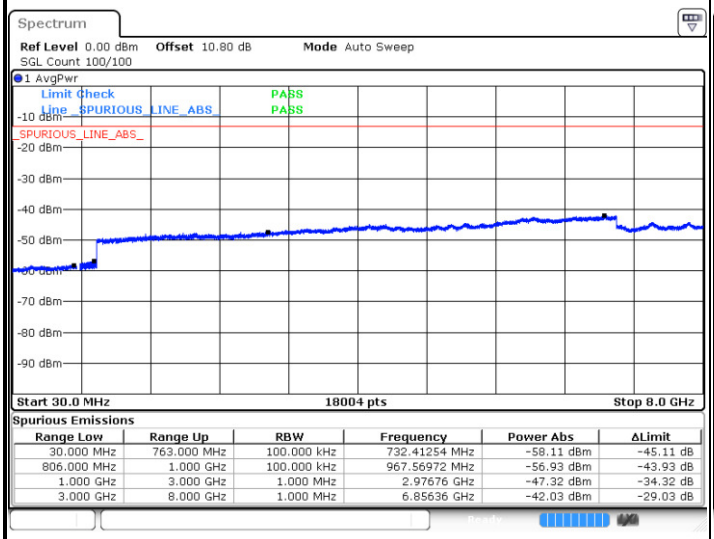
LTE Band 13 / 5MHz

Highest Channel / QPSK

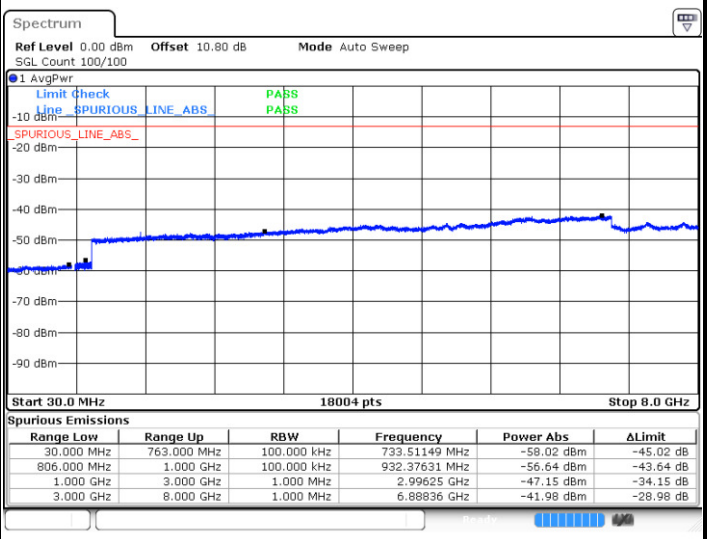


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	732.41254 MHz	-58.11 dBm	-45.11 dB
806.000 MHz	1.000 GHz	100.000 kHz	967.56972 MHz	-56.93 dBm	-43.93 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97676 GHz	-47.32 dBm	-34.32 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.85636 GHz	-42.03 dBm	-29.03 dB

Date: 16.FEB.2018 13:05:27

Highest Channel / 16QAM



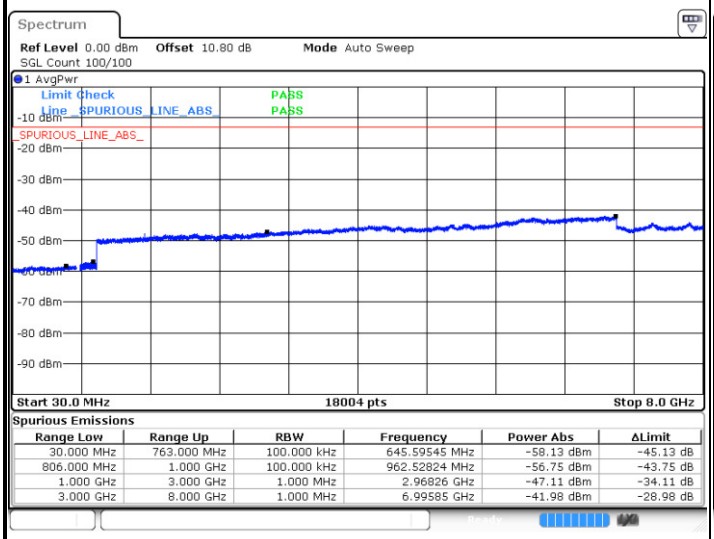
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	733.51149 MHz	-58.02 dBm	-45.02 dB
806.000 MHz	1.000 GHz	100.000 kHz	932.37631 MHz	-56.64 dBm	-43.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99625 GHz	-47.15 dBm	-34.15 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88836 GHz	-41.98 dBm	-28.98 dB

Date: 16.FEB.2018 13:06:21

LTE Band 13 / 10MHz

Middle Channel / QPSK

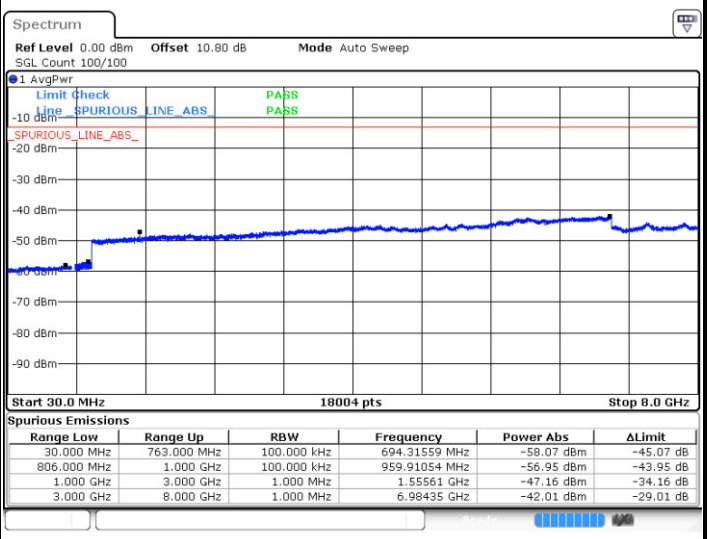


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	645.59545 MHz	-58.13 dBm	-45.13 dB
806.000 MHz	1.000 GHz	100.000 kHz	962.52824 MHz	-56.75 dBm	-43.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96826 GHz	-47.11 dBm	-34.11 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99585 GHz	-41.98 dBm	-28.98 dB

Date: 16.FEB.2018 13:28:40

Middle Channel / 16QAM



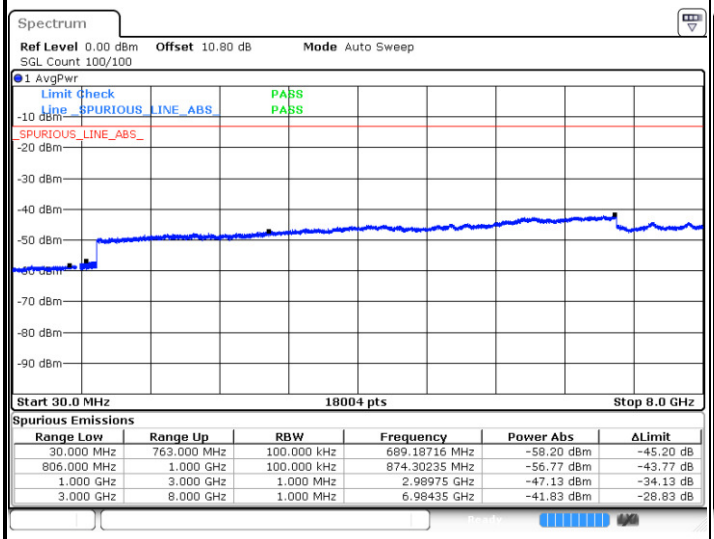
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	694.31559 MHz	-58.07 dBm	-45.07 dB
806.000 MHz	1.000 GHz	100.000 kHz	959.91054 MHz	-56.95 dBm	-43.95 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-47.16 dBm	-34.16 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.98435 GHz	-42.01 dBm	-29.01 dB

Date: 16.FEB.2018 13:27:47

LTE Band 13 / 5MHz

Lowest Channel / 64QAM

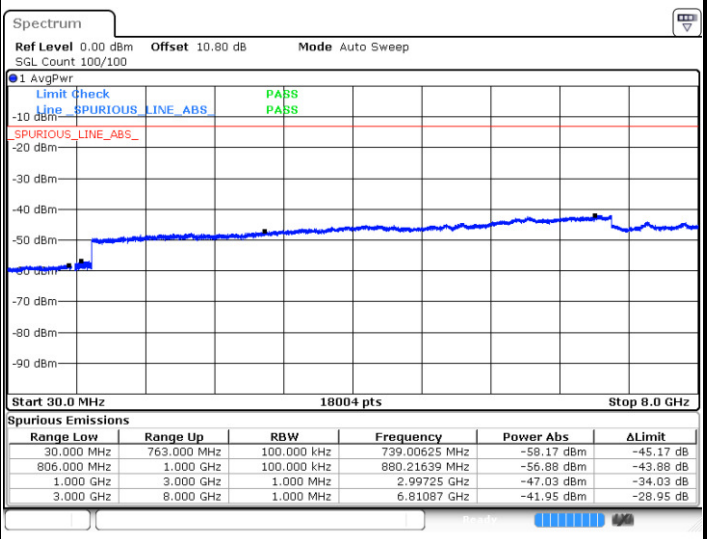


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	689.18716 MHz	-58.20 dBm	-45.20 dB
806.000 MHz	1.000 GHz	100.000 kHz	874.30235 MHz	-56.77 dBm	-43.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98975 GHz	-47.13 dBm	-34.13 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.98435 GHz	-41.83 dBm	-28.83 dB

Date: 16.FEB.2018 13:10:48

Middle Channel / 64QAM

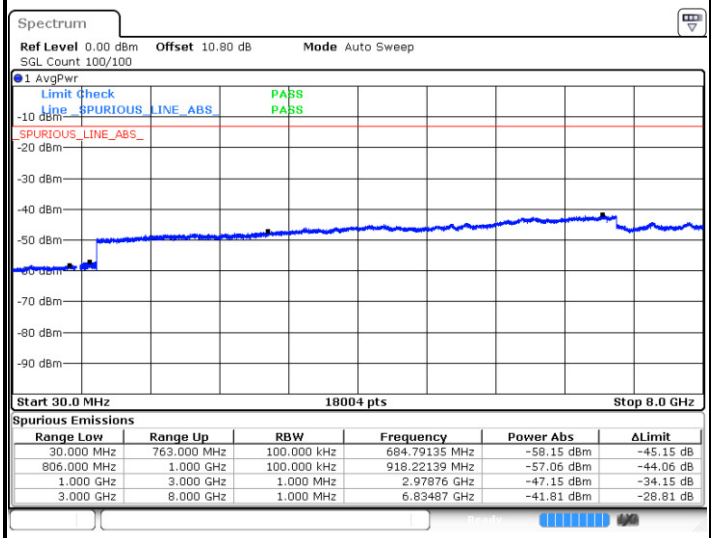


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	739.00625 MHz	-58.17 dBm	-45.17 dB
806.000 MHz	1.000 GHz	100.000 kHz	880.21639 MHz	-56.88 dBm	-43.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99725 GHz	-47.03 dBm	-34.03 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.81087 GHz	-41.95 dBm	-28.95 dB

Date: 16.FEB.2018 13:11:42

Highest Channel / 64QAM

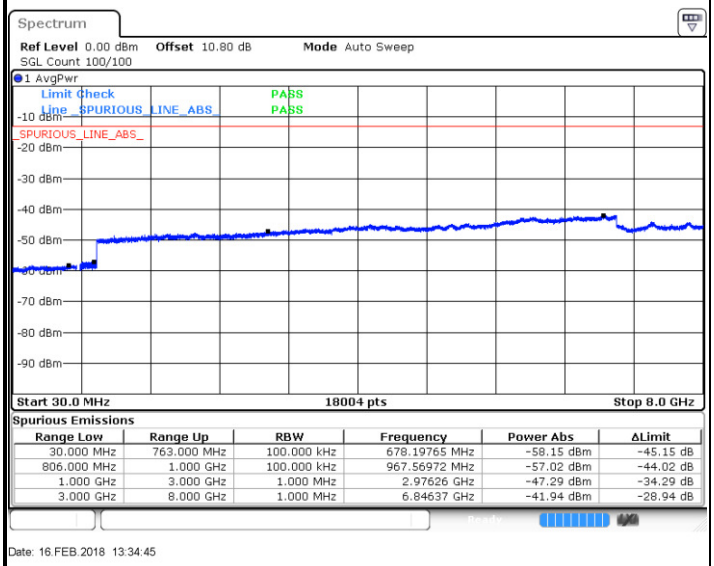


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	684.79135 MHz	-58.15 dBm	-45.15 dB
806.000 MHz	1.000 GHz	100.000 kHz	918.22139 MHz	-57.06 dBm	-44.06 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97876 GHz	-47.15 dBm	-34.15 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.83487 GHz	-41.81 dBm	-28.81 dB

Date: 16.FEB.2018 13:16:30

LTE Band 13 / 10MHz	
Middle Channel / 64QAM	



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	678.19765 MHz	-58.15 dBm	-45.15 dB
806.000 MHz	1.000 GHz	100.000 kHz	967.56972 MHz	-57.02 dBm	-44.02 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97626 GHz	-47.29 dBm	-34.29 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.84637 GHz	-41.94 dBm	-28.94 dB

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0054	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0137	
-20	Normal Voltage	0.0074	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0121	
20	Battery End Point	0.0047	

Note:

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

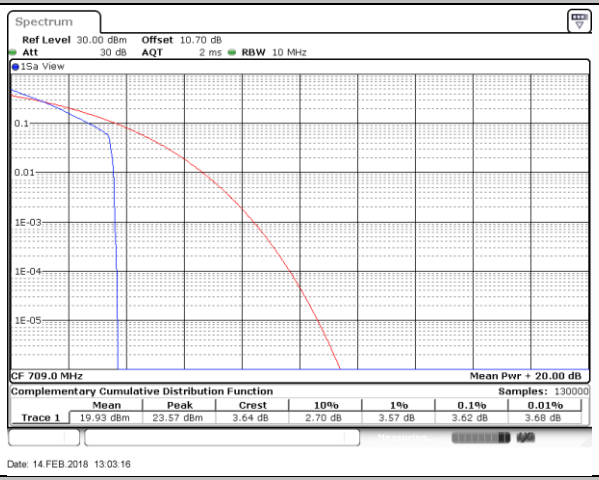
LTE Band 17

Peak-to-Average Ratio

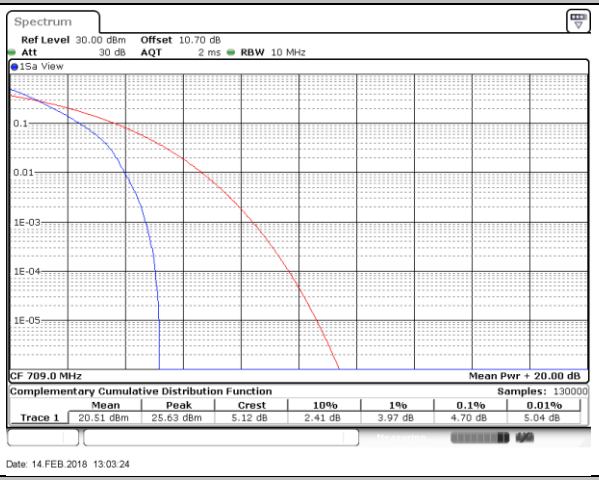
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.7	5.22	5.91	PASS
Middle CH	3.65	4.64	5.39	5.88	
Highest CH	3.59	4.67	5.3	5.91	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.81	6.55	-	-	PASS
Middle CH	6.87	6.41	-	-	
Highest CH	6.52	6.41	-	-	

