BAND EDGE COMPLIANCE LTE BAND 12 (INBAND)

XMit 2020.03.25.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-21

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

All limits were adjusted by a factor of [-10*log((N)] to account for the device operation as a N port MIMO transmitter, as per FCC KDB 622911.

For Bands 12 and 14, the adjustment factor is -10*log(4) = -6 dB. The Bands 12 and 14 adjusted limit is -19 dBm.

Per FCC section 27.53(g) and RSS 130 4.7.1, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the RRH may operate as a 4 port MIMO transmitter for Band 12.

FCC 27.53(g) and RSS 130 4.7.1 requires a ≥100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) requires a ≥30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

BAND EDGE COMPLIANCE LTE BAND 12 (INBAND)

element

XMit 2020.03.25.0

EUT:	**Airscale Base Transceiver Station Remote Radio Head Model AHLBBA**			**Work Order:**	**NOKI0013**
Serial Number:	**K9193514835**			**Date:**	**24-Mar-20**
Customer:	**Nokia Solutions and Networks**			**Temperature:**	**24.7 °C**
Attendees:	**Mitch Hill, John Rattanavong**			**Humidity:**	**36.3% RH**
Project:	**None**			**Barometric Pres.:**	**1025 mbar**
Tested by:	**Brandon Hobbs**	**Power:**	**54 VDC**	**Job Site:**	**TX03**

TEST SPECIFICATIONS	**Test Method**
FCC 27:2020	ANSI C63.26:2015
RSS-130:2019	RSS-130:2019

COMMENTS

All measurement path losses were accounted for in the reference level offest including any attenuators, filters and DC blocks. The hottest port per power amplifier (PA) was used for testing. The worst case port was determined in the original client provided test report. The carrier power was set to maximum for all testing.

DEVIATIONS FROM TEST STANDARD

None

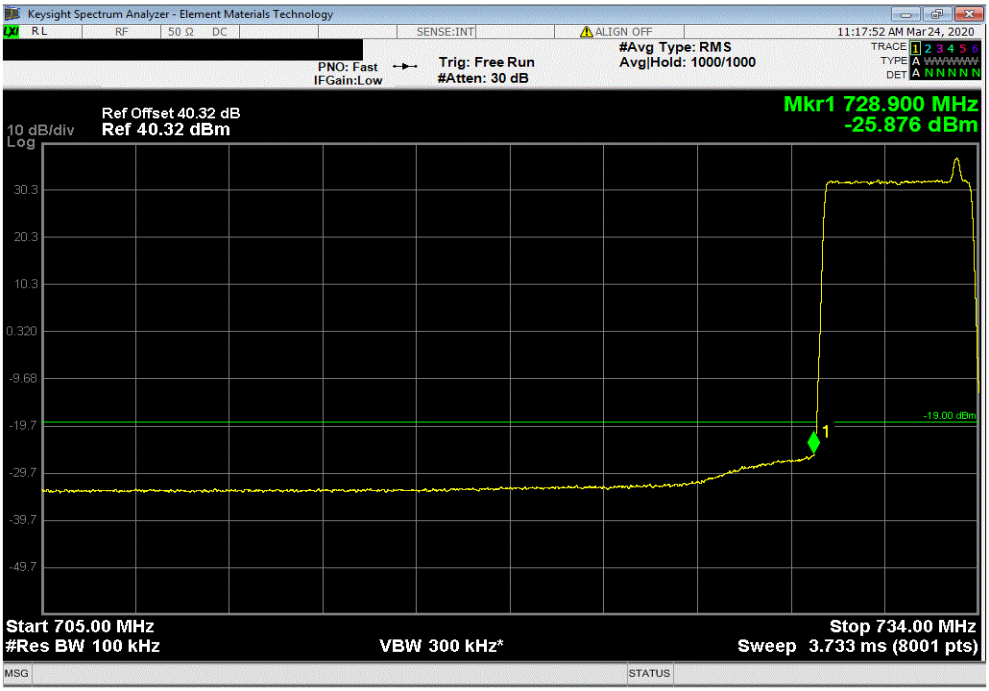
Configuration #	**2,6**	*Signature*

	Value (dBm)	Limit (dBm)	Result
Band 12, 729 MHz -745 MHz, LTE			
Port 1			
5 MHz Bandwidth			
QPSK Modulation, Low Channel, 731.5 MHz			
Range 1	-25.9	-19	Pass
Range 2	-28.2	-19	Pass
QPSK Modulation, High Channel, 742.5 MHz			
Range 1	-24.1	-19	Pass
Range 2	-27.3	-19	Pass
10 MHz Bandwidth			
QPSK Modulation, Low Channel, 734 MHz			
Range 1	-27.3	-19	Pass
Range 2	-31.3	-19	Pass
QPSK Modulation, High Channel, 740 MHz			
Range 1	-27.0	-19	Pass
Range 2	-30.8	-19	Pass
Port 2			
5 MHz Bandwidth			
QPSK Modulation, Low Channel, 731.5 MHz			
Range 1	-24.2	-19	Pass
Range 2	-24.3	-19	Pass
QPSK Modulation, High Channel, 742.5 MHz			
Range 1	-24.8	-19	Pass
Range 2	-24.4	-19	Pass
10 MHz Bandwidth			
QPSK Modulation, Low Channel, 734 MHz			
Range 1	-24.5	-19	Pass
Range 2	-26.9	-19	Pass
QPSK Modulation, High Channel, 740 MHz			
Range 1	-24.9	-19	Pass
Range 2	-26.8	-19	Pass

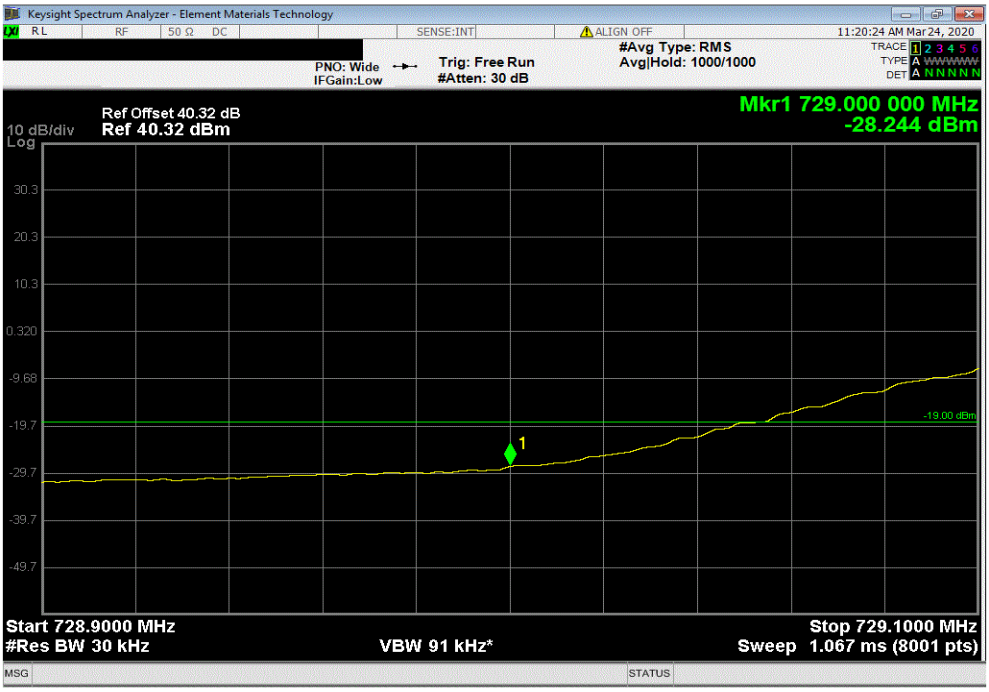
BAND EDGE COMPLIANCE LTE BAND 12 (INBAND)

XMit 2020.03.25.0

Band 12, 729 MHz -745 MHz, LTE, Port 1, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz, Range 1						
				Value (dBm)	Limit (dBm)	Result
				-25.876	-19	Pass



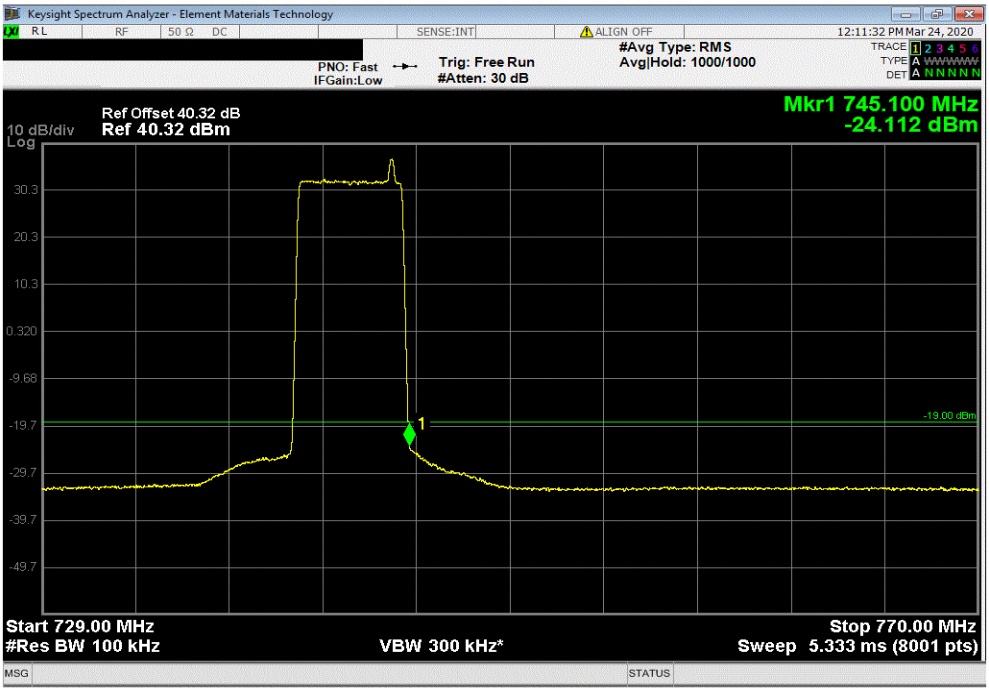
Band 12, 729 MHz -745 MHz, LTE, Port 1, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz, Range 2						
				Value (dBm)	Limit (dBm)	Result
				-28.244	-19	Pass



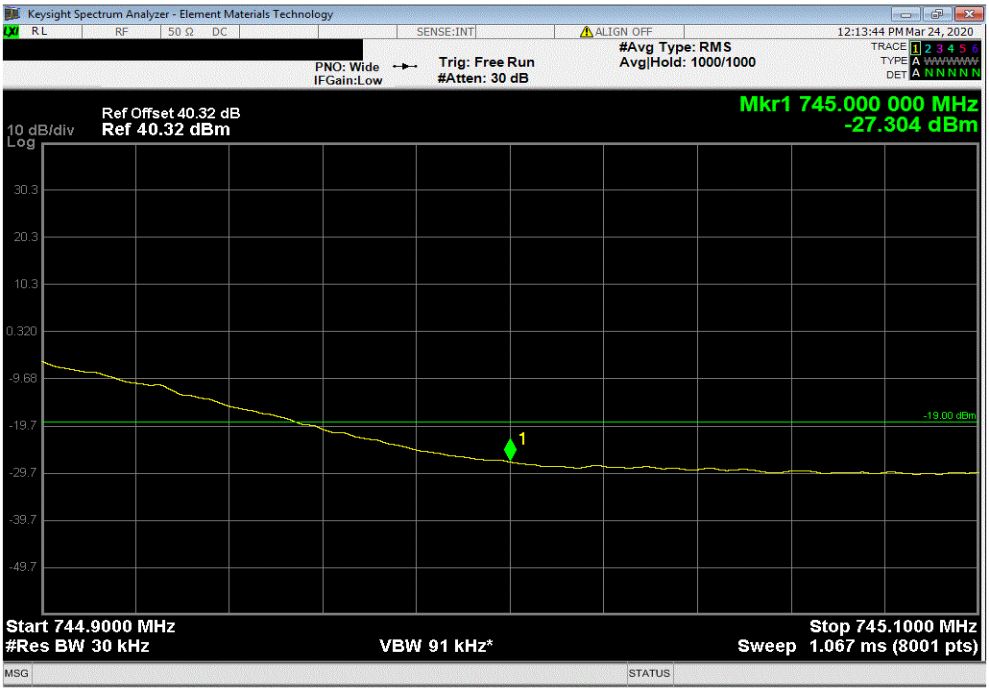
BAND EDGE COMPLIANCE LTE BAND 12 (INBAND)

XMit 2020.03.25.0

Band 12, 729 MHz -745 MHz, LTE, Port 1, 5 MHz Bandwidth, QPSK Modulation, High Channel, 742.5 MHz, Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.112	-19	Pass



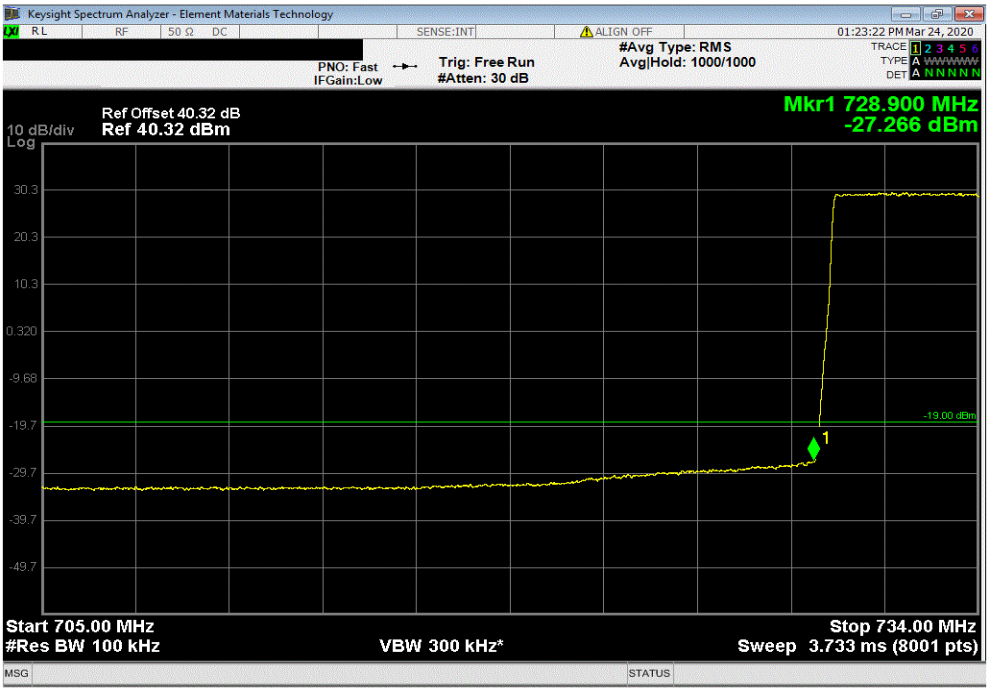
Band 12, 729 MHz -745 MHz, LTE, Port 1, 5 MHz Bandwidth, QPSK Modulation, High Channel, 742.5 MHz, Range 2						
				Value (dBm)	Limit (dBm)	Result
				-27.304	-19	Pass



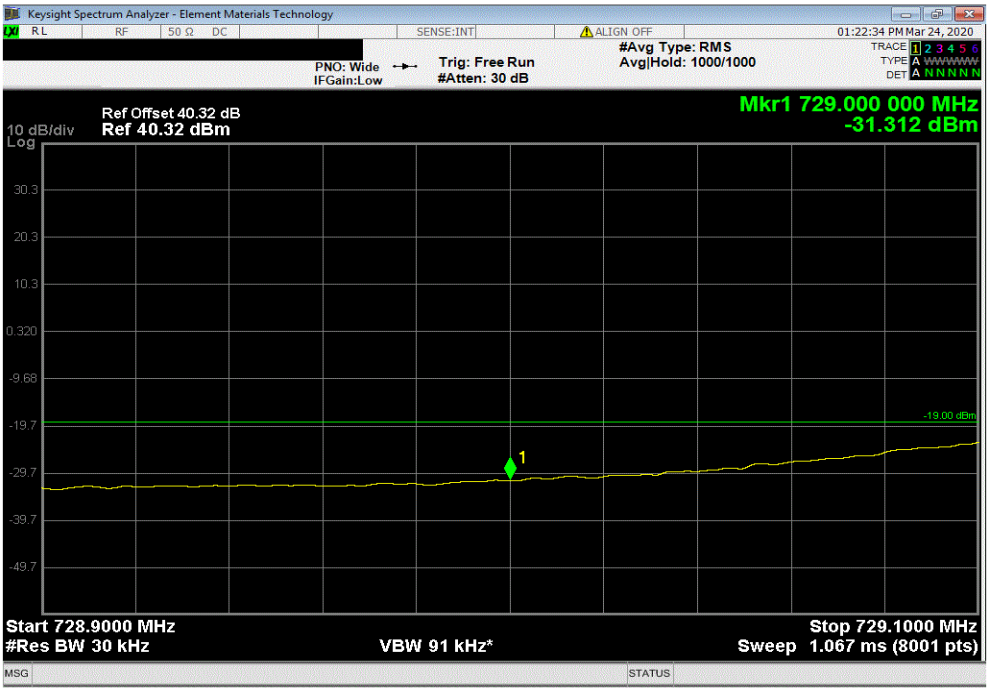
BAND EDGE COMPLIANCE LTE BAND 12 (INBAND)

XMit 2020.03.25.0

Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 734 MHz, Range 1						
				Value (dBm)	Limit (dBm)	Result
				-27.266	-19	Pass



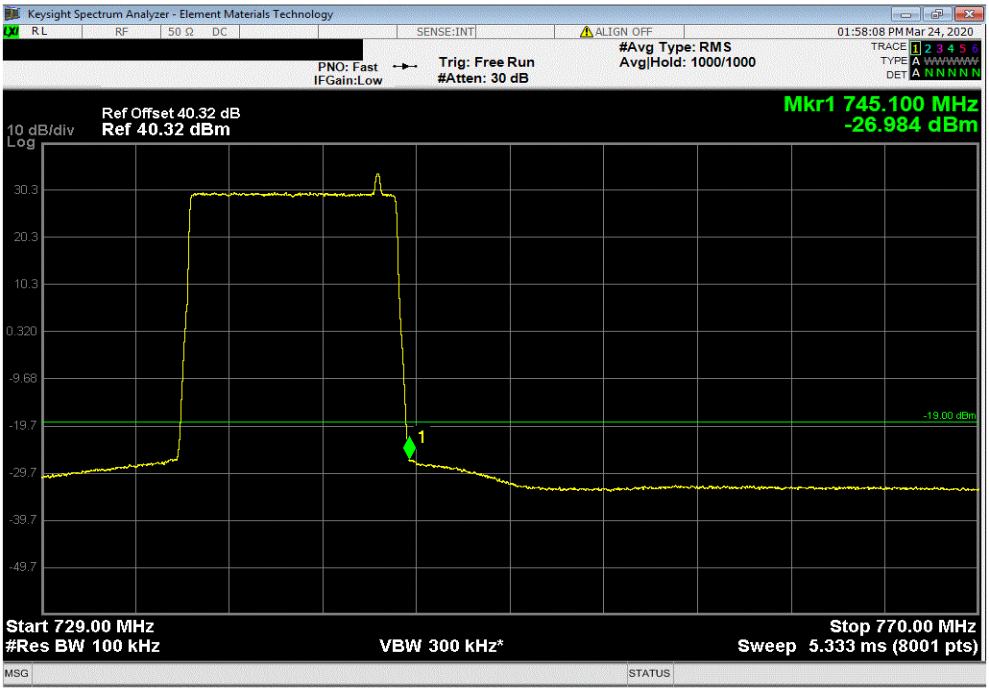
Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 734 MHz, Range 2						
				Value (dBm)	Limit (dBm)	Result
				-31.312	-19	Pass



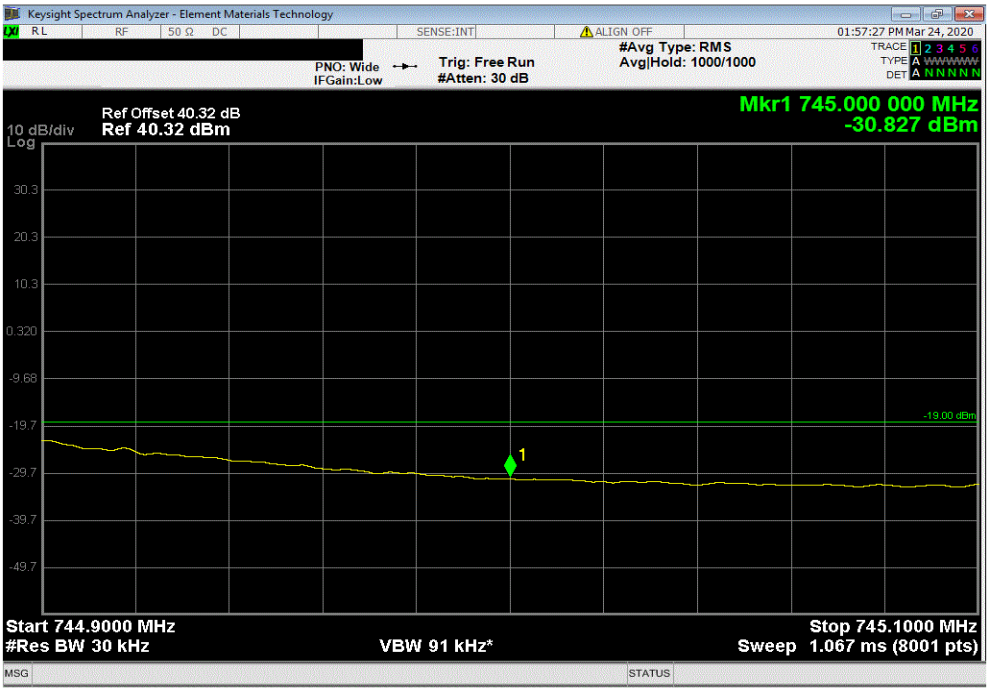
BAND EDGE COMPLIANCE LTE BAND 12 (INBAND)

XMit 2020.03.25.0

Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, High Channel, 740 MHz, Range 1						
				Value (dBm)	Limit (dBm)	Result
				-26.984	-19	Pass



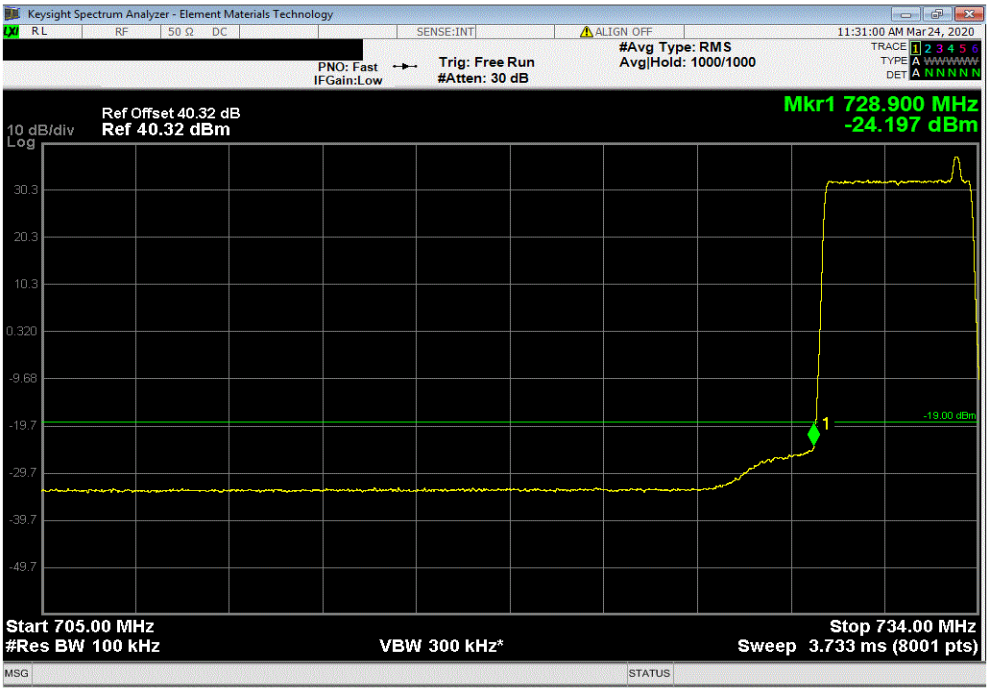
Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, High Channel, 740 MHz, Range 2						
				Value (dBm)	Limit (dBm)	Result
				-30.827	-19	Pass



