

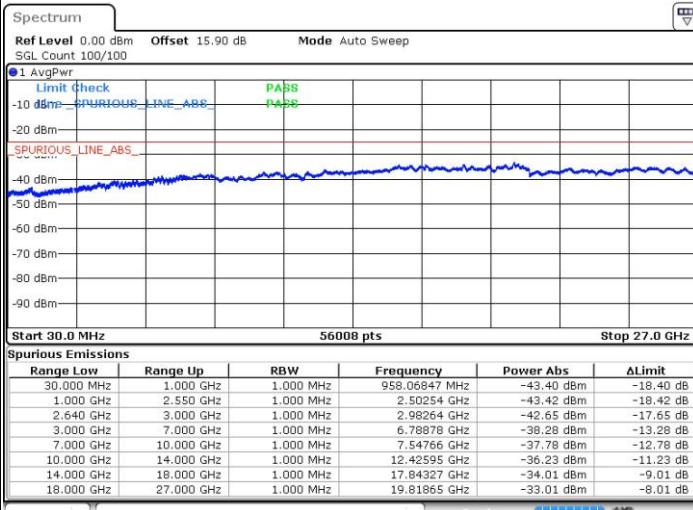
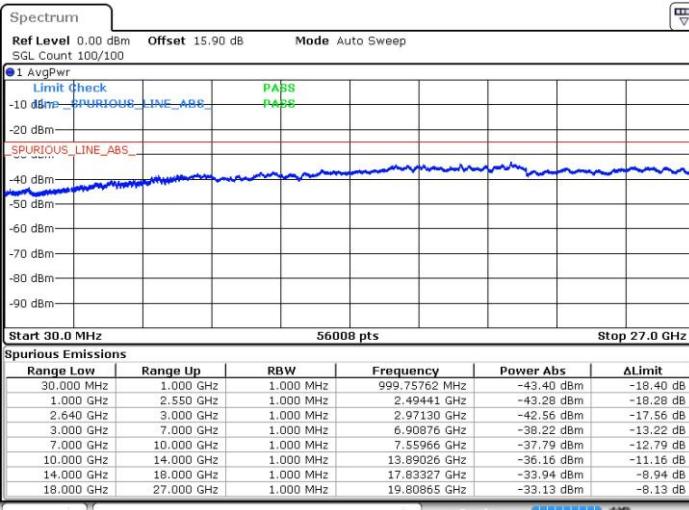


Conducted Spurious Emission

LTE Band 38 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

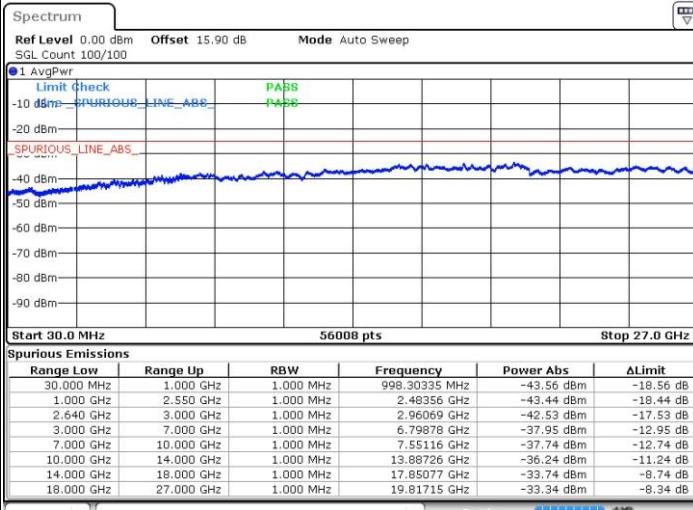
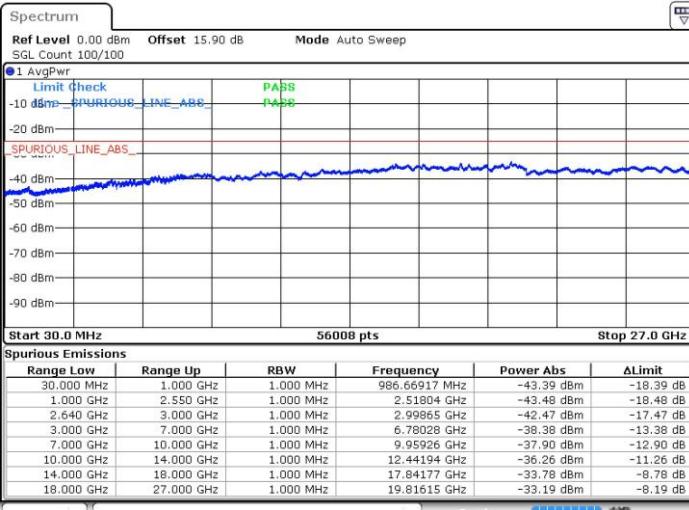


Date: 4.SEP.2018 15:58:41

Date: 4.SEP.2018 15:59:31

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 4.SEP.2018 16:00:22

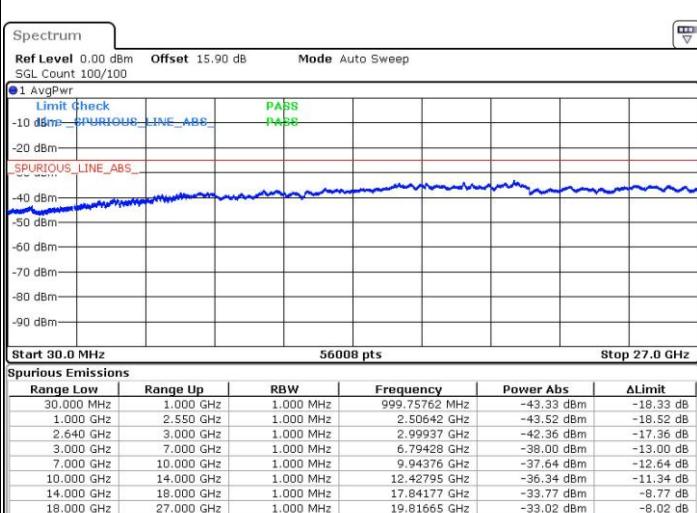
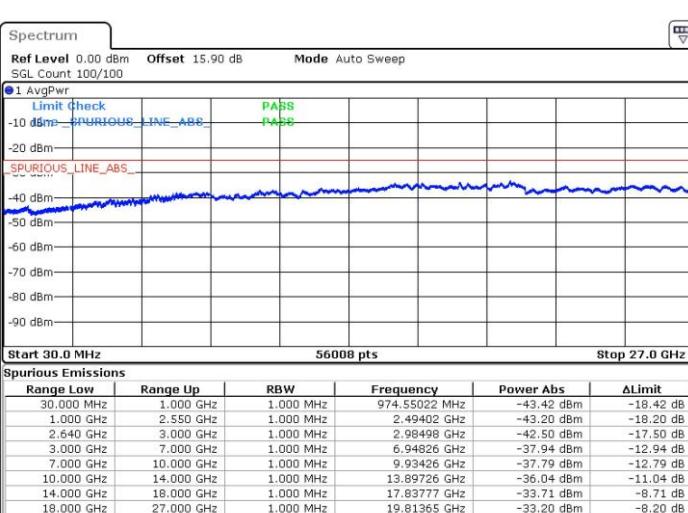
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LTE Band 38 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM

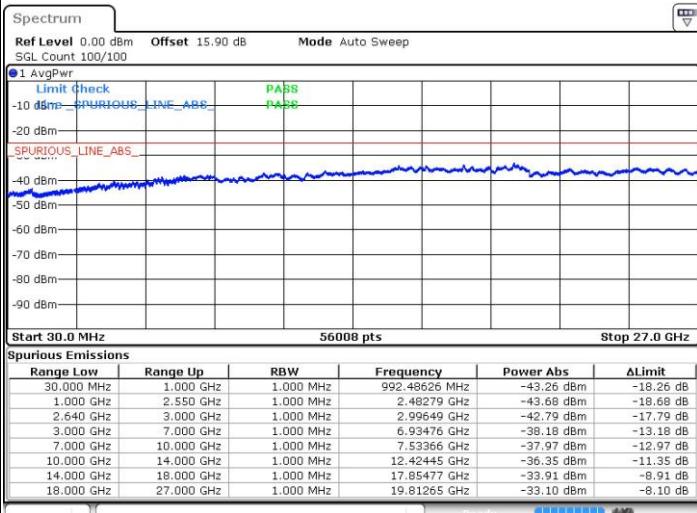
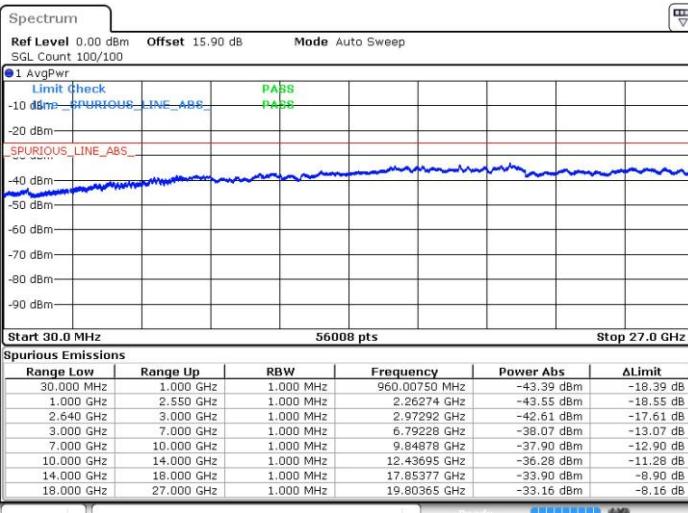


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LTE Band 38 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



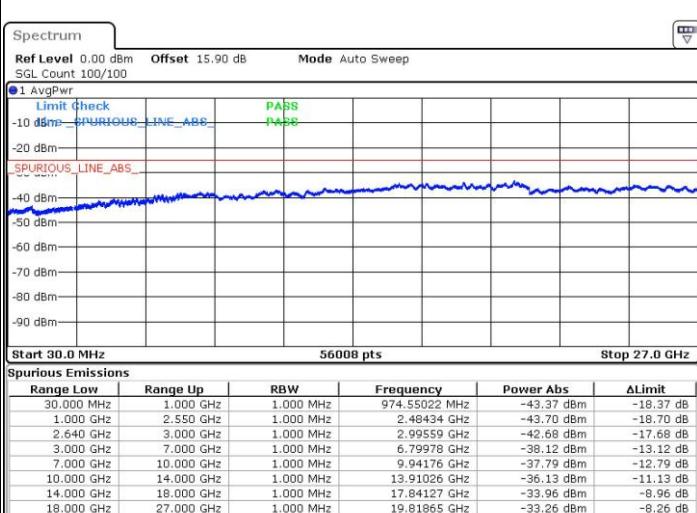
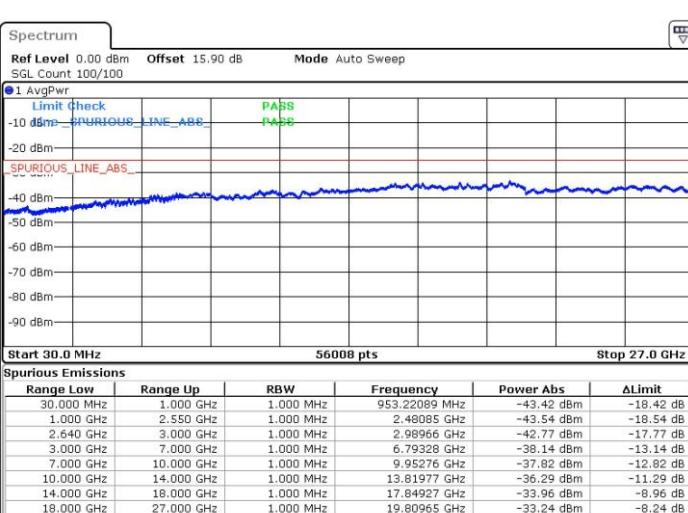
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LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

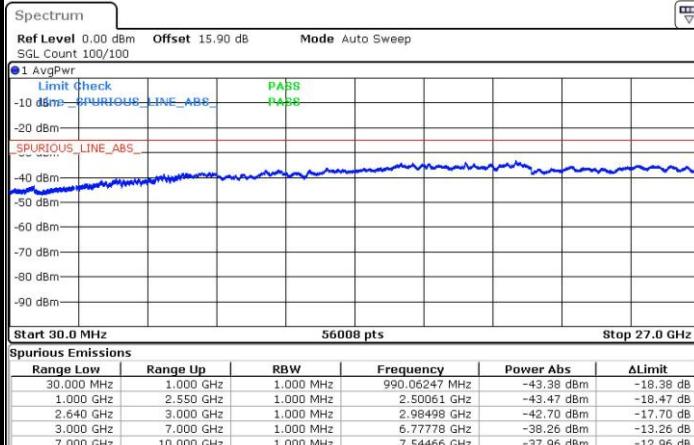


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Date: 4 SEP. 2018 16:06:18

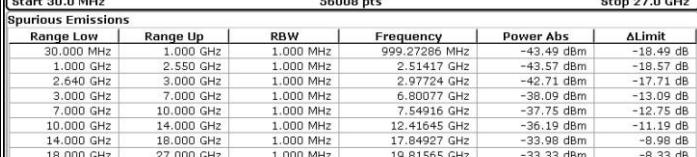
Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4 SEP. 2018 16:07:08

