

Report No.: HR/2019/1000501 Page: 1 of 54

# Appendix B

## E-UTRA Band 4



Report No.: HR/2019/1000501 Page: 2 of 54

## CONTENT

1. Effect	rive (Isotropic) Radiated Power	
1.1.	Test Result	
2. РЕАК-Т	то-Average Ratio(CCDF)	
2.1.	Test Result	
2.2.	Test Plots	
3. Modu	ILATION CHARACTERISTICS	
3.1.	Test BAND = LTE Band 4	
3.1.1.	Test Mode = LTE /TM1 20MHz	
3.1.1.1	. Test Channel = MCH	
3.1.2.	Test Mode = LTE /TM2 20MHz	
3.1.2.1	. Test Channel = MCH	
4. 26dB 8	Bandwidth and Occupied Bandwidth	
4.1.	Test Result	
4.2.	Test Plots	
5. BAND	Edge Compliance	
5.1.	Test Plots	
6. Spuric	DUS EMISSION AT ANTENNA TERMINAL	
6.1.	Test Plots	
7. FIELD S	Strength of Spurious Radiation	51
7.1.	Test BAND = LTE Band 4	
7.1.1.	Test Mode =LTE/TM1 20MHz	
7.1.1.1	. Test Channel = LCH	
7.1.1.2	. Test Channel = MCH	
7.1.1.3	P. Test Channel = HCH	
8. Frequ	IENCY STABILITY	53
8.1. I	Frequency Vs Voltage	
8.2. I	Frequency Vs Temperature	

Report No.: HR/2019/1000501 Page: 3 of 54

## 1. Effective (Isotropic) Radiated Power

## 1.1.Test Result

SG

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	24.20	24.52	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	24.21	24.53	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	24.32	24.64	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	24.42	24.74	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	24.41	24.73	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	24.40	24.72	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	23.11	23.43	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	24.37	24.69	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	24.27	24.59	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	24.34	24.66	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	24.28	24.60	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	24.27	24.59	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	24.25	24.57	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	23.08	23.40	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	24.11	24.43	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	24.25	24.57	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	24.18	24.50	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	24.36	24.68	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	24.38	24.70	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	24.28	24.60	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	23.08	23.40	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.58	22.90	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.25	23.57	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23.49	23.81	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	23.15	23.47	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	23.42	23.74	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	23.25	23.57	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	22.23	22.55	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.25	23.57	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.44	23.76	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.21	23.53	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	23.17	23.49	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	23.30	23.62	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	23.23	23.55	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.91	22.23	30.00	PASS

Report No.: HR/2019/1000501 Page: 4 of 54

Band4	1.4MHz	16QAM	20393	1RB#0	23.46	23.78	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.31	23.63	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	23.41	23.73	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	23.09	23.41	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	23.45	23.77	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	23.34	23.66	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	22.37	22.69	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	24.32	24.64	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	24.22	24.54	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	24.45	24.77	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	23.15	23.47	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	23.15	23.47	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	23.17	23.49	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	23.10	23.42	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.85	24.17	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	24.33	24.65	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	24.38	24.70	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	23.20	23.52	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	23.19	23.51	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	23.12	23.44	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.17	23.49	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	24.25	24.57	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	24.25	24.57	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	24.32	24.64	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	23.12	23.44	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	23.15	23.47	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	23.18	23.50	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	23.18	23.50	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.46	23.78	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.28	23.60	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	23.25	23.57	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	22.08	22.40	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	22.34	22.66	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	22.29	22.61	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	22.18	22.50	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.56	22.88	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.78	23.10	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.41	22.73	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	22.20	22.52	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	22.32	22.64	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	22.26	22.58	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	22.35	22.67	30.00	PASS
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Report No.: HR/2019/1000501 Page: 5 of 54

Band4	3MHz	16QAM	20385	1RB#0	22.92	23.24	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.90	23.22	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.80	23.12	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	22.21	22.53	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	22.22	22.54	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	22.30	22.62	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	22.35	22.67	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	24.02	24.34	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	24.42	24.74	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	24.21	24.53	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	23.05	23.37	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	23.04	23.36	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	23.02	23.34	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.07	23.39	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.87	24.19	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	24.04	24.36	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	24.01	24.33	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	23.03	23.35	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	23.06	23.38	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	23.01	23.33	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	23.09	23.41	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	24.15	24.47	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	24.35	24.67	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	24.33	24.65	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	23.28	23.60	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	23.30	23.62	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	23.17	23.49	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	23.21	23.53	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	23.15	23.47	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.12	23.44	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.64	22.96	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.92	22.24	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	22.00	22.32	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	22.13	22.45	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.94	22.26	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.45	22.77	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.25	22.57	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.23	22.55	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	22.06	22.38	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.93	22.25	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	22.00	22.32	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	22.17	22.49	30.00	PASS
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Report No.: HR/2019/1000501 Page: 6 of 54

Band4	5MHz	16QAM	20375	1RB#0	22.53	22.85	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.76	23.08	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.49	22.81	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	22.18	22.50	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	22.16	22.48	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	22.15	22.47	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	22.28	22.60	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.90	24.22	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	24.41	24.73	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	24.19	24.51	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	23.09	23.41	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	23.22	23.54	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	23.23	23.55	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	23.16	23.48	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	24.10	24.42	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	24.49	24.81	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	24.32	24.64	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	23.13	23.45	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	23.10	23.42	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	23.08	23.40	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.13	23.45	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	24.22	24.54	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	24.46	24.78	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	24.49	24.81	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	23.34	23.66	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	23.34	23.66	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	23.26	23.58	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	23.24	23.56	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.67	22.99	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.46	23.78	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.39	23.71	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	22.15	22.47	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	22.27	22.59	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	22.22	22.54	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	22.32	22.64	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	23.26	23.58	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.93	23.25	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.48	22.80	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	22.07	22.39	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	22.16	22.48	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	22.09	22.41	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	22.16	22.48	30.00	PASS
Danat	1.010112	10001101	20110	SUILDINU	-2.10	-2.10	00.00	

Report No.: HR/2019/1000501 Page: 7 of 54

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Band4	10MHz	16QAM	20350	1RB#0	23.47	23.79	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.49	23.81	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.26	23.58	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	22.26	22.58	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	22.36	22.68	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	22.32	22.64	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	22.29	22.61	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	24.25	24.57	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	24.42	24.74	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	24.08	24.40	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	23.22	23.54	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	23.26	23.58	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	23.25	23.57	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	23.18	23.50	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.90	24.22	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	24.16	24.48	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	24.29	24.61	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	23.19	23.51	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	23.11	23.43	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	23.07	23.39	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.14	23.46	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	24.32	24.64	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	24.41	24.73	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	24.42	24.74	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	23.23	23.55	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	23.30	23.62	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	23.36	23.68	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	23.26	23.58	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.81	23.13	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.94	23.26	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.80	23.12	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	22.29	22.61	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	22.27	22.59	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	22.37	22.69	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	22.32	22.64	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.31	22.63	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.78	23.10	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.68	23.00	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	22.16	22.48	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	22.11	22.43	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	22.35	22.67	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	22.16	22.48	30.00	PASS
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Report No.: HR/2019/1000501 Page: 8 of 54

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Band4	15MHz	16QAM	20325	1RB#0	23.39	23.71	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.48	23.80	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.35	23.67	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	22.19	22.51	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	22.37	22.69	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	22.40	22.72	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	22.38	22.70	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	24.39	24.71	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	24.49	24.81	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	24.49	24.81	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	23.30	23.62	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	23.28	23.60	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	23.20	23.52	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	23.21	23.53	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	24.02	24.34	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	24.11	24.43	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	24.17	24.49	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	23.14	23.46	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	23.01	23.33	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	23.33	23.65	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	23.13	23.45	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	24.11	24.43	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	24.46	24.78	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.96	24.28	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	23.40	23.72	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	23.36	23.68	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	23.24	23.56	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	23.17	23.49	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.67	22.99	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.14	23.46	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.69	23.01	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	22.24	22.56	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	22.33	22.65	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	22.29	22.61	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.22	22.54	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	23.23	23.55	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.43	23.75	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.56	22.88	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	22.13	22.45	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	22.22	22.54	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.95	22.27	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	22.17	22.49	30.00	PASS
		1	I	1	I	I	1	

Report No.: HR/2019/1000501 Page: 9 of 54

Band4	20MHz	16QAM	20300	1RB#0	23.11	23.43	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.35	23.67	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.68	23.00	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	22.37	22.69	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	22.36	22.68	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	22.31	22.63	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	22.17	22.49	30.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

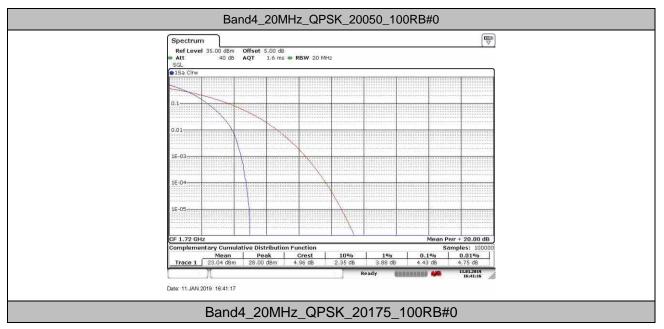
Report No.: HR/2019/1000501 Page: 10 of 54

## 2. Peak-to-Average Ratio(CCDF)

## 2.1.Test Result

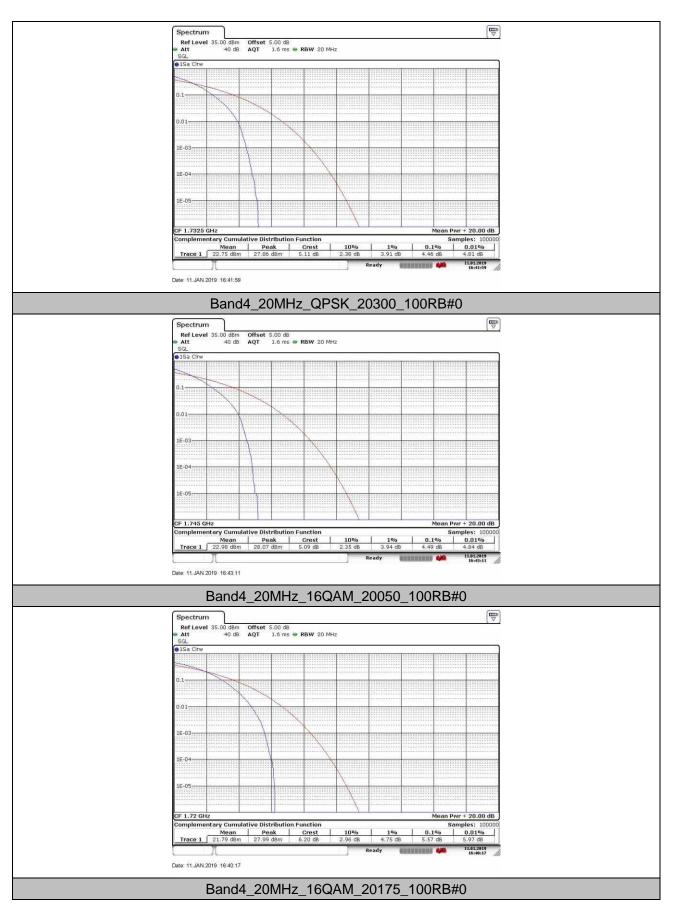
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.43	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.46	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.49	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.57	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.48	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.51	13	PASS

