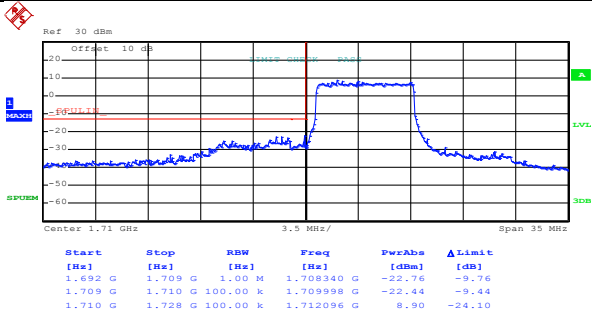
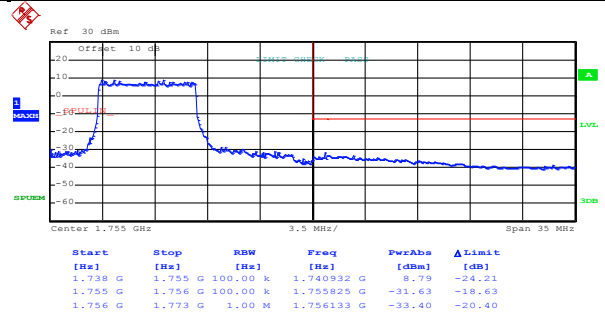


Test Mode: LTE band 4(QPSK RB Size 36 & RB Offset 0)



Date: 16.JAN.2017 03:04:20

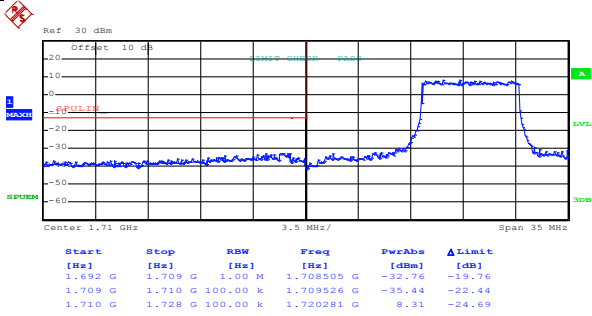
Lowest channel



Date: 16.JAN.2017 03:01:17

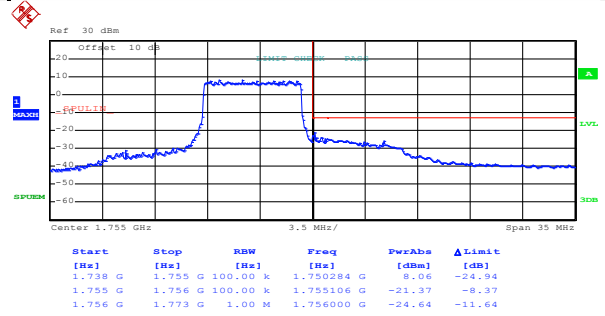
Highest channel

Test Mode: LTE band 4(QPSK RB Size 36 & RB Offset 37)



Date: 16.JAN.2017 03:04:49

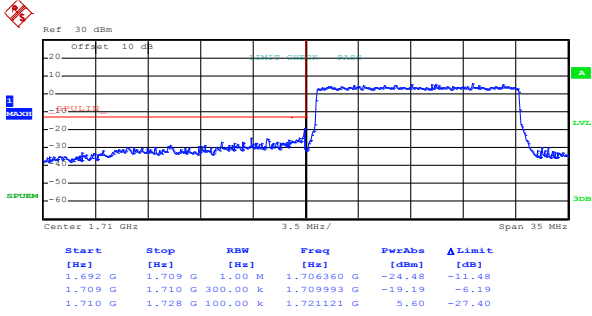
Lowest channel



Date: 16.JAN.2017 03:01:55

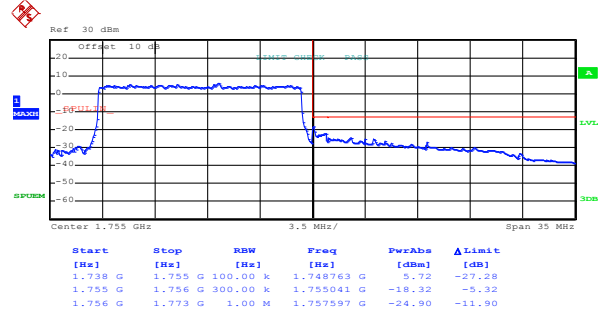
Highest channel

Test Mode: LTE band 4(QPSK RB Size 75 & RB Offset 0)



Date: 16.JAN.2017 03:05:44

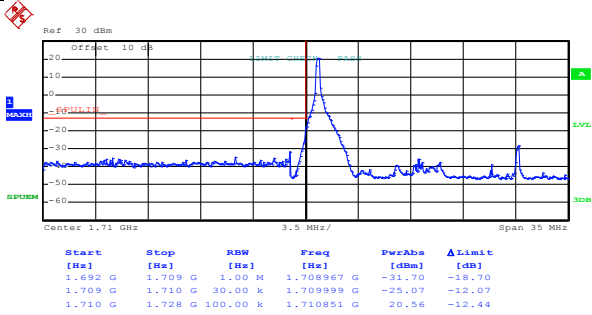
Lowest channel



Date: 16.JAN.2017 03:06:37

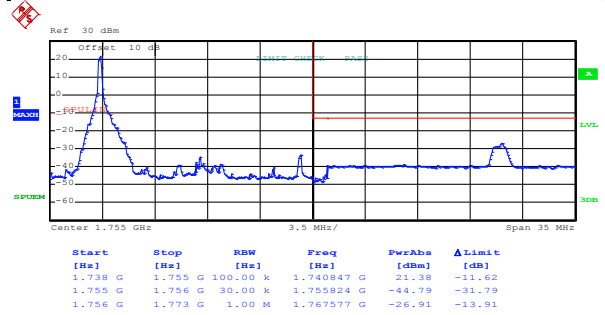
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Date: 16.JAN.2017 02:53:48

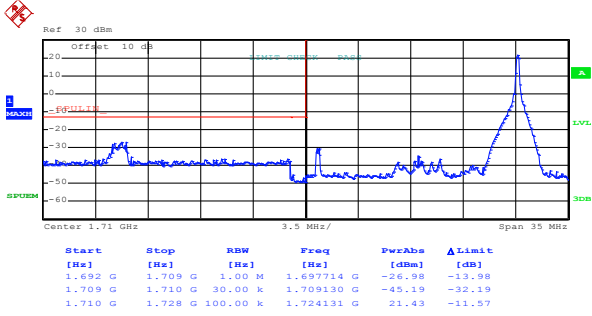
Lowest channel



Date: 16.JAN.2017 02:56:07

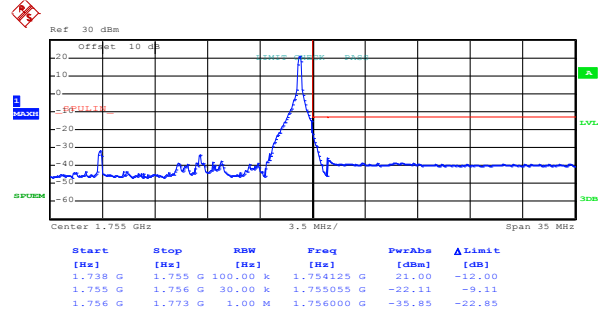
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 74)



Date: 16.JAN.2017 02:54:23

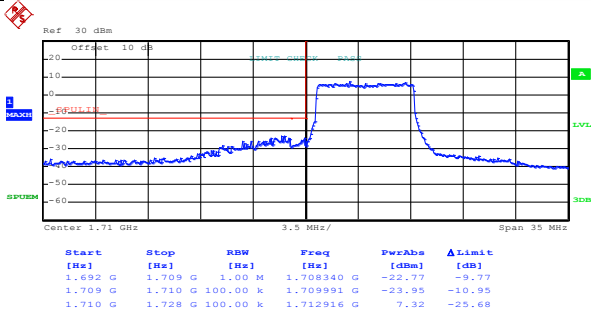
Lowest channel



Date: 16.JAN.2017 02:56:37

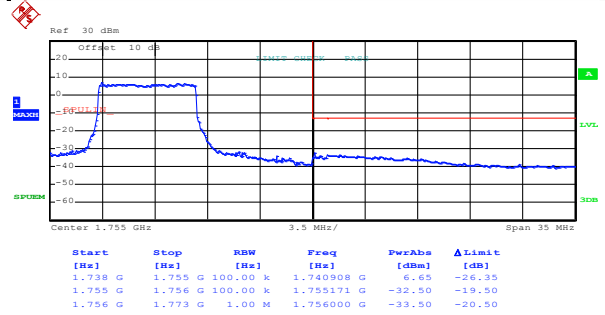
Highest channel

Test Mode: LTE band 4(16QAM RB Size 36 & RB Offset 0)



Date: 16.JAN.2017 03:04:31

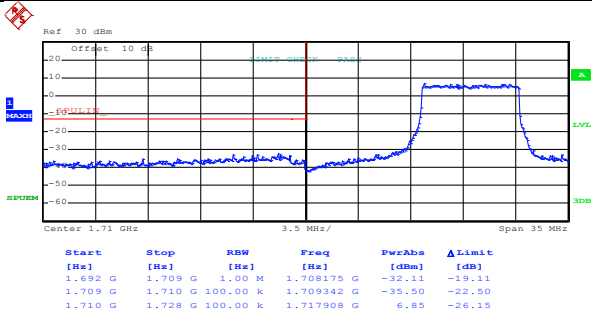
Lowest channel



Date: 16.JAN.2017 03:01:32

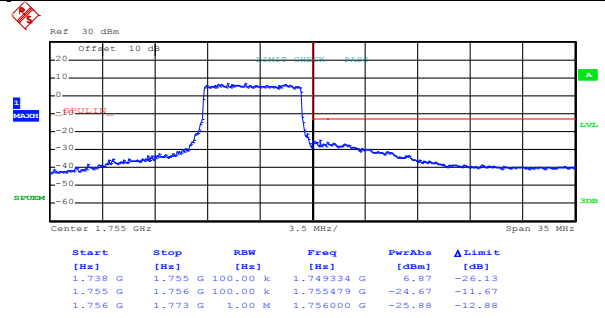
Highest channel

Test Mode: LTE band 4(16QAM RB Size 36 & RB Offset 37)



Date: 16.JAN.2017 03:05:06

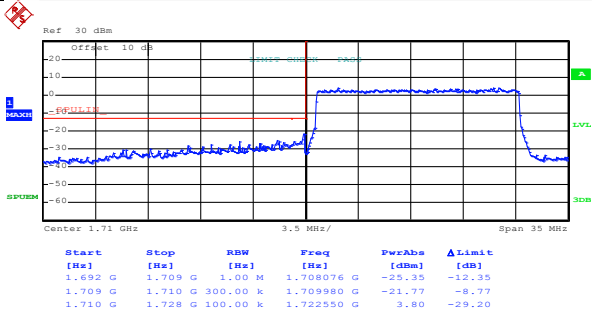
Lowest channel



Date: 16.JAN.2017 03:02:09

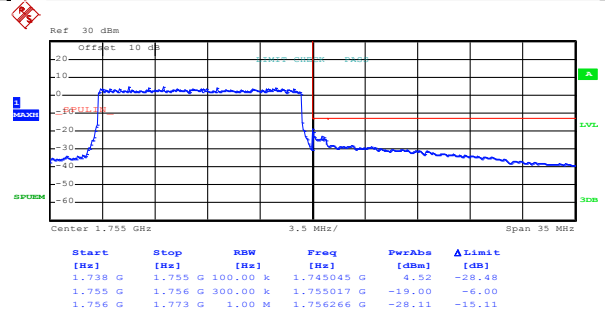
Highest channel

Test Mode: LTE band 4(16QAM RB Size 75 & RB Offset 0)



Date: 16.JAN.2017 03:05:53

Lowest channel

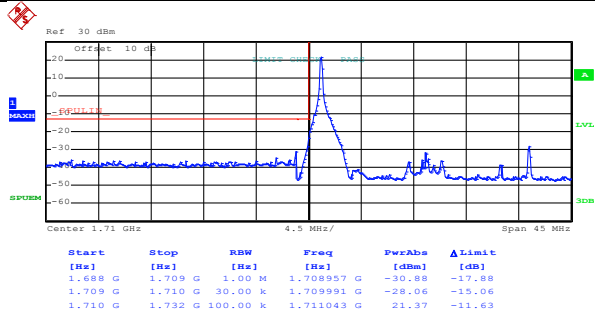


Date: 16.JAN.2017 03:06:49

Highest channel

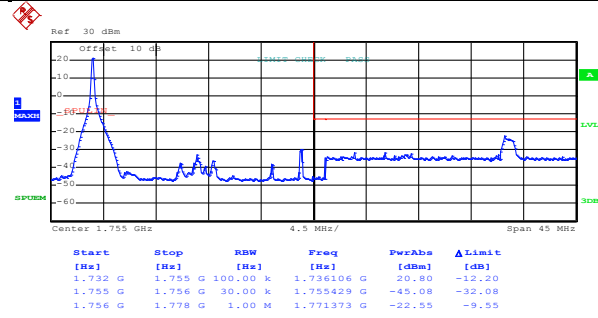
20MHz:

Test Mode: LTE band 4(QPSK RB Size 1 & RB Offset 0)



Date: 16.JAN.2017 03:10:36

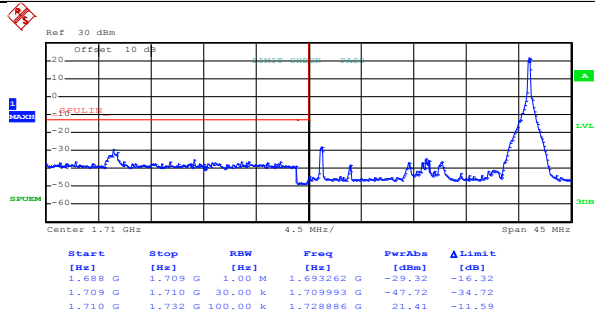
Lowest channel



Date: 16.JAN.2017 03:31:47

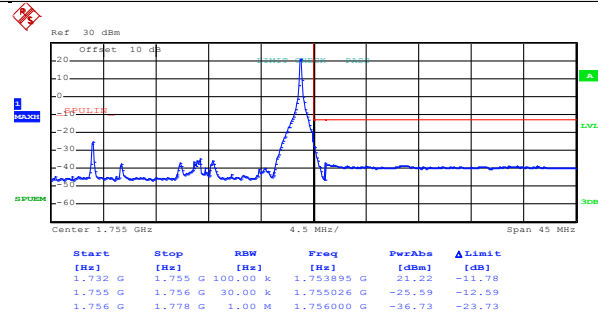
Highest channel

Test Mode: LTE band 4(QPSK RB Size 1 & RB Offset 99)



Date: 16.JAN.2017 03:12:25

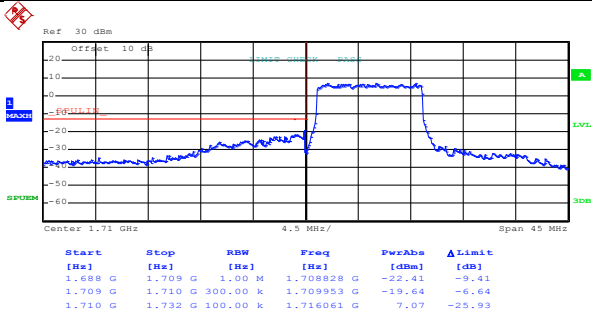
Lowest channel



Date: 16.JAN.2017 03:13:56

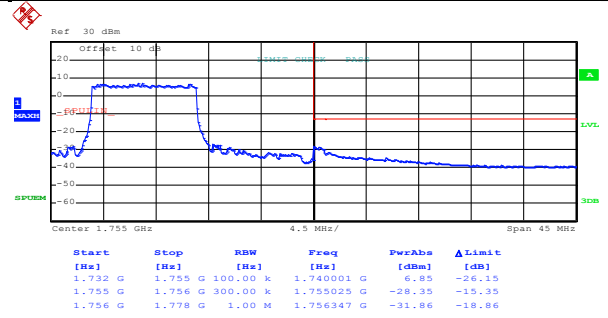
Highest channel

Test Mode: LTE band 4(QPSK RB Size 50 & RB Offset 0)



