



# Appendix B

## E-UTRA Band 41



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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
Band41	5MHz	QPSK	40065	1RB#0	23.01	21.61	33	PASS
Band41	5MHz	QPSK	40065	1RB#12	23.28	21.88	33	PASS
Band41	5MHz	QPSK	40065	1RB#24	23.02	21.62	33	PASS
Band41	5MHz	QPSK	40065	12RB#6	21.83	20.43	33	PASS
Band41	5MHz	QPSK	40065	12RB#0	21.65	20.25	33	PASS
Band41	5MHz	QPSK	40065	12RB#13	21.62	20.22	33	PASS
Band41	5MHz	QPSK	40065	25RB#0	21.76	20.36	33	PASS
Band41	5MHz	QPSK	40640	1RB#24	23.16	21.76	33	PASS
Band41	5MHz	QPSK	40640	1RB#0	23.06	21.66	33	PASS
Band41	5MHz	QPSK	40640	1RB#12	23.16	21.76	33	PASS
Band41	5MHz	QPSK	40640	12RB#0	21.87	20.47	33	PASS
Band41	5MHz	QPSK	40640	12RB#6	21.98	20.58	33	PASS
Band41	5MHz	QPSK	40640	12RB#13	21.77	20.37	33	PASS
Band41	5MHz	QPSK	40640	25RB#0	21.91	20.51	33	PASS
Band41	5MHz	QPSK	41215	1RB#12	23.18	21.78	33	PASS
Band41	5MHz	QPSK	41215	1RB#0	23.03	21.63	33	PASS
Band41	5MHz	QPSK	41215	1RB#24	23.03	21.63	33	PASS
Band41	5MHz	QPSK	41215	12RB#13	21.74	20.34	33	PASS
Band41	5MHz	QPSK	41215	12RB#6	21.65	20.25	33	PASS
Band41	5MHz	QPSK	41215	12RB#0	21.68	20.28	33	PASS
Band41	5MHz	QPSK	41215	25RB#0	21.72	20.32	33	PASS
Band41	5MHz	64QAM	40065	1RB#0	20.84	19.44	33	PASS
Band41	5MHz	64QAM	40065	1RB#24	20.75	19.35	33	PASS
Band41	5MHz	64QAM	40065	1RB#12	20.69	19.29	33	PASS
Band41	5MHz	64QAM	40065	12RB#0	19.66	18.26	33	PASS
Band41	5MHz	64QAM	40065	12RB#6	19.75	18.35	33	PASS
Band41	5MHz	64QAM	40065	12RB#13	19.79	18.39	33	PASS



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Band41	5MHz	64QAM	40065	25RB#0	19.64	18.24	33	PASS
Band41	5MHz	64QAM	40640	1RB#0	20.92	19.52	33	PASS
Band41	5MHz	64QAM	40640	1RB#12	20.73	19.33	33	PASS
Band41	5MHz	64QAM	40640	1RB#24	20.65	19.25	33	PASS
Band41	5MHz	64QAM	40640	12RB#13	19.73	18.33	33	PASS
Band41	5MHz	64QAM	40640	12RB#6	19.95	18.55	33	PASS
Band41	5MHz	64QAM	40640	12RB#0	19.98	18.58	33	PASS
Band41	5MHz	64QAM	40640	25RB#0	19.81	18.41	33	PASS
Band41	5MHz	64QAM	41215	1RB#0	20.86	19.46	33	PASS
Band41	5MHz	64QAM	41215	1RB#12	20.68	19.28	33	PASS
Band41	5MHz	64QAM	41215	1RB#24	20.51	19.11	33	PASS
Band41	5MHz	64QAM	41215	12RB#0	19.52	18.12	33	PASS
Band41	5MHz	64QAM	41215	12RB#6	19.58	18.18	33	PASS
Band41	5MHz	64QAM	41215	12RB#13	19.91	18.51	33	PASS
Band41	5MHz	64QAM	41215	25RB#0	19.53	18.13	33	PASS
Band41	5MHz	16QAM	40065	1RB#0	22.00	20.6	33	PASS
Band41	5MHz	16QAM	40065	1RB#24	21.87	20.47	33	PASS
Band41	5MHz	16QAM	40065	1RB#12	21.86	20.46	33	PASS
Band41	5MHz	16QAM	40065	12RB#13	20.80	19.4	33	PASS
Band41	5MHz	16QAM	40065	12RB#6	20.85	19.45	33	PASS
Band41	5MHz	16QAM	40065	12RB#0	20.87	19.47	33	PASS
Band41	5MHz	16QAM	40065	25RB#0	20.79	19.39	33	PASS
Band41	5MHz	16QAM	40640	1RB#0	22.06	20.66	33	PASS
Band41	5MHz	16QAM	40640	1RB#12	21.85	20.45	33	PASS
Band41	5MHz	16QAM	40640	1RB#24	21.82	20.42	33	PASS
Band41	5MHz	16QAM	40640	12RB#0	20.84	19.44	33	PASS
Band41	5MHz	16QAM	40640	12RB#6	21.10	19.7	33	PASS
Band41	5MHz	16QAM	40640	12RB#13	21.12	19.72	33	PASS
Band41	5MHz	16QAM	40640	25RB#0	20.95	19.55	33	PASS
Band41	5MHz	16QAM	41215	1RB#0	21.95	20.55	33	PASS
Band41	5MHz	16QAM	41215	1RB#24	21.82	20.42	33	PASS
Band41	5MHz	16QAM	41215	1RB#12	21.70	20.3	33	PASS
Band41	5MHz	16QAM	41215	12RB#0	20.67	19.27	33	PASS



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Band41	5MHz	16QAM	41215	12RB#6	20.75	19.35	33	PASS
Band41	5MHz	16QAM	41215	12RB#13	21.05	19.65	33	PASS
Band41	5MHz	16QAM	41215	25RB#0	20.71	19.31	33	PASS
Band41	10MHz	QPSK	40090	1RB#49	23.00	21.6	33	PASS
Band41	10MHz	QPSK	40090	1RB#24	23.09	21.69	33	PASS
Band41	10MHz	QPSK	40090	1RB#0	23.08	21.68	33	PASS
Band41	10MHz	QPSK	40090	25RB#12	22.04	20.64	33	PASS
Band41	10MHz	QPSK	40090	25RB#0	21.72	20.32	33	PASS
Band41	10MHz	QPSK	40090	25RB#25	21.85	20.45	33	PASS
Band41	10MHz	QPSK	40090	50RB#0	21.87	20.47	33	PASS
Band41	10MHz	QPSK	40640	1RB#24	23.30	21.9	33	PASS
Band41	10MHz	QPSK	40640	1RB#49	23.18	21.78	33	PASS
Band41	10MHz	QPSK	40640	1RB#0	23.17	21.77	33	PASS
Band41	10MHz	QPSK	40640	25RB#25	21.98	20.58	33	PASS
Band41	10MHz	QPSK	40640	25RB#0	21.92	20.52	33	PASS
Band41	10MHz	QPSK	40640	25RB#12	21.83	20.43	33	PASS
Band41	10MHz	QPSK	40640	50RB#0	21.96	20.56	33	PASS
Band41	10MHz	QPSK	41190	1RB#49	23.33	21.93	33	PASS
Band41	10MHz	QPSK	41190	1RB#24	23.24	21.84	33	PASS
Band41	10MHz	QPSK	41190	1RB#0	23.07	21.67	33	PASS
Band41	10MHz	QPSK	41190	25RB#25	21.85	20.45	33	PASS
Band41	10MHz	QPSK	41190	25RB#0	21.86	20.46	33	PASS
Band41	10MHz	QPSK	41190	25RB#12	21.82	20.42	33	PASS
Band41	10MHz	QPSK	41190	50RB#0	21.85	20.45	33	PASS
Band41	10MHz	64QAM	40090	1RB#24	20.81	19.41	33	PASS
Band41	10MHz	64QAM	40090	1RB#49	20.55	19.15	33	PASS
Band41	10MHz	64QAM	40090	1RB#0	20.76	19.36	33	PASS
Band41	10MHz	64QAM	40090	25RB#0	19.66	18.26	33	PASS
Band41	10MHz	64QAM	40090	25RB#12	19.67	18.27	33	PASS
Band41	10MHz	64QAM	40090	25RB#25	19.98	18.58	33	PASS
Band41	10MHz	64QAM	40090	50RB#0	19.63	18.23	33	PASS
Band41	10MHz	64QAM	40640	1RB#49	20.86	19.46	33	PASS
Band41	10MHz	64QAM	40640	1RB#0	20.62	19.22	33	PASS



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Band41	10MHz	64QAM	40640	1RB#24	20.87	19.47	33	PASS
Band41	10MHz	64QAM	40640	25RB#0	19.67	18.27	33	PASS
Band41	10MHz	64QAM	40640	25RB#12	19.77	18.37	33	PASS
Band41	10MHz	64QAM	40640	25RB#25	19.98	18.58	33	PASS
Band41	10MHz	64QAM	40640	50RB#0	19.66	18.26	33	PASS
Band41	10MHz	64QAM	41190	1RB#0	20.59	19.19	33	PASS
Band41	10MHz	64QAM	41190	1RB#49	20.58	19.18	33	PASS
Band41	10MHz	64QAM	41190	1RB#24	20.70	19.3	33	PASS
Band41	10MHz	64QAM	41190	25RB#25	19.84	18.44	33	PASS
Band41	10MHz	64QAM	41190	25RB#0	19.64	18.24	33	PASS
Band41	10MHz	64QAM	41190	25RB#12	19.57	18.17	33	PASS
Band41	10MHz	64QAM	41190	50RB#0	19.66	18.26	33	PASS
Band41	10MHz	16QAM	40090	1RB#0	21.90	20.5	33	PASS
Band41	10MHz	16QAM	40090	1RB#24	21.72	20.32	33	PASS
Band41	10MHz	16QAM	40090	1RB#49	21.89	20.49	33	PASS
Band41	10MHz	16QAM	40090	25RB#12	20.77	19.37	33	PASS
Band41	10MHz	16QAM	40090	25RB#0	20.80	19.4	33	PASS
Band41	10MHz	16QAM	40090	25RB#25	21.10	19.7	33	PASS
Band41	10MHz	16QAM	40090	50RB#0	20.76	19.36	33	PASS
Band41	10MHz	16QAM	40640	1RB#0	21.95	20.55	33	PASS
Band41	10MHz	16QAM	40640	1RB#49	21.76	20.36	33	PASS
Band41	10MHz	16QAM	40640	1RB#24	21.96	20.56	33	PASS
Band41	10MHz	16QAM	40640	25RB#0	20.80	19.4	33	PASS
Band41	10MHz	16QAM	40640	25RB#25	20.93	19.53	33	PASS
Band41	10MHz	16QAM	40640	25RB#12	21.12	19.72	33	PASS
Band41	10MHz	16QAM	40640	50RB#0	20.80	19.4	33	PASS
Band41	10MHz	16QAM	41190	1RB#0	21.75	20.35	33	PASS
Band41	10MHz	16QAM	41190	1RB#49	21.76	20.36	33	PASS
Band41	10MHz	16QAM	41190	1RB#24	21.84	20.44	33	PASS
Band41	10MHz	16QAM	41190	25RB#0	21.01	19.61	33	PASS
Band41	10MHz	16QAM	41190	25RB#12	20.73	19.33	33	PASS
Band41	10MHz	16QAM	41190	25RB#25	20.76	19.36	33	PASS
Band41	10MHz	16QAM	41190	50RB#0	20.75	19.35	33	PASS



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Band41	15MHz	QPSK	40115	1RB#74	22.96	21.56	33	PASS
Band41	15MHz	QPSK	40115	1RB#38	23.21	21.81	33	PASS
Band41	15MHz	QPSK	40115	1RB#0	23.11	21.71	33	PASS
Band41	15MHz	QPSK	40115	36RB#39	22.05	20.65	33	PASS
Band41	15MHz	QPSK	40115	36RB#18	22.13	20.73	33	PASS
Band41	15MHz	QPSK	40115	36RB#0	21.82	20.42	33	PASS
Band41	15MHz	QPSK	40115	75RB#0	21.95	20.55	33	PASS
Band41	15MHz	QPSK	40640	1RB#0	22.95	21.55	33	PASS
Band41	15MHz	QPSK	40640	1RB#38	23.24	21.84	33	PASS
Band41	15MHz	QPSK	40640	1RB#74	23.22	21.82	33	PASS
Band41	15MHz	QPSK	40640	36RB#0	22.04	20.64	33	PASS
Band41	15MHz	QPSK	40640	36RB#18	22.14	20.74	33	PASS
Band41	15MHz	QPSK	40640	36RB#39	21.88	20.48	33	PASS
Band41	15MHz	QPSK	40640	75RB#0	21.85	20.45	33	PASS
Band41	15MHz	QPSK	41165	1RB#0	23.24	21.84	33	PASS
Band41	15MHz	QPSK	41165	1RB#38	23.06	21.66	33	PASS
Band41	15MHz	QPSK	41165	1RB#74	23.10	21.7	33	PASS
Band41	15MHz	QPSK	41165	36RB#0	22.07	20.67	33	PASS
Band41	15MHz	QPSK	41165	36RB#18	21.87	20.47	33	PASS
Band41	15MHz	QPSK	41165	36RB#39	21.75	20.35	33	PASS
Band41	15MHz	QPSK	41165	75RB#0	21.70	20.3	33	PASS
Band41	15MHz	64QAM	40115	1RB#74	20.66	19.26	33	PASS
Band41	15MHz	64QAM	40115	1RB#38	20.65	19.25	33	PASS
Band41	15MHz	64QAM	40115	1RB#0	20.54	19.14	33	PASS
Band41	15MHz	64QAM	40115	36RB#0	19.88	18.48	33	PASS
Band41	15MHz	64QAM	40115	36RB#18	19.57	18.17	33	PASS
Band41	15MHz	64QAM	40115	36RB#39	19.62	18.22	33	PASS
Band41	15MHz	64QAM	40115	75RB#0	19.93	18.53	33	PASS
Band41	15MHz	64QAM	40640	1RB#38	20.77	19.37	33	PASS
Band41	15MHz	64QAM	40640	1RB#74	20.72	19.32	33	PASS
Band41	15MHz	64QAM	40640	1RB#0	20.50	19.1	33	PASS
Band41	15MHz	64QAM	40640	36RB#39	19.90	18.5	33	PASS
Band41	15MHz	64QAM	40640	36RB#0	19.90	18.5	33	PASS



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Band41	15MHz	64QAM	40640	36RB#18	19.76	18.36	33	PASS
Band41	15MHz	64QAM	40640	75RB#0	19.77	18.37	33	PASS
Band41	15MHz	64QAM	41165	1RB#0	20.64	19.24	33	PASS
Band41	15MHz	64QAM	41165	1RB#38	20.73	19.33	33	PASS
Band41	15MHz	64QAM	41165	1RB#74	20.59	19.19	33	PASS
Band41	15MHz	64QAM	41165	36RB#18	20.03	18.63	33	PASS
Band41	15MHz	64QAM	41165	36RB#0	19.81	18.41	33	PASS
Band41	15MHz	64QAM	41165	36RB#39	19.78	18.38	33	PASS
Band41	15MHz	64QAM	41165	75RB#0	19.97	18.57	33	PASS
Band41	15MHz	16QAM	40115	1RB#38	21.83	20.43	33	PASS
Band41	15MHz	16QAM	40115	1RB#0	21.74	20.34	33	PASS
Band41	15MHz	16QAM	40115	1RB#74	21.73	20.33	33	PASS
Band41	15MHz	16QAM	40115	36RB#0	21.03	19.63	33	PASS
Band41	15MHz	16QAM	40115	36RB#39	20.75	19.35	33	PASS
Band41	15MHz	16QAM	40115	36RB#18	20.76	19.36	33	PASS
Band41	15MHz	16QAM	40115	75RB#0	21.12	19.72	33	PASS
Band41	15MHz	16QAM	40640	1RB#38	21.86	20.46	33	PASS
Band41	15MHz	16QAM	40640	1RB#74	21.91	20.51	33	PASS
Band41	15MHz	16QAM	40640	1RB#0	21.64	20.24	33	PASS
Band41	15MHz	16QAM	40640	36RB#0	21.00	19.6	33	PASS
Band41	15MHz	16QAM	40640	36RB#18	20.98	19.58	33	PASS
Band41	15MHz	16QAM	40640	36RB#39	20.95	19.55	33	PASS
Band41	15MHz	16QAM	40640	75RB#0	20.93	19.53	33	PASS
Band41	15MHz	16QAM	41165	1RB#0	21.75	20.35	33	PASS
Band41	15MHz	16QAM	41165	1RB#38	21.84	20.44	33	PASS
Band41	15MHz	16QAM	41165	1RB#74	21.68	20.28	33	PASS
Band41	15MHz	16QAM	41165	36RB#0	21.13	19.73	33	PASS
Band41	15MHz	16QAM	41165	36RB#18	20.94	19.54	33	PASS
Band41	15MHz	16QAM	41165	36RB#39	20.86	19.46	33	PASS
Band41	15MHz	16QAM	41165	75RB#0	21.14	19.74	33	PASS
Band41	20MHz	QPSK	40140	1RB#49	23.02	21.62	33	PASS
Band41	20MHz	QPSK	40140	1RB#0	23.12	21.72	33	PASS
Band41	20MHz	QPSK	40140	1RB#99	23.12	21.72	33	PASS



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Band41	20MHz	QPSK	40140	50RB#25	21.87	20.47	33	PASS
Band41	20MHz	QPSK	40140	50RB#0	21.77	20.37	33	PASS
Band41	20MHz	QPSK	40140	50RB#50	21.85	20.45	33	PASS
Band41	20MHz	QPSK	40140	100RB#0	21.76	20.36	33	PASS
Band41	20MHz	QPSK	40640	1RB#0	23.22	21.82	33	PASS
Band41	20MHz	QPSK	40640	1RB#49	23.23	21.83	33	PASS
Band41	20MHz	QPSK	40640	1RB#99	23.13	21.73	33	PASS
Band41	20MHz	QPSK	40640	50RB#0	21.98	20.58	33	PASS
Band41	20MHz	QPSK	40640	50RB#25	21.88	20.48	33	PASS
Band41	20MHz	QPSK	40640	50RB#50	21.75	20.35	33	PASS
Band41	20MHz	QPSK	40640	100RB#0	21.87	20.47	33	PASS
Band41	20MHz	QPSK	41140	1RB#0	23.10	21.7	33	PASS
Band41	20MHz	QPSK	41140	1RB#99	23.15	21.75	33	PASS
Band41	20MHz	QPSK	41140	1RB#49	23.14	21.74	33	PASS
Band41	20MHz	QPSK	41140	50RB#50	21.76	20.36	33	PASS
Band41	20MHz	QPSK	41140	50RB#25	21.76	20.36	33	PASS
Band41	20MHz	QPSK	41140	50RB#0	21.83	20.43	33	PASS
Band41	20MHz	QPSK	41140	100RB#0	21.85	20.45	33	PASS
Band41	20MHz	64QAM	40140	1RB#99	20.72	19.32	33	PASS
Band41	20MHz	64QAM	40140	1RB#0	20.79	19.39	33	PASS
Band41	20MHz	64QAM	40140	1RB#49	20.73	19.33	33	PASS
Band41	20MHz	64QAM	40140	50RB#0	19.74	18.34	33	PASS
Band41	20MHz	64QAM	40140	50RB#25	19.70	18.3	33	PASS
Band41	20MHz	64QAM	40140	50RB#50	19.59	18.19	33	PASS
Band41	20MHz	64QAM	40140	100RB#0	19.82	18.42	33	PASS
Band41	20MHz	64QAM	40640	1RB#99	20.64	19.24	33	PASS
Band41	20MHz	64QAM	40640	1RB#0	20.72	19.32	33	PASS
Band41	20MHz	64QAM	40640	1RB#49	20.65	19.25	33	PASS
Band41	20MHz	64QAM	40640	50RB#25	19.71	18.31	33	PASS
Band41	20MHz	64QAM	40640	50RB#50	20.02	18.62	33	PASS
Band41	20MHz	64QAM	40640	50RB#0	19.70	18.3	33	PASS
Band41	20MHz	64QAM	40640	100RB#0	19.76	18.36	33	PASS
Band41	20MHz	64QAM	41140	1RB#0	20.71	19.31	33	PASS



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Band41	20MHz	64QAM	41140	1RB#49	20.75	19.35	33	PASS
Band41	20MHz	64QAM	41140	1RB#99	20.61	19.21	33	PASS
Band41	20MHz	64QAM	41140	50RB#0	19.54	18.14	33	PASS
Band41	20MHz	64QAM	41140	50RB#25	19.59	18.19	33	PASS
Band41	20MHz	64QAM	41140	50RB#50	20.01	18.61	33	PASS
Band41	20MHz	64QAM	41140	100RB#0	19.66	18.26	33	PASS
Band41	20MHz	16QAM	40140	1RB#0	21.83	20.43	33	PASS
Band41	20MHz	16QAM	40140	1RB#99	21.87	20.47	33	PASS
Band41	20MHz	16QAM	40140	1RB#49	21.83	20.43	33	PASS
Band41	20MHz	16QAM	40140	50RB#0	20.86	19.46	33	PASS
Band41	20MHz	16QAM	40140	50RB#50	20.86	19.46	33	PASS
Band41	20MHz	16QAM	40140	50RB#25	20.72	19.32	33	PASS
Band41	20MHz	16QAM	40140	100RB#0	20.93	19.53	33	PASS
Band41	20MHz	16QAM	40640	1RB#0	21.81	20.41	33	PASS
Band41	20MHz	16QAM	40640	1RB#49	21.82	20.42	33	PASS
Band41	20MHz	16QAM	40640	1RB#99	21.82	20.42	33	PASS
Band41	20MHz	16QAM	40640	50RB#0	20.84	19.44	33	PASS
Band41	20MHz	16QAM	40640	50RB#25	21.14	19.74	33	PASS
Band41	20MHz	16QAM	40640	50RB#50	20.83	19.43	33	PASS
Band41	20MHz	16QAM	40640	100RB#0	20.86	19.46	33	PASS
Band41	20MHz	16QAM	41140	1RB#0	21.83	20.43	33	PASS
Band41	20MHz	16QAM	41140	1RB#99	21.83	20.43	33	PASS
Band41	20MHz	16QAM	41140	1RB#49	21.78	20.38	33	PASS
Band41	20MHz	16QAM	41140	50RB#50	20.73	19.33	33	PASS
Band41	20MHz	16QAM	41140	50RB#25	20.75	19.35	33	PASS
Band41	20MHz	16QAM	41140	50RB#0	21.16	19.76	33	PASS
Band41	20MHz	16QAM	41140	100RB#0	20.76	19.36	33	PASS

Remark:

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

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

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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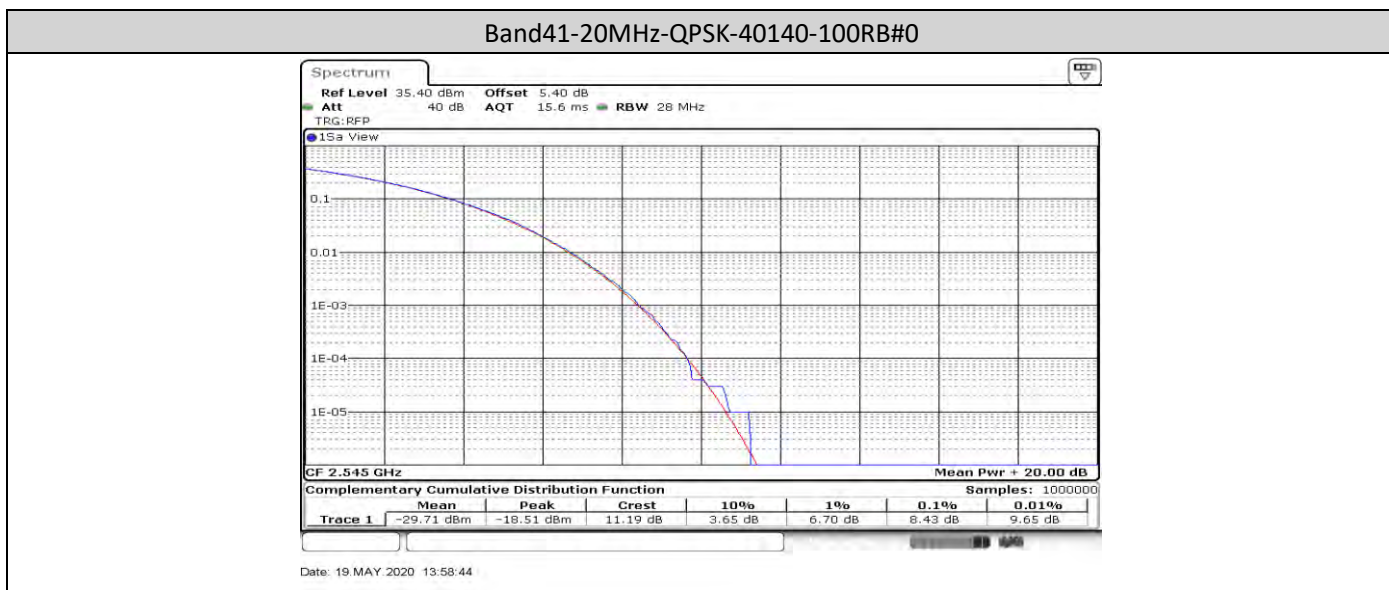


