Appendix B

E-UTRA Band 66

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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER 3

1.1. TEST RESULT 3

2. PEAK-TO-AVERAGE RATIO (CCDF) 10

2.1. TEST RESULT 10

2.2. TEST PLOTS 10

3. MODULATION CHARACTERISTICS 14

3.1. TEST MODE = LTE /TM1 20MHZ 14

3.1.1. TEST CHANNEL = MCH 14

3.2. TEST MODE = LTE /TM2 20MHZ 15

3.2.1. TEST CHANNEL = MCH 15

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 16

4.1. TEST RESULT 16

4.2. TEST PLOTS 17

5. BAND EDGE COMPLIANCE 35

5.1. TEST PLOTS 35

6. SPURIOUS EMISSION AT ANTENNA TERMINAL 59

6.1. TEST PLOTS 59

7. FIELD STRENGTH OF SPURIOUS RADIATION 65

7.1. TEST MODE =LTE/TM1 65

7.1.1. TEST CHANNEL = LCH 65

7.1.2. TEST CHANNEL = MCH 65

7.1.3. TEST CHANNEL = HCH 66

8. FREQUENCY STABILITY 67

8.1. FREQUENCY VS VOLTAGE 67

8.2. FREQUENCY VS TEMPERATURE 67

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	19.99	20.69	30.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	20.49	21.19	30.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	20.01	20.71	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	19.91	20.61	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#2	20.30	21.00	30.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	19.82	20.52	30.00	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	19.42	20.12	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	20.30	21.00	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	20.68	21.38	30.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	20.47	21.17	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	20.13	20.83	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#2	20.56	21.26	30.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	20.37	21.07	30.00	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	19.51	20.21	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	20.23	20.93	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	20.34	21.04	30.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	20.24	20.94	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	20.09	20.79	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#2	20.32	21.02	30.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	20.08	20.78	30.00	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	19.31	20.01	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	18.79	19.49	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	18.81	19.51	30.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	19.29	19.99	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	18.69	19.39	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#2	18.66	19.36	30.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	19.24	19.94	30.00	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	18.21	18.91	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	19.28	19.98	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	19.20	19.90	30.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	19.17	19.87	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#0	19.11	19.81	30.00	PASS

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Band66	1.4MHz	16QAM	132322	3RB#2	18.98	19.68	30.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	19.06	19.76	30.00	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	18.19	18.89	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	19.11	19.81	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	19.21	19.91	30.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	19.01	19.71	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	18.98	19.68	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#2	18.96	19.66	30.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	18.86	19.56	30.00	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	18.05	18.75	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#0	19.97	20.67	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#7	20.47	21.17	30.00	PASS
Band66	3MHz	QPSK	131987	1RB#14	20.06	20.76	30.00	PASS
Band66	3MHz	QPSK	131987	15RB#0	19.30	20.00	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#0	19.39	20.09	30.00	PASS
Band66	3MHz	QPSK	131987	8RB#7	19.38	20.08	30.00	PASS
Band66	3MHz	QPSK	131987	15RB#0	19.36	20.06	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#0	20.35	21.05	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#7	20.63	21.33	30.00	PASS
Band66	3MHz	QPSK	132322	1RB#14	20.54	21.24	30.00	PASS
Band66	3MHz	QPSK	132322	15RB#0	19.46	20.16	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#0	19.17	19.87	30.00	PASS
Band66	3MHz	QPSK	132322	8RB#7	19.35	20.05	30.00	PASS
Band66	3MHz	QPSK	132322	15RB#0	19.43	20.13	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#0	20.19	20.89	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#7	20.40	21.10	30.00	PASS
Band66	3MHz	QPSK	132657	1RB#14	20.29	20.99	30.00	PASS
Band66	3MHz	QPSK	132657	15RB#0	19.31	20.01	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#0	19.20	19.90	30.00	PASS
Band66	3MHz	QPSK	132657	8RB#7	19.02	19.72	30.00	PASS
Band66	3MHz	QPSK	132657	15RB#0	19.30	20.00	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#0	18.80	19.50	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#7	18.79	19.49	30.00	PASS
Band66	3MHz	16QAM	131987	1RB#14	19.34	20.04	30.00	PASS
Band66	3MHz	16QAM	131987	15RB#0	18.31	19.01	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#0	18.36	19.06	30.00	PASS
Band66	3MHz	16QAM	131987	8RB#7	18.14	18.84	30.00	PASS
Band66	3MHz	16QAM	131987	15RB#0	18.13	18.83	30.00	PASS

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Band66	3MHz	16QAM	132322	1RB#0	19.31	20.01	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#7	19.15	19.85	30.00	PASS
Band66	3MHz	16QAM	132322	1RB#14	19.22	19.92	30.00	PASS
Band66	3MHz	16QAM	132322	15RB#0	18.28	18.98	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#0	18.32	19.02	30.00	PASS
Band66	3MHz	16QAM	132322	8RB#7	18.08	18.78	30.00	PASS
Band66	3MHz	16QAM	132322	15RB#0	18.20	18.90	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#0	19.16	19.86	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#7	19.16	19.86	30.00	PASS
Band66	3MHz	16QAM	132657	1RB#14	19.00	19.70	30.00	PASS
Band66	3MHz	16QAM	132657	15RB#0	18.35	19.05	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#0	18.19	18.89	30.00	PASS
Band66	3MHz	16QAM	132657	8RB#7	17.96	18.66	30.00	PASS
Band66	3MHz	16QAM	132657	15RB#0	18.04	18.74	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#0	20.02	20.72	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#13	20.41	21.11	30.00	PASS
Band66	5MHz	QPSK	131997	1RB#24	19.97	20.67	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#0	19.33	20.03	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#6	19.45	20.15	30.00	PASS
Band66	5MHz	QPSK	131997	12RB#13	19.36	20.06	30.00	PASS
Band66	5MHz	QPSK	131997	25RB#0	19.37	20.07	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#0	20.32	21.02	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#13	20.68	21.38	30.00	PASS
Band66	5MHz	QPSK	132322	1RB#24	20.49	21.19	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#0	19.39	20.09	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#6	19.24	19.94	30.00	PASS
Band66	5MHz	QPSK	132322	12RB#13	19.36	20.06	30.00	PASS
Band66	5MHz	QPSK	132322	25RB#0	19.50	20.20	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#0	20.26	20.96	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#13	20.42	21.12	30.00	PASS
Band66	5MHz	QPSK	132647	1RB#24	20.27	20.97	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#0	19.32	20.02	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#6	19.13	19.83	30.00	PASS
Band66	5MHz	QPSK	132647	12RB#13	19.03	19.73	30.00	PASS
Band66	5MHz	QPSK	132647	25RB#0	19.24	19.94	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#0	18.77	19.47	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#13	18.78	19.48	30.00	PASS
Band66	5MHz	16QAM	131997	1RB#24	19.32	20.02	30.00	PASS

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Band66	5MHz	16QAM	131997	12RB#0	18.22	18.92	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#6	18.36	19.06	30.00	PASS
Band66	5MHz	16QAM	131997	12RB#13	18.10	18.80	30.00	PASS
Band66	5MHz	16QAM	131997	25RB#0	18.14	18.84	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#0	19.25	19.95	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#13	19.21	19.91	30.00	PASS
Band66	5MHz	16QAM	132322	1RB#24	19.21	19.91	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#0	18.27	18.97	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#6	18.34	19.04	30.00	PASS
Band66	5MHz	16QAM	132322	12RB#13	18.10	18.80	30.00	PASS
Band66	5MHz	16QAM	132322	25RB#0	18.22	18.92	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#0	19.17	19.87	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#13	19.18	19.88	30.00	PASS
Band66	5MHz	16QAM	132647	1RB#24	19.05	19.75	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#0	18.30	19.00	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#6	18.15	18.85	30.00	PASS
Band66	5MHz	16QAM	132647	12RB#13	17.90	18.60	30.00	PASS
Band66	5MHz	16QAM	132647	25RB#0	18.02	18.72	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#0	20.02	20.72	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#25	20.49	21.19	30.00	PASS
Band66	10MHz	QPSK	132022	1RB#49	20.00	20.70	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#0	19.32	20.02	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#13	19.40	20.10	30.00	PASS
Band66	10MHz	QPSK	132022	25RB#25	19.37	20.07	30.00	PASS
Band66	10MHz	QPSK	132022	50RB#0	19.35	20.05	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#0	20.27	20.97	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#25	20.61	21.31	30.00	PASS
Band66	10MHz	QPSK	132322	1RB#49	20.50	21.20	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#0	19.42	20.12	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#13	19.20	19.90	30.00	PASS
Band66	10MHz	QPSK	132322	25RB#25	19.39	20.09	30.00	PASS
Band66	10MHz	QPSK	132322	50RB#0	19.52	20.22	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#0	20.25	20.95	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#25	20.43	21.13	30.00	PASS
Band66	10MHz	QPSK	132622	1RB#49	20.32	21.02	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#0	19.26	19.96	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#13	19.15	19.85	30.00	PASS
Band66	10MHz	QPSK	132622	25RB#25	19.08	19.78	30.00	PASS

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Band66	10MHz	QPSK	132622	50RB#0	19.32	20.02	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#0	18.80	19.50	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#25	18.78	19.48	30.00	PASS
Band66	10MHz	16QAM	132022	1RB#49	19.32	20.02	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#0	18.23	18.93	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#13	18.45	19.15	30.00	PASS
Band66	10MHz	16QAM	132022	25RB#25	18.10	18.80	30.00	PASS
Band66	10MHz	16QAM	132022	50RB#0	18.12	18.82	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#0	19.32	20.02	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#25	19.15	19.85	30.00	PASS
Band66	10MHz	16QAM	132322	1RB#49	19.22	19.92	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#0	18.27	18.97	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#13	18.34	19.04	30.00	PASS
Band66	10MHz	16QAM	132322	25RB#25	18.08	18.78	30.00	PASS
Band66	10MHz	16QAM	132322	50RB#0	18.15	18.85	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#0	19.20	19.90	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#25	19.19	19.89	30.00	PASS
Band66	10MHz	16QAM	132622	1RB#49	19.02	19.72	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#0	18.32	19.02	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#13	18.20	18.90	30.00	PASS
Band66	10MHz	16QAM	132622	25RB#25	17.90	18.60	30.00	PASS
Band66	10MHz	16QAM	132622	50RB#0	18.03	18.73	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#0	20.00	20.70	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#38	20.39	21.09	30.00	PASS
Band66	15MHz	QPSK	132047	1RB#74	20.02	20.72	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#0	19.28	19.98	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#18	19.41	20.11	30.00	PASS
Band66	15MHz	QPSK	132047	36RB#39	19.30	20.00	30.00	PASS
Band66	15MHz	QPSK	132047	75RB#0	19.44	20.14	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#0	20.30	21.00	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#38	20.66	21.36	30.00	PASS
Band66	15MHz	QPSK	132322	1RB#74	20.46	21.16	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#0	19.44	20.14	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#18	19.24	19.94	30.00	PASS
Band66	15MHz	QPSK	132322	36RB#39	19.32	20.02	30.00	PASS
Band66	15MHz	QPSK	132322	75RB#0	19.49	20.19	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#0	20.18	20.88	30.00	PASS
Band66	15MHz	QPSK	132597	1RB#38	20.35	21.05	30.00	PASS

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Band66	15MHz	QPSK	132597	1RB#74	20.27	20.97	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#0	19.32	20.02	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#18	19.16	19.86	30.00	PASS
Band66	15MHz	QPSK	132597	36RB#39	19.04	19.74	30.00	PASS
Band66	15MHz	QPSK	132597	75RB#0	19.30	20.00	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#0	18.80	19.50	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#38	18.76	19.46	30.00	PASS
Band66	15MHz	16QAM	132047	1RB#74	19.30	20.00	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#0	18.32	19.02	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#18	18.36	19.06	30.00	PASS
Band66	15MHz	16QAM	132047	36RB#39	18.07	18.77	30.00	PASS
Band66	15MHz	16QAM	132047	75RB#0	18.15	18.85	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#0	19.28	19.98	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#38	19.21	19.91	30.00	PASS
Band66	15MHz	16QAM	132322	1RB#74	19.16	19.86	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#0	18.24	18.94	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#18	18.31	19.01	30.00	PASS
Band66	15MHz	16QAM	132322	36RB#39	18.06	18.76	30.00	PASS
Band66	15MHz	16QAM	132322	75RB#0	18.21	18.91	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#0	19.11	19.81	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#38	19.12	19.82	30.00	PASS
Band66	15MHz	16QAM	132597	1RB#74	19.09	19.79	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#0	18.28	18.98	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#18	18.15	18.85	30.00	PASS
Band66	15MHz	16QAM	132597	36RB#39	17.97	18.67	30.00	PASS
Band66	15MHz	16QAM	132597	75RB#0	18.10	18.80	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#0	20.14	20.84	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#50	20.59	21.29	30.00	PASS
Band66	20MHz	QPSK	132072	1RB#99	20.17	20.87	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#0	19.45	20.15	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#25	19.58	20.28	30.00	PASS
Band66	20MHz	QPSK	132072	50RB#50	19.50	20.20	30.00	PASS
Band66	20MHz	QPSK	132072	100RB#0	19.54	20.24	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#0	20.47	21.17	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#50	20.80	21.50	30.00	PASS
Band66	20MHz	QPSK	132322	1RB#99	20.65	21.35	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#0	19.59	20.29	30.00	PASS
Band66	20MHz	QPSK	132322	50RB#25	19.36	20.06	30.00	PASS

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Band66	20MHz	QPSK	132322	50RB#50	19.49	20.19	30.00	PASS
Band66	20MHz	QPSK	132322	100RB#0	19.62	20.32	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#0	20.38	21.08	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#50	20.53	21.23	30.00	PASS
Band66	20MHz	QPSK	132572	1RB#99	20.43	21.13	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#0	19.45	20.15	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#25	19.33	20.03	30.00	PASS
Band66	20MHz	QPSK	132572	50RB#50	19.21	19.91	30.00	PASS
Band66	20MHz	QPSK	132572	100RB#0	19.42	20.12	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#0	18.97	19.67	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#50	18.96	19.66	30.00	PASS
Band66	20MHz	16QAM	132072	1RB#99	19.46	20.16	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#0	18.42	19.12	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#25	18.56	19.26	30.00	PASS
Band66	20MHz	16QAM	132072	50RB#50	18.27	18.97	30.00	PASS
Band66	20MHz	16QAM	132072	100RB#0	18.32	19.02	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#0	19.45	20.15	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#50	19.35	20.05	30.00	PASS
Band66	20MHz	16QAM	132322	1RB#99	19.36	20.06	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#0	18.39	19.09	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#25	18.45	19.15	30.00	PASS
Band66	20MHz	16QAM	132322	50RB#50	18.21	18.91	30.00	PASS
Band66	20MHz	16QAM	132322	100RB#0	18.35	19.05	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#0	19.31	20.01	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#50	19.32	20.02	30.00	PASS
Band66	20MHz	16QAM	132572	1RB#99	19.20	19.90	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#0	18.45	19.15	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#25	18.32	19.02	30.00	PASS
Band66	20MHz	16QAM	132572	50RB#50	18.09	18.79	30.00	PASS
Band66	20MHz	16QAM	132572	100RB#0	18.21	18.91	30.00	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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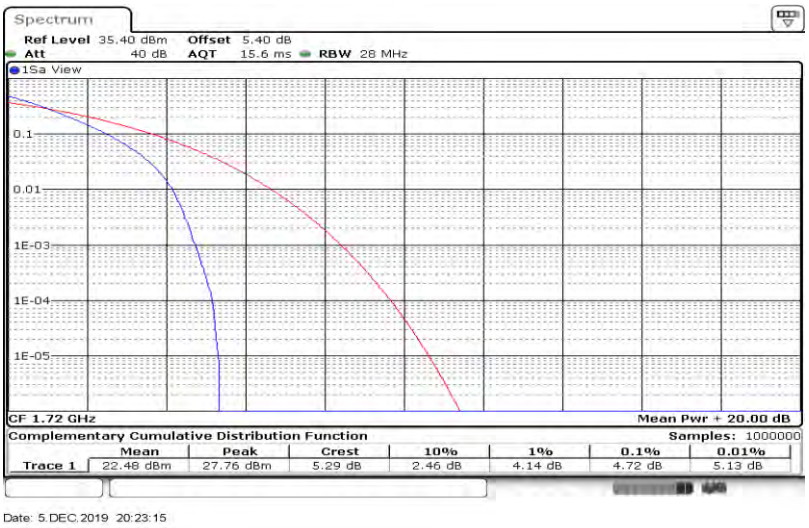
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	4.72	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	4.96	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	4.84	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	5.62	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	5.86	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	5.77	13	PASS

