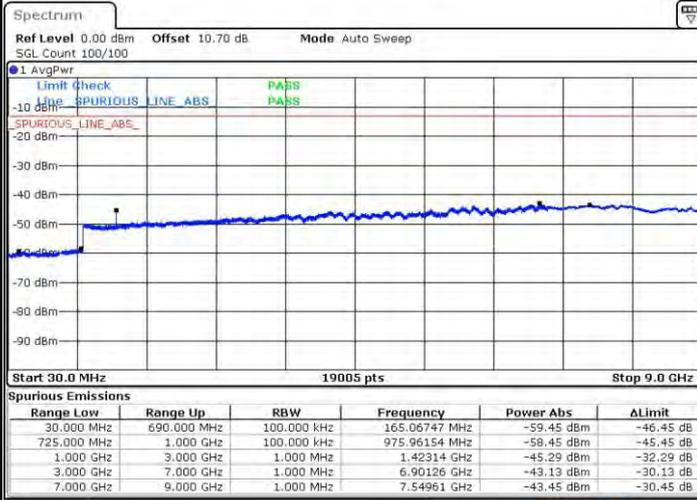




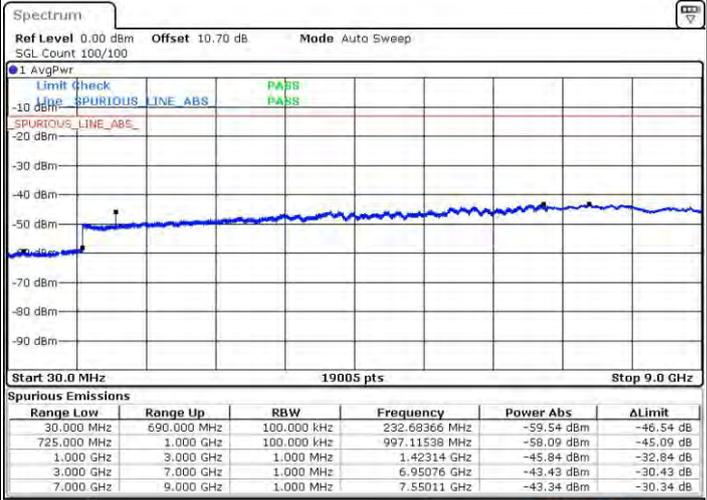
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 21 AUG 2019 19:52:36

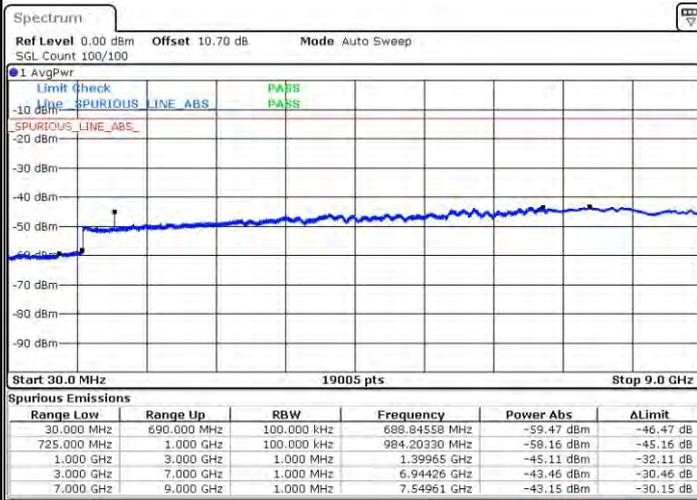
Highest Channel / 16QAM



Date: 21 AUG 2019 19:51:50

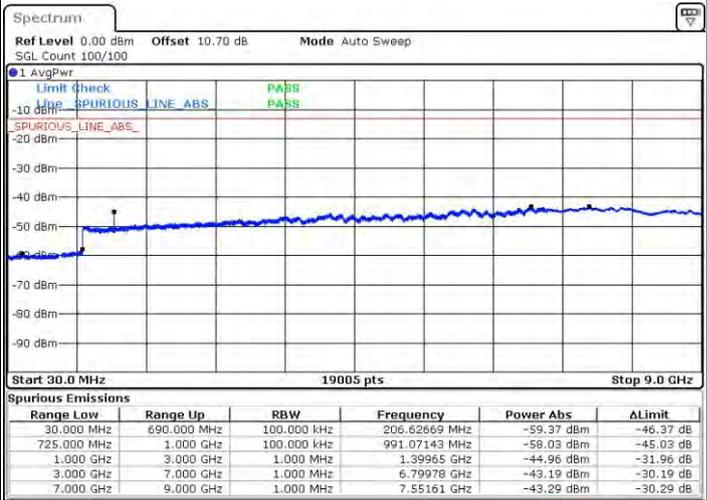
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 21 AUG 2019 19:58:17

Lowest Channel / 16QAM



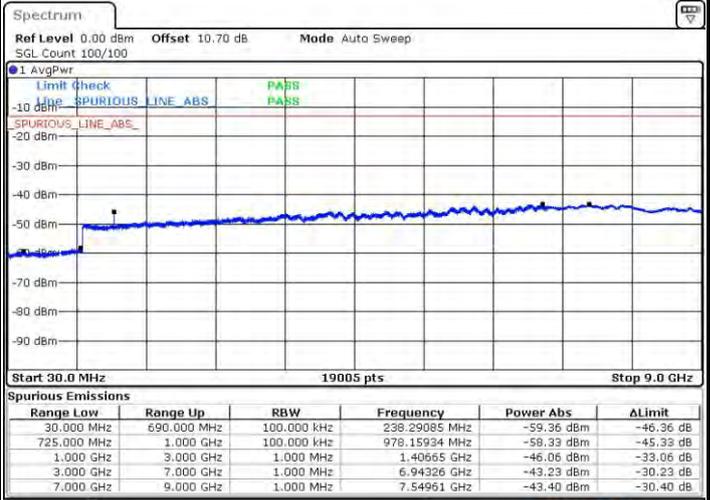
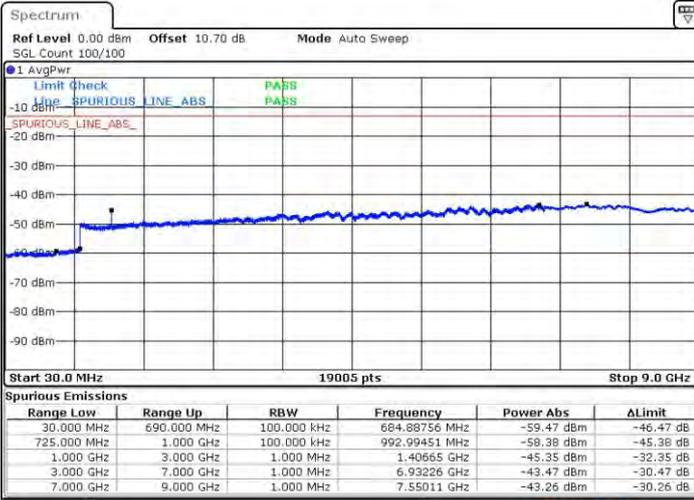
Date: 21 AUG 2019 19:59:03



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

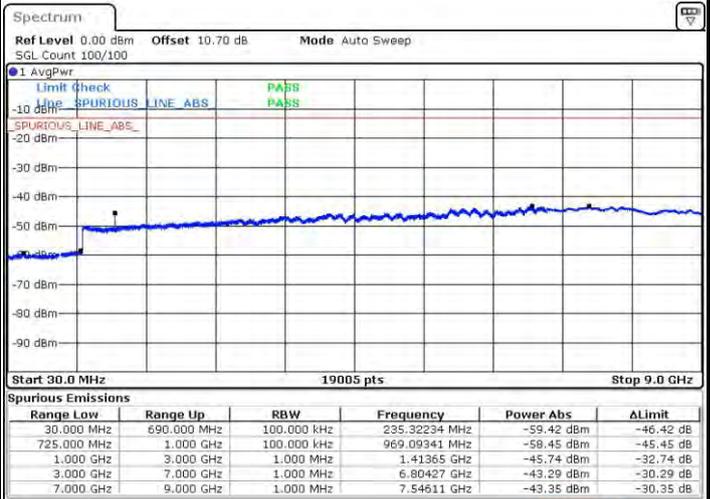
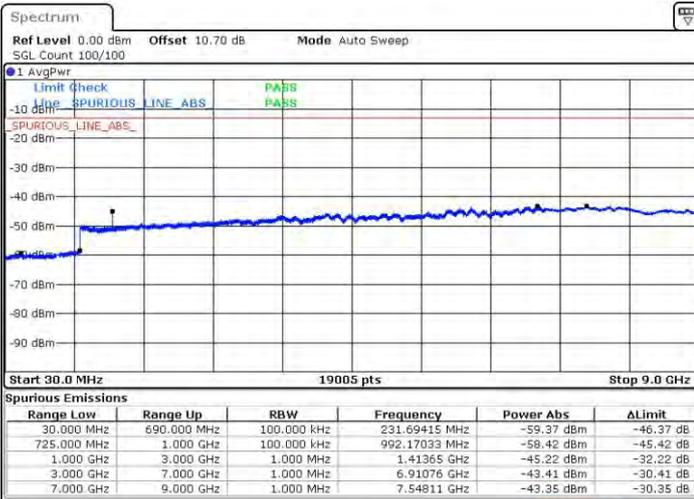


Date: 21 AUG 2019 20:01:21

Date: 21 AUG 2019 20:00:36

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 21 AUG 2019 20:07:02

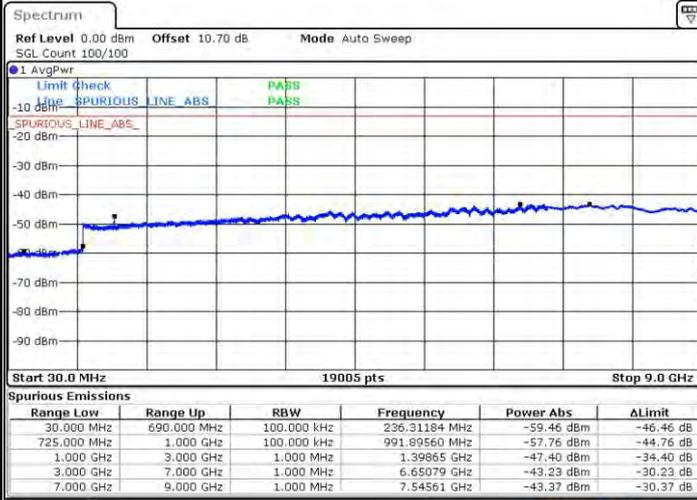
Date: 21 AUG 2019 20:07:48



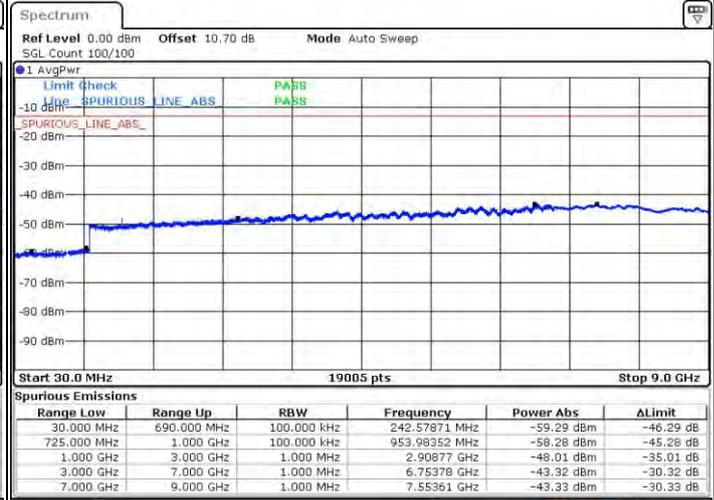
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

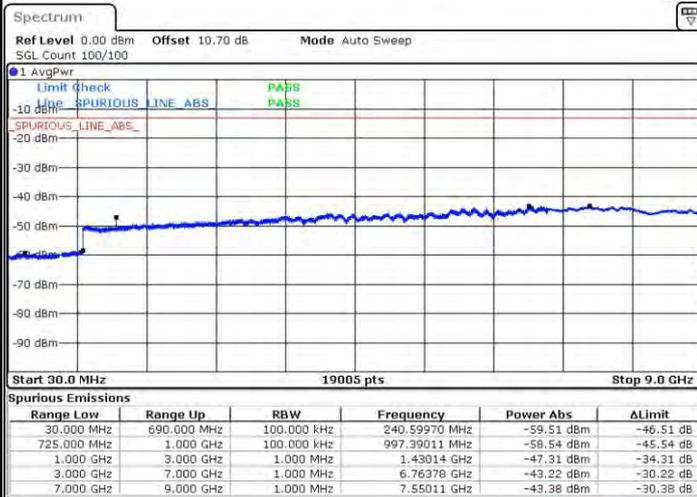


Date: 21 AUG 2019 20:35:25



Date: 21 AUG 2019 20:36:34

Highest Channel / 64QAM



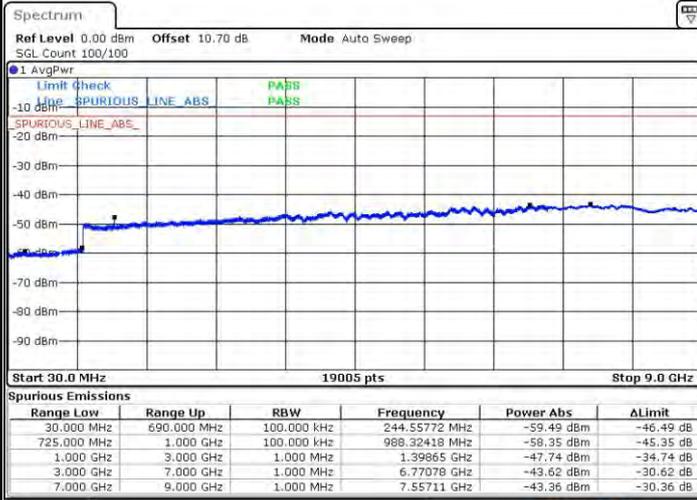
Date: 21 AUG 2019 20:39:48



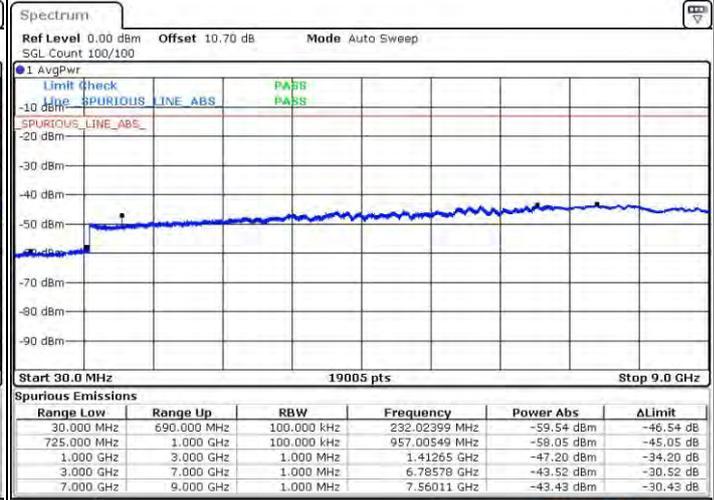
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