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	40140	100RB#0	8.43	13	PASS
Band41	20MHz	QPSK	40640	100RB#0	8.35	13	PASS
Band41	20MHz	QPSK	41140	100RB#0	8.35	13	PASS
Band41	20MHz	64QAM	40140	100RB#0	7.57	13	PASS
Band41	20MHz	64QAM	40640	100RB#0	9.62	13	PASS
Band41	20MHz	64QAM	41140	100RB#0	9.65	13	PASS
Band41	20MHz	16QAM	40140	100RB#0	9.04	13	PASS
Band41	20MHz	16QAM	40640	100RB#0	9.19	13	PASS
Band41	20MHz	16QAM	41140	100RB#0	9.13	13	PASS

### 2.2. Test Plots



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**Band41-20MHz-QPSK-40640-100RB#0**



Date: 19.MAY.2020 13:59:06

**Band41-20MHz-QPSK-41140-100RB#0**

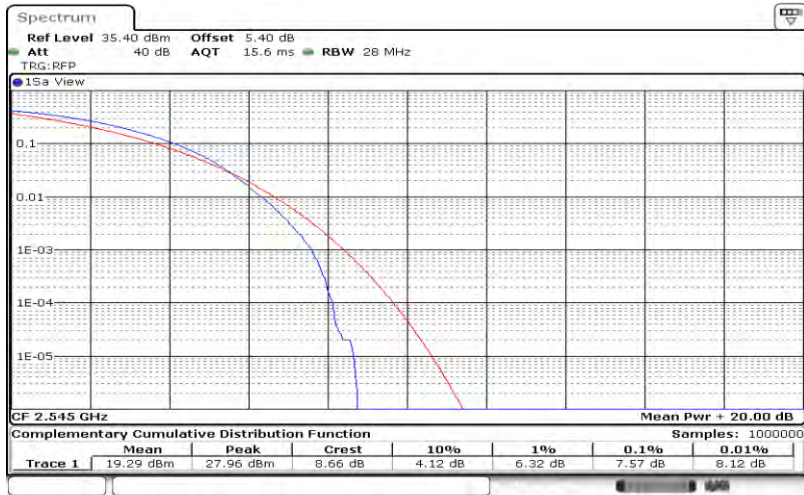


Date: 19.MAY.2020 13:59:29



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**Band41-20MHz-64QAM-40140-100RB#0**



Date: 22.MAY.2020 11:39:49

**Band41-20MHz-64QAM-40640-100RB#0**



Date: 22.MAY.2020 11:40:00



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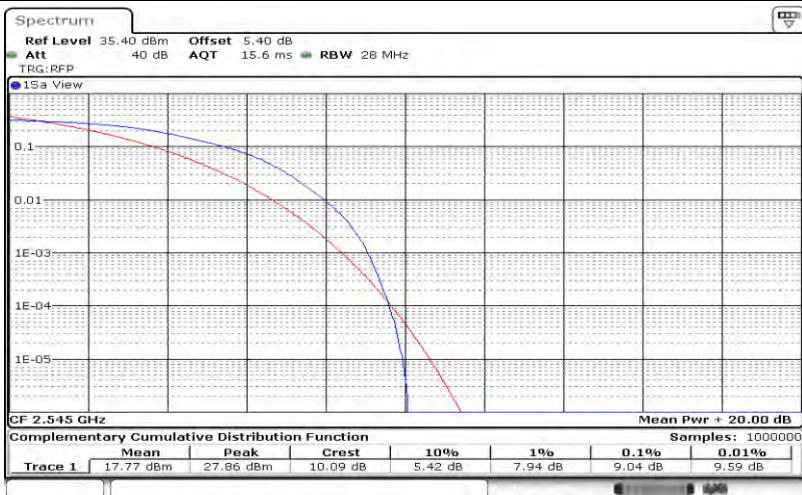


Band41-20MHz-64QAM-41140-100RB#0



Date: 22 MAY 2020 11:40:12

Band41-20MHz-16QAM-40140-100RB#0

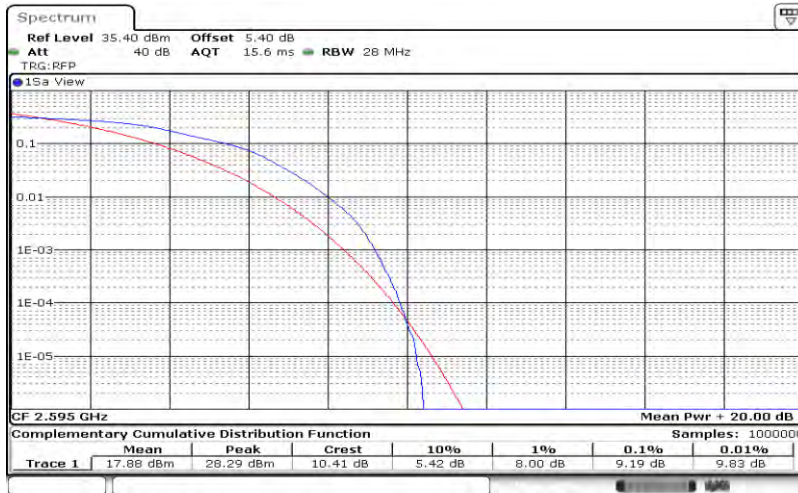


Date: 19 MAY 2020 13:58:55



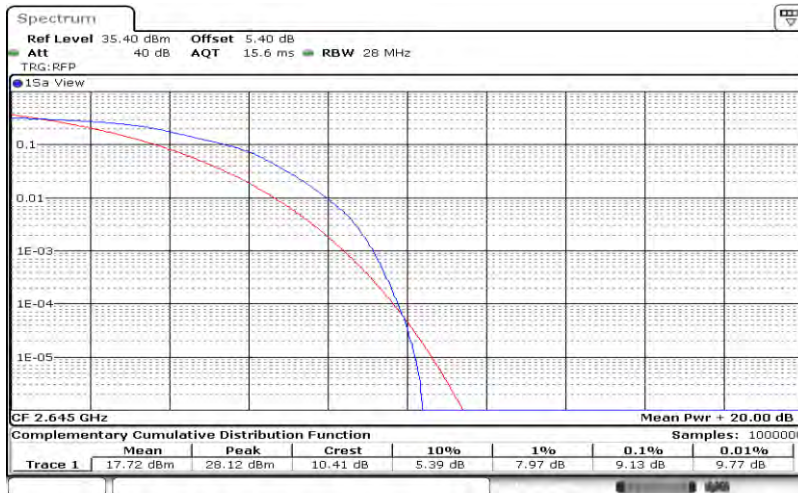
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**Band41-20MHz-16QAM-40640-100RB#0**



Date: 19.MAY.2020 13:59:18

**Band41-20MHz-16QAM-41140-100RB#0**



Date: 19.MAY.2020 13:59:40



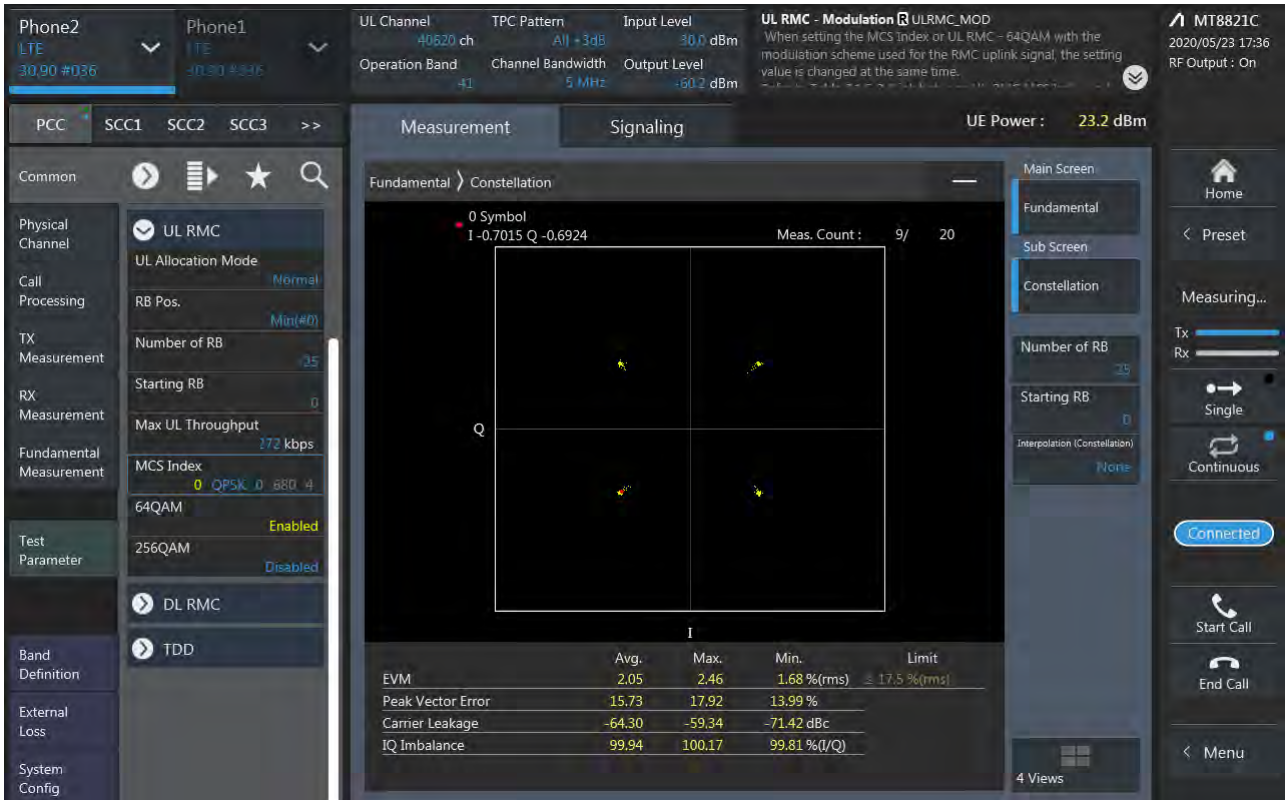
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### 3. Modulation Characteristics

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

##### 3.1.1. Test Channel = MCH

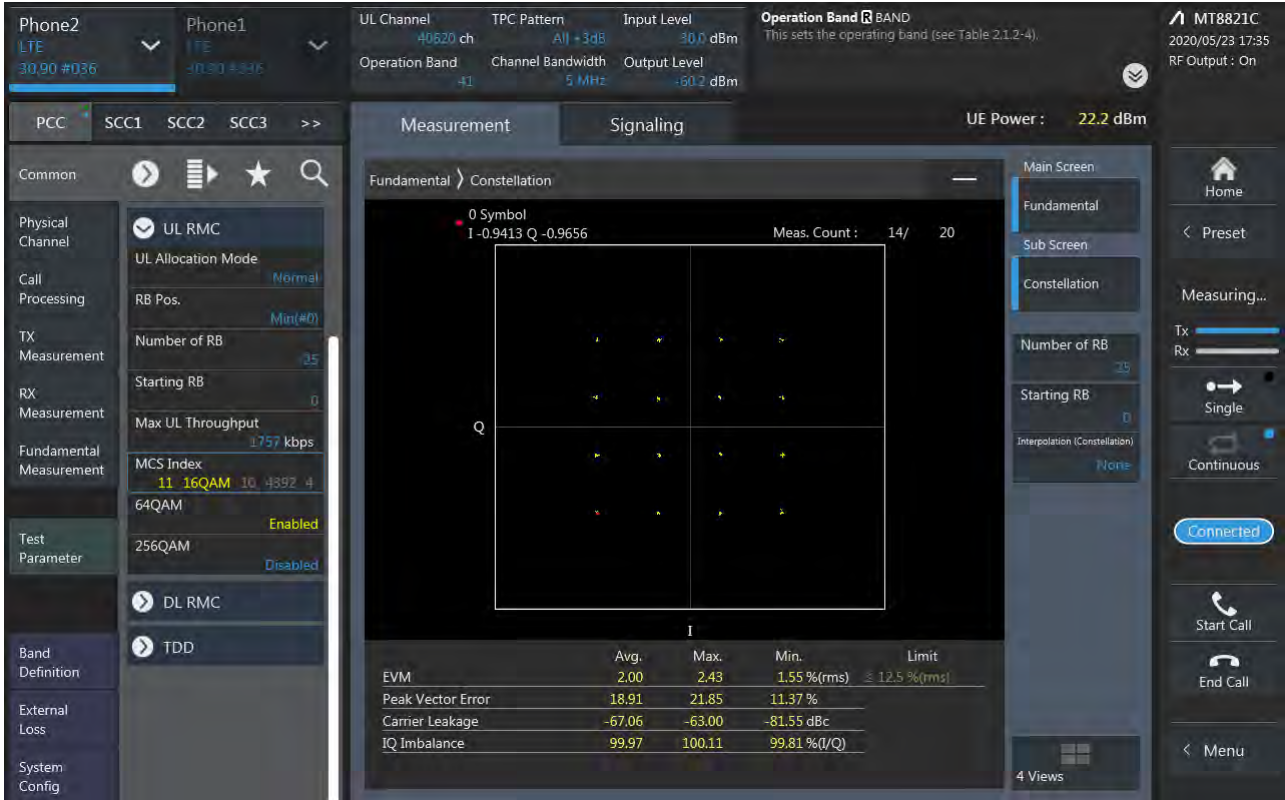


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### 3.2. Test Mode = LTE /TM2 20MHz

#### 3.2.1. Test Channel = MCH

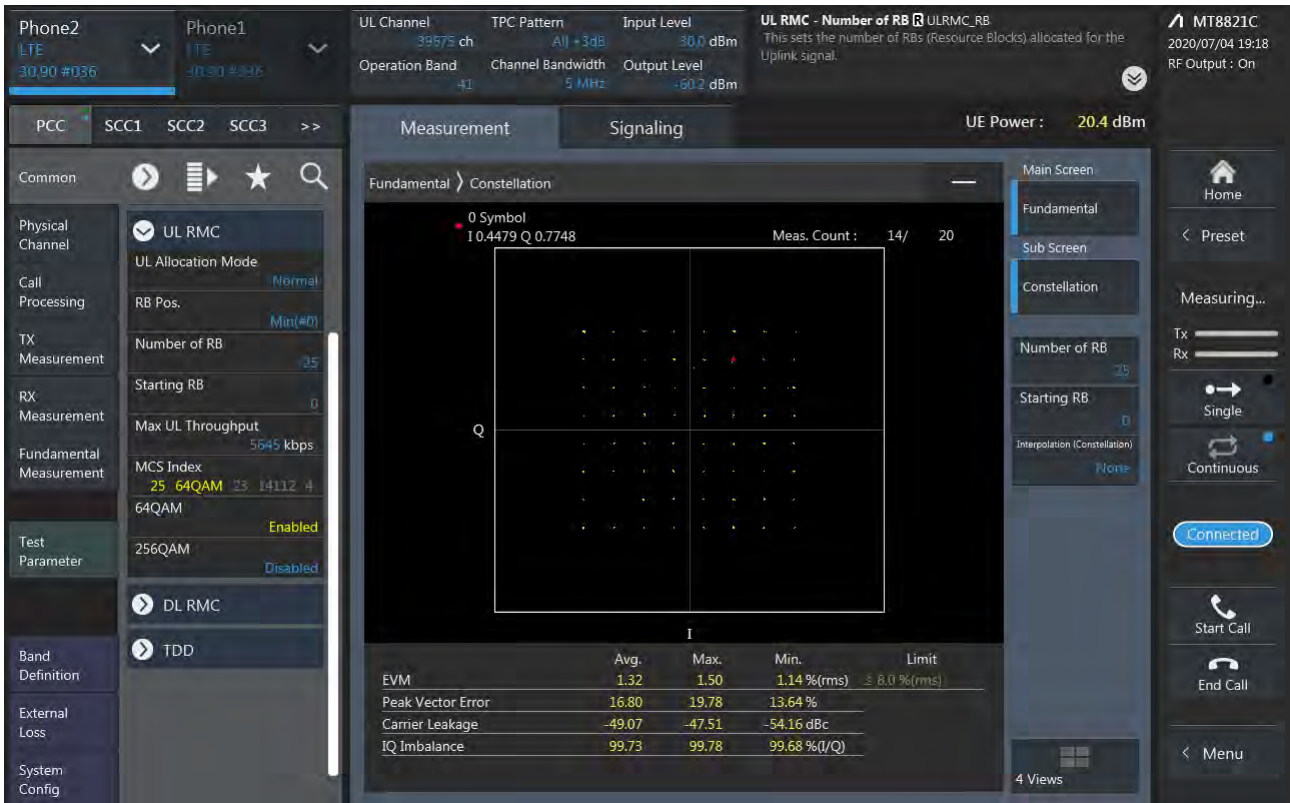


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### 3.3. Test Mode = LTE /TM3 20MHz

#### 3.3.1. 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
Band41	5MHz	QPSK	40065	25RB#0	4.466	4.950	PASS
Band41	5MHz	QPSK	40640	25RB#0	4.476	4.940	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.466	4.950	PASS
Band41	5MHz	64QAM	40065	25RB#0	4.476	5.050	PASS
Band41	5MHz	64QAM	40640	25RB#0	4.486	5.020	PASS
Band41	5MHz	64QAM	41215	25RB#0	4.486	5.050	PASS
Band41	5MHz	16QAM	40065	25RB#0	4.496	4.950	PASS
Band41	5MHz	16QAM	40640	25RB#0	4.486	4.970	PASS
Band41	5MHz	16QAM	41215	25RB#0	4.496	4.960	PASS
Band41	10MHz	QPSK	40090	50RB#0	8.911	9.660	PASS
Band41	10MHz	QPSK	40640	50RB#0	8.911	9.680	PASS
Band41	10MHz	QPSK	41190	50RB#0	8.911	9.680	PASS
Band41	10MHz	64QAM	40090	50RB#0	8.911	9.780	PASS
Band41	10MHz	64QAM	40640	50RB#0	8.931	9.780	PASS
Band41	10MHz	64QAM	41190	50RB#0	8.931	9.780	PASS
Band41	10MHz	16QAM	40090	50RB#0	8.911	9.640	PASS
Band41	10MHz	16QAM	40640	50RB#0	8.911	9.660	PASS
Band41	10MHz	16QAM	41190	50RB#0	8.911	9.680	PASS
Band41	15MHz	QPSK	40115	75RB#0	13.487	15.780	PASS
Band41	15MHz	QPSK	40640	75RB#0	13.487	15.900	PASS
Band41	15MHz	QPSK	41165	75RB#0	13.487	16.050	PASS
Band41	15MHz	64QAM	40115	75RB#0	13.427	15.150	PASS
Band41	15MHz	64QAM	40640	75RB#0	13.457	15.030	PASS
Band41	15MHz	64QAM	41165	75RB#0	13.427	15.060	PASS
Band41	15MHz	16QAM	40115	75RB#0	13.457	14.880	PASS
Band41	15MHz	16QAM	40640	75RB#0	13.457	15.030	PASS
Band41	15MHz	16QAM	41165	75RB#0	13.457	14.910	PASS
Band41	20MHz	QPSK	40140	100RB#0	17.902	19.720	PASS
Band41	20MHz	QPSK	40640	100RB#0	17.942	19.560	PASS
Band41	20MHz	QPSK	41140	100RB#0	17.902	19.560	PASS
Band41	20MHz	64QAM	40140	100RB#0	17.862	19.360	PASS



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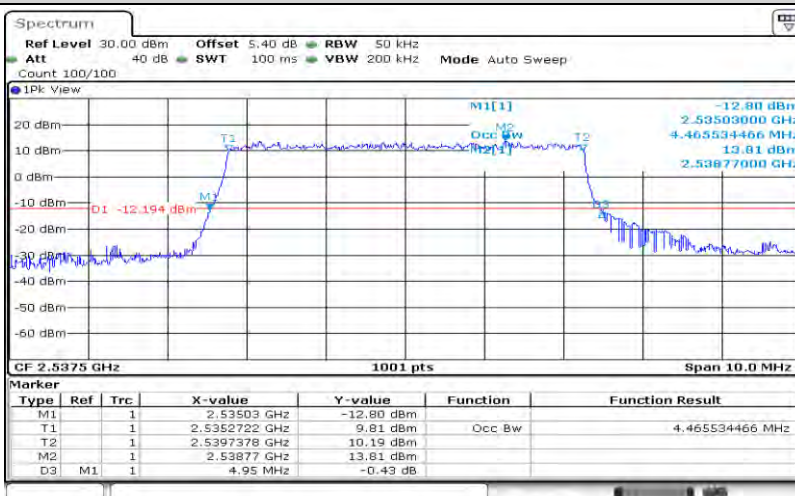
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Band41	20MHz	64QAM	40640	100RB#0	17.942	19.560	PASS
Band41	20MHz	64QAM	41140	100RB#0	17.902	19.360	PASS
Band41	20MHz	16QAM	40140	100RB#0	17.902	19.520	PASS
Band41	20MHz	16QAM	40640	100RB#0	17.862	20.120	PASS
Band41	20MHz	16QAM	41140	100RB#0	17.902	20.120	PASS

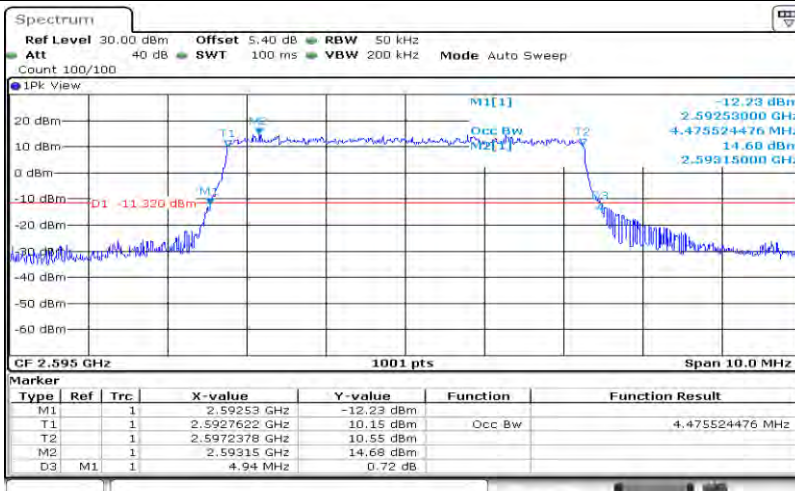
## 4.2. Test Plots

Band41-5MHz-QPSK-40065-25RB#0-4.466



Date: 19.MAY.2020 13:32:51

Band41-5MHz-QPSK-40640-25RB#0-4.476



Date: 19.MAY.2020 13:33:31



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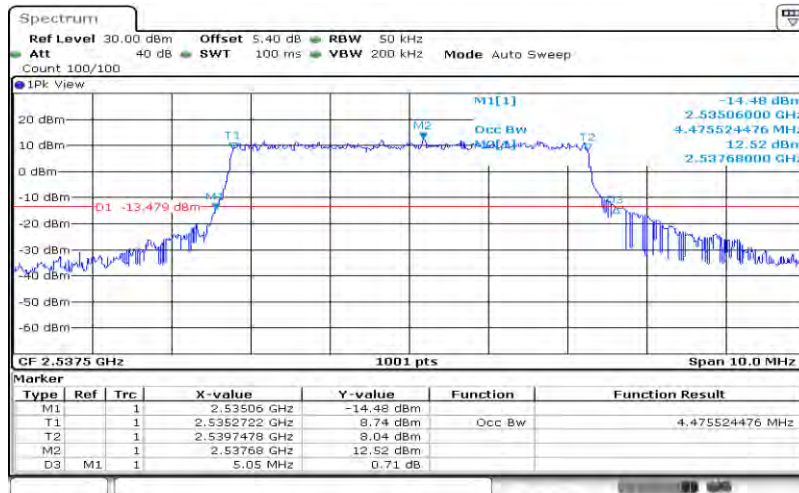


