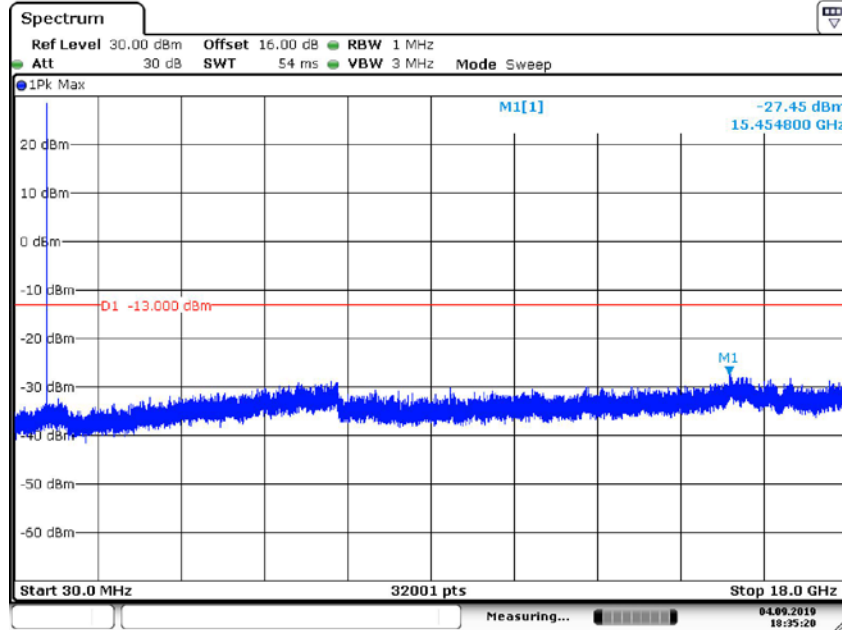


LTE Band 12: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

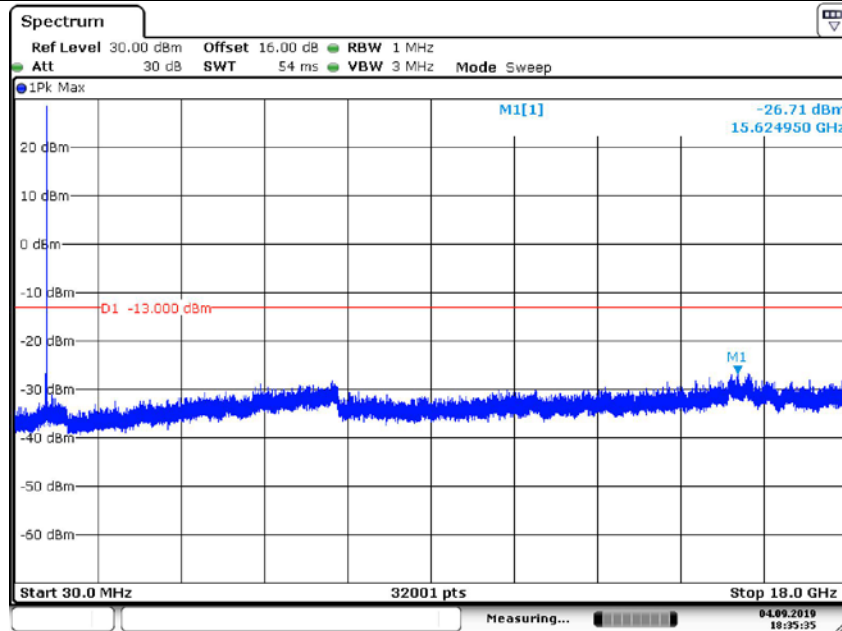
Test BW: 3MHz - Middle Channel - RB1#0

QPSK



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

16QAM

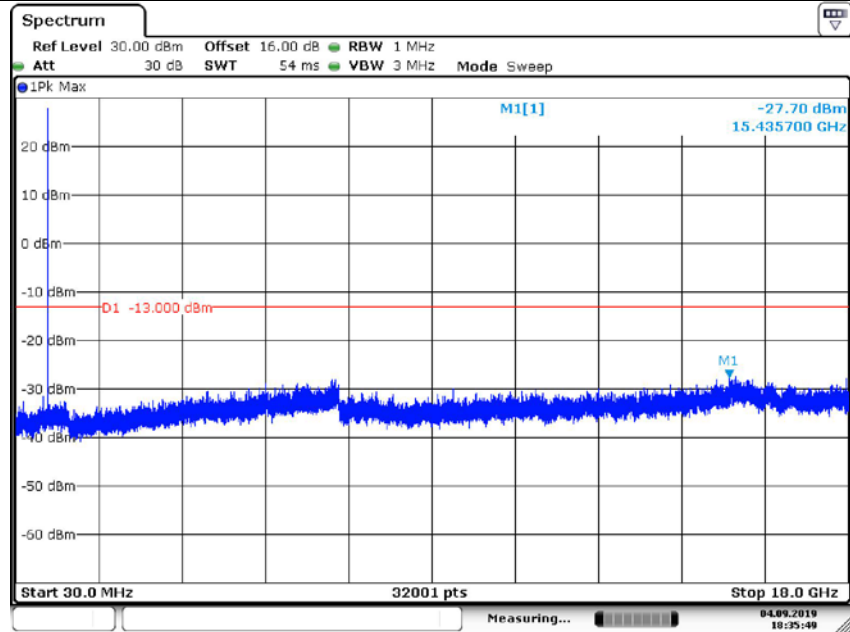


Date: 4.SEP.2019 18:35:35

LTE Band 12: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

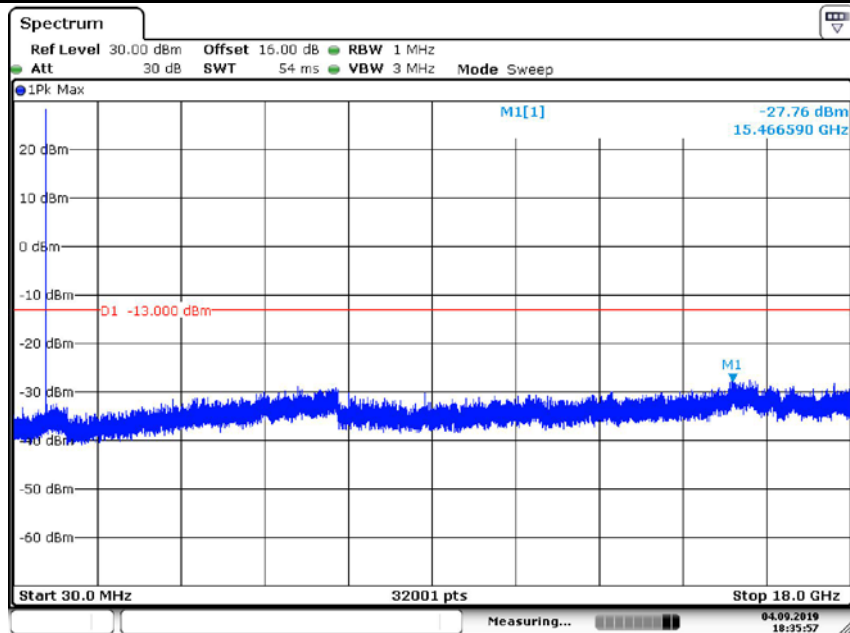
Test BW: 5MHz - Middle Channel - RB1#0

QPSK



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

16QAM