2.2. Test Plots

Band66-20MHz-QPSK-132072-100RB#0



Band66-20MHz-QPSK-132322-100RB#0

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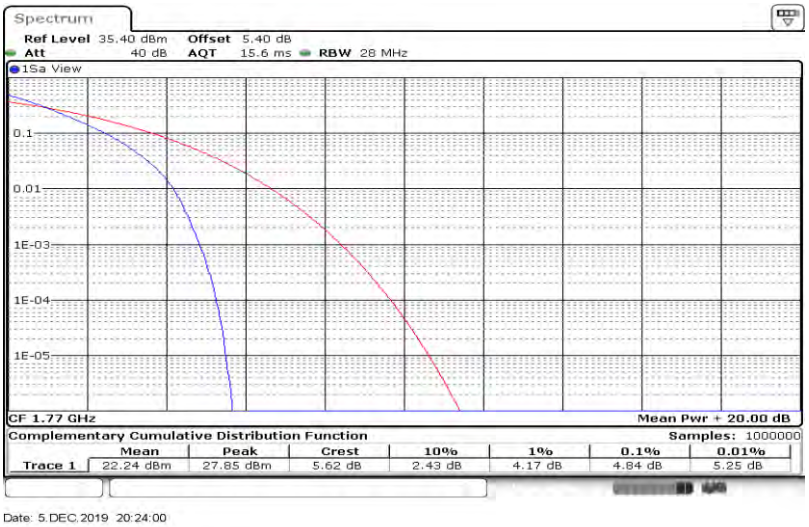

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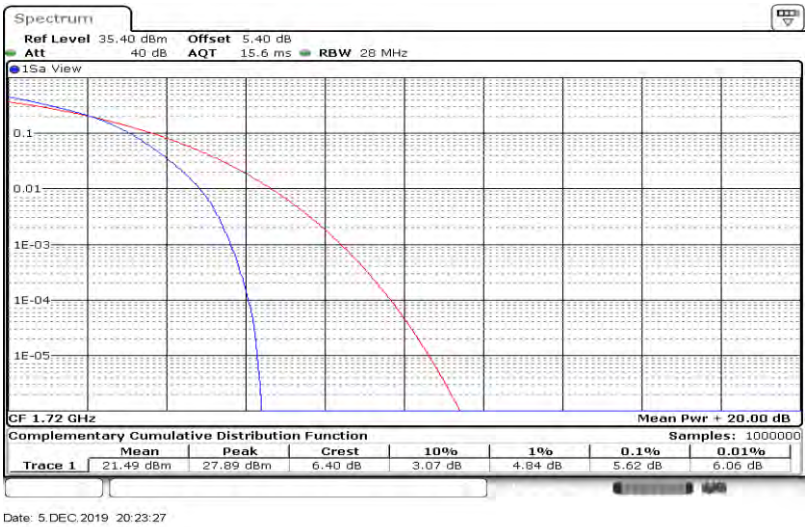

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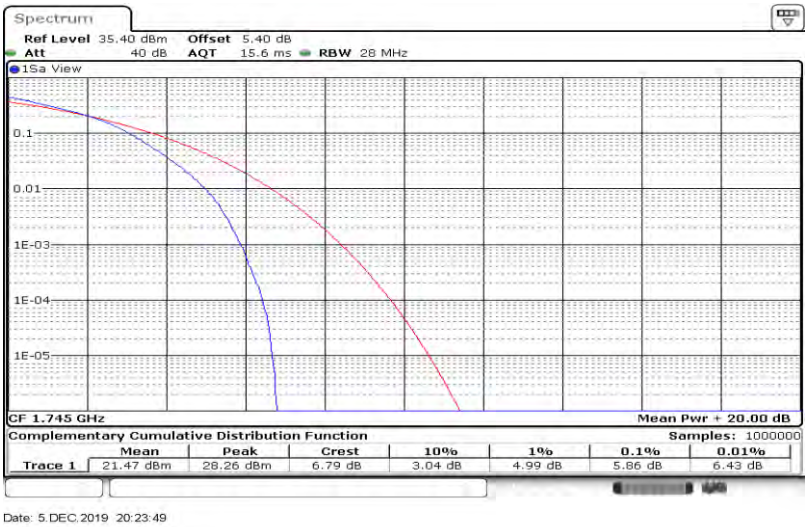

Band66-20MHz-16QAM-132572-100RB#0

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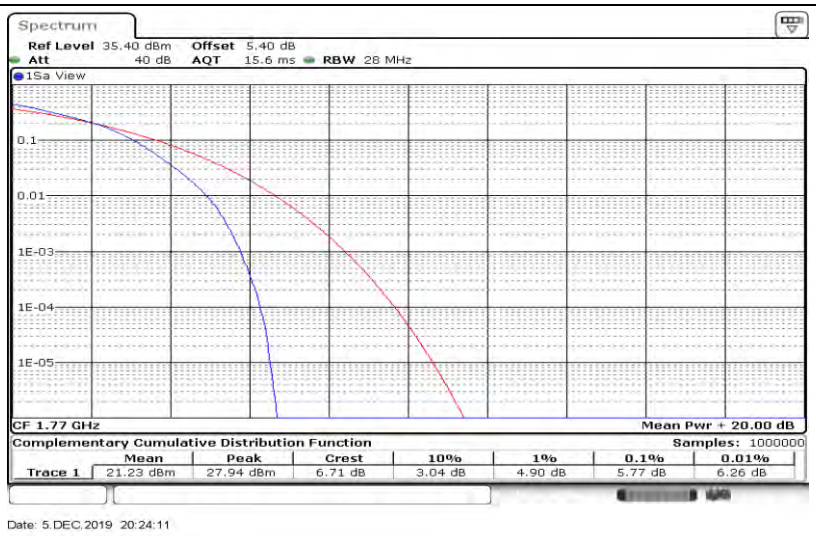

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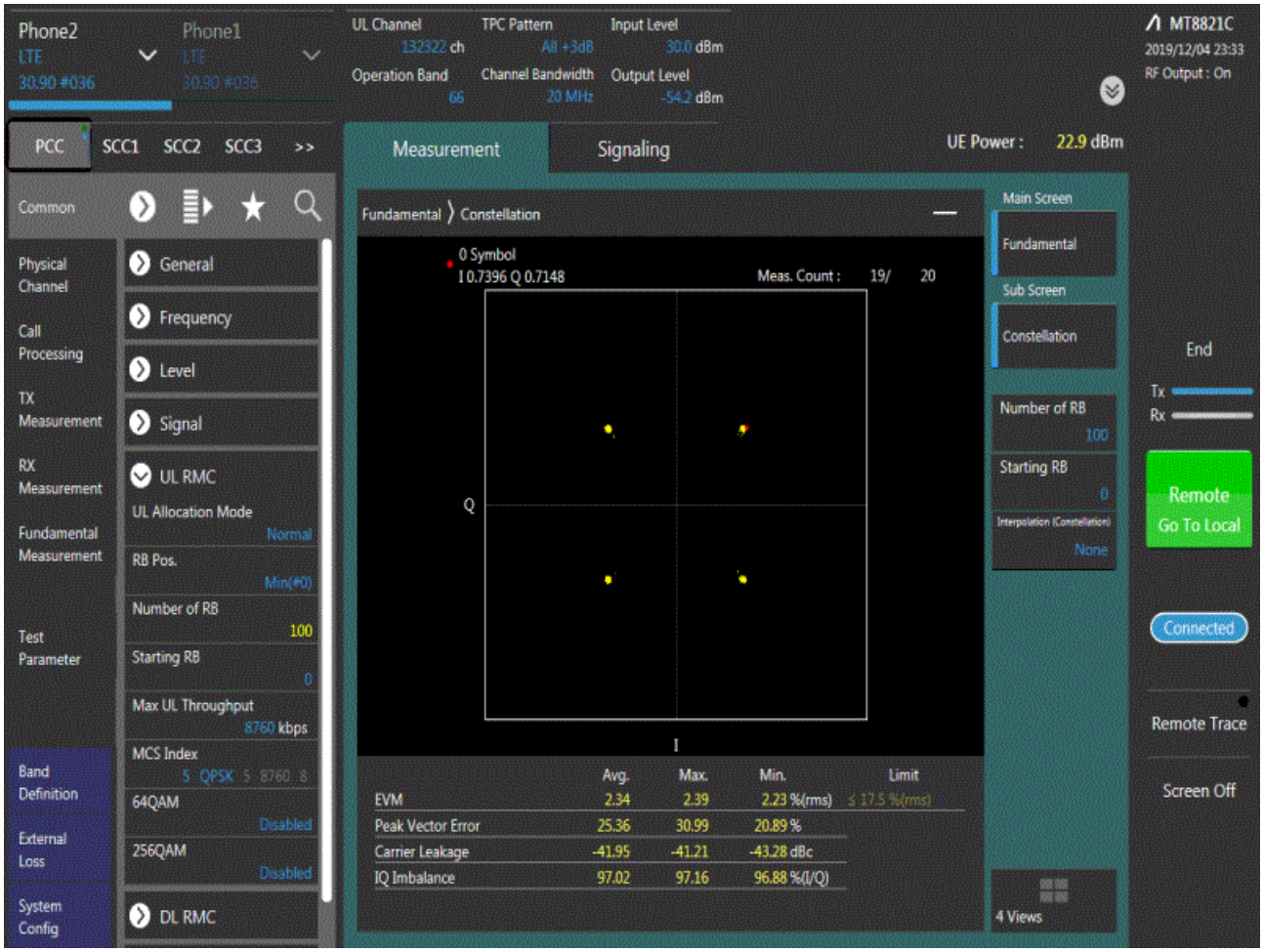
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



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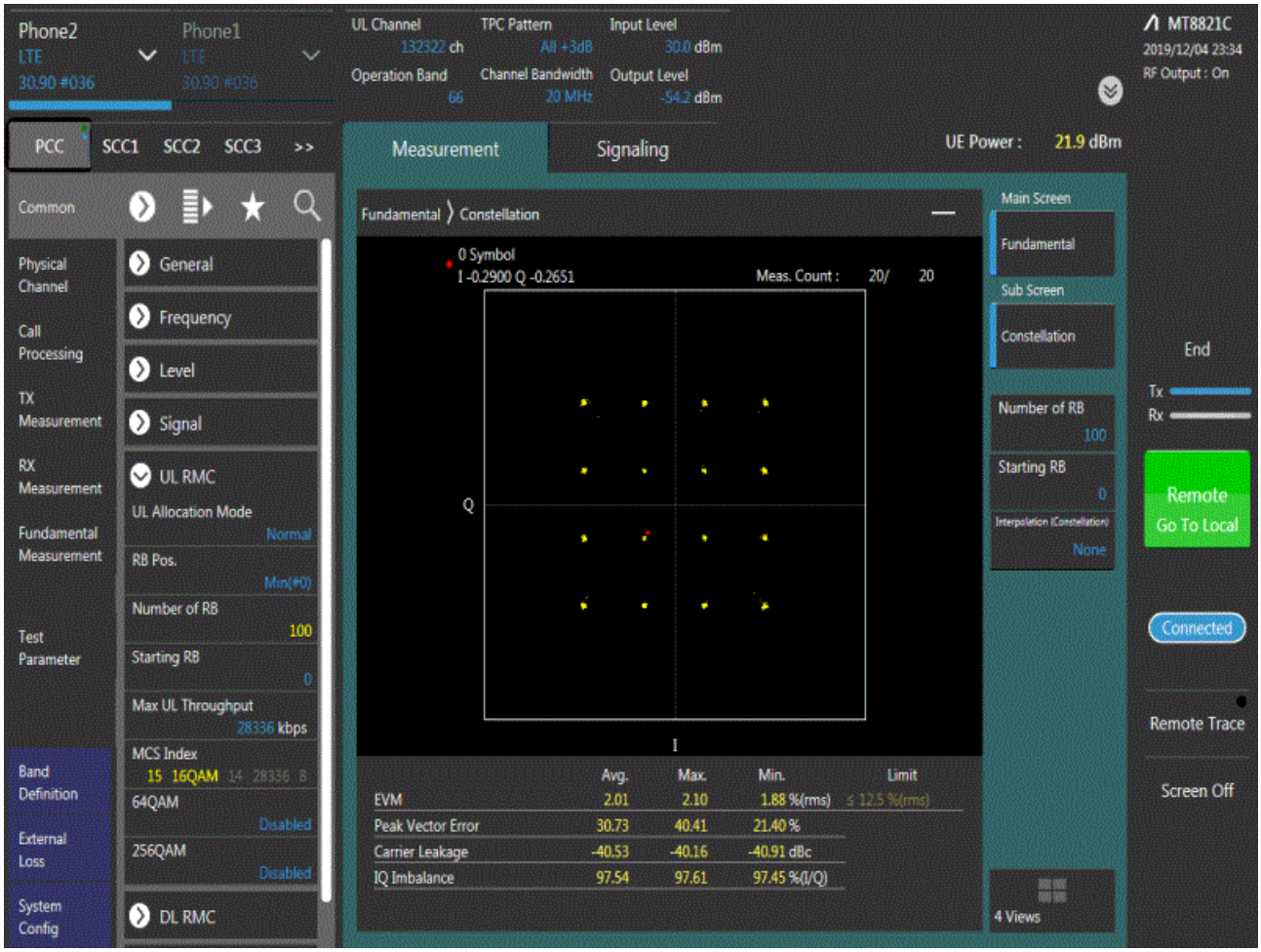
3.2. Test Mode = LTE /TM2 20MHz

3.2.1.Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.091	1.269	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.094	1.281	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.094	1.293	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.091	1.278	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.091	1.281	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.091	1.281	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.697	2.994	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.691	3.006	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.697	2.994	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.685	2.970	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.685	2.964	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.685	2.976	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.476	4.920	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.476	4.930	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.476	4.930	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.486	4.970	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.496	4.960	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.496	4.960	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.931	9.740	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.911	9.720	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.911	9.660	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.931	9.740	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.911	9.760	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.911	9.740	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.427	14.730	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.427	14.790	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.427	14.760	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.397	14.700	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.427	14.580	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.427	14.730	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.822	19.360	PASS