Band41-5MHz-QPSK-41215-25RB#0-4.466



Date: 19 MAY 2020 13:34:10

Band41-5MHz-64QAM-40065-25RB#0-4.476



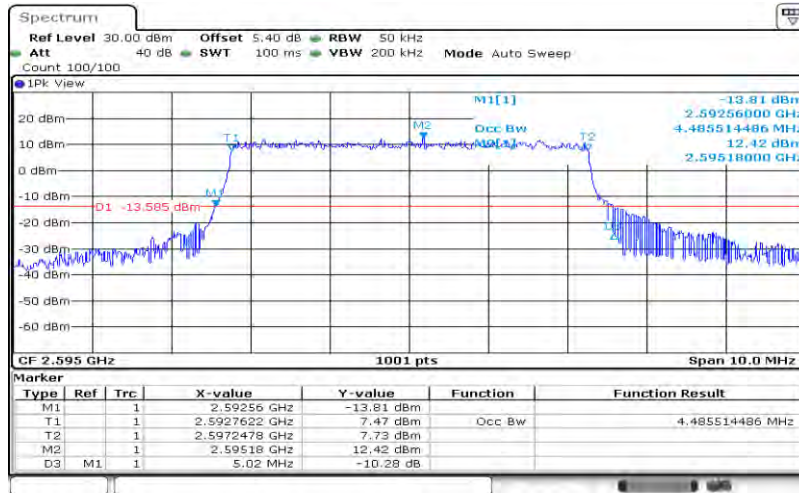
Date: 22 MAY 2020 11:15:13



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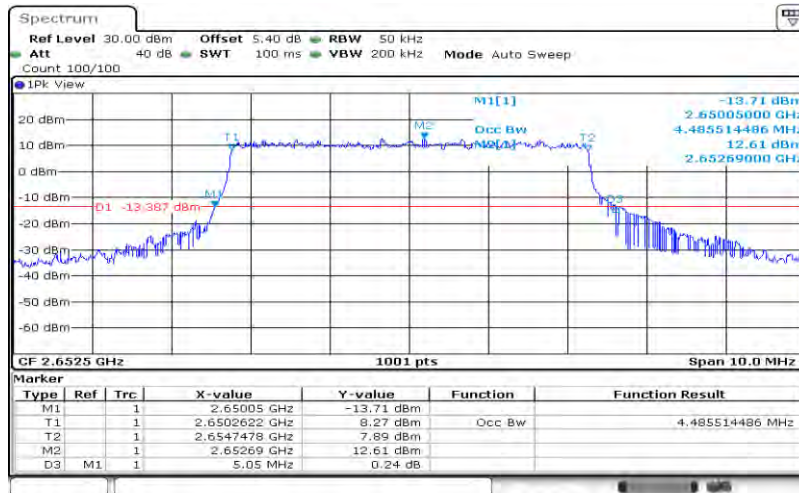
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**Band41-5MHz-64QAM-40640-25RB#0-4.486**



Date: 22.MAY.2020 11:15:33

**Band41-5MHz-64QAM-41215-25RB#0-4.486**



Date: 22.MAY.2020 11:15:53

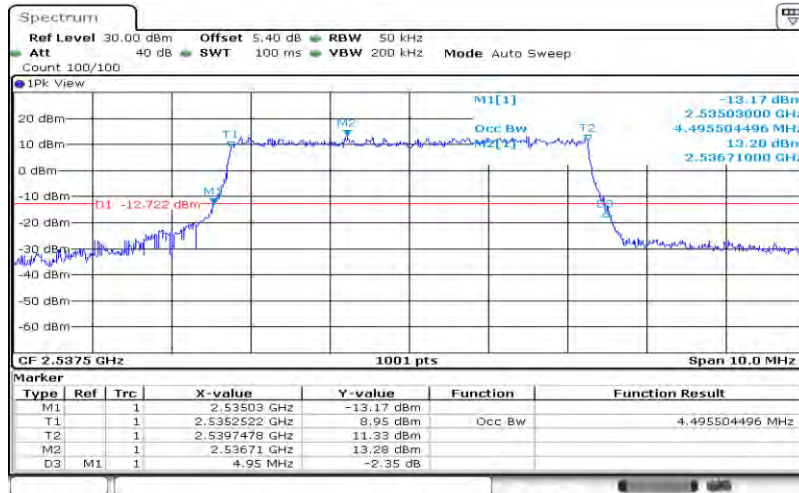


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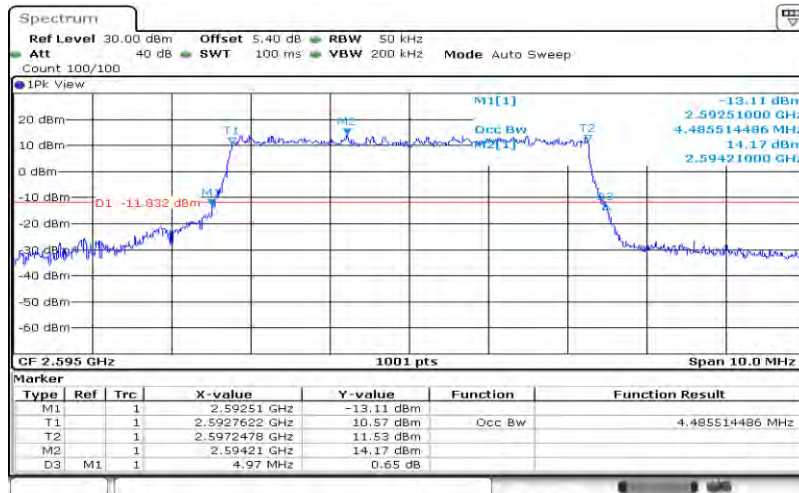


Band41-5MHz-16QAM-40065-25RB#0-4.496



Date: 19.MAY.2020 13:33:11

Band41-5MHz-16QAM-40640-25RB#0-4.486



Date: 19.MAY.2020 13:33:50



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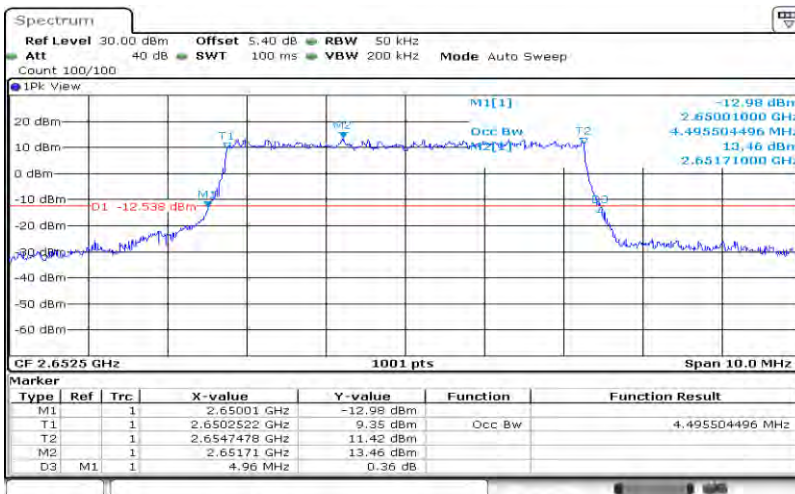
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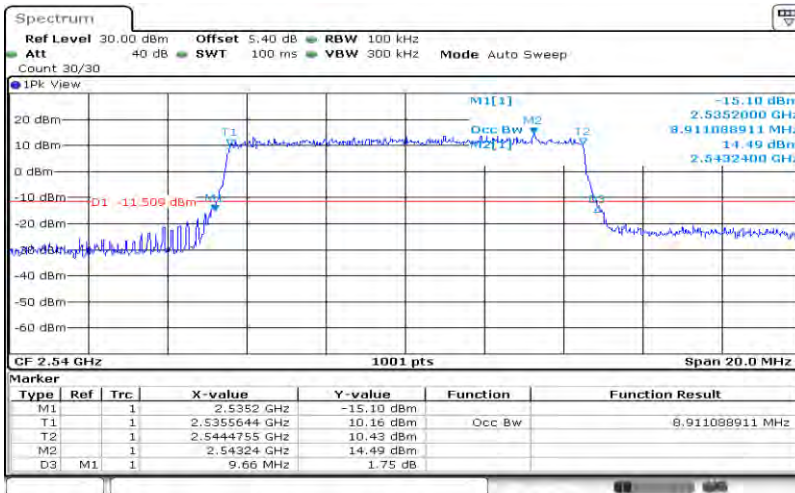


Band41-5MHz-16QAM-41215-25RB#0-4.496



Date: 19.MAY.2020 13:34:30

Band41-10MHz-QPSK-40090-50RB#0-8.911

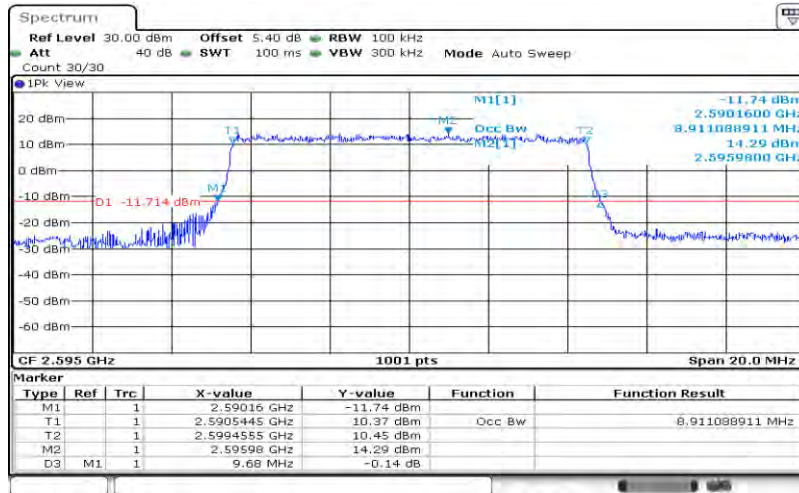


Date: 19.MAY.2020 13:34:48



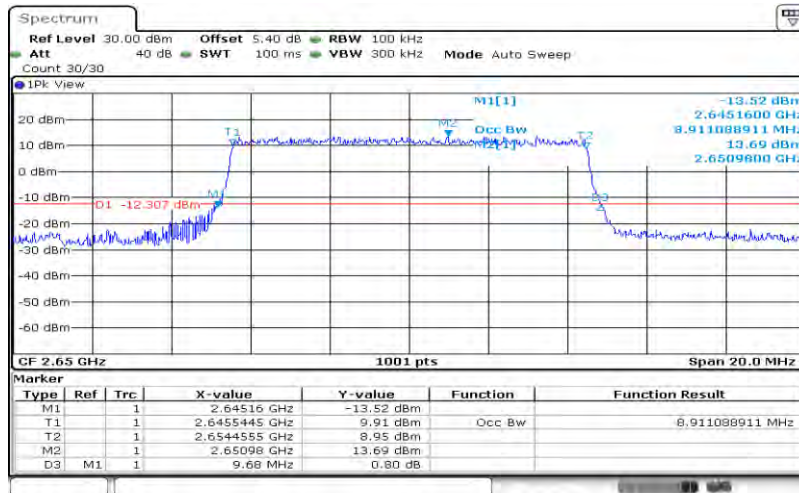
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**Band41-10MHz-QPSK-40640-50RB#0-8.911**



Date: 19.MAY.2020 13:35:13

**Band41-10MHz-QPSK-41190-50RB#0-8.911**

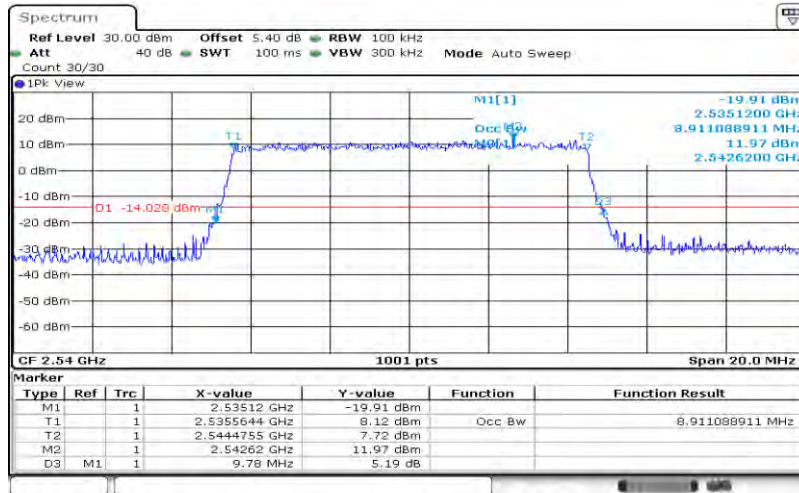


Date: 19.MAY.2020 13:35:39



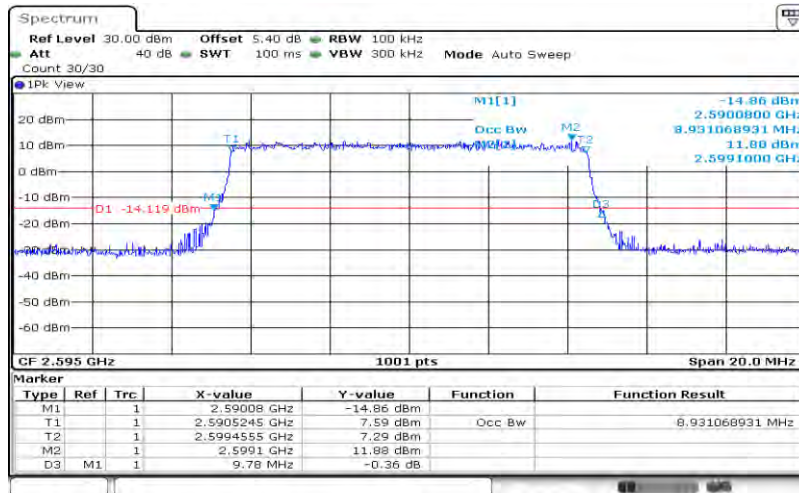
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**Band41-10MHz-64QAM-40090-50RB#0-8.911**



Date: 22.MAY.2020 11:16:10

**Band41-10MHz-64QAM-40640-50RB#0-8.931**

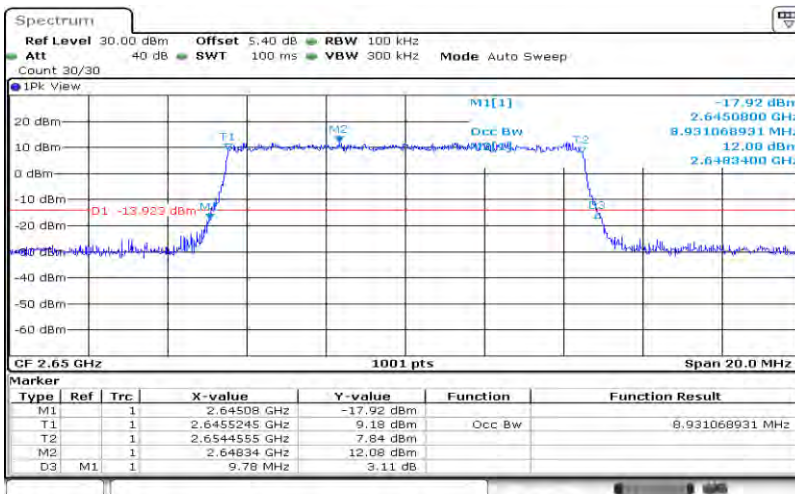


Date: 22.MAY.2020 11:16:23



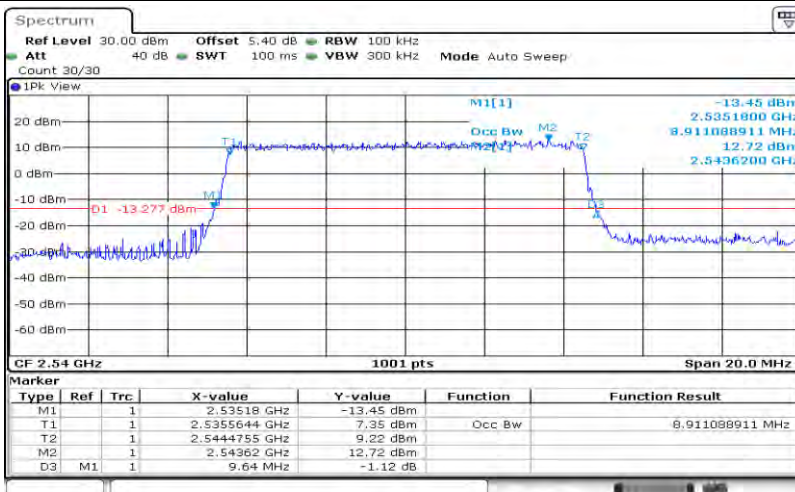
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**Band41-10MHz-64QAM-41190-50RB#0-8.931**



Date: 22 MAY 2020 11:18:36

**Band41-10MHz-16QAM-40090-50RB#0-8.911**



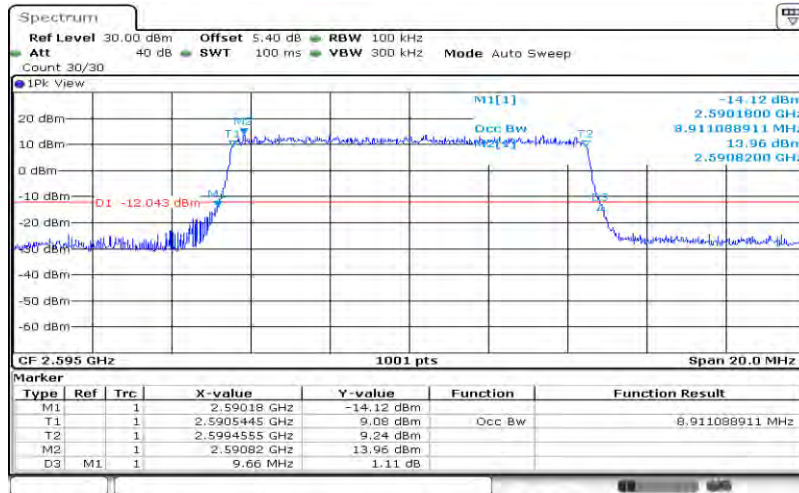
Date: 19 MAY 2020 13:35:00



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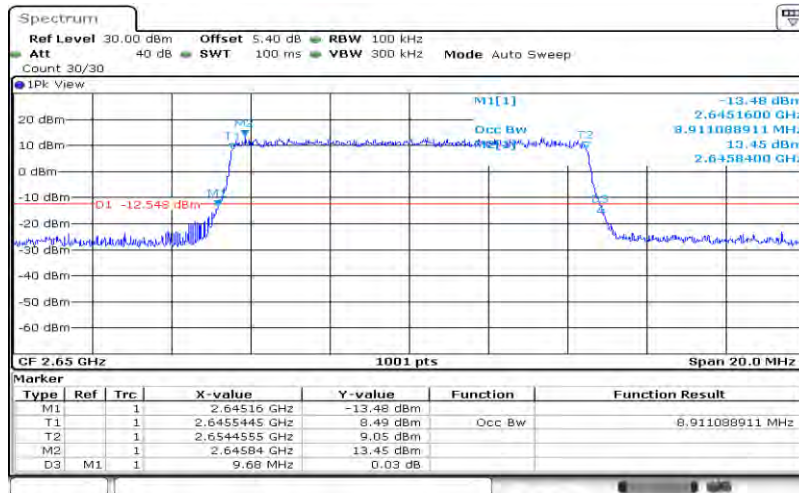


Band41-10MHz-16QAM-40640-50RB#0-8.911



Date: 19.MAY.2020 13:35:26

Band41-10MHz-16QAM-41190-50RB#0-8.911



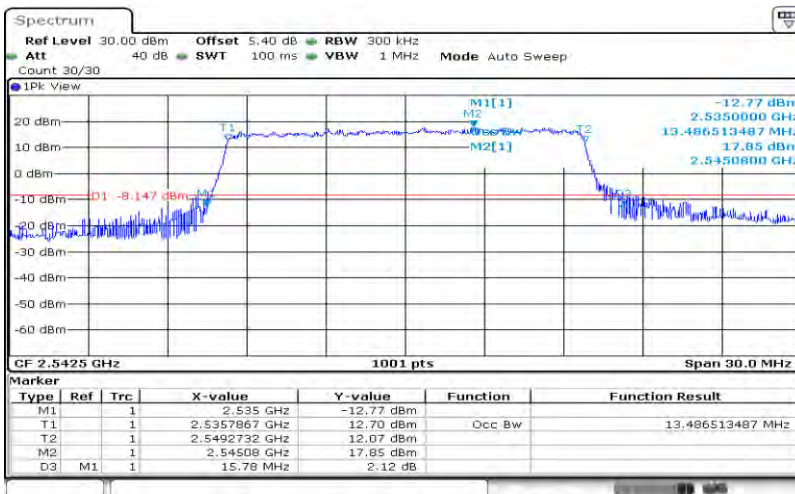
Date: 19.MAY.2020 13:35:51



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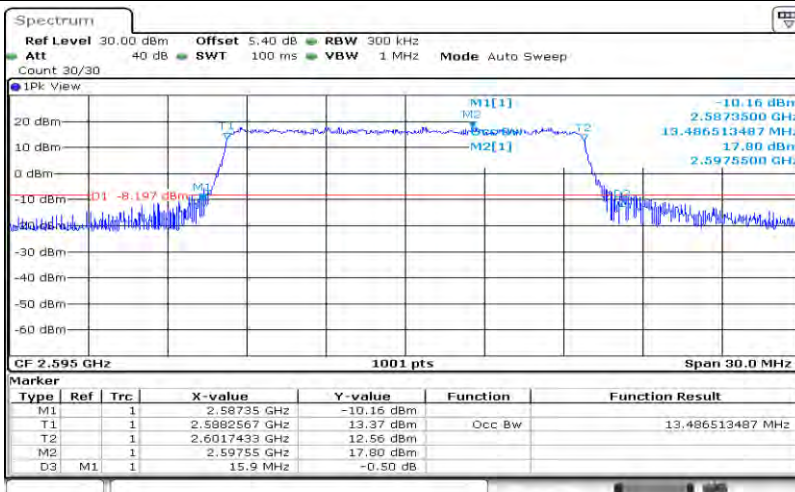


