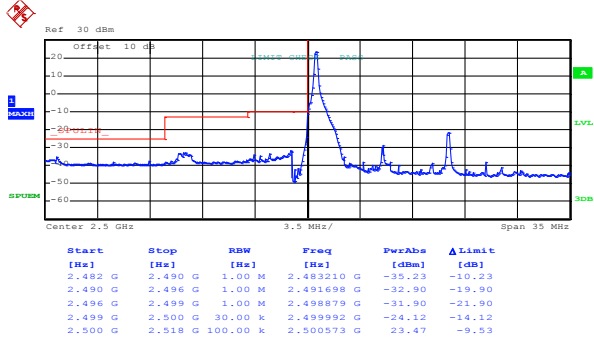


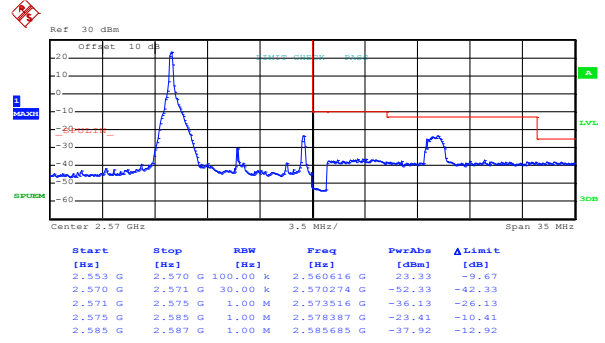
10MHz:

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



Date: 4.DEC.2016 05:37:00

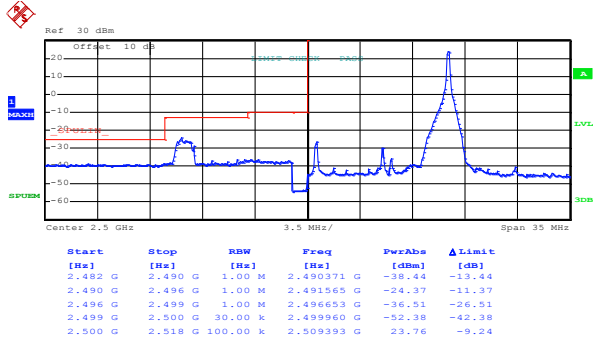
Lowest channel



Date: 4.DEC.2016 05:39:44

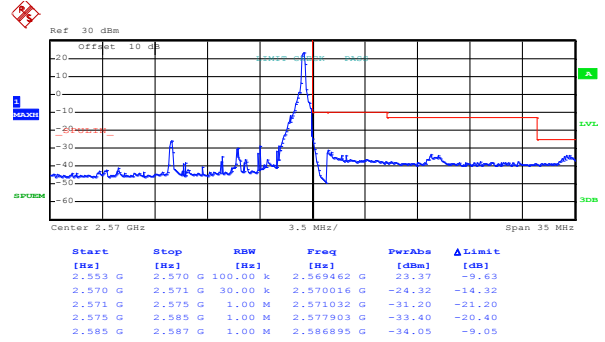
Highest channel

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



Date: 4.DEC.2016 05:37:22

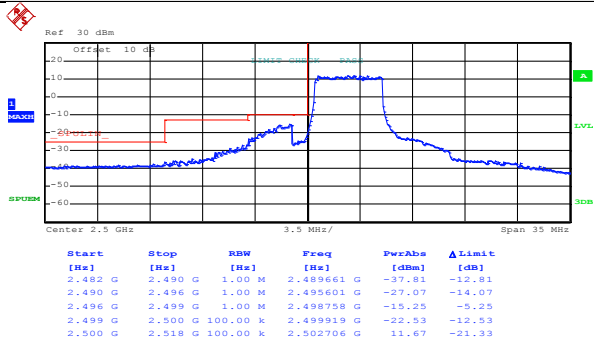
Lowest channel



Date: 4.DEC.2016 05:40:08

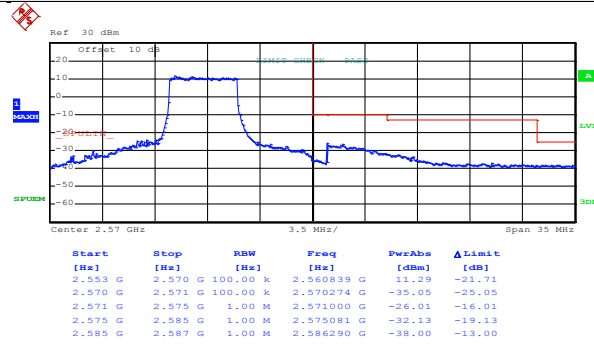
Highest channel

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



Date: 4.DEC.2016 05:38:11

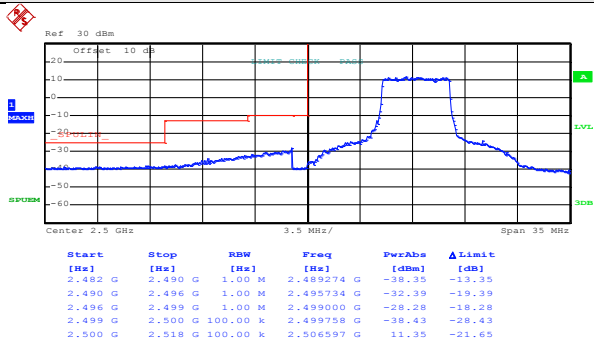
Lowest channel



Date: 4.DEC.2016 05:40:45

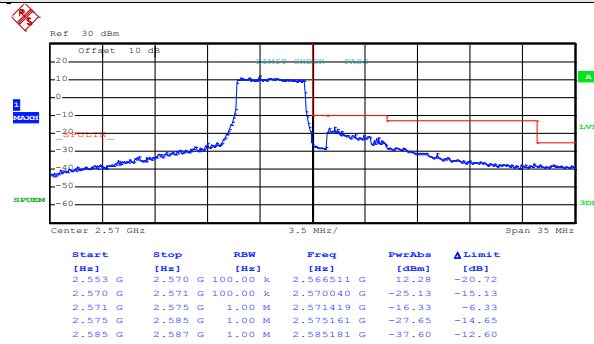
Highest channel

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



Date: 4.DEC.2016 05:38:33

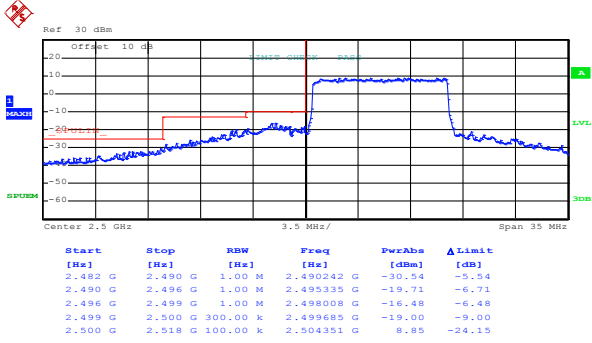
Lowest channel



Date: 4.DEC.2016 05:41:12

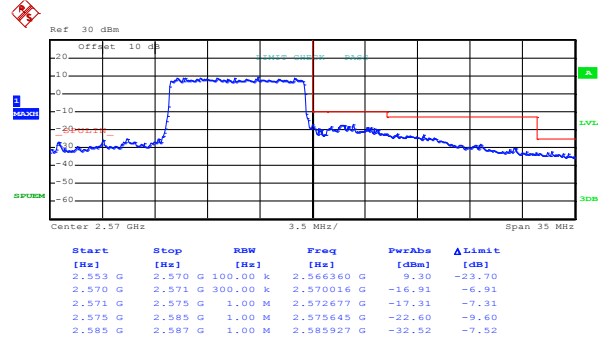
Highest channel

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



Date: 4.DEC.2016 05:39:08

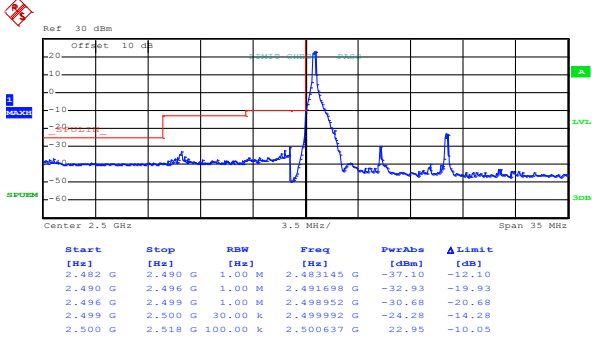
Lowest channel



Date: 4.DEC.2016 05:41:49

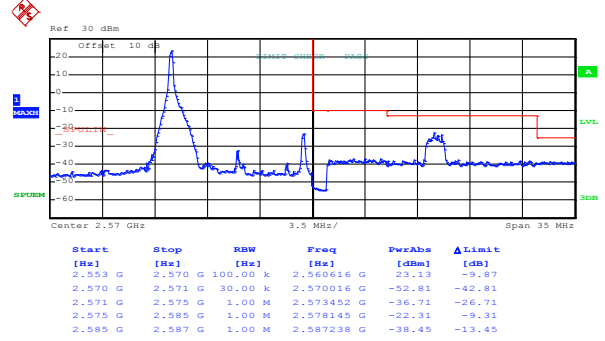
Highest channel

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



Date: 4.DEC.2016 05:37:08

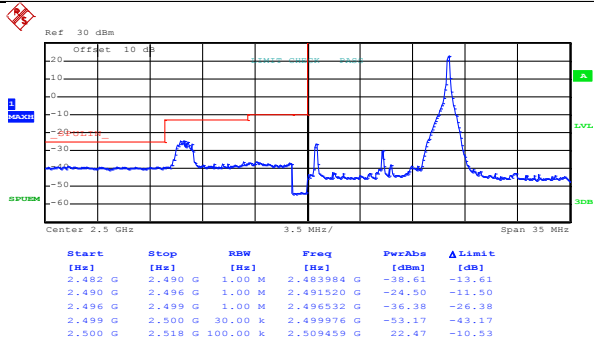
Lowest channel



Date: 4.DEC.2016 05:39:53

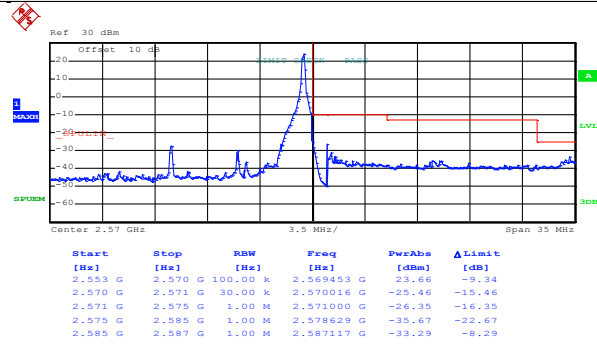
Highest channel

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



Date: 4.DEC.2016 05:37:35

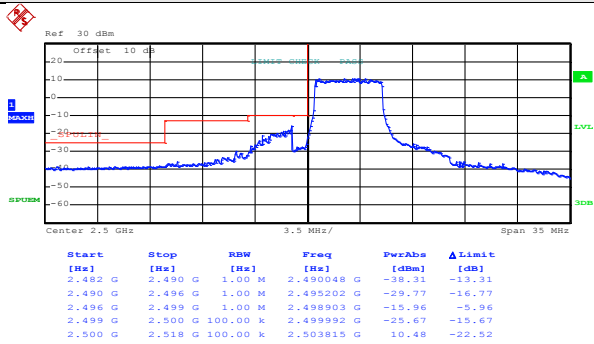
Lowest channel



Date: 4.DEC.2016 05:40:19

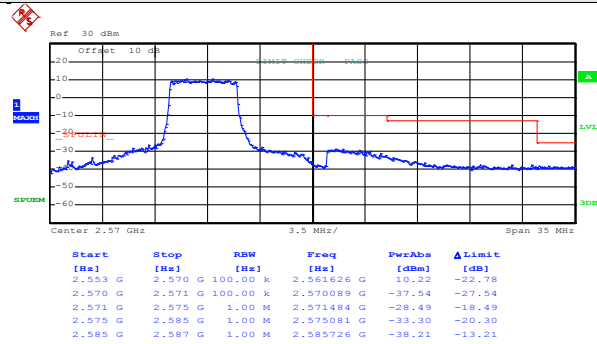
Highest channel

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



Date: 4.DEC.2016 05:38:20

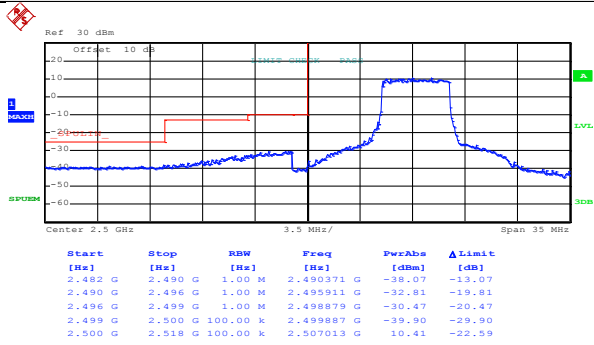
Lowest channel



Date: 4.DEC.2016 05:40:56

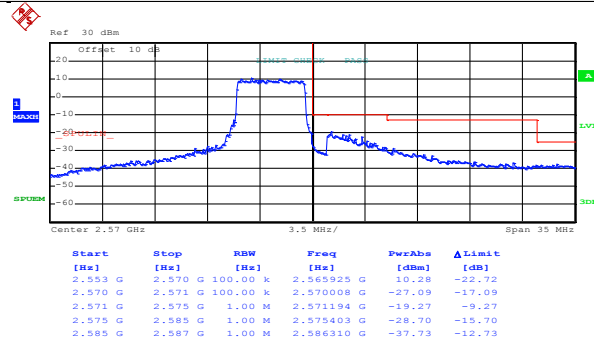
Highest channel

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



Date: 4.DEC.2016 05:38:43

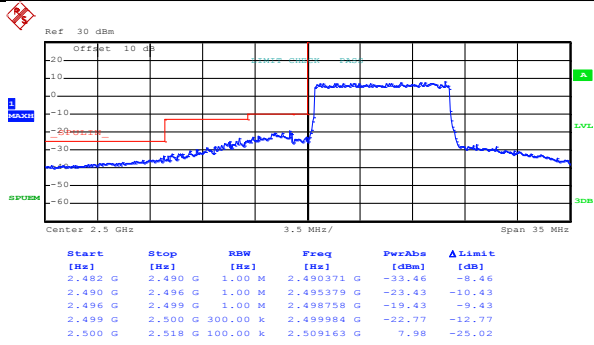
Lowest channel



Date: 4.DEC.2016 05:41:23

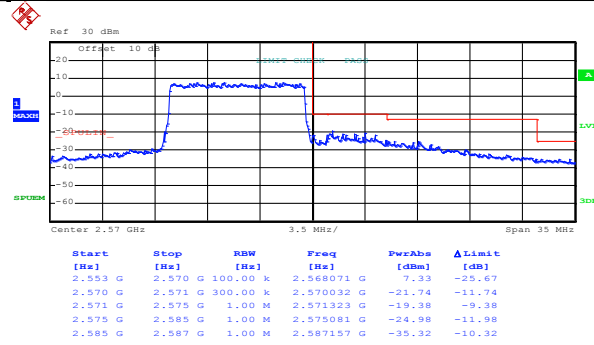
Highest channel

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



Date: 4.DEC.2016 05:39:15

Lowest channel

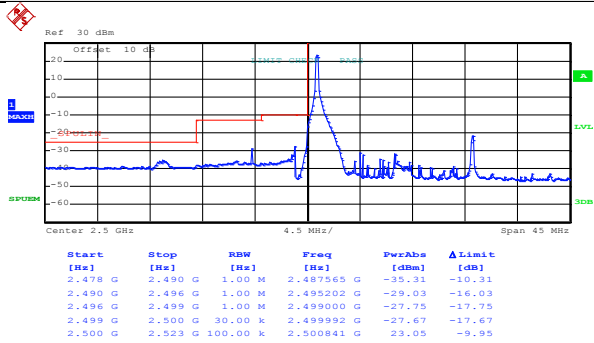


Date: 4.DEC.2016 05:41:58

Highest channel

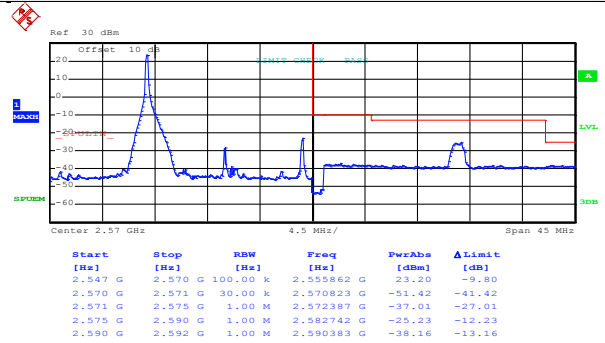
15MHz:

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



Date: 4.DEC.2016 05:43:21

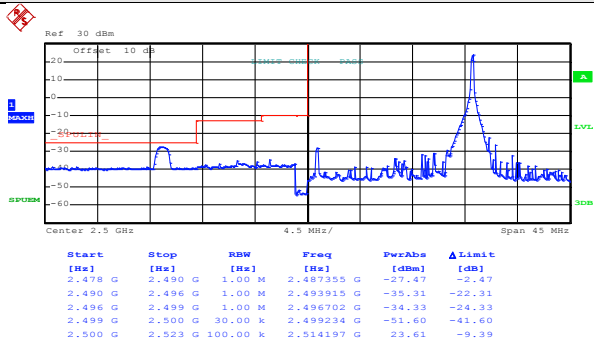
Lowest channel



Date: 4.DEC.2016 05:46:38

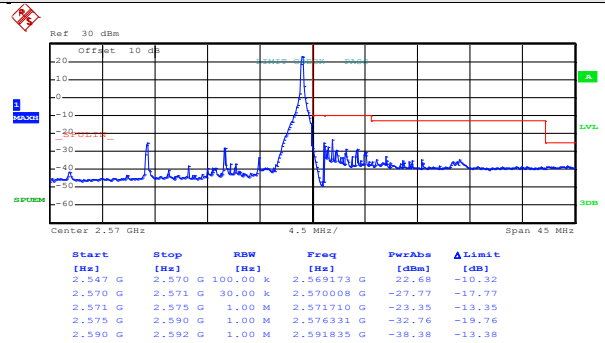
Highest channel

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



Date: 4.DEC.2016 05:43:47

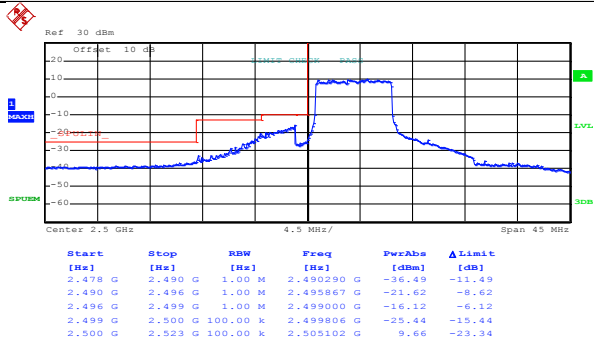
Lowest channel



Date: 4.DEC.2016 05:47:10

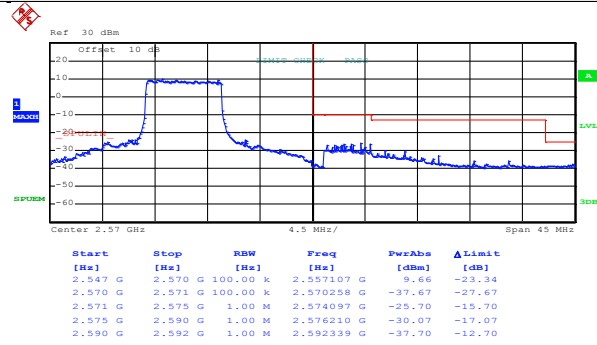
Highest channel

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



Date: 4.DEC.2016 05:44:37

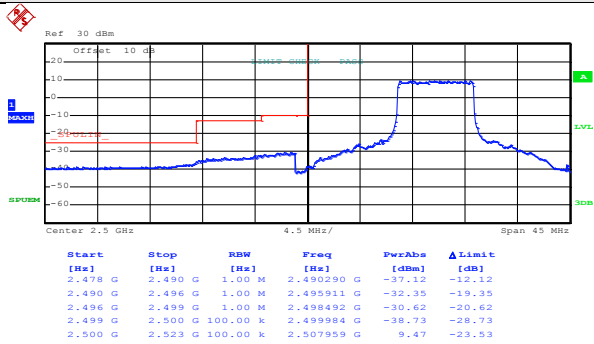
Lowest channel



Date: 4.DEC.2016 05:47:52

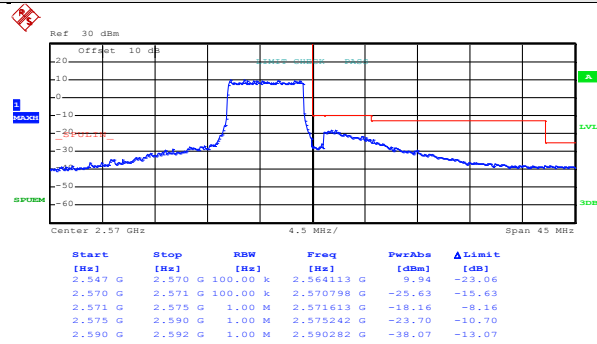
Highest channel

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



Date: 4.DEC.2016 05:45:11

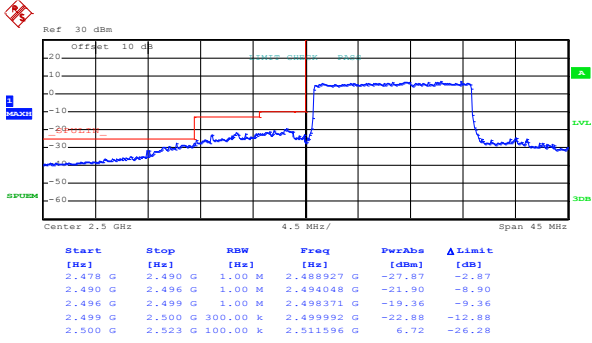
Lowest channel



Date: 4.DEC.2016 05:48:20

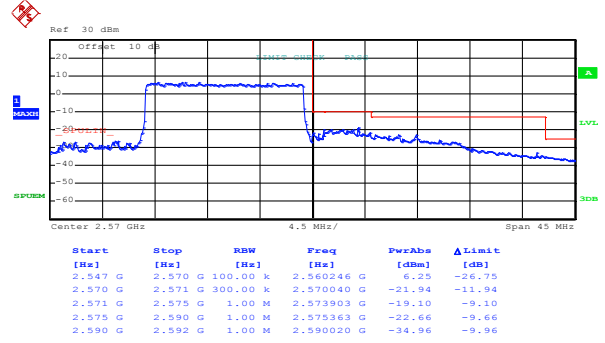
Highest channel

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



Date: 4.DEC.2016 05:45:51

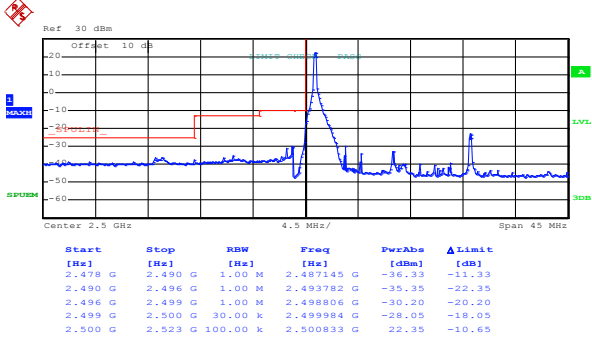
Lowest channel



Date: 4.DEC.2016 05:48:57

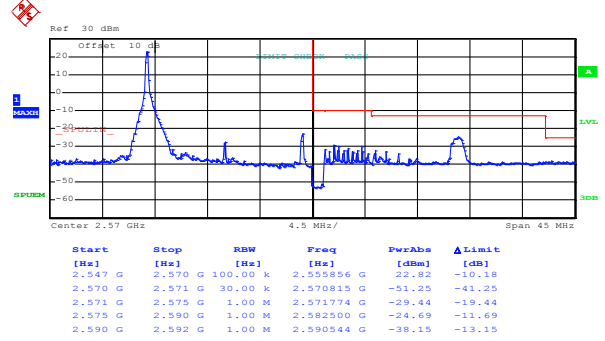
Highest channel

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



Date: 4.DEC.2016 05:43:32

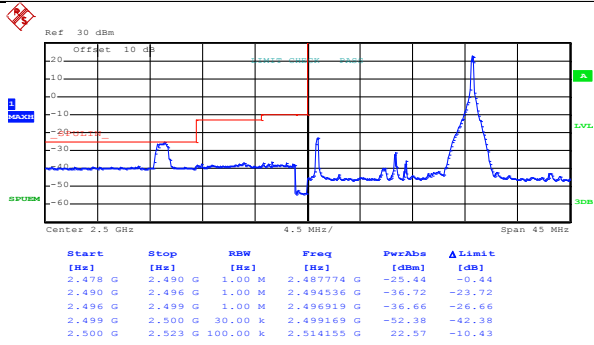
Lowest channel



Date: 4.DEC.2016 05:46:51

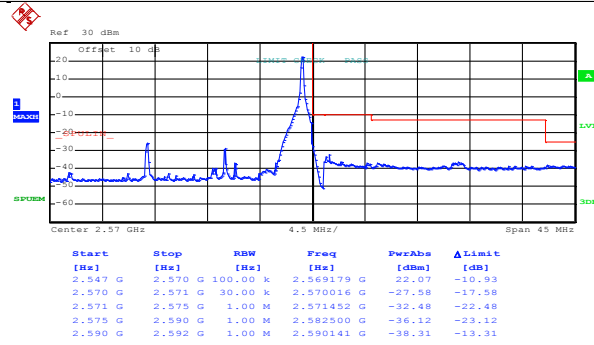
Highest channel

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



Date: 4.DEC.2016 05:44:01

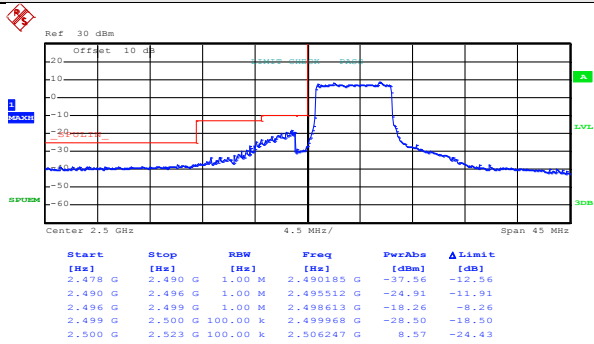
Lowest channel



Date: 4.DEC.2016 05:47:23

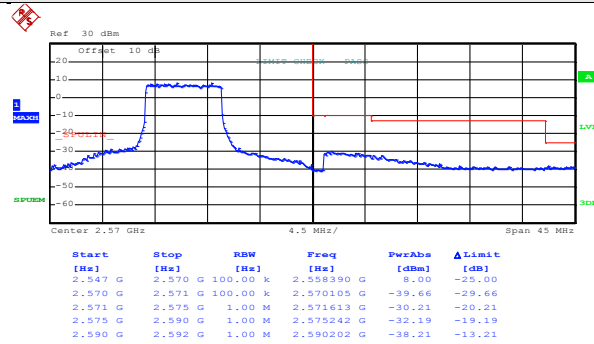
Highest channel

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



Date: 4.DEC.2016 05:44:47

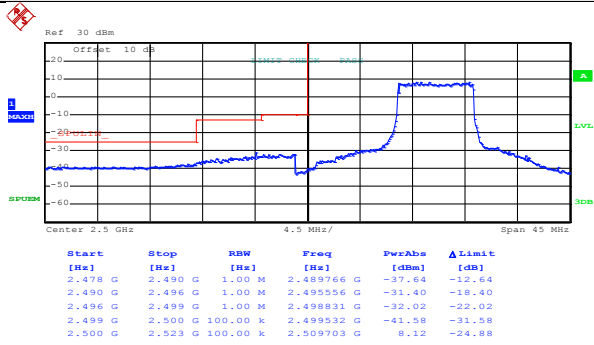
Lowest channel



Date: 4.DEC.2016 05:48:03

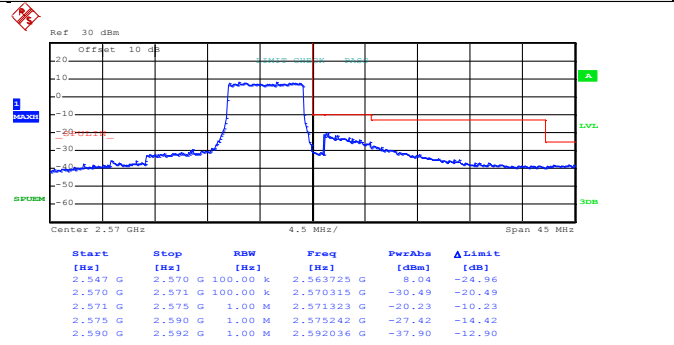
Highest channel

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



Date: 4.DEC.2016 05:45:24

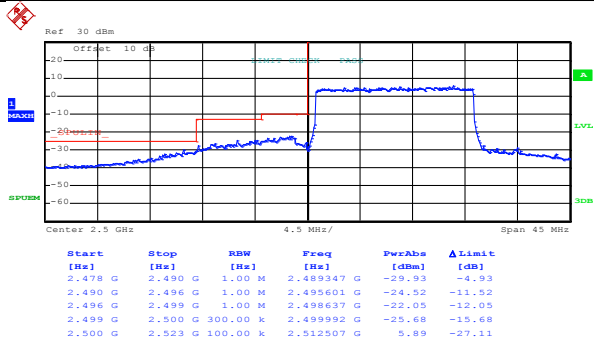
Lowest channel



Date: 4.DEC.2016 05:48:32

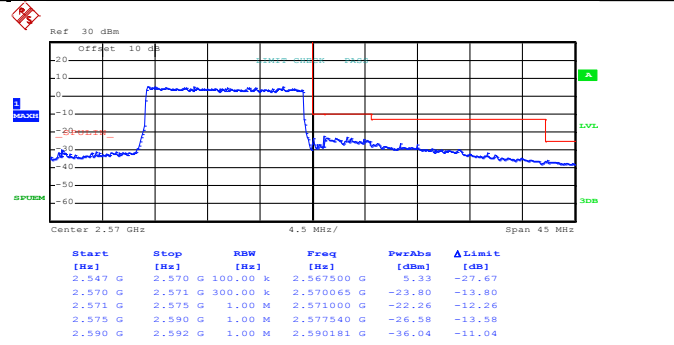
Highest channel

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



Date: 4.DEC.2016 05:46:03

Lowest channel

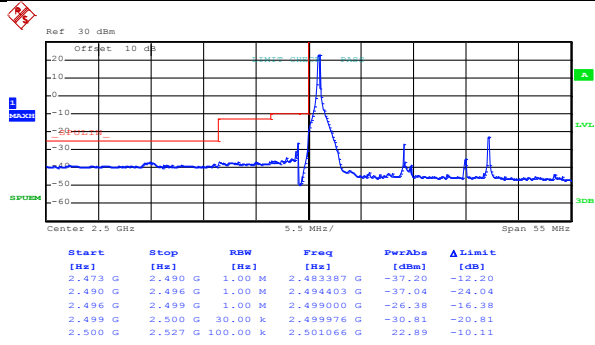


Date: 4.DEC.2016 05:49:08

Highest channel

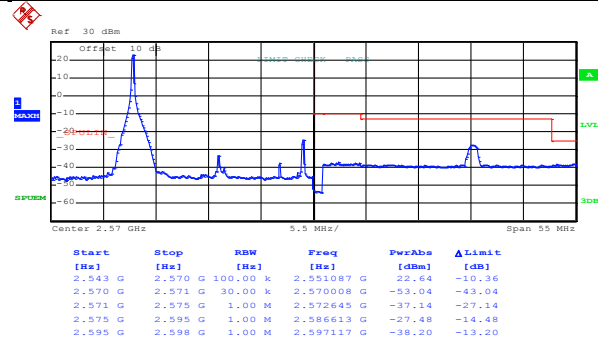
20MHz:

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



Date: 4.DEC.2016 05:51:53

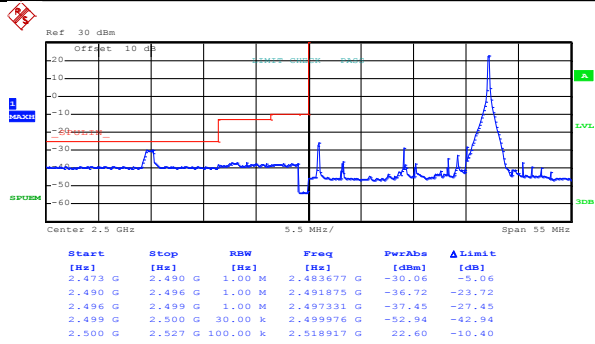
Lowest channel



Date: 4.DEC.2016 05:55:09

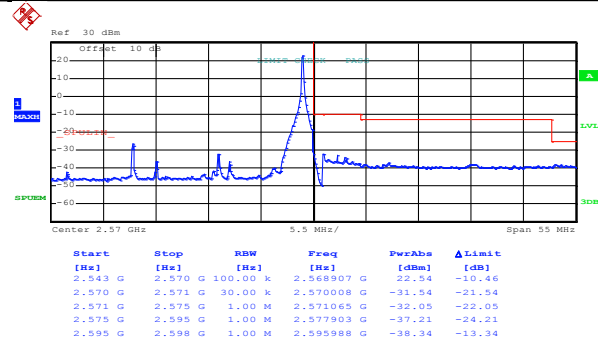
Highest channel

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



Date: 4.DEC.2016 05:52:17

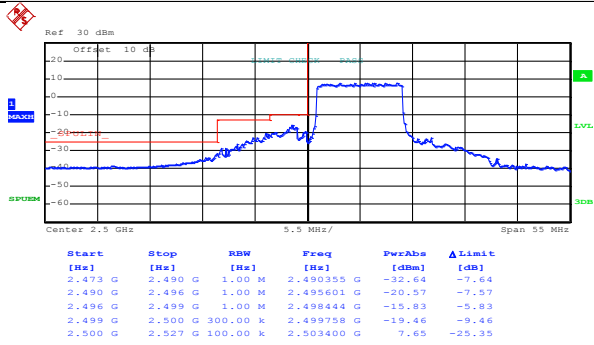
Lowest channel



Date: 4.DEC.2016 05:55:37

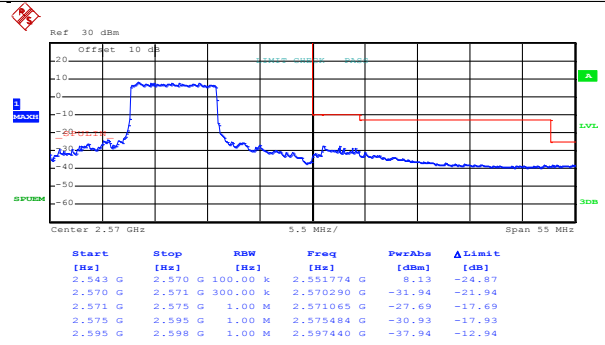
Highest channel

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



Date: 4.DEC.2016 05:53:07

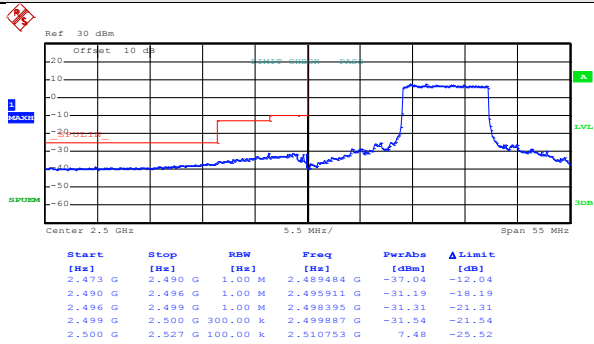
Lowest channel



Date: 4.DEC.2016 05:56:19

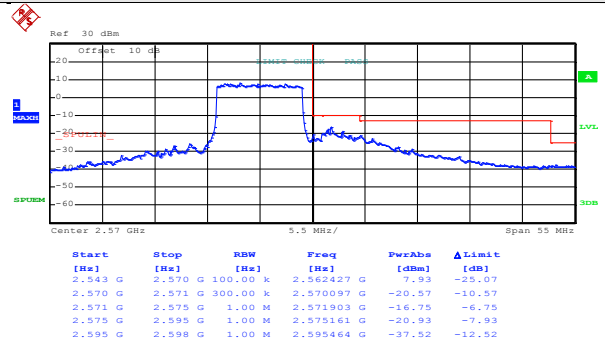
Highest channel

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



Date: 4.DEC.2016 05:53:51

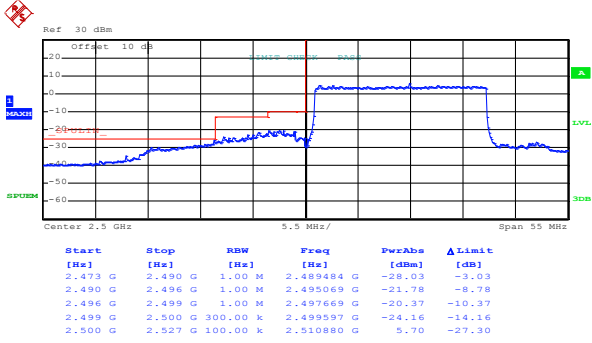
Lowest channel



Date: 4.DEC.2016 06:00:07

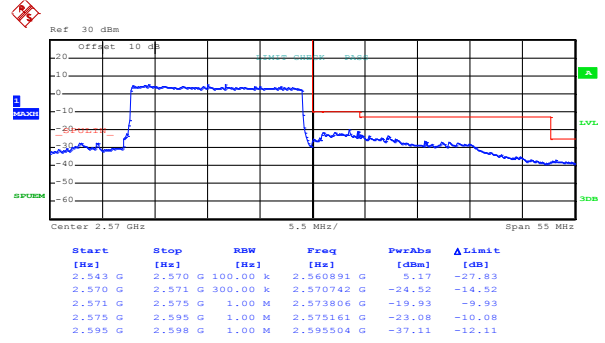
Highest channel

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



Date: 4.DEC.2016 05:54:21

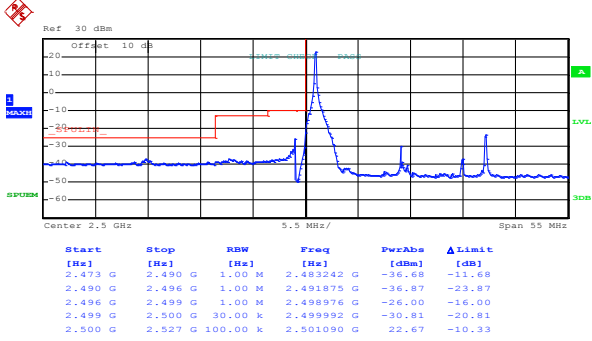
Lowest channel



Date: 4.DEC.2016 05:56:47

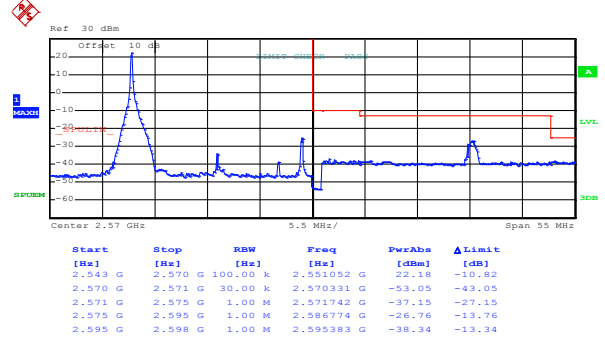
Highest channel

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



Date: 4.DEC.2016 05:52:03

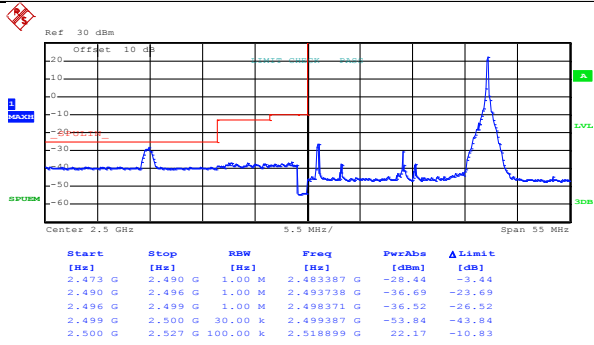
Lowest channel



Date: 4.DEC.2016 05:55:22

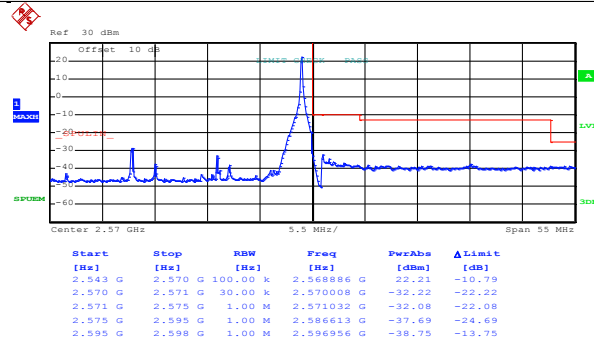
Highest channel

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



Date: 4.DEC.2016 05:52:36

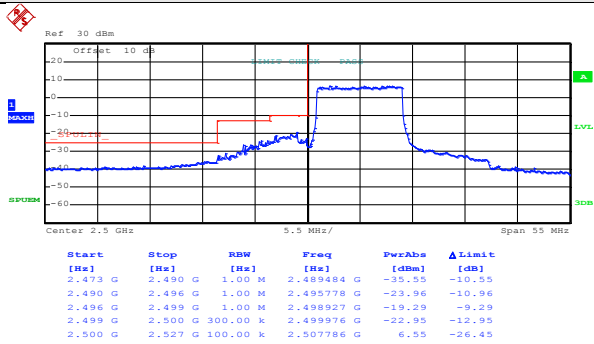
Lowest channel



Date: 4.DEC.2016 05:55:49

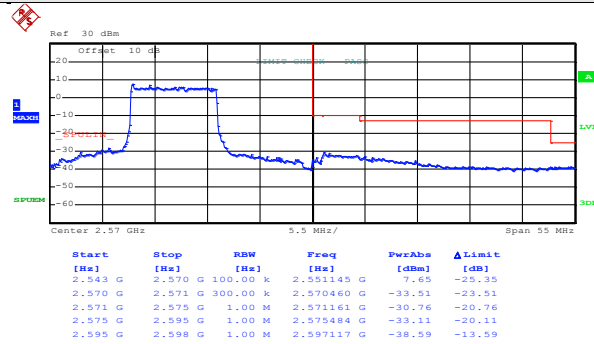
Highest channel

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



Date: 4.DEC.2016 05:53:23

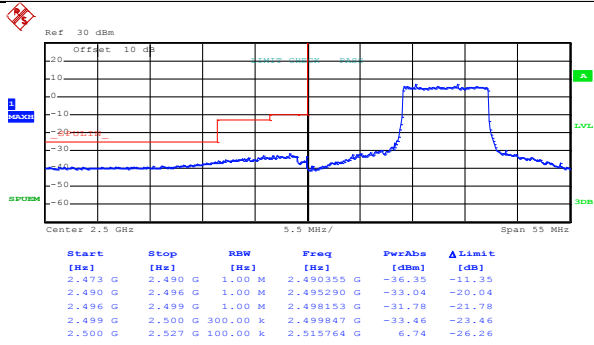
Lowest channel



Date: 4.DEC.2016 05:56:32

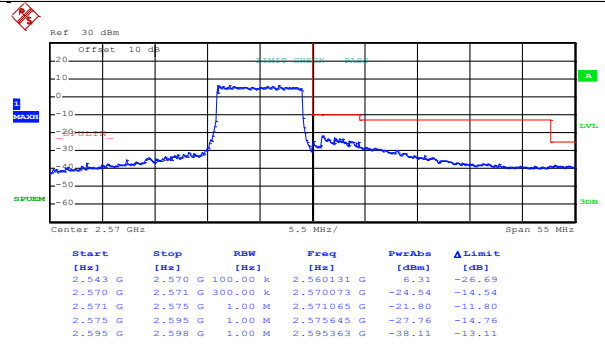
Highest channel

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



Date: 4.DEC.2016 05:54:04

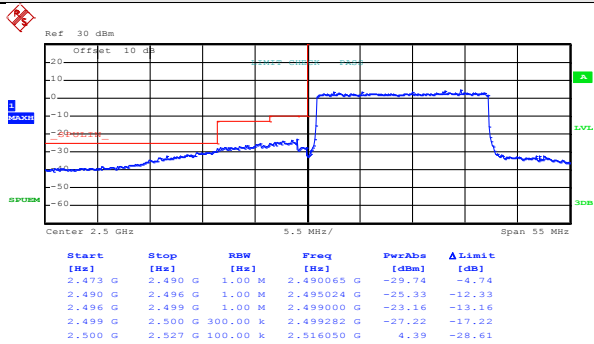
Lowest channel



Date: 4.DEC.2016 06:00:19

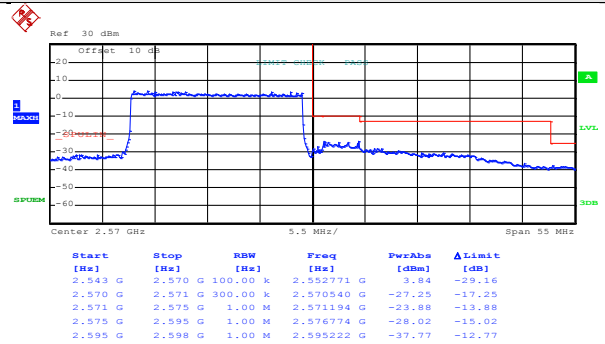
Highest channel

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



Date: 4.DEC.2016 05:54:33

Lowest channel



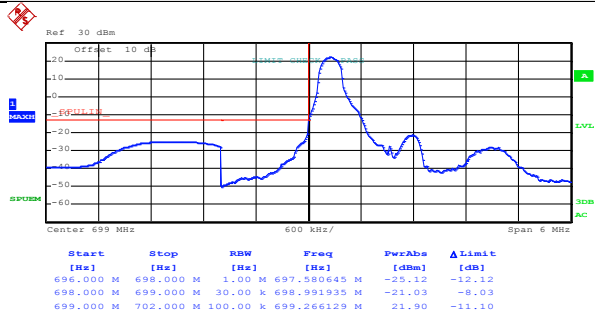
Date: 4.DEC.2016 05:56:57

Highest channel

LTE band 12 part:

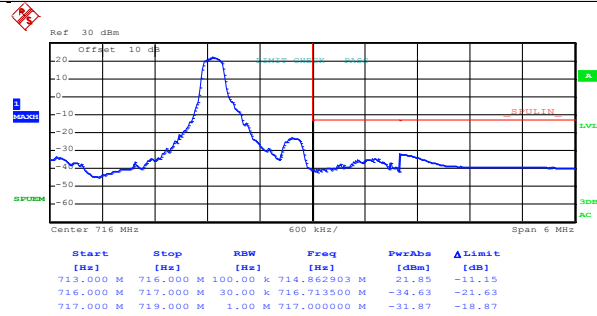
1.4MHz:

Test Mode: LTE band 12 (QPSK RB Size 1 & RB Offset 0)



Date: 5.DEC.2016 18:03:55

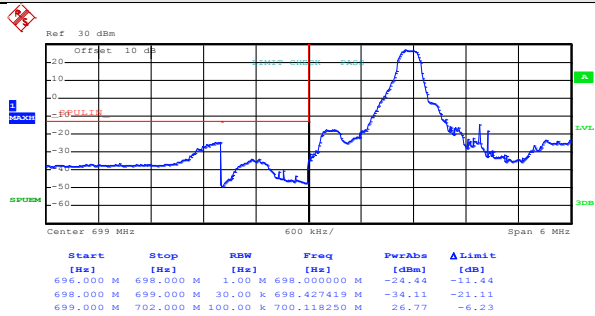
Lowest channel



Date: 5.DEC.2016 18:06:03

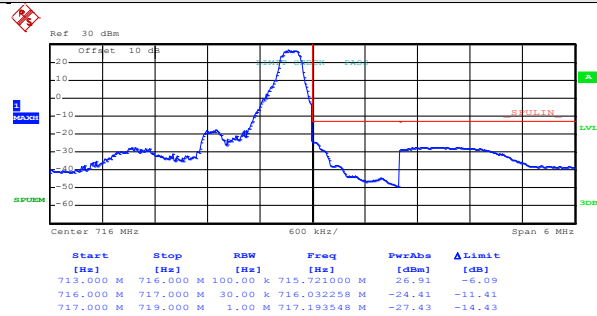
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 1 & RB Offset 5)



Date: 4.DEC.2016 04:44:42

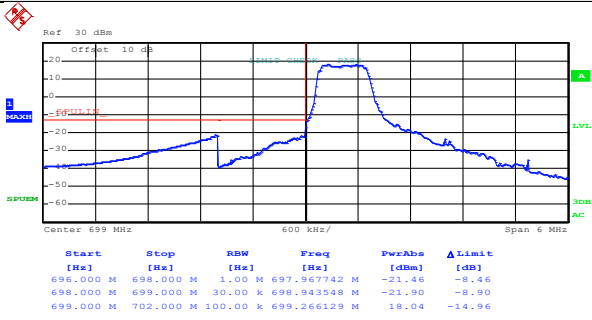
Lowest channel



Date: 4.DEC.2016 04:46:01

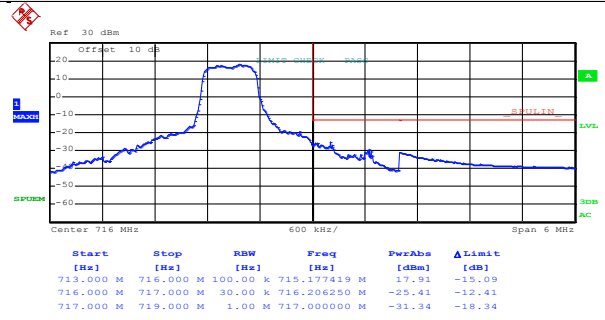
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 3 & RB Offset 0)



Date: 5.DEC.2016 18:04:19

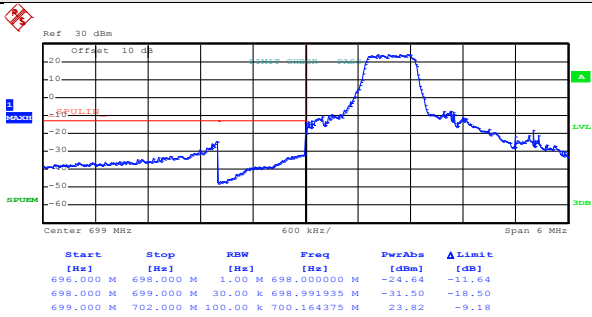
Lowest channel



Date: 5.DEC.2016 18:06:31

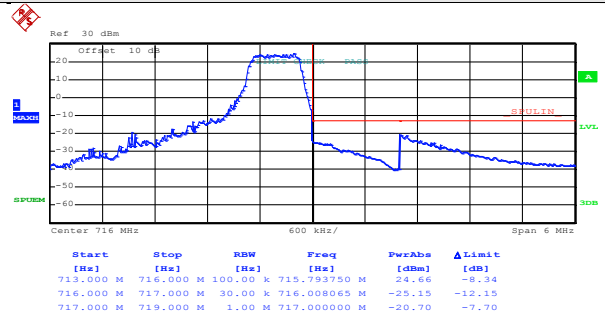
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 3 & RB Offset 2)



Date: 4.DEC.2016 04:45:14

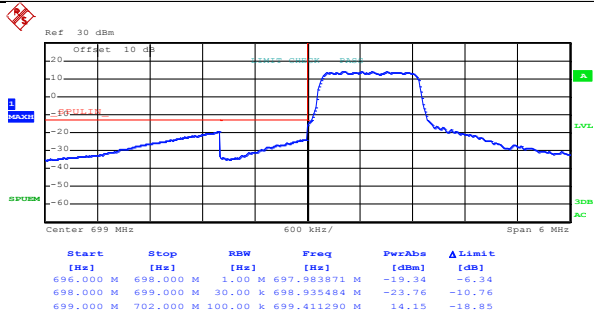
Lowest channel



Date: 4.DEC.2016 04:46:30

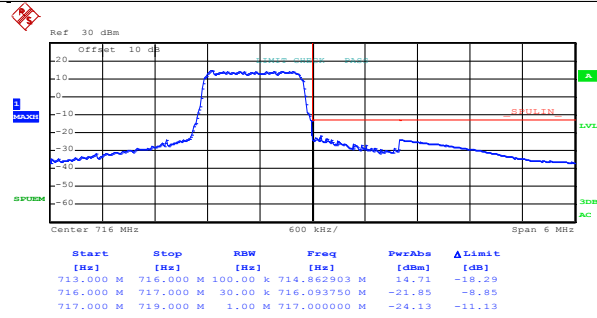
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 6 & RB Offset 0)



Date: 5.DEC.2016 18:04:42

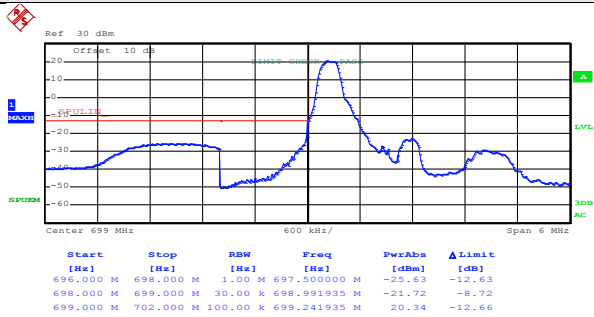
Lowest channel



Date: 5.DEC.2016 18:06:57

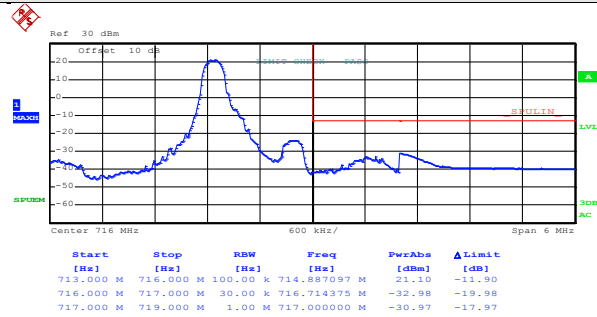
Highest channel

Test Mode: LTE band 12 (16QAM RB Size 1 & RB Offset 0)



Date: 5.DEC.2016 18:04:04

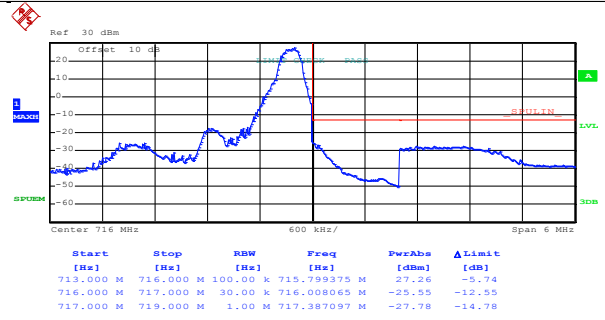
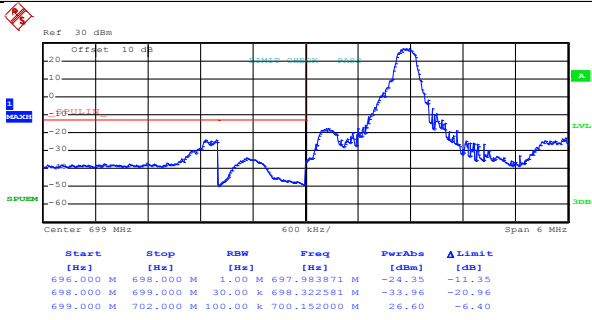
Lowest channel



Date: 5.DEC.2016 18:06:16

Highest channel

Test Mode: LTE band 12 (16QAM RB Size 1 &RB Offset 5)



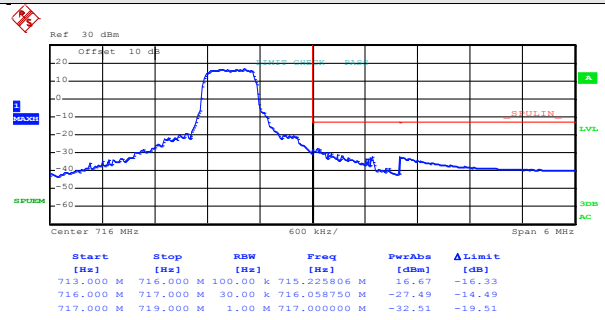
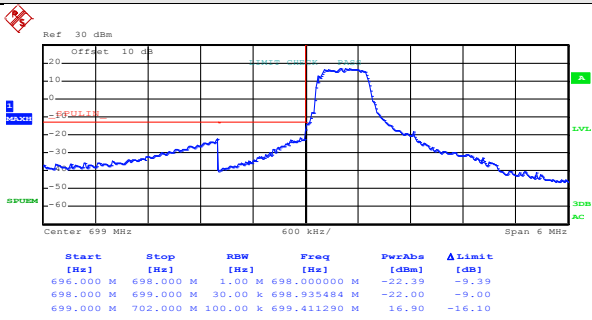
Date: 4.DEC.2016 04:44:53

Date: 4.DEC.2016 04:46:13

Lowest channel

Highest channel

Test Mode: LTE band 12 (16QAM RB Size 3 &RB Offset 0)



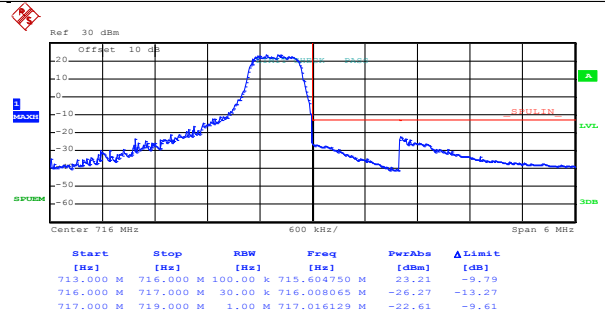
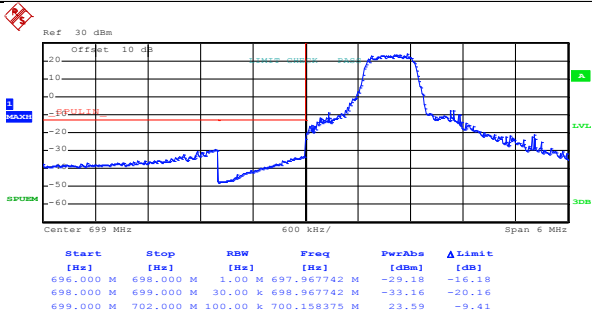
Date: 5.DEC.2016 18:04:28

Date: 5.DEC.2016 18:06:40

Lowest channel

Highest channel

Test Mode: LTE band 12 (16QAM RB Size 3 &RB Offset 2)



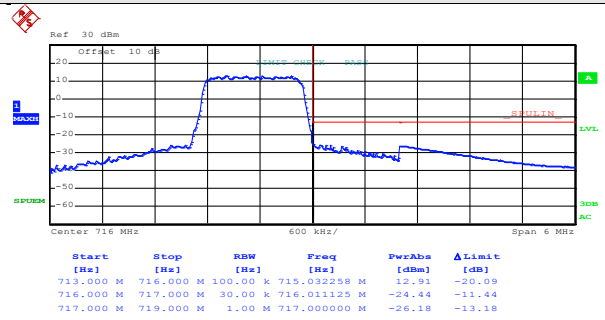
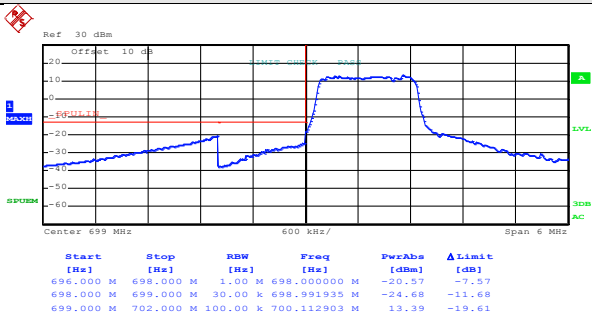
Date: 4.DEC.2016 04:45:26

Date: 4.DEC.2016 04:46:42

Lowest channel

Highest channel

Test Mode: LTE band 12 (16QAM RB Size 6 &RB Offset 0)



Date: 5.DEC.2016 18:04:50

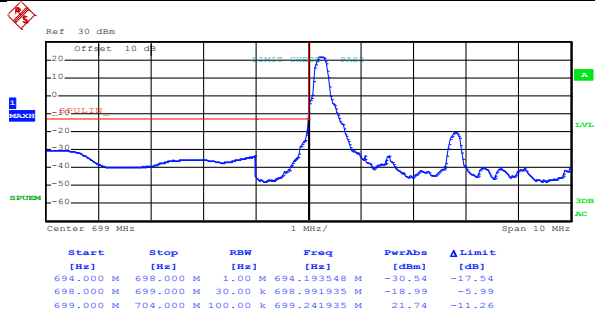
Date: 5.DEC.2016 18:07:05

Lowest channel

Highest channel

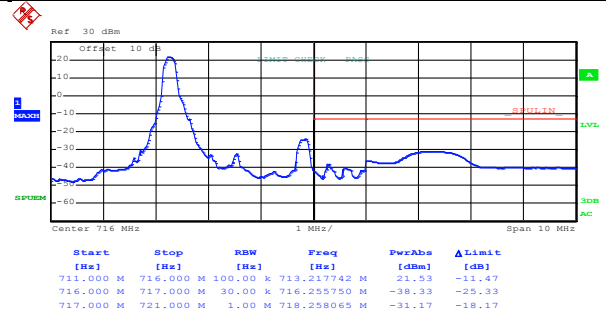
3MHz:

Test Mode: LTE band 12 (QPSK RB Size 1 &RB Offset 0)



Date: 5.DEC.2016 18:08:18

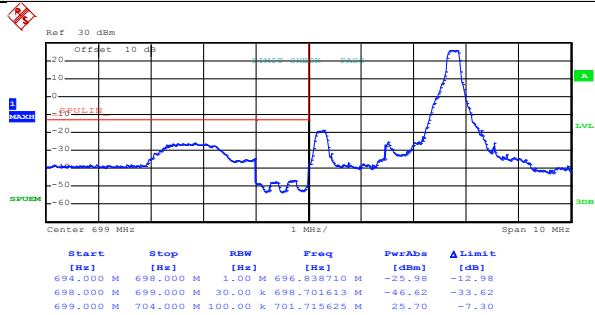
Lowest channel



Date: 5.DEC.2016 18:11:03

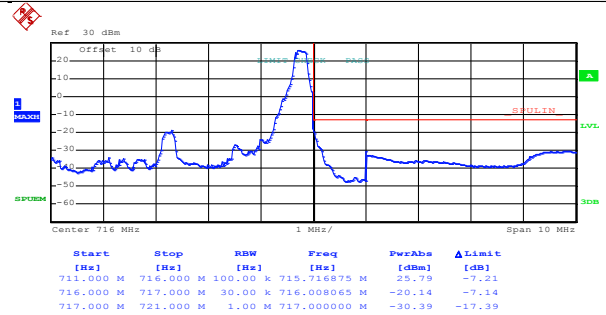
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 1 &RB Offset 14)



Date: 4.DEC.2016 04:47:41

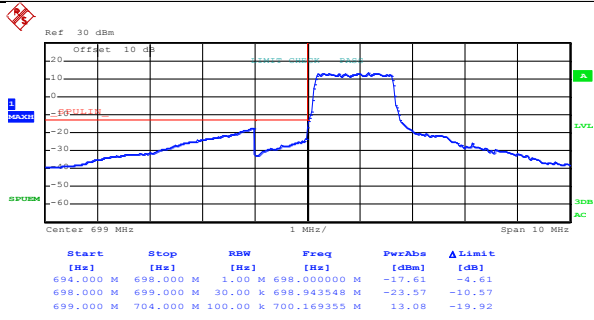
Lowest channel



Date: 4.DEC.2016 04:49:25

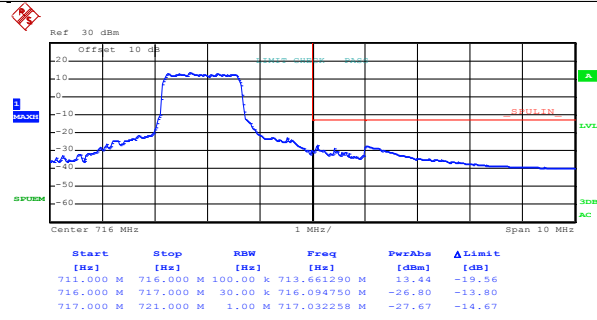
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 8 & RB Offset 0)



Date: 5.DEC.2016 18:09:47

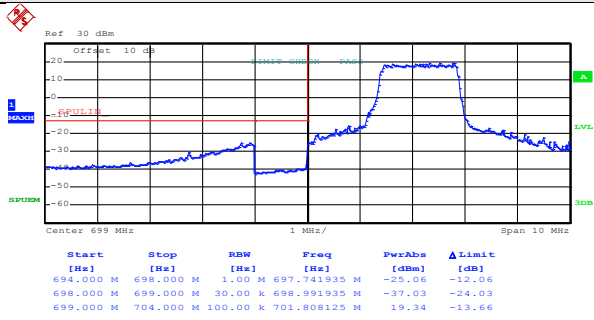
Lowest channel



Date: 5.DEC.2016 18:11:28

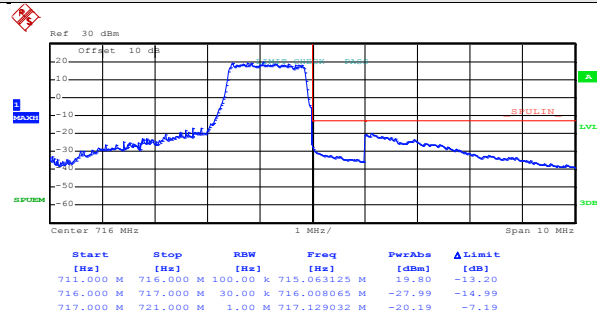
Highest channel

Test Mode: LTE band 12 (QPSK RB Size 8 & RB Offset 7)



Date: 4.DEC.2016 04:48:24

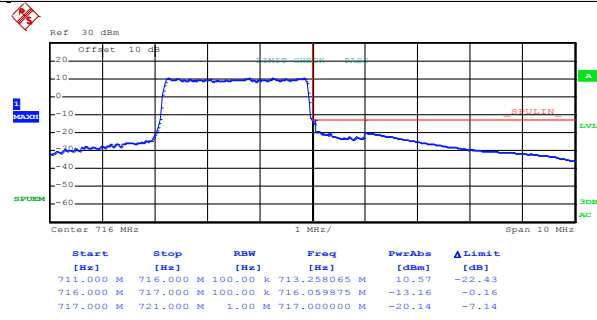
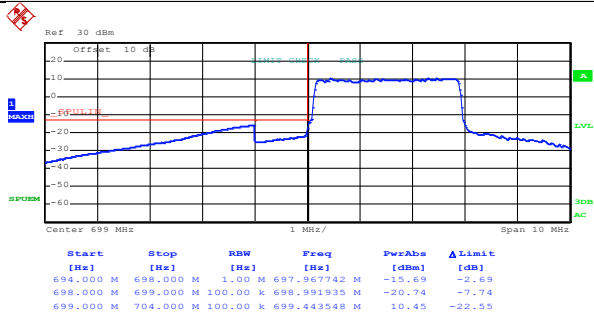
Lowest channel



Date: 4.DEC.2016 04:49:54

Highest channel

Test Mode: LTE band 12 (QPSK RB Size 15 &RB Offset 0)



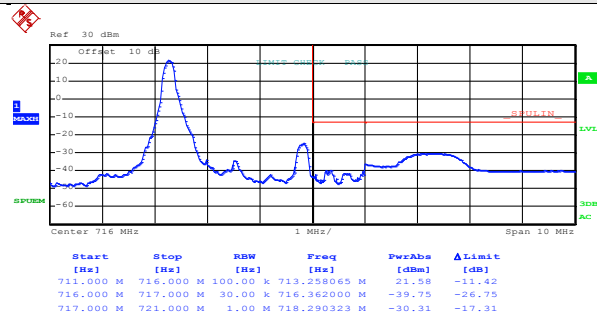
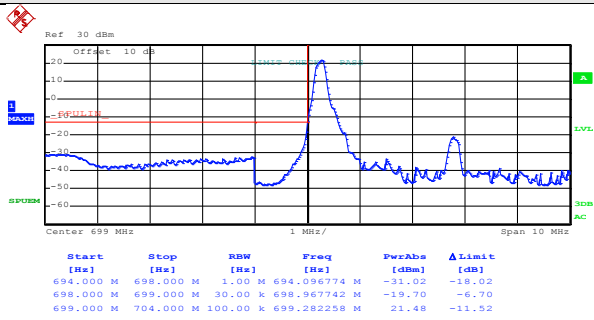
Date: 5.DEC.2016 18:10:21

Date: 5.DEC.2016 18:12:02

Lowest channel

Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 0)



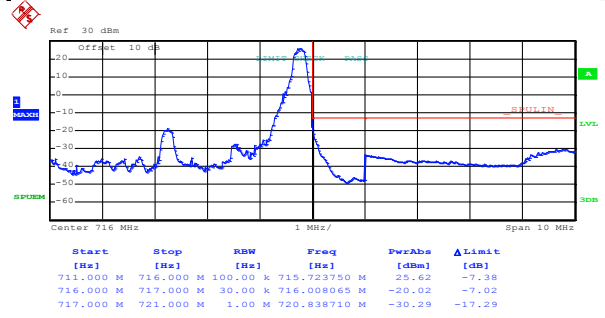
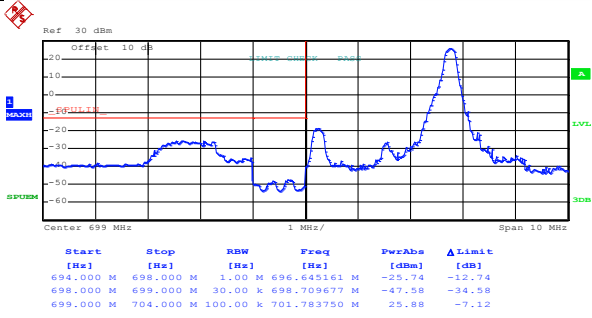
Date: 5.DEC.2016 18:08:27

