



# Appendix B

## E-UTRA BAND 26 (824MHz-849MHz)



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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band26	1.4MHz	QPSK	26797	1RB#0	24.37	24.00	38.45	PASS
Band26	1.4MHz	QPSK	26797	1RB#2	24.43	24.06	38.45	PASS
Band26	1.4MHz	QPSK	26797	1RB#5	24.32	23.95	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#0	24.47	24.10	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#1	24.52	24.15	38.45	PASS
Band26	1.4MHz	QPSK	26797	3RB#3	24.56	24.19	38.45	PASS
Band26	1.4MHz	QPSK	26797	6RB#0	23.39	23.02	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#0	24.39	24.02	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#2	24.58	24.21	38.45	PASS
Band26	1.4MHz	QPSK	26915	1RB#5	24.53	24.16	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#0	24.53	24.16	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#1	24.55	24.18	38.45	PASS
Band26	1.4MHz	QPSK	26915	3RB#3	24.47	24.10	38.45	PASS
Band26	1.4MHz	QPSK	26915	6RB#0	23.42	23.05	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#0	24.43	24.06	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#2	24.22	23.85	38.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#5	24.08	23.71	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#0	24.20	23.83	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#1	24.54	24.17	38.45	PASS
Band26	1.4MHz	QPSK	27033	3RB#3	24.20	23.83	38.45	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	23.35	22.98	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#0	22.91	22.54	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#2	23.08	22.71	38.45	PASS
Band26	1.4MHz	16QAM	26797	1RB#5	22.97	22.60	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#0	23.64	23.27	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#1	23.53	23.16	38.45	PASS
Band26	1.4MHz	16QAM	26797	3RB#3	23.58	23.21	38.45	PASS
Band26	1.4MHz	16QAM	26797	6RB#0	22.80	22.43	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#0	22.84	22.47	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#2	23.04	22.67	38.45	PASS
Band26	1.4MHz	16QAM	26915	1RB#5	22.66	22.29	38.45	PASS



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Band26	1.4MHz	16QAM	26915	3RB#0	23.72	23.35	38.45	PASS
Band26	1.4MHz	16QAM	26915	3RB#1	23.50	23.13	38.45	PASS
Band26	1.4MHz	16QAM	26915	3RB#3	23.52	23.15	38.45	PASS
Band26	1.4MHz	16QAM	26915	6RB#0	22.56	22.19	38.45	PASS
Band26	1.4MHz	16QAM	27033	1RB#0	22.70	22.33	38.45	PASS
Band26	1.4MHz	16QAM	27033	1RB#2	22.76	22.39	38.45	PASS
Band26	1.4MHz	16QAM	27033	1RB#5	22.92	22.55	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#0	23.58	23.21	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#1	23.46	23.09	38.45	PASS
Band26	1.4MHz	16QAM	27033	3RB#3	23.88	23.51	38.45	PASS
Band26	1.4MHz	16QAM	27033	6RB#0	22.33	21.96	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#0	24.52	24.15	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#8	24.22	23.85	38.45	PASS
Band26	3MHz	QPSK	26805	1RB#14	24.67	24.30	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#0	23.20	22.83	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#4	23.41	23.04	38.45	PASS
Band26	3MHz	QPSK	26805	8RB#7	23.55	23.18	38.45	PASS
Band26	3MHz	QPSK	26805	15RB#0	23.45	23.08	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#0	24.68	24.31	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#8	24.02	23.65	38.45	PASS
Band26	3MHz	QPSK	26915	1RB#14	24.39	24.02	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#0	23.35	22.98	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#4	23.36	22.99	38.45	PASS
Band26	3MHz	QPSK	26915	8RB#7	23.35	22.98	38.45	PASS
Band26	3MHz	QPSK	26915	15RB#0	23.43	23.06	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#0	24.47	24.10	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#8	24.20	23.83	38.45	PASS
Band26	3MHz	QPSK	27025	1RB#14	24.18	23.81	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#0	23.68	23.31	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#4	23.22	22.85	38.45	PASS
Band26	3MHz	QPSK	27025	8RB#7	23.16	22.79	38.45	PASS
Band26	3MHz	QPSK	27025	15RB#0	23.46	23.09	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#0	22.82	22.45	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#8	22.83	22.46	38.45	PASS
Band26	3MHz	16QAM	26805	1RB#14	23.10	22.73	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#0	22.21	21.84	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#4	22.28	21.91	38.45	PASS
Band26	3MHz	16QAM	26805	8RB#7	22.34	21.97	38.45	PASS



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Band26	3MHz	16QAM	26805	15RB#0	22.57	22.20	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#0	23.05	22.68	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#8	22.92	22.55	38.45	PASS
Band26	3MHz	16QAM	26915	1RB#14	22.87	22.50	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#0	22.27	21.90	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#4	22.20	21.83	38.45	PASS
Band26	3MHz	16QAM	26915	8RB#7	22.42	22.05	38.45	PASS
Band26	3MHz	16QAM	26915	15RB#0	22.45	22.08	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#0	22.56	22.19	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#8	22.86	22.49	38.45	PASS
Band26	3MHz	16QAM	27025	1RB#14	23.27	22.90	38.45	PASS
Band26	3MHz	16QAM	27025	8RB#0	22.27	21.90	38.45	PASS
Band26	3MHz	16QAM	27025	8RB#4	22.23	21.86	38.45	PASS
Band26	3MHz	16QAM	27025	8RB#7	22.42	22.05	38.45	PASS
Band26	3MHz	16QAM	27025	15RB#0	22.44	22.07	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#0	24.29	23.92	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#12	24.29	23.92	38.45	PASS
Band26	5MHz	QPSK	26815	1RB#24	24.52	24.15	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#0	23.25	22.88	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#6	23.48	23.11	38.45	PASS
Band26	5MHz	QPSK	26815	12RB#13	23.39	23.02	38.45	PASS
Band26	5MHz	QPSK	26815	25RB#0	23.36	22.99	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#0	24.47	24.10	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#12	24.24	23.87	38.45	PASS
Band26	5MHz	QPSK	26915	1RB#24	24.59	24.22	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#0	23.25	22.88	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#6	23.45	23.08	38.45	PASS
Band26	5MHz	QPSK	26915	12RB#13	23.34	22.97	38.45	PASS
Band26	5MHz	QPSK	26915	25RB#0	23.36	22.99	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#0	24.62	24.25	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#12	23.98	23.61	38.45	PASS
Band26	5MHz	QPSK	27015	1RB#24	24.01	23.64	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#0	23.62	23.25	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#6	23.24	22.87	38.45	PASS
Band26	5MHz	QPSK	27015	12RB#13	23.19	22.82	38.45	PASS
Band26	5MHz	QPSK	27015	25RB#0	23.57	23.20	38.45	PASS
Band26	5MHz	16QAM	26815	1RB#0	22.79	22.42	38.45	PASS
Band26	5MHz	16QAM	26815	1RB#12	23.51	23.14	38.45	PASS



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Band26	5MHz	16QAM	26815	1RB#24	22.91	22.54	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#0	22.34	21.97	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#6	22.35	21.98	38.45	PASS
Band26	5MHz	16QAM	26815	12RB#13	22.35	21.98	38.45	PASS
Band26	5MHz	16QAM	26815	25RB#0	22.47	22.10	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#0	22.72	22.35	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#12	23.03	22.66	38.45	PASS
Band26	5MHz	16QAM	26915	1RB#24	22.59	22.22	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#0	22.56	22.19	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#6	22.40	22.03	38.45	PASS
Band26	5MHz	16QAM	26915	12RB#13	22.37	22.00	38.45	PASS
Band26	5MHz	16QAM	26915	25RB#0	22.50	22.13	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#0	22.86	22.49	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#12	23.35	22.98	38.45	PASS
Band26	5MHz	16QAM	27015	1RB#24	23.25	22.88	38.45	PASS
Band26	5MHz	16QAM	27015	12RB#0	22.18	21.81	38.45	PASS
Band26	5MHz	16QAM	27015	12RB#6	22.44	22.07	38.45	PASS
Band26	5MHz	16QAM	27015	12RB#13	22.41	22.04	38.45	PASS
Band26	5MHz	16QAM	27015	25RB#0	22.47	22.10	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#0	24.53	24.16	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#24	24.49	24.12	38.45	PASS
Band26	10MHz	QPSK	26840	1RB#49	24.51	24.14	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#0	23.57	23.20	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#12	23.51	23.14	38.45	PASS
Band26	10MHz	QPSK	26840	25RB#25	23.48	23.11	38.45	PASS
Band26	10MHz	QPSK	26840	50RB#0	23.48	23.11	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#0	24.44	24.07	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#24	24.55	24.18	38.45	PASS
Band26	10MHz	QPSK	26915	1RB#49	24.39	24.02	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#0	23.54	23.17	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#12	23.48	23.11	38.45	PASS
Band26	10MHz	QPSK	26915	25RB#25	23.41	23.04	38.45	PASS
Band26	10MHz	QPSK	26915	50RB#0	23.40	23.03	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#0	24.52	24.15	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#24	24.42	24.05	38.45	PASS
Band26	10MHz	QPSK	26990	1RB#49	24.00	23.63	38.45	PASS
Band26	10MHz	QPSK	26990	25RB#0	23.51	23.14	38.45	PASS
Band26	10MHz	QPSK	26990	25RB#12	23.34	22.97	38.45	PASS



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Band26	10MHz	QPSK	26990	25RB#25	23.45	23.08	38.45	PASS
Band26	10MHz	QPSK	26990	50RB#0	23.39	23.02	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#0	22.66	22.29	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#24	22.94	22.57	38.45	PASS
Band26	10MHz	16QAM	26840	1RB#49	22.99	22.62	38.45	PASS
Band26	10MHz	16QAM	26840	25RB#0	22.59	22.22	38.45	PASS
Band26	10MHz	16QAM	26840	25RB#12	22.43	22.06	38.45	PASS
Band26	10MHz	16QAM	26840	25RB#25	22.60	22.23	38.45	PASS
Band26	10MHz	16QAM	26840	50RB#0	22.45	22.08	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#0	22.81	22.44	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#24	22.70	22.33	38.45	PASS
Band26	10MHz	16QAM	26915	1RB#49	23.05	22.68	38.45	PASS
Band26	10MHz	16QAM	26915	25RB#0	22.73	22.36	38.45	PASS
Band26	10MHz	16QAM	26915	25RB#12	22.64	22.27	38.45	PASS
Band26	10MHz	16QAM	26915	25RB#25	22.40	22.03	38.45	PASS
Band26	10MHz	16QAM	26915	50RB#0	22.34	21.97	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#0	22.88	22.51	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#24	23.10	22.73	38.45	PASS
Band26	10MHz	16QAM	26990	1RB#49	23.35	22.98	38.45	PASS
Band26	10MHz	16QAM	26990	25RB#0	22.47	22.10	38.45	PASS
Band26	10MHz	16QAM	26990	25RB#12	22.53	22.16	38.45	PASS
Band26	10MHz	16QAM	26990	25RB#25	22.51	22.14	38.45	PASS
Band26	10MHz	16QAM	26990	50RB#0	22.43	22.06	38.45	PASS
Band26	15MHz	QPSK	26865	1RB#0	24.51	24.14	38.45	PASS
Band26	15MHz	QPSK	26865	1RB#38	24.45	24.08	38.45	PASS
Band26	15MHz	QPSK	26865	1RB#74	24.61	24.24	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#0	23.40	23.03	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#18	23.54	23.17	38.45	PASS
Band26	15MHz	QPSK	26865	36RB#39	23.35	22.98	38.45	PASS
Band26	15MHz	QPSK	26865	75RB#0	23.44	23.07	38.45	PASS
Band26	15MHz	QPSK	26915	1RB#0	24.49	24.12	38.45	PASS
Band26	15MHz	QPSK	26915	1RB#38	24.17	23.80	38.45	PASS
Band26	15MHz	QPSK	26915	1RB#74	24.42	24.05	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#0	23.61	23.24	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#18	23.50	23.13	38.45	PASS
Band26	15MHz	QPSK	26915	36RB#39	23.44	23.07	38.45	PASS
Band26	15MHz	QPSK	26915	75RB#0	23.45	23.08	38.45	PASS
Band26	15MHz	QPSK	26965	1RB#0	24.63	24.26	38.45	PASS



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Band26	15MHz	QPSK	26965	1RB#38	24.20	23.83	38.45	PASS
Band26	15MHz	QPSK	26965	1RB#74	24.09	23.72	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#0	23.38	23.01	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#18	23.33	22.96	38.45	PASS
Band26	15MHz	QPSK	26965	36RB#39	23.19	22.82	38.45	PASS
Band26	15MHz	QPSK	26965	75RB#0	23.34	22.97	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#0	22.85	22.48	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#38	22.94	22.57	38.45	PASS
Band26	15MHz	16QAM	26865	1RB#74	22.80	22.43	38.45	PASS
Band26	15MHz	16QAM	26865	36RB#0	22.49	22.12	38.45	PASS
Band26	15MHz	16QAM	26865	36RB#18	22.40	22.03	38.45	PASS
Band26	15MHz	16QAM	26865	36RB#39	22.38	22.01	38.45	PASS
Band26	15MHz	16QAM	26865	75RB#0	22.46	22.09	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#0	23.18	22.81	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#38	23.41	23.04	38.45	PASS
Band26	15MHz	16QAM	26915	1RB#74	22.95	22.58	38.45	PASS
Band26	15MHz	16QAM	26915	36RB#0	22.61	22.24	38.45	PASS
Band26	15MHz	16QAM	26915	36RB#18	22.46	22.09	38.45	PASS
Band26	15MHz	16QAM	26915	36RB#39	22.44	22.07	38.45	PASS
Band26	15MHz	16QAM	26915	75RB#0	22.49	22.12	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#0	22.89	22.52	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#38	23.00	22.63	38.45	PASS
Band26	15MHz	16QAM	26965	1RB#74	22.78	22.41	38.45	PASS
Band26	15MHz	16QAM	26965	36RB#0	22.42	22.05	38.45	PASS
Band26	15MHz	16QAM	26965	36RB#18	22.48	22.11	38.45	PASS
Band26	15MHz	16QAM	26965	36RB#39	22.26	21.89	38.45	PASS
Band26	15MHz	16QAM	26965	75RB#0	22.38	22.01	38.45	PASS

Remark:

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

$$\text{ERP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{Conducted Power [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$



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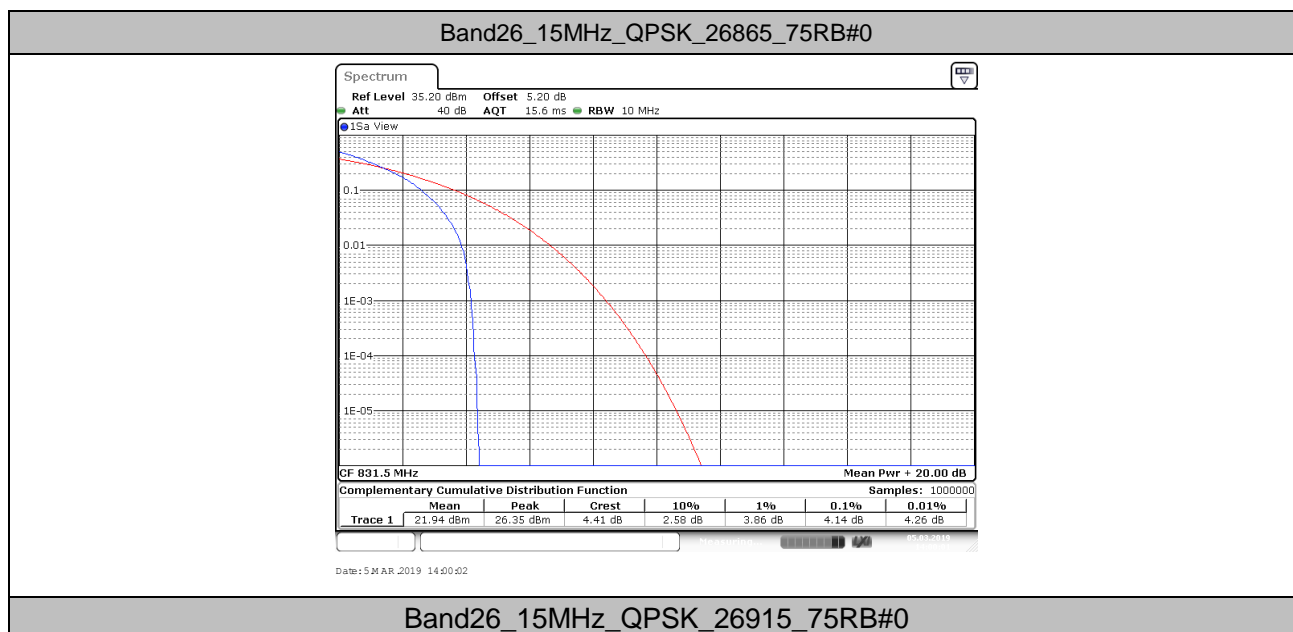