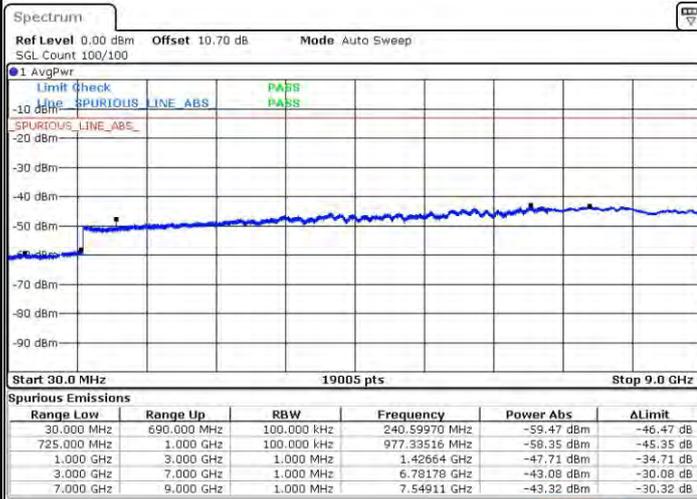


Date: 21 AUG 2019 19:08:10



Date: 21 AUG 2019 19:09:20

Highest Channel / 64QAM

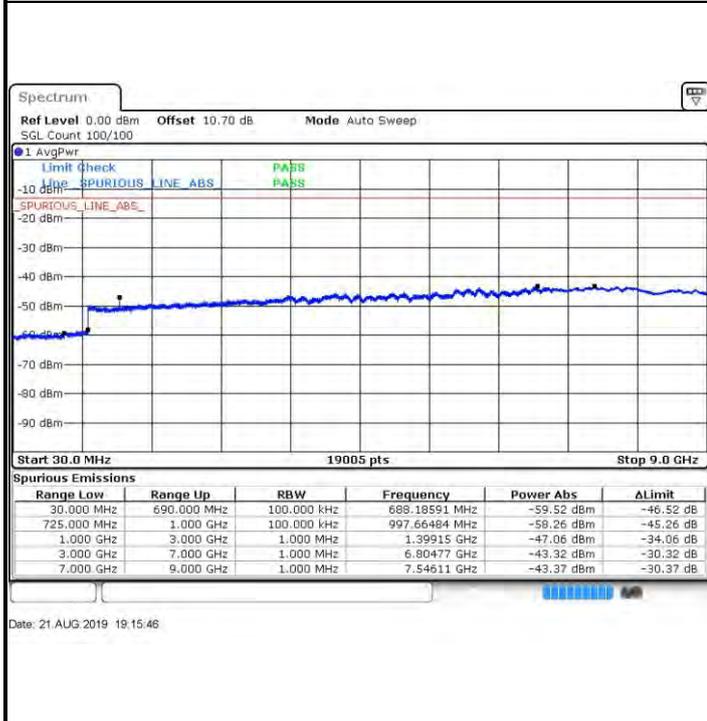


Date: 21 AUG 2019 19:12:32

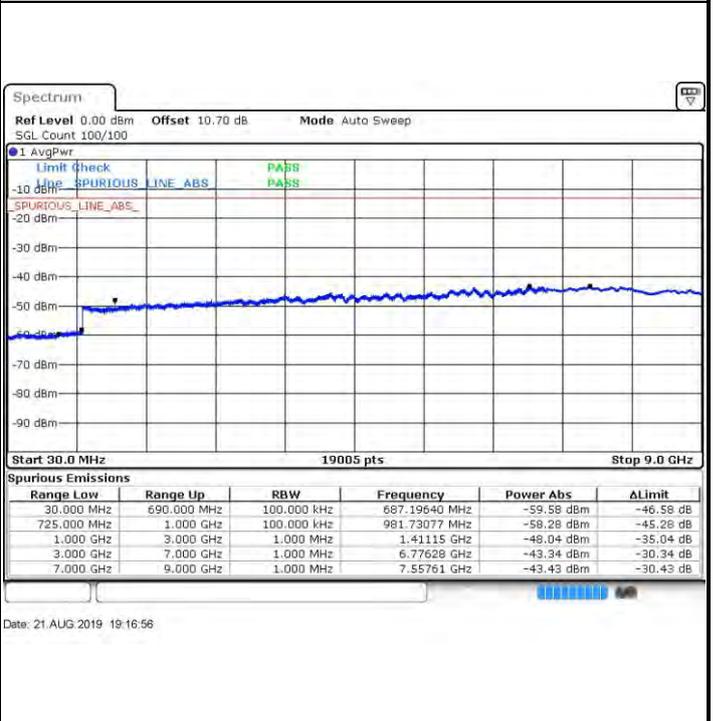


**LTE Band 12 / 5MHz**

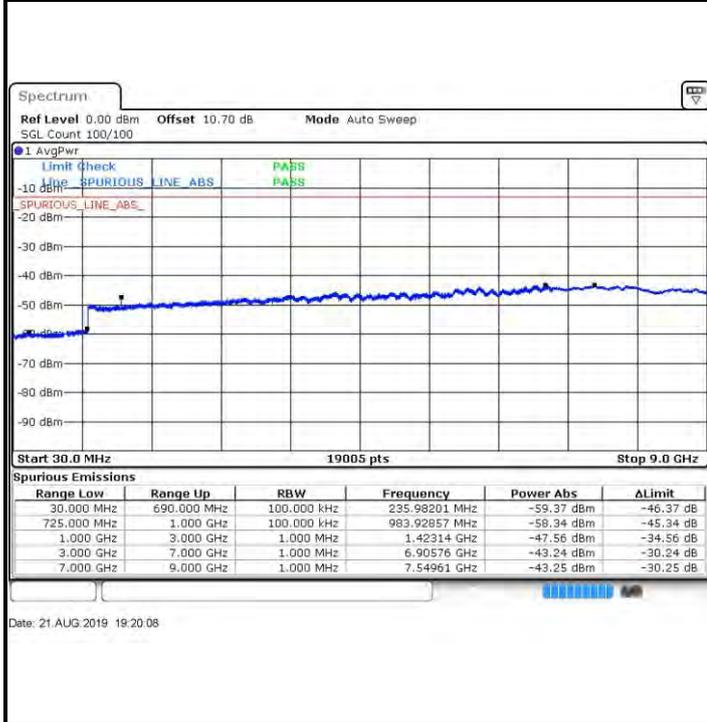
**Lowest Channel / 64QAM**



**Middle Channel / 64QAM**

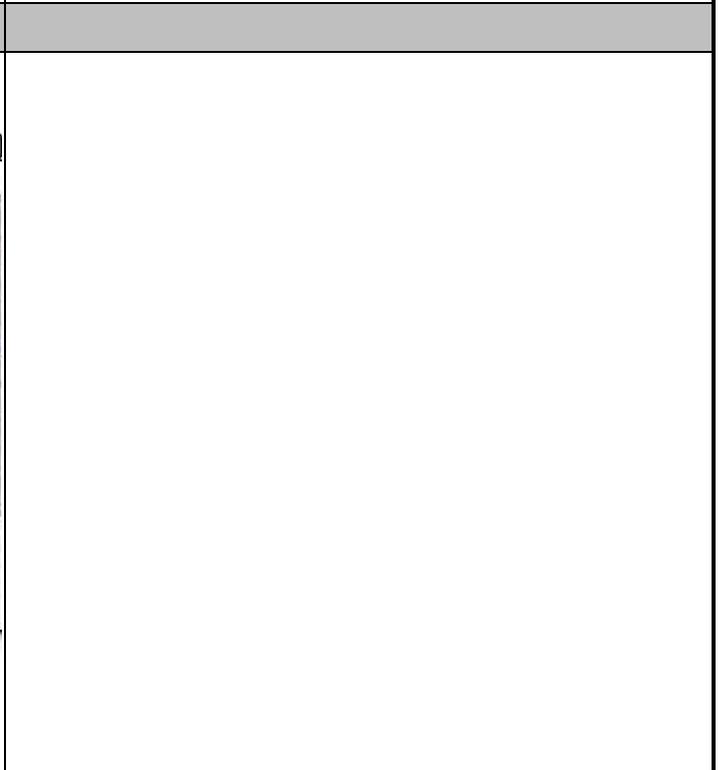
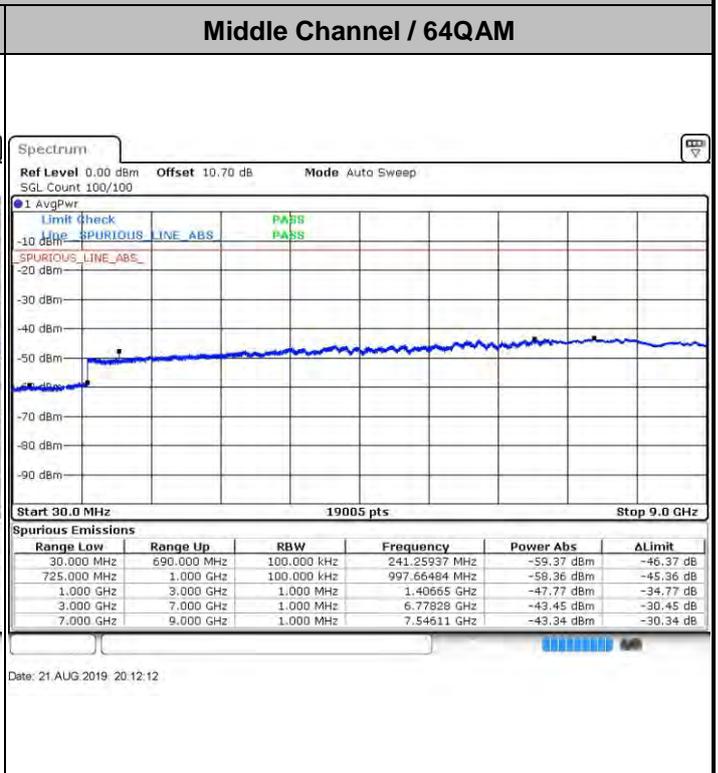
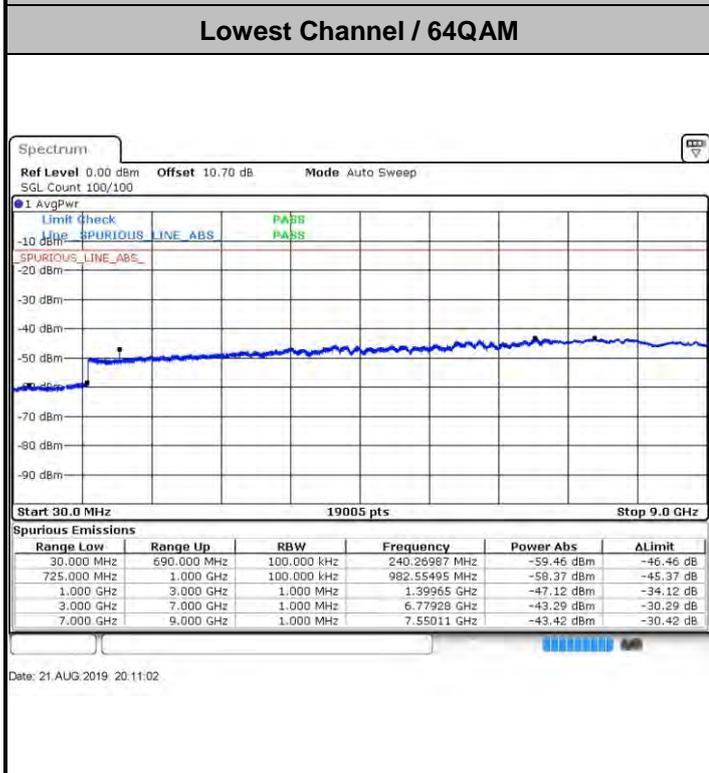


**Highest Channel / 64QAM**





**LTE Band 12 / 10MHz**





**Frequency Stability**

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0105	PASS
40	Normal Voltage	0.0130	
30	Normal Voltage	0.0099	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0106	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0110	
-20	Normal Voltage	0.0092	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0098	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 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	3.33	4.67	4.87	5.77	PASS
Middle CH	3.39	4.70	4.93	5.88	
Highest CH	3.39	4.75	5.10	5.97	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.55	6.35	-	-	PASS
Middle CH	5.94	6.32	-	-	
Highest CH	5.80	6.35	-	-	



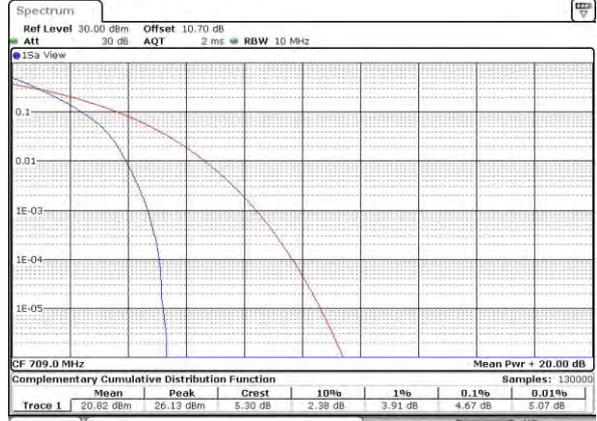
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 21.AUG.2019 21:44:15

Lowest Channel / Full RB



Date: 21.AUG.2019 21:44:28

Middle Channel / 1RB



Date: 21.AUG.2019 21:44:43

Middle Channel / Full RB



Date: 21.AUG.2019 21:44:56

Highest Channel / 1RB



Date: 21.AUG.2019 21:45:08

Highest Channel / Full RB



Date: 21.AUG.2019 21:45:21



LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 21.AUG.2019 21:42:54

Lowest Channel / Full RB



Date: 21.AUG.2019 21:43:06

Middle Channel / 1RB



Date: 21.AUG.2019 21:43:21

Middle Channel / Full RB



Date: 21.AUG.2019 21:43:39

Highest Channel / 1RB



Date: 21.AUG.2019 21:43:51

Highest Channel / Full RB

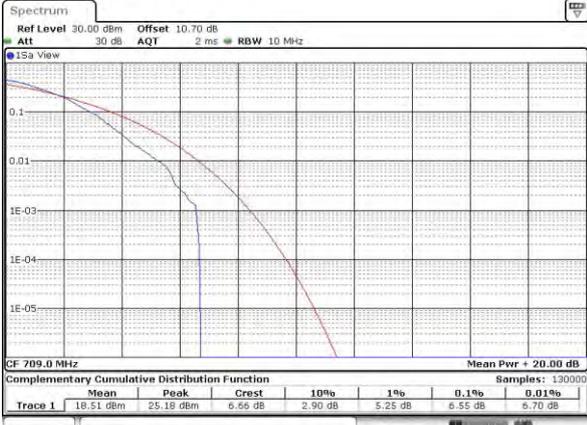


Date: 21.AUG.2019 21:44:04



LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



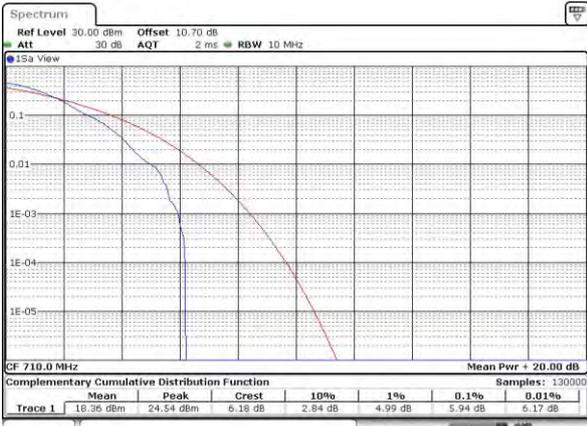
Date: 21.AUG.2019 21:45:45

Lowest Channel / Full RB



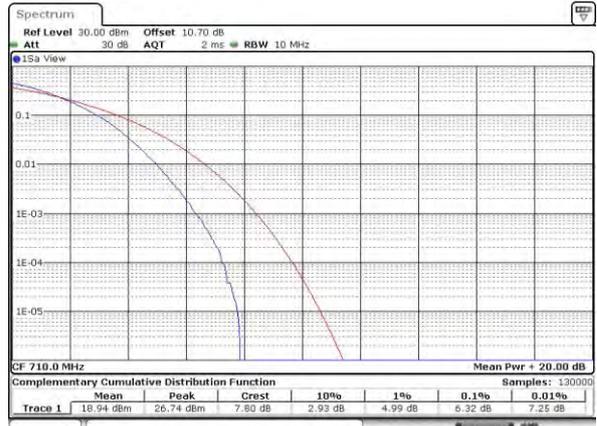
Date: 21.AUG.2019 21:46:00

Middle Channel / 1RB



Date: 21.AUG.2019 21:46:18

Middle Channel / Full RB



Date: 21.AUG.2019 21:46:30

Highest Channel / 1RB



Date: 21.AUG.2019 21:46:46

Highest Channel / Full RB



Date: 21.AUG.2019 21:46:59



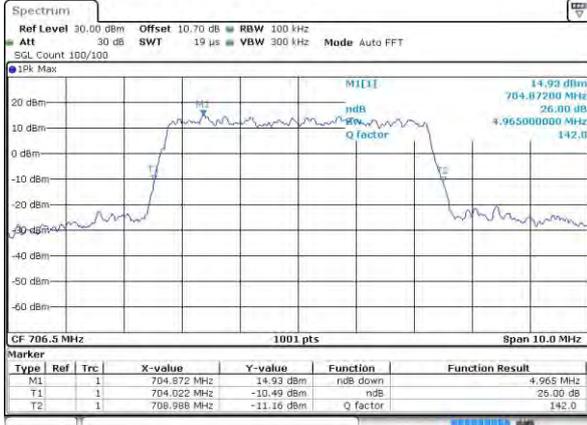
**26dB Bandwidth**

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	-	-	-	-	4.97	4.95	9.89	9.91	-	-	-	-
Middle CH	-	-	-	-	4.95	4.94	9.83	9.69	-	-	-	-
Highest CH	-	-	-	-	4.87	4.93	9.77	9.85	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.85	-	9.77	-	-	-	-	-
Middle CH	-	-	-	-	4.96	-	9.83	-	-	-	-	-
Highest CH	-	-	-	-	4.93	-	9.83	-	-	-	-	-



