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Appendix B.3

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	19.52	21.22	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	19.62	21.32	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	19.42	21.12	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	19.59	21.29	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	19.46	21.16	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	19.63	21.33	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	19.54	21.24	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	19.61	21.31	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	19.44	21.14	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	19.46	21.16	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	19.56	21.26	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	19.49	21.19	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	19.63	21.33	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	19.89	21.59	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	19.86	21.56	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	19.85	21.55	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	19.89	21.59	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	19.85	21.55	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	19.93	21.63	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	19.88	21.58	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	19.74	21.44	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	19.89	21.59	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	19.75	21.45	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	19.56	21.26	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	19.68	21.38	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	19.94	21.64	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	19.83	21.53	30	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	19.66	21.36	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	19.76	21.46	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	19.82	21.52	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	19.76	21.46	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.64	21.34	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	19.83	21.53	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	19.62	21.32	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	19.54	21.24	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	19.53	21.23	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	19.55	21.25	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	19.68	21.38	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	19.60	21.3	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	19.70	21.4	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	19.61	21.31	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	19.74	21.44	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	19.58	21.28	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	19.61	21.31	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	19.47	21.17	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	19.60	21.3	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	19.51	21.21	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	19.61	21.31	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	19.87	21.57	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	20.09	21.79	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	19.94	21.64	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	19.71	21.41	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	19.90	21.6	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	20.00	21.7	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	20.04	21.74	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	19.67	21.37	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	19.82	21.52	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	19.97	21.67	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	19.81	21.51	30	PASS



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Band4	3MHz	64QAM	19965	1RB#0	19.70	21.4	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	19.90	21.6	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	19.87	21.57	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	19.75	21.45	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	19.92	21.62	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	19.96	21.66	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	19.97	21.67	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.64	21.34	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	19.72	21.42	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	19.86	21.56	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	19.82	21.52	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	19.72	21.42	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	19.69	21.39	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	19.56	21.26	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	19.59	21.29	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	19.69	21.39	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	19.65	21.35	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	19.64	21.34	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	19.63	21.33	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	19.66	21.36	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	19.58	21.28	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	19.54	21.24	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	19.45	21.15	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	19.64	21.34	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	20.03	21.73	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	20.06	21.76	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	20.04	21.74	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	19.66	21.36	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	19.98	21.68	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	19.91	21.61	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	19.91	21.61	30	PASS



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Band4	5MHz	16QAM	20175	25RB#0	19.61	21.31	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	19.90	21.6	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	20.00	21.7	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	19.90	21.6	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	19.62	21.32	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	19.69	21.39	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	19.88	21.58	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	19.91	21.61	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	19.79	21.49	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.02	21.72	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	19.91	21.61	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	19.79	21.49	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	19.60	21.3	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	19.84	21.54	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	19.62	21.32	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	19.71	21.41	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.63	21.33	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	19.58	21.28	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	19.52	21.22	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	19.61	21.31	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	19.73	21.43	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	19.70	21.4	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	19.48	21.18	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	19.50	21.2	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	19.69	21.39	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	19.46	21.16	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	19.35	21.05	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	19.55	21.25	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	19.61	21.31	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	20.04	21.74	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	19.79	21.49	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	20.04	21.74	30	PASS



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Band4	10MHz	16QAM	20175	1RB#0	19.93	21.63	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	19.90	21.6	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	19.93	21.63	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	19.71	21.41	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	19.78	21.48	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	19.73	21.43	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	19.73	21.43	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	19.64	21.34	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	19.76	21.46	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	19.88	21.58	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	19.86	21.56	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	19.78	21.48	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	19.73	21.43	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	19.62	21.32	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	19.75	21.45	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	19.73	21.43	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	19.68	21.38	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	19.86	21.56	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	19.82	21.52	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.57	21.27	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	19.40	21.1	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	19.49	21.19	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	19.42	21.12	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	19.60	21.3	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	19.46	21.16	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	19.42	21.12	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	19.45	21.15	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	19.56	21.26	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	19.29	20.99	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	19.33	21.03	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	19.37	21.07	30	PASS



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Band4	15MHz	16QAM	20025	1RB#0	19.81	21.51	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	19.85	21.55	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	19.87	21.57	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	19.64	21.34	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	19.68	21.38	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	19.65	21.35	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	19.80	21.5	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	19.48	21.18	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	19.54	21.24	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	19.57	21.27	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	19.72	21.42	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	19.49	21.19	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	19.59	21.29	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	19.75	21.45	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	19.72	21.42	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	19.59	21.29	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	19.55	21.25	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	19.74	21.44	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	19.56	21.26	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	19.60	21.3	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	19.55	21.25	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	19.56	21.26	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	19.57	21.27	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.45	21.15	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	19.43	21.13	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	19.49	21.19	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	19.44	21.14	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	19.55	21.25	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	19.48	21.18	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	19.43	21.13	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	19.41	21.11	30	PASS