Band41-15MHz-QPSK-40115-75RB#0-13.487



Date: 19.MAY 2020 13:38:09

Band41-15MHz-QPSK-40640-75RB#0-13.487

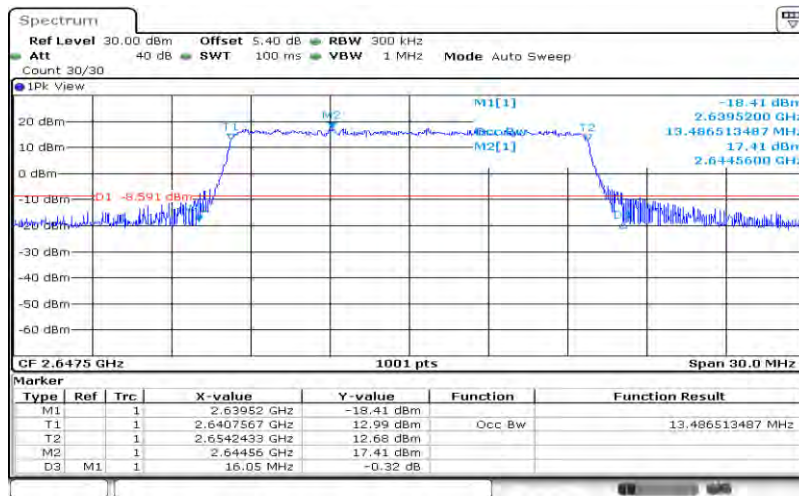


Date: 19.MAY 2020 13:38:34



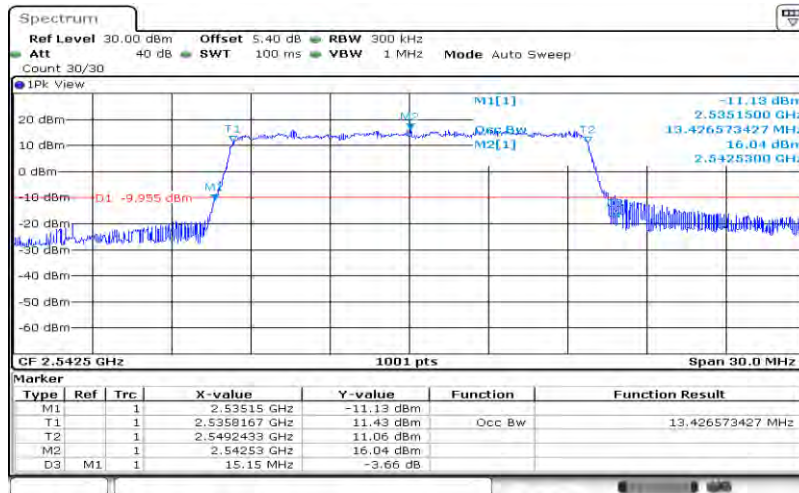
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**Band41-15MHz-QPSK-41165-75RB#0-13.487**



Date: 19.MAY 2020 13:37:00

**Band41-15MHz-64QAM-40115-75RB#0-13.427**



Date: 22.MAY 2020 11:16:54

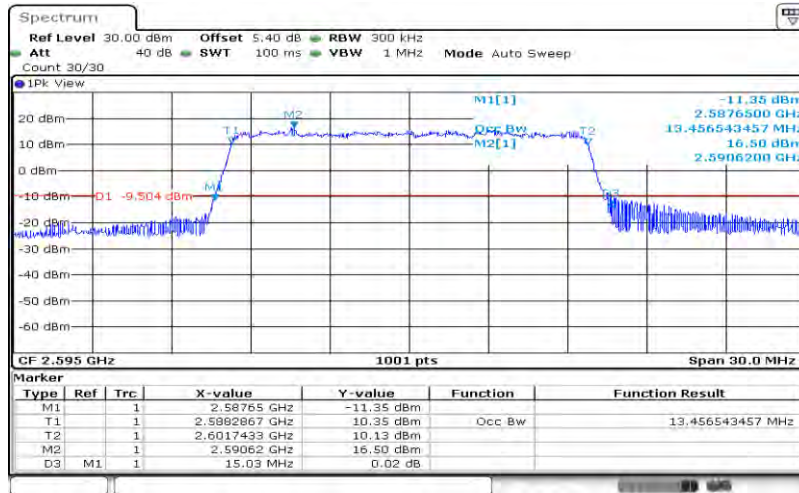


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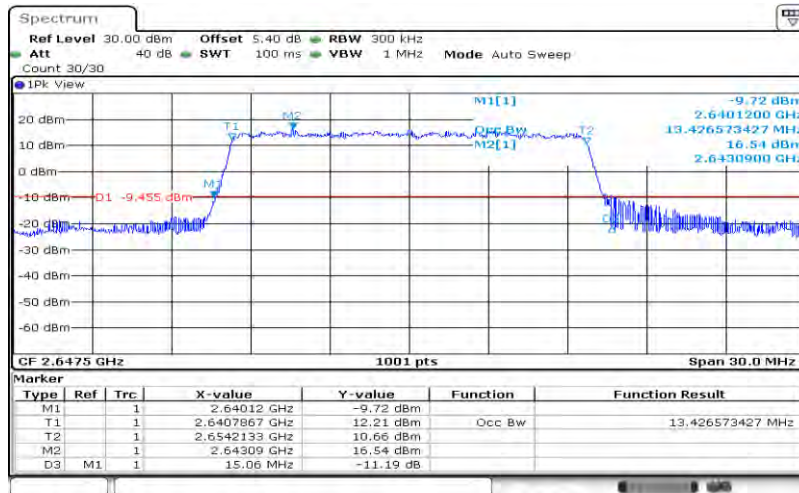


Band41-15MHz-64QAM-40640-75RB#0-13.457



Date: 22 MAY 2020 11:17:07

Band41-15MHz-64QAM-41165-75RB#0-13.427



Date: 22 MAY 2020 11:17:20

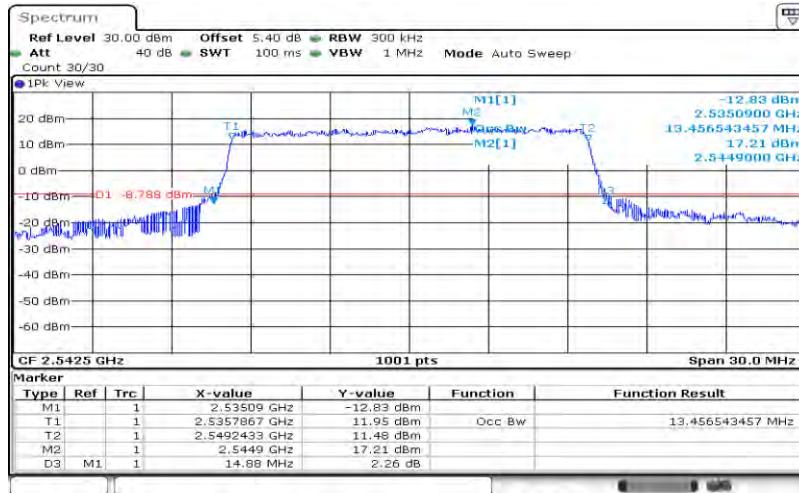


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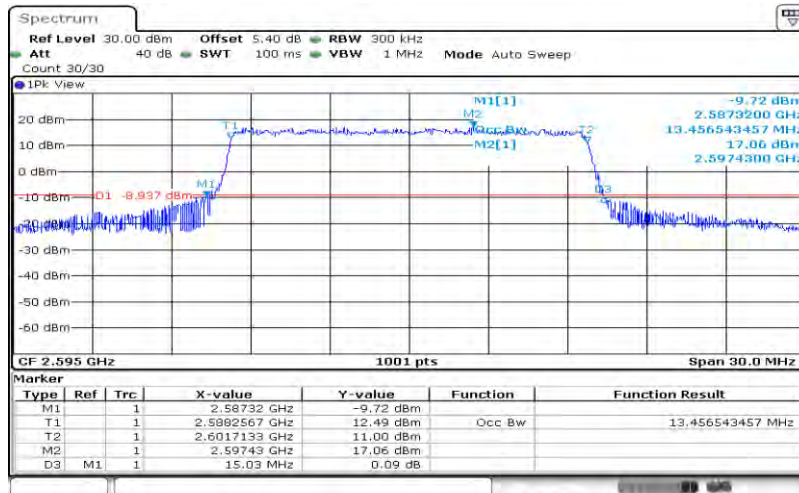


**Band41-15MHz-16QAM-40115-75RB#0-13.457**



Date: 19.MAY.2020 13:38:21

**Band41-15MHz-16QAM-40640-75RB#0-13.457**



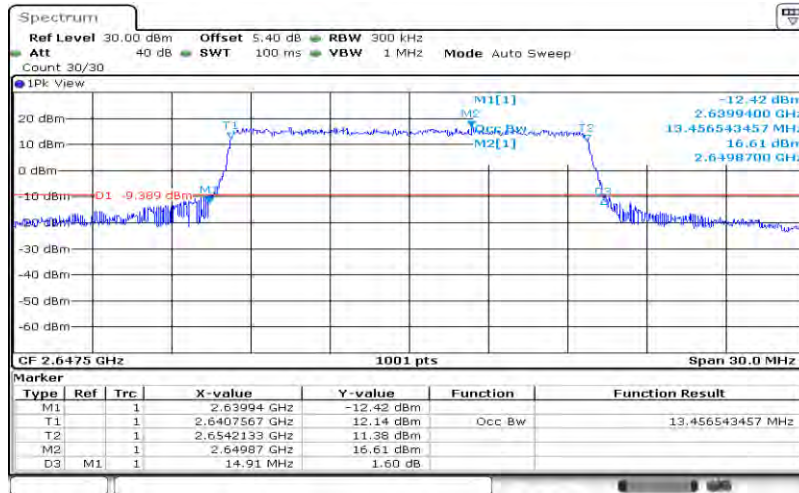
Date: 19.MAY.2020 13:38:47



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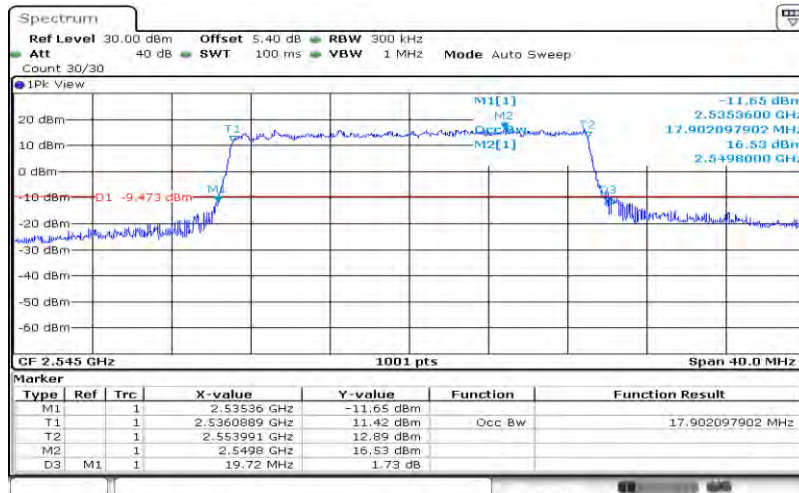
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**Band41-15MHz-16QAM-41165-75RB#0-13.457**



Date: 19.MAY.2020 13:37:13

**Band41-20MHz-QPSK-40140-100RB#0-17.902**



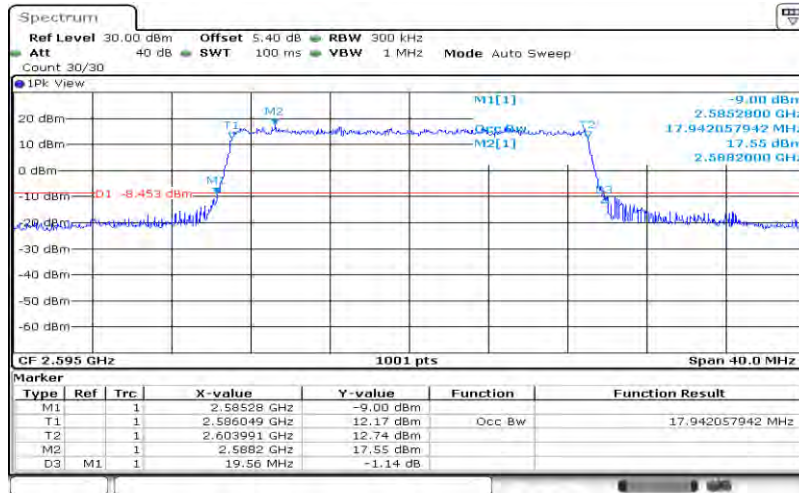
Date: 19.MAY.2020 13:37:30



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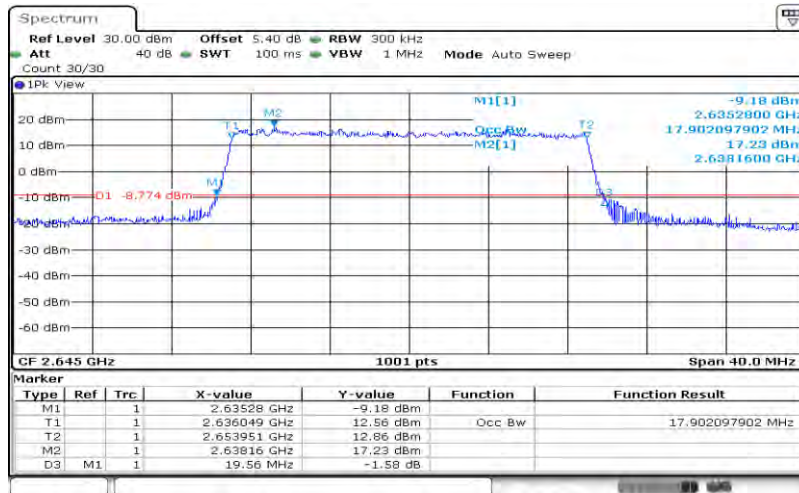
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**Band41-20MHz-QPSK-40640-100RB#0-17.942**



Date: 19.MAY 2020 13:37:56

**Band41-20MHz-QPSK-41140-100RB#0-17.902**



Date: 19.MAY 2020 13:38:22

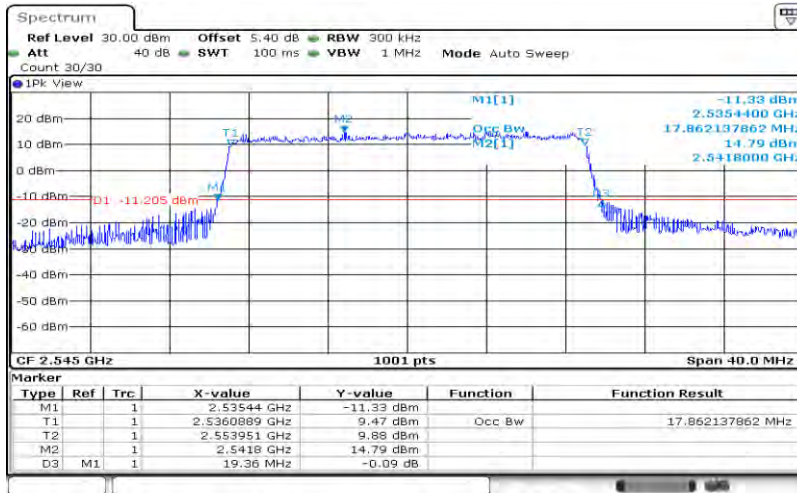


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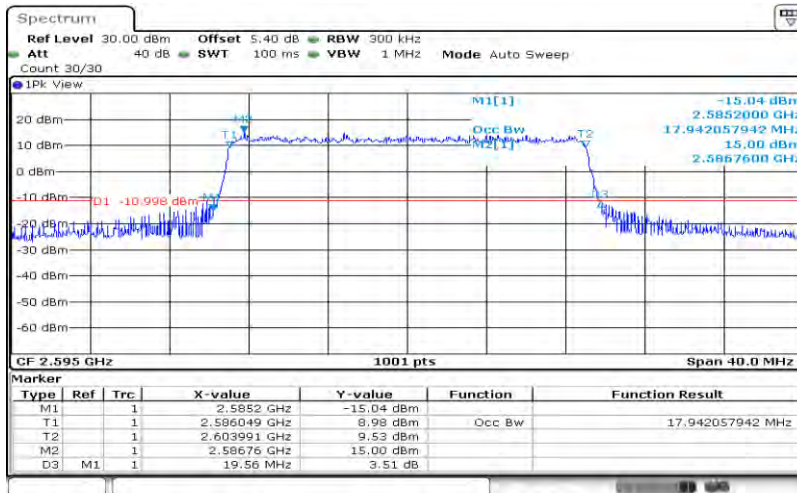
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**Band41-20MHz-64QAM-40140-100RB#0-17.862**



Date: 22.MAY.2020 11:30:33

**Band41-20MHz-64QAM-40640-100RB#0-17.942**



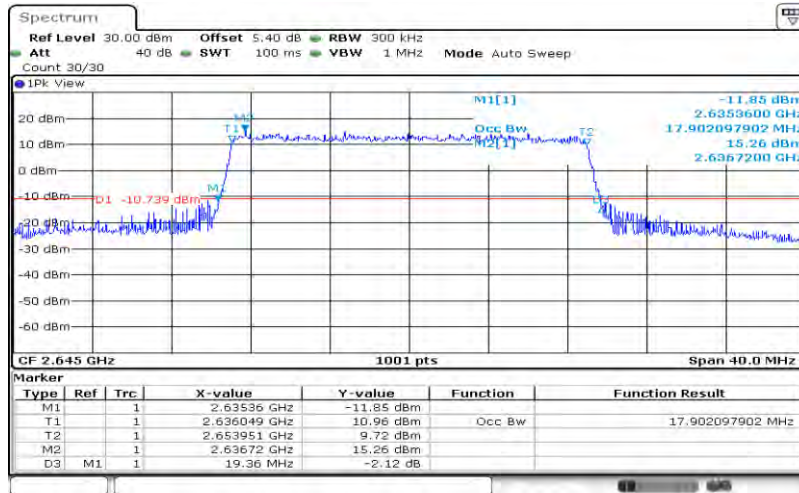
Date: 22.MAY.2020 11:30:46



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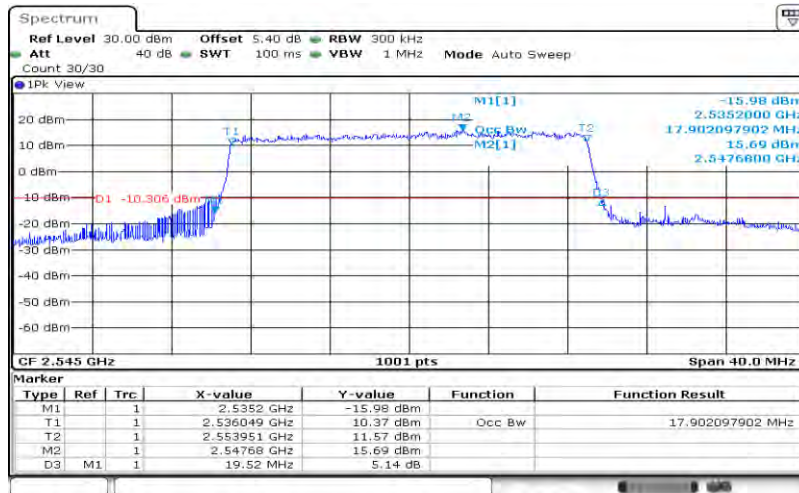


**Band41-20MHz-64QAM-41140-100RB#0-17.902**



Date: 22.MAY.2020 11:30:58

**Band41-20MHz-16QAM-40140-100RB#0-17.902**



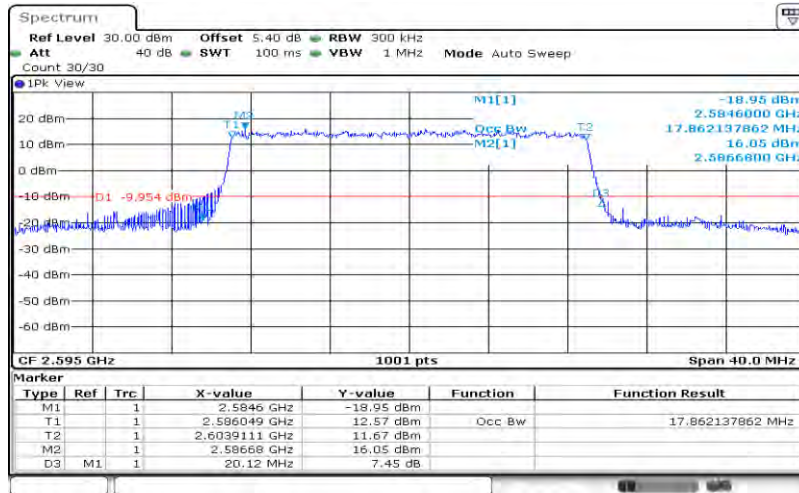
Date: 19.MAY.2020 13:37:43



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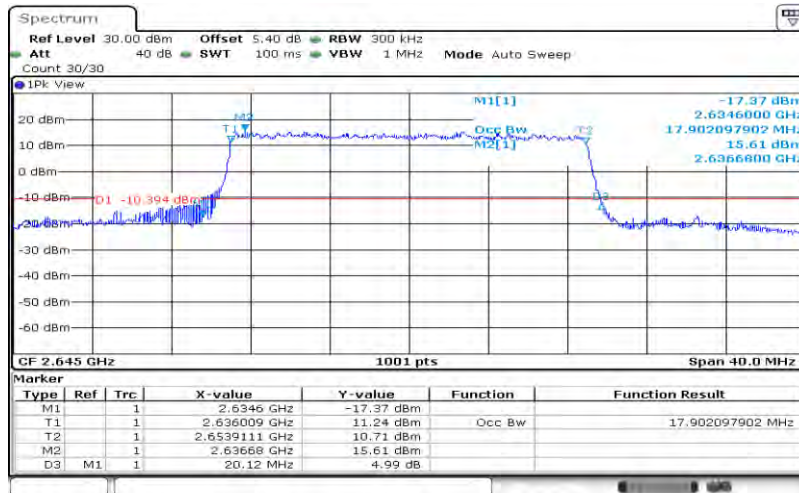