### 2.2. Test Plots



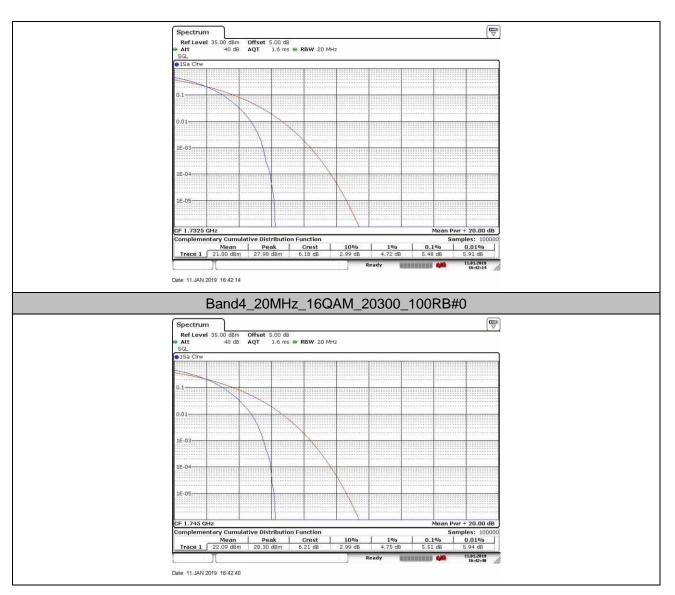


Report No.: HR/2019/1000501 Page: 11 of 54





Report No.: HR/2019/1000501 Page: 12 of 54



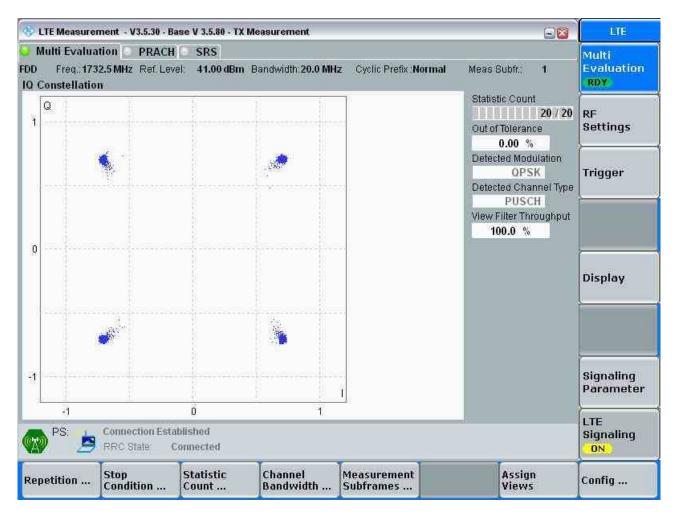
Report No.: HR/2019/1000501 Page: 13 of 54

## 3. Modulation Characteristics

3.1.Test BAND = LTE Band 4

### 3.1.1. Test Mode = LTE /TM1 20MHz

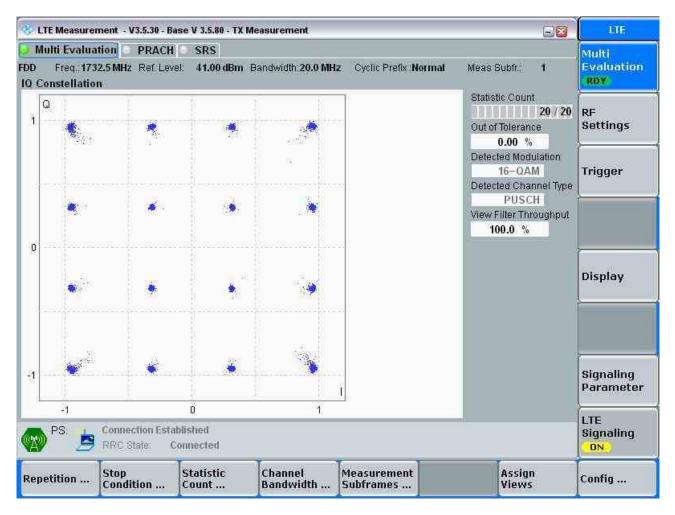
### 3.1.1.1. Test Channel = MCH



Report No.: HR/2019/1000501 Page: 14 of 54

#### 3.1.2. Test Mode = LTE /TM2 20MHz

#### 3.1.2.1. Test Channel = MCH



Report No.: HR/2019/1000501 Page: 15 of 54

## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1.Test Result

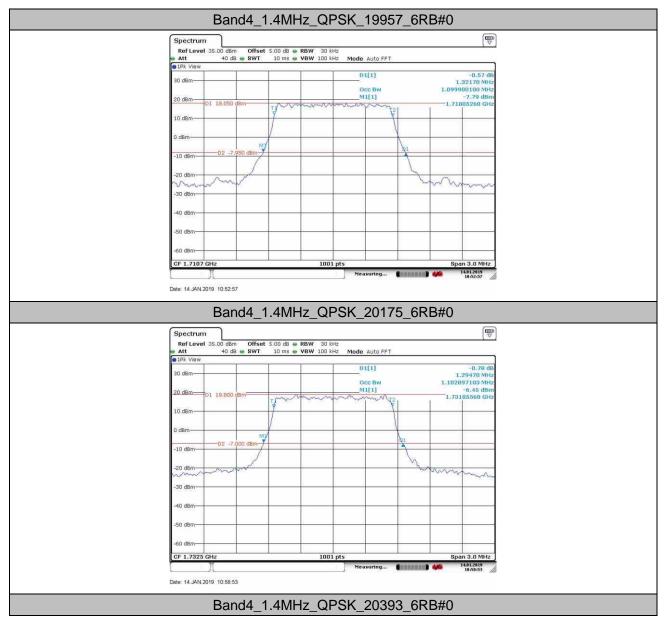
SG

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.100	1.322	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.102	1.295	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.097	1.319	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.097	1.286	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.097	1.310	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.100	1.307	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	2.295	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.685	2.937	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.685	2.295	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	2.295	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.685	2.937	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	2.967	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	4.925	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.895	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.486	4.915	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.935	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	4.945	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.476	4.875	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.770	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.650	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.663	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.931	9.590	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.931	9.650	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.931	9.683	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.457	14.805	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.397	14.595	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.427	14.790	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.457	14.715	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.427	14.701	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.457	14.790	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.862	19.221	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.862	19.421	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.862	19.261	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.902	19.341	PASS

Report No.: HR/2019/1000501 Page: 16 of 54

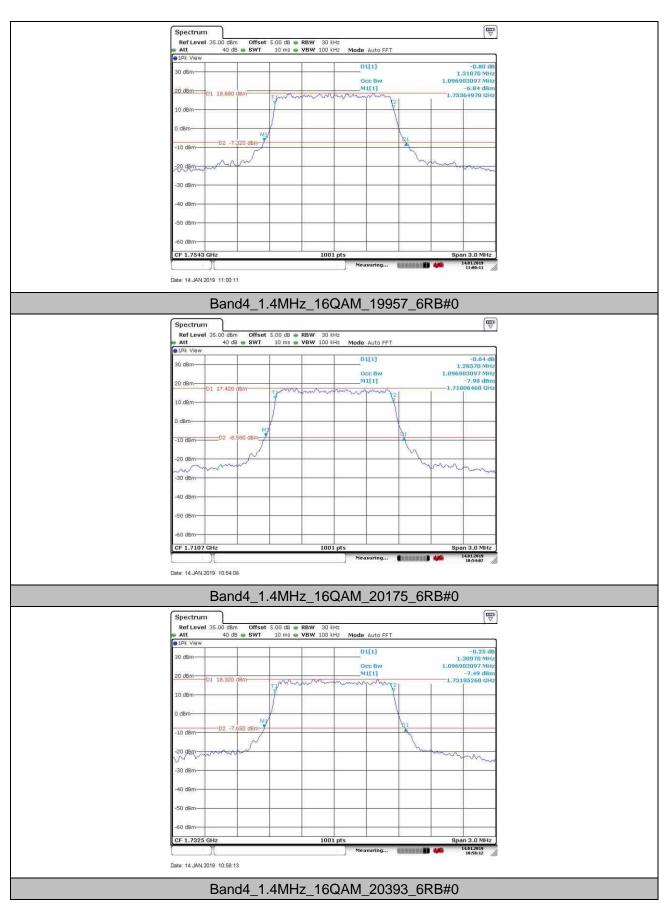
Band4	20MHz	16QAM	20175	100RB#0	17.862	19.301	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.902	19.500	PASS

