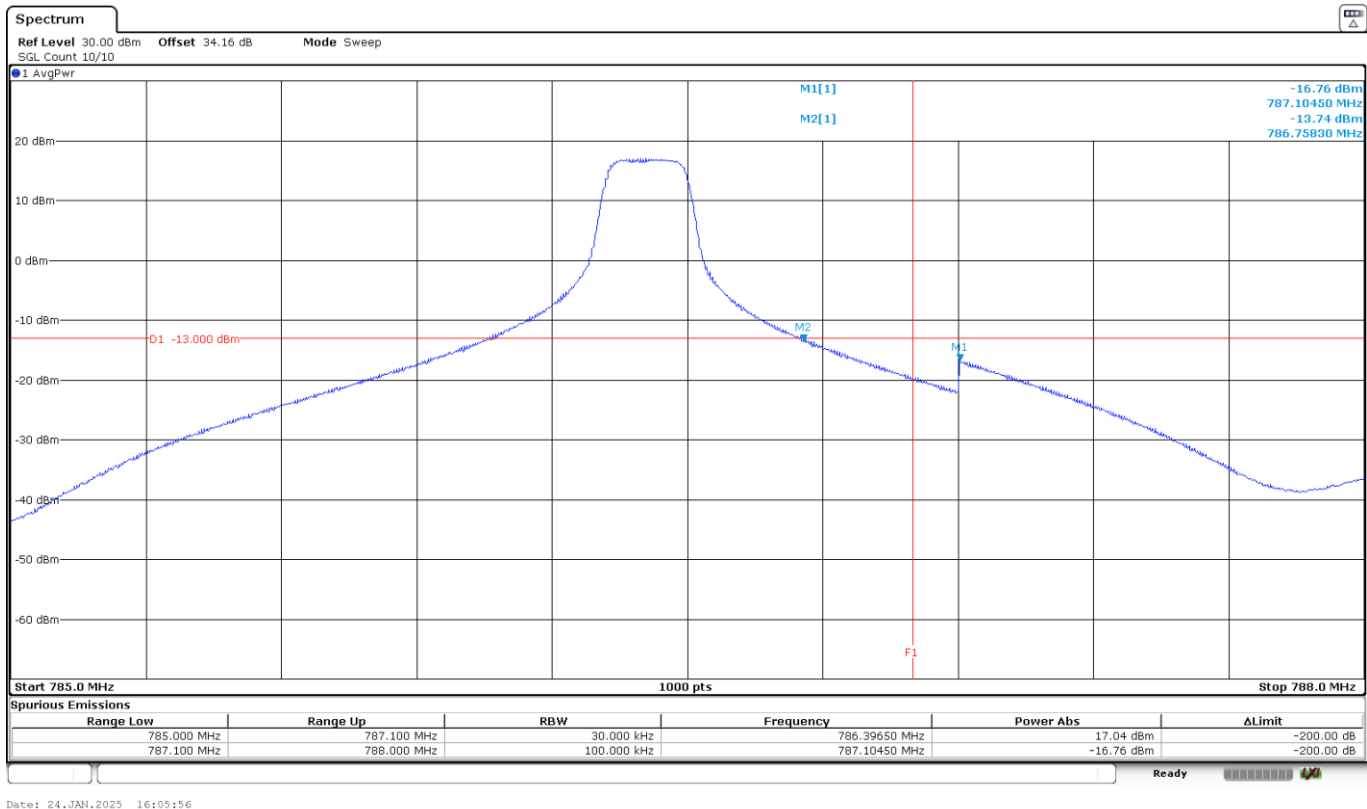
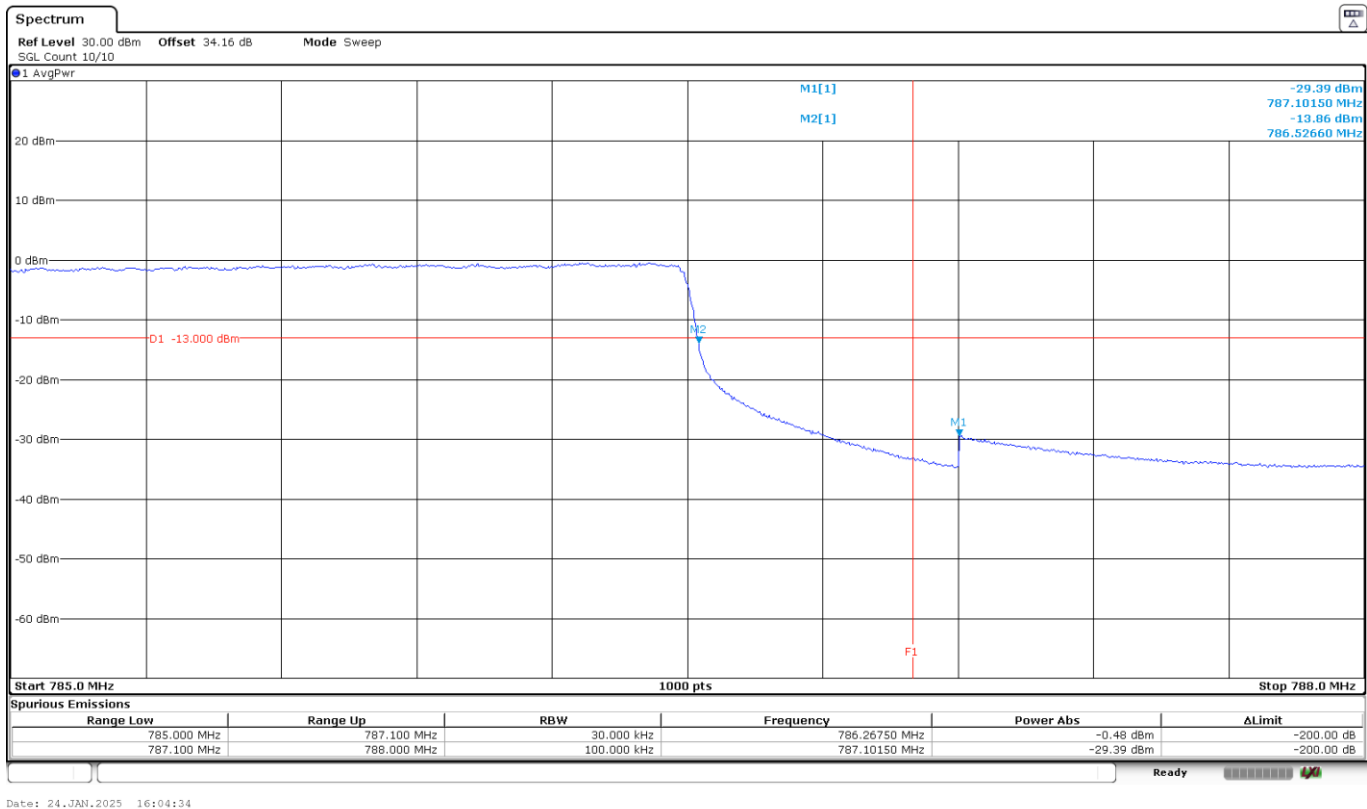


LTE Cat 1bis Band 13. BW=10 MHz. QPSK. RB=1. Offset=Max. High Block Edge:



The equipment transmits at the maximum output power

LTE Cat 1bis Band 13. BW=10 MHz. QPSK. RB=All. Offset=0. High Block Edge:



The equipment transmits at the maximum output power

LTE Cat 1bis Band 38:

Preliminary measurements determined QPSK. BW=10 MHz as the worst-case modulation in terms of band edge results. The next results are for this worst-case configuration.

Low Block Edge.

LTE Cat 1bis Band 38. QPSK:	RB=1. Offset = 0. BW = 5 MHz	RB=1. Offset = 0. BW = 10 MHz	RB=1. Offset = 0. BW = 15 MHz	RB=1. Offset = 0. BW = 20 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-17.29	-15.16	-17.3	-18.98

LTE Cat 1bis Band 38. QPSK:	RB = 6. Offset = 0. BW = 5 MHz	RB = 6. Offset = 0. BW = 10 MHz	RB = 6. Offset = 0. BW = 15 MHz	RB = 6. Offset = 0. BW = 20 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-25.76	-30.24	-33.6	-34.35 (ZOOM) -36.03 (NO ZOOM)

High Block Edge.

LTE Cat 1bis Band 38. QPSK:	RB=1. Offset = Max. BW = 5 MHz	RB=1. Offset = Max. BW = 10 MHz	RB=1. Offset = Max. BW = 15 MHz	RB=1. Offset = Max. BW = 20 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-18	-15.3	-17.9	-19.79

LTE Cat 1bis Band 38. QPSK:	RB = All. Offset = 0. BW = 5 MHz	RB = 6. Offset = 0. BW = 10 MHz	RB = 6. Offset = 0. BW = 15 MHz	RB = 6. Offset = 0. BW = 20 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-24.61	-30.05	-30.93	-33.16 (ZOOM) -33.48 (NO ZOOM)

Measurement uncertainty: <±2.76 dB

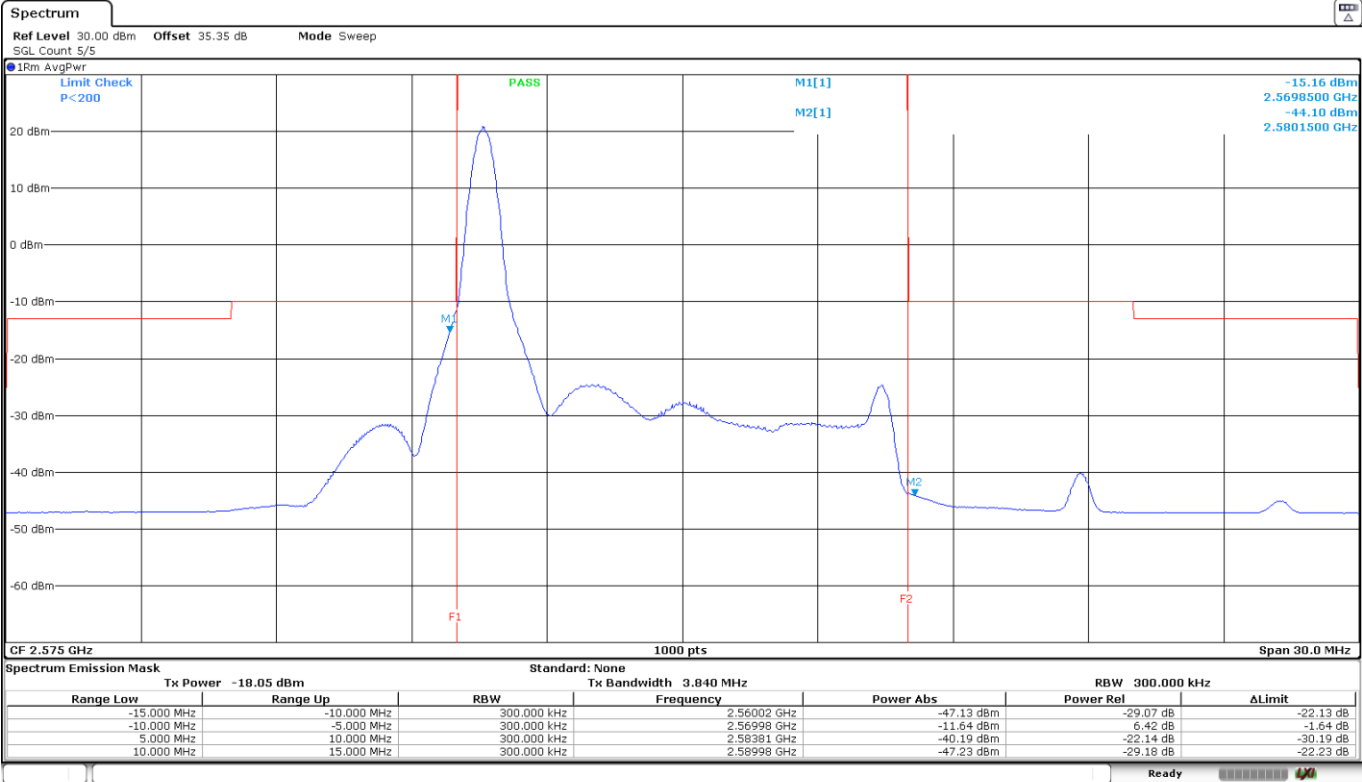
Verdict

PASS

The plots below are for the worst case configuration specified before.

LTE Cat 1bis Band 38:

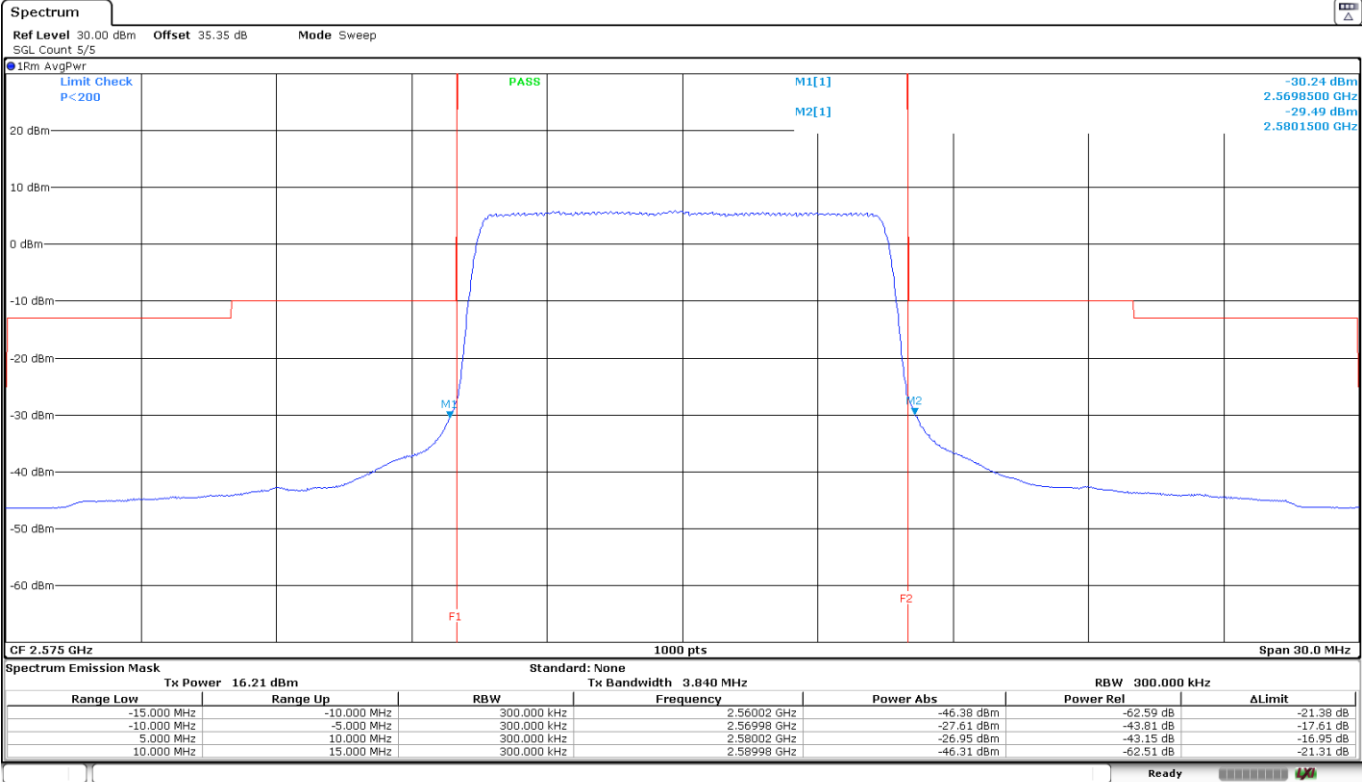
LTE Cat 1bis Band 38. BW=10 MHz. QPSK. RB=1. Offset=0. Low Block Edge:



Date: 4.FEB.2025 14:22:26

The equipment transmits at the maximum output power

LTE Cat 1bis Band 38. BW=10 MHz. QPSK. RB=All. Offset=0. Low Block Edge:



Date: 4.FEB.2025 14:12:45

The equipment transmits at the maximum output power

Spectrum

Ref Level 30.00 dBm Offset 35.35 dB Mode Sweep

SQL Count 5/5

1Rm AvgPwr

Limit Check P<200

PASS

M1[1] -15.30 dBm
2.6201500 GHz

M2[1] -44.48 dBm
2.6098500 GHz

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

F2

F1

CF 2.615 GHz

1000 pts

Span 30.0 MHz

Spectrum Emission Mask

Standard: None

Tx Power -17.94 dBm

Tx Bandwidth 3.840 MHz

RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-10.000 MHz	300.000 kHz	2.60002 GHz	-47.73 dBm	-29.79 dB	-22.73 dB
-10.000 MHz	-5.000 MHz	300.000 kHz	2.60616 GHz	-36.70 dBm	-18.76 dB	-26.70 dB
5.000 MHz	10.000 MHz	300.000 kHz	2.62002 GHz	-11.60 dBm	6.34 dB	-1.60 dB
10.000 MHz	15.000 MHz	300.000 kHz	2.62998 GHz	-47.45 dBm	-29.51 dB	-22.45 dB

Ready

The equipment transmits at the maximum output power

Spectrum

Ref Level 30.00 dBm Offset 35.35 dB Mode Sweep
SQL Count 5/5

● 1Rm AvgPwr

Limit Check P<200

PASS

M1[1]

M2[1]

-30.05 dBm
2.6201500 GHz
-29.33 dBm
2.6098500 GHz

CF 2.615 GHz

Standard: None

Tx Power 16.28 dBm		Tx Bandwidth 3.840 MHz		Power Abs		Power Rel		ΔLimit
Range Low	Range Up	RBW	Frequency					
-15.000 MHz	-10.000 MHz	300.000 kHz	2.60002 GHz	-46.62 dBm	-62.90 dB	-21.62 dB		
-10.000 MHz	-5.000 MHz	300.000 kHz	2.60998 GHz	-26.94 dBm	-43.22 dB	-16.94 dB		
5.000 MHz	10.000 MHz	300.000 kHz	2.62002 GHz	-27.96 dBm	-44.24 dB	-17.96 dB		
10.000 MHz	15.000 MHz	300.000 kHz	2.62998 GHz	-46.13 dBm	-62.41 dB	-21.13 dB		

The equipment transmits at the maximum output power

LTE Cat 1bis Band 41:

Preliminary measurements determined QPSK. BW=10 MHz as the worst-case modulation in terms of band edge results. The next results are for this worst-case configuration.