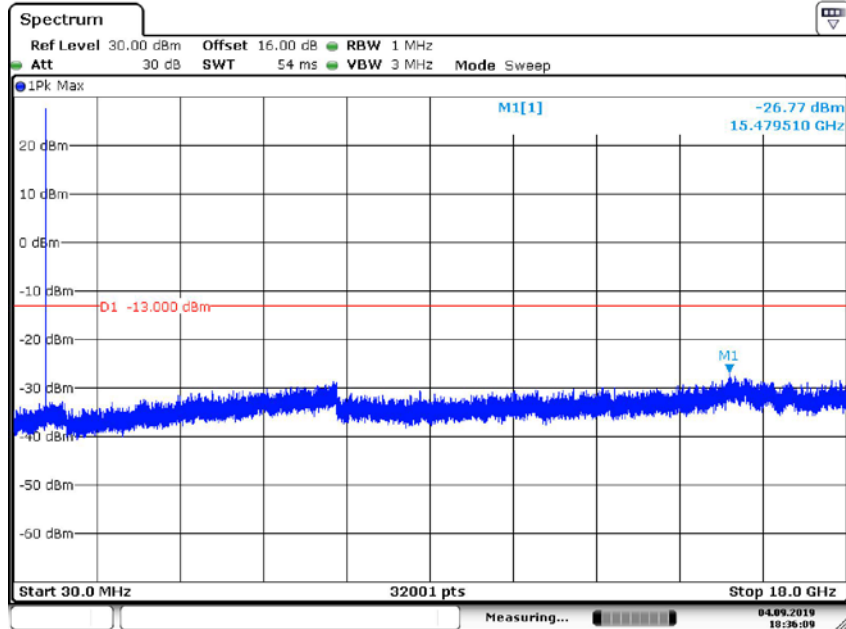


Date: 4.SEP.2019 18:35:57

LTE Band 12: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

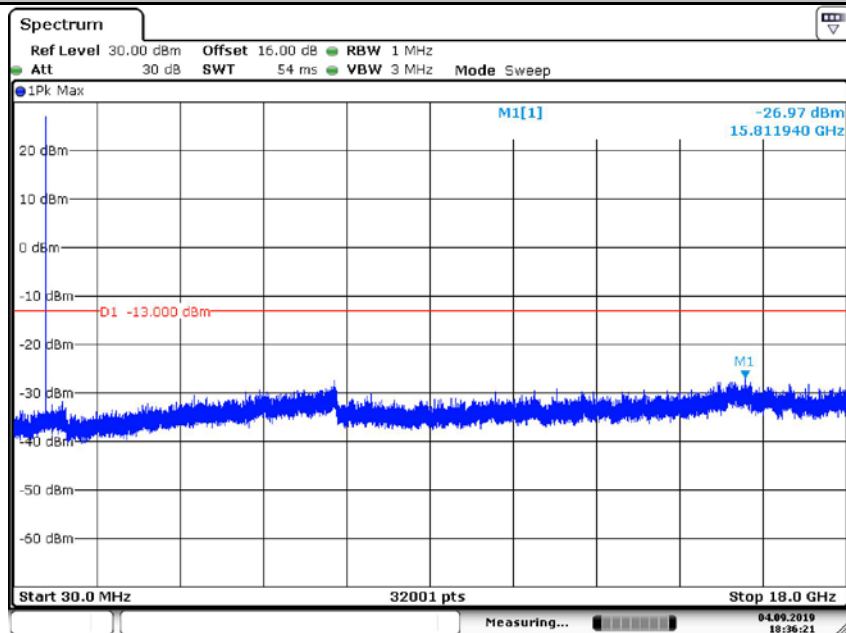
Test BW: 10MHz - Middle Channel - RB1#0

QPSK



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

16QAM

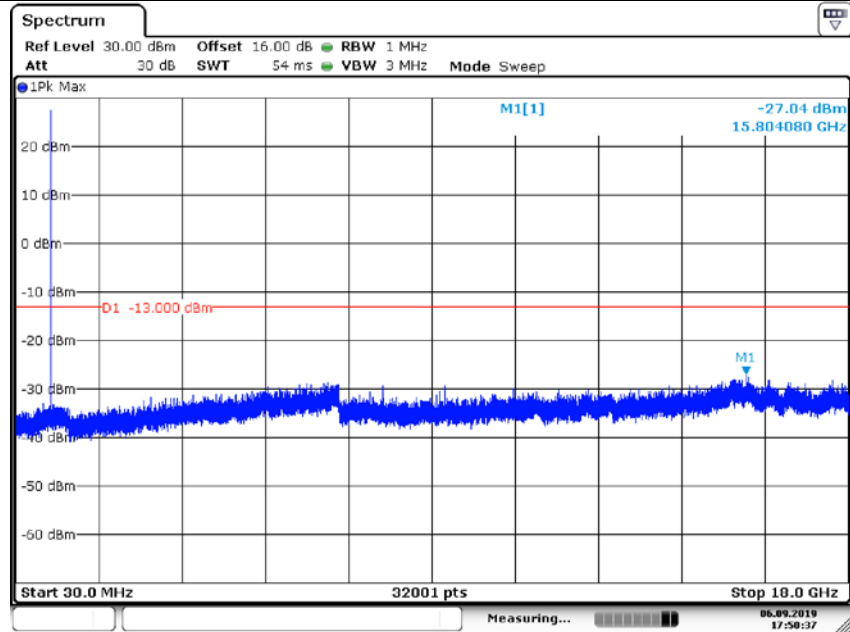


Date: 4.SEP.2019 18:36:21

LTE Band 13: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

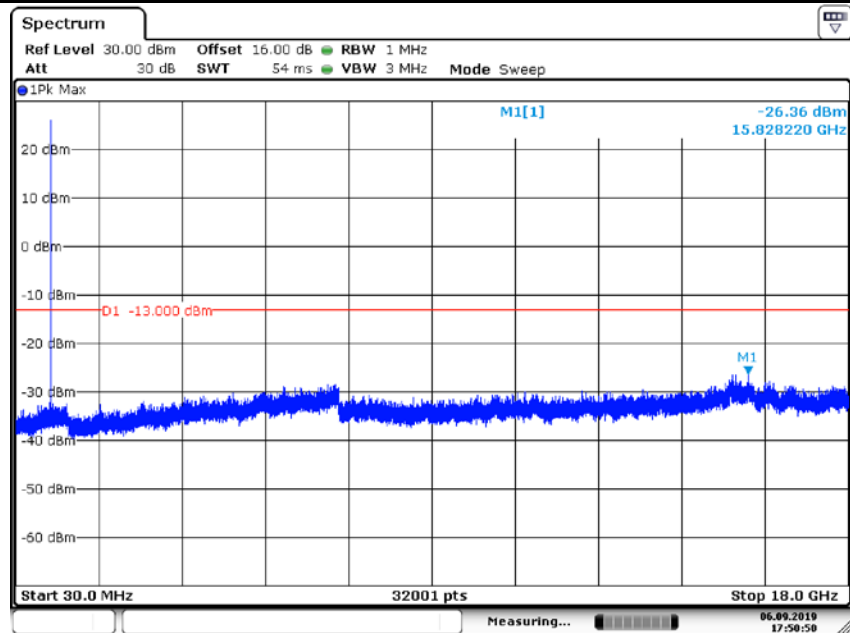
Test BW: 5MHz - Middle Channel - RB1#0

QPSK



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