## 4.2. Test Plots



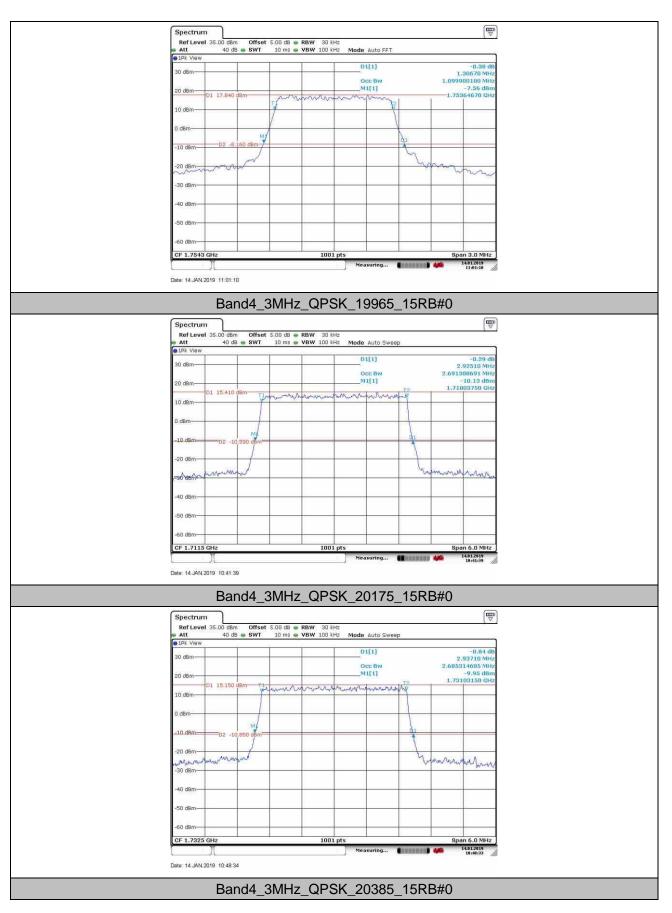


Report No.: HR/2019/1000501 Page: 17 of 54



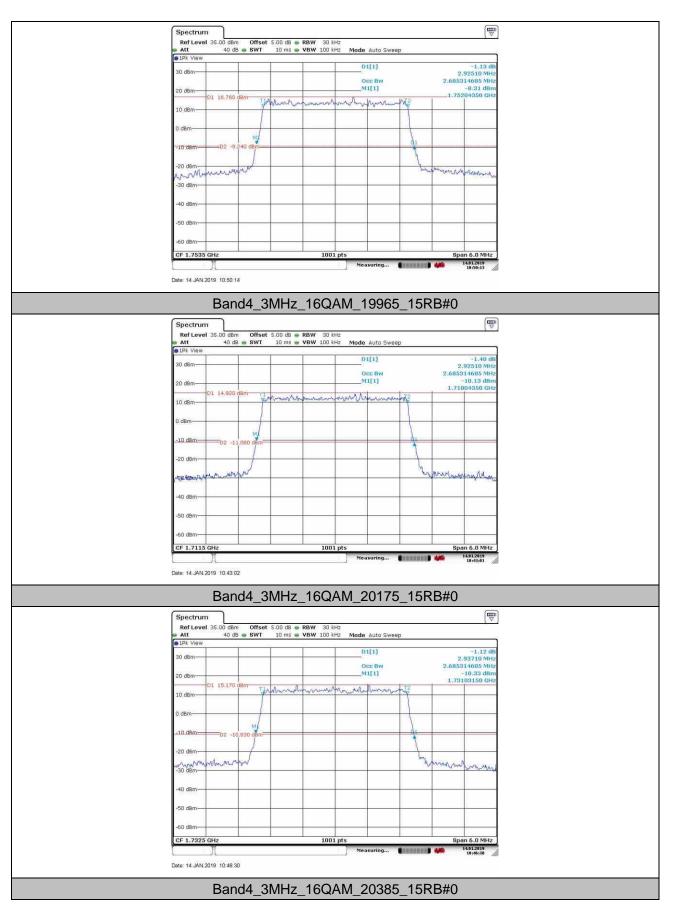


Report No.: HR/2019/1000501 Page: 18 of 54



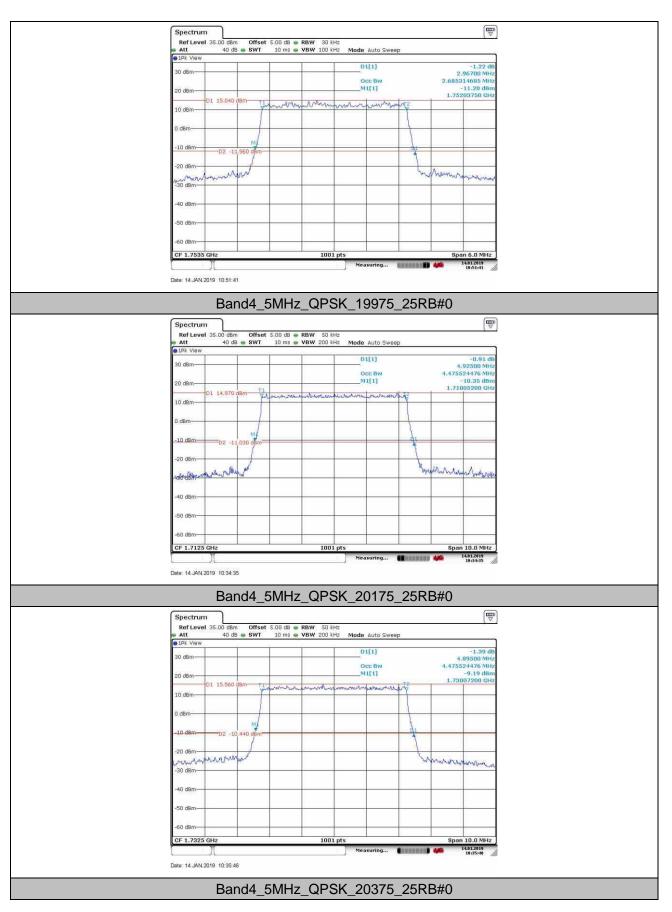


Report No.: HR/2019/1000501 Page: 19 of 54



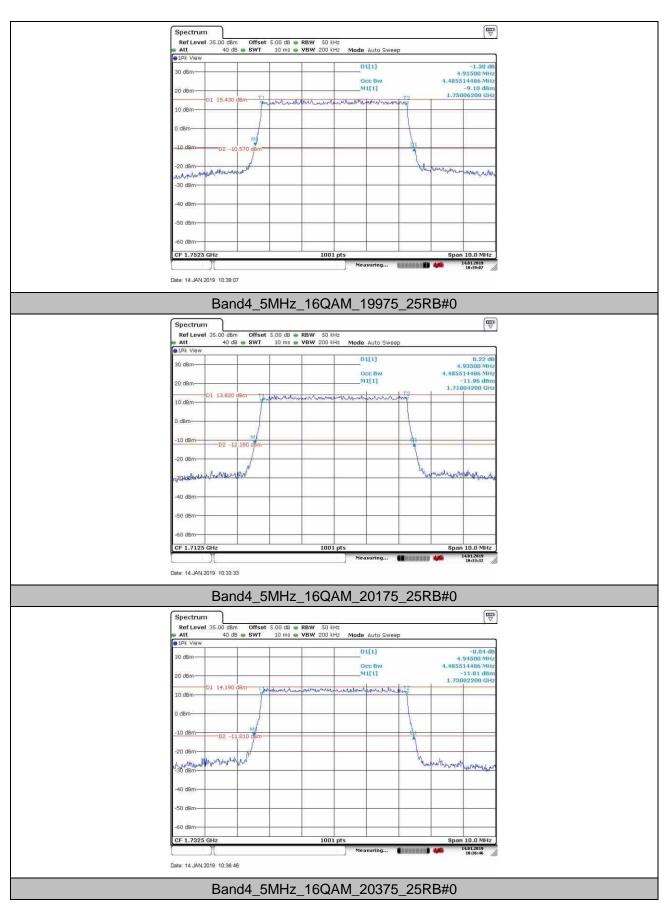


Report No.: HR/2019/1000501 Page: 20 of 54



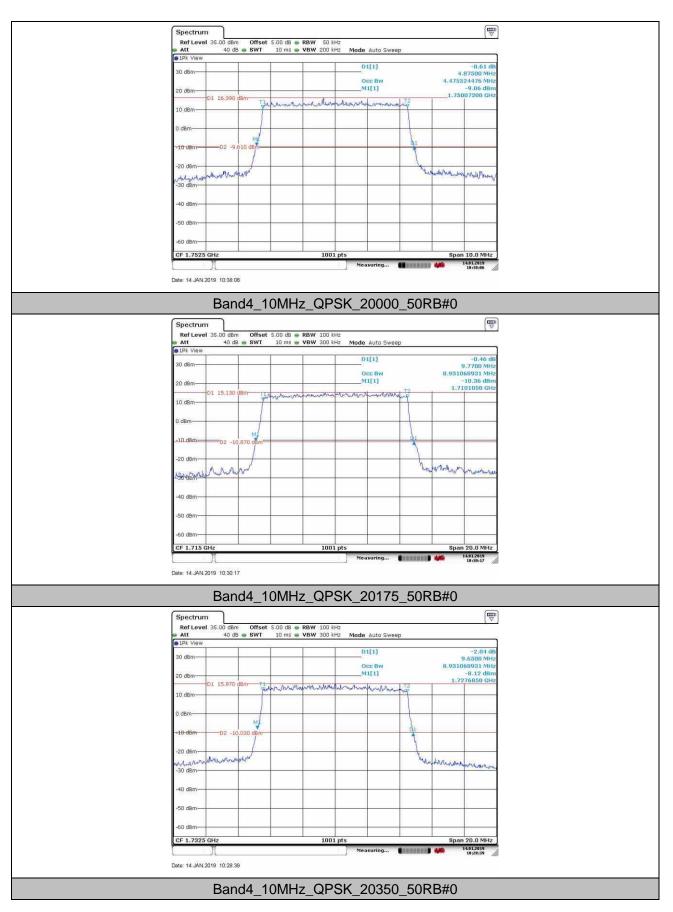


Report No.: HR/2019/1000501 Page: 21 of 54



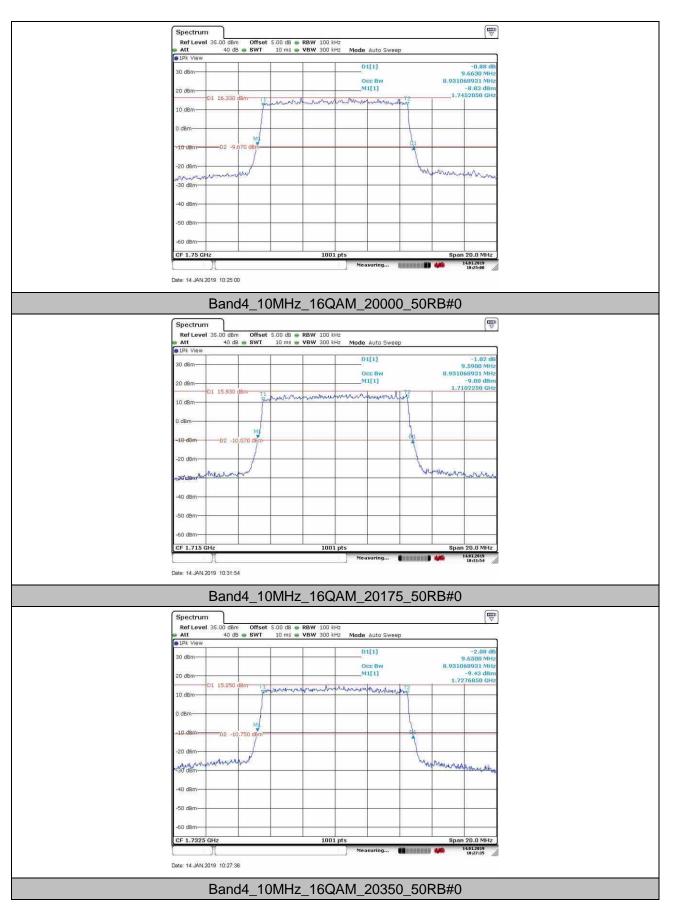


Report No.: HR/2019/1000501 Page: 22 of 54



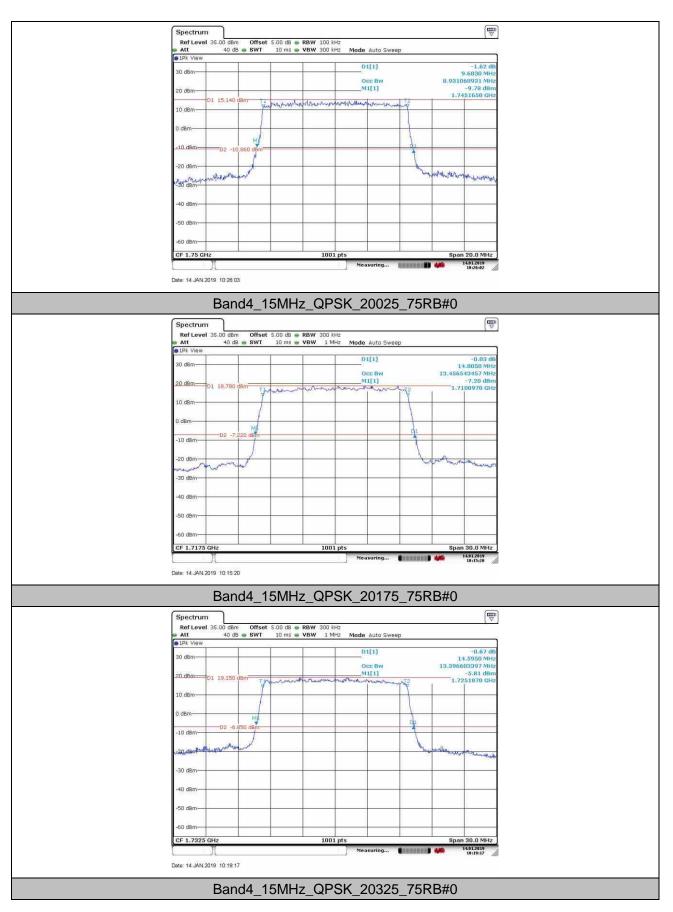