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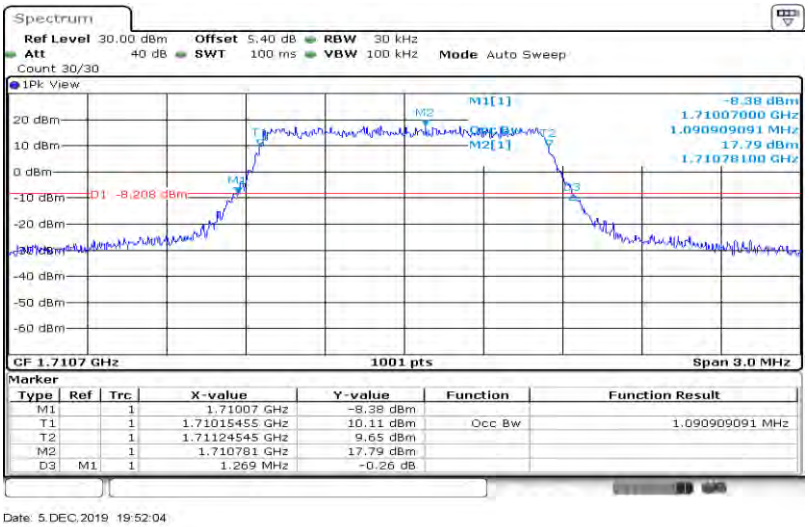
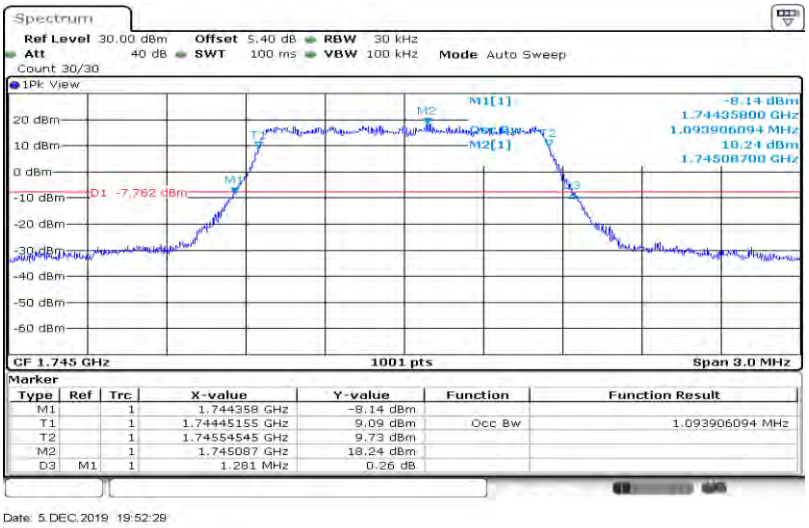
Band66	20MHz	QPSK	132322	100RB#0	17.862	19.400	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.822	19.400	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.822	19.400	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.862	19.480	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.862	19.360	PASS

4.2. Test Plots

Band66-1.4MHz-QPSK-131979-6RB#0-1.091



Band66-1.4MHz-QPSK-132322-6RB#0-1.094



Band66-1.4MHz-QPSK-132665-6RB#0-1.094

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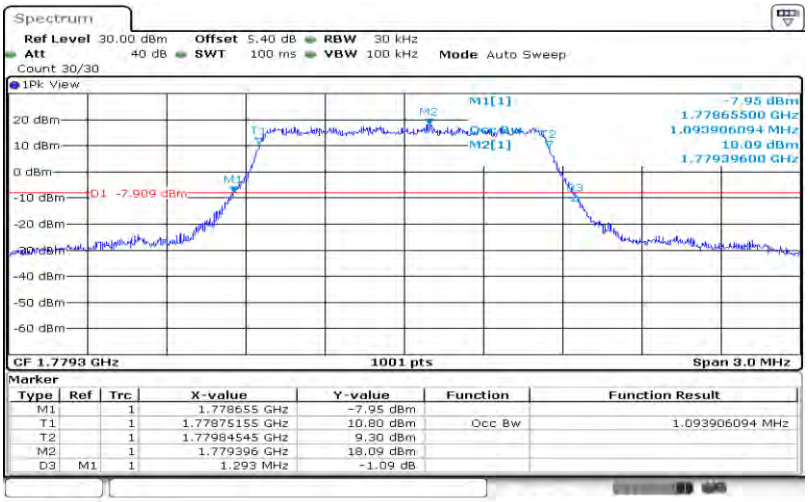
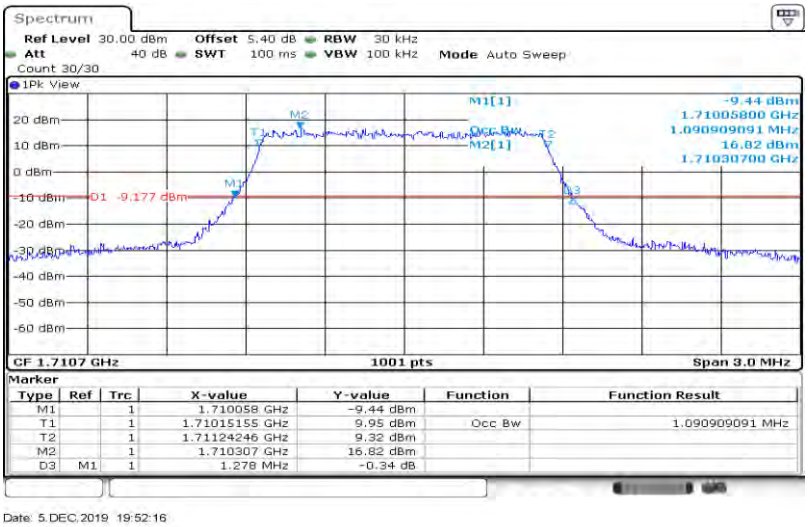


Band66-1.4MHz-16QAM-131979-6RB#0-1.091



Band66-1.4MHz-16QAM-132322-6RB#0-1.091

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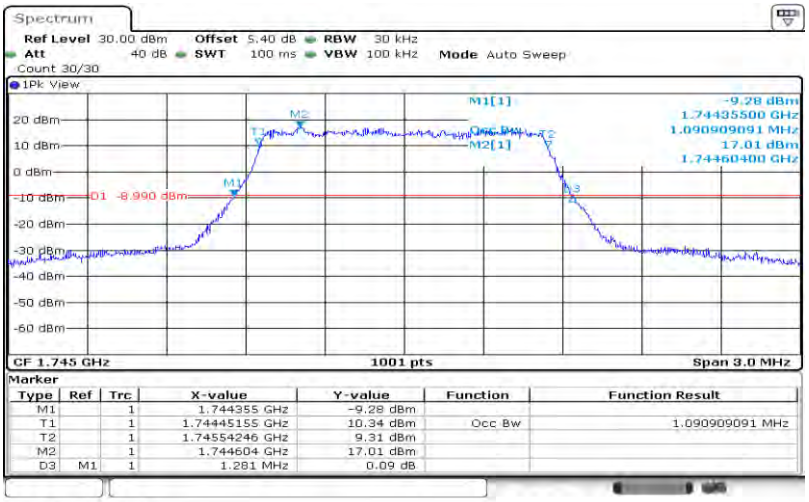
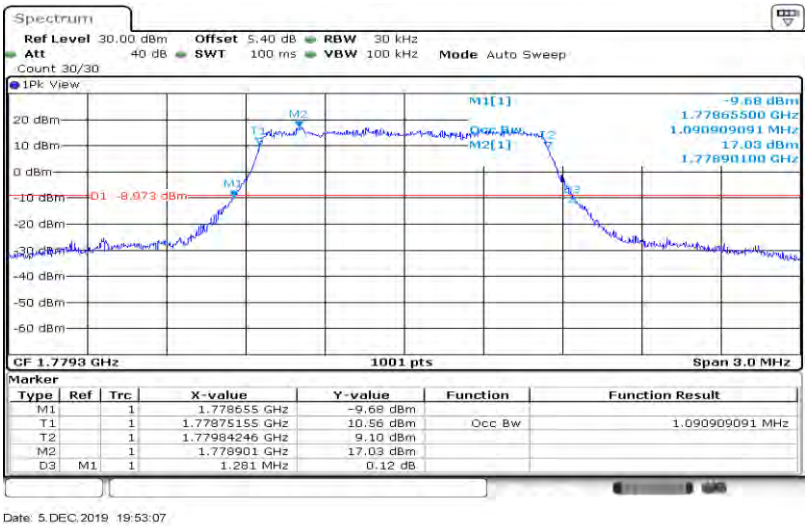


Band66-1.4MHz-16QAM-132665-6RB#0-1.091



Band66-3MHz-QPSK-131987-15RB#0-2.697

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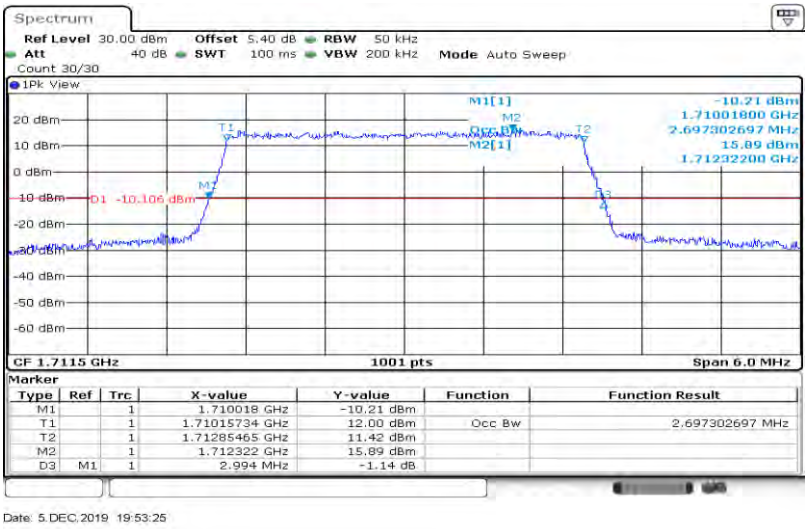
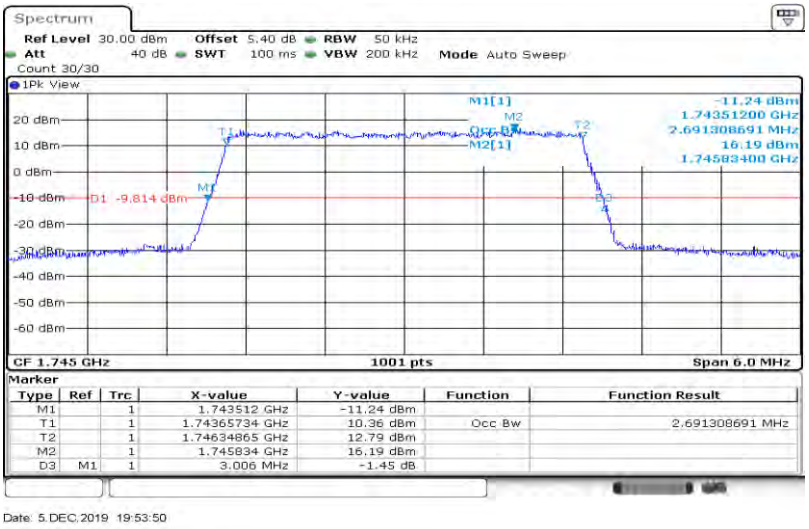


Band66-3MHz-QPSK-132322-15RB#0-2.691



Band66-3MHz-QPSK-132657-15RB#0-2.697

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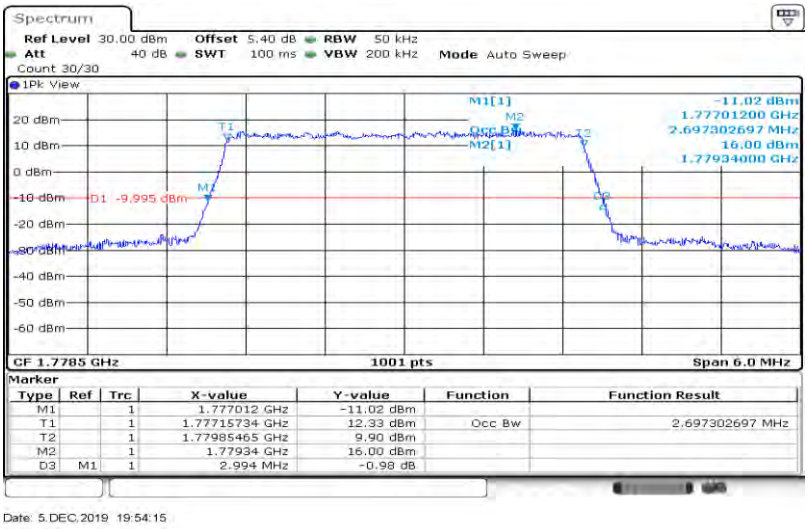
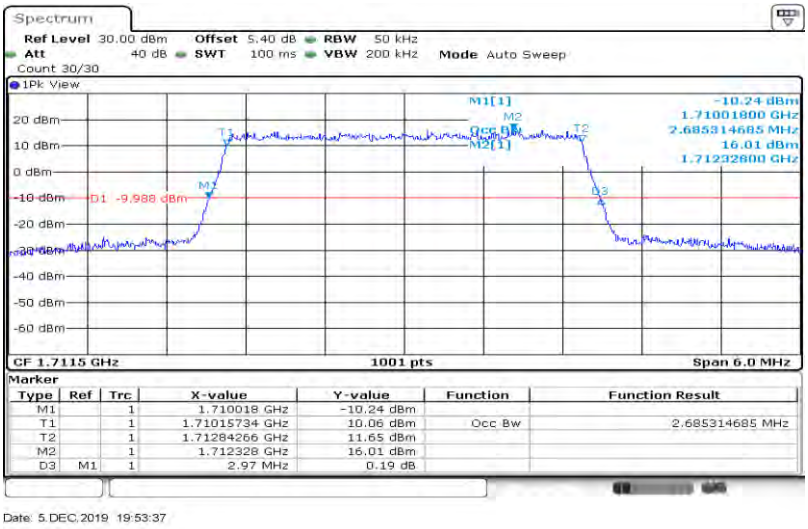


Band66-3MHz-16QAM-131987-15RB#0-2.685



Band66-3MHz-16QAM-132322-15RB#0-2.685

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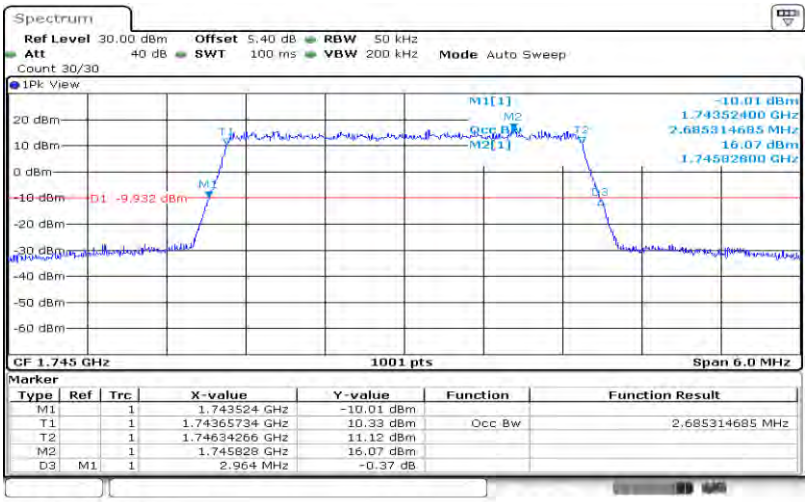
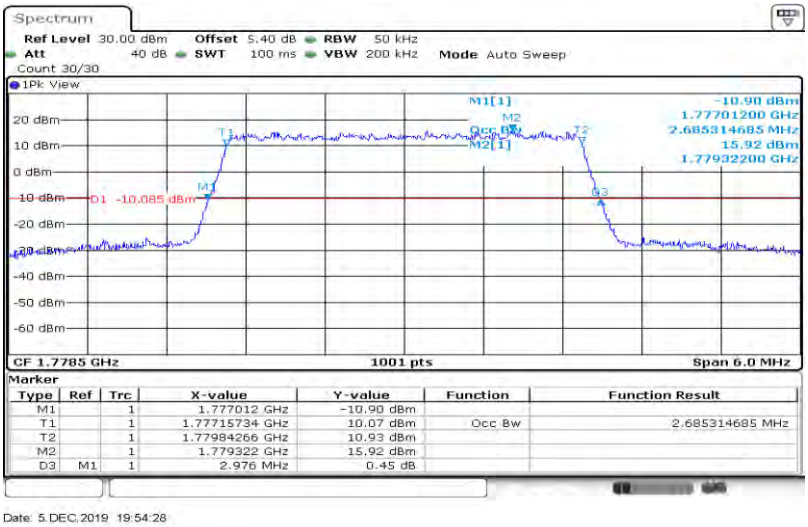