16QAM

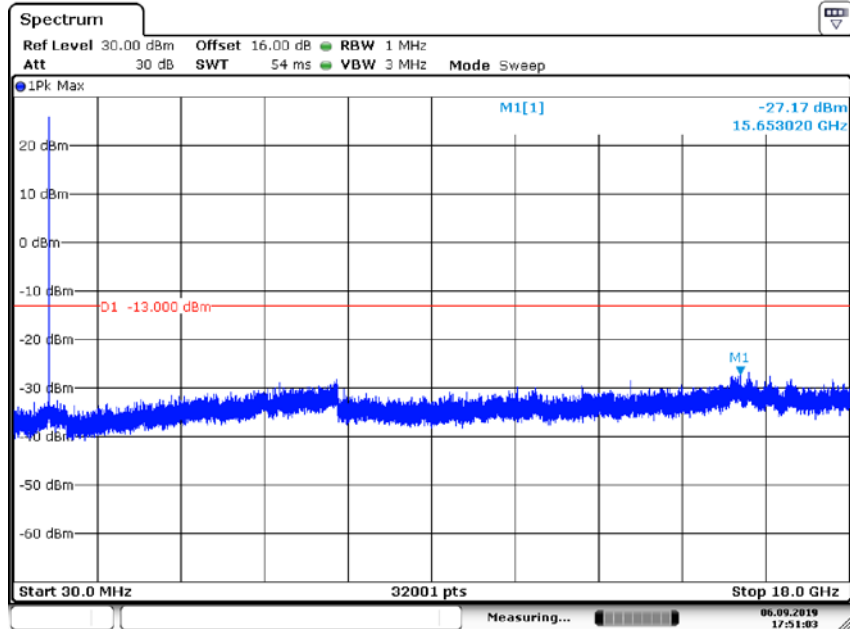


Date: 6.SEP.2019 17:50:50

LTE Band 13: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

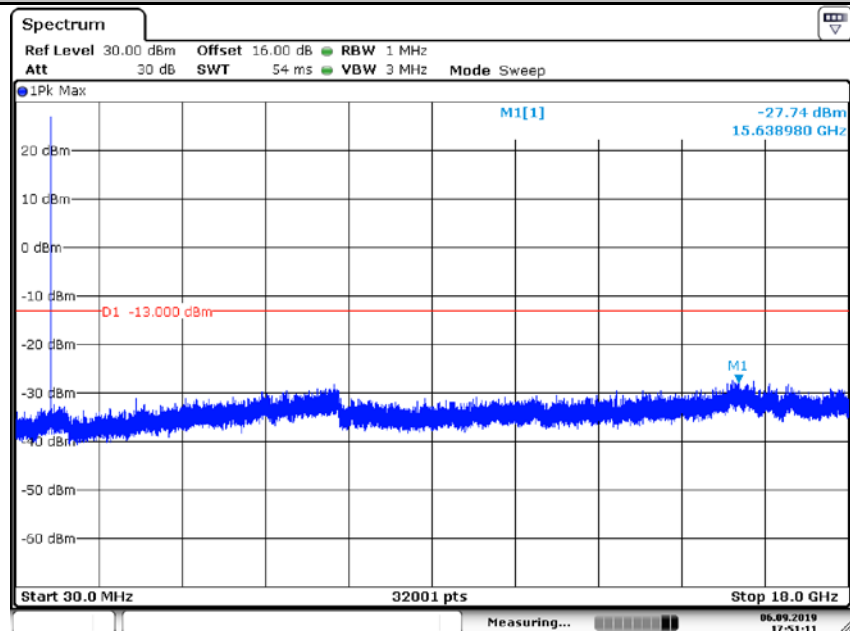
Test BW: 10MHz - Middle Channel - RB1#0

QPSK



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

16QAM

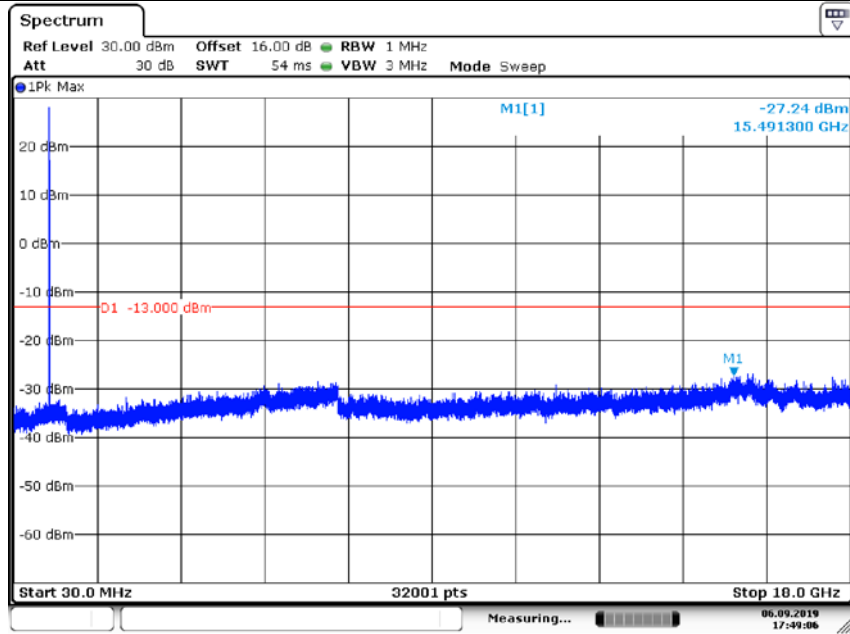


Date: 6.SEP.2019 17:51:11

LTE Band 14: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

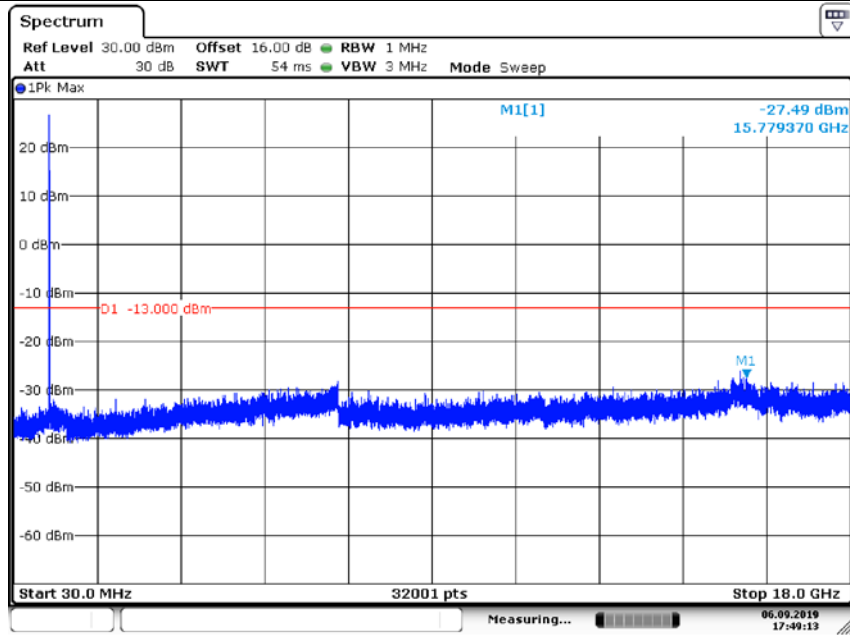
Test BW: 5MHz - Middle Channel - RB1#0

QPSK