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Band4	20MHz	QPSK	20175	100RB#0	19.58	21.28	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	19.33	21.03	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	19.33	21.03	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	19.43	21.13	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	19.41	21.11	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	19.77	21.47	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	19.84	21.54	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	19.72	21.42	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	19.58	21.28	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	19.79	21.49	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	19.86	21.56	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	19.76	21.46	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	19.52	21.22	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	19.57	21.27	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	19.73	21.43	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	19.78	21.48	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	19.52	21.22	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	19.53	21.23	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	19.70	21.4	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	19.62	21.32	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	19.55	21.25	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	19.58	21.28	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	19.93	21.63	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	19.59	21.29	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	19.52	21.22	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	19.47	21.17	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	19.53	21.23	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	19.46	21.16	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.47	21.17	30	PASS



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Peak-to-Average Ratio(CCDF)**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.42	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.50	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.46	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.12	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.20	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.10	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.58	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.74	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.68	13	PASS



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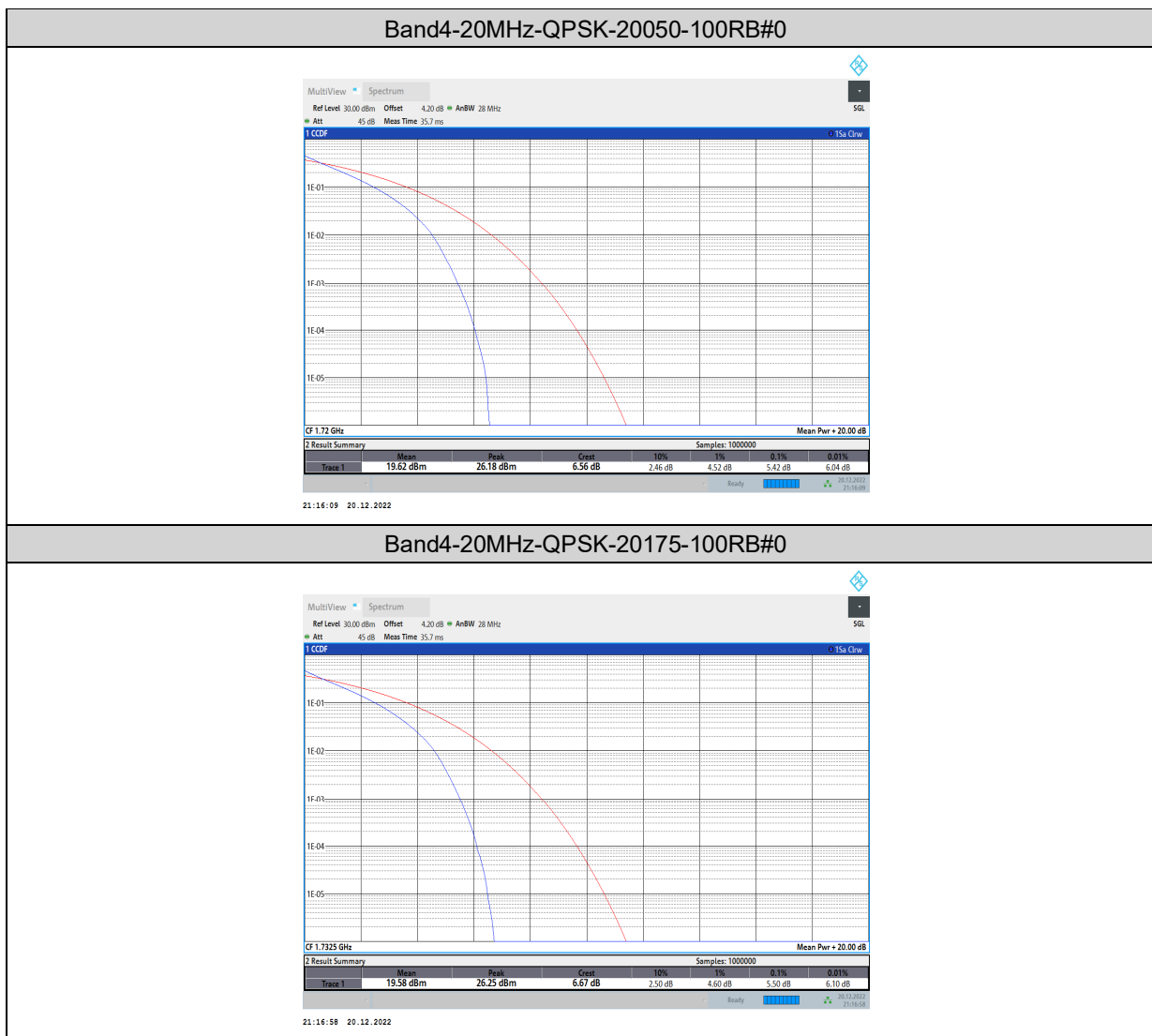
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Test Graphs