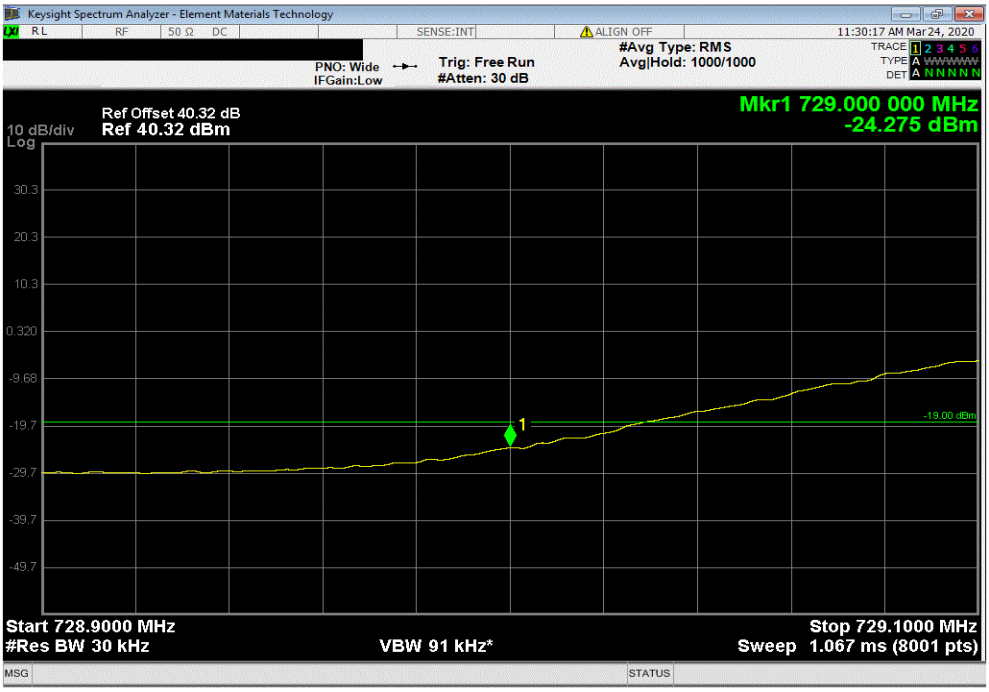
BAND EDGE COMPLIANCE LTE BAND 12 (INBAND)

XMit 2020.03.25.0

Band 12, 729 MHz -745 MHz, LTE, Port 2, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz, Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.197	-19	Pass



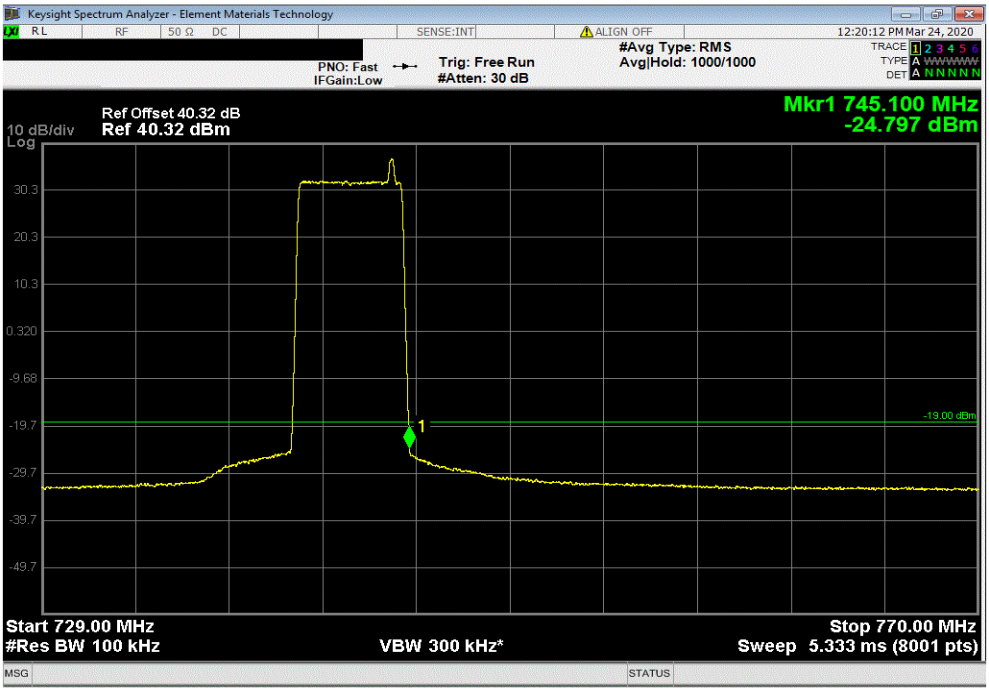
Band 12, 729 MHz -745 MHz, LTE, Port 2, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 731.5 MHz, Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.275	-19	Pass



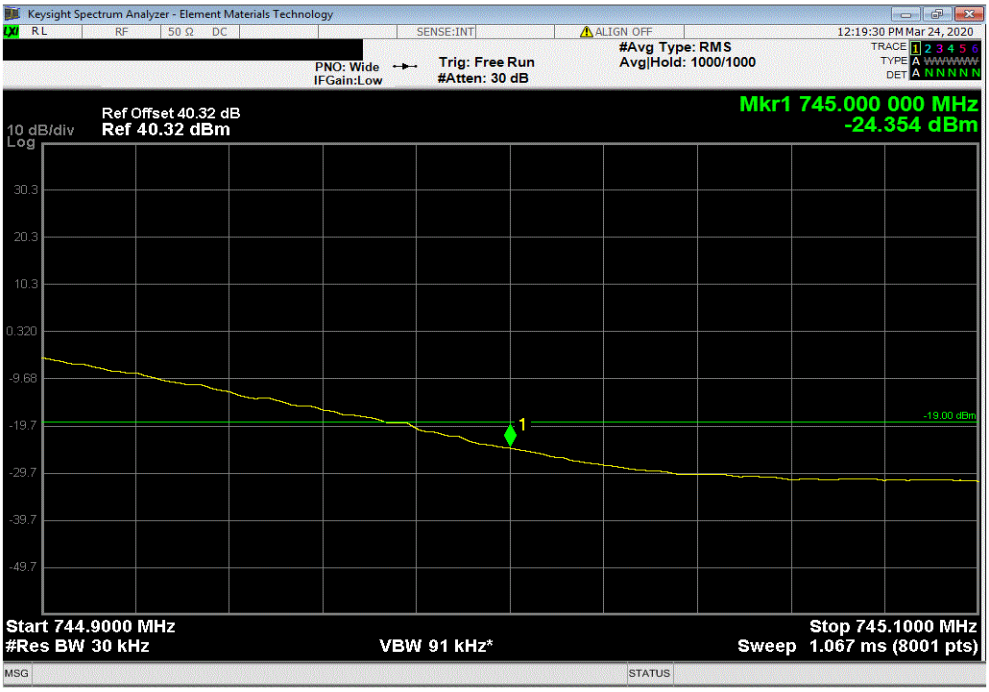
BAND EDGE COMPLIANCE LTE BAND 12 (INBAND)

XMit 2020.03.25.0

Band 12, 729 MHz -745 MHz, LTE, Port 2, 5 MHz Bandwidth, QPSK Modulation, High Channel, 742.5 MHz, Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.797	-19	Pass



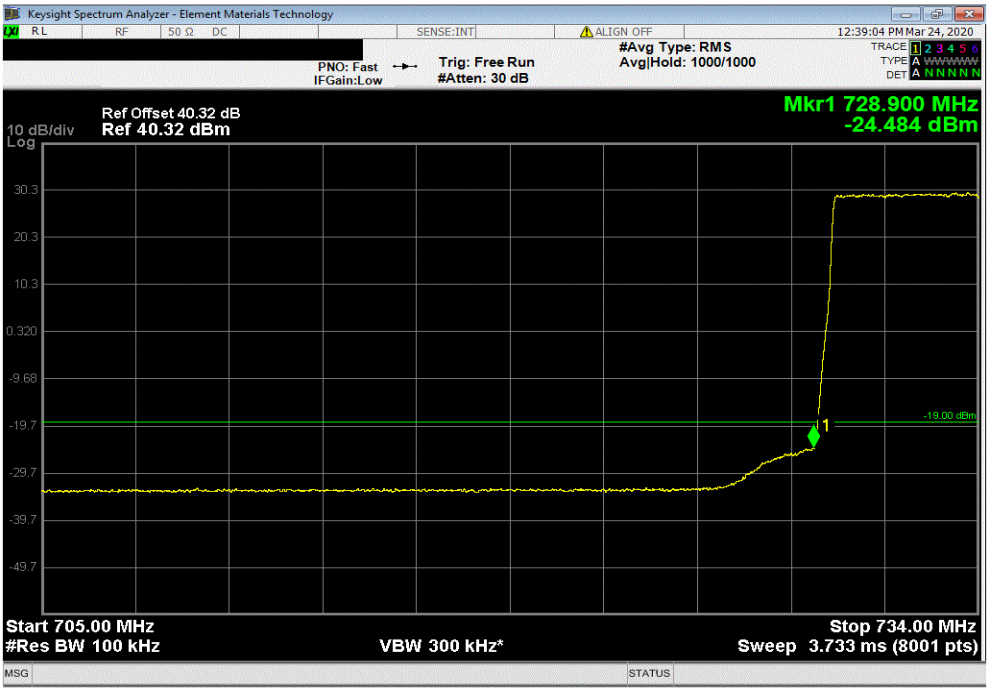
Band 12, 729 MHz -745 MHz, LTE, Port 2, 5 MHz Bandwidth, QPSK Modulation, High Channel, 742.5 MHz, Range 2						
				Value (dBm)	Limit (dBm)	Result
				-24.354	-19	Pass



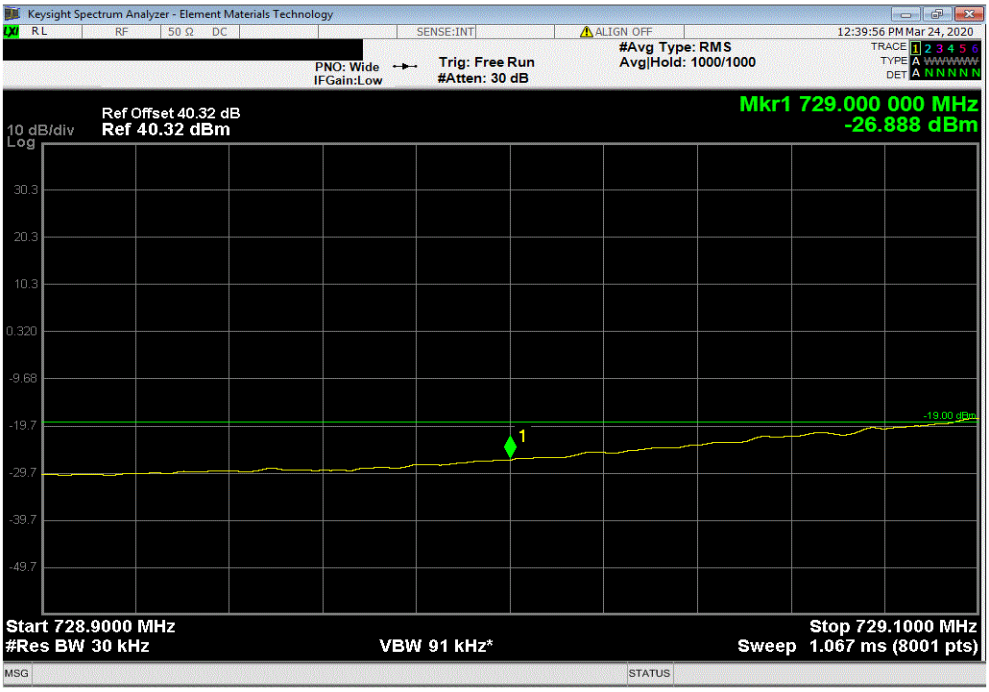
BAND EDGE COMPLIANCE LTE BAND 12 (INBAND)

XMit 2020.03.25.0

Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 734 MHz, Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.484	-19	Pass



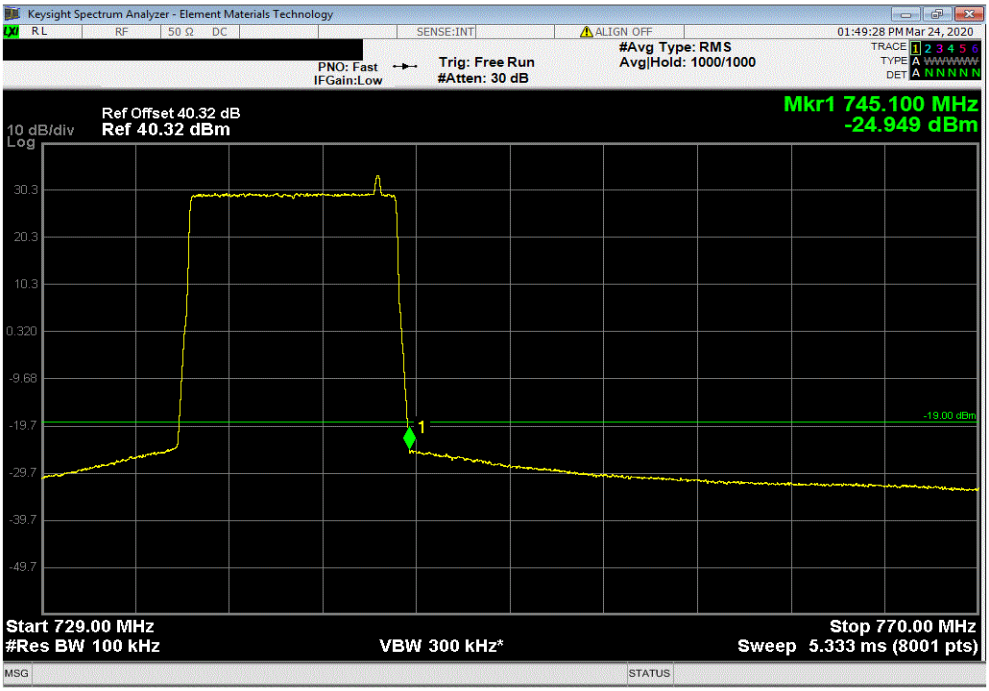
Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 734 MHz, Range 2						
				Value (dBm)	Limit (dBm)	Result
				-26.888	-19	Pass



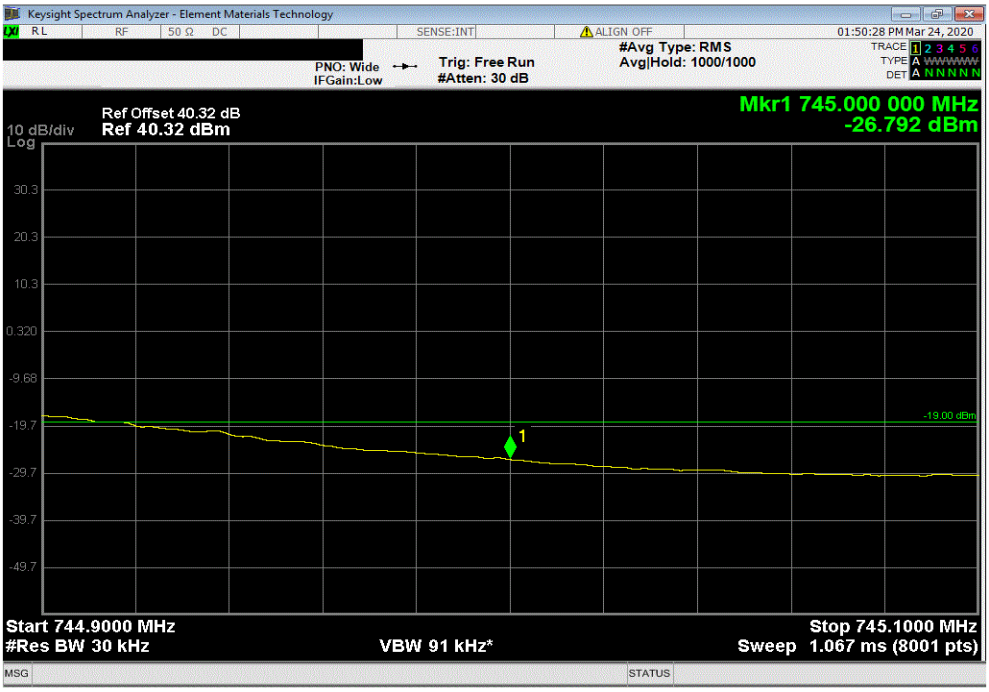
BAND EDGE COMPLIANCE LTE BAND 12 (INBAND)

XMit 2020.03.25.0

Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, High Channel, 740 MHz, Range 1						
				Value (dBm)	Limit (dBm)	Result
				-24.949	-19	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, High Channel, 740 MHz, Range 2						
				Value (dBm)	Limit (dBm)	Result
				-26.792	-19	Pass



SPURIOUS CONDUCTED EMISSIONS LTE BAND 14 (GUARDBAND)

XMit 2019.09.05

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-21
Generator - Signal	Agilent	N5173B	TIW	5-Jul-17	5-Jul-20

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to the middle channel. The EUT was transmitting at the data rate(s) and bandwidths listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

All limits were adjusted by a factor of [-10*log(N)] dB to account for the device operation as a N port MIMO transmitter, as per FCC KDB 622911.

For Bands 12 and 14, the limit adjustment is -10*log(4) = -6 dB.
For Band 29, the limit adjustment is -10*log(2) = -3 dB.

Over the frequency range of 150kHz-20MHz, a RBW of 10 kHz was used; therefore, an additional limit adjustment factor of 10 dB was applied [10*log(10/1)].

The limit for the 9kHz to 150kHz frequency range was adjusted to -39dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 100kHz [i.e.: -39dBm = -19dBm -10log(100kHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -29dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 100kHz [i.e.: -29dBm = -19dBm -10log(100kHz/10kHz)].

Per section 90.543(e)(3&5) and RSS 140 4.4 the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the RRH may operate as a 4 port MIMO transmitter for Band 14. FCC 90.543(e)(5) requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range.

Per section 90.543(f) and RSS Gen 6.13, for the frequency range 1559-1610 MHz the EIRP limit is -70dBW/MHz for wideband signals and -80dBW for discrete emissions of bandwidths less than 700Hz. This equates to an EIRP of -40dBm/MHz for wideband emissions and -50dBm/MHz for discrete emissions. The limit is adjusted to -46 dBm [-40 dBm -10 log (4)] for wideband signals and -56dBm [-50 dBm -10 log (4)] for discrete emissions per FCC KDB 662911D01 v02r01 because the RRH may operate as a 4 port MIMO transmitter.

Per FCC 2.1057(a)(1) and RSS Gen 6.13, the upper level of measurement is the 10th harmonic of the highest fundamental frequency. As such, the upper level of the measurement is approximately 8 GHz (763 MHz * 10).

SPURIOUS CONDUCTED EMISSIONS LTE BAND 14 (GUARDBAND)

element

XMit 2019.09.05

EUT:	Airscale Base Transceiver Station Remote Radio Head Model AHLBBA			**Work Order:**	NOKI0013
Serial Number:	K9193514835			**Date:**	25-Mar-20
Customer:	Nokia Solutions and Networks			**Temperature:**	22.5 °C
Attendees:	Mitch Hill, John Rattanavong			**Humidity:**	50.8% RH
Project:	None			**Barometric Pres.:**	1008 mbar
Tested by:	Brandon Hobbs	**Power:**	54 VDC	**Job Site:**	TX03

TEST SPECIFICATIONS	Test Method
FCC 90I:2020	ANSI C63.26:2015
RSS-140:2018, RSS-Gen:2019	RSS-140:2018, RSS-Gen:2019

COMMENTS

All measurement path losses were accounted for in the reference level offest including any attenuators, filters and DC blocks. The hottest port per power amplifier (PA) was used for testing. The worst case port was determined in the original client provided test report. The carrier power was set to maximum for all testing.

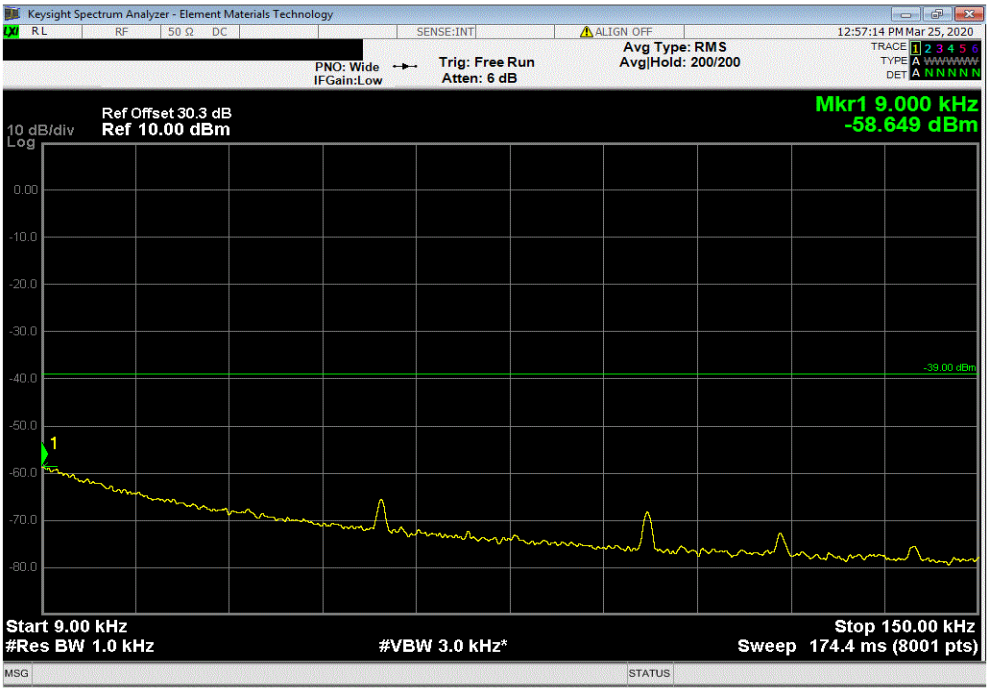
DEVIATIONS FROM TEST STANDARD

None

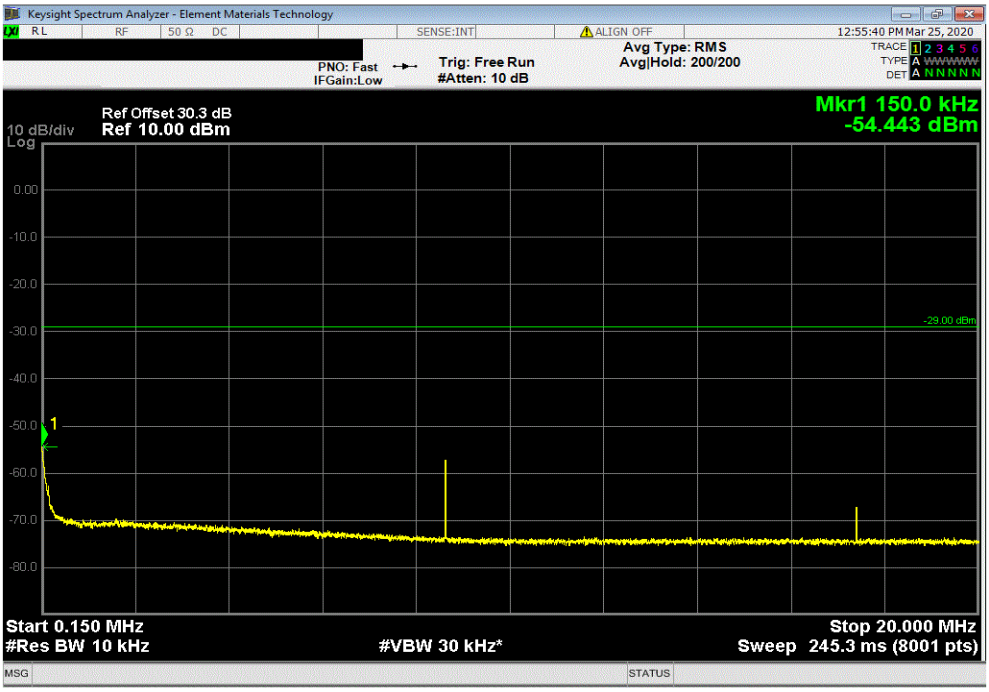
Configuration #	1,2,3,5,6,7	Signature

	Value (dBm)	Limit (dBm)	Result
Band 14, 763 MHz, LTE			
Port 1			
10 MHz Bandwidth			
QPSK Modulation, Mid Channel			
Range 1, 9 kHz - 150 kHz	-58.649	-39	Pass
Range 2, 150 kHz - 20 MHz	-54.443	-29	Pass
Range 3, 20 MHz - 600 MHz	-35.32	-19	Pass
Range 4, 600 MHz - 800 MHz	-32.486	-19	Pass
Range 5, 800 MHz - 1200 MHz	-36.381	-19	Pass
Range 6, 1200 MHz - 8000 MHz	-37.226	-19	Pass
Range 7, 1559 MHz - 1610 MHz	-64.291	-46	Pass
Port 2			
10 MHz Bandwidth			
QPSK Modulation, Mid Channel			
Range 1, 9 kHz - 150 kHz	-57.922	-39	Pass
Range 2, 150 kHz - 20 MHz	-53.897	-29	Pass
Range 3, 20 MHz - 600 MHz	-35.553	-19	Pass
Range 4, 600 MHz - 800 MHz	-33.303	-19	Pass
Range 5, 800 MHz - 1200 MHz	-36.94	-19	Pass
Range 6, 1200 MHz - 8000 MHz	-37.332	-19	Pass
Range 7, 1559 MHz - 1610 MHz	-64.155	-46	Pass