Date: 16.JAN.2017 03:17:37

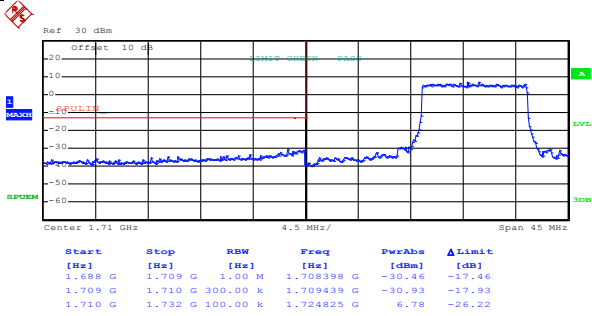
Lowest channel



Date: 16.JAN.2017 03:15:16

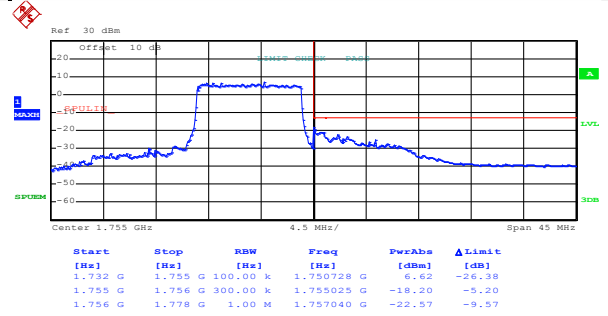
Highest channel

Test Mode: LTE band 4(QPSK RB Size 50 & RB Offset 49)



Date: 16.JAN.2017 03:18:05

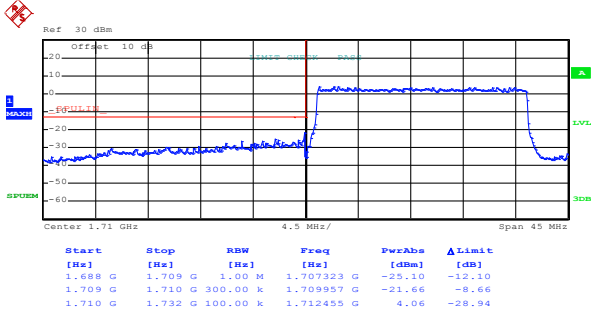
Lowest channel



Date: 16.JAN.2017 03:15:47

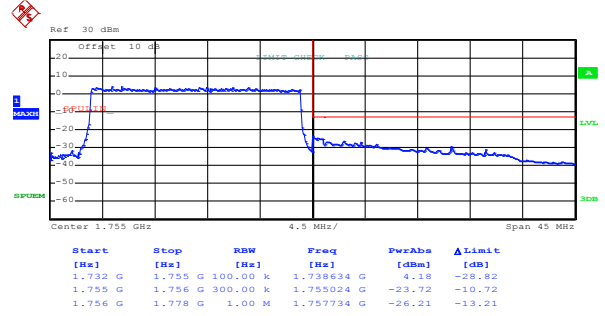
Highest channel

Test Mode: LTE band 4(QPSK RB Size 100 & RB Offset 0)



Date: 16.JAN.2017 03:18:32

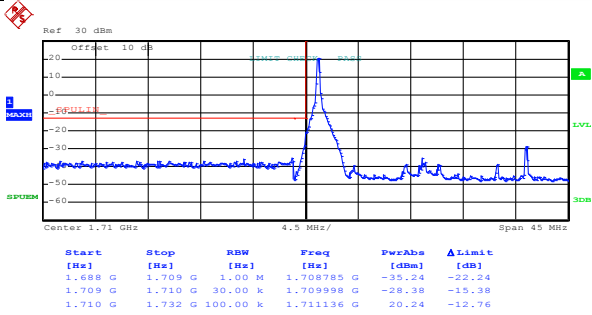
Lowest channel



Date: 16.JAN.2017 03:16:24

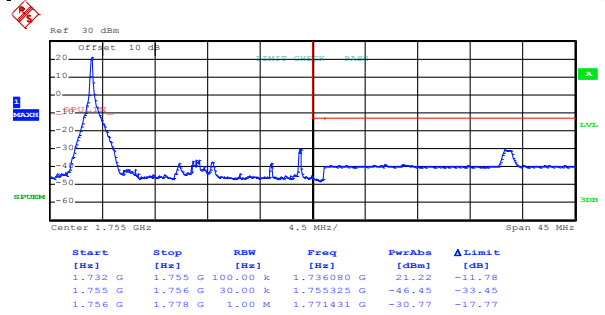
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Date: 16.JAN.2017 03:11:52

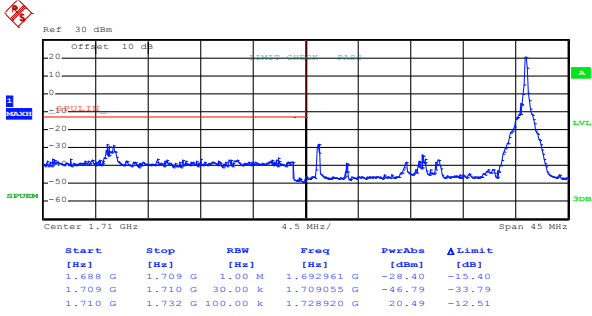
Lowest channel



Date: 16.JAN.2017 03:13:42

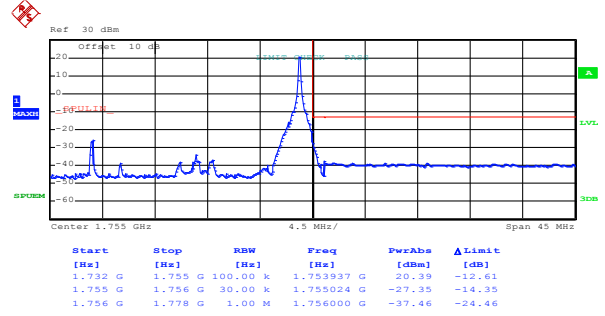
Highest channel

Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 99)



Date: 16.JAN.2017 03:12:41

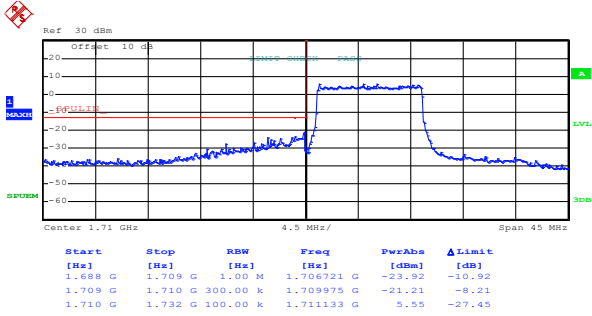
Lowest channel



Date: 16.JAN.2017 03:14:11

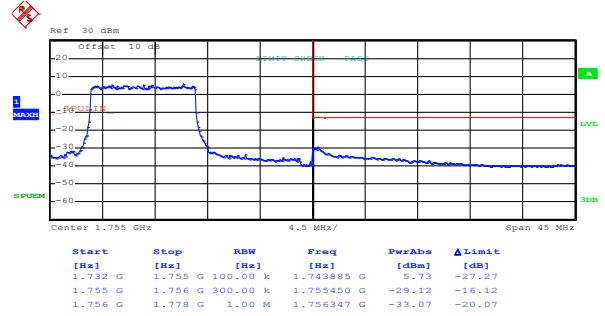
Highest channel

Test Mode: LTE band 4(16QAM RB Size 50 & RB Offset 0)



Date: 16.JAN.2017 03:17:47

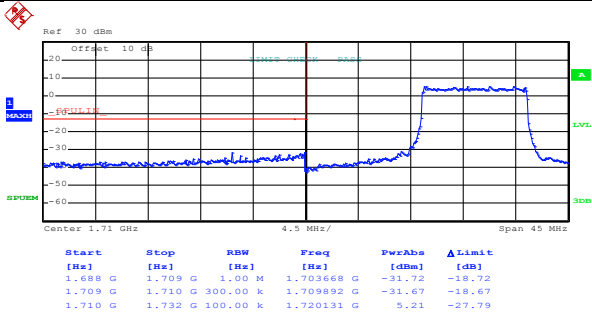
Lowest channel



Date: 16.JAN.2017 03:15:32

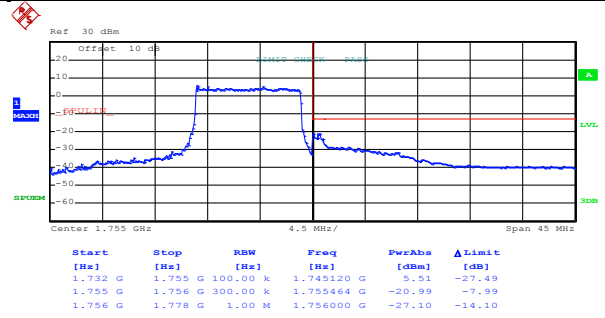
Highest channel

Test Mode: LTE band 4(16QAM RB Size 50 & RB Offset 49)



Date: 16.JAN.2017 03:18:18

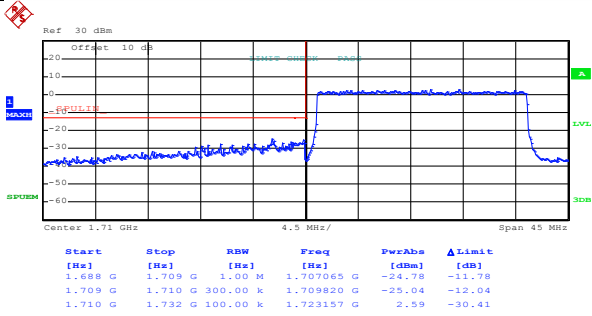
Lowest channel



Date: 16.JAN.2017 03:16:03

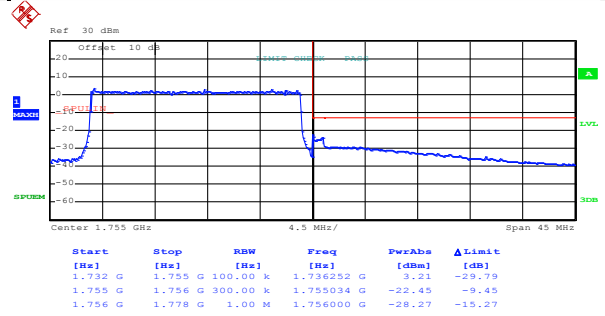
Highest channel

Test Mode: LTE band 4(16QAM RB Size 100 & RB Offset 0)



Date: 16.JAN.2017 03:18:45

Lowest channel



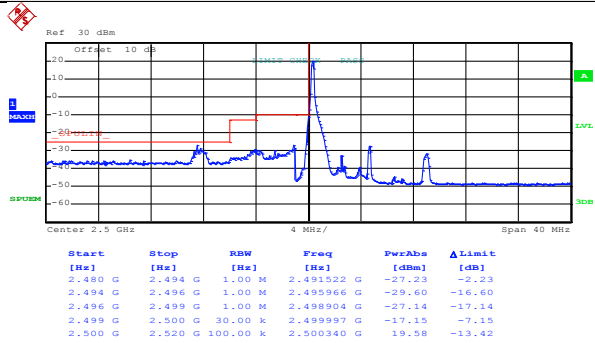
Date: 16.JAN.2017 03:16:47

Highest channel

LTE band 7 part:

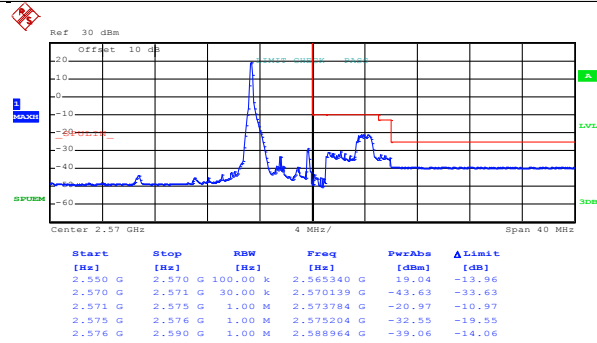
5MHz:

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 0)



Date: 31.MAR.2017 17:13:46

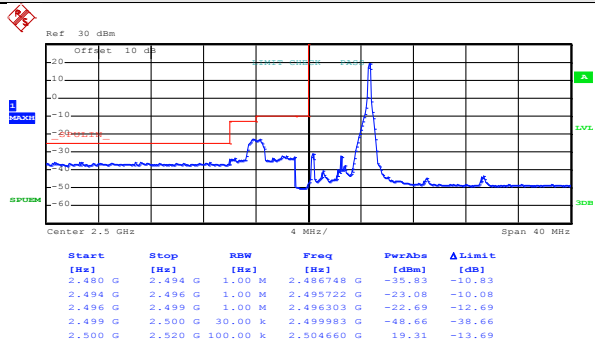
Lowest channel



Date: 31.MAR.2017 17:18:07

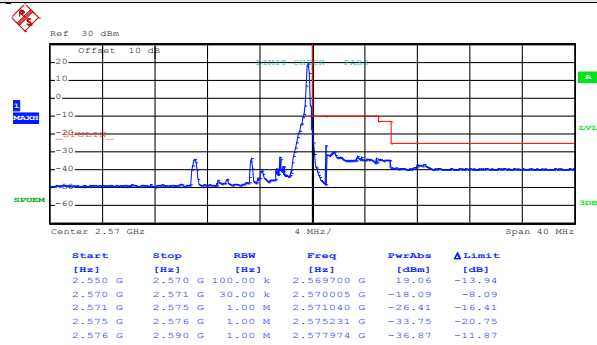
Highest channel

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 24)



Date: 31.MAR.2017 17:14:26

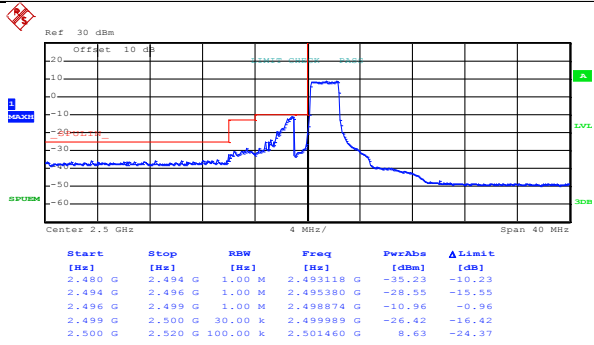
Lowest channel



Date: 31.MAR.2017 17:18:47

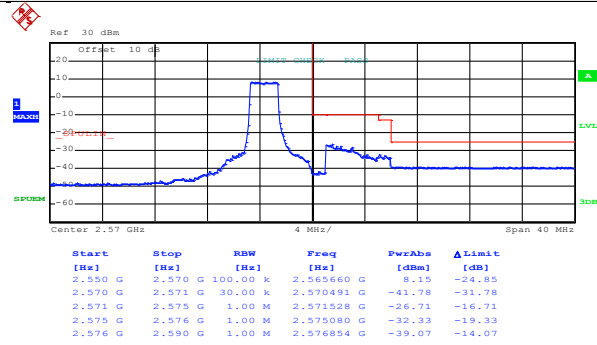
Highest channel

Test Mode: LTE band 7(QPSK RB Size 12 & RB Offset 0)