**Band41-20MHz-16QAM-40640-100RB#0-17.862**



Date: 19 MAY 2020 13:38:09

**Band41-20MHz-16QAM-41140-100RB#0-17.902**



Date: 19 MAY 2020 13:38:34

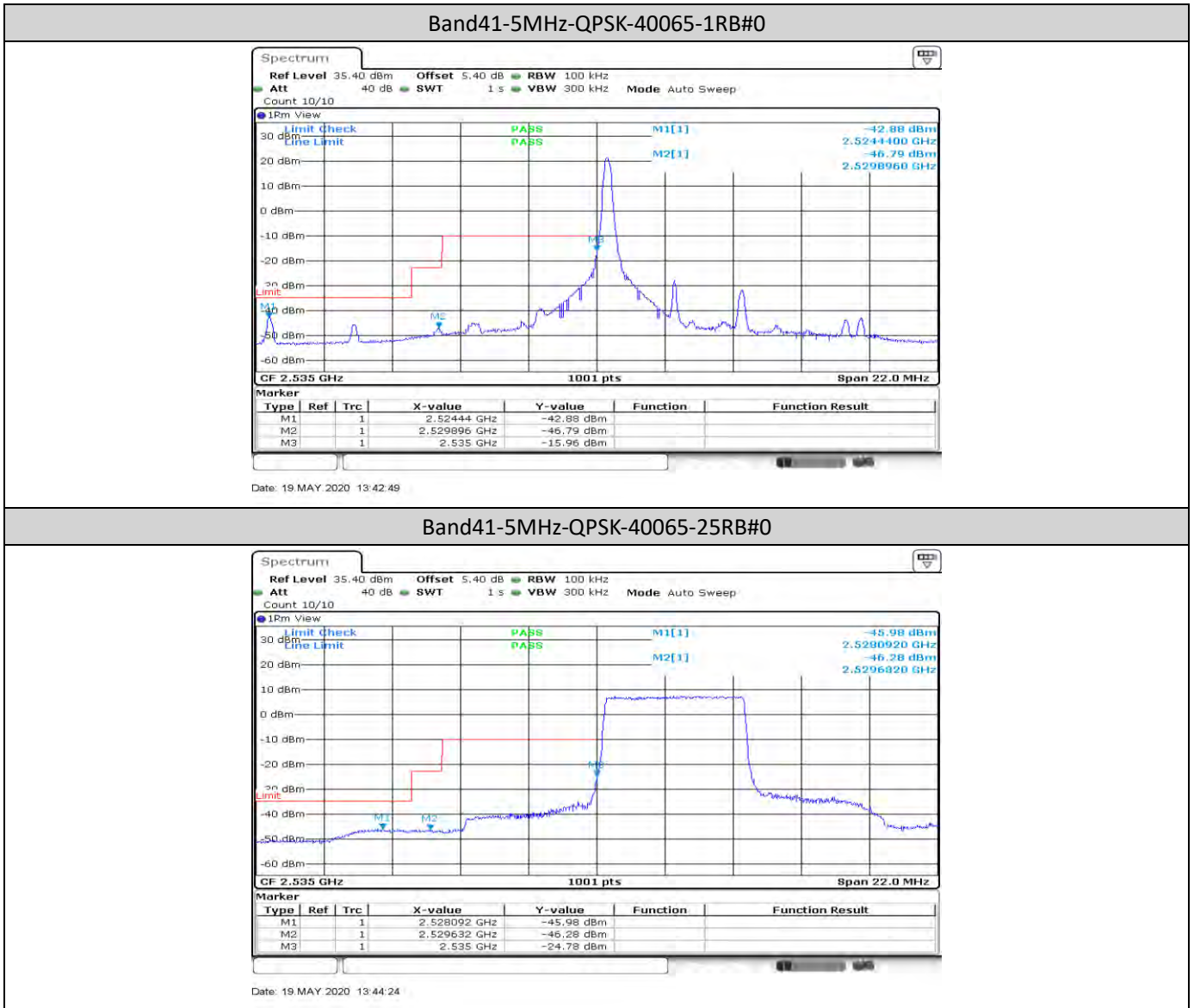


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## 5. Band Edge Compliance

### 5.1. Test Plots



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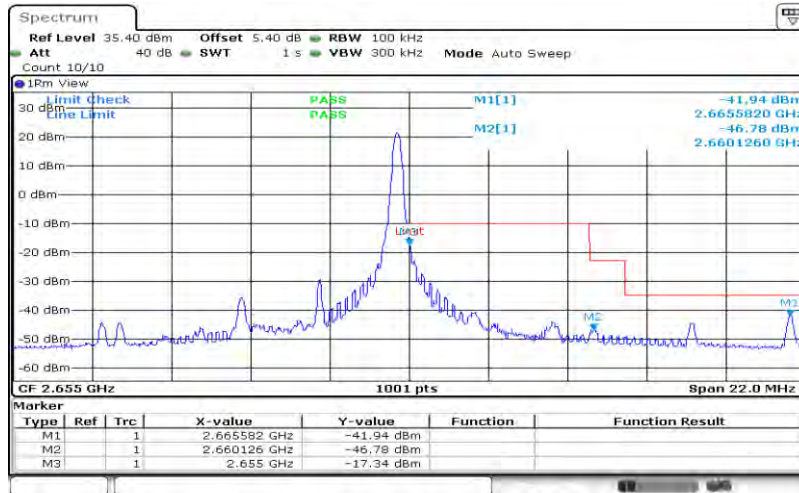
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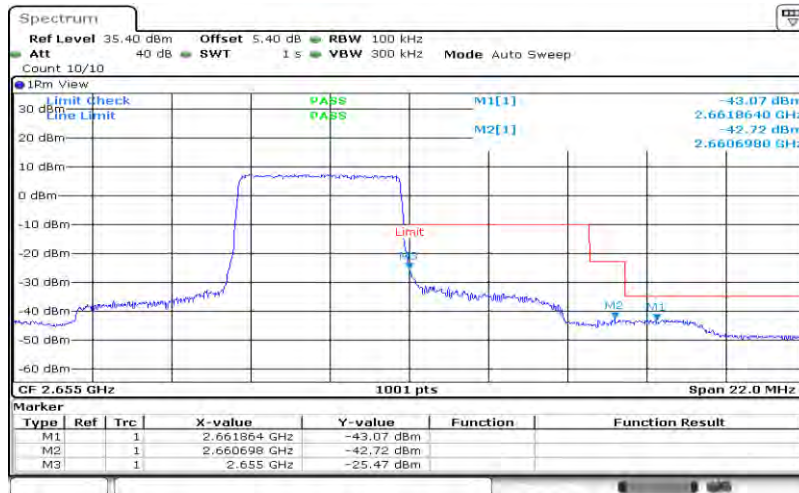


Band41-5MHz-QPSK-41215-1RB#24



Date: 19.MAY.2020 13:43:36

Band41-5MHz-QPSK-41215-25RB#0

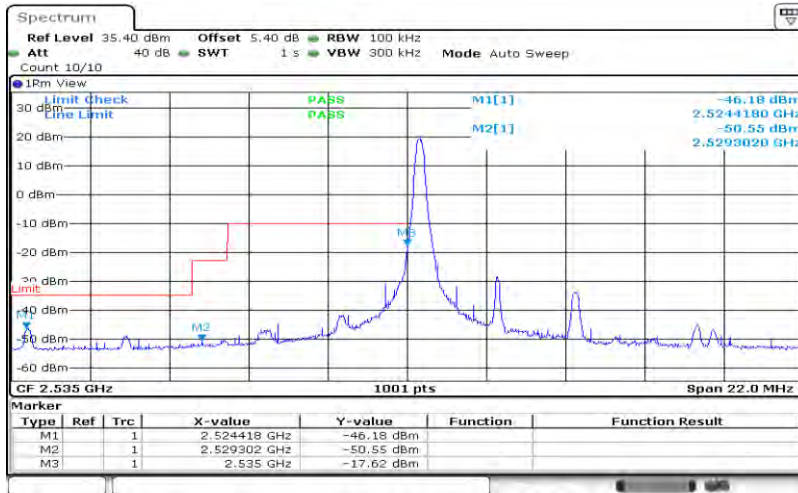


Date: 19.MAY.2020 13:45:08



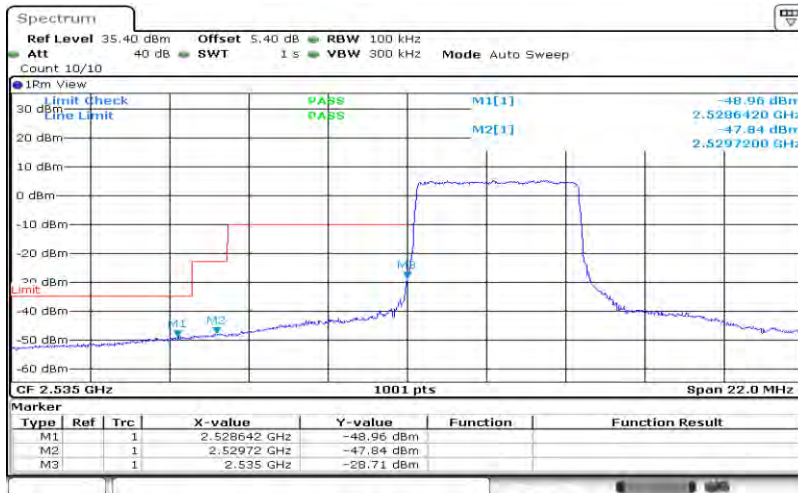
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**Band41-5MHz-64QAM-40065-1RB#0**



Date: 22.MAY.2020 11:31:25

**Band41-5MHz-64QAM-40065-25RB#0**



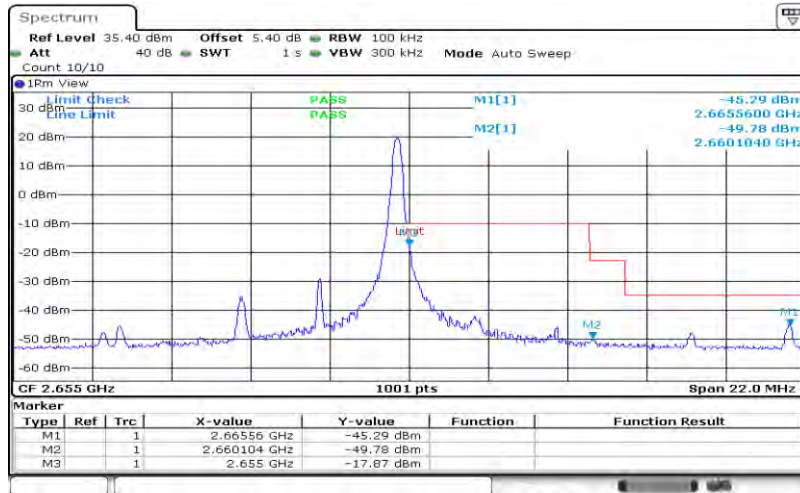
Date: 22.MAY.2020 11:32:17



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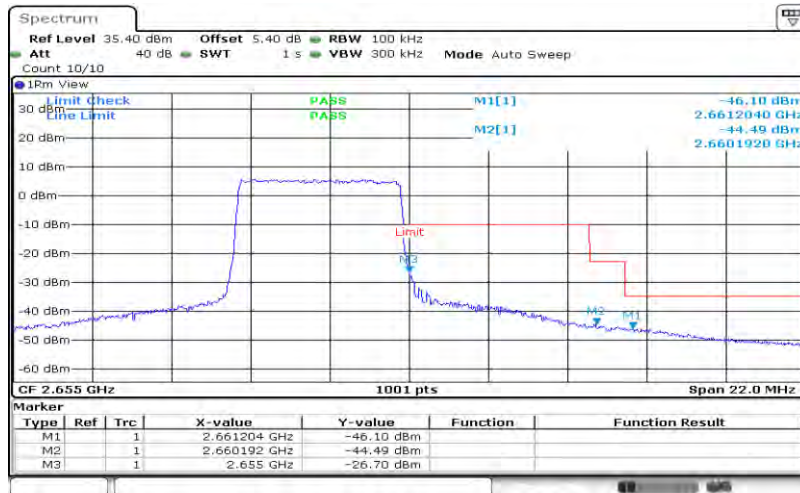
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**Band41-5MHz-64QAM-41215-1RB#24**



Date: 22.MAY.2020 11:31:51

**Band41-5MHz-64QAM-41215-25RB#0**

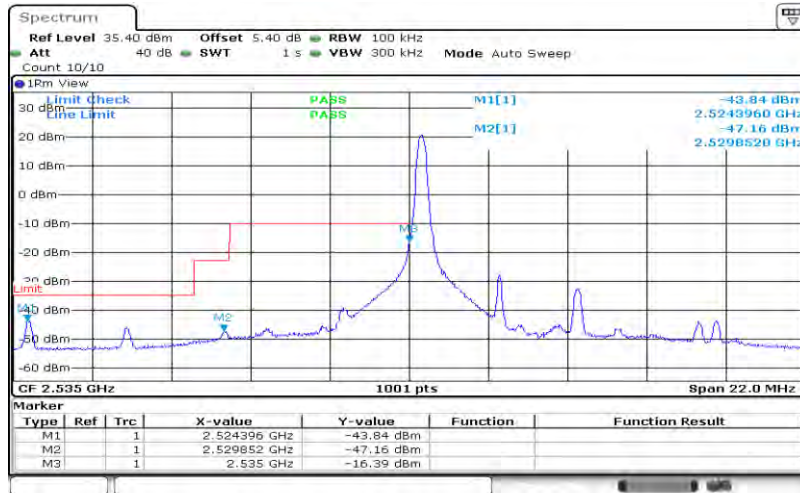


Date: 22.MAY.2020 11:32:39



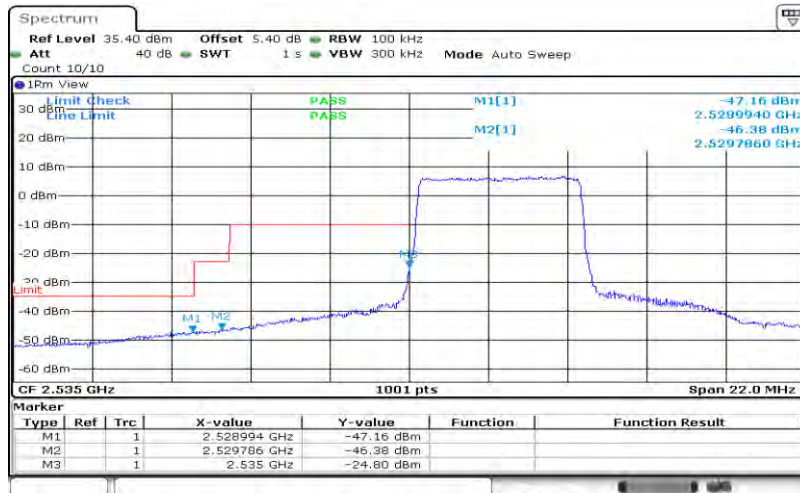
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**Band41-5MHz-16QAM-40065-1RB#0**



Date: 19.MAY.2020 13:43:10

**Band41-5MHz-16QAM-40065-25RB#0**



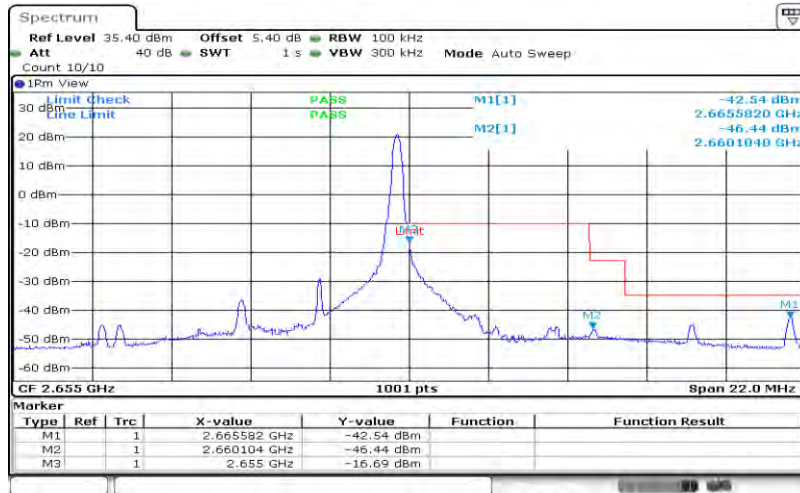
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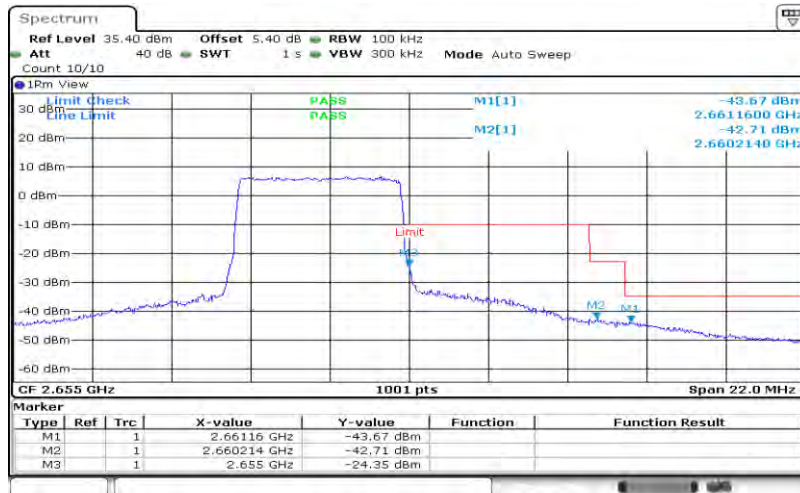


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Date: 19.MAY.2020 13:43:58

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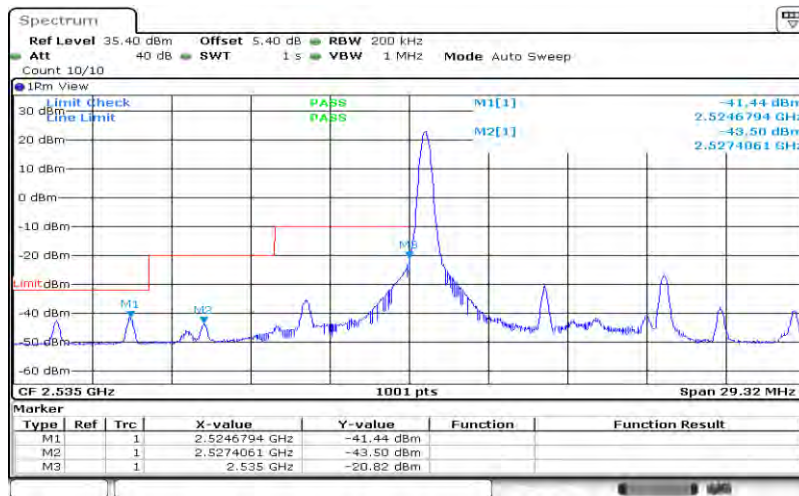


Date: 19.MAY.2020 13:45:30



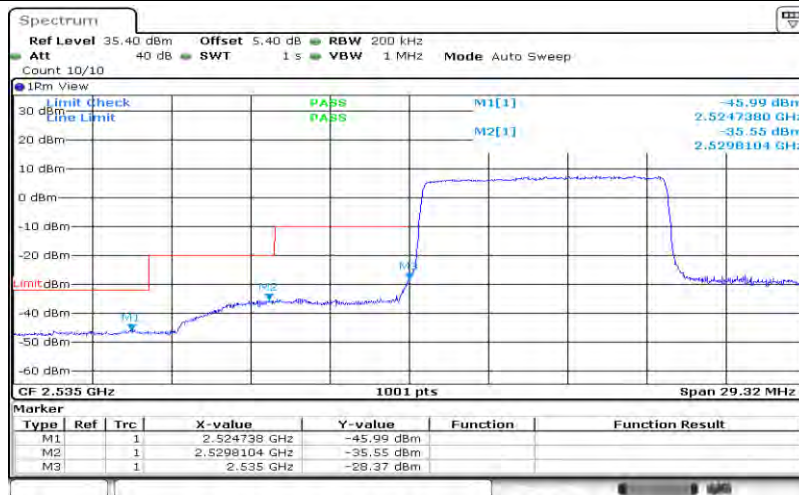
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**Band41-10MHz-QPSK-40090-1RB#0**



Date: 19.MAY.2020 13:45:56

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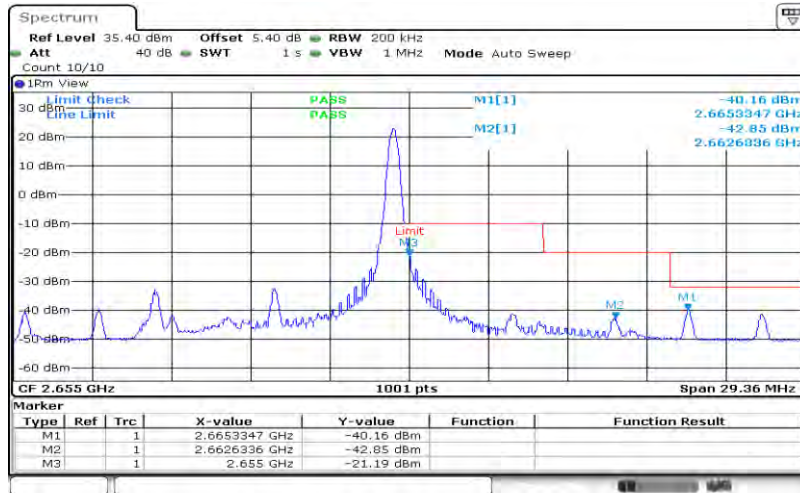
Date: 19.MAY.2020 13:47:34



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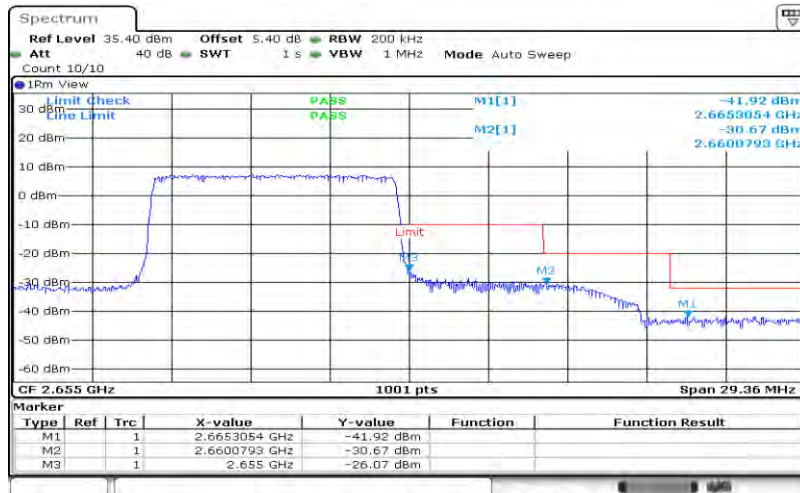


Band41-10MHz-QPSK-41190-1RB#49



Date: 19.MAY.2020 13:46:47

Band41-10MHz-QPSK-41190-50RB#0

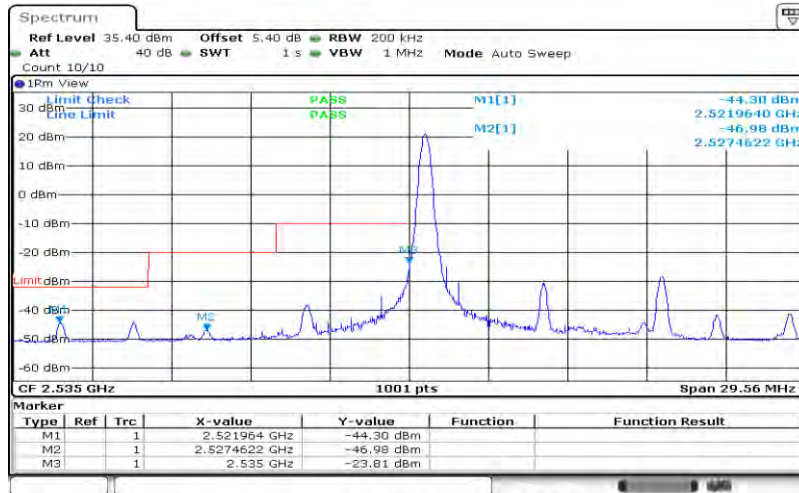


Date: 19.MAY.2020 13:48:18



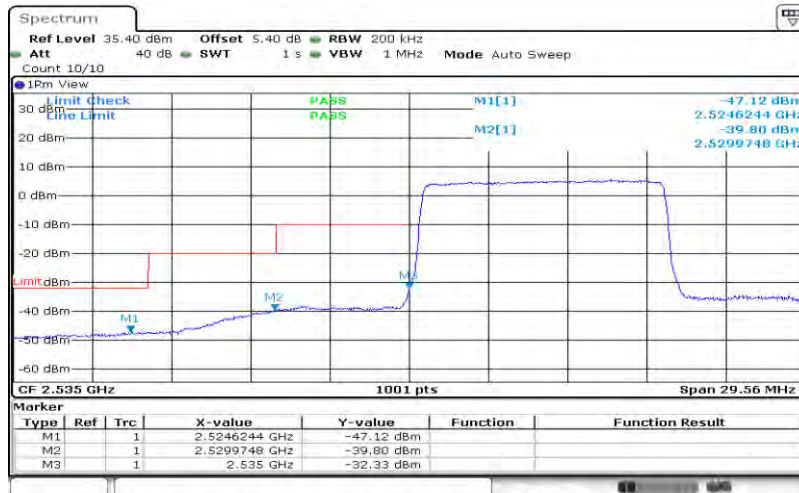
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**Band41-10MHz-64QAM-40090-1RB#0**



Date: 22.MAY.2020 11:33:06

**Band41-10MHz-64QAM-40090-50RB#0**



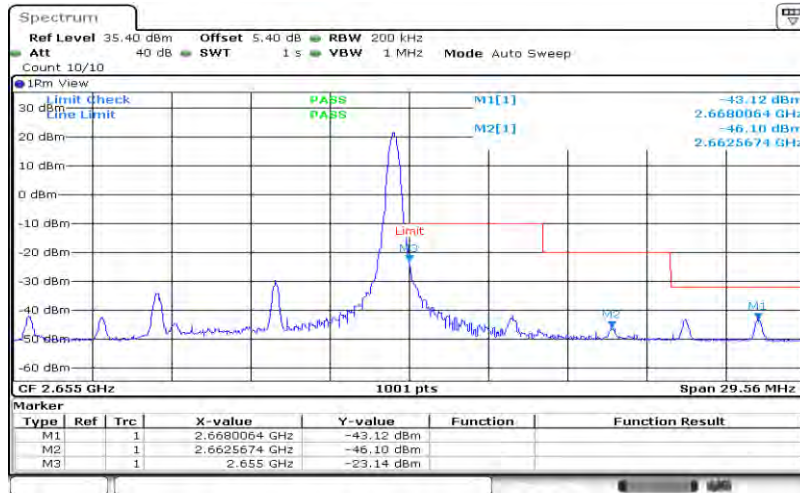
Date: 22.MAY.2020 11:33:58



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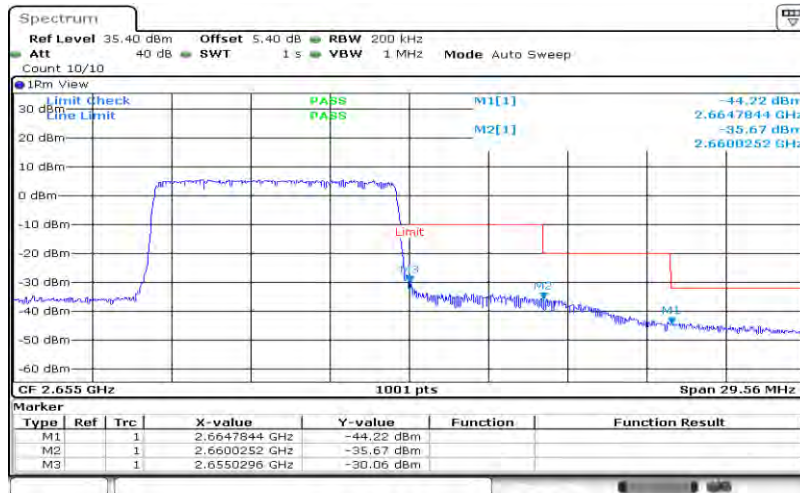
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**Band41-10MHz-64QAM-41190-1RB#49**