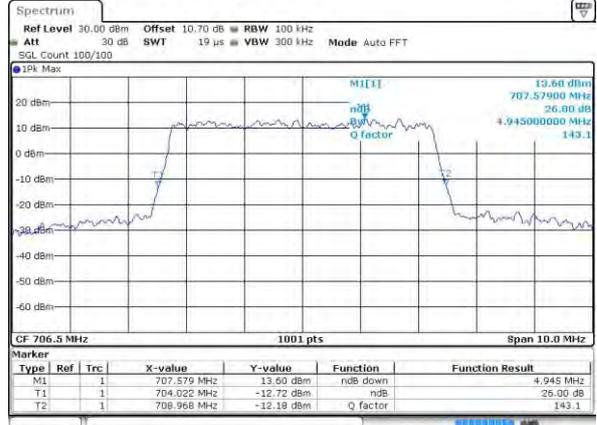
LTE Band 17

Lowest Channel / 5MHz / QPSK



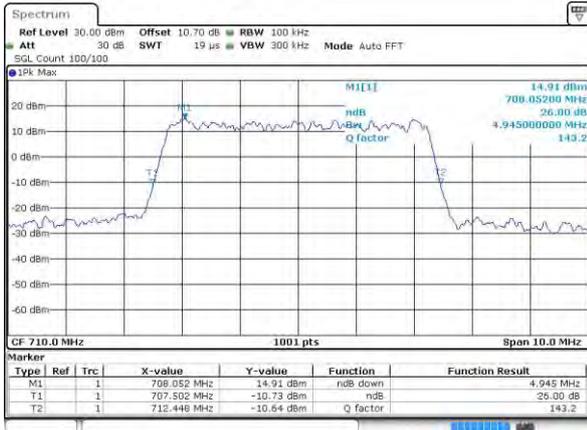
Date: 21.AUG.2019 20:56:55

Lowest Channel / 5MHz / 16QAM



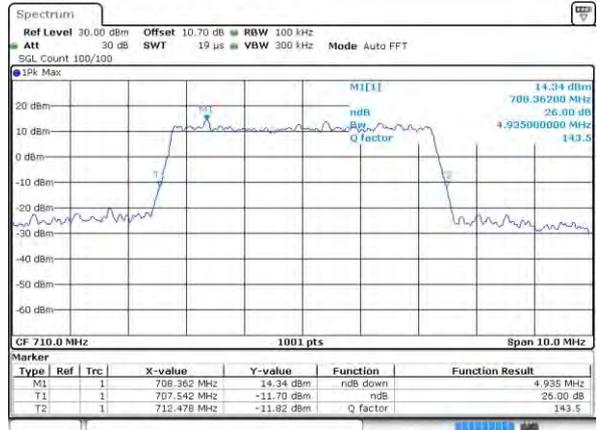
Date: 21.AUG.2019 20:57:07

Middle Channel / 5MHz / QPSK



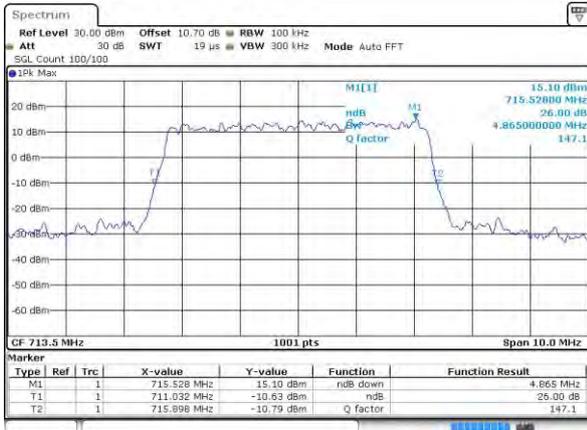
Date: 21.AUG.2019 21:03:20

Middle Channel / 5MHz / 16QAM



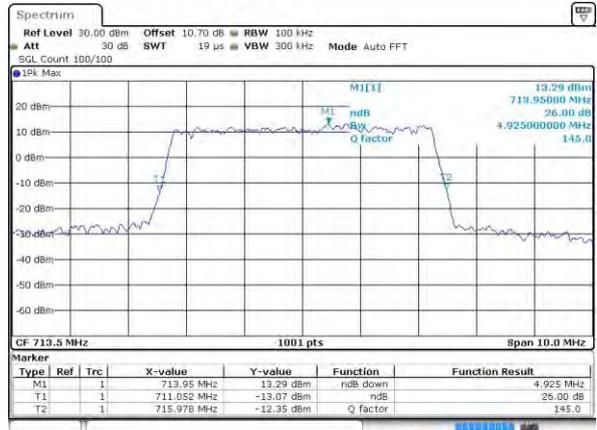
Date: 21.AUG.2019 21:03:32

Highest Channel / 5MHz / QPSK



Date: 21.AUG.2019 21:05:41

Highest Channel / 5MHz / 16QAM

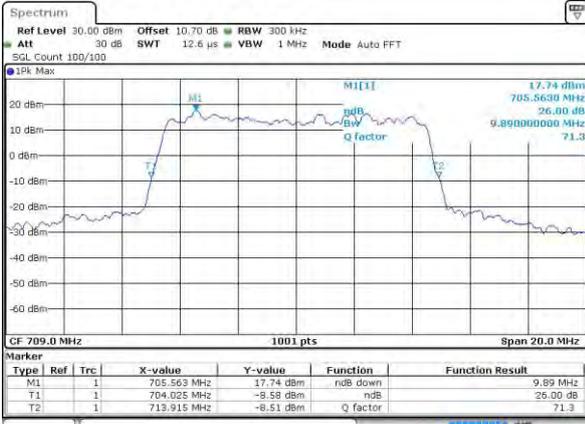


Date: 21.AUG.2019 21:05:53



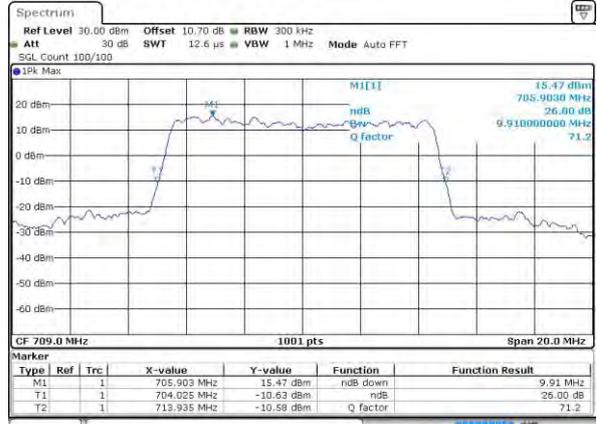
LTE Band 17

Lowest Channel / 10MHz / QPSK



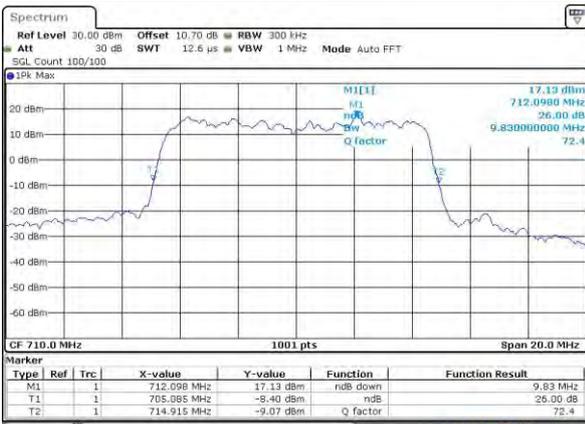
Date: 21.AUG.2019 21:12:08

Lowest Channel / 10MHz / 16QAM



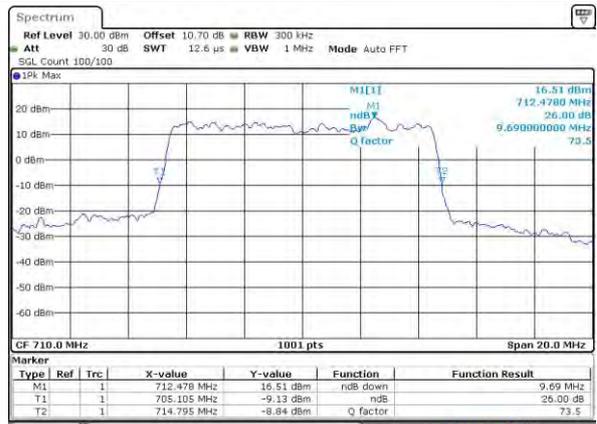
Date: 21.AUG.2019 21:12:21

Middle Channel / 10MHz / QPSK



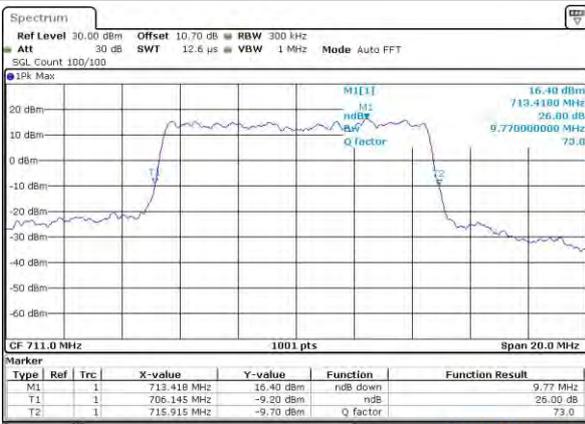
Date: 21.AUG.2019 21:18:34

Middle Channel / 10MHz / 16QAM



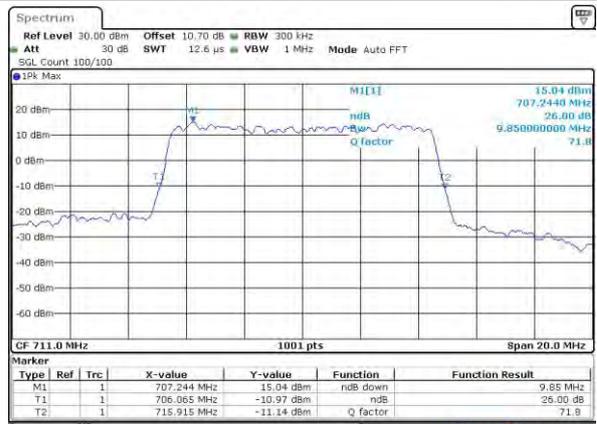
Date: 21.AUG.2019 21:18:46

Highest Channel / 10MHz / QPSK



Date: 21.AUG.2019 21:20:54

Highest Channel / 10MHz / 16QAM

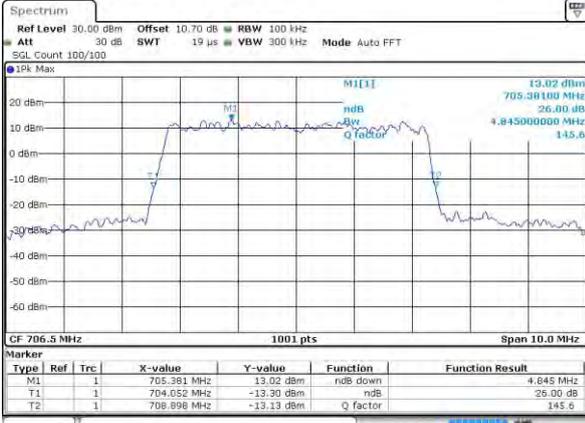


Date: 21.AUG.2019 21:21:07



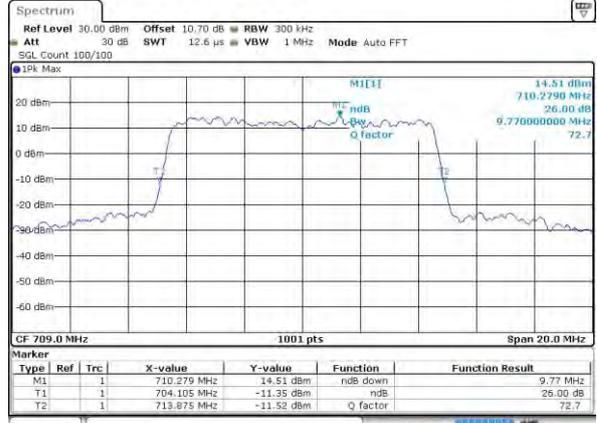
LTE Band 17

Lowest Channel / 5MHz / 64QAM



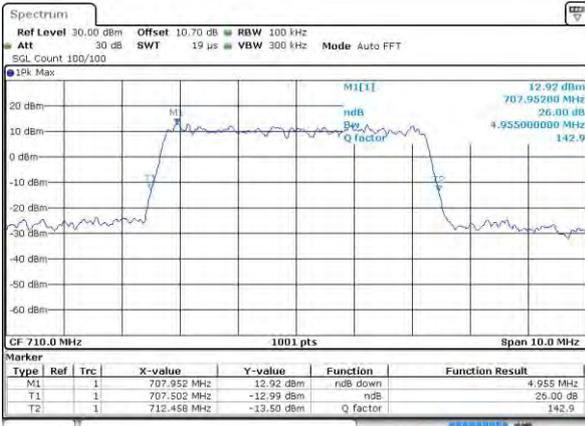
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Lowest Channel / 10MHz / 64QAM



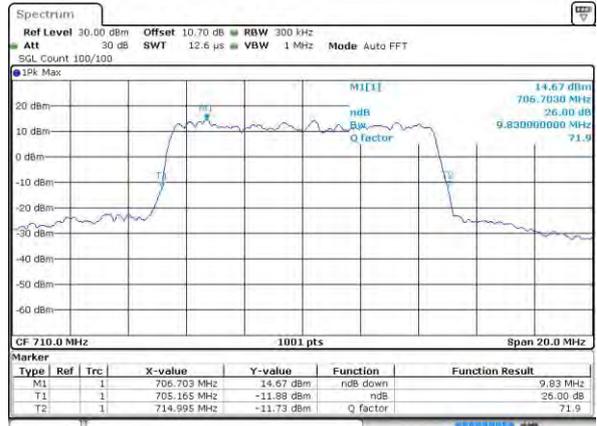
Date: 21.AUG.2019 21:34:45

Middle Channel / 5MHz / 64QAM



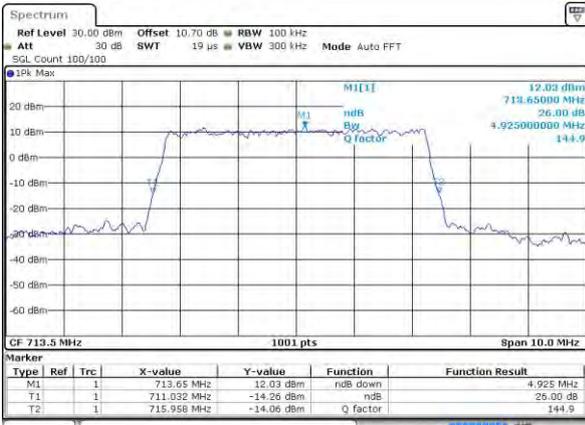
Date: 21.AUG.2019 21:30:22

Middle Channel / 10MHz / 64QAM



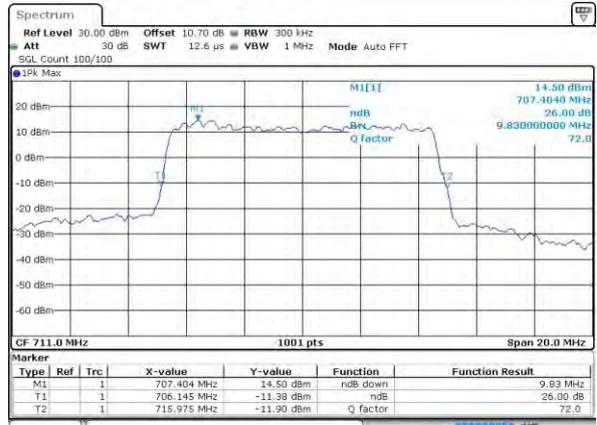
Date: 21.AUG.2019 21:37:58

Highest Channel / 5MHz / 64QAM



Date: 21.AUG.2019 21:31:32

Highest Channel / 10MHz / 64QAM



Date: 21.AUG.2019 21:39:08



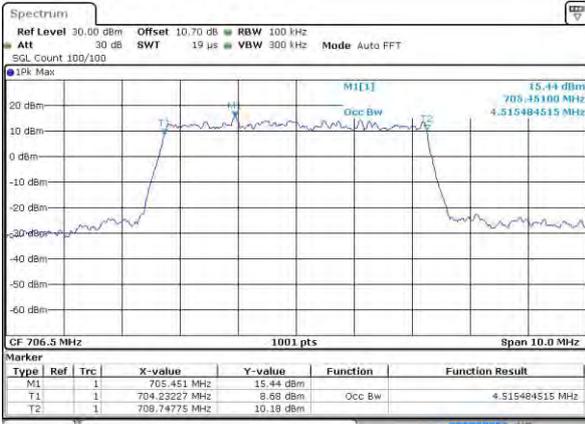
**Occupied Bandwidth**

LTE Band 17 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.52	4.49	9.05	9.07	-	-	-	-
Middle CH	-	-	-	-	4.51	4.50	9.05	9.05	-	-	-	-
Highest CH	-	-	-	-	4.51	4.51	9.05	8.99	-	-	-	-
LTE Band 17 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.11	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	9.05	-	-	-	-	-