Date: 31.MAR.2017 17:15:21

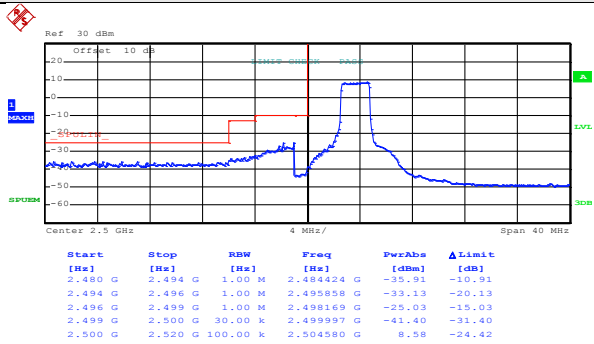
Lowest channel



Date: 31.MAR.2017 17:19:13

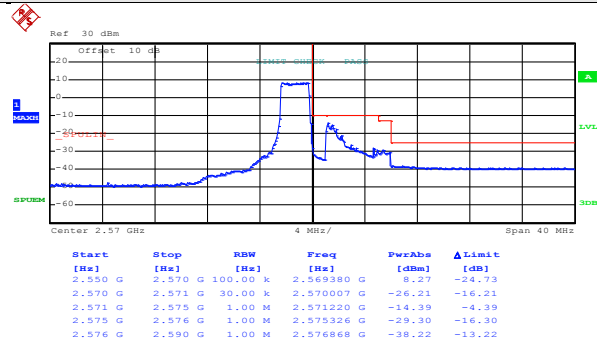
Highest channel

Test Mode: LTE band 7(QPSK RB Size 12 & RB Offset 11)



Date: 31.MAR.2017 17:15:46

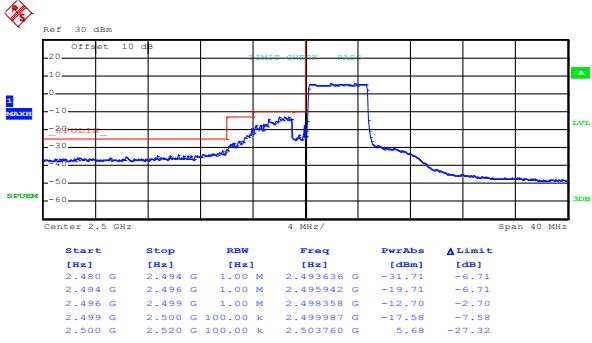
Lowest channel



Date: 31.MAR.2017 17:19:36

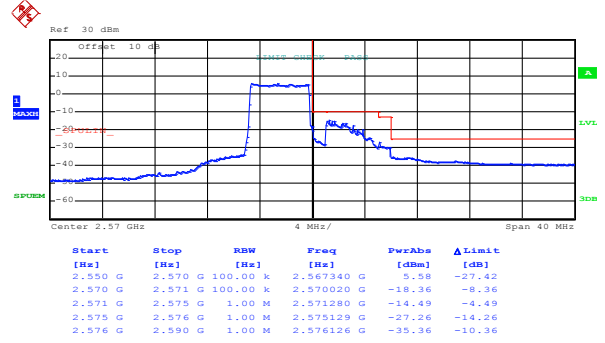
Highest channel

Test Mode: LTE band 7(QPSK RB Size 25 & RB Offset 0)



Date: 31.MAR.2017 17:17:02

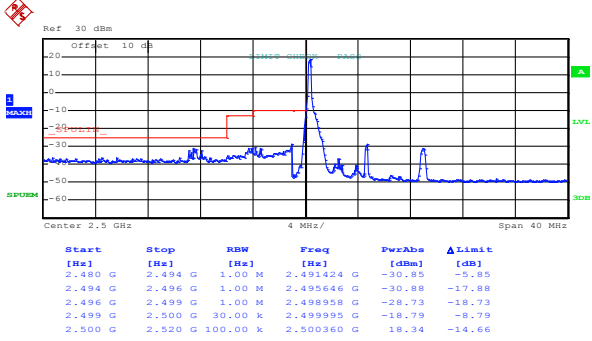
Lowest channel



Date: 31.MAR.2017 17:20:17

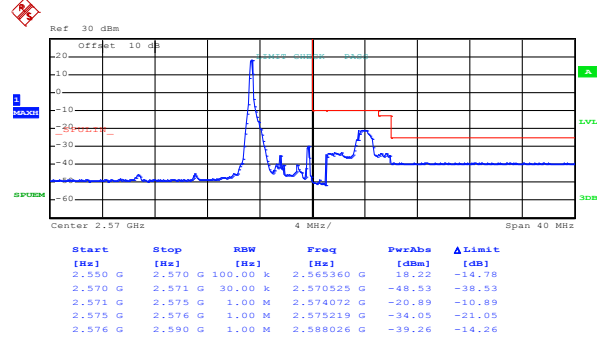
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Date: 31.MAR.2017 17:14:00

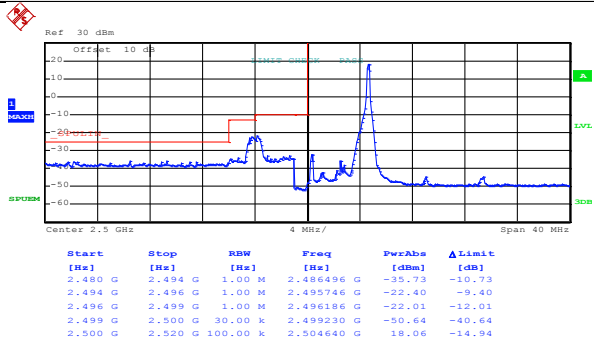
Lowest channel



Date: 31.MAR.2017 17:18:30

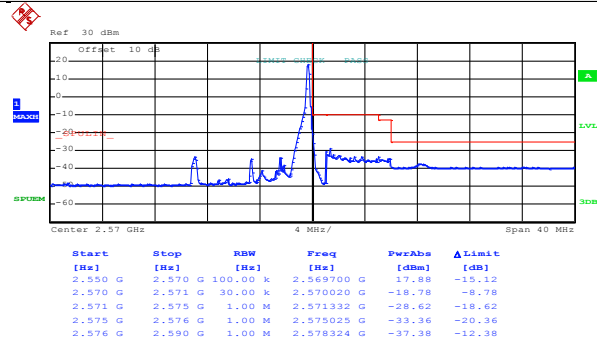
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 24)



Date: 31.MAR.2017 17:14:39

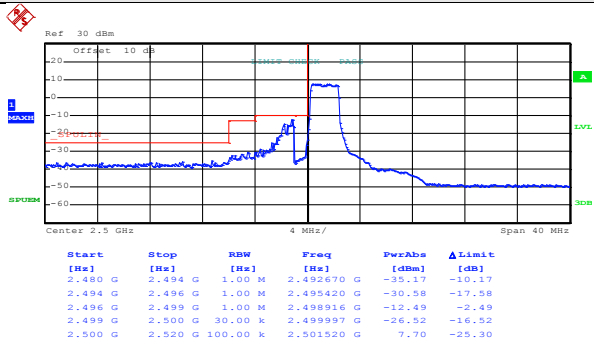
Lowest channel



Date: 31.MAR.2017 17:18:59

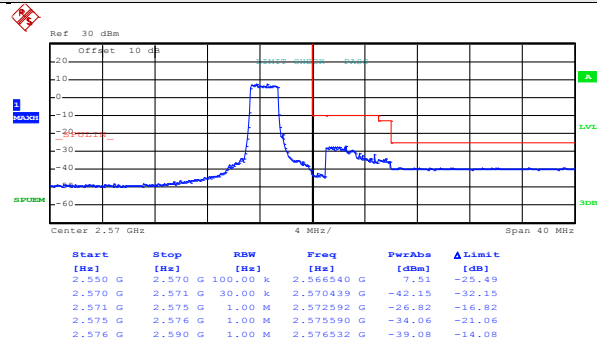
Highest channel

Test Mode: LTE band 7(16QAM RB Size 12 & RB Offset 0)



Date: 31.MAR.2017 17:15:31

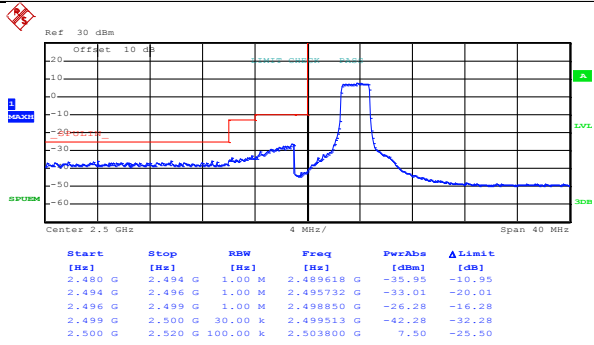
Lowest channel



Date: 31.MAR.2017 17:19:23

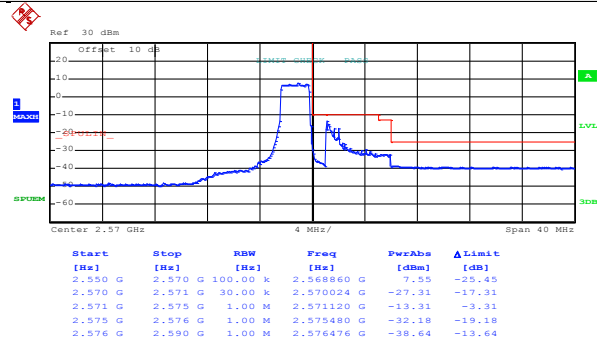
Highest channel

Test Mode: LTE band 7(16QAM RB Size 12 & RB Offset 11)



Date: 31.MAR.2017 17:15:56

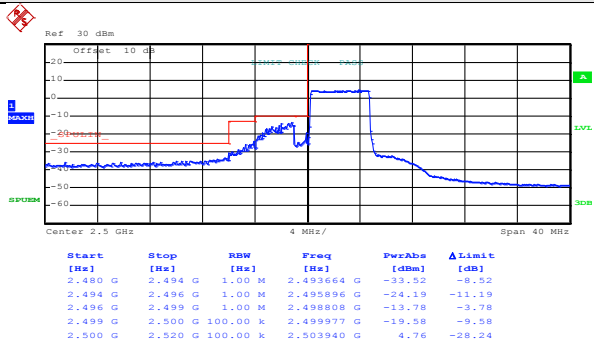
Lowest channel



Date: 31.MAR.2017 17:19:49

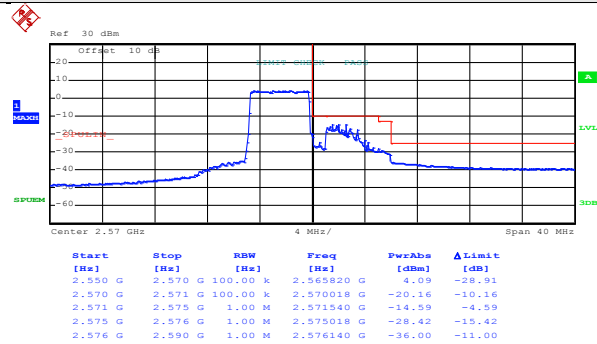
Highest channel

Test Mode: LTE band 7(16QAM RB Size 25 & RB Offset 0)



Date: 31.MAR.2017 17:17:13

Lowest channel

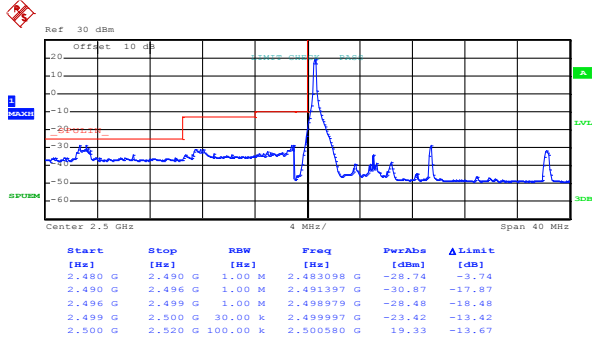


Date: 31.MAR.2017 17:20:37

Highest channel

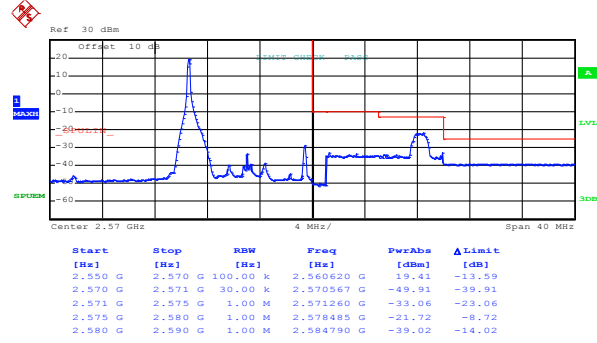
10MHz:

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 0)



Date: 31.MAR.2017 17:23:18

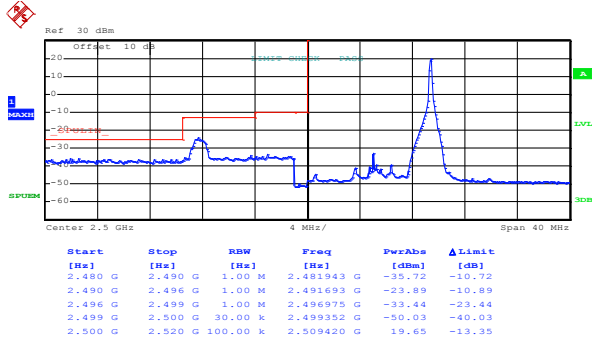
Lowest channel



Date: 31.MAR.2017 17:26:37

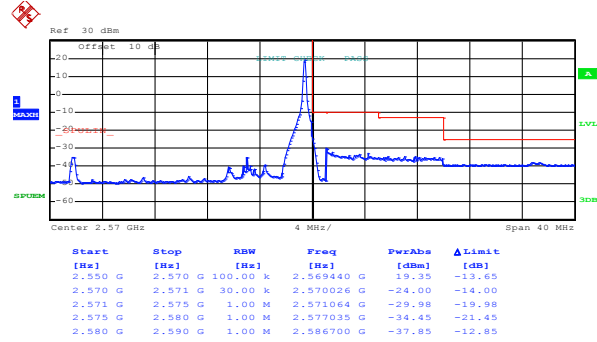
Highest channel

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 49)



Date: 31.MAR.2017 17:23:41

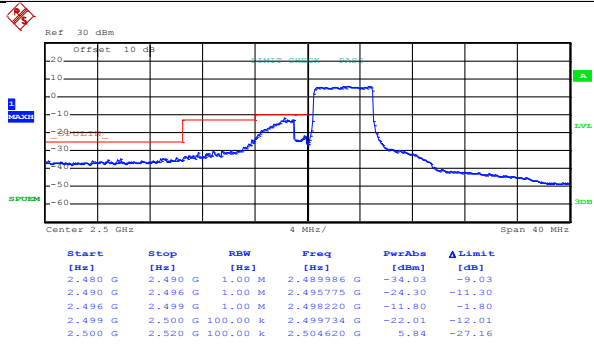
Lowest channel



Date: 31.MAR.2017 17:27:02

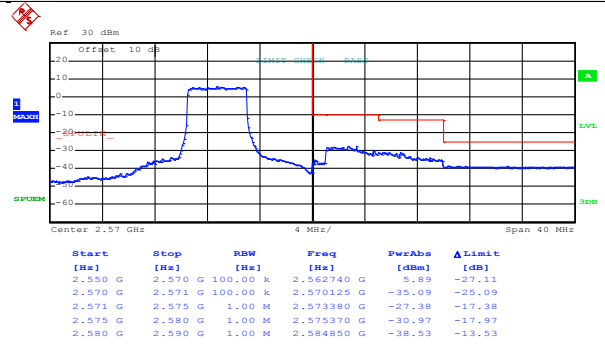
Highest channel

Test Mode: LTE band 7(QPSK RB Size 25 & RB Offset 0)