Date: 22.MAY.2020 11:33:32

**Band41-10MHz-64QAM-41190-50RB#0**



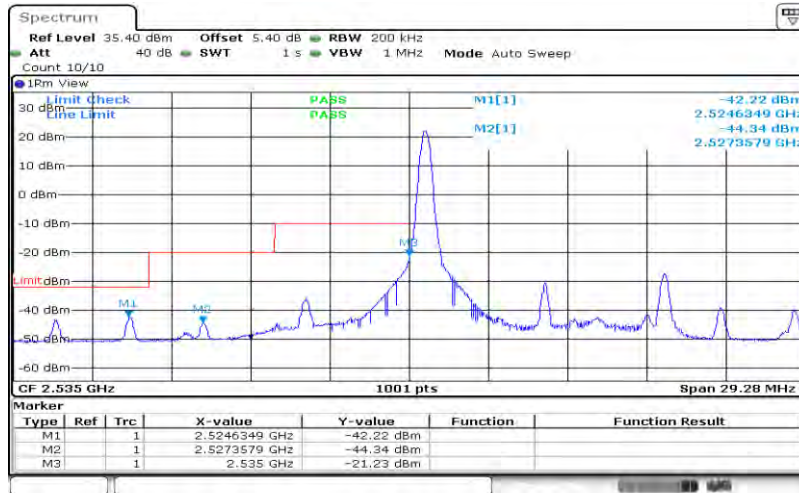
Date: 22.MAY.2020 11:34:20



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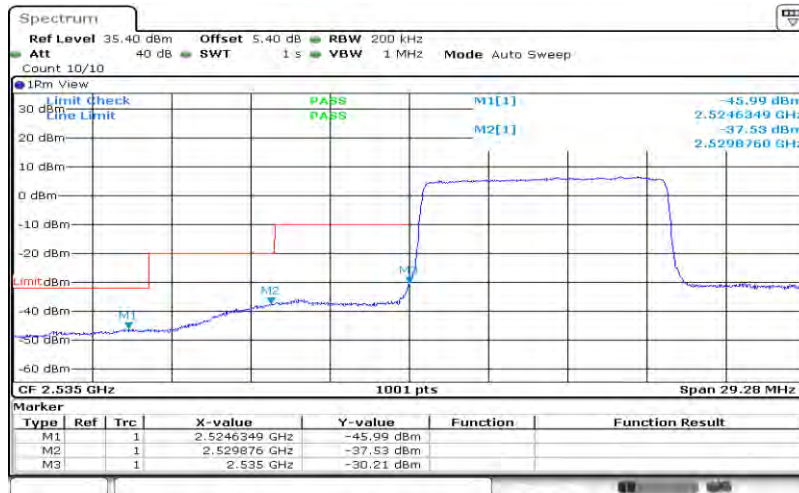


Band41-10MHz-16QAM-40090-1RB#0



Date: 19.MAY.2020 13:46:18

Band41-10MHz-16QAM-40090-50RB#0



Date: 19.MAY.2020 13:47:56



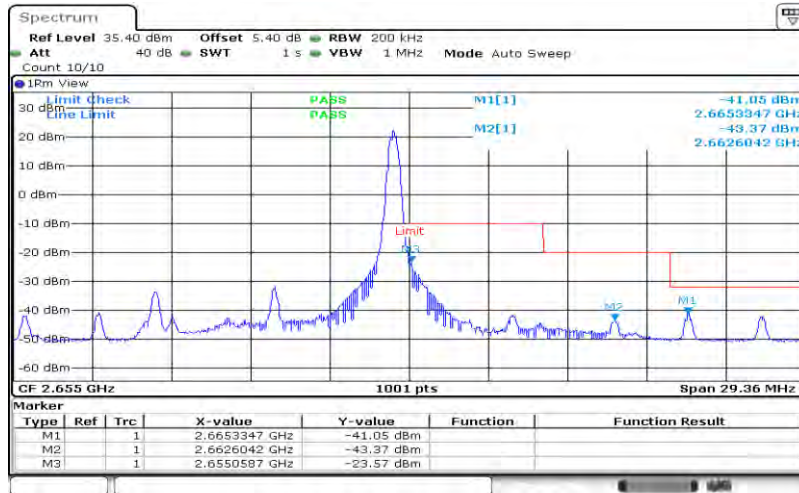
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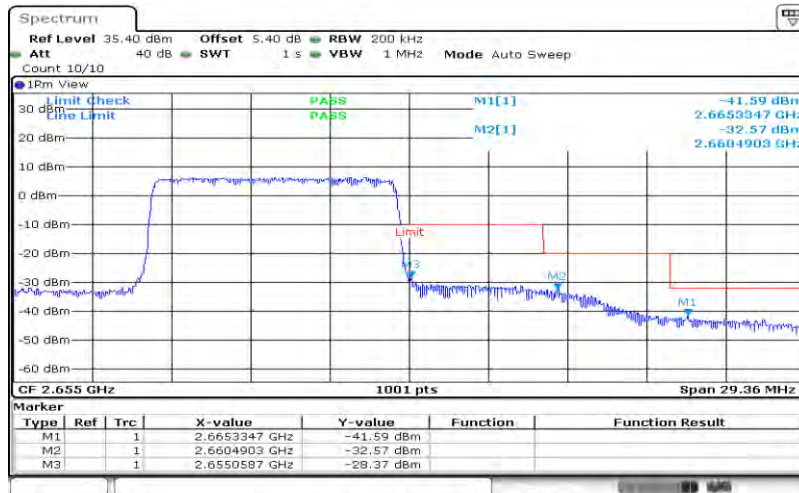


Band41-10MHz-16QAM-41190-1RB#49



Date: 19.MAY.2020 13:47:08

Band41-10MHz-16QAM-41190-50RB#0

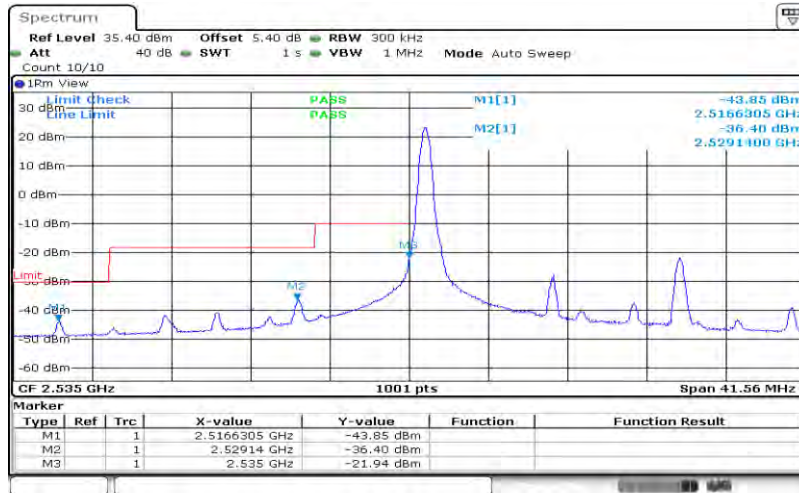


Date: 19.MAY.2020 13:48:40



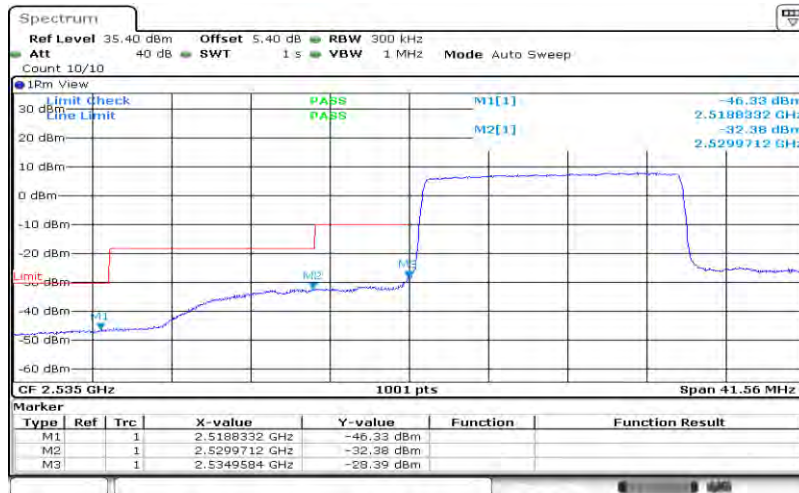
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**Band41-15MHz-QPSK-40115-1RB#0**



Date: 19.MAY.2020 13:49:06

**Band41-15MHz-QPSK-40115-75RB#0**

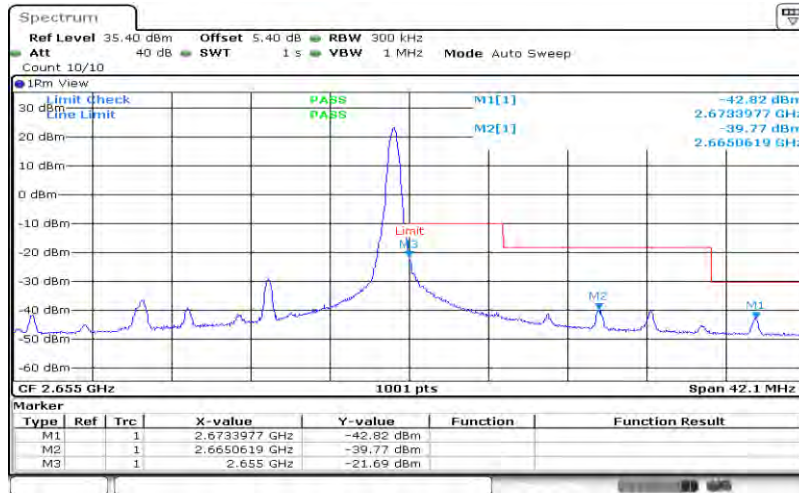


Date: 19.MAY.2020 13:50:41



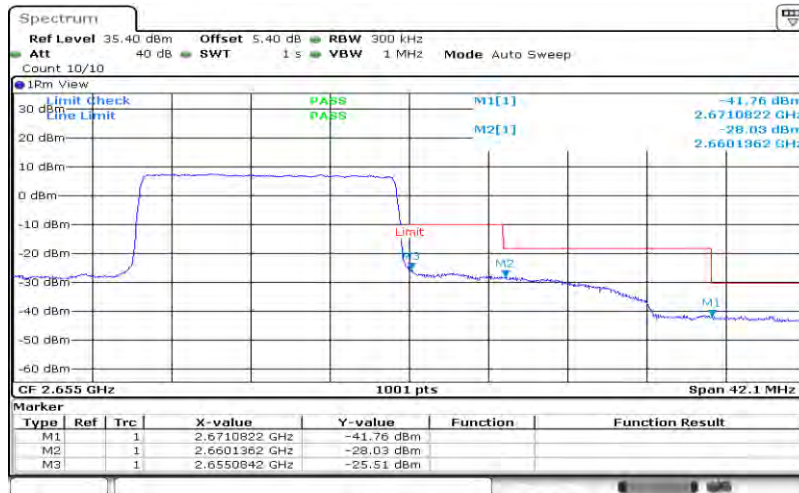
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**Band41-15MHz-QPSK-41165-1RB#74**



Date: 19.MAY.2020 13:49:54

**Band41-15MHz-QPSK-41165-75RB#0**

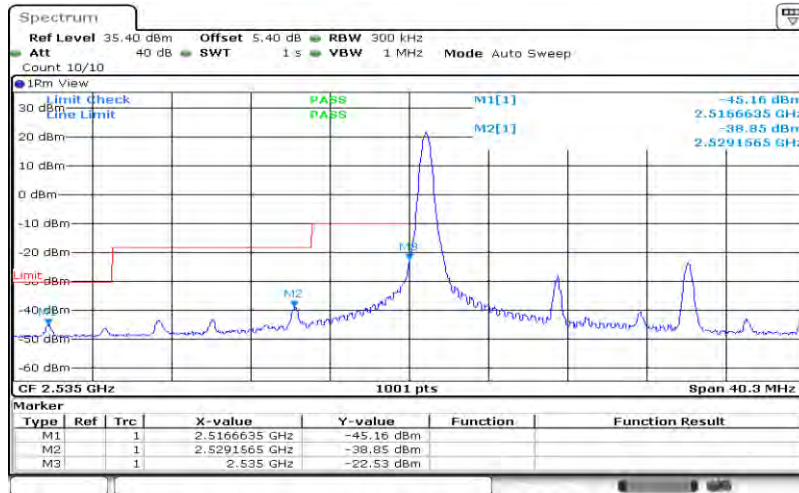


Date: 19.MAY.2020 13:51:25



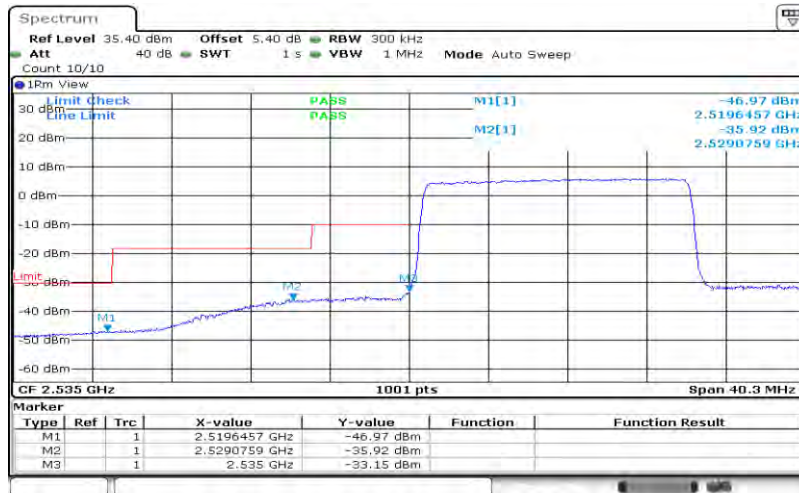
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**Band41-15MHz-64QAM-40115-1RB#0**



Date: 22.MAY.2020 11:34:47

**Band41-15MHz-64QAM-40115-75RB#0**



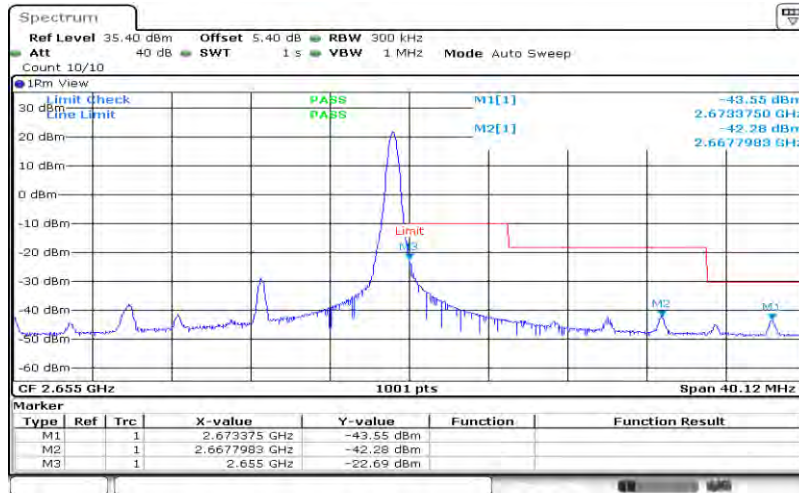
Date: 22.MAY.2020 11:35:39



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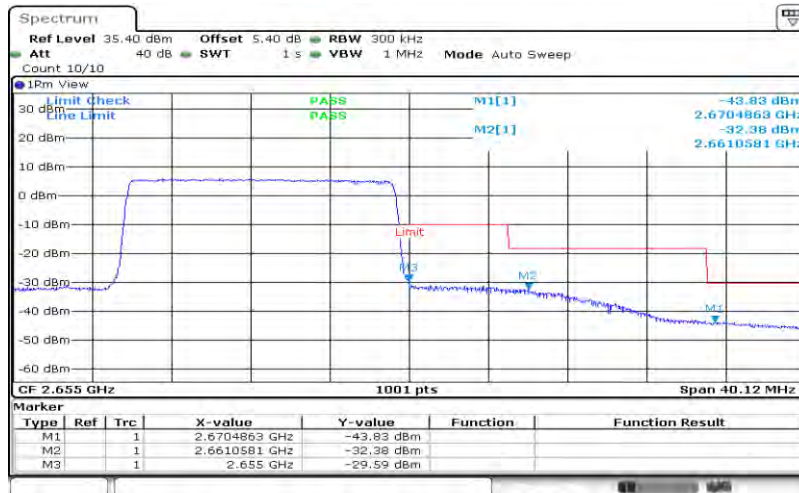
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**Band41-15MHz-64QAM-41165-1RB#74**



Date: 22.MAY.2020 11:35:13

**Band41-15MHz-64QAM-41165-75RB#0**

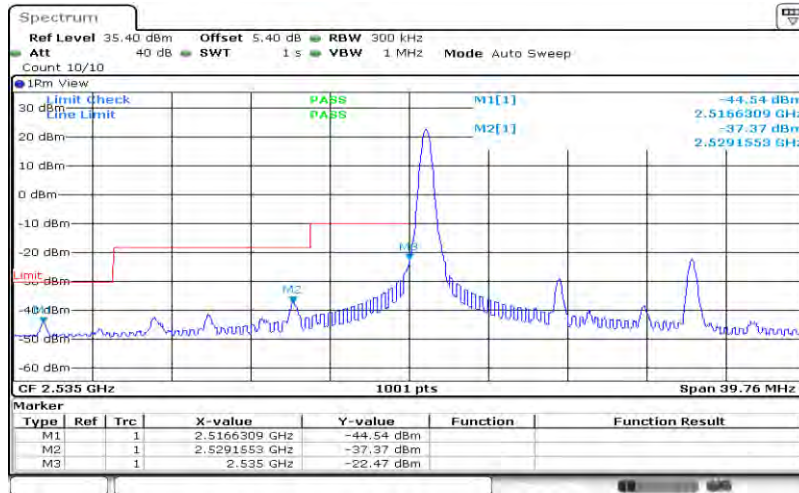


Date: 22.MAY.2020 11:36:01



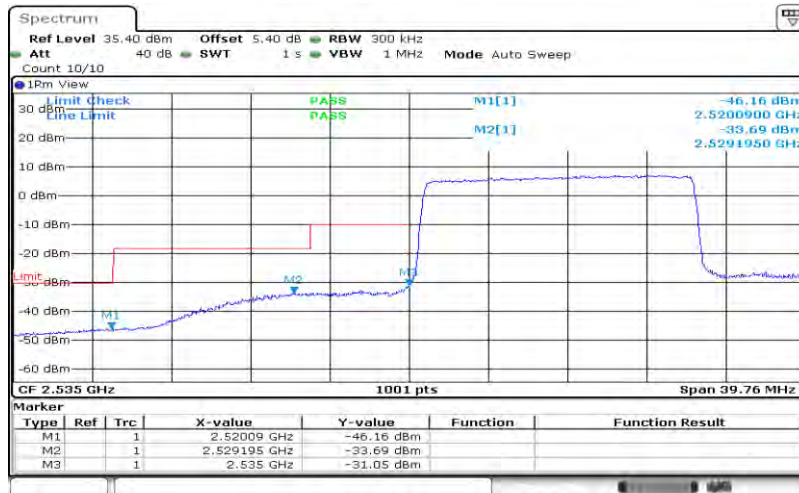
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**Band41-15MHz-16QAM-40115-1RB#0**



Date: 19.MAY.2020 13:49:28

**Band41-15MHz-16QAM-40115-75RB#0**



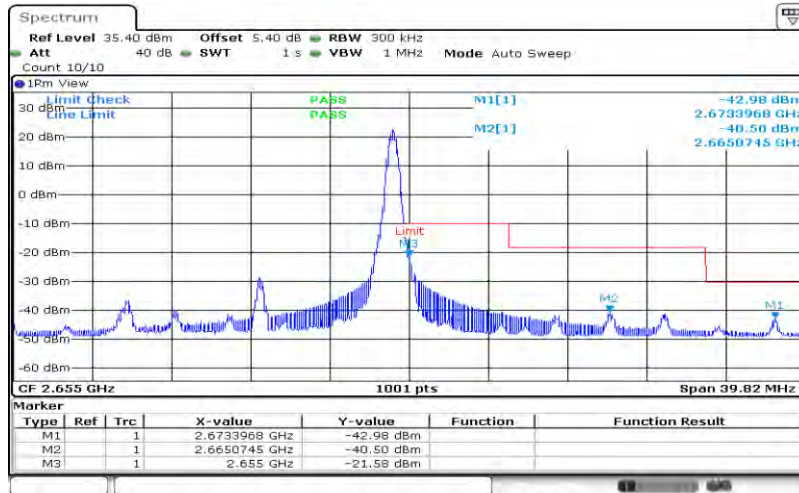
Date: 19.MAY.2020 13:51:03



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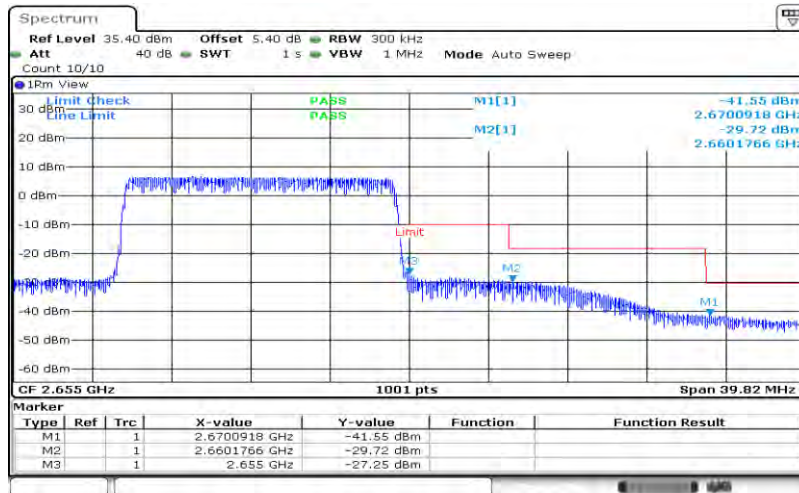