Date: 4 SEP. 2018 16:07:59

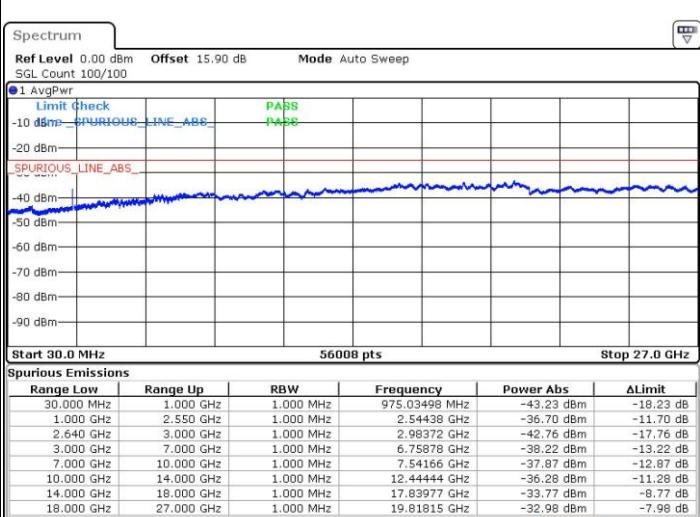
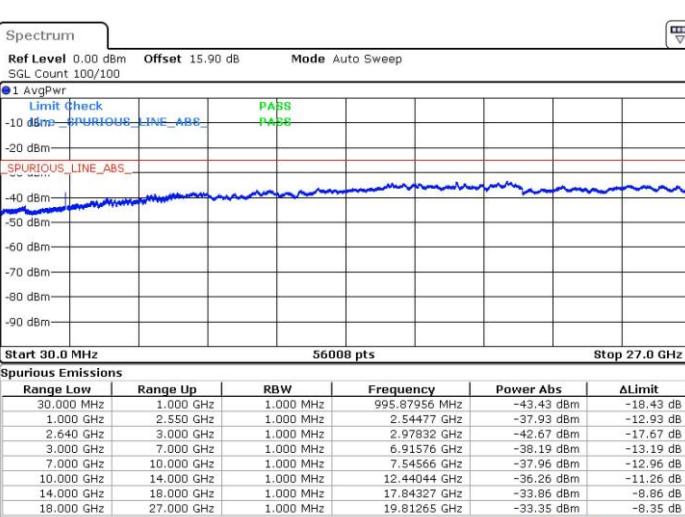




LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

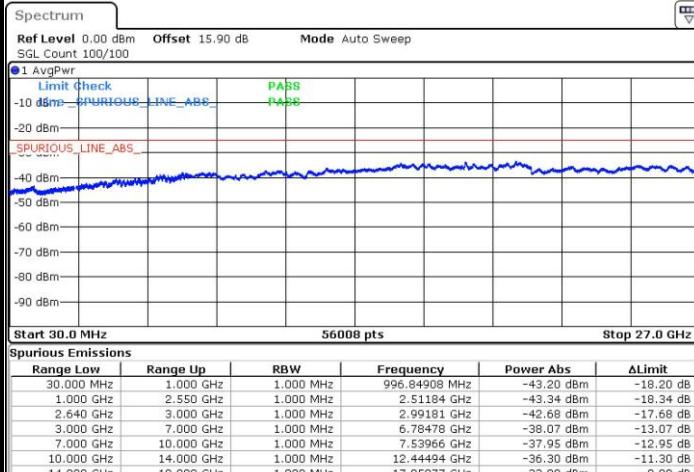


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Date: 4 SEP. 2018 16:09:41

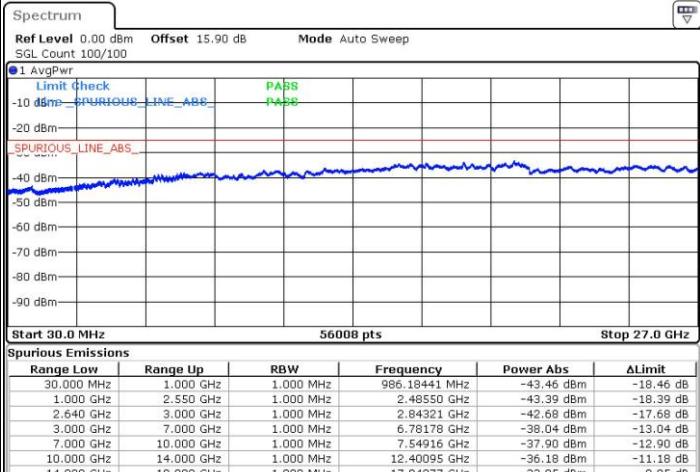
Middle Channel / QPSK

Middle Channel / 16QAM



Date: 4 SEP. 2018 16:10:31

Date: 4 SEP. 2018 16:11:22

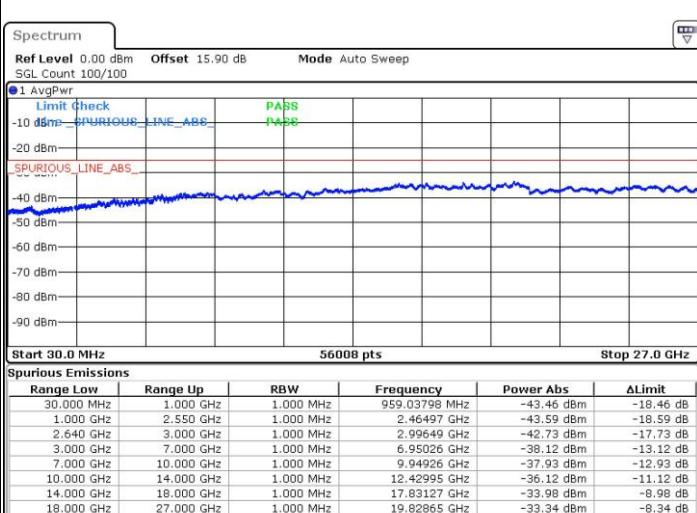
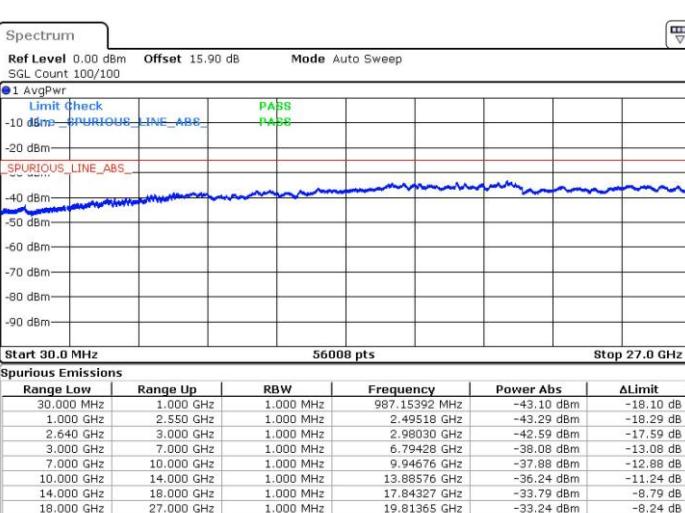