Date: 31.MAR.2017 17:24:21

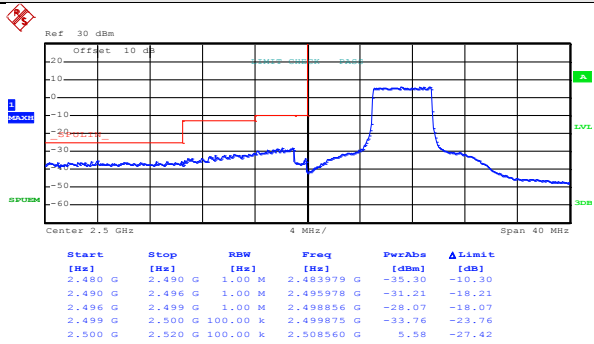
Lowest channel



Date: 31.MAR.2017 17:27:52

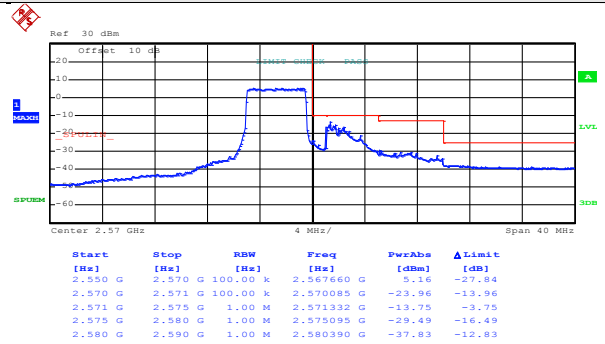
Highest channel

Test Mode: LTE band 7(QPSK RB Size 25 & RB Offset 24)



Date: 31.MAR.2017 17:24:46

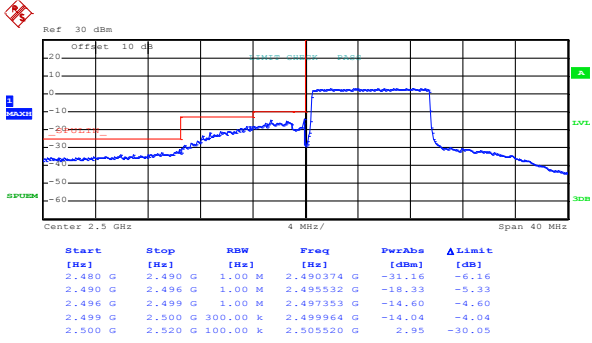
Lowest channel



Date: 31.MAR.2017 17:28:17

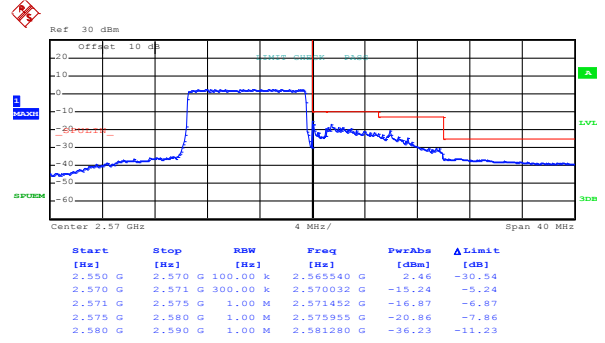
Highest channel

Test Mode: LTE band 7(QPSK RB Size 50 & RB Offset 0)



Date: 31.MAR.2017 17:25:29

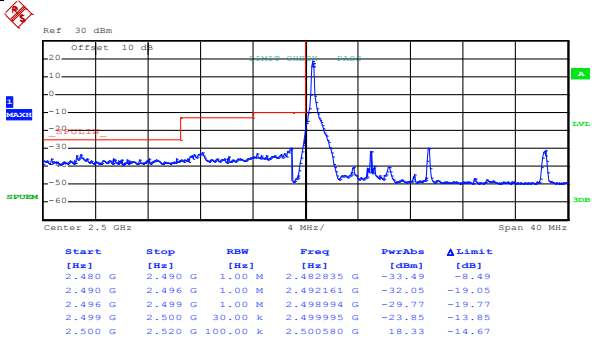
Lowest channel



Date: 31.MAR.2017 17:28:55

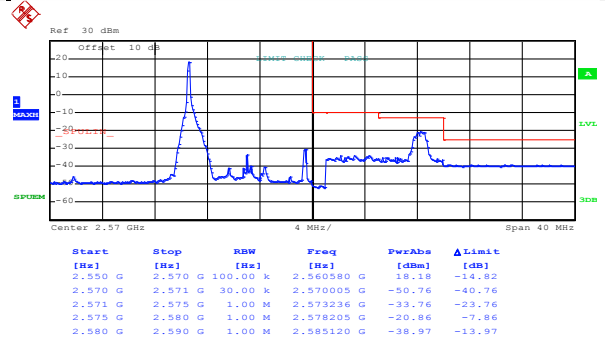
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Date: 31.MAR.2017 17:23:28

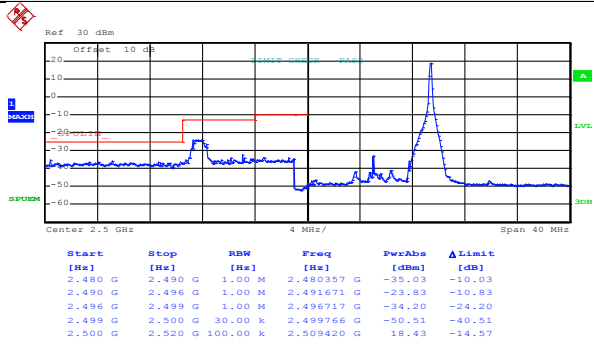
Lowest channel



Date: 31.MAR.2017 17:26:47

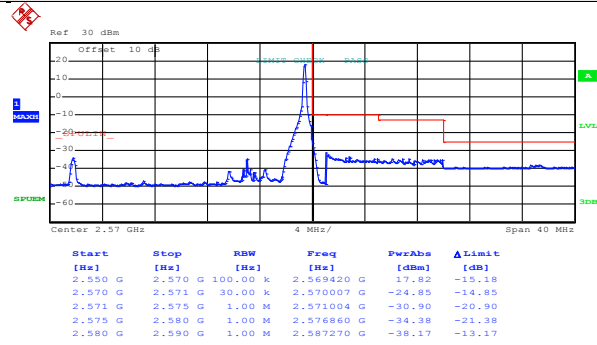
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 49)



Date: 31.MAR.2017 17:23:52

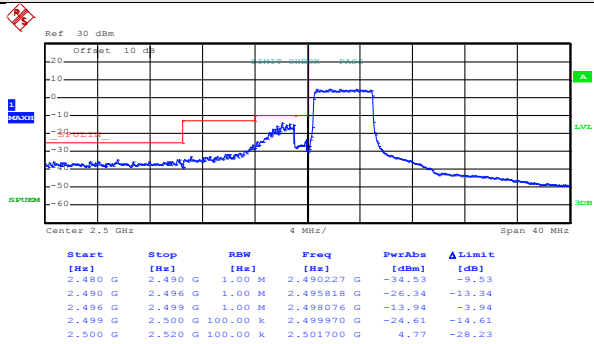
Lowest channel



Date: 31.MAR.2017 17:27:15

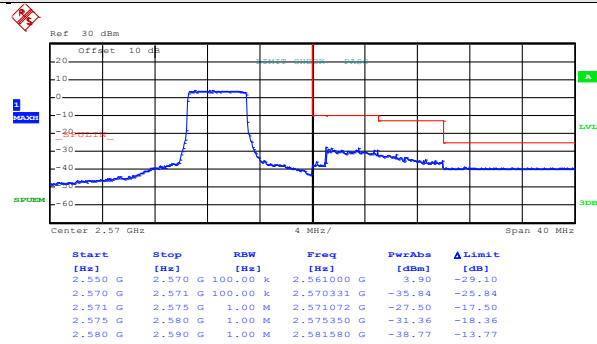
Highest channel

Test Mode: LTE band 7(16QAM RB Size 25 & RB Offset 0)



Date: 31.MAR.2017 17:24:32

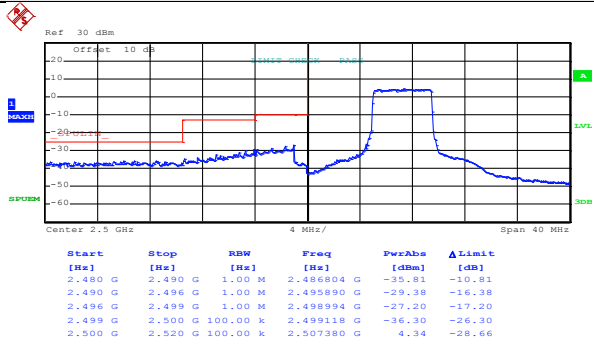
Lowest channel



Date: 31.MAR.2017 17:28:02

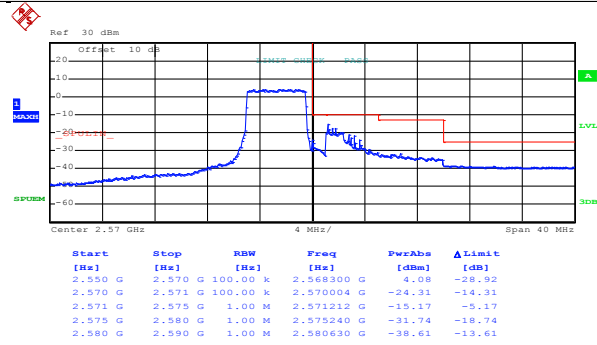
Highest channel

Test Mode: LTE band 7(16QAM RB Size 25 & RB Offset 24)



Date: 31.MAR.2017 17:24:56

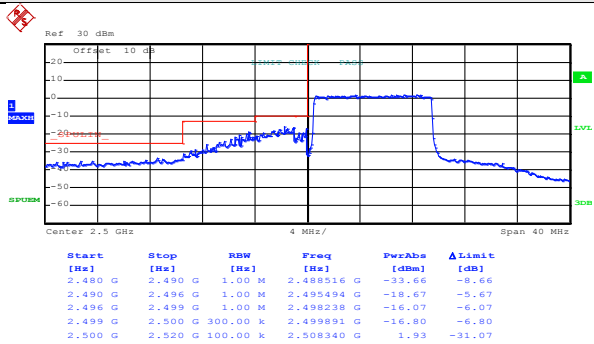
Lowest channel



Date: 31.MAR.2017 17:28:27

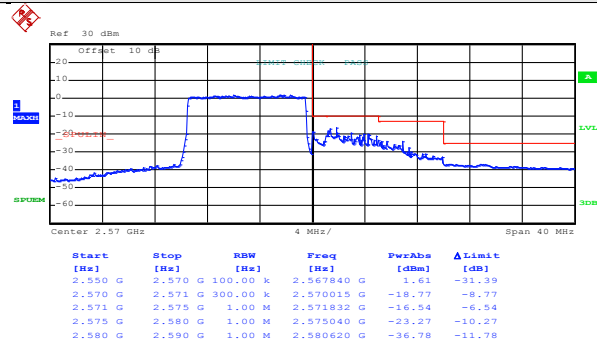
Highest channel

Test Mode: LTE band 7(16QAM RB Size 50 & RB Offset 0)



Date: 31.MAR.2017 17:25:38

Lowest channel

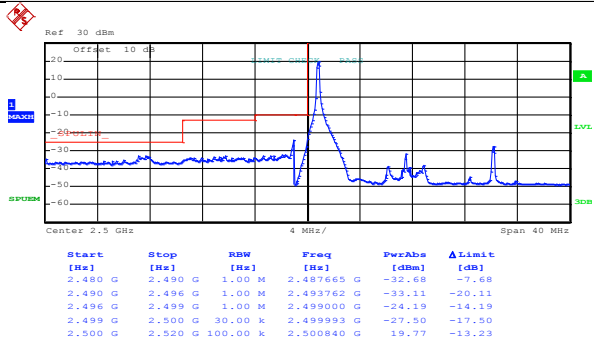


Date: 31.MAR.2017 17:29:07

Highest channel

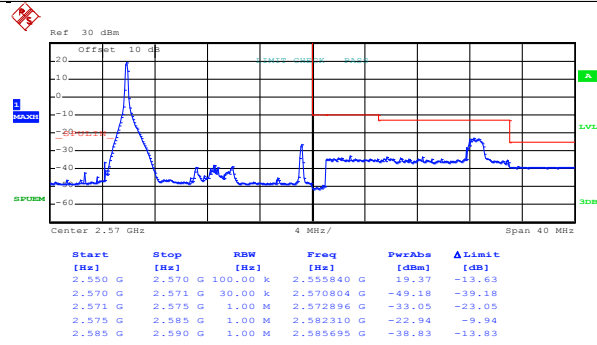
15MHz:

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 0)



Date: 31.MAR.2017 17:30:04

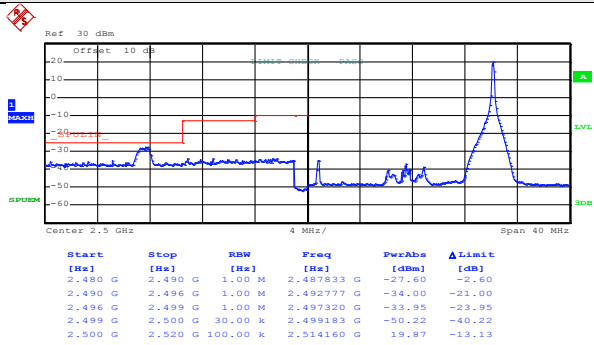
Lowest channel



Date: 31.MAR.2017 17:33:22

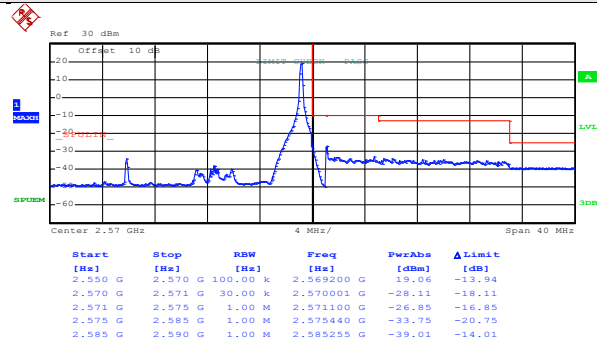
Highest channel

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 74)



Date: 31.MAR.2017 17:30:24

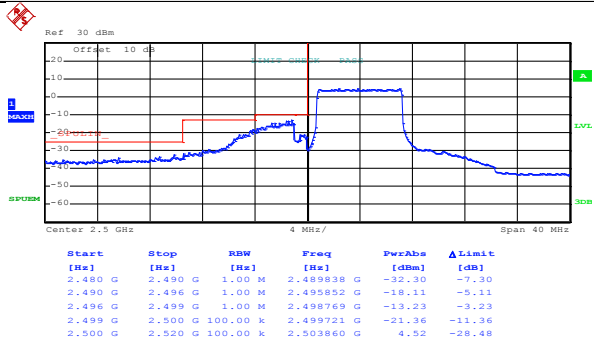
Lowest channel



Date: 31.MAR.2017 17:33:47

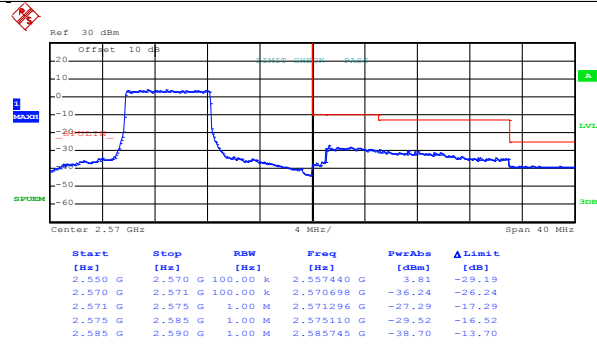
Highest channel

Test Mode: LTE band 7(QPSK RB Size 36 & RB Offset 0)