Report No.: HR/2019/1000501 Page: 23 of 54



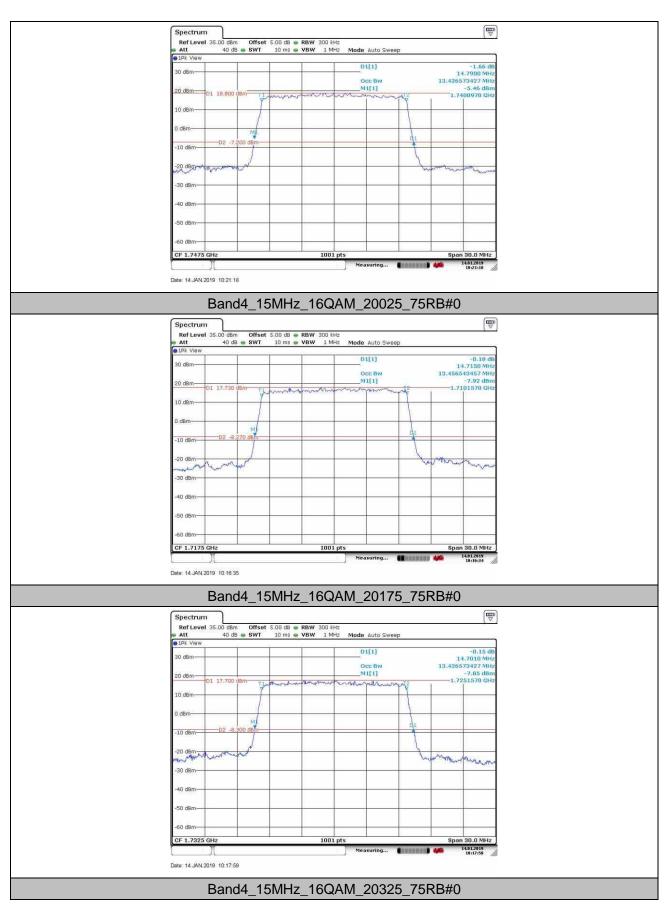


Report No.: HR/2019/1000501 Page: 24 of 54



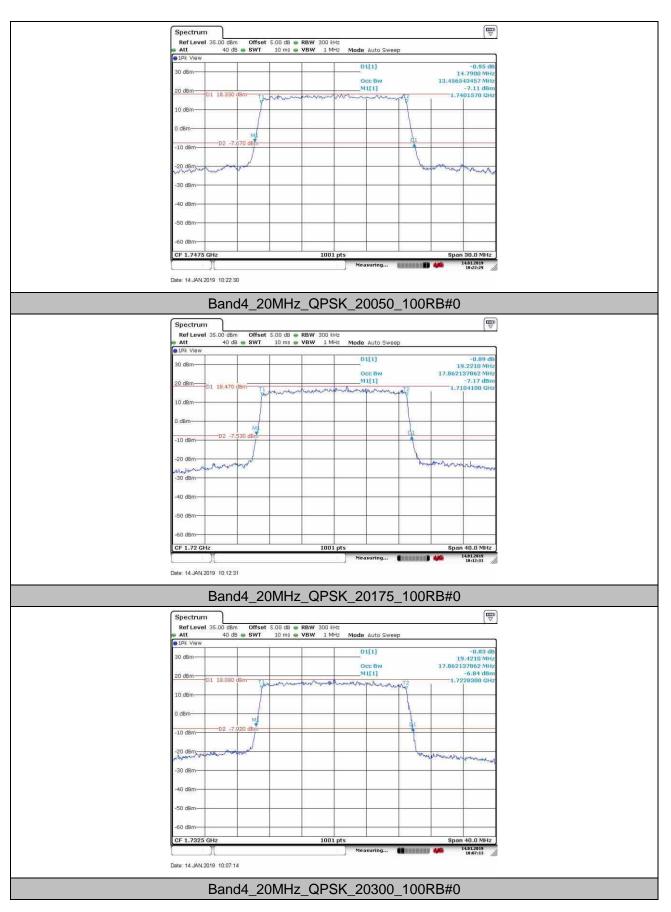


Report No.: HR/2019/1000501 Page: 25 of 54



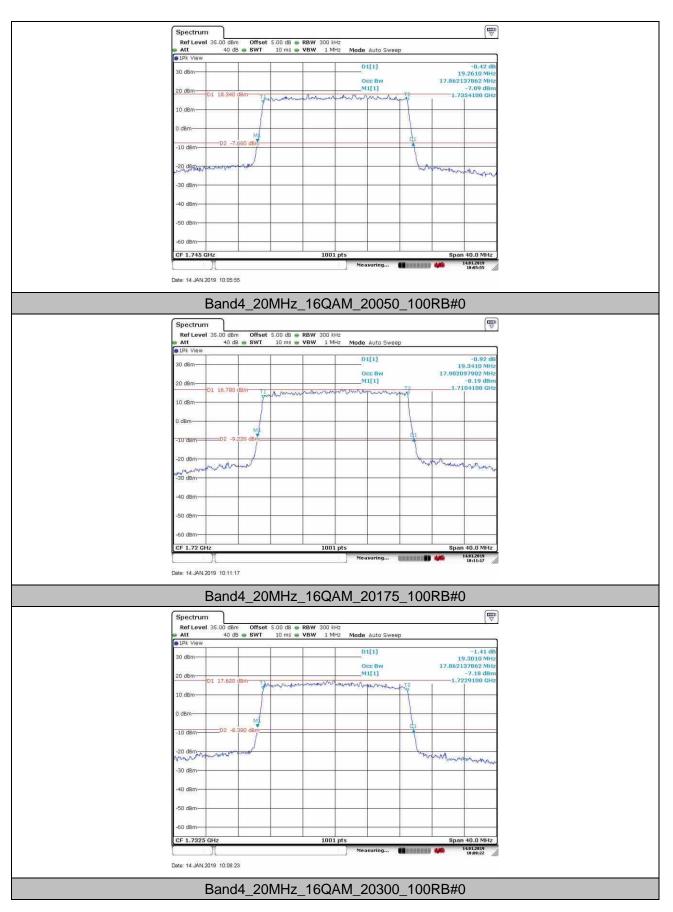


Report No.: HR/2019/1000501 Page: 26 of 54



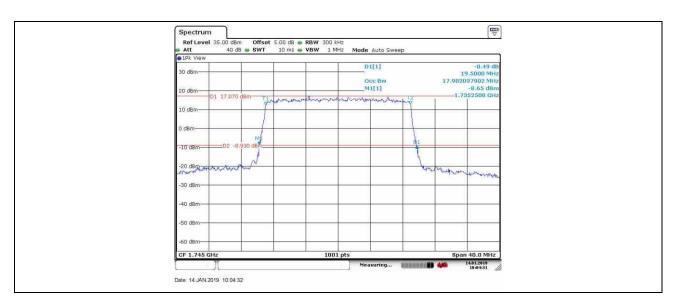


Report No.: HR/2019/1000501 Page: 27 of 54





Report No.: HR/2019/1000501 Page: 28 of 54

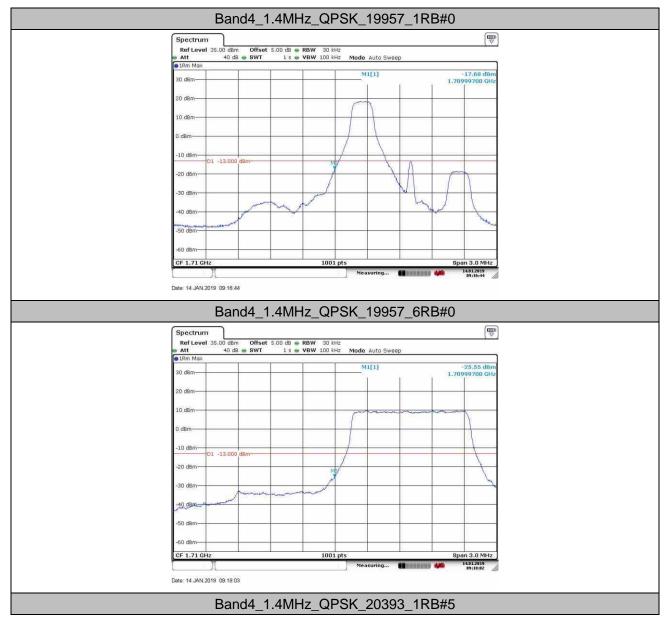




Report No.: HR/2019/1000501 Page: 29 of 54

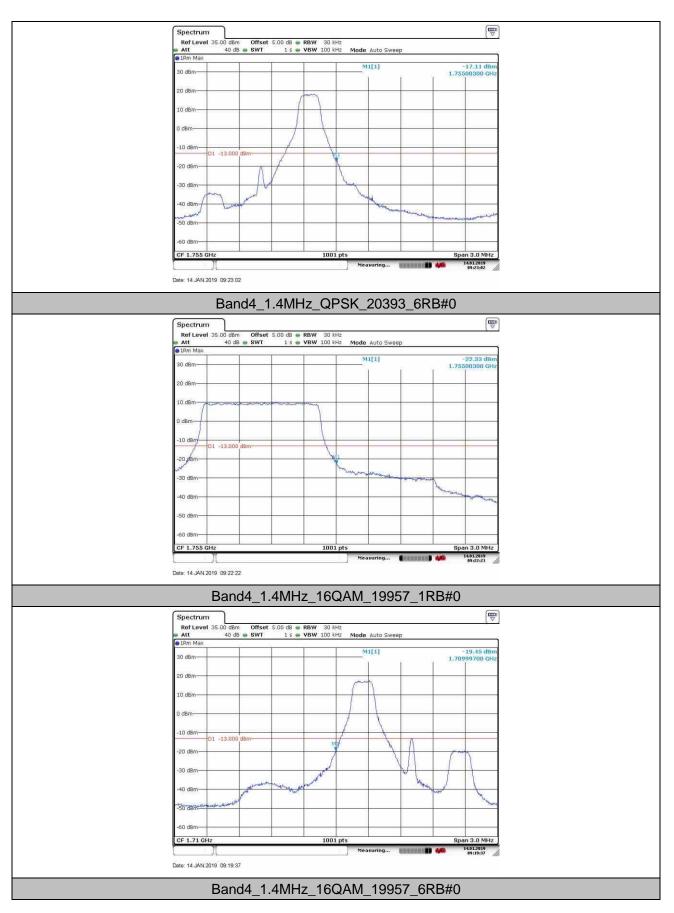