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

16QAM

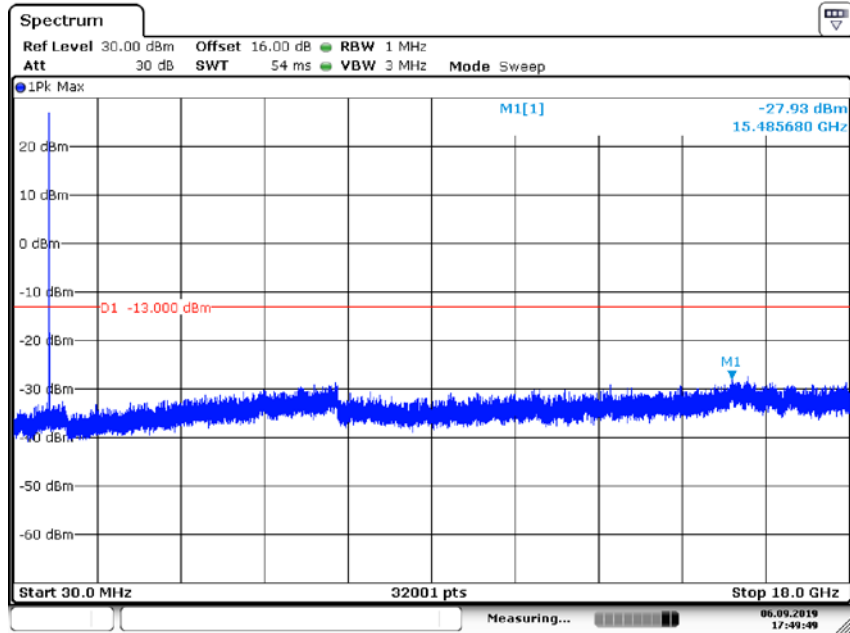


Date: 6.SEP.2019 17:49:14

LTE Band 14: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

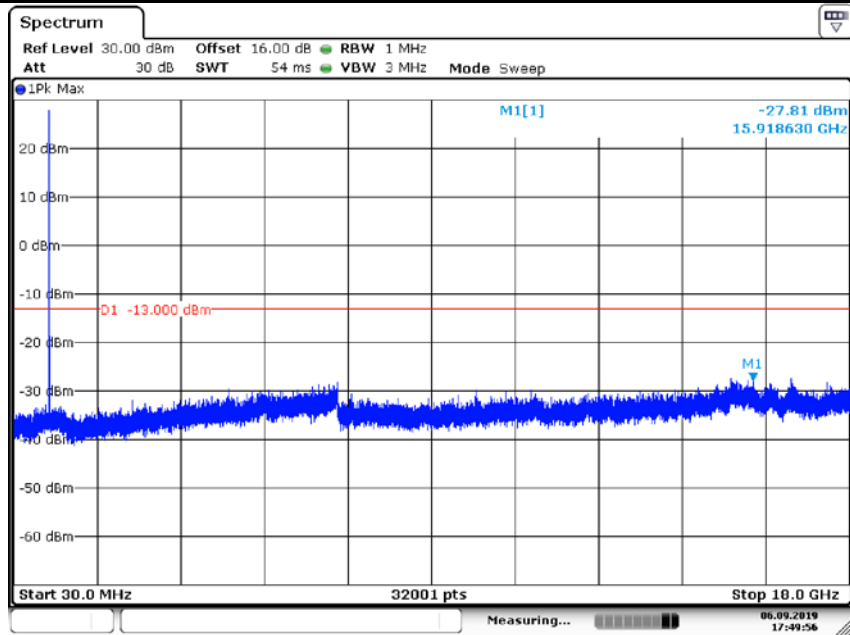
Test BW: 10MHz - Middle Channel - RB1#0

QPSK



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

16QAM

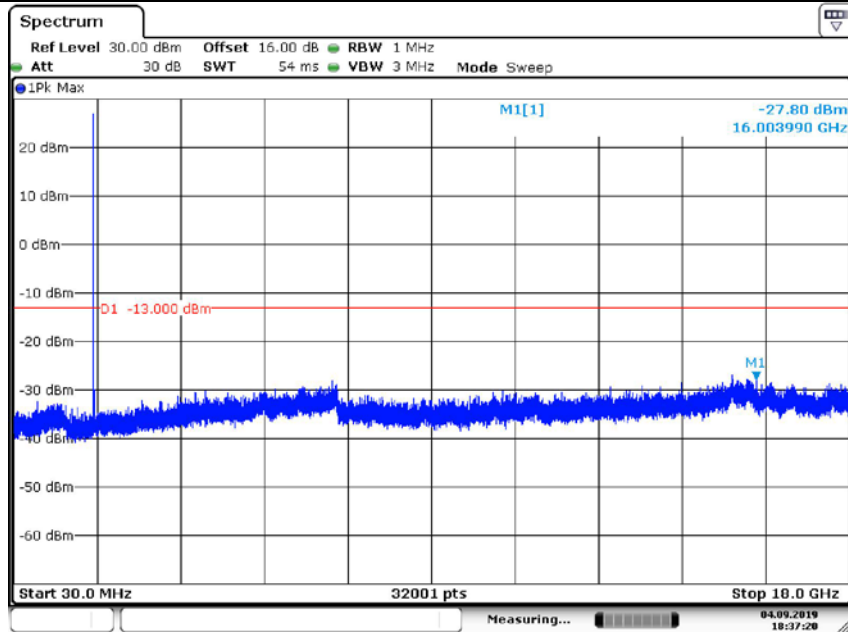


Date: 6.SEP.2019 17:49:56

LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

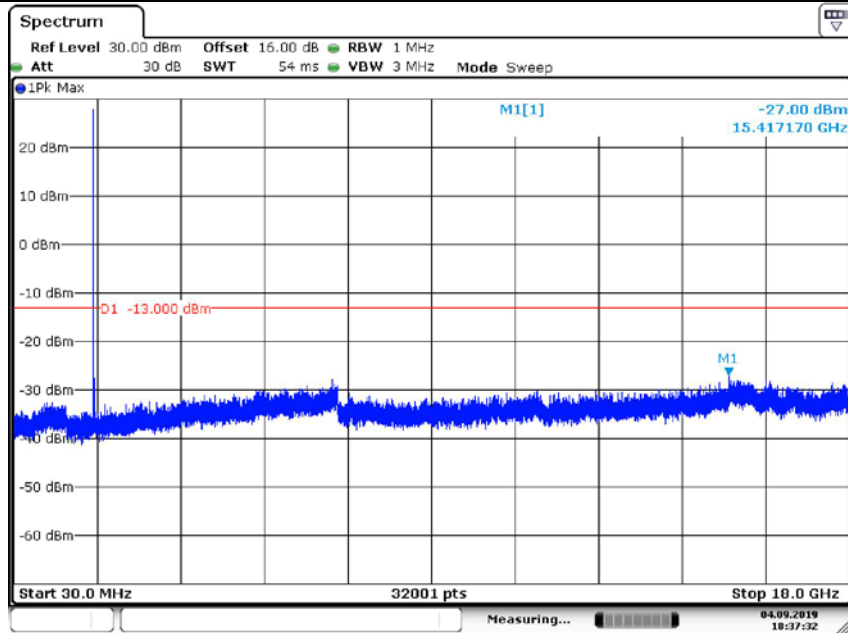
Test BW: 1.4MHz – Middle Channel - RB1#0