Low Block Edge.

LTE Cat 1bis Band 41. QPSK:	RB=1. Offset = 0. BW = 5 MHz	RB=1. Offset = 0. BW = 10 MHz	RB=1. Offset = 0. BW = 15 MHz	RB=1. Offset = 0. BW = 20 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-18.01	-17.16	-18.18	-24.08

LTE Cat 1bis Band 41. QPSK:	RB = 6. Offset = 0. BW = 5 MHz	RB = 6. Offset = 0. BW = 10 MHz	RB = 6. Offset = 0. BW = 15 MHz	RB = 6. Offset = 0. BW = 20 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-18.72	-18.6	-18.09	-20.92

High Block Edge.

LTE Cat 1bis Band 41. QPSK:	RB=1. Offset = Max. BW = 5 MHz	RB=1. Offset = Max. BW = 10 MHz	RB=1. Offset = Max. BW = 15 MHz	RB=1. Offset = Max. BW = 20 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-26.36	-30.72	-34.37	-36.91 (NO ZOOM) -37.14 (ZOOM)

LTE Cat 1bis Band 41. QPSK:	RB = All. Offset = 0. BW = 5 MHz	RB = 6. Offset = 0. BW = 10 MHz	RB = 6. Offset = 0. BW = 15 MHz	RB = 6. Offset = 0. BW = 20 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-26.85	-31.32	-33.6	-36.69 (NO ZOOM) - 36.15 (ZOOM)

Measurement uncertainty: <±2.76 dB

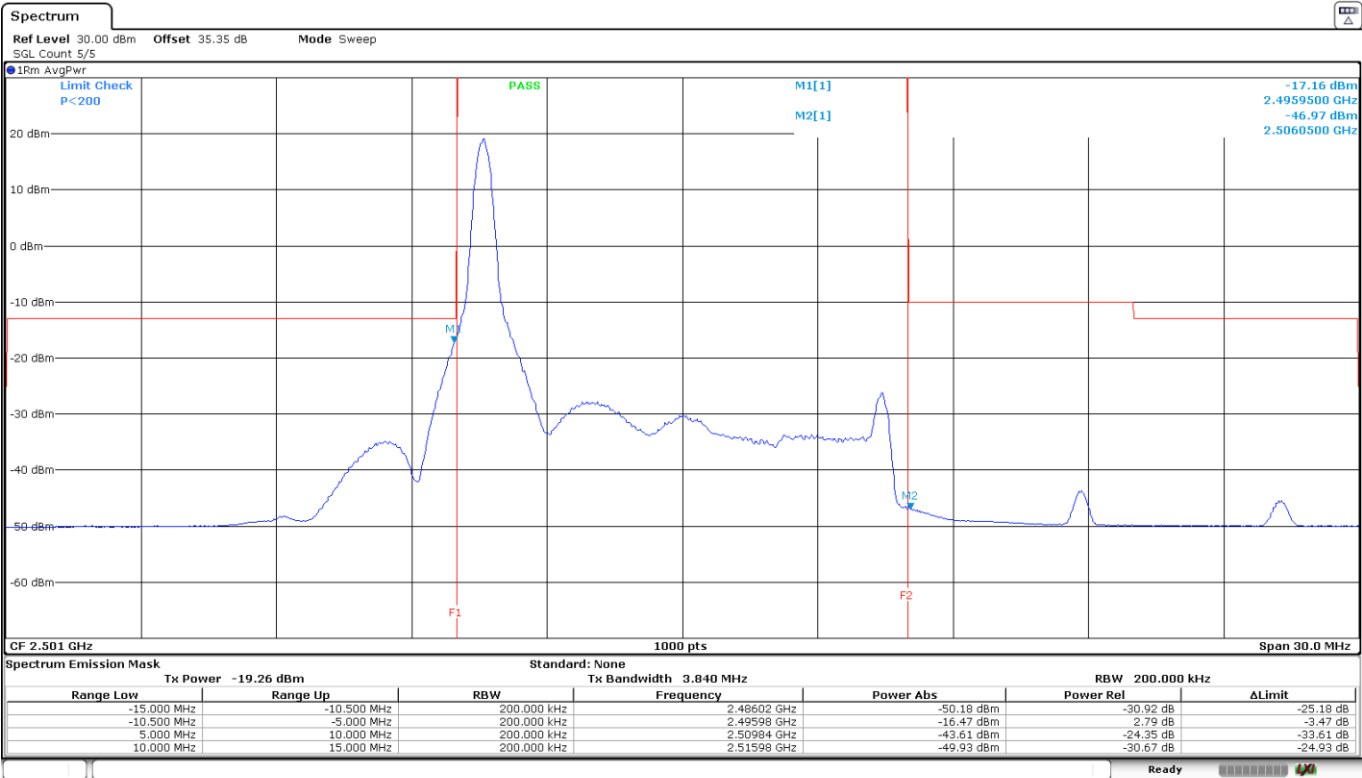
Verdict

PASS

The plots below are for the worst case configuration specified before.

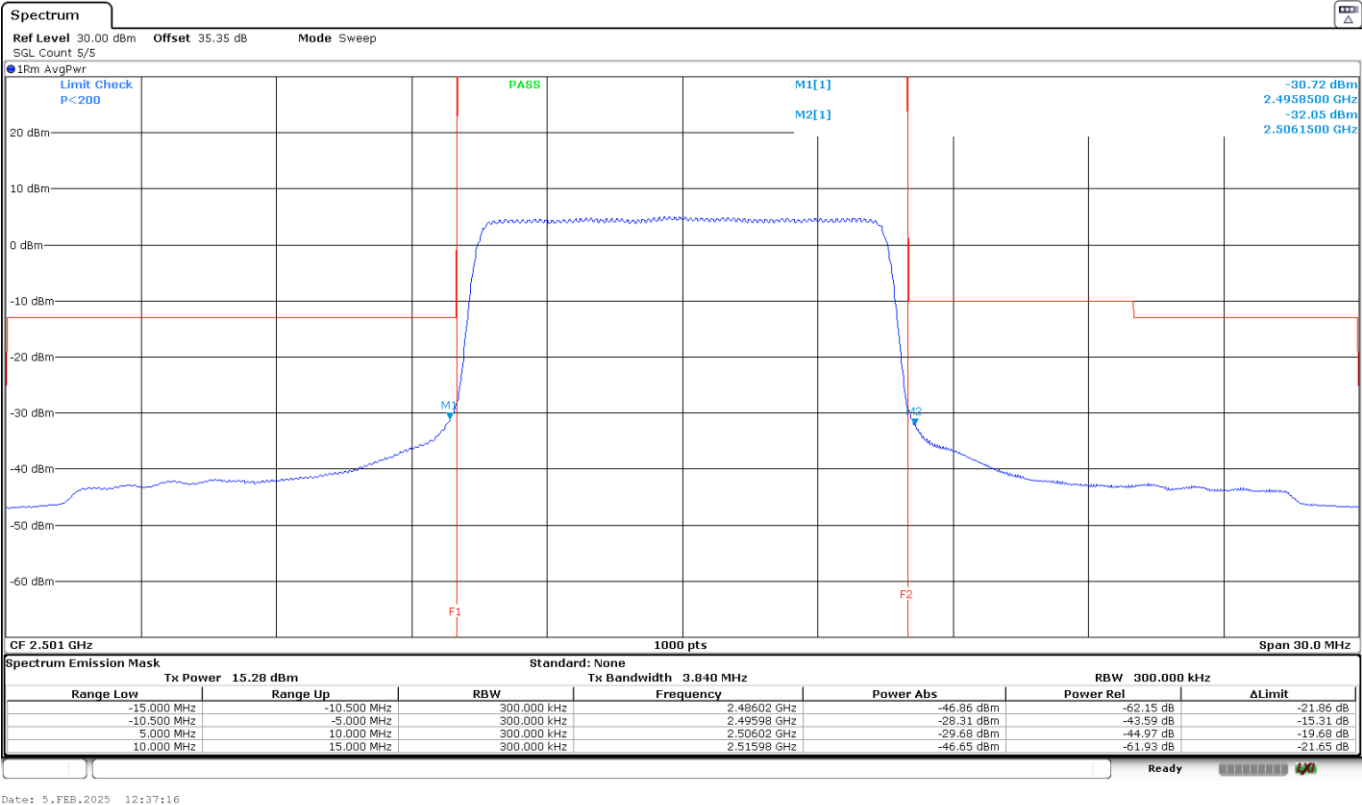
LTE Cat 1bis Band 41:

LTE Cat 1bis Band 41. BW=10 MHz. QPSK. RB=1. Offset=0. Low Block Edge:



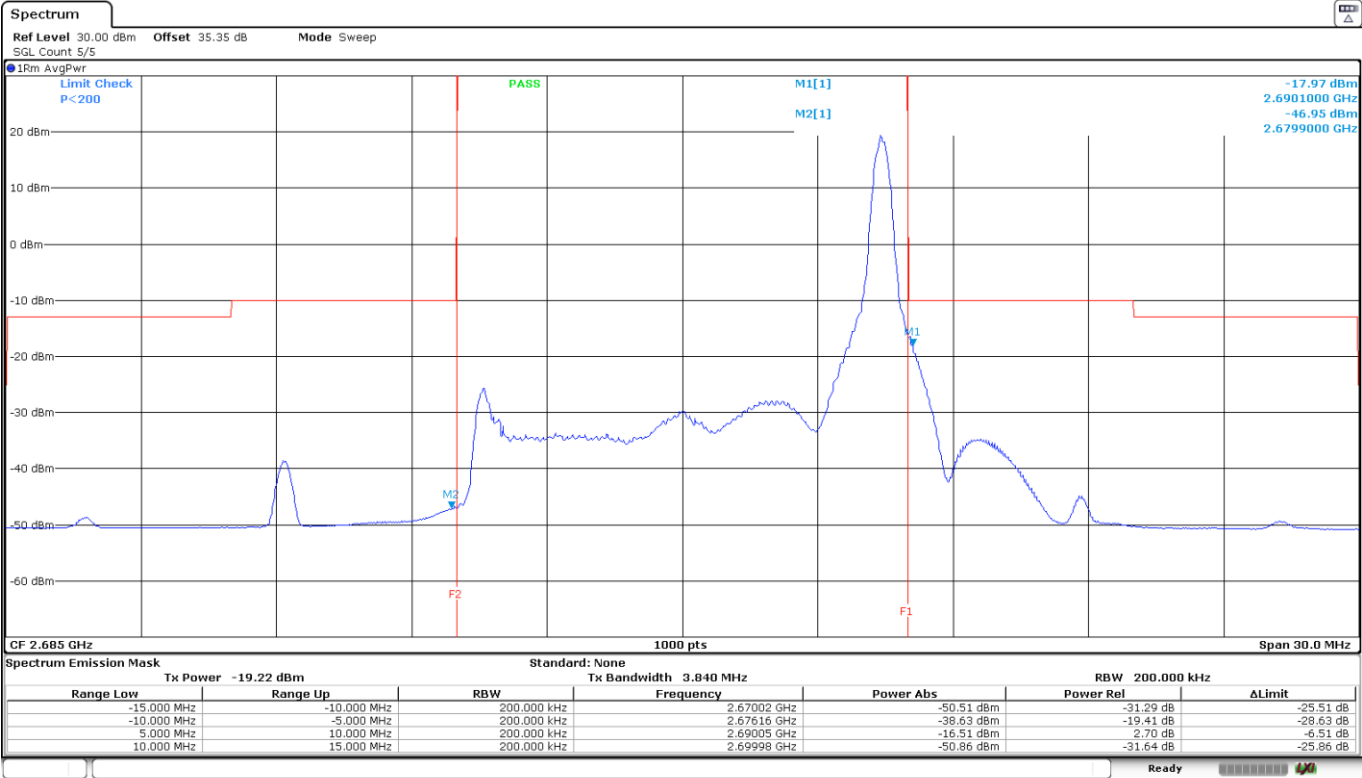
The equipment transmits at the maximum output power

LTE Cat 1bis Band 41. BW=10 MHz. QPSK. RB=All. Offset=0. Low Block Edge:



The equipment transmits at the maximum output power

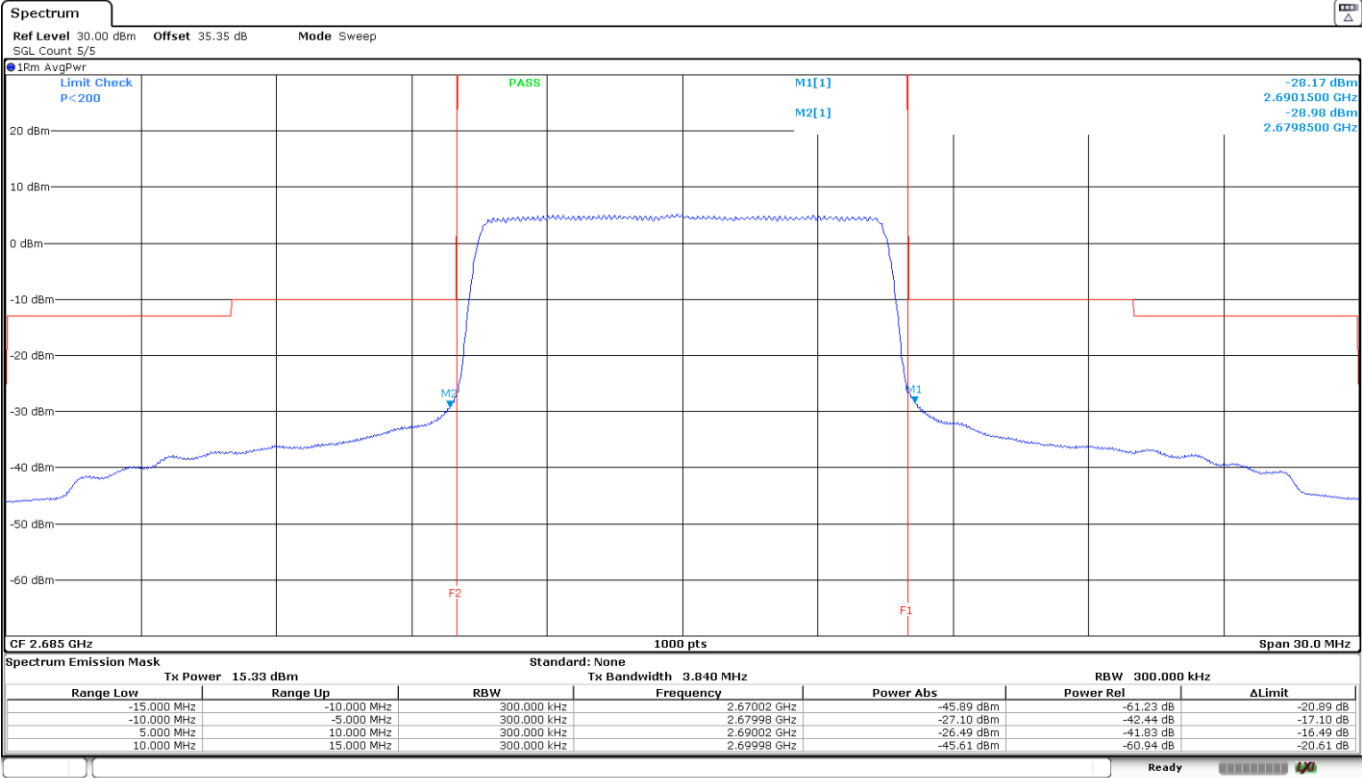
LTE Cat 1bis Band 41. BW=10 MHz. QPSK. RB=1. Offset=Max. High Block Edge:



Date: 5.FEB.2025 14:13:46

The equipment transmits at the maximum output power

LTE Cat 1bis Band 41. BW=10 MHz. QPSK. RB=All. Offset=0. High Block Edge:



Date: 5.FEB.2025 14:17:38

The equipment transmits at the maximum output power

LTE Cat 1bis Band 66:

Preliminary measurements determined QPSK. BW=5 MHz as the worst-case modulation in terms of band edge results. The next results are for this worst-case configuration.