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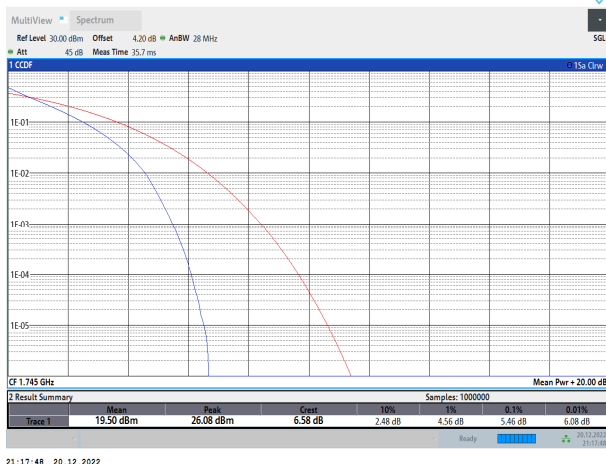
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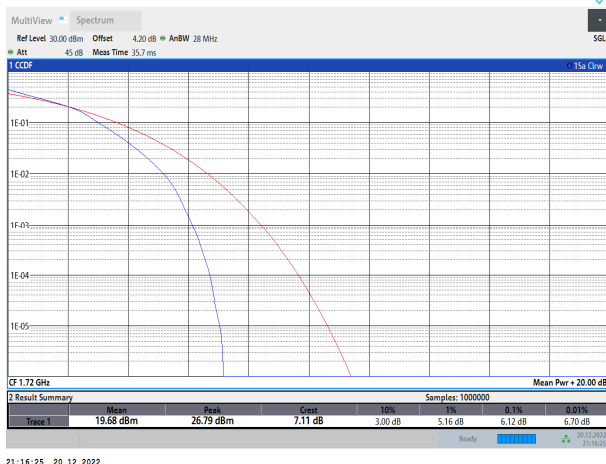
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Band4-20MHz-QPSK-20300-100RB#0



Band4-20MHz-16QAM-20050-100RB#0



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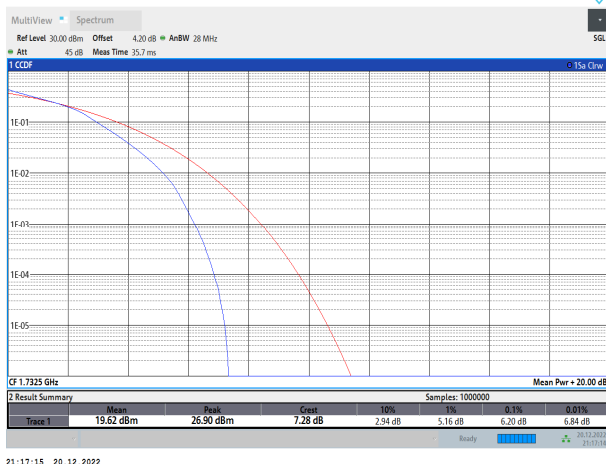
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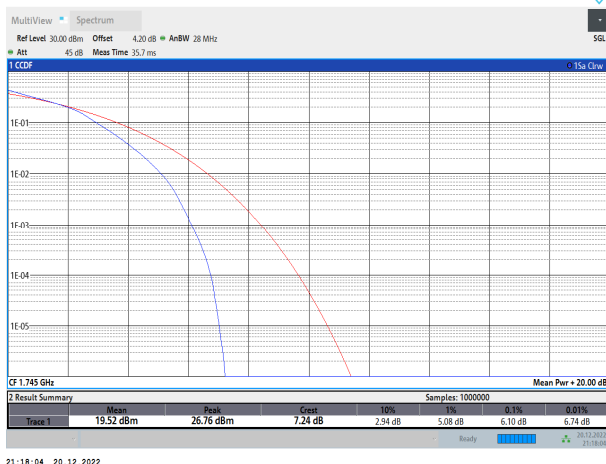
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Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-100RB#0



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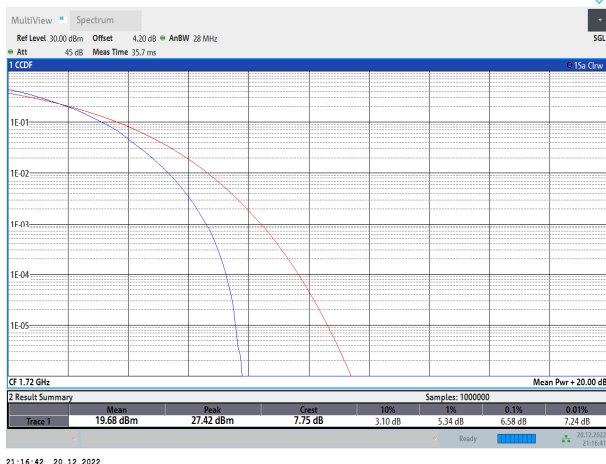
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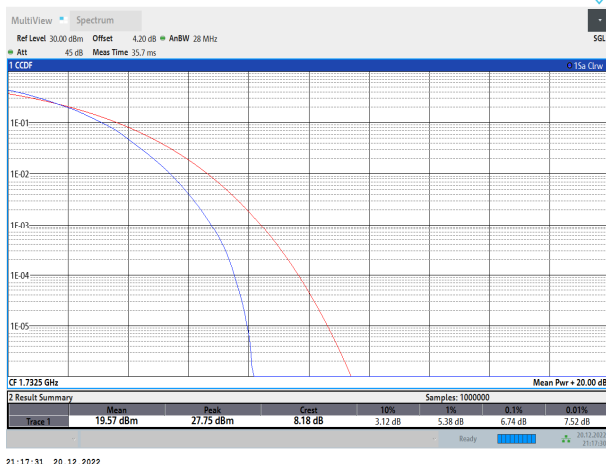
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Band4-20MHz-64QAM-20050-100RB#0