Band66-3MHz-16QAM-132657-15RB#0-2.685



Band66-5MHz-QPSK-131997-25RB#0-4.476

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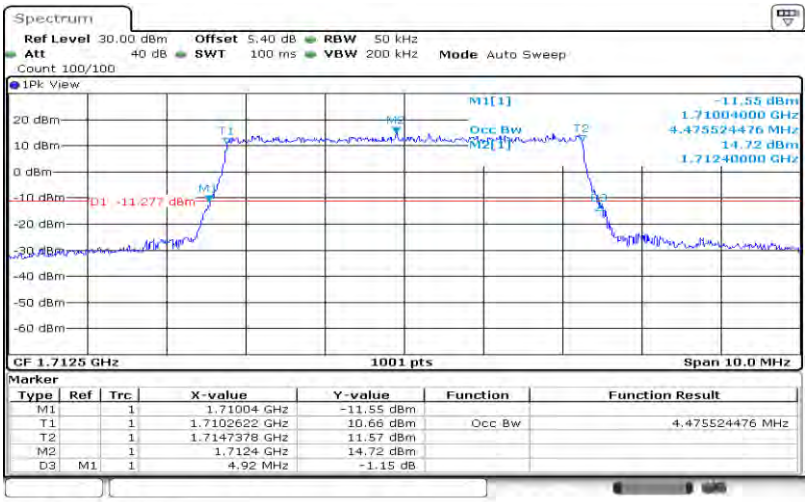

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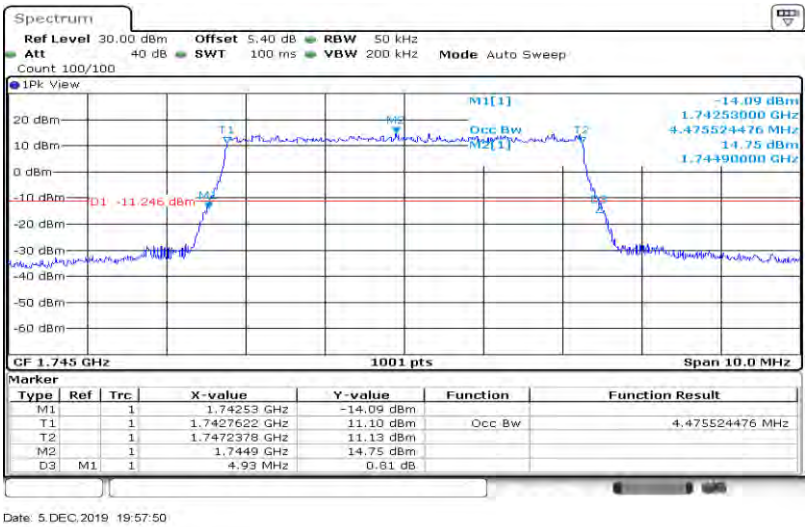

Band66-5MHz-QPSK-132647-25RB#0-4.476

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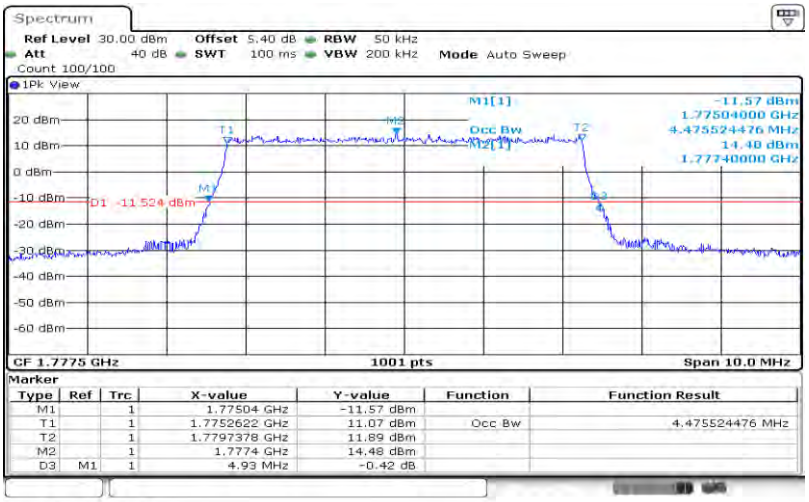

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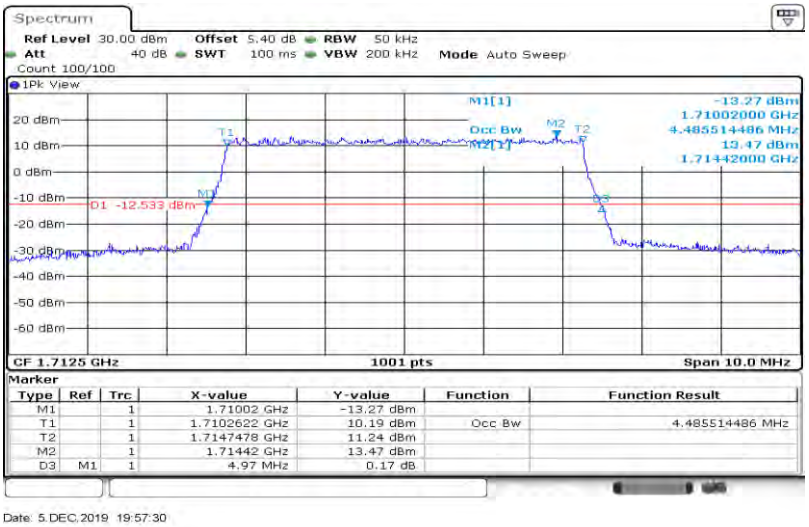

Band66-5MHz-16QAM-132322-25RB#0-4.496

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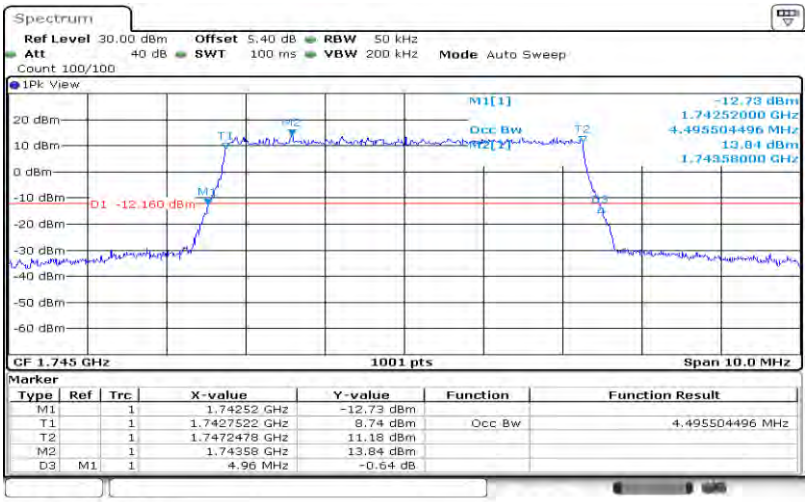

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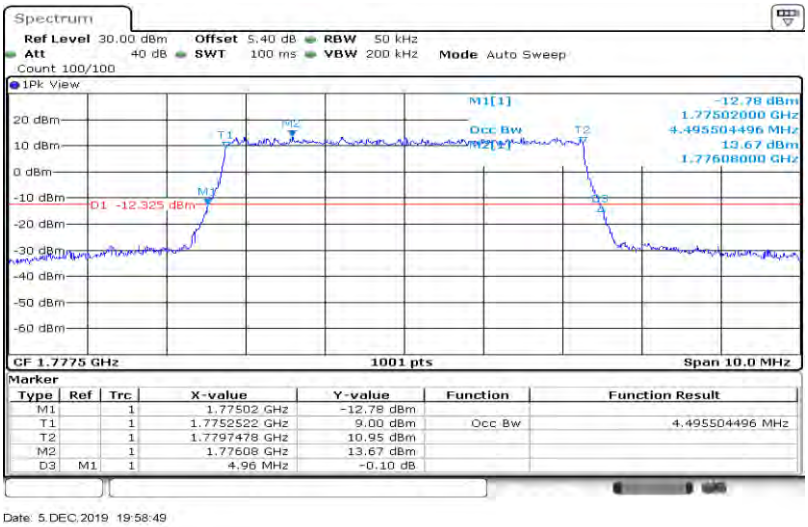

Band66-10MHz-QPSK-132022-50RB#0-8.931

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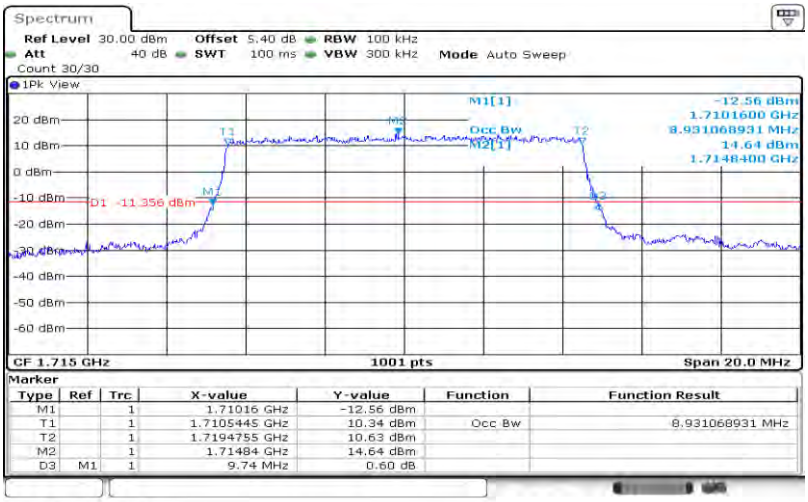
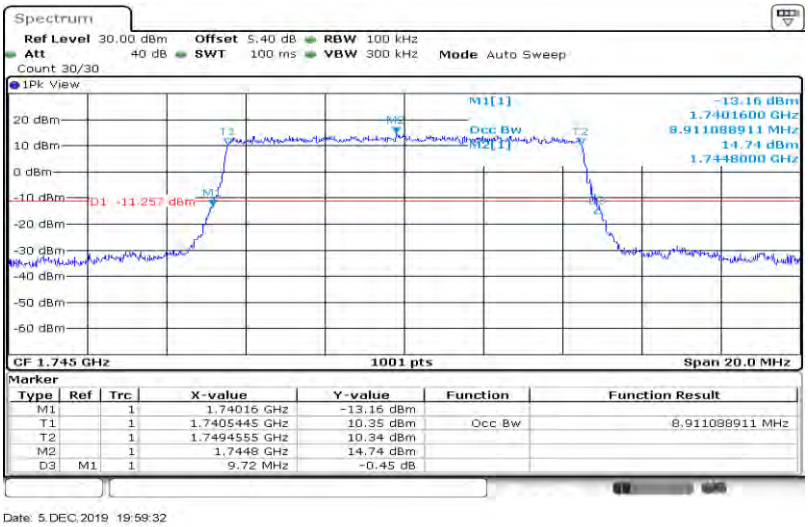


Band66-10MHz-QPSK-132322-50RB#0-8.911



Band66-10MHz-QPSK-132622-50RB#0-8.911

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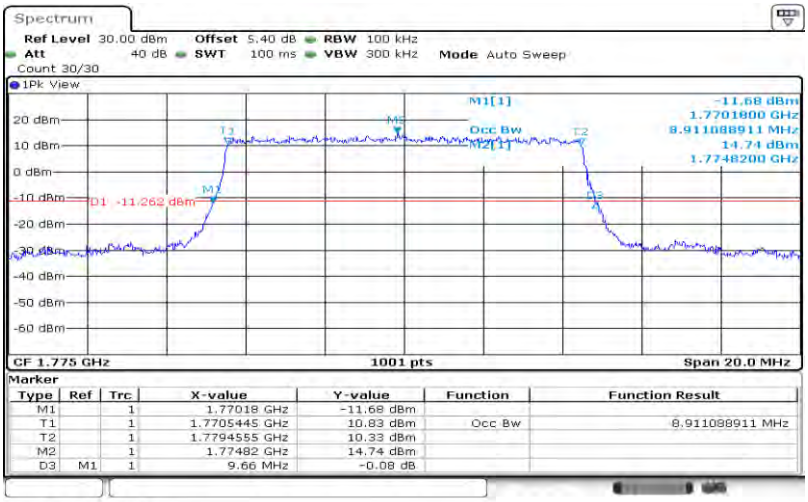

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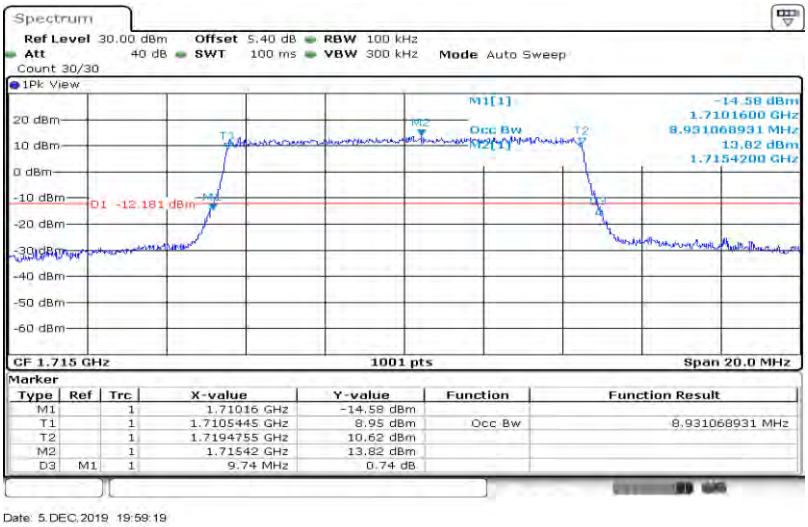

Band66-10MHz-16QAM-132322-50RB#0-8.911

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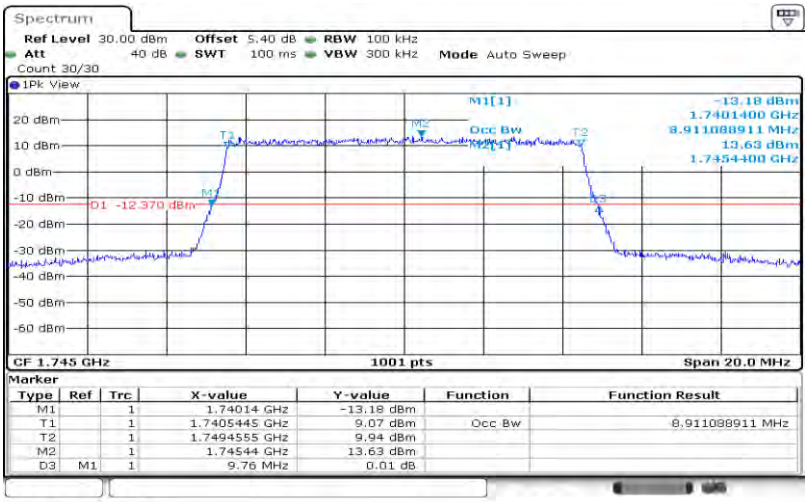