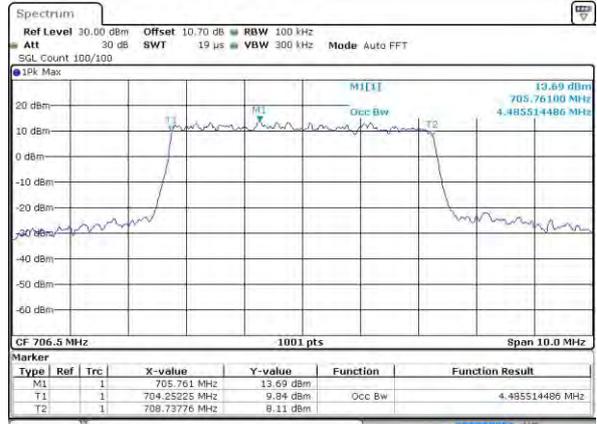
LTE Band 17

Lowest Channel / 5MHz / QPSK



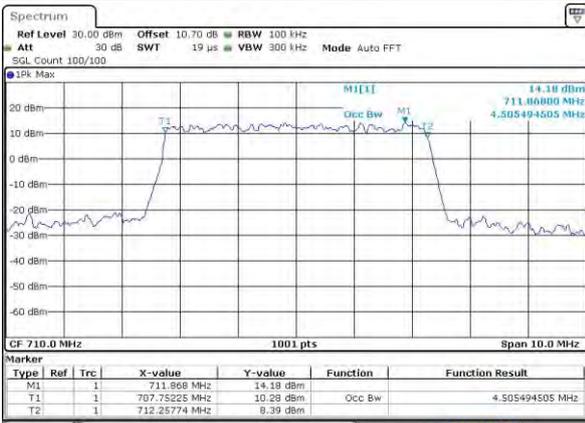
Date: 21.AUG.2019 20:56:30

Lowest Channel / 5MHz / 16QAM



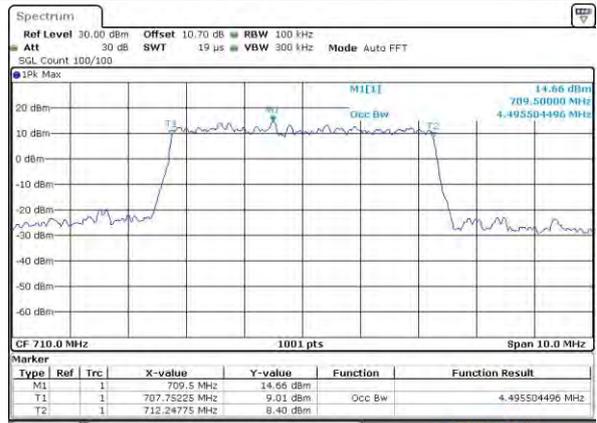
Date: 21.AUG.2019 20:56:42

Middle Channel / 5MHz / QPSK



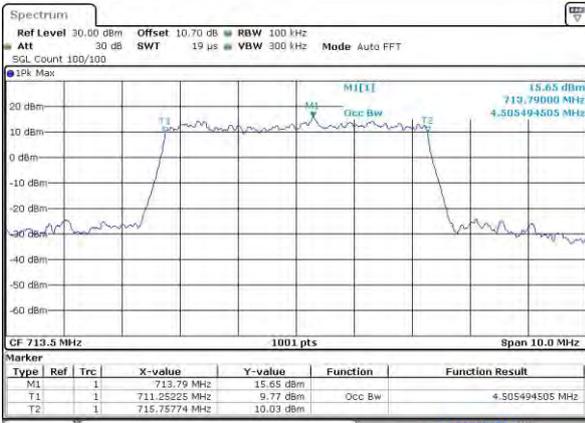
Date: 21.AUG.2019 21:02:56

Middle Channel / 5MHz / 16QAM



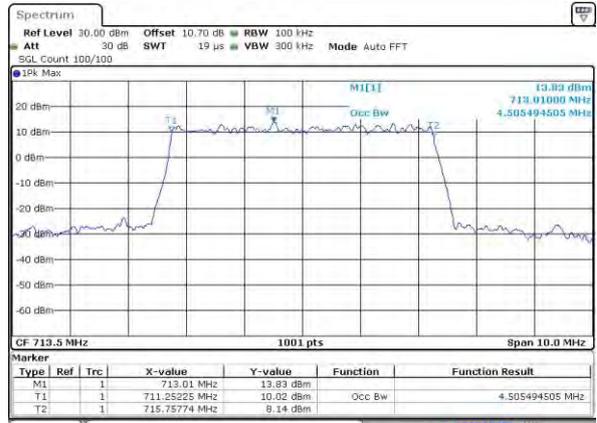
Date: 21.AUG.2019 21:03:08

Highest Channel / 5MHz / QPSK



Date: 21.AUG.2019 21:05:16

Highest Channel / 5MHz / 16QAM

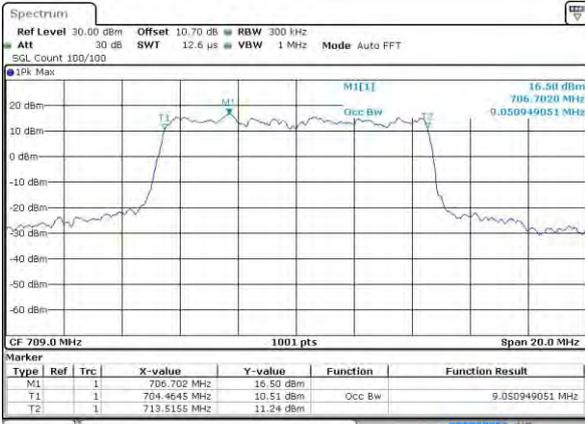


Date: 21.AUG.2019 21:05:28



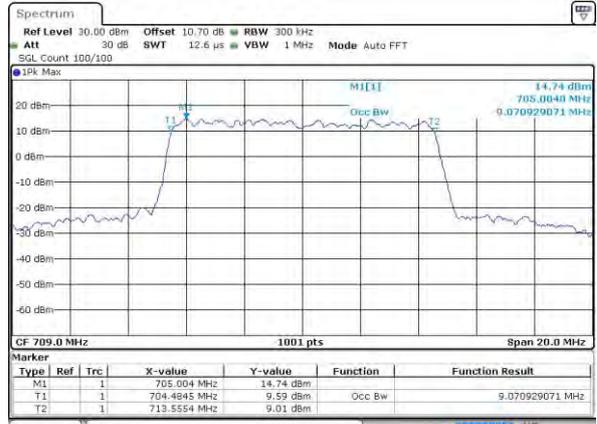
LTE Band 17

Lowest Channel / 10MHz / QPSK



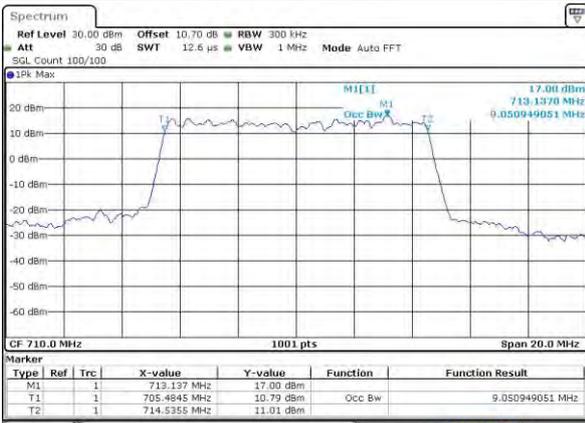
Date: 21.AUG.2019 21:11:43

Lowest Channel / 10MHz / 16QAM



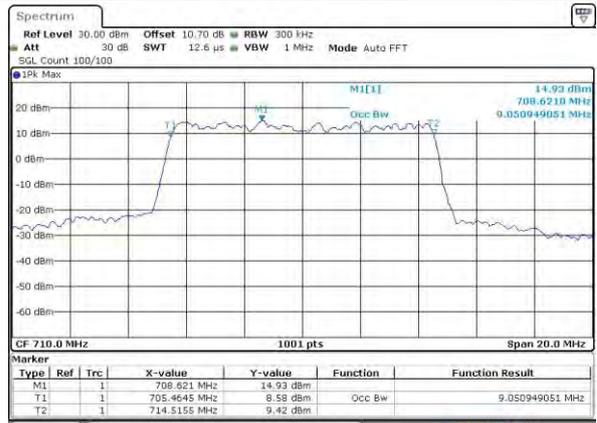
Date: 21.AUG.2019 21:11:56

Middle Channel / 10MHz / QPSK



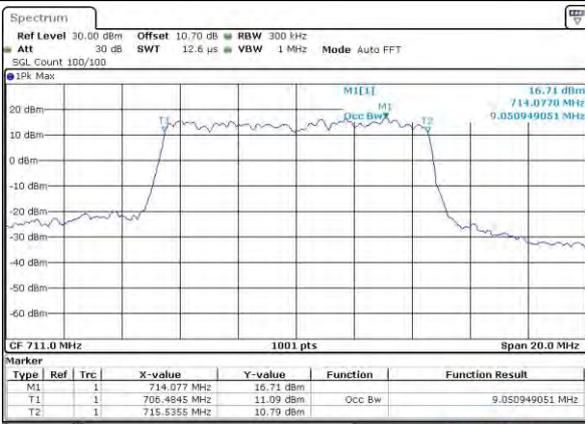
Date: 21.AUG.2019 21:18:10

Middle Channel / 10MHz / 16QAM



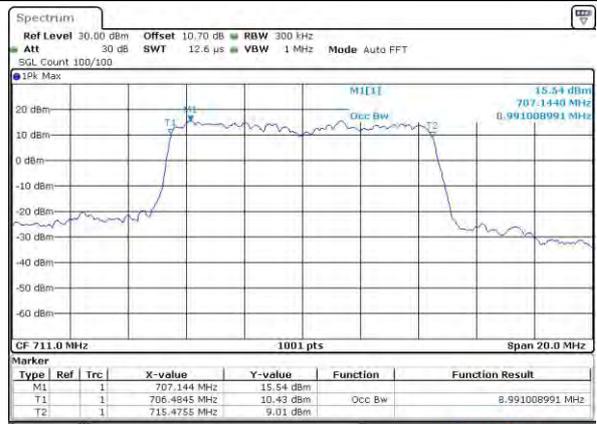
Date: 21.AUG.2019 21:18:22

Highest Channel / 10MHz / QPSK



Date: 21.AUG.2019 21:20:28

Highest Channel / 10MHz / 16QAM

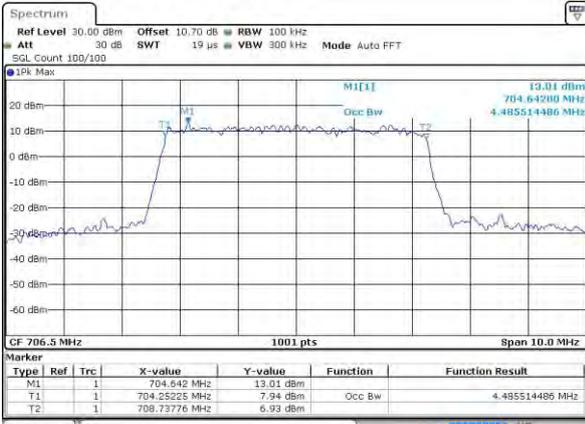


Date: 21.AUG.2019 21:20:42



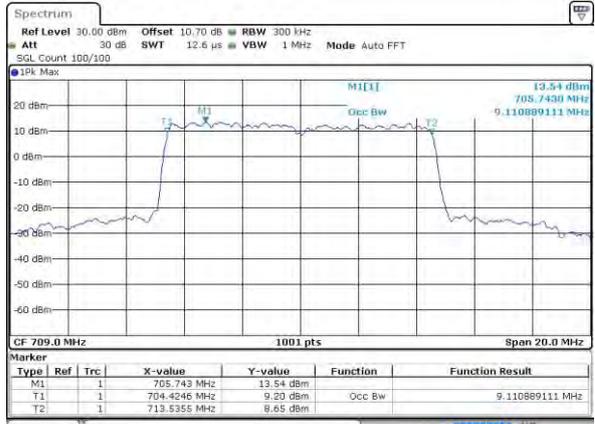
LTE Band 17

Lowest Channel / 5MHz / 64QAM



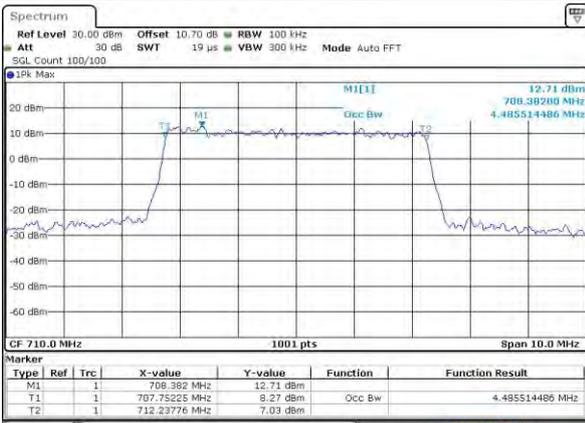
Date: 21.AUG.2019 21:26:57

Lowest Channel / 10MHz / 64QAM



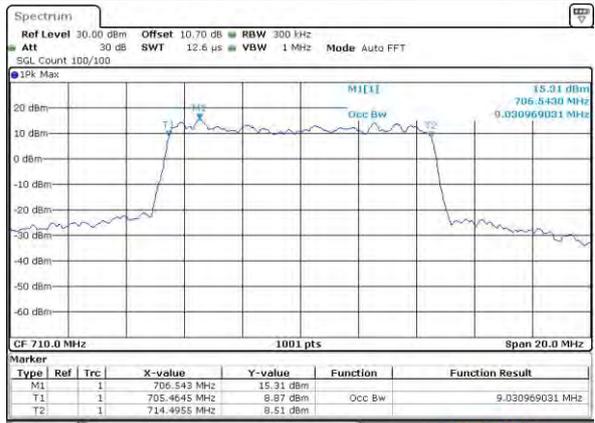
Date: 21.AUG.2019 21:34:33

Middle Channel / 5MHz / 64QAM



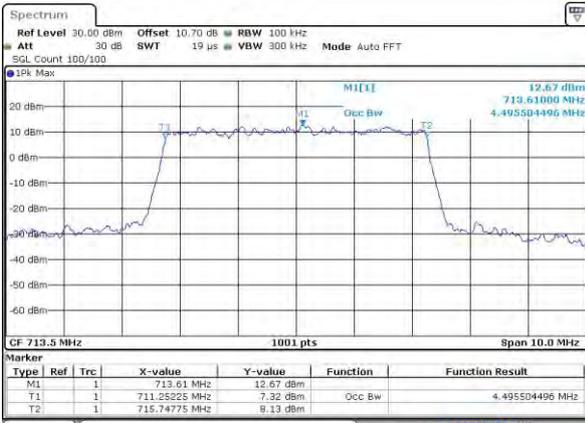
Date: 21.AUG.2019 21:30:10

Middle Channel / 10MHz / 64QAM



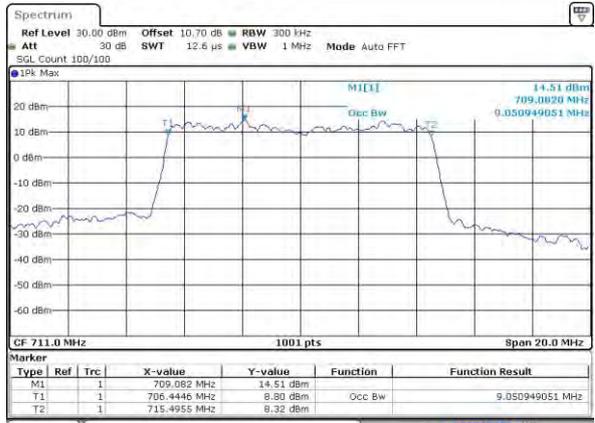
Date: 21.AUG.2019 21:37:46

Highest Channel / 5MHz / 64QAM



Date: 21.AUG.2019 21:31:19

Highest Channel / 10MHz / 64QAM



Date: 21.AUG.2019 21:38:56

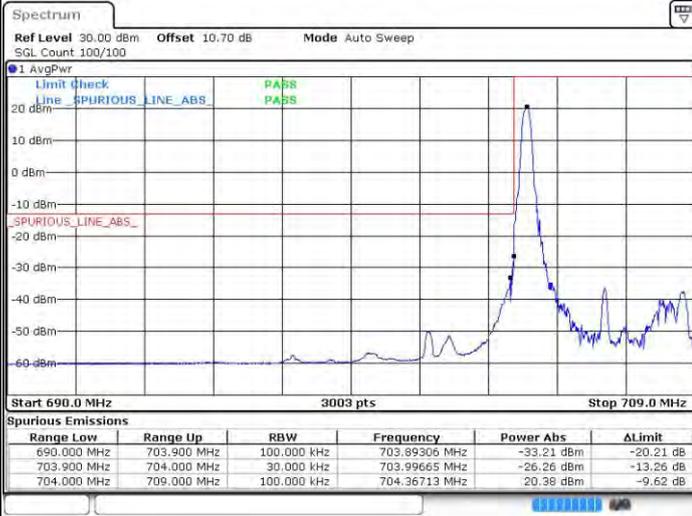


Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

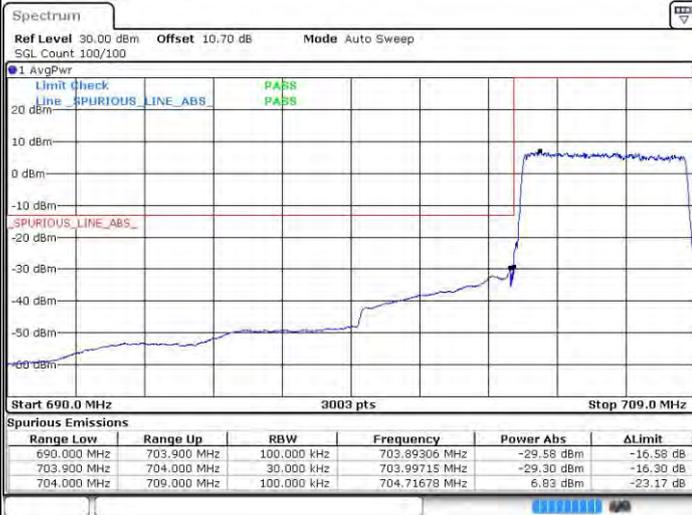
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