Band4-20MHz-64QAM-20175-100RB#0



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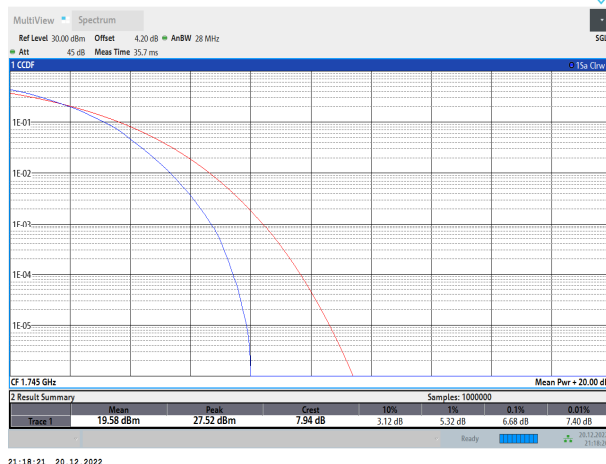
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Band4-20MHz-64QAM-20300-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	PASS	PASS



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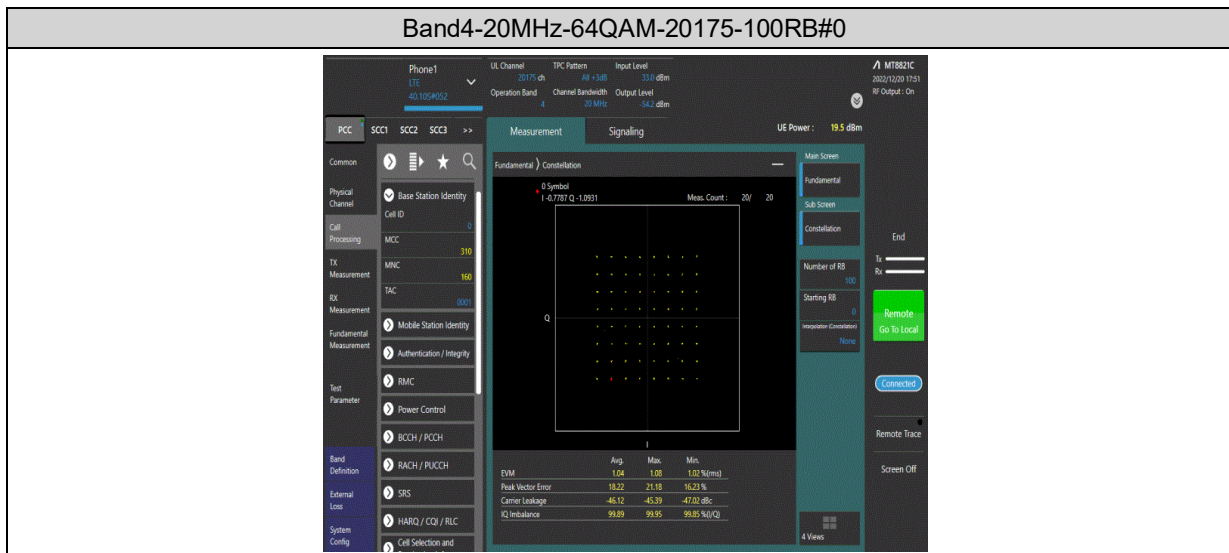


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.083	1.21	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.083	1.21	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.084	1.23	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.24	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.091	1.24	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.24	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.09	1.24	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.09	1.24	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.09	1.24	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.693	2.99	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.692	3.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.695	2.99	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.688	2.97	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.689	2.99	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.686	2.99	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.689	2.97	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.688	2.98	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.689	2.98	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.471	4.88	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.469	4.91	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.472	4.91	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.467	4.90	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.471	4.89	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.471	4.90	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.473	4.89	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.479	4.91	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.484	4.88	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.925	9.64	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.942	9.64	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.945	9.64	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.924	9.64	PASS



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Band4	10MHz	16QAM	20175	50RB#0	8.934	9.66	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.919	9.64	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.938	9.68	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.936	9.66	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.938	9.68	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.472	14.67	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.483	14.73	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.464	14.76	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.471	14.85	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.459	14.79	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.45	14.82	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.45	14.73	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.436	14.82	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.443	14.79	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.947	19.56	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.936	19.44	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.926	19.44	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.914	19.44	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.924	19.44	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.903	19.44	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.901	19.40	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.889	19.56	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.899	19.44	PASS