LTE Band 38 / 15MHz

Highest Channel / QPSK

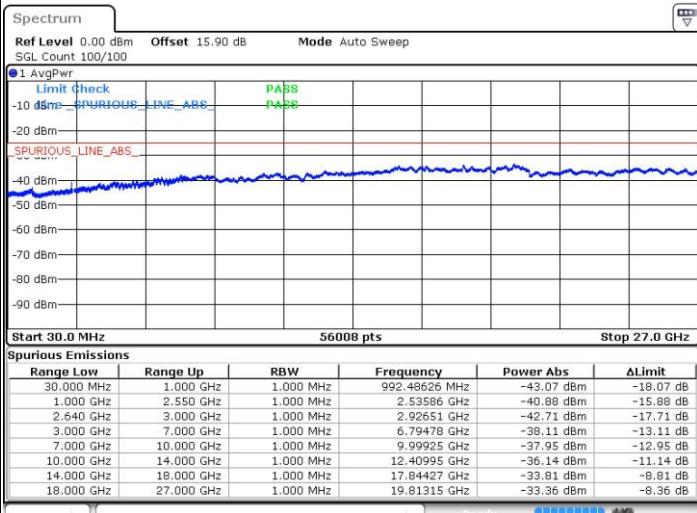
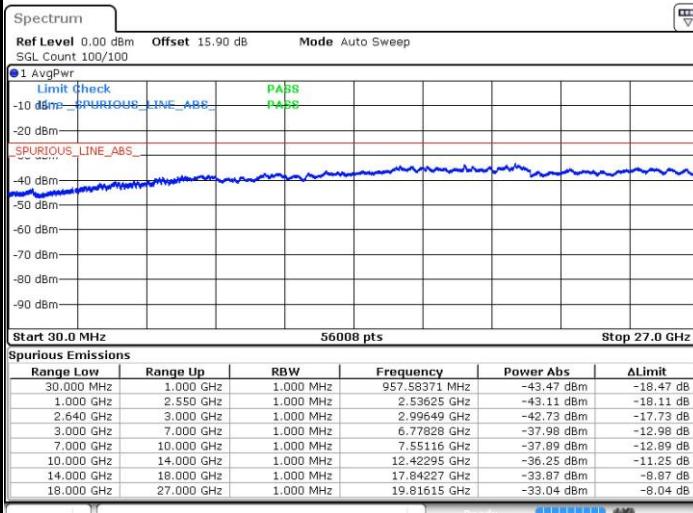
Highest Channel / 16QAM