LTE Band 17 / 10MHz / QPSK

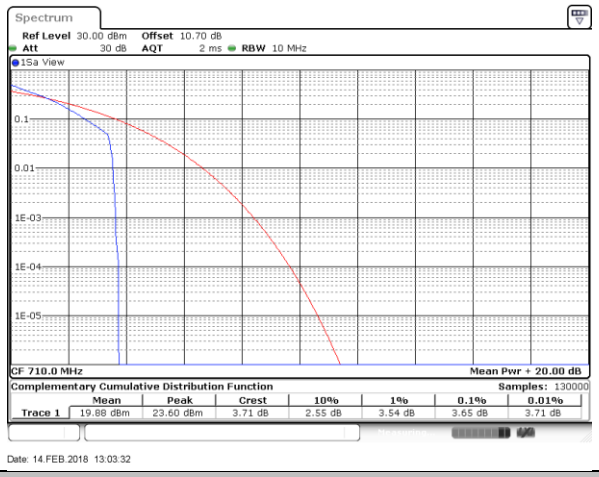
Lowest Channel / 1RB



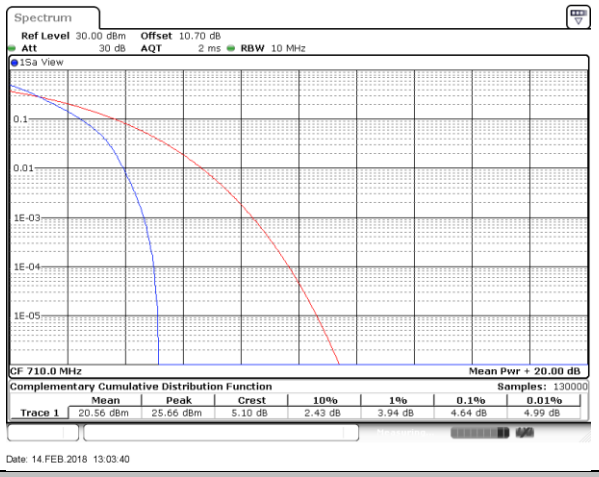
Lowest Channel / Full RB



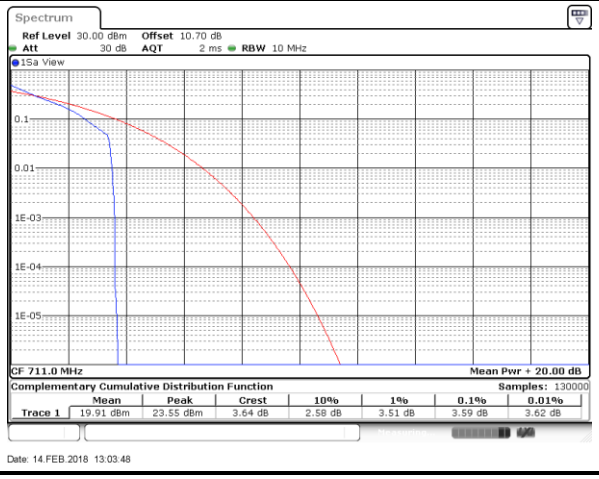
Middle Channel / 1RB



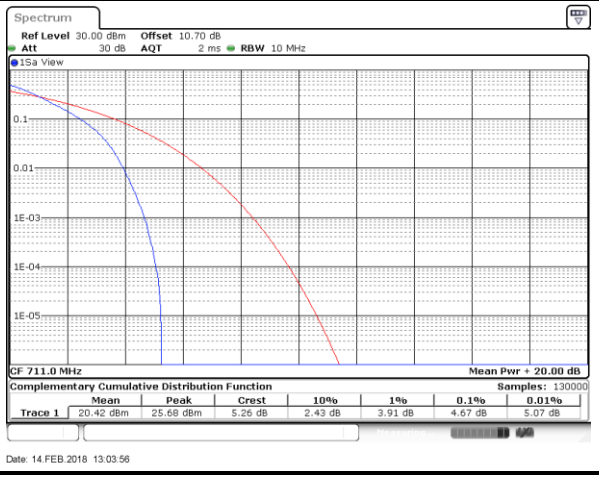
Middle Channel / Full RB



Highest Channel / 1RB

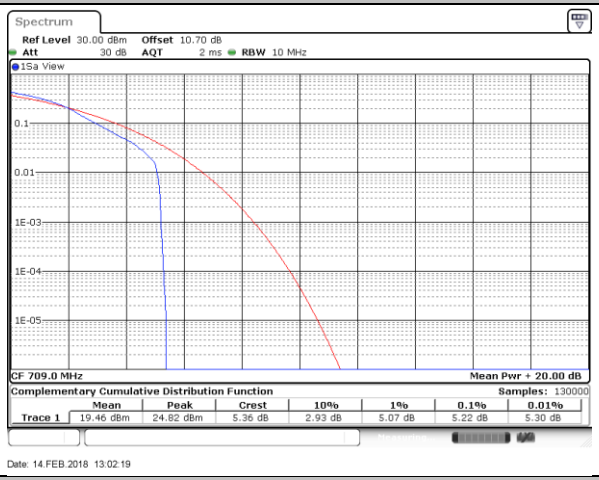


Highest Channel / Full RB



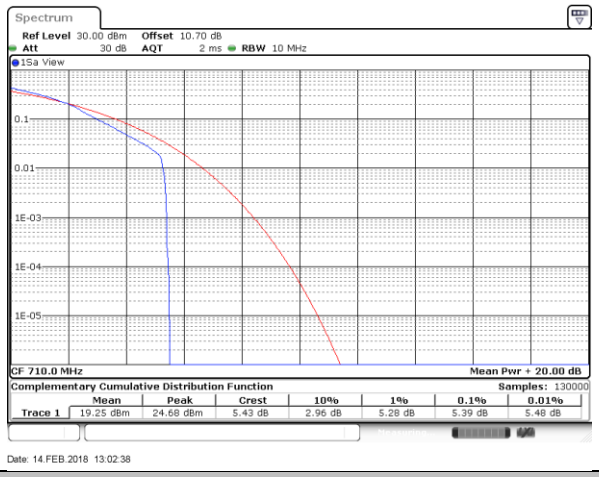
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB

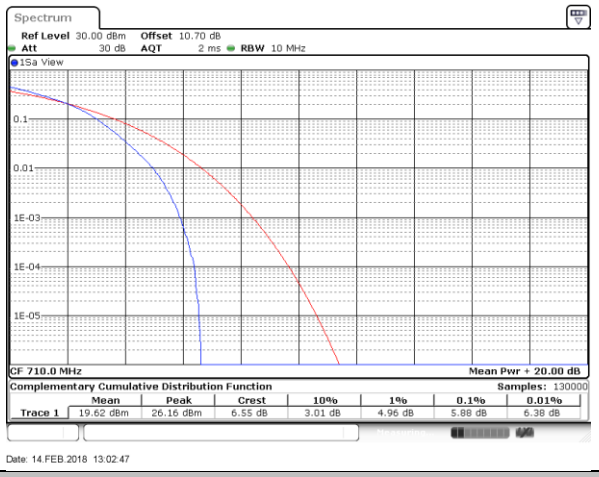


Lowest Channel / Full RB

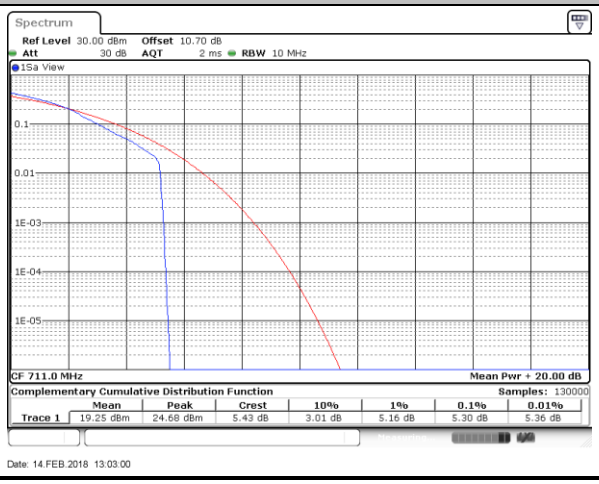
Middle Channel / 1RB



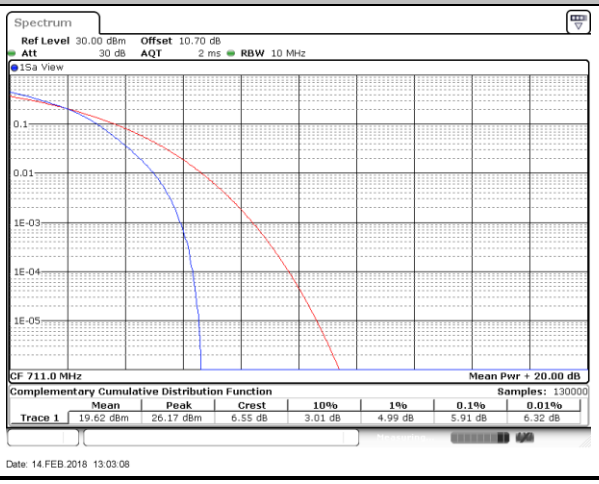
Middle Channel / Full RB



Highest Channel / 1RB

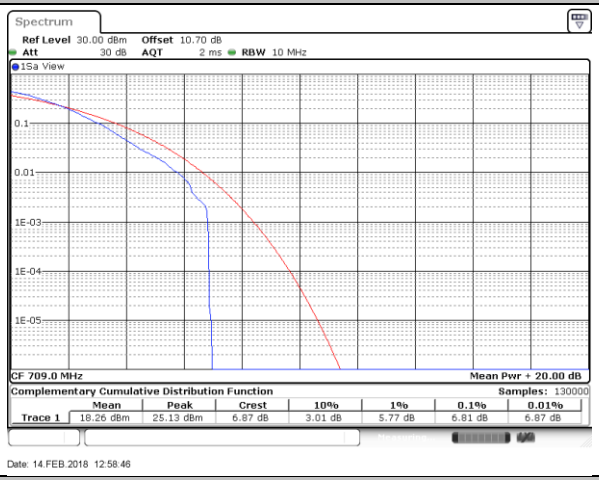


Highest Channel / Full RB

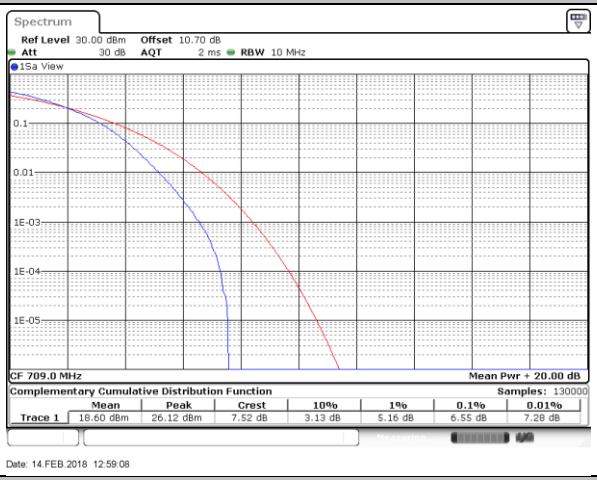


LTE Band 17 / 10MHz / 64QAM

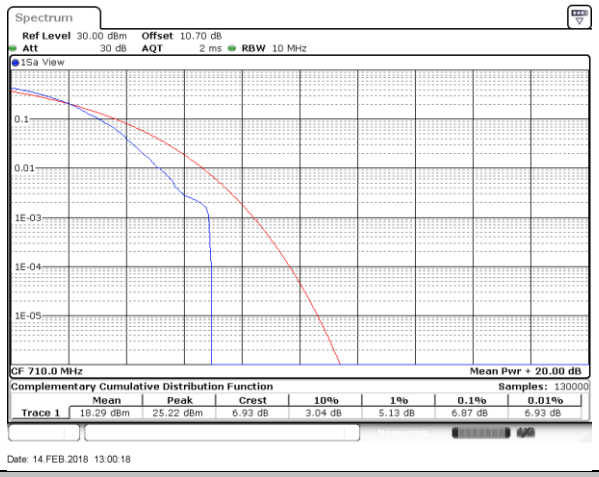
Lowest Channel / 1RB



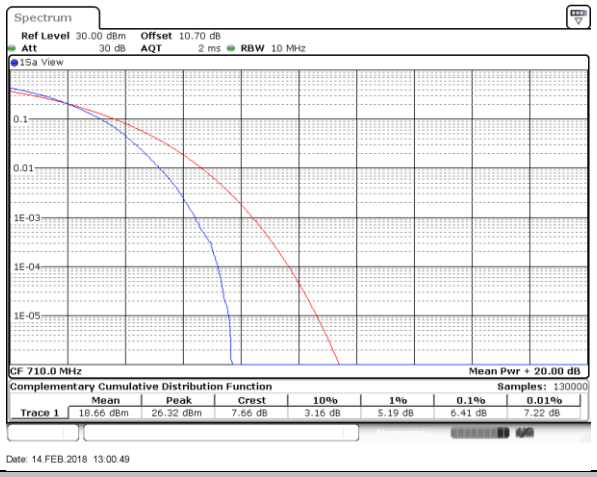
Lowest Channel / Full RB



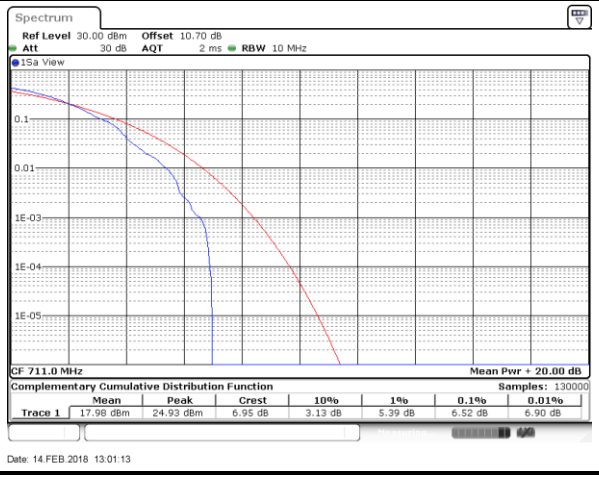
Middle Channel / 1RB



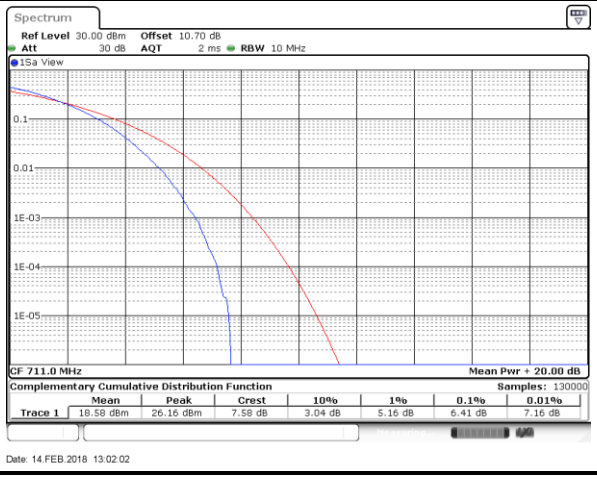
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

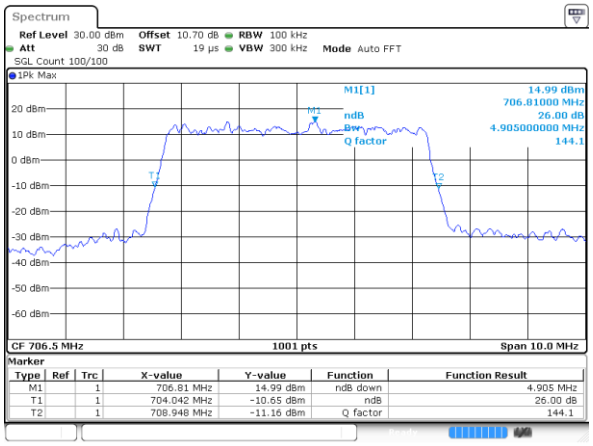


26dB Bandwidth

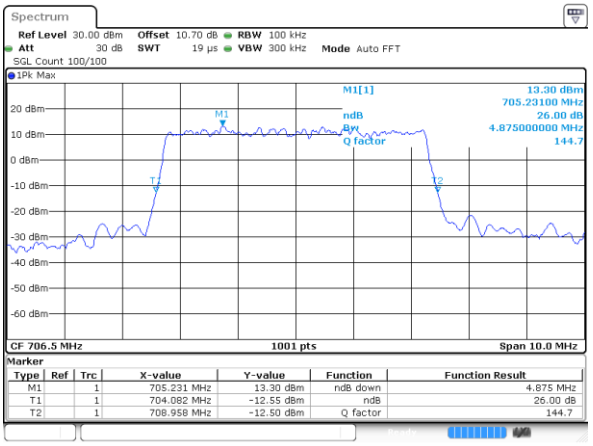
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.91	4.88	9.71	9.73	-	-	-	-
Middle CH	-	-	-	-	4.96	4.93	9.65	9.81	-	-	-	-
Highest CH	-	-	-	-	4.94	4.91	9.65	9.93	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.90	-	9.73	-	-	-	-	-
Middle CH	-	-	-	-	4.97	-	9.79	-	-	-	-	-
Highest CH	-	-	-	-	4.89	-	9.73	-	-	-	-	-

LTE Band 17

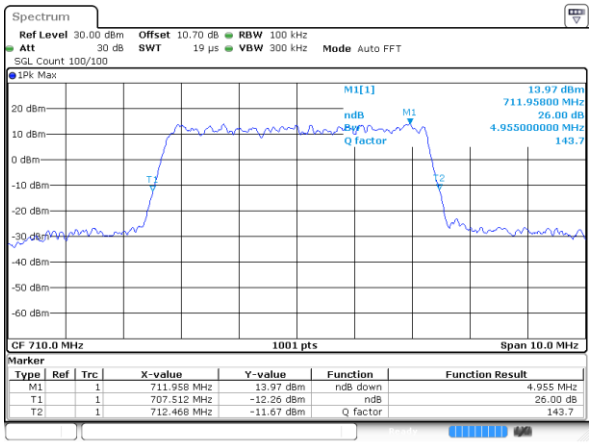
Lowest Channel / 5MHz / QPSK



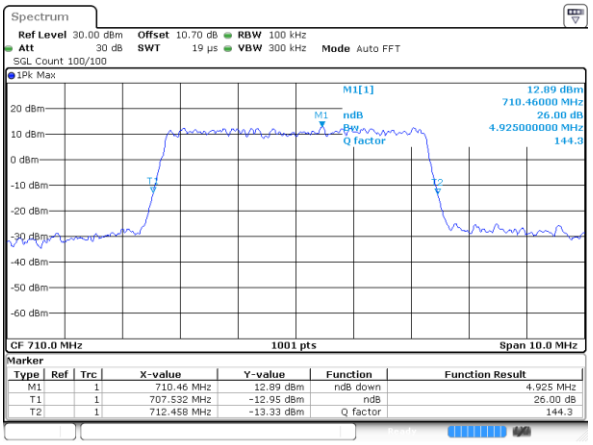
Lowest Channel / 5MHz / 16QAM



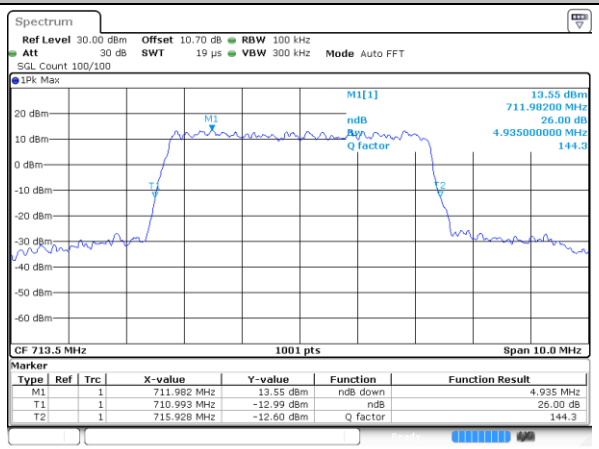
Middle Channel / 5MHz / QPSK



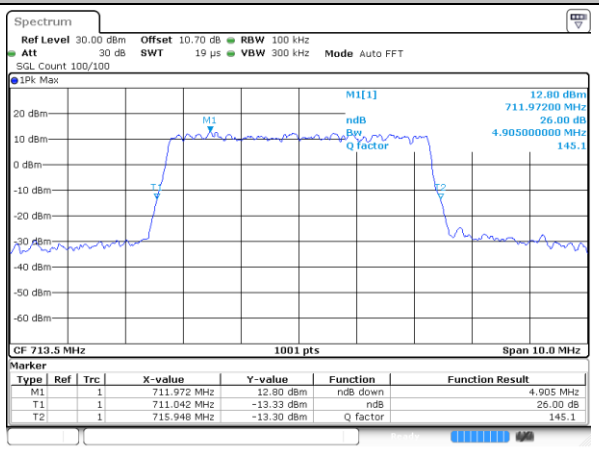
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

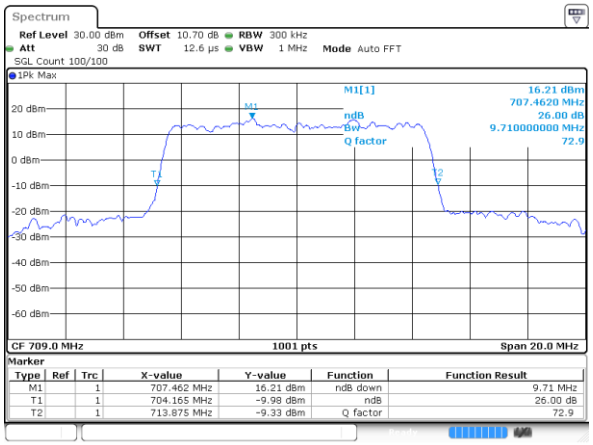


Highest Channel / 5MHz / 16QAM



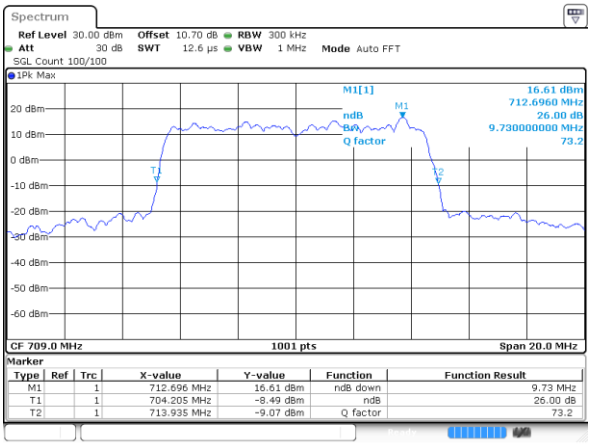
LTE Band 17

Lowest Channel / 10MHz / QPSK



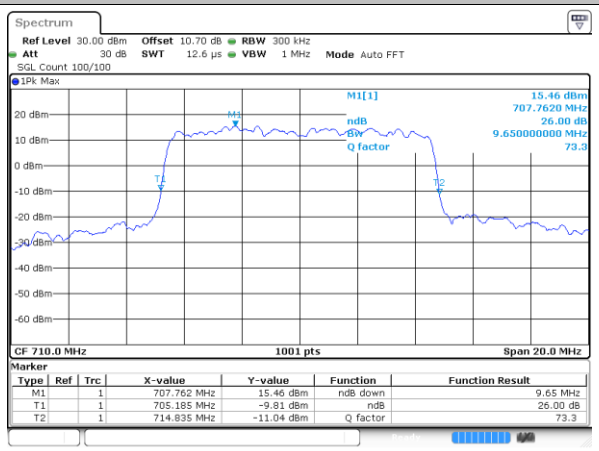
Date: 13.FEB.2018 18:15:19

Lowest Channel / 10MHz / 16QAM



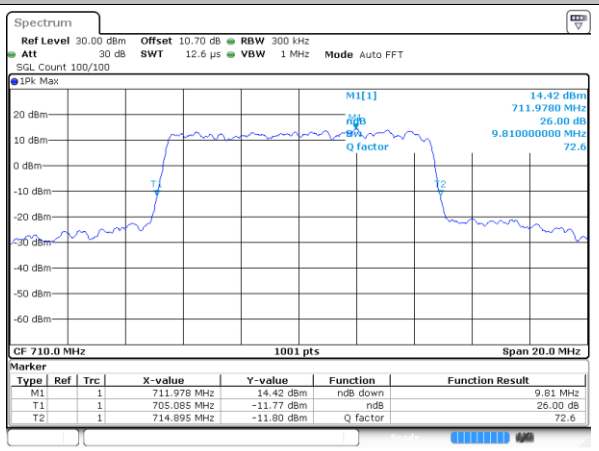
Date: 13.FEB.2018 18:15:29

Middle Channel / 10MHz / QPSK



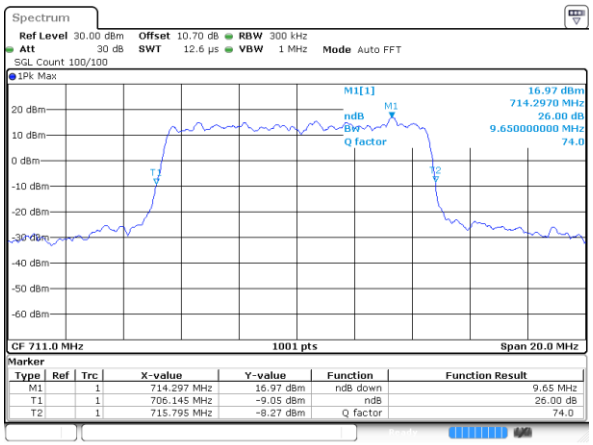
Date: 13.FEB.2018 18:22:15

Middle Channel / 10MHz / 16QAM



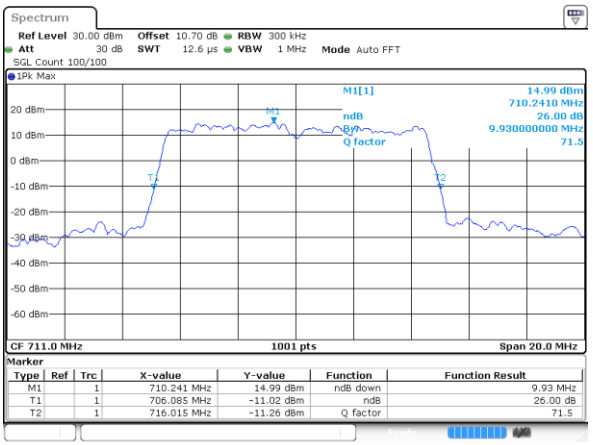
Date: 13.FEB.2018 18:22:24

Highest Channel / 10MHz / QPSK



Date: 13.FEB.2018 18:24:41

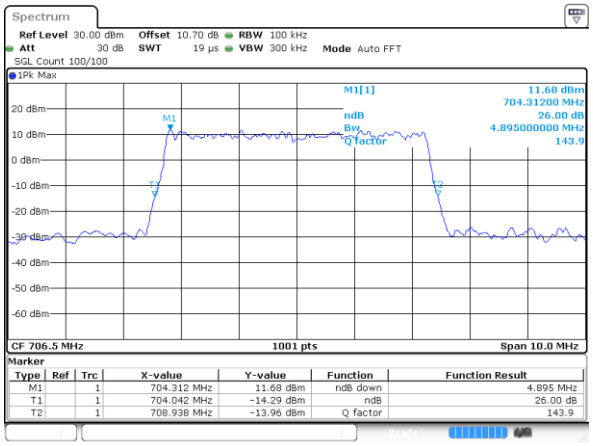
Highest Channel / 10MHz / 16QAM



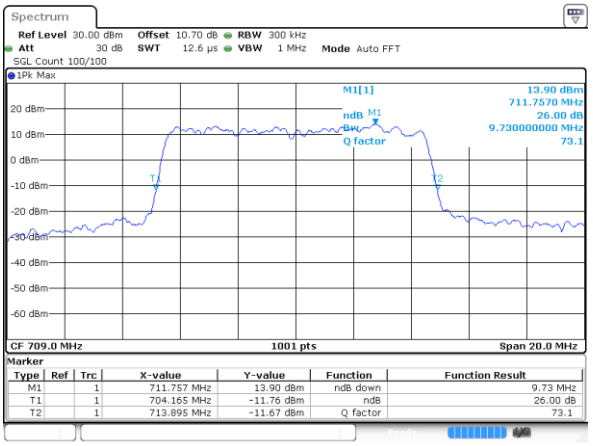
Date: 13.FEB.2018 18:24:51

LTE Band 17

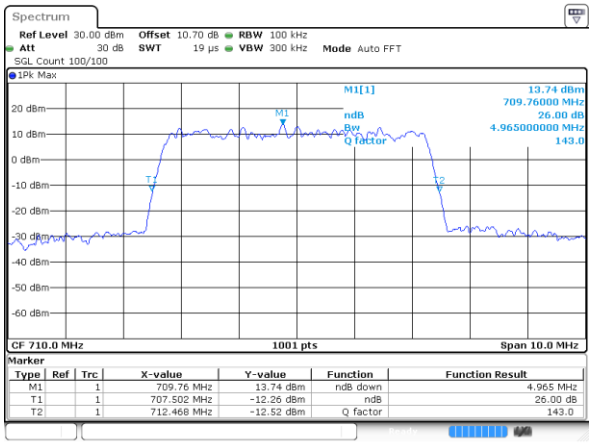
Lowest Channel / 5MHz / 64QAM



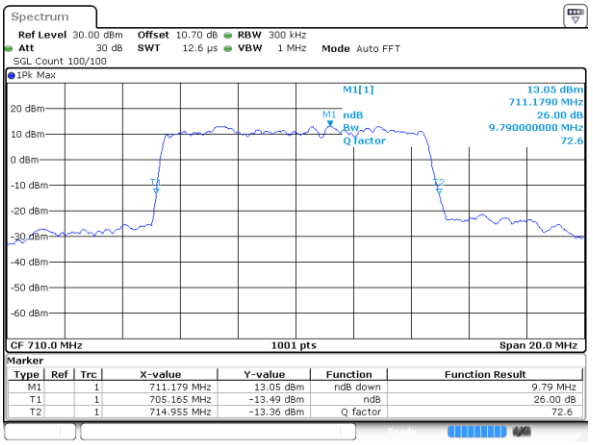
Lowest Channel / 10MHz / 64QAM



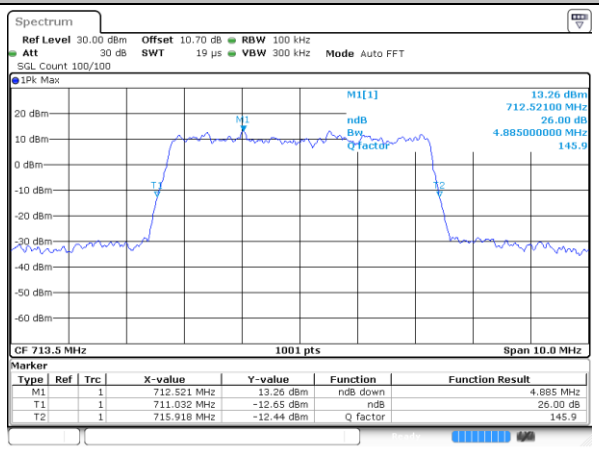
Middle Channel / 5MHz / 64QAM



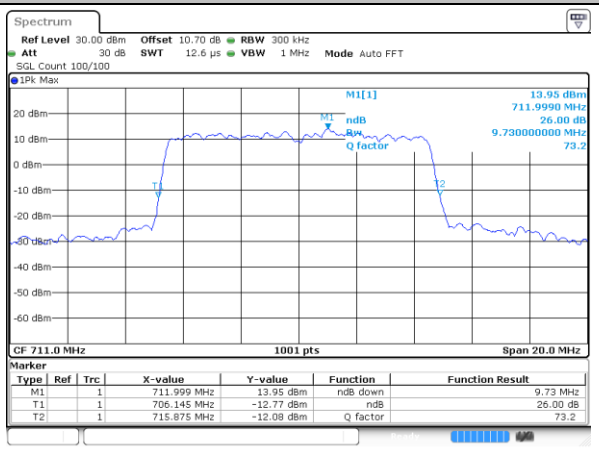
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

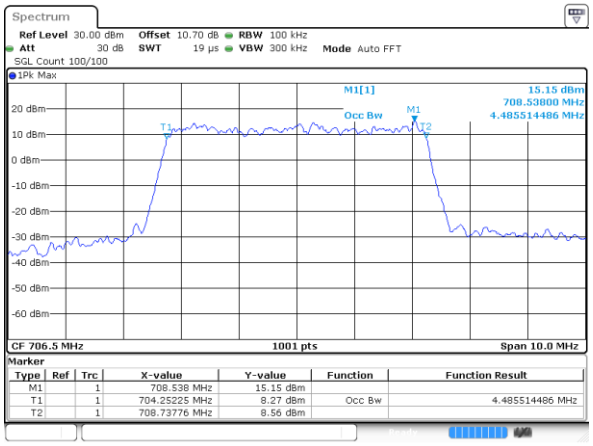


Occupied Bandwidth

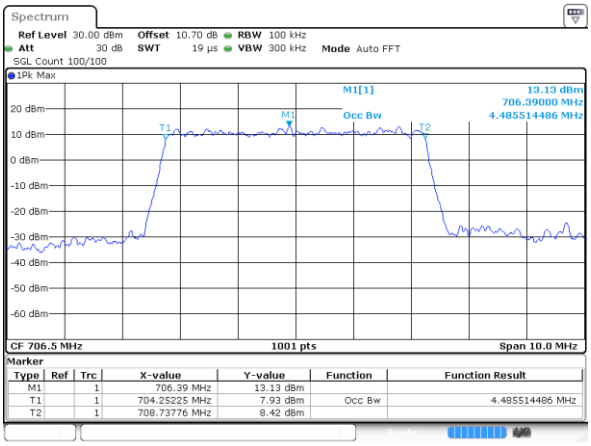
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.49	9.01	9.05	-	-	-	-
Middle CH	-	-	-	-	4.51	4.49	9.05	8.97	-	-	-	-
Highest CH	-	-	-	-	4.5	4.48	9.01	9.03	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	9.09	-	-	-	-	-
Middle CH	-	-	-	-	4.51	-	8.97	-	-	-	-	-
Highest CH	-	-	-	-	4.55	-	9.05	-	-	-	-	-

LTE Band 17

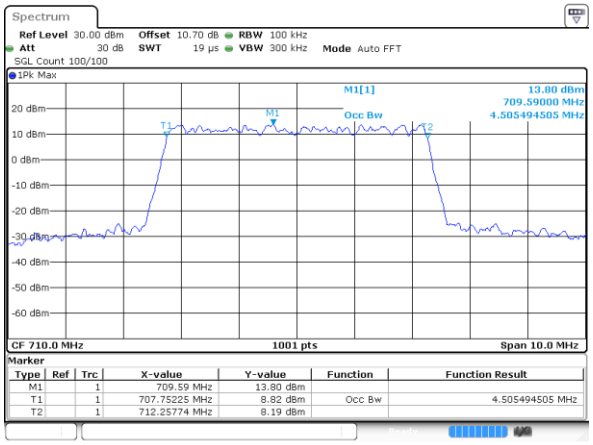
Lowest Channel / 5MHz / QPSK



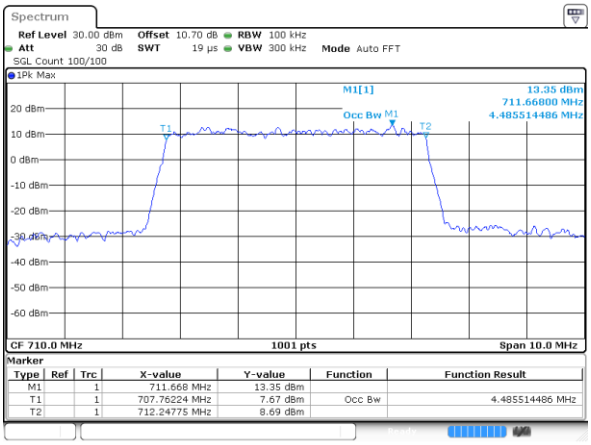
Lowest Channel / 5MHz / 16QAM



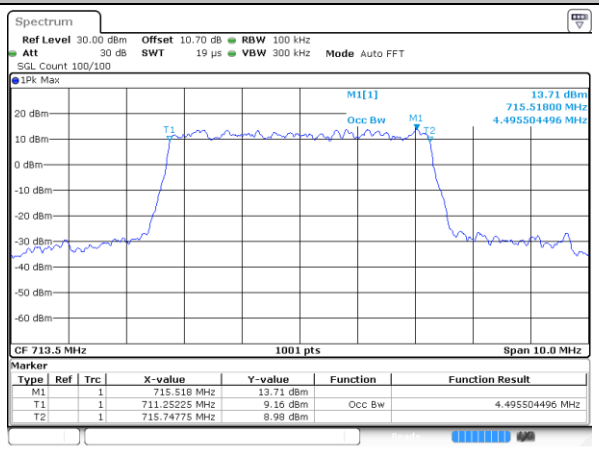
Middle Channel / 5MHz / QPSK



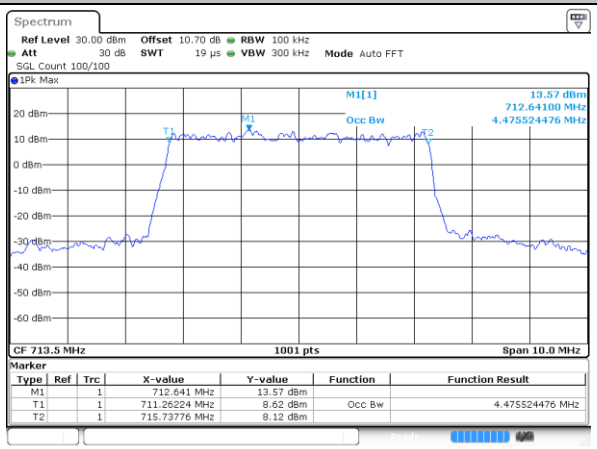
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

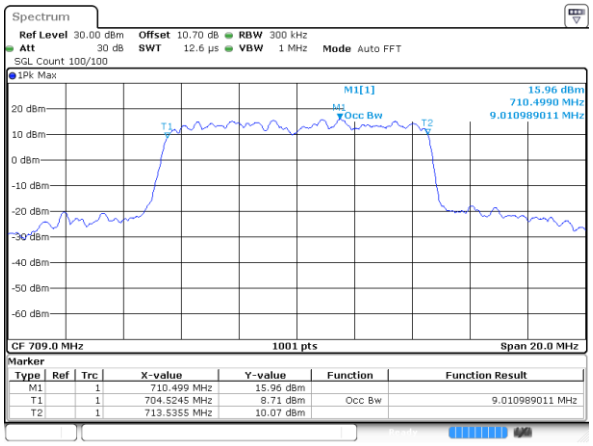


Highest Channel / 5MHz / 16QAM



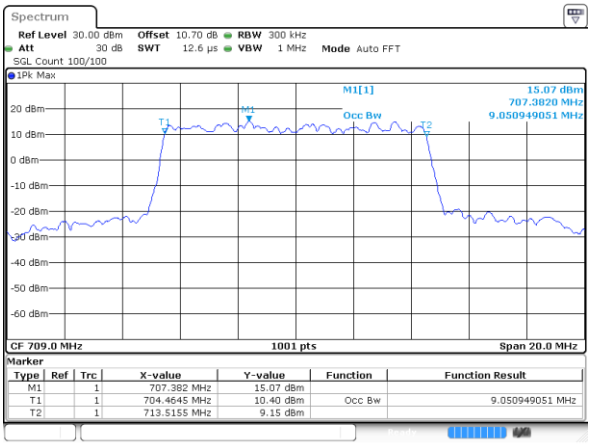
LTE Band 17

Lowest Channel / 10MHz / QPSK



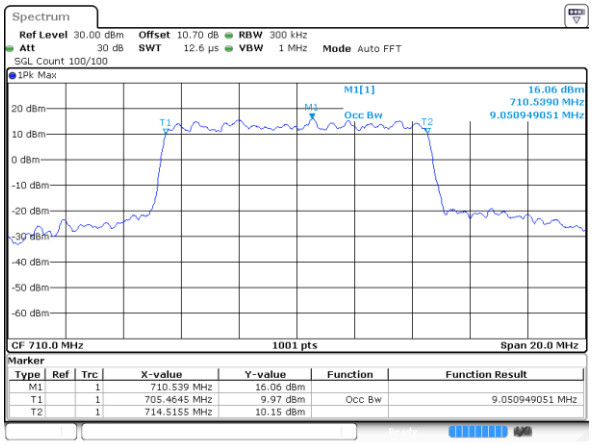
Date: 13.FEB.2018 18:14:59

Lowest Channel / 10MHz / 16QAM



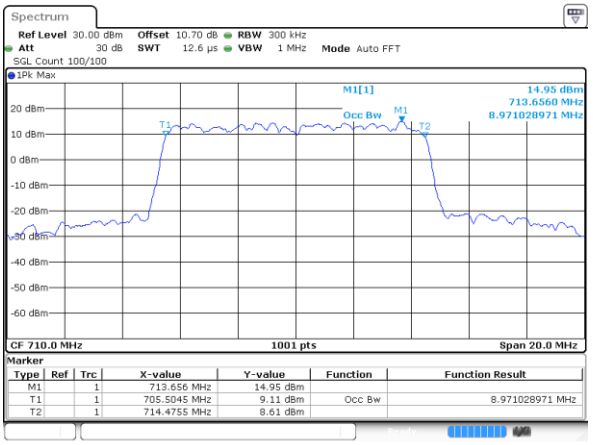
Date: 13.FEB.2018 18:15:09

Middle Channel / 10MHz / QPSK



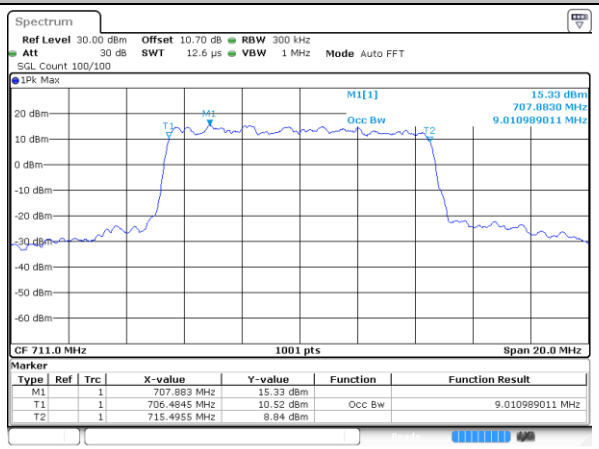
Date: 13.FEB.2018 18:21:55

Middle Channel / 10MHz / 16QAM



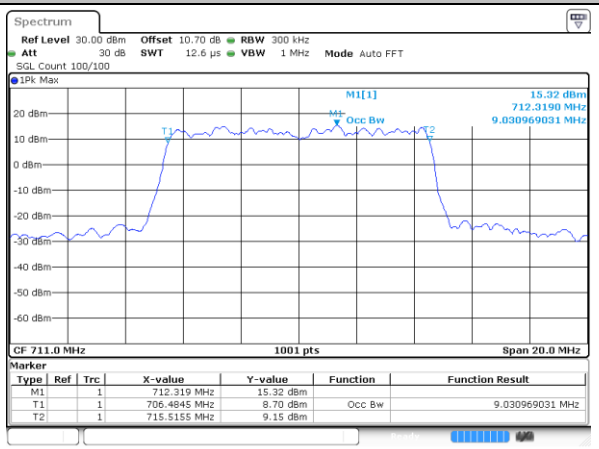
Date: 13.FEB.2018 18:22:05

Highest Channel / 10MHz / QPSK



Date: 13.FEB.2018 18:24:22

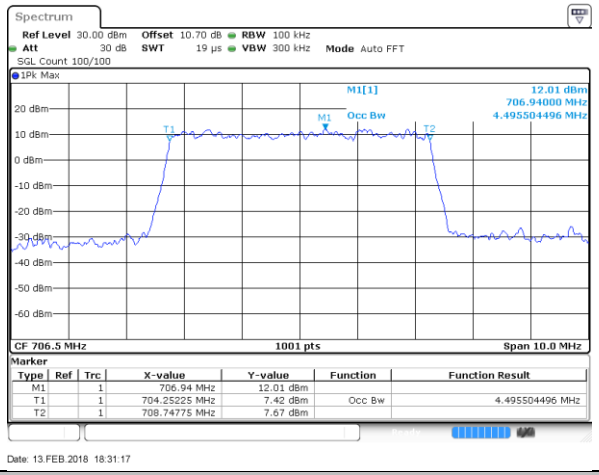
Highest Channel / 10MHz / 16QAM



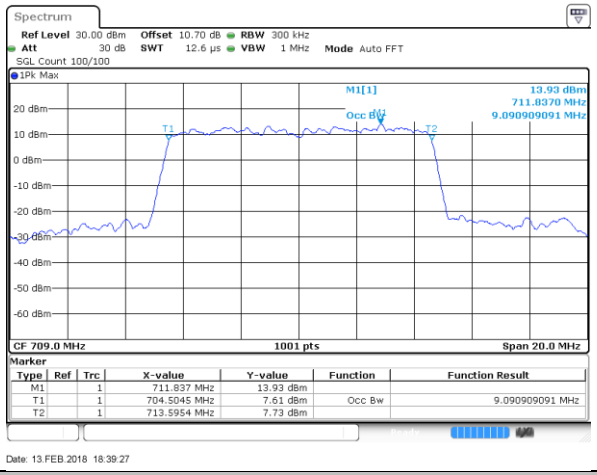
Date: 13.FEB.2018 18:24:31

LTE Band 17

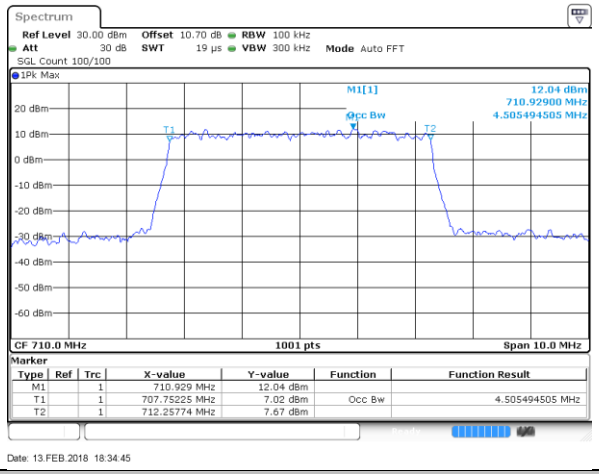
Lowest Channel / 5MHz / 64QAM



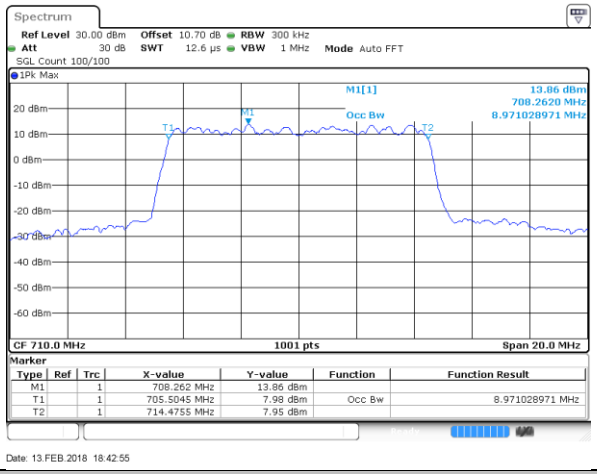
Lowest Channel / 10MHz / 64QAM



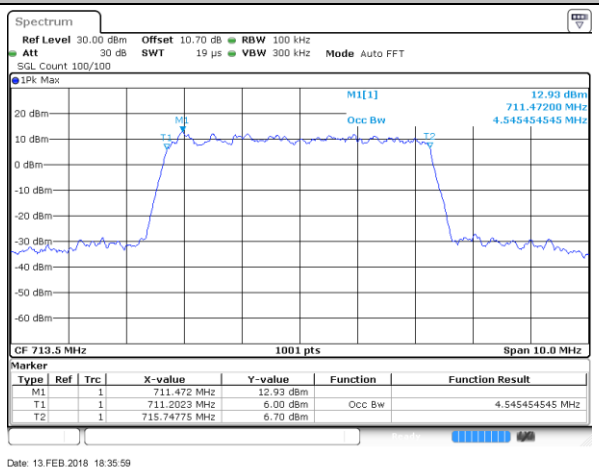
Middle Channel / 5MHz / 64QAM



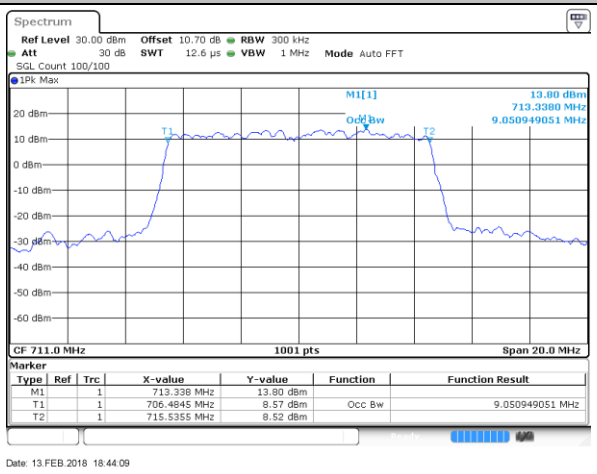
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



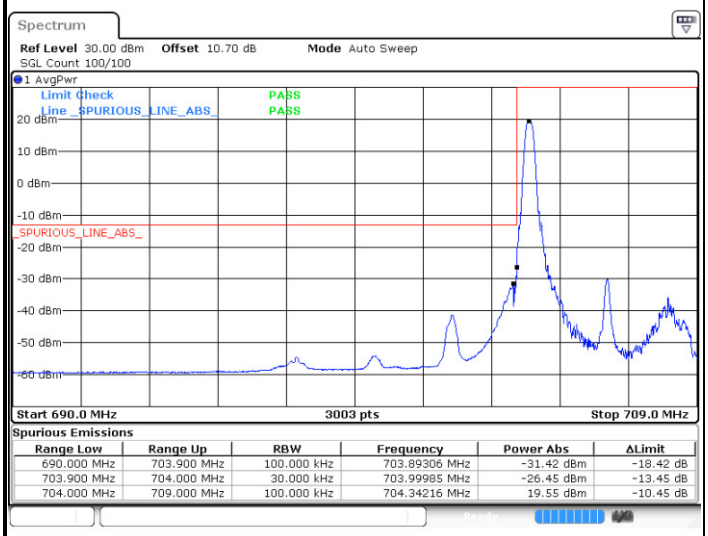
Highest Channel / 10MHz / 64QAM



Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB

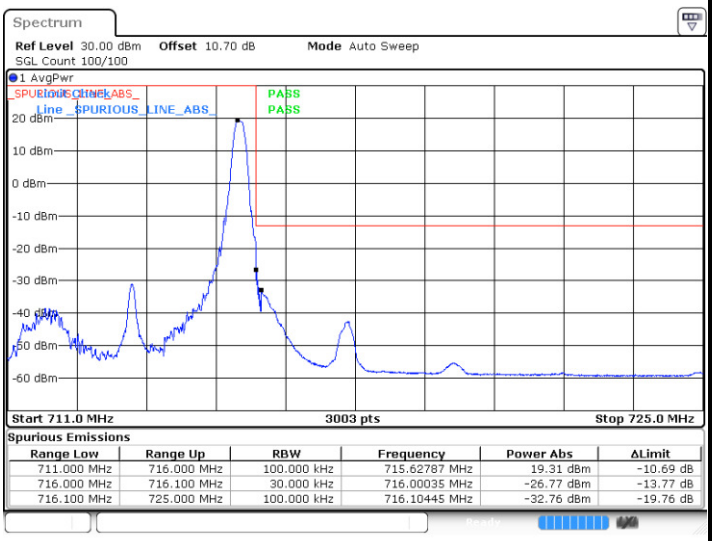


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-31.42 dBm	-18.42 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99985 MHz	-26.45 dBm	-13.45 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.34216 MHz	19.55 dBm	-10.45 dB

Date: 13.FEB.2018 18:00:18

Highest Band Edge / 1 RB

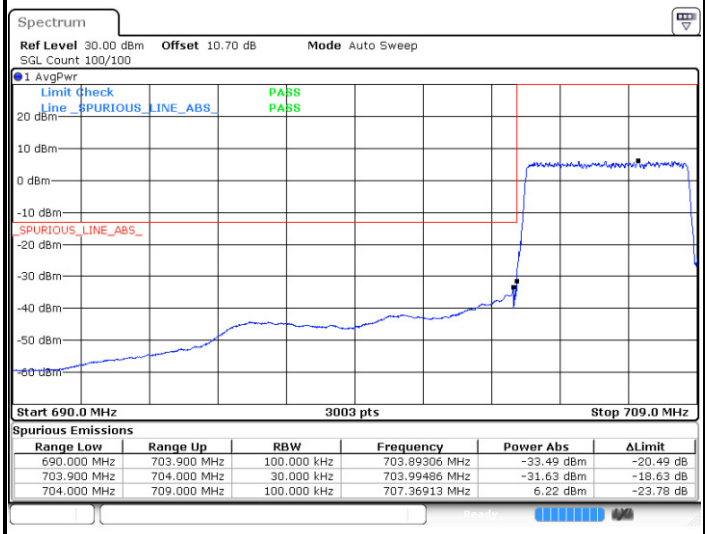


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.62787 MHz	19.31 dBm	-10.69 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00035 MHz	-26.77 dBm	-13.77 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.76 dBm	-19.76 dB

Date: 13.FEB.2018 18:09:41

Lowest Band Edge / Full RB

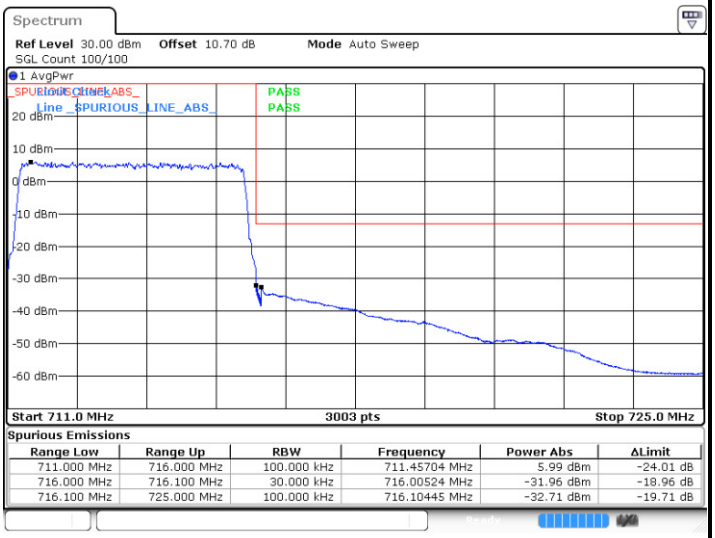


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-33.49 dBm	-20.49 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99486 MHz	-31.63 dBm	-18.63 dB
704.000 MHz	709.000 MHz	100.000 kHz	707.36913 MHz	6.22 dBm	-23.78 dB

Date: 13.FEB.2018 18:02:33

Highest Band Edge / Full RB



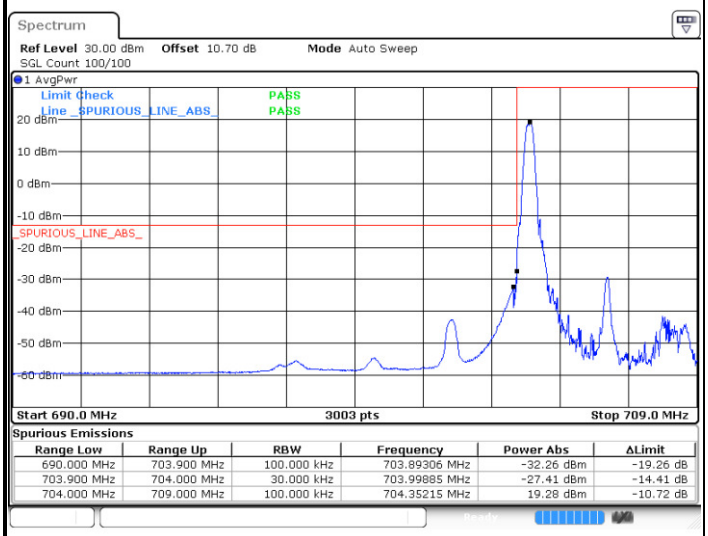
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.45704 MHz	5.99 dBm	-24.01 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00524 MHz	-31.96 dBm	-18.96 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.71 dBm	-19.71 dB

Date: 13.FEB.2018 18:11:55

LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

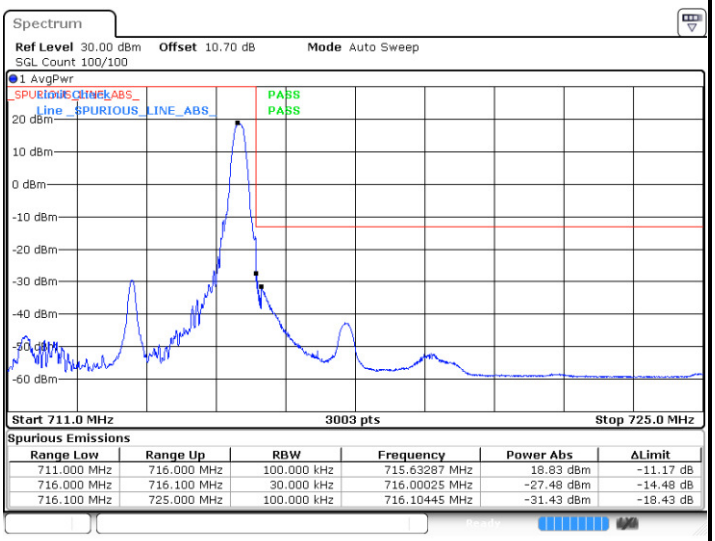


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-32.26 dBm	-19.26 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99885 MHz	-27.41 dBm	-14.41 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.35215 MHz	19.28 dBm	-10.72 dB

Date: 13.FEB.2018 18:01:25

Highest Band Edge / 1 RB

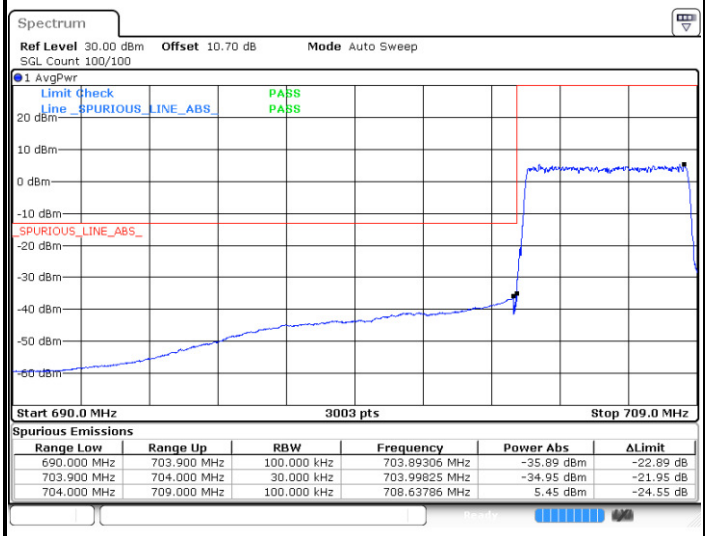


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.63287 MHz	18.83 dBm	-11.17 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00025 MHz	-27.48 dBm	-14.48 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-31.43 dBm	-18.43 dB

Date: 13.FEB.2018 18:10:48

Lowest Band Edge / Full RB

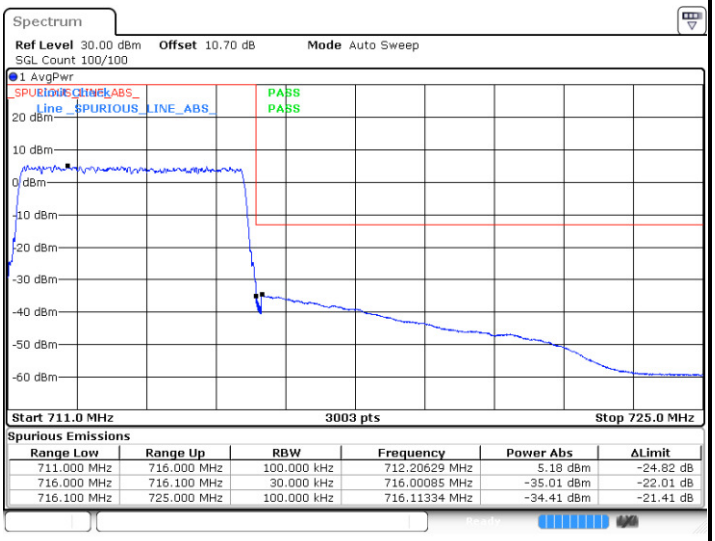


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-35.89 dBm	-22.89 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99825 MHz	-34.95 dBm	-21.95 dB
704.000 MHz	709.000 MHz	100.000 kHz	708.63786 MHz	5.45 dBm	-24.55 dB

Date: 13.FEB.2018 18:03:40

Highest Band Edge / Full RB



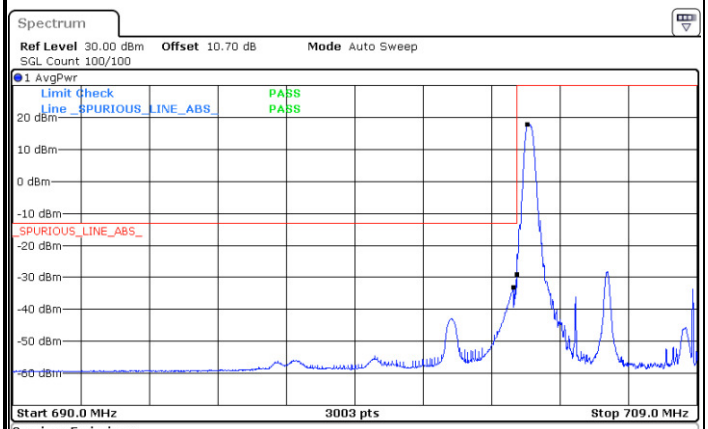
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	712.20629 MHz	5.18 dBm	-24.82 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00085 MHz	-35.01 dBm	-22.01 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-34.41 dBm	-21.41 dB

Date: 13.FEB.2018 18:13:02

LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

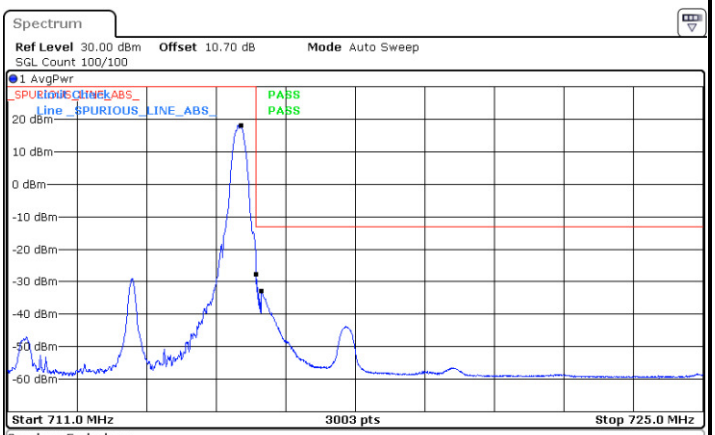


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-33.02 dBm	-20.02 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99885 MHz	-29.12 dBm	-16.12 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.29221 MHz	17.90 dBm	-12.10 dB

Date: 13.FEB.2018 18:32:35

Highest Band Edge / 1 RB

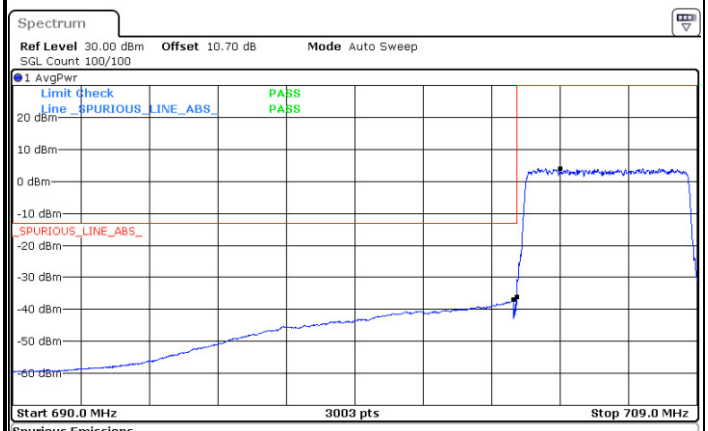


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.69780 MHz	18.21 dBm	-11.79 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00015 MHz	-27.80 dBm	-14.80 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.94 dBm	-19.94 dB

Date: 13.FEB.2018 18:37:17

Lowest Band Edge / Full RB

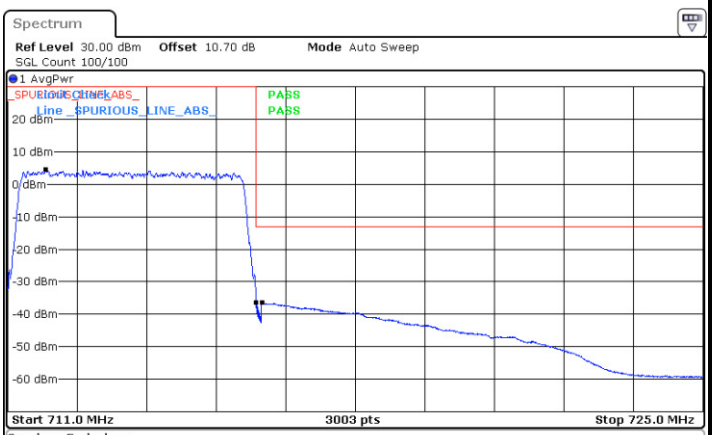


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-36.83 dBm	-23.83 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99865 MHz	-36.15 dBm	-23.15 dB
704.000 MHz	709.000 MHz	100.000 kHz	705.19131 MHz	4.04 dBm	-25.96 dB

Date: 13.FEB.2018 18:33:42

Highest Band Edge / Full RB



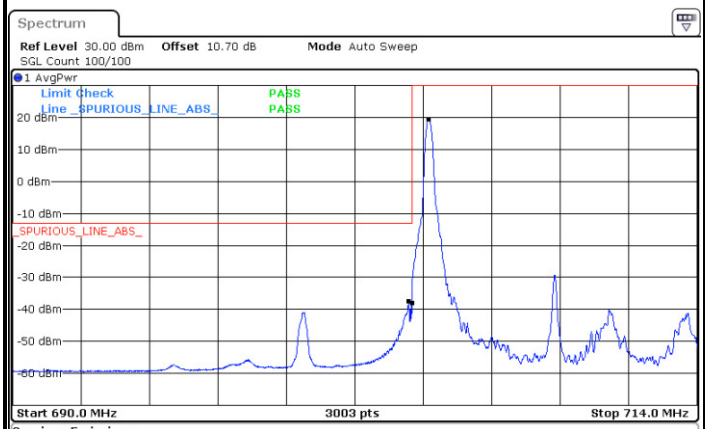
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.76174 MHz	4.62 dBm	-25.38 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00385 MHz	-36.31 dBm	-23.31 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-36.32 dBm	-23.32 dB

Date: 13.FEB.2018 18:38:24

LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB

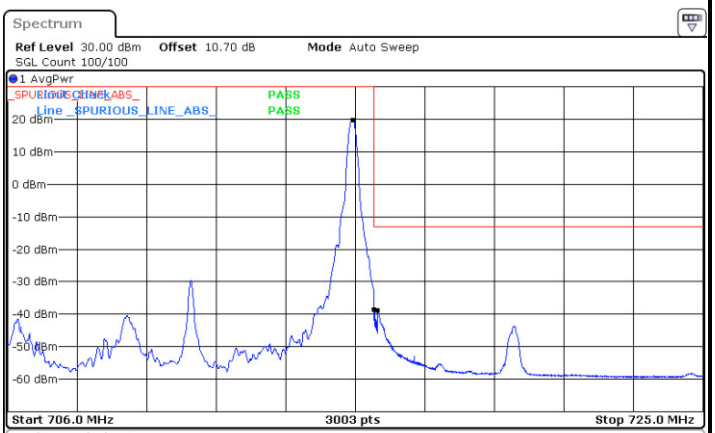


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-37.37 dBm	-24.37 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99965 MHz	-37.90 dBm	-24.90 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.58442 MHz	19.44 dBm	-10.56 dB

Date: 13.FEB.2018 18:16:36

Highest Band Edge / 1 RB

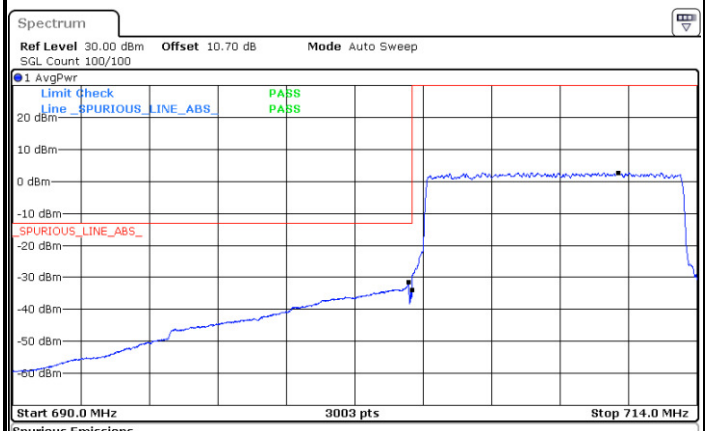


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.42557 MHz	19.65 dBm	-10.35 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00165 MHz	-38.66 dBm	-25.66 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-38.77 dBm	-25.77 dB

Date: 13.FEB.2018 18:25:59

Lowest Band Edge / Full RB

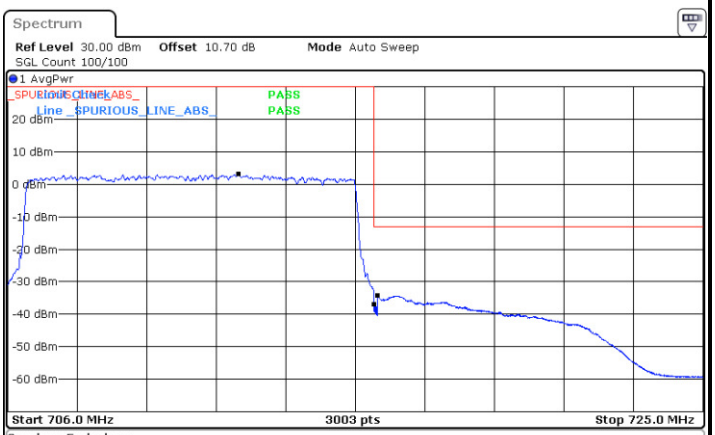


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-31.58 dBm	-18.58 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99955 MHz	-34.04 dBm	-21.04 dB
704.000 MHz	714.000 MHz	100.000 kHz	711.23776 MHz	2.72 dBm	-27.28 dB

Date: 13.FEB.2018 18:18:51

Highest Band Edge / Full RB



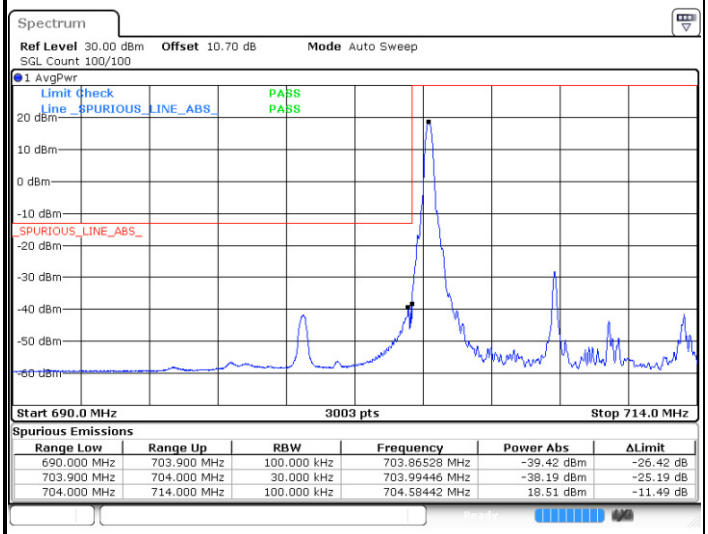
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	712.30869 MHz	3.16 dBm	-26.84 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00365 MHz	-36.80 dBm	-23.80 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-34.17 dBm	-21.17 dB

Date: 13.FEB.2018 18:28:13

LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

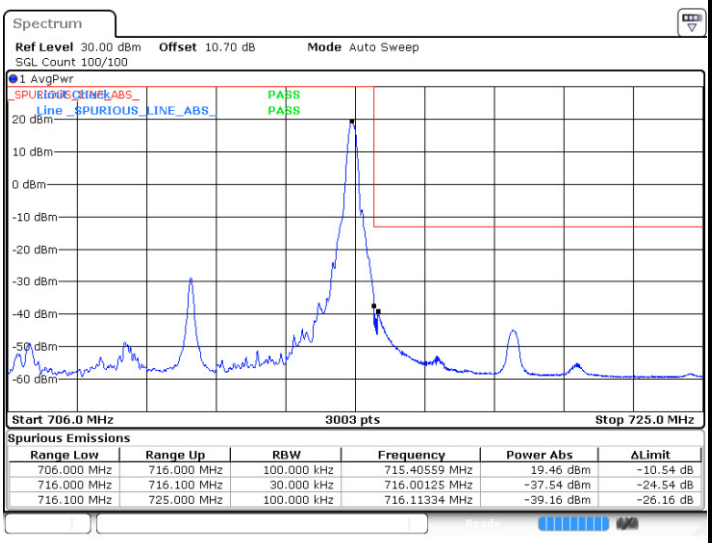


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.86528 MHz	-39.42 dBm	-26.42 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99446 MHz	-38.19 dBm	-25.19 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.58442 MHz	18.51 dBm	-11.49 dB

Date: 13.FEB.2018 18:17:43

Highest Band Edge / 1 RB

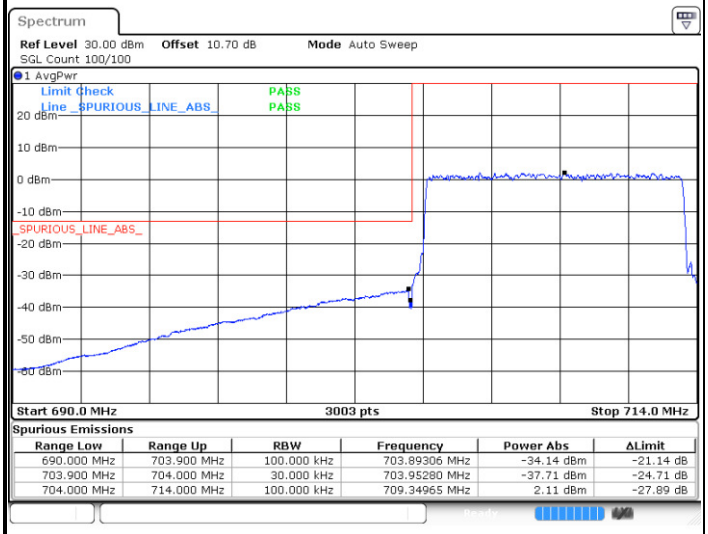


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.40559 MHz	19.46 dBm	-10.54 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00125 MHz	-37.54 dBm	-24.54 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-39.16 dBm	-26.16 dB

Date: 13.FEB.2018 18:27:06

Lowest Band Edge / Full RB

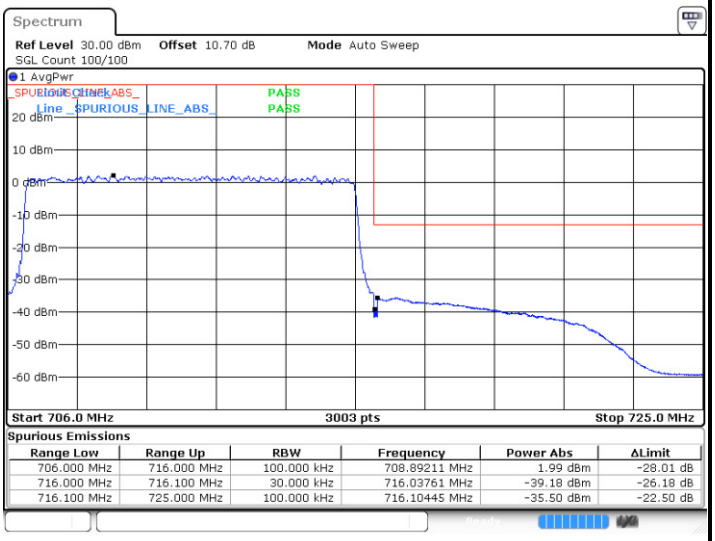


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-34.14 dBm	-21.14 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.95280 MHz	-37.71 dBm	-24.71 dB
704.000 MHz	714.000 MHz	100.000 kHz	709.34965 MHz	2.11 dBm	-27.89 dB

Date: 13.FEB.2018 18:19:58

Highest Band Edge / Full RB



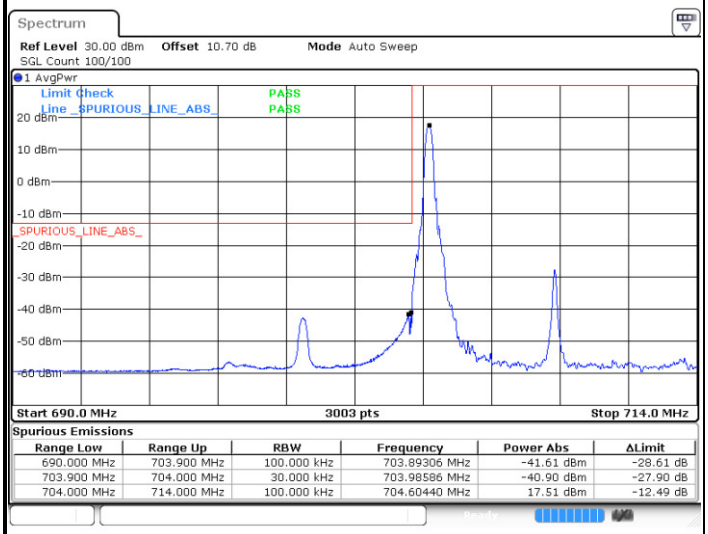
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	708.89211 MHz	1.99 dBm	-28.01 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.03761 MHz	-39.18 dBm	-26.18 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-35.50 dBm	-22.50 dB

Date: 13.FEB.2018 18:29:21

LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

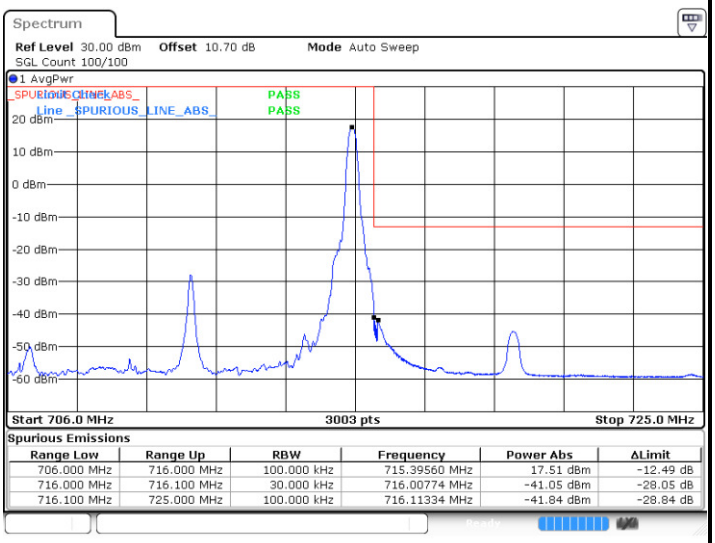


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-41.61 dBm	-28.61 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.98586 MHz	-40.90 dBm	-27.90 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.60440 MHz	17.51 dBm	-12.49 dB

Date: 13.FEB.2018 18:40:45

Highest Band Edge / 1 RB

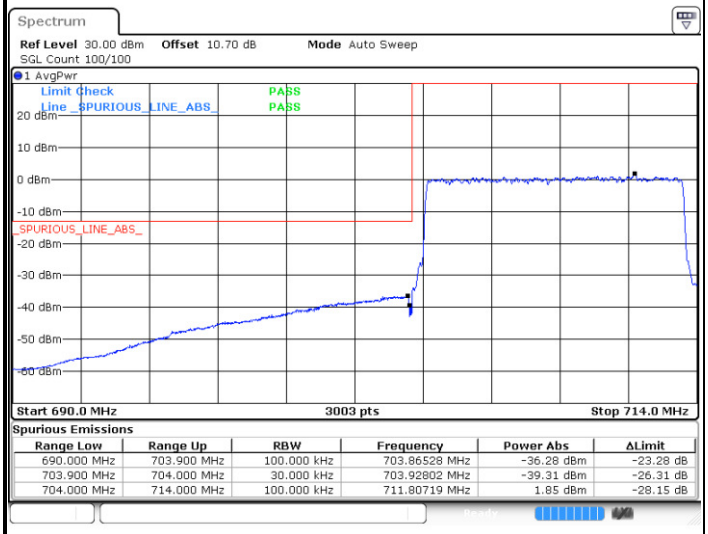


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.39560 MHz	17.51 dBm	-12.49 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00774 MHz	-41.05 dBm	-28.05 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-41.84 dBm	-28.84 dB

Date: 13.FEB.2018 18:45:27

Lowest Band Edge / Full RB

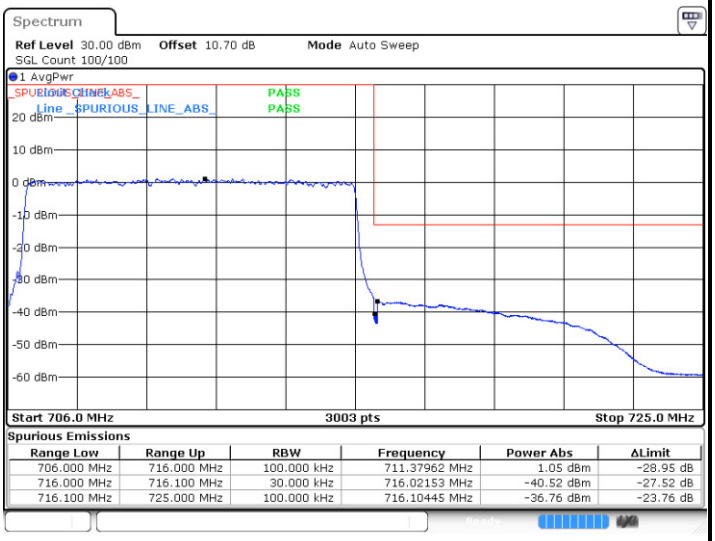


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.86528 MHz	-36.28 dBm	-23.28 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.92802 MHz	-39.31 dBm	-26.31 dB
704.000 MHz	714.000 MHz	100.000 kHz	711.80719 MHz	1.85 dBm	-28.15 dB

Date: 13.FEB.2018 18:41:52

Highest Band Edge / Full RB



Spurious Emissions

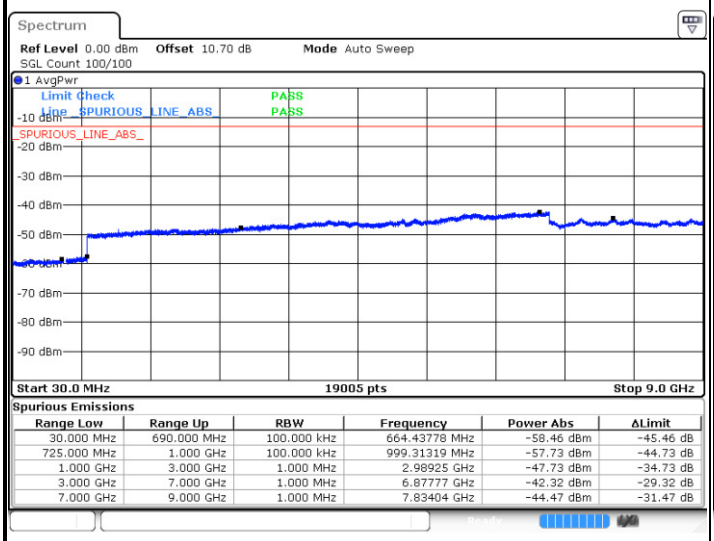
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	711.37962 MHz	1.05 dBm	-28.95 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.02153 MHz	-40.52 dBm	-27.52 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-36.76 dBm	-23.76 dB

Date: 13.FEB.2018 18:46:34

Conducted Spurious Emission

LTE Band 17 / 5MHz

Lowest Channel / QPSK

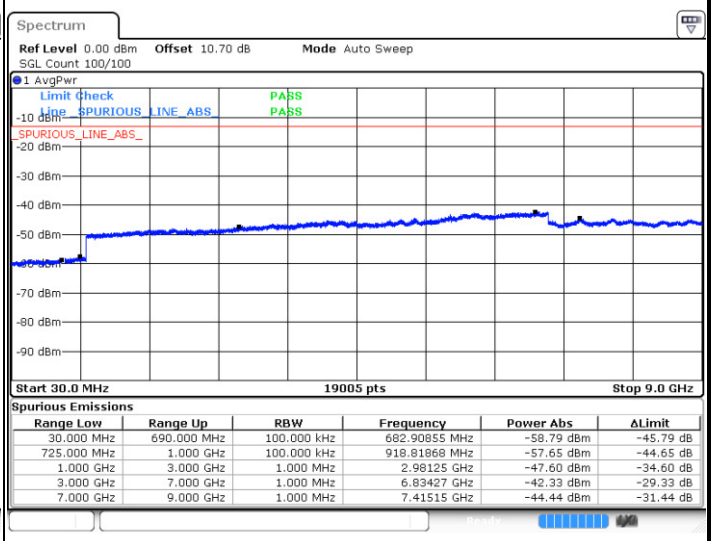


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	664.43778 MHz	-58.46 dBm	-45.46 dB
725.000 MHz	1.000 GHz	100.000 kHz	999.31319 MHz	-57.73 dBm	-44.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98925 GHz	-47.73 dBm	-34.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87777 GHz	-42.32 dBm	-29.32 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.83404 GHz	-44.47 dBm	-31.47 dB

Date: 13.FEB.2018 18:04:33

Lowest Channel / 16QAM

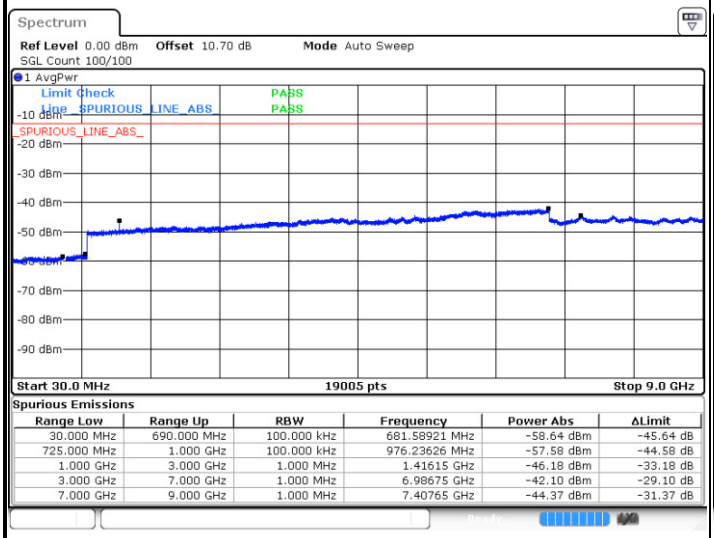


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	682.90855 MHz	-58.79 dBm	-45.79 dB
725.000 MHz	1.000 GHz	100.000 kHz	918.81868 MHz	-57.65 dBm	-44.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98125 GHz	-47.60 dBm	-34.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.83427 GHz	-42.33 dBm	-29.33 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.41515 GHz	-44.44 dBm	-31.44 dB

Date: 13.FEB.2018 18:05:27

Middle Channel / QPSK

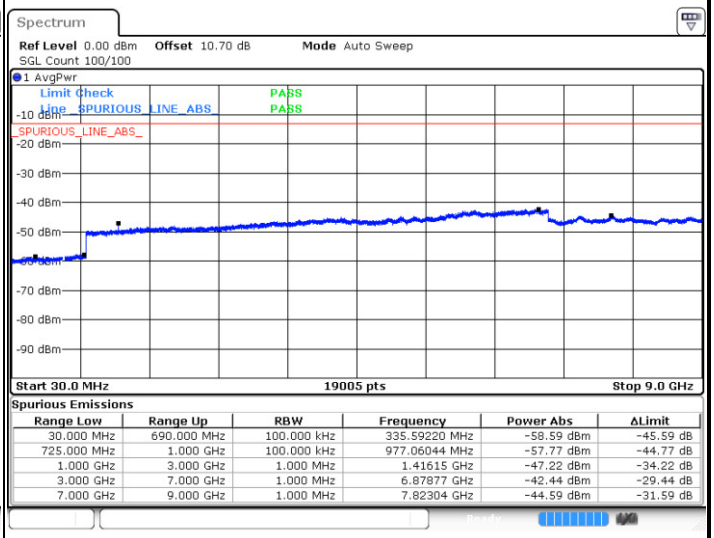


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	681.58921 MHz	-58.64 dBm	-45.64 dB
725.000 MHz	1.000 GHz	100.000 kHz	976.23626 MHz	-57.58 dBm	-44.58 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-46.18 dBm	-33.18 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98675 GHz	-42.10 dBm	-29.10 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.40765 GHz	-44.37 dBm	-31.37 dB

Date: 13.FEB.2018 18:07:00

Middle Channel / 16QAM



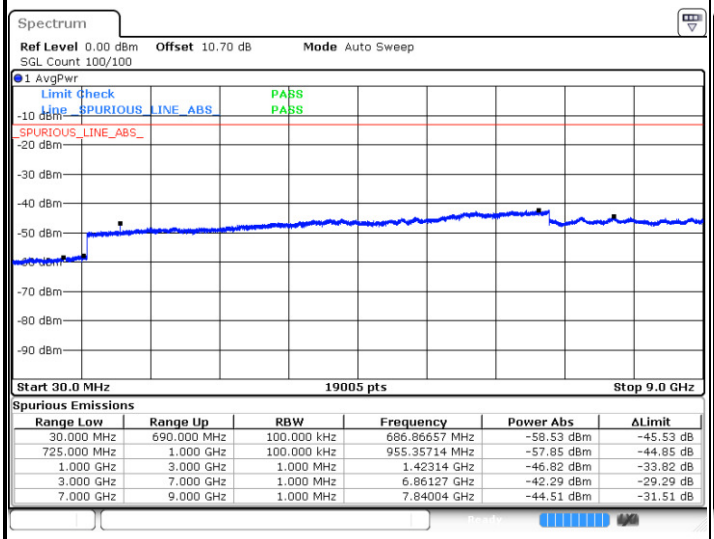
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	335.59220 MHz	-58.59 dBm	-45.59 dB
725.000 MHz	1.000 GHz	100.000 kHz	977.06044 MHz	-57.77 dBm	-44.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-47.22 dBm	-34.22 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87877 GHz	-42.44 dBm	-29.44 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.82304 GHz	-44.59 dBm	-31.59 dB

Date: 13.FEB.2018 18:07:53

LTE Band 17 / 5MHz

Highest Channel / QPSK

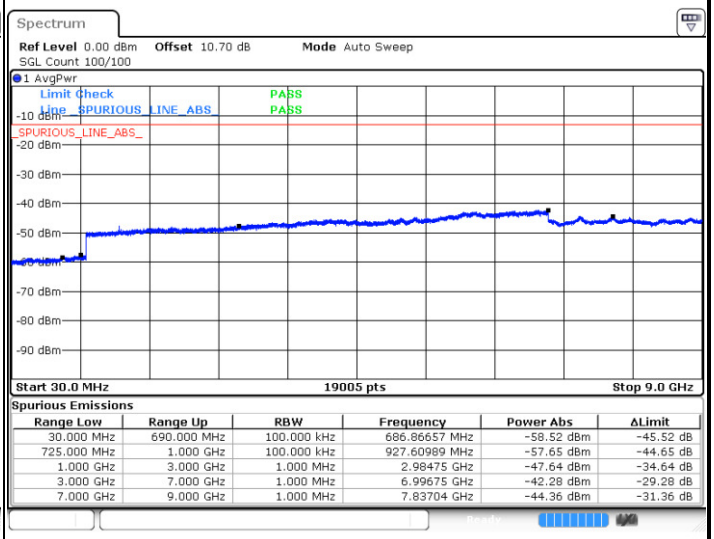


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.86657 MHz	-58.53 dBm	-45.53 dB
725.000 MHz	1.000 GHz	100.000 kHz	955.35714 MHz	-57.85 dBm	-44.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-46.82 dBm	-33.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86127 GHz	-42.29 dBm	-29.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.84004 GHz	-44.51 dBm	-31.51 dB

Date: 13.FEB.2018 18:13:55

Highest Channel / 16QAM



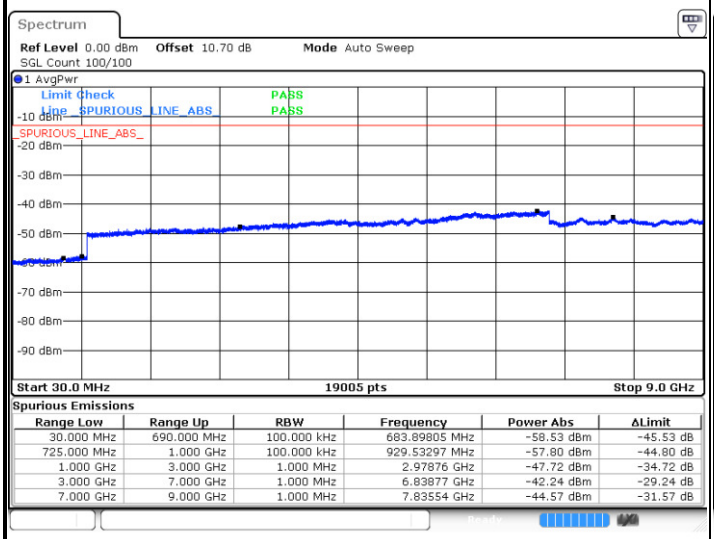
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.86657 MHz	-58.52 dBm	-45.52 dB
725.000 MHz	1.000 GHz	100.000 kHz	927.60989 MHz	-57.65 dBm	-44.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98475 GHz	-47.64 dBm	-34.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99675 GHz	-42.28 dBm	-29.28 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.83704 GHz	-44.36 dBm	-31.36 dB

Date: 13.FEB.2018 18:14:49

LTE Band 17 / 10MHz

Lowest Channel / QPSK

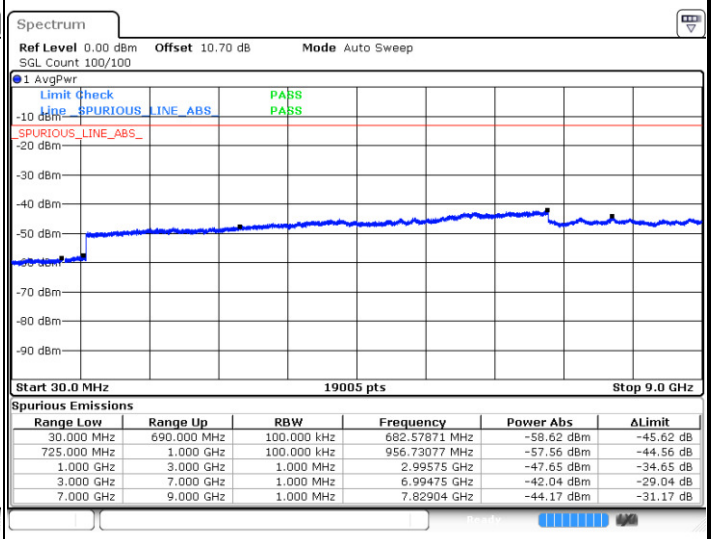


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	683.89805 MHz	-58.53 dBm	-45.53 dB
725.000 MHz	1.000 GHz	100.000 kHz	929.53297 MHz	-57.80 dBm	-44.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97876 GHz	-47.72 dBm	-34.72 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.83877 GHz	-42.24 dBm	-29.24 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.83554 GHz	-44.57 dBm	-31.57 dB

Date: 13.FEB.2018 18:20:51

Lowest Channel / 16QAM



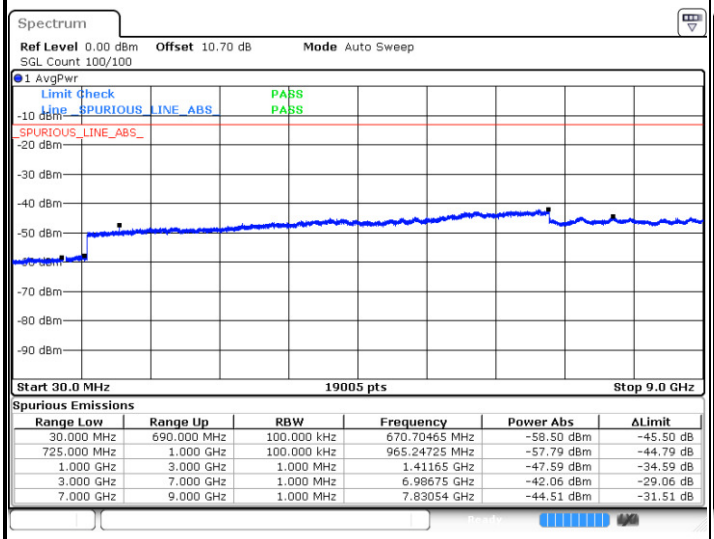
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	682.57871 MHz	-58.62 dBm	-45.62 dB
725.000 MHz	1.000 GHz	100.000 kHz	956.73077 MHz	-57.56 dBm	-44.56 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99575 GHz	-47.65 dBm	-34.65 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99475 GHz	-42.04 dBm	-29.04 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.82904 GHz	-44.17 dBm	-31.17 dB

Date: 13.FEB.2018 18:21:45

LTE Band 17 / 10MHz

Middle Channel / QPSK

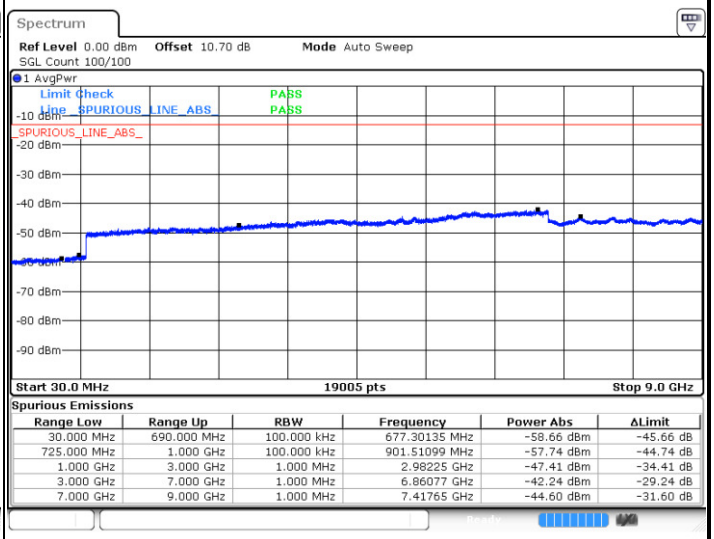


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	670.70465 MHz	-58.50 dBm	-45.50 dB
725.000 MHz	1.000 GHz	100.000 kHz	965.24725 MHz	-57.79 dBm	-44.79 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41165 GHz	-47.59 dBm	-34.59 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98675 GHz	-42.06 dBm	-29.06 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.83054 GHz	-44.51 dBm	-31.51 dB

Date: 13.FEB.2018 18:23:18

Middle Channel / 16QAM

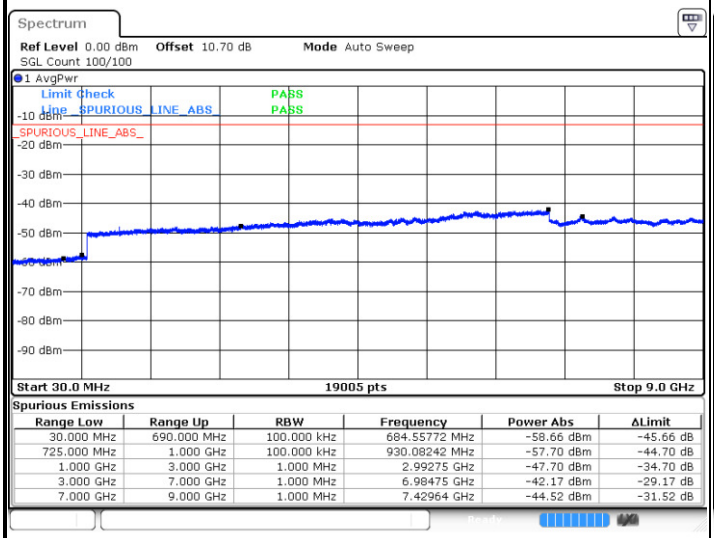


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	677.30135 MHz	-58.66 dBm	-45.66 dB
725.000 MHz	1.000 GHz	100.000 kHz	901.51099 MHz	-57.74 dBm	-44.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98225 GHz	-47.41 dBm	-34.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86077 GHz	-42.24 dBm	-29.24 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.41765 GHz	-44.60 dBm	-31.60 dB

Date: 13.FEB.2018 18:24:12

Highest Channel / QPSK

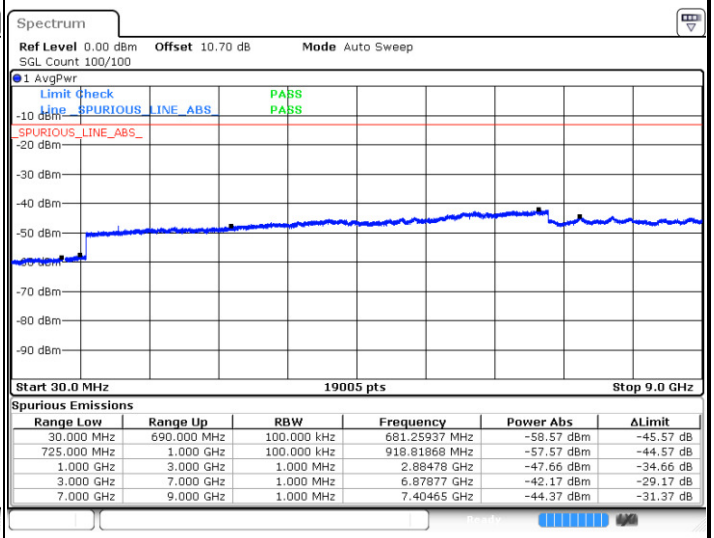


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	684.55772 MHz	-58.66 dBm	-45.66 dB
725.000 MHz	1.000 GHz	100.000 kHz	930.08242 MHz	-57.70 dBm	-44.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99275 GHz	-47.70 dBm	-34.70 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98475 GHz	-42.17 dBm	-29.17 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.42964 GHz	-44.52 dBm	-31.52 dB

Date: 13.FEB.2018 18:30:14

Highest Channel / 16QAM



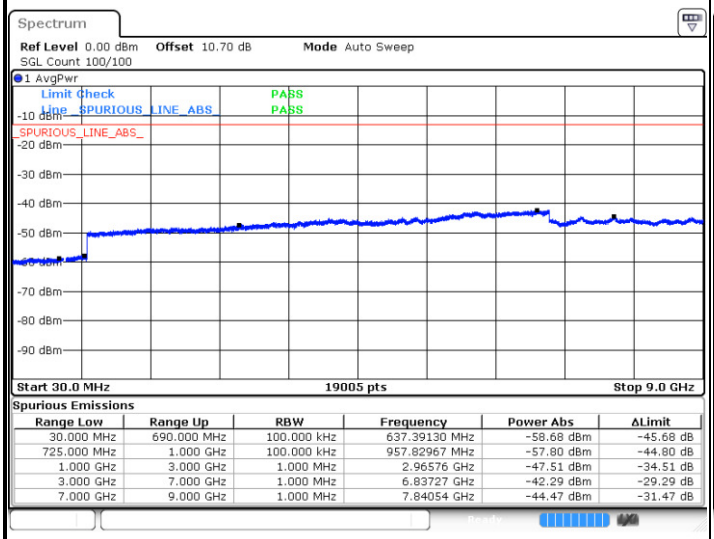
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	681.25937 MHz	-58.57 dBm	-45.57 dB
725.000 MHz	1.000 GHz	100.000 kHz	918.81868 MHz	-57.57 dBm	-44.57 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.88478 GHz	-47.66 dBm	-34.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87877 GHz	-42.17 dBm	-29.17 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.40465 GHz	-44.37 dBm	-31.37 dB

Date: 13.FEB.2018 18:31:07

LTE Band 17 / 5MHz

Lowest Channel / 64QAM

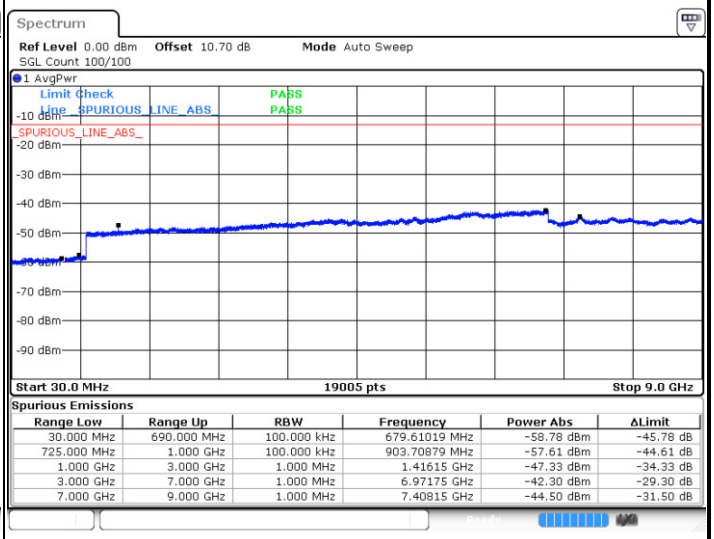


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	637.39130 MHz	-58.68 dBm	-45.68 dB
725.000 MHz	1.000 GHz	100.000 kHz	957.82967 MHz	-57.80 dBm	-44.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96576 GHz	-47.51 dBm	-34.51 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.83727 GHz	-42.29 dBm	-29.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.84054 GHz	-44.47 dBm	-31.47 dB

Date: 13.FEB.2018 18:34:35

Middle Channel / 64QAM

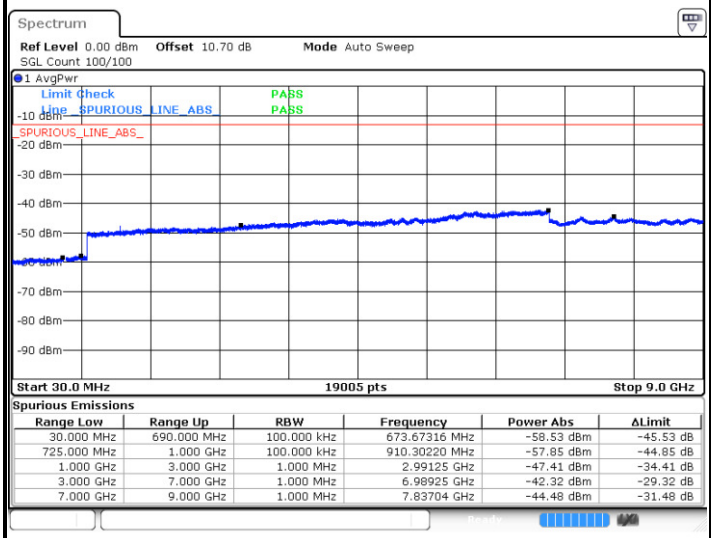


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	679.61019 MHz	-58.78 dBm	-45.78 dB
725.000 MHz	1.000 GHz	100.000 kHz	903.70879 MHz	-57.61 dBm	-44.61 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-47.33 dBm	-34.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97175 GHz	-42.30 dBm	-29.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.40815 GHz	-44.50 dBm	-31.50 dB

Date: 13.FEB.2018 18:35:49

Highest Channel / 64QAM



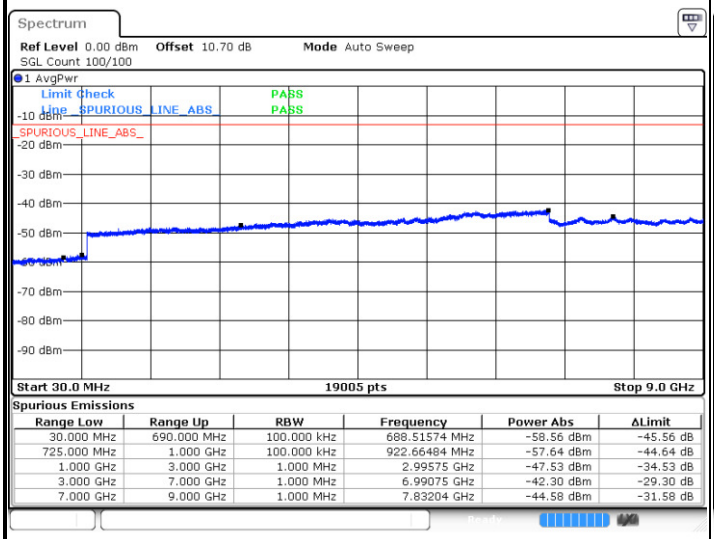
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	673.67316 MHz	-58.53 dBm	-45.53 dB
725.000 MHz	1.000 GHz	100.000 kHz	910.30220 MHz	-57.85 dBm	-44.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99125 GHz	-47.41 dBm	-34.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98925 GHz	-42.32 dBm	-29.32 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.83704 GHz	-44.48 dBm	-31.48 dB

Date: 13.FEB.2018 18:39:17

LTE Band 17 / 10MHz

Lowest Channel / 64QAM

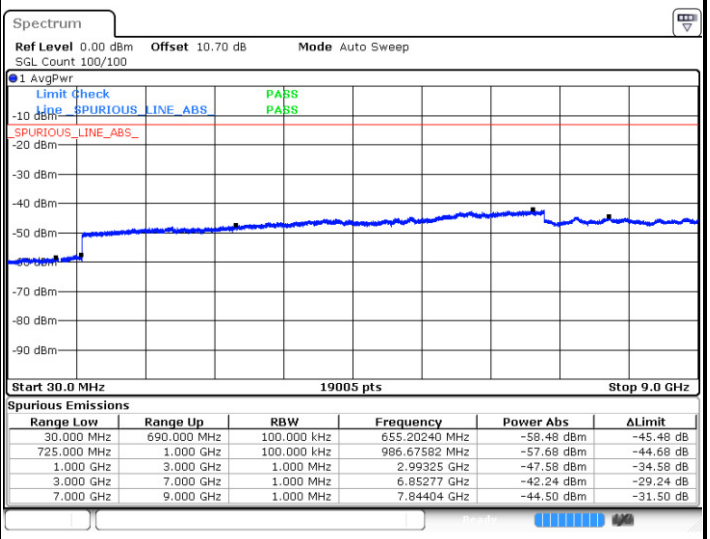


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	688.51574 MHz	-58.56 dBm	-45.56 dB
725.000 MHz	1.000 GHz	100.000 kHz	922.66484 MHz	-57.64 dBm	-44.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99575 GHz	-47.53 dBm	-34.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99075 GHz	-42.30 dBm	-29.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.83204 GHz	-44.58 dBm	-31.58 dB

Date: 13.FEB.2018 18:42:45

Middle Channel / 64QAM

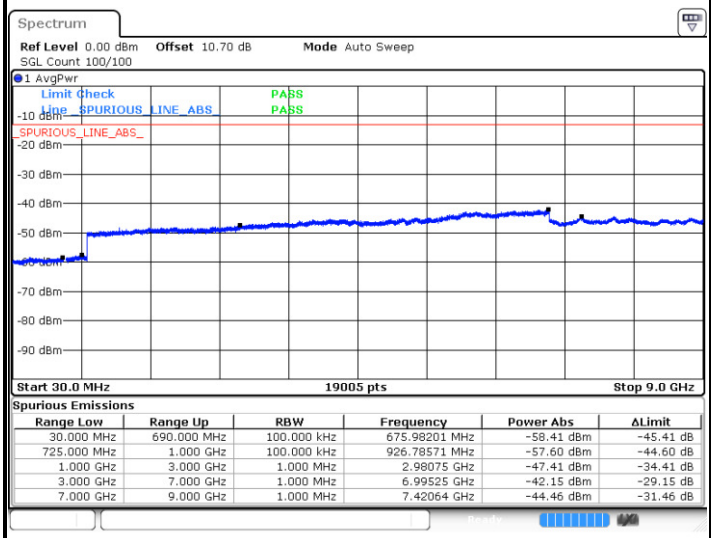


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	655.20240 MHz	-58.48 dBm	-45.48 dB
725.000 MHz	1.000 GHz	100.000 kHz	986.67582 MHz	-57.68 dBm	-44.68 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99325 GHz	-47.58 dBm	-34.58 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85277 GHz	-42.24 dBm	-29.24 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.84404 GHz	-44.50 dBm	-31.50 dB

Date: 13.FEB.2018 18:43:59

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	675.98201 MHz	-58.41 dBm	-45.41 dB
725.000 MHz	1.000 GHz	100.000 kHz	926.78571 MHz	-57.60 dBm	-44.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98075 GHz	-47.41 dBm	-34.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99525 GHz	-42.15 dBm	-29.15 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.42064 GHz	-44.46 dBm	-31.46 dB

Date: 13.FEB.2018 18:47:27

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0034	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0068	
0	Normal Voltage	0.0038	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

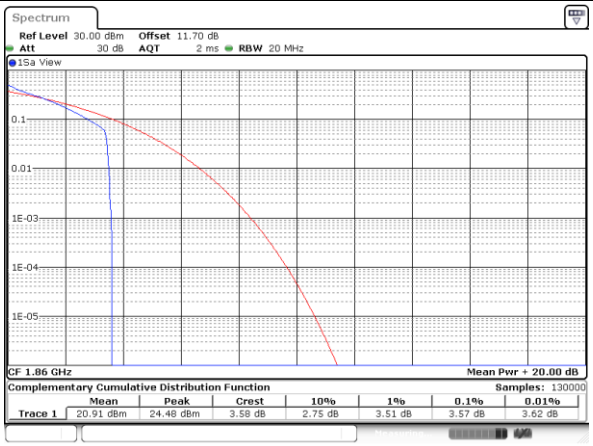
LTE Band 25

Peak-to-Average Ratio

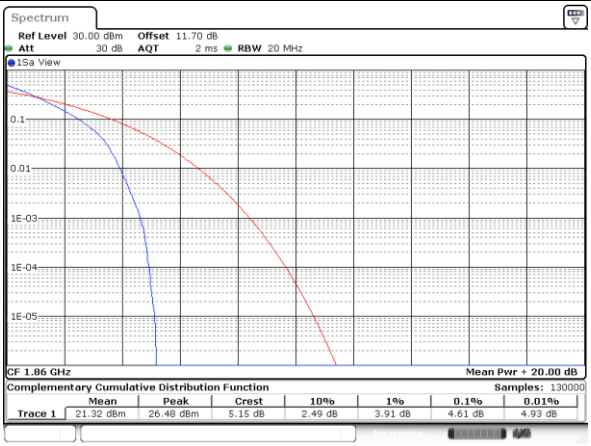
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.61	5.39	6	PASS
Middle CH	3.65	4.67	5.57	5.94	
Highest CH	3.62	4.58	4.99	5.88	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.75	6.46	-	-	PASS
Middle CH	6.46	6.58	-	-	
Highest CH	6.26	6.55	-	-	

LTE Band 25 / 20MHz / QPSK

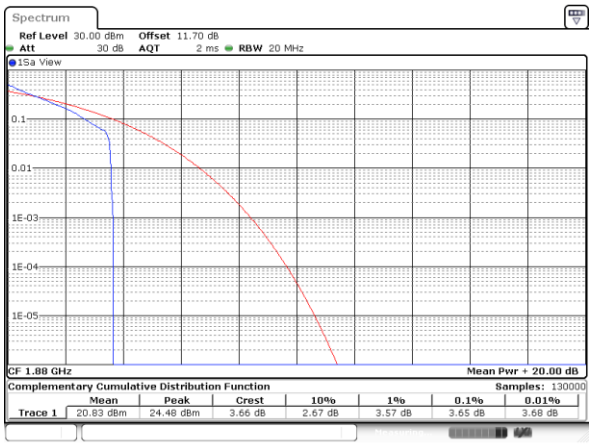
Lowest Channel / 1RB



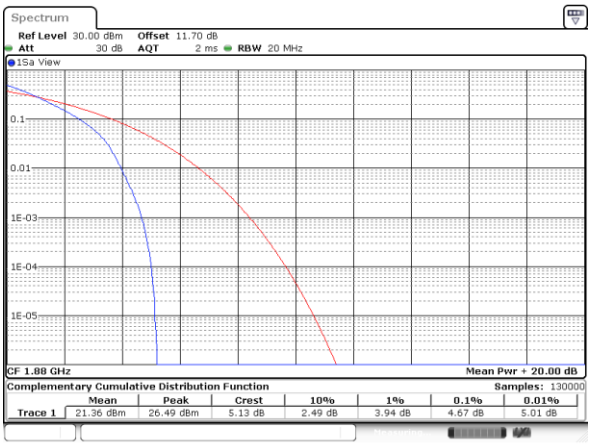
Lowest Channel / Full RB



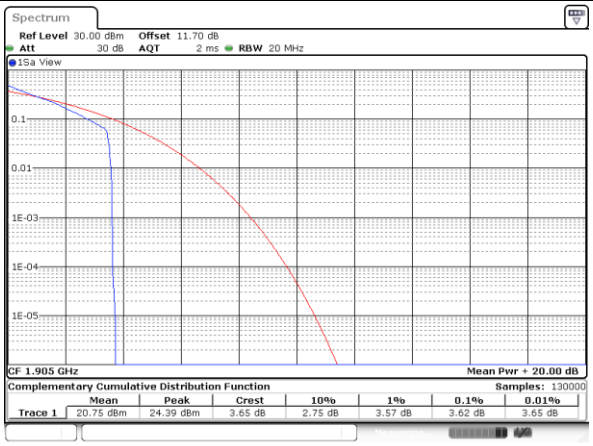
Middle Channel / 1RB



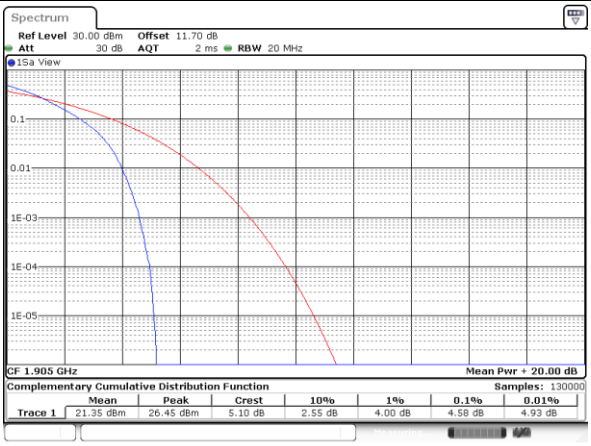
Middle Channel / Full RB



Highest Channel / 1RB

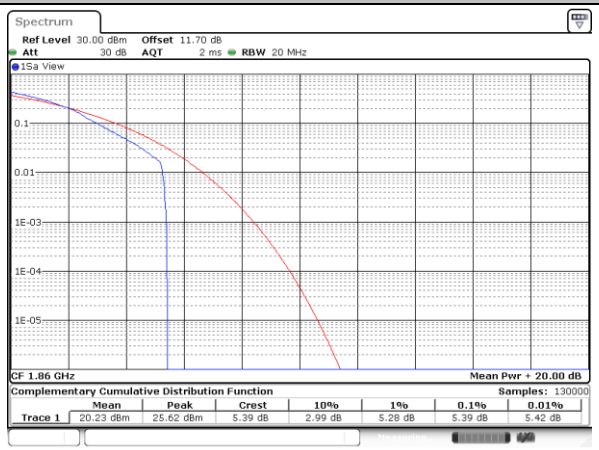


Highest Channel / Full RB



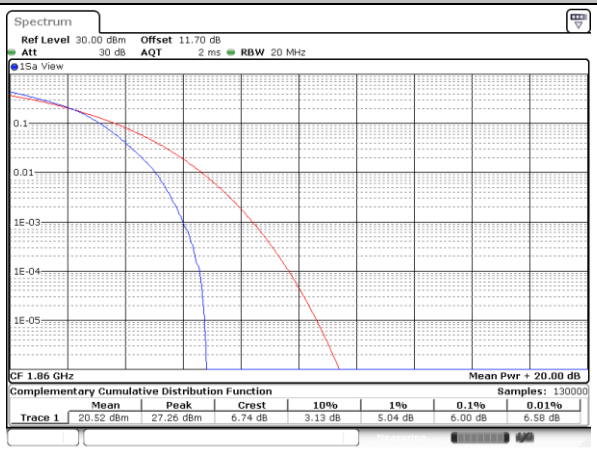
LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



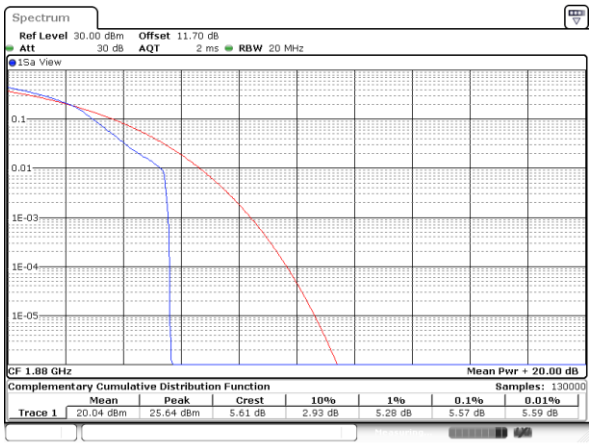
Date: 17.FEB.2018 04:49:53

Lowest Channel / Full RB



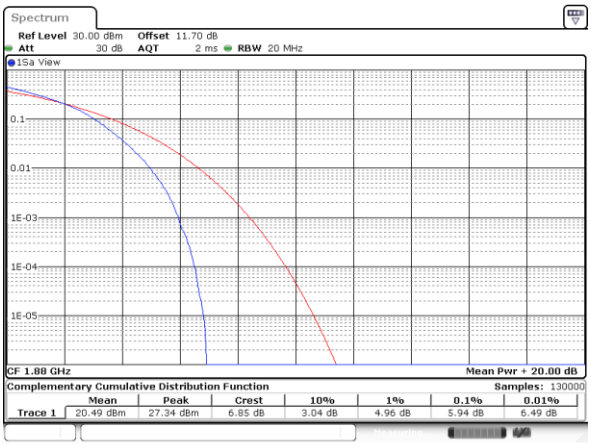
Date: 17.FEB.2018 04:50:06

Middle Channel / 1RB



Date: 17.FEB.2018 04:50:45

Middle Channel / Full RB



Date: 17.FEB.2018 04:50:54

Highest Channel / 1RB

Date: 17.FEB.2018 04:51:22

Highest Channel / Full RB

Date: 17.FEB.2018 04:51:31