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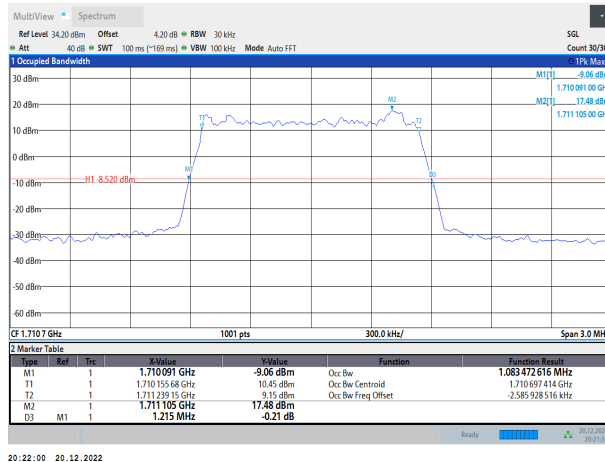
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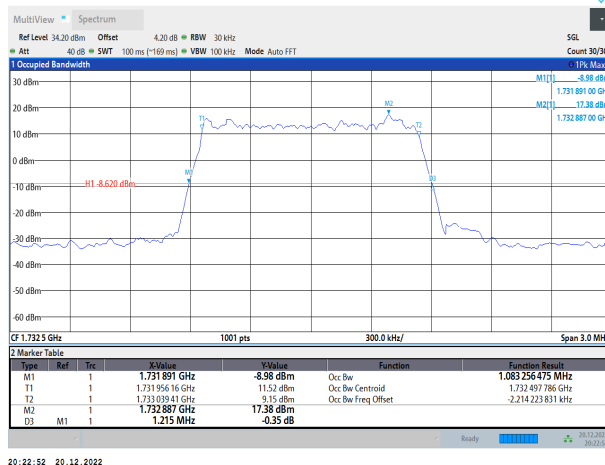
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Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20175-6RB#0



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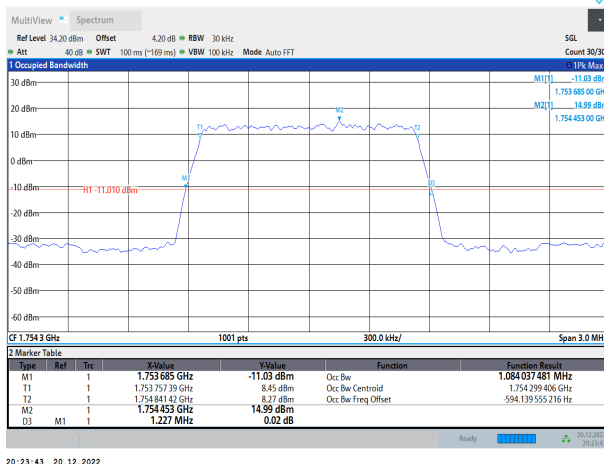
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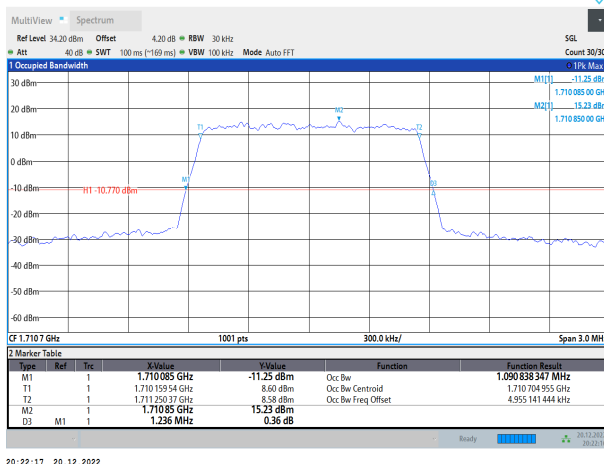
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Band4-1.4MHz-16QAM-19957-6RB#0