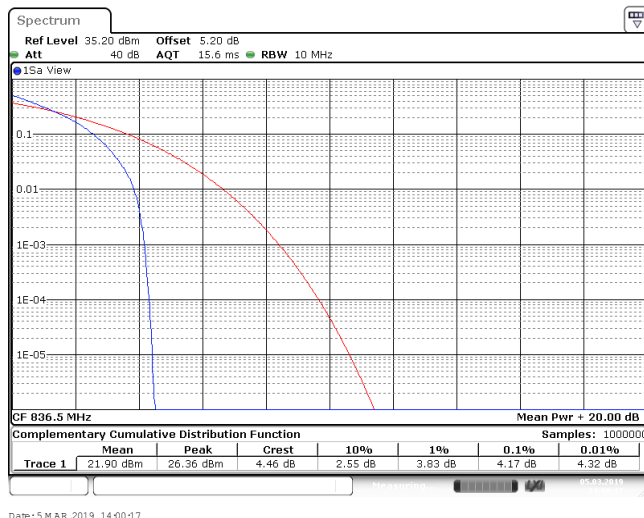
## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

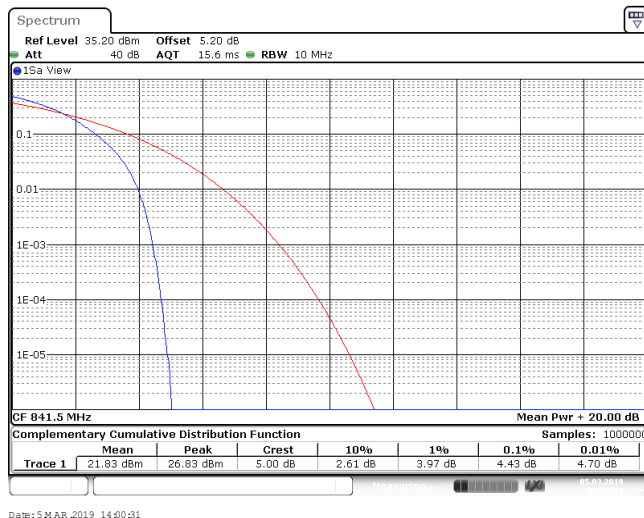
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	15MHz	QPSK	26865	75RB#0	4.14	13	PASS
Band26	15MHz	QPSK	26915	75RB#0	4.17	13	PASS
Band26	15MHz	QPSK	26965	75RB#0	4.43	13	PASS
Band26	15MHz	16QAM	26865	75RB#0	5.51	13	PASS
Band26	15MHz	16QAM	26915	75RB#0	5.51	13	PASS
Band26	15MHz	16QAM	26965	75RB#0	5.62	13	PASS

### 2.2. Test Plots





Band26\_15MHz\_QPSK\_26965\_75RB#0

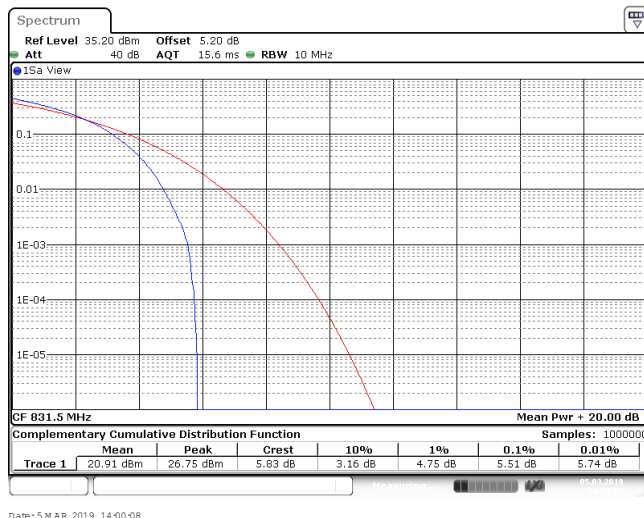


Band26\_15MHz\_16QAM\_26865\_75RB#0

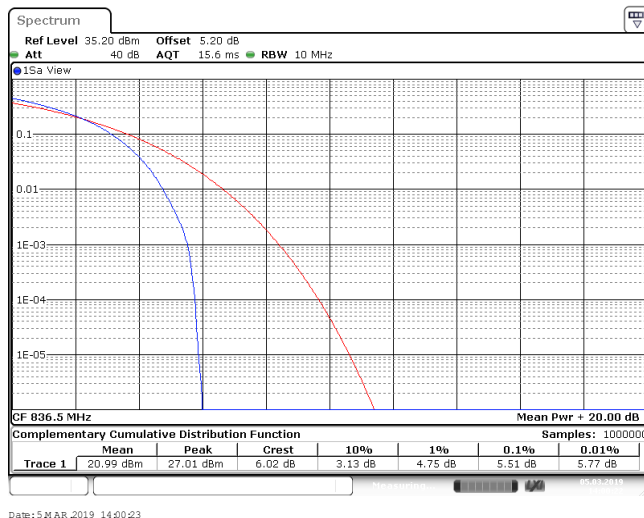


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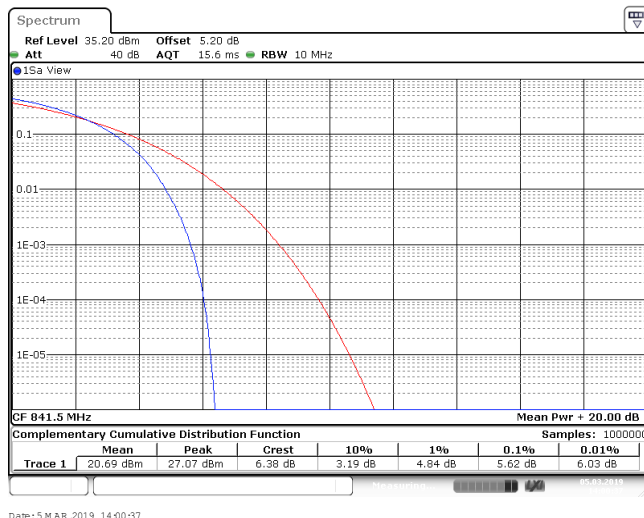


## Band26\_15MHz\_16QAM\_26915\_75RB#0



## Band26\_15MHz\_16QAM\_26965\_75RB#0





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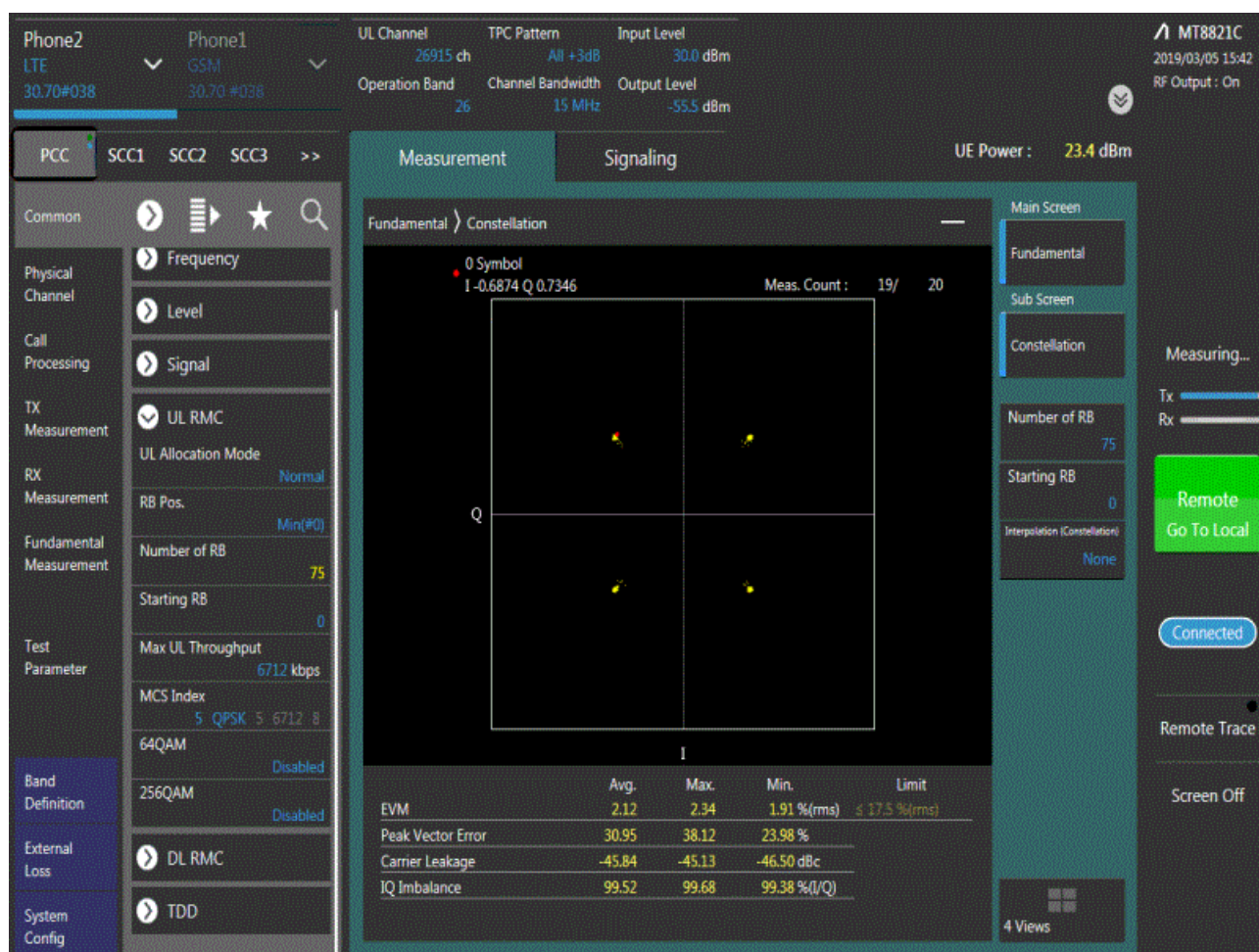


### 3. Modulation Characteristics

#### 3.1. Test BAND = LTE BAND 26

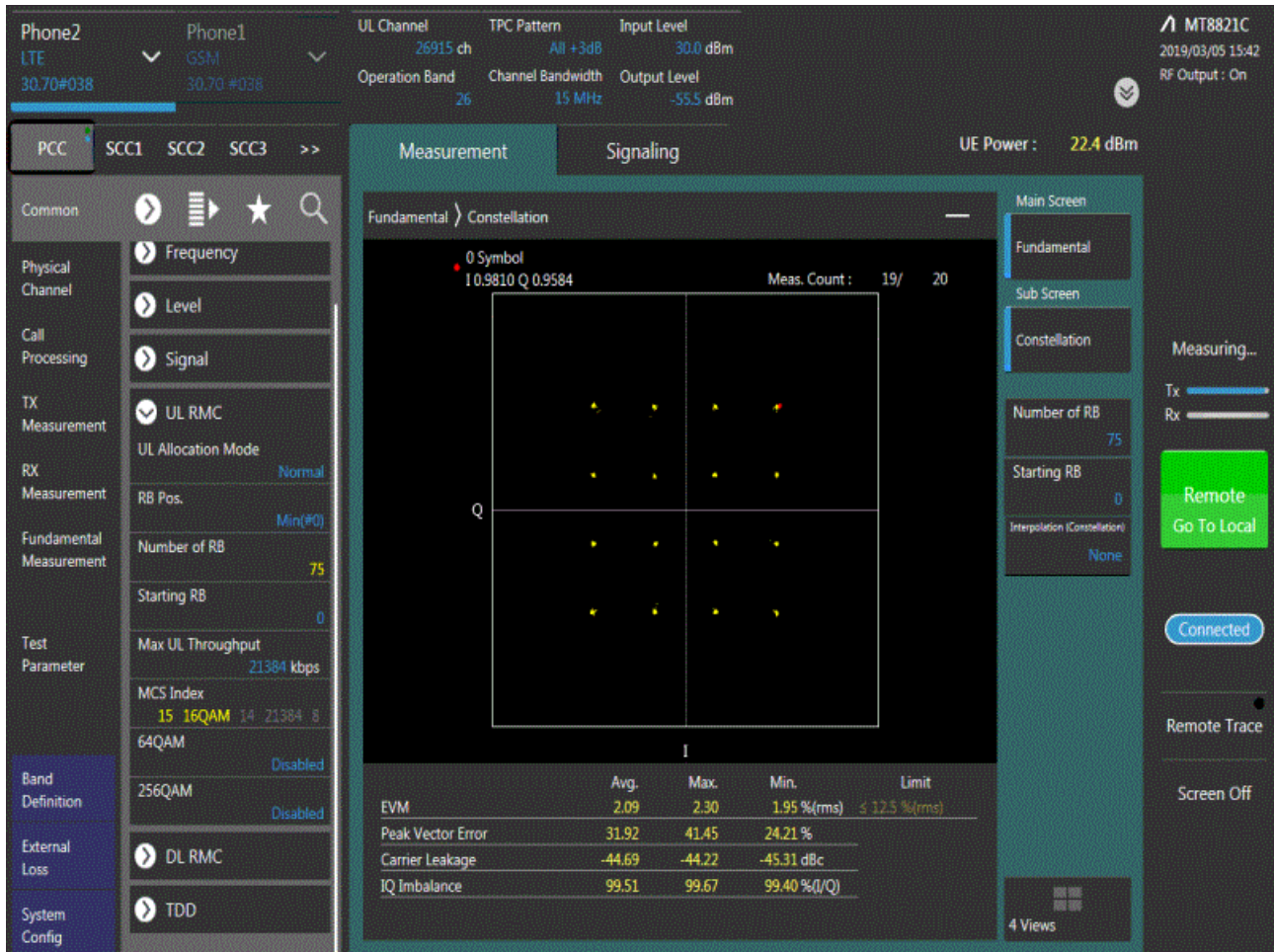
##### 3.1.1. Test Mode = LTE /TM1 15MHz

##### 3.1.1.1. Test Channel = MCH



### 3.1.2. Test Mode = LTE /TM2 15MHz

#### 3.1.2.1. Test Channel = MCH





## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26797	6RB#0	1.103	1.284	PASS
Band26	1.4MHz	QPSK	26915	6RB#0	1.097	1.305	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	1.097	1.302	PASS
Band26	1.4MHz	16QAM	26797	6RB#0	1.097	1.299	PASS
Band26	1.4MHz	16QAM	26915	6RB#0	1.088	1.290	PASS
Band26	1.4MHz	16QAM	27033	6RB#0	1.1	1.308	PASS
Band26	3MHz	QPSK	26805	15RB#0	2.703	2.982	PASS
Band26	3MHz	QPSK	26915	15RB#0	2.691	2.988	PASS
Band26	3MHz	QPSK	27025	15RB#0	2.697	2.976	PASS
Band26	3MHz	16QAM	26805	15RB#0	2.697	2.982	PASS
Band26	3MHz	16QAM	26915	15RB#0	2.697	2.988	PASS
Band26	3MHz	16QAM	27025	15RB#0	2.697	2.982	PASS
Band26	5MHz	QPSK	26815	25RB#0	4.476	4.920	PASS
Band26	5MHz	QPSK	26915	25RB#0	4.486	4.950	PASS
Band26	5MHz	QPSK	27015	25RB#0	4.486	4.920	PASS
Band26	5MHz	16QAM	26815	25RB#0	4.476	4.980	PASS
Band26	5MHz	16QAM	26915	25RB#0	4.486	4.940	PASS
Band26	5MHz	16QAM	27015	25RB#0	4.466	4.870	PASS
Band26	10MHz	QPSK	26840	50RB#0	8.951	9.680	PASS
Band26	10MHz	QPSK	26915	50RB#0	8.911	9.700	PASS
Band26	10MHz	QPSK	26990	50RB#0	8.911	9.640	PASS
Band26	10MHz	16QAM	26840	50RB#0	8.931	9.740	PASS
Band26	10MHz	16QAM	26915	50RB#0	8.911	9.700	PASS
Band26	10MHz	16QAM	26990	50RB#0	8.911	9.700	PASS
Band26	15MHz	QPSK	26865	75RB#0	13.427	14.760	PASS
Band26	15MHz	QPSK	26915	75RB#0	13.397	14.730	PASS
Band26	15MHz	QPSK	26965	75RB#0	13.427	14.880	PASS
Band26	15MHz	16QAM	26865	75RB#0	13.427	14.790	PASS
Band26	15MHz	16QAM	26915	75RB#0	13.427	14.730	PASS
Band26	15MHz	16QAM	26965	75RB#0	13.457	14.700	PASS