LTE Band 38 / 20MHz

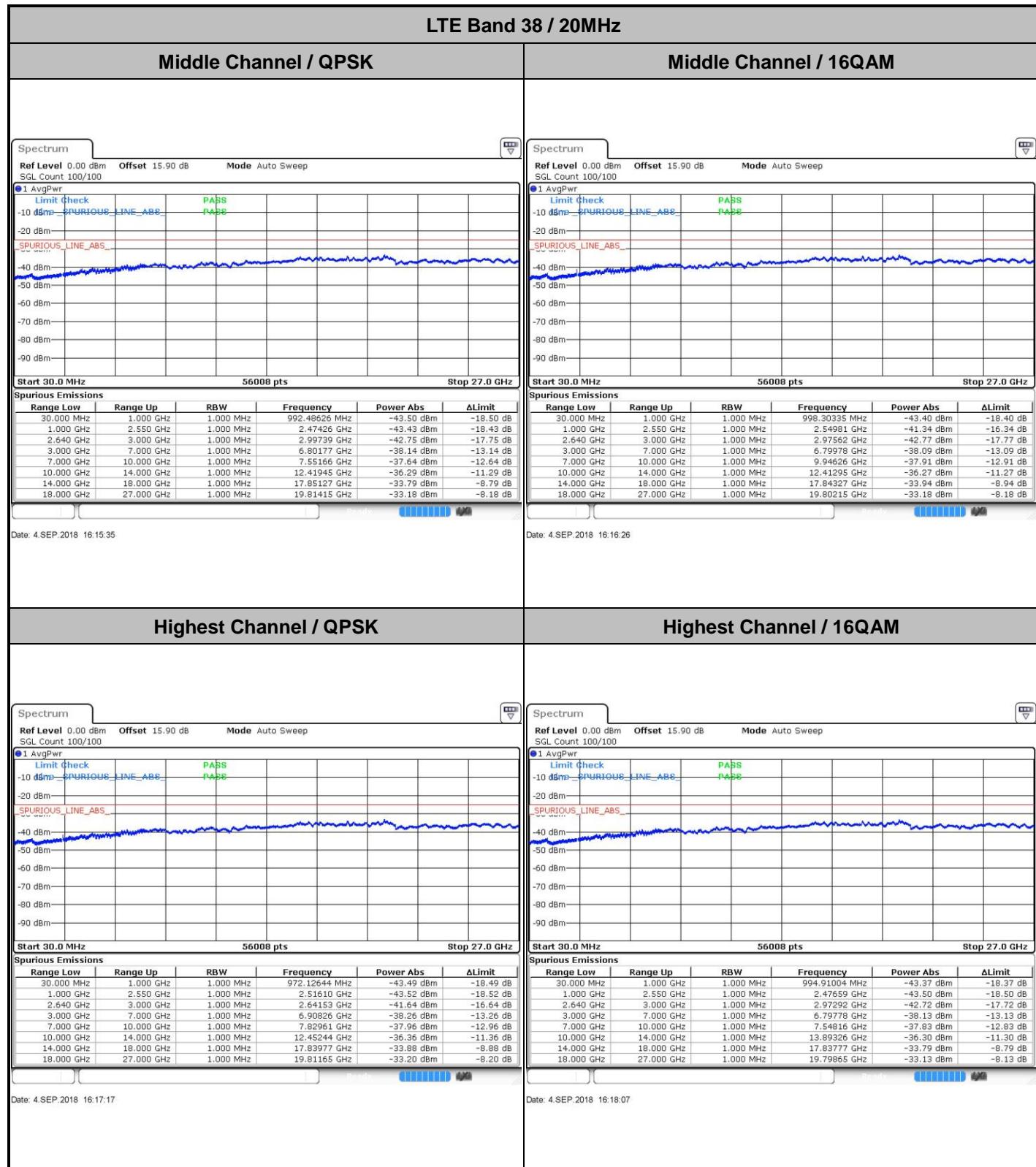
Lowest Channel / QPSK

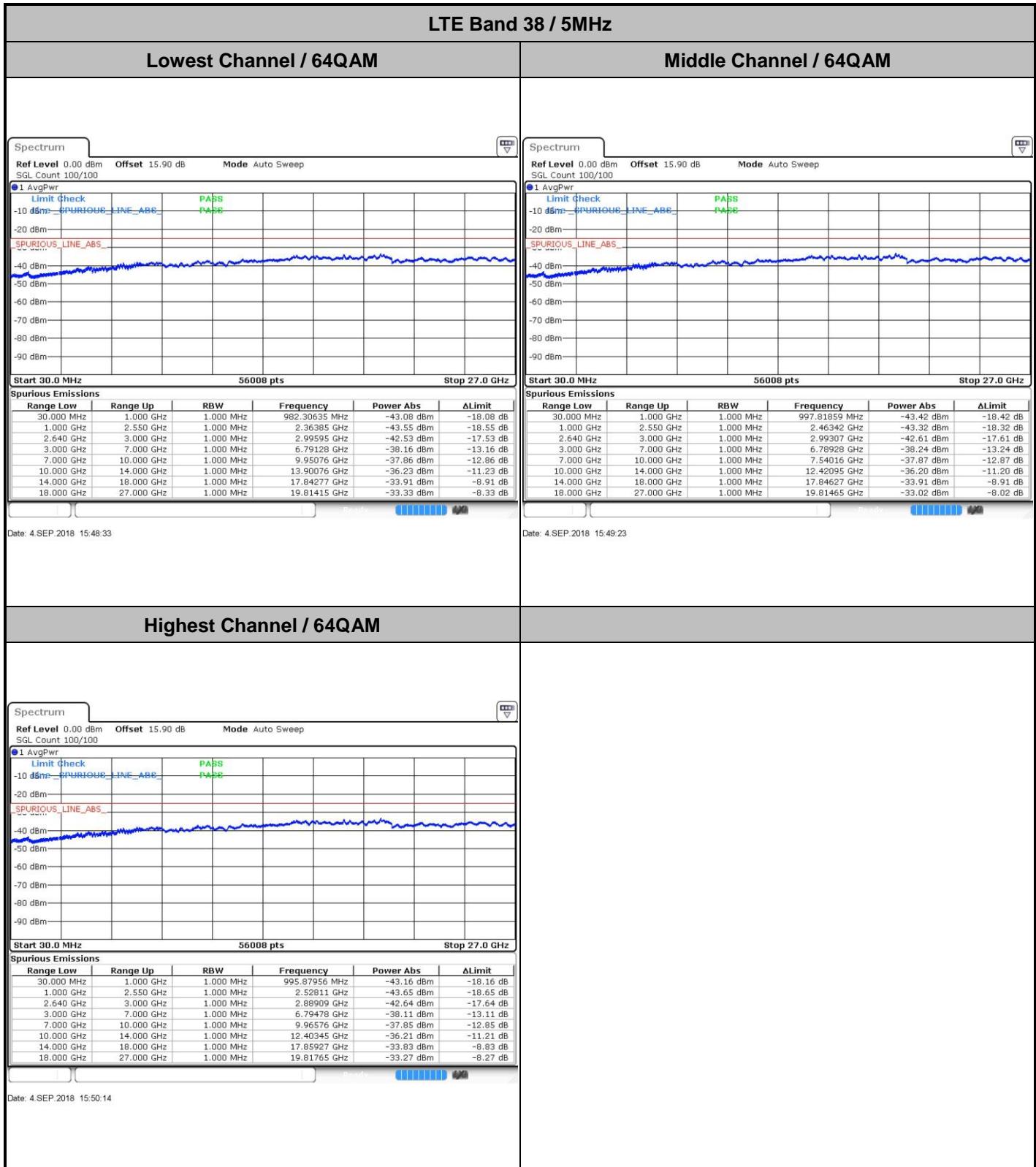
Lowest Channel / 16QAM

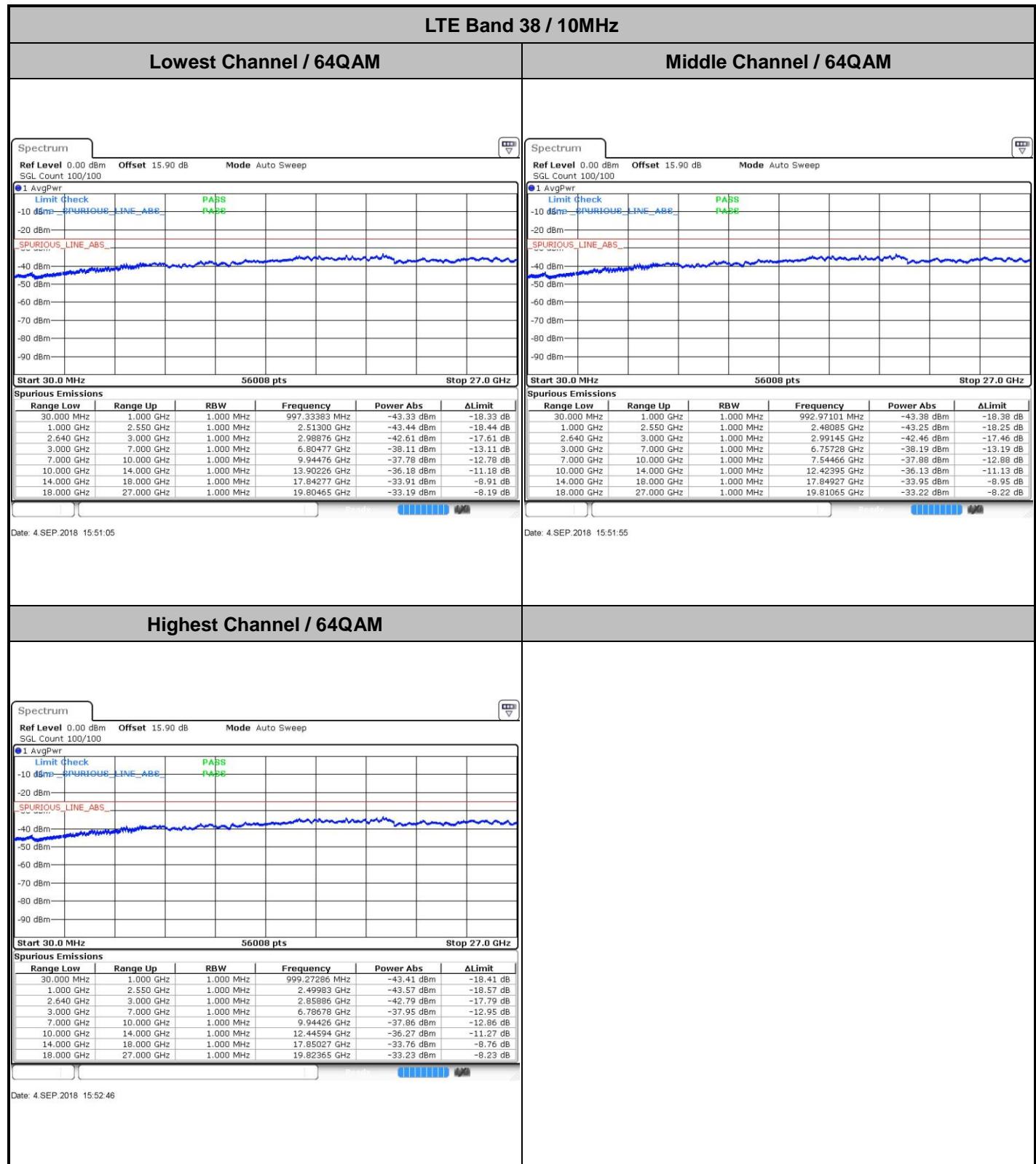


Date: 4.SEP.2018 16:13:54

Date: 4.SEP.2018 16:14:45





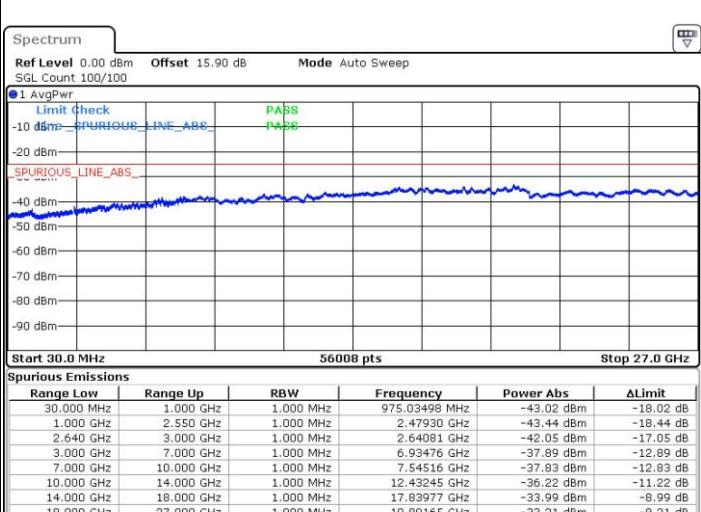
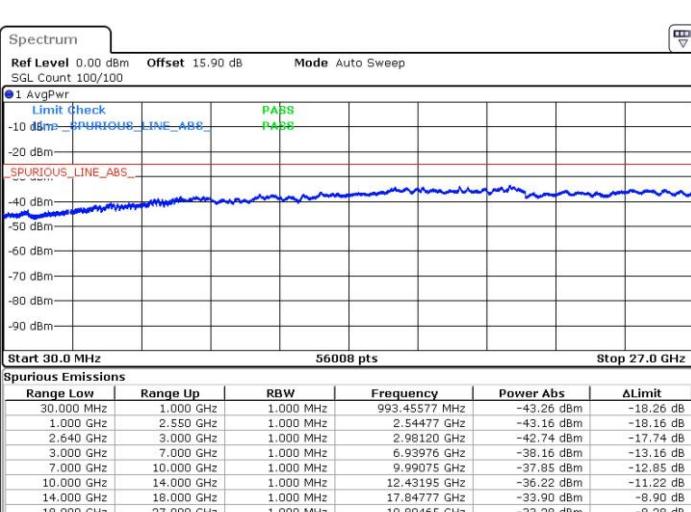