Low Block Edge.

LTE Cat 1bis Band 66. QPSK:	RB=1. Offset = 0. BW = 1.4 MHz	RB=1. Offset = 0. BW = 3 MHz	RB=1. Offset = 0. BW = 5 MHz	RB=1. Offset = 0. BW = 10 MHz	RB=1. Offset = 0. BW = 15 MHz	RB=1. Offset = 0. BW = 20 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-22.36	-21.46	-20.66	-22.79	-25.35	-28.29

LTE Cat 1bis Band 66. QPSK:	RB = 6. Offset = 0. BW = 1.4 MHz	RB = 6. Offset = 0. BW = 3 MHz	RB = 6. Offset = 0. BW = 5 MHz	RB = 6. Offset = 0. BW = 10 MHz	RB = 6. Offset = 0. BW = 15 MHz	RB = 6. Offset = 0. BW = 20 MHz
Maximum measured level at <u>Low Block Edge</u> at antenna port (dBm)	-28.77	-24.14	-24.65	-25.54	-28.32	-29.73

High Block Edge.

LTE Cat 1bis Band 66. QPSK:	RB=1. Offset=Max. BW = 1.4 MHz	RB=1. Offset=Max. BW = 3 MHz	RB=1. Offset=Max. BW = 5 MHz	RB=1. Offset=Max. BW = 10 MHz	RB=1. Offset=Max. BW = 15 MHz	RB=1. Offset=Max. BW = 20 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-23.34	-22.95	-21.01	-23.14	-25.44	-28.75

LTE Cat 1bis Band 66. QPSK:	RB = 6. Offset =0. BW = 1.4 MHz	RB = 6. Offset =0. BW = 3 MHz	RB = 6. Offset =0. BW = 5 MHz	RB = 6. Offset =0. BW = 10 MHz	RB = 6. Offset =0. BW = 15 MHz	RB = 6. Offset =0. BW = 20 MHz
Maximum measured level at <u>High Block Edge</u> at antenna port (dBm)	-29.67	-24.71	-25.92	-26.7	-29.24	-32.21

Measurement uncertainty: <±2.76 dB

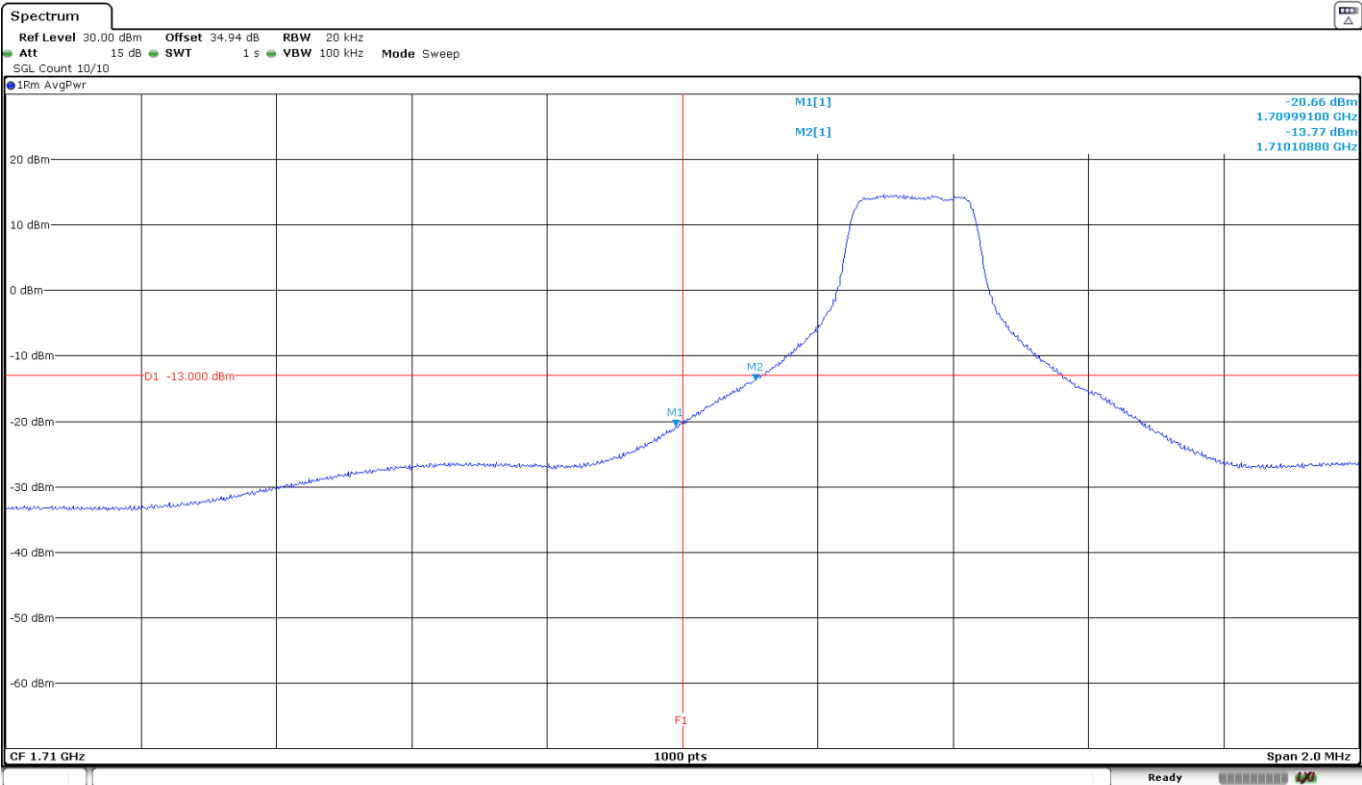
Verdict

PASS

The plots below are for the worst case configuration specified before.

LTE Cat 1bis Band 66:

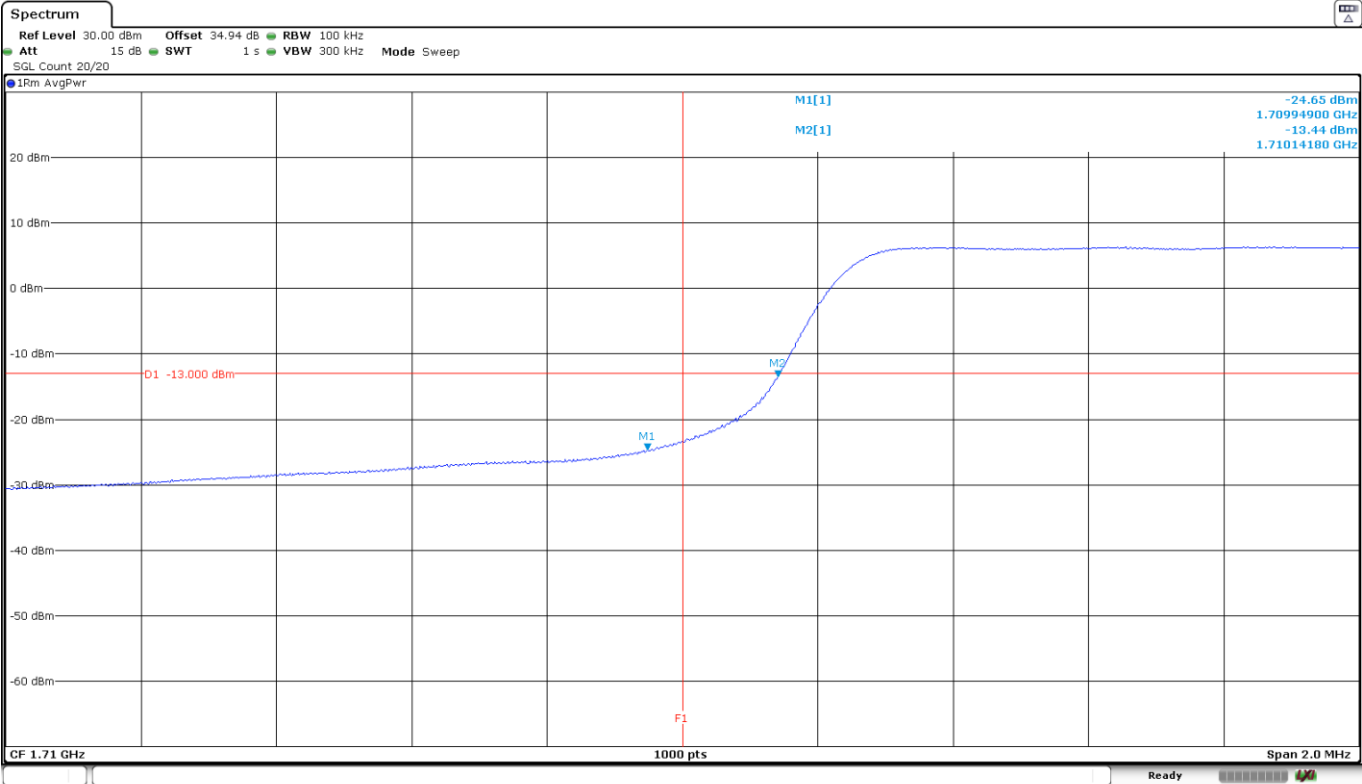
LTE Cat 1bis Band 66. BW=5 MHz. QPSK. RB=1. Offset=0. Low Block Edge:



Date: 27.JAN.2025 10:11:37

The equipment transmits at the maximum output power

LTE Cat 1bis Band 66. BW=5 MHz. QPSK. RB=All. Offset=0. Low Block Edge:



Date: 27.JAN.2025 11:30:19

The equipment transmits at the maximum output power



Radiated Emissions

Limits

1. LTE Cat 1bis Band 12. FCC §27.53 (g) / RSS-130 Clause 4.7.

FCC §27.53 (g):

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

RSS-130 Clause 4.7:

4.7.1 General unwanted emissions limits

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

2. LTE Cat 1bis Band 13. FCC §27.53 (c) / RSS-130 Clause 4.7.

FCC §27.53 (c):

On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. Compliance is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations. Compliance is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

RSS-130 Clause 4.7:

4.7.1 General unwanted emissions limits:

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

4.7.2 Additional unwanted emissions limits:

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

a. the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

- i. $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
- ii. $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

b. the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

3. LTE Cat 1bis Band 41. FCC §27.53 (m) (4) (6) / RSS-199 Clause 5.5:

FCC §27.53 (m) (4) (6):

(m) For BRS and EBS stations, the power of any emissions outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) measured in watts in accordance with the standards below. If a licensee has multiple contiguous channels, out-of-band emissions shall be measured from the upper and lower edges of the contiguous channels.

(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

RSS-199 Clause 5.5:

4.7.1 General unwanted emissions limits:

4. LTE Cat 1bis Band 66. FCC §27.53 (h) / RSS-139 5.6.

FCC §27.53 (h) / RSS-139 5.6:

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group	Unwanted emission limits
1 MHz	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz

*OB is the occupied bandwidth.

In addition to complying with the above limits, equipment operating in the band 2180-2200 MHz may require additional filtering (see SRSP-519).

Method

The measurement was performed with the EUT inside an anechoic chamber. The spectrum was scanned from 30 MHz to at least the 10th harmonic of the High frequency generated within the equipment.

The EUT was placed on a non-conductive stand at 3-meter distance from the measuring antenna for measurements up to 17 GHz. Measurements above 17 GHz require the distance to be reduced to 1.5 meters.

Detected emissions were maximized at each frequency by rotating the EUT and adjusting the height and polarization of the measuring antenna. The maximum meter reading was recorded.

Measurement Limits:

At P_o transmitting power. the specified minimum attenuation $43 + 10 \log_{10} p$ (watts) becomes:

$$P_o \text{ (dBm)} - [43 + 10 \log (P_o \text{ in mwatts}) - 30] = -13 \text{ dBm}$$

At P_o transmitting power. the specified minimum attenuation $65 + 10 \log_{10} p$ (watts) becomes:

$$P_o \text{ (dBm)} - [65 + 10 \log (P_o \text{ in mwatts}) - 30] = -35 \text{ dBm}$$

For operation in band 13. the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW (-40 dBm) per MHz for wideband signals. and -80 dBW (-50 dBm) for discrete emissions of less than 700 Hz bandwidth.

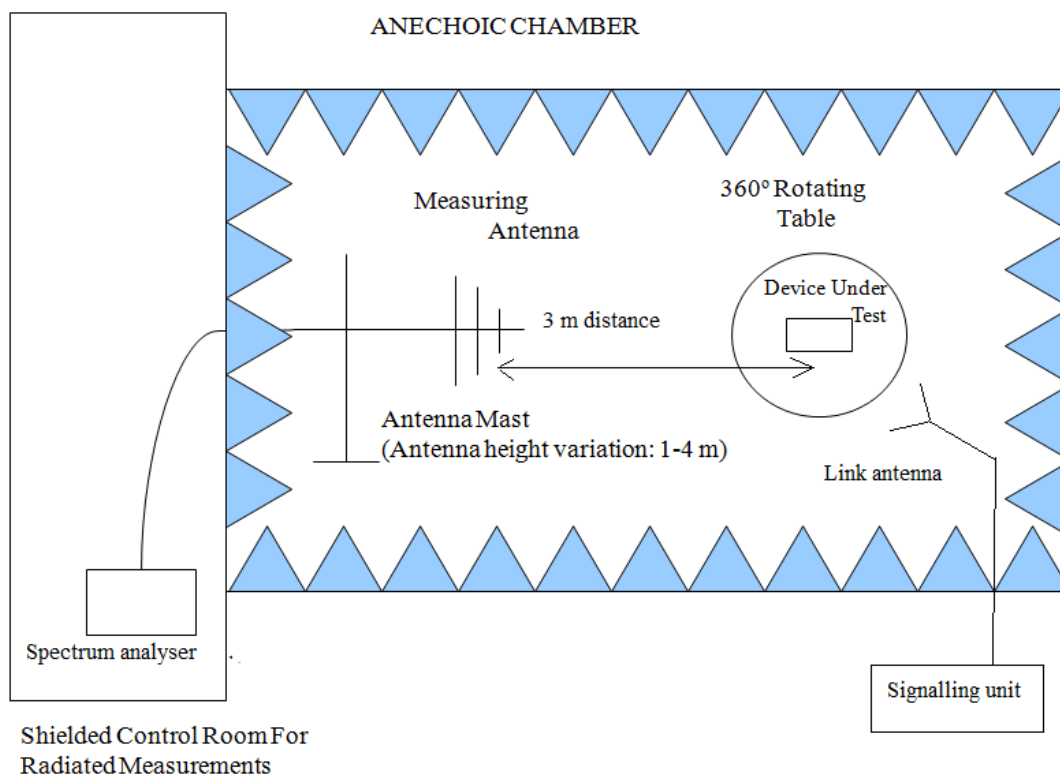
The maximum field strength (dB μ V/m) of each detected emission at less than 20 dB respect to the limit is converted to an equivalent EIRP level (dBm) according to ANSI C63.26 with the formula:

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log(D) - 104.8;$$

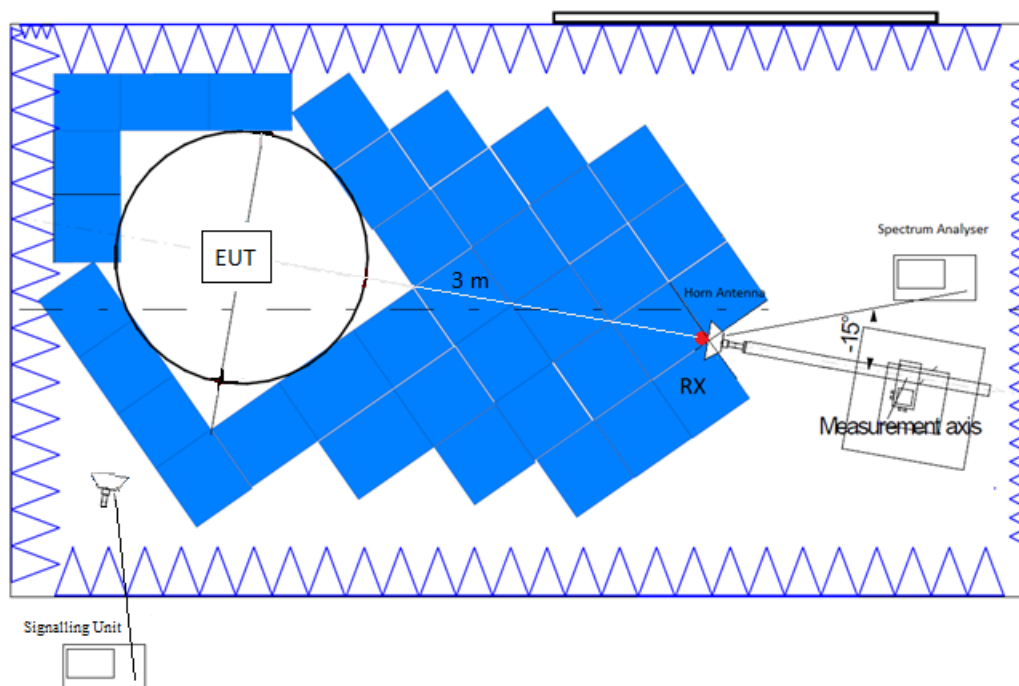
where D is the measurement distance (in the far field region) in m. $D = 3\text{m}$.