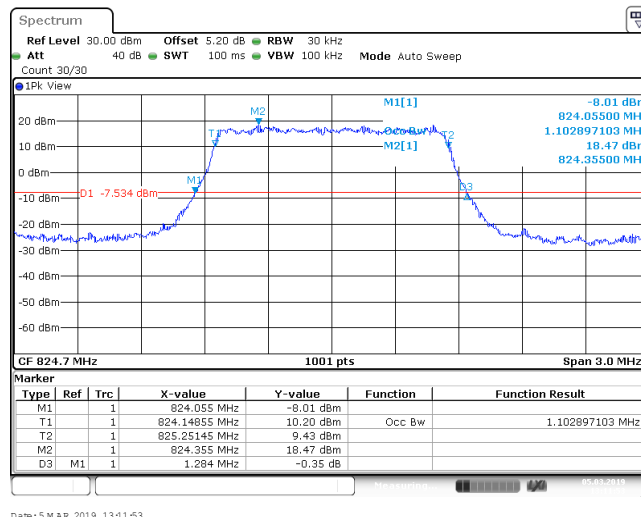
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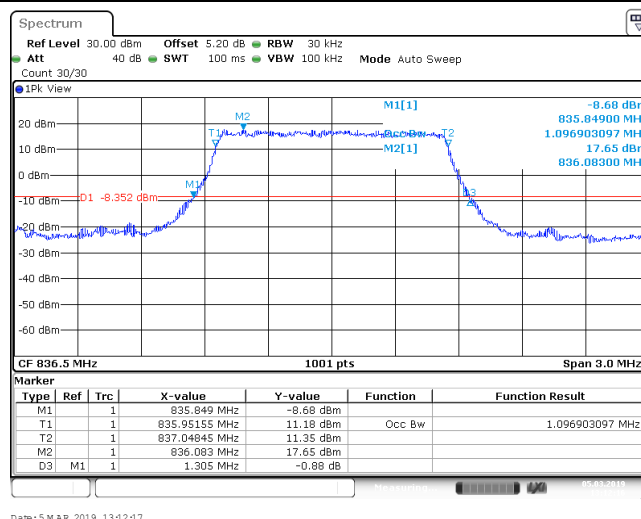


## 4.2. Test Plots

Band26\_1.4MHz\_QPSK\_26797\_6RB#0



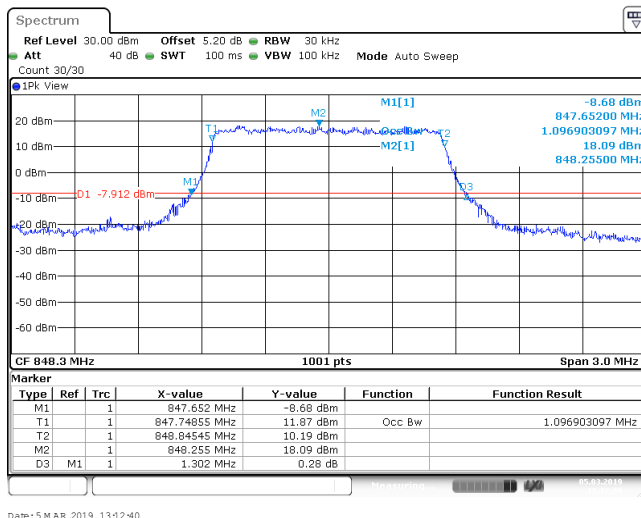
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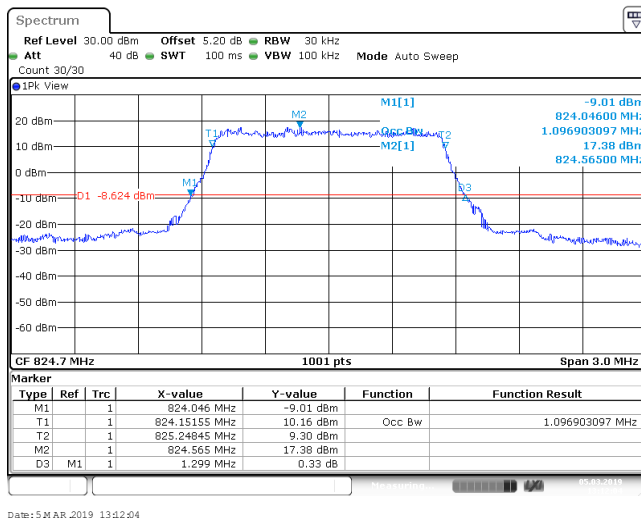
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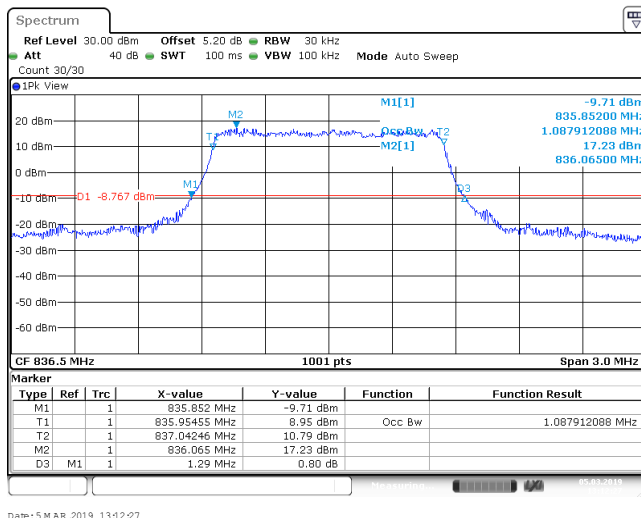


## Band26\_1.4MHz\_16QAM\_26797\_6RB#0

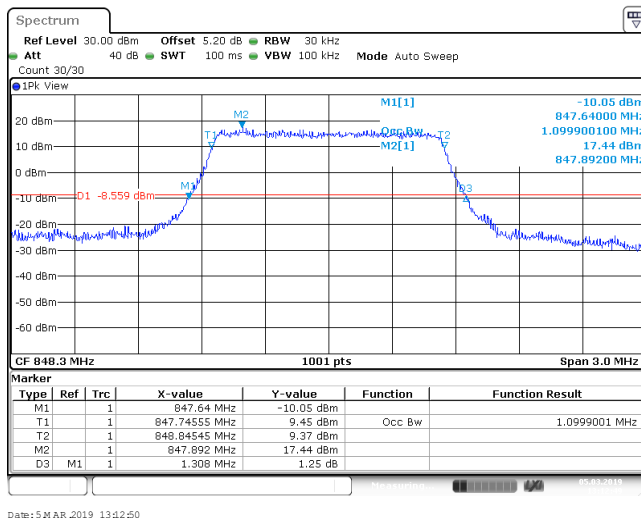


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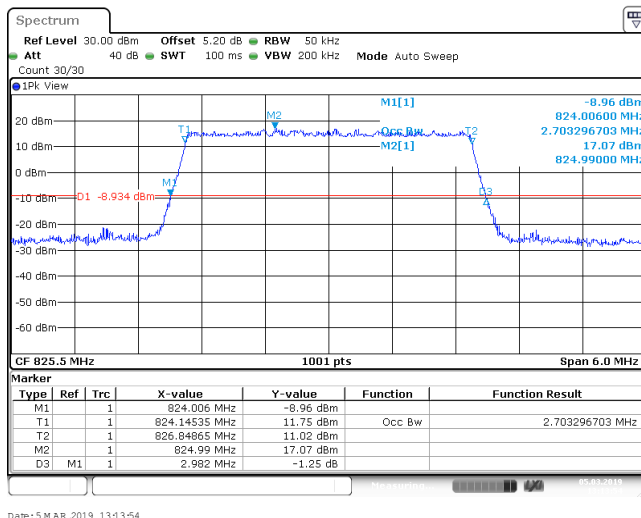


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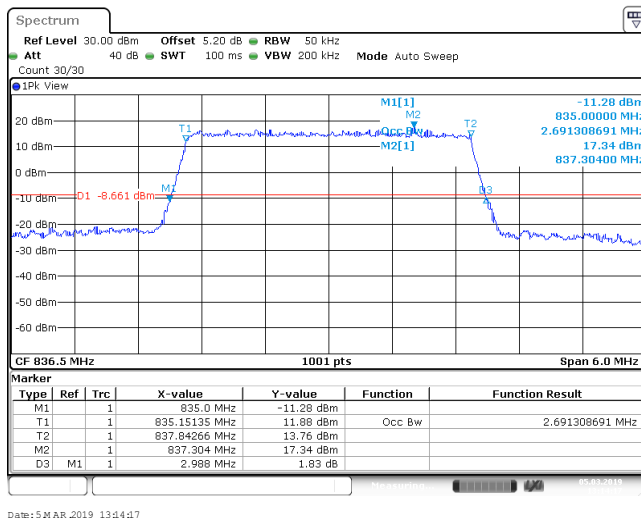


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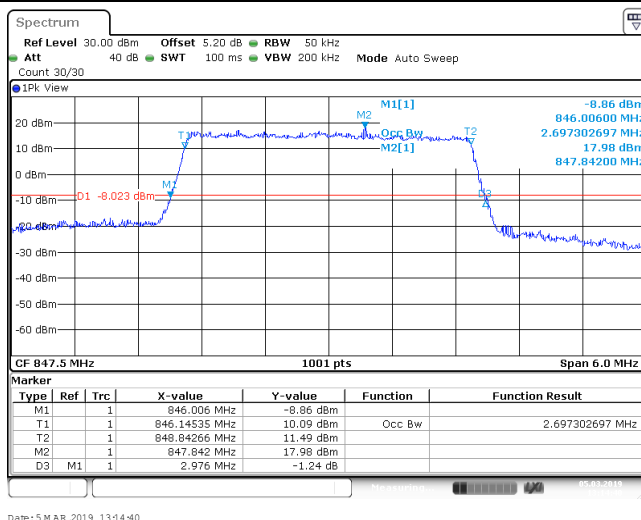


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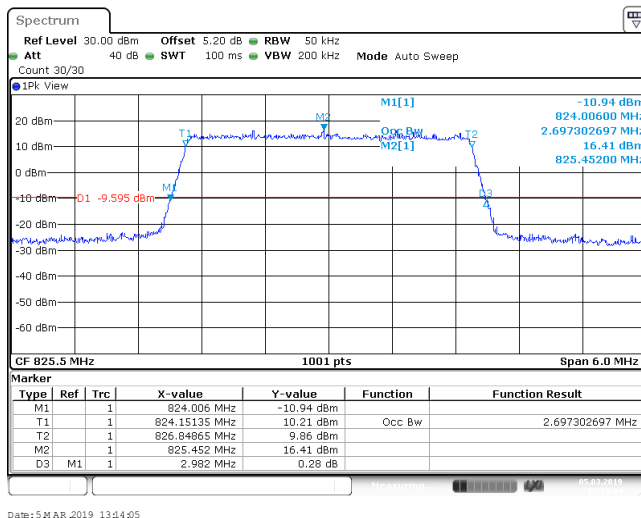


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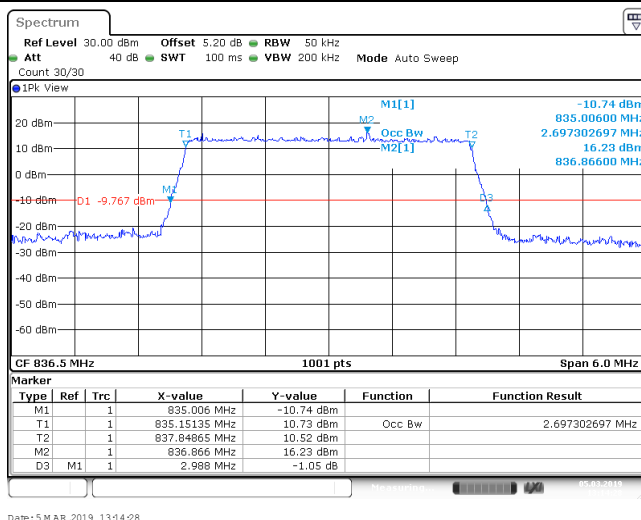
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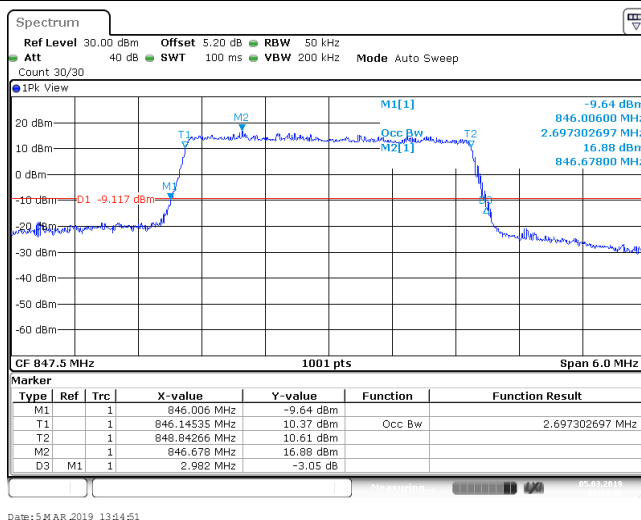
## Band26\_3MHz\_16QAM\_26915\_15RB#0





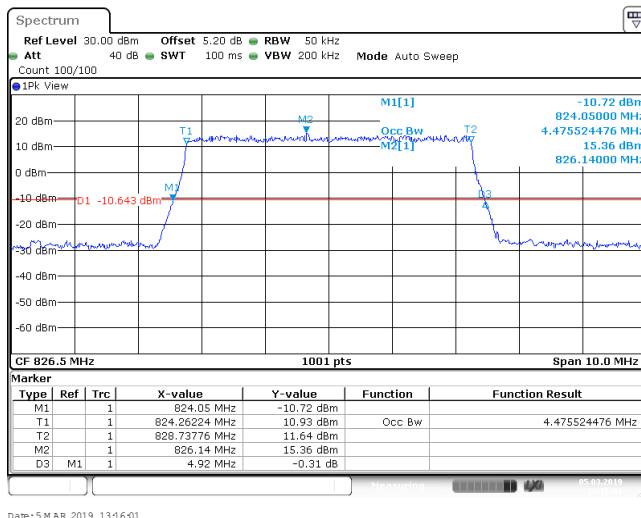


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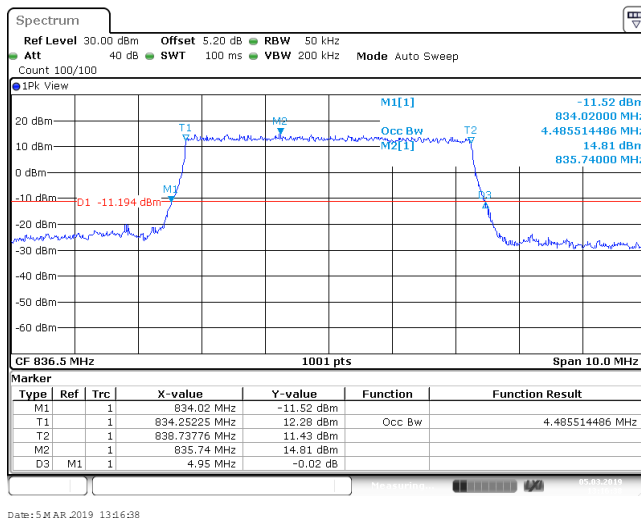


## Band26\_5MHz\_QPSK\_26815\_25RB#0



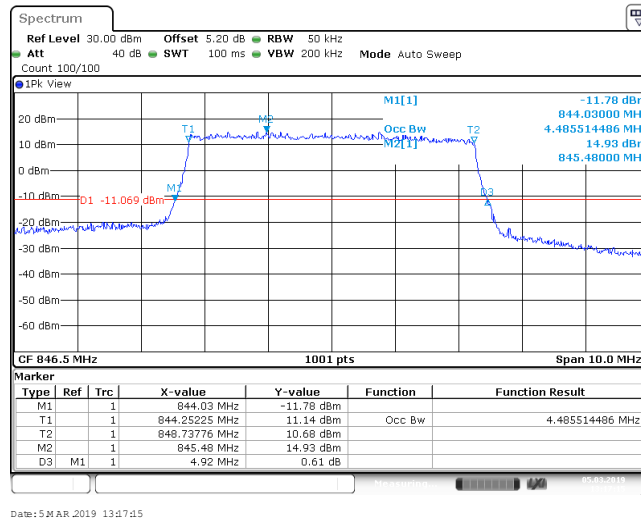


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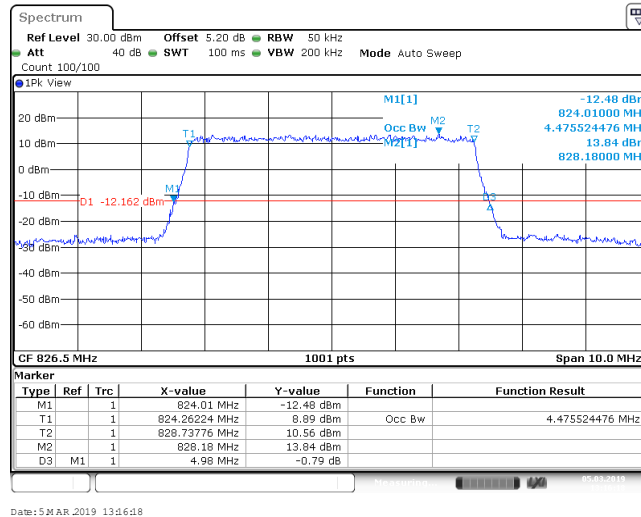