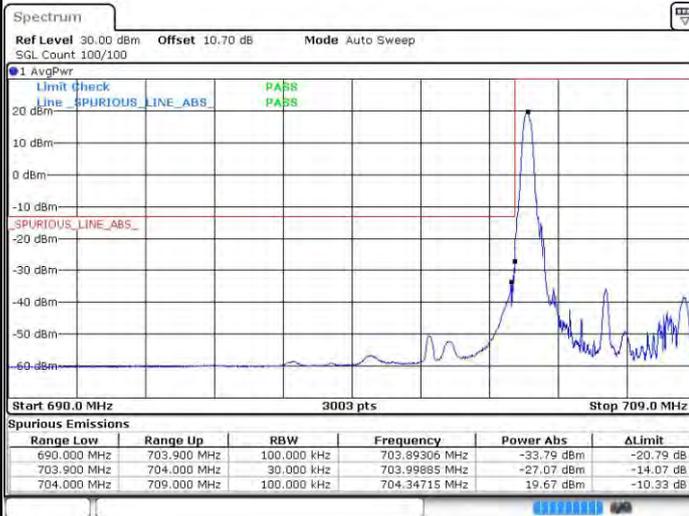
Highest Band Edge / Full RB





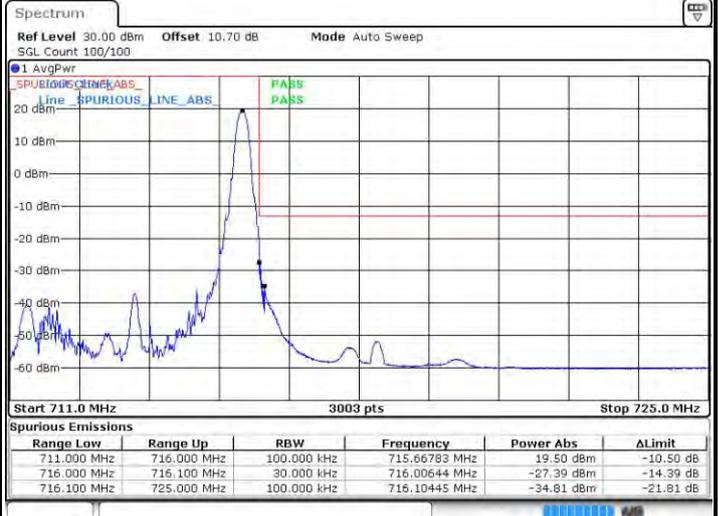
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 21 AUG.2019 20:59:09

Highest Band Edge / 1 RB



Date: 21 AUG.2019 21:07:55

Lowest Band Edge / Full RB



Date: 21 AUG.2019 21:01:11

Highest Band Edge / Full RB

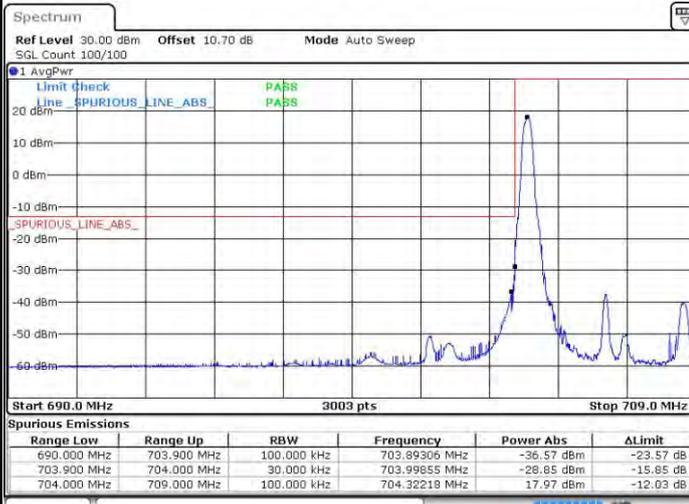


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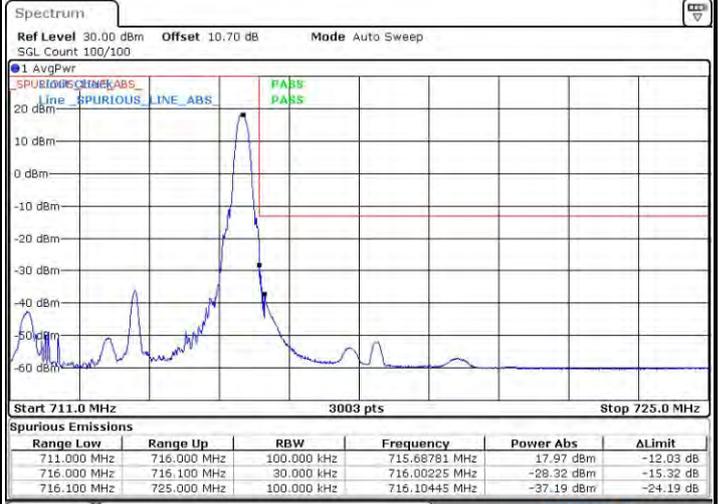
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 21 AUG.2019 21:28:10

Highest Band Edge / 1 RB



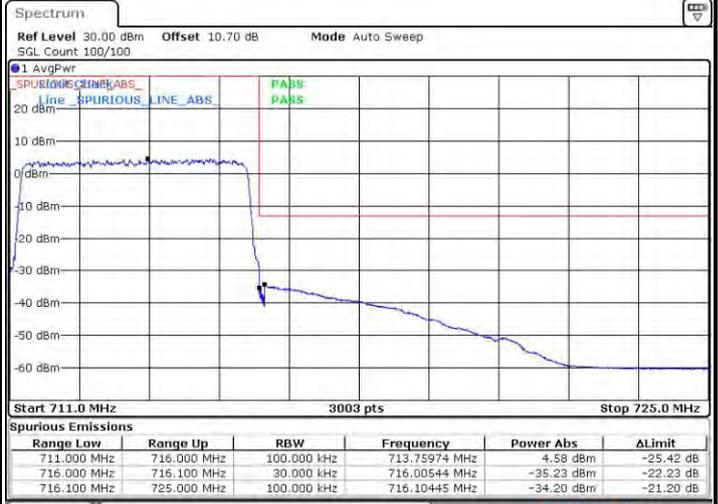
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Lowest Band Edge / Full RB



Date: 21 AUG.2019 21:29:11

Highest Band Edge / Full RB

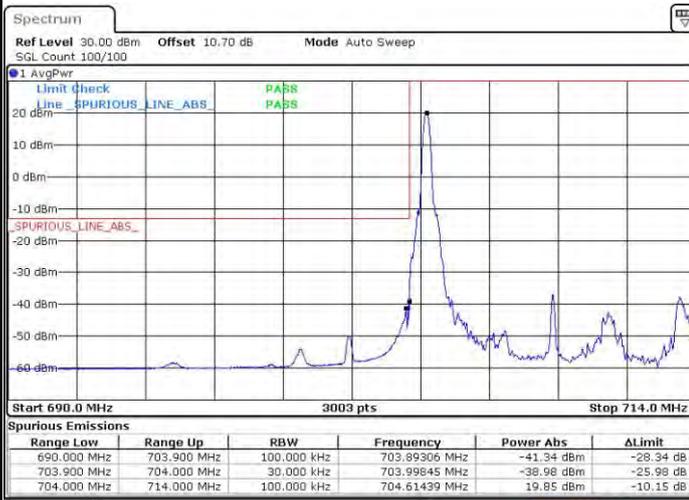


Date: 21 AUG.2019 21:33:34



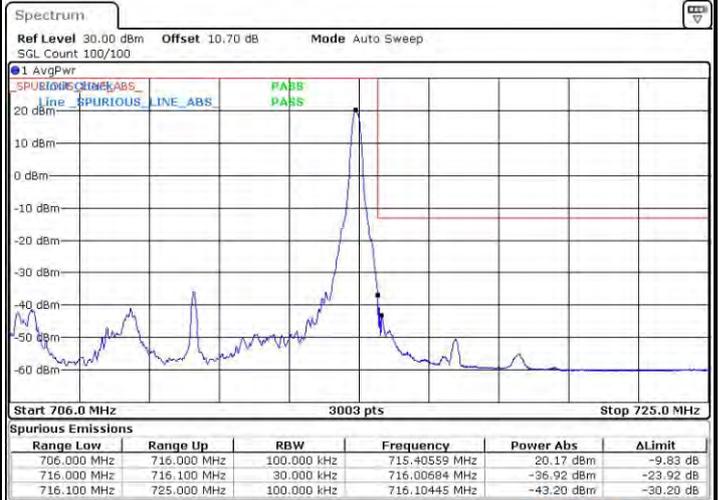
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



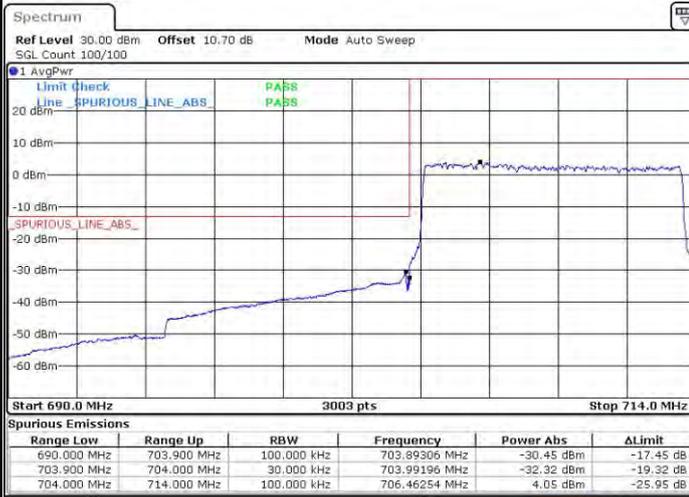
Date: 21 AUG.2019 21:13:22

Highest Band Edge / 1 RB



Date: 21 AUG.2019 21:22:07

Lowest Band Edge / Full RB



Date: 21 AUG.2019 21:15:24

Highest Band Edge / Full RB

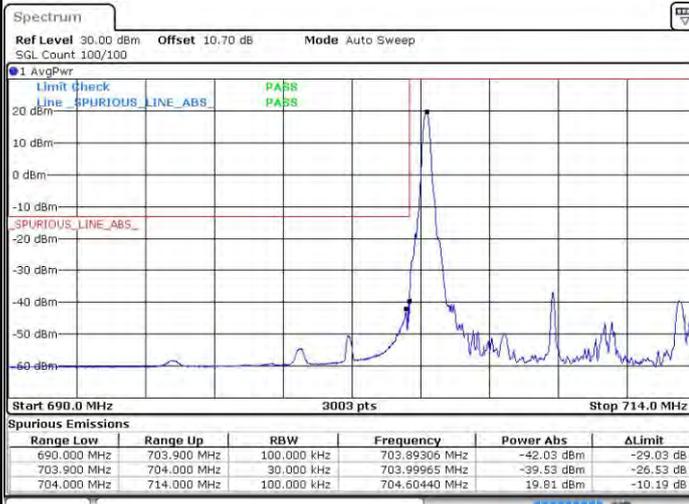


Date: 21 AUG.2019 21:24:10



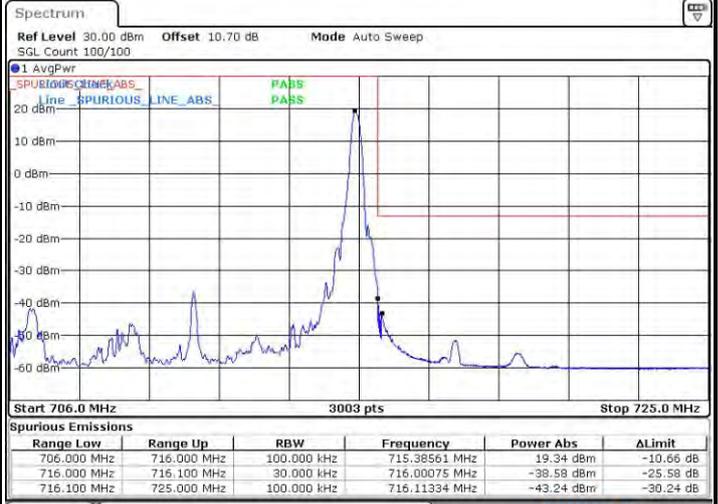
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



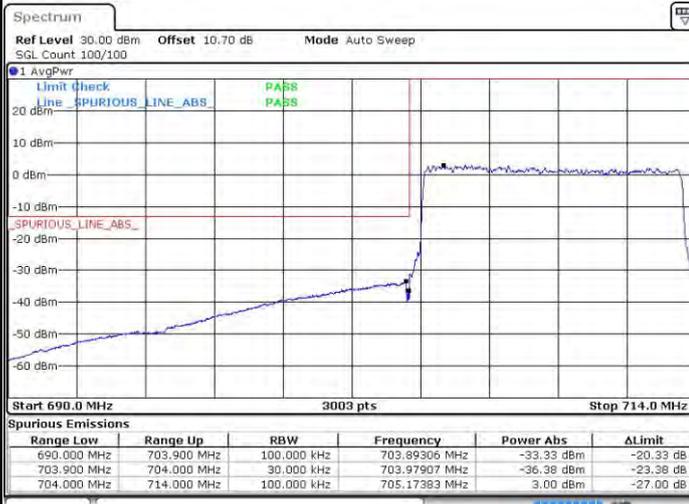
Date: 21 AUG.2019 21:14:23

Highest Band Edge / 1 RB



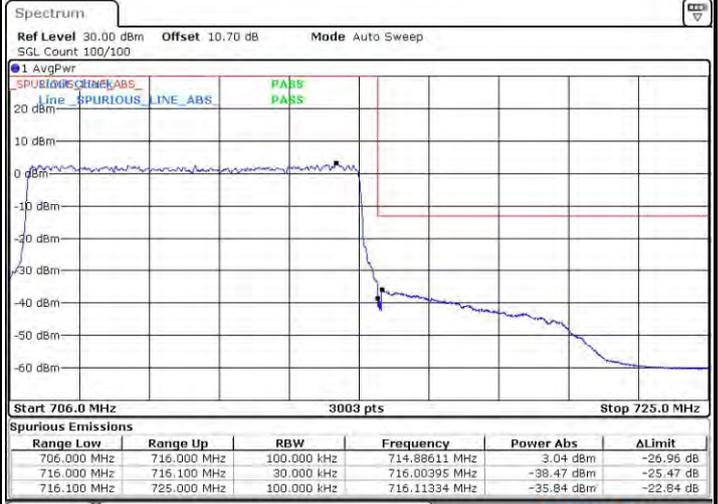
Date: 21 AUG.2019 21:23:09

Lowest Band Edge / Full RB



Date: 21 AUG.2019 21:16:25

Highest Band Edge / Full RB

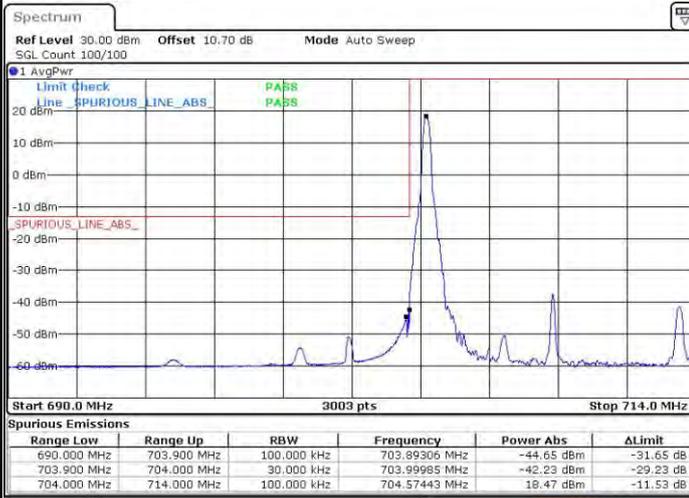


Date: 21 AUG.2019 21:25:11



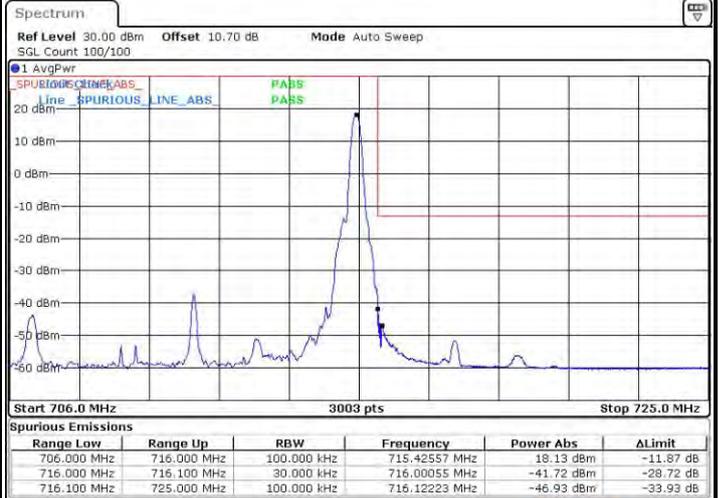
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 21 AUG.2019 21:35:46