## 5. Band Edge Compliance

#### 5.1.Test Plots



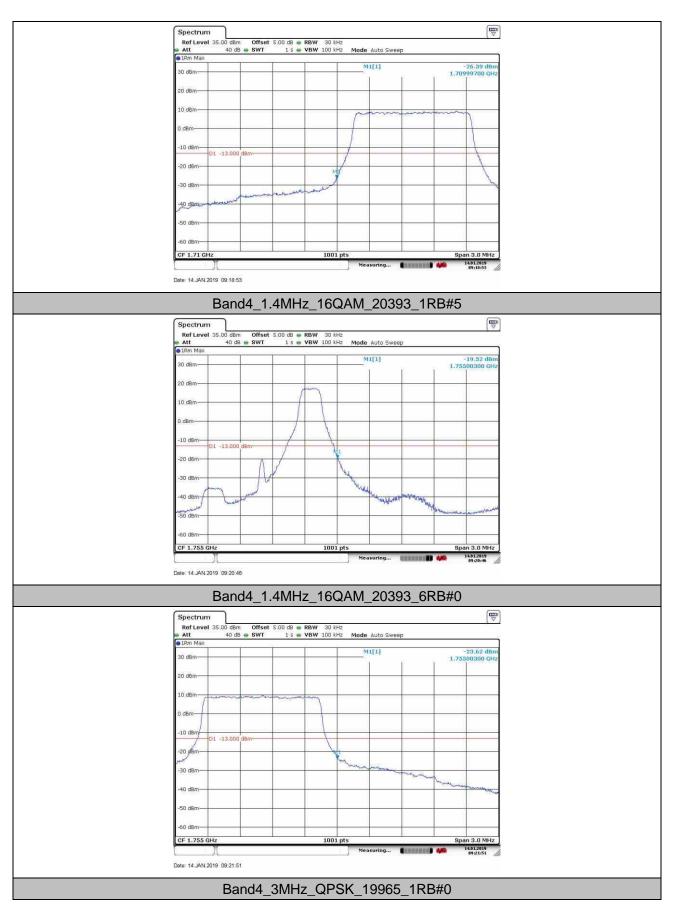


Report No.: HR/2019/1000501 Page: 30 of 54



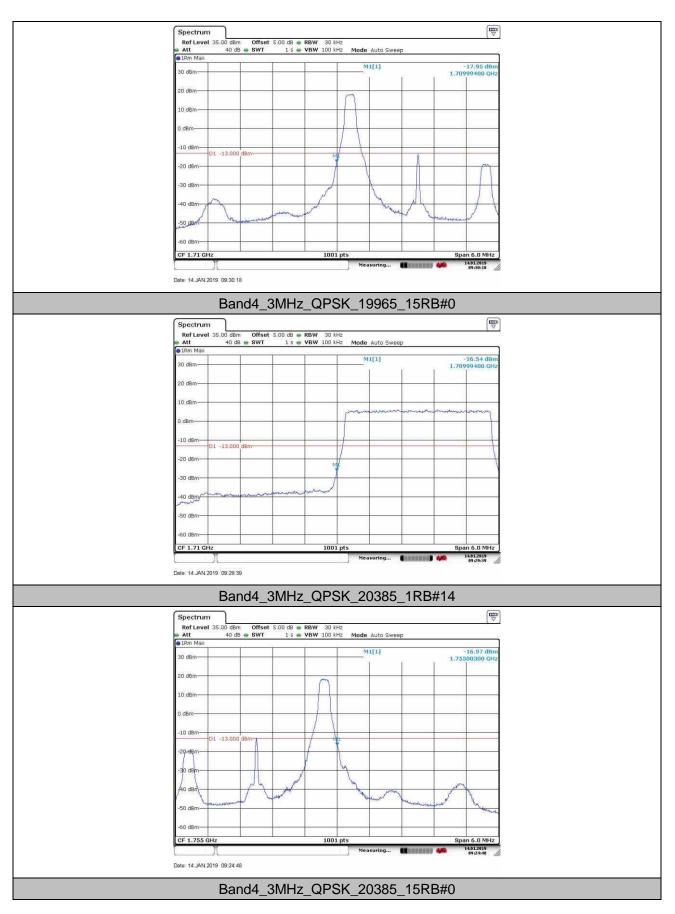


Report No.: HR/2019/1000501 Page: 31 of 54



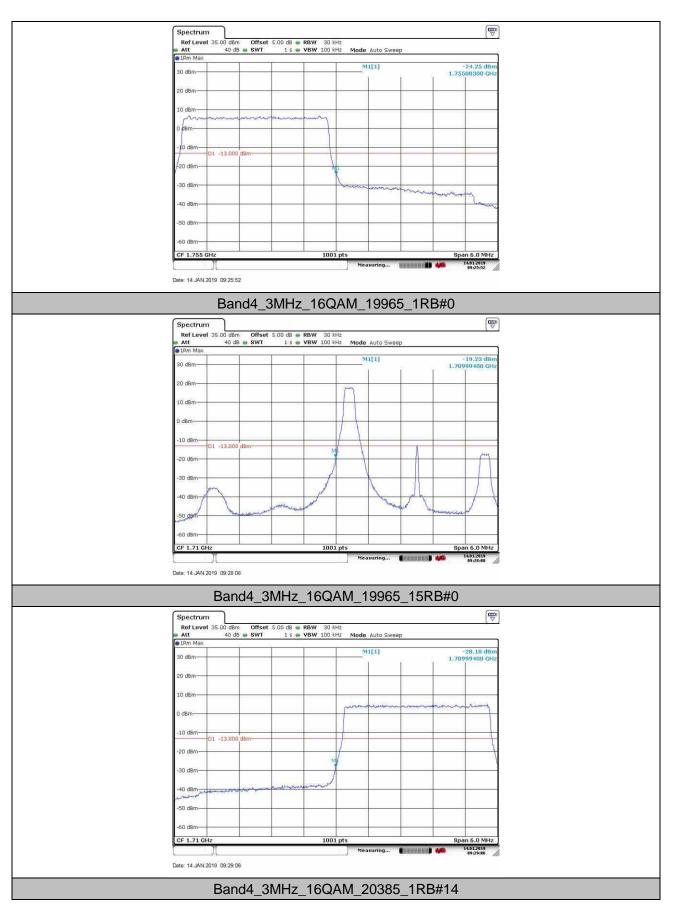


Report No.: HR/2019/1000501 Page: 32 of 54



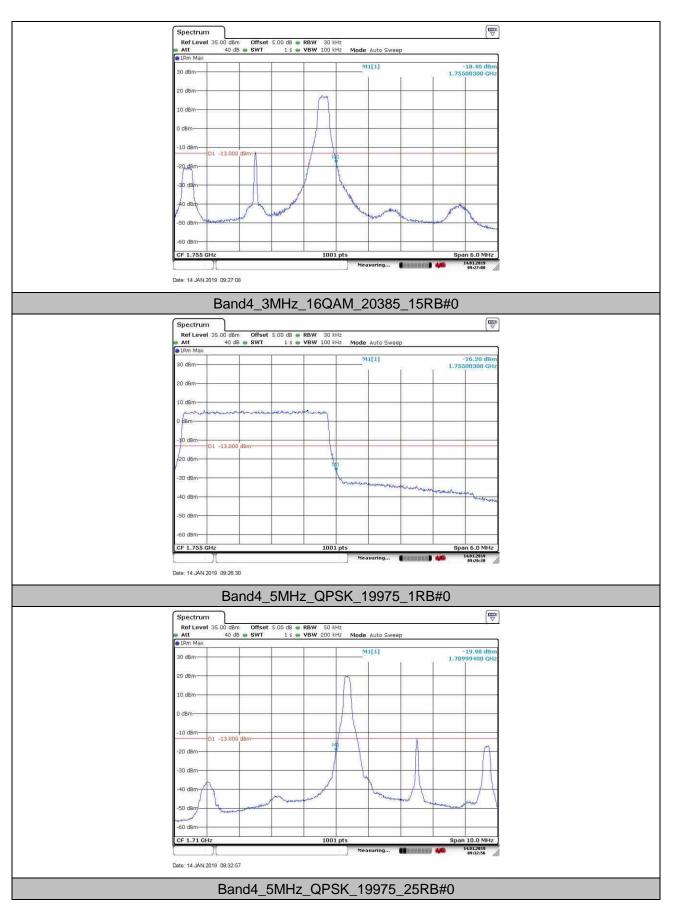


Report No.: HR/2019/1000501 Page: 33 of 54



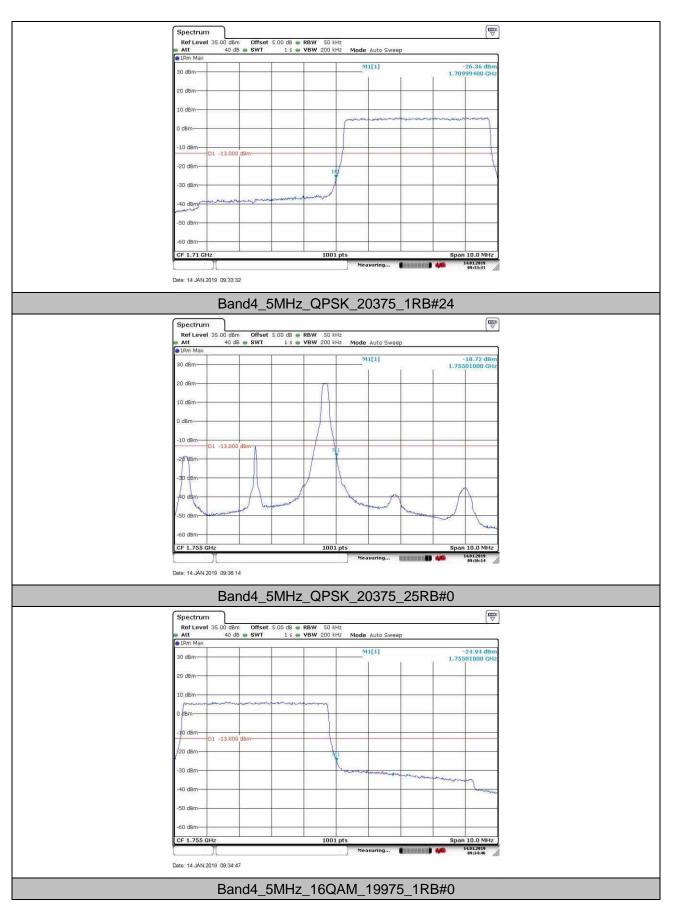


Report No.: HR/2019/1000501 Page: 34 of 54



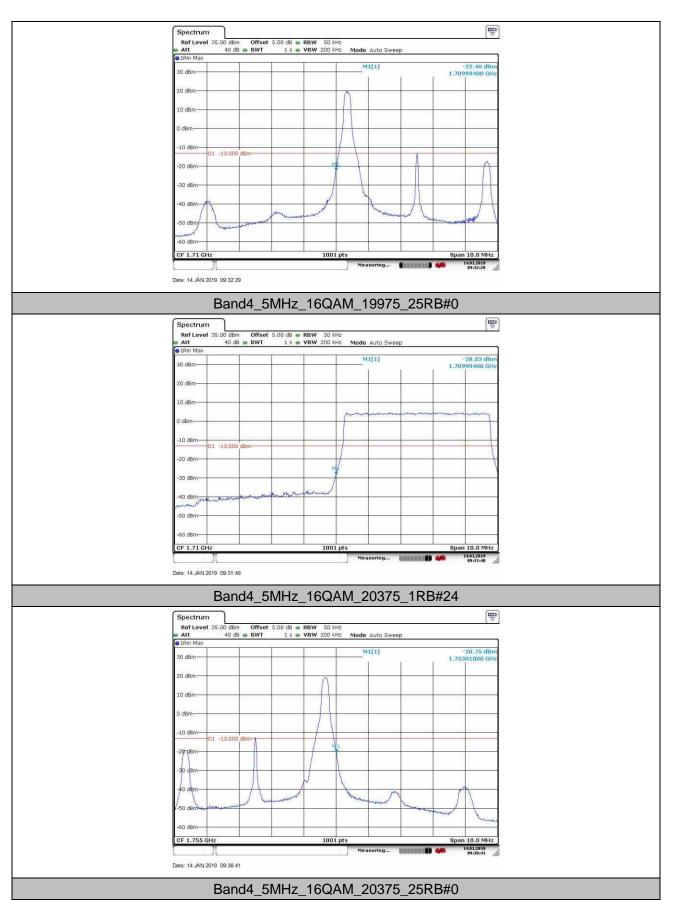


Report No.: HR/2019/1000501 Page: 35 of 54