## Band26\_5MHz\_QPSK\_27015\_25RB#0





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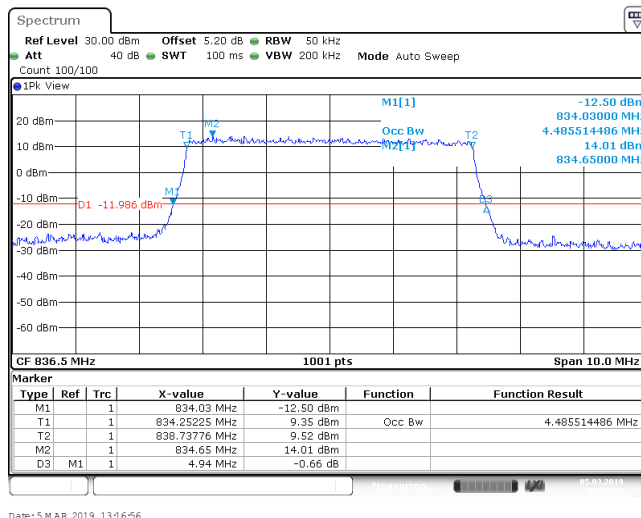


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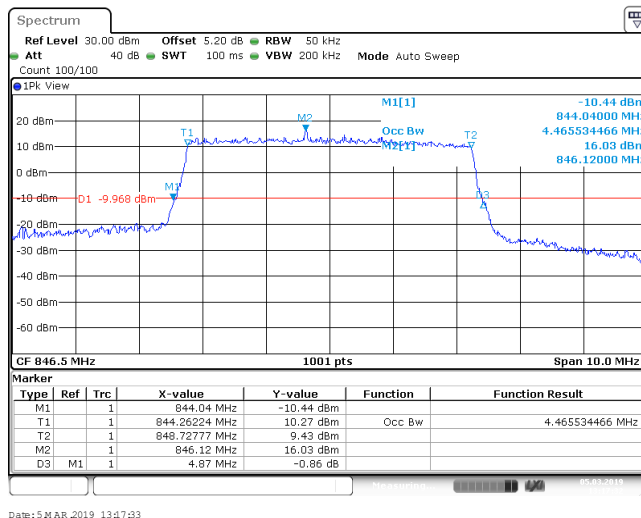


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## Band26\_5MHz\_16QAM\_27015\_25RB#0



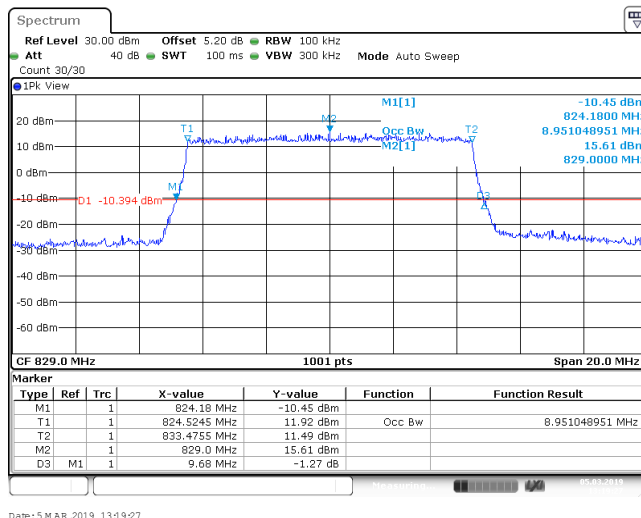
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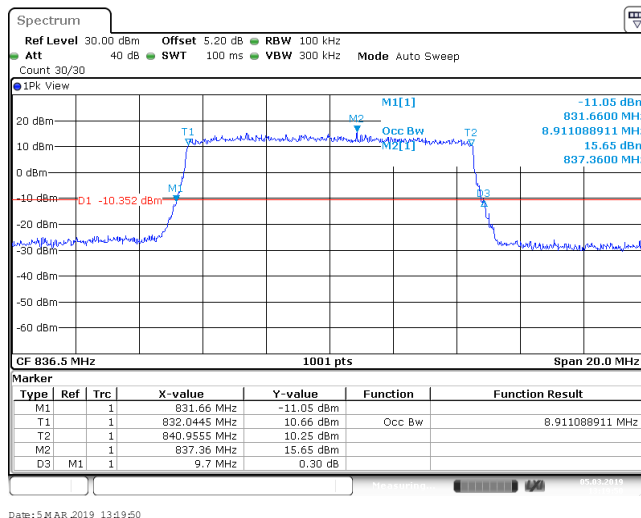
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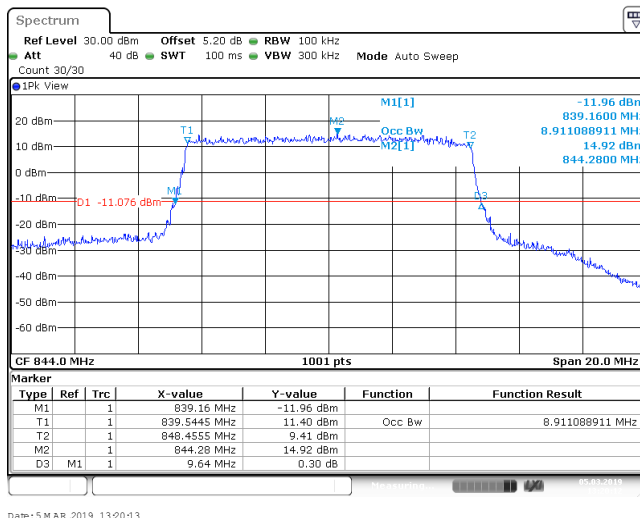


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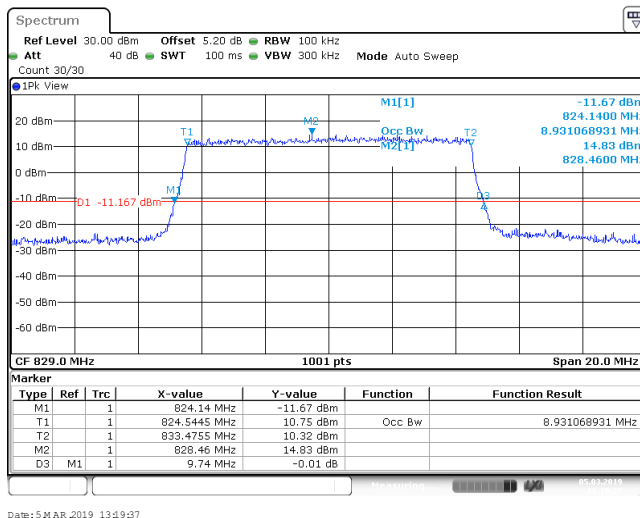


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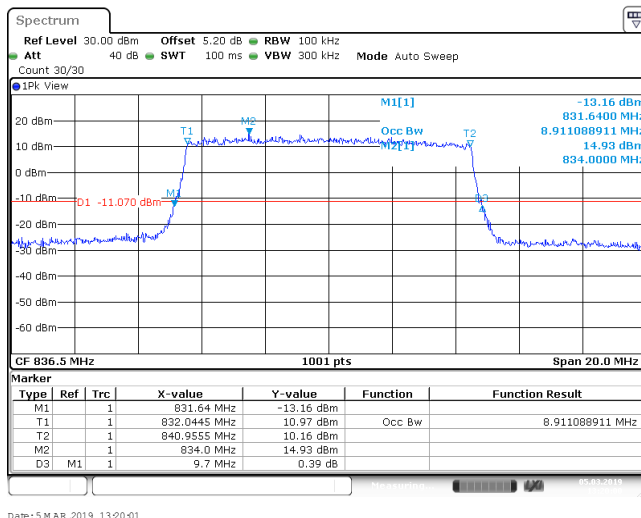


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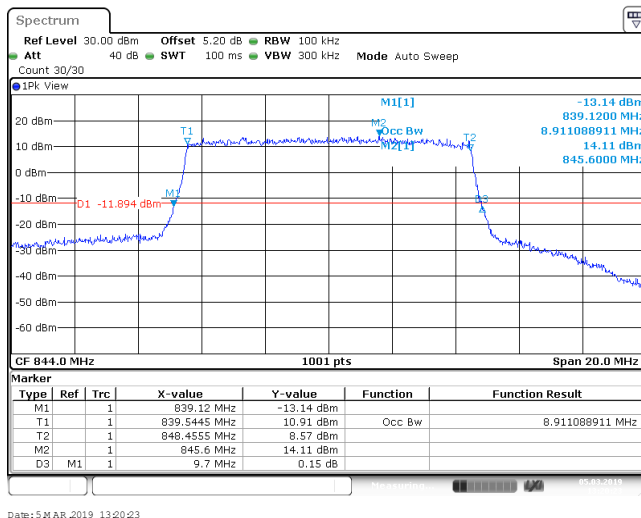
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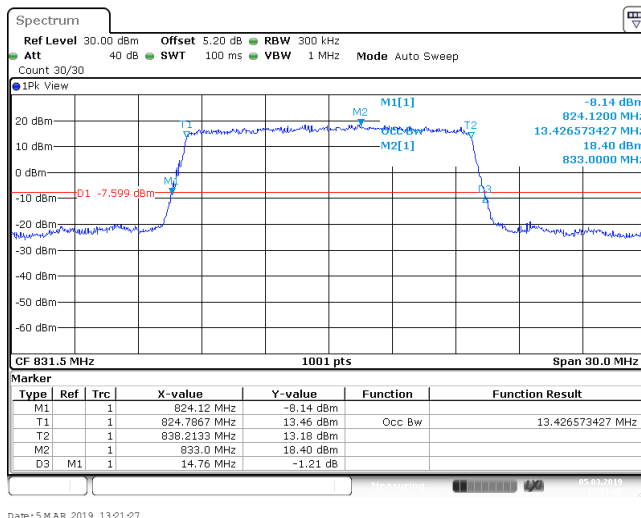
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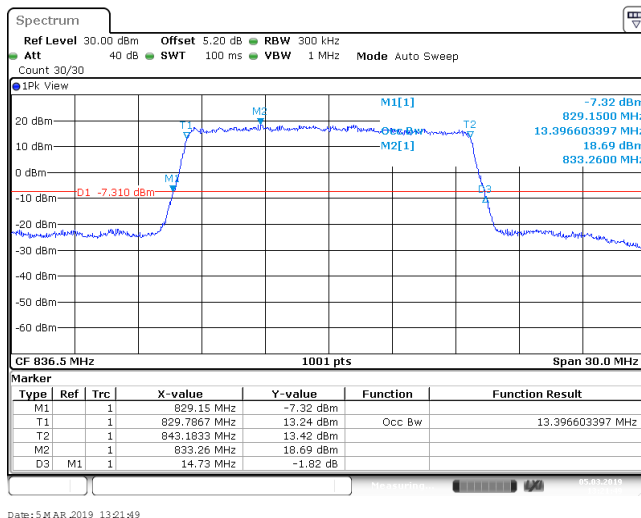
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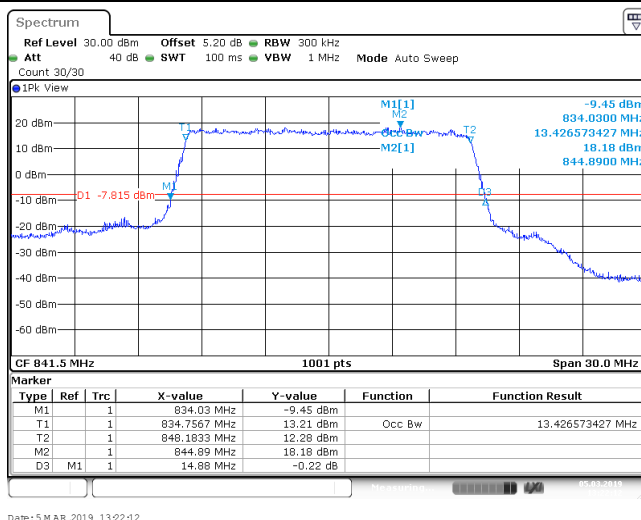
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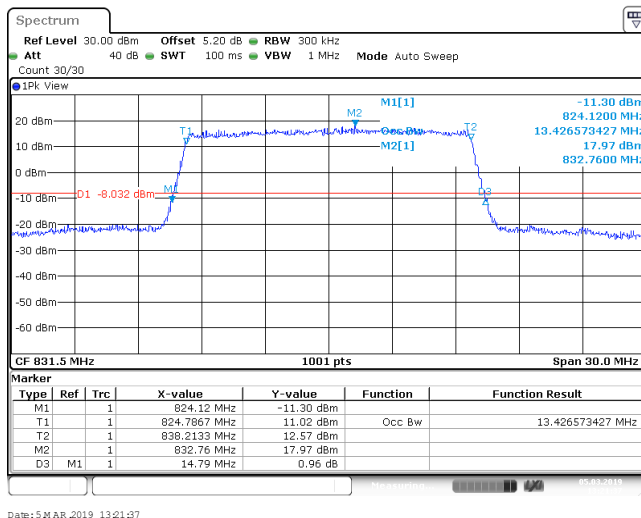
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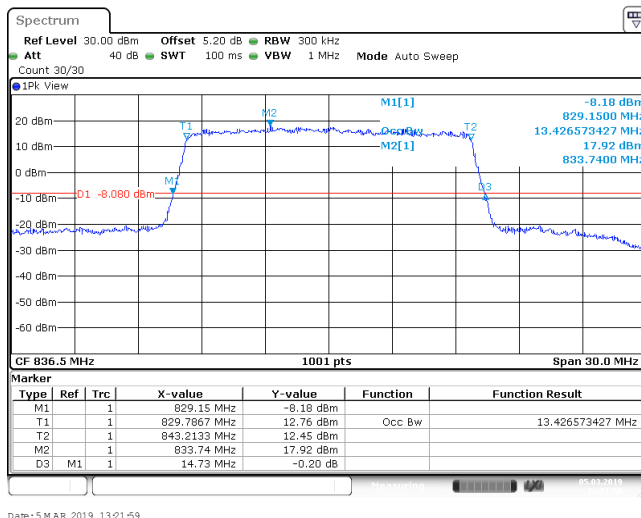


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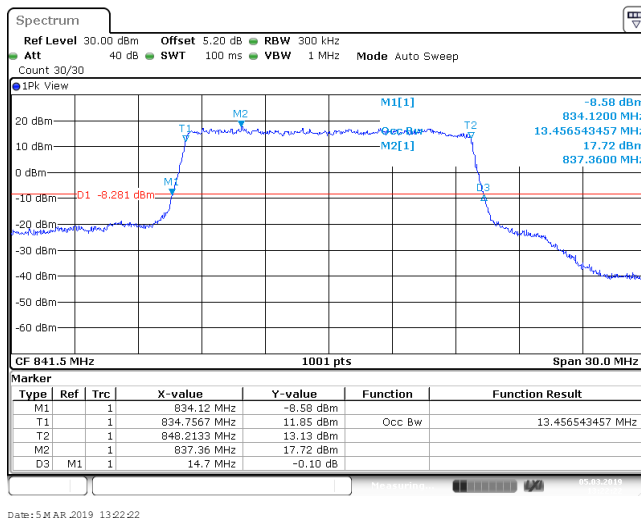