Date: 31.MAR.2017 17:31:11

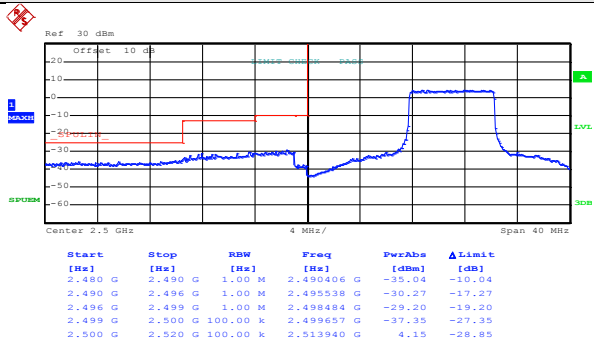
Lowest channel



Date: 31.MAR.2017 18:22:53

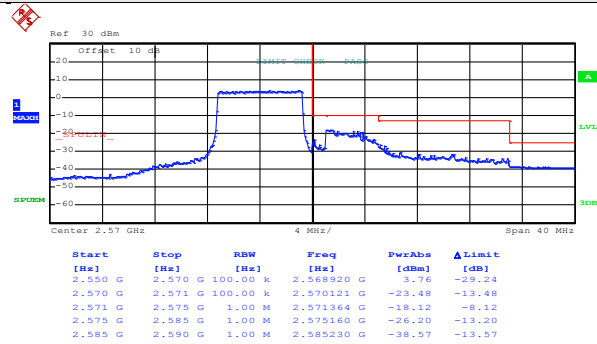
Highest channel

Test Mode: LTE band 7(QPSK RB Size 36 & RB Offset 37)



Date: 31.MAR.2017 17:31:33

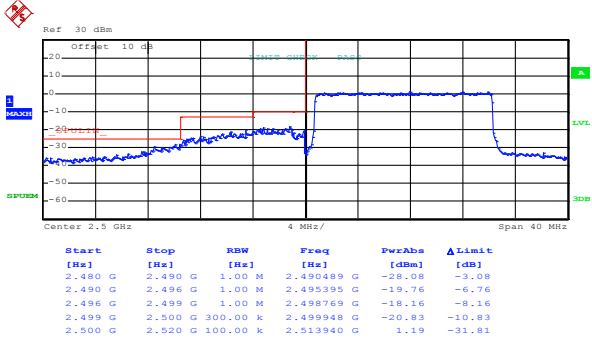
Lowest channel



Date: 31.MAR.2017 17:34:59

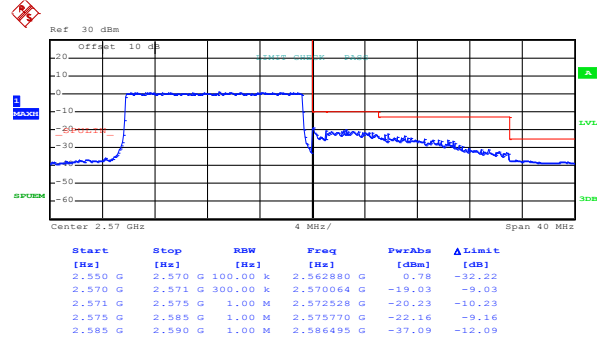
Highest channel

Test Mode: LTE band 7(QPSK RB Size 75 & RB Offset 0)



Date: 31.MAR.2017 17:32:32

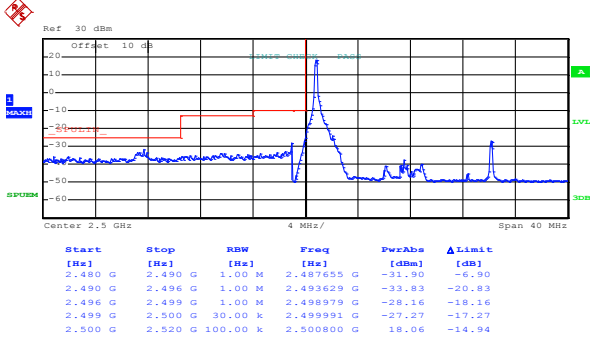
Lowest channel



Date: 31.MAR.2017 17:35:38

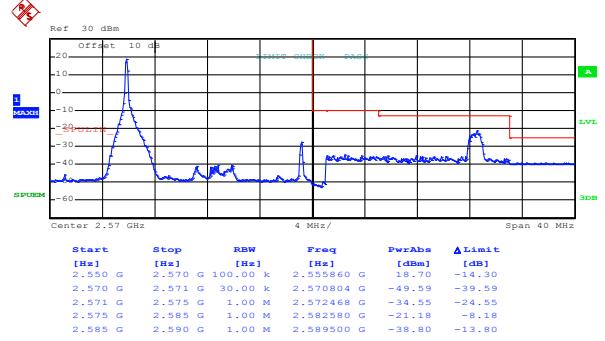
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Date: 31.MAR.2017 17:30:13

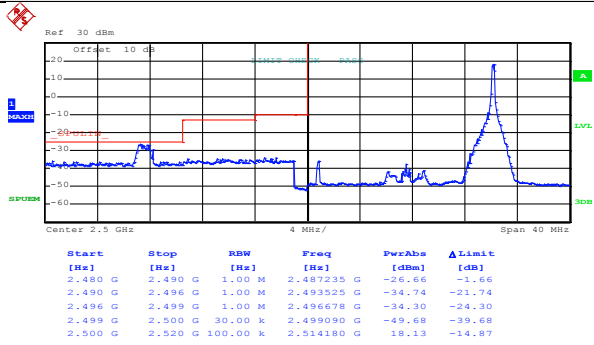
Lowest channel



Date: 31.MAR.2017 17:33:30

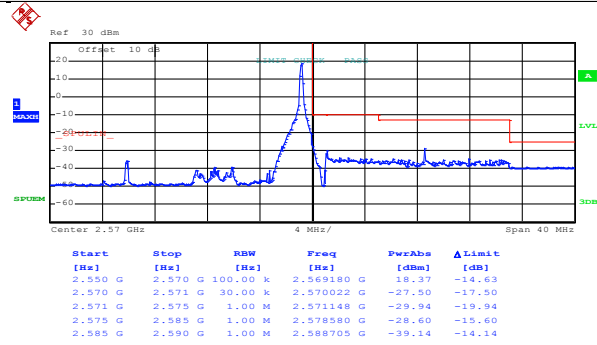
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 74)



Date: 31.MAR.2017 17:30:34

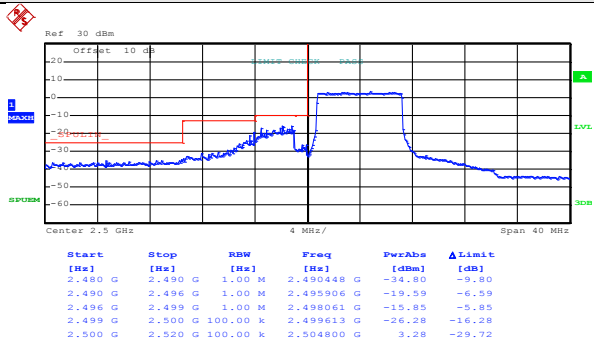
Lowest channel



Date: 31.MAR.2017 17:33:58

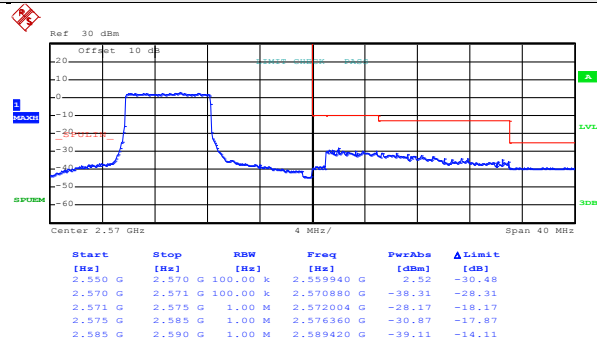
Highest channel

Test Mode: LTE band 7(16QAM RB Size 36 & RB Offset 0)



Date: 31.MAR.2017 17:31:20

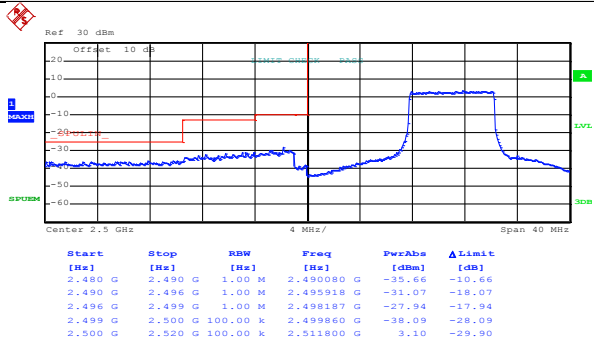
Lowest channel



Date: 31.MAR.2017 17:34:39

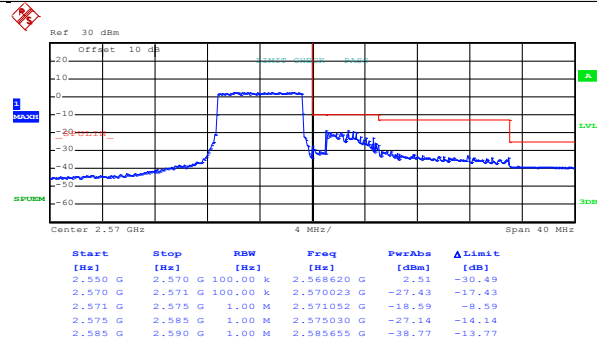
Highest channel

Test Mode: LTE band 7(16QAM RB Size 36 & RB Offset 37)



Date: 31.MAR.2017 17:31:43

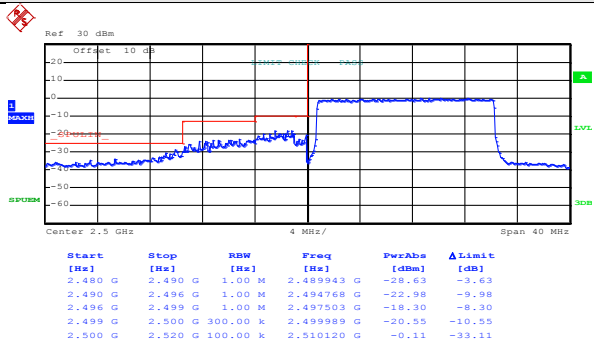
Lowest channel



Date: 31.MAR.2017 17:35:09

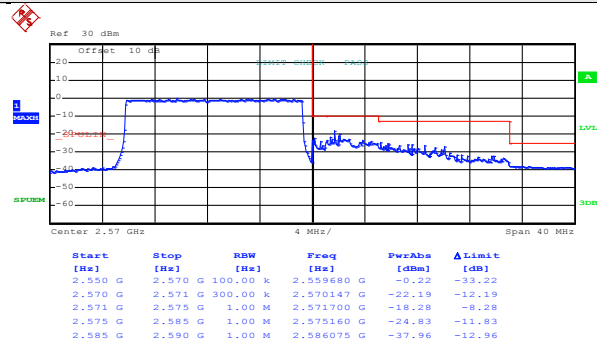
Highest channel

Test Mode: LTE band 7(16QAM RB Size 75 & RB Offset 0)



Date: 31.MAR.2017 17:32:41

Lowest channel

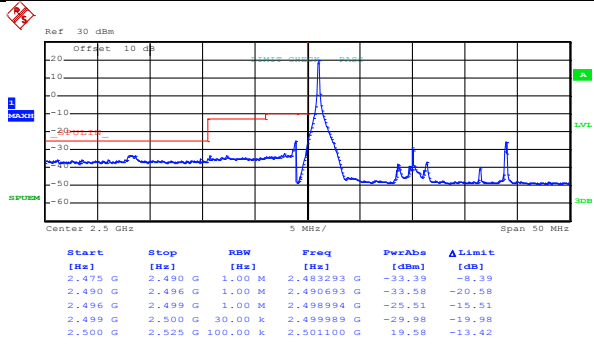


Date: 31.MAR.2017 17:35:49

Highest channel

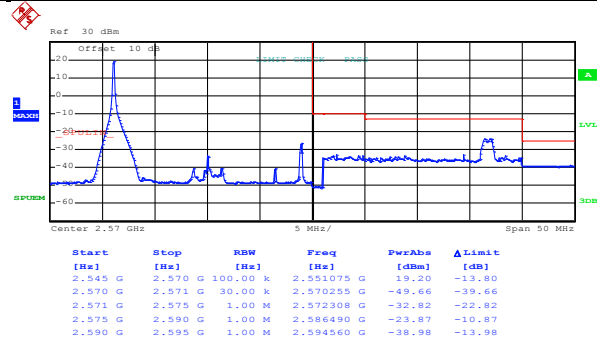
20MHz:

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 0)



Date: 31.MAR.2017 17:37:05

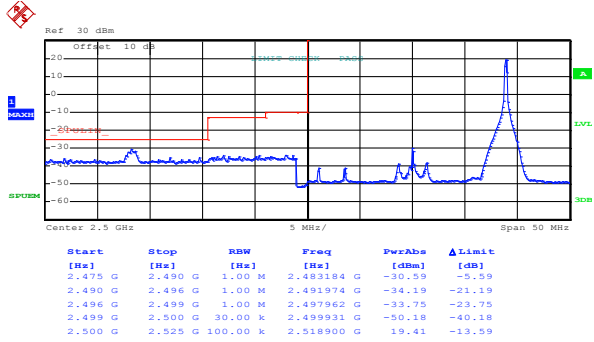
Lowest channel



Date: 31.MAR.2017 17:42:50

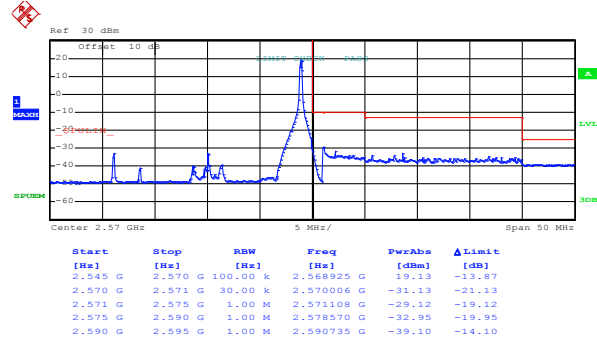
Highest channel

Test Mode: LTE band 7(QPSK RB Size 1 & RB Offset 99)



Date: 31.MAR.2017 17:37:29

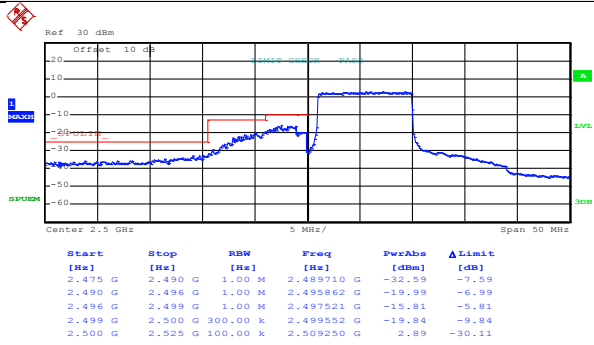
Lowest channel



Date: 31.MAR.2017 17:43:16

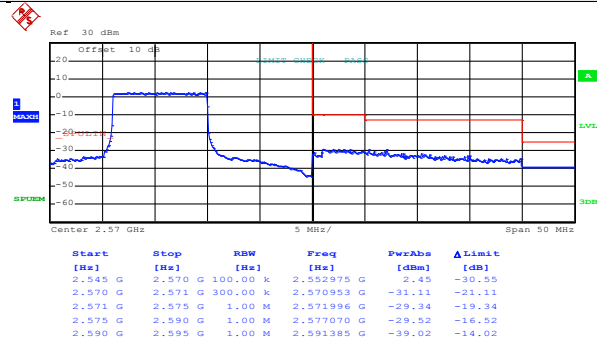
Highest channel

Test Mode: LTE band 7(QPSK RB Size 50 & RB Offset 0)