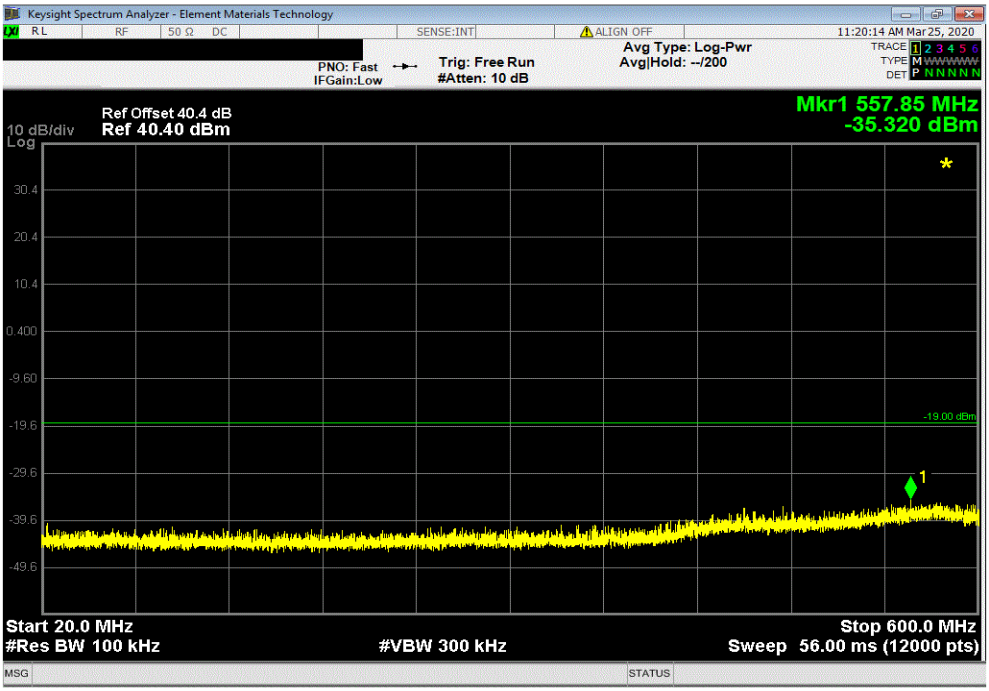
Band 14, 763 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 1, 9 kHz - 150 kHz						
				Value (dBm)	Limit (dBm)	Result
				-58.649	-39	Pass



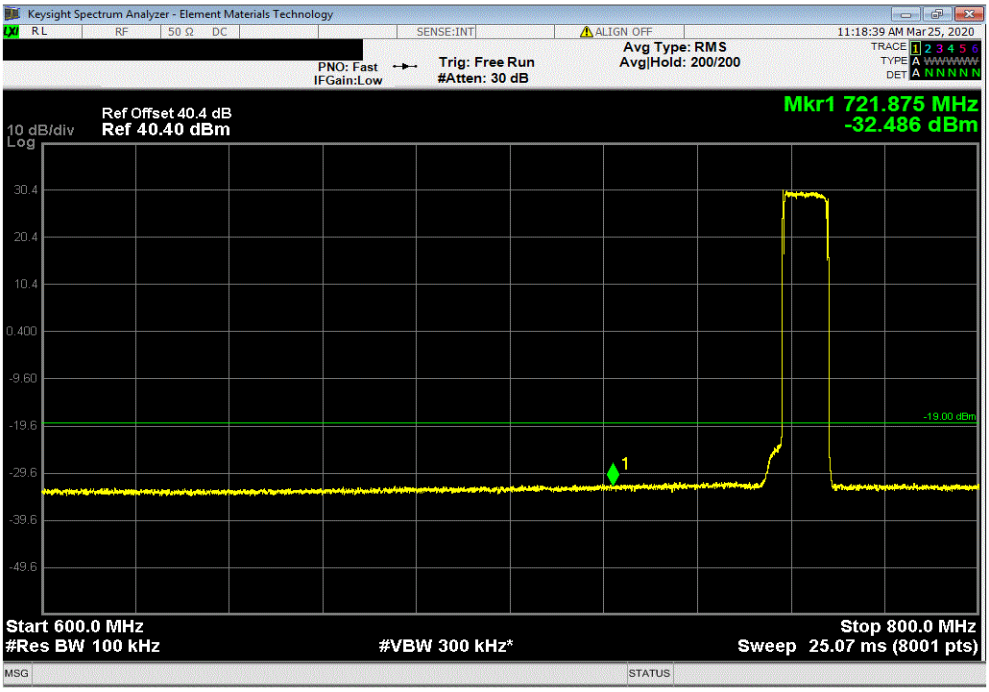
Band 14, 763 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 2, 150 kHz - 20 MHz						
				Value (dBm)	Limit (dBm)	Result
				-54.443	-29	Pass



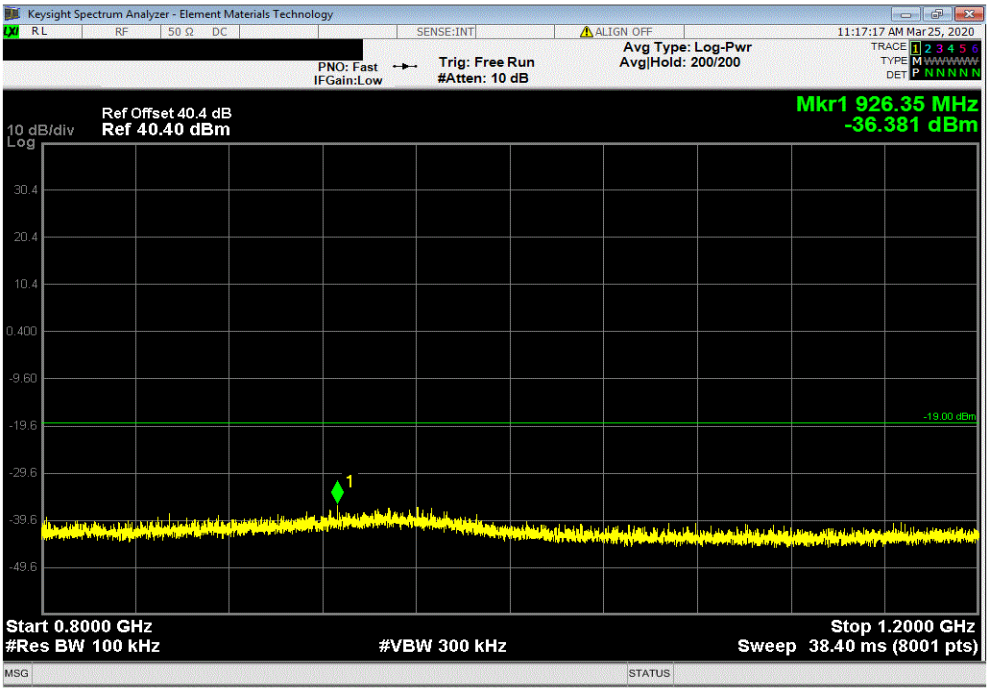
Band 14, 763 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 3, 20 MHz - 600 MHz						
				Value (dBm)	Limit (dBm)	Result
				-35.32	-19	Pass



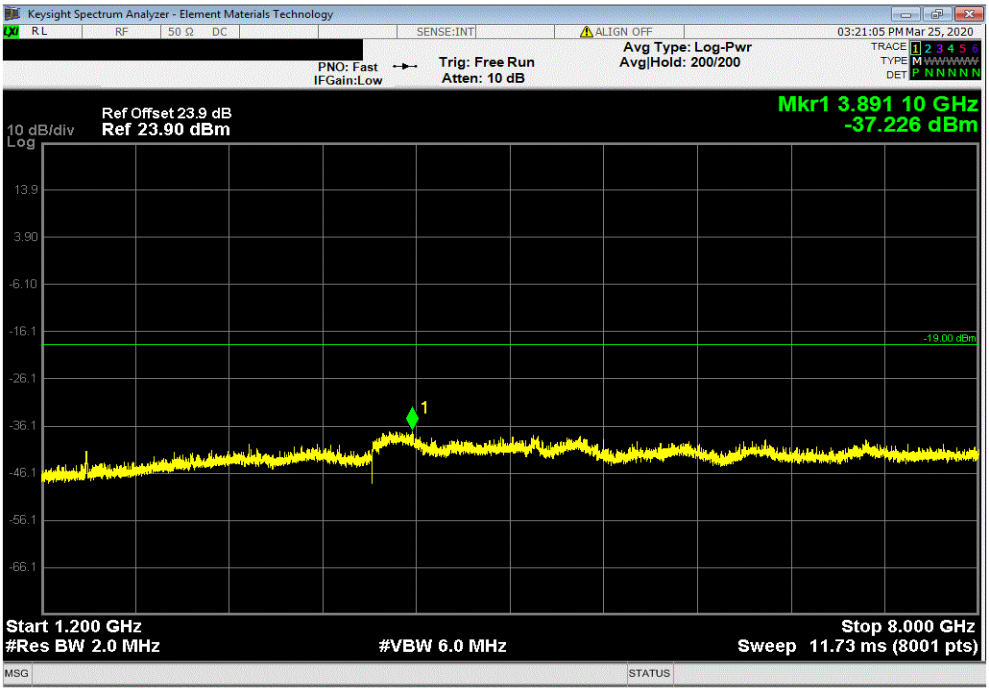
Band 14, 763 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 4, 600 MHz - 800 MHz						
				Value (dBm)	Limit (dBm)	Result
				-32.486	-19	Pass



Band 14, 763 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 5, 800 MHz - 1200 MHz						
				Value (dBm)	Limit (dBm)	Result
				-36.381	-19	Pass

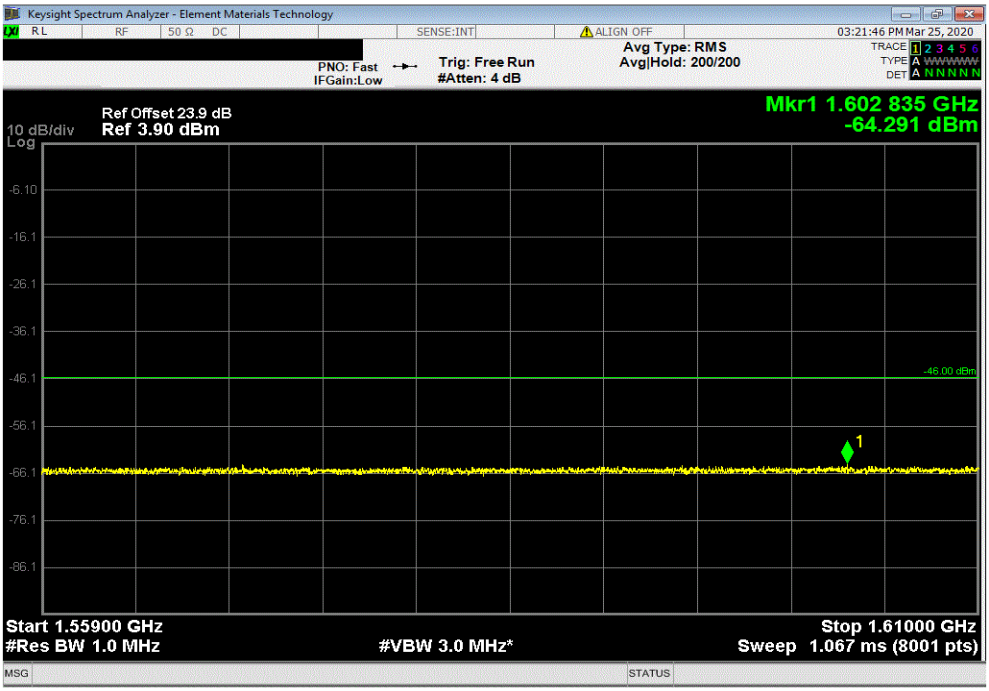


Band 14, 763 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 6, 1200 MHz - 8000 MHz						
				Value (dBm)	Limit (dBm)	Result
				-37.226	-19	Pass



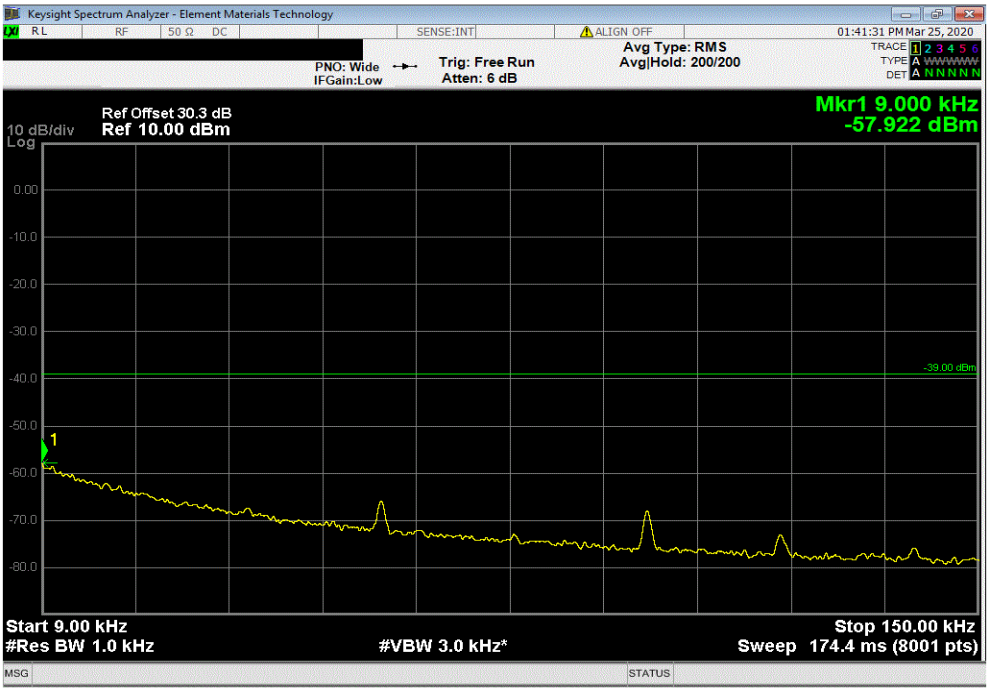
Band 14, 763 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 7, 1559 MHz - 1610 MHz

				Value (dBm)	Limit (dBm)	Result
				-64.291	-46	Pass

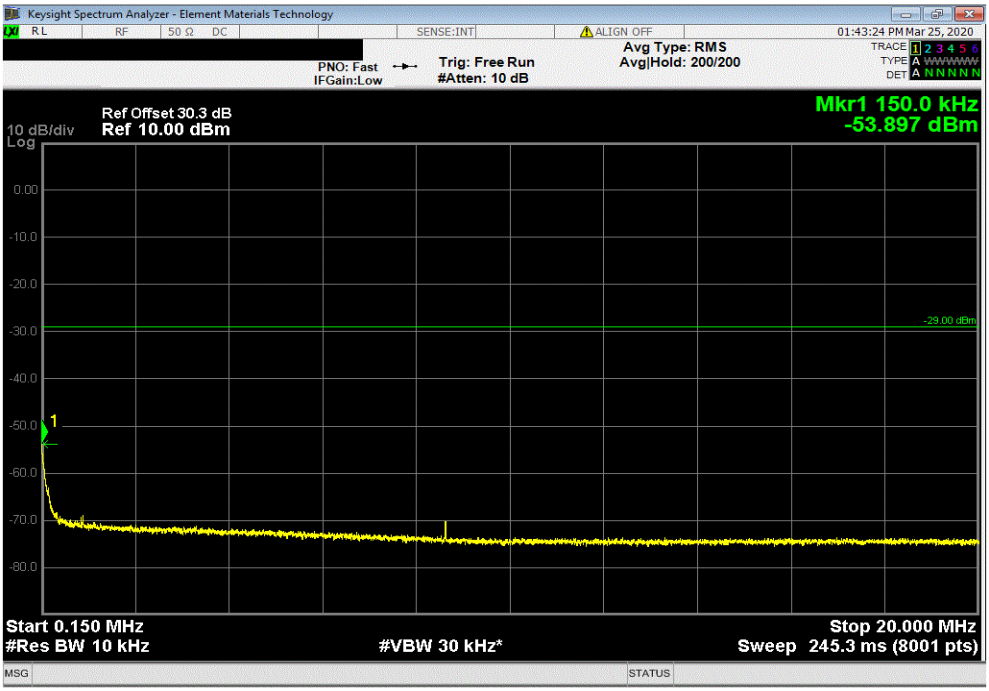


Band 14, 763 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 1, 9 kHz - 150 kHz

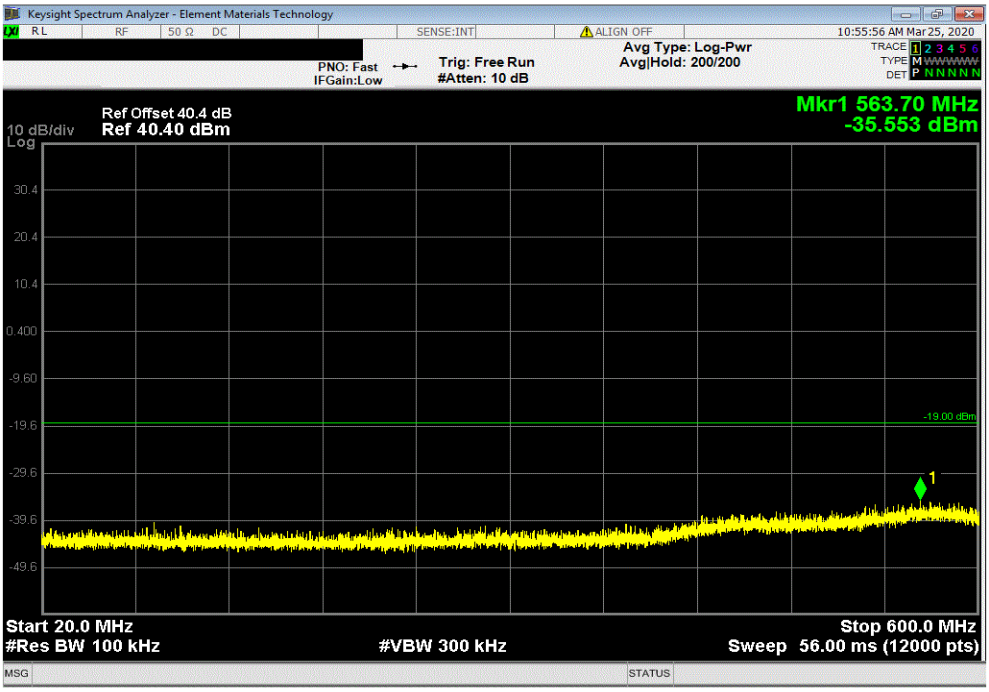
				Value (dBm)	Limit (dBm)	Result
				-57.922	-39	Pass



Band 14, 763 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 2, 150 kHz - 20 MHz						
				Value (dBm)	Limit (dBm)	Result
				-53.897	-29	Pass

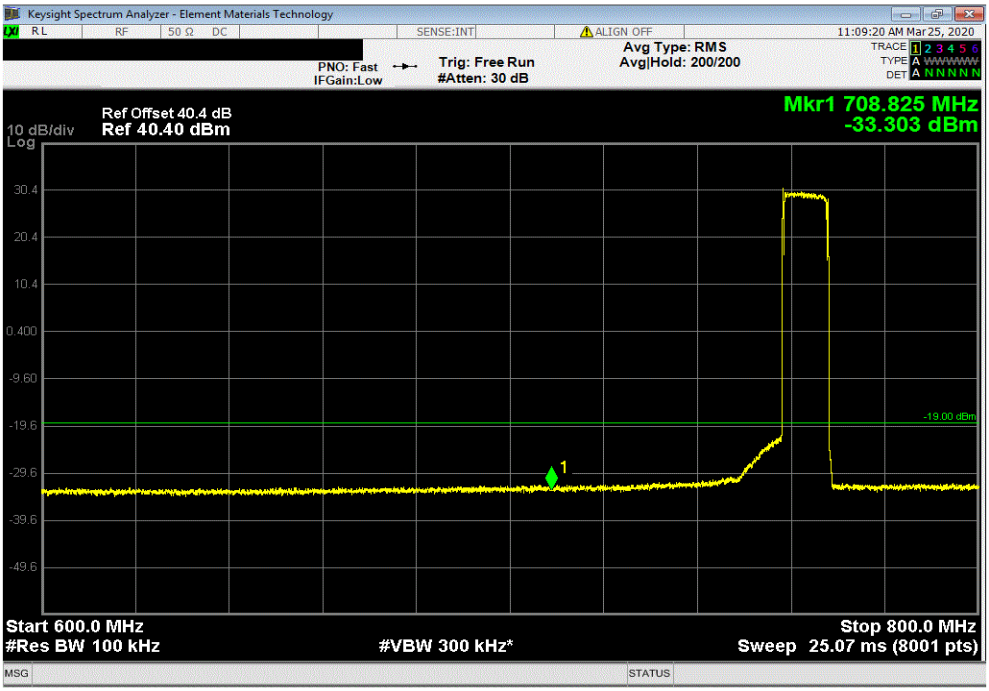


Band 14, 763 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 3, 20 MHz - 600 MHz						
				Value (dBm)	Limit (dBm)	Result
				-35.553	-19	Pass



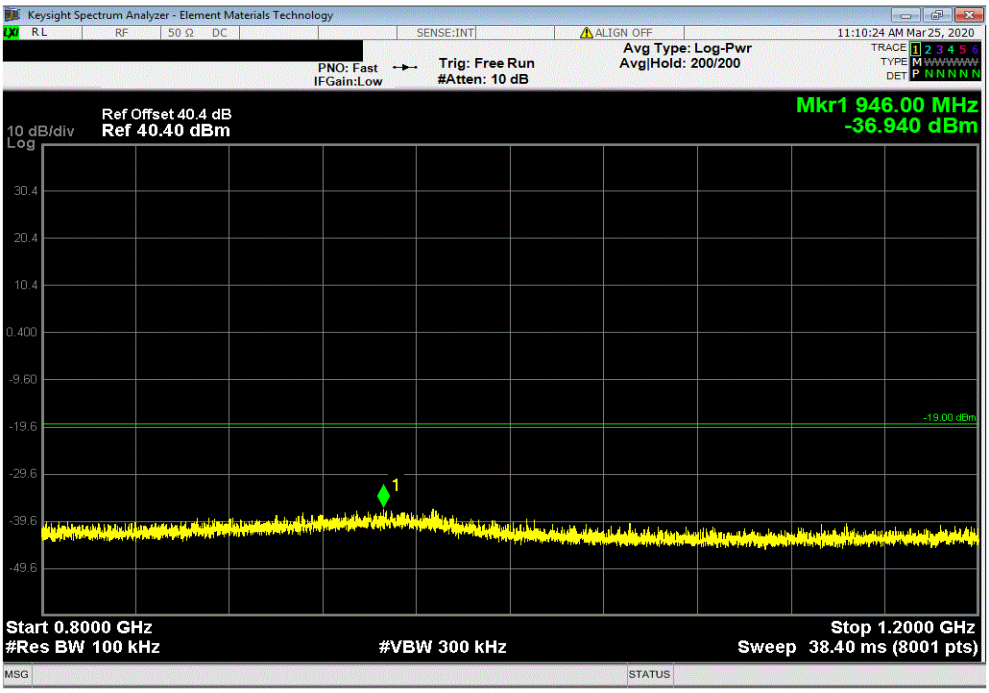
Band 14, 763 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 4, 600 MHz - 800 MHz

				Value (dBm)	Limit (dBm)	Result
				-33.303	-19	Pass



Band 14, 763 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 5, 800 MHz - 1200 MHz

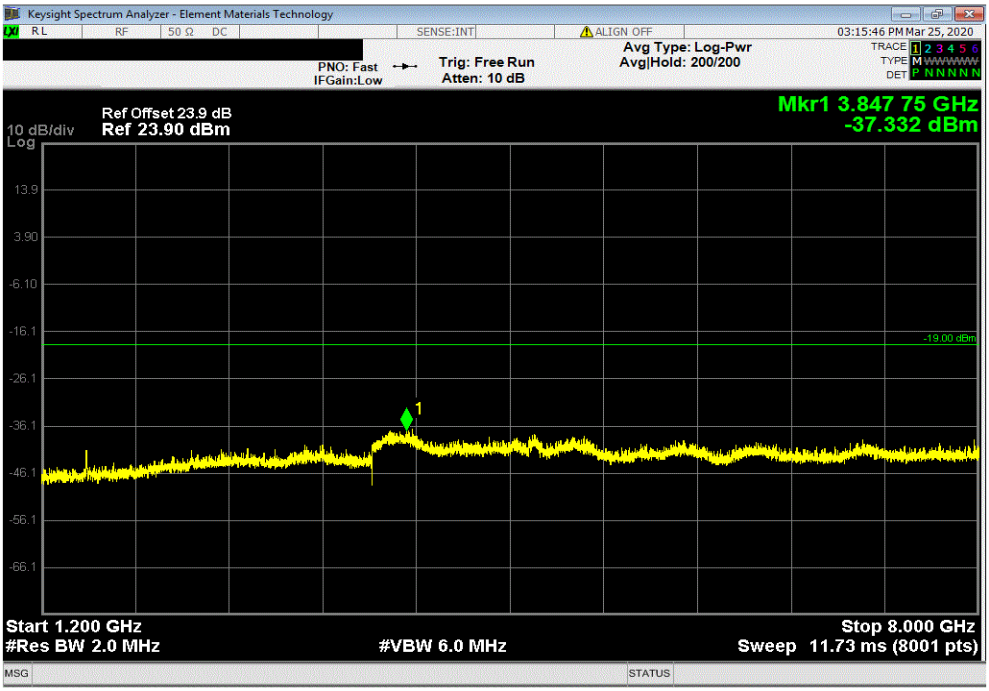
				Value (dBm)	Limit (dBm)	Result
				-36.94	-19	Pass



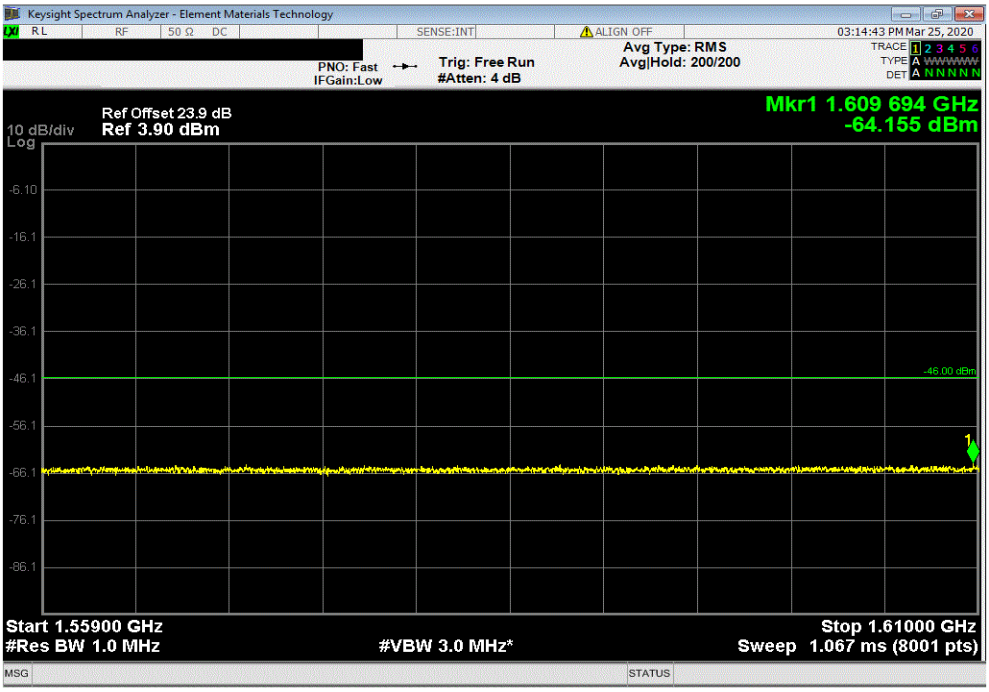
SPURIOUS CONDUCTED EMISSIONS LTE BAND 14 (GUARDBAND)

XMit 2019.09.05

Band 14, 763 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 6, 1200 MHz - 8000 MHz						
				Value (dBm)	Limit (dBm)	Result
				-37.332	-19	Pass



Band 14, 763 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 7, 1559 MHz - 1610 MHz						
				Value (dBm)	Limit (dBm)	Result
				-64.155	-46	Pass



SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

XMit 2019.09.05

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-21
Generator - Signal	Agilent	N5173B	TIW	5-Jul-17	5-Jul-20

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to the middle channel. The EUT was transmitting at the data rate(s) and bandwidths listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

All limits were adjusted by a factor of [-10*log(N)] dB to account for the device operation as a N port MIMO transmitter, as per FCC KDB 622911.