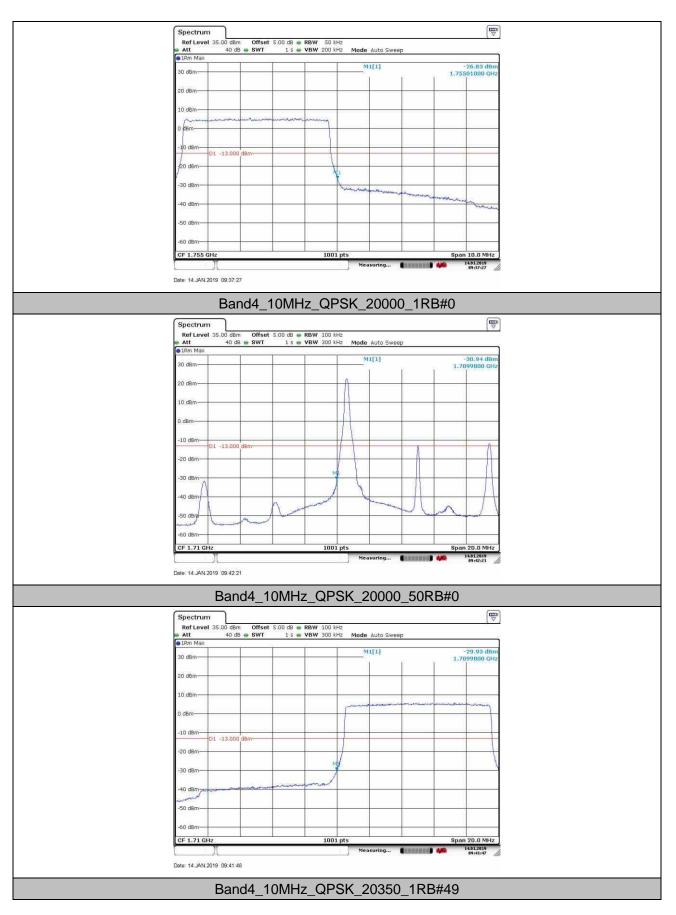


Report No.: HR/2019/1000501 Page: 36 of 54



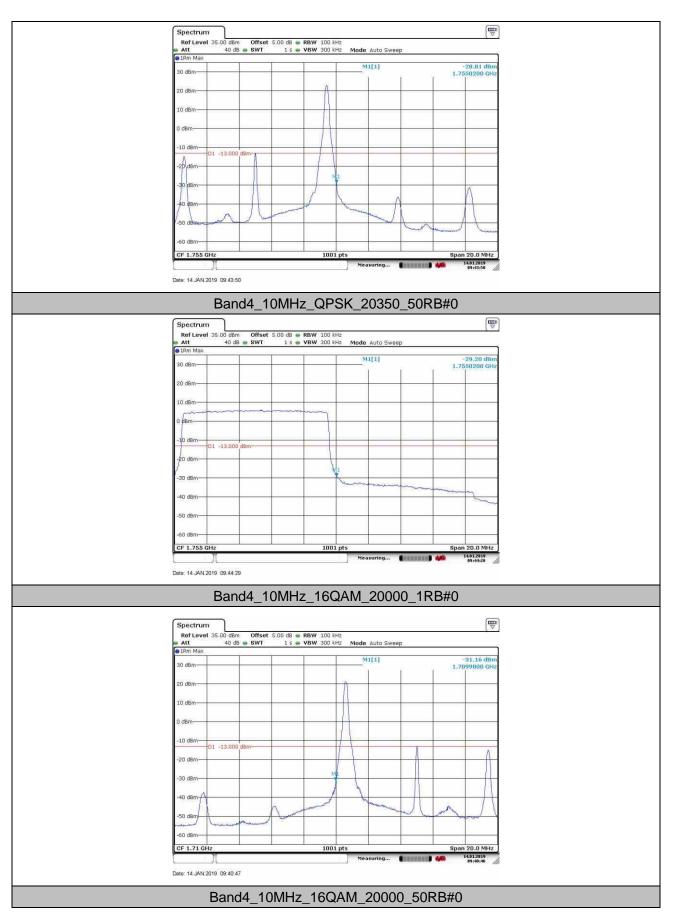


Report No.: HR/2019/1000501 Page: 37 of 54



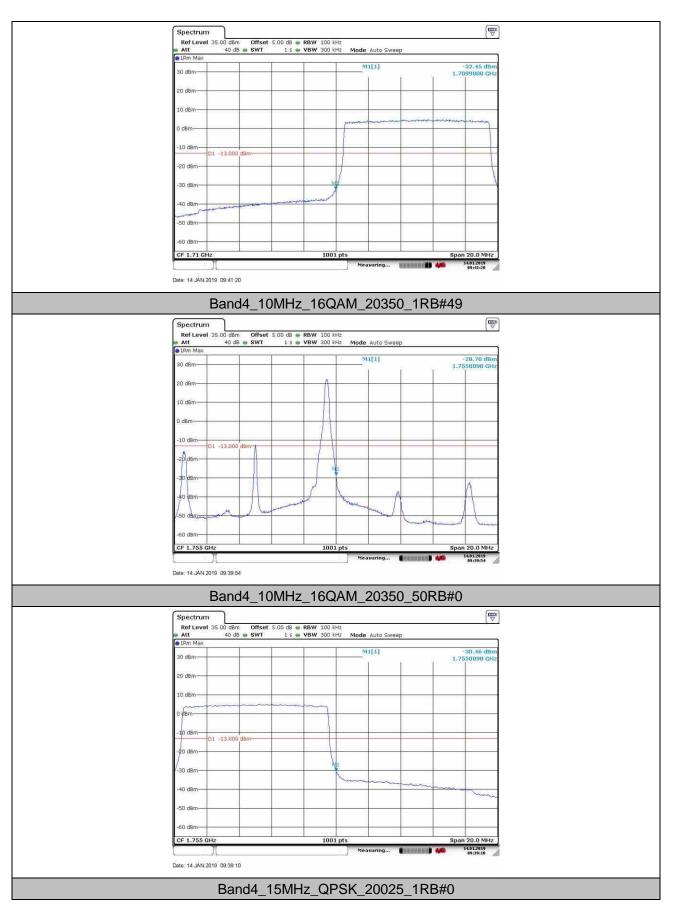


Report No.: HR/2019/1000501 Page: 38 of 54



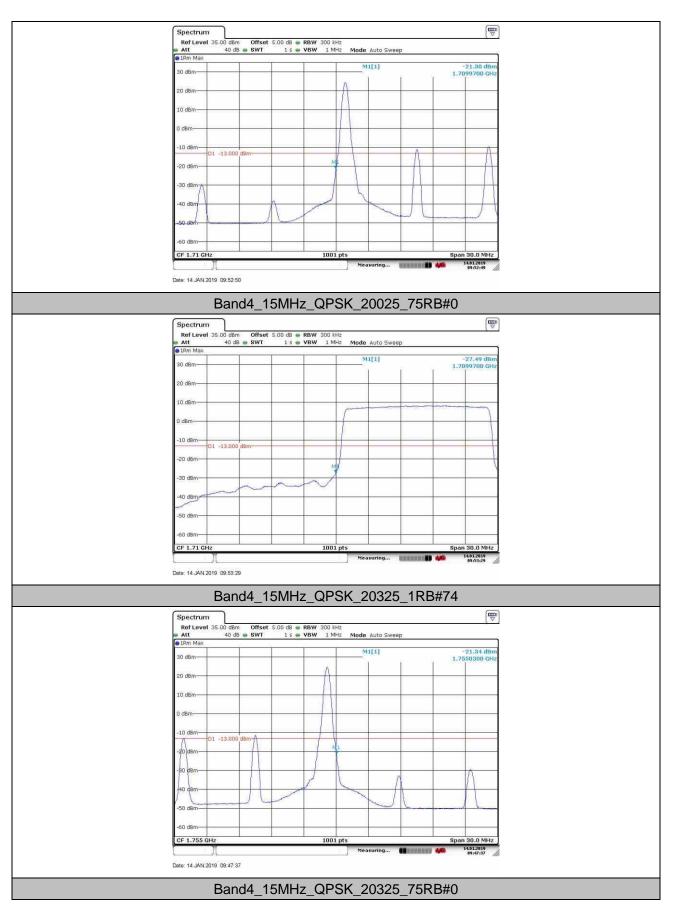


Report No.: HR/2019/1000501 Page: 39 of 54



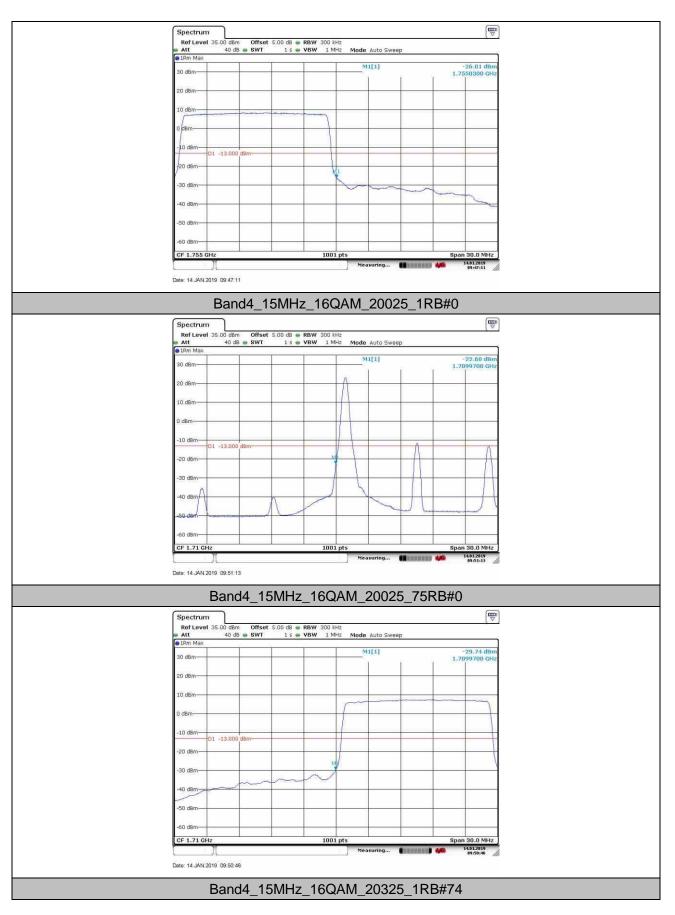


Report No.: HR/2019/1000501 Page: 40 of 54



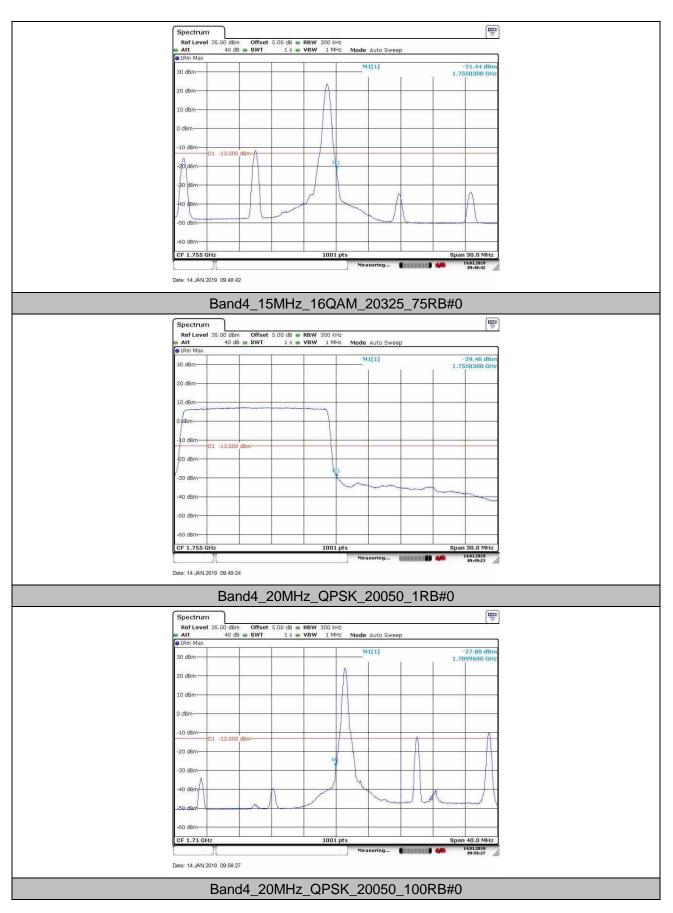


Report No.: HR/2019/1000501 Page: 41 of 54



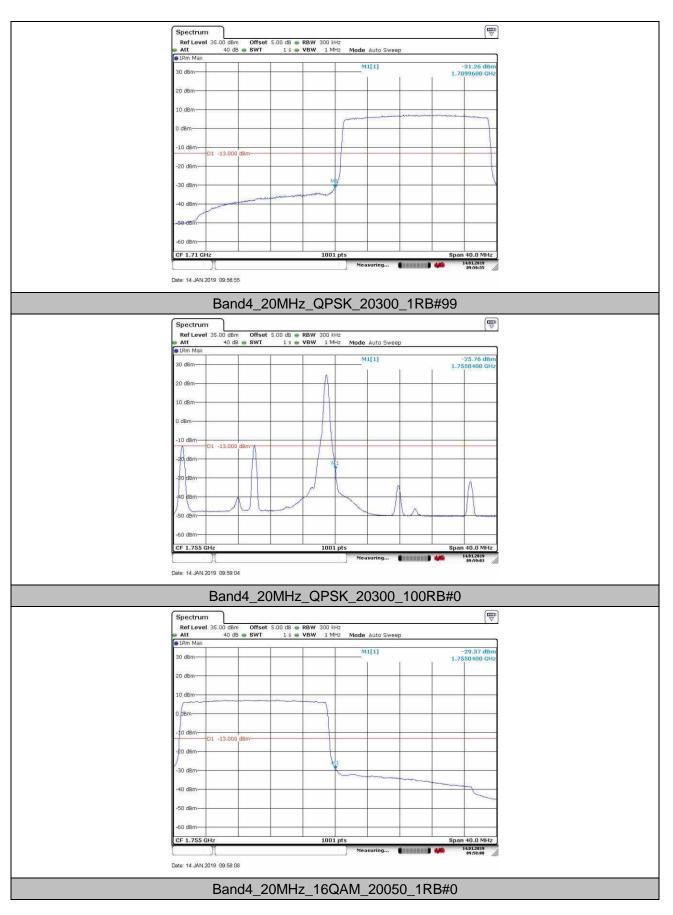