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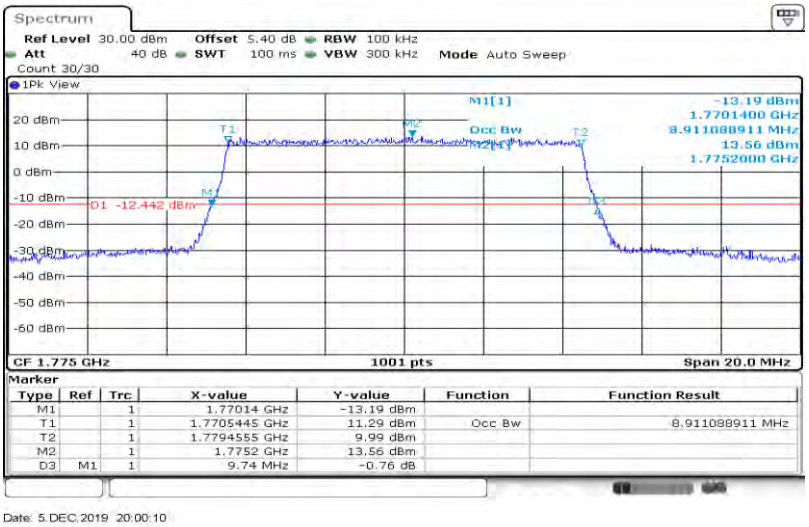

Band66-15MHz-QPSK-132047-75RB#0-13.427

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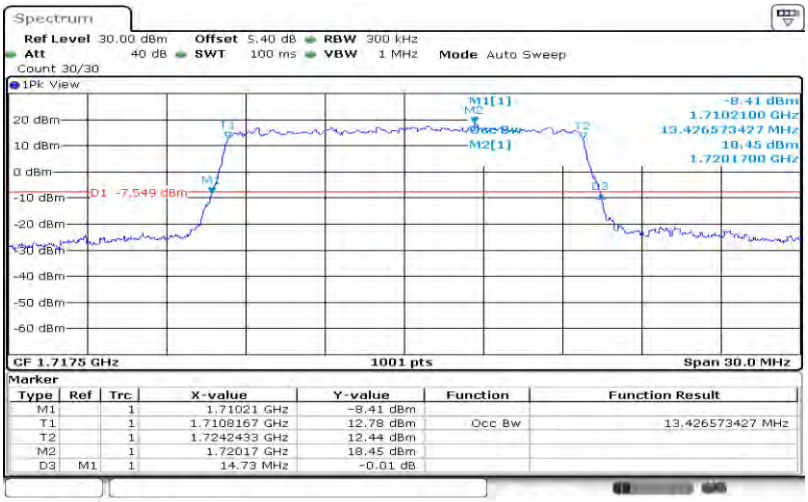

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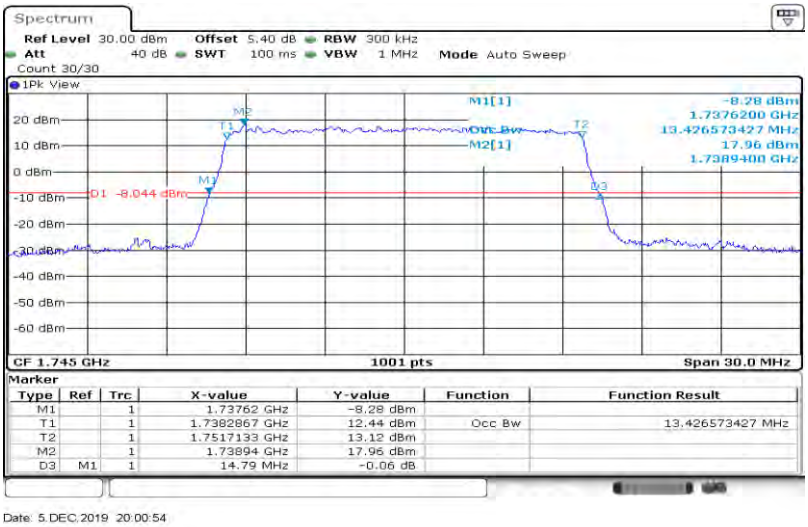

Band66-15MHz-QPSK-132597-75RB#0-13.427

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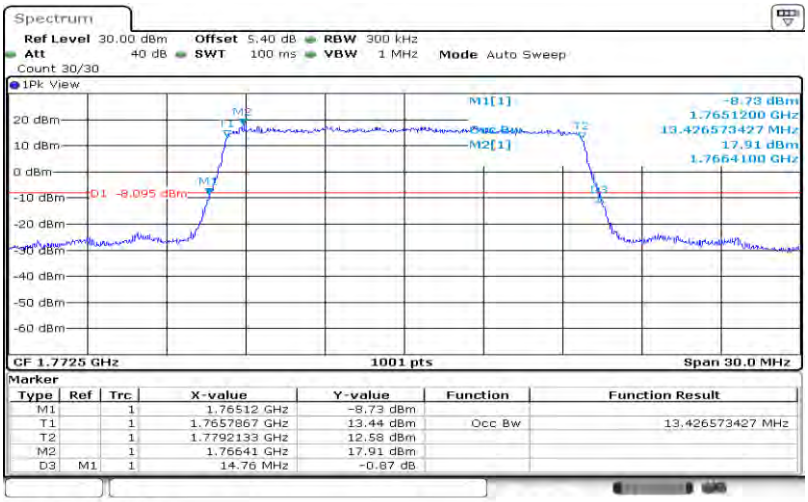

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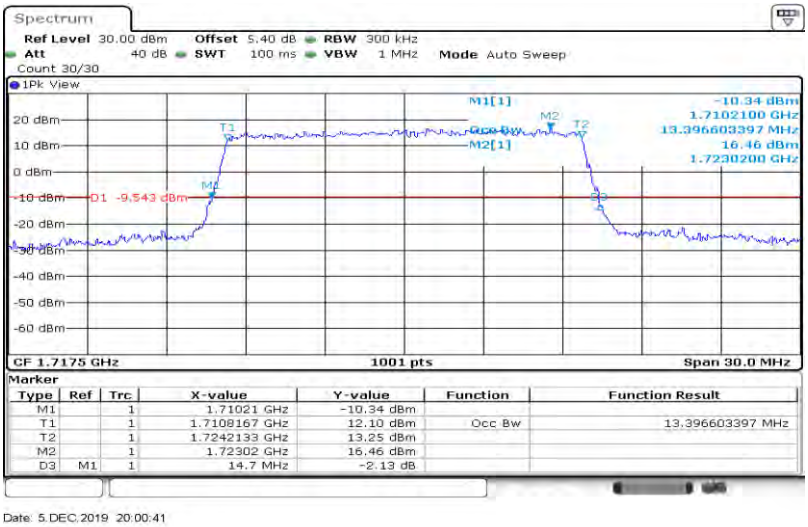

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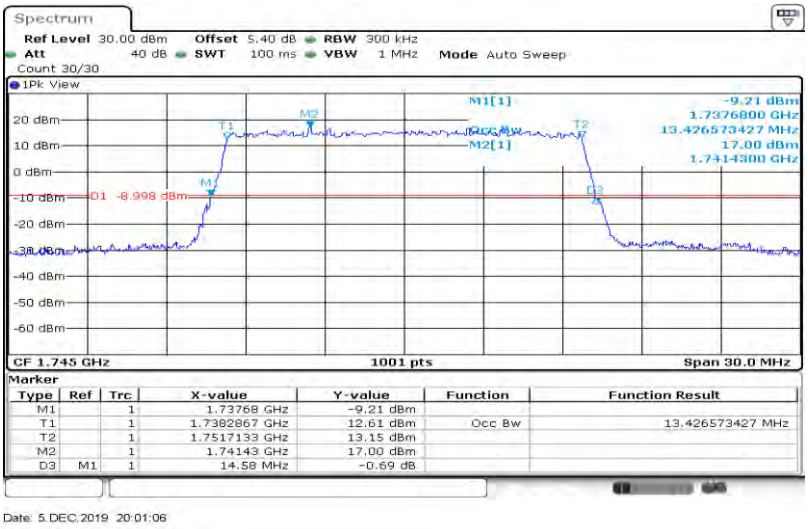

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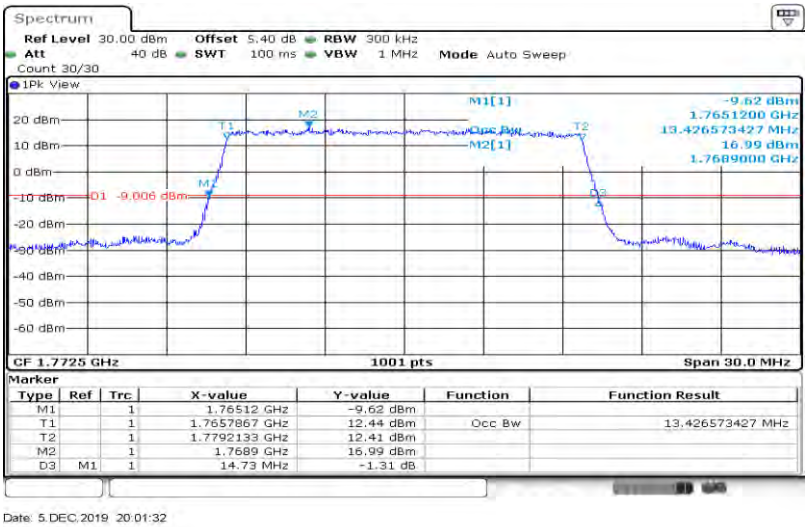

Band66-20MHz-QPSK-132072-100RB#0-17.822

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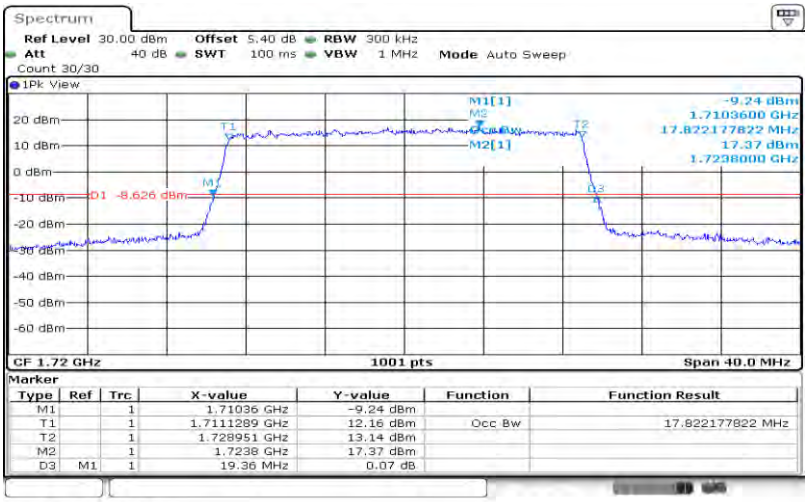

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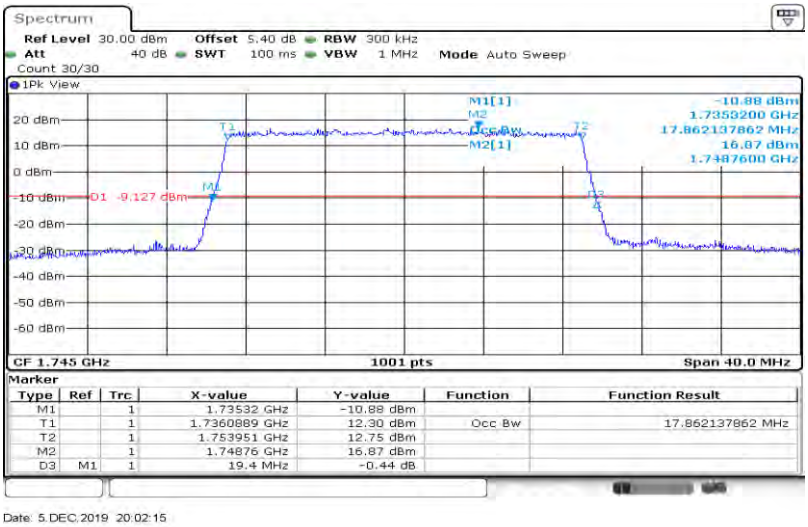

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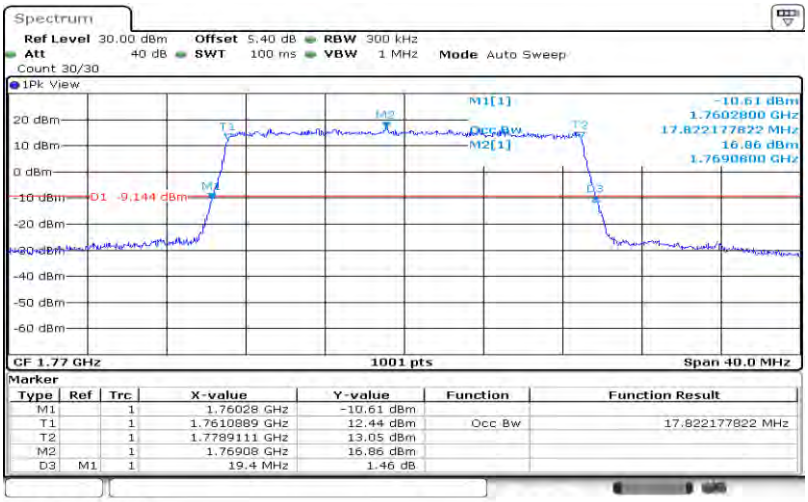

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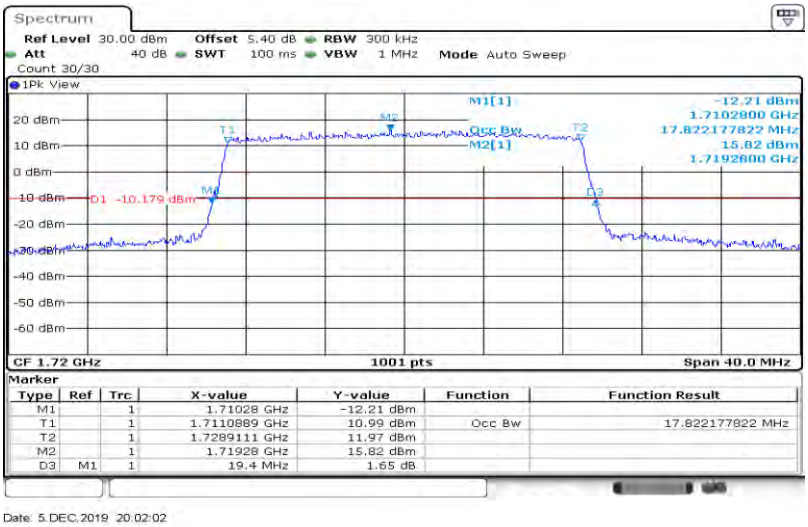

Band66-20MHz-16QAM-132322-100RB#0-17.862

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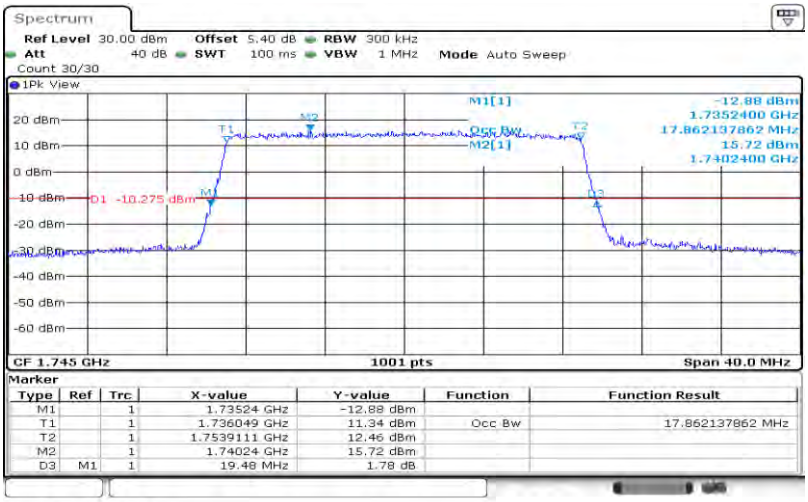