For Bands 12 and 14, the limit adjustment is -10*log(4) = -6 dB.
For Band 29, the limit adjustment is -10*log(2) = -3 dB.

Over the frequency range of 150kHz-20MHz, a RBW of 10 kHz was used; therefore, an additional limit adjustment factor of 10 dB was applied [10*log(10/1)].

The limit for the 9kHz to 150kHz frequency range was adjusted to -39dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 100kHz [i.e.: -39dBm = -19dBm -10log(100kHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -29dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 100kHz [i.e.: -29dBm = -19dBm -10log(100kHz/10kHz)].

Per FCC section 27.53(g), RSS 130 paragraph 4.7.1, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the RRH may operate as a 4 port MIMO transmitter for Band 12. FCC 27.53(g) requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range.

Per FCC 2.1057(a)(1) and RSS Gen 6.13 the upper level of measurement is the 10th harmonic of the highest fundamental frequency. As such, the upper level of the measurement is approximately 8 GHz (744 MHz * 10). The emissions limits are defined in FCC 27.53(g) and RSS 130 4.7.1.

SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

element

XMit 2019.09.05

EUT:	Airscale Base Transceiver Station Remote Radio Head Model AHLBBA			**Work Order:**	NOKI0013
Serial Number:	K9193514835			**Date:**	25-Mar-20
Customer:	Nokia Solutions and Networks			**Temperature:**	22.6 °C
Attendees:	Mitch Hill, John Rattanavong			**Humidity:**	50.7% RH
Project:	None			**Barometric Pres.:**	1008 mbar
Tested by:	Brandon Hobbs	**Power:**	54 VDC	**Job Site:**	TX03

TEST SPECIFICATIONS	Test Method
FCC 27:2020	ANSI C63.26:2015
RSS-130:2019, RSS-Gen:2019	RSS-130:2019, RSS-Gen:2019

COMMENTS

All measurement path losses were accounted for in the reference level offest including any attenuators, filters and DC blocks. The hottest port per power amplifier (PA) was used for testing. The worst case port was determined in the original client provided test report. The carrier power was set to maximum for all testing.

DEVIATIONS FROM TEST STANDARD

None

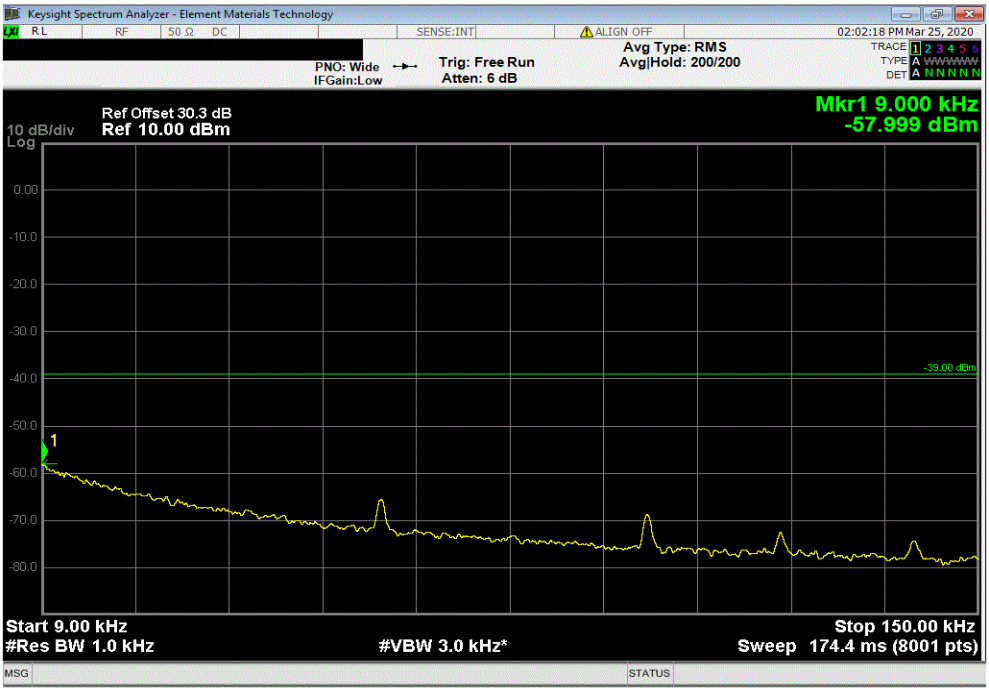
Configuration #	**1,2,3,5,6,7**	*Signature*

	Value (dBm)	Limit (dBm)	Result
Band 12, 729 MHz -745 MHz, LTE			
Port 1			
10 MHz Bandwidth			
QPSK Modulation, Mid Channel			
Range 1, 9 kHz - 150 kHz	-57.999	-39	Pass
Range 2, 150 kHz - 20 MHz	-53.975	-29	Pass
Range 3, 20 MHz - 600 MHz	-34.579	-19	Pass
Range 4, 600 MHz - 800 MHz	-33.179	-19	Pass
Range 5, 800 MHz - 1200 MHz	-36.056	-19	Pass
Range 6, 1200 MHz - 8000 MHz	-35.286	-19	Pass
Range 7, 1559 MHz - 1610 MHz	-64.365	-46	Pass
Port 2			
10 MHz Bandwidth			
QPSK Modulation, Mid Channel			
Range 1, 9 kHz - 150 kHz	-58.466	-39	Pass
Range 2, 150 kHz - 20 MHz	-53.866	-29	Pass
Range 3, 20 MHz - 600 MHz	-35.702	-19	Pass
Range 4, 600 MHz - 800 MHz	-33.054	-19	Pass
Range 5, 800 MHz - 1200 MHz	-35.992	-19	Pass
Range 6, 1200 MHz - 8000 MHz	-36.328	-19	Pass
Range 7, 1559 MHz - 1610 MHz	-64.276	-46	Pass
Band 29, 717 MHz - 728 MHz, LTE			
Port 1			
10 MHz Bandwidth			
QPSK Modulation, Mid Channel			
Range 1, 9 kHz - 150 kHz	-58.29	-39	Pass
Range 2, 150 kHz - 20 MHz	-54.08	-29	Pass
Range 3, 20 MHz - 600 MHz	-38.319	-19	Pass
Range 4, 600 MHz - 800 MHz	-32.039	-19	Pass
Range 5, 800 MHz - 1200 MHz	-38.973	-19	Pass
Range 6, 1200 MHz - 8000 MHz	-37.271	-19	Pass
Range 7, 1559 MHz - 1610 MHz	-64.396	-46	Pass

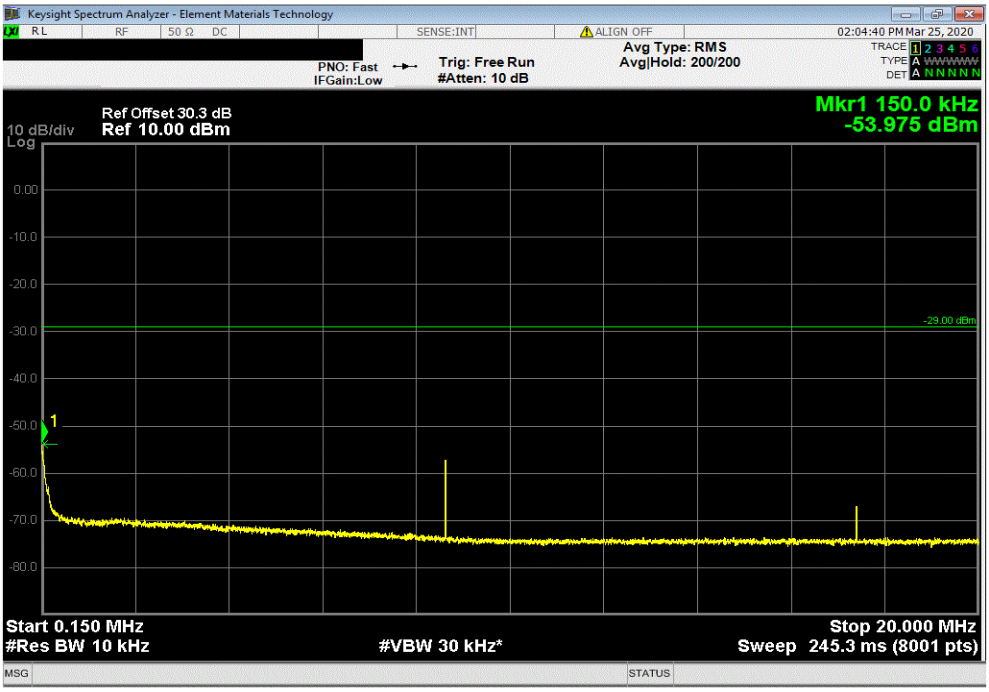
SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

XMit 2019.09.05

Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 1, 9 kHz - 150 kHz						
				Value (dBm)	Limit (dBm)	Result
				-57.999	-39	Pass



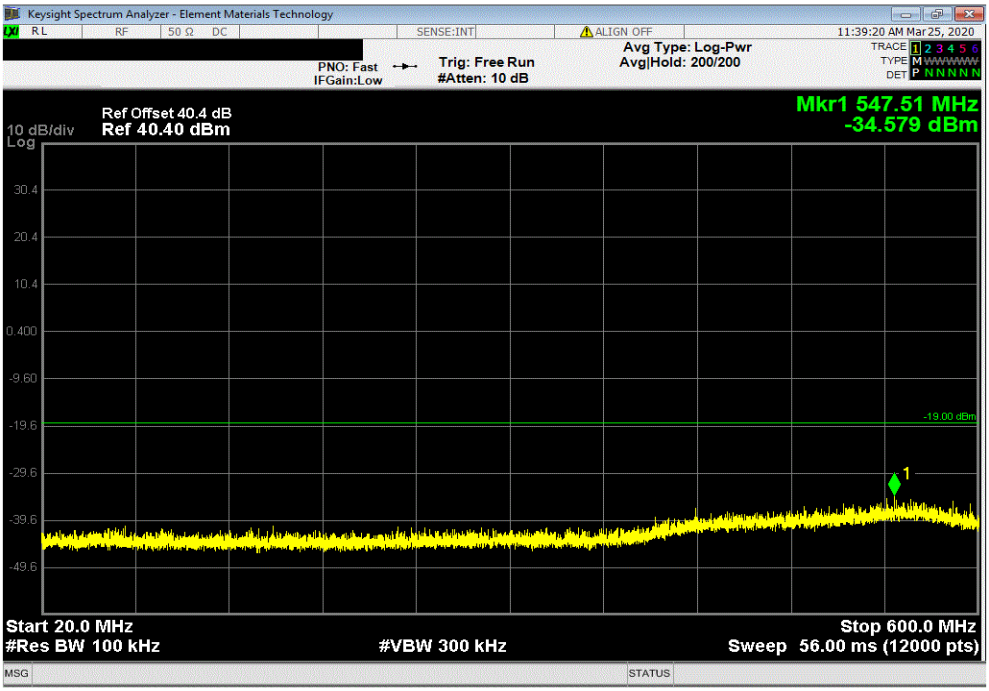
Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 2, 150 kHz - 20 MHz						
				Value (dBm)	Limit (dBm)	Result
				-53.975	-29	Pass



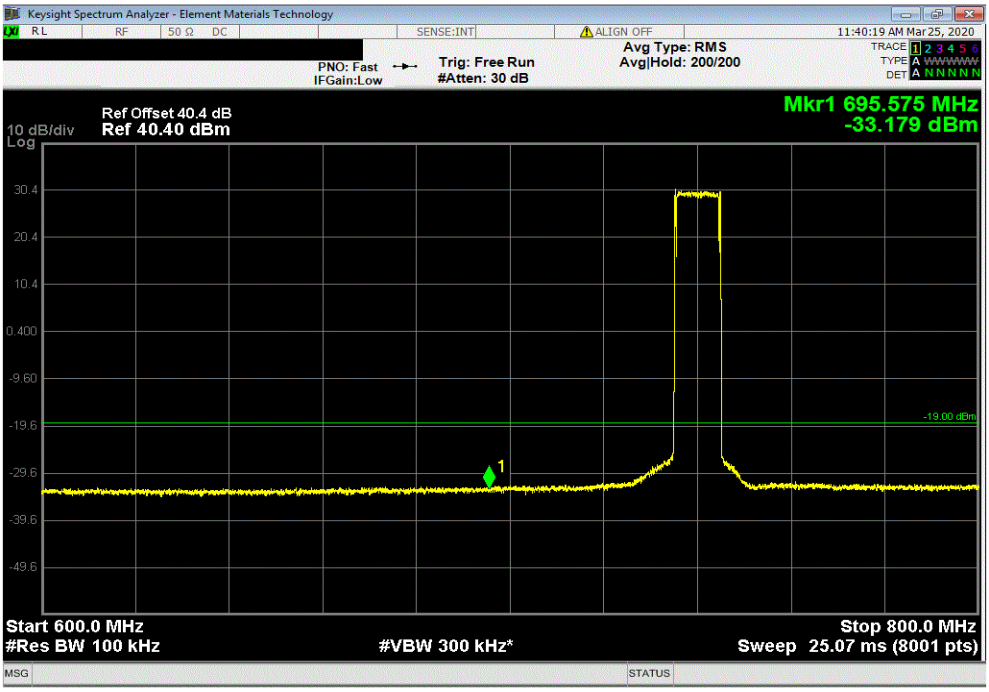
SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

XMit 2019.09.05

Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 3, 20 MHz - 600 MHz						
				Value (dBm)	Limit (dBm)	Result
				-34.579	-19	Pass



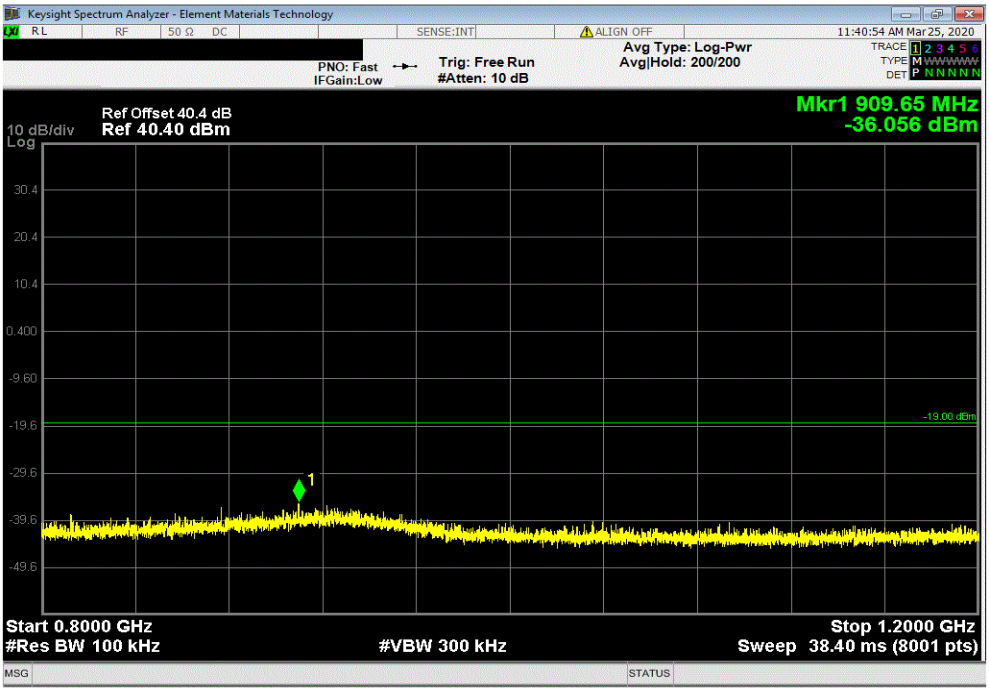
Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 4, 600 MHz - 800 MHz						
				Value (dBm)	Limit (dBm)	Result
				-33.179	-19	Pass



SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

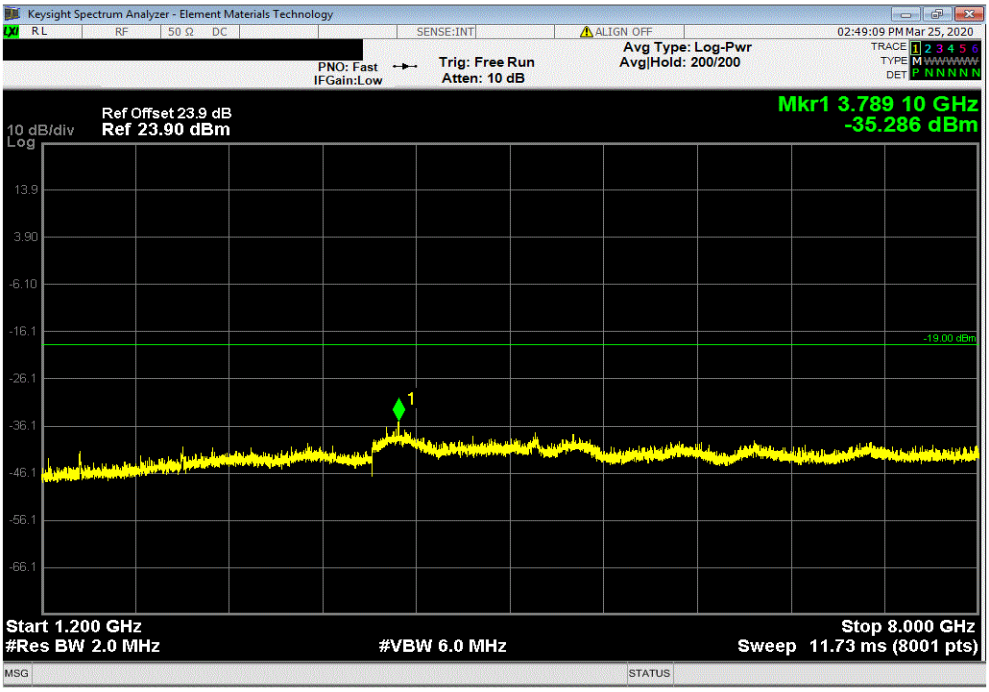
Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 5, 800 MHz - 1200 MHz

				Value (dBm)	Limit (dBm)	Result
				-36.056	-19	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 6, 1200 MHz - 8000 MHz

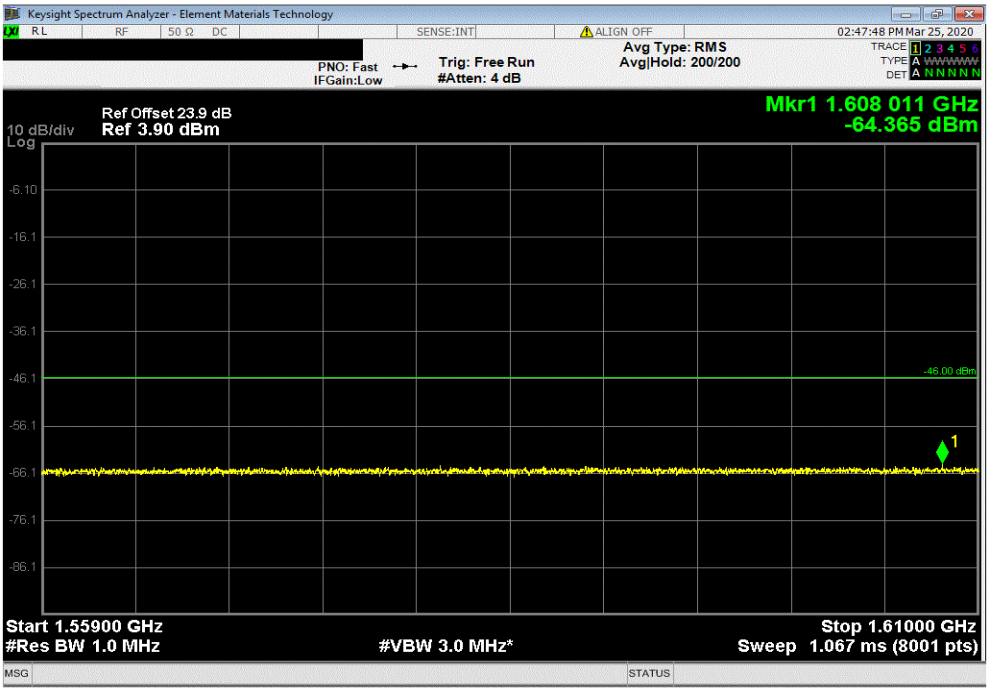
				Value (dBm)	Limit (dBm)	Result
				-35.286	-19	Pass



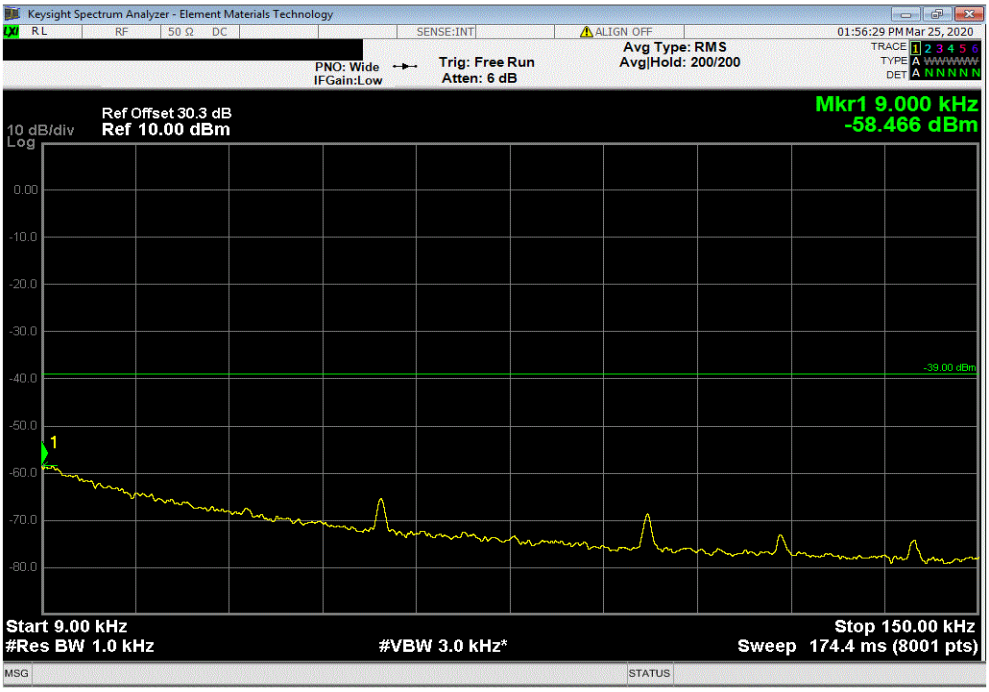
SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