Band41-15MHz-16QAM-41165-1RB#74



Date: 19.MAY.2020 13:50:15

Band41-15MHz-16QAM-41165-75RB#0



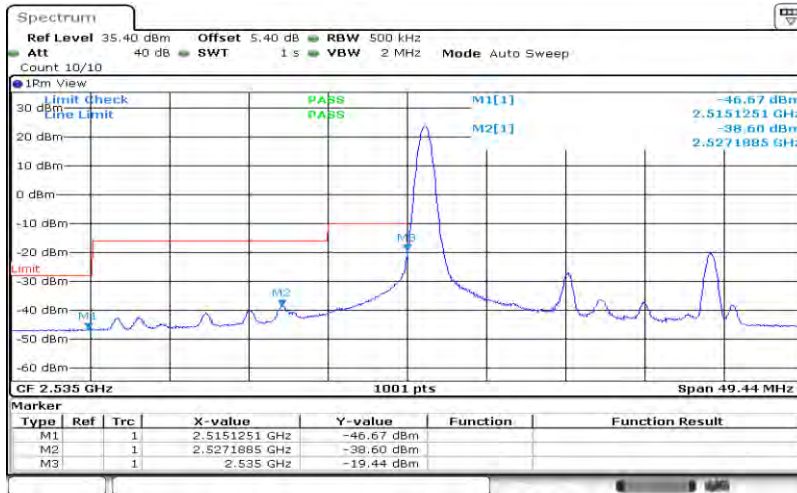
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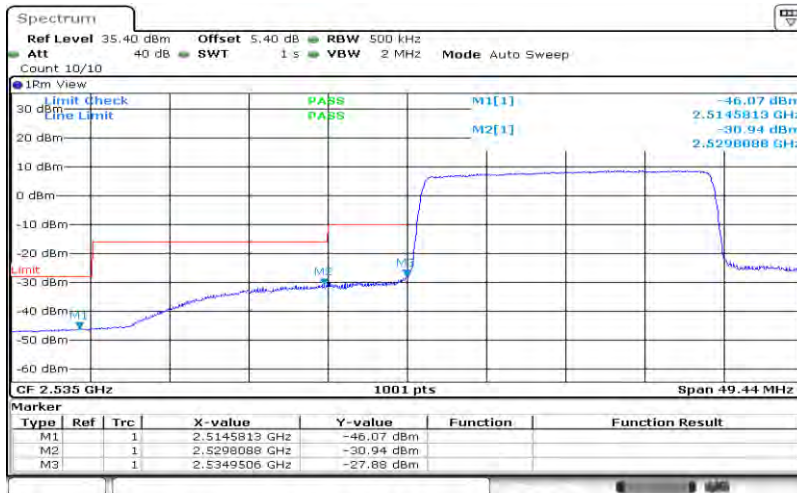


Band41-20MHz-QPSK-40140-1RB#0



Date: 19.MAY.2020 13:52:13

Band41-20MHz-QPSK-40140-100RB#0

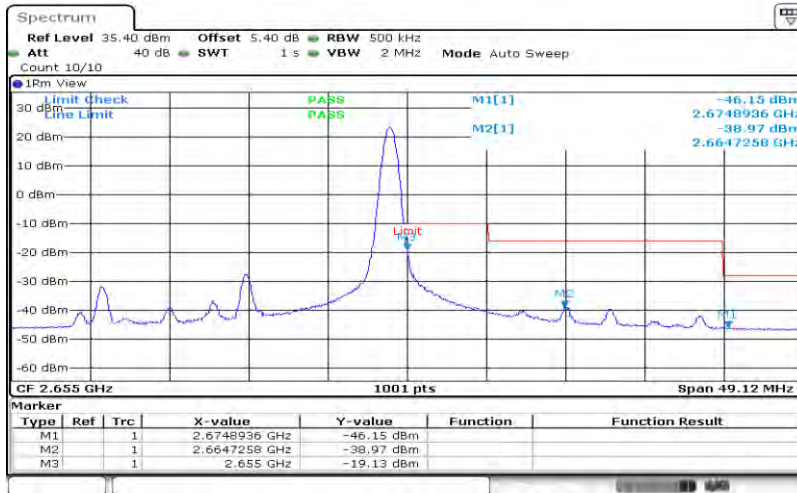


Date: 19.MAY.2020 13:53:48



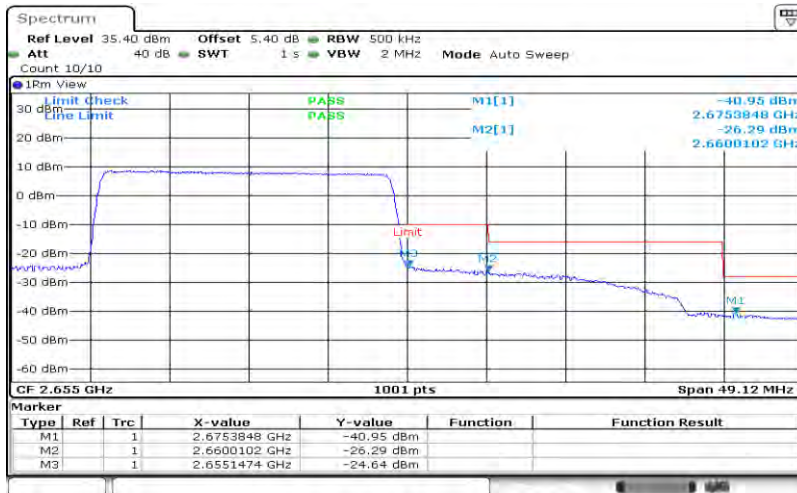
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**Band41-20MHz-QPSK-41140-1RB#99**



Date: 19.MAY.2020 13:53:00

**Band41-20MHz-QPSK-41140-100RB#0**

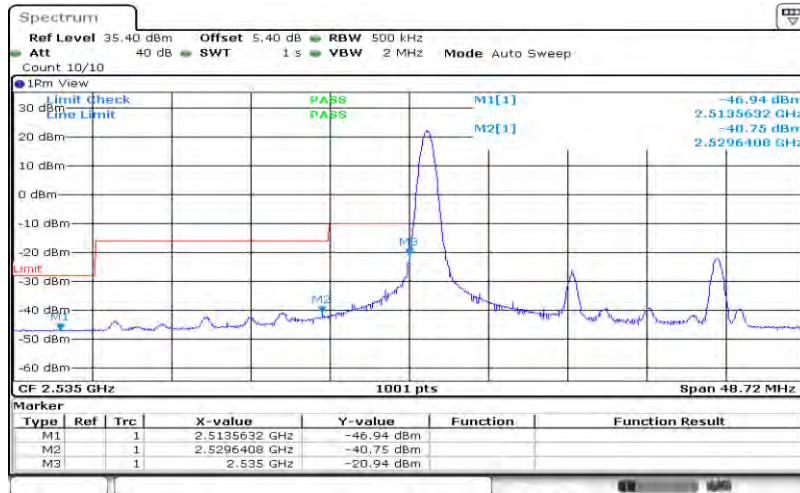


Date: 19.MAY.2020 13:54:31



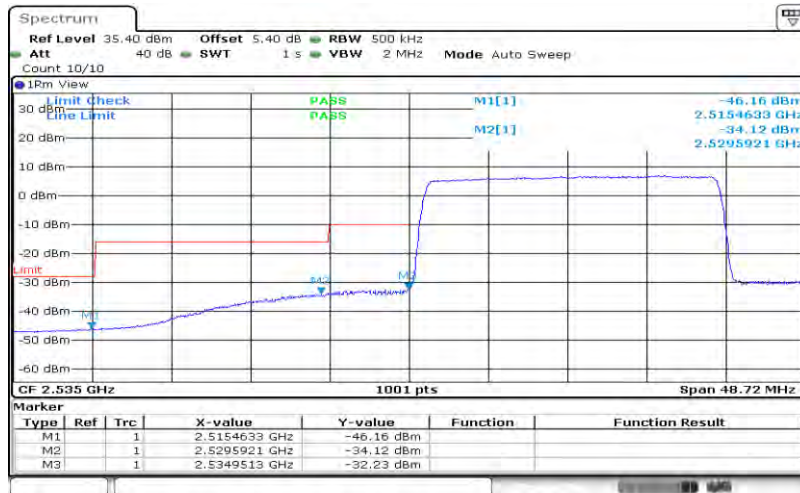
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**Band41-20MHz-64QAM-40140-1RB#0**



Date: 22.MAY.2020 11:36:28

**Band41-20MHz-64QAM-40140-100RB#0**



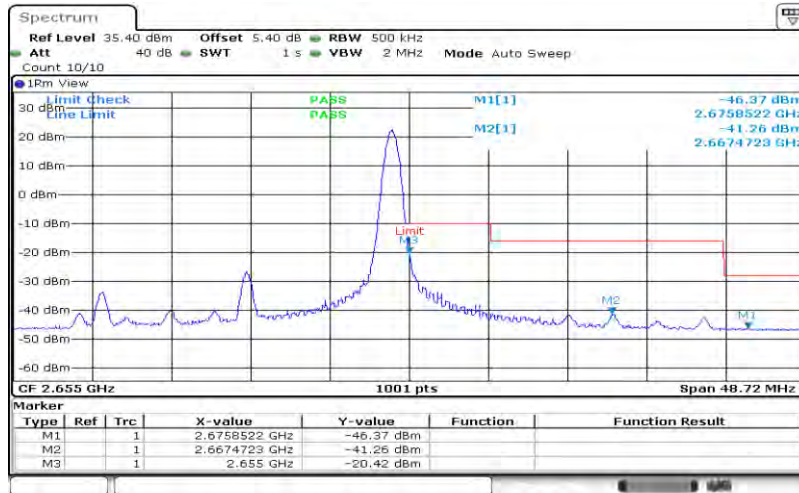
Date: 22.MAY.2020 11:37:20



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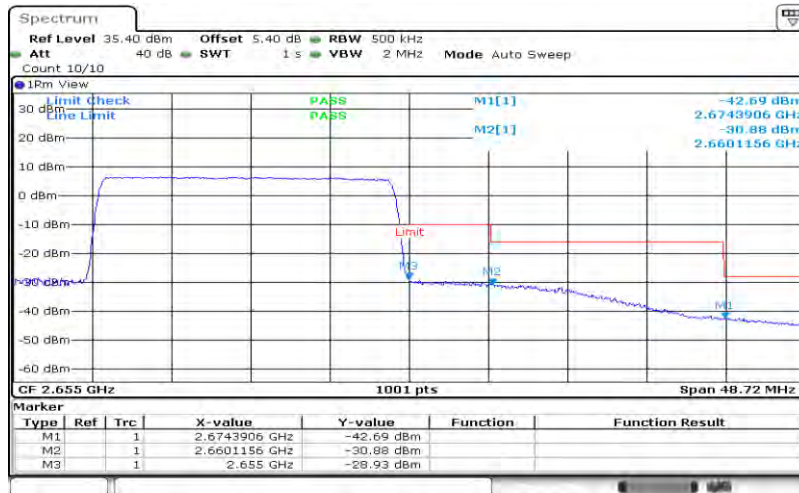


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Date: 22.MAY.2020 11:36:54

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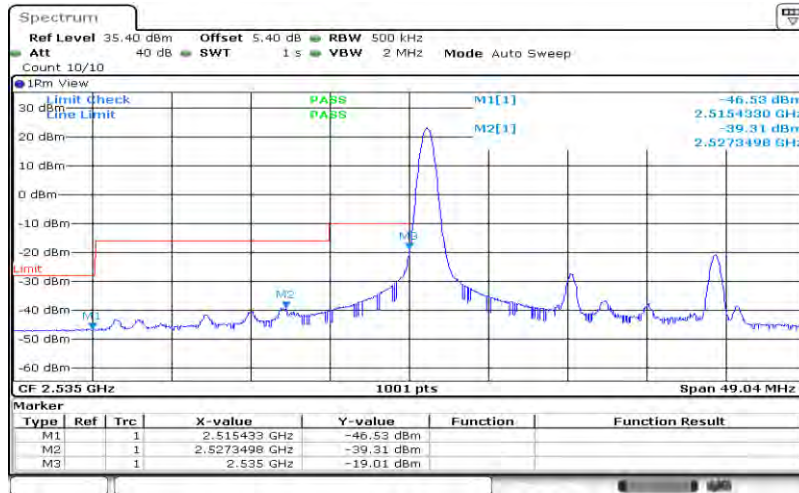
Date: 22.MAY.2020 11:37:43



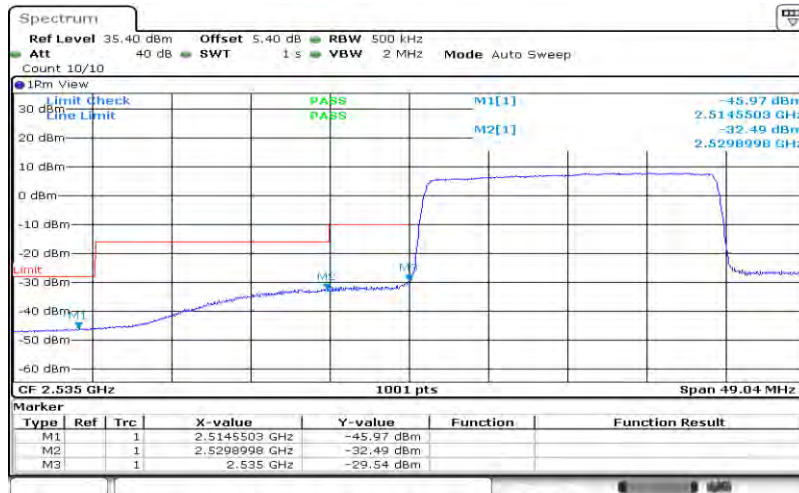
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Band41-20MHz-16QAM-40140-1RB#0



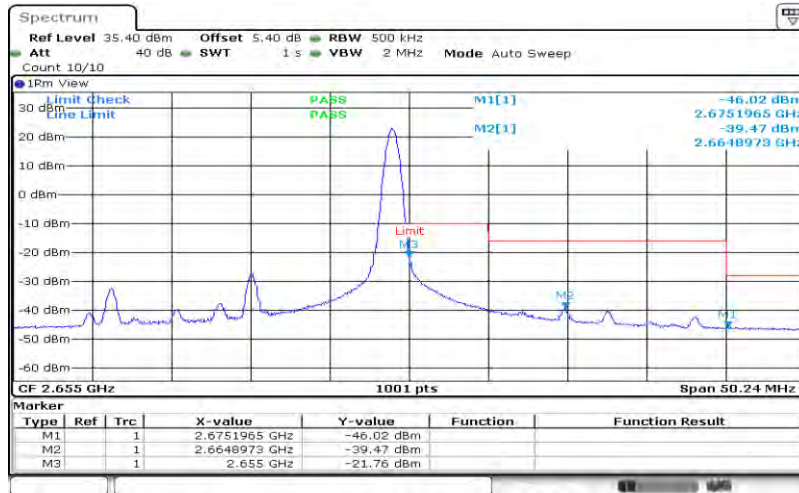
Band41-20MHz-16QAM-40140-100RB#0



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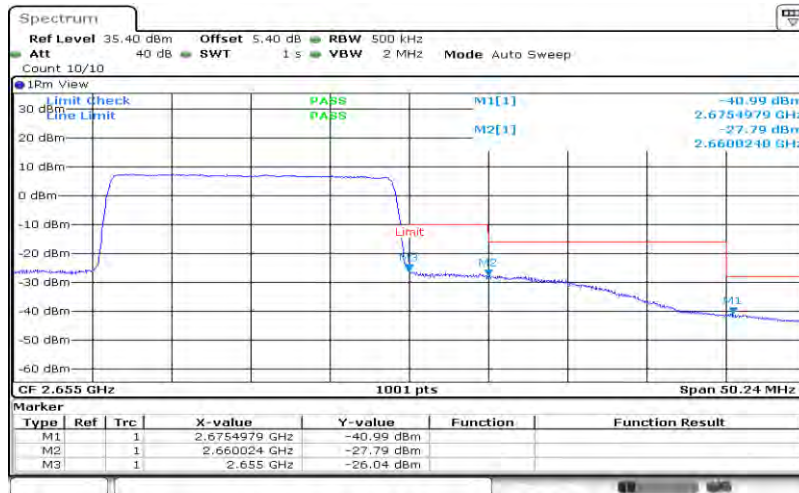


Band41-20MHz-16QAM-41140-1RB#99



Date: 19.MAY.2020 13:53:22

Band41-20MHz-16QAM-41140-100RB#0



Date: 19.MAY.2020 13:54:53



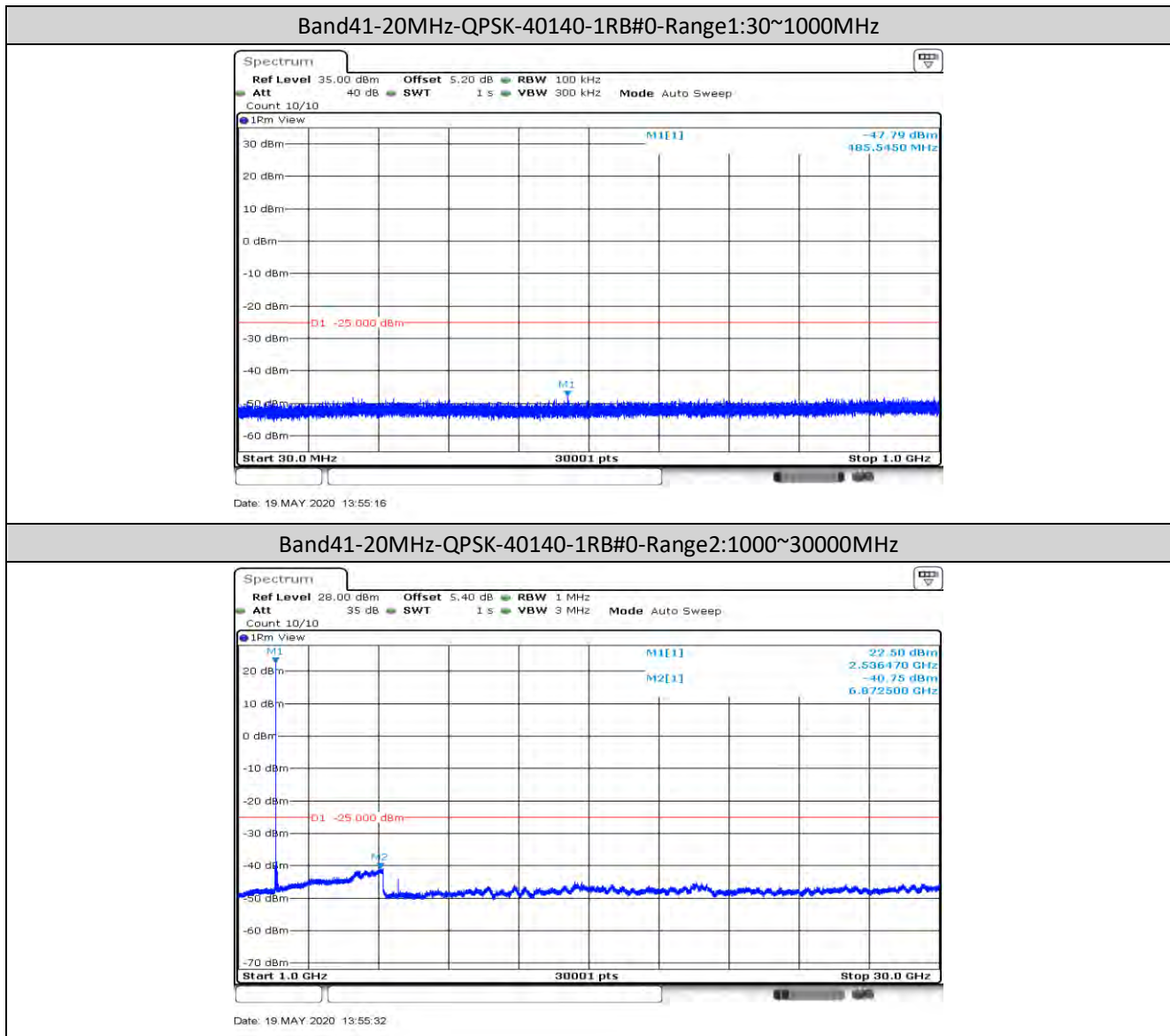
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## 6. Spurious Emission at Antenna Terminal

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.

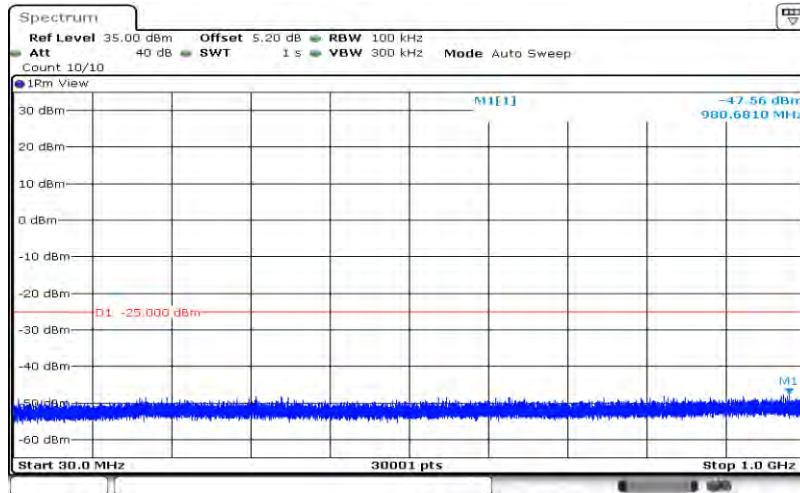
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



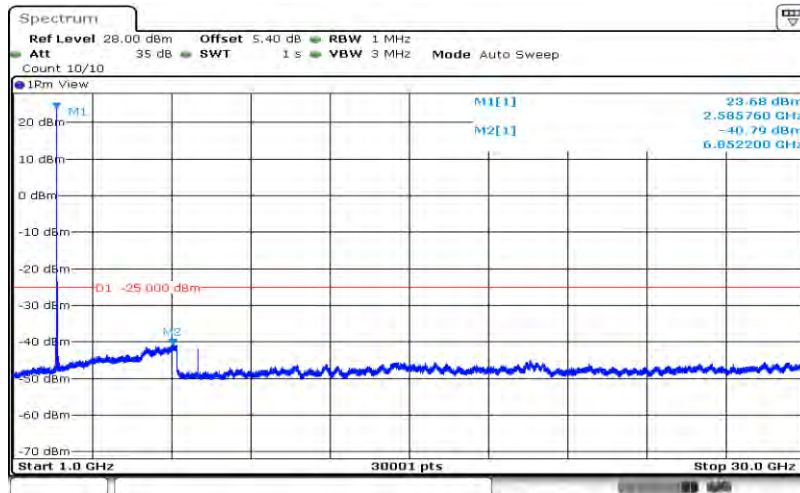
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**Band41-20MHz-QPSK-40640-1RB#0-Range1:30~100MHz**



Date: 19.MAY.2020 13:56:27

**Band41-20MHz-QPSK-40640-1RB#0-Range2:100~30000MHz**

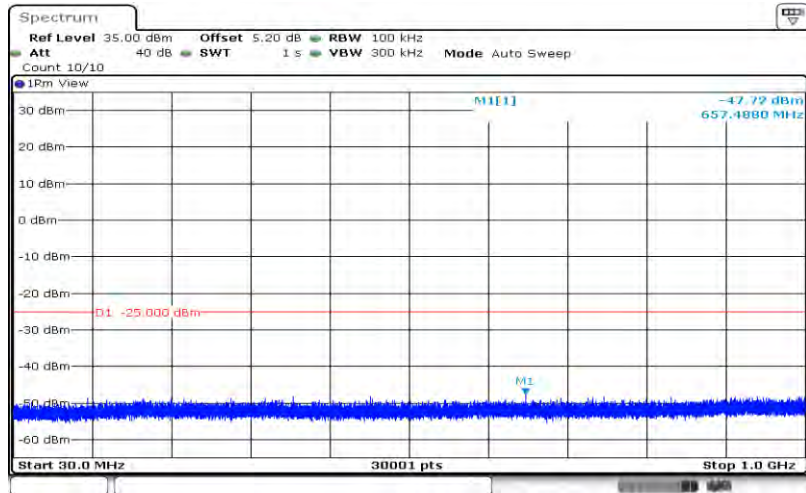


Date: 19.MAY.2020 13:56:43



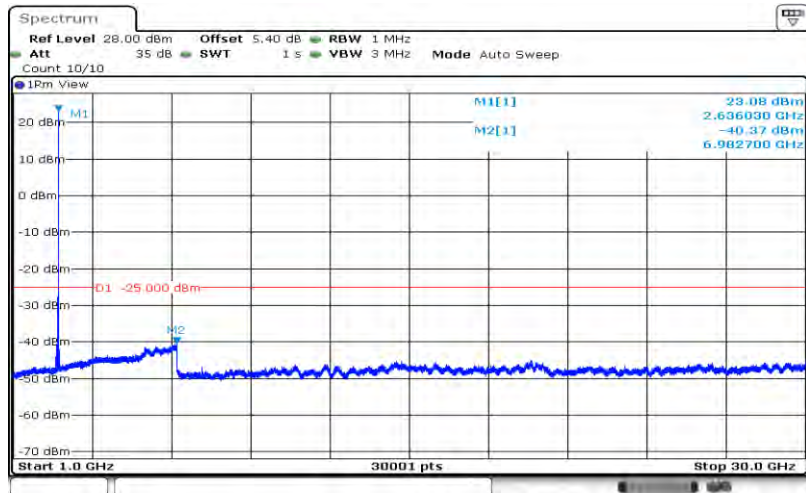
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**Band41-20MHz-QPSK-41140-1RB#0-Range1:30~100MHz**