Date: 5.DEC.2016 18:11:12

Lowest channel

Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 14)



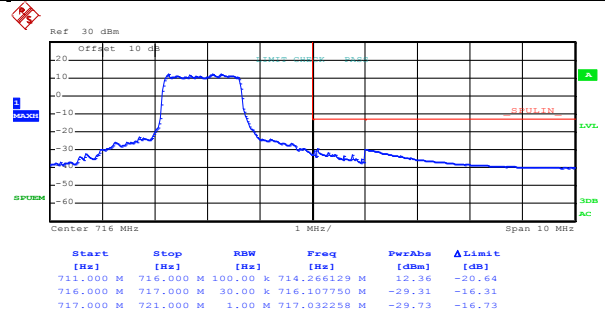
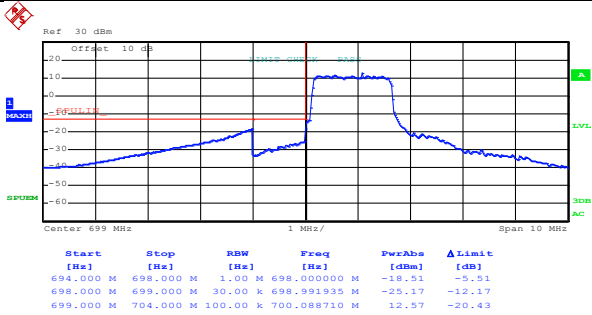
Date: 4.DEC.2016 04:48:07

Date: 4.DEC.2016 04:49:36

Lowest channel

Highest channel

Test Mode: LTE band 12(16QAM RB Size 8 &RB Offset 0)



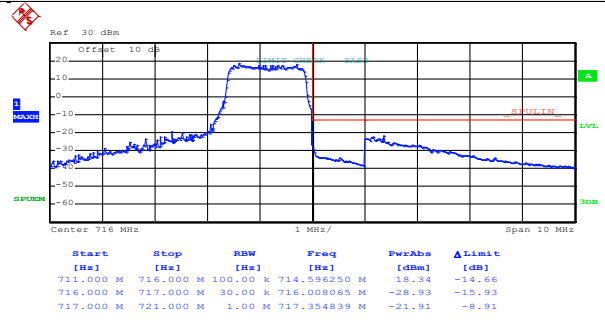
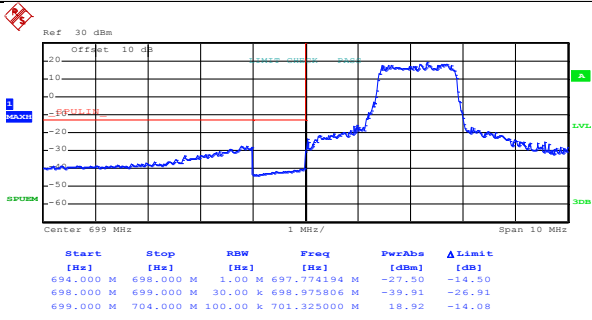
Date: 5.DEC.2016 18:09:56

Date: 5.DEC.2016 18:11:39

Lowest channel

Highest channel

Test Mode: LTE band 12(16QAM RB Size 8 &RB Offset 7)



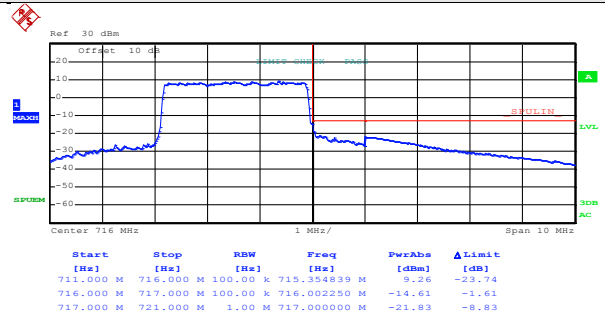
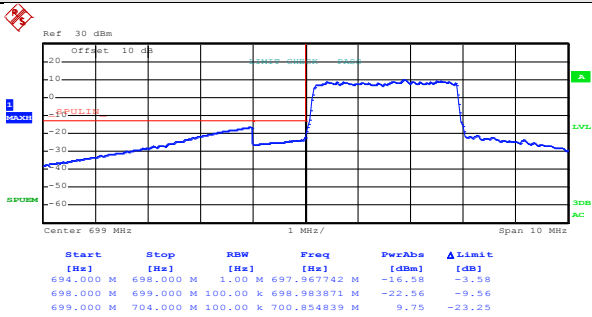
Date: 4.DEC.2016 04:48:36

Date: 4.DEC.2016 04:50:05

Lowest channel

Highest channel

Test Mode: LTE band 12(16QAM RB Size 15 &RB Offset 0)



Date: 5.DEC.2016 18:10:29

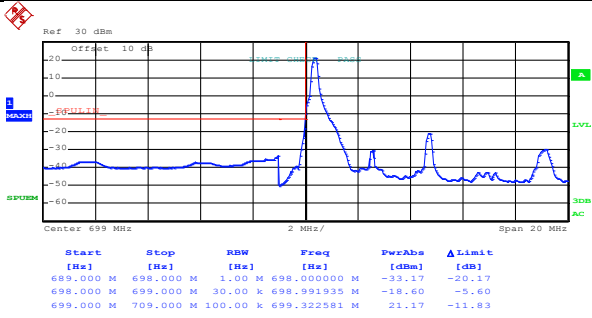
Date: 5.DEC.2016 18:12:09

Lowest channel

Highest channel

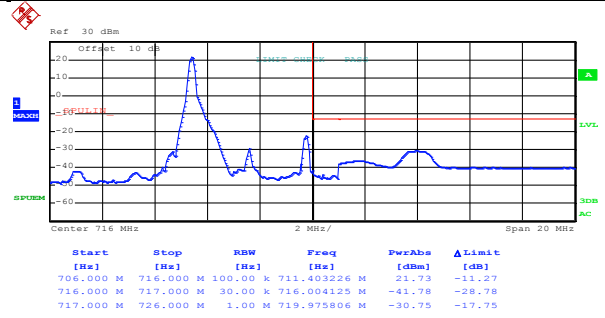
5MHz:

Test Mode: LTE band 12(QPSK RB Size 1 &RB Offset 0)



Date: 5.DEC.2016 18:13:20

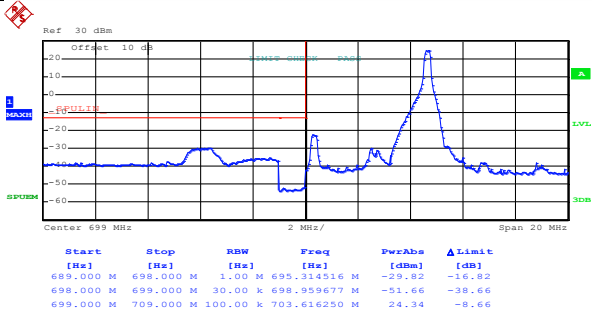
Lowest channel



Date: 5.DEC.2016 18:15:11

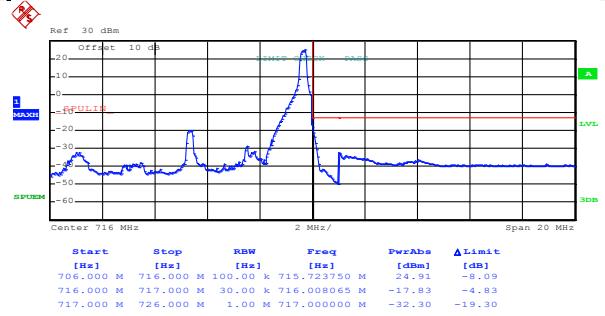
Highest channel

Test Mode: LTE band 12(QPSK RB Size 1 &RB Offset 24)



Date: 4.DEC.2016 04:51:02

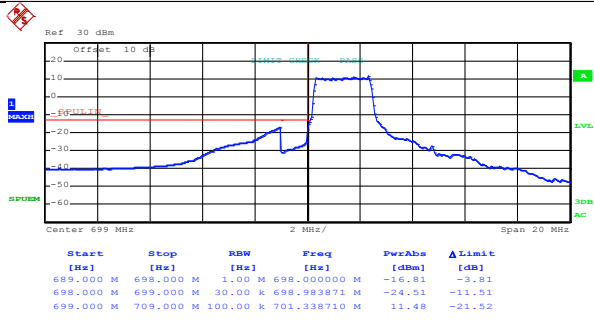
Lowest channel



Date: 4.DEC.2016 04:52:24

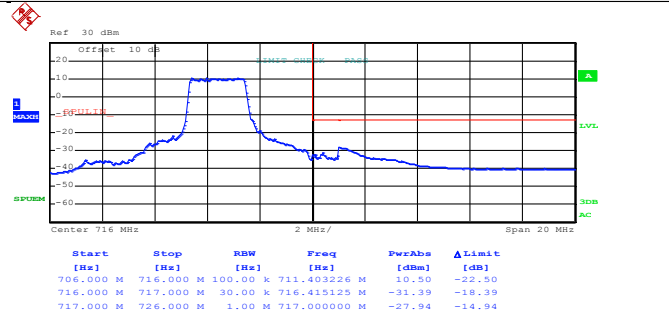
Highest channel

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



Date: 5.DEC.2016 18:13:54

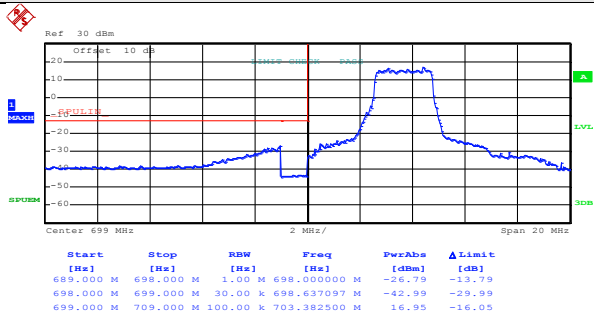
Lowest channel



Date: 5.DEC.2016 18:15:39

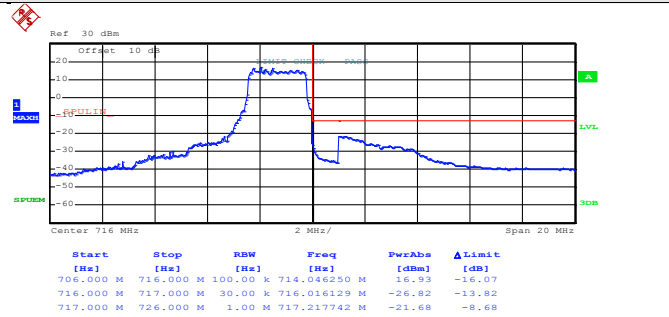
Highest channel

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



Date: 4.DEC.2016 04:51:34

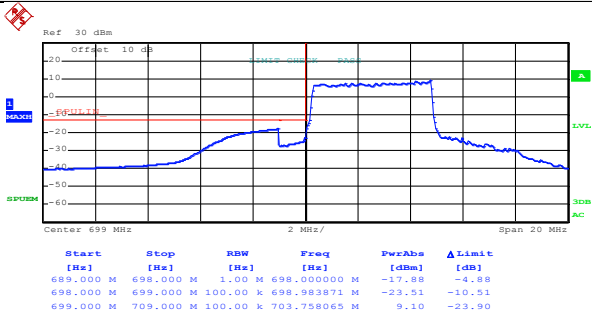
Lowest channel



Date: 4.DEC.2016 04:52:56

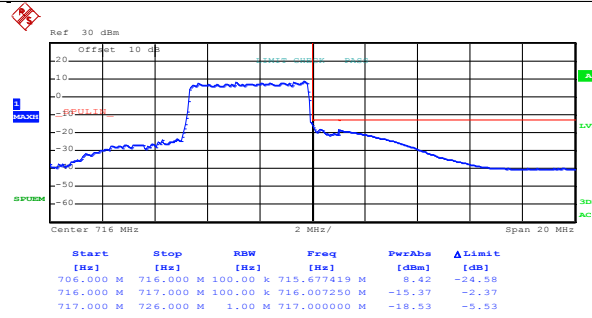
Highest channel

Test Mode: LTE band 12(QPSK RB Size 25 &RB Offset 0)



Date: 5.DEC.2016 18:14:29

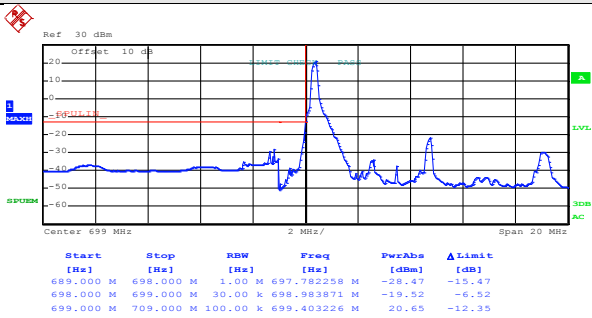
Lowest channel



Date: 5.DEC.2016 18:16:07

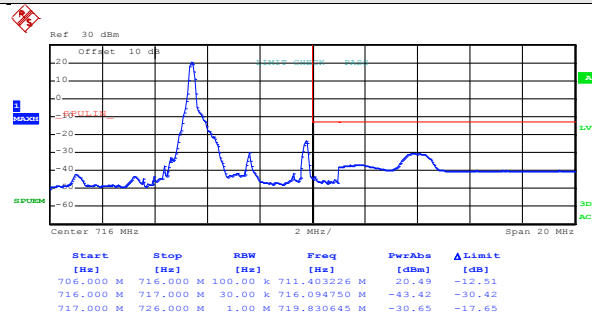
Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 0)



Date: 5.DEC.2016 18:13:29

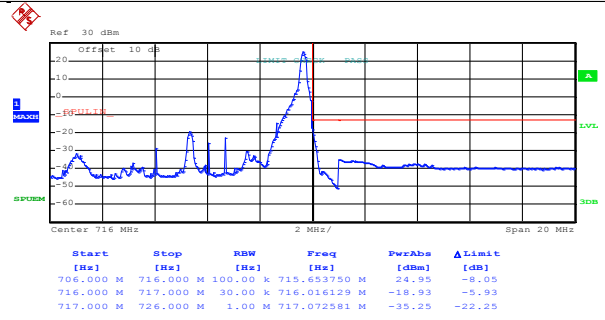
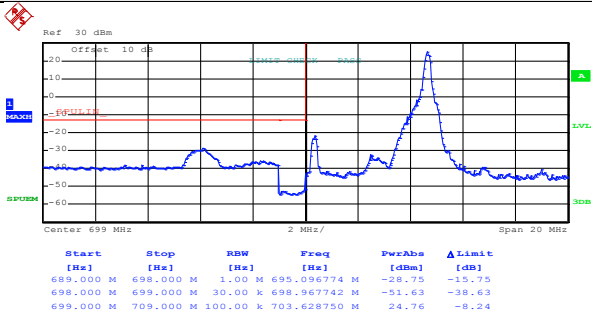
Lowest channel



Date: 5.DEC.2016 18:15:20

Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 24)



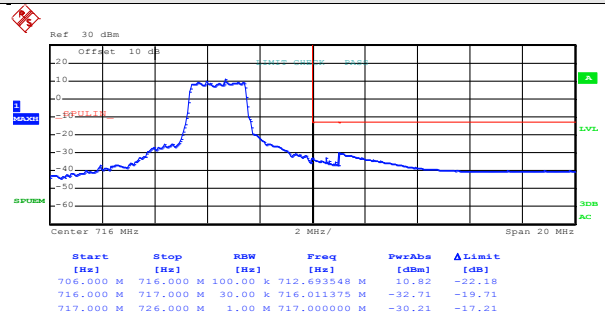
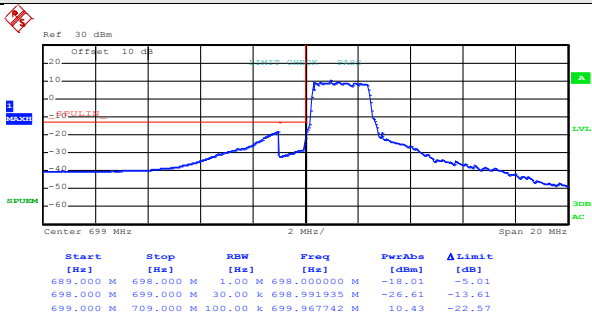
Date: 4.DEC.2016 04:51:12

Date: 4.DEC.2016 04:52:35

Lowest channel

Highest channel

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



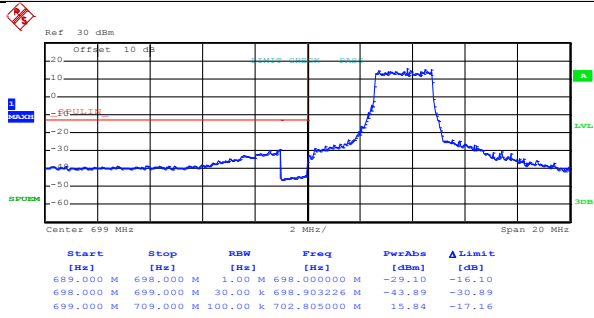
Date: 5.DEC.2016 18:14:02

Date: 5.DEC.2016 18:15:48

Lowest channel

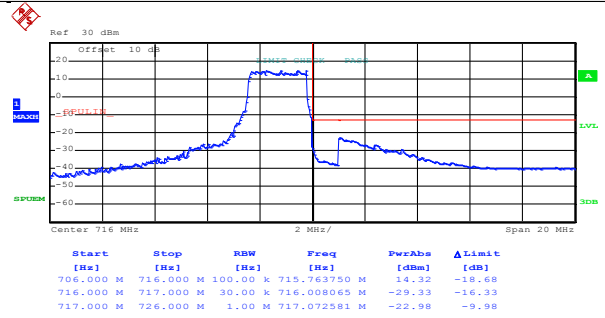
Highest channel

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



Date: 4.DEC.2016 04:51:46

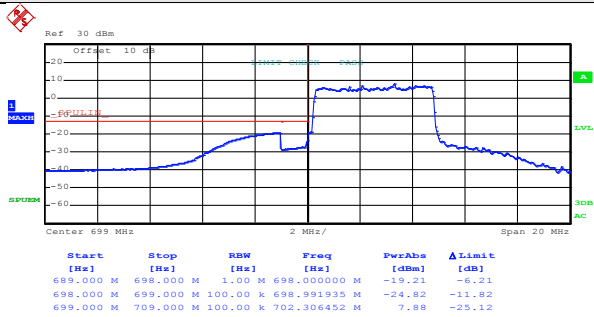
Lowest channel



Date: 4.DEC.2016 04:53:09

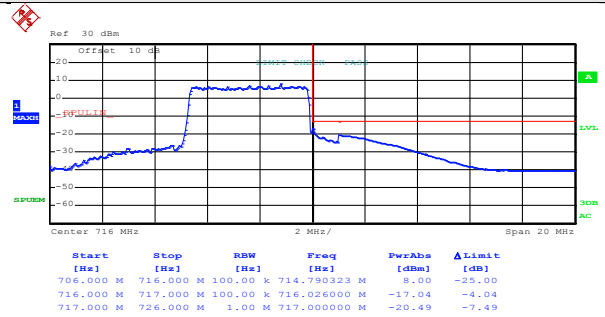
Highest channel

Test Mode: LTE band 12(16QAM RB Size 25 &RB Offset 0)



Date: 5.DEC.2016 18:14:38

Lowest channel

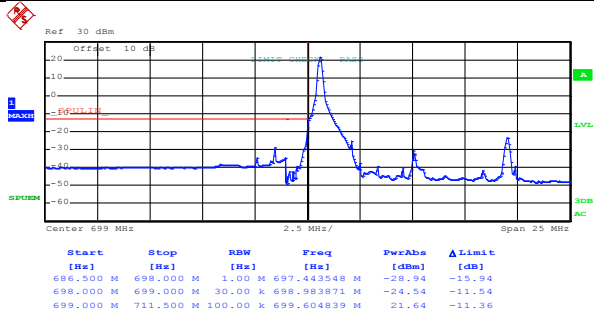


Date: 5.DEC.2016 18:16:15

Highest channel

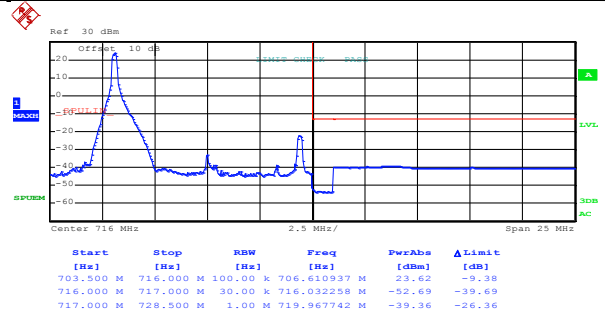
10MHz:

Test Mode: LTE band 12(QPSK RB Size 1 &RB Offset 0)



Date: 5.DEC.2016 18:18:10

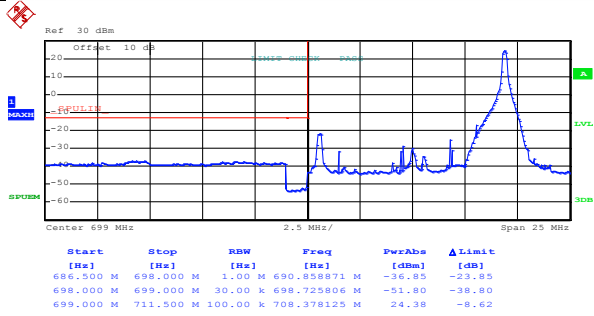
Lowest channel



Date: 5.DEC.2016 18:28:51

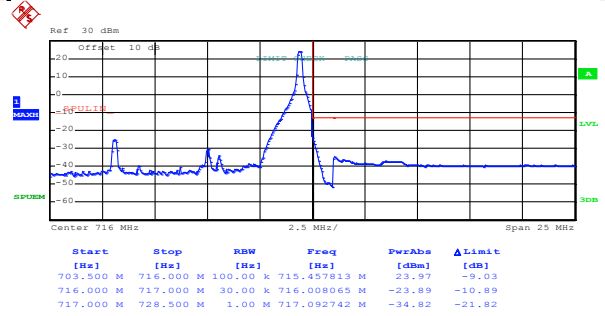
Highest channel

Test Mode: LTE band 12(QPSK RB Size 1 &RB Offset 49)



Date: 4.DEC.2016 04:54:43

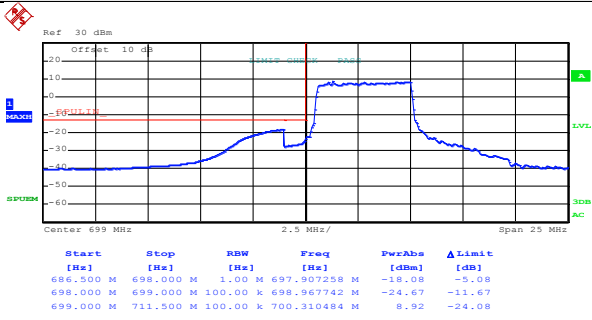
Lowest channel



Date: 4.DEC.2016 04:56:35

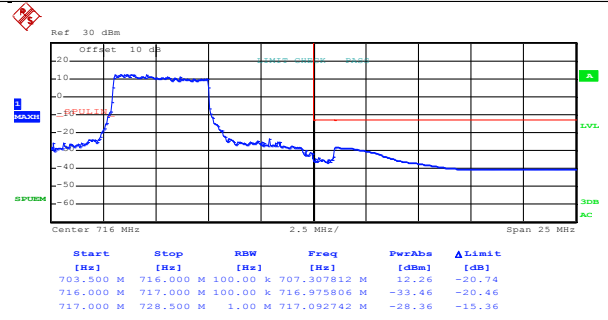
Highest channel

Test Mode: LTE band 12(QPSK RB Size 25 &RB Offset 0)