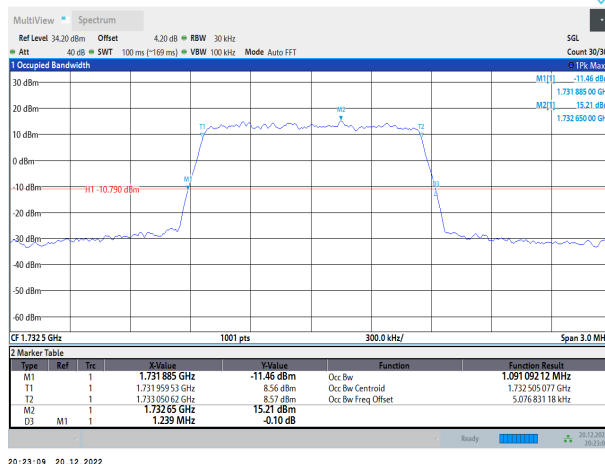


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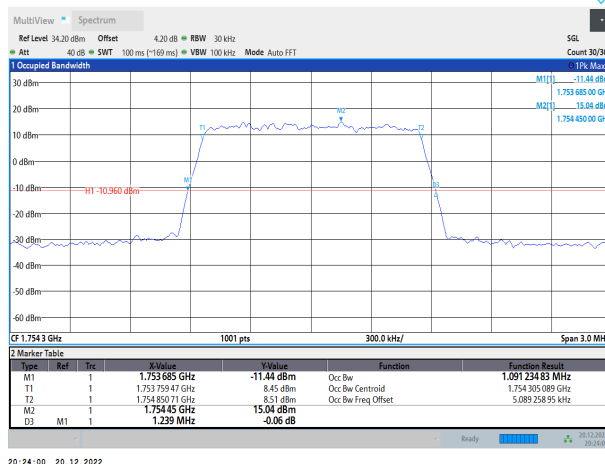
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Band4-1.4MHz-16QAM-20393-6RB#0



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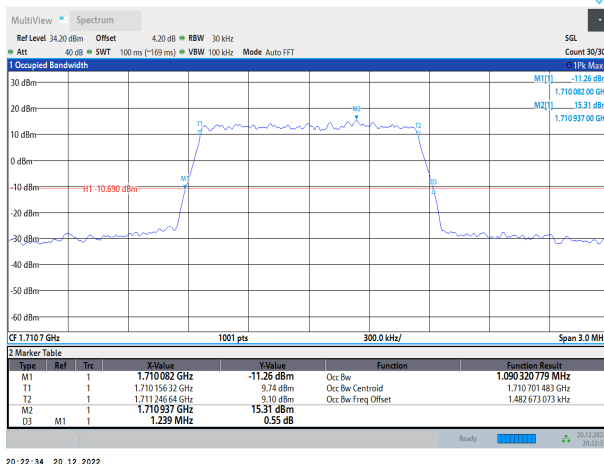
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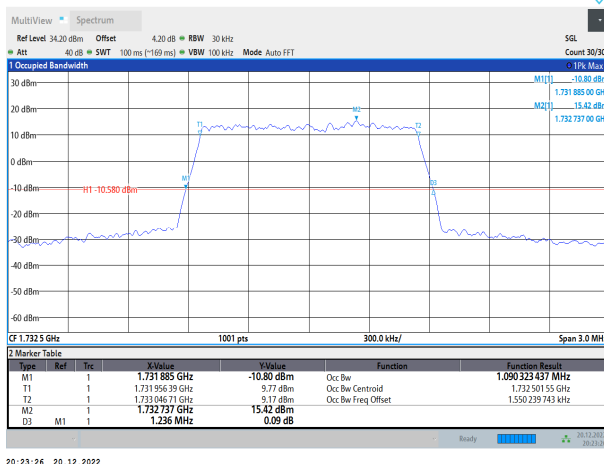
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Band4-1.4MHz-64QAM-19957-6RB#0



Band4-1.4MHz-64QAM-20175-6RB#0



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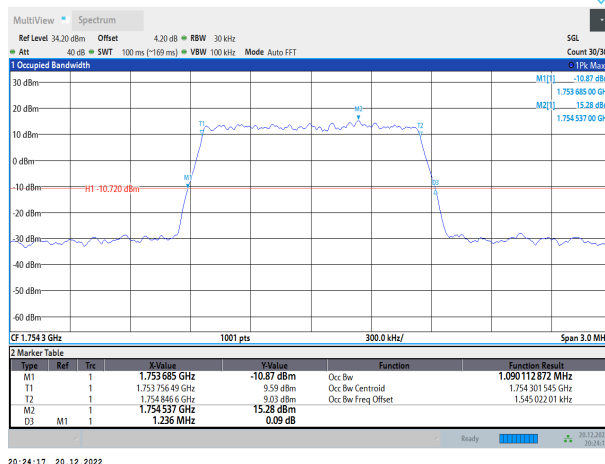
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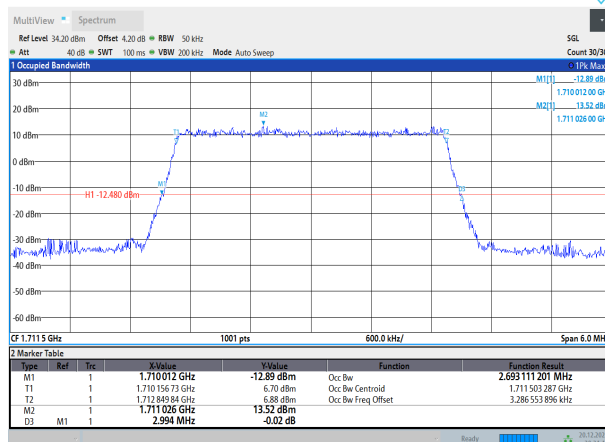
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20:24:17 20.12.2022