Date: 19.MAY.2020 13:57:37

**Band41-20MHz-QPSK-41140-1RB#0-Range2:100~30000MHz**

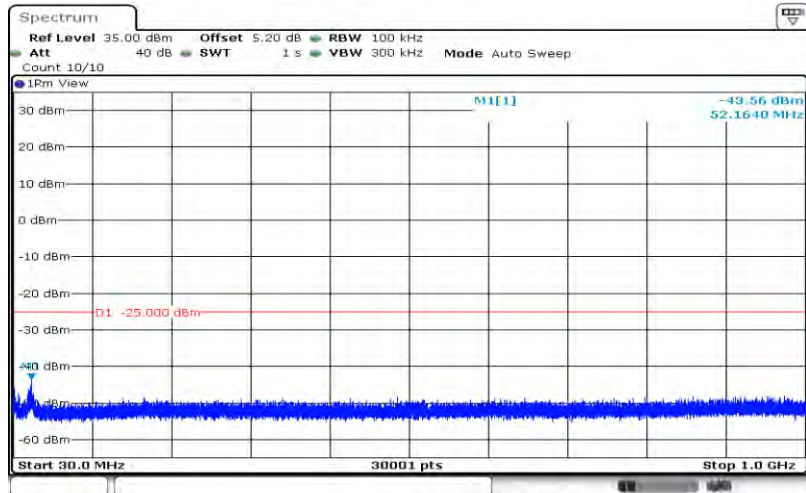


Date: 19.MAY.2020 13:57:53



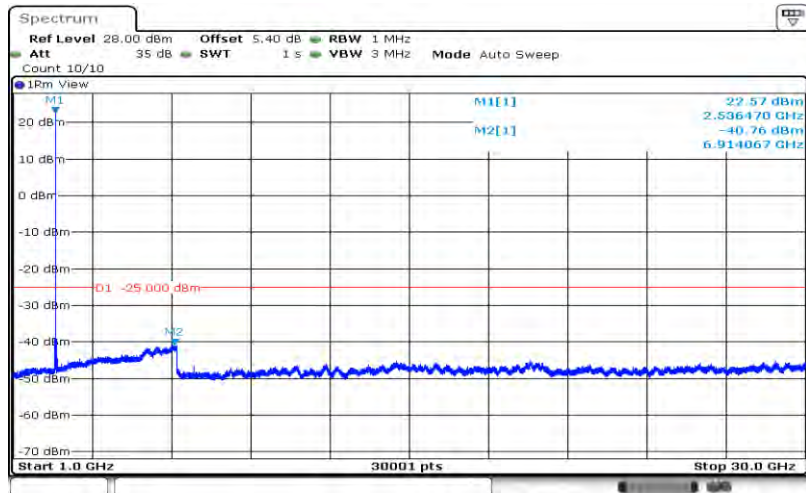
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**Band41-20MHz-64QAM-40140-1RB#0-Range1:30~1000MHz**



Date: 22.MAY.2020 11:38:06

**Band41-20MHz-64QAM-40140-1RB#0-Range2:1000~30000MHz**

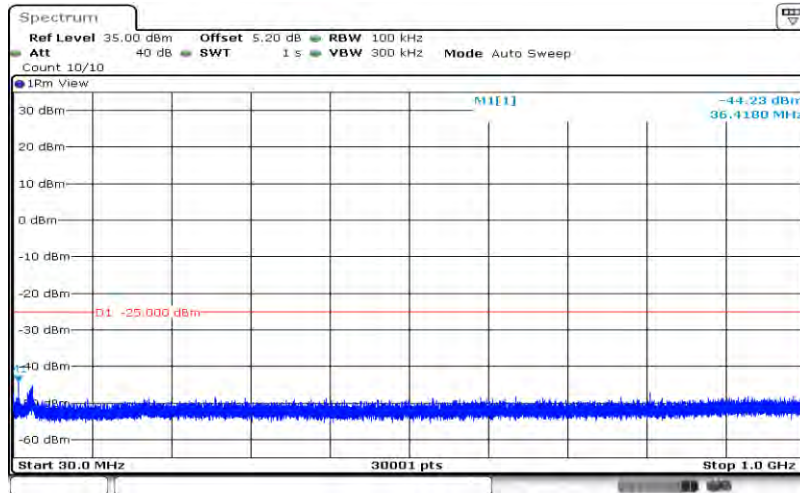


Date: 22.MAY.2020 11:38:22



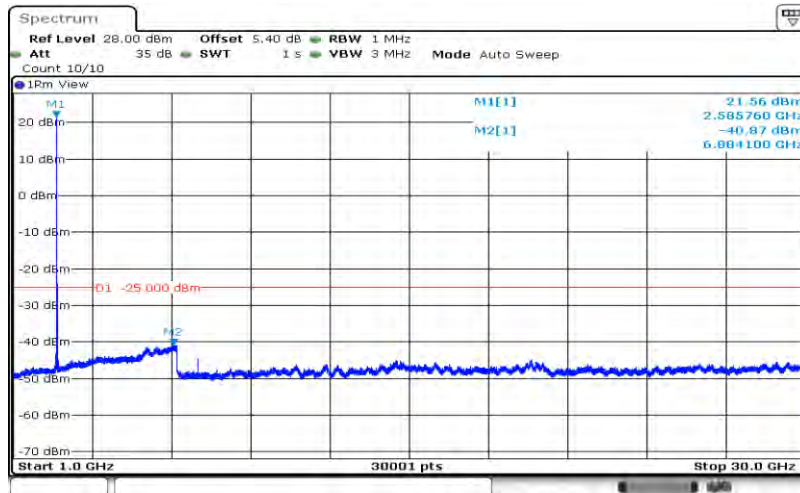
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**Band41-20MHz-64QAM-40640-1RB#0-Range1:30~1000MHz**



Date: 22.MAY.2020 11:38:41

**Band41-20MHz-64QAM-40640-1RB#0-Range2:1000~30000MHz**

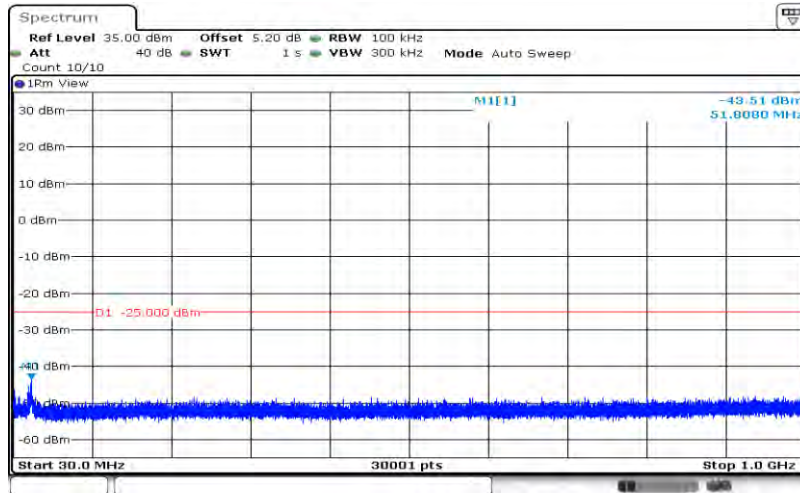


Date: 22.MAY.2020 11:38:58



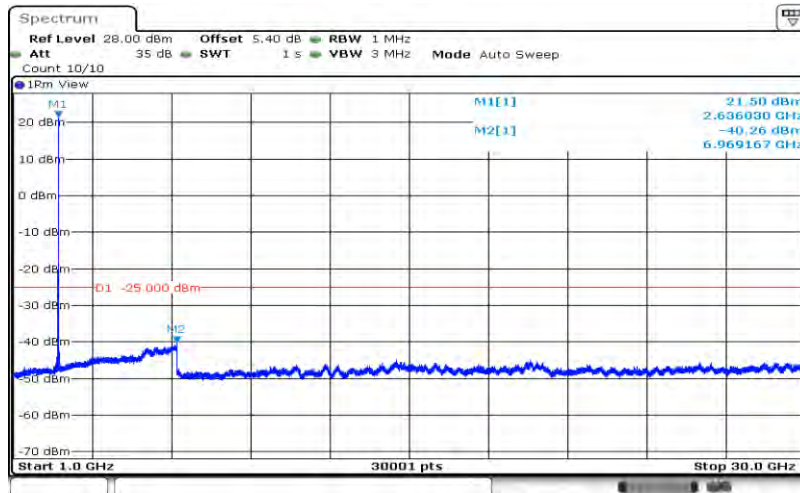
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**Band41-20MHz-64QAM-41140-1RB#0-Range1:30~1000MHz**



Date: 22.MAY.2020 11:39:17

**Band41-20MHz-64QAM-41140-1RB#0-Range2:1000~30000MHz**



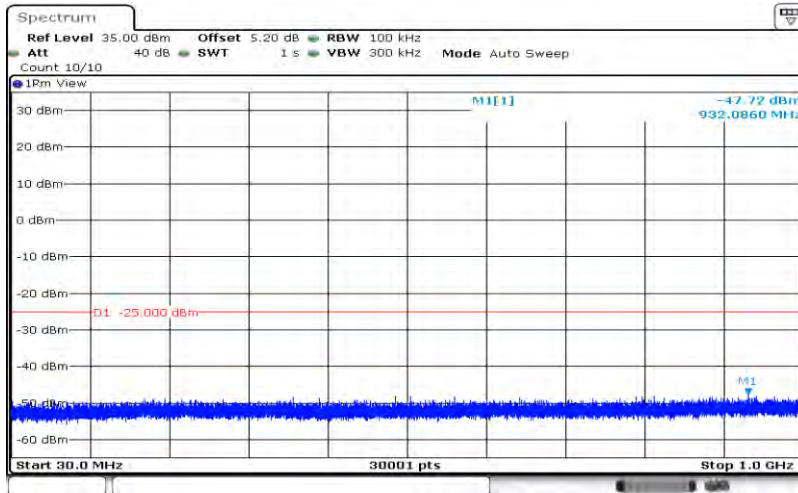
Date: 22.MAY.2020 11:39:33



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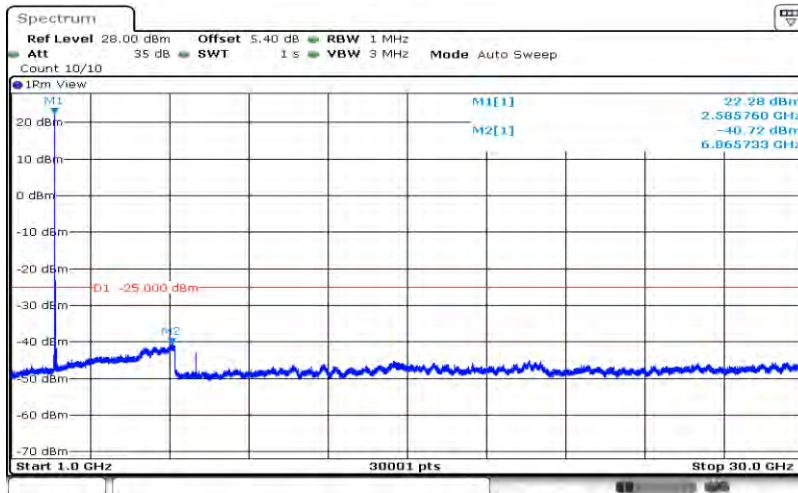


**Band41-20MHz-16QAM-40640-1RB#0-Range1:30~1000MHz**



Date: 19.MAY.2020 13:57:02

**Band41-20MHz-16QAM-40640-1RB#0-Range2:1000~30000MHz**

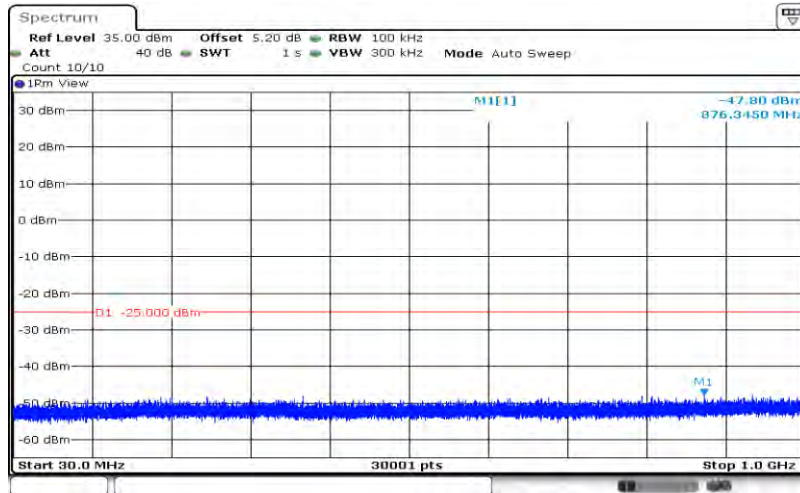


Date: 19.MAY.2020 13:57:18

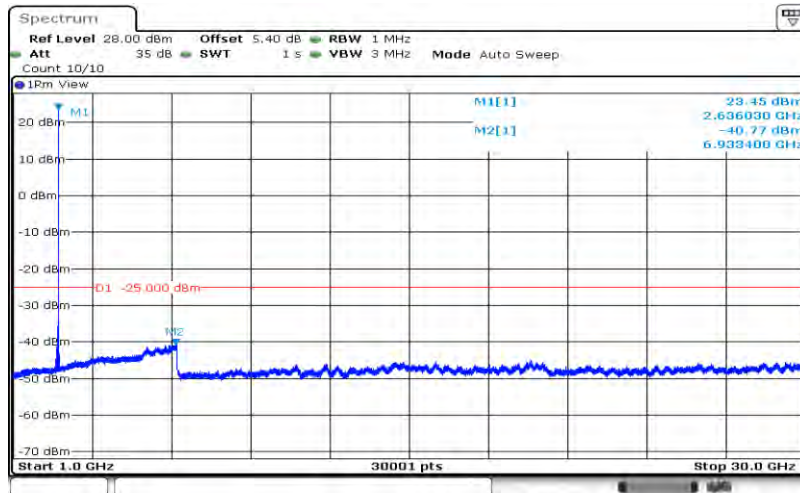


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**Band41-20MHz-16QAM-41140-1RB#0-Range1:30~1000MHz**



**Band41-20MHz-16QAM-41140-1RB#0-Range2:1000~30000MHz**



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## 7. Field Strength of Spurious Radiation

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

#### 7.1.1. Test Channel = LCH

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
40.2340	-71.93	-65.16	-25.00	40.16	153	353	Horizontal
704.9597	-72.56	-64.08	-25.00	39.08	127	258	Horizontal
1785.7572	-69.33	-43.61	-25.00	18.61	188	165	Horizontal
5072.0691	-50.31	-57.09	-25.00	32.09	120	195	Horizontal
10581.7527	-58.04	-51.86	-25.00	26.86	264	101	Horizontal
16397.4466	-58.21	-43.81	-25.00	18.81	207	353	Horizontal
118.8564	-70.70	-65.07	-25.00	40.07	252	130	Vertical
1785.7572	-69.08	-43.83	-25.00	18.83	166	151	Vertical
5072.0691	-47.34	-54.37	-25.00	29.37	289	288	Vertical
7608.6536	-51.28	-51.83	-25.00	26.83	153	98	Vertical
14478.3826	-59.27	-46.94	-25.00	21.94	233	98	Vertical
17996.4999	-57.57	-39.78	-25.00	14.78	187	288	Vertical

#### 7.1.2. Test Channel = MCH

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
44.9387	-71.23	-64.21	-25.00	39.21	185	353	Horizontal
611.9806	-71.84	-64.14	-25.00	39.14	163	194	Horizontal
1795.3591	-69.31	-43.37	-25.00	18.37	152	69	Horizontal
5168.5723	-51.13	-57.83	-25.00	32.83	194	226	Horizontal
7752.1584	-51.87	-53.02	-25.00	28.02	156	353	Horizontal
16409.9470	-57.81	-43.62	-25.00	18.62	111	226	Horizontal
109.3500	-71.48	-65.22	-25.00	40.22	136	256	Vertical
1784.5569	-69.33	-44.08	-25.00	19.08	197	173	Vertical
5168.0723	-47.14	-54.19	-25.00	29.19	185	288	Vertical
7752.6584	-48.23	-48.96	-25.00	23.96	152	98	Vertical
14473.8825	-59.80	-47.50	-25.00	22.50	111	256	Vertical
17981.4994	-57.28	-39.86	-25.00	14.86	176	130	Vertical



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**7.1.3. Test Channel = HCH**

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
43.6777	-71.65	-64.70	-25.00	39.70	187	295	Horizontal
497.0299	-71.34	-66.22	-25.00	41.22	155	227	Horizontal
1802.1604	-69.36	-43.34	-25.00	18.34	162	314	Horizontal
5272.0757	-52.77	-59.91	-25.00	34.91	117	227	Horizontal
7908.6636	-50.47	-50.36	-25.00	25.36	198	359	Horizontal
16369.9457	-57.95	-44.04	-25.00	19.04	158	227	Horizontal
106.0033	-71.26	-65.78	-25.00	40.78	177	4	Vertical
1802.1604	-69.18	-43.92	-25.00	18.92	151	340	Vertical
5272.0757	-43.66	-51.27	-25.00	26.27	185	256	Vertical
7908.1636	-48.01	-47.42	-25.00	22.42	132	318	Vertical
10544.2515	-53.81	-46.78	-25.00	21.78	189	129	Vertical
17927.4976	-57.57	-41.50	-25.00	16.50	254	192	Vertical

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 Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	40140	100RB#0	VL	NT	-2.00	-0.000786	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	VN	NT	-1.50	-0.000589	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	VH	NT	-1.70	-0.000668	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	VL	NT	-4.30	-0.001657	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	VN	NT	-4.20	-0.001618	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	VH	NT	-3.10	-0.001195	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	VL	NT	2.30	0.000870	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	VN	NT	-0.30	-0.000113	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	VH	NT	-0.60	-0.000227	±2.5	PASS
Band41	20MHz	64QAM	40140	100RB#0	VL	NT	-0.10	-0.000039	±2.5	PASS
Band41	20MHz	64QAM	40140	100RB#0	VN	NT	-2.70	-0.001061	±2.5	PASS
Band41	20MHz	64QAM	40140	100RB#0	VH	NT	-4.30	-0.001690	±2.5	PASS
Band41	20MHz	64QAM	40640	100RB#0	VL	NT	-2.70	-0.001040	±2.5	PASS
Band41	20MHz	64QAM	40640	100RB#0	VN	NT	-8.10	-0.003121	±2.5	PASS
Band41	20MHz	64QAM	40640	100RB#0	VH	NT	-8.20	-0.003160	±2.5	PASS
Band41	20MHz	64QAM	41140	100RB#0	VL	NT	-5.80	-0.002193	±2.5	PASS
Band41	20MHz	64QAM	41140	100RB#0	VN	NT	2.00	0.000756	±2.5	PASS
Band41	20MHz	64QAM	41140	100RB#0	VH	NT	-1.50	-0.000567	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	VL	NT	0.20	0.000079	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	VN	NT	-1.60	-0.000629	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	VH	NT	-1.30	-0.000511	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	VL	NT	-6.10	-0.002351	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	VN	NT	-6.20	-0.002389	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	VH	NT	-5.30	-0.002042	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	VL	NT	-1.50	-0.000567	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	VN	NT	1.10	0.000416	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	VH	NT	1.60	0.000605	±2.5	PASS



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



## 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	40140	100RB#0	NV	-30	-0.60	-0.000236	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	-20	-0.90	-0.000354	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	0	-3.40	-0.001336	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	10	1.70	0.000668	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	20	-0.70	-0.000275	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	30	-1.70	-0.000668	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	40	-2.00	-0.000786	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	50	-3.70	-0.001454	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	-30	-5.30	-0.002042	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	-20	-6.60	-0.002543	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	0	-7.20	-0.002775	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	10	-3.80	-0.001464	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	20	-3.60	-0.001387	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	30	-4.70	-0.001811	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	40	-2.30	-0.000886	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	50	-5.90	-0.002274	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	-30	1.60	0.000605	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	-20	1.10	0.000416	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	0	0.60	0.000227	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	10	-0.80	-0.000302	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	20	0.60	0.000227	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	30	2.20	0.000832	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	40	-1.50	-0.000567	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	50	-0.70	-0.000265	±2.5	PASS
Band41	20MHz	64QAM	40140	100RB#0	NV	-30	-2.80	-0.001100	±2.5	PASS
Band41	20MHz	64QAM	40140	100RB#0	NV	-20	-3.80	-0.001493	±2.5	PASS
Band41	20MHz	64QAM	40140	100RB#0	NV	0	-3.10	-0.001218	±2.5	PASS
Band41	20MHz	64QAM	40140	100RB#0	NV	10	-0.90	-0.000354	±2.5	PASS
Band41	20MHz	64QAM	40140	100RB#0	NV	20	-3.40	-0.001336	±2.5	PASS
Band41	20MHz	64QAM	40140	100RB#0	NV	30	-0.90	-0.000354	±2.5	PASS
Band41	20MHz	64QAM	40140	100RB#0	NV	40	0.20	0.000079	±2.5	PASS
Band41	20MHz	64QAM	40140	100RB#0	NV	50	-0.90	-0.000354	±2.5	PASS
Band41	20MHz	64QAM	40640	100RB#0	NV	-30	-7.50	-0.002890	±2.5	PASS
Band41	20MHz	64QAM	40640	100RB#0	NV	-20	-6.00	-0.002312	±2.5	PASS
Band41	20MHz	64QAM	40640	100RB#0	NV	0	-5.50	-0.002119	±2.5	PASS
Band41	20MHz	64QAM	40640	100RB#0	NV	10	-3.60	-0.001387	±2.5	PASS
Band41	20MHz	64QAM	40640	100RB#0	NV	20	-7.10	-0.002736	±2.5	PASS
Band41	20MHz	64QAM	40640	100RB#0	NV	30	-7.40	-0.002852	±2.5	PASS
Band41	20MHz	64QAM	40640	100RB#0	NV	40	-3.20	-0.001233	±2.5	PASS
Band41	20MHz	64QAM	40640	100RB#0	NV	50	-4.80	-0.001850	±2.5	PASS
Band41	20MHz	64QAM	41140	100RB#0	NV	-30	0.10	0.000038	±2.5	PASS
Band41	20MHz	64QAM	41140	100RB#0	NV	-20	0.70	0.000265	±2.5	PASS
Band41	20MHz	64QAM	41140	100RB#0	NV	0	-0.90	-0.000340	±2.5	PASS



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band41	20MHz	64QAM	41140	100RB#0	NV	10	0.70	0.000265	±2.5	PASS
Band41	20MHz	64QAM	41140	100RB#0	NV	20	-0.20	-0.000076	±2.5	PASS
Band41	20MHz	64QAM	41140	100RB#0	NV	30	0.50	0.000189	±2.5	PASS
Band41	20MHz	64QAM	41140	100RB#0	NV	40	-2.20	-0.000832	±2.5	PASS
Band41	20MHz	64QAM	41140	100RB#0	NV	50	-1.30	-0.000491	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	-30	0.20	0.000079	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	-20	1.50	0.000589	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	0	-2.70	-0.001061	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	10	-3.60	-0.001415	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	20	-1.40	-0.000550	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	30	-1.20	-0.000472	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	40	-0.10	-0.000039	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	50	0.30	0.000118	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	-30	-4.00	-0.001541	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	-20	-4.80	-0.001850	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	0	-3.30	-0.001272	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	10	-6.20	-0.002389	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	20	-4.70	-0.001811	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	30	-5.20	-0.002004	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	40	-5.00	-0.001927	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	50	-4.20	-0.001618	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	-30	-2.50	-0.000945	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	0	1.20	0.000454	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	10	1.60	0.000605	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	20	-0.30	-0.000113	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	30	-1.00	-0.000378	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	40	-0.40	-0.000151	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	50	-0.40	-0.000151	±2.5	PASS



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