Highest Band Edge / 1 RB



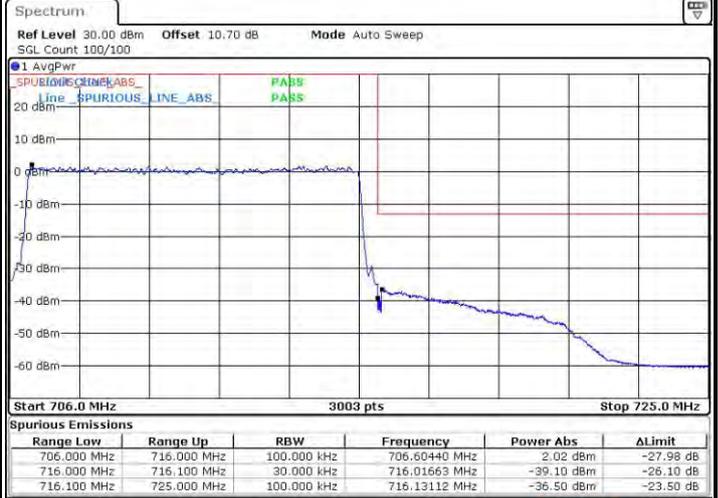
Date: 21 AUG.2019 21:40:08

Lowest Band Edge / Full RB



Date: 21 AUG.2019 21:36:47

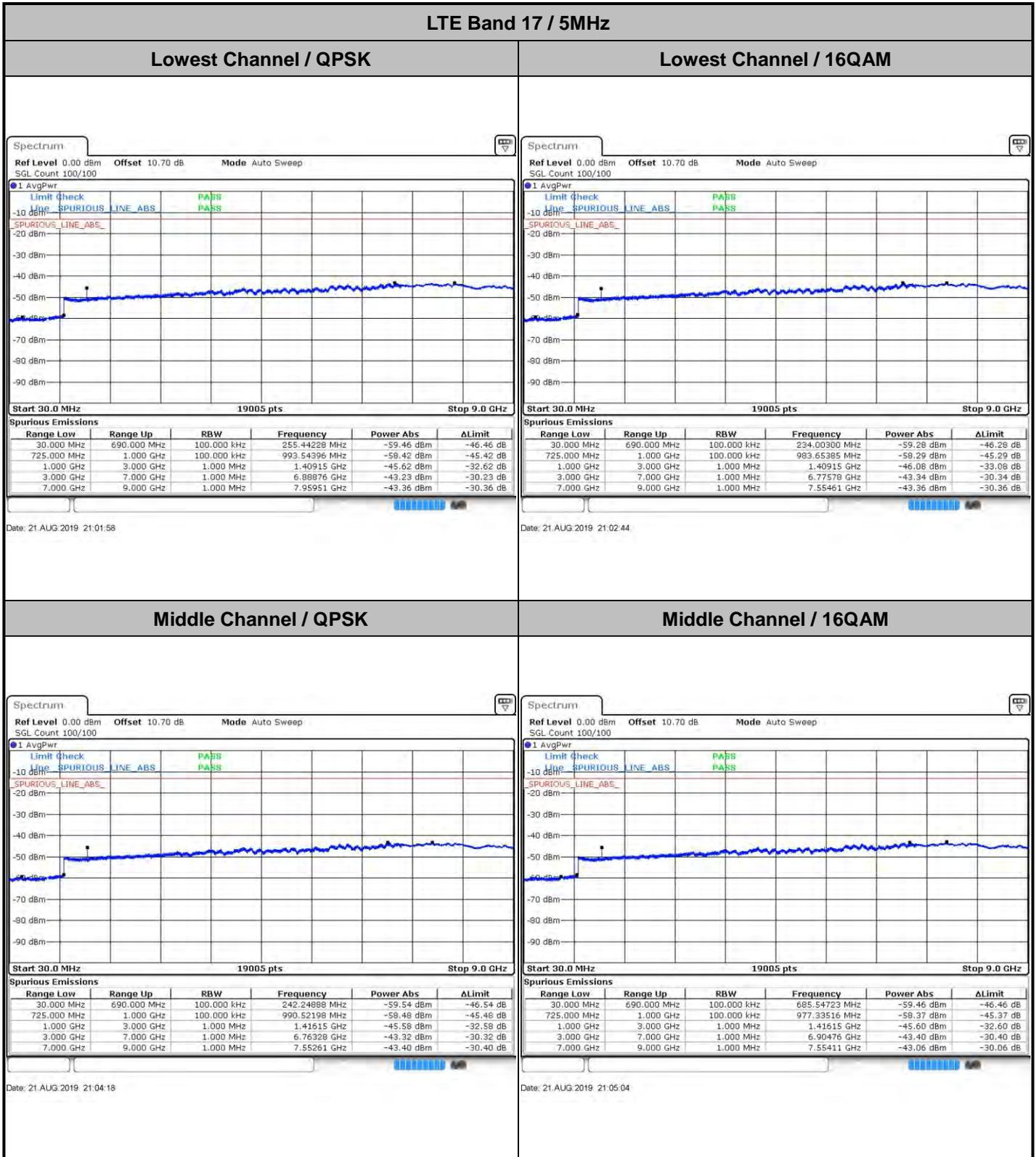
Highest Band Edge / Full RB



Date: 21 AUG.2019 21:41:10



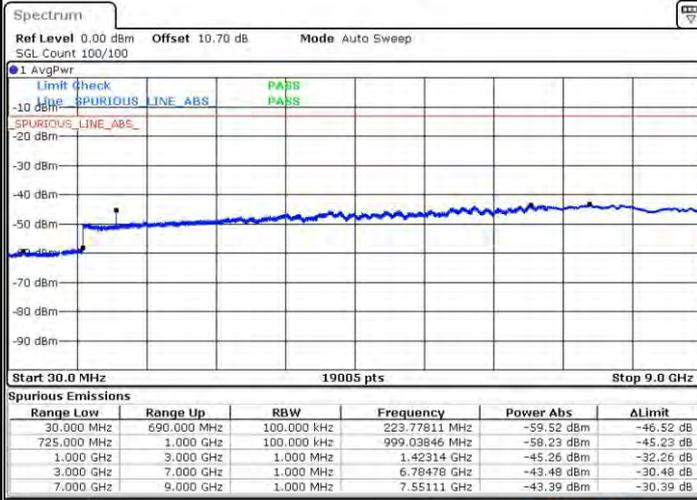
# Conducted Spurious Emission





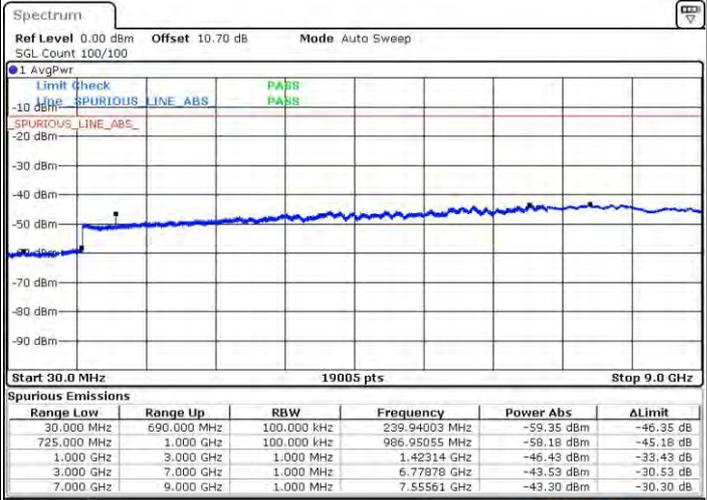
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 21 AUG 2019 21:10:44

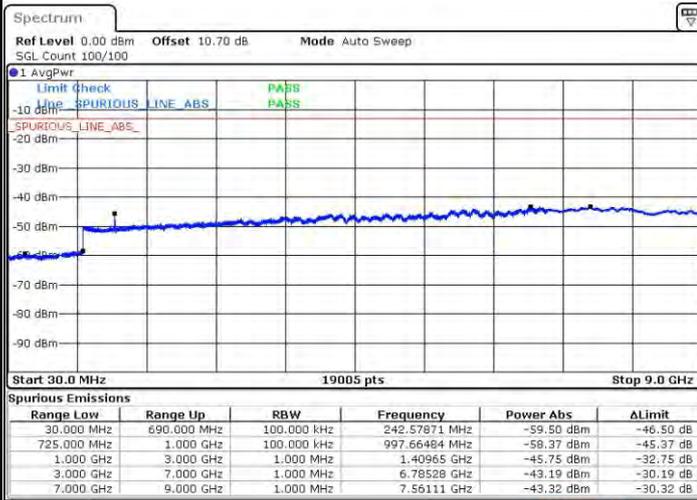
Highest Channel / 16QAM



Date: 21 AUG 2019 21:11:30

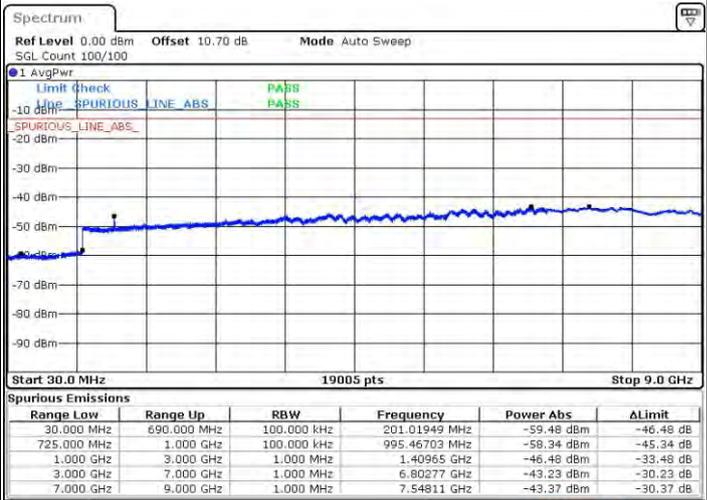
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 21 AUG 2019 21:17:12

Lowest Channel / 16QAM



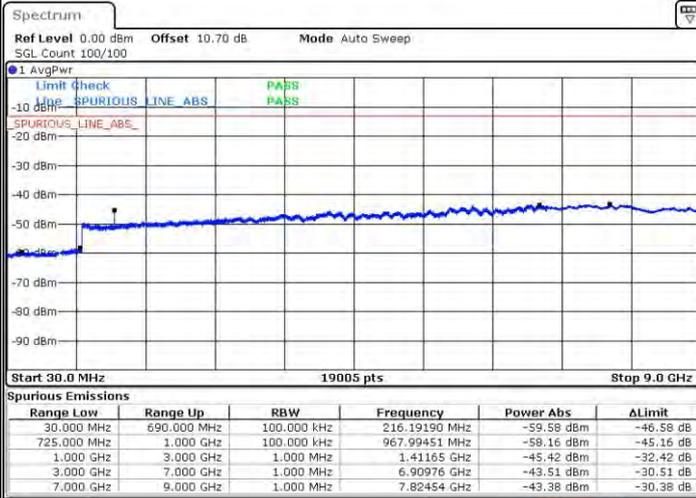
Date: 21 AUG 2019 21:17:58



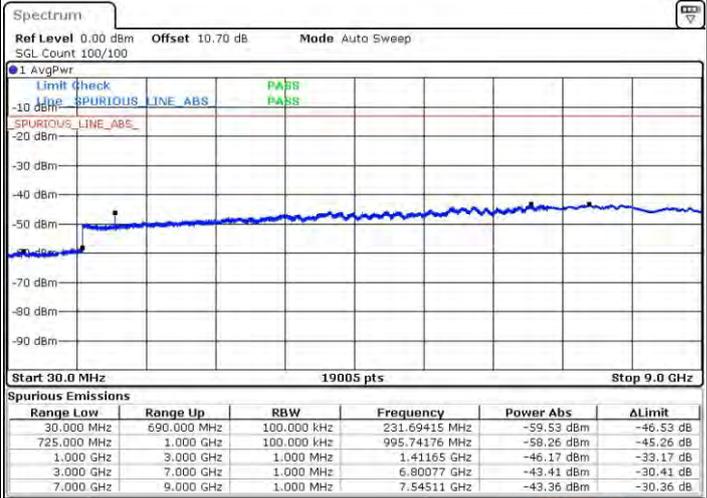
LTE Band 17 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