Test Setup

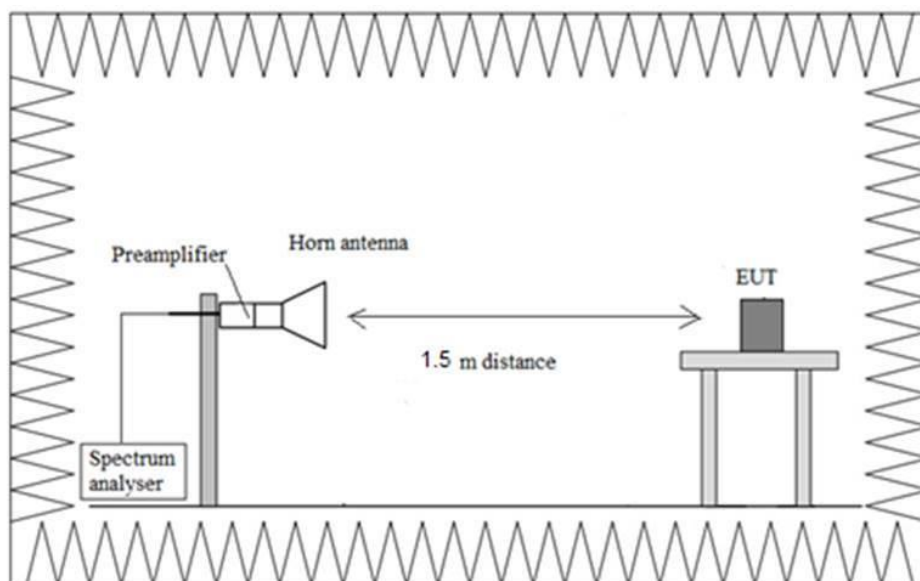
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements above 17 GHz:



Results

Test was performed on worst-case channel in terms of radiated spurious emissions. determined by a preliminary scan for each band.

LTE Cat 1bis Band 12:

A preliminary scan determined the QPSK. BW=10 MHz. RB Size=1. RB Offset=0 as the worst case. The next results are for this worst-case configuration.

Frequency range 30 MHz - 1 GHz:

- LOW CHANNEL:

No spurious frequencies at less than 20 dB below the limit.

- MIDDLE CHANNEL:

No spurious frequencies at less than 20 dB below the limit.

- HIGH CHANNEL:

No spurious frequencies at less than 20 dB below the limit.

Frequency range 1 - 10 GHz:

- LOW CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
2098.800000	-34.86	H	Peak
2798.400000	-35.59	V	Peak

- MIDDLE CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
2109.266667	-29.22	H	Peak

- HIGH CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
2119.800000	-38.22	H	Peak

Measurement uncertainty (dB) $< \pm 5.35$ for $f < 1$ GHz
 $< \pm 4.32$ for $f \geq 1$ GHz up to 8 GHz

Verdict

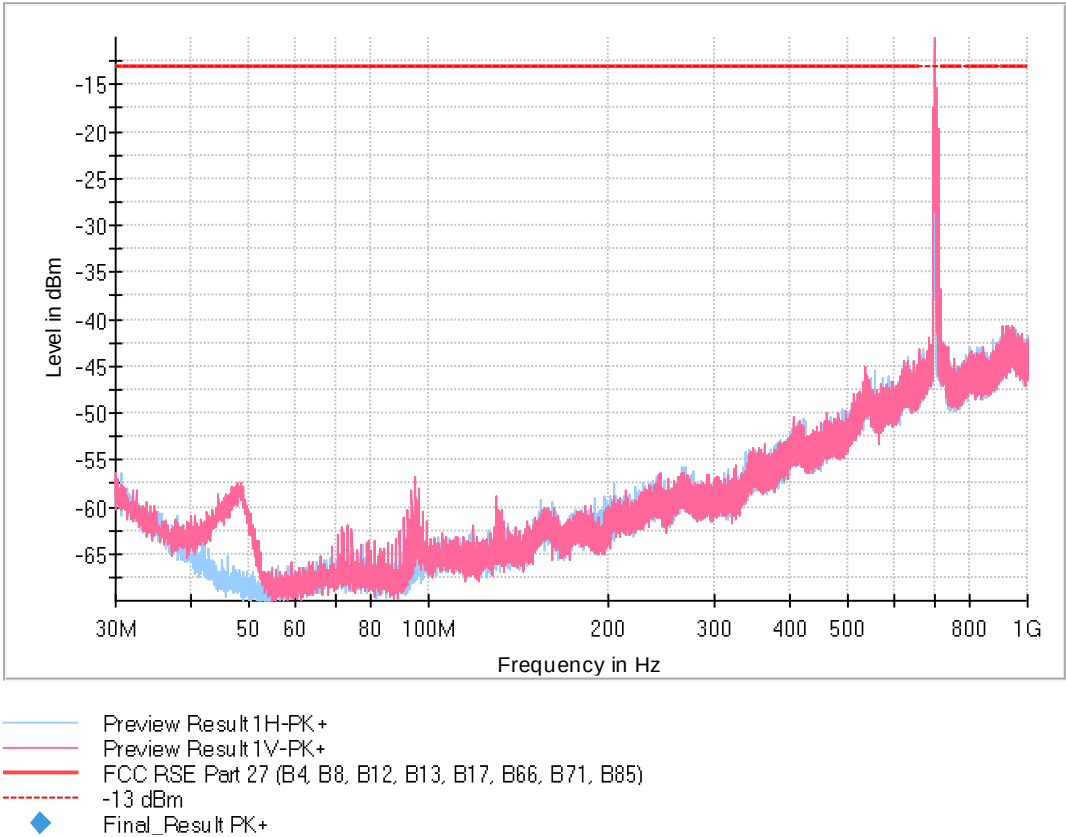
Pass

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	30.312 kHz	PK+	100 kHz	Coupled	0 dB
1 GHz - 10 GHz	281.25 kHz	PK+	100 kHz	1 s	0 dB

LTE Cat 1bis Band 12:

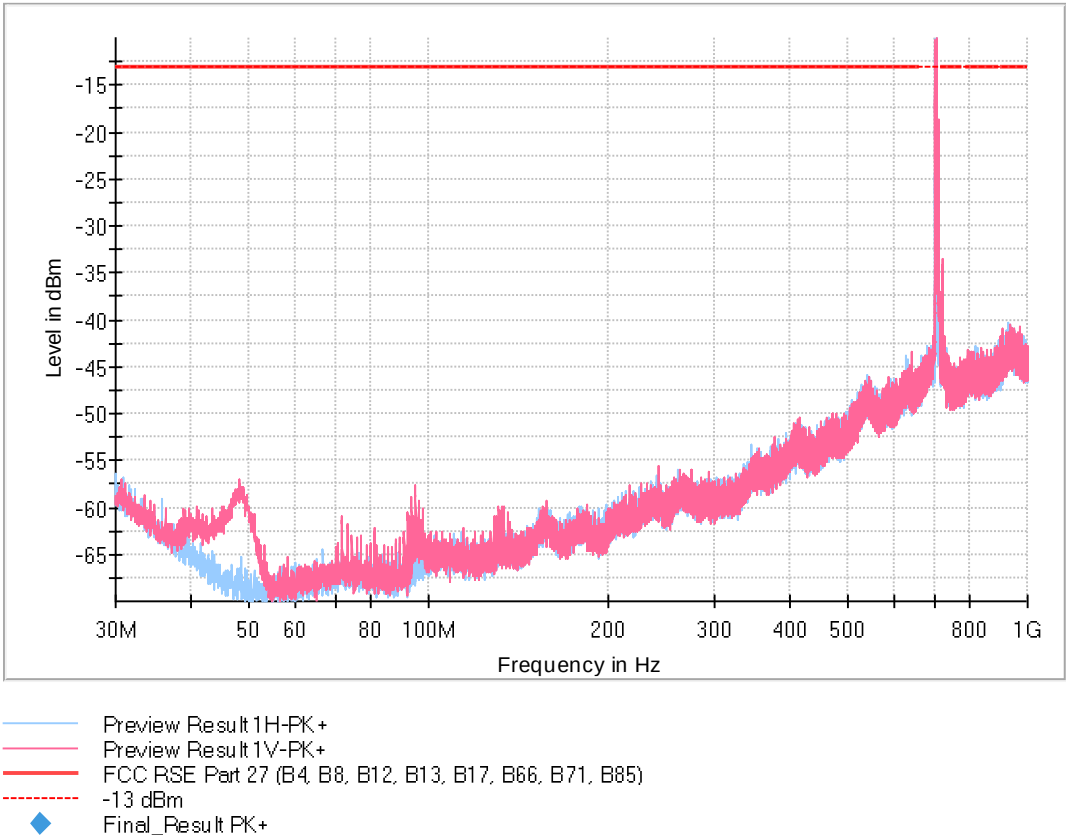
FREQUENCY RANGE 30 MHz - 1 GHz:

- LOW CHANNEL:



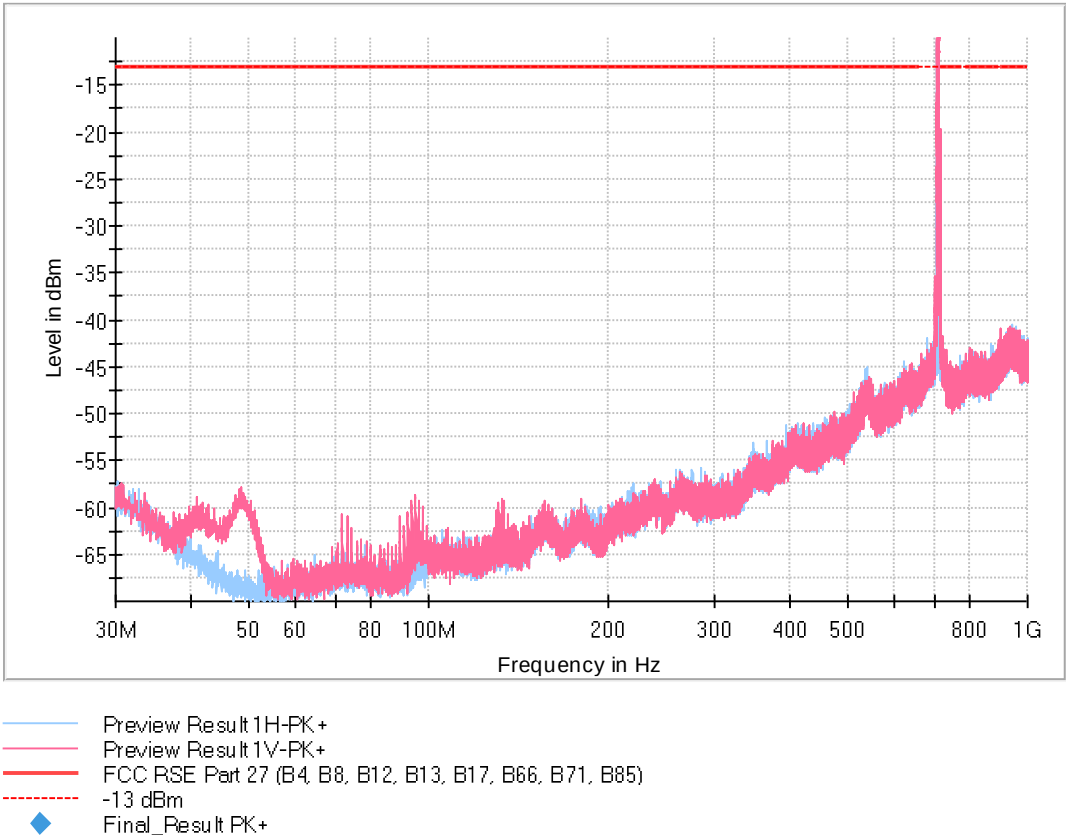
The peak above the limit is the LTE Cat 1bis Band 12 carrier frequency.

- MIDDLE CHANNEL:



The peak above the limit is the LTE Cat 1bis Band 12 carrier frequency.

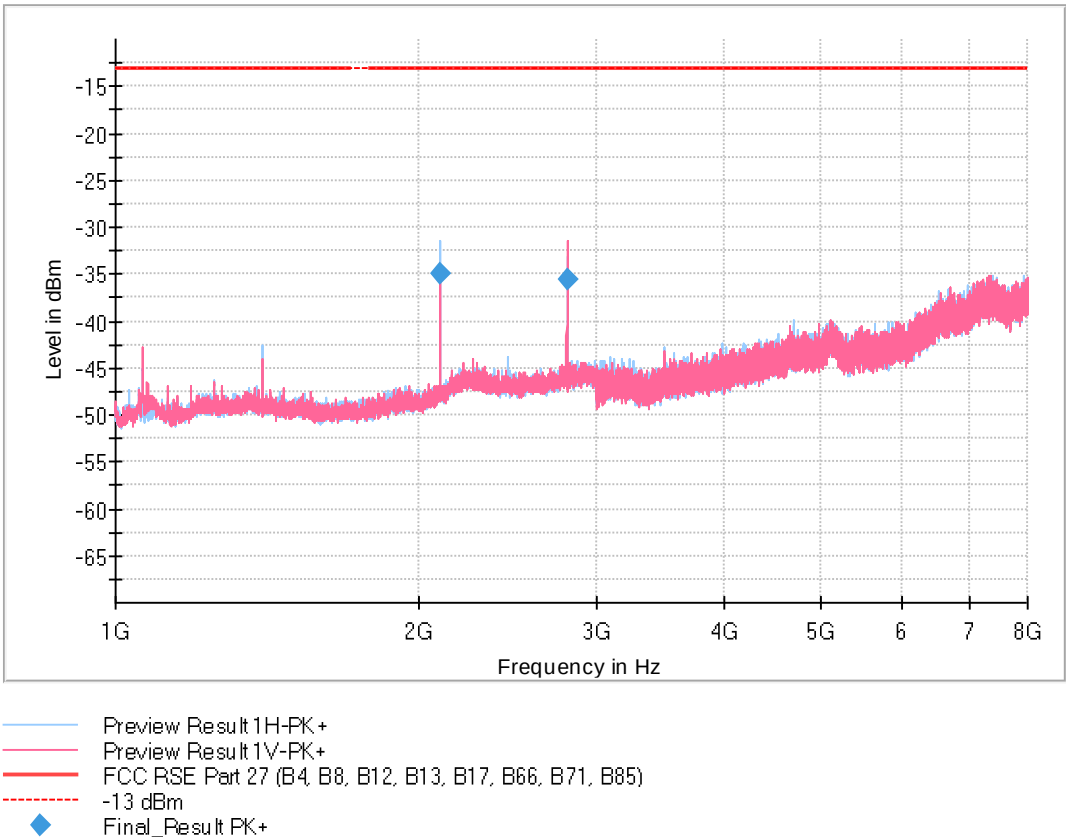
- HIGH CHANNEL:



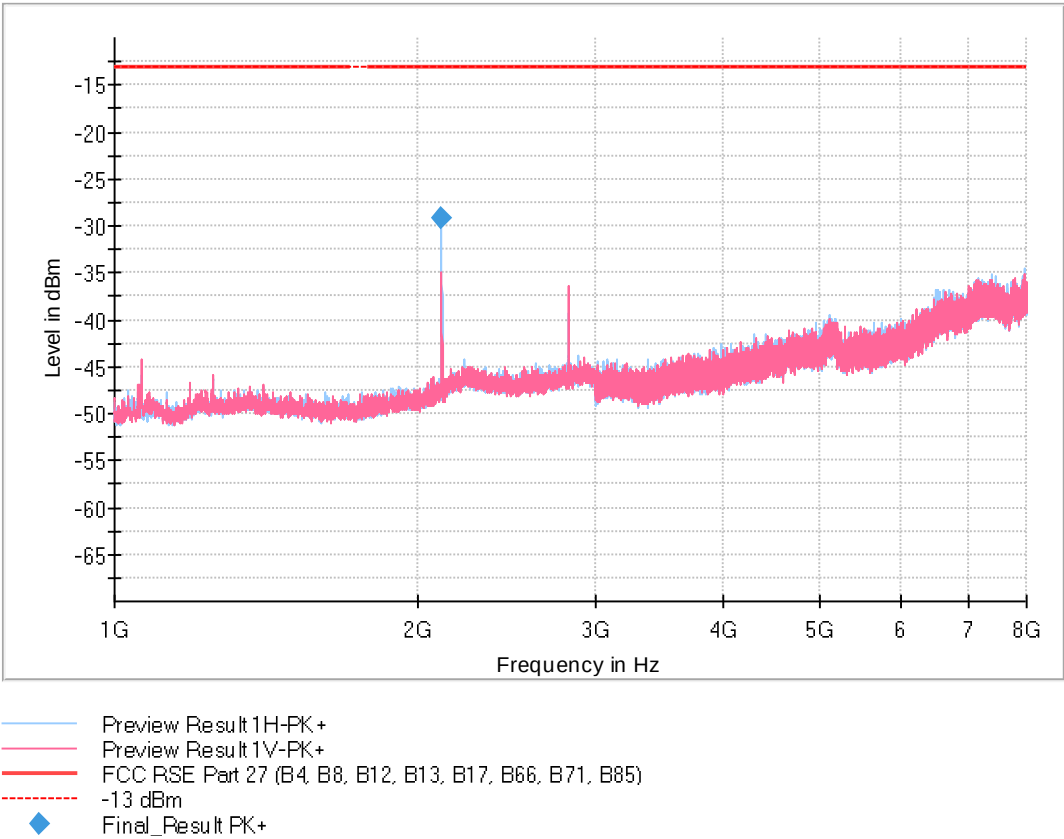
The peak above the limit is the LTE Cat 1bis Band 12 carrier frequency.