Date: 5.DEC.2016 18:19:27

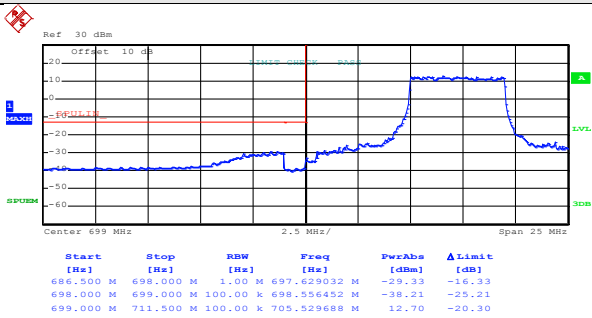
Lowest channel



Date: 5.DEC.2016 18:30:07

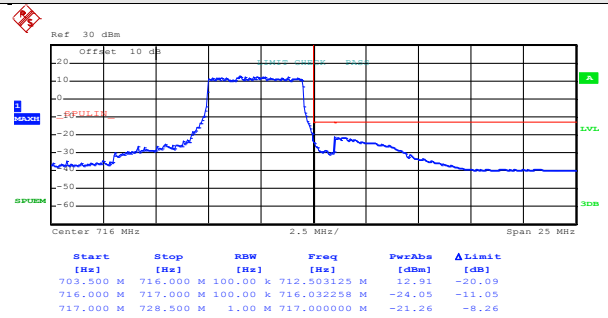
Highest channel

Test Mode: LTE band 12(QPSK RB Size 25 &RB Offset 24)



Date: 4.DEC.2016 04:55:44

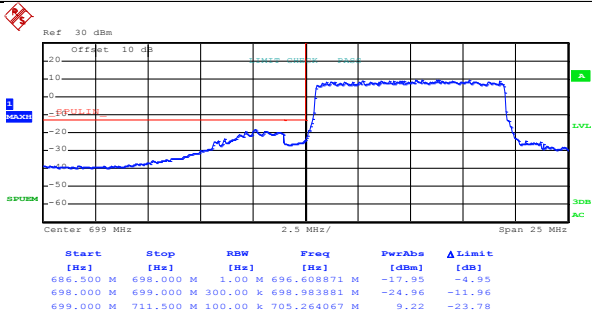
Lowest channel



Date: 4.DEC.2016 04:57:23

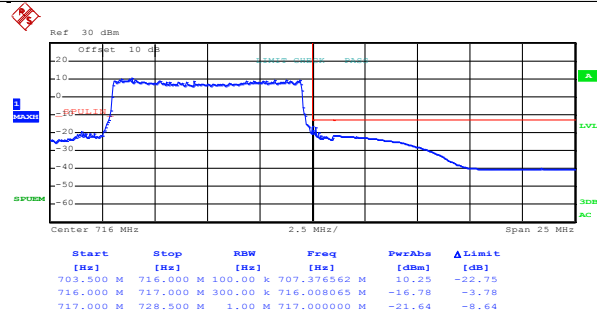
Highest channel

Test Mode: LTE band 12(QPSK RB Size 50 &RB Offset 0)



Date: 5.DEC.2016 18:28:03

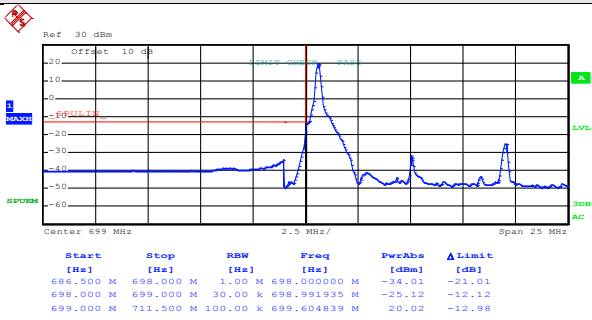
Lowest channel



Date: 5.DEC.2016 18:30:40

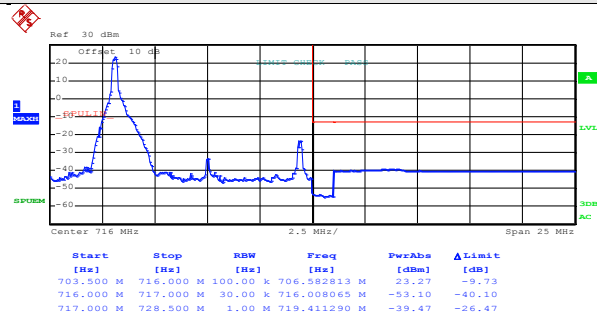
Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 0)



Date: 5.DEC.2016 18:18:20

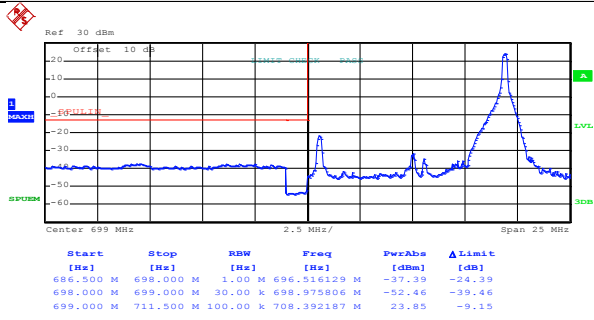
Lowest channel



Date: 5.DEC.2016 18:29:43

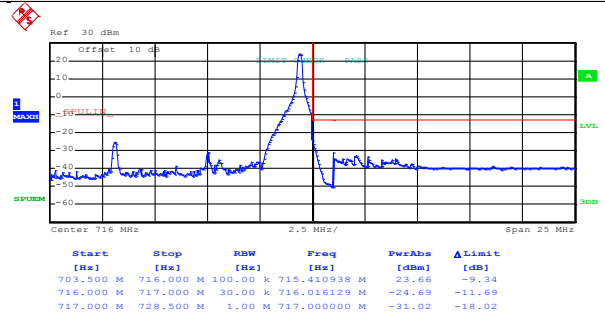
Highest channel

Test Mode: LTE band 12(16QAM RB Size 1 &RB Offset 49)



Date: 4.DEC.2016 04:54:56

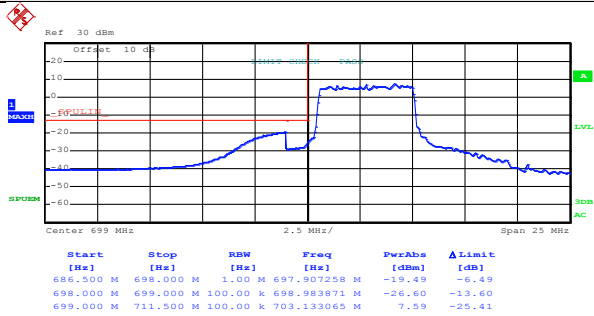
Lowest channel



Date: 4.DEC.2016 04:56:47

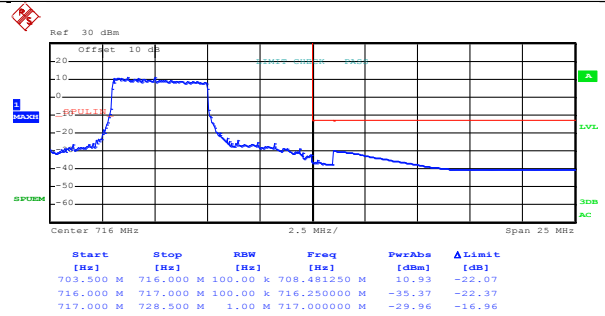
Highest channel

Test Mode: LTE band 12(16QAM RB Size 25 &RB Offset 0)



Date: 5.DEC.2016 18:19:36

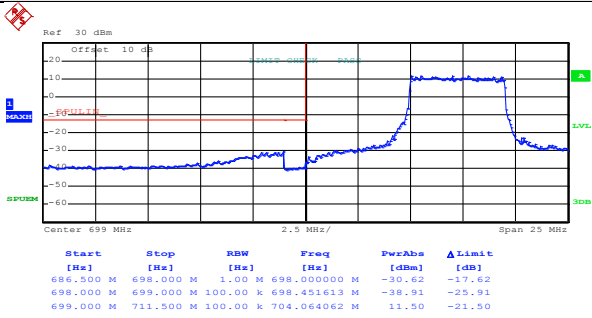
Lowest channel



Date: 5.DEC.2016 18:30:16

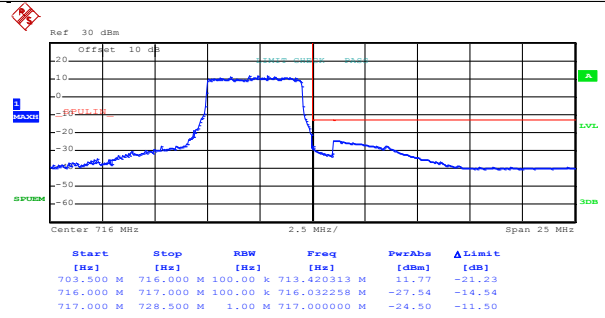
Highest channel

Test Mode: LTE band 12(16QAM RB Size 25 &RB Offset 24)



Date: 4.DEC.2016 04:55:58

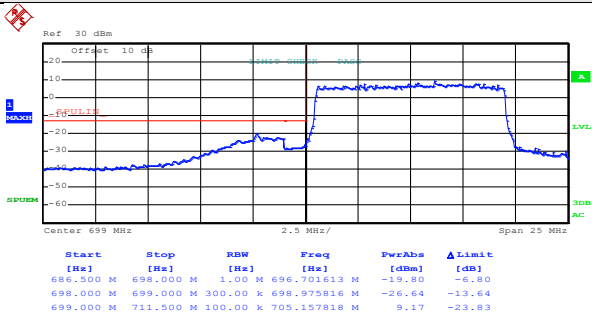
Lowest channel



Date: 4.DEC.2016 04:57:36

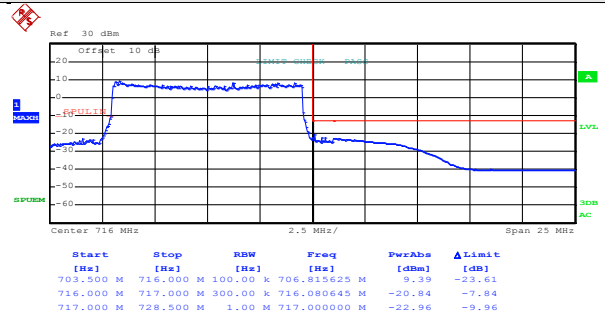
Highest channel

Test Mode: LTE band 12 (16QAM RB Size 50 &RB Offset 0)



Date: 5.DEC.2016 18:28:10

Lowest channel

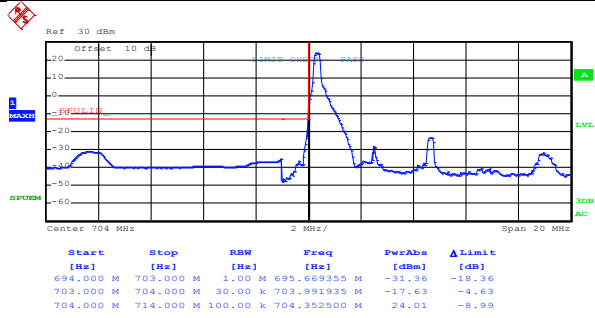


Date: 5.DEC.2016 18:30:48

Highest channel

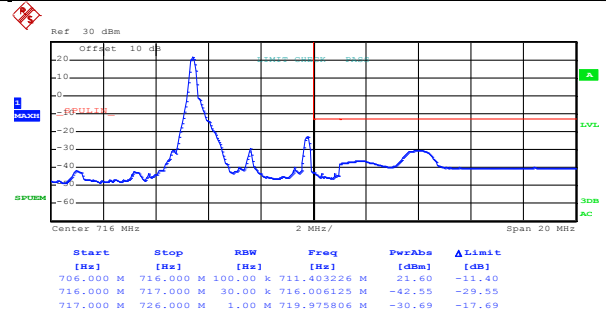
LTE band 17 part:5MHz:

Test Mode: LTE band 17(QPSK RB Size 1 & RB Offset 0)



Date: 5.DEC.2016 17:44:15

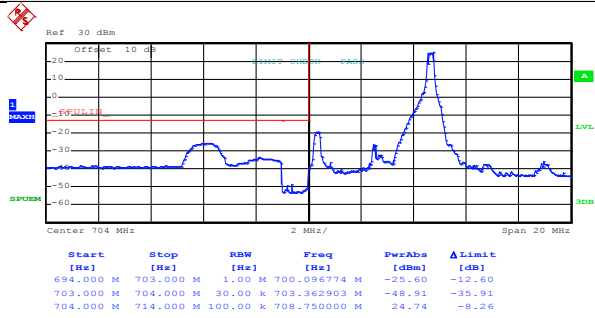
Lowest channel



Date: 5.DEC.2016 17:49:41

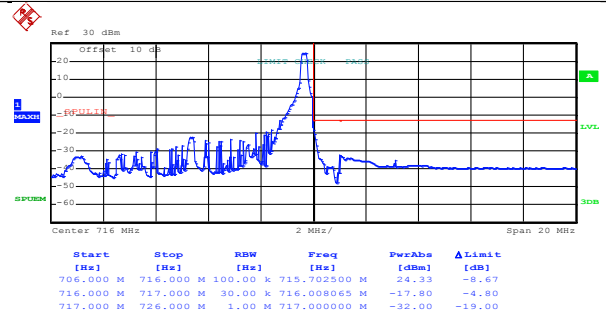
Highest channel

Test Mode: LTE band 17(QPSK RB Size 1 & RB Offset 24)



Date: 4.DEC.2016 05:00:42

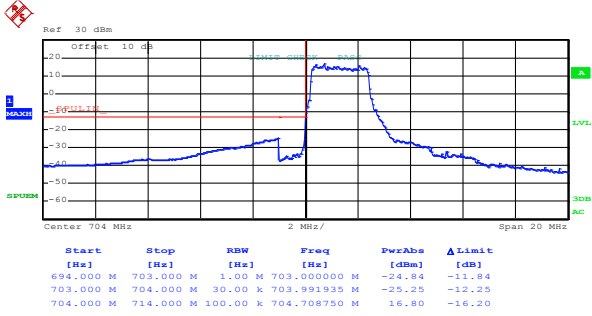
Lowest channel



Date: 4.DEC.2016 05:02:12

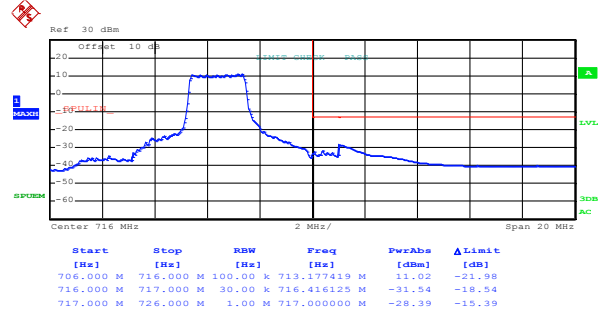
Highest channel

Test Mode: LTE band 17(QPSK RB Size 12 & RB Offset 0)



Date: 5.DEC.2016 17:45:10

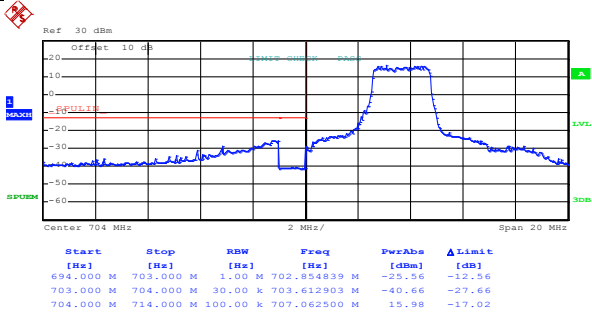
Lowest channel



Date: 5.DEC.2016 17:50:15

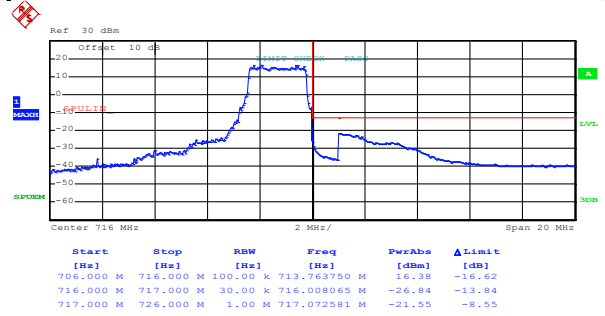
Highest channel

Test Mode: LTE band 17(QPSK RB Size 12 & RB Offset 11)



Date: 4.DEC.2016 05:01:21

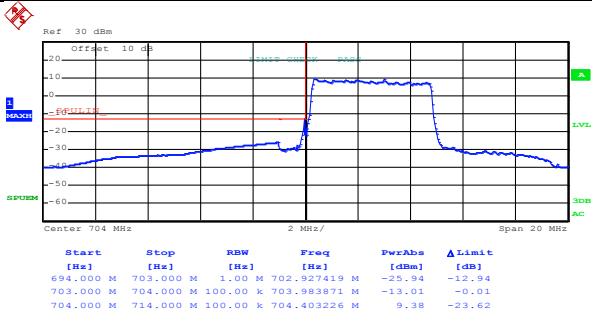
Lowest channel



Date: 4.DEC.2016 05:02:42

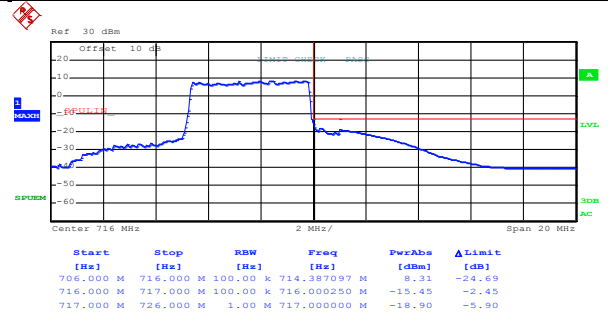
Highest channel

Test Mode: LTE band 17(QPSK RB Size 25 & RB Offset 0)



Date: 5.DEC.2016 17:48:43

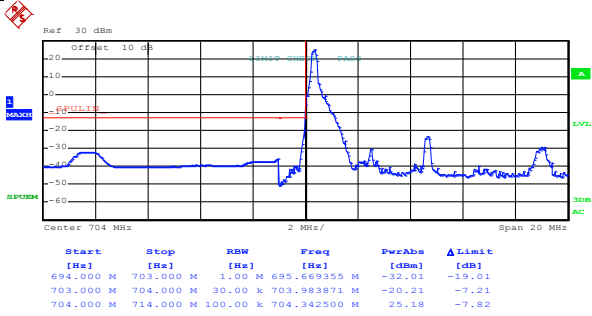
Lowest channel



Date: 5.DEC.2016 17:51:42

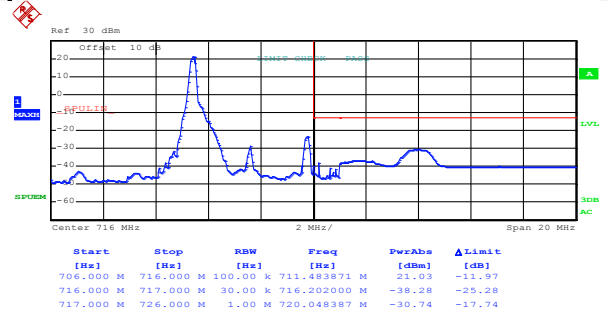
Highest channel

Test Mode: LTE band 17(16QAM RB Size 1 & RB Offset 0)



Date: 5.DEC.2016 17:44:35

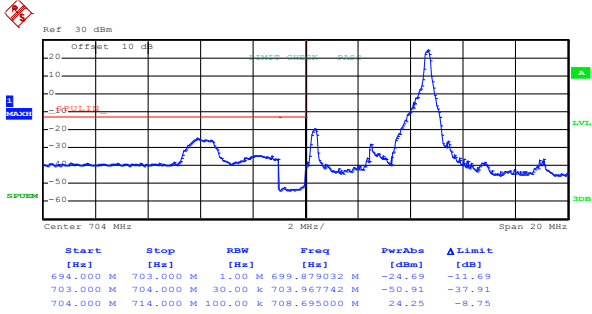
Lowest channel



Date: 5.DEC.2016 17:49:54

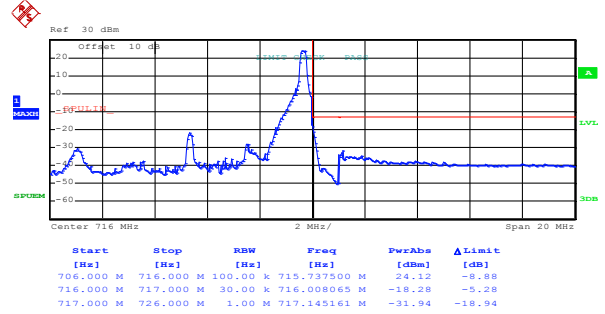
Highest channel

Test Mode: LTE band 17(16QAM RB Size 1 & RB Offset 24)



Date: 4.DEC.2016 05:00:56

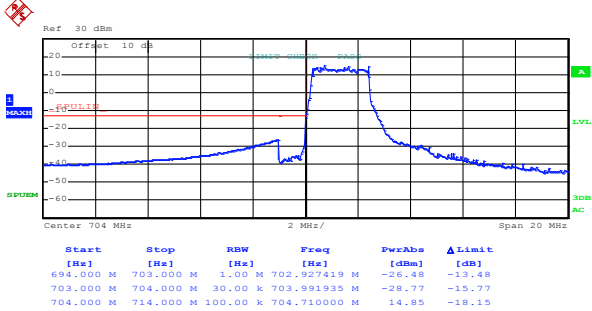
Lowest channel



Date: 4.DEC.2016 05:02:24

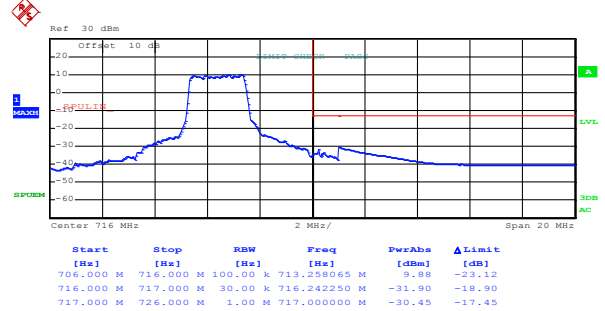
Highest channel

Test Mode: LTE band 17(16QAM RB Size 12 & RB Offset 0)



Date: 5.DEC.2016 17:45:20

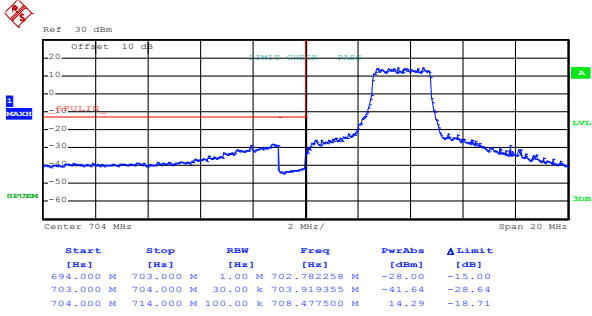
Lowest channel



Date: 5.DEC.2016 17:50:27

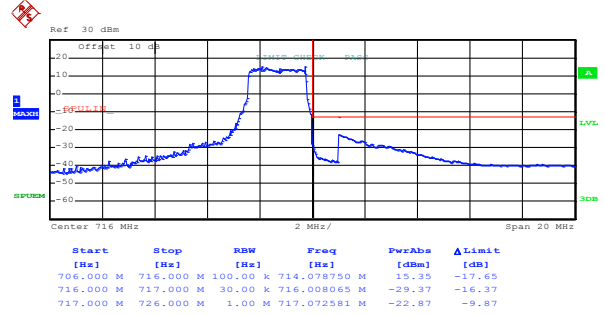
Highest channel

Test Mode: LTE band 17(16QAM RB Size 12 & RB Offset 11)