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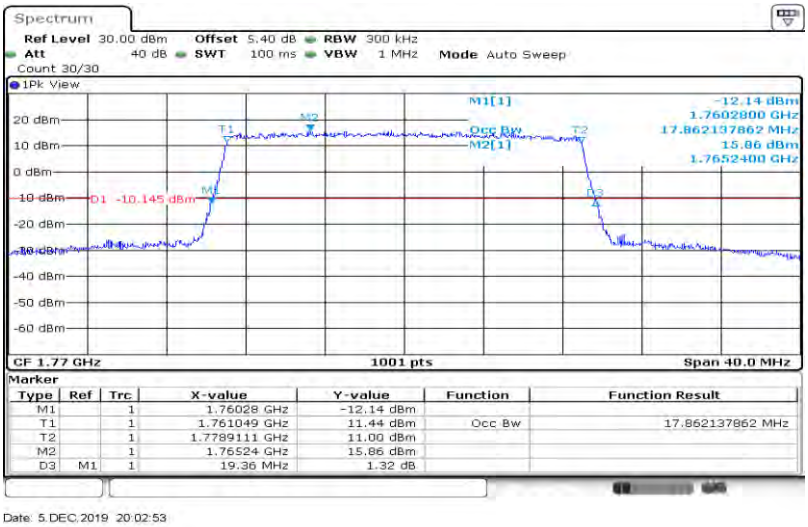

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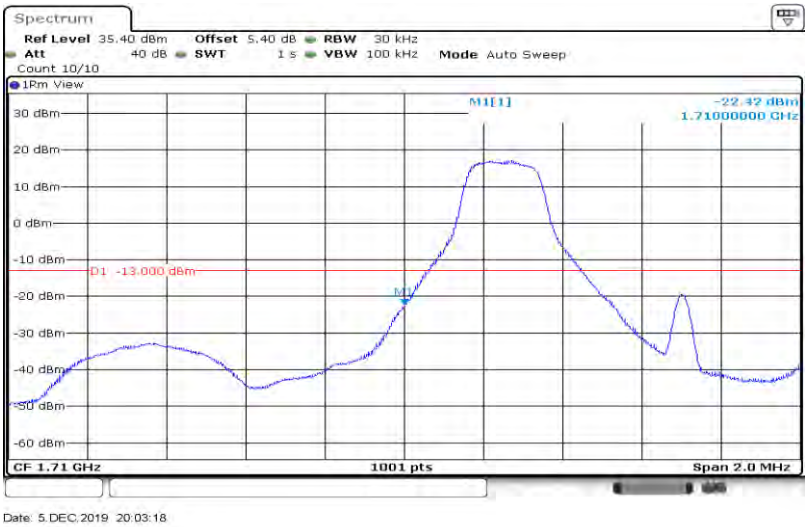
5. Band Edge Compliance

5.1. Test Plots

Band66-1.4MHz-QPSK-131979-1RB#0



Band66-1.4MHz-QPSK-131979-6RB#0

Band66-1.4MHz-QPSK-132665-1RB#5

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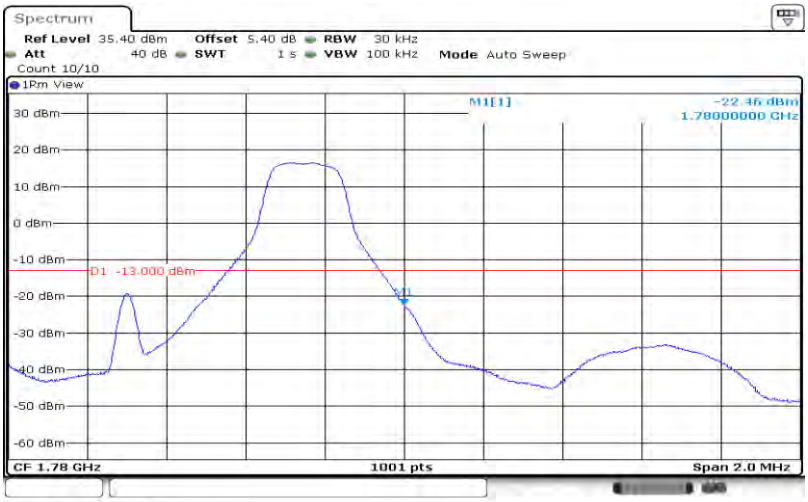

Date: 5.DEC.2019 20:04:40

Band66-1.4MHz-QPSK-132665-6RB#0

Date: 5.DEC.2019 20:05:19

Band66-1.4MHz-16QAM-131979-1RB#0

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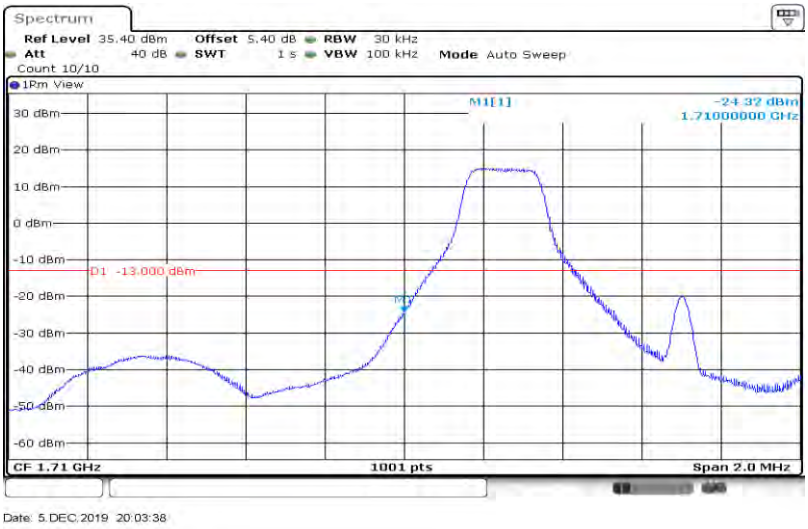

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Band66-1.4MHz-16QAM-132665-1RB#5

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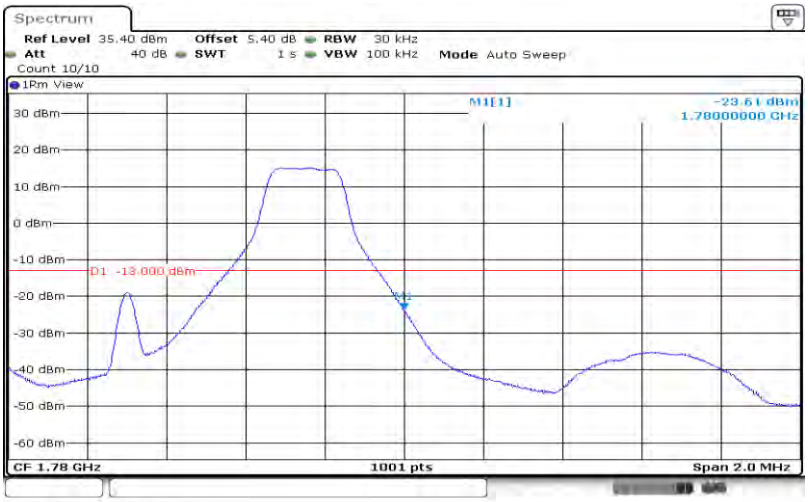

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Band66-1.4MHz-16QAM-132665-6RB#0

Date: 5.DEC.2019 20:05:39

Band66-3MHz-QPSK-131987-1RB#0

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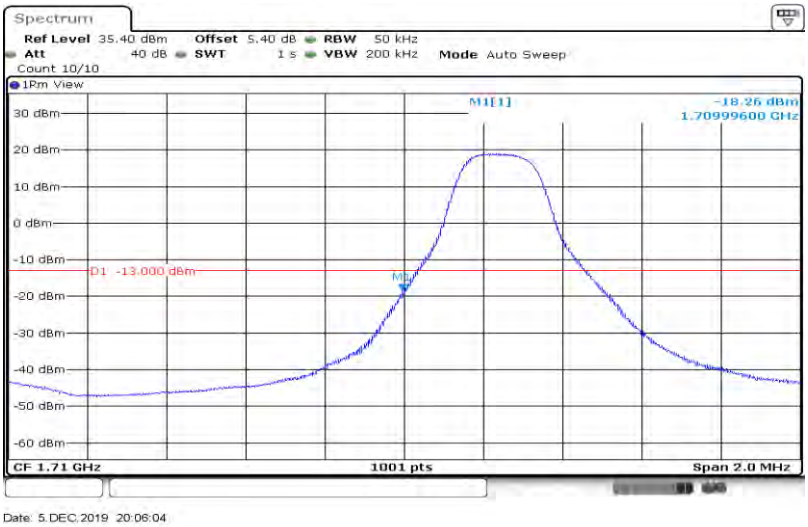

Band66-3MHz-QPSK-131987-15RB#0

Band66-3MHz-QPSK-132657-1RB#14

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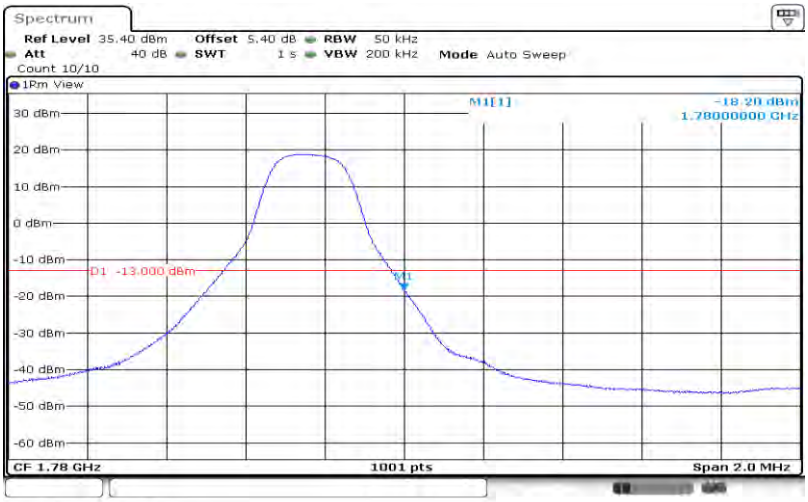

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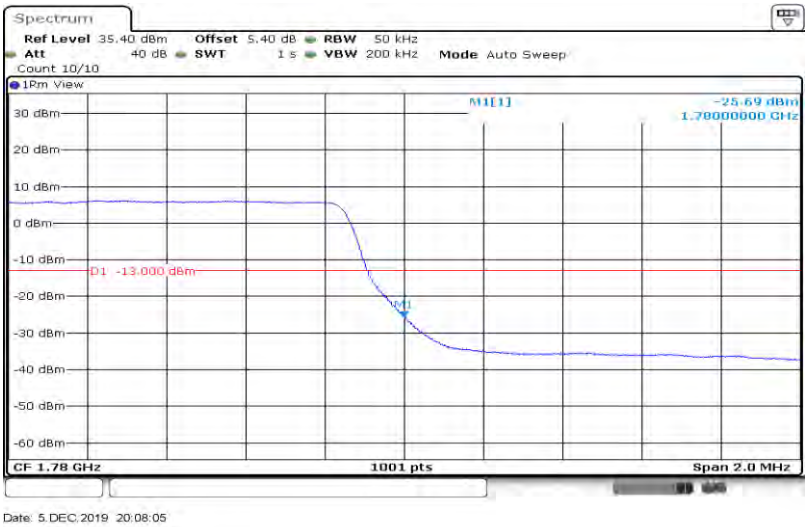

Band66-3MHz-16QAM-131987-1RB#0

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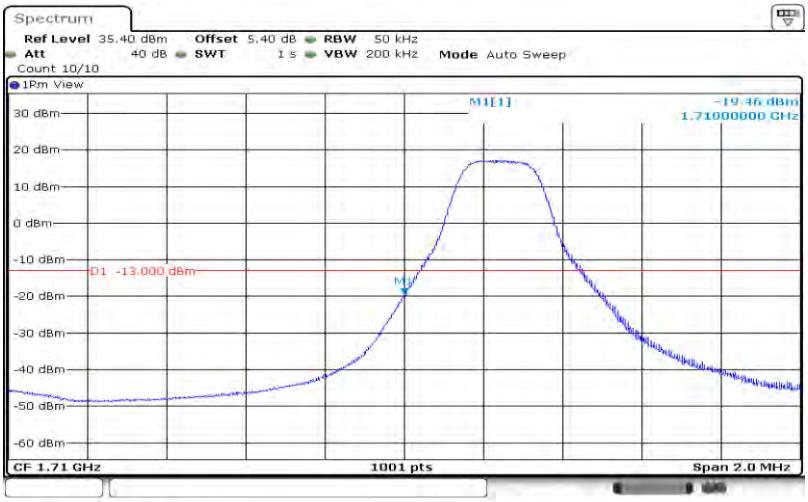

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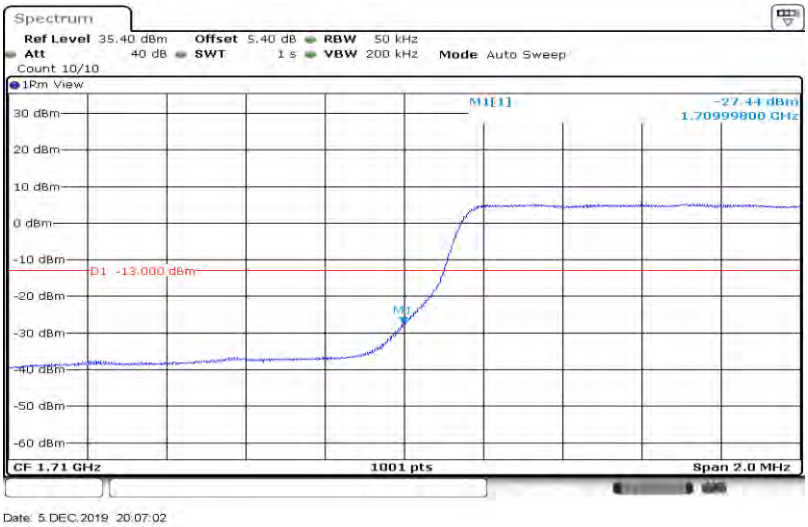

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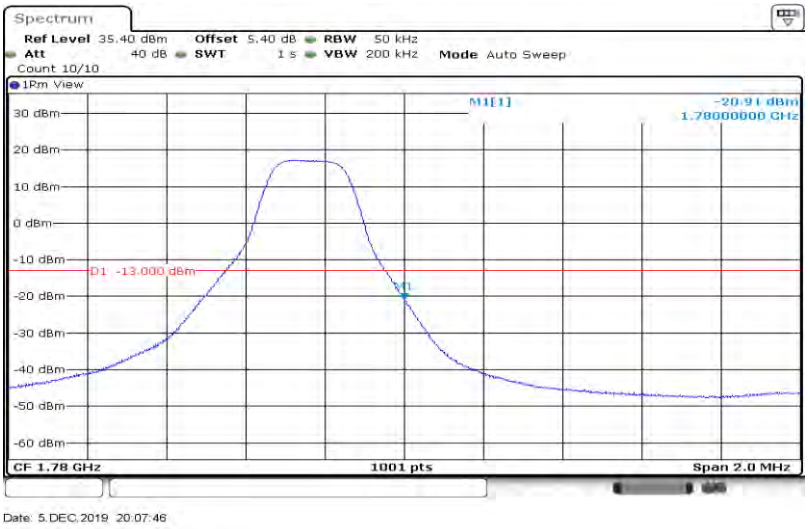