FREQUENCY RANGE 1 GHz - 10 GHz

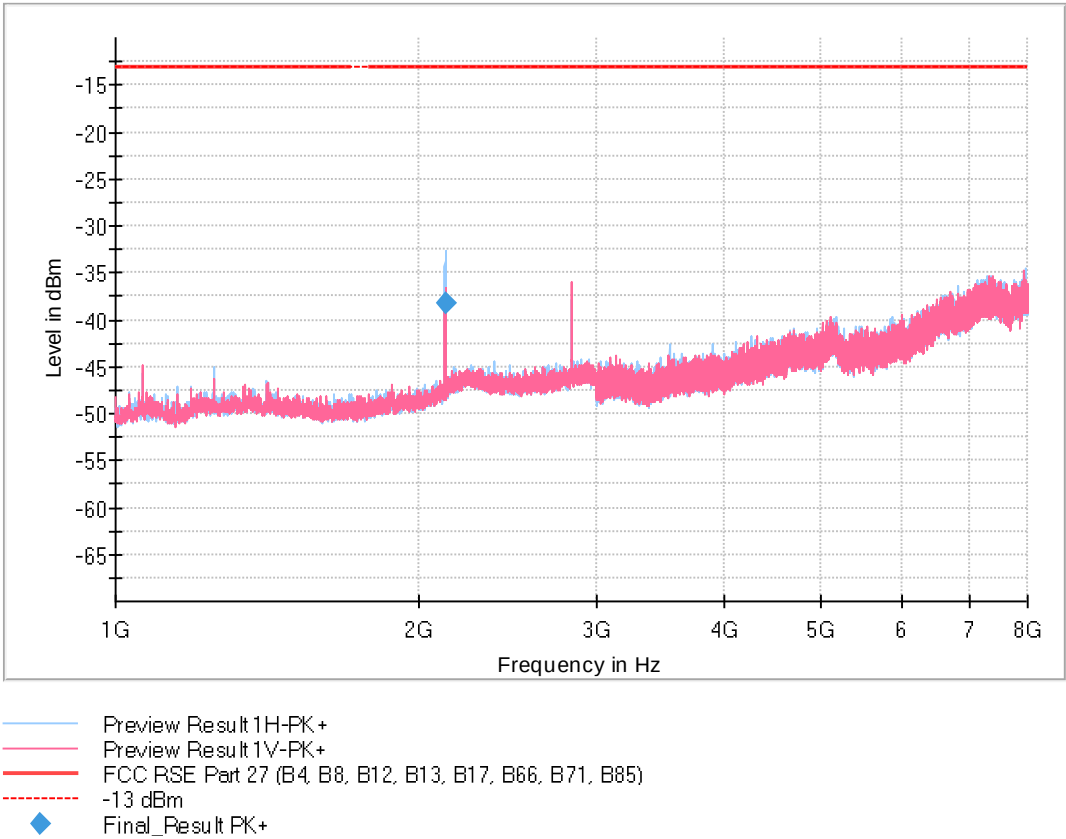
- LOW CHANNEL:



- MIDDLE CHANNEL:



- HIGH CHANNEL:



LTE Cat 1bis Band 13:

A preliminary scan determined the QPSK. BW=10 MHz. RB Size=1. RB Offset=0 as the worst case. The next results are for this worst-case configuration.

Frequency range 30 MHz - 1 GHz:

- MIDDLE CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
774.964750	-42.96	H	Peak

Frequency range 1 - 8 GHz:

- MIDDLE CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
2332.800000	-35.30	H	Peak

Measurement uncertainty (dB) < ±5.35 for f < 1 GHz
< ±4.32 for f ≥ 1 GHz up to 8 GHz

Verdict

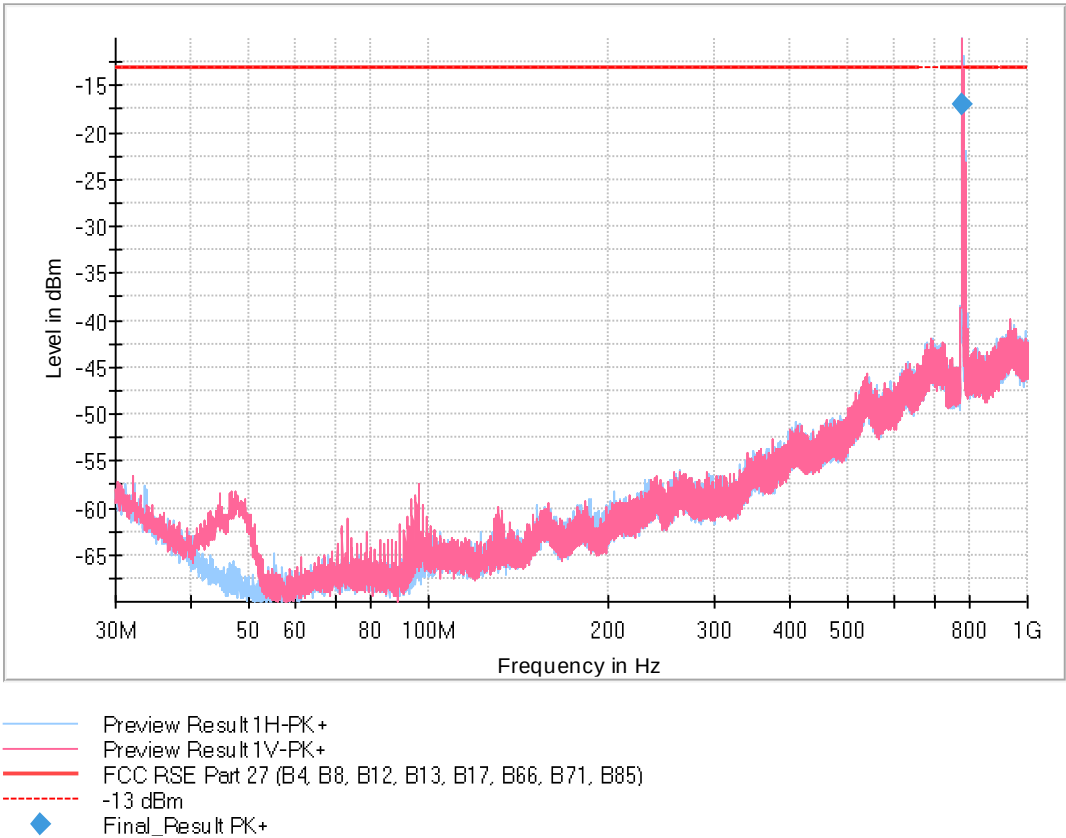
Pass

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	30.312 kHz	PK+	1 MHz	Coupled	0 dB
763 MHz - 806 MHz	1.344 kHz	PK+	6.25 kHz	Coupled	0 dB
1 GHz - 8 GHz	218.75 kHz	PK+	100 kHz	1 s	0 dB
1.559 GHz - 1.61 GHz	1.594 kHz	PK+	1 MHz	1 s	0 dB

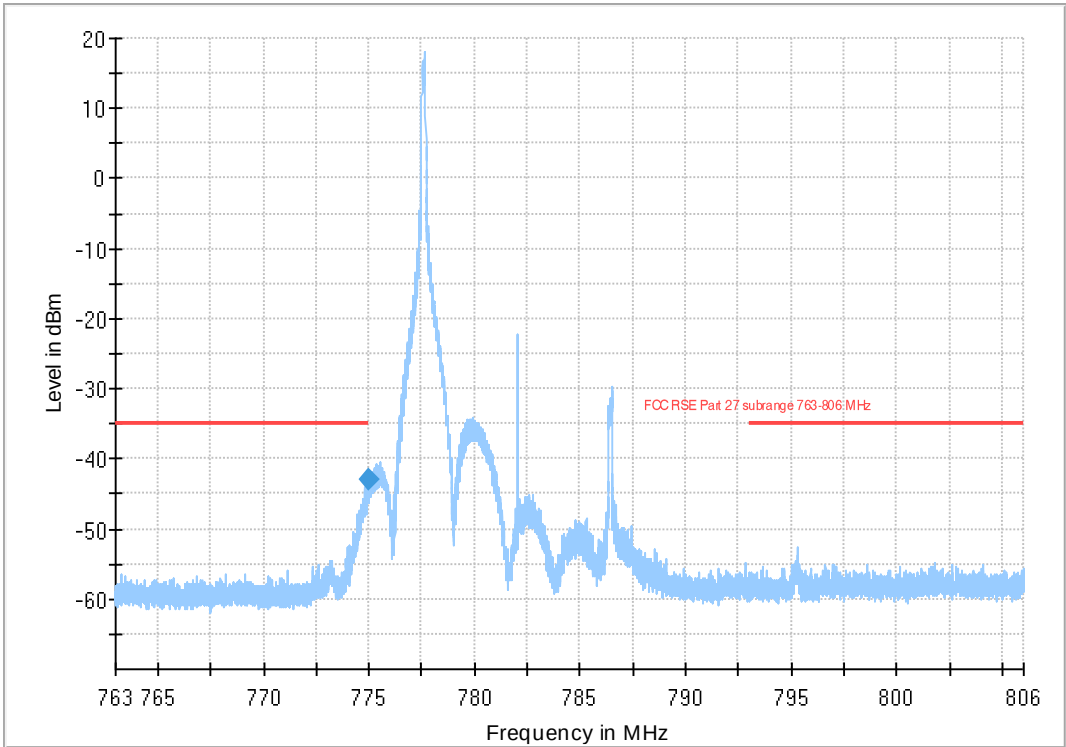
LTE Cat 1bis Band 13:

FREQUENCY RANGE 30 MHz - 1 GHz:

- MIDDLE CHANNEL:



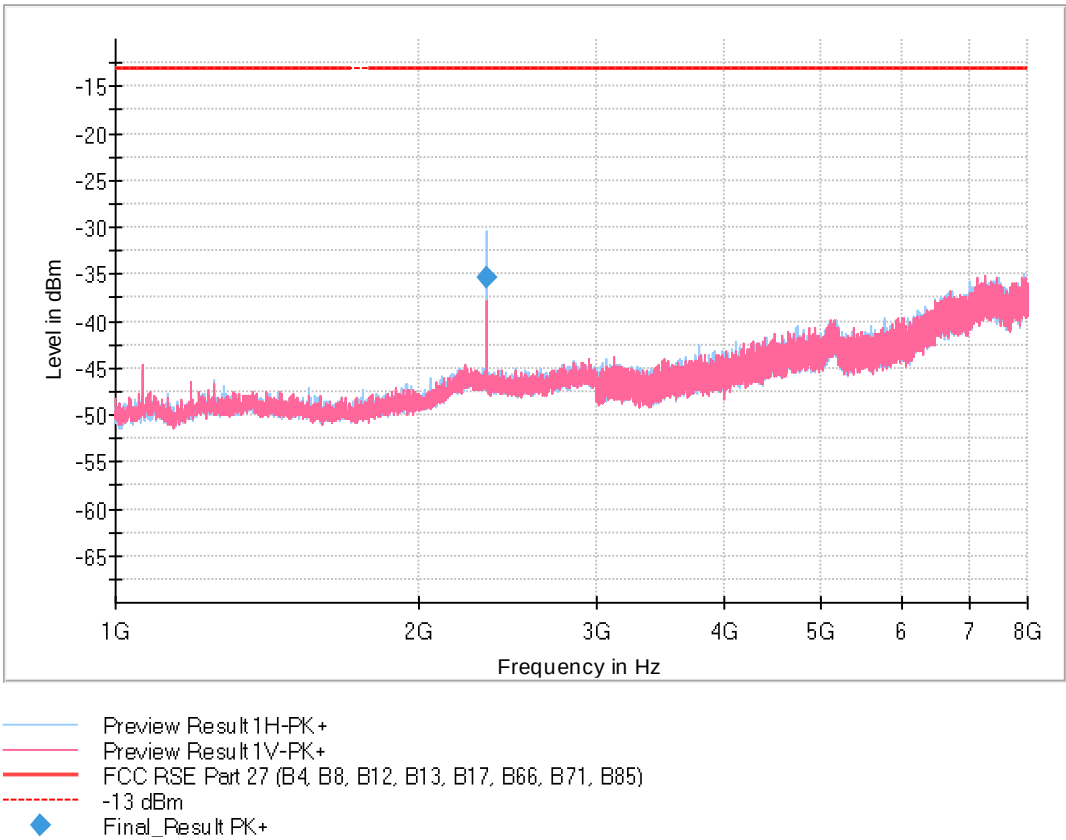
The peak above the limit is the carrier frequency.



Preview Result 1-PK+ Final_Result PK+ FCC RSE Part 27 subrange 763-806 MHz

FREQUENCY RANGE 1 - 8 GHz:

- MIDDLE CHANNEL:



LTE Cat 1bis Band 41:

A preliminary scan determined the QPSK. BW=20 MHz. RB Size=1. RB Offset=0 as the worst case. The next results are for this worst-case configuration.

Frequency range 30 MHz - 1 GHz:

- LOW CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
43.276875	-35.03	V	Peak
941.557500	-30.19	V	Peak

- MIDDLE CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
43.064688	-35.26	V	Peak
941.860625	-29.36	H	Peak

- HIGH CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
43.155625	-34.37	V	Peak
938.586875	-29.65	V	Peak

Frequency range 1 - 27 GHz:

- LOW CHANNEL USA:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
4993.880000	-33.98	H	Peak
7491.200000	-38.57	V	Peak

- MIDDLE CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
5168.040000	-28.54	H	Peak
7752.160000	-35.40	V	Peak

- HIGH CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
5341.920000	-26.24	V	Peak
8013.120000	-33.04	V	Peak

- LOW CHANNEL CANADA:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
2370.666667	-33.27	H	Peak

Measurement uncertainty (dB) $< \pm 5.35$ for $f < 1$ GHz
 $< \pm 4.32$ for $f \geq 1$ GHz up to 8 GHz

Verdict

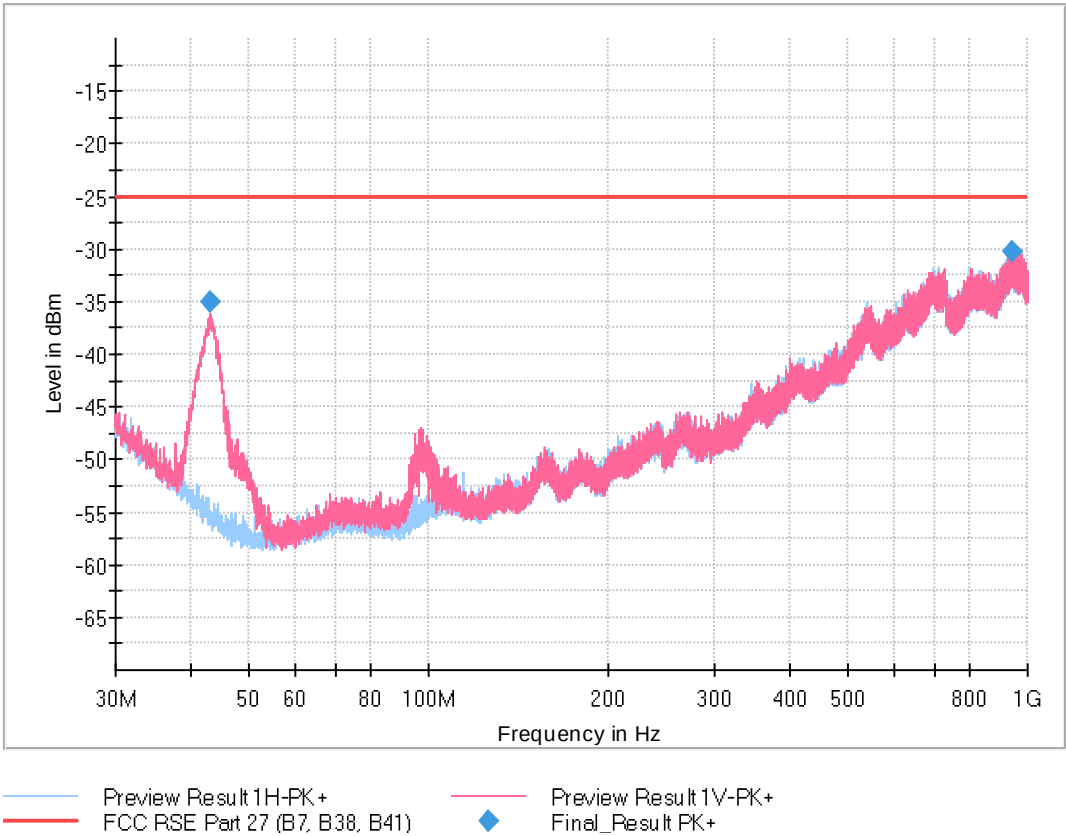
Pass

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	30.312 kHz	PK+	100 kHz	Coupled	0 dB
1 GHz - 8.5 GHz	234.375 kHz	PK+	100 kHz	1 s	0 dB