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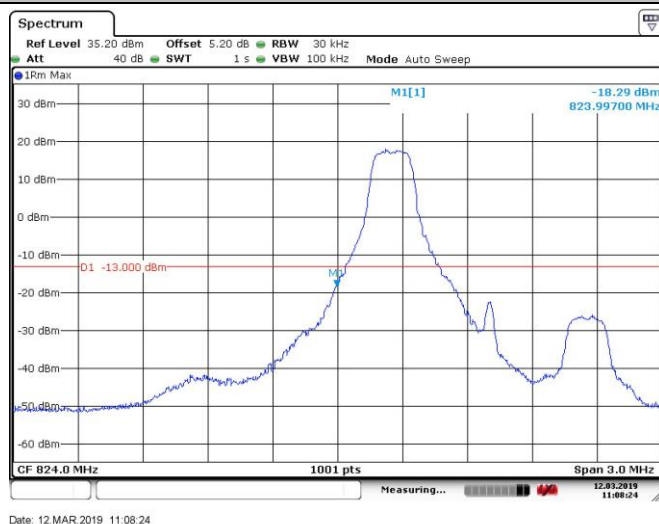
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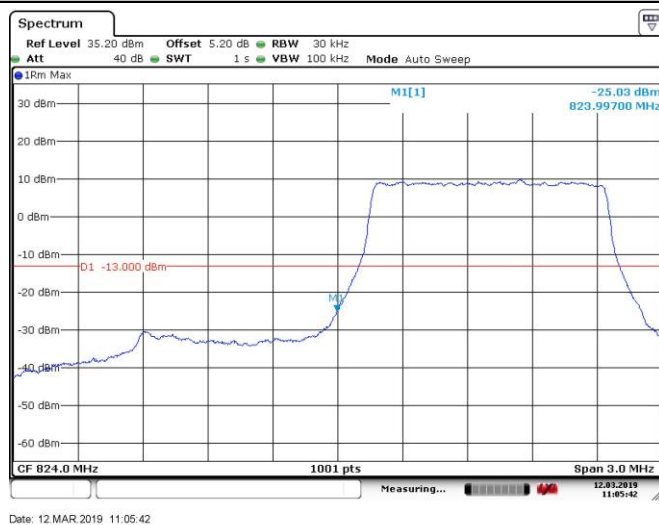
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Band26\_1.4MHz\_QPSK\_26797\_1RB#0

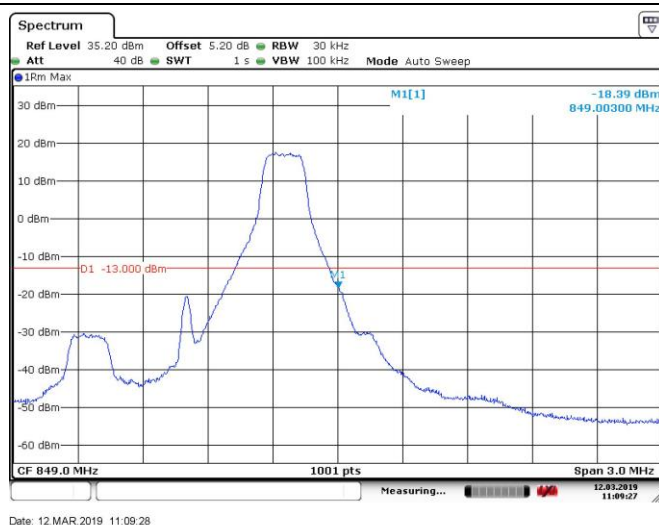


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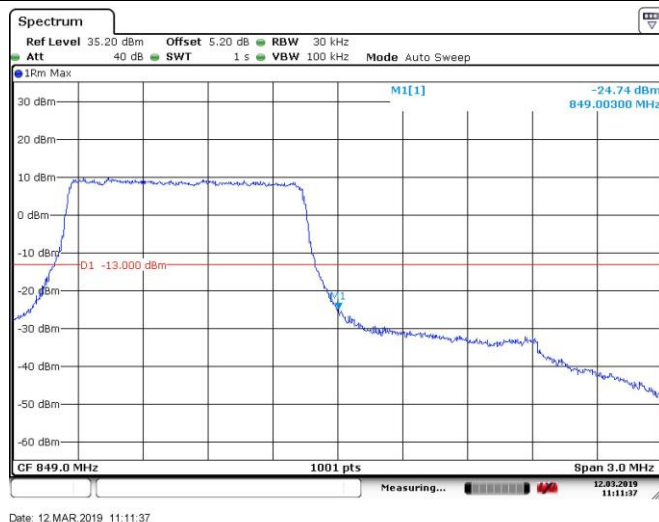


Band26\_1.4MHz\_QPSK\_27033\_1RB#5





Band26 1.4MHz QPSK 27033 6RB#0



Band26\_1.4MHz\_16QAM\_26797\_1RB#0



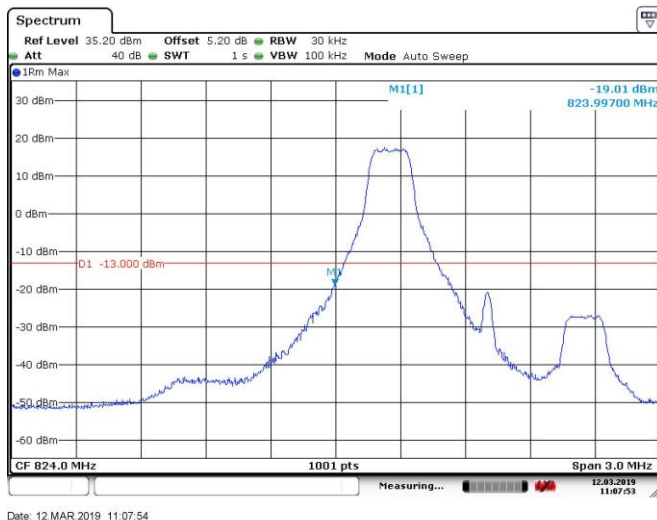
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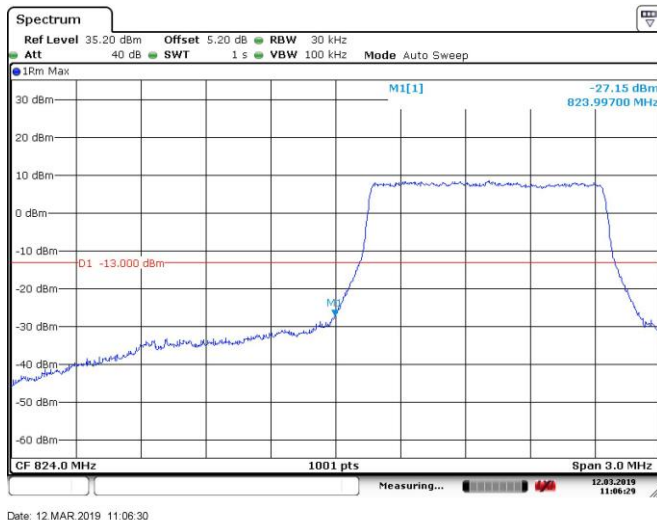
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**Band26\_1.4MHz\_16QAM\_26797\_6RB#0**



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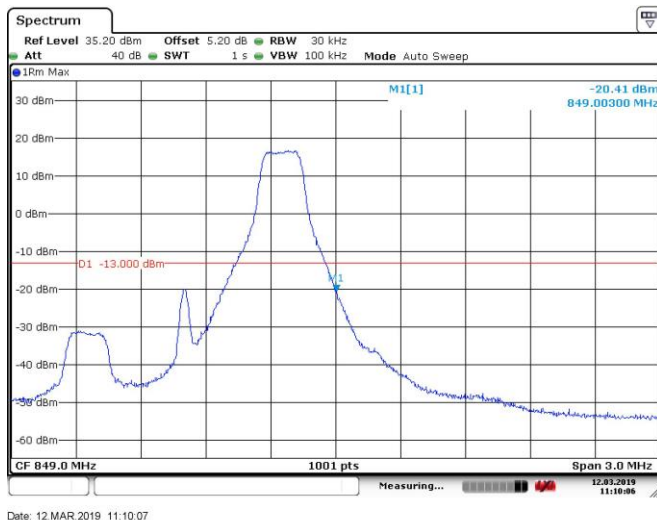
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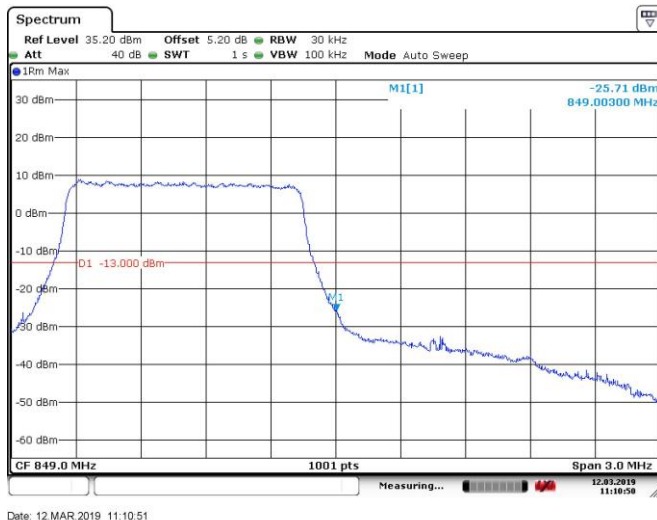
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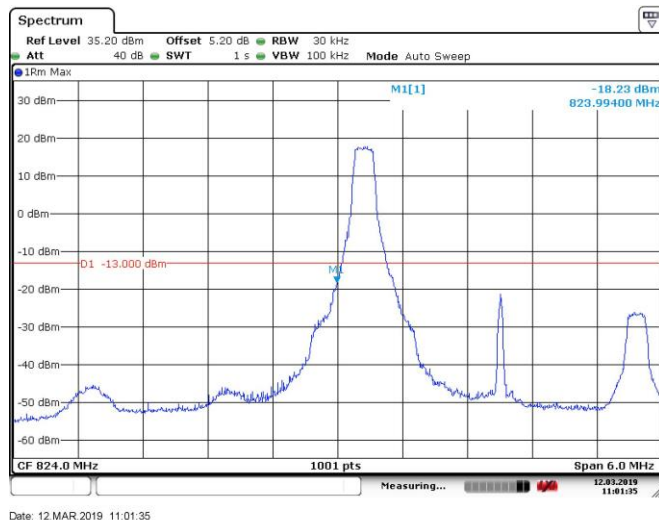


**Band26\_3MHz\_QPSK\_26805\_1RB#0**

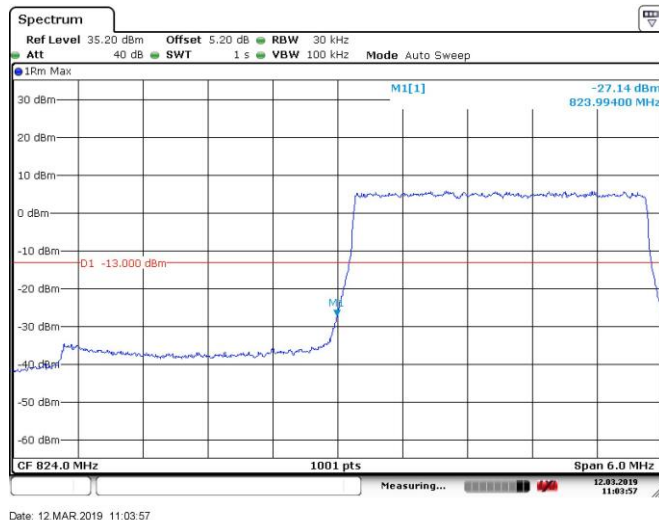


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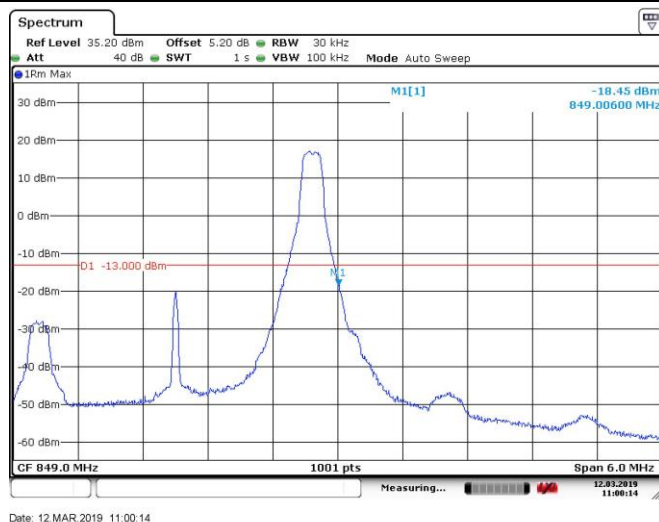


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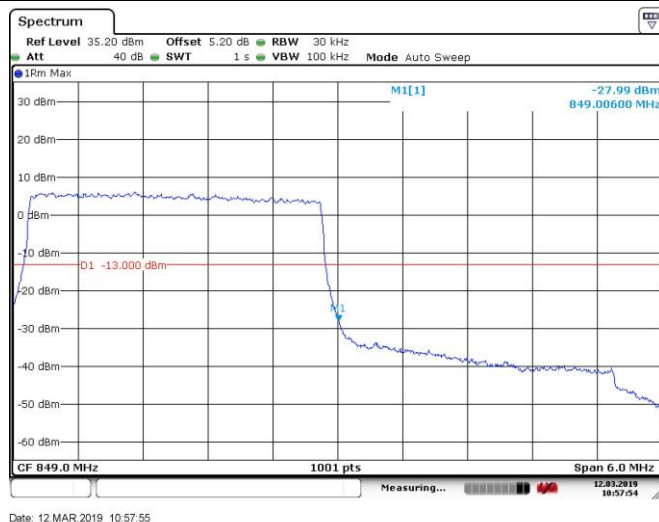


Band26\_3MHz\_QPSK\_27025\_1RB#14





Band26 3MHz QPSK 27025 15RB#0



Band26\_3MHz\_16QAM\_26805\_1RB#0



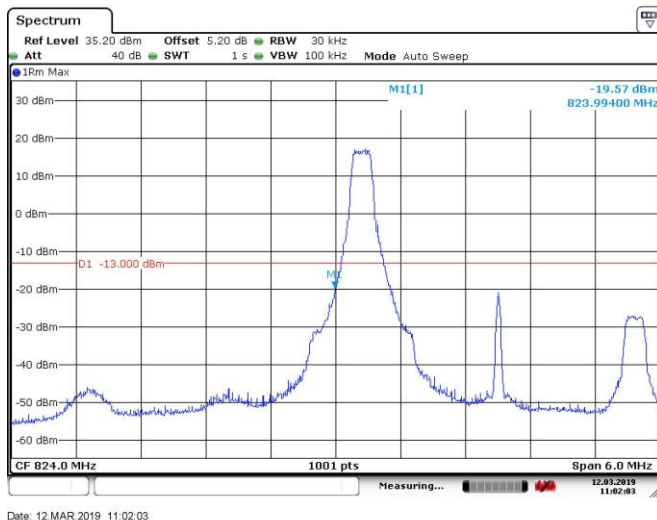
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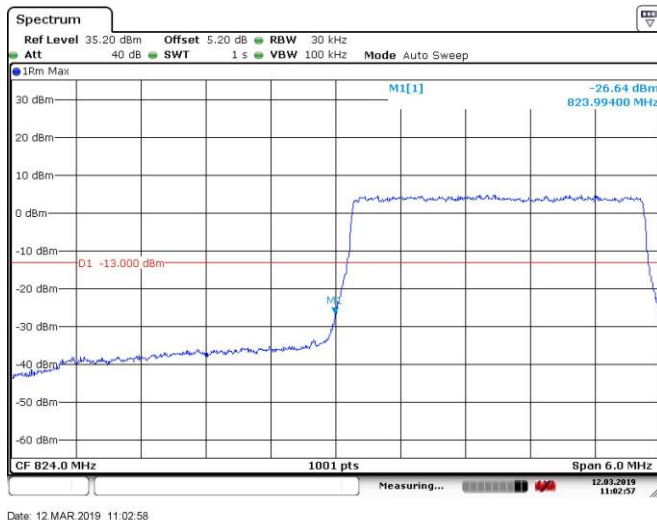
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**Band26\_3MHz\_16QAM\_26805\_15RB#0**



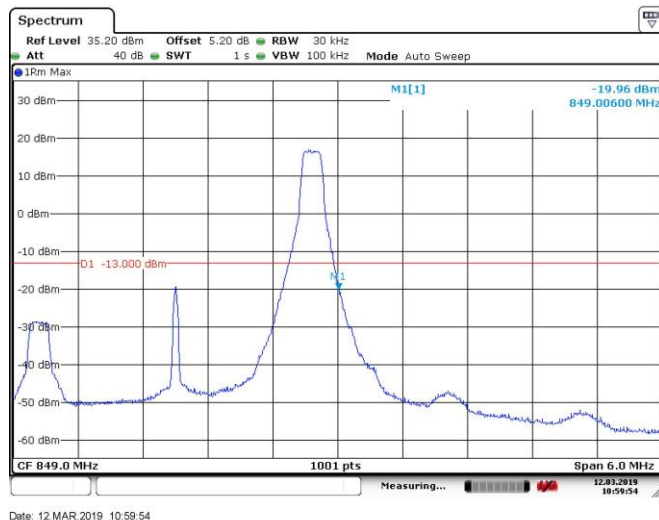
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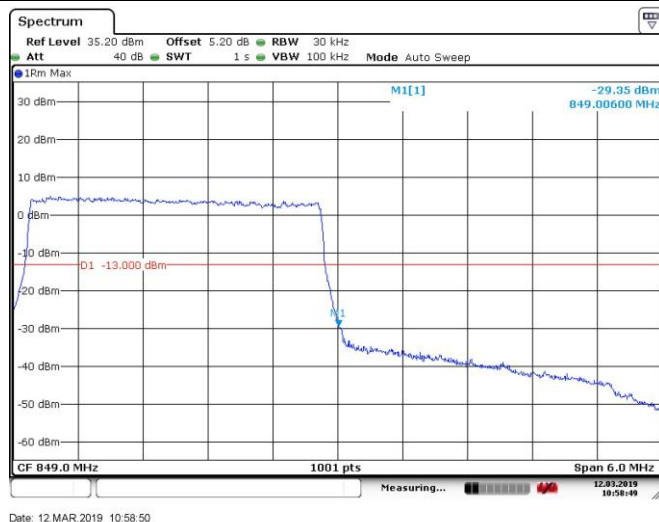
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**Band26\_3MHz\_16QAM\_27025\_15RB#0**