Date: 4.DEC.2016 05:01:35

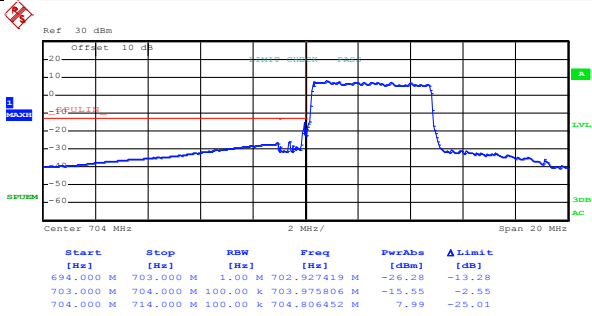
Lowest channel



Date: 4.DEC.2016 05:02:53

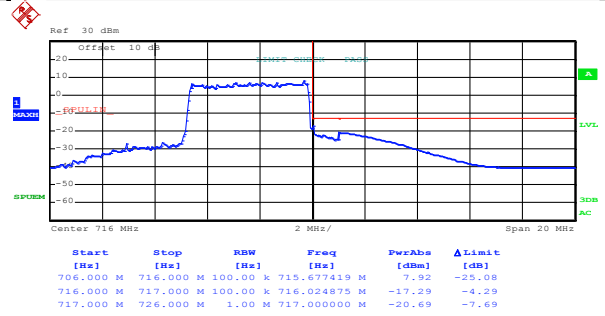
Highest channel

Test Mode: LTE band 17(16QAM RB Size 25 & RB Offset 0)



Date: 5.DEC.2016 17:48:52

Lowest channel

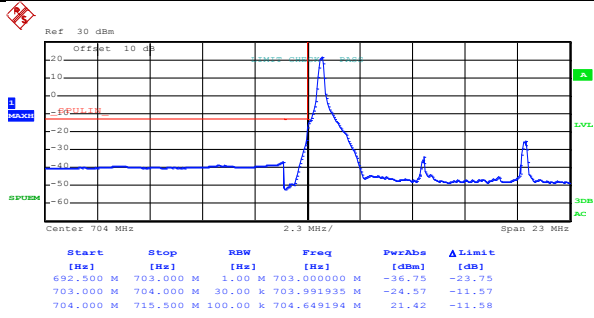


Date: 5.DEC.2016 17:51:51

Highest channel

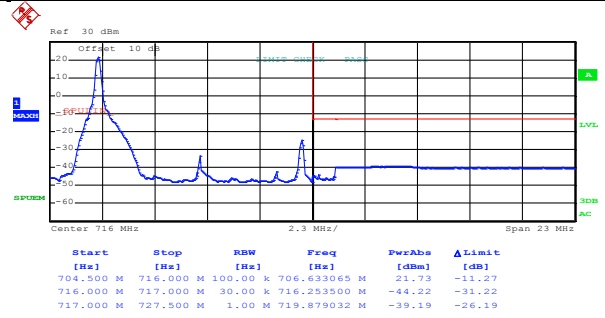
10MHz:

Test Mode: LTE band 17(QPSK RB Size 1 & RB Offset 0)



Date: 5.DEC.2016 17:57:25

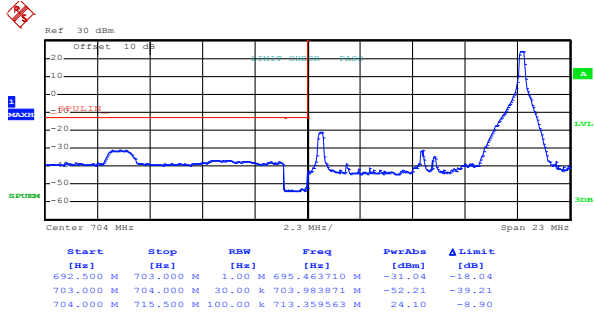
Lowest channel



Date: 5.DEC.2016 17:59:26

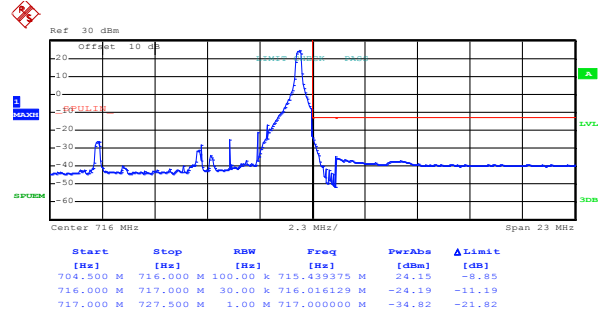
Highest channel

Test Mode: LTE band 17(QPSK RB Size 1 & RB Offset 49)



Date: 4.DEC.2016 05:04:05

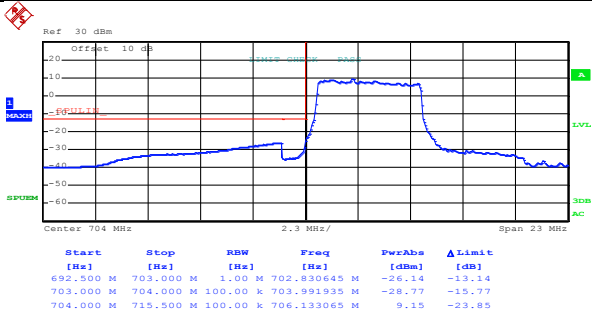
Lowest channel



Date: 4.DEC.2016 05:05:46

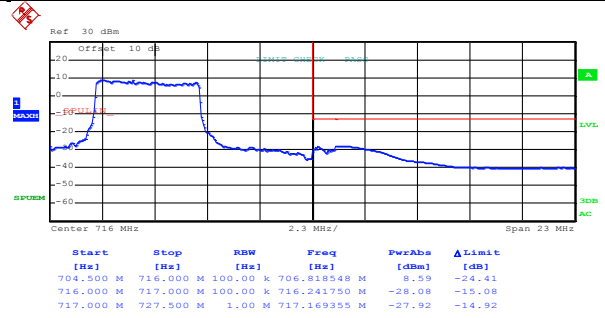
Highest channel

Test Mode: LTE band 17(QPSK RB Size 25 & RB Offset 0)



Date: 5.DEC.2016 17:58:18

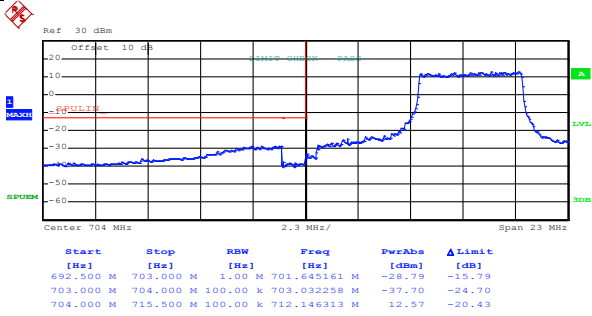
Lowest channel



Date: 5.DEC.2016 18:00:02

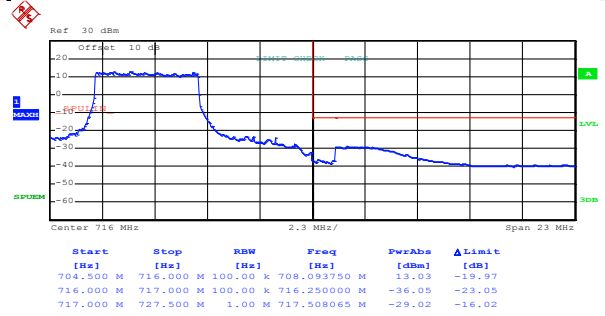
Highest channel

Test Mode: LTE band 17(QPSK RB Size 25 & RB Offset 24)



Date: 4.DEC.2016 05:05:02

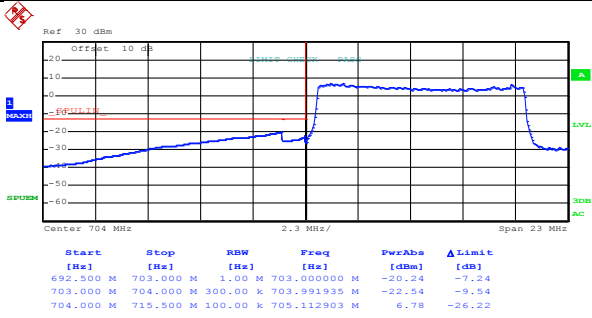
Lowest channel



Date: 4.DEC.2016 05:06:29

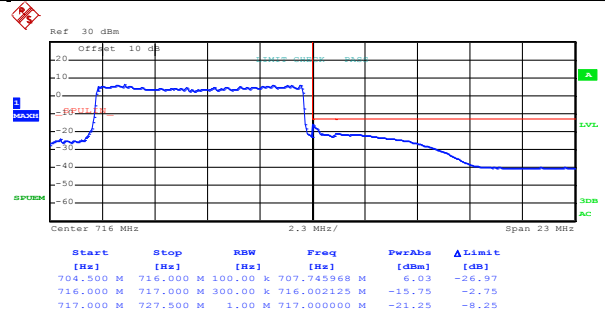
Highest channel

Test Mode: LTE band 17(QPSK RB Size 50 & RB Offset 0)



Date: 5.DEC.2016 17:56:44

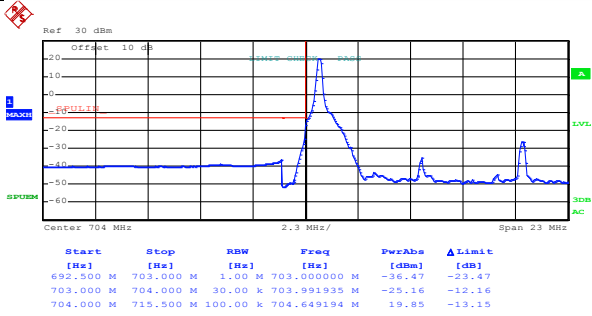
Lowest channel



Date: 5.DEC.2016 18:00:33

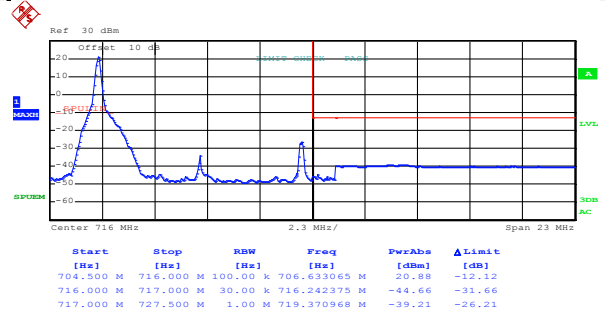
Highest channel

Test Mode: LTE band 17(16QAM RB Size 1 & RB Offset 0)



Date: 5.DEC.2016 17:57:43

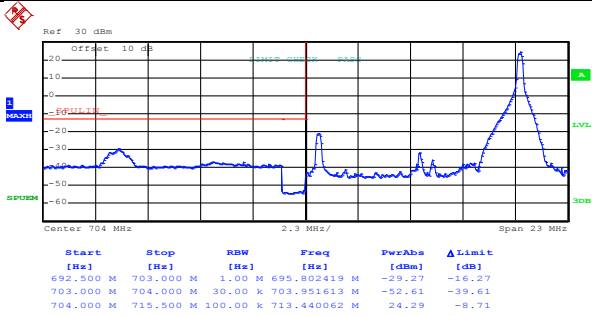
Lowest channel



Date: 5.DEC.2016 17:59:35

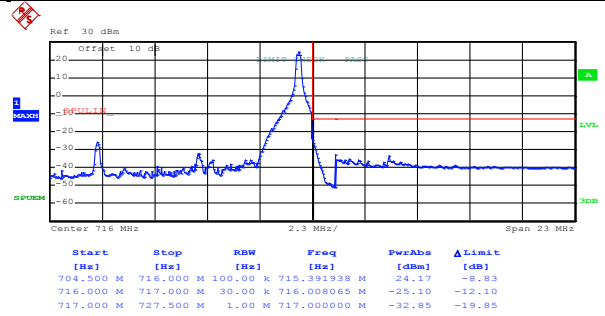
Highest channel

Test Mode: LTE band 17(16QAM RB Size 1 & RB Offset 49)



Date: 4.DEC.2016 05:04:21

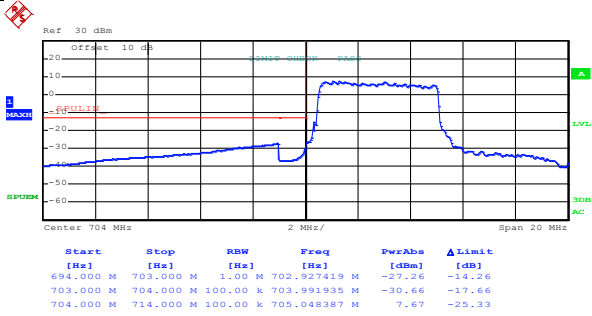
Lowest channel



Date: 4.DEC.2016 05:06:00

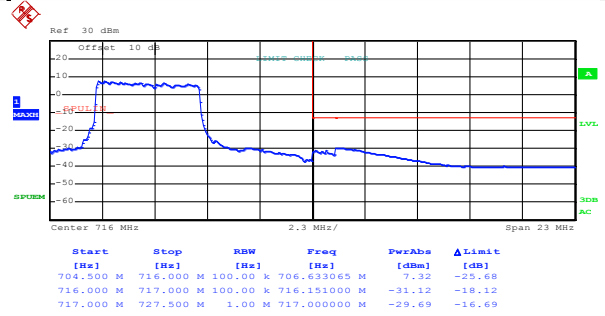
Highest channel

Test Mode: LTE band 17(16QAM RB Size 25 & RB Offset 0)



Date: 5.DEC.2016 17:53:54

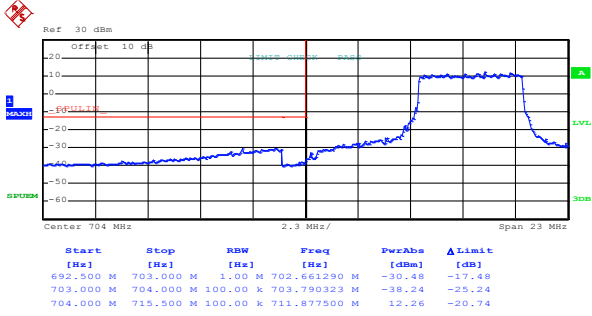
Lowest channel



Date: 5.DEC.2016 18:00:12

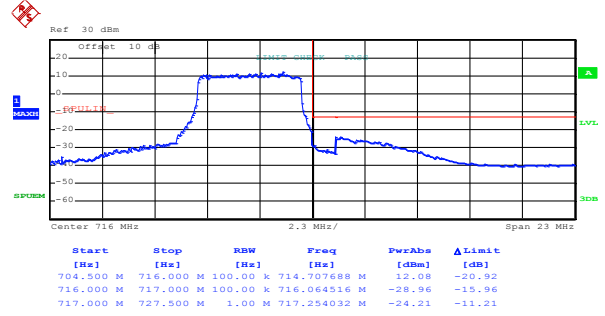
Highest channel

Test Mode: LTE band 17(16QAM RB Size 25 & RB Offset 24)



Date: 4.DEC.2016 05:05:15

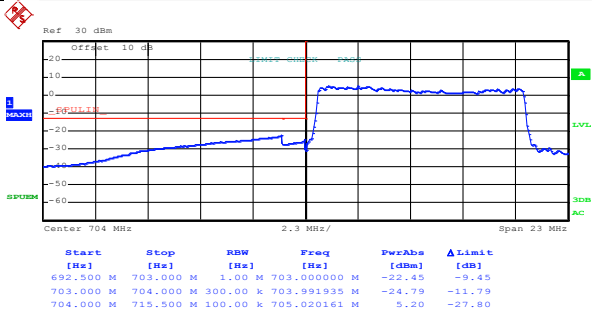
Lowest channel



Date: 4.DEC.2016 05:06:47

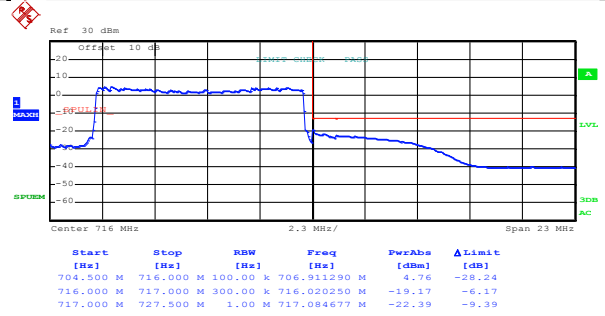
Highest channel

Test Mode: LTE band 17(16QAM RB Size 50 & RB Offset 0)



Date: 5.DEC.2016 17:56:52

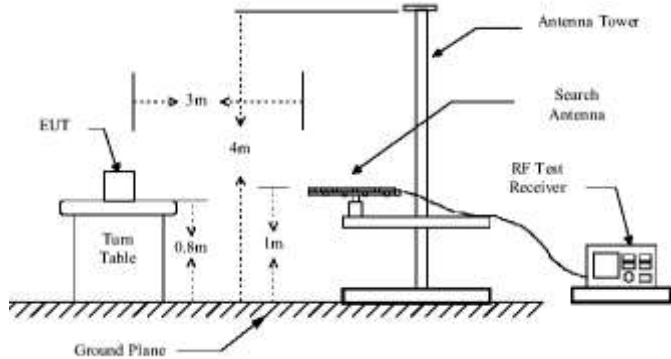
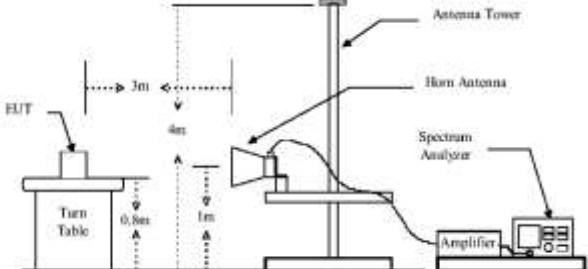
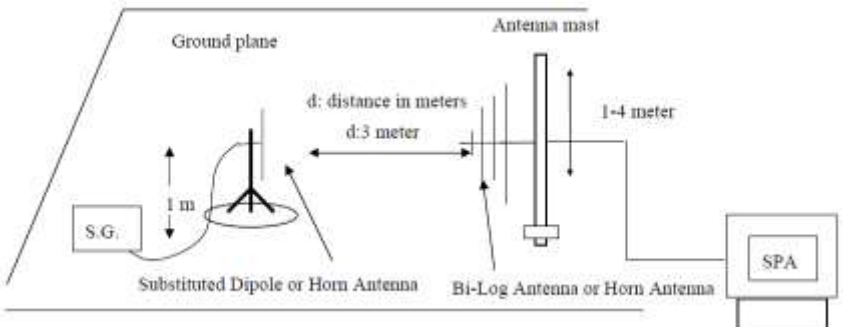
Lowest channel



Date: 5.DEC.2016 18:01:02

Highest channel

6.10 ERP, EIRP Measurement

Test Requirement:	FCC 24.232 (c), part 27.50(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 LTE Band 12: 3W ERP LTE Band 17: 3W 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	23.19	33.00	Pass
					H	18.42		
1850.70	18607	16QAM	1.4	H	V	24.47		
					H	18.53		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	27.57	33.00	Pass
					H	20.04		
1850.70	18607	16QAM	1.4	H	V	27.75		
					H	19.99		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	26.28	33.00	Pass
					H	17.05		
1850.70	18607	16QAM	1.4	H	V	25.85		
					H	18.28		

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	23.22	33.00	Pass
					H	18.41		
1880.00	18900	16QAM	1.4	H	V	24.51		
					H	18.56		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	27.54	33.00	Pass
					H	20.06		
1880.00	18900	16QAM	1.4	H	V	27.73		
					H	19.96		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.40	H	V	26.32	33.00	Pass
					H	17.16		
1880.00	18900	16QAM	1.40	H	V	25.87		
					H	18.32		

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	23.21	33.00	Pass
					H	18.42		
1909.30	19193	16QAM	1.4	H	V	24.50		
					H	15.58		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	27.51	33.00	Pass
					H	20.04		
1909.30	19193	16QAM	1.4	H	V	27.79		
					H	19.99		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	26.34	33.00	Pass
					H	17.18		
1909.30	19193	16QAM	1.4	H	V	25.89		
					H	18.30		

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	25.15	33.00	Pass
					H	15.76		
1860.00	18700	16QAM	20	H	V	23.92		
					H	15.51		
20MHz(RB size 50 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	23.64	33.00	Pass
					H	15.37		
1860.00	18700	16QAM	20	H	V	24.07		
					H	15.76		
20MHz(RB size 100 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	21.59	33.00	Pass
					H	14.28		
1860.00	18700	16QAM	20	H	V	22.17		
					H	14.88		

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	25.26	33.00	Pass
					H	15.78		
1880.00	18900	16QAM	20	H	V	23.94		
					H	15.56		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	23.67	33.00	Pass
					H	15.42		
1880.00	18900	16QAM	20	H	V	24.06		
					H	15.79		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	21.62	33.00	Pass
					H	14.36		
1880.00	18900	16QAM	20	H	V	22.17		
					H	14.86		

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	25.32	33.00	Pass
					H	15.79		
1900.00	19100	16QAM	20	H	V	23.91		
					H	15.64		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	23.68	33.00	Pass
					H	15.46		
1900.00	19100	16QAM	20	H	V	24.09		
					H	15.83		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	21.64	33.00	Pass
					H	14.37		
1900.00	19100	16QAM	20	H	V	22.19		
					H	14.87		

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	21.82	30.00	Pass
					H	14.06		
1710.70	19957	16QAM	1.4	H	V	23.60		
					H	14.63		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	22.53	30.00	Pass
					H	14.32		
1710.70	19957	16QAM	1.4	H	V	23.48		
					H	15.10		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.80	30.00	Pass
					H	13.31		
1710.70	19957	16QAM	1.4	H	V	22.64		
					H	13.52		

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	21.86	30.00	Pass
					H	14.25		
1732.50	20175	16QAM	1.4	H	V	23.62		
					H	14.67		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	22.53	30.00	Pass
					H	14.36		
1732.50	20175	16QAM	1.4	H	V	23.52		
					H	15.21		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	21.87	30.00	Pass
					H	13.36		
1732.50	20175	16QAM	1.4	H	V	22.69		
					H	13.58		

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	21.86	30.00	Pass
					H	14.24		
1754.30	20393	16QAM	1.4	H	V	23.69		
					H	14.68		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	22.54	30.00	Pass
					H	14.32		
1754.30	20393	16QAM	1.4	H	V	23.57		
					H	15.26		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	21.89	30.00	Pass
					H	13.37		
1754.30	20393	16QAM	1.4	H	V	22.72		
					H	13.64		

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	24.06	30.00	Pass
					H	15.55		
1720.00	20050	16QAM	20	H	V	23.93		
					H	15.51		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	23.29	30.00	Pass
					H	15.27		
1720.00	20050	16QAM	20	H	V	23.56		
					H	15.52		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	21.76	30.00	Pass
					H	14.03		
1720.00	20050	16QAM	20	H	V	22.24		
					H	14.48		