XMit 2019.09.05

Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 7, 1559 MHz - 1610 MHz						
				Value (dBm)	Limit (dBm)	Result
				-64.365	-46	Pass



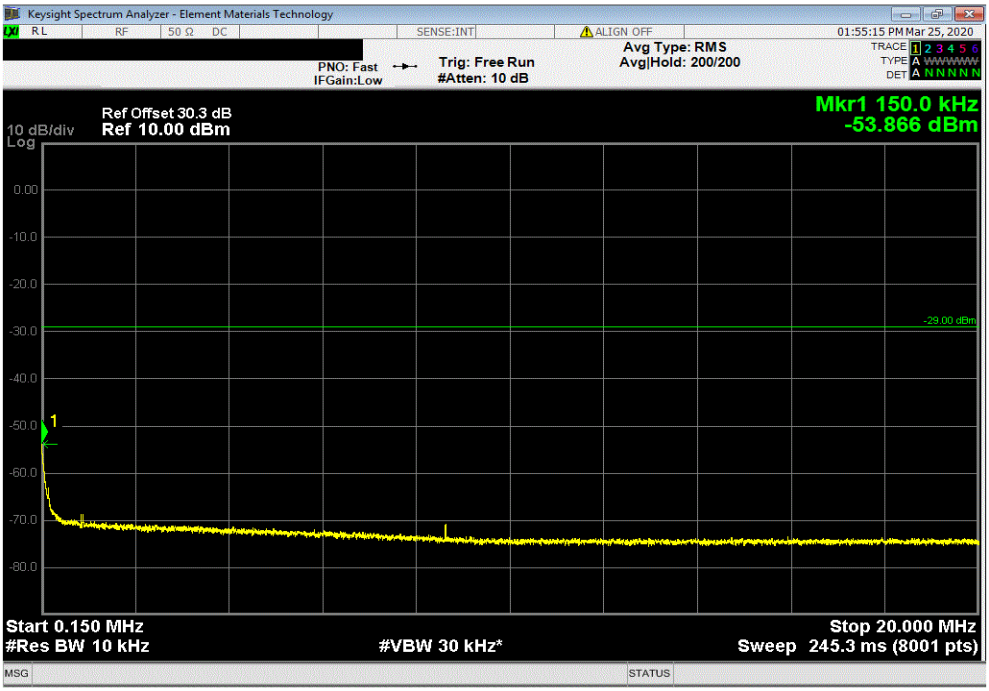
Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 1, 9 kHz - 150 kHz						
				Value (dBm)	Limit (dBm)	Result
				-58.466	-39	Pass



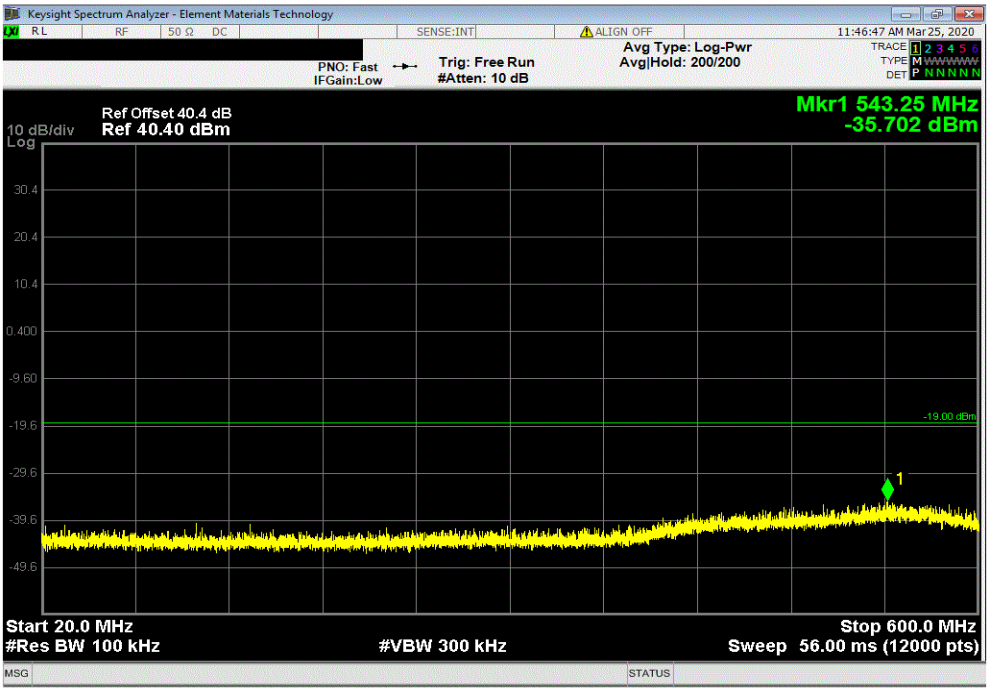
SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

XMit 2019.09.05

Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 2, 150 kHz - 20 MHz						
				Value (dBm)	Limit (dBm)	Result
				-53.866	-29	Pass



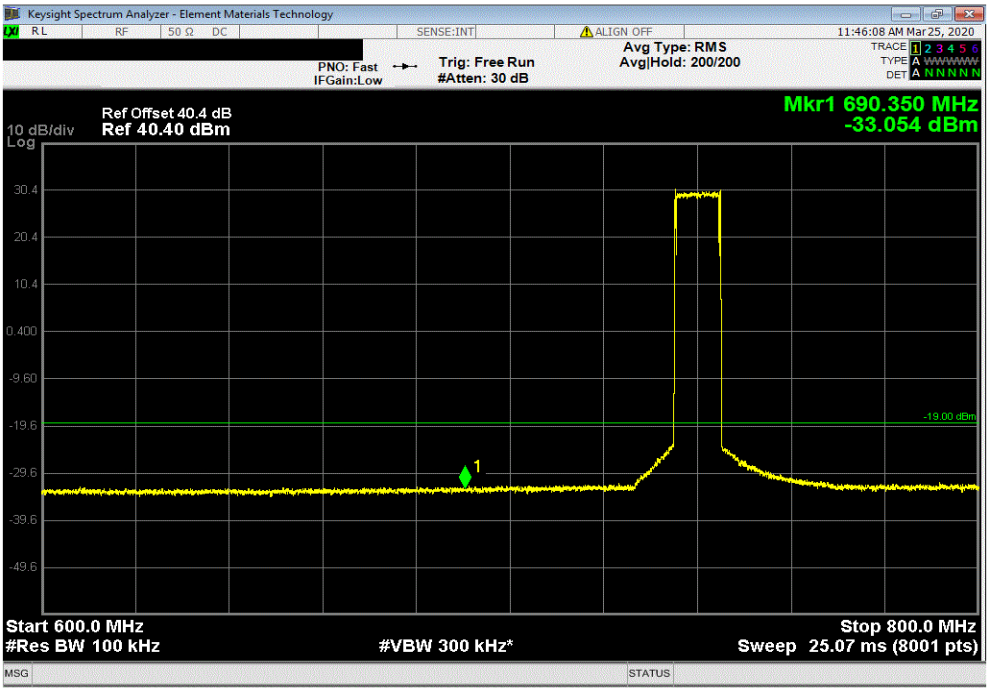
Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 3, 20 MHz - 600 MHz						
				Value (dBm)	Limit (dBm)	Result
				-35.702	-19	Pass



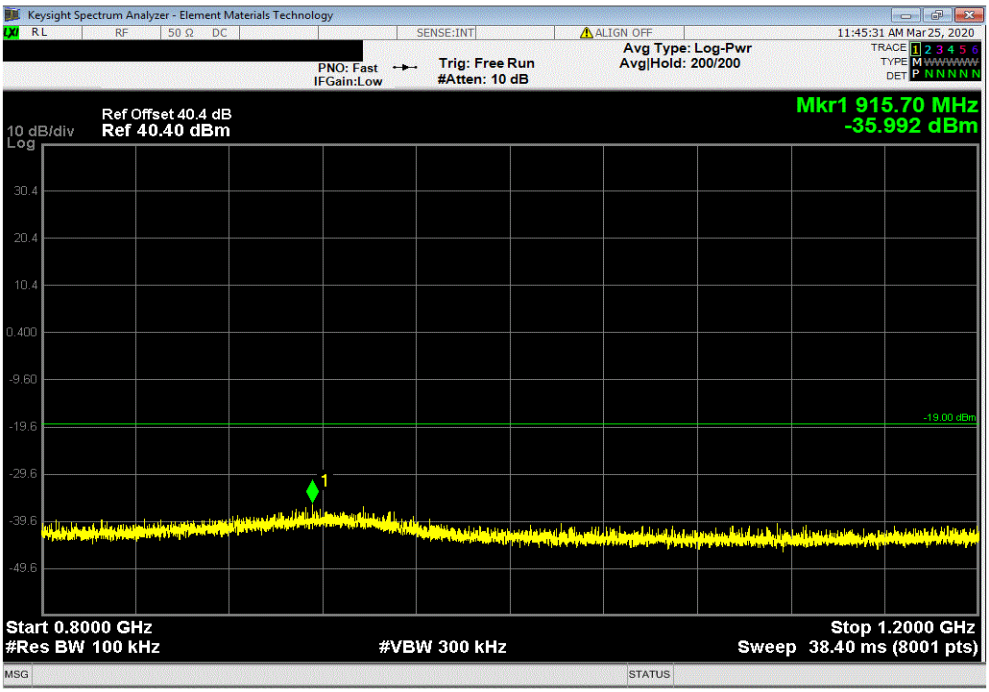
SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

XMit 2019.09.05

Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 4, 600 MHz - 800 MHz						
				Value (dBm)	Limit (dBm)	Result
				-33.054	-19	Pass



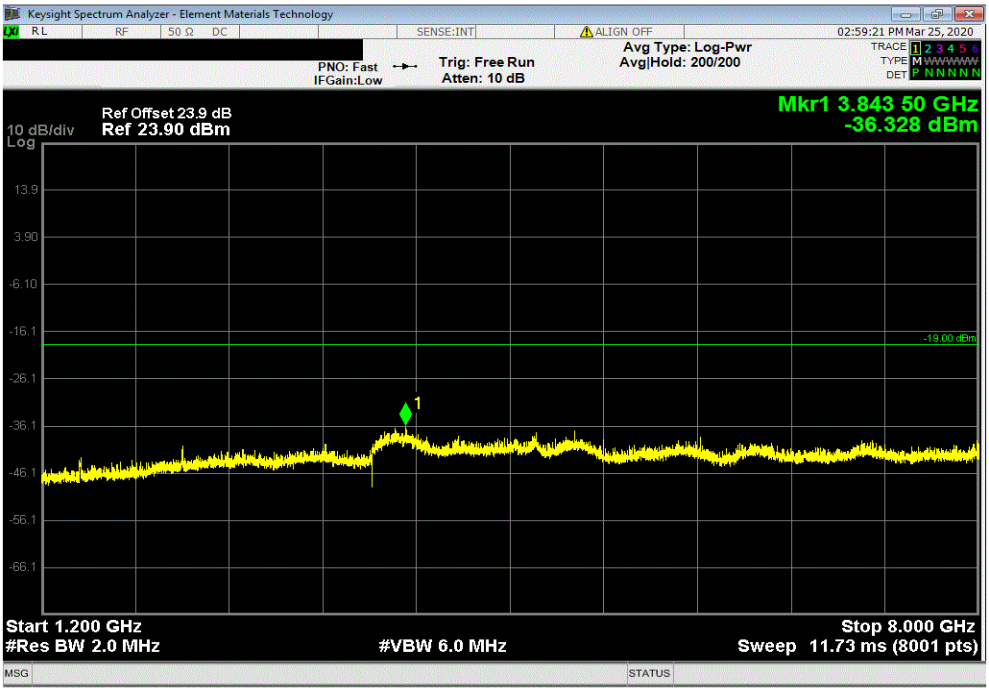
Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 5, 800 MHz - 1200 MHz						
				Value (dBm)	Limit (dBm)	Result
				-35.992	-19	Pass



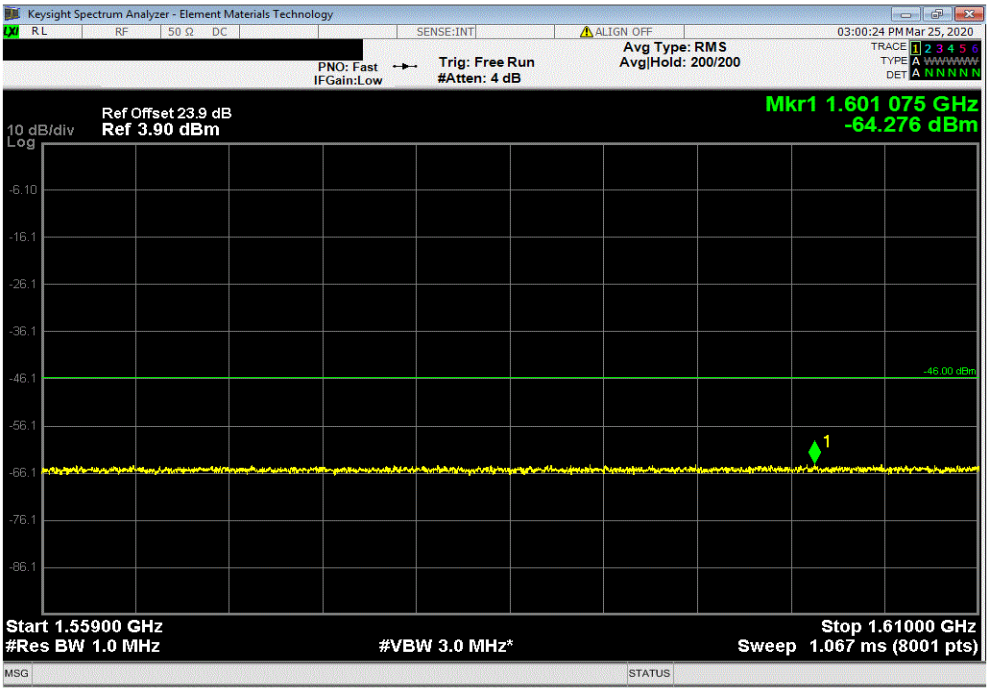
SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

XMit 2019.09.05

Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 6, 1200 MHz - 8000 MHz						
				Value (dBm)	Limit (dBm)	Result
				-36.328	-19	Pass



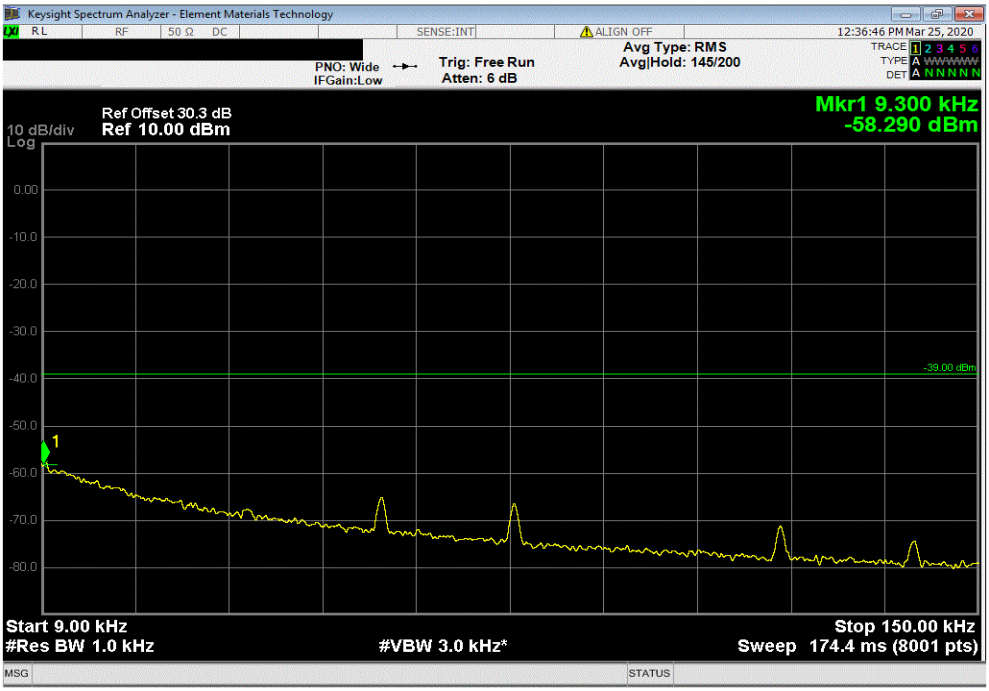
Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 7, 1559 MHz - 1610 MHz						
				Value (dBm)	Limit (dBm)	Result
				-64.276	-46	Pass



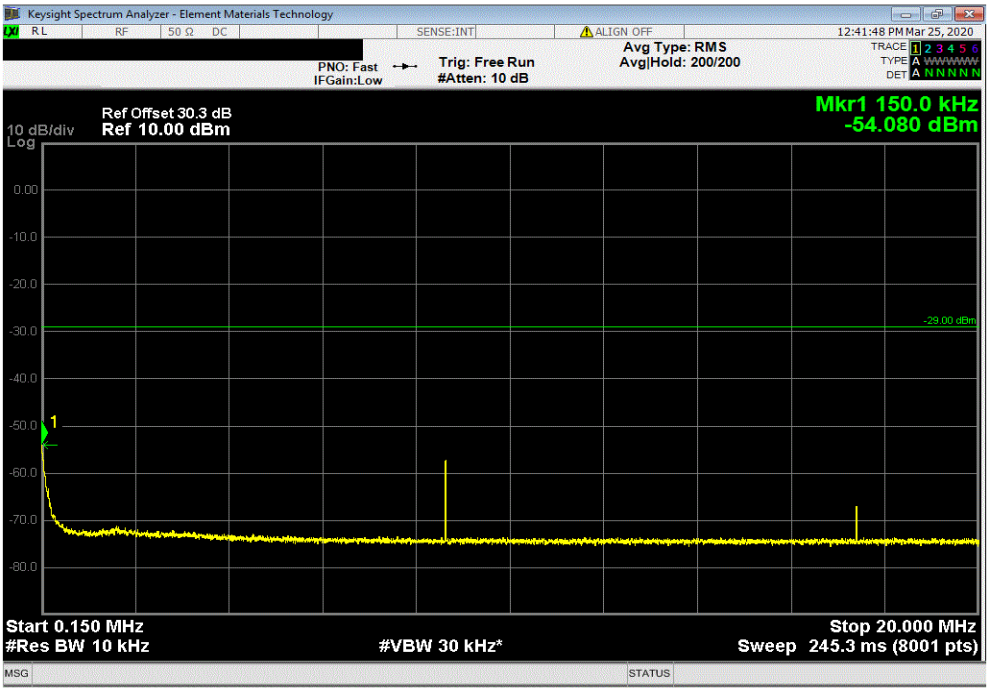
SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

XMit 2019.09.05

Band 29, 717 MHz - 728 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 1, 9 kHz - 150 kHz						
				Value (dBm)	Limit (dBm)	Result
				-58.29	-39	Pass



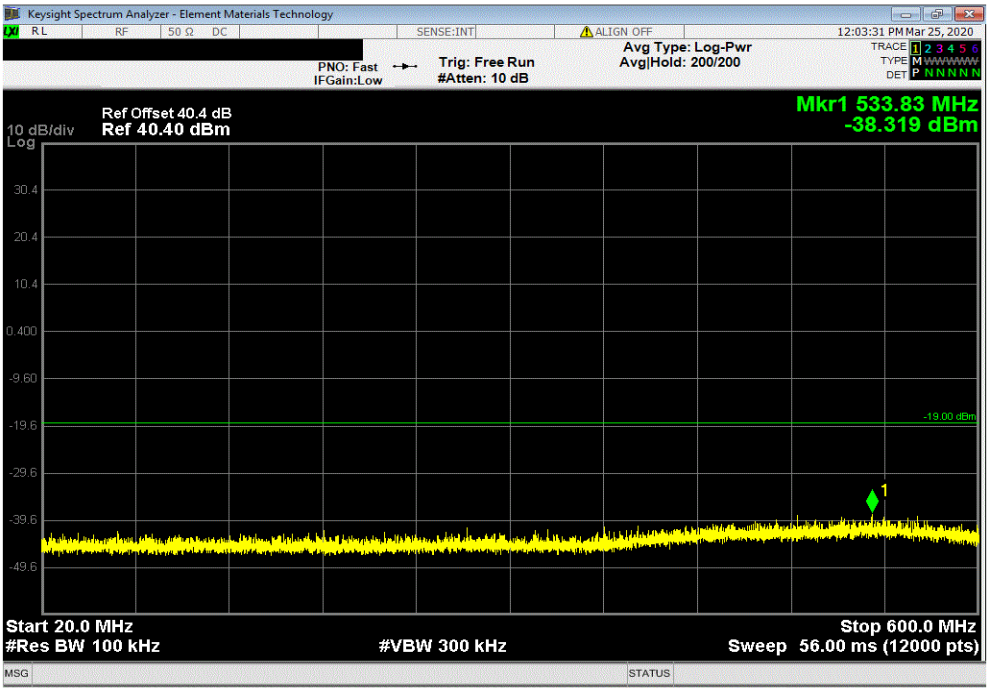
Band 29, 717 MHz - 728 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 2, 150 kHz - 20 MHz						
				Value (dBm)	Limit (dBm)	Result
				-54.08	-29	Pass



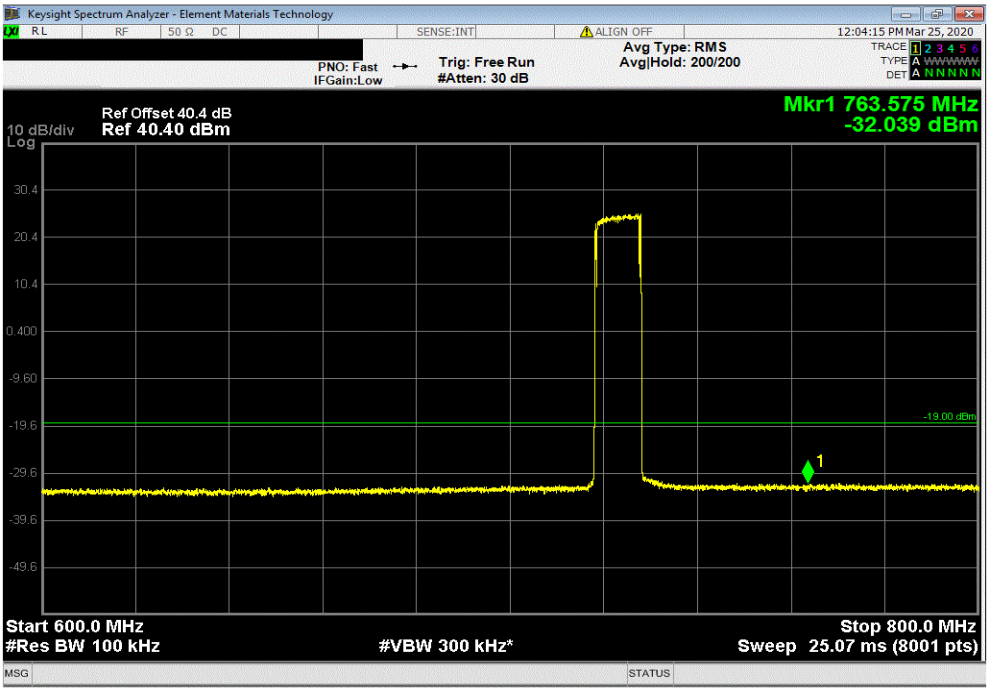
SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

XMit 2019.09.05

Band 29, 717 MHz - 728 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 3, 20 MHz - 600 MHz						
				Value (dBm)	Limit (dBm)	Result
				-38.319	-19	Pass