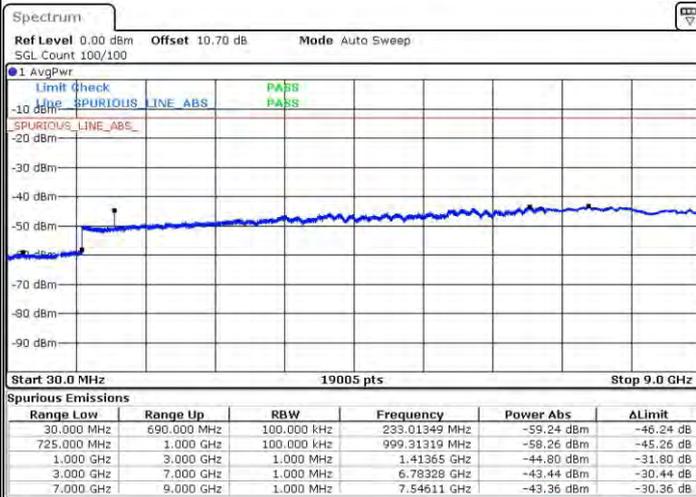
Date: 21 AUG 2019 21:19:32



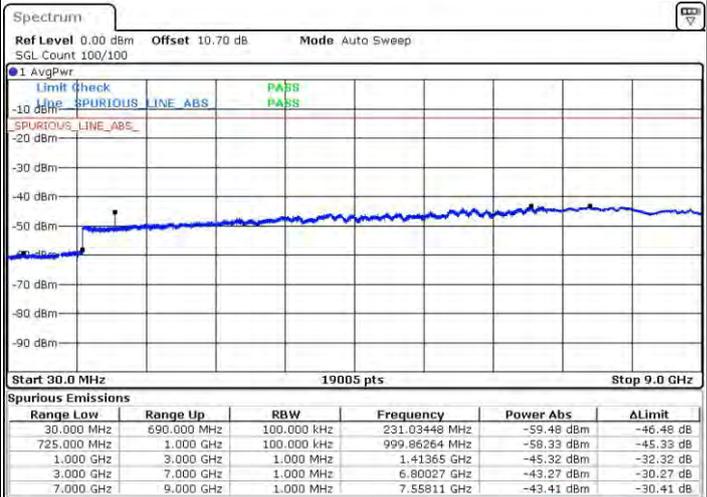
Date: 21 AUG 2019 21:20:18

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 21 AUG 2019 21:25:58

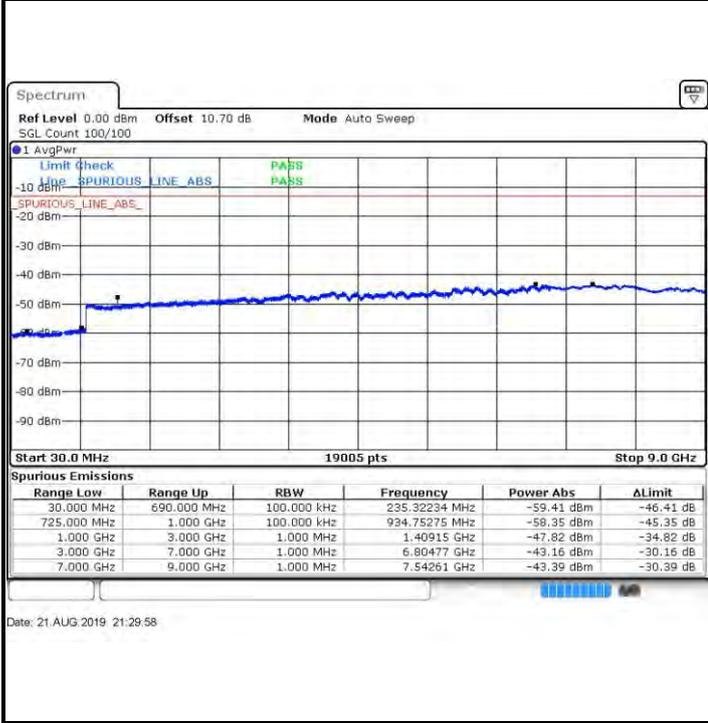


Date: 21 AUG 2019 21:26:44

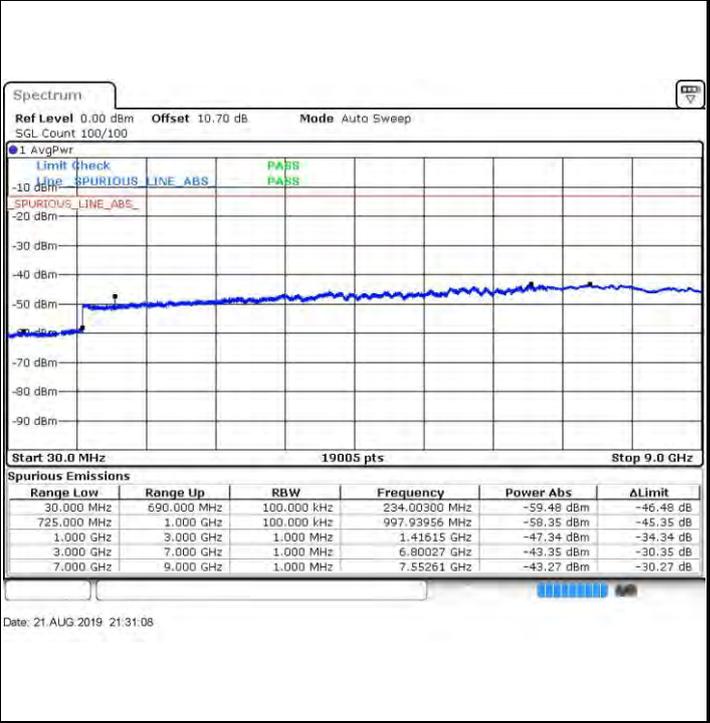


**LTE Band 17 / 5MHz**

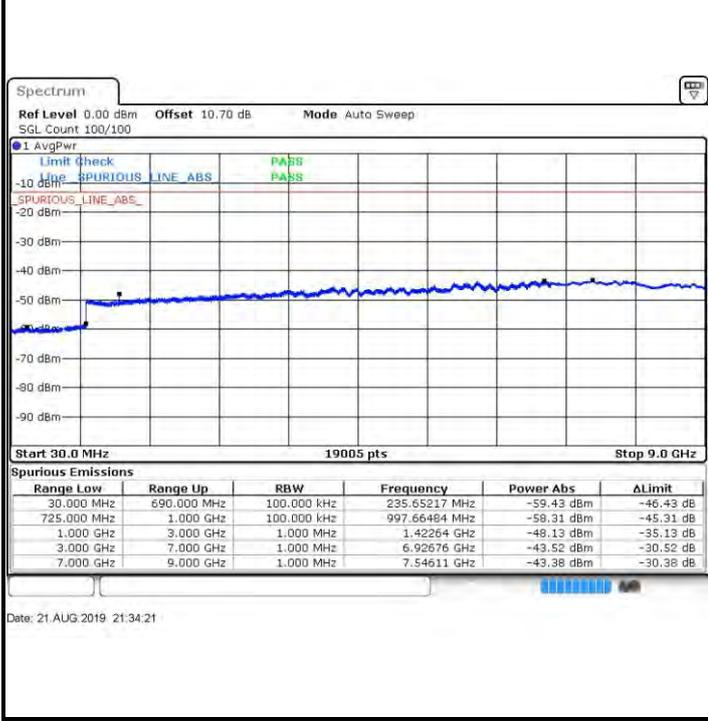
**Lowest Channel / 64QAM**



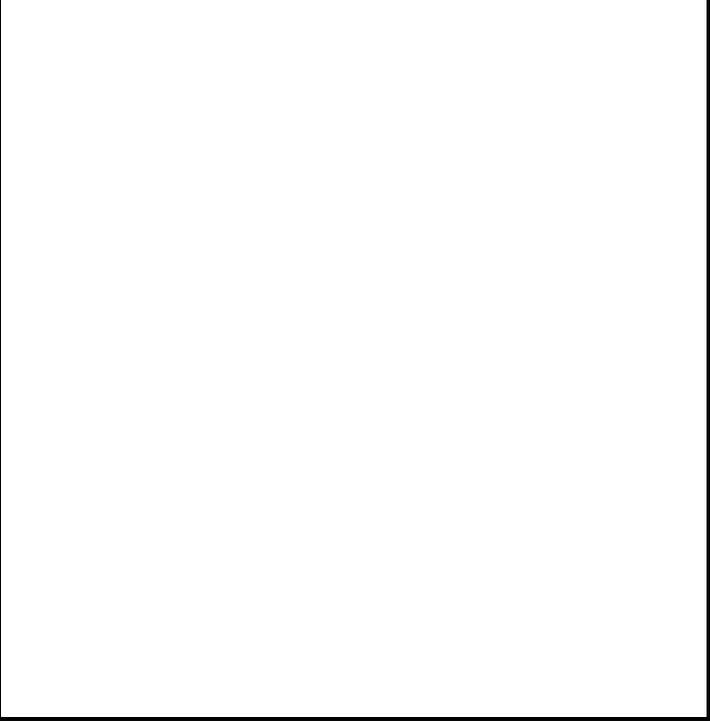
**Middle Channel / 64QAM**



**Highest Channel / 64QAM**



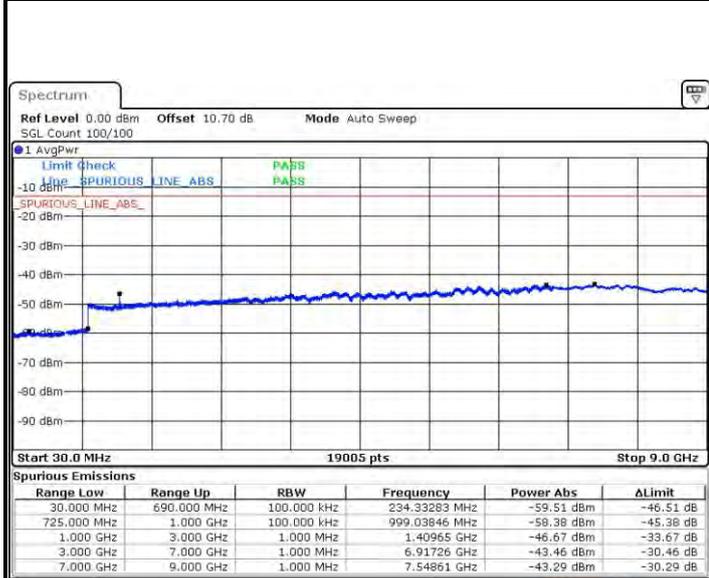
**Highest Channel / 64QAM**





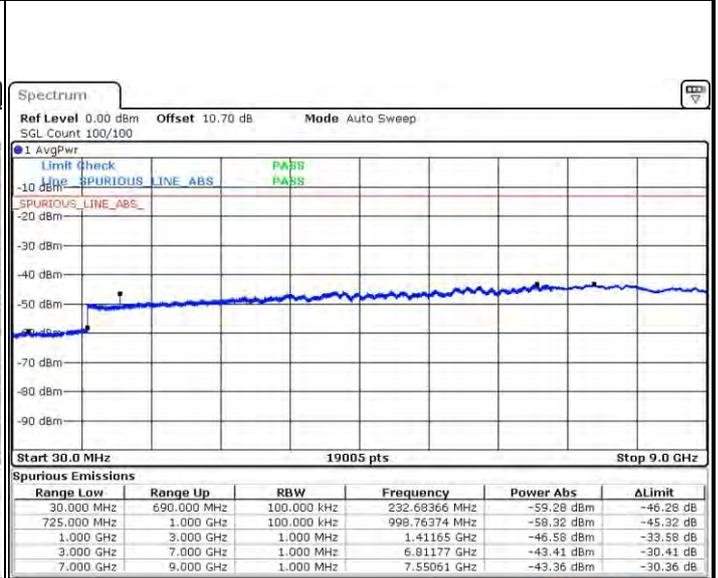
**LTE Band 17 / 10MHz**

**Lowest Channel / 64QAM**



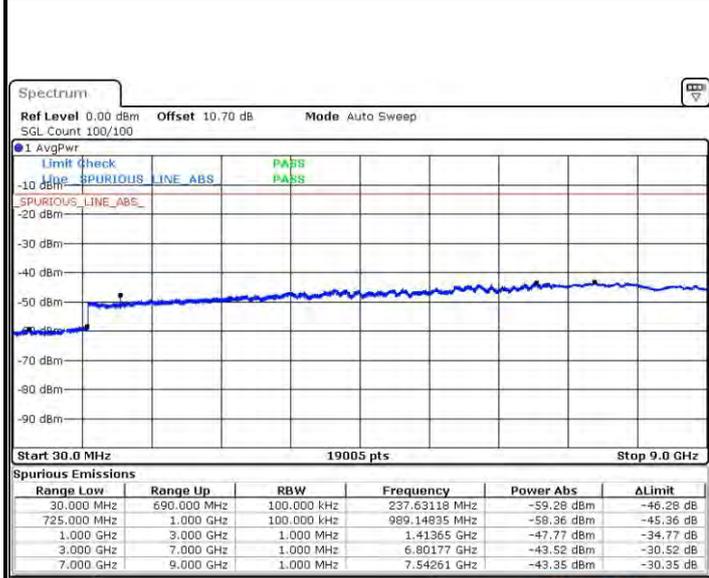
Date: 21 AUG 2019 21:37:34

**Middle Channel / 64QAM**



Date: 21 AUG 2019 21:38:44

**Highest Channel / 64QAM**



Date: 21 AUG 2019 21:41:56



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	0.0003	PASS
40	Normal Voltage	0.0118	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0137	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of ERP/EIRP and Radiated Test

### ERP/EIRP

LTE Band 2 / 1.4MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	23.54	0.2259	23.64	0.2312
Middle		3	1	23.78	0.2388	23.88	0.2443
Highest		3	1	23.59	0.2286	23.69	0.2339
Lowest	16QAM	1	0	22.51	0.1782	22.61	0.1824
Middle		1	0	22.97	0.1982	23.07	0.2028
Highest		1	0	22.74	0.1879	22.84	0.1923
Lowest	64QAM	3	1	21.59	0.1442	21.69	0.1476
Middle		3	1	22.00	0.1585	22.10	0.1622
Highest		3	1	21.74	0.1493	21.84	0.1528
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	23.46	0.2218	23.56	0.2270
Middle		1	8	23.71	0.2350	23.81	0.2404
Highest		1	8	23.55	0.2265	23.65	0.2317
Lowest	16QAM	1	0	22.54	0.1795	22.64	0.1837
Middle		1	0	22.99	0.1991	23.09	0.2037
Highest		1	0	22.84	0.1923	22.94	0.1968
Lowest	64QAM	1	8	21.55	0.1429	21.65	0.1462
Middle		1	8	21.96	0.1570	22.06	0.1607
Highest		1	8	21.77	0.1503	21.87	0.1538
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	23.49	0.2234	23.59	0.2286
Middle		1	12	23.71	0.2350	23.81	0.2404
Highest		1	12	23.55	0.2265	23.65	0.2317
Lowest	16QAM	1	12	22.58	0.1811	22.68	0.1854
Middle		1	12	22.99	0.1991	23.09	0.2037
Highest		1	12	22.85	0.1928	22.95	0.1972
Lowest	64QAM	1	0	21.55	0.1429	21.65	0.1462
Middle		1	0	21.97	0.1574	22.07	0.1611
Highest		1	0	21.80	0.1514	21.90	0.1549
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.59	0.2286	23.69	0.2339
Middle		1	0	23.75	0.2371	23.85	0.2427
Highest		1	0	23.55	0.2265	23.65	0.2317
Lowest	16QAM	1	25	22.63	0.1832	22.73	0.1875
Middle		1	25	22.99	0.1991	23.09	0.2037
Highest		1	25	22.92	0.1959	23.02	0.2004
Lowest	64QAM	1	25	21.60	0.1445	21.70	0.1479
Middle		1	25	22.00	0.1585	22.10	0.1622
Highest		1	25	21.85	0.1531	21.95	0.1567
Limit	EIRP < 2W		Result		PASS		

LTE Band 2 / 15MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.45	0.2213	23.55	0.2265
Middle		1	0	23.74	0.2366	23.84	0.2421
Highest		1	0	23.48	0.2228	23.58	0.2280
Lowest	16QAM	1	0	22.58	0.1811	22.68	0.1854
Middle		1	0	23.00	0.1995	23.10	0.2042
Highest		1	0	22.75	0.1884	22.85	0.1928
Lowest	64QAM	1	0	21.56	0.1432	21.66	0.1466
Middle		1	0	22.00	0.1585	22.10	0.1622
Highest		1	0	21.73	0.1489	21.83	0.1524
Limit	EIRP < 2W		Result		PASS		

LTE Band 2 / 20MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	99	23.56	0.2270	23.66	0.2323
Middle		1	99	23.76	0.2377	23.86	0.2432
Highest		1	99	23.58	0.2280	23.68	0.2333
Lowest	16QAM	1	0	22.60	0.1820	22.70	0.1862
Middle		1	0	23.00	0.1995	23.10	0.2042
Highest		1	0	22.79	0.1901	22.89	0.1945
Lowest	64QAM	1	49	21.73	0.1489	21.83	0.1524
Middle		1	49	22.01	0.1589	22.11	0.1626
Highest		1	49	21.83	0.1524	21.93	0.1560
Limit	EIRP < 2W		Result		PASS		



LTE Band 4 / 1.4MHz (Average) (GT - LC = -0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	23.49	0.2234	23.29	0.2133
Middle		3	1	23.59	0.2286	23.39	0.2183
Highest		3	1	23.66	0.2323	23.46	0.2218
Lowest	16QAM	1	3	22.70	0.1862	22.50	0.1778
Middle		1	3	22.80	0.1905	22.60	0.1820
Highest		1	3	22.92	0.1959	22.72	0.1871
Lowest	64QAM	1	3	21.64	0.1459	21.44	0.1393
Middle		1	3	21.76	0.1500	21.56	0.1432
Highest		1	3	21.91	0.1552	21.71	0.1483
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = -0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.43	0.2203	23.23	0.2104
Middle		1	0	23.53	0.2254	23.33	0.2153
Highest		1	0	23.63	0.2307	23.43	0.2203
Lowest	16QAM	1	0	22.62	0.1828	22.42	0.1746
Middle		1	0	22.74	0.1879	22.54	0.1795
Highest		1	0	22.93	0.1963	22.73	0.1875
Lowest	64QAM	1	8	21.68	0.1472	21.48	0.1406
Middle		1	8	21.77	0.1503	21.57	0.1435
Highest		1	8	21.92	0.1556	21.72	0.1486
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = -0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	23.42	0.2198	23.22	0.2099
Middle		1	12	23.53	0.2254	23.33	0.2153
Highest		1	12	23.57	0.2275	23.37	0.2173
Lowest	16QAM	1	0	22.68	0.1854	22.48	0.1770
Middle		1	0	22.79	0.1901	22.59	0.1816
Highest		1	0	23.00	0.1995	22.80	0.1905
Lowest	64QAM	1	0	21.63	0.1455	21.43	0.1390
Middle		1	0	21.78	0.1507	21.58	0.1439
Highest		1	0	21.94	0.1563	21.74	0.1493
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = -0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.48	0.2228	23.28	0.2128
Middle		1	0	23.54	0.2259	23.34	0.2158
Highest		1	0	23.58	0.2280	23.38	0.2178
Lowest	16QAM	1	0	22.74	0.1879	22.54	0.1795
Middle		1	0	22.82	0.1914	22.62	0.1828
Highest		1	0	22.95	0.1972	22.75	0.1884
Lowest	64QAM	1	25	21.76	0.1500	21.56	0.1432
Middle		1	25	21.76	0.1500	21.56	0.1432
Highest		1	25	21.99	0.1581	21.79	0.1510
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = -0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.58	0.2280	23.38	0.2178
Middle		1	0	23.57	0.2275	23.37	0.2173
Highest		1	0	23.57	0.2275	23.37	0.2173
Lowest	16QAM	1	0	22.81	0.1910	22.61	0.1824
Middle		1	0	22.79	0.1901	22.59	0.1816
Highest		1	0	23.00	0.1995	22.80	0.1905
Lowest	64QAM	1	0	21.79	0.1510	21.59	0.1442
Middle		1	0	21.78	0.1507	21.58	0.1439
Highest		1	0	21.99	0.1581	21.79	0.1510
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = -0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	99	23.55	0.2265	23.35	0.2163
Middle		1	99	23.59	0.2286	23.39	0.2183
Highest		1	99	23.59	0.2286	23.39	0.2183
Lowest	16QAM	1	49	22.76	0.1888	22.56	0.1803
Middle		1	49	22.83	0.1919	22.63	0.1832
Highest		1	49	22.99	0.1991	22.79	0.1901
Lowest	64QAM	1	49	21.75	0.1496	21.55	0.1429
Middle		1	49	21.80	0.1514	21.60	0.1445
Highest		1	49	21.94	0.1563	21.74	0.1493
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	0	24.06	0.2547	17.61	0.0577
Middle		3	0	24.15	0.2600	17.70	0.0589
Highest		3	0	24.22	0.2642	17.77	0.0598
Lowest	16QAM	1	3	23.42	0.2198	16.97	0.0498
Middle		1	3	23.53	0.2254	17.08	0.0511
Highest		1	3	23.56	0.2270	17.11	0.0514
Lowest	64QAM	1	3	22.35	0.1718	15.90	0.0389
Middle		1	3	22.44	0.1754	15.99	0.0397
Highest		1	3	22.40	0.1738	15.95	0.0394
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.10	0.2570	17.65	0.0582
Middle		1	0	24.19	0.2624	17.74	0.0594
Highest		1	0	24.16	0.2606	17.71	0.0590
Lowest	16QAM	1	8	23.45	0.2213	17.00	0.0501
Middle		1	8	23.50	0.2239	17.05	0.0507
Highest		1	8	23.48	0.2228	17.03	0.0505
Lowest	64QAM	1	8	22.36	0.1722	15.91	0.0390
Middle		1	8	22.48	0.1770	16.03	0.0401
Highest		1	8	22.42	0.1746	15.97	0.0395
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.08	0.2559	17.63	0.0579
Middle		1	0	24.18	0.2618	17.73	0.0593
Highest		1	0	24.07	0.2553	17.62	0.0578
Lowest	16QAM	1	0	23.43	0.2203	16.98	0.0499
Middle		1	0	23.50	0.2239	17.05	0.0507
Highest		1	0	23.42	0.2198	16.97	0.0498
Lowest	64QAM	1	0	22.37	0.1726	15.92	0.0391
Middle		1	0	22.46	0.1762	16.01	0.0399
Highest		1	0	22.34	0.1714	15.89	0.0388
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 10MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	24.23	0.2649	17.78	0.0600
Middle		1	49	24.22	0.2642	17.77	0.0598
Highest		1	49	24.16	0.2606	17.71	0.0590
Lowest	16QAM	1	49	23.49	0.2234	17.04	0.0506
Middle		1	49	23.50	0.2239	17.05	0.0507
Highest		1	49	23.49	0.2234	17.04	0.0506
Lowest	64QAM	1	25	22.44	0.1754	15.99	0.0397
Middle		1	25	22.47	0.1766	16.02	0.0400
Highest		1	25	22.38	0.1730	15.93	0.0392
Limit	ERP < 7W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -4.1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	24.75	0.2985	18.50	0.0708
Middle		3	1	24.62	0.2897	18.37	0.0687
Highest		3	1	24.61	0.2891	18.36	0.0685
Lowest	16QAM	3	1	23.77	0.2382	17.52	0.0565
Middle		3	1	23.64	0.2312	17.39	0.0548
Highest		3	1	23.63	0.2307	17.38	0.0547
Lowest	64QAM	3	1	22.89	0.1945	16.64	0.0461
Middle		3	1	22.76	0.1888	16.51	0.0448
Highest		3	1	22.75	0.1884	16.50	0.0447
Limit	ERP < 3W		Result		PASS		