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	24.08	30.00	Pass
					H	15.54		
1732.50	20175	16QAM	20	H	V	23.96		
					H	15.54		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	23.32	30.00	Pass
					H	15.29		
1732.50	20175	16QAM	20	H	V	23.57		
					H	15.51		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	21.78	30.00	Pass
					H	14.02		
1732.50	20175	16QAM	20	H	V	22.29		
					H	14.52		

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	24.12	30.00	Pass
					H	15.58		
1745.00	20300	16QAM	20	H	V	23.94		
					H	15.57		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	23.36	30.00	Pass
					H	15.34		
1745.00	20300	16QAM	20	H	V	23.58		
					H	15.52		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	21.75	30.00	Pass
					H	14.06		
1745.00	20300	16QAM	20	H	V	22.37		
					H	14.56		

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	22.19	33.00	Pass
					H	19.73		
2502.50	20775	16QAM	5	H	V	22.02		
					H	19.61		
5MHz(RB size 12& RB offset 0)								
2502.50	20775	QPSK	5	H	V	19.23	33.00	Pass
					H	16.87		
2502.50	20775	16QAM	5	H	V	19.11		
					H	16.52		
5MHz(RB size 25& RB offset 0)								
2502.50	20775	QPSK	5	H	V	17.77	33.00	Pass
					H	14.97		
2502.50	20775	16QAM	5	H	V	16.68		
					H	14.98		

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	22.23	33.00	Pass
					H	19.76		
2535.00	21100	16QAM	5	H	V	22.06		
					H	19.64		
5MHz(RB size 12& RB offset 0)								
2535.00	21100	QPSK	5	H	V	19.26	33.00	Pass
					H	16.89		
2535.00	21100	16QAM	5	H	V	19.14		
					H	16.57		
5MHz(RB size 25& RB offset 0)								
2535.00	21100	QPSK	5	H	V	17.79	33.00	Pass
					H	14.99		
2535.00	21100	16QAM	5	H	V	16.72		
					H	15.03		

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	22.21	33.00	Pass
					H	19.78		
2567.50	21425	16QAM	5	H	V	22.10		
					H	19.67		
5MHz(RB size 12& RB offset 0)								
2567.50	21425	QPSK	5	H	V	19.35	33.00	Pass
					H	16.92		
2567.50	21425	16QAM	5	H	V	19.16		
					H	16.58		
5MHz(RB size 25& RB offset 0)								
2567.50	21425	QPSK	5	H	V	17.80	33.00	Pass
					H	14.97		
2567.50	21425	16QAM	5	H	V	16.76		
					H	15.06		

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	22.06	33.00	Pass
					H	18.67		
2510.00	20850	16QAM	20	H	V	25.81		
					H	22.50		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	21.72	33.00	Pass
					H	19.26		
2510.00	20850	16QAM	20	H	V	24.10		
					H	21.06		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	19.89	33.00	Pass
					H	17.71		
2510.00	20850	16QAM	20	H	V	23.19		
					H	19.52		

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	22.07	33.00	Pass
					H	18.69		
2535.00	21100	16QAM	20	H	V	25.86		
					H	22.51		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	21.76	33.00	Pass
					H	19.24		
2535.00	21100	16QAM	20	H	V	24.09		
					H	21.03		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	19.92	33.00	Pass
					H	17.87		
2535.00	21100	16QAM	20	H	V	21.16		
					H	19.50		

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	22.03	33.00	Pass
					H	18.72		
2560.00	21350	16QAM	20	H	V	25.54		
					H	22.53		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	21.79	33.00	Pass
					H	19.23		
2560.00	21350	16QAM	20	H	V	24.05		
					H	21.02		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	19.94	33.00	Pass
					H	17.89		
2560.00	21350	16QAM	20	H	V	21.18		
					H	19.56		

LTE band 12 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
699.70	23017	QPSK	1.4	H	V	20.02	34.77	Pass
					H	20.33		
699.70	23017	16QAM	1.4	H	V	21.02		
					H	19.92		
1.4MHz(RB size 3& RB offset 0)								
699.70	23017	QPSK	1.4	H	V	20.00	34.77	Pass
					H	18.67		
699.70	23017	16QAM	1.4	H	V	21.02		
					H	19.06		
1.4MHz(RB size 6& RB offset 0)								
699.70	23017	QPSK	1.4	H	V	19.37	34.77	Pass
					H	17.72		
699.70	23017	16QAM	1.4	H	V	20.24		
					H	17.86		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
707.50	23095	QPSK	1.4	H	V	20.04	34.77	Pass
					H	20.37		
707.50	23095	16QAM	1.4	H	V	21.06		
					H	19.96		
1.4MHz(RB size 3& RB offset 0)								
707.50	23095	QPSK	1.4	H	V	20.03	34.77	Pass
					H	18.69		
707.50	23095	16QAM	1.4	H	V	21.05		
					H	19.03		
1.4MHz(RB size 6& RB offset 0)								
707.50	23095	QPSK	1.4	H	V	19.38	34.77	Pass
					H	17.76		
707.50	23095	16QAM	1.4	H	V	20.26		
					H	17.84		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
715.30	23173	QPSK	1.4	H	V	20.09	34.77	Pass
					H	20.38		
715.30	23173	16QAM	1.4	H	V	21.05		
					H	19.94		
1.4MHz(RB size 3& RB offset 0)								
715.30	23173	QPSK	1.4	H	V	20.03	34.77	Pass
					H	18.76		
715.30	23173	16QAM	1.4	H	V	21.01		
					H	19.02		
1.4MHz(RB size 6& RB offset 0)								
715.30	23173	QPSK	1.4	H	V	19.35	34.77	Pass
					H	17.74		
715.30	23173	16QAM	1.4	H	V	20.28		
					H	17.86		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
704.00	23060	QPSK	10	H	V	20.53	34.77	Pass
					H	20.57		
704.00	23060	16QAM	10	H	V	21.09		
					H	20.64		
10MHz(RB size 25& RB offset 0)								
704.00	23060	QPSK	10	H	V	21.87	34.77	Pass
					H	21.24		
704.00	23060	16QAM	10	H	V	21.86		
					H	21.32		
10MHz(RB size 50& RB offset 0)								
704.00	23060	QPSK	10	H	V	20.74	34.77	Pass
					H	20.34		
704.00	23060	16QAM	10	H	V	21.29		
					H	20.84		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
707.50	23095	QPSK	10	H	V	20.54	34.77	Pass
					H	20.59		
707.50	23095	16QAM	10	H	V	21.10		
					H	20.67		
10MHz(RB size 25& RB offset 0)								
707.50	23095	QPSK	10	H	V	21.86	34.77	Pass
					H	21.26		
707.50	23095	16QAM	10	H	V	21.89		
					H	21.31		
10MHz(RB size 50 & RB offset 0)								
707.50	23095	QPSK	10	H	V	20.73	34.77	Pass
					H	20.32		
707.50	23095	16QAM	10	H	V	21.28		
					H	20.88		

High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
711.00	23130	QPSK	10	H	V	20.56	34.77	Pass
					H	20.57		
711.00	23130	16QAM	10	H	V	21.13		
					H	20.64		
10MHz(RB size 25& RB offset 0)								
711.00	23130	QPSK	10	H	V	21.87	34.77	Pass
					H	21.29		
711.00	23130	16QAM	10	H	V	21.92		
					H	21.34		
10MHz(RB size 50 & RB offset 0)								
711.00	23130	QPSK	10	H	V	20.76	34.77	Pass
					H	20.36		
711.00	23130	16QAM	10	H	V	21.34		
					H	20.86		

**LTE band 17 part
Lowest channel**

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
706.50	23755	QPSK	5	H	V	21.23	34.77	Pass
					H	21.76		
706.50	23755	16QAM	5	H	V	19.66		
					H	21.82		
5MHz(RB size 12 & RB offset 0)								
706.50	23755	QPSK	5	H	V	20.62	34.77	Pass
					H	21.62		
706.50	23755	16QAM	5	H	V	20.59		
					H	21.83		
5MHz(RB size 25 & RB offset 0)								
706.50	23755	QPSK	5	H	V	20.14	34.77	Pass
					H	20.07		
706.50	23755	16QAM	5	H	V	20.51		
					H	20.66		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	5	H	V	21.22	34.77	Pass
					H	21.74		
710.00	23790	16QAM	5	H	V	19.68		
					H	21.86		
5MHz(RB size 12 & RB offset 0)								
710.00	23790	QPSK	5	H	V	20.65	34.77	Pass
					H	21.64		
710.00	23790	16QAM	5	H	V	20.63		
					H	21.86		
5MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	5	H	V	20.16	34.77	Pass
					H	20.09		
710.00	23790	16QAM	5	H	V	20.53		
					H	20.69		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
713.50	23825	QPSK	5	H	V	21.26	34.77	Pass
					H	21.76		
713.50	23825	16QAM	5	H	V	19.72		
					H	21.87		
5MHz(RB size 12 & RB offset 0)								
713.50	23825	QPSK	5	H	V	20.69	34.77	Pass
					H	21.66		
713.50	23825	16QAM	5	H	V	20.56		
					H	21.87		
5MHz(RB size 25 & RB offset 0)								
713.50	23825	QPSK	5	H	V	20.18	34.77	Pass
					H	20.12		
713.50	23825	16QAM	5	H	V	20.56		
					H	20.74		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
709.00	23780	QPSK	10	H	V	21.21	34.77	Pass
					H	21.56		
709.00	23780	16QAM	10	H	V	21.54		
					H	21.95		
10MHz(RB size 25& RB offset 0)								
709.00	23780	QPSK	10	H	V	19.92	34.77	Pass
					H	21.18		
709.00	23780	16QAM	10	H	V	20.04		
					H	21.25		
10MHz(RB size 50& RB offset 0)								
709.00	23780	QPSK	10	H	V	19.76	34.77	Pass
					H	20.96		
709.00	23780	16QAM	10	H	V	19.79		
					H	21.08		

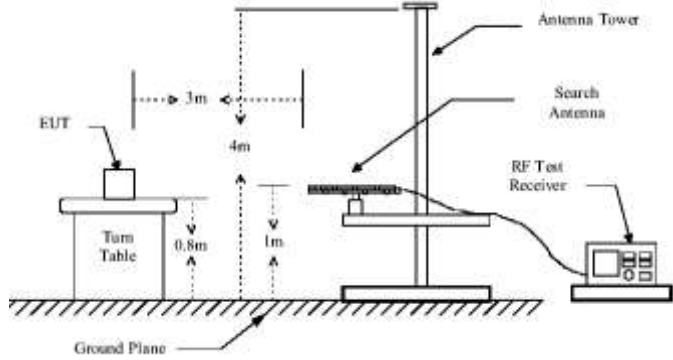
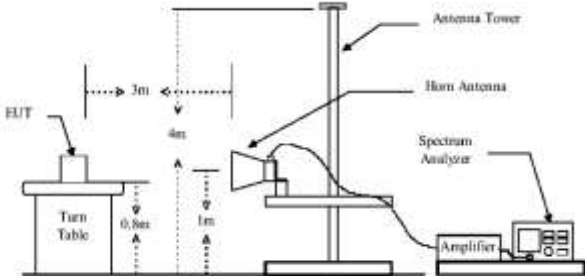
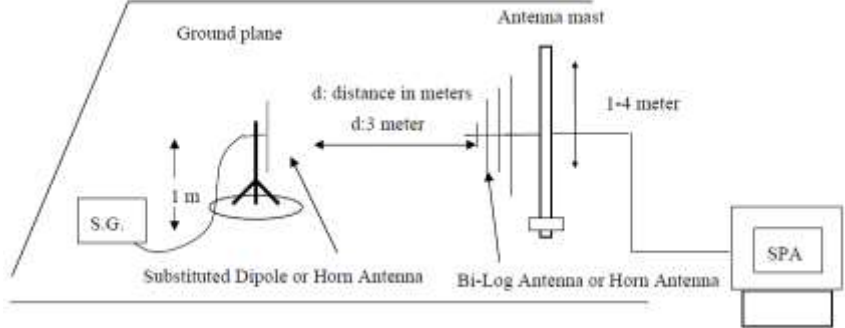
Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	10	H	V	21.23	34.77	Pass
					H	21.54		
710.00	23790	16QAM	10	H	V	21.57		
					H	21.96		
10MHz(RB size 25& RB offset 0)								
710.00	23790	QPSK	10	H	V	19.94	34.77	Pass
					H	21.22		
710.00	23790	16QAM	10	H	V	20.06		
					H	21.28		
10MHz(RB size 50& RB offset 0)								
710.00	23790	QPSK	10	H	V	19.78	34.77	Pass
					H	21.03		
710.00	23790	16QAM	10	H	V	19.86		
					H	21.06		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
711.00	23800	QPSK	10	H	V	21.26	34.77	Pass
					H	21.52		
711.00	23800	16QAM	10	H	V	21.58		
					H	21.98		
10MHz(RB size 25& RB offset 0)								
711.00	23800	QPSK	10	H	V	19.96	34.77	Pass
					H	21.24		
711.00	23800	16QAM	10	H	V	20.08		
					H	21.32		
10MHz(RB size 50& RB offset 0)								
711.00	23800	QPSK	10	H	V	19.83	34.77	Pass
					H	21.06		
711.00	23800	16QAM	10	H	V	19.88		
					H	21.12		

6.11 Field strength of spurious radiation measurement

Test Requirement:	FCC Part 24.238 (a), Part 27.53(g), Part 27.53(m), Part 27.53(h)
Test Method:	FCC part 2.1053
Limit:	LTE Band 2, LTE Band 4, LTE Band 12 and LTE Band 17: -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

	<p>was determined using the substitution method.</p> <p>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.</p> $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
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	-44.00	-13.00	Pass
5552.10	V	-31.67		
7402.00	V	-33.42		
3701.40	Horizontal	-40.39		
5552.10	H	-26.58		
7402.00	H	-30.84		
Middle				
3760.00	Vertical	-43.69	-13.00	Pass
5640.00	V	-26.11		
7520.00	V	-33.96		
3760.00	Horizontal	-43.36		
5640.00	H	-29.83		
7520.00	H	-34.55		
Highest				
3816.60	Vertical	-44.14	-13.00	Pass
5724.90	V	-29.10		
7633.20	V	-29.24		
3816.60	Horizontal	-46.70		
5724.90	H	-31.36		
7633.20	H	-30.63		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3703.00	Vertical	-47.56	-13.00	Pass
5554.50	V	-36.46		
7406.00	V	-36.42		
3703.00	Horizontal	-47.86		
5554.50	H	-37.61		
7406.00	H	-36.32		
Middle				
3760.00	Vertical	-48.36	-13.00	Pass
5640.00	V	-37.69		
7520.00	V	-36.88		
3760.00	Horizontal	-47.22		
5640.00	H	-36.59		
7520.00	H	-37.04		
Highest				
3817.00	Vertical	-47.41	-13.00	Pass
5725.50	V	-36.29		
7634.00	V	-36.09		
3817.00	Horizontal	-48.52		
5725.50	H	-40.32		
7634.00	H	-33.21		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3705.00	Vertical	-44.02	-13.00	Pass
5557.50	V	-31.64		
7410.00	V	-33.46		
3705.00	Horizontal	-40.37		
5557.50	H	-26.62		
7410.00	H	-30.86		
Middle				
3760.00	Vertical	-43.87	-13.00	Pass
5640.00	V	-26.13		
7520.00	V	-33.97		
3760.00	Horizontal	-43.38		
5640.00	H	-29.86		
7520.00	H	-35.57		
Highest				
3815.00	Vertical	-44.16	-13.00	Pass
5722.50	V	-29.08		
7630.00	V	-29.26		
3815.00	Horizontal	-46.71		
5722.50	H	-31.38		
7630.00	H	-30.65		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3710.00	Vertical	-47.52	-13.00	Pass
5565.00	V	-36.37		
7420.00	V	-36.32		
3710.00	Horizontal	-47.78		
5565.00	H	-37.62		
7420.00	H	-34.36		
Middle				
3760.00	Vertical	-48.32	-13.00	Pass
5640.00	V	-37.76		
7520.00	V	-36.85		
3760.00	Horizontal	-47.26		
5640.00	H	-36.59		
7520.00	H	-37.06		
Highest				
3810.00	Vertical	-47.46	-13.00	Pass
5715.00	V	-36.26		
7620.00	V	-36.12		
3810.00	Horizontal	-48.56		
5715.00	H	-40.36		
7620.00	H	-33.27		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3715.00	Vertical	-43.98	-13.00	Pass
5572.50	V	-31.62		
7430.00	V	-33.44		
3715.00	Horizontal	-40.34		
5572.50	H	-26.64		
7430.00	H	-30.87		
Middle				
3760.00	Vertical	-43.89	-13.00	Pass
5640.00	V	-26.16		
7520.00	V	-33.94		
3760.00	Horizontal	-43.36		
5640.00	H	-29.87		
7520.00	H	-35.54		
Highest				
3805.00	Vertical	-44.12	-13.00	Pass
5707.50	V	-29.14		
7610.00	V	-29.32		
3805.00	Horizontal	-46.76		
5707.50	H	-31.47		
7610.00	H	-30.66		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3720.00	Vertical	-47.46	-13.00	Pass
5580.00	V	-36.32		
7440.00	V	-36.30		
3720.00	Horizontal	-47.75		
5580.00	H	-37.59		
7440.00	H	-34.27		
Middle				
3760.00	Vertical	-48.31	-13.00	Pass
5640.00	V	-37.68		
7520.00	V	-36.88		
3760.00	Horizontal	-47.19		
5640.00	H	-36.56		
7520.00	H	-37.00		
Highest				
3800.00	Vertical	-47.40	-13.00	Pass
5700.00	V	-36.22		
7600.00	V	-36.06		
3800.00	Horizontal	-48.54		
5700.00	H	-40.29		
7600.00	H	-33.25		

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	-43.75	-13.00	Pass
5132.10	V	-33.05		
6842.80	V	-27.46		
3421.40	Horizontal	-42.13		
5132.10	H	-34.27		
6842.80	H	-32.86		
Middle				
3465.00	Vertical	-44.66	-13.00	Pass
5197.50	V	-35.68		
6930.00	V	-26.91		
3465.00	Horizontal	-39.28		
5197.50	H	-34.64		
6930.00	H	-31.05		
Highest				
3508.60	Vertical	-44.07	-13.00	Pass
5262.90	V	-35.06		
7017.20	V	-33.57		
3508.60	Horizontal	-39.46		
5262.90	H	-34.36		
7017.20	H	-34.69		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-47.96	-13.00	Pass
5134.50	V	-36.64		
6846.00	V	-37.19		
3423.00	Horizontal	-43.51		
5134.50	H	-41.83		
6846.00	H	-56.57		
Middle				
3465.00	Vertical	-47.56	-13.00	Pass
5197.50	V	-39.40		
6930.00	V	-37.32		
3465.00	Horizontal	-45.62		
5197.50	H	-41.19		
6930.00	H	-36.93		
Highest				
3507.00	Vertical	-46.93	-13.00	Pass
5260.50	V	-40.67		
7014.00	V	-36.82		
3507.00	Horizontal	-47.58		
5260.50	H	-41.73		
7014.00	H	-38.21		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-43.72	-13.00	Pass
5137.50	V	-33.14		
6850.00	V	-27.53		
3425.00	Horizontal	-42.16		
5137.50	H	-34.21		
6850.00	H	-32.89		
Middle				
3465.00	Vertical	-44.62	-13.00	Pass
5197.50	V	-35.69		
6930.00	V	-26.91		
3465.00	Horizontal	-39.25		
5197.50	H	-34.66		
6930.00	H	-31.08		
Highest				
3505.00	Vertical	-44.03	-13.00	Pass
5257.50	V	-35.12		
7010.00	V	-33.62		
3505.00	Horizontal	-39.47		
5257.50	H	-34.62		
7010.00	H	-34.73		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-47.94	-13.00	Pass
5145.00	V	-36.61		
6860.00	V	-37.16		
3430.00	Horizontal	-43.56		
5145.00	H	-41.82		
6860.00	H	-36.56		
Middle				
3465.00	Vertical	-47.52	-13.00	Pass
5197.50	V	-39.42		
6930.00	V	-37.29		
3465.00	Horizontal	-45.56		
5197.50	H	-41.12		
6930.00	H	-36.87		
Highest				
3500.00	Vertical	-46.87	-13.00	Pass
5250.00	V	-40.59		
7000.00	V	-36.83		
3500.00	Horizontal	-47.59		
5250.00	H	-41.72		
7000.00	H	-38.26		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-43.71	-13.00	Pass
5152.50	V	-33.38		
6870.00	V	-27.51		
3435.00	Horizontal	-42.26		
5152.50	H	-34.21		
6870.00	H	-32.84		
Middle				
3465.00	Vertical	-44.58	-13.00	Pass
5197.50	V	-35.73		
6930.00	V	-26.94		
3465.00	Horizontal	-39.29		
5197.50	H	-34.72		
6930.00	H	-31.13		
Highest				
3495.00	Vertical	-44.05	-13.00	Pass
5242.50	V	-35.24		
6990.00	V	-33.66		
3495.00	Horizontal	-39.54		
5242.50	H	-34.63		
6990.00	H	-37.76		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-47.97	-13.00	Pass
5160.00	V	-36.62		
6880.00	V	-37.15		
3440.00	Horizontal	-43.60		
5160.00	H	-41.70		
6880.00	H	-36.63		
Middle				
3465.00	Vertical	-47.57	-13.00	Pass
5197.50	V	-39.45		
6930.00	V	-37.24		
3465.00	Horizontal	-45.53		
5197.50	H	-41.09		
6930.00	H	-36.85		
Highest				
3490.00	Vertical	-46.83	-13.00	Pass
5235.00	V	-40.57		
6980.00	V	-36.81		
3490.00	Horizontal	-47.45		
5235.00	H	-41.74		
6980.00	H	-38.20		

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	-36.22	-25.00	Pass
7507.50	V	-36.48		
10010.00	V	-34.52		
5005.00	Horizontal	-35.05		
7507.50	H	-37.47		
10010.00	H	-33.73		
Middle				
5070.00	Vertical	-34.61	-25.00	Pass
7605.00	V	-35.18		
10140.00	V	-34.50		
5070.00	Horizontal	-36.04		
7605.00	H	-35.45		
10140.00	H	-35.30		
Highest				
5135.00	Vertical	-36.16	-25.00	Pass
7702.50	V	-32.43		
10270.00	V	-34.19		
5135.00	Horizontal	-34.55		
7702.50	H	-29.21		
10270.00	H	-31.99		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5010.00	Vertical	-40.96	-25.00	Pass
7515.00	V	-36.63		
10020.00	V	-36.26		
5010.00	Horizontal	-38.67		
7515.00	H	-37.64		
10020.00	H	-36.59		
Middle				
5070.00	Vertical	-38.32	-25.00	Pass
7605.00	V	-33.86		
10140.00	V	-34.52		
5070.00	Horizontal	-42.44		
7605.00	H	-40.26		
10140.00	H	-38.16		
Highest				
5130.00	Vertical	-40.72	-25.00	Pass
7695.00	V	-36.79		
10260.00	V	-35.21		
5130.00	Horizontal	-40.26		
7695.00	H	-35.67		
10260.00	H	-34.79		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5015.00	Vertical	-36.24	-25.00	Pass
7522.50	V	-36.52		
10030.00	V	-34.51		
5015.00	Horizontal	-35.03		
7522.50	H	-37.52		
10030.00	H	-33.76		
Middle				
5070.00	Vertical	-34.67	-25.00	Pass
7605.00	V	-35.16		
10140.00	V	-34.48		
5070.00	Horizontal	-36.12		
7605.00	H	-35.48		
10140.00	H	-35.36		
Highest				
5125.00	Vertical	-36.17	-25.00	Pass
7687.50	V	-32.49		
10250.00	V	-34.26		
5125.00	Horizontal	-34.56		
7687.50	H	-29.26		
10250.00	H	-32.04		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5020.00	Vertical	-40.94	-25.00	Pass
7530.00	V	-36.62		
10040.00	V	-36.20		
5020.00	Horizontal	-38.69		
7530.00	H	-37.59		
10040.00	H	-36.55		
Middle				
5070.00	Vertical	-38.29	-25.00	Pass
7605.00	V	-33.83		
10140.00	V	-34.47		
5070.00	Horizontal	-42.40		
7605.00	H	-40.24		
10140.00	H	-38.11		
Highest				
5120.00	Vertical	-40.70	-25.00	Pass
7680.00	V	-36.77		
10240.00	V	-35.24		
5120.00	Horizontal	-40.27		
7680.00	H	-35.66		
10240.00	H	-34.75		