LTE Band 38 / 15MHz

Lowest Channel / 64QAM

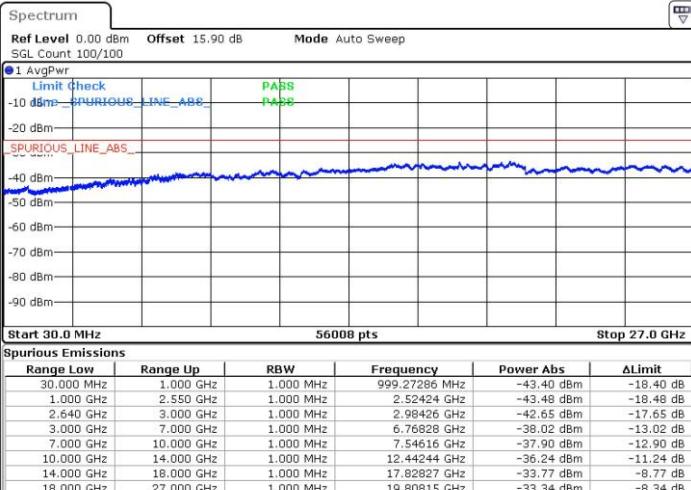
Middle Channel / 64QAM



Date: 4 SEP. 2018 15:53:37

Date: 4 SEP. 2018 15:54:27

Highest Channel / 64QAM



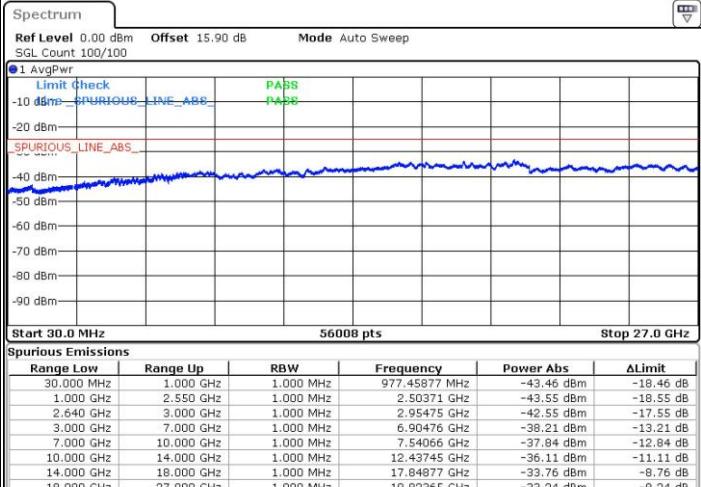
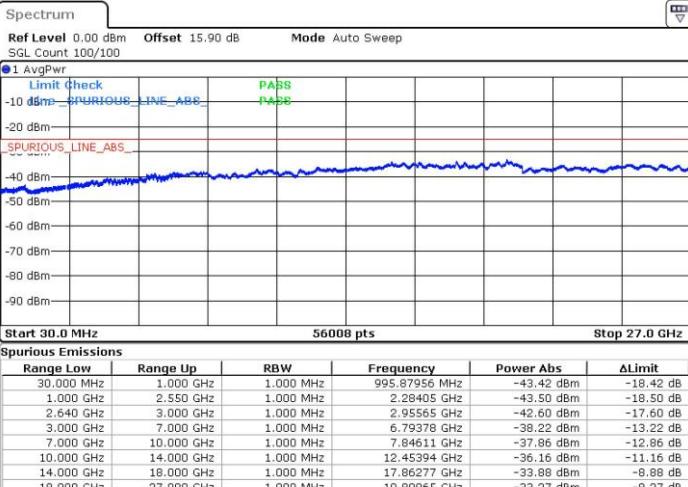
Date: 4 SEP. 2018 15:55:18