Band4-3MHz-QPSK-19965-15RB#0



20:24:48 20.12.2022



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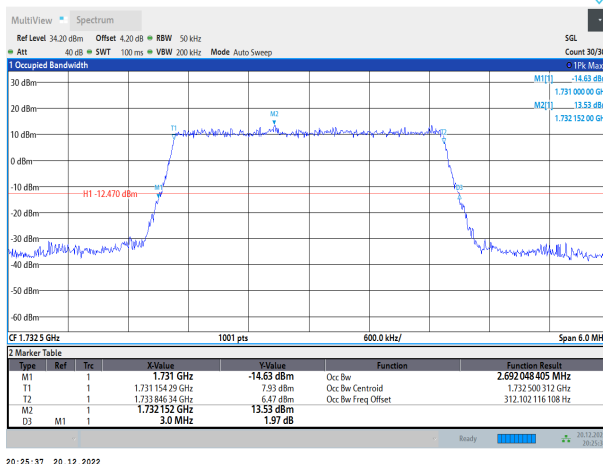
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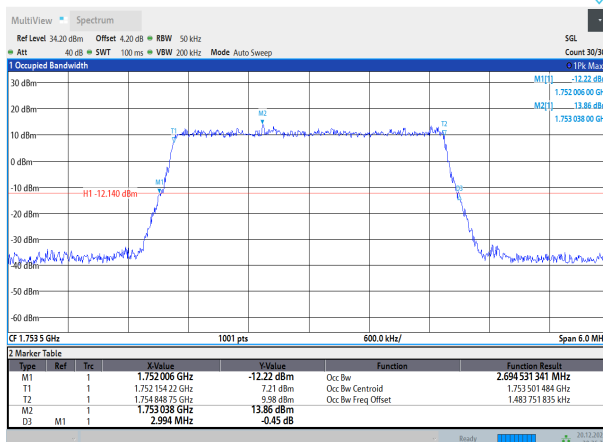
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Band4-3MHz-QPSK-20175-15RB#0



20:25:37 20.12.2022

Band4-3MHz-QPSK-20385-15RB#0



20:26:25 20.12.2022



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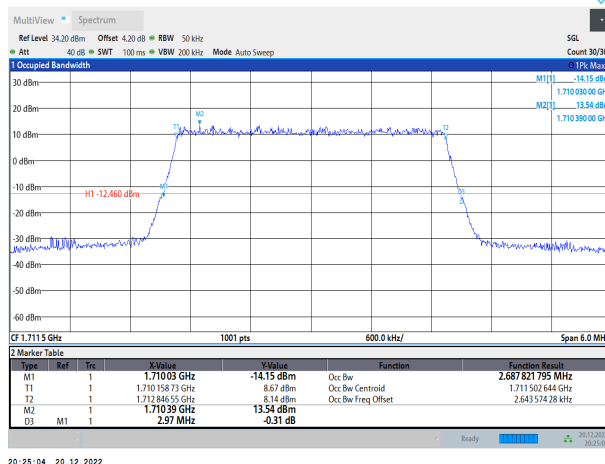
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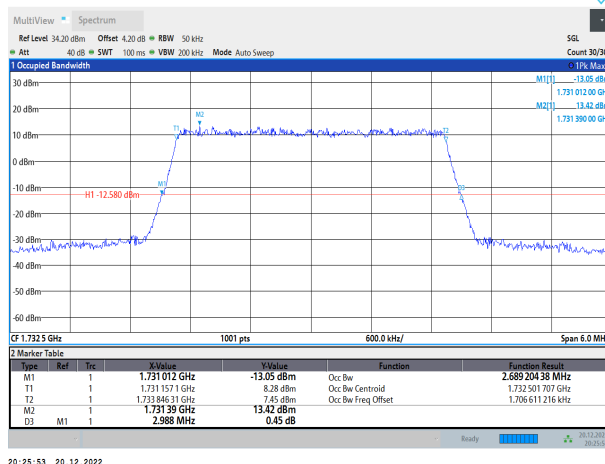
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Band4-3MHz-16QAM-19965-15RB#0