QPSK



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

16QAM

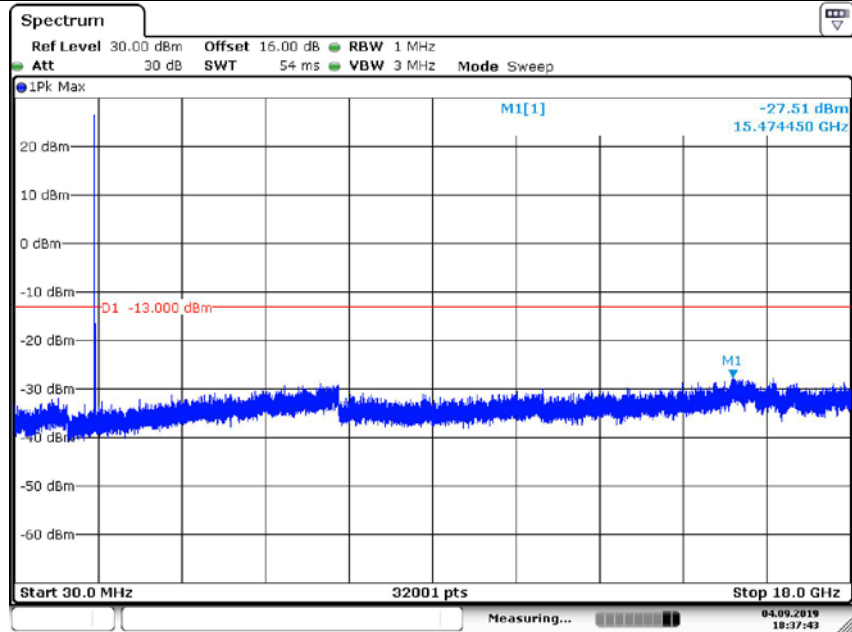


Date: 4.SEP.2019 18:37:31

LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

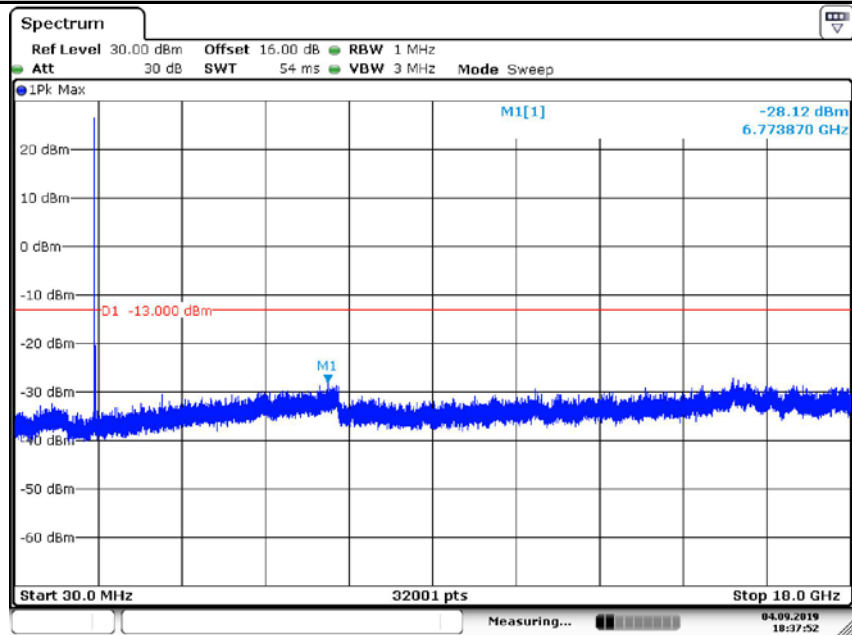
Test BW: 3MHz - Middle Channel - RB1#0

QPSK



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

16QAM

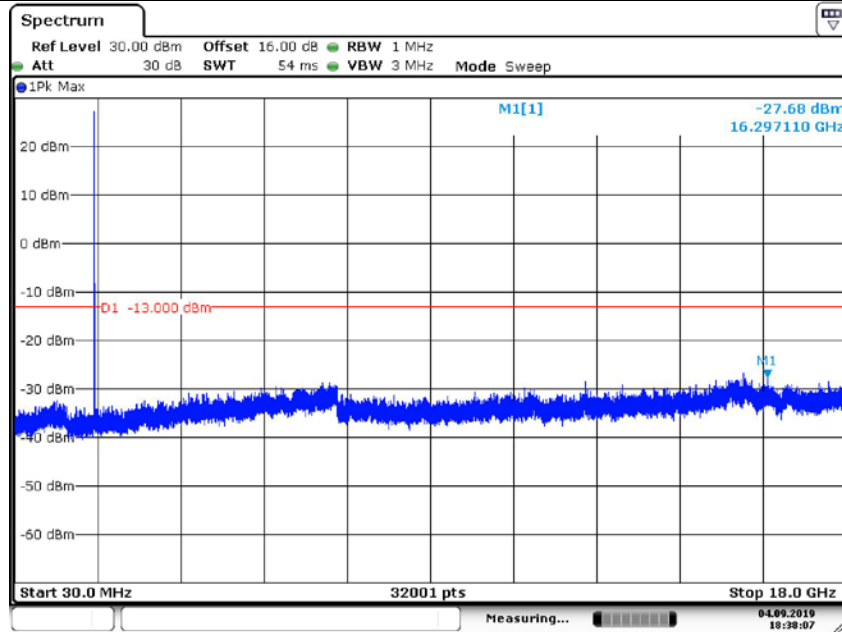


Date: 4.SEP.2019 18:37:52

LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

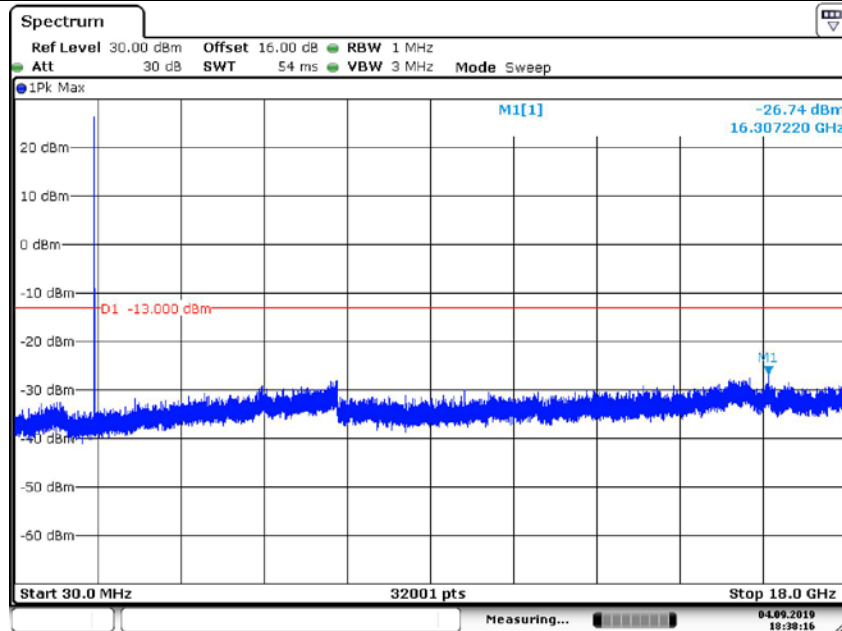
Test BW: 5MHz - Middle Channel - RB1#0