LTE Band 38 / 20MHz

Lowest Channel / 64QAM

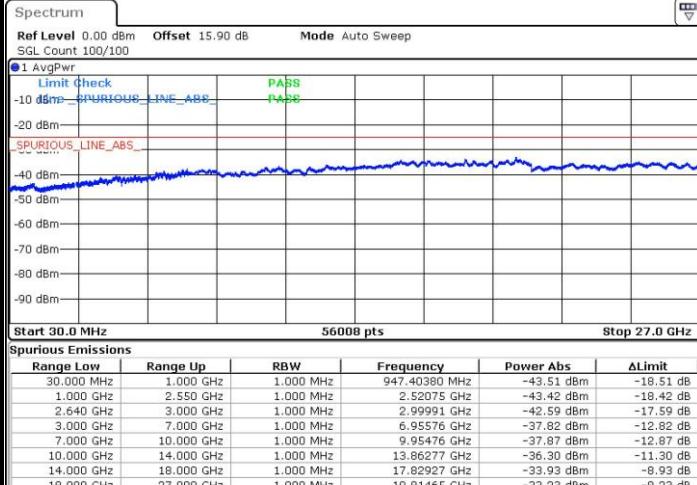
Middle Channel / 64QAM



Date: 4 SEP 2018 15:56:09

Date: 4 SEP 2018 15:56:59

Highest Channel / 64QAM



Date: 4 SEP 2018 15:57:50



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0060	PASS
40	Normal Voltage	0.0062	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0064	
-10	Normal Voltage	0.0066	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0061	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

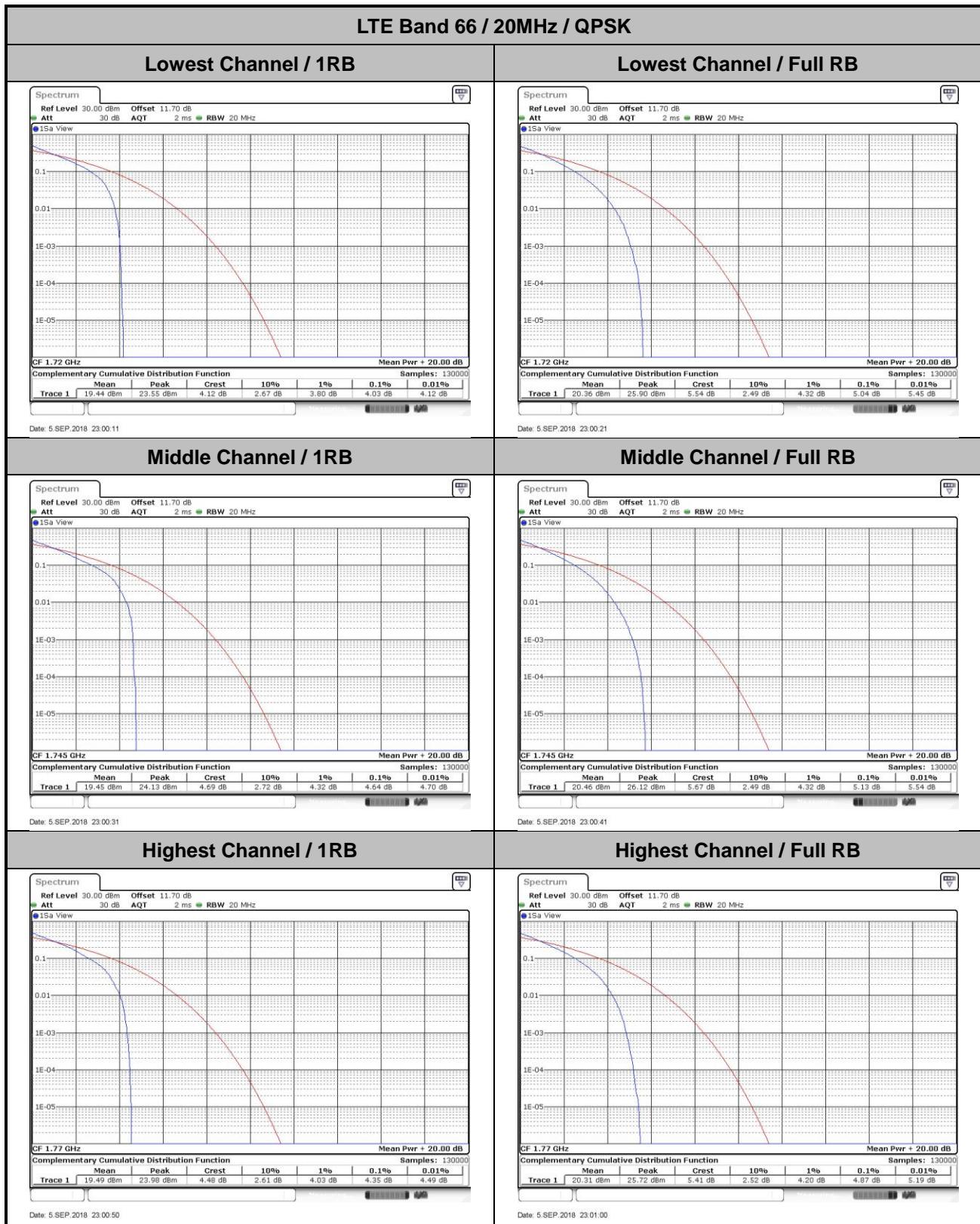
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