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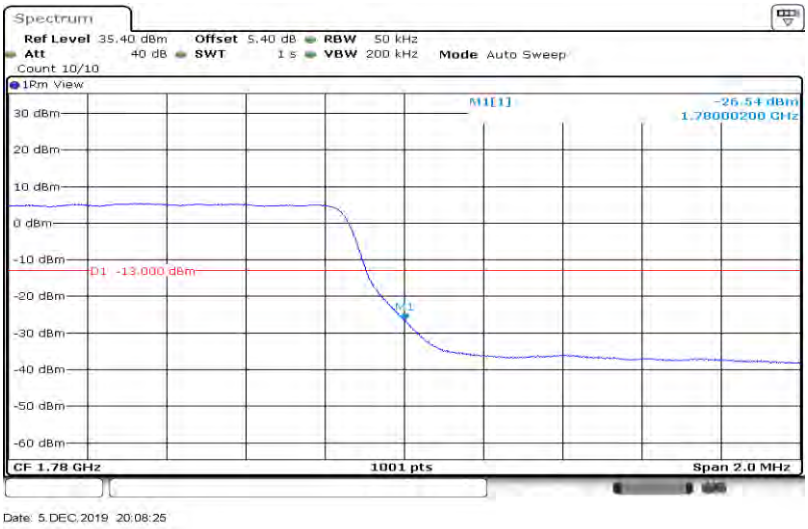

Band66-5MHz-QPSK-131997-1RB#0

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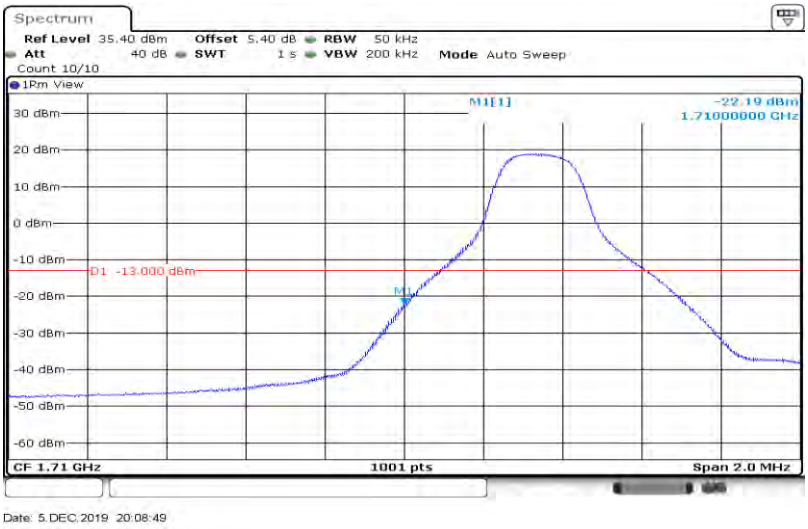

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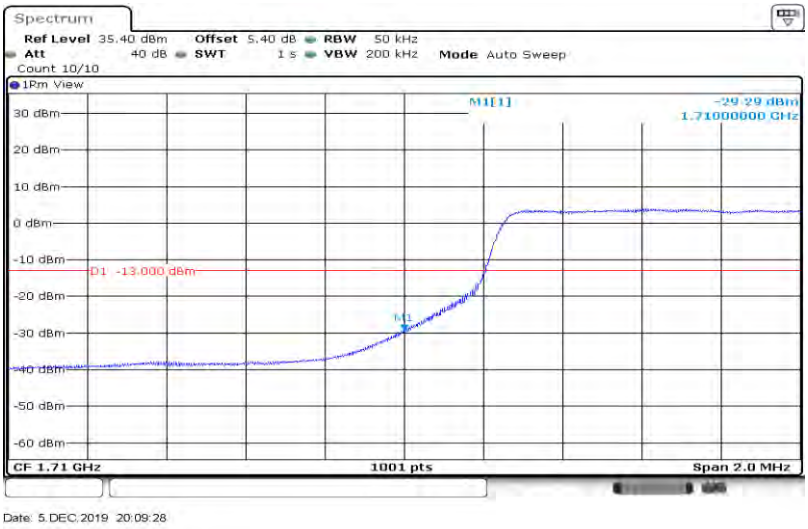

Band66-5MHz-QPSK-132647-1RB#24

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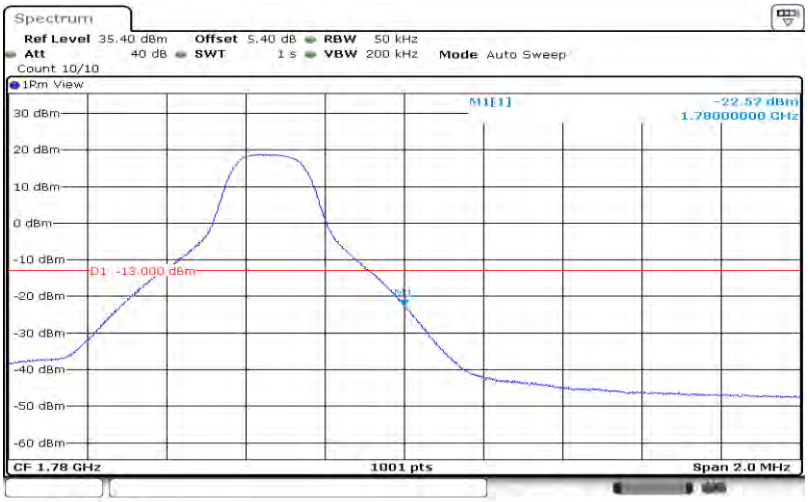

Band66-5MHz-QPSK-132647-25RB#0

Band66-5MHz-16QAM-131997-1RB#0

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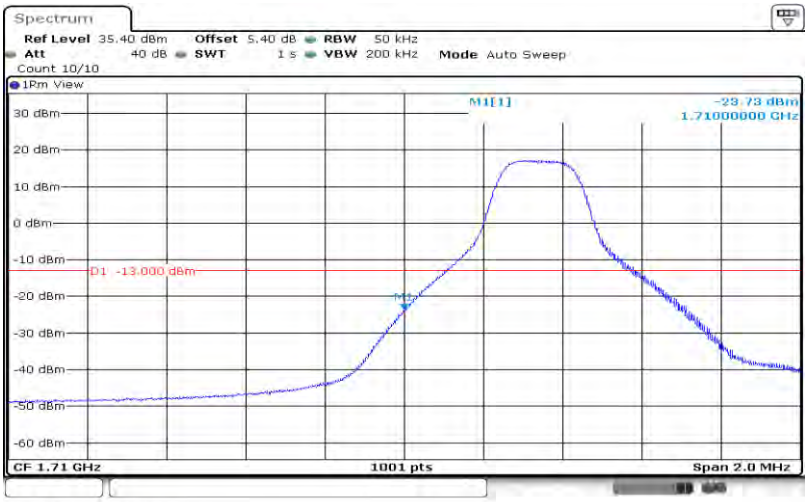

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Band66-5MHz-16QAM-132647-25RB#0

Band66-10MHz-QPSK-132022-1RB#0

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Band66-10MHz-QPSK-132022-50RB#0

Band66-10MHz-QPSK-132622-1RB#49

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Band66-10MHz-16QAM-132022-1RB#0

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Band66-10MHz-16QAM-132022-50RB#0

Band66-10MHz-16QAM-132622-1RB#49

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Band66-10MHz-16QAM-132622-50RB#0

Band66-15MHz-QPSK-132047-1RB#0

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Band66-15MHz-QPSK-132047-75RB#0

Band66-15MHz-QPSK-132597-1RB#74

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Date: 5.DEC.2019 20:15:43

Band66-15MHz-QPSK-132597-75RB#0

Date: 5.DEC.2019 20:16:22

Band66-15MHz-16QAM-132047-1RB#0

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Band66-15MHz-16QAM-132047-75RB#0

Band66-15MHz-16QAM-132597-1RB#74

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Band66-15MHz-16QAM-132597-75RB#0

Date: 5.DEC.2019 20:16:41

Band66-20MHz-QPSK-132072-1RB#0

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Band66-20MHz-QPSK-132072-100RB#0

Band66-20MHz-QPSK-132572-1RB#99

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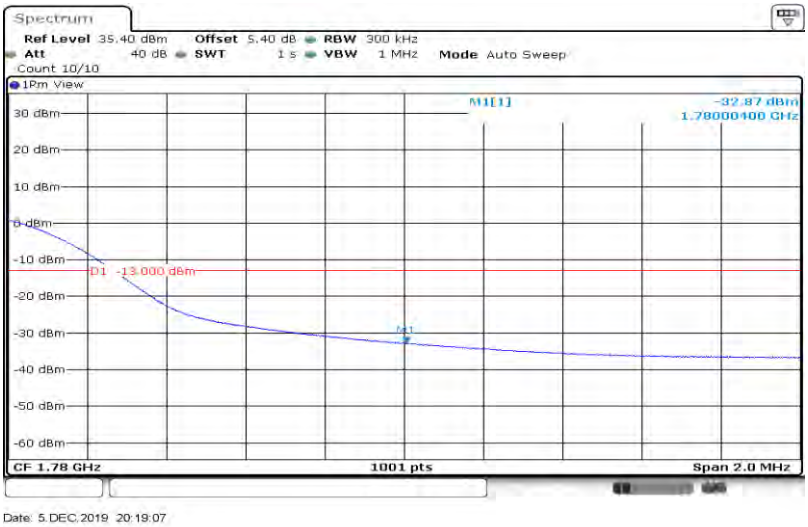
Band66-20MHz-QPSK-132572-100RB#0



Band66-20MHz-16QAM-132072-1RB#0

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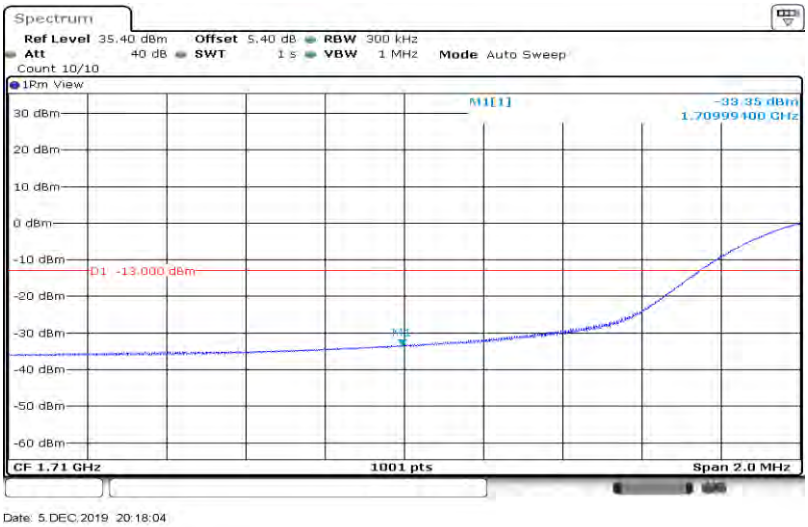

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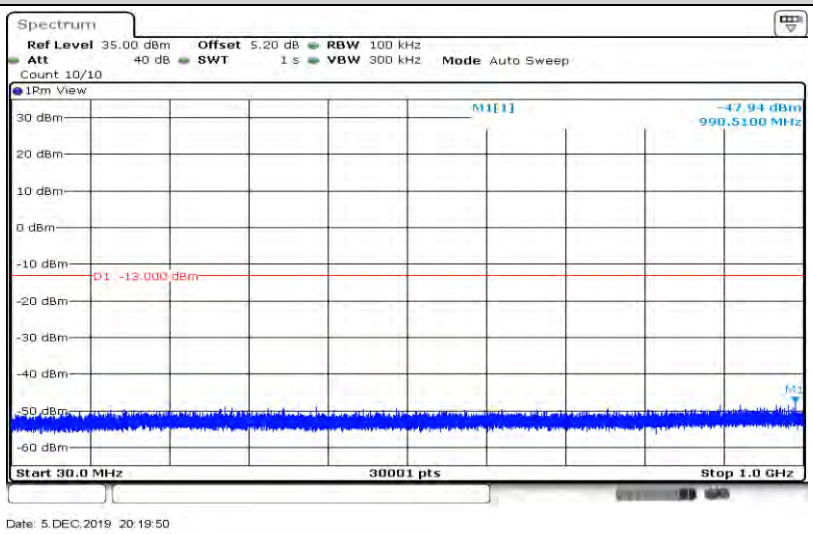
6. Spurious Emission at Antenna Terminal

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.

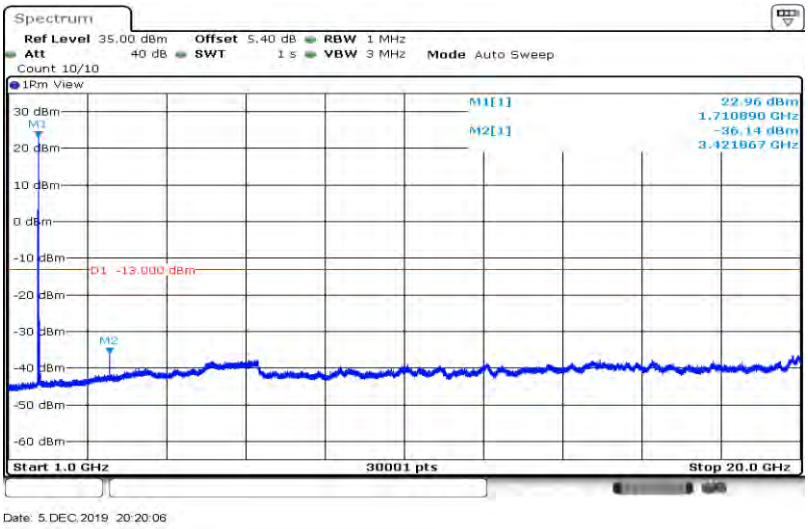
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band66-20MHz-QPSK-132072-1RB#0-Range1:30~1000MHz



Band66-20MHz-QPSK-132072-1RB#0-Range2:1000~20000MHz



Band66-20MHz-QPSK-132322-1RB#0-Range1:30~1000MHz

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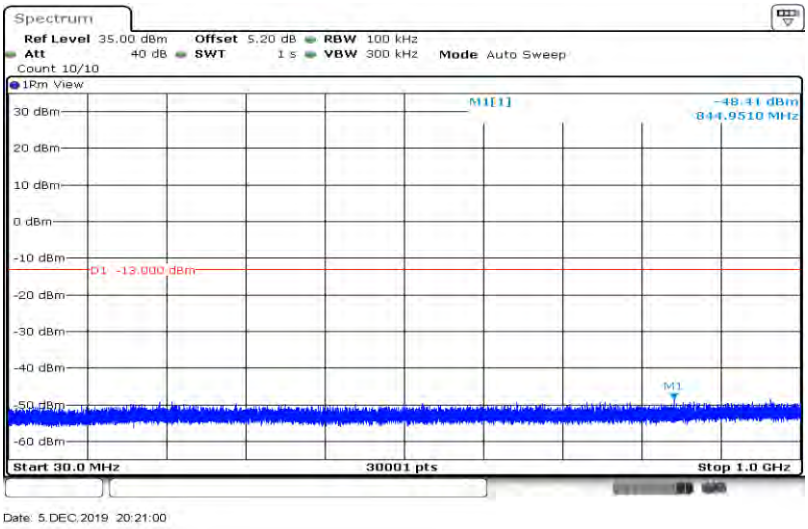
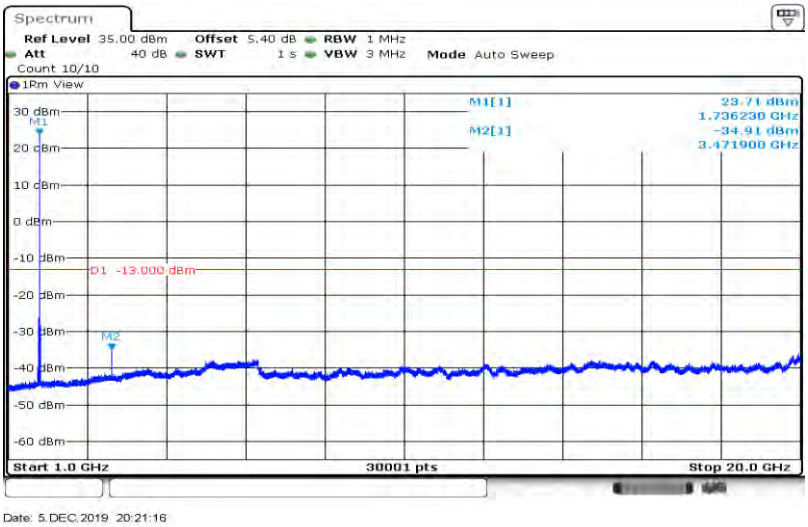