QPSK



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

16QAM

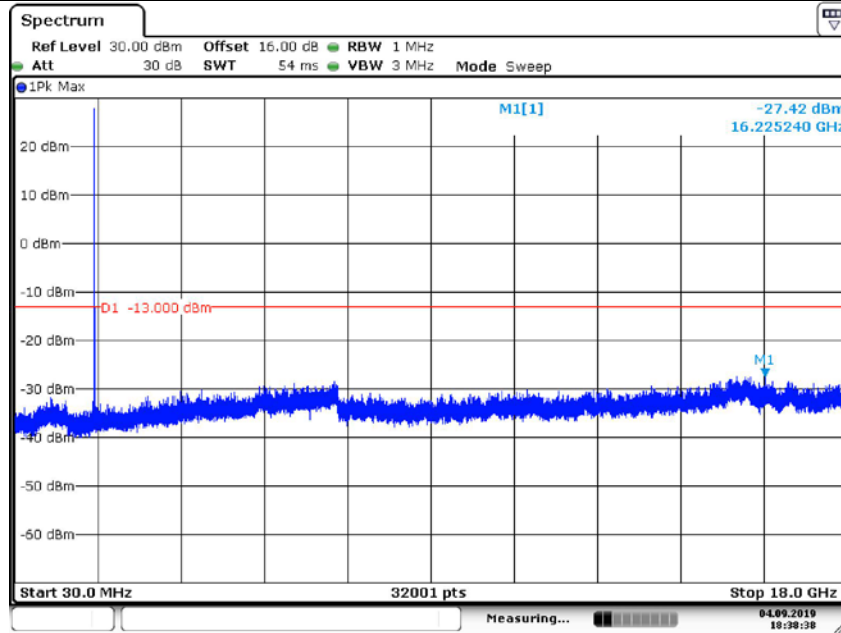


Date: 4.SEP.2019 18:38:16

LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

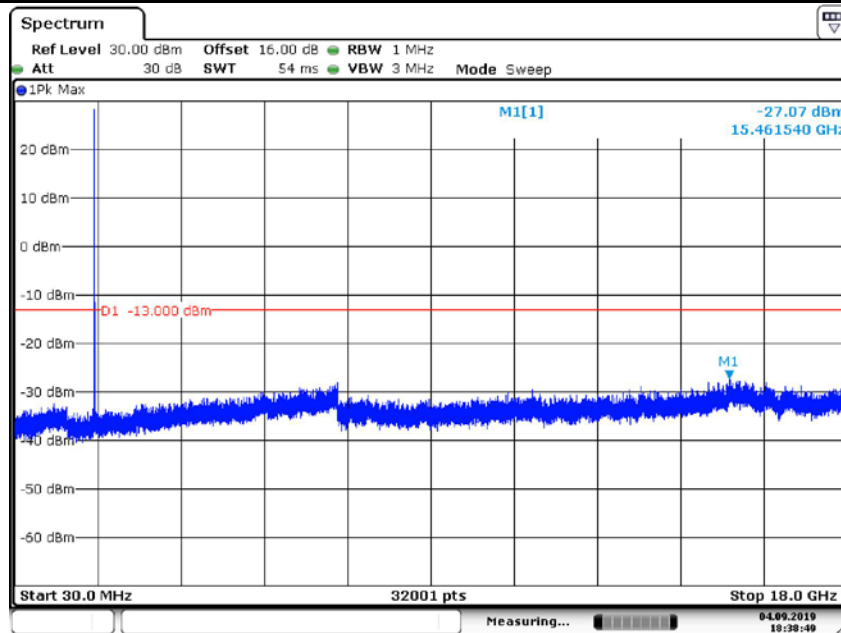
Test BW: 10MHz - Middle Channel - RB1#0

QPSK



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

16QAM

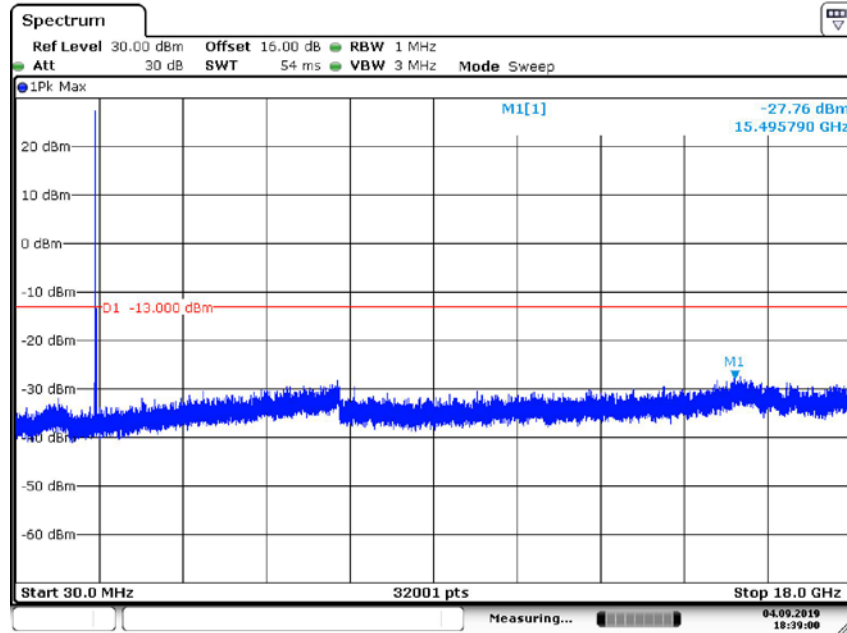


Date: 4.SEP.2019 18:38:49

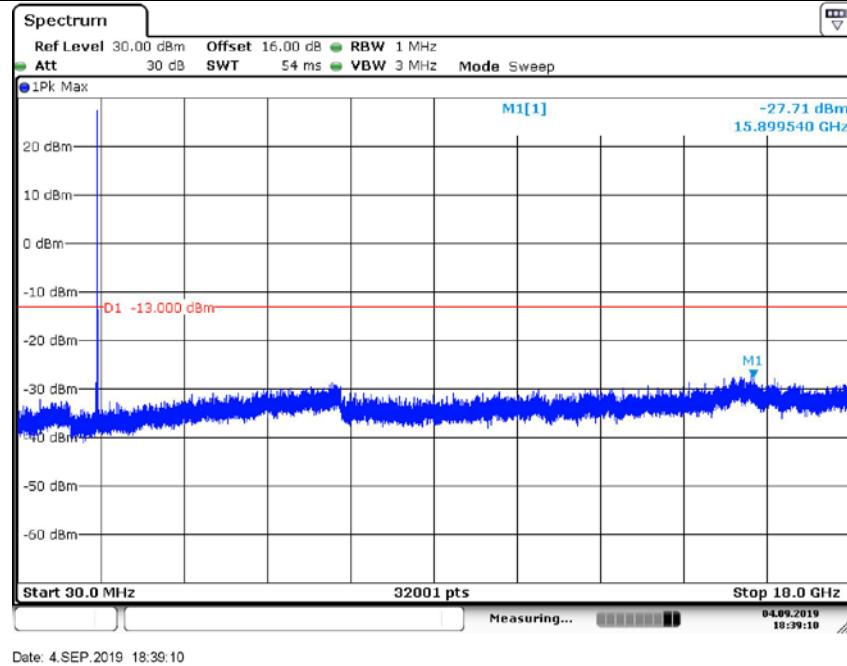
LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