Date: 31.MAR.2017 17:40:47

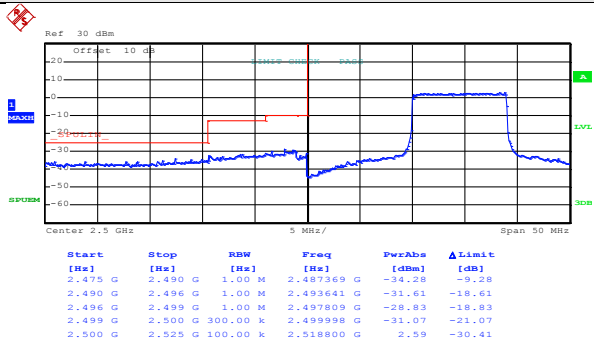
Lowest channel



Date: 31.MAR.2017 17:44:14

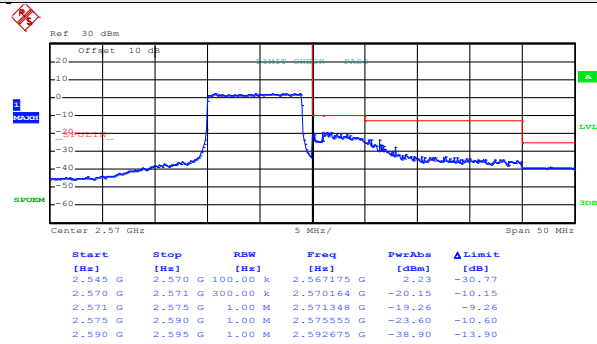
Highest channel

Test Mode: LTE band 7(QPSK RB Size 50 & RB Offset 49)



Date: 31.MAR.2017 17:41:12

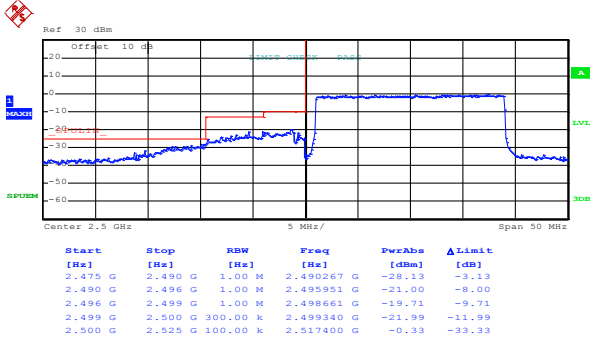
Lowest channel



Date: 31.MAR.2017 17:44:40

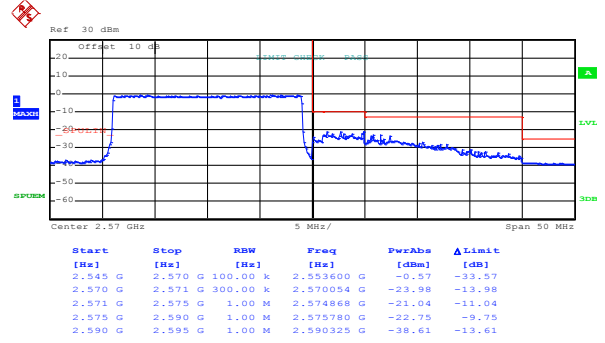
Highest channel

Test Mode: LTE band 7(QPSK RB Size 100 & RB Offset 0)



Date: 31.MAR.2017 17:41:48

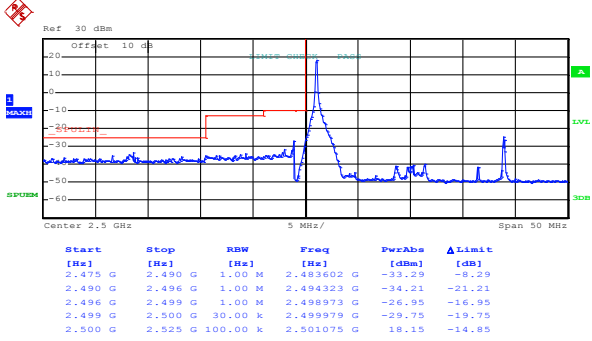
Lowest channel



Date: 31.MAR.2017 17:45:05

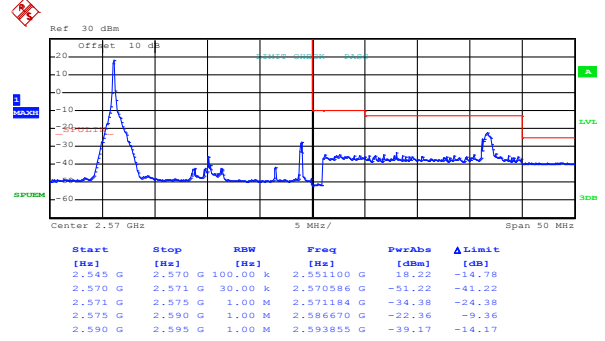
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Date: 31.MAR.2017 17:37:16

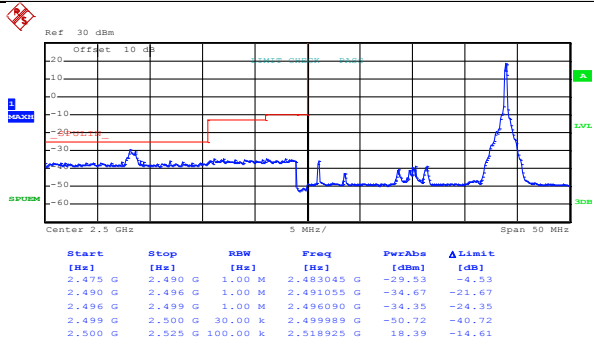
Lowest channel



Date: 31.MAR.2017 17:42:59

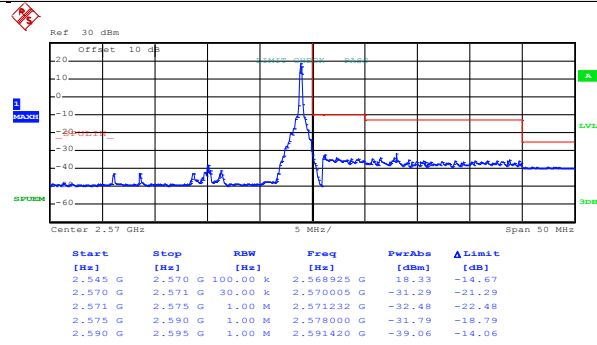
Highest channel

Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 99)



Date: 31.MAR.2017 17:37:40

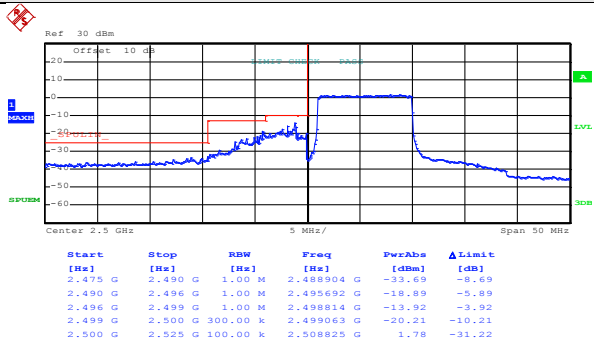
Lowest channel



Date: 31.MAR.2017 17:43:27

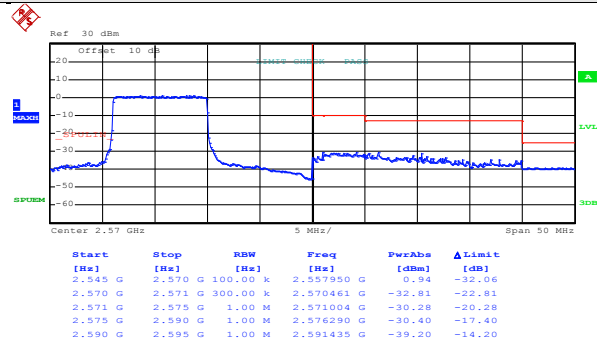
Highest channel

Test Mode: LTE band 7(16QAM RB Size 50 & RB Offset 0)



Date: 31.MAR.2017 17:40:59

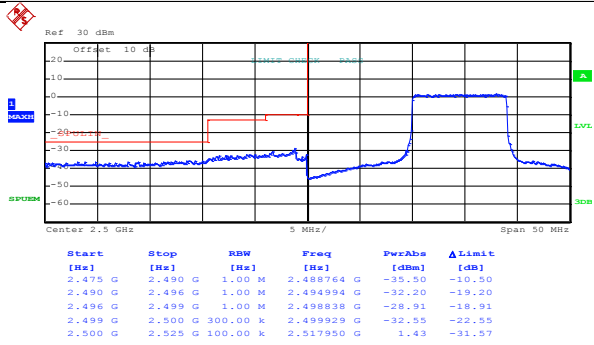
Lowest channel



Date: 31.MAR.2017 17:44:24

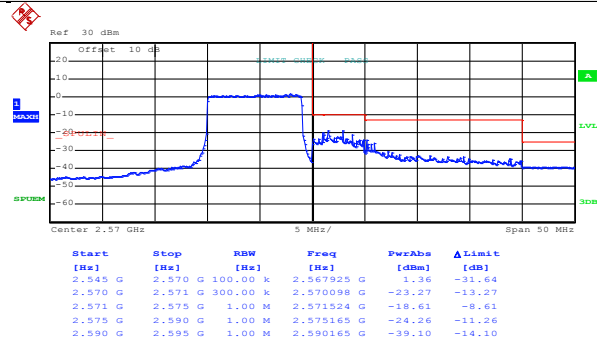
Highest channel

Test Mode: LTE band 7(16QAM RB Size 50 & RB Offset 49)



Date: 31.MAR.2017 17:41:26

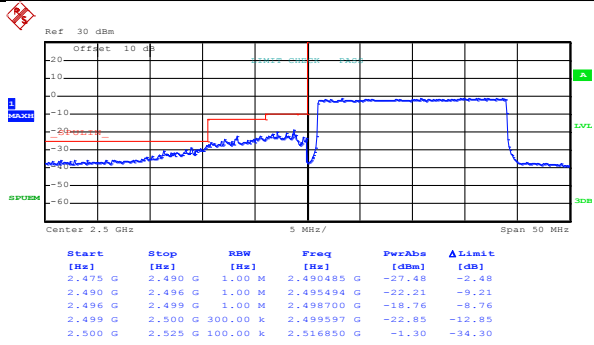
Lowest channel



Date: 31.MAR.2017 17:44:53

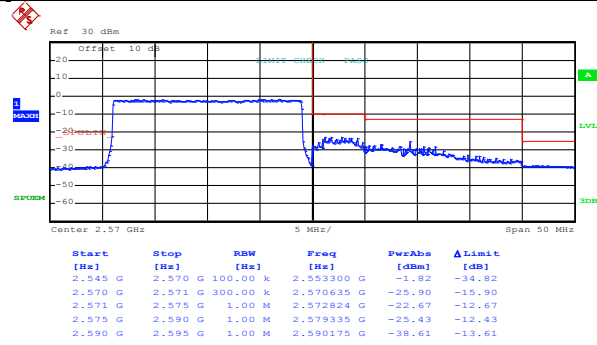
Highest channel

Test Mode: LTE band 7(16QAM RB Size 100 & RB Offset 0)



Date: 31.MAR.2017 17:42:00

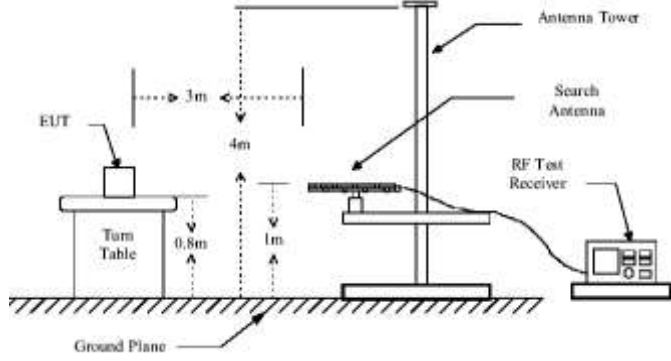
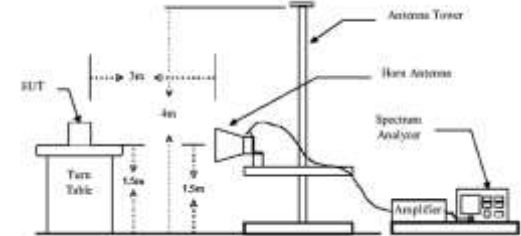
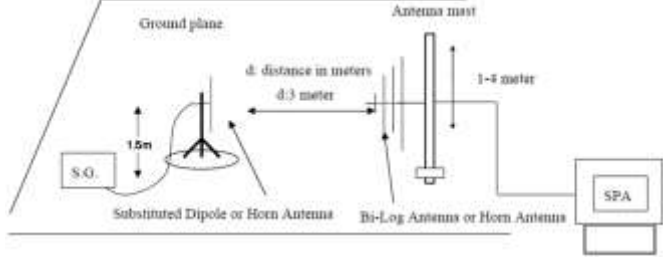
Lowest channel



Date: 31.MAR.2017 17:45:14

Highest channel

6.10 ERP, EIRP Measurement

Test Requirement:	24.232 (c), part 27.50(d), part 27.50 (h)
Test Method:	FCC part2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 7: 2W EIRP
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 

<p>Test Procedure:</p>	<ol style="list-style-type: none"> 1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP in frequency band below 1GHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 4. EIRP in frequency band above 1GHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$ 5. The worse case was relating to the conducted output power.
<p>Test Instruments:</p>	<p>Refer to section 5.8 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Passed</p>

Measurement Data (worst case):

LTE band 2 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	21.47	33.00	Pass
					H	23.49		
1850.70	18607	16QAM	1.4	H	V	21.12		
					H	23.54		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	21.13	33.00	Pass
					H	23.45		
1850.70	18607	16QAM	1.4	H	V	21.36		
					H	23.45		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	19.89	33.00	Pass
					H	21.96		
1850.70	18607	16QAM	1.4	H	V	20.10		
					H	22.38		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	21.25	33.00	Pass
					H	23.69		
1880.00	18900	16QAM	1.4	H	V	21.48		
					H	23.63		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	21.14	33.00	Pass
					H	23.25		
1880.00	18900	16QAM	1.4	H	V	21.53		
					H	23.35		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.40	H	V	19.86	33.00	Pass
					H	21.52		
1880.00	18900	16QAM	1.40	H	V	20.35		
					H	22.45		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	21.58	33.00	Pass
					H	23.58		
1909.30	19193	16QAM	1.4	H	V	21.46		
					H	24.12		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	21.14	33.00	Pass
					H	23.36		
1909.30	19193	16QAM	1.4	H	V	21.24		
					H	23.18		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	19.87	33.00	Pass
					H	21.76		
1909.30	19193	16QAM	1.4	H	V	20.32		
					H	22.15		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	21.45	33.00	Pass
					H	23.64		
1860.00	18700	16QAM	20	H	V	21.73		
					H	24.07		
20MHz(RB size 50 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	16.85	33.00	Pass
					H	19.00		
1860.00	18700	16QAM	20	H	V	17.37		
					H	19.65		
20MHz(RB size 100 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	17.90	33.00	Pass
					H	20.31		
1860.00	18700	16QAM	20	H	V	18.35		
					H	20.71		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	21.74	33.00	Pass
					H	23.55		
1880.00	18900	16QAM	20	H	V	21.85		
					H	23.95		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	16.53	33.00	Pass
					H	18.96		
1880.00	18900	16QAM	20	H	V	17.45		
					H	19.63		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	17.92	33.00	Pass
					H	20.15		
1880.00	18900	16QAM	20	H	V	18.62		
					H	20.78		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	21.19	33.00	Pass
					H	23.63		
1900.00	19100	16QAM	20	H	V	21.83		
					H	23.58		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	16.58	33.00	Pass
					H	19.10		
1900.00	19100	16QAM	20	H	V	18.55		
					H	19.33		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	16.58	33.00	Pass
					H	19.10		
1900.00	19100	16QAM	20	H	V	18.55		
					H	19.33		