Band4-3MHz-16QAM-20175-15RB#0



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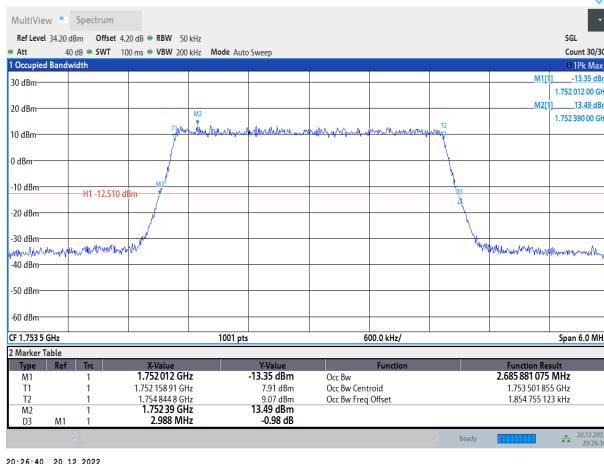
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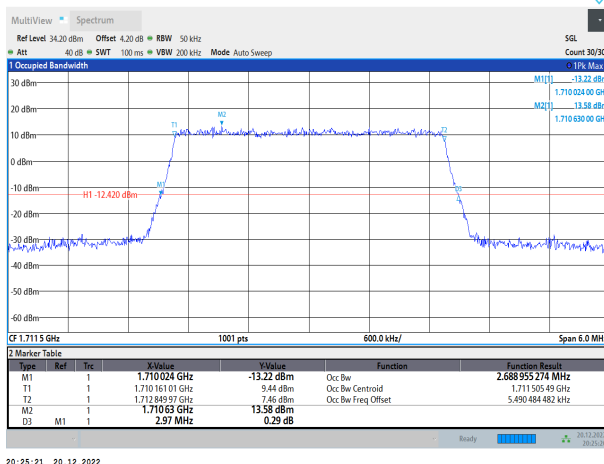
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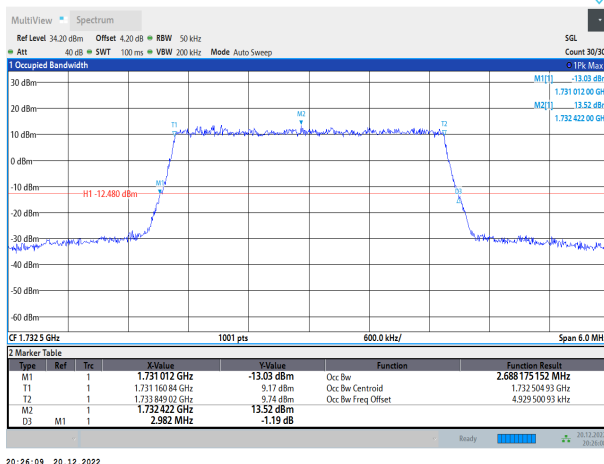
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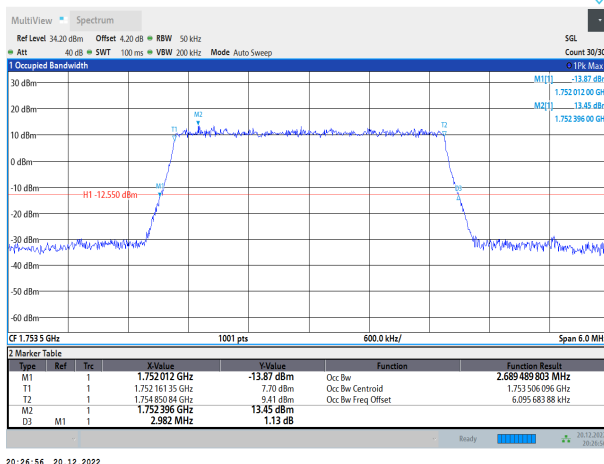
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Band4-3MHz-64QAM-20385-15RB#0

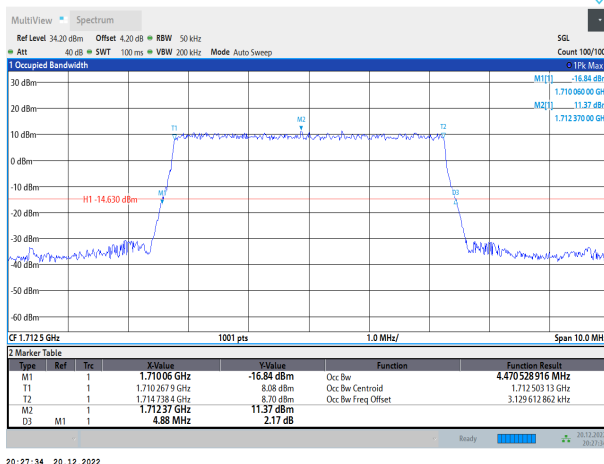


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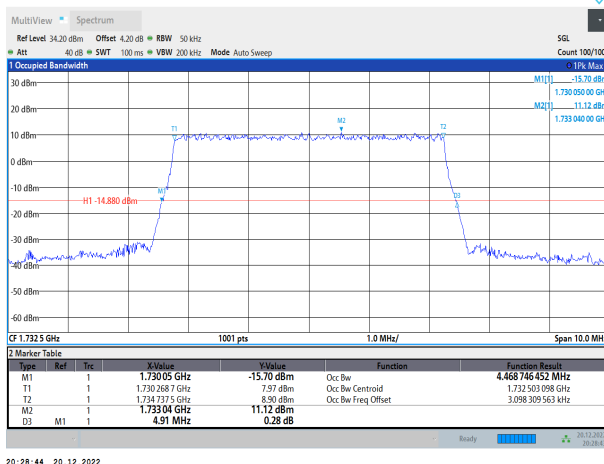
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Band4-5MHz-QPSK-20175-25RB#0



20:28:44 20.12.2022



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