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

QPSK



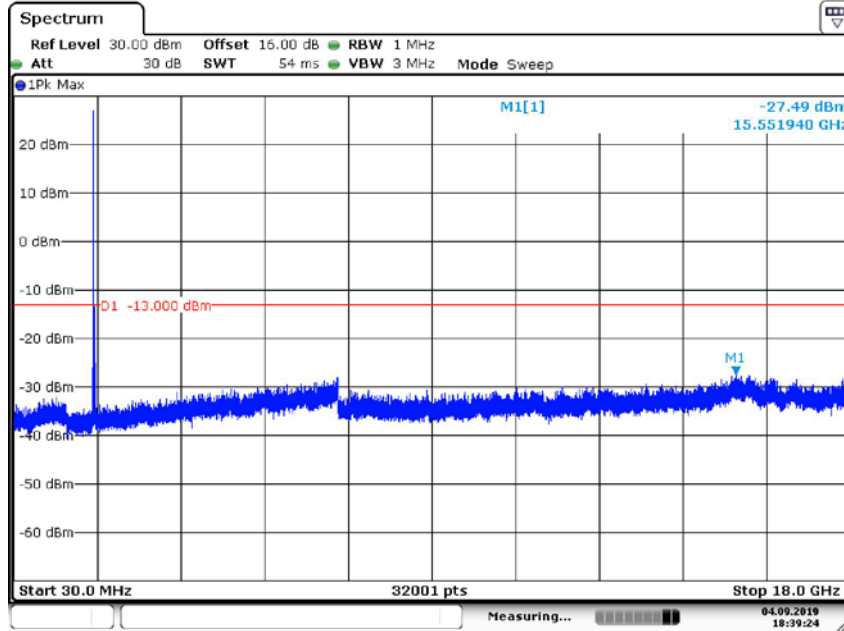
16QAM



LTE Band 66: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

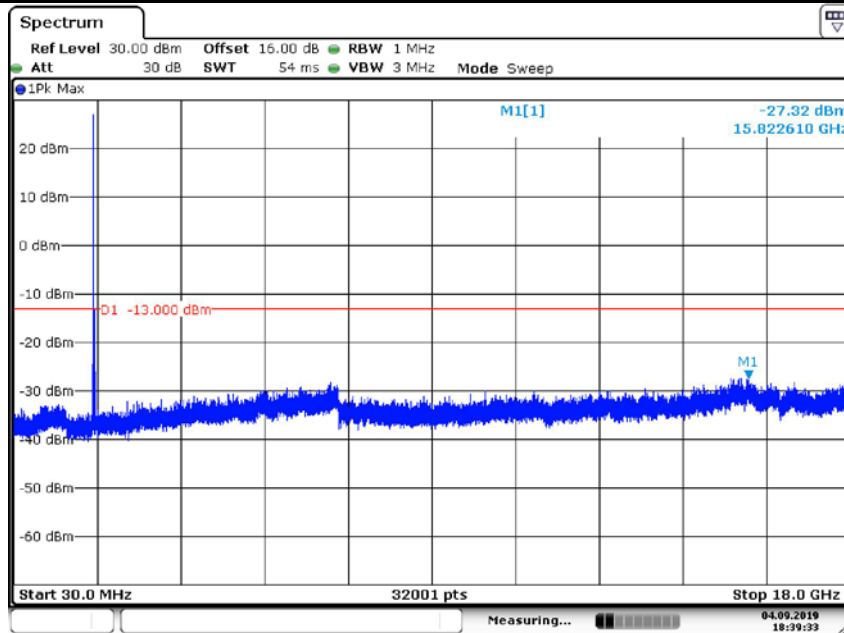
Test BW: 20MHz - Middle Channel - RB1#0

QPSK



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

16QAM

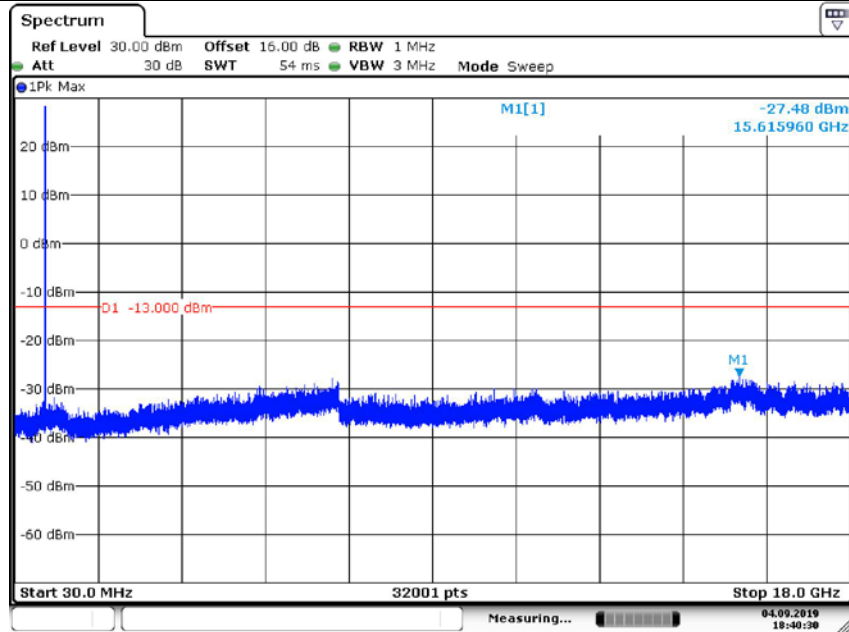


Date: 4.SEP.2019 18:39:33

LTE Band 71: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

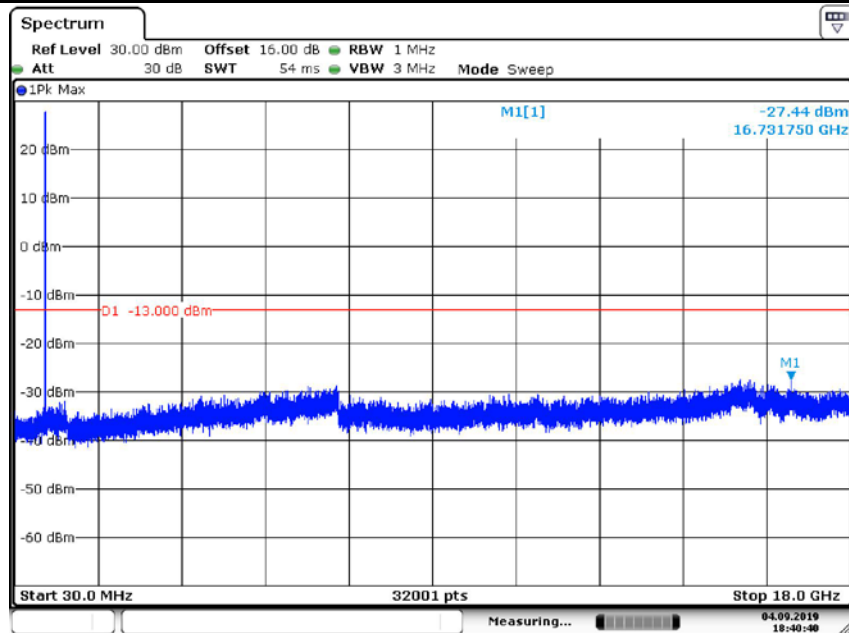
Test BW: 5MHz - Middle Channel - RB1#0

QPSK



Date: 4.SEP.2019 18:40:30

16QAM

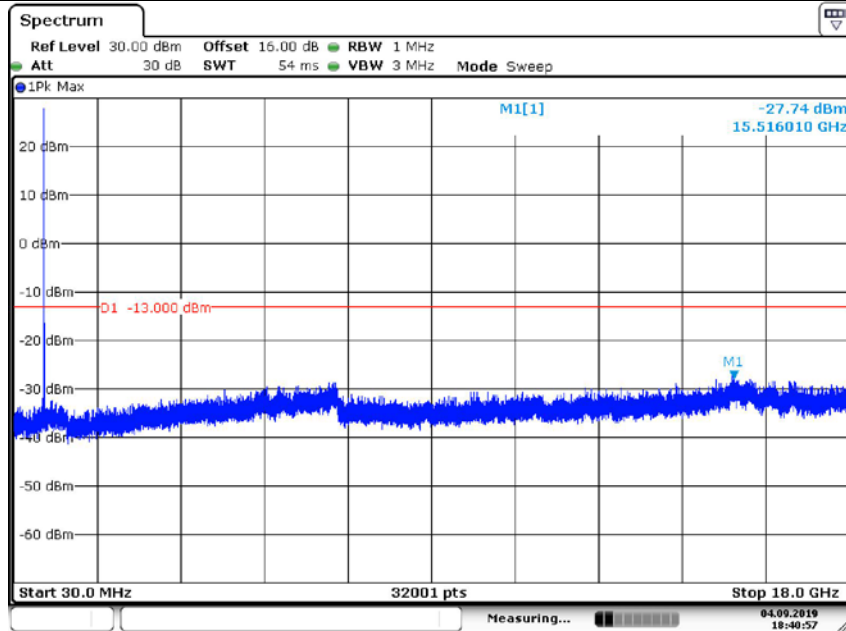


Date: 4.SEP.2019 18:40:41

LTE Band 71: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

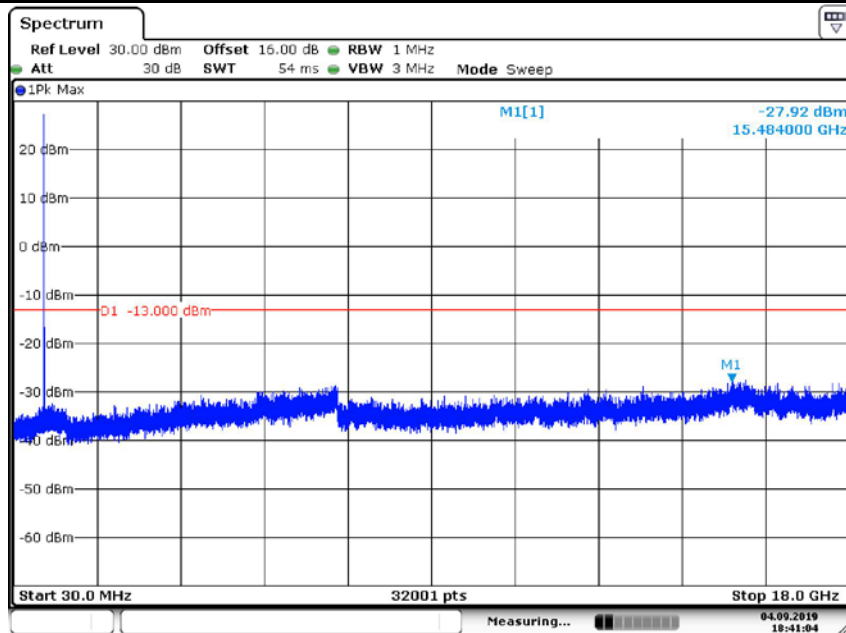
Test BW: 10MHz - Middle Channel - RB1#0

QPSK



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

16QAM

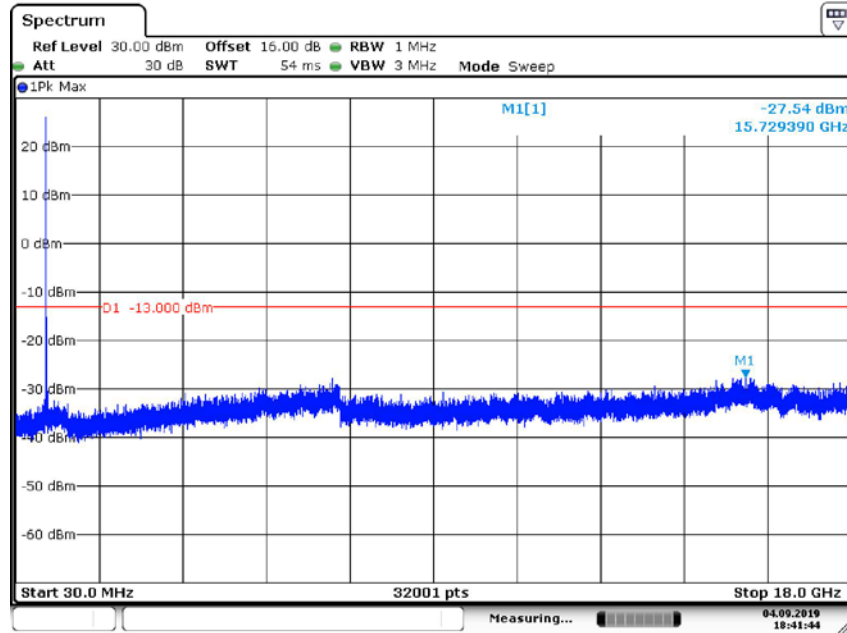


Date: 4.SEP.2019 18:41:05

LTE Band 71: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

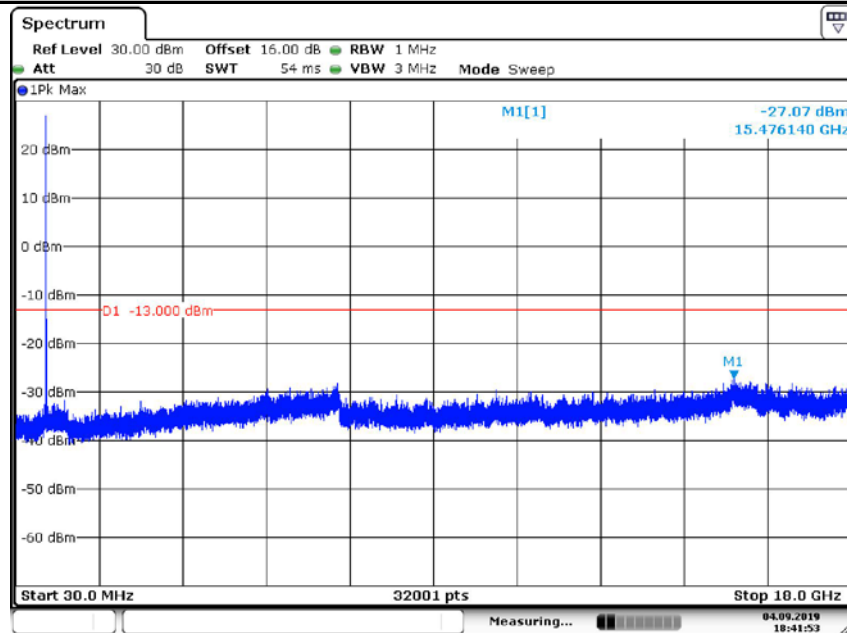
Test BW: 15MHz - Middle Channel - RB1#0

QPSK



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

16QAM

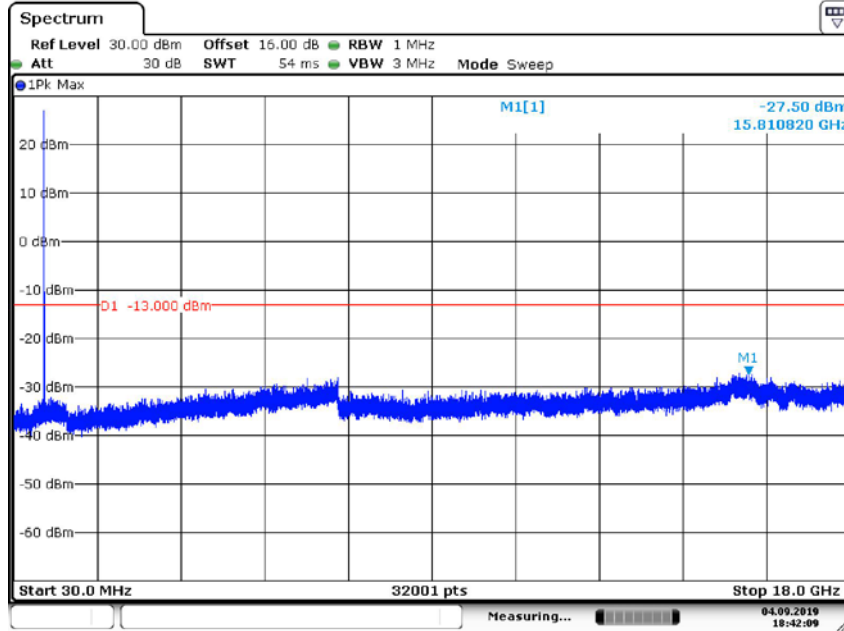


Date: 4.SEP.2019 18:41:53

LTE Band 71: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

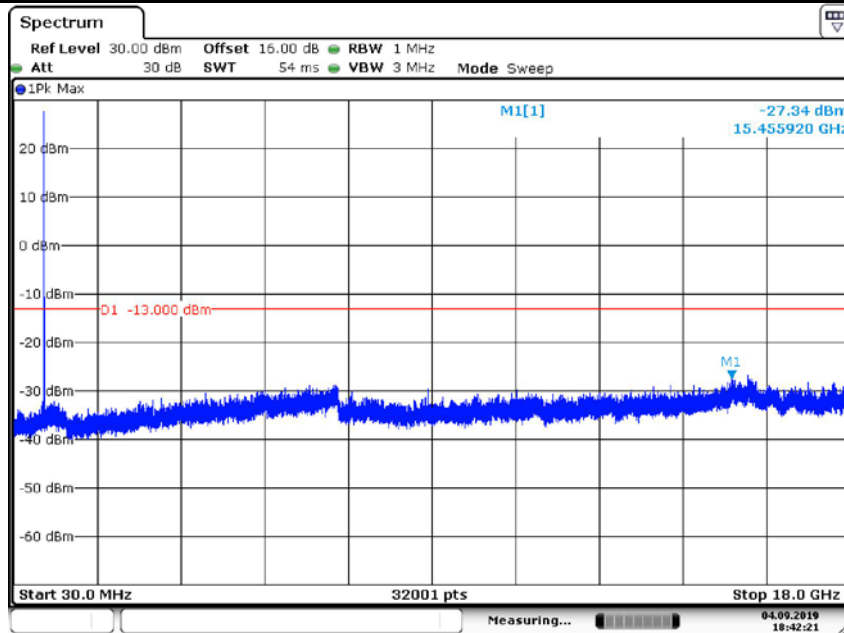
Test BW: 20MHz - Middle Channel - RB1#0

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℃	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 10th harmonics)

Temperature:	24℃	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℃	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 10th 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℃	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 10th harmonics)

Temperature:	24℃	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℃	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℃	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 10th harmonics)

Temperature:	24℃	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℃	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 10th 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℃	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 10th harmonics)