LTE band 4 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.51	30.00	Pass
					H	14.59		
1710.70	19957	16QAM	1.4	H	V	21.41		
					H	14.24		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.11	30.00	Pass
					H	14.51		
1710.70	19957	16QAM	1.4	H	V	21.12		
					H	14.37		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	20.16	30.00	Pass
					H	14.39		
1710.70	19957	16QAM	1.4	H	V	20.58		
					H	14.62		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	21.53	30.00	Pass
					H	14.75		
1732.50	20175	16QAM	1.4	H	V	21.60		
					H	14.86		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	21.36	30.00	Pass
					H	14.58		
1732.50	20175	16QAM	1.4	H	V	21.75		
					H	14.77		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	20.41	30.00	Pass
					H	14.55		
1732.50	20175	16QAM	1.4	H	V	20.73		
					H	14.86		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	21.45	30.00	Pass
					H	14.58		
1754.30	20393	16QAM	1.4	H	V	21.63		
					H	14.72		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	21.56	30.00	Pass
					H	14.53		
1754.30	20393	16QAM	1.4	H	V	21.68		
					H	14.47		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	20.28	30.00	Pass
					H	14.68		
1754.30	20393	16QAM	1.4	H	V	20.35		
					H	14.79		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	21.67	30.00	Pass
					H	15.92		
1720.00	20050	16QAM	20	H	V	21.79		
					H	16.24		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	21.23	30.00	Pass
					H	15.28		
1720.00	20050	16QAM	20	H	V	21.20		
					H	15.70		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	19.24	30.00	Pass
					H	13.87		
1720.00	20050	16QAM	20	H	V	20.13		
					H	14.67		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	21.52	30.00	Pass
					H	15.82		
1732.50	20175	16QAM	20	H	V	21.36		
					H	16.36		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	21.36	30.00	Pass
					H	15.57		
1732.50	20175	16QAM	20	H	V	21.54		
					H	15.78		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	19.25	30.00	Pass
					H	14.03		
1732.50	20175	16QAM	20	H	V	20.44		
					H	14.32		

High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	21.82	30.00	Pass
					H	15.89		
1745.00	20300	16QAM	20	H	V	21.51		
					H	15.74		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	21.41	30.00	Pass
					H	15.82		
1745.00	20300	16QAM	20	H	V	21.43		
					H	15.68		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	19.17	30.00	Pass
					H	13.86		
1745.00	20300	16QAM	20	H	V	20.46		
					H	14.40		

LTE band 7 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	21.38	33.00	Pass
					H	19.05		
2502.50	20775	16QAM	5	H	V	21.35		
					H	19.14		
5MHz(RB size 12& RB offset 0)								
2502.50	20775	QPSK	5	H	V	20.71	33.00	Pass
					H	18.49		
2502.50	20775	16QAM	5	H	V	20.82		
					H	18.81		
5MHz(RB size 25& RB offset 0)								
2502.50	20775	QPSK	5	H	V	18.71	33.00	Pass
					H	16.84		
2502.50	20775	16QAM	5	H	V	18.95		
					H	16.92		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	21.54	33.00	Pass
					H	19.12		
2535.00	21100	16QAM	5	H	V	21.32		
					H	19.24		
5MHz(RB size 12& RB offset 0)								
2535.00	21100	QPSK	5	H	V	20.58	33.00	Pass
					H	18.63		
2535.00	21100	16QAM	5	H	V	20.75		
					H	18.62		
5MHz(RB size 25& RB offset 0)								
2535.00	21100	QPSK	5	H	V	18.86	33.00	Pass
					H	16.67		
2535.00	21100	16QAM	5	H	V	18.59		
					H	16.76		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	21.35	33.00	Pass
					H	19.10		
2567.50	21425	16QAM	5	H	V	21.33		
					H	19.09		
5MHz(RB size 12& RB offset 0)								
2567.50	21425	QPSK	5	H	V	20.47	33.00	Pass
					H	18.69		
2567.50	21425	16QAM	5	H	V	20.41		
					H	18.72		
5MHz(RB size 25& RB offset 0)								
2567.50	21425	QPSK	5	H	V	18.46	33.00	Pass
					H	17.20		
2567.50	21425	16QAM	5	H	V	18.42		
					H	17.69		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	21.26	33.00	Pass
					H	19.09		
2510.00	20850	16QAM	20	H	V	21.29		
					H	19.27		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	20.00	33.00	Pass
					H	18.45		
2510.00	20850	16QAM	20	H	V	20.46		
					H	18.96		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	18.17	33.00	Pass
					H	16.90		
2510.00	20850	16QAM	20	H	V	18.39		
					H	17.12		

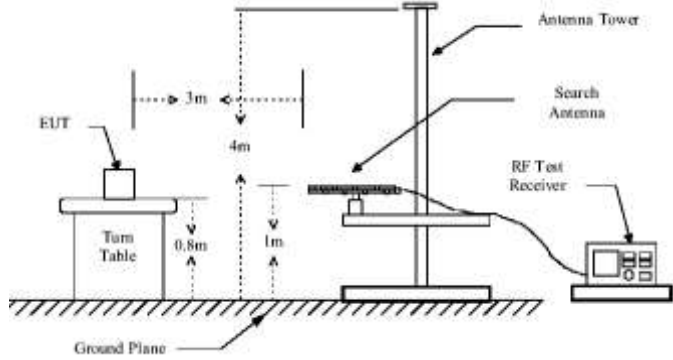
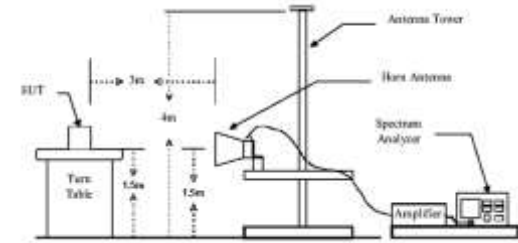
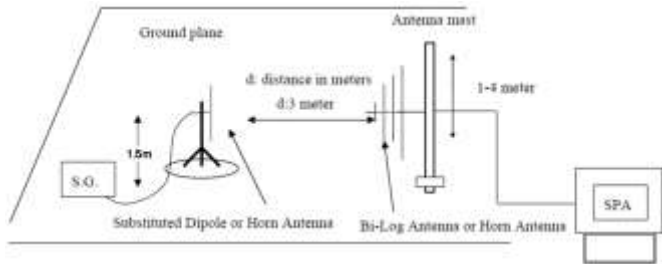
Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	21.33	33.00	Pass
					H	19.12		
2535.00	21100	16QAM	20	H	V	21.42		
					H	19.25		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	19.95	33.00	Pass
					H	18.52		
2535.00	21100	16QAM	20	H	V	20.75		
					H	18.91		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	18.56	33.00	Pass
					H	16.86		
2535.00	21100	16QAM	20	H	V	18.51		
					H	17.16		

High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	21.24	33.00	Pass
					H	19.13		
2560.00	21350	16QAM	20	H	V	21.51		
					H	19.09		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	20.04	33.00	Pass
					H	18.76		
2560.00	21350	16QAM	20	H	V	20.64		
					H	18.82		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	18.35	33.00	Pass
					H	18.76		
2560.00	21350	16QAM	20	H	V	18.42		
					H	17.23		

6.11 Field strength of spurious radiation measurement

Test Requirement:	Part 24.238 (a), Part 27.53(m), Part 27.53(h)
Test Method:	FCC part2.1053
Limit:	LTE Band 2, LTE Band 4 and LTE Band 5 : -13dBm, LTE Band 7: -25dBm
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

	$ERP / EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data (worst case):

Below 1GHz:

The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.

Above 1GHz

For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

LTE band 2 part:

1.4MHz(RB size 1 & RB offset 0) for QPSK

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3701.40	Vertical	-41.23	-13.00	Pass
5552.10	V	-36.73		
7402.00	V	-36.00		
3701.40	Horizontal	-42.98		
5552.10	H	-38.34		
7402.00	H	-33.45		
Middle				
3760.00	Vertical	-44.60	-13.00	Pass
5640.00	V	-37.64		
7520.00	V	-36.34		
3760.00	Horizontal	-46.96		
5640.00	H	-38.55		
7520.00	H	-35.52		
Highest				
3816.60	Vertical	-43.78	-13.00	Pass
5724.90	V	-38.24		
7633.20	V	-32.32		
3816.60	Horizontal	-45.74		
5724.90	H	-39.79		
7633.20	H	-32.60		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3703.00	Vertical	-42.22	-13.00	Pass
5554.50	V	-38.51		
7406.00	V	-37.46		
3703.00	Horizontal	-45.77		
5554.50	H	-39.63		
7406.00	H	-35.12		
Middle				
3760.00	Vertical	-45.86	-13.00	Pass
5640.00	V	-39.16		
7520.00	V	-37.45		
3760.00	Horizontal	-46.96		
5640.00	H	-39.85		
7520.00	H	-37.44		
Highest				
3817.00	Vertical	-45.26	-13.00	Pass
5725.50	V	-39.65		
7634.00	V	-34.17		
3817.00	Horizontal	-47.15		
5725.50	H	-40.92		
7634.00	H	-35.26		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3705.00	Vertical	-42.36	-13.00	Pass
5557.50	V	-38.56		
7410.00	V	-38.15		
3705.00	Horizontal	-44.36		
5557.50	H	-38.51		
7410.00	H	-35.75		
Middle				
3760.00	Vertical	-42.53	-13.00	Pass
5640.00	V	-38.05		
7520.00	V	-37.69		
3760.00	Horizontal	-47.15		
5640.00	H	-41.20		
7520.00	H	-37.15		
Highest				
3815.00	Vertical	-44.63	-13.00	Pass
5722.50	V	-40.25		
7630.00	V	-34.18		
3815.00	Horizontal	-47.56		
5722.50	H	-41.32		
7630.00	H	-35.26		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3710.00	Vertical	-43.51	-13.00	Pass
5565.00	V	-37.81		
7420.00	V	-38.46		
3710.00	Horizontal	-45.81		
5565.00	H	-39.26		
7420.00	H	-34.17		
Middle				
3760.00	Vertical	-44.26	-13.00	Pass
5640.00	V	-39.75		
7520.00	V	-38.56		
3760.00	Horizontal	-47.56		
5640.00	H	-41.23		
7520.00	H	-38.23		
Highest				
3810.00	Vertical	-46.23	-13.00	Pass
5715.00	V	-39.87		
7620.00	V	-35.00		
3810.00	Horizontal	-46.89		
5715.00	H	-41.02		
7620.00	H	-34.58		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3715.00	Vertical	-43.25	-13.00	Pass
5572.50	V	-37.15		
7430.00	V	-37.09		
3715.00	Horizontal	-43.63		
5572.50	H	-38.95		
7430.00	H	-35.26		
Middle				
3760.00	Vertical	-45.21	-13.00	Pass
5640.00	V	-38.76		
7520.00	V	-37.46		
3760.00	Horizontal	-48.75		
5640.00	H	-40.23		
7520.00	H	-37.85		
Highest				
3805.00	Vertical	-45.25	-13.00	Pass
5707.50	V	-38.56		
7610.00	V	-33.75		
3805.00	Horizontal	-46.85		
5707.50	H	-40.25		
7610.00	H	-34.71		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3720.00	Vertical	-42.63	-13.00	Pass
5580.00	V	-38.32		
7440.00	V	-37.00		
3720.00	Horizontal	-46.12		
5580.00	H	-37.15		
7440.00	H	-34.88		
Middle				
3760.00	Vertical	-42.42	-13.00	Pass
5640.00	V	-38.37		
7520.00	V	-36.52		
3760.00	Horizontal	-49.36		
5640.00	H	-40.13		
7520.00	H	-36.32		
Highest				
3800.00	Vertical	-45.01	-13.00	Pass
5700.00	V	-38.61		
7600.00	V	-33.99		
3800.00	Horizontal	-47.96		
5700.00	H	-40.67		
7600.00	H	-34.27		

LTE Band 4 Part:

1.4MHz(RB size 1 & RB offset 0) for QPSK

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3421.40	Vertical	-42.64	-13.00	Pass
5132.10	V	-37.43		
6842.80	V	-38.50		
3421.40	Horizontal	-48.06		
5132.10	H	-36.33		
6842.80	H	-37.27		
Middle				
3465.00	Vertical	-45.24	-13.00	Pass
5197.50	V	-32.02		
6930.00	V	-36.12		
3465.00	Horizontal	-49.18		
5197.50	H	-30.21		
6930.00	H	-36.02		
Highest				
3508.60	Vertical	-44.61	-13.00	Pass
5262.90	V	-39.58		
7017.20	V	-35.98		
3508.60	Horizontal	-49.36		
5262.90	H	-39.98		
7017.20	H	-38.25		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-42.56	-13.00	Pass
5134.50	V	-33.15		
6846.00	V	-37.84		
3423.00	Horizontal	-46.36		
5134.50	H	-37.84		
6846.00	H	-38.56		
Middle				
3465.00	Vertical	-45.26	-13.00	Pass
5197.50	V	-33.14		
6930.00	V	-36.97		
3465.00	Horizontal	-48.56		
5197.50	H	-34.26		
6930.00	H	-36.75		
Highest				
3507.00	Vertical	-45.72	-13.00	Pass
5260.50	V	-35.21		
7014.00	V	-35.47		
3507.00	Horizontal	-48.52		
5260.50	H	-33.67		
7014.00	H	-35.69		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-42.36	-13.00	Pass
5137.50	V	-35.26		
6850.00	V	-37.81		
3425.00	Horizontal	-46.36		
5137.50	H	-37.58		
6850.00	H	-37.92		
Middle				
3465.00	Vertical	-46.36	-13.00	Pass
5197.50	V	-32.17		
6930.00	V	-37.85		
3465.00	Horizontal	-48.57		
5197.50	H	-32.52		
6930.00	H	-38.56		
Highest				
3505.00	Vertical	-44.25	-13.00	Pass
5257.50	V	-36.75		
7010.00	V	-35.23		
3505.00	Horizontal	-47.51		
5257.50	H	-33.69		
7010.00	H	-36.26		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-41.02	-13.00	Pass
5145.00	V	-34.82		
6860.00	V	-36.87		
3430.00	Horizontal	-47.55		
5145.00	H	-38.55		
6860.00	H	-36.79		
Middle				
3465.00	Vertical	-45.16	-13.00	Pass
5197.50	V	-32.47		
6930.00	V	-37.85		
3465.00	Horizontal	-49.67		
5197.50	H	-33.26		
6930.00	H	-37.48		
Highest				
3500.00	Vertical	-44.21	-13.00	Pass
5250.00	V	-34.15		
7000.00	V	-34.72		
3500.00	Horizontal	-47.56		
5250.00	H	-32.18		
7000.00	H	-38.92		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-41.56	-13.00	Pass
5152.50	V	-34.86		
6870.00	V	-37.92		
3435.00	Horizontal	-45.77		
5152.50	H	-38.59		
6870.00	H	-37.46		
Middle				
3465.00	Vertical	-45.69	-13.00	Pass
5197.50	V	-33.85		
6930.00	V	-36.86		
3465.00	Horizontal	-49.63		
5197.50	H	-31.48		
6930.00	H	-37.81		
Highest				
3495.00	Vertical	-45.21	-13.00	Pass
5242.50	V	-37.42		
6990.00	V	-35.21		
3495.00	Horizontal	-48.26		
5242.50	H	-34.15		
6990.00	H	-35.82		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-44.68	-13.00	Pass
5160.00	V	-32.06		
6880.00	V	-36.45		
3440.00	Horizontal	-45.11		
5160.00	H	-38.29		
6880.00	H	-37.11		
Middle				
3465.00	Vertical	-47.25	-13.00	Pass
5197.50	V	-31.68		
6930.00	V	-37.87		
3465.00	Horizontal	-48.52		
5197.50	H	-34.83		
6930.00	H	-35.51		
Highest				
3490.00	Vertical	-46.16	-13.00	Pass
5235.00	V	-31.70		
6980.00	V	-35.36		
3490.00	Horizontal	-47.72		
5235.00	H	-31.78		
6980.00	H	-38.53		