LTE Cat 1bis Band 41:

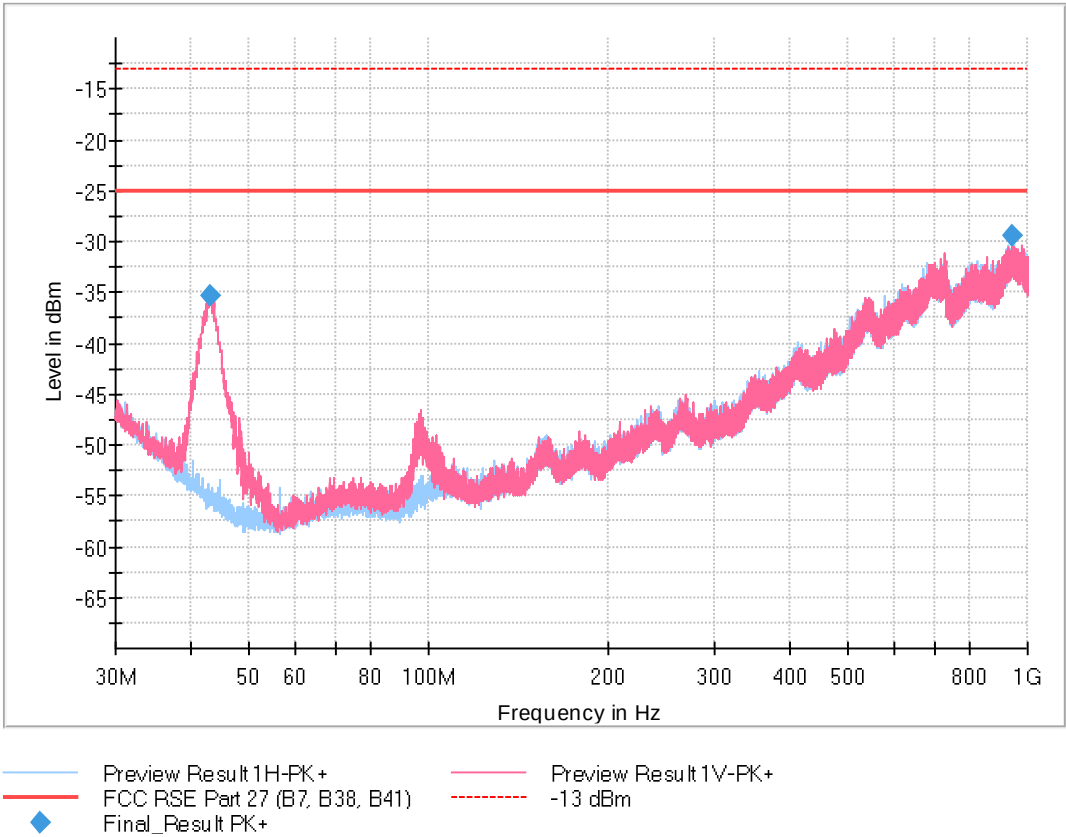
FREQUENCY RANGE 30 MHz - 1 GHz:

- LOW CHANNEL:



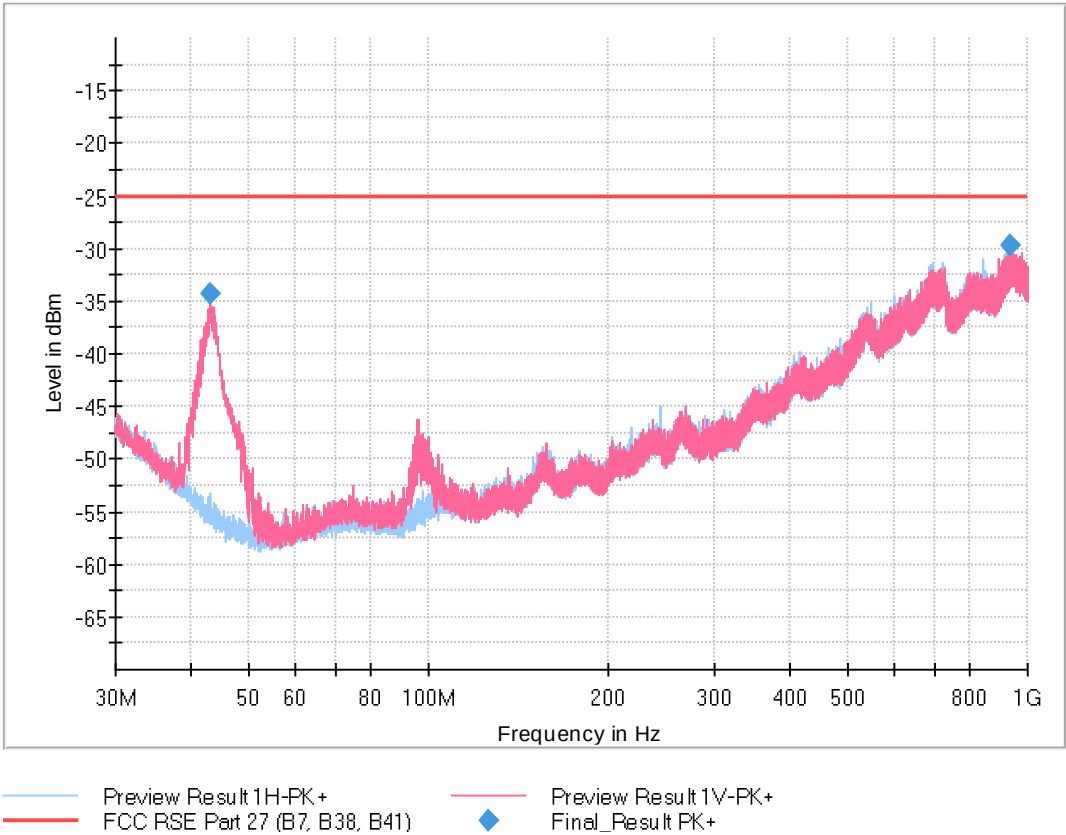
The peak above the limit is the LTE Cat 1bis Band 41 carrier frequency.

- MIDDLE CHANNEL:



The peak above the limit is the LTE Cat 1bis Band 41 carrier frequency.

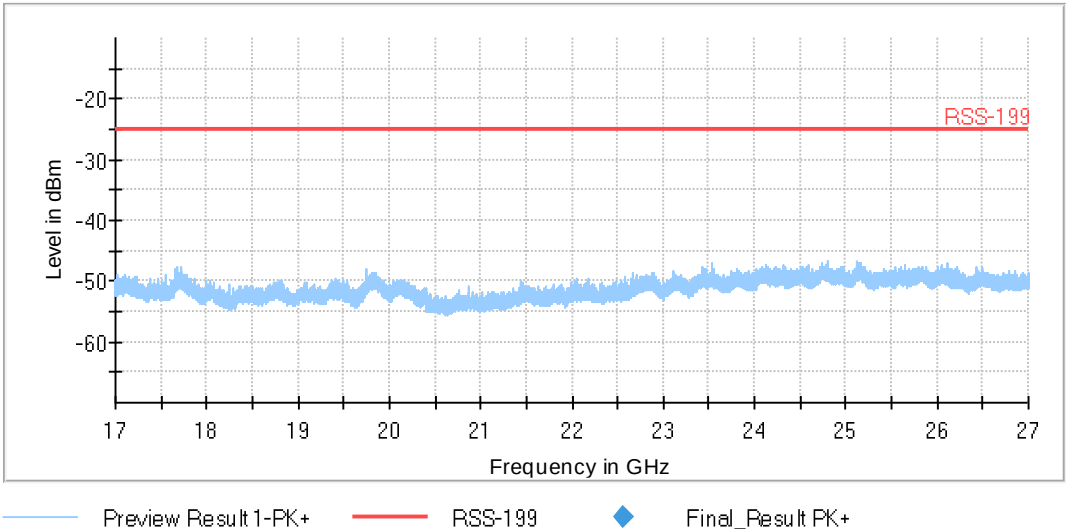
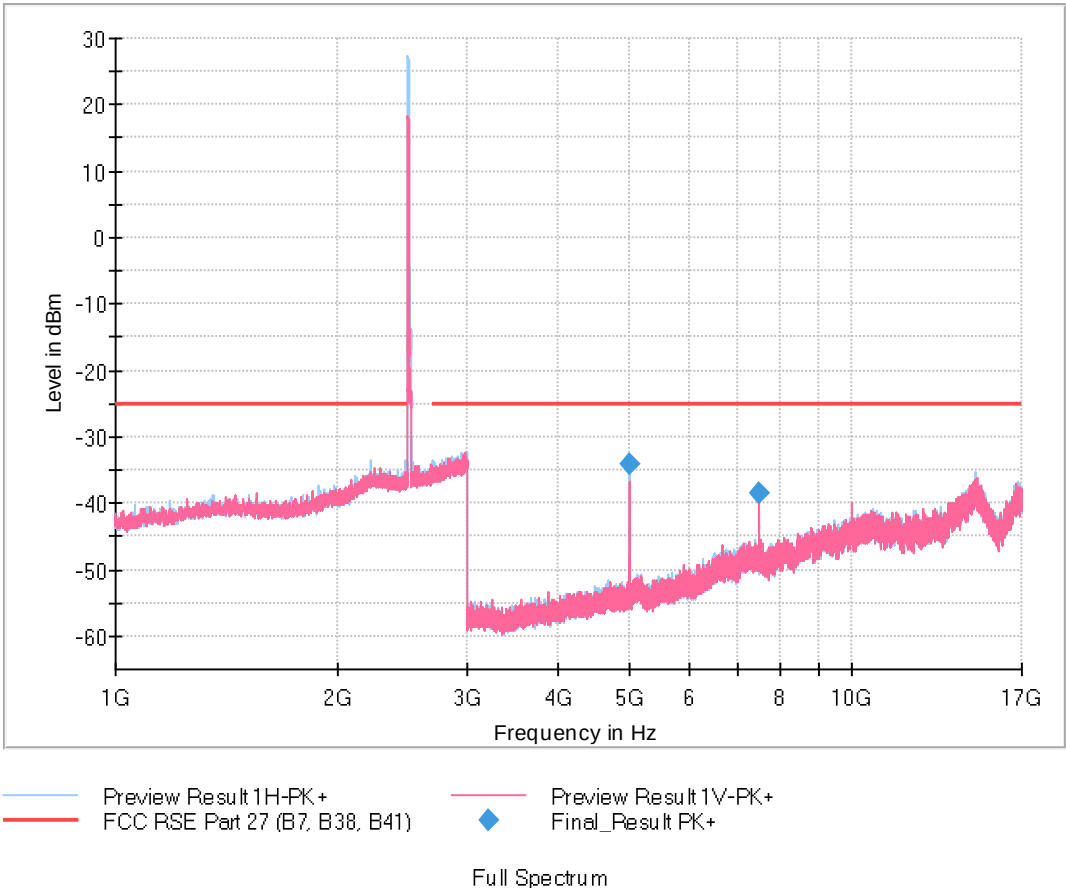
- HIGH CHANNEL:



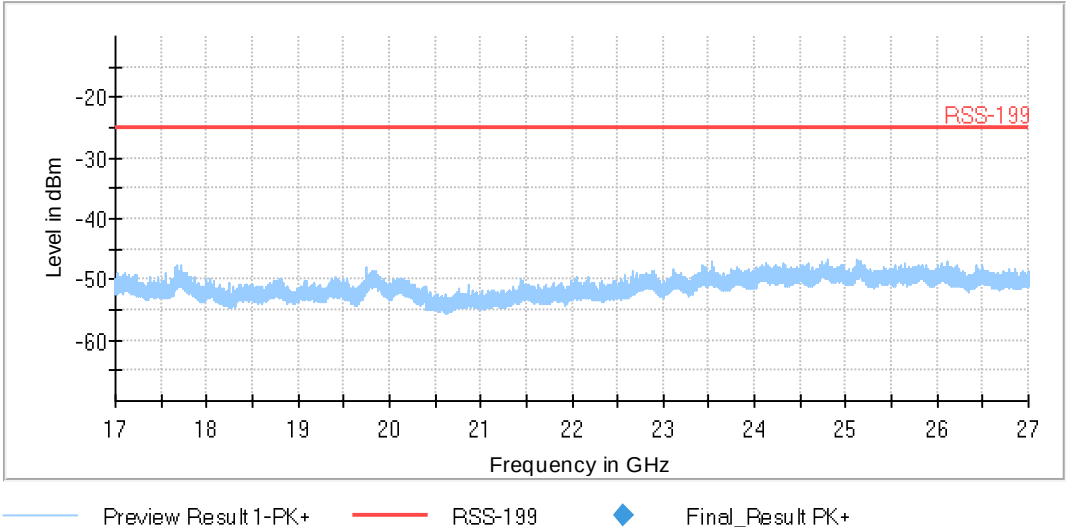
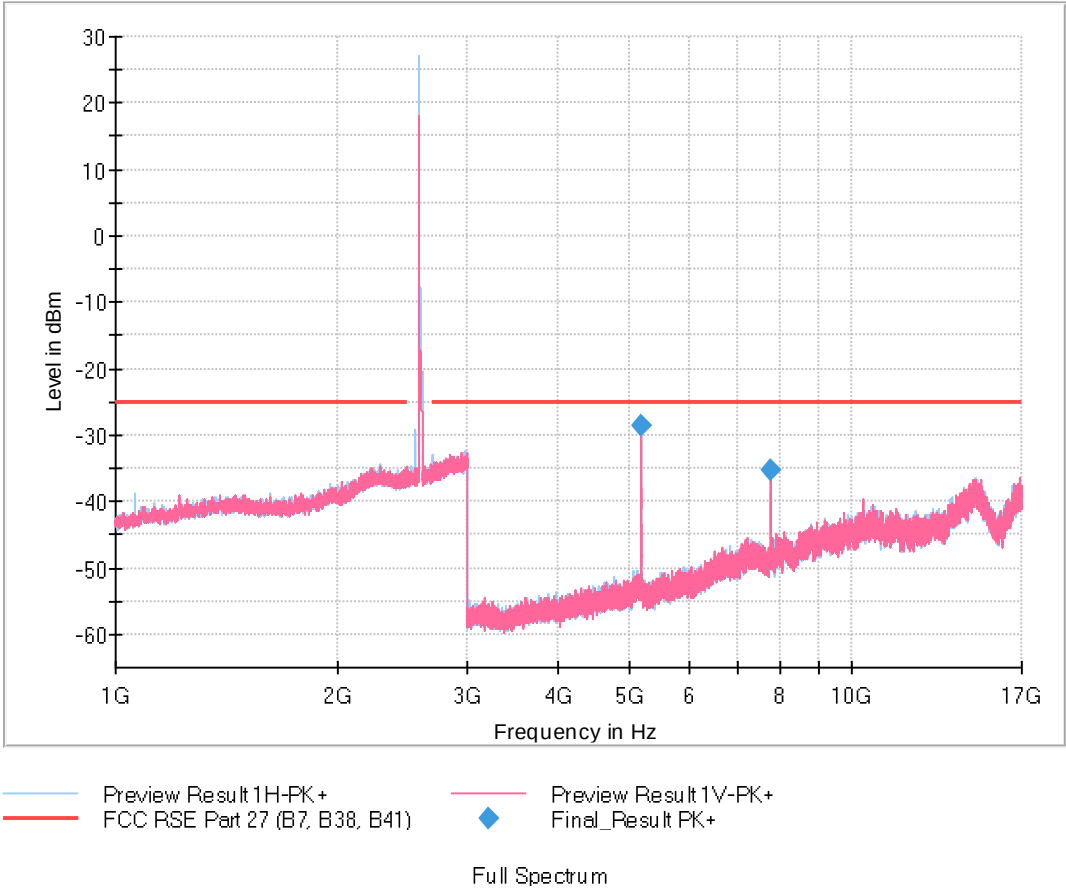
The peak above the limit is the LTE Cat 1bis Band 41 carrier frequency.