**Band26\_5MHz\_QPSK\_26815\_1RB#0**

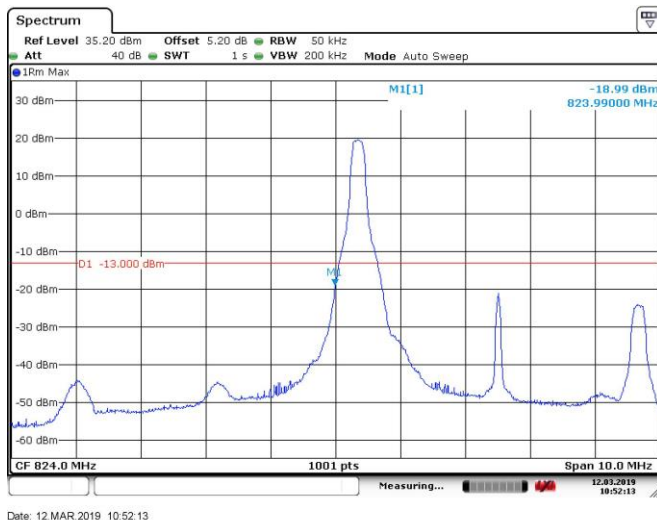


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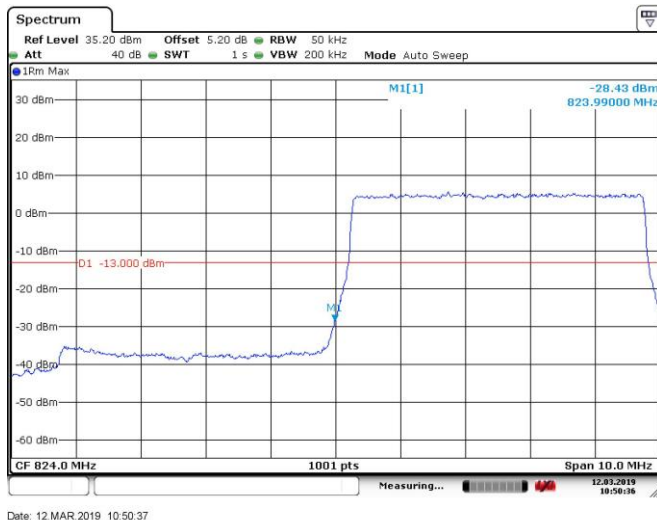
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**Band26\_5MHz\_QPSK\_26815\_25RB#0**



**Band26\_5MHz\_QPSK\_27015\_1RB#24**

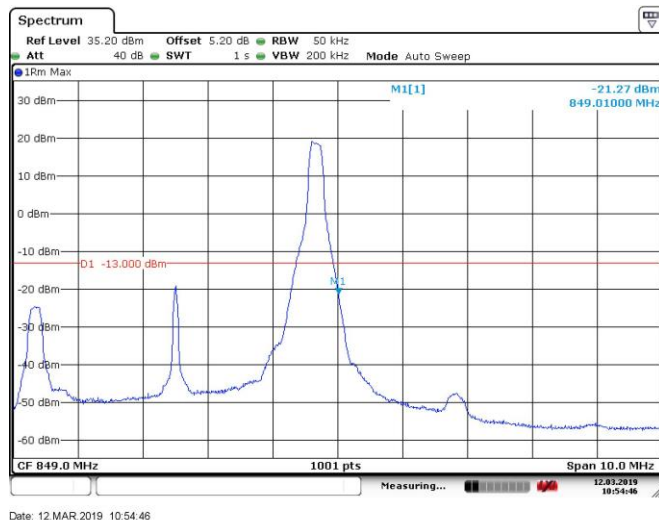


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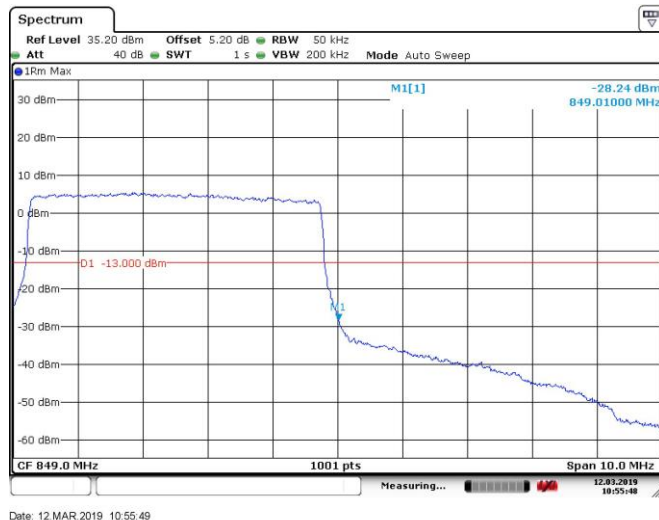
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**Band26\_5MHz\_QPSK\_27015\_25RB#0**



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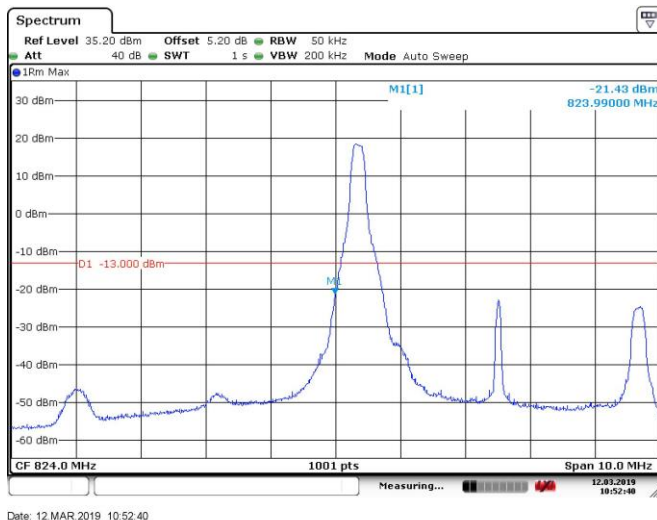


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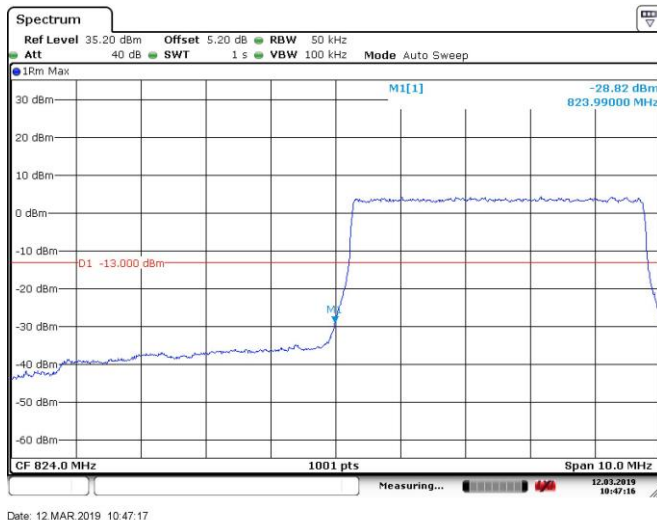
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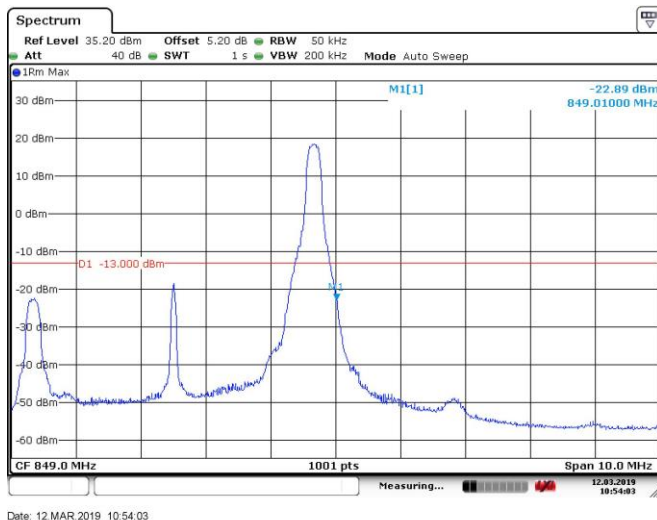


**Band26\_5MHz\_16QAM\_27015\_1RB#24**

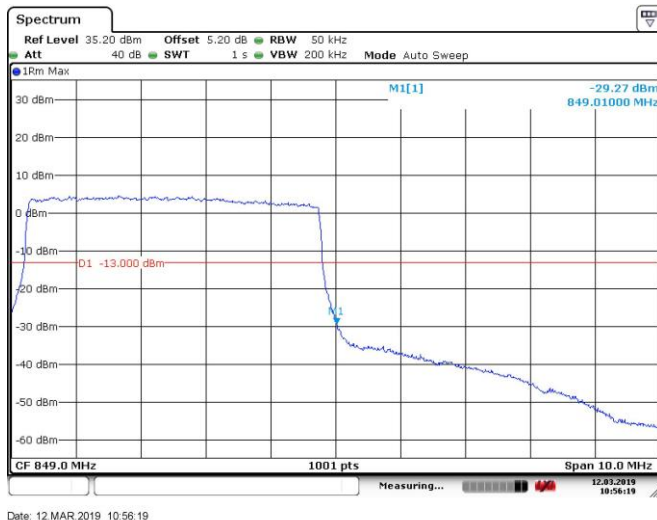


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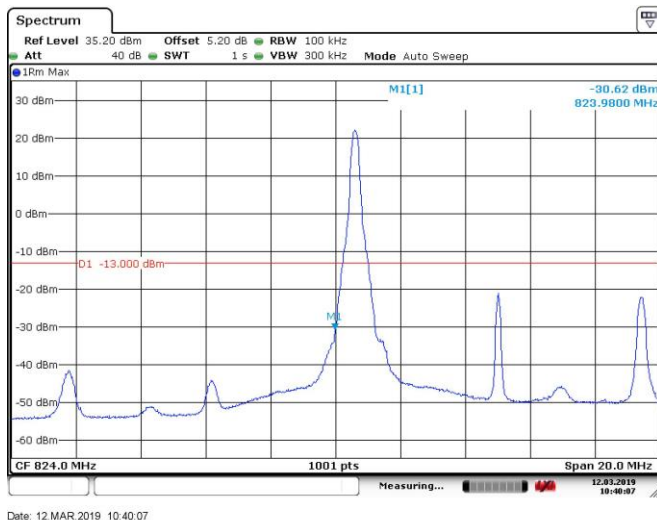


**Band26\_5MHz\_16QAM\_27015\_25RB#0**

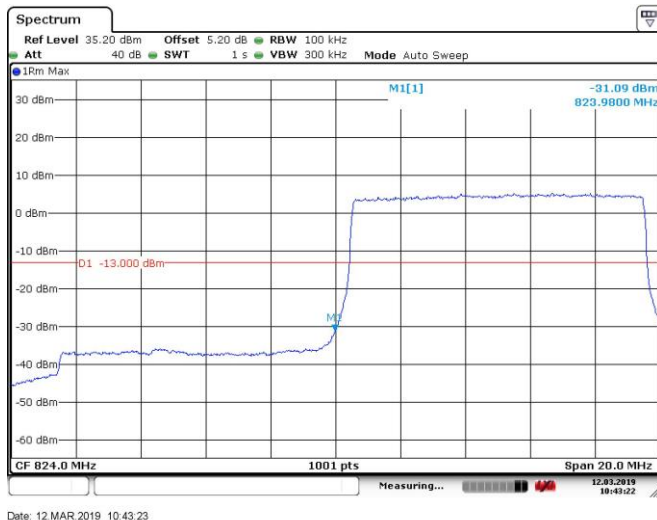


**Band26\_10MHz\_QPSK\_26840\_1RB#0**





**Band26\_10MHz\_QPSK\_26840\_50RB#0**



**Band26\_10MHz\_QPSK\_26990\_1RB#49**

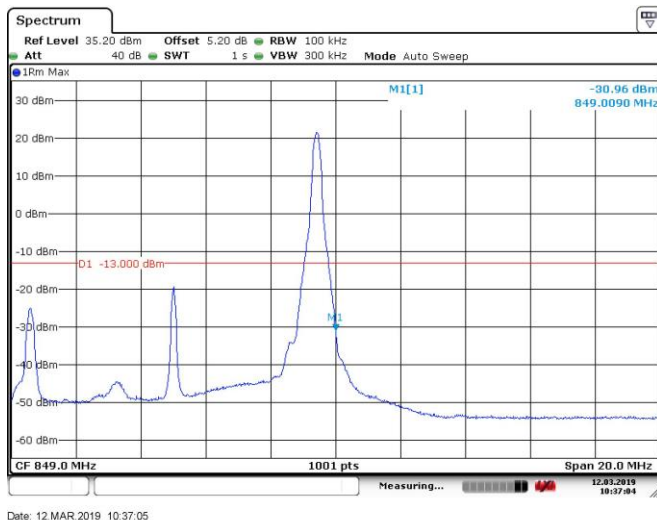


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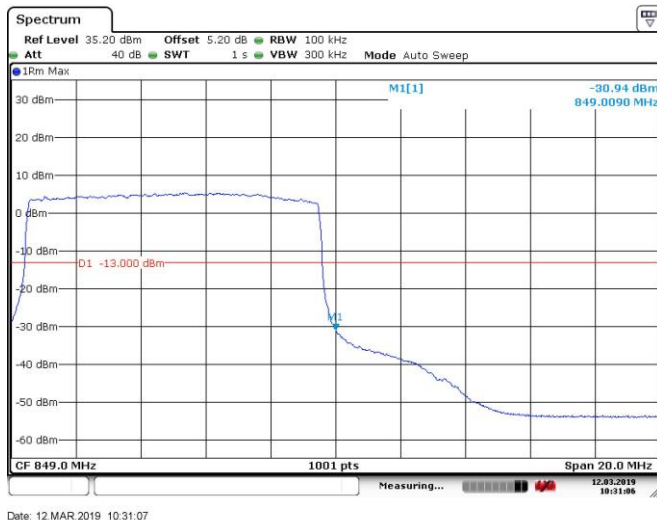
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Date: 12 MAR 2019 10:37:05