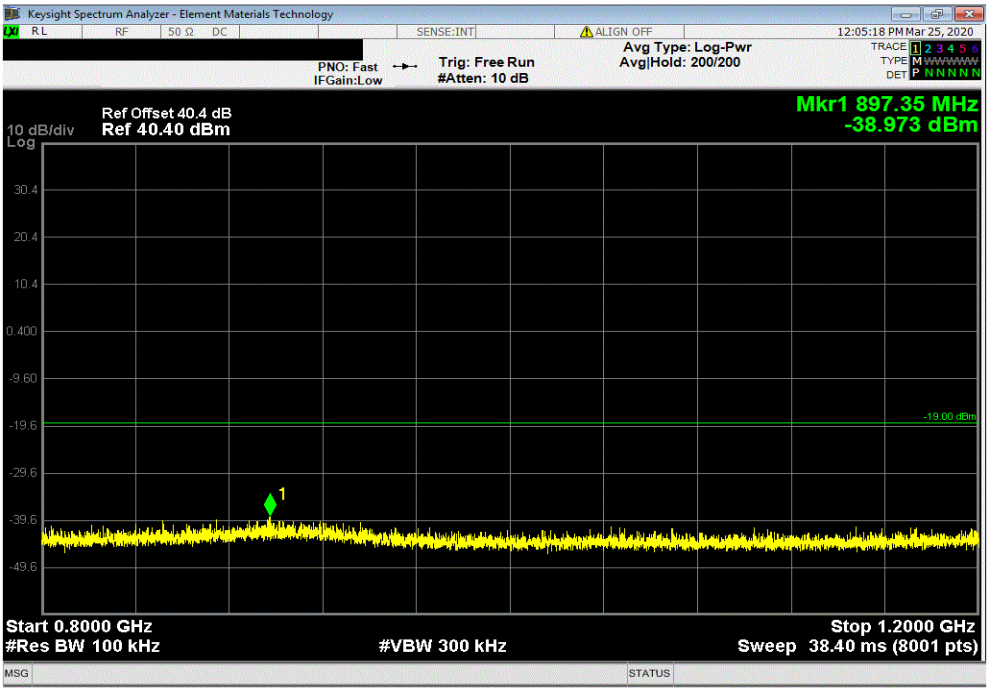


Band 29, 717 MHz - 728 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 4, 600 MHz - 800 MHz						
				Value (dBm)	Limit (dBm)	Result
				-32.039	-19	Pass



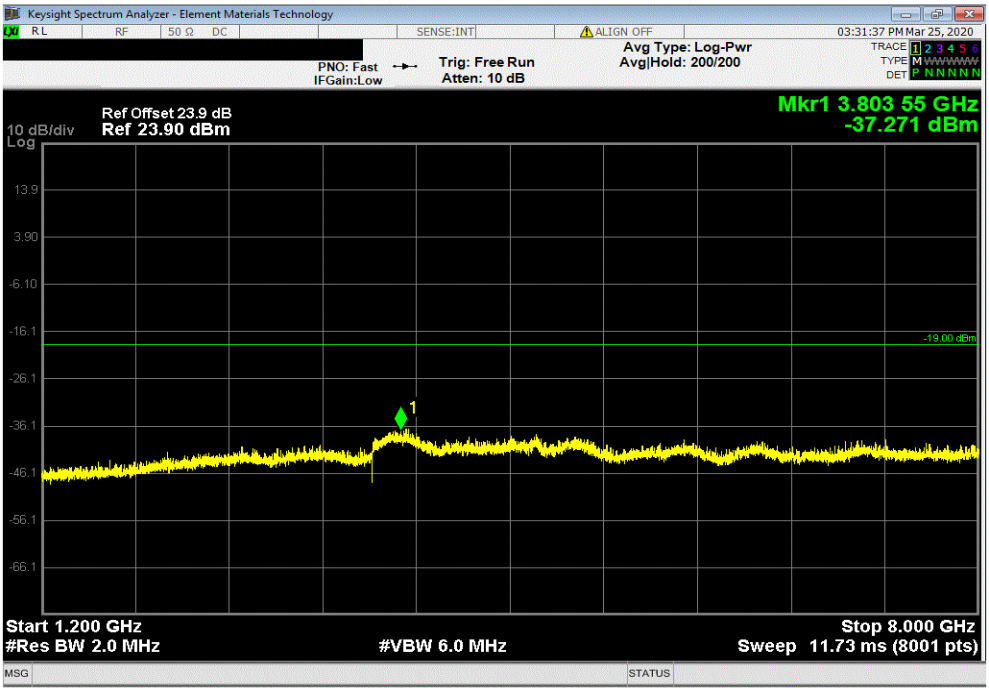
Band 29, 717 MHz - 728 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 5, 800 MHz - 1200 MHz

				Value (dBm)	Limit (dBm)	Result
				-38.973	-19	Pass



Band 29, 717 MHz - 728 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 6, 1200 MHz - 8000 MHz

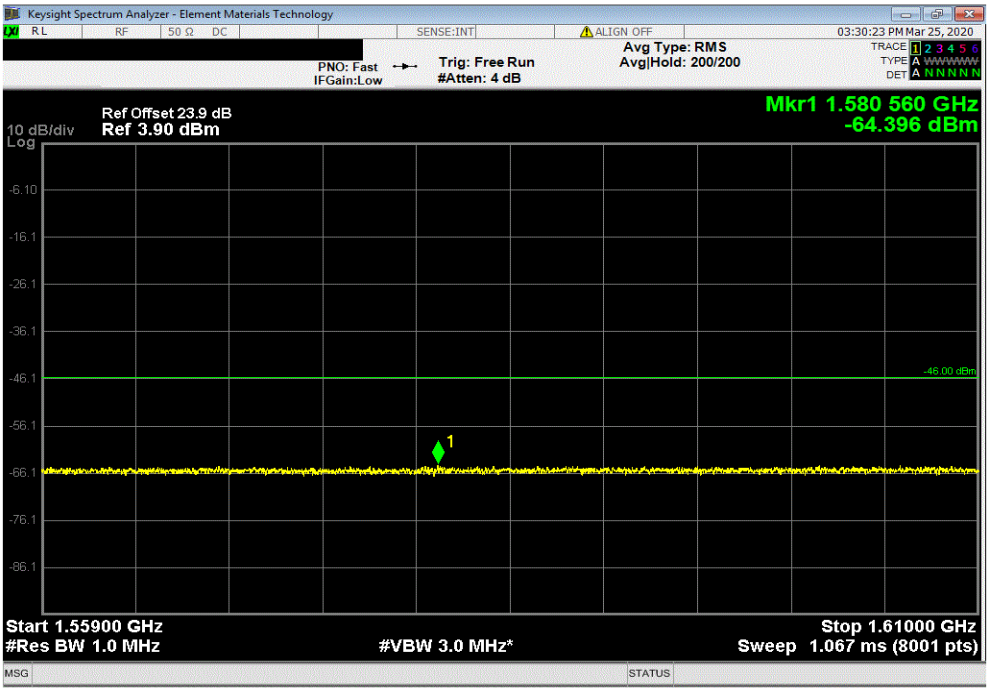
				Value (dBm)	Limit (dBm)	Result
				-37.271	-19	Pass



SPURIOUS CONDUCTED EMISSIONS LTE BANDS 29,12 (GUARDBAND)

XMit 2019.09.05

Band 29, 717 MHz - 728 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 7, 1559 MHz - 1610 MHz						
				Value (dBm)	Limit (dBm)	Result
				-64.396	-46	Pass



Pass

SPURIOUS CONDUCTED EMISSIONS LTE BAND 12 (INBAND)

XMit 2019.09.05

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-21
Generator - Signal	Agilent	N5173B	TIW	5-Jul-17	5-Jul-20

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to the middle channel. The EUT was transmitting at the data rate(s) and bandwidths listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

All limits were adjusted by a factor of [-10*log(N)] dB to account for the device operation as a N port MIMO transmitter, as per FCC KDB 622911.

For Bands 12 and 14, the limit adjustment is -10*log(4) = -6 dB.
For Band 29, the limit adjustment is -10*log(2) = -3 dB.

Over the frequency range of 150kHz-20MHz, a RBW of 10 kHz was used; therefore, an additional limit adjustment factor of 10 dB was applied [10*log(10/1)].

The limit for the 9kHz to 150kHz frequency range was adjusted to -39dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 100kHz [i.e.: -39dBm = -19dBm -10log(100kHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -29dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 100kHz [i.e.: -29dBm = -19dBm -10log(100kHz/10kHz)].

Per FCC section 27.53(g), RSS 130 paragraph 4.7.1, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the RRH may operate as a 4 port MIMO transmitter for Band 12. FCC 27.53(g) requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range.

Per FCC 2.1057(a)(1) and RSS Gen 6.13 the upper level of measurement is the 10th harmonic of the highest fundamental frequency. As such, the upper level of the measurement is approximately 8 GHz (744 MHz * 10). The emissions limits are defined in FCC 27.53(g) and RSS 130 4.7.1.

SPURIOUS CONDUCTED EMISSIONS LTE BAND 12 (INBAND)

element

XMII 2019.09.05

EUT:	Airscale Base Transceiver Station Remote Radio Head Model AHLBBA			**Work Order:**	NOKI0013
Serial Number:	K9193514835			**Date:**	26-Mar-20
Customer:	Nokia Solutions and Networks			**Temperature:**	22.4 °C
Attendees:	Mitch Hill, John Rattanavong			**Humidity:**	50.9% RH
Project:	None			**Barometric Pres.:**	1008 mbar
Tested by:	Brandon Hobbs	**Power:**	54 VDC	**Job Site:**	TX03

TEST SPECIFICATIONS	Test Method
FCC 27:2020	ANSI C63.26:2015
RSS-130:2019, RSS-Gen:2019	RSS-130:2019, RSS-Gen:2019

COMMENTS

All measurement path losses were accounted for in the reference level offest including any attenuators, filters and DC blocks. The hottest port per power amplifier (PA) was used for testing. The worst case port was determined in the original client provided test report. The carrier power was set to maximum for all testing.

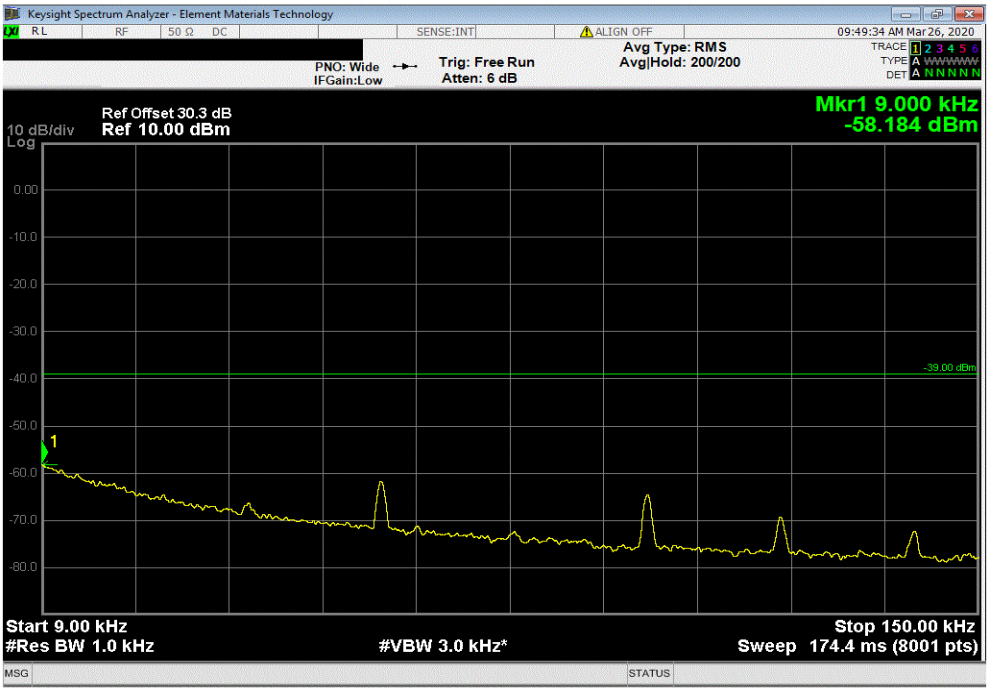
DEVIATIONS FROM TEST STANDARD

None

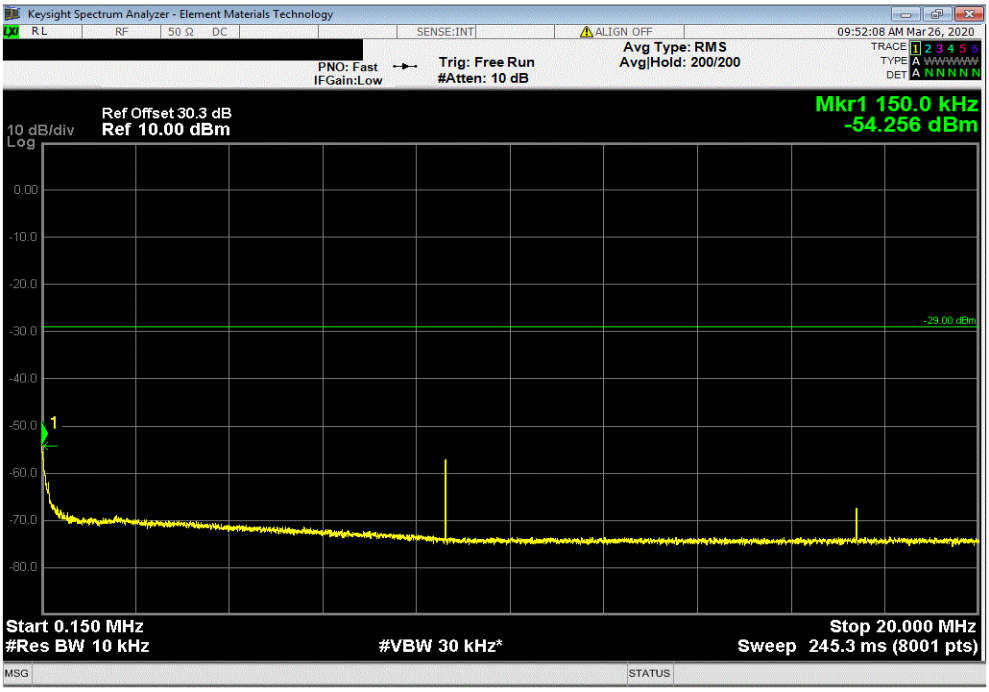
Configuration #	1,2,3,5,6,7	Signature

	Value (dBm)	Limit (dBm)	Result
Band 12, 729 MHz -745 MHz, LTE			
Port 1			
10 MHz Bandwidth			
QPSK Modulation, Mid Channel			
Range 1, 9 kHz - 150 kHz	-58.184	-39	Pass
Range 2, 150 kHz - 20 MHz	-54.256	-29	Pass
Range 3, 20 MHz - 600 MHz	-35.211	-19	Pass
Range 4, 600 MHz - 800 MHz	-33.203	-19	Pass
Range 5, 800 MHz - 1200 MHz	-35.807	-19	Pass
Range 6, 1200 MHz - 8000 MHz	-36.302	-19	Pass
Range 7, 1559 MHz - 1610 MHz	-65.238	-46	Pass
5 MHz Bandwidth			
QPSK Modulation, Mid Channel			
Range 1, 9 kHz - 150 kHz	-57.918	-39	Pass
Range 2, 150 kHz - 20 MHz	-53.756	-29	Pass
Range 3, 20 MHz - 600 MHz	-34.652	-19	Pass
Range 4, 600 MHz - 800 MHz	-32.557	-19	Pass
Range 5, 800 MHz - 1200 MHz	-36.211	-19	Pass
Range 6, 1200 MHz - 8000 MHz	-36.84	-19	Pass
Range 7, 1559 MHz - 1610 MHz	-64.39	-46	Pass
Port 2			
10 MHz Bandwidth			
QPSK Modulation, Mid Channel			
Range 1, 9 kHz - 150 kHz	-57.892	-39	Pass
Range 2, 150 kHz - 20 MHz	-54.371	-29	Pass
Range 3, 20 MHz - 600 MHz	-34.794	-19	Pass
Range 4, 600 MHz - 800 MHz	-32.473	-19	Pass
Range 5, 800 MHz - 1200 MHz	-36.69	-19	Pass
Range 6, 1200 MHz - 8000 MHz	-36.812	-19	Pass
Range 7, 1559 MHz - 1610 MHz	-64.493	-46	Pass
5 MHz Bandwidth			
QPSK Modulation, Mid Channel			
Range 1, 9 kHz - 150 kHz	-58.324	-39	Pass
Range 2, 150 kHz - 20 MHz	-53.513	-29	Pass
Range 3, 20 MHz - 600 MHz	-34.74	-19	Pass
Range 4, 600 MHz - 800 MHz	-32.481	-19	Pass
Range 5, 800 MHz - 1200 MHz	-35.927	-19	Pass
Range 6, 1200 MHz - 8000 MHz	-36.801	-19	Pass
Range 7, 1559 MHz - 1610 MHz	-64.465	-46	Pass

Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 1, 9 kHz - 150 kHz						
				Value (dBm)	Limit (dBm)	Result
				-58.184	-39	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 2, 150 kHz - 20 MHz						
				Value (dBm)	Limit (dBm)	Result
				-54.256	-29	Pass



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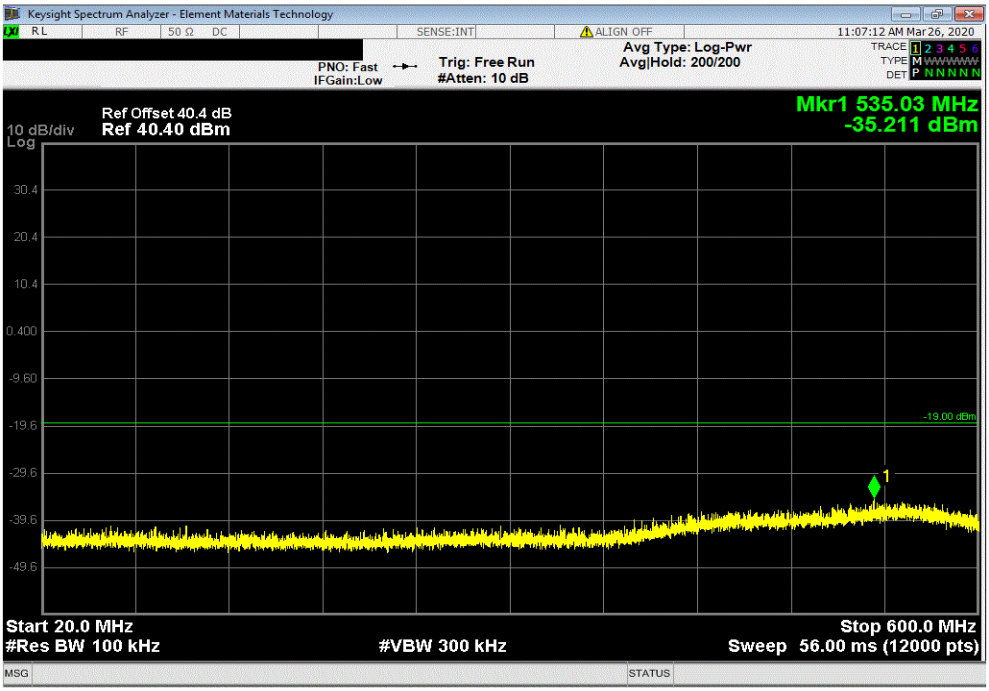
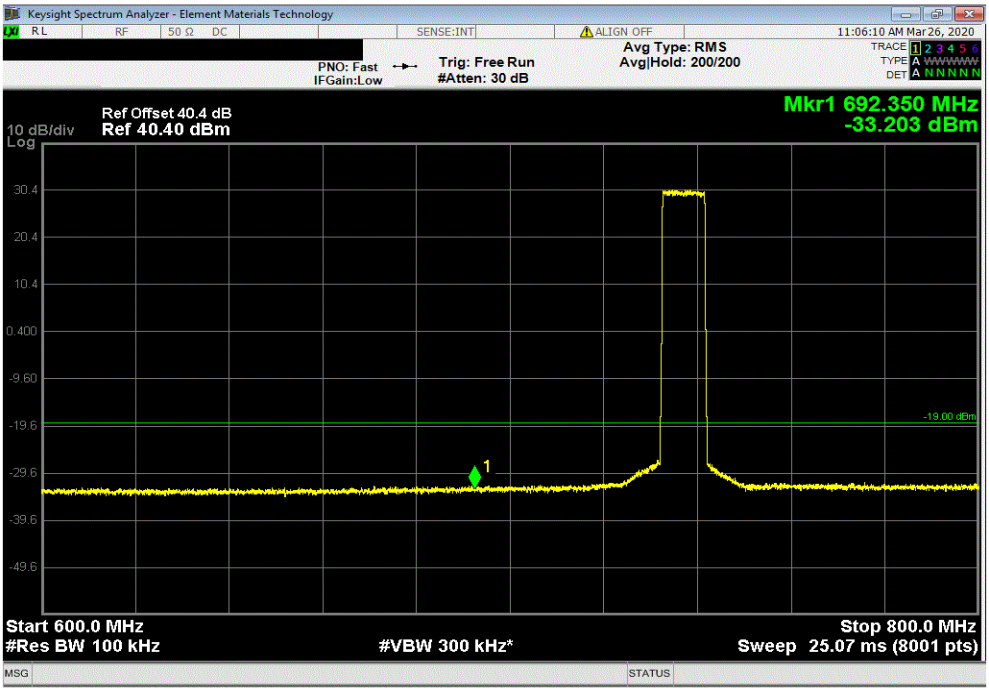
Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 3, 20 MHz - 600 MHz						
				Value (dBm)	Limit (dBm)	Result
				-35.211	-19	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 4, 600 MHz - 800 MHz						
				Value (dBm)	Limit (dBm)	Result
				-33.203	-19	Pass



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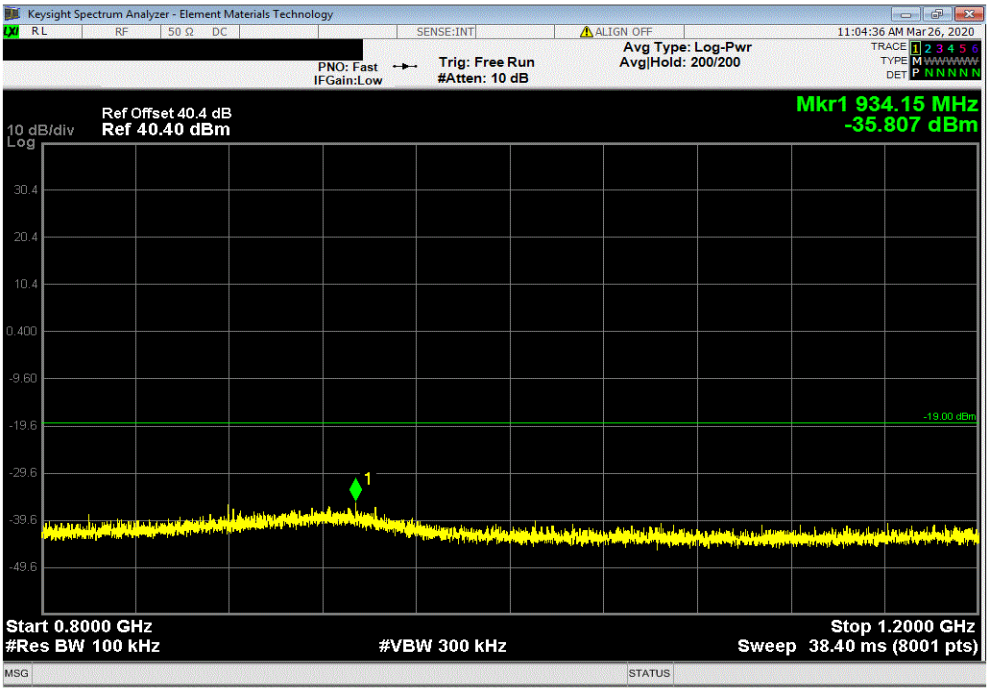
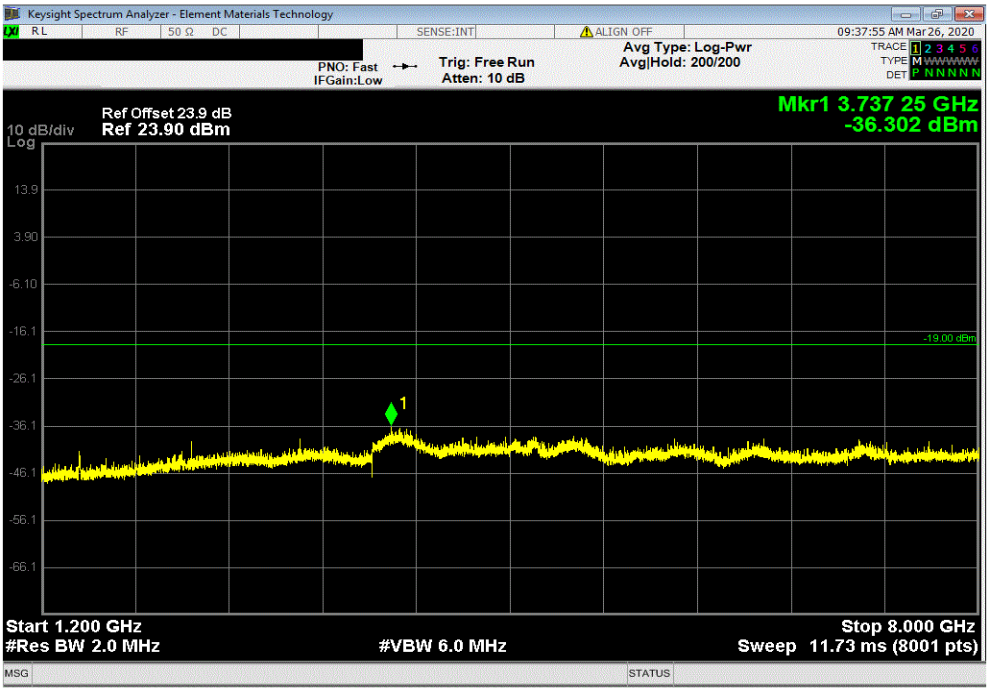
Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 5, 800 MHz - 1200 MHz						
				Value (dBm)	Limit (dBm)	Result
				-35.807	-19	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 6, 1200 MHz - 8000 MHz						
				Value (dBm)	Limit (dBm)	Result
				-36.302	-19	Pass