Report No.: HR/2019/1000501 Page: 42 of 54





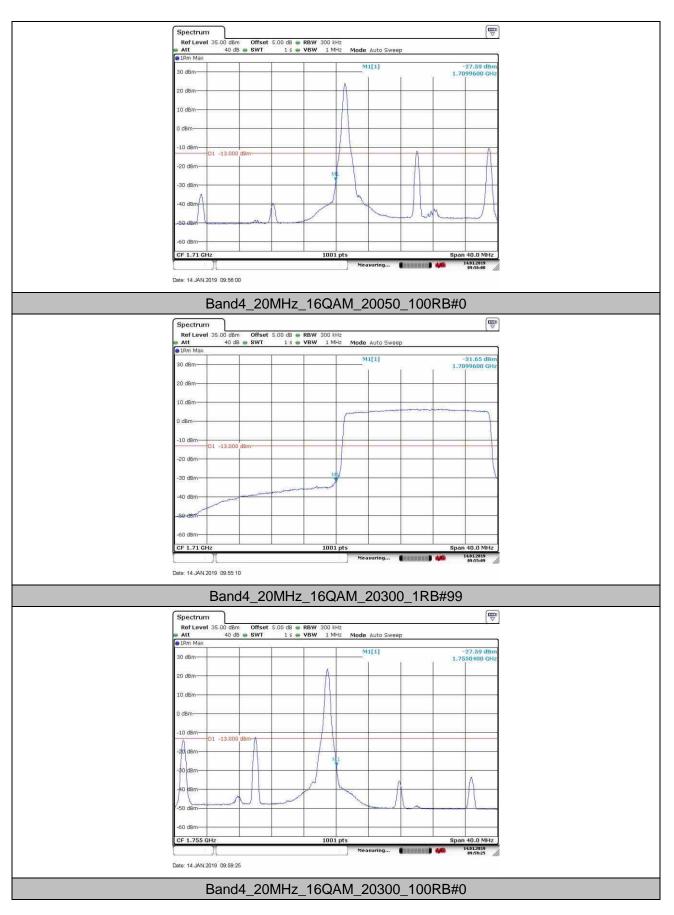
Report No.: HR/2019/1000501 Page: 43 of 54



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Report No.: HR/2019/1000501 Page: 44 of 54





Report No.: HR/2019/1000501 Page: 45 of 54

1Rm Max	VBW 1 MHz Mode Auto Sweep	
30 dBm	M1[1]	-31.36 dBm 1.7558400 GHz
20 dBm		
10 dBm		
0 #Bm		
-10 dBm D1 -13.000 dBm		
-20 dBm		
-30 dBm	Nº.	
-40 dBm		
-50 dBm		
-60 dBm		

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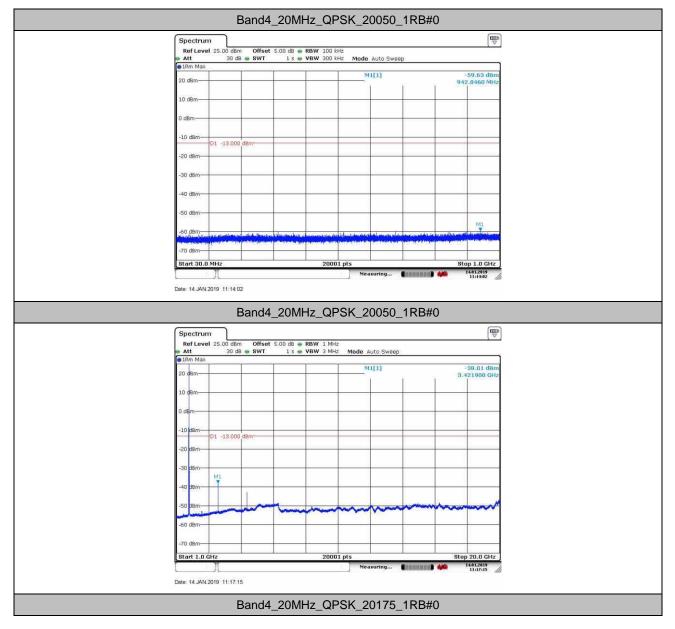
Report No.: HR/2019/1000501 Page: 46 of 54