### Band26\_10MHz\_QPSK\_26990\_50RB#0

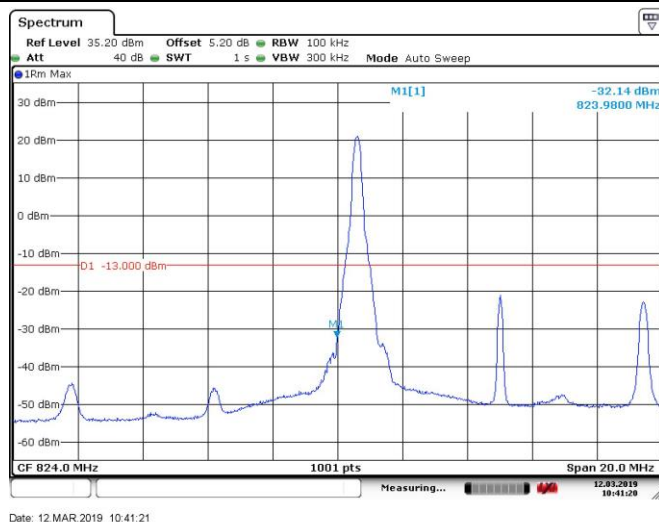


Date: 12 MAR 2019 10:31:07

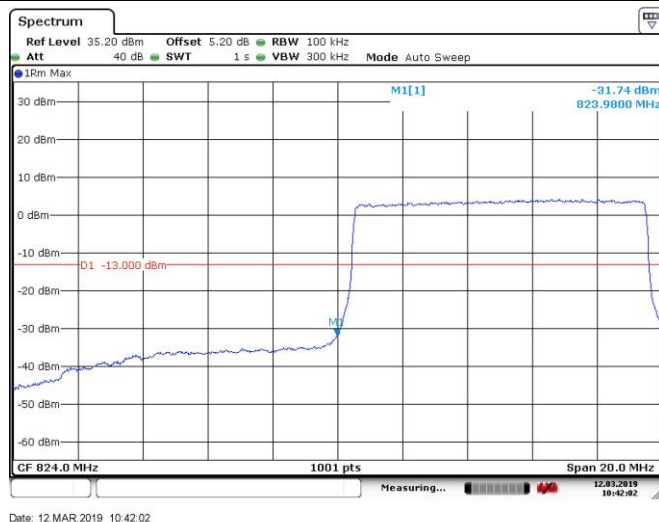
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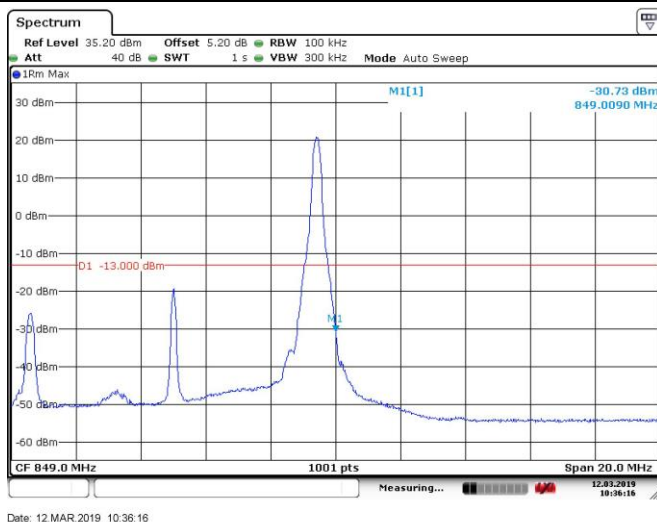


Band26\_10MHz\_16QAM\_26840\_50RB#0

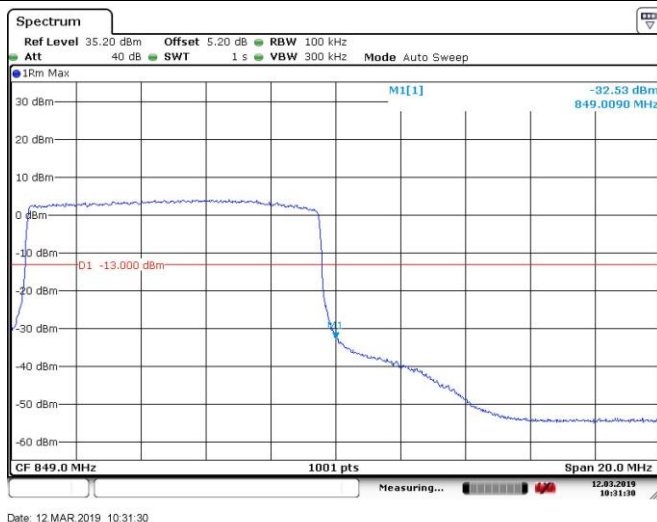


Band26\_10MHz\_16QAM\_26990\_1RB#49



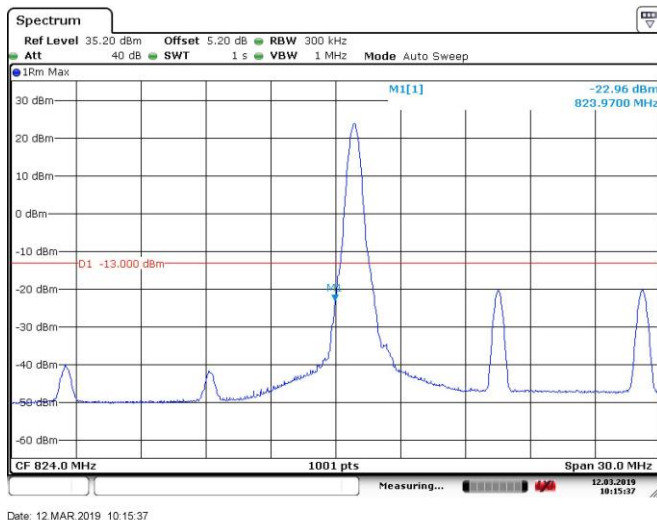


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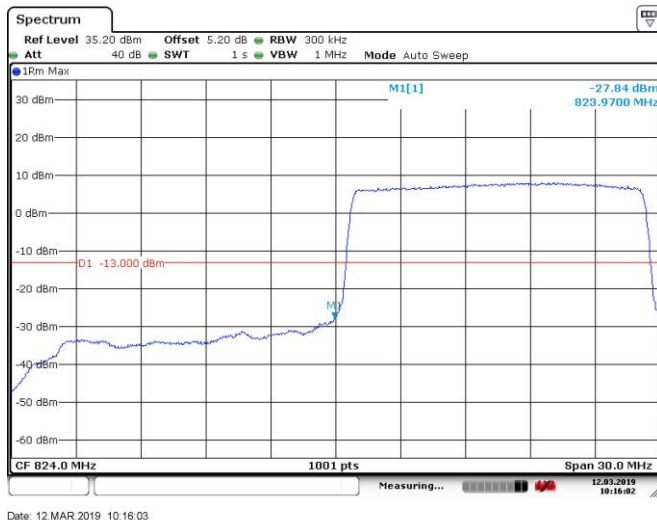


Band26\_15MHz\_QPSK\_26865\_1RB#0





**Band26\_15MHz\_QPSK\_26865\_75RB#0**

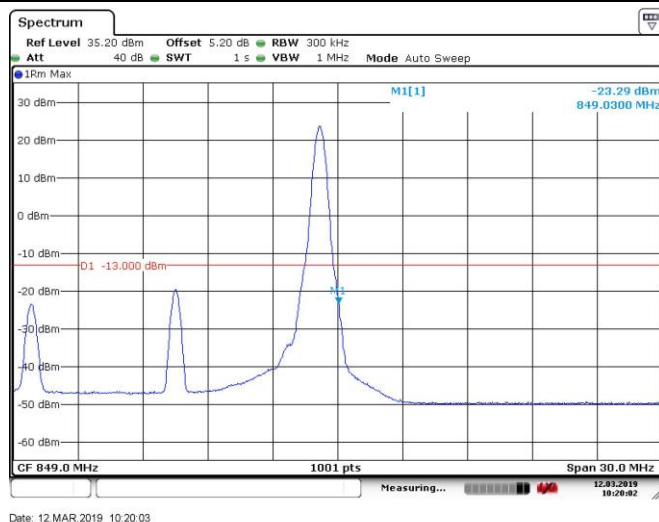


**Band26\_15MHz\_QPSK\_26965\_1RB#74**

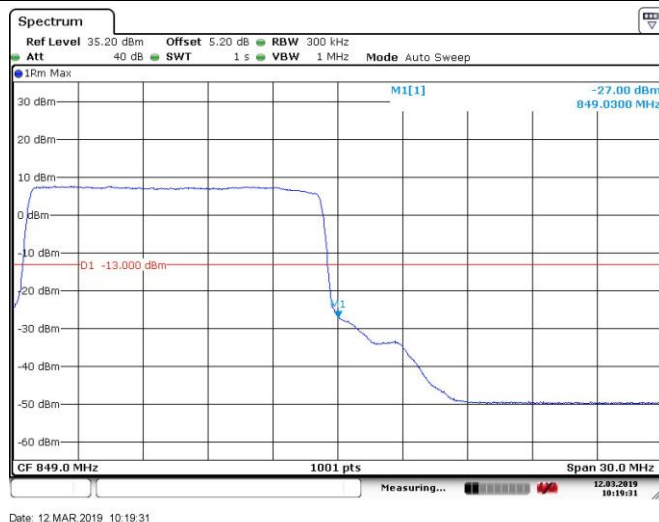


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**Band26\_15MHz\_QPSK\_26965\_75RB#0**



**Band26\_15MHz\_16QAM\_26865\_1RB#0**

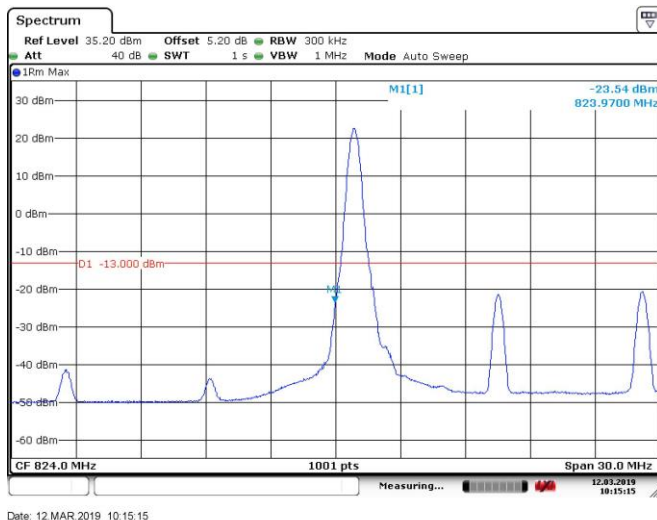


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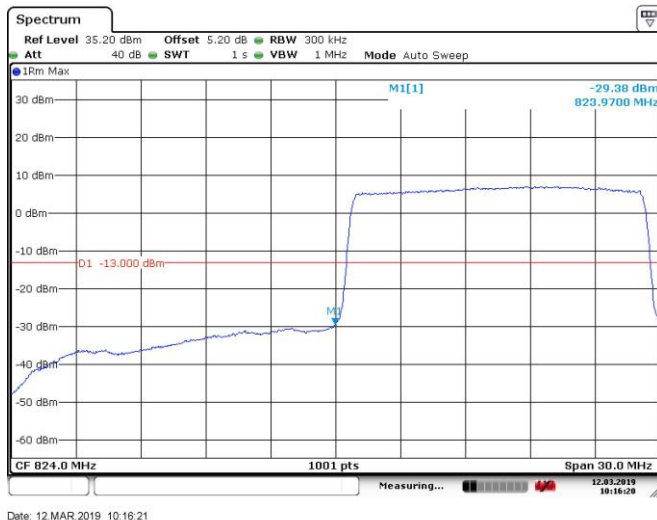
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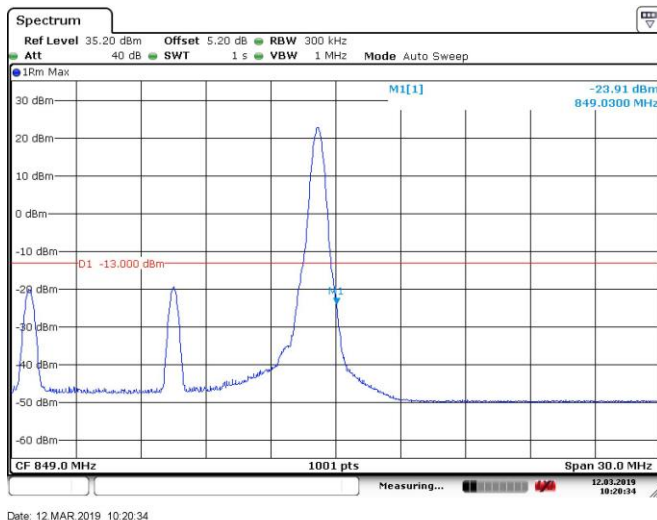


Band26\_15MHz\_16QAM\_26865\_75RB#0

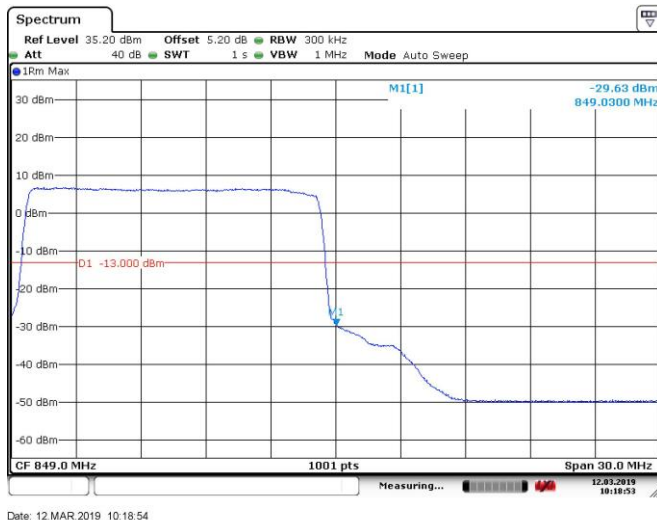


Band26\_15MHz\_16QAM\_26965\_1RB#74





**Band26\_15MHz\_16QAM\_26965\_75RB#0**



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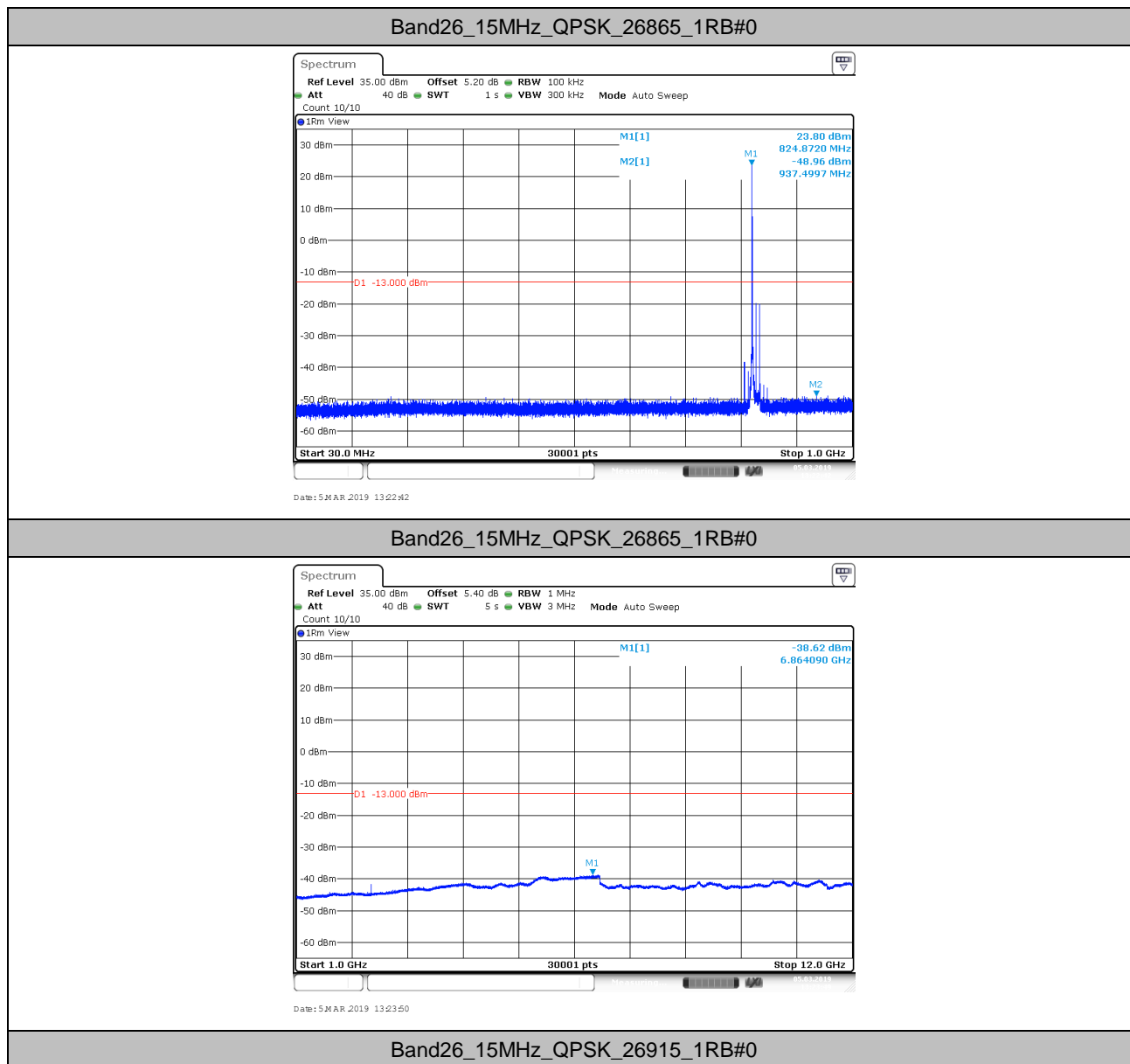