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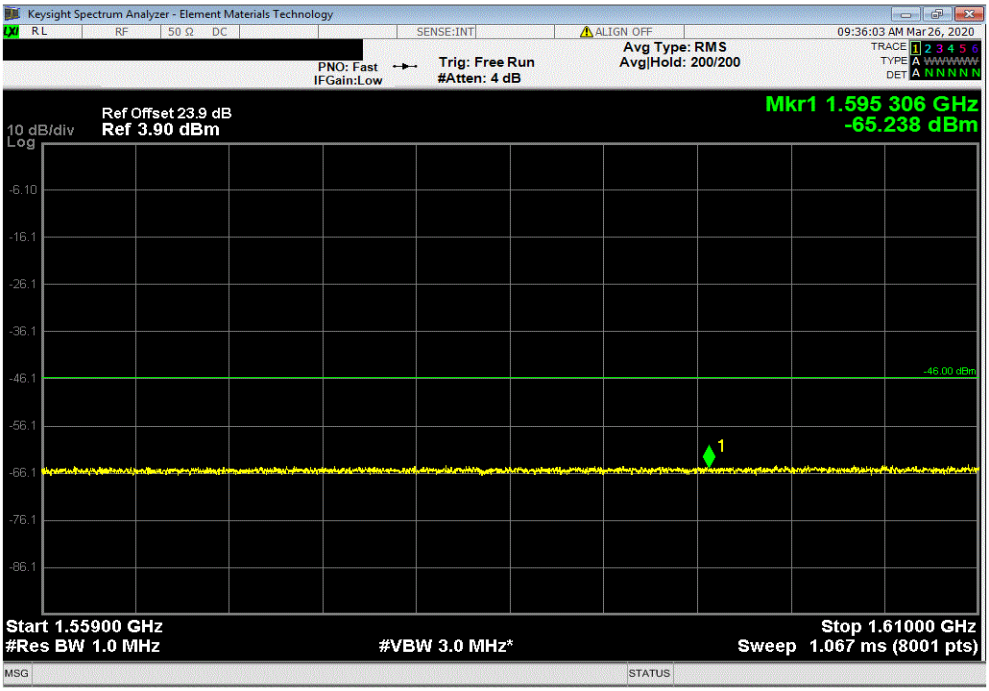
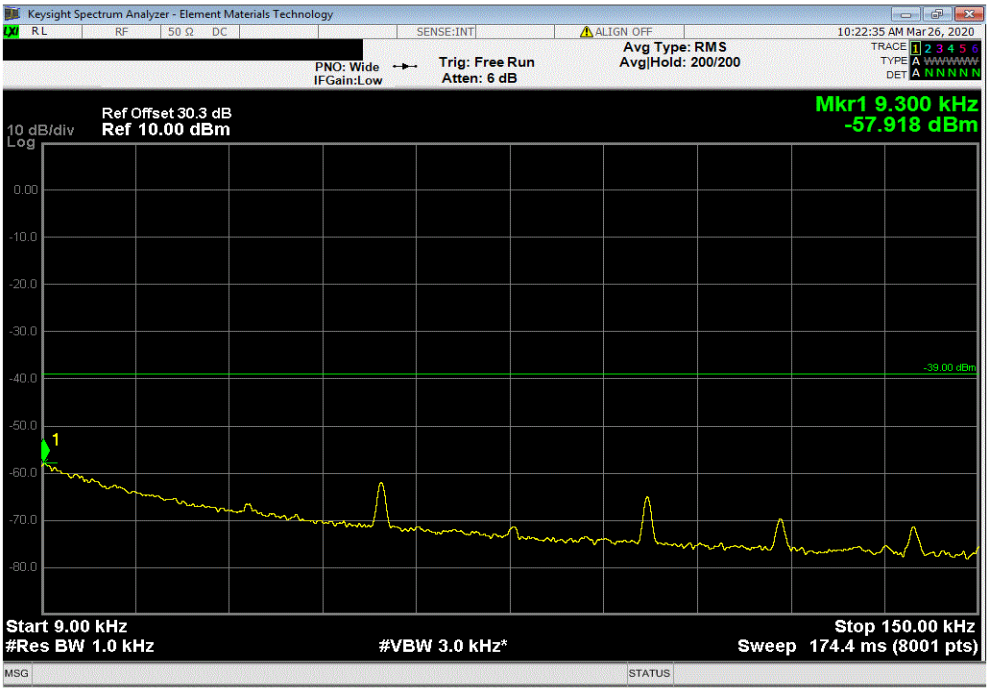
Band 12, 729 MHz -745 MHz, LTE, Port 1, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 7, 1559 MHz - 1610 MHz						
				Value (dBm)	Limit (dBm)	Result
				-65.238	-46	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 1, 9 kHz - 150 kHz						
				Value (dBm)	Limit (dBm)	Result
				-57.918	-39	Pass



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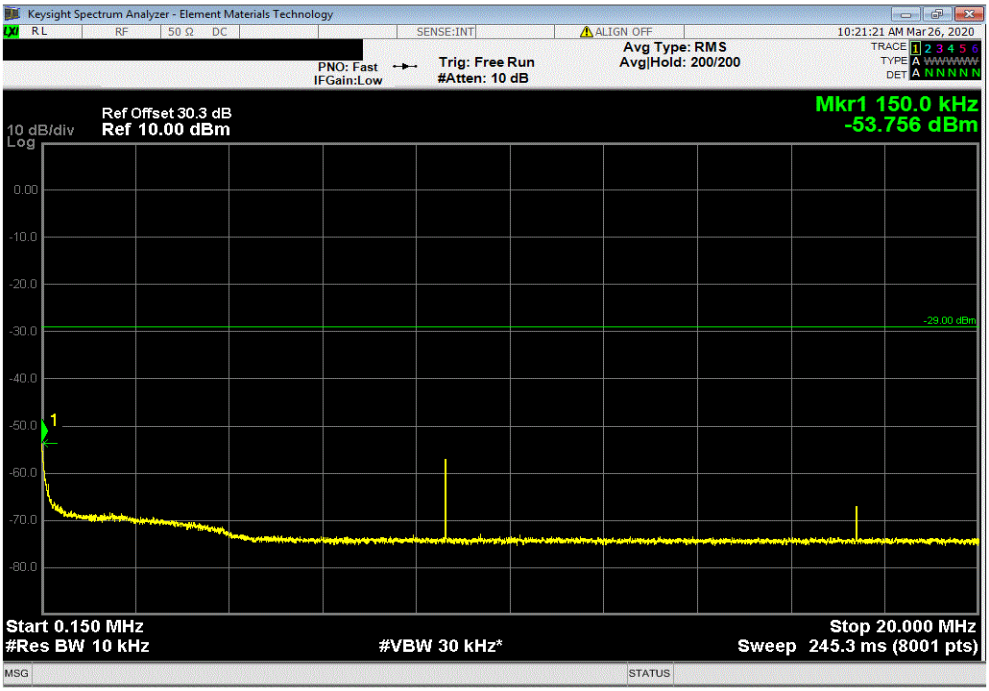
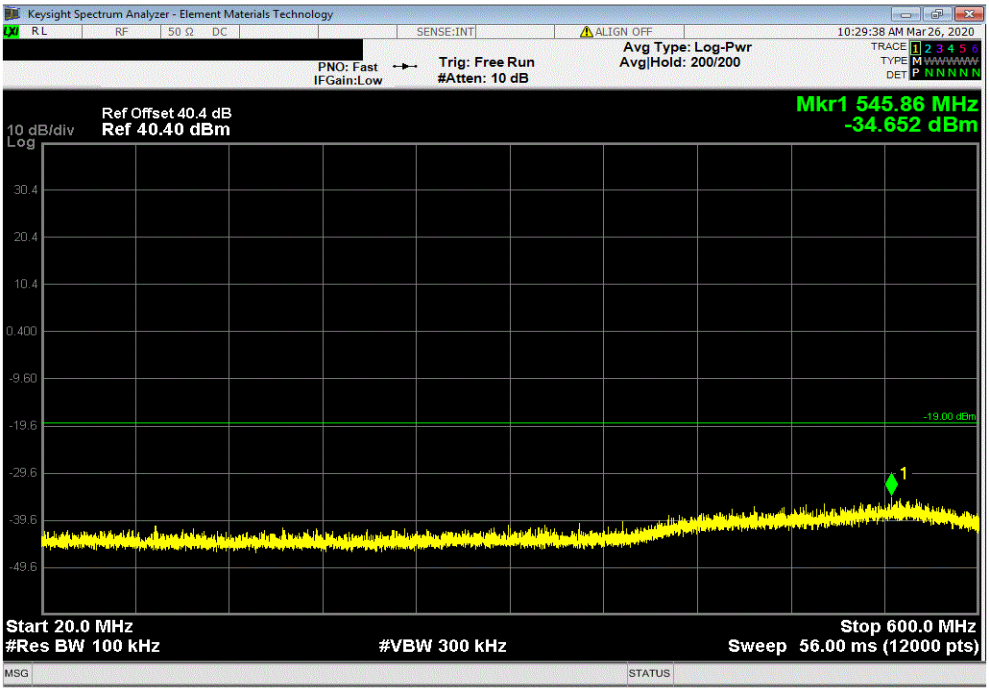
Band 12, 729 MHz -745 MHz, LTE, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 2, 150 kHz - 20 MHz						
				Value (dBm)	Limit (dBm)	Result
				-53.756	-29	Pass

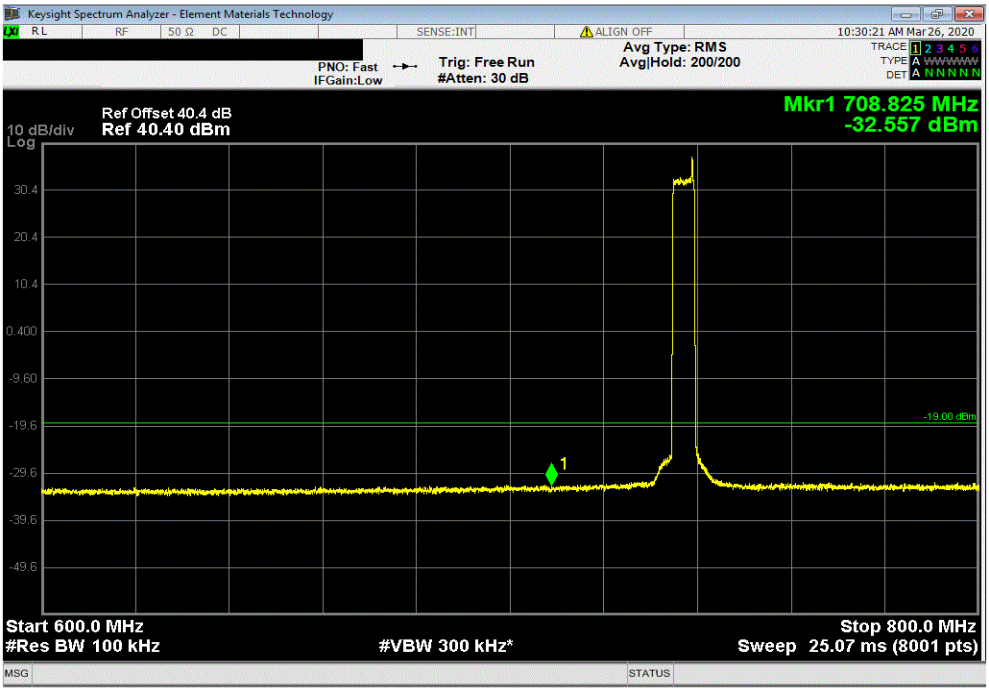


Band 12, 729 MHz -745 MHz, LTE, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 3, 20 MHz - 600 MHz						
				Value (dBm)	Limit (dBm)	Result
				-34.652	-19	Pass



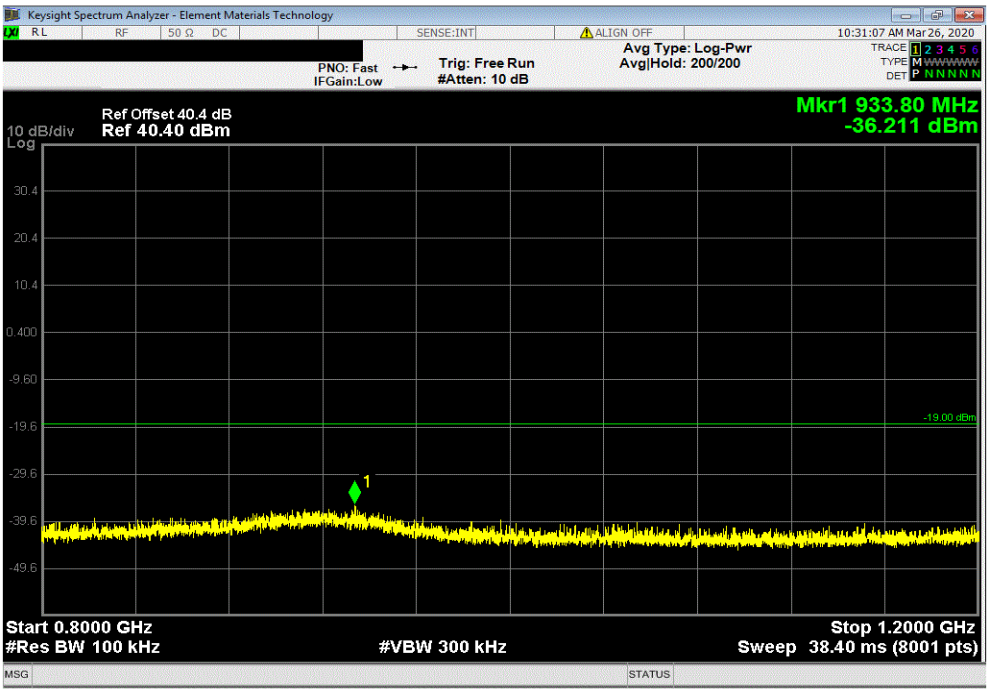
Band 12, 729 MHz -745 MHz, LTE, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 4, 600 MHz - 800 MHz

				Value (dBm)	Limit (dBm)	Result
				-32.557	-19	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 5, 800 MHz - 1200 MHz

				Value (dBm)	Limit (dBm)	Result
				-36.211	-19	Pass



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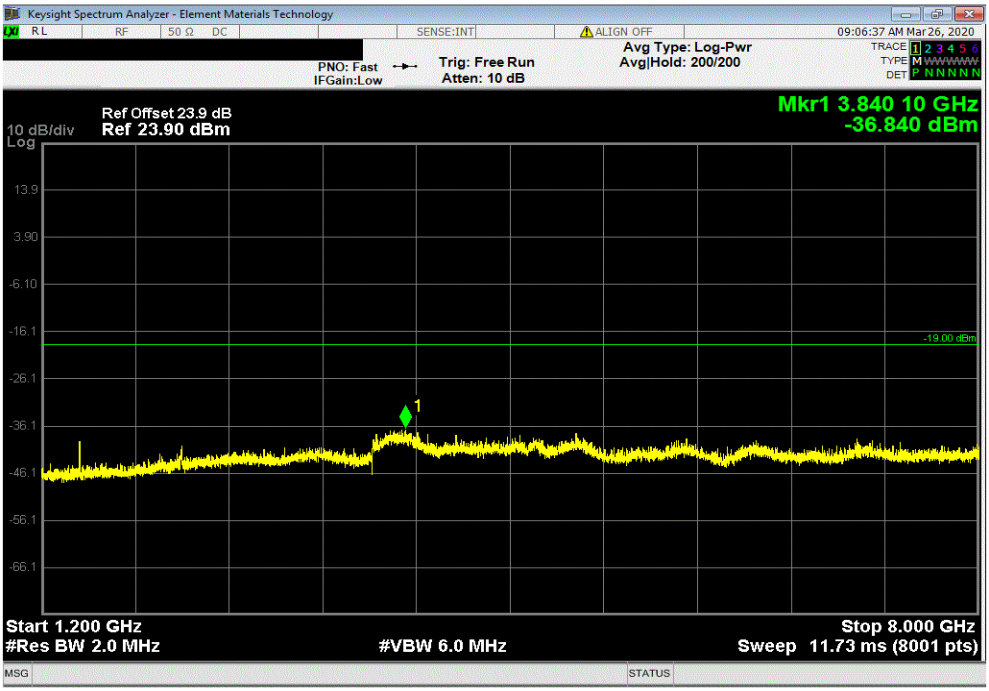
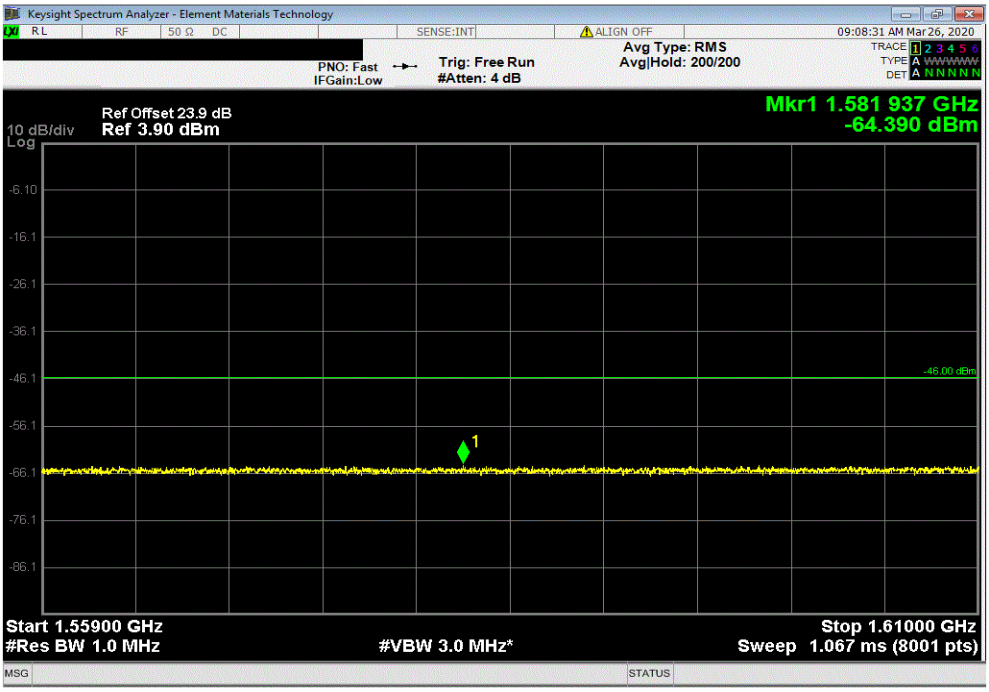
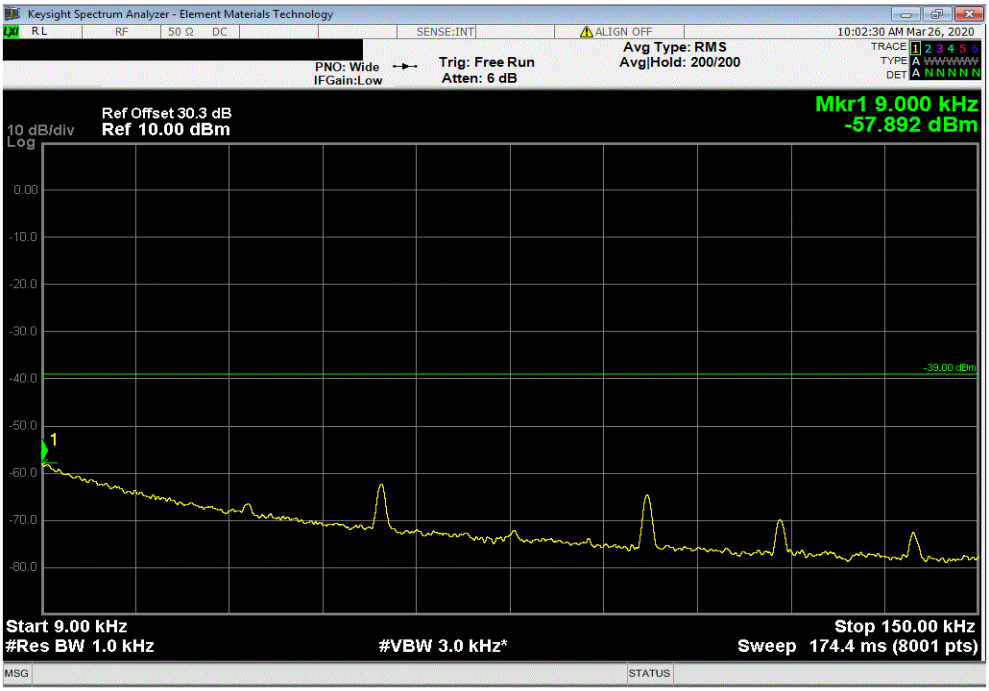
Band 12, 729 MHz -745 MHz, LTE, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 6, 1200 MHz - 8000 MHz						
				Value (dBm)	Limit (dBm)	Result
				-36.84	-19	Pass



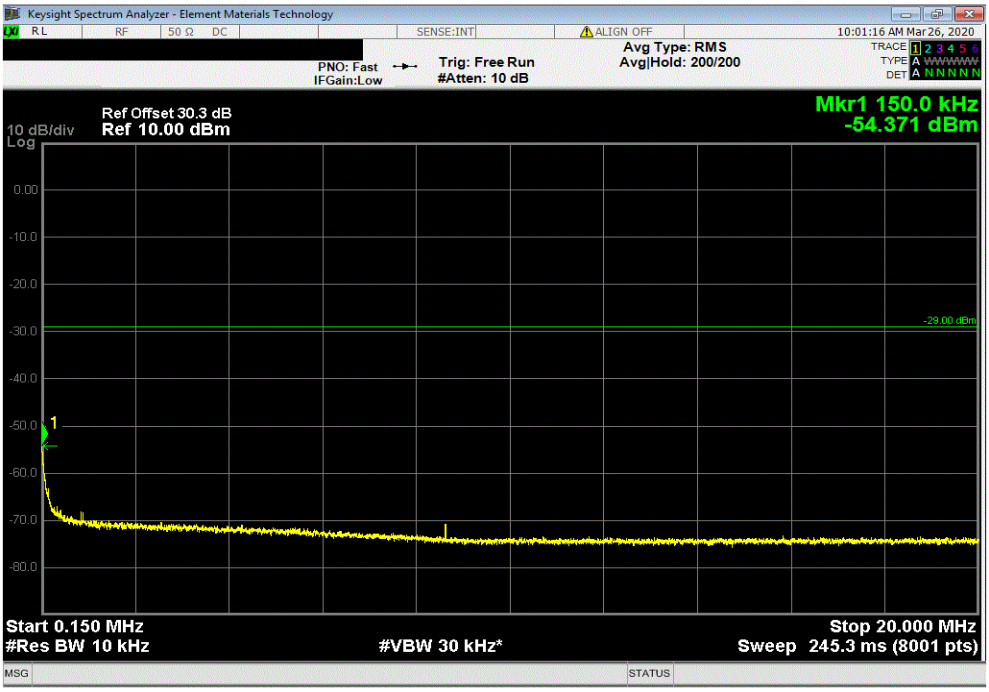
Band 12, 729 MHz -745 MHz, LTE, Port 1, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 7, 1559 MHz - 1610 MHz						
				Value (dBm)	Limit (dBm)	Result
				-64.39	-46	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 1, 9 kHz - 150 kHz						
				Value (dBm)	Limit (dBm)	Result
				-57.892	-39	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 2, 150 kHz - 20 MHz						
				Value (dBm)	Limit (dBm)	Result
				-54.371	-29	Pass