Temperature:	24℃	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℃	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 10th 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℃	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 10th harmonics)

Temperature:	24℃	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℃	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 - Preampl

(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
		VN	50	-0.77	-0.000416	± 2.5	PASS
	MCH	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
		VN	50	0.68	0.000367	± 2.5	PASS
	MCH	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
		VN	40	3.31	0.001761	± 2.5	PASS
		VN	50	2.75	0.001463	± 2.5	PASS
	HCH	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
		VN	50	-0.09	-0.000049	± 2.5	PASS
	MCH	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
		VN	40	2.42	0.001287	± 2.5	PASS
		VN	50	-0.91	-0.000484	± 2.5	PASS
	HCH	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
		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
16QAM	LCH	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
		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
	MCH	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
		VN	-30	-1.08	-0.000566	± 2.5	PASS
	HCH	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
		VN	50	3.17	0.001662	± 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
		VN	50	2.48	0.001337	± 2.5	PASS
	MCH	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
		VN	40	2.21	0.001176	± 2.5	PASS
		VN	50	3.59	0.001910	± 2.5	PASS
	HCH	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

		VH	TN	1.46	0.000786	± 2.5	PASS
	MCH	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
		VN	50	3.98	0.002117	± 2.5	PASS
	HCH	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
		VN	50	4.83	0.002539	± 2.5	PASS
16QAM	LCH	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
		VN	50	3.48	0.001873	± 2.5	PASS
	MCH	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