FREQUENCY RANGE 1 GHz - 27 GHz

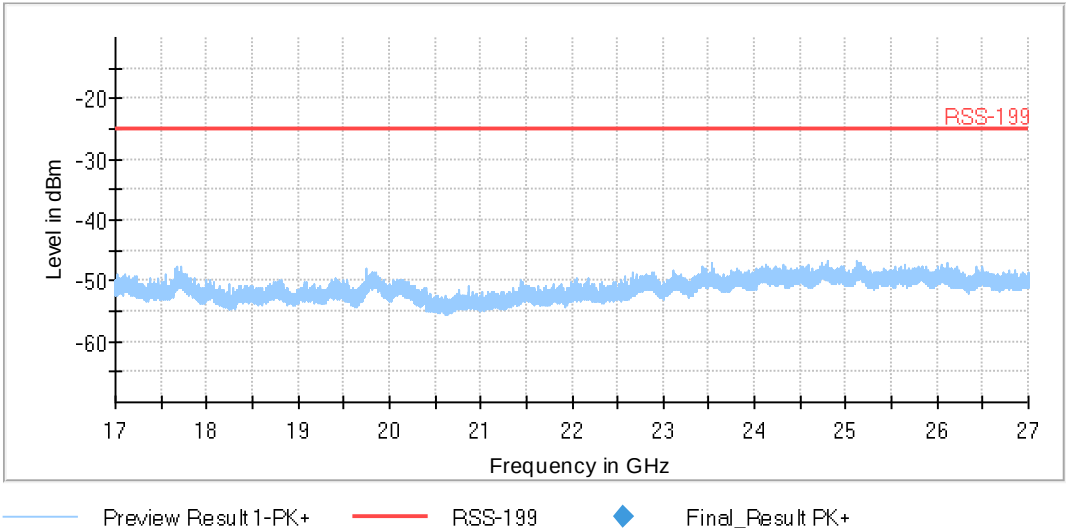
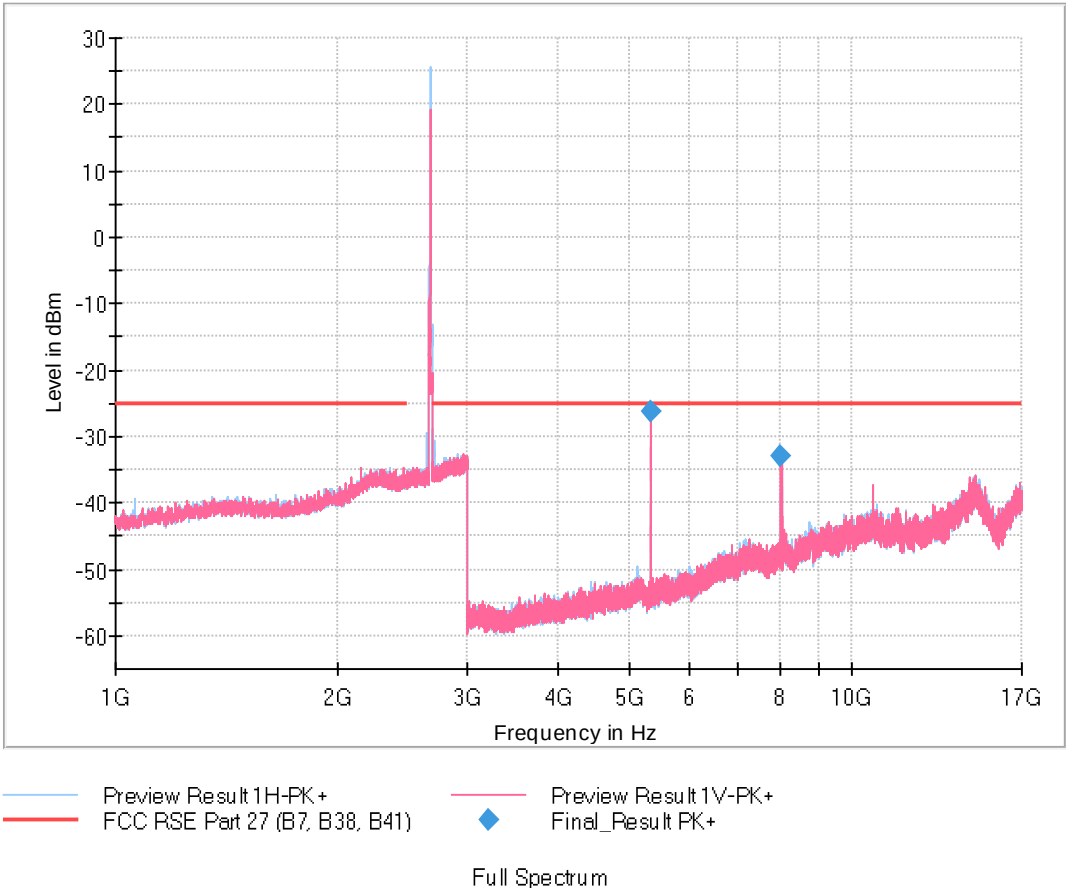
- LOW CHANNEL USA:



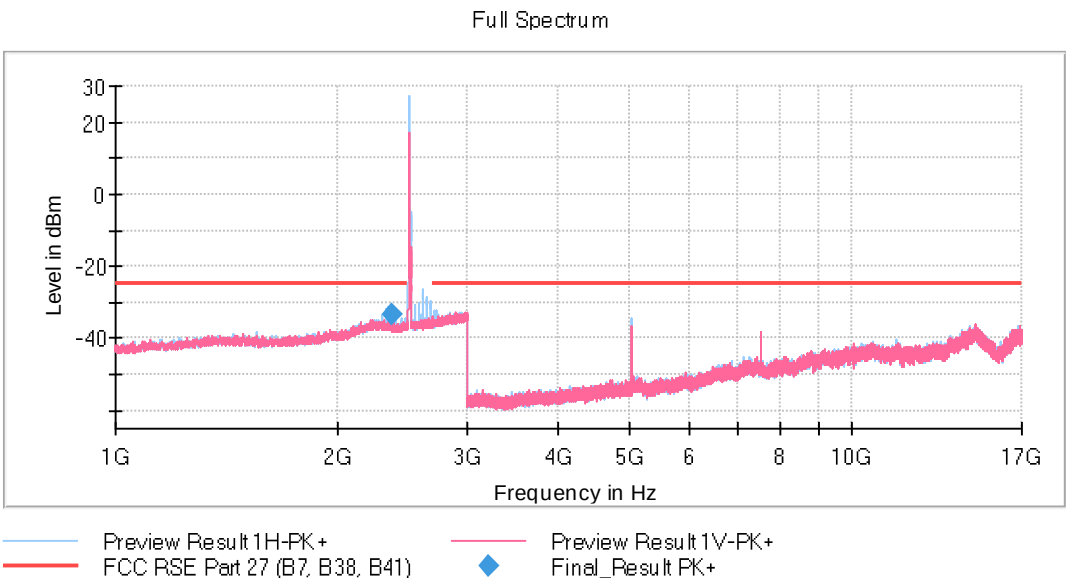
- MIDDLE CHANNEL:



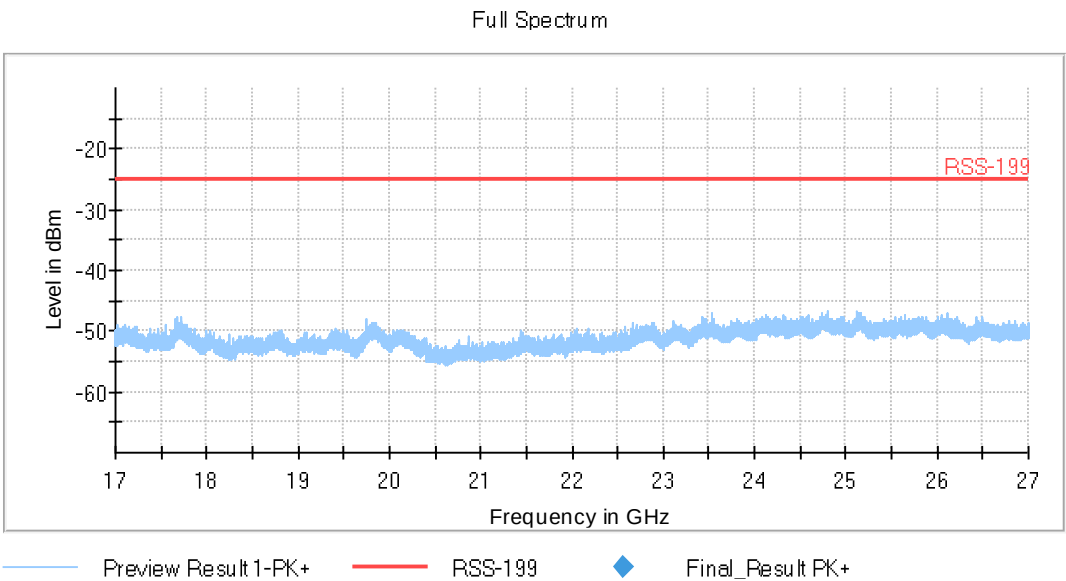
- HIGH CHANNEL:



- LOW CHANNEL CANADA:



The peak above the limit is the LTE Cat 1bis Band 41 carrier frequency.



LTE Cat 1bis Band 66:

A preliminary scan determined the QPSK. BW=20 MHz. RB=1. RB Offset=0 as the worst-case. The next results are for this worst-case configuration.

Frequency range 30 MHz - 1 GHz:

- LOW CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
800.543750	-32.28	H	Peak

- MIDDLE CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
891.935938	-31.53	H	Peak

- HIGH CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
894.936875	-31.51	V	Peak

Frequency range 1 - 18 GHz:

- LOW CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
5132.760000	-24.31	V	Peak
14691.680000	-23.93	H	Peak

- MIDDLE CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
1700.266667	-28.40	H	Peak
5208.640000	-24.28	V	Peak
14719.680000	-25.35	H	Peak

- HIGH CHANNEL:

Spurious frequencies at less than 20 dB below the limit:

Spurious frequency (MHz)	E.I.R.P (dBm)	Polarization	Detector
1361.866667	-30.40	H	Peak
5283.120000	-27.00	V	Peak
14816.000000	-25.99	V	Peak

Measurement Uncertainty (dB) $< \pm 5.35$ for $f < 1$ GHz
 $< \pm 4.32$ for $f \geq 1$ GHz up to 18 GHz

Verdict

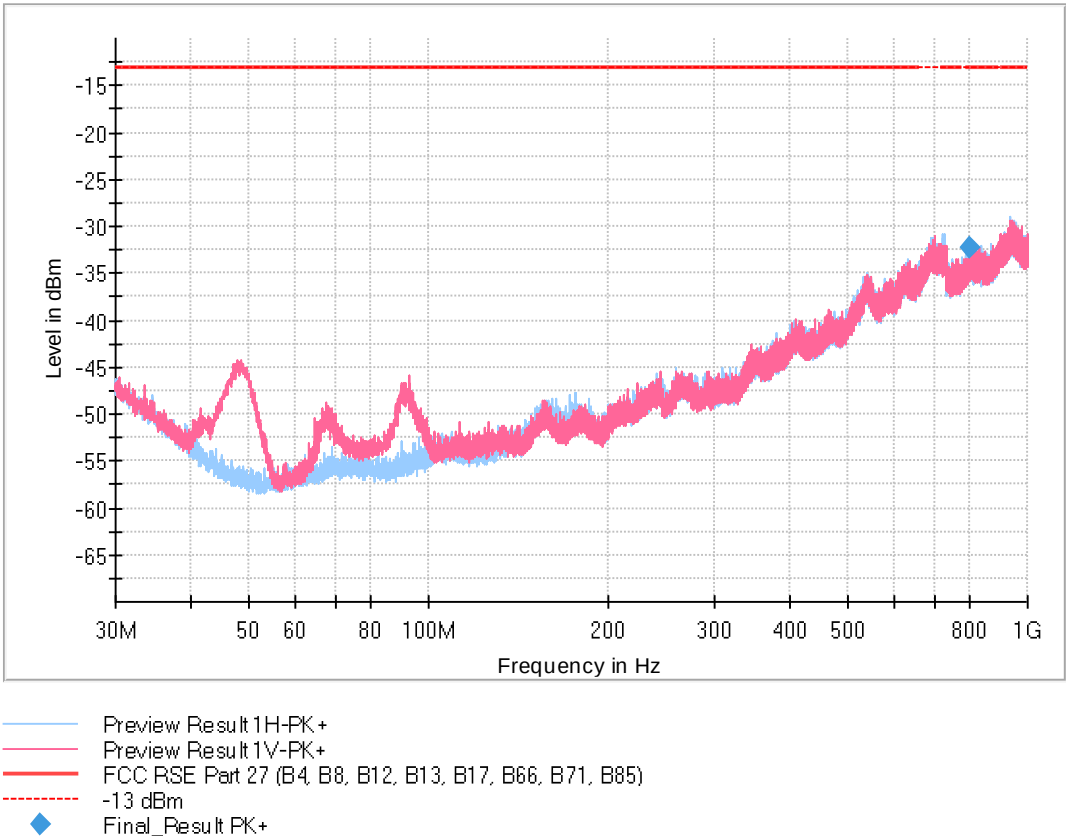
Pass

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	30.312 kHz	PK+	1 MHz	Coupled	0 dB
1 GHz - 3 GHz	62.5 kHz	PK+	1 MHz	1 s	0 dB
3 GHz - 17 GHz	437.5 kHz	PK+	1 MHz	1 s	0 dB
17 GHz - 18 GHz	31.25 kHz	PK+	1 MHz	1 s	0 dB

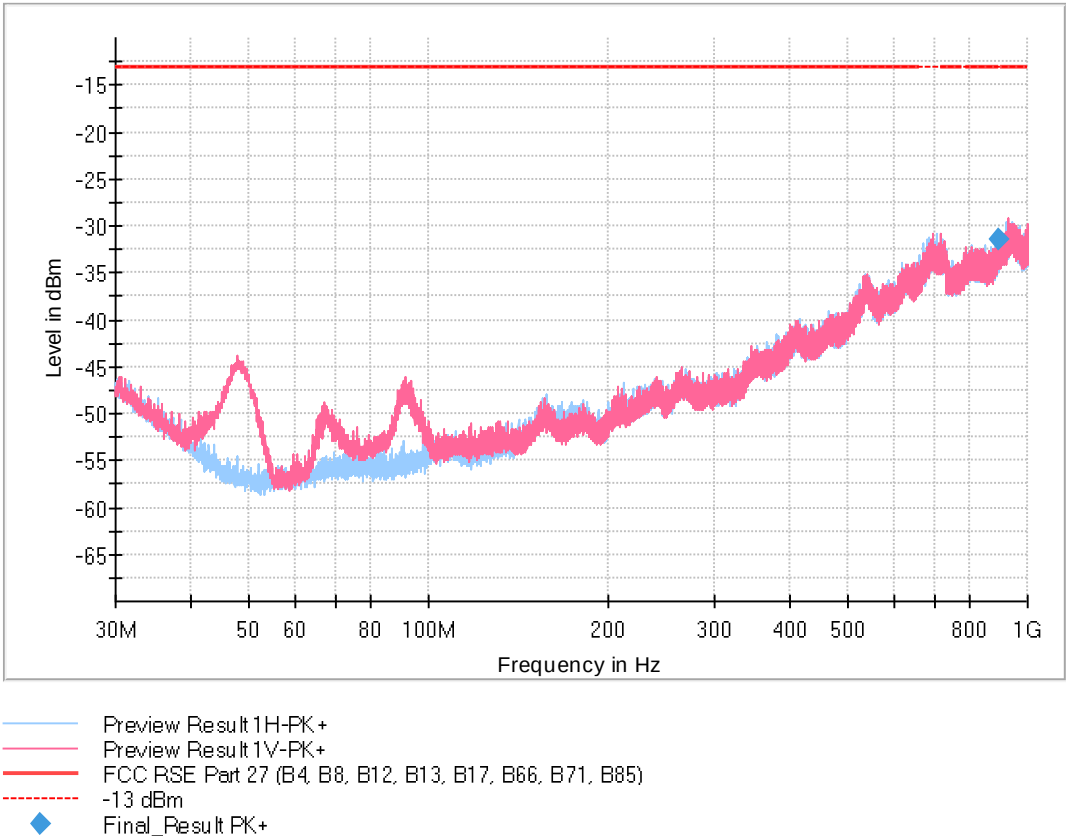
LTE Cat 1bis Band 66:

FREQUENCY RANGE 30 MHz - 1 GHz:

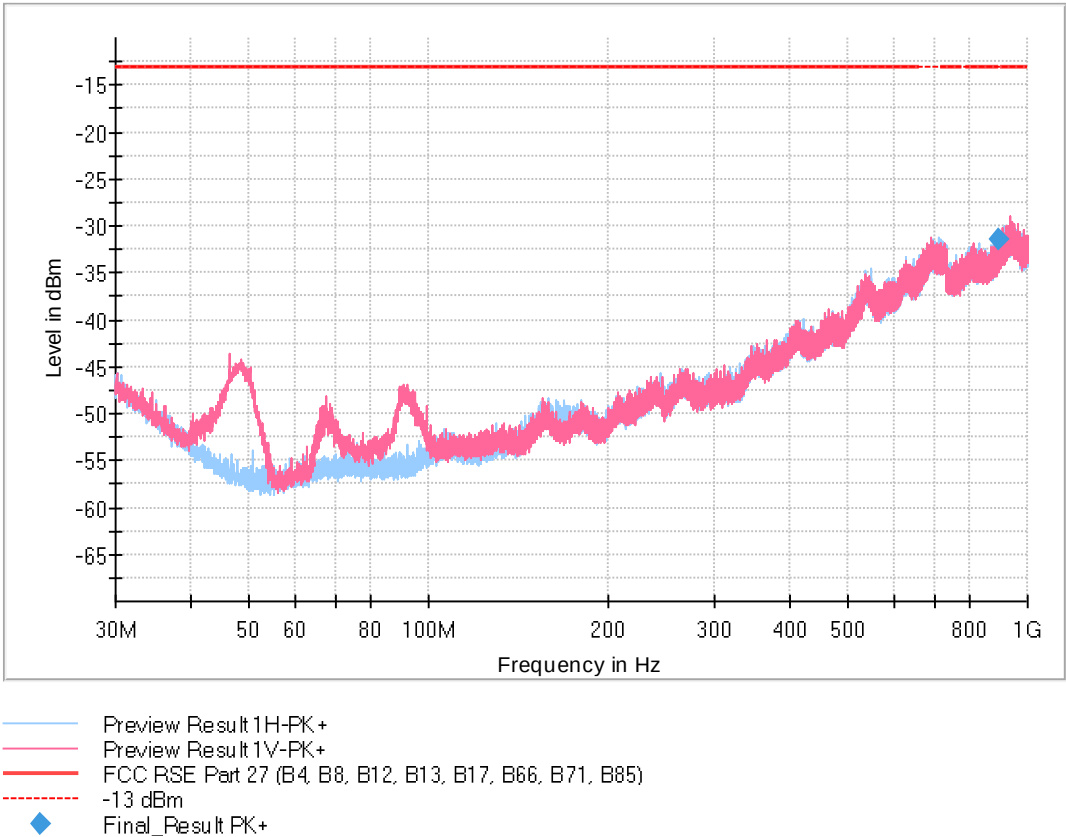
- LOW CHANNEL:



- MIDDLE CHANNEL:

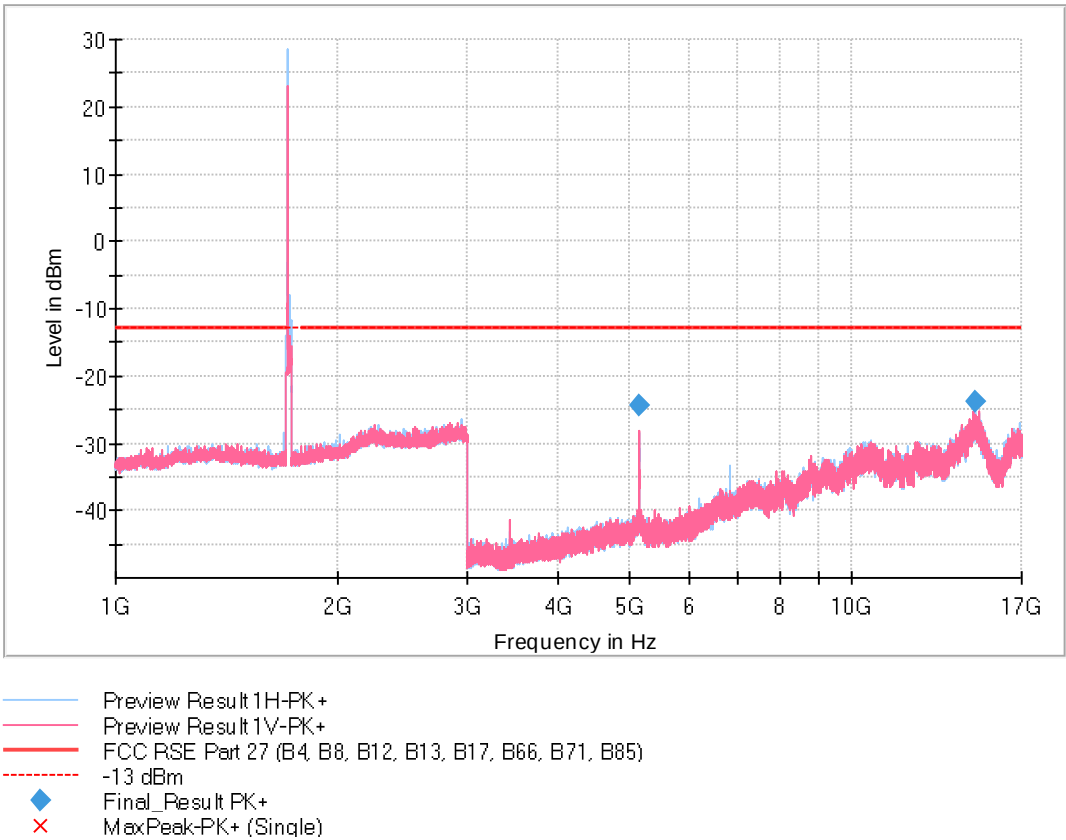


- HIGH CHANNEL:

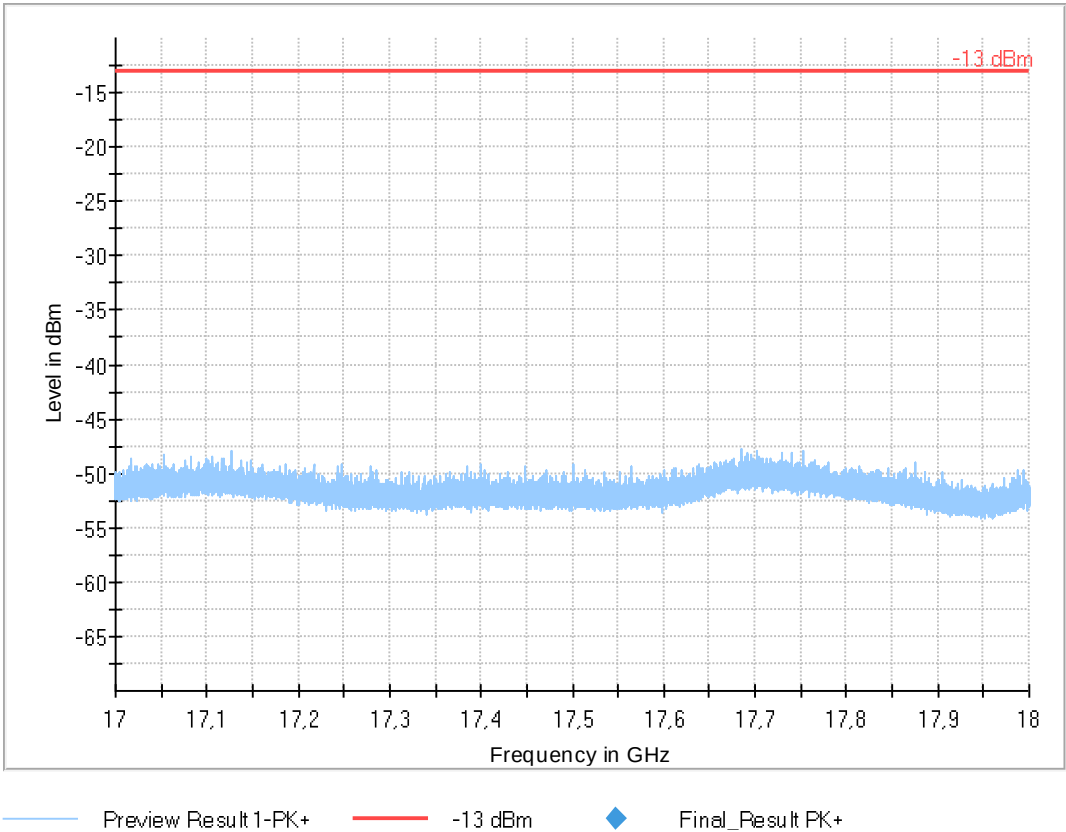


FREQUENCY RANGE 1 - 18 GHz:

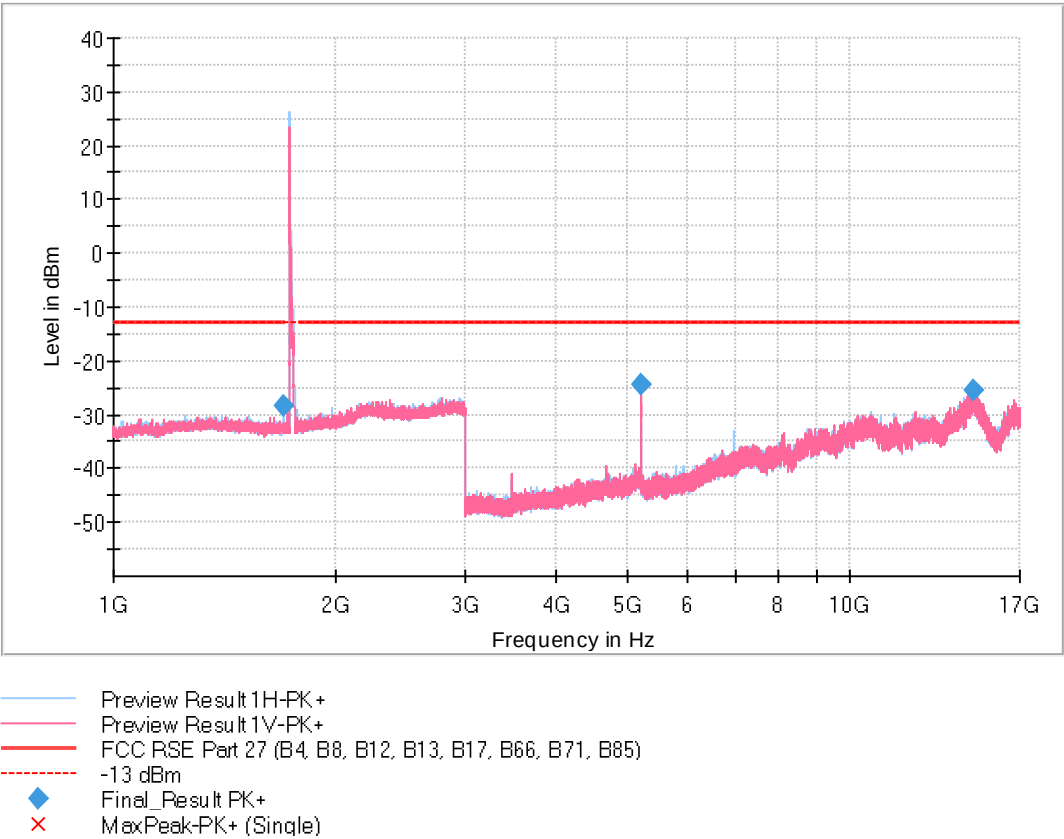
- LOW CHANNEL:



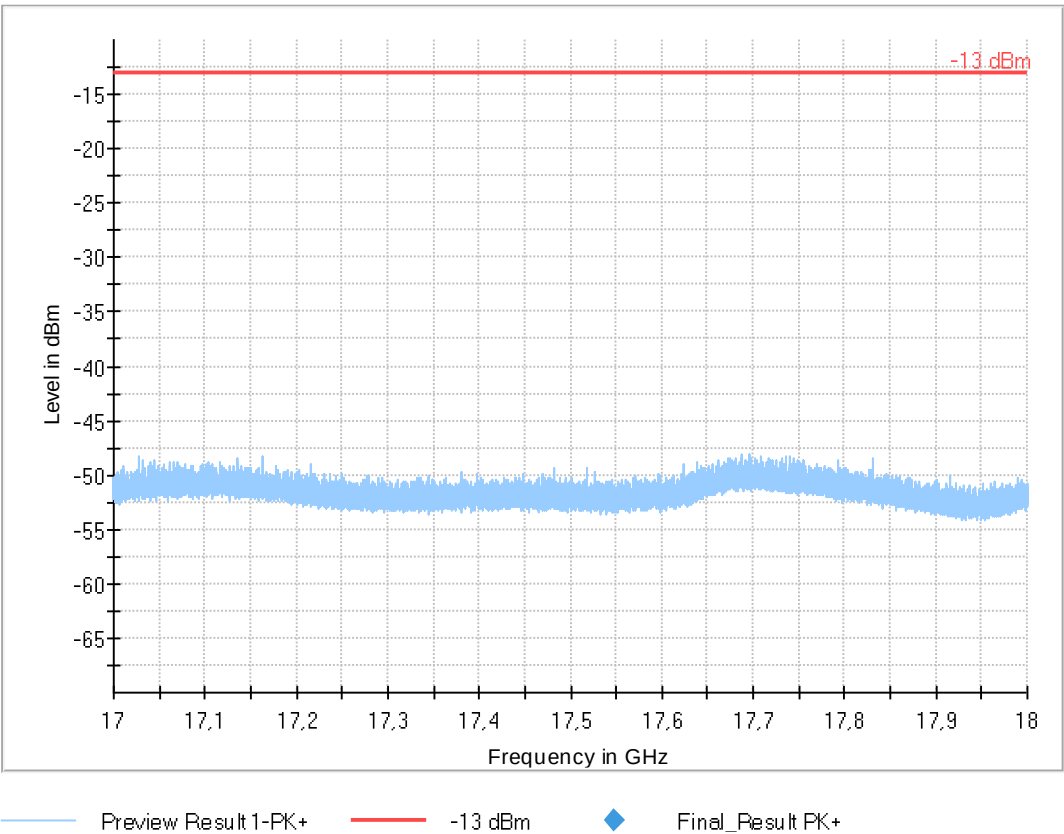
The higher peak is the carrier frequency.



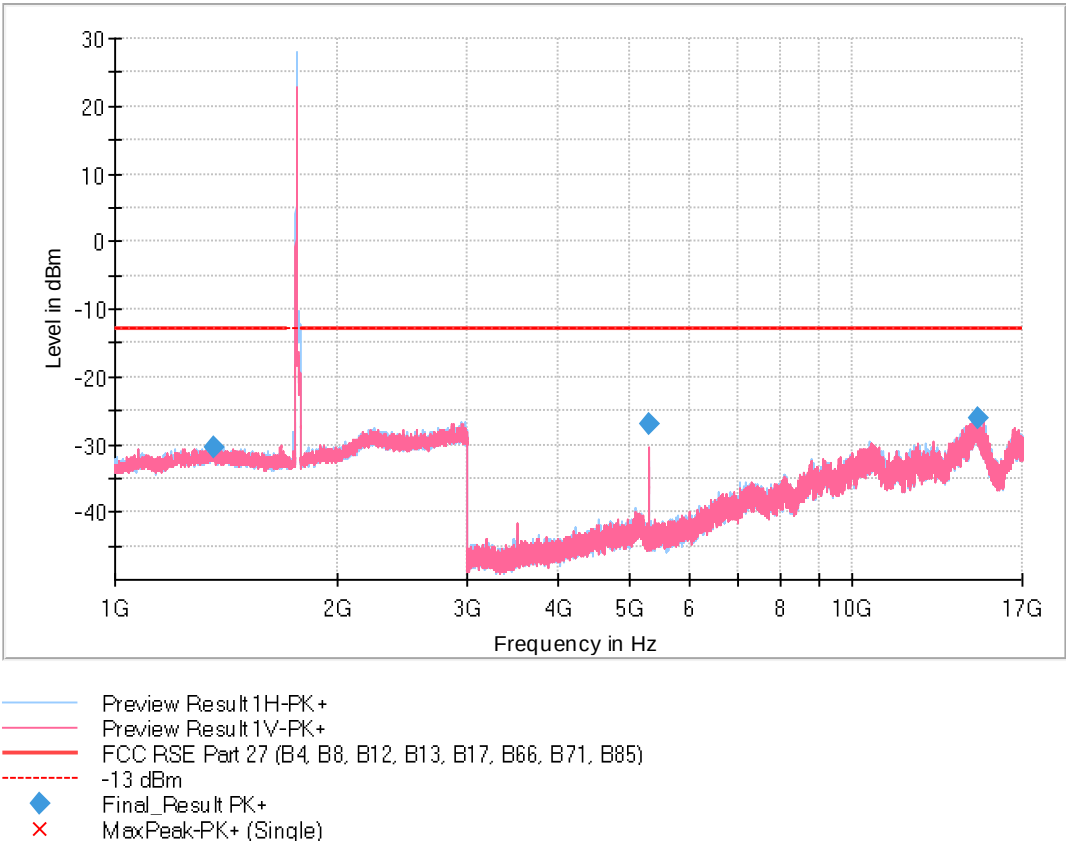
- MIDDLE CHANNEL:



The higher peak is the carrier frequency.



- HIGH CHANNEL:



The higher peak is the carrier frequency.