Band66-20MHz-QPSK-132322-1RB#0-Range2:1000~20000MHz



Band66-20MHz-QPSK-132572-1RB#0-Range1:30~1000MHz

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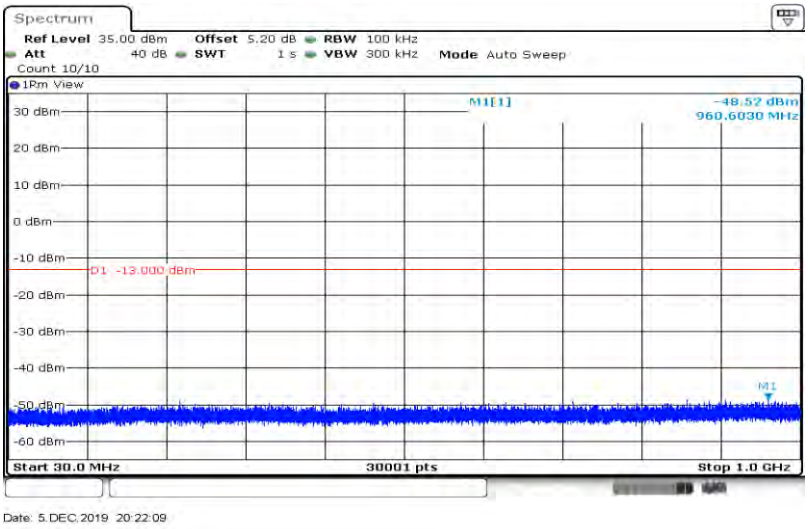
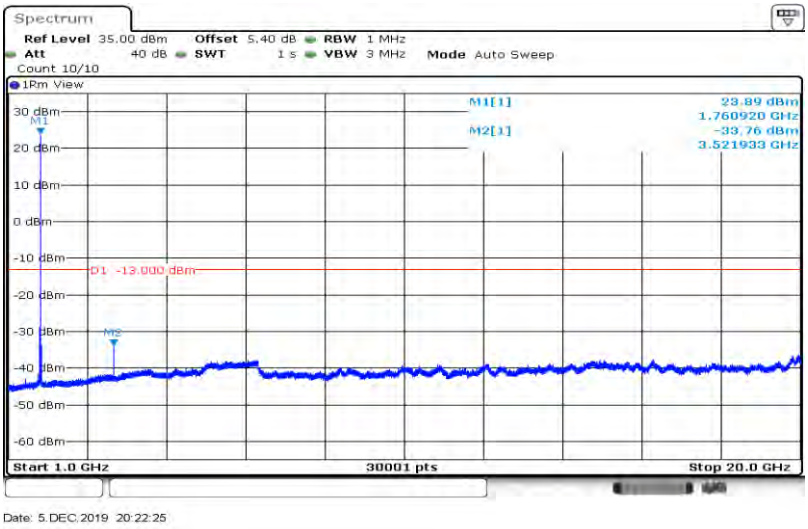


Band66-20MHz-QPSK-132572-1RB#0-Range2:1000~20000MHz



Band66-20MHz-16QAM-132072-1RB#0-Range1:30~1000MHz

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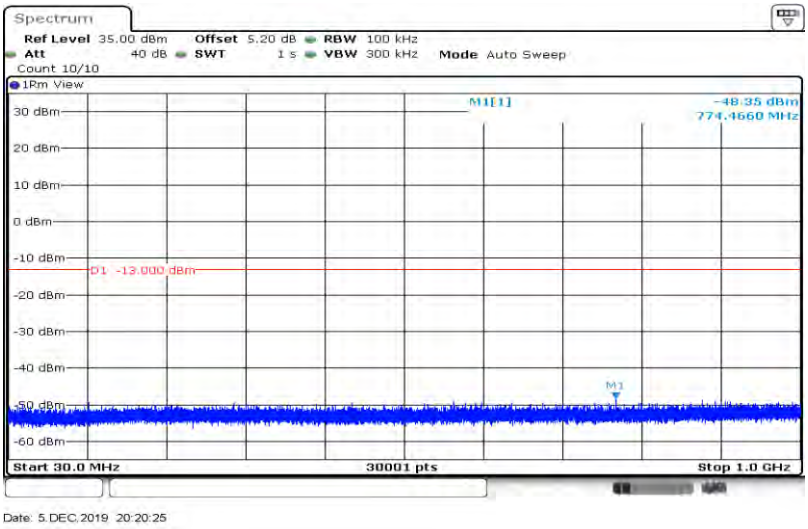
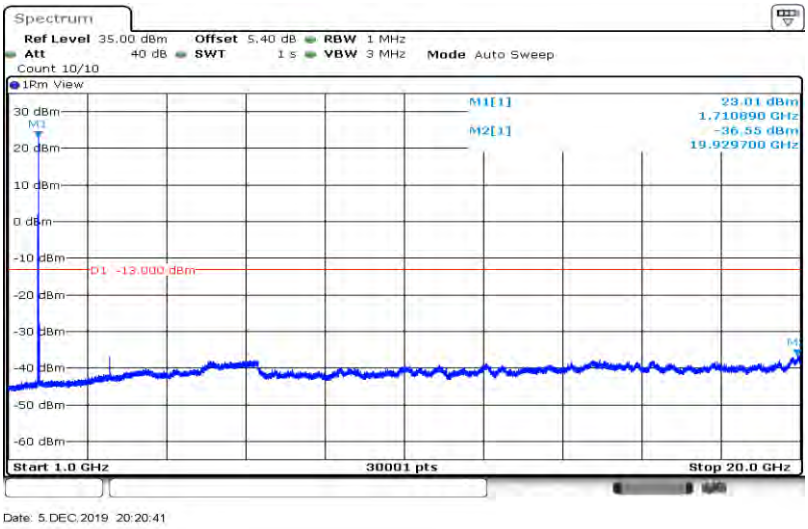


Band66-20MHz-16QAM-132072-1RB#0-Range2:1000~20000MHz



Band66-20MHz-16QAM-132322-1RB#0-Range1:30~1000MHz

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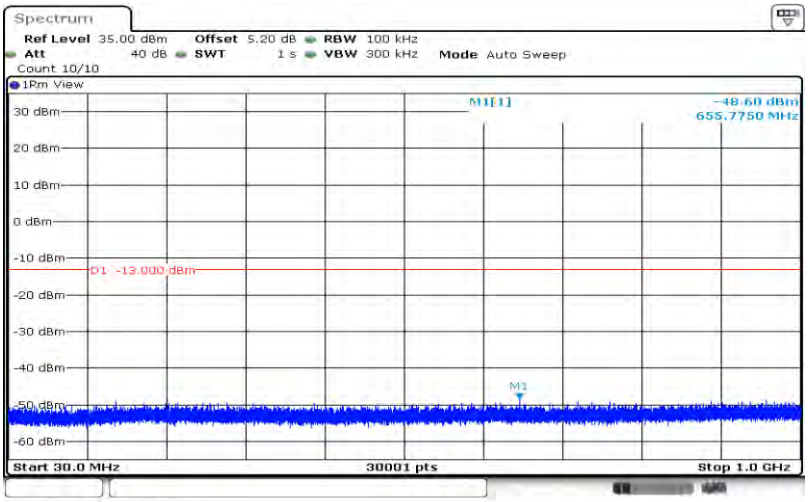
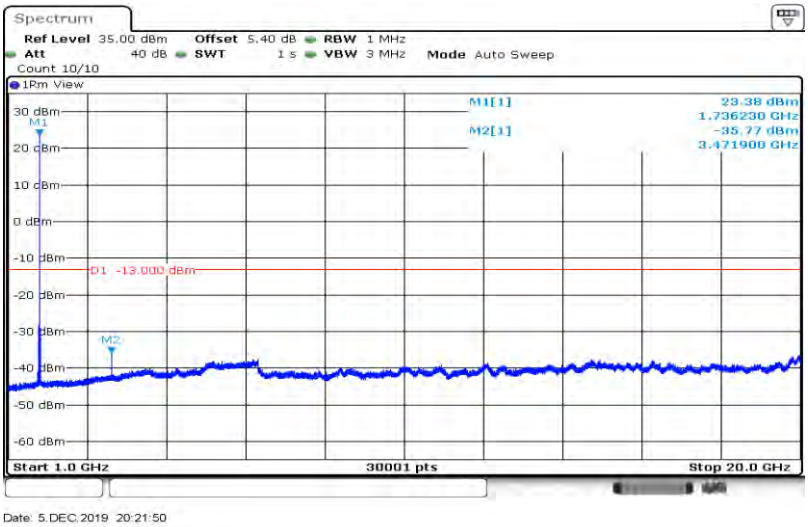


Band66-20MHz-16QAM-132322-1RB#0-Range2:1000~20000MHz



Band66-20MHz-16QAM-132572-1RB#0-Range1:30~1000MHz

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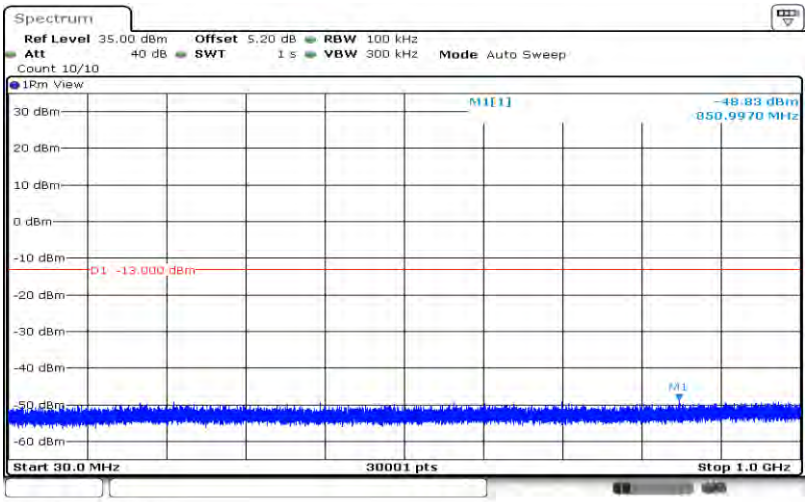
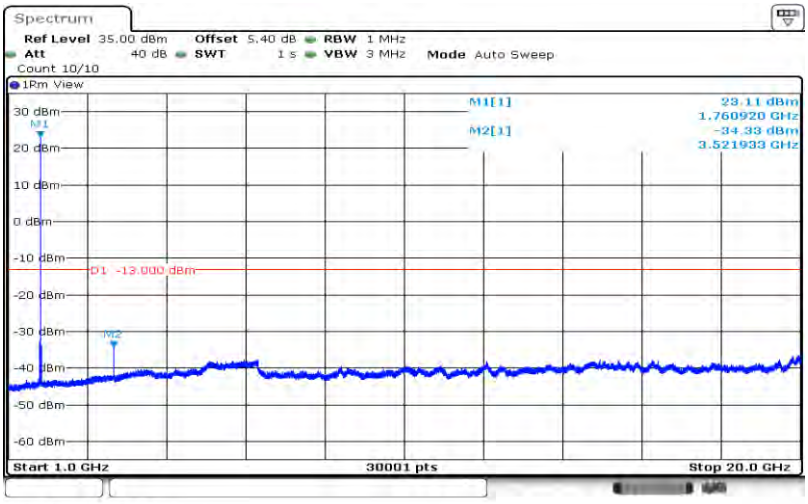


Date: 5.DEC.2019 20:22:44

Band66-20MHz-16QAM-132572-1RB#0-Range2:1000~20000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.9403	-75.30	-13.00	62.30	Vertical
146.2118	-71.08	-13.00	58.08	Vertical
2704.7409	-37.59	-13.00	24.59	Vertical
3472.5158	-44.65	-13.00	31.65	Vertical
5208.5736	-54.83	-13.00	41.83	Vertical
17996.9999	-34.43	-13.00	21.43	Vertical
35.6263	-62.94	-13.00	49.94	Horizontal
138.6454	-70.77	-13.00	57.77	Horizontal
2699.1398	-36.29	-13.00	23.29	Horizontal
3472.0157	-39.51	-13.00	26.51	Horizontal
5208.5736	-55.88	-13.00	42.88	Horizontal
17996.4999	-39.58	-13.00	26.58	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
35.5778	-74.70	-13.00	61.70	Vertical
2702.7405	-37.54	-13.00	24.54	Vertical
3422.0141	-37.74	-13.00	24.74	Vertical
5133.5711	-53.06	-13.00	40.06	Vertical
8555.6852	-44.83	-13.00	31.83	Vertical
17997.9999	-34.09	-13.00	21.09	Vertical
35.5778	-58.06	-13.00	45.06	Horizontal
146.7453	-71.61	-13.00	58.61	Horizontal
2698.3397	-36.36	-13.00	23.36	Horizontal
3422.0141	-34.24	-13.00	21.24	Horizontal
5133.0711	-52.03	-13.00	39.03	Horizontal
16397.9466	-38.97	-13.00	25.97	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
35.6263	-79.19	-13.00	66.19	Vertical
2693.5387	-37.53	-13.00	24.53	Vertical
3522.5174	-38.95	-13.00	25.95	Vertical
5283.5761	-55.61	-13.00	42.61	Vertical
8805.1935	-46.79	-13.00	33.79	Vertical
17990.4997	-34.19	-13.00	21.19	Vertical
35.5778	-66.71	-13.00	53.71	Horizontal
139.3730	-71.86	-13.00	58.86	Horizontal
2701.9404	-36.18	-13.00	23.18	Horizontal
3522.0174	-34.06	-13.00	21.06	Horizontal
5283.5761	-55.91	-13.00	42.91	Horizontal
16395.9465	-38.33	-13.00	25.33	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	VL	NT	1.70	0.000988	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VN	NT	1.00	0.000581	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VH	NT	-0.30	-0.000174	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-2.80	-0.001605	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-3.00	-0.001719	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-1.40	-0.000802	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VL	NT	1.10	0.000621	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VN	NT	1.70	0.000960	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VH	NT	1.70	0.000960	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VL	NT	2.40	0.001395	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VN	NT	2.00	0.001163	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VH	NT	1.50	0.000872	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VL	NT	-3.00	-0.001719	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VN	NT	-3.10	-0.001777	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VH	NT	-3.70	-0.002120	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VL	NT	1.00	0.000565	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VN	NT	1.80	0.001017	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VH	NT	1.00	0.000565	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	NV	-30	0.70	0.000407	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-20	0.20	0.000116	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	0	2.40	0.001395	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	10	1.20	0.000698	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	20	1.50	0.000872	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-2.40	-0.001375	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-2.40	-0.001375	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-2.50	-0.001433	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-4.30	-0.002464	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-2.80	-0.001605	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-30	0.80	0.000452	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-20	0.70	0.000395	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	0	1.00	0.000565	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	10	-0.40	-0.000226	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	20	1.50	0.000847	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-30	0.10	0.000058	±2.5	PASS

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Band66	20MHz	16QAM	132072	100RB#0	NV	-20	1.60	0.000930	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	0	2.40	0.001395	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	10	1.50	0.000872	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	20	2.60	0.001512	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-30	-3.20	-0.001834	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-20	-2.40	-0.001375	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	0	-4.00	-0.002292	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	10	-3.00	-0.001719	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	20	-2.70	-0.001547	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-30	-0.50	-0.000282	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-20	0.20	0.000113	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	0	-1.40	-0.000791	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	10	-1.90	-0.001073	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	20	-0.10	-0.000056	±2.5	PASS

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