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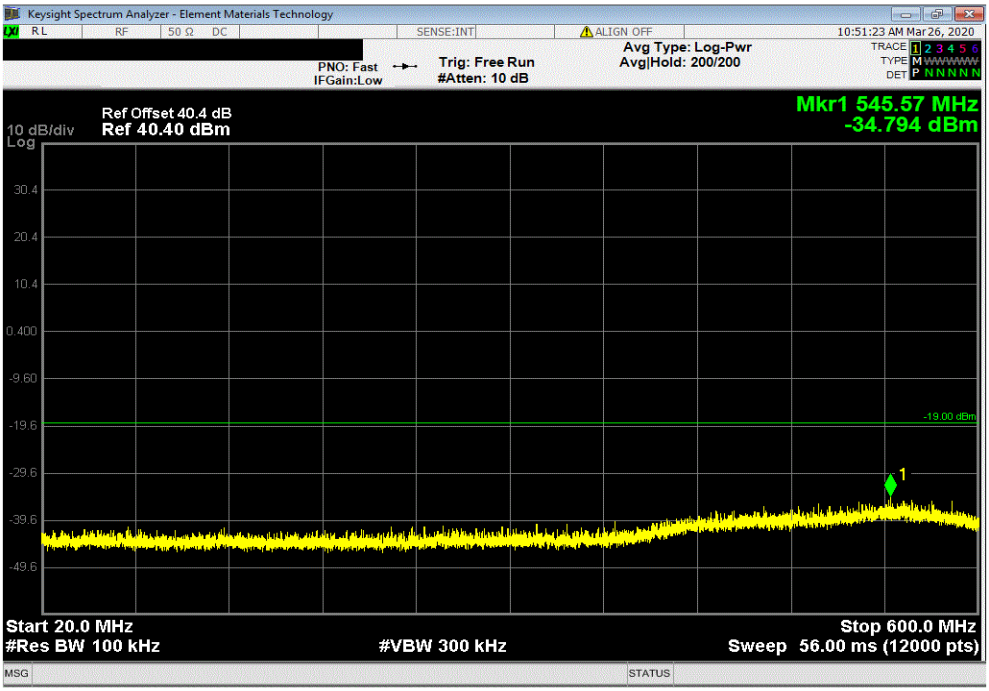
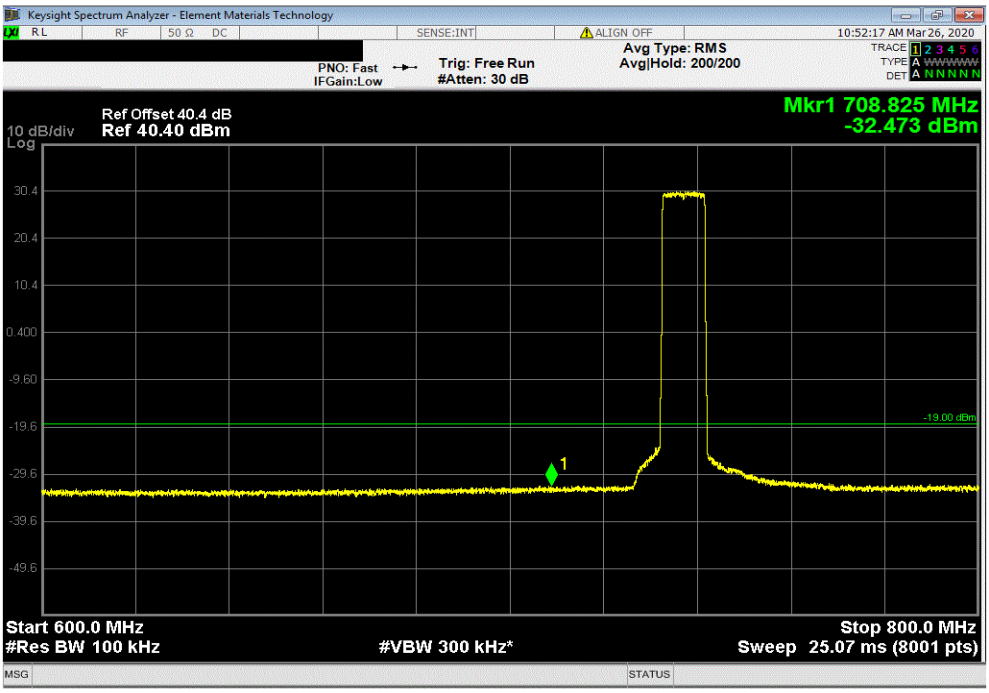
Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 3, 20 MHz - 600 MHz						
				Value (dBm)	Limit (dBm)	Result
				-34.794	-19	Pass

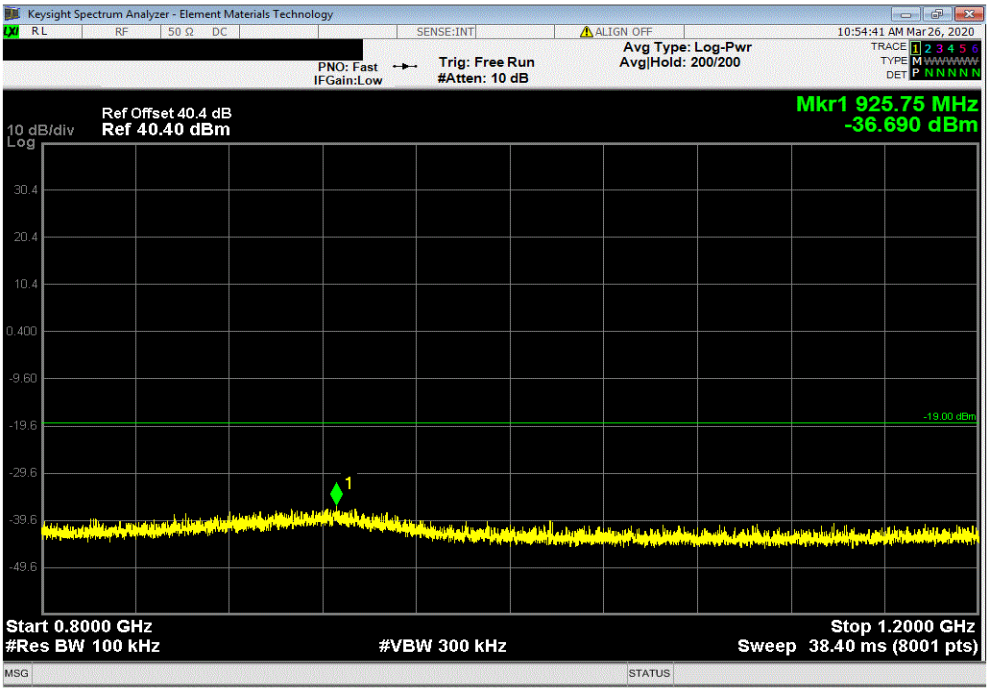


Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 4, 600 MHz - 800 MHz						
				Value (dBm)	Limit (dBm)	Result
				-32.473	-19	Pass



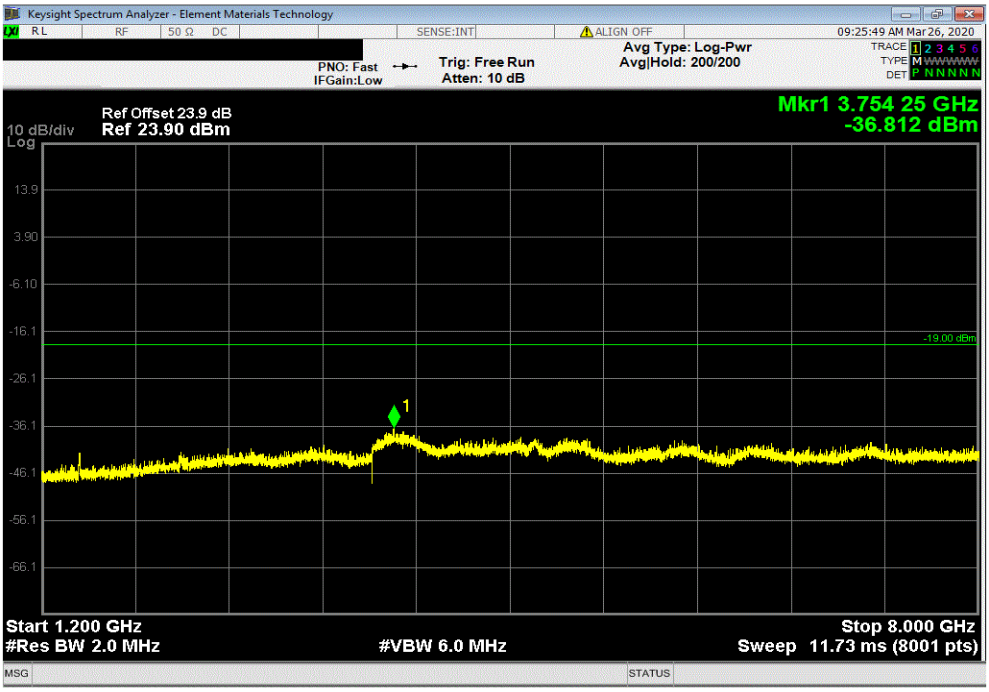
Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 5, 800 MHz - 1200 MHz

				Value (dBm)	Limit (dBm)	Result
				-36.69	-19	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 6, 1200 MHz - 8000 MHz

				Value (dBm)	Limit (dBm)	Result
				-36.812	-19	Pass



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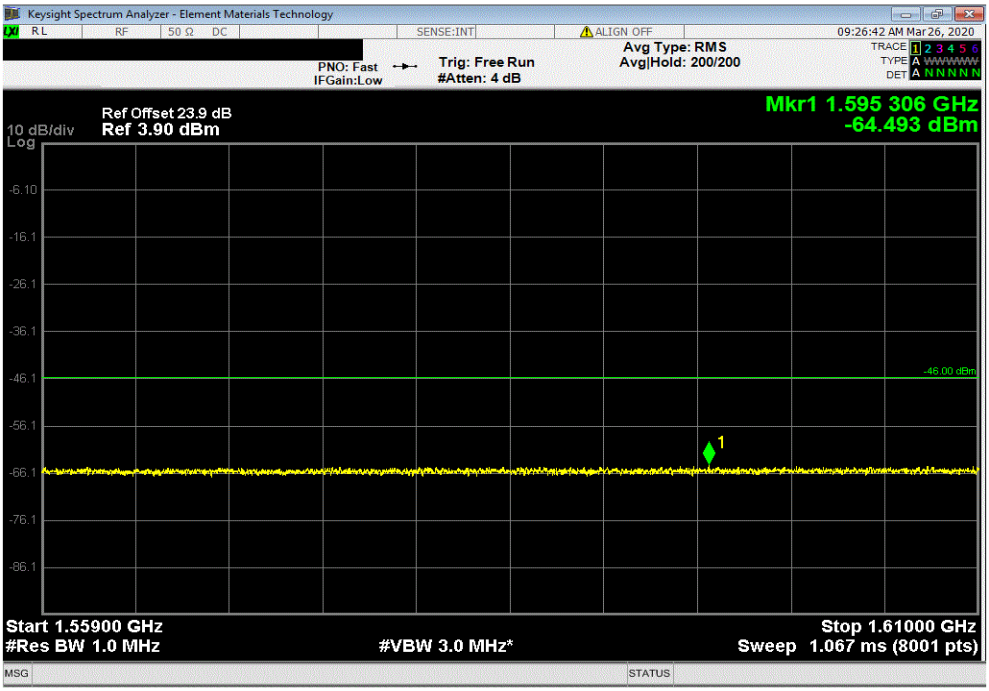
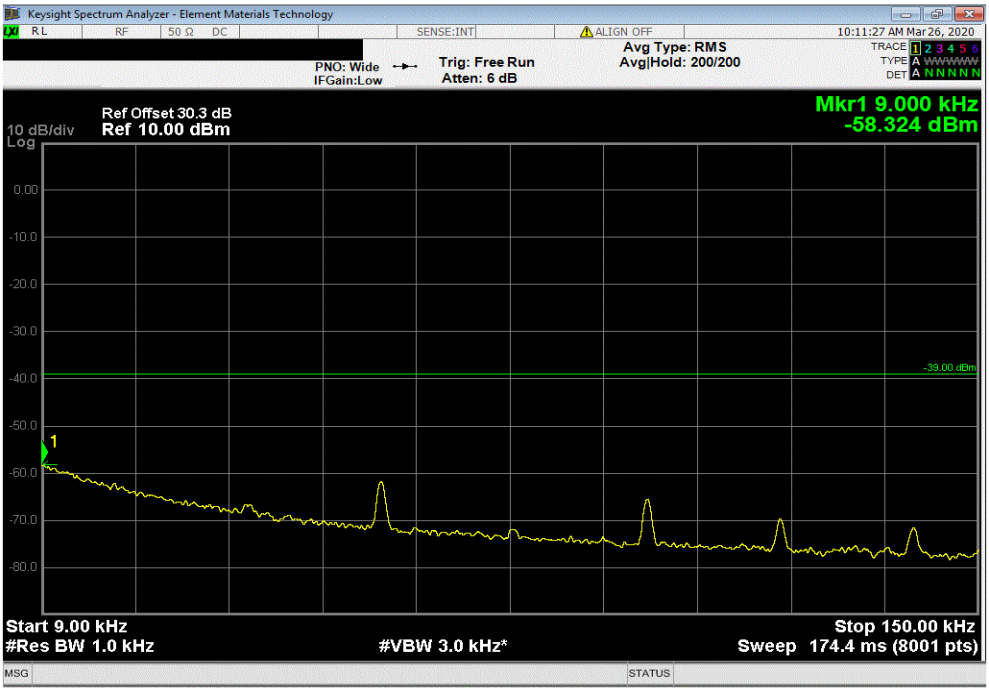
Band 12, 729 MHz -745 MHz, LTE, Port 2, 10 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 7, 1559 MHz - 1610 MHz						
				Value (dBm)	Limit (dBm)	Result
				-64.493	-46	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 2, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 1, 9 kHz - 150 kHz						
				Value (dBm)	Limit (dBm)	Result
				-58.324	-39	Pass



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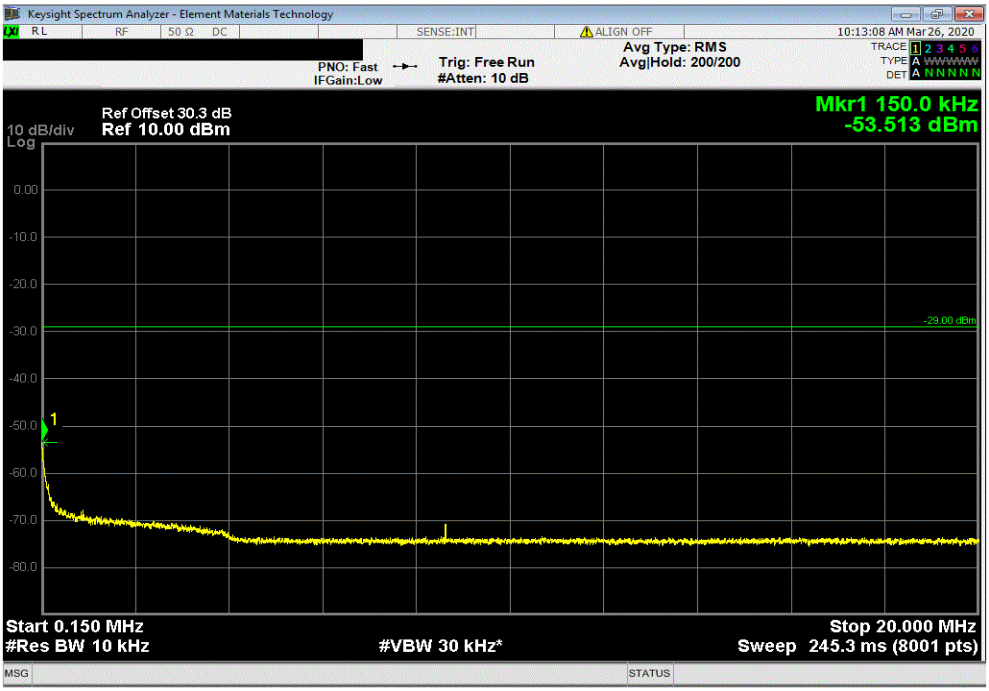
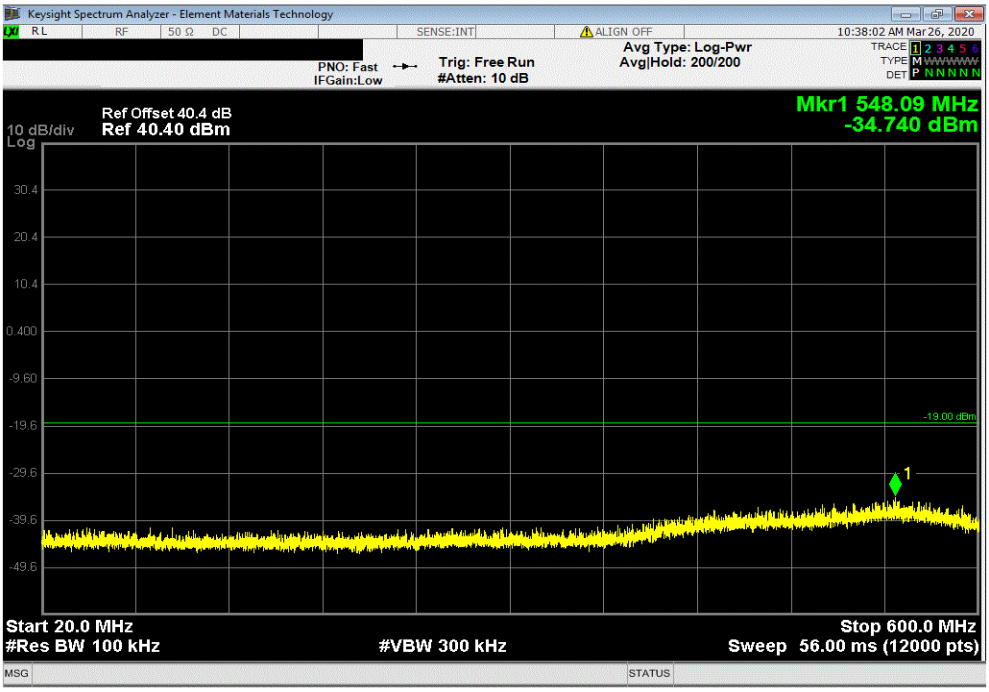
Band 12, 729 MHz -745 MHz, LTE, Port 2, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 2, 150 kHz - 20 MHz						
				Value (dBm)	Limit (dBm)	Result
				-53.513	-29	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 2, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 3, 20 MHz - 600 MHz						
				Value (dBm)	Limit (dBm)	Result
				-34.74	-19	Pass



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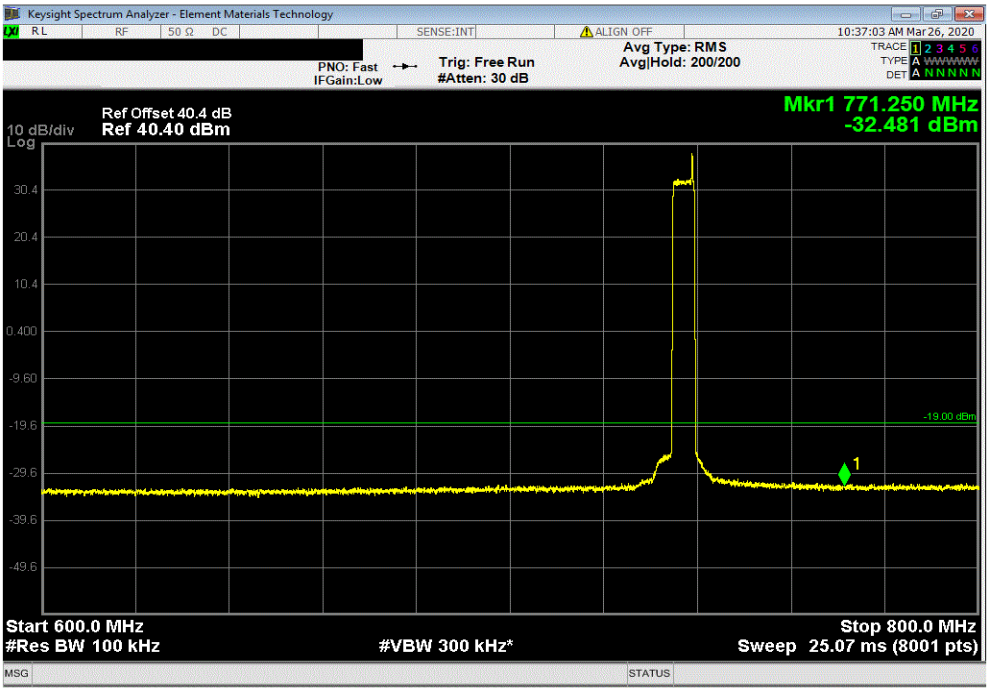
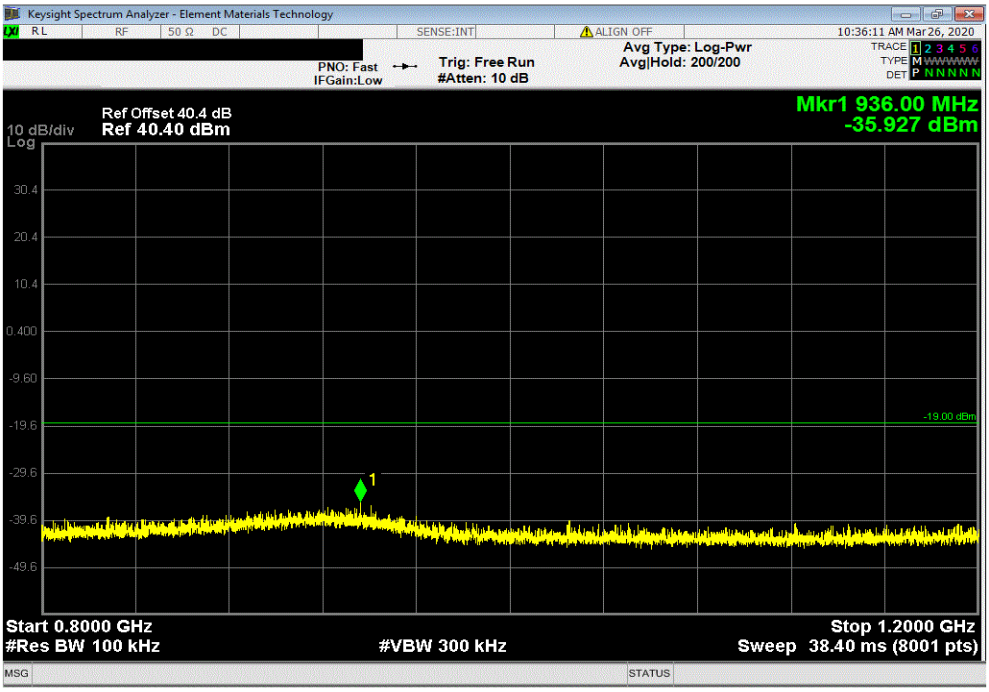
Band 12, 729 MHz -745 MHz, LTE, Port 2, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 4, 600 MHz - 800 MHz						
				Value (dBm)	Limit (dBm)	Result
				-32.481	-19	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 2, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 5, 800 MHz - 1200 MHz						
				Value (dBm)	Limit (dBm)	Result
				-35.927	-19	Pass



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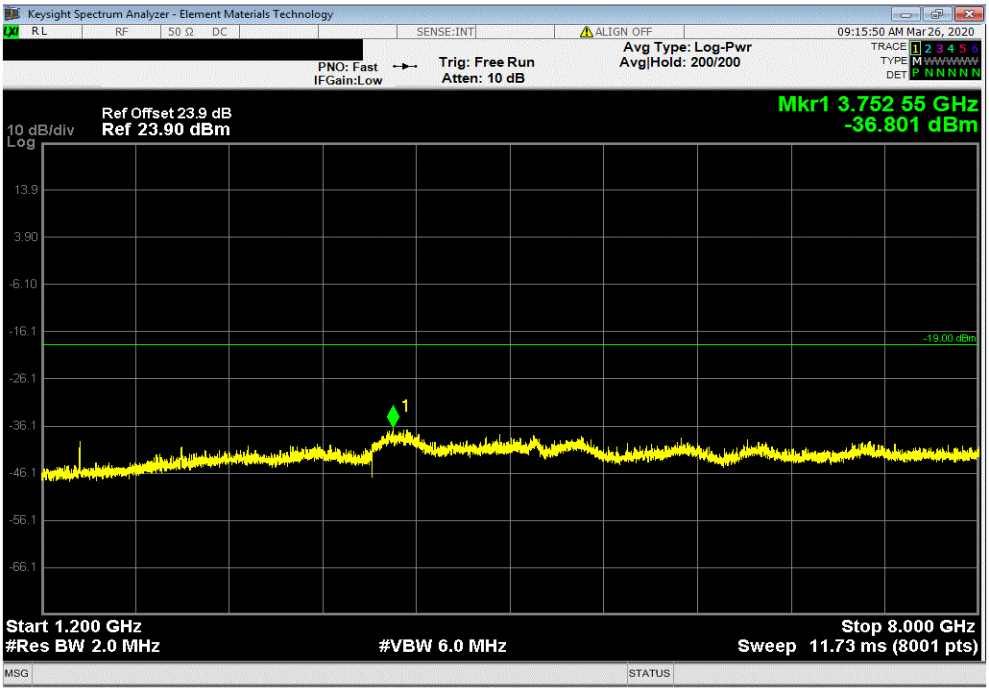
Band 12, 729 MHz -745 MHz, LTE, Port 2, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 6, 1200 MHz - 8000 MHz						
				Value (dBm)	Limit (dBm)	Result
				-36.801	-19	Pass



Band 12, 729 MHz -745 MHz, LTE, Port 2, 5 MHz Bandwidth, QPSK Modulation, Mid Channel , Range 7, 1559 MHz - 1610 MHz						
				Value (dBm)	Limit (dBm)	Result
				-64.465	-46	Pass