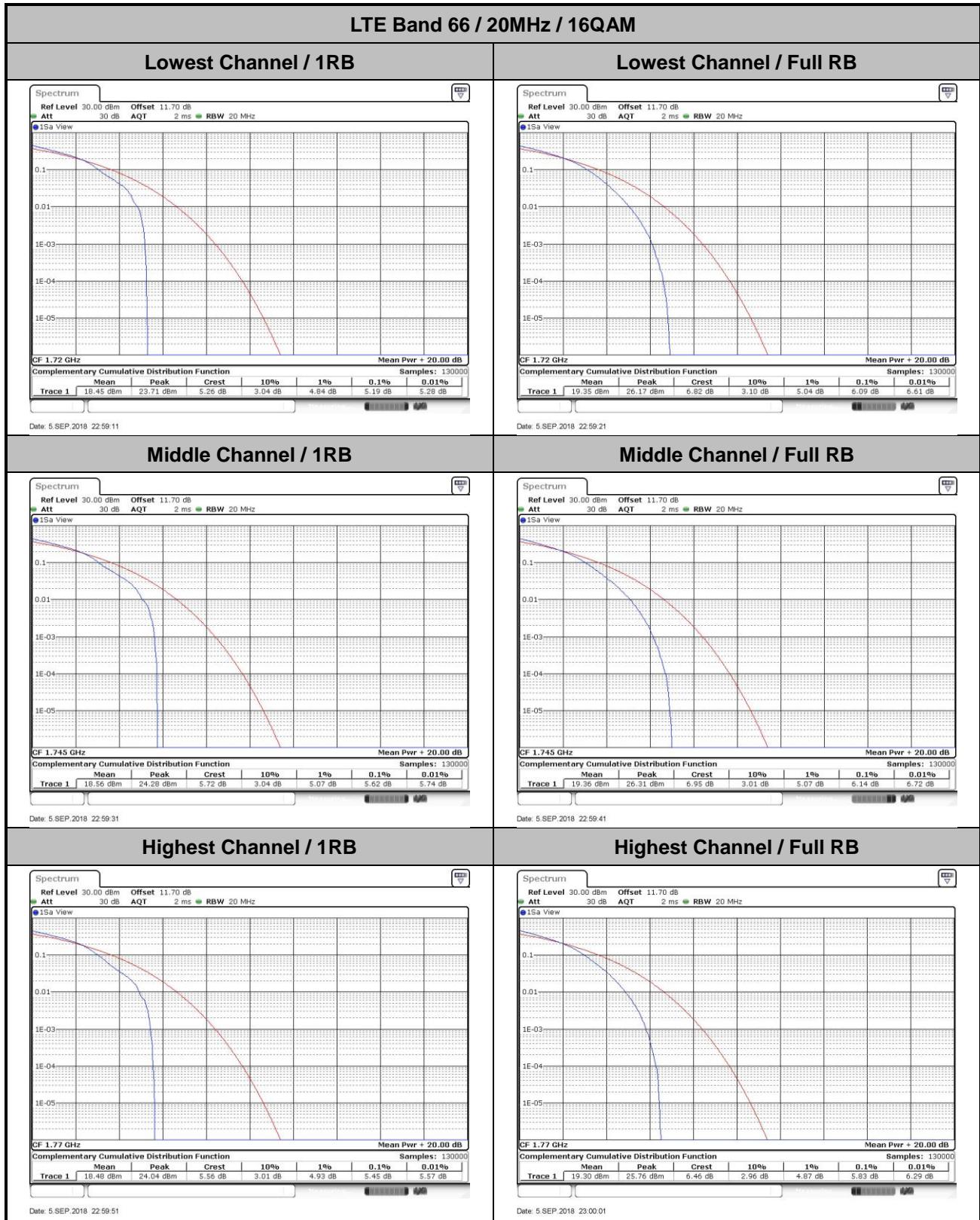


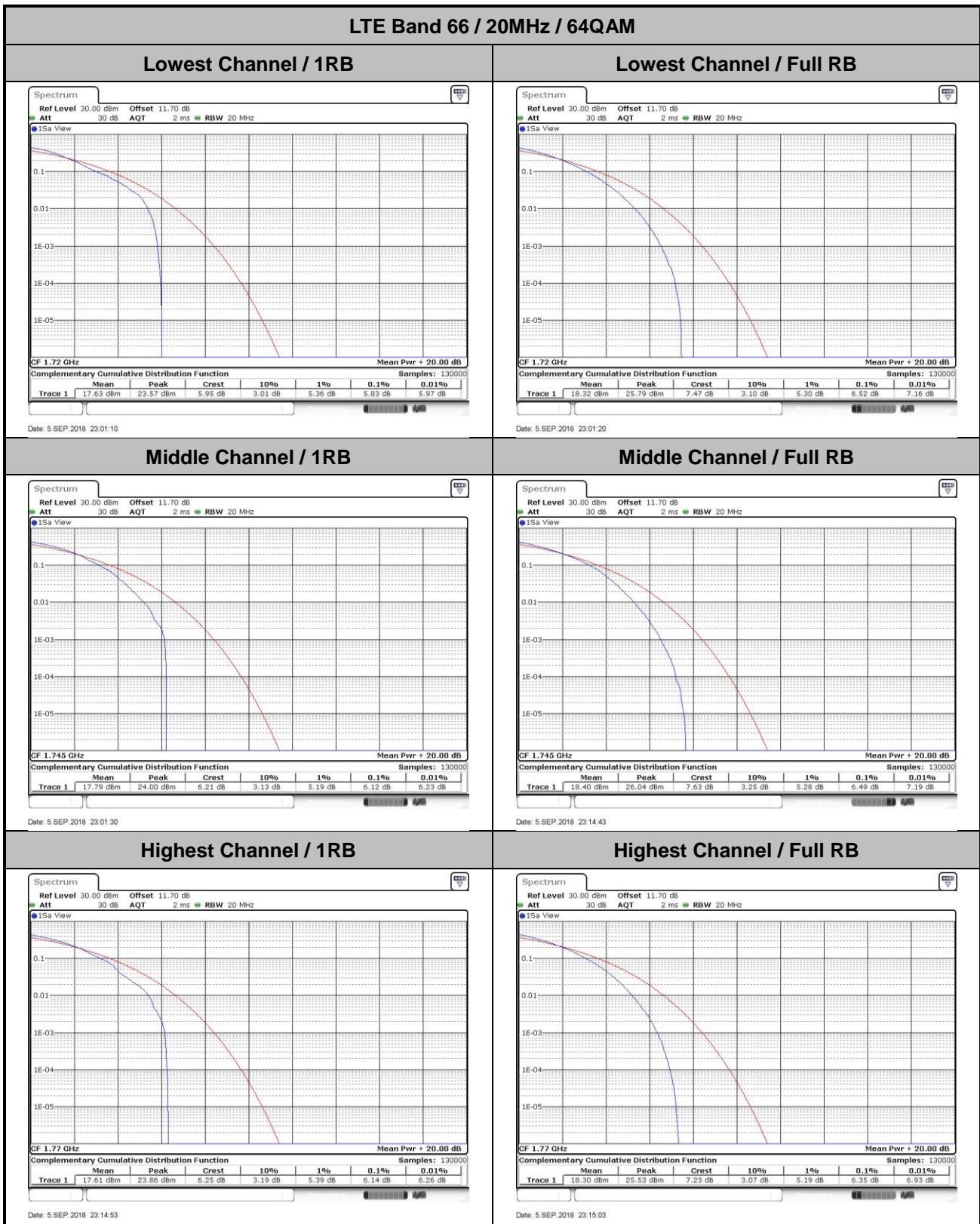
LTE Band 66

Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.03	5.04	5.19	6.09	PASS
Middle CH	4.64	5.13	5.62	6.14	
Highest CH	4.35	4.87	5.45	5.83	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.83	6.52	-	-	PASS
Middle CH	6.12	6.49	-	-	
Highest CH	6.14	6.35	-	-	







**26dB Bandwidth**

Mode	LTE Band 66 : 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	1.26	1.27	2.97	2.97	5.18	5.08	9.85	9.79	14.63	14.21	20.30	20.46
Middle CH	1.28	1.29	2.96	2.92	5.02	4.92	9.83	9.89	14.18	14.99	20.06	20.18
Highest CH	1.28	1.26	2.96	3.00	5.14	4.99	10.15	9.99	14.24	14.15	20.18	20.14
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.28	-	2.97	-	5.00	-	10.15	-	14.72	-	20.18	-
Middle CH	1.28	-	2.93	-	4.99	-	10.15	-	14.39	-	20.26	-
Highest CH	1.24	-	2.96	-	5.06	-	9.81	-	14.54	-	20.18	-