# 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k \* (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

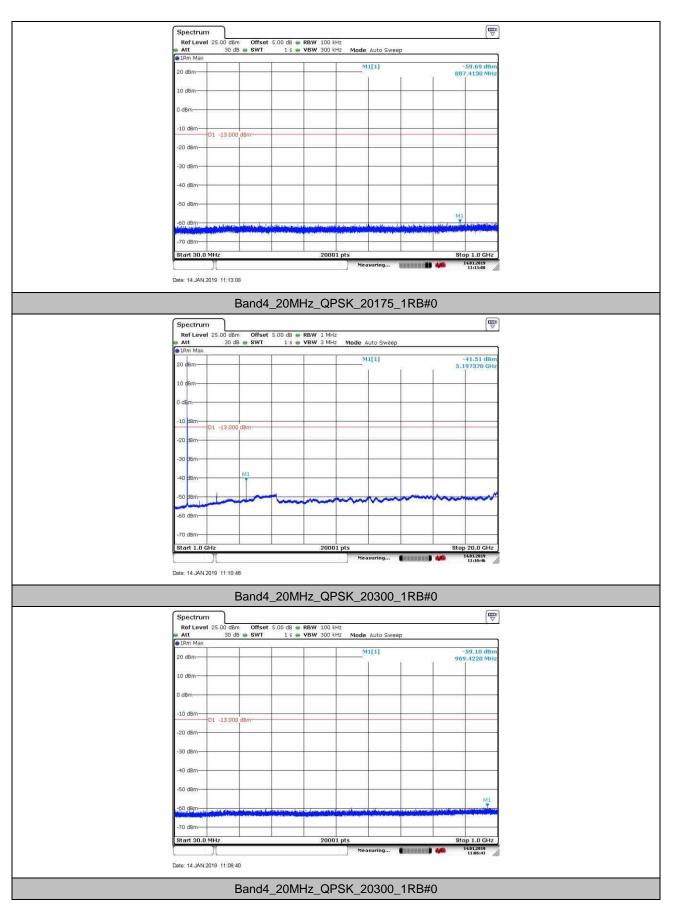
#### 6.1. Test Plots



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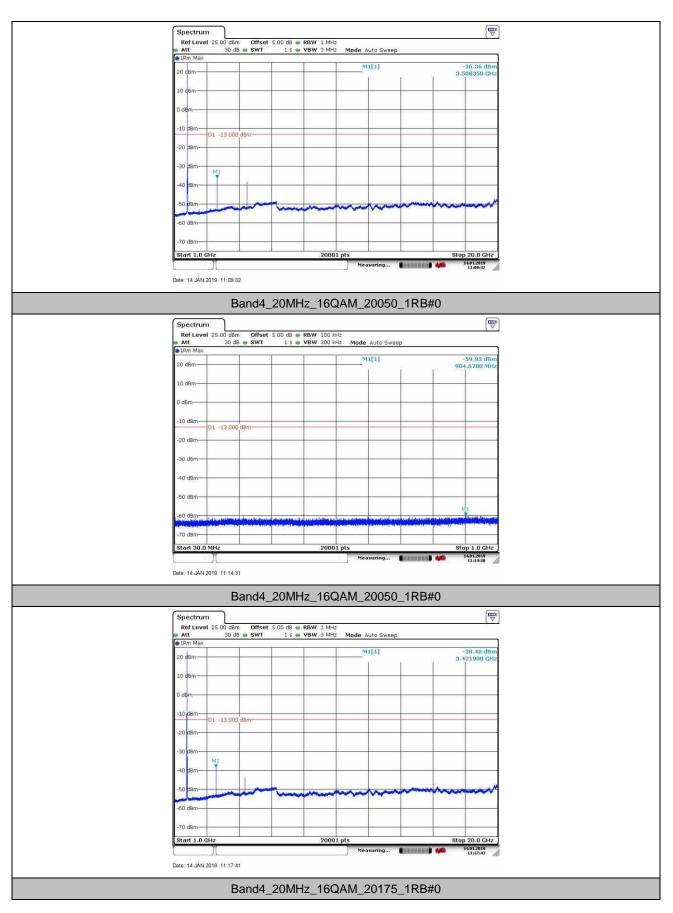


Report No.: HR/2019/1000501 Page: 47 of 54



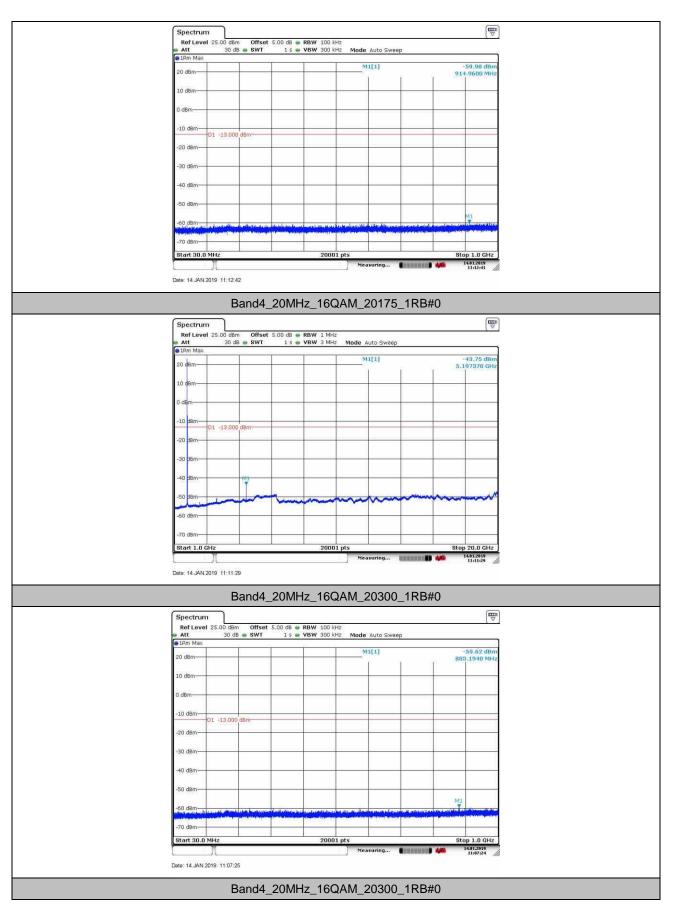


Report No.: HR/2019/1000501 Page: 48 of 54



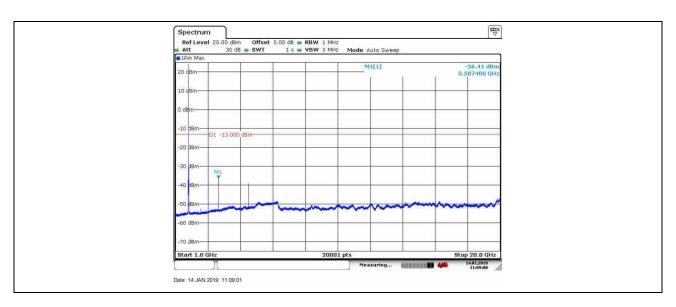


Report No.: HR/2019/1000501 Page: 49 of 54





Report No.: HR/2019/1000501 Page: 50 of 54



Report No.: HR/2019/1000501 Page: 51 of 54

## 7. Field Strength of Spurious Radiation

#### 7.1.Test BAND = LTE Band 4

#### 7.1.1. Test Mode =LTE/TM1 20MHz

#### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.700000	-80.74	-13.00	67.74	Vertical
144.000000	-78.38	-13.00	65.38	Vertical
3422.175000	-51.51	-13.00	38.51	Vertical
5132.975000	-58.75	-13.00	45.75	Vertical
6844.100000	-63.87	-13.00	50.87	Vertical
8555.550000	-54.88	-13.00	41.88	Vertical
62.150000	-77.81	-13.00	64.81	Horizontal
3421.850000	-58.47	-13.00	45.47	Horizontal
5132.975000	-53.88	-13.00	40.88	Horizontal
6844.425000	-56.00	-13.00	43.00	Horizontal
8555.875000	-34.75	-13.00	21.75	Horizontal
10266.675000	-58.12	-13.00	45.12	Horizontal

#### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.900000	-80.34	-13.00	67.34	Vertical
144.000000	-80.02	-13.00	67.02	Vertical
3446.875000	-55.38	-13.00	42.38	Vertical
5170.675000	-59.91	-13.00	46.91	Vertical
6894.475000	-64.03	-13.00	51.03	Vertical
8617.950000	-56.22	-13.00	43.22	Vertical
62.750000	-77.35	-13.00	64.35	Horizontal
144.000000	-81.20	-13.00	68.20	Horizontal
3446.875000	-58.63	-13.00	45.63	Horizontal
5170.675000	-53.48	-13.00	40.48	Horizontal
6894.150000	-55.05	-13.00	42.05	Horizontal
8617.950000	-32.64	-13.00	19.64	Horizontal

Report No.: HR/2019/1000501 Page: 52 of 54

#### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.750000	-80.76	-13.00	67.76	Vertical
144.000000	-79.82	-13.00	66.82	Vertical
3471.900000	-54.61	-13.00	41.61	Vertical
5208.050000	-58.68	-13.00	45.68	Vertical
6944.200000	-63.10	-13.00	50.10	Vertical
8680.350000	-56.27	-13.00	43.27	Vertical
62.600000	-77.05	-13.00	64.05	Horizontal
144.000000	-80.36	-13.00	67.36	Horizontal
3471.900000	-60.86	-13.00	47.86	Horizontal
5208.375000	-52.93	-13.00	39.93	Horizontal
6944.200000	-53.95	-13.00	40.95	Horizontal
8680.350000	-34.85	-13.00	21.85	Horizontal

#### Remark:

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.

Report No.: HR/2019/1000501 Page: 53 of 54

# 8. Frequency Stability

SC

#### 8.1. Frequency Vs Voltage

	Voltage									
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	10.02	0.005827	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	4.83	0.002806	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-3.65	-0.002122	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-0.80	-0.000464	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-12.19	-0.007035	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-14.75	-0.008514	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	9.91	0.005680	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-3.43	-0.001964	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	10.07	0.005769	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	13.92	0.008092	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	-14.55	-0.008460	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-2.18	-0.001268	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-14.80	-0.008542	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-2.86	-0.001654	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	8.19	0.004728	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	6.16	0.003529	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-5.76	-0.003300	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-4.90	-0.002807	±2.5	PASS

### 8.2. Frequency Vs Temperature

	Temperature									
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	-8.81	-0.005121	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-5.52	-0.003212	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-13.87	-0.008064	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-1.39	-0.000809	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	6.37	0.003704	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	5.13	0.002982	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-11.30	-0.006571	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	5.52	0.003210	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-9.21	-0.005314	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-9.61	-0.005549	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	4.33	0.002500	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-1.11	-0.000643	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-1.83	-0.001058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	10.20	0.005886	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	6.30	0.003635	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	14.20	0.008198	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	14.26	0.008173	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	5.37	0.003076	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	6.57	0.003767	±2.5	PASS

Report No.: HR/2019/1000501 Page: 54 of 54

Band4	20MHz	QPSK	20300	100RB#0	NV	10	-7.76	-0.004447	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-3.98	-0.002281	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-1.75	-0.001005	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-1.13	-0.000647	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-10.93	-0.006266	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	6.49	0.003772	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	5.08	0.002952	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	0.03	0.000019	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	14.88	0.008653	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	0.38	0.000219	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	-7.09	-0.004123	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	9.34	0.005432	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	-8.46	-0.004919	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	0.23	0.000133	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-9.18	-0.005301	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	3.69	0.002131	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-10.48	-0.006048	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-1.11	-0.000640	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-14.05	-0.008112	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	11.84	0.006834	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	12.76	0.007368	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-14.34	-0.008215	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	0.74	0.000424	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	3.22	0.001846	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	7.78	0.004460	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	1.66	0.000951	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-13.95	-0.007994	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	5.47	0.003135	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	6.74	0.003864	±2.5	PASS

The End

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