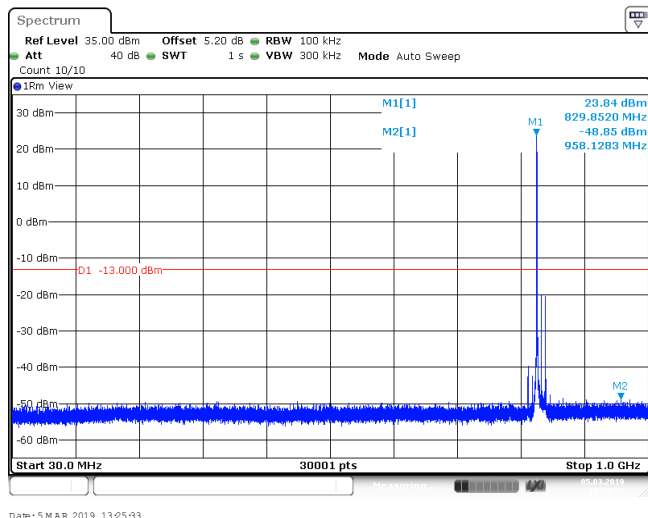
## 6. Spurious Emission at Antenna Terminal

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 =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

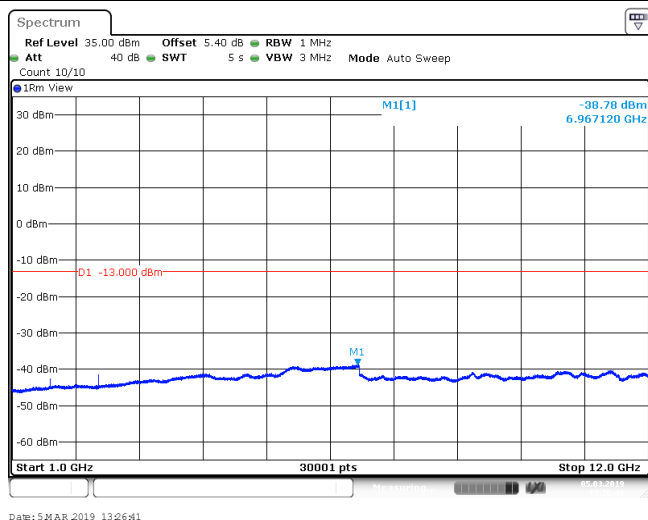
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots





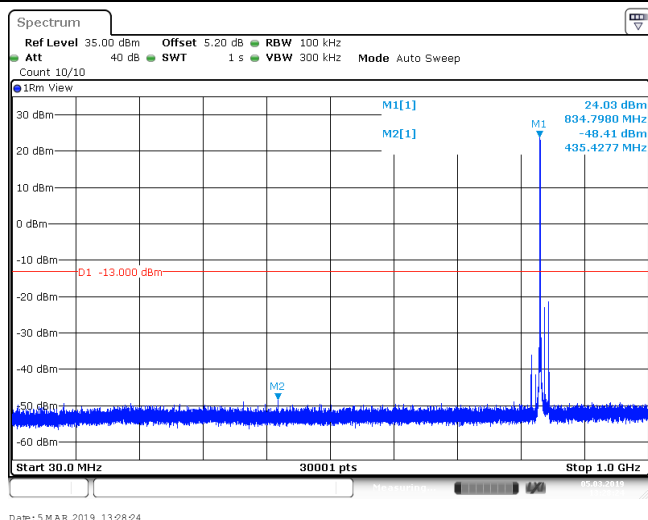
Band26\_15MHz\_QPSK\_26915\_1RB#0



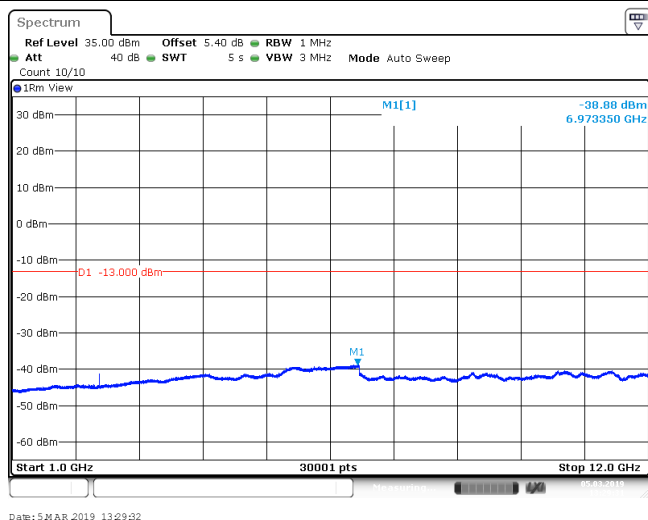
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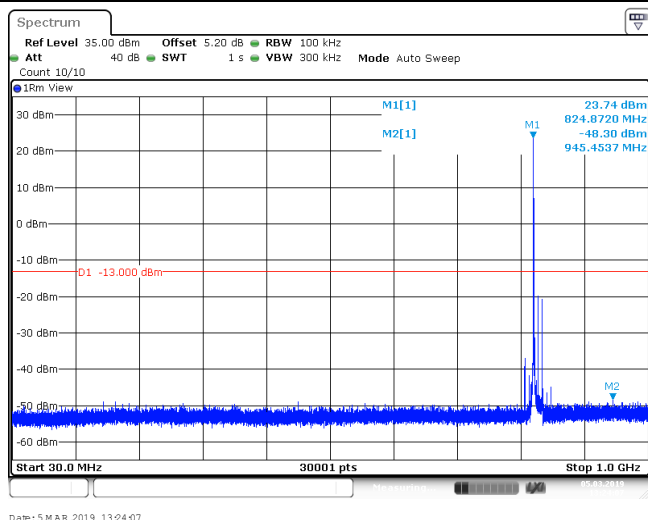


Band26\_15MHz\_QPSK\_26965\_1RB#0

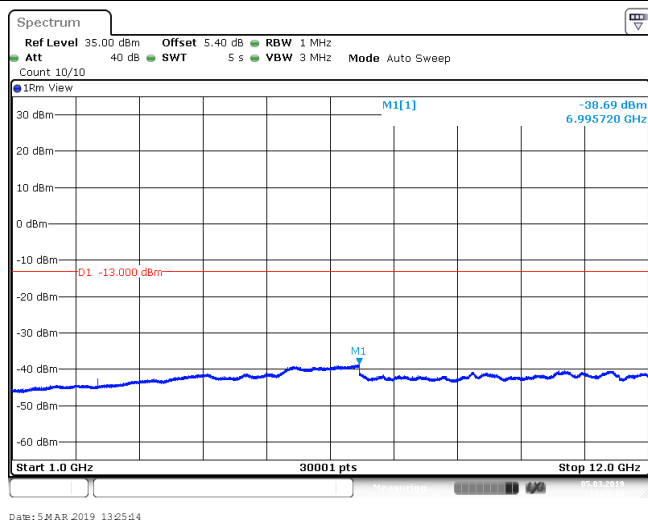


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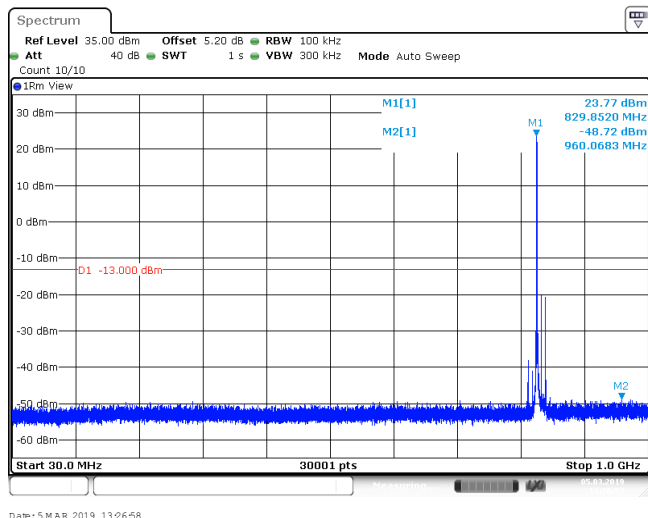


Band26\_15MHz\_16QAM\_26865\_1RB#0

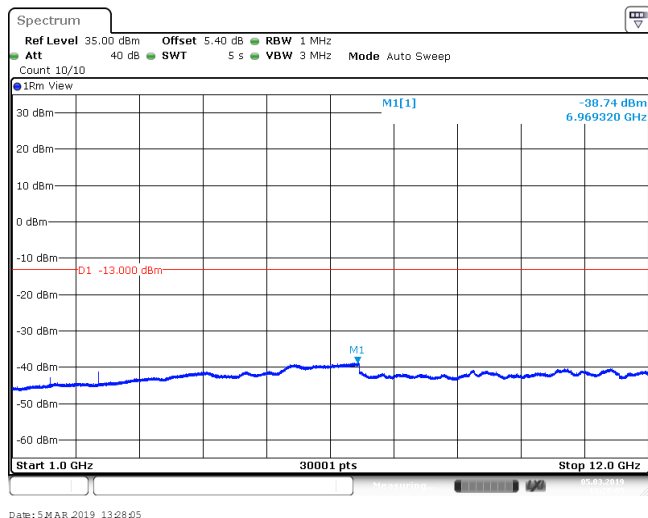


Band26\_15MHz\_16QAM\_26915\_1RB#0





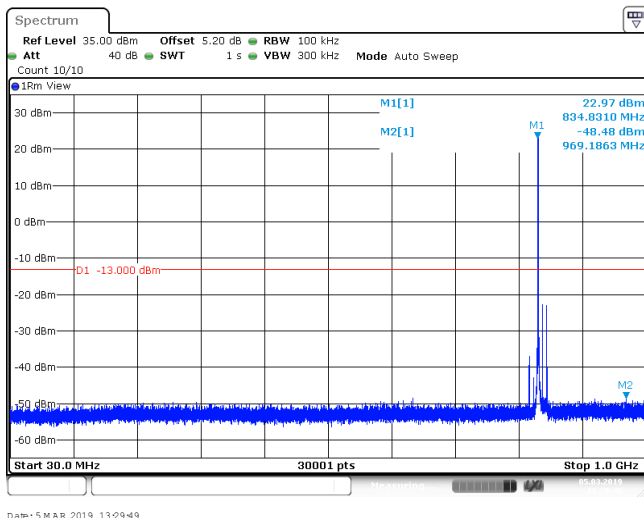
Band26\_15MHz\_16QAM\_26915\_1RB#0



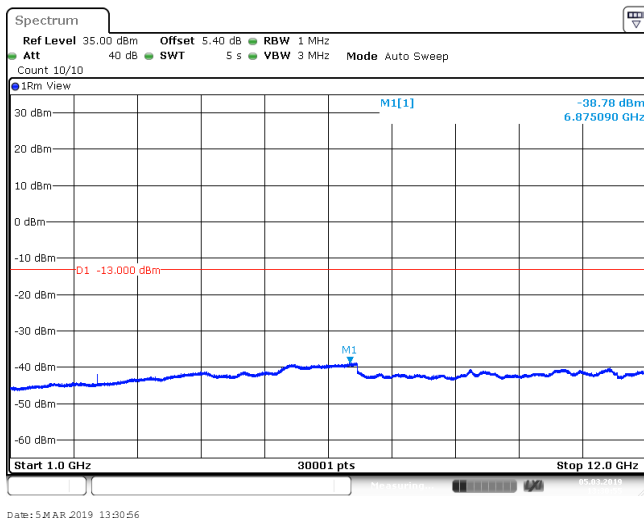
Band26\_15MHz\_16QAM\_26965\_1RB#0



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## 7. Field Strength of Spurious Radiation

### 7.1. Test BAND = LTE BAND 26

#### 7.1.1. Test Mode = LTE/TM1 15MHz RB1#0

##### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
104.246667	-69.52	-13.00	56.52	Vertical
143.960000	-72.90	-13.00	59.90	Vertical
1649.500000	-59.40	-13.00	46.40	Vertical
2474.500000	-46.43	-13.00	33.43	Vertical
4124.175000	-64.83	-13.00	51.83	Vertical
7959.825000	-63.50	-13.00	50.50	Vertical
56.366667	-76.51	-13.00	63.51	Horizontal
144.006667	-78.71	-13.00	65.71	Horizontal
1649.500000	-56.69	-13.00	43.69	Horizontal
2474.500000	-50.22	-13.00	37.22	Horizontal
4124.175000	-63.24	-13.00	50.24	Horizontal
9073.275000	-55.83	-13.00	42.83	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
75.266667	-74.56	-13.00	61.56	Vertical
152.453333	-75.27	-13.00	62.27	Vertical
1659.500000	-54.61	-13.00	41.61	Vertical
2489.500000	-48.16	-13.00	35.16	Vertical
4149.037500	-65.36	-13.00	52.36	Vertical
9128.362500	-60.22	-13.00	47.22	Vertical
62.480000	-76.55	-13.00	63.55	Horizontal
155.720000	-77.13	-13.00	64.13	Horizontal



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1659.500000	-54.25	-13.00	41.25	Horizontal
2489.500000	-51.72	-13.00	38.72	Horizontal
4149.037500	-64.05	-13.00	51.05	Horizontal
9128.362500	-53.55	-13.00	40.55	Horizontal

### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
104.246667	-68.78	-13.00	55.78	Vertical
144.006667	-71.06	-13.00	58.06	Vertical
1669.500000	-55.88	-13.00	42.88	Vertical
2504.500000	-47.41	-13.00	34.41	Vertical
4173.900000	-64.62	-13.00	51.62	Vertical
10018.050000	-62.88	-13.00	49.88	Vertical
63.413333	-77.17	-13.00	64.17	Horizontal
144.006667	-71.61	-13.00	58.61	Horizontal
1669.500000	-58.12	-13.00	45.12	Horizontal
2504.500000	-50.67	-13.00	37.67	Horizontal
4173.900000	-63.40	-13.00	50.40	Horizontal
9183.450000	-53.05	-13.00	40.05	Horizontal

#### Remark:

- 1) 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 had been displayed.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.





## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	15MHz	QPSK	26865	75RB#0	VL	NT	-0.30	-0.000361	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	VH	NT	-5.10	-0.006133	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VL	NT	-0.80	-0.000956	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VN	NT	-0.50	-0.000598	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	VH	NT	-2.10	-0.002510	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VL	NT	-2.20	-0.002614	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VN	NT	-2.20	-0.002614	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	VH	NT	-1.40	-0.001664	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	VL	NT	0.80	0.000962	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	VN	NT	0.20	0.000241	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	VH	NT	1.70	0.002044	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	VL	NT	0.20	0.000239	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	VN	NT	0.90	0.001076	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	VH	NT	-0.50	-0.000598	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	VL	NT	-1.90	-0.002258	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	VN	NT	-2.80	-0.003327	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	VH	NT	-2.30	-0.002733	±2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	15MHz	QPSK	26865	75RB#0	NV	-30	0.30	0.000361	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	-20	0.60	0.000722	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	0	-0.50	-0.000601	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	10	-0.40	-0.000481	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	20	0.50	0.000601	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	30	0.10	0.000120	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	40	0.50	0.000601	±2.5	PASS
Band26	15MHz	QPSK	26865	75RB#0	NV	50	-0.50	-0.000601	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	-30	-0.40	-0.000478	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	-20	-0.30	-0.000359	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	0	-0.50	-0.000598	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	10	-1.10	-0.001315	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	20	-0.40	-0.000478	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	30	-1.70	-0.002032	±2.5	PASS
Band26	15MHz	QPSK	26915	75RB#0	NV	40	-1.00	-0.001195	±2.5	PASS



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Band26	15MHz	QPSK	26915	75RB#0	NV	50	-1.00	-0.001195	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	-30	-1.00	-0.001188	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	-20	-2.10	-0.002496	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	0	-2.60	-0.003090	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	10	-1.20	-0.001426	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	20	0.10	0.000119	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	30	-3.30	-0.003922	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	40	-0.70	-0.000832	±2.5	PASS
Band26	15MHz	QPSK	26965	75RB#0	NV	50	-0.60	-0.000713	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	-30	0.40	0.000481	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	-20	0.10	0.000120	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	0	-0.10	-0.000120	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	10	-1.40	-0.001684	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	30	1.00	0.001203	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	40	0.90	0.001082	±2.5	PASS
Band26	15MHz	16QAM	26865	75RB#0	NV	50	-0.10	-0.000120	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	-30	-1.70	-0.002032	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	-20	-1.60	-0.001913	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	0	-0.50	-0.000598	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	10	-0.10	-0.000120	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	20	0.20	0.000239	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	30	0.60	0.000717	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band26	15MHz	16QAM	26915	75RB#0	NV	50	0.80	0.000956	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	-30	-1.60	-0.001901	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	-20	-1.90	-0.002258	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	0	-0.90	-0.001070	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	10	-2.40	-0.002852	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	20	-1.30	-0.001545	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	30	-1.70	-0.002020	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	40	-1.70	-0.002020	±2.5	PASS
Band26	15MHz	16QAM	26965	75RB#0	NV	50	-1.00	-0.001188	±2.5	PASS

The End



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