94	-0.001032	± 2.5	PASS	
	HCH	VL	TN	3.52	0.001850	± 2.5	PASS	
		VN	TN	2.85	0.001498	± 2.5	PASS	
		VH	TN	-0.48	-0.000252	± 2.5	PASS	
Temperature								
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
QPSK	LCH	VN	-30	3.47	0.001868	± 2.5	PASS	
		VN	-20	1.39	0.000748	± 2.5	PASS	
		VN	-10	2.35	0.001265	± 2.5	PASS	
		VN	0	4.22	0.002272	± 2.5	PASS	
		VN	10	0.67	0.000361	± 2.5	PASS	
		VN	20	1.71	0.000921	± 2.5	PASS	
		VN	30	0.87	0.000468	± 2.5	PASS	
		VN	40	-0.88	-0.000474	± 2.5	PASS	
		VN	50	-1.98	-0.001066	± 2.5	PASS	
	MCH	VN	-30	4.6	0.002447	± 2.5	PASS	
		VN	-20	0.69	0.000367	± 2.5	PASS	
		VN	-10	0.08	0.000043	± 2.5	PASS	
		VN	0	4.84	0.002574	± 2.5	PASS	
		VN	10	-1.29	-0.000686	± 2.5	PASS	
		VN	20	3.2	0.001702	± 2.5	PASS	
		VN	30	-0.17	-0.000090	± 2.5	PASS	
		VN	40	-1.53	-0.000814	± 2.5	PASS	
	HCH	VN	50	3.98	0.002117	± 2.5	PASS	
		VN	-30	3.6	0.001892	± 2.5	PASS	
		VN	-20	3.49	0.001834	± 2.5	PASS	
		VN	-10	2.46	0.001293	± 2.5	PASS	
		VN	0	4.85	0.002549	± 2.5	PASS	
		VN	10	-1.13	-0.000594	± 2.5	PASS	
		VN	20	2.24	0.001177	± 2.5	PASS	
		VN	30	3.43	0.001803	± 2.5	PASS	
		VN	40	3.77	0.001982	± 2.5	PASS	
	16QAM	LCH	VN	50	4.83	0.002539	± 2.5	PASS
			VN	-30	4.6	0.002476	± 2.5	PASS
VN			-20	4.33	0.002331	± 2.5	PASS	
VN			-10	4.67	0.002514	± 2.5	PASS	
VN			0	-1.71	-0.000921	± 2.5	PASS	
VN			10	2.23	0.001201	± 2.5	PASS	
VN			20	0.29	0.000156	± 2.5	PASS	
VN			30	2.19	0.001179	± 2.5	PASS	
VN			40	-1.1	-0.000592	± 2.5	PASS	
MCH		VN	50	3.48	0.001873	± 2.5	PASS	
		VN	-30	3.64	0.001936	± 2.5	PASS	
		VN	-20	-1.95	-0.001037	± 2.5	PASS	
		VN	-10	4.72	0.002511	± 2.5	PASS	