LTE Band 7 Part:

5MHz(RB size 1 & RB offset 0) for QPSK

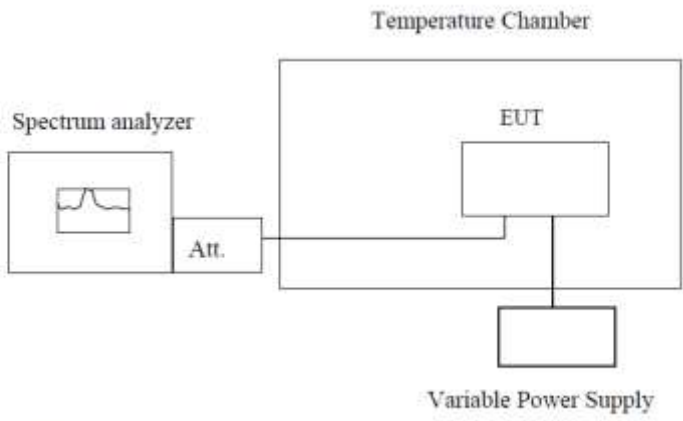
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5005.00	Vertical	-28.80	-25.00	Pass
7507.50	V	-30.57		
5005.00	Horizontal	-28.33		
7507.50	H	-26.48		
Middle				
5070.00	Vertical	-28.56	-25.00	Pass
7605.00	V	-32.08		
5070.00	Horizontal	-29.70		
7605.00	H	-26.29		
Highest				
5135.00	Vertical	-28.02	-25.00	Pass
7702.50	V	-32.14		
5135.00	Horizontal	-28.06		
7702.50	H	-27.92		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5010.00	Vertical	-28.88	-25.00	Pass
7515.00	V	-32.46		
5010.00	Horizontal	-28.28		
7515.00	H	-26.53		
Middle				
5070.00	Vertical	-27.93	-25.00	Pass
7605.00	V	-30.71		
5070.00	Horizontal	-29.82		
7605.00	H	-26.17		
Highest				
5130.00	Vertical	-29.93	-25.00	Pass
7695.00	V	-31.07		
5130.00	Horizontal	-27.93		
7695.00	H	-26.76		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5015.00	Vertical	-28.96	-25.00	Pass
7522.50	V	-30.14		
5015.00	Horizontal	-28.72		
7522.50	H	-26.95		
Middle				
5070.00	Vertical	-28.17	-25.00	Pass
7605.00	V	-31.75		
5070.00	Horizontal	-29.28		
7605.00	H	-27.10		
Highest				
5125.00	Vertical	-28.16	-25.00	Pass
7687.50	V	-31.40		
5125.00	Horizontal	-28.69		
7687.50	H	-27.36		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5020.00	Vertical	-29.07	-25.00	Pass
7530.00	V	-32.42		
5020.00	Horizontal	-29.13		
7530.00	H	-26.39		
Middle				
5070.00	Vertical	-27.20	-25.00	Pass
7605.00	V	-31.15		
5070.00	Horizontal	-28.76		
7605.00	H	-25.24		
Highest				
5120.00	Vertical	-29.35	-25.00	Pass
7680.00	V	-32.79		
5120.00	Horizontal	-28.70		
7680.00	H	-26.00		

6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	±2.5ppm
Test setup:	 <p>Note : Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> 1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Measurement Data (the worst channel):

LTE Band 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	198	0.105319	±2.5	Pass
	-20	122	0.064894		
	-10	166	0.088298		
	0	184	0.097872		
	10	172	0.091489		
	20	130	0.069149		
	30	131	0.069681		
	40	145	0.077128		
	50	156	0.082979		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	194	0.103191	±2.5	Pass
	-20	182	0.096809		
	-10	165	0.087766		
	0	183	0.097340		
	10	114	0.060638		
	20	125	0.066489		
	30	138	0.073404		
	40	101	0.053723		
	50	145	0.077128		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	191	0.101596	±2.5	Pass
	-20	181	0.096277		
	-10	132	0.070213		
	0	140	0.074468		
	10	175	0.093085		
	20	101	0.053723		
	30	153	0.081383		
	40	165	0.087766		
	50	161	0.085638		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	189	0.100532	±2.5	Pass
	-20	151	0.080319		
	-10	162	0.086170		
	0	144	0.076596		
	10	111	0.059043		
	20	122	0.064894		
	30	154	0.081915		
	40	105	0.055851		
	50	113	0.060106		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	181	0.096277	±2.5	Pass
	-20	125	0.066489		
	-10	183	0.097340		
	0	154	0.081915		
	10	165	0.087766		
	20	193	0.102660		
	30	124	0.065957		
	40	134	0.071277		
	50	141	0.075000		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	197	0.104787	±2.5	Pass
	-20	121	0.064362		
	-10	162	0.086170		
	0	143	0.076064		
	10	174	0.092553		
	20	185	0.098404		
	30	153	0.081383		
	40	165	0.087766		
	50	136	0.072340		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	194	0.103191	±2.5	Pass
	-20	142	0.075532		
	-10	151	0.080319		
	0	182	0.096809		
	10	173	0.092021		
	20	165	0.087766		
	30	176	0.093617		
	40	134	0.071277		
	50	135	0.071809		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	169	0.089894	±2.5	Pass
	-20	174	0.092553		
	-10	175	0.093085		
	0	163	0.086702		
	10	155	0.082447		
	20	134	0.071277		
	30	132	0.070213		
	40	103	0.054787		
	50	105	0.055851		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	187	0.099468	±2.5	Pass
	-20	141	0.075000		
	-10	152	0.080851		
	0	163	0.086702		
	10	145	0.077128		
	20	176	0.093617		
	30	124	0.065957		
	40	135	0.071809		
	50	100	0.053191		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	189	0.100532	±2.5	Pass
	-20	121	0.064362		
	-10	165	0.087766		
	0	143	0.076064		
	10	176	0.093617		
	20	134	0.071277		
	30	106	0.056383		
	40	113	0.060106		
	50	145	0.077128		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	187	0.099468	±2.5	Pass
	-20	122	0.064894		
	-10	143	0.076064		
	0	135	0.071809		
	10	166	0.088298		
	20	154	0.081915		
	30	105	0.055851		
	40	113	0.060106		
	50	174	0.092553		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	158	0.084043	±2.5	Pass
	-20	123	0.065426		
	-10	125	0.066489		
	0	144	0.076596		
	10	163	0.086702		
	20	106	0.056383		
	30	104	0.055319		
	40	118	0.062766		
	50	163	0.086702		

LTE Band 4(QPSK):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	198	0.114286	±2.5	Pass
	-20	182	0.105051		
	-10	173	0.099856		
	0	165	0.095238		
	10	124	0.071573		
	20	133	0.076768		
	30	102	0.058874		
	40	144	0.083117		
	50	162	0.093506		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	186	0.107359	±2.5	Pass
	-20	121	0.069841		
	-10	135	0.077922		
	0	163	0.094084		
	10	145	0.083694		
	20	174	0.100433		
	30	102	0.058874		
	40	143	0.082540		
	50	134	0.077345		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	109	0.062915	±2.5	Pass
	-20	124	0.071573		
	-10	152	0.087734		
	0	146	0.084271		
	10	171	0.098701		
	20	163	0.094084		
	30	120	0.069264		
	40	184	0.106205		
	50	172	0.099278		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	182	0.105051	±2.5	Pass
	-20	163	0.094084		
	-10	135	0.077922		
	0	136	0.078499		
	10	144	0.083117		
	20	175	0.101010		
	30	163	0.094084		
	40	105	0.060606		
	50	114	0.065801		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	176	0.101587	±2.5	Pass
	-20	154	0.088889		
	-10	165	0.095238		
	0	131	0.075613		
	10	142	0.081962		
	20	103	0.059452		
	30	174	0.100433		
	40	165	0.095238		
	50	103	0.059452		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	195	0.112554	±2.5	Pass
	-20	123	0.070996		
	-10	135	0.077922		
	0	164	0.094661		
	10	142	0.081962		
	20	101	0.058297		
	30	172	0.099278		
	40	183	0.105628		
	50	166	0.095815		

LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	176	0.101587	±2.5	Pass
	-20	154	0.088889		
	-10	165	0.095238		
	0	146	0.084271		
	10	137	0.079076		
	20	135	0.077922		
	30	143	0.082540		
	40	104	0.060029		
	50	105	0.060606		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	159	0.091775	±2.5	Pass
	-20	164	0.094661		
	-10	132	0.076190		
	0	113	0.065224		
	10	144	0.083117		
	20	172	0.099278		
	30	185	0.106782		
	40	133	0.076768		
	50	104	0.060029		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	159	0.091775	±2.5	Pass
	-20	181	0.104473		
	-10	135	0.077922		
	0	163	0.094084		
	10	164	0.094661		
	20	135	0.077922		
	30	143	0.082540		
	40	105	0.060606		
	50	106	0.061183		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	157	0.090620	±2.5	Pass
	-20	144	0.083117		
	-10	175	0.101010		
	0	133	0.076768		
	10	166	0.095815		
	20	104	0.060029		
	30	115	0.066378		
	40	136	0.078499		
	50	125	0.072150		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	168	0.096970	±2.5	Pass
	-20	124	0.071573		
	-10	135	0.077922		
	0	163	0.094084		
	10	144	0.083117		
	20	152	0.087734		
	30	145	0.083694		
	40	153	0.088312		
	50	104	0.060029		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	161	0.092929	±2.5	Pass
	-20	165	0.095238		
	-10	133	0.076768		
	0	136	0.078499		
	10	144	0.083117		
	20	145	0.083694		
	30	171	0.098701		
	40	103	0.059452		
	50	126	0.072727		

LTE Band 7(QPSK):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	195	0.076923	±2.5	Pass
	-20	170	0.067061		
	-10	133	0.052465		
	0	135	0.053254		
	10	144	0.056805		
	20	147	0.057988		
	30	175	0.069034		
	40	106	0.041815		
	50	124	0.048915		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	168	0.066272	±2.5	Pass
	-20	164	0.064694		
	-10	135	0.053254		
	0	133	0.052465		
	10	144	0.056805		
	20	145	0.057199		
	30	173	0.068245		
	40	102	0.040237		
	50	124	0.048915		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	169	0.066667	±2.5	Pass
	-20	164	0.064694		
	-10	135	0.053254		
	0	133	0.052465		
	10	144	0.056805		
	20	142	0.056016		
	30	173	0.068245		
	40	105	0.041420		
	50	124	0.048915		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	166	0.065483	±2.5	Pass
	-20	164	0.064694		
	-10	135	0.053254		
	0	132	0.052071		
	10	141	0.055621		
	20	142	0.056016		
	30	173	0.068245		
	40	105	0.041420		
	50	127	0.050099		

LTE Band 7(16QAM):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	189	0.074556	±2.5	Pass
	-20	164	0.064694		
	-10	135	0.053254		
	0	136	0.053649		
	10	144	0.056805		
	20	142	0.056016		
	30	173	0.068245		
	40	105	0.041420		
	50	127	0.050099		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	166	0.065483	±2.5	Pass
	-20	164	0.064694		
	-10	134	0.052860		
	0	136	0.053649		
	10	142	0.056016		
	20	144	0.056805		
	30	175	0.069034		
	40	106	0.041815		
	50	127	0.050099		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	168	0.066272	2.5	Pass
	-20	164	0.064694		
	-10	135	0.053254		
	0	133	0.052465		
	10	145	0.057199		
	20	144	0.056805		
	30	172	0.067850		
	40	105	0.041420		
	50	123	0.048521		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	169	0.066667	2.5	Pass
	-20	164	0.064694		
	-10	135	0.053254		
	0	137	0.054043		
	10	145	0.057199		
	20	143	0.056410		
	30	174	0.068639		
	40	105	0.041420		
	50	126	0.049704		

6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 24.235, Part 27.54, Part 2.1055(d)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	±2.5ppm
Test setup:	<p>Note : Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> 1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed

Measurement Data (the worst channel):
LTE Band 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	97	0.051596	±2.5	Pass
	3.80	67	0.035638		
	3.14	32	0.017021		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	86	0.045745	±2.5	Pass
	3.80	74	0.039362		
	3.14	95	0.050532		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	69	0.036702	±2.5	Pass
	3.80	84	0.044681		
	3.14	45	0.023936		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	96	0.051064	±2.5	Pass
	3.80	85	0.045213		
	3.14	61	0.032447		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	83	0.044149	±2.5	Pass
	3.80	75	0.039894		
	3.14	92	0.048936		
Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	96	0.051064	±2.5	Pass
	3.80	64	0.034043		
	3.14	75	0.039894		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	81	0.043085	±2.5	Pass
	3.80	72	0.038298		
	3.14	96	0.051064		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	94	0.050000	±2.5	Pass
	3.80	65	0.034574		
	3.14	88	0.046809		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	77	0.040957	±2.5	Pass
	3.80	85	0.045213		
	3.14	93	0.049468		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	94	0.050000	±2.5	Pass
	3.80	65	0.034574		
	3.14	87	0.046277		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.045213	±2.5	Pass
	3.80	75	0.039894		
	3.14	96	0.051064		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	94	0.050000	±2.5	Pass
	3.80	45	0.023936		
	3.14	86	0.045745		

LTE Band 4(QPSK):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	84	0.048485	±2.5	Pass
	3.80	76	0.043867		
	3.14	94	0.054257		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	87	0.050216	±2.5	Pass
	3.80	65	0.037518		
	3.14	93	0.053680		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	75	0.043290	±2.5	Pass
	3.80	86	0.049639		
	3.14	64	0.036941		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	83	0.047908	±2.5	Pass
	3.80	65	0.037518		
	3.14	86	0.049639		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	99	0.057143	±2.5	Pass
	3.80	94	0.054257		
	3.14	85	0.049062		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	97	0.055988	±2.5	Pass
	3.80	85	0.049062		
	3.14	43	0.024820		

LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.049062	±2.5	Pass
	3.80	54	0.031169		
	3.14	44	0.025397		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	79	0.045599	±2.5	Pass
	3.80	80	0.046176		
	3.14	85	0.049062		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	76	0.043867	±2.5	Pass
	3.80	84	0.048485		
	3.14	95	0.054834		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	66	0.038095	±2.5	Pass
	3.80	65	0.037518		
	3.14	97	0.055988		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	96	0.055411	±2.5	Pass
	3.80	44	0.025397		
	3.14	72	0.041558		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	86	0.049639	±2.5	Pass
	3.80	74	0.042713		
	3.14	66	0.038095		

LTE Band 7(QPSK):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	87	0.034320	±2.5	Pass
	3.80	78	0.030769		
	3.14	61	0.024063		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	83	0.032742	±2.5	Pass
	3.80	75	0.029586		
	3.14	64	0.025247		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	86	0.033925	±2.5	Pass
	3.80	77	0.030375		
	3.14	65	0.025641		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	84	0.033136	±2.5	Pass
	3.80	75	0.029586		
	3.14	63	0.024852		

LTE Band 7(16QAM):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.033531	±2.5	Pass
	3.80	76	0.029980		
	3.14	64	0.025247		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	71	0.028008	±2.5	Pass
	3.80	56	0.022091		
	3.14	68	0.026824		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	91	0.035897	±2.5	Pass
	3.80	56	0.022091		
	3.14	78	0.030769		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	61	0.024063	±2.5	Pass
	3.80	46	0.018146		
	3.14	88	0.034714		