LTE Band 12 Part:

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

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1399.40	Vertical	-49.22	-13	Pass
2099.10	V	-38.46		
2798.80	V	-50.61		
1399.40	Horizontal	-51.66		
2099.10	H	-46.10		
2798.80	H	-49.96		
Middle				
1415.00	Vertical	-50.13	-13	Pass
2122.50	V	-36.91		
2830.00	V	-49.92		
1415.00	Horizontal	-50.42		
2122.50	H	-43.84		
2830.00	H	-51.41		
Highest				
1430.60	Vertical	-50.49	-13	Pass
2145.90	V	-38.84		
2861.20	V	-50.81		
1430.60	Horizontal	-52.05		
2145.90	H	-42.12		
2861.20	H	-50.64		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1401.00	Vertical	-56.53	-13	Pass
2101.50	V	-49.12		
2802.00	V	-52.83		
1401.00	Horizontal	-56.84		
2101.50	H	-54.62		
2802.00	H	-54.93		
Middle				
1415.00	Vertical	-56.72	-13	Pass
2122.50	V	-48.13		
2830.00	V	-52.49		
1415.00	Horizontal	-55.76		
2122.50	H	-52.03		
2830.00	H	-56.50		
Highest				
1429.00	Vertical	-55.42	-13	Pass
2143.50	V	-46.19		
2858.00	V	-52.03		
1429.00	Horizontal	-54.94		
2143.50	H	-51.38		
2858.00	H	-52.21		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1403.00	Vertical	-49.24	-13	Pass
2104.50	V	-38.49		
2806.00	V	-50.56		
1403.00	Horizontal	-51.62		
2104.50	H	-46.13		
2806.00	H	-49.93		
Middle				
1415.00	Vertical	-50.14	-13	Pass
2122.50	V	-36.92		
2830.00	V	-49.93		
1415.00	Horizontal	-50.46		
2122.50	H	-43.86		
2830.00	H	-51.43		
Highest				
1427.00	Vertical	-50.52	-13	Pass
2410.50	V	-38.81		
2854.00	V	-50.83		
1427.00	Horizontal	-52.06		
2410.50	H	-42.16		
2854.00	H	-50.67		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1408.00	Vertical	-56.52	-13	Pass
2112.00	V	-49.08		
2816.00	V	-52.81		
1408.00	Horizontal	-56.81		
2112.00	H	-54.59		
2816.00	H	-51.89		
Middle				
1415.00	Vertical	-56.68	-13	Pass
2122.50	V	-48.08		
2830.00	V	-52.45		
1415.00	Horizontal	-55.79		
2122.50	H	-52.04		
2830.00	H	-56.51		
Highest				
1422.00	Vertical	-55.38	-13	Pass
2133.00	V	-46.16		
2844.00	V	-52.04		
1422.00	Horizontal	-54.98		
2133.00	H	-51.36		
2844.00	H	-52.18		

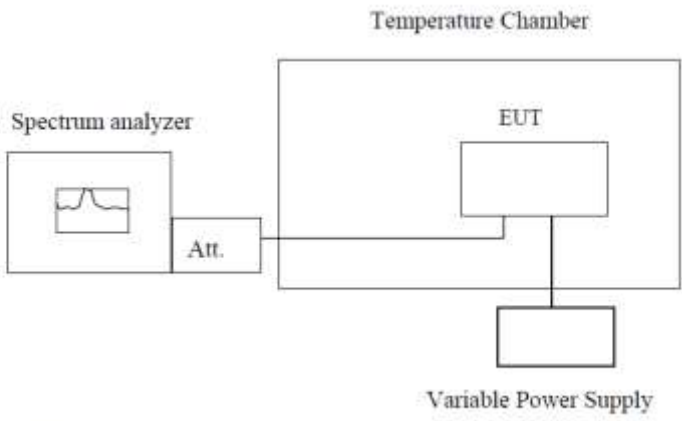
LTE Band 17 Part:

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

Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1413.00	Vertical	-53.10	-13.00	Pass
2119.50	V	-47.77		
2826.00	V	-51.54		
1413.00	Horizontal	-54.48		
2119.50	H	-51.81		
2826.00	H	-51.82		
Middle				
1420.00	Vertical	-53.05	-13.00	Pass
2130.00	V	-44.45		
2840.00	V	-51.06		
1420.00	Horizontal	-56.41		
2130.00	H	-48.44		
2840.00	H	-51.74		
Highest				
1427.00	Vertical	-53.49	-13.00	Pass
2140.50	V	-45.91		
2854.00	V	-51.32		
1427.00	Horizontal	-55.97		
2140.50	H	-48.45		
2854.00	H	-50.76		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1418.00	Vertical	-53.02	-13.00	Pass
2127.00	V	-45.69		
2836.00	V	-50.27		
1418.00	Horizontal	-57.37		
2127.00	H	-49.76		
2836.00	H	-53.07		
Middle				
1420.00	Vertical	-54.84	-13.00	Pass
2130.00	V	-46.12		
2840.00	V	-51.83		
1420.00	Horizontal	-57.29		
2130.00	H	-49.44		
2840.00	H	-51.30		
Highest				
1422.00	Vertical	-54.01	-13.00	Pass
2133.00	V	-48.29		
2844.00	V	-51.66		
1422.00	Horizontal	-57.14		
2133.00	H	-51.68		
2844.00	H	-51.75		

6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(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	188	0.100000	±2.5	Pass
	-20	163	0.086702		
	-10	124	0.065957		
	0	106	0.056383		
	10	137	0.072872		
	20	149	0.079255		
	30	156	0.082979		
	40	137	0.072872		
	50	133	0.070745		
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	170	0.090426		
	-10	135	0.071809		
	0	146	0.077660		
	10	160	0.085106		
	20	174	0.092553		
	30	105	0.055851		
	40	122	0.064894		
	50	159	0.084574		
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	136	0.072340	±2.5	Pass
	-20	147	0.078191		
	-10	108	0.057447		
	0	129	0.068617		
	10	160	0.085106		
	20	133	0.070745		
	30	156	0.082979		
	40	170	0.090426		
	50	180	0.095745		

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	167	0.088830	±2.5	Pass
	-20	145	0.077128		
	-10	138	0.073404		
	0	122	0.064894		
	10	156	0.082979		
	20	128	0.068085		
	30	174	0.092553		
	40	179	0.095213		
	50	166	0.088298		
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	177	0.094149	±2.5	Pass
	-20	163	0.086702		
	-10	158	0.084043		
	0	152	0.080851		
	10	141	0.075000		
	20	150	0.079787		
	30	130	0.069149		
	40	126	0.067021		
	50	156	0.082979		
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	177	0.094149	±2.5	Pass
	-20	163	0.086702		
	-10	108	0.057447		
	0	152	0.080851		
	10	145	0.077128		
	20	166	0.088298		
	30	108	0.057447		
	40	136	0.072340		
	50	127	0.067553		

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	138	0.073404	±2.5	Pass
	-20	127	0.067553		
	-10	116	0.061702		
	0	109	0.057979		
	10	122	0.064894		
	20	120	0.063830		
	30	103	0.054787		
	40	118	0.062766		
	50	114	0.060638		
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	178	0.094681		
	-10	166	0.088298		
	0	174	0.092553		
	10	105	0.055851		
	20	128	0.068085		
	30	146	0.07766		
	40	190	0.101064		
	50	155	0.082447		
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	166	0.088298	±2.5	Pass
	-20	130	0.069149		
	-10	128	0.068085		
	0	154	0.081915		
	10	150	0.079787		
	20	126	0.067021		
	30	149	0.079255		
	40	167	0.088830		
	50	156	0.082979		

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	163	0.086702	±2.5	Pass
	-20	185	0.098404		
	-10	174	0.092553		
	0	126	0.067021		
	10	152	0.080851		
	20	144	0.076596		
	30	136	0.072340		
	40	128	0.068085		
	50	126	0.067021		
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	152	0.080851	±2.5	Pass
	-20	136	0.072340		
	-10	140	0.074468		
	0	133	0.070745		
	10	128	0.068085		
	20	150	0.079787		
	30	147	0.078191		
	40	146	0.077660		
	50	123	0.065426		
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	167	0.088830	±2.5	Pass
	-20	152	0.080851		
	-10	150	0.079787		
	0	144	0.076596		
	10	138	0.073404		
	20	132	0.070213		
	30	109	0.057979		
	40	126	0.067021		
	50	128	0.068085		

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	175	0.101010	±2.5	Pass
	-20	160	0.092352		
	-10	124	0.071573		
	0	105	0.060606		
	10	133	0.076768		
	20	126	0.072727		
	30	145	0.083694		
	40	146	0.084271		
	50	107	0.061760		
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	169	0.097547	±2.5	Pass
	-20	178	0.102742		
	-10	125	0.072150		
	0	136	0.078499		
	10	146	0.084271		
	20	155	0.089466		
	30	128	0.073882		
	40	126	0.072727		
	50	105	0.060606		
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	170	0.098124	±2.5	Pass
	-20	136	0.078499		
	-10	125	0.072150		
	0	126	0.072727		
	10	142	0.081962		
	20	103	0.059452		
	30	101	0.058297		
	40	125	0.072150		
	50	156	0.090043		

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	163	0.094084	±2.5	Pass
	-20	128	0.073882		
	-10	174	0.100433		
	0	180	0.103896		
	10	126	0.072727		
	20	108	0.062338		
	30	126	0.072727		
	40	123	0.070996		
	50	120	0.069264		
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	174	0.100433	±2.5	Pass
	-20	163	0.094084		
	-10	152	0.087734		
	0	126	0.072727		
	10	137	0.079076		
	20	159	0.091775		
	30	128	0.073882		
	40	166	0.095815		
	50	108	0.062338		
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	175	0.101010	±2.5	Pass
	-20	163	0.094084		
	-10	152	0.087734		
	0	146	0.084271		
	10	130	0.075036		
	20	128	0.073882		
	30	160	0.092352		
	40	159	0.091775		
	50	128	0.073882		

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	174	0.100433	±2.5	Pass
	-20	162	0.093506		
	-10	105	0.060606		
	0	123	0.070996		
	10	155	0.089466		
	20	162	0.093506		
	30	106	0.061183		
	40	127	0.073304		
	50	136	0.078499		
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	187	0.107937	±2.5	Pass
	-20	156	0.090043		
	-10	156	0.090043		
	0	141	0.081385		
	10	136	0.078499		
	20	105	0.060606		
	30	126	0.072727		
	40	147	0.084848		
	50	126	0.072727		
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	166	0.095815	±2.5	Pass
	-20	145	0.083694		
	-10	103	0.059452		
	0	126	0.072727		
	10	147	0.084848		
	20	146	0.084271		
	30	108	0.062338		
	40	129	0.074459		
	50	136	0.078499		

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	177	0.102165	±2.5	Pass
	-20	156	0.090043		
	-10	126	0.072727		
	0	185	0.106782		
	10	163	0.094084		
	20	174	0.100433		
	30	166	0.095815		
	40	123	0.070996		
	50	127	0.073304		
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	178	0.102742	±2.5	Pass
	-20	152	0.087734		
	-10	163	0.094084		
	0	102	0.058874		
	10	145	0.083694		
	20	106	0.061183		
	30	125	0.072150		
	40	134	0.077345		
	50	160	0.092352		
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	147	0.084848	±2.5	Pass
	-20	162	0.093506		
	-10	105	0.060606		
	0	136	0.078499		
	10	146	0.084271		
	20	157	0.090620		
	30	149	0.086003		
	40	155	0.089466		
	50	129	0.074459		

LTE Band 7(QPSK):

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	190	0.074951	±2.5	Pass
	-20	126	0.049704		
	-10	135	0.053254		
	0	146	0.057594		
	10	174	0.068639		
	20	177	0.069822		
	30	125	0.049310		
	40	120	0.047337		
	50	130	0.051282		
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	162	0.063905	±2.5	Pass
	-20	158	0.062327		
	-10	174	0.068639		
	0	170	0.067061		
	10	136	0.053649		
	20	133	0.052465		
	30	152	0.059961		
	40	159	0.062722		
	50	168	0.066272		
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	136	0.053649	±2.5	Pass
	-20	168	0.066272		
	-10	107	0.042209		
	0	159	0.062722		
	10	185	0.072978		
	20	180	0.071006		
	30	126	0.049704		
	40	147	0.057988		
	50	136	0.053649		
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	152	0.059961	±2.5	Pass
	-20	146	0.057594		
	-10	166	0.065483		
	0	167	0.065878		
	10	152	0.059961		
	20	136	0.053649		
	30	190	0.074951		
	40	158	0.062327		
	50	126	0.049704		

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	147	0.057988	±2.5	Pass
	-20	146	0.057594		
	-10	152	0.059961		
	0	136	0.053649		
	10	155	0.061144		
	20	142	0.056016		
	30	140	0.055227		
	40	126	0.049704		
	50	126	0.049704		
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	174	0.068639	±2.5	Pass
	-20	163	0.064300		
	-10	158	0.062327		
	0	128	0.050493		
	10	106	0.041815		
	20	185	0.072978		
	30	174	0.068639		
	40	156	0.061538		
	50	163	0.064300		
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	147	0.057988	2.5	Pass
	-20	163	0.064300		
	-10	160	0.063116		
	0	155	0.061144		
	10	128	0.050493		
	20	146	0.057594		
	30	108	0.042604		
	40	136	0.053649		
	50	125	0.049310		
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	132	0.052071	2.5	Pass
	-20	105	0.041420		
	-10	126	0.049704		
	0	142	0.056016		
	10	108	0.042604		
	20	133	0.052465		
	30	128	0.050493		
	40	159	0.062722		
	50	147	0.057988		

LTE Band 12(QPSK):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	126	0.178092	±2.5	Pass
	-20	102	0.144170		
	-10	114	0.161131		
	0	106	0.149823		
	10	103	0.145583		
	20	115	0.162544		
	30	120	0.169611		
	40	122	0.172438		
	50	109	0.154064		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	142	0.200707	±2.5	Pass
	-20	136	0.192226		
	-10	158	0.223322		
	0	155	0.219081		
	10	192	0.271378		
	20	163	0.230389		
	30	137	0.193640		
	40	125	0.176678		
	50	126	0.178092		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	142	0.200707	±2.5	Pass
	-20	120	0.169611		
	-10	136	0.192226		
	0	152	0.214841		
	10	150	0.212014		
	20	144	0.203534		
	30	146	0.206360		
	40	128	0.180919		
	50	160	0.226148		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	157	0.221908	±2.5	Pass
	-20	156	0.220495		
	-10	120	0.169611		
	0	120	0.169611		
	10	136	0.192226		
	20	148	0.209187		
	30	177	0.250177		
	40	179	0.253004		
	50	169	0.238869		

LTE Band 12(16QAM):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	156	0.220495	±2.5	Pass
	-20	174	0.245936		
	-10	103	0.145583		
	0	152	0.214841		
	10	160	0.226148		
	20	124	0.175265		
	30	126	0.178092		
	40	174	0.245936		
50	152	0.214841			
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	169	0.238869	±2.5	Pass
	-20	166	0.234629		
	-10	178	0.251590		
	0	179	0.253004		
	10	150	0.212014		
	20	136	0.192226		
	30	125	0.176678		
	40	142	0.200707		
50	156	0.220495			
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	174	0.245936	2.5	Pass
	-20	155	0.219081		
	-10	163	0.230389		
	0	185	0.261484		
	10	180	0.254417		
	20	147	0.207774		
	30	125	0.176678		
	40	128	0.180919		
50	180	0.254417			
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	147	0.207774	2.5	Pass
	-20	163	0.230389		
	-10	125	0.176678		
	0	145	0.204947		
	10	185	0.261484		
	20	180	0.254417		
	30	115	0.162544		
	40	126	0.178092		
50	137	0.193640			

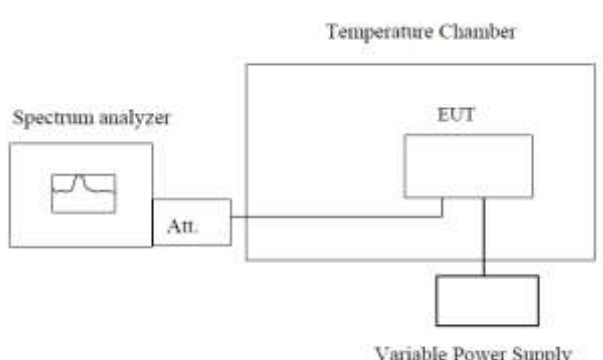
LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	167	0.235211	±2.5	Pass
	-20	105	0.147887		
	-10	123	0.173239		
	0	133	0.187324		
	10	114	0.160563		
	20	105	0.147887		
	30	122	0.171831		
	40	130	0.183099		
	50	152	0.214085		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	185	0.260563	±2.5	Pass
	-20	166	0.233803		
	-10	174	0.245070		
	0	170	0.239437		
	10	152	0.214085		
	20	152	0.214085		
	30	163	0.229577		
	40	152	0.214085		
	50	148	0.208451		

LTE Band 17(16QAM):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	166	0.233803	±2.5	Pass
	-20	199	0.280282		
	-10	163	0.229577		
	0	174	0.245070		
	10	152	0.214085		
	20	162	0.228169		
	30	152	0.214085		
	40	133	0.187324		
	50	124	0.174648		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	126	0.177465	±2.5	Pass
	-20	124	0.174648		
	-10	105	0.147887		
	0	136	0.191549		
	10	152	0.214085		
	20	120	0.169014		
	30	130	0.183099		
	40	124	0.174648		
	50	155	0.218310		

6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(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	4.37	63	0.033511	±2.5	Pass
	3.80	74	0.039362		
	3.23	89	0.047340		
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	4.37	99	0.052660	±2.5	Pass
	3.80	75	0.039894		
	3.23	80	0.042553		
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	4.37	63	0.033511	±2.5	Pass
	3.80	66	0.035106		
	3.23	50	0.026596		
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	4.37	89	0.047340	±2.5	Pass
	3.80	74	0.039362		
	3.23	77	0.040957		
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	4.37	85	0.045213	±2.5	Pass
	3.80	55	0.029255		
	3.23	90	0.047872		
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	4.37	85	0.045213	±2.5	Pass
	3.80	74	0.039362		
	3.23	71	0.037766		

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	4.37	74	0.039362	±2.5	Pass
	3.80	88	0.046809		
	3.23	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	4.37	90	0.047872	±2.5	Pass
	3.80	74	0.039362		
	3.23	70	0.037234		
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	4.37	66	0.035106	±2.5	Pass
	3.80	85	0.045213		
	3.23	94	0.050000		
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	4.37	63	0.033511	±2.5	Pass
	3.80	85	0.045213		
	3.23	74	0.039362		
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	4.37	89	0.047340	±2.5	Pass
	3.80	82	0.043617		
	3.23	74	0.039362		
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	4.37	90	0.047872	±2.5	Pass
	3.80	66	0.035106		
	3.23	57	0.030319		

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	4.37	74	0.042713	±2.5	Pass
	3.80	80	0.046176		
	3.23	66	0.038095		
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	4.37	85	0.049062	±2.5	Pass
	3.80	74	0.042713		
	3.23	63	0.036364		
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	4.37	81	0.046753	±2.5	Pass
	3.80	47	0.027128		
	3.23	66	0.038095		
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	4.37	85	0.049062	±2.5	Pass
	3.80	66	0.038095		
	3.23	74	0.042713		
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	4.37	80	0.046176	±2.5	Pass
	3.80	63	0.036364		
	3.23	55	0.031746		
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	4.37	78	0.045022	±2.5	Pass
	3.80	78	0.045022		
	3.23	55	0.031746		

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	4.37	63	0.036364	±2.5	Pass
	3.80	85	0.049062		
	3.23	74	0.042713		
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	4.37	90	0.051948	±2.5	Pass
	3.80	82	0.047330		
	3.23	74	0.042713		
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	4.37	50	0.028860	±2.5	Pass
	3.80	66	0.038095		
	3.23	42	0.024242		
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	4.37	74	0.042713	±2.5	Pass
	3.80	60	0.034632		
	3.23	52	0.030014		
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	4.37	89	0.051371	±2.5	Pass
	3.80	88	0.050794		
	3.23	67	0.038672		
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	4.37	80	0.046176	±2.5	Pass
	3.80	76	0.043867		
	3.23	99	0.057143		

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	4.37	36	0.014201	±2.5	Pass
	3.80	66	0.026036		
	3.23	74	0.029191		
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	4.37	78	0.030769	±2.5	Pass
	3.80	89	0.035108		
	3.23	52	0.020513		
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	4.37	67	0.026430	±2.5	Pass
	3.80	74	0.029191		
	3.23	79	0.031164		
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	4.37	58	0.022880	±2.5	Pass
	3.80	67	0.026430		
	3.23	90	0.035503		

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	4.37	70	0.027613	±2.5	Pass
	3.80	52	0.020513		
	3.23	66	0.026036		
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	4.37	87	0.034320	±2.5	Pass
	3.80	85	0.033531		
	3.23	46	0.018146		
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	4.37	52	0.020513	±2.5	Pass
	3.80	63	0.024852		
	3.23	74	0.029191		
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	4.37	60	0.023669	±2.5	Pass
	3.80	74	0.029191		
	3.23	71	0.028008		

LTE Band 12(QPSK):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	72	0.101767	±2.5	Pass
	3.80	50	0.070671		
	3.23	63	0.089046		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	77	0.108834	±2.5	Pass
	3.80	72	0.101767		
	3.23	89	0.125795		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	90	0.127208	±2.5	Pass
	3.80	62	0.087633		
	3.23	33	0.046643		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	74	0.104594	±2.5	Pass
	3.80	80	0.113074		
	3.23	56	0.079152		

LTE Band 12(16QAM):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	88	0.124382	±2.5	Pass
	3.80	74	0.104594		
	3.23	90	0.127208		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	78	0.110247	±2.5	Pass
	3.80	69	0.097527		
	3.23	85	0.120141		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	96	0.135689	±2.5	Pass
	3.80	85	0.120141		
	3.23	74	0.104594		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	66	0.093286	±2.5	Pass
	3.80	38	0.053710		
	3.23	74	0.104594		

LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	89	0.125352	±2.5	Pass
	3.80	80	0.112676		
	3.23	74	0.104225		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	66	0.092958	±2.5	Pass
	3.80	82	0.115493		
	3.23	56	0.078873		

LTE Band 17(16QAM):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	78	0.109859	±2.5	Pass
	3.80	90	0.126761		
	3.23	85	0.119718		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	77	0.108451	±2.5	Pass
	3.80	90	0.126761		
	3.23	75	0.105634		