LTE Band 12 / 3MHz (Average) (GT - LC = -4.1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	14	24.79	0.3013	18.54	0.0714
Middle		1	14	24.69	0.2944	18.44	0.0698
Highest		1	14	24.40	0.2754	18.15	0.0653
Lowest	16QAM	1	0	23.79	0.2393	17.54	0.0568
Middle		1	0	23.85	0.2427	17.60	0.0575
Highest		1	0	23.97	0.2495	17.72	0.0592
Lowest	64QAM	1	8	22.99	0.1991	16.74	0.0472
Middle		1	8	22.88	0.1941	16.63	0.0460
Highest		1	8	22.66	0.1845	16.41	0.0438
Limit	ERP < 3W		Result		PASS		

LTE Band 12 / 5MHz (Average) (GT - LC = -4.1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	24.84	0.3048	18.59	0.0723
Middle		1	24	24.77	0.2999	18.52	0.0711
Highest		1	24	24.50	0.2818	18.25	0.0668
Lowest	16QAM	1	0	23.83	0.2415	17.58	0.0573
Middle		1	0	23.88	0.2443	17.63	0.0579
Highest		1	0	23.98	0.2500	17.73	0.0593
Lowest	64QAM	1	12	22.99	0.1991	16.74	0.0472
Middle		1	12	22.93	0.1963	16.68	0.0466
Highest		1	12	22.76	0.1888	16.51	0.0448
Limit	ERP < 3W		Result		PASS		



LTE Band 12 / 10MHz (Average) (GT - LC = -4.1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	24.83	0.3041	18.58	0.0721
Middle		1	25	24.88	0.3076	18.63	0.0729
Highest		1	25	24.77	0.2999	18.52	0.0711
Lowest	16QAM	1	49	23.87	0.2438	17.62	0.0578
Middle		1	49	23.95	0.2483	17.70	0.0589
Highest		1	49	23.99	0.2506	17.74	0.0594
Lowest	64QAM	1	25	22.99	0.1991	16.74	0.0472
Middle		1	25	23.00	0.1995	16.75	0.0473
Highest		1	25	23.00	0.1995	16.75	0.0473
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 5MHz (Average) (GT - LC = -3.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	24.86	0.3062	18.91	0.0778
Middle		1	24	24.64	0.2911	18.69	0.0740
Highest		1	24	24.59	0.2877	18.64	0.0731
Lowest	16QAM	1	12	23.93	0.2472	17.98	0.0628
Middle		1	12	23.99	0.2506	18.04	0.0637
Highest		1	12	23.75	0.2371	17.80	0.0603
Lowest	64QAM	1	24	22.90	0.1950	16.95	0.0495
Middle		1	24	22.73	0.1875	16.78	0.0476
Highest		1	24	22.64	0.1837	16.69	0.0467
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average) (GT - LC = -3.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	24.83	0.3041	18.88	0.0773
Middle		1	25	24.87	0.3069	18.92	0.0780
Highest		1	25	24.81	0.3027	18.86	0.0769
Lowest	16QAM	1	49	24.00	0.2512	18.05	0.0638
Middle		1	49	23.97	0.2495	18.02	0.0634
Highest		1	49	23.96	0.2489	18.01	0.0632
Lowest	64QAM	1	0	22.93	0.1963	16.98	0.0499
Middle		1	0	22.82	0.1914	16.87	0.0486
Highest		1	0	22.81	0.1910	16.86	0.0485
Limit	ERP < 3W			Result		PASS	



**Radiated Spurious Emission**

<Main Antenna>

**LTE Band 2**

LTE Band 2 / 20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-56.02	-13	-43.02	-77.15	-62.59	1.67	8.24	H
	5556	-51.79	-13	-38.79	-77.27	-58.86	2.66	9.72	H
	7404	-50.62	-13	-37.62	-78.14	-59.77	2.46	11.61	H
									H
									H
	3702	-50.92	-13	-37.92	-72.06	-57.49	1.67	8.24	V
	5556	-51.51	-13	-38.51	-76.91	-58.58	2.66	9.72	V
	7404	-48.96	-13	-35.96	-76.57	-58.11	2.46	11.61	V
									V
									V
Middle	3744	-55.27	-13	-42.27	-76.41	-61.88	1.68	8.29	H
	5616	-49.42	-13	-36.42	-74.9	-56.47	2.69	9.75	H
	7482	-50.15	-13	-37.15	-77.62	-59.48	2.44	11.76	H
									H
									H
	3744	-52.56	-13	-39.56	-73.67	-59.17	1.68	8.29	V
	5616	-45.36	-13	-32.36	-70.88	-52.41	2.69	9.75	V
	7482	-49.68	-13	-36.68	-77.25	-59.01	2.44	11.76	V
									V
									V



LTE Band 2 / 20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3780	-56.24	-13	-43.24	-77.18	-62.88	1.69	8.34	H
	5676	-51.64	-13	-38.64	-77.36	-58.68	2.73	9.77	H
	7566	-49.14	-13	-36.14	-76.72	-58.57	2.41	11.84	H
									H
									H
									H
									H
	3780	-51.84	-13	-38.84	-72.95	-58.48	1.69	8.34	V
	5676	-50.92	-13	-37.92	-76.47	-57.96	2.73	9.77	V
	7566	-47.59	-13	-34.59	-75.44	-57.02	2.41	11.84	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



### LTE Band 4

LTE Band 4 / 20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-47.02	-13	-34.02	-67.9	-53.09	1.58	7.65	H
	5130	-53.47	-13	-40.47	-77.78	-60.76	2.41	9.70	H
	6840	-51.17	-13	-38.17	-78.27	-59.14	2.64	10.61	H
									H
									H
	3420	-49.86	-13	-36.86	-70.81	-55.93	1.58	7.65	V
	5130	-53.93	-13	-40.93	-78.11	-61.22	2.41	9.70	V
	6840	-51.14	-13	-38.14	-78.14	-59.11	2.64	10.61	V
									V
									V
Middle	3450	-43.78	-13	-30.78	-64.73	-49.97	1.59	7.78	H
	5166	-53.38	-13	-40.38	-77.84	-60.65	2.43	9.70	H
	6888	-51.04	-13	-38.04	-78.2	-59.08	2.63	10.67	H
									H
									H
	3450	-48.09	-13	-35.09	-69.05	-54.28	1.59	7.78	V
	5166	-53.46	-13	-40.46	-77.67	-60.73	2.43	9.70	V
	6888	-50.98	-13	-37.98	-78.06	-59.02	2.63	10.67	V
									V
									V



LTE Band 4 / 20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3474	-47.42	-13	-34.42	-68.58	-53.71	1.60	7.89	H
	5208	-52.49	-13	-39.49	-76.94	-59.73	2.46	9.70	H
	6942	-50.88	-13	-37.88	-78	-59	2.61	10.73	H
									H
									H
									H
									H
	3474	-50.94	-13	-37.94	-72.03	-57.23	1.60	7.89	V
	5208	-53.24	-13	-40.24	-77.61	-60.48	2.46	9.70	V
	6942	-50.76	-13	-37.76	-77.99	-58.88	2.61	10.73	V
									V
									V
									V
									V

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



### LTE Band 5

LTE Band 5 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-56.32	-13	-43.32	-68.39	-58.08	0.98	4.89	H
	2472	-39.03	-13	-26.03	-56.26	-40.91	1.28	5.32	H
	3296	-57.91	-13	-44.91	-77.24	-61.32	1.54	7.10	H
									H
									H
	1648	-59.66	-13	-46.66	-72.2	-61.42	0.98	4.89	V
	2472	-41.61	-13	-28.61	-59.28	-43.49	1.28	5.32	V
	3296	-57.39	-13	-44.39	-77.25	-60.8	1.54	7.10	V
									V
									V
Middle	1664	-53.31	-13	-40.31	-67.93	-55.02	0.98	4.84	H
	2496	-41.14	-13	-28.14	-59.02	-43.09	1.29	5.39	H
	3326	-57.41	-13	-44.41	-77.23	-60.94	1.55	7.23	H
									H
									H
	1664	-59.32	-13	-46.32	-72.39	-61.03	0.98	4.84	V
	2496	-41.79	-13	-28.79	-59.88	-43.74	1.29	5.39	V
	3326	-57.29	-13	-44.29	-77.4	-60.82	1.55	7.23	V
									V
									V



LTE Band 5 / 10MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1680	-58.46	-13	-45.46	-70.93	-60.11	0.99	4.80	H
	2520	-43.62	-13	-30.62	-61.06	-45.59	1.30	5.42	H
	3352	-57.94	-13	-44.94	-77.69	-61.58	1.56	7.35	H
									H
									H
									H
									H
	1680	-60.34	-13	-47.34	-73.29	-61.99	0.99	4.80	V
	2520	-44.41	-13	-31.41	-62.38	-46.38	1.30	5.42	V
	3352	-57.83	-13	-44.83	-77.82	-61.47	1.56	7.35	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



## LTE Band 12

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-58.16	-13	-45.16	-68.85	-59.82	0.87	4.68	H
	2096	-49.19	-13	-36.19	-65.02	-50.06	1.16	4.19	H
	2792	-59.24	-13	-46.24	-77.23	-61.34	1.38	5.63	H
									H
									H
	1400	-55.68	-13	-42.68	-67.02	-57.34	0.87	4.68	V
	2096	-49.54	-13	-36.54	-65.74	-50.41	1.16	4.19	V
	2792	-58.49	-13	-45.49	-77.31	-60.59	1.38	5.63	V
									V
									V
Middle	1408	-56.71	-13	-43.71	-67.41	-58.42	0.87	4.73	H
	2112	-47.35	-13	-34.35	-63.16	-48.27	1.17	4.24	H
	2808	-58.91	-13	-45.91	-76.85	-61.02	1.39	5.65	H
									H
									H
	1408	-55.07	-13	-42.07	-66.28	-56.78	0.87	4.73	V
	2112	-43.94	-13	-30.94	-60.09	-44.86	1.17	4.24	V
	2808	-58.22	-13	-45.22	-77.05	-60.33	1.39	5.65	V
									V
									V



LTE Band 12 / 10MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1416	-57.77	-13	-44.77	-68.56	-59.52	0.87	4.78	H
	2120	-45.88	-13	-32.88	-61.86	-46.82	1.17	4.26	H
	2824	-58.84	-13	-45.84	-76.88	-60.96	1.39	5.66	H
									H
									H
									H
									H
	1416	-53.78	-13	-40.78	-65.10	-55.53	0.87	4.78	V
	2120	-43.93	-13	-30.93	-60.19	-44.87	1.17	4.26	V
	2824	-57.85	-13	-44.85	-76.52	-59.97	1.39	5.66	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



**LTE Band 17**

LTE Band 17 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-56.45	-13	-43.45	-67.18	-58.16	0.87	4.73	H
	2112	-48.23	-13	-35.23	-64.16	-49.15	1.17	4.24	H
	2816	-59.12	-13	-46.12	-77.23	-61.23	1.39	5.65	H
									H
									H
	1400	-54.87	-13	-41.87	-66.15	-56.58	0.87	4.73	V
	2112	-48.16	-13	-35.16	-64.39	-49.08	1.17	4.24	V
	2816	-58.24	-13	-45.24	-77.24	-60.35	1.39	5.65	V
									V
									V
Middle	1408	-57.06	-13	-44.06	-67.83	-58.77	0.87	4.73	H
	2120	-48.51	-13	-35.51	-64.42	-49.45	1.17	4.26	H
	2824	-58.91	-13	-45.91	-76.92	-61.03	1.39	5.66	H
									H
									H
	1408	-54.16	-13	-41.16	-65.43	-55.87	0.87	4.73	V
	2120	-47.95	-13	-34.95	-64.21	-48.89	1.17	4.26	V
	2824	-58.21	-13	-45.21	-77.01	-60.33	1.39	5.66	V
									V
									V



LTE Band 17 / 10MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1416	-57.87	-13	-44.87	-68.57	-59.62	0.87	4.78	H
	2120	-48.79	-13	-35.79	-64.70	-49.73	1.17	4.26	H
	2824	-58.76	-13	-45.76	-76.80	-60.88	1.39	5.66	H
									H
									H
									H
									H
	1416	-55.07	-13	-42.07	-66.34	-56.82	0.87	4.78	V
	2120	-48.21	-13	-35.21	-64.47	-49.15	1.17	4.26	V
	2824	-58.06	-13	-45.06	-76.86	-60.18	1.39	5.66	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



<Aux. Antenna>

**LTE Band 5**

LTE Band 5 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-61.88	-13	-48.88	-74.32	-63.64	0.98	4.89	H
	2472	-57.83	-13	-44.83	-75.49	-59.71	1.28	5.32	H
	3296	-57.59	-13	-44.59	-77.27	-61	1.54	7.10	H
									H
									H
	1648	-61.92	-13	-48.92	-74.89	-63.68	0.98	4.89	V
	2472	-58.24	-13	-45.24	-76.33	-60.12	1.28	5.32	V
	3296	-57.42	-13	-44.42	-77.42	-60.83	1.54	7.10	V
									V
									V
Middle	1664	-60.11	-13	-47.11	-72.8	-61.82	0.98	4.84	H
	2496	-56.11	-13	-43.11	-73.79	-58.06	1.29	5.39	H
	3328	-57.35	-13	-44.35	-77.27	-60.89	1.55	7.24	H
									H
									H
	1664	-60.31	-13	-47.31	-73.41	-62.02	0.98	4.84	V
	2496	-58.66	-13	-45.66	-76.83	-60.61	1.29	5.39	V
	3328	-57.51	-13	-44.51	-77.66	-61.05	1.55	7.24	V
									V
									V



LTE Band 5 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1680	-61.74	-13	-48.74	-74.41	-63.39	0.99	4.80	H
	2520	-59.34	-13	-46.34	-77.03	-61.31	1.30	5.42	H
	3352	-57.57	-13	-44.57	-77.58	-61.21	1.56	7.35	H
									H
									H
									H
									H
	1680	-61.72	-13	-48.72	-74.92	-63.37	0.99	4.80	V
	2520	-58.69	-13	-45.69	-76.82	-60.66	1.30	5.42	V
	3352	-57.54	-13	-44.54	-77.81	-61.18	1.56	7.35	V
									V
									V
									V
									V

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



**LTE Band 12**

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-62.88	-13	-49.88	-73.72	-64.54	0.87	4.68	H
	2096	-60.56	-13	-47.56	-76.34	-61.43	1.16	4.19	H
	2792	-59.45	-13	-46.45	-77.42	-61.55	1.38	5.63	H
									H
									H
	1400	-62.52	-13	-49.52	-73.75	-64.18	0.87	4.68	V
	2096	-60.26	-13	-47.26	-76.44	-61.13	1.16	4.19	V
	2792	-58.31	-13	-45.31	-77.06	-60.41	1.38	5.63	V
									V
									V
Middle	1408	-63.54	-13	-50.54	-74.28	-65.25	0.87	4.73	H
	2112	-48.09	-13	-35.09	-63.91	-49.01	1.17	4.24	H
	2808	-59.08	-13	-46.08	-77.03	-61.19	1.39	5.65	H
									H
									H
	1408	-62.71	-13	-49.71	-73.92	-64.42	0.87	4.73	V
	2112	-50.13	-13	-37.13	-66.36	-51.05	1.17	4.24	V
	2808	-58.11	-13	-45.11	-76.95	-60.22	1.39	5.65	V
									V
									V



LTE Band 12 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1416	-63.27	-13	-50.27	-74.19	-65.02	0.87	4.78	H
	2120	-59.68	-13	-46.68	-75.61	-60.62	1.17	4.26	H
	2824	-58.76	-13	-45.76	-76.68	-60.88	1.39	5.66	H
									H
									H
									H
									H
	1416	-61.48	-13	-48.48	-72.67	-63.23	0.87	4.78	V
	2120	-59.74	-13	-46.74	-76.00	-60.68	1.17	4.26	V
	2824	-58.16	-13	-45.16	-76.89	-60.28	1.39	5.66	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



**LTE Band 17**

LTE Band 17 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1408	-63.58	-13	-50.58	-74.35	-65.29	0.87	4.73	H
	2112	-58.29	-13	-45.29	-74.18	-59.21	1.17	4.24	H
	2816	-59.17	-13	-46.17	-77.23	-61.28	1.39	5.65	H
									H
									H
	1408	-61.31	-13	-48.31	-72.54	-63.02	0.87	4.73	V
	2112	-60.46	-13	-47.46	-76.61	-61.38	1.17	4.24	V
	2816	-58.22	-13	-45.22	-77.01	-60.33	1.39	5.65	V
									V
									V
Middle	1408	-63.81	-13	-50.81	-74.52	-65.52	0.87	4.73	H
	2120	-52.91	-13	-39.91	-68.82	-53.85	1.17	4.26	H
	2824	-59.12	-13	-46.12	-77.06	-61.24	1.39	5.66	H
									H
									H
	1408	-62.06	-13	-49.06	-73.31	-63.77	0.87	4.73	V
	2120	-50.19	-13	-37.19	-66.45	-51.13	1.17	4.26	V
	2824	-58.29	-13	-45.29	-77.03	-60.41	1.39	5.66	V
									V
									V



LTE Band 17 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1416	-63.78	-13	-50.78	-74.65	-65.53	0.87	4.78	H
	2120	-59.38	-13	-46.38	-75.31	-60.32	1.17	4.26	H
	2824	-59.36	-13	-46.36	-77.23	-61.48	1.39	5.66	H
									H
									H
									H
									H
	1416	-61.88	-13	-48.88	-73.22	-63.63	0.87	4.78	V
	2120	-59.81	-13	-46.81	-76.07	-60.75	1.17	4.26	V
	2824	-57.99	-13	-44.99	-76.80	-60.11	1.39	5.66	V
									V
									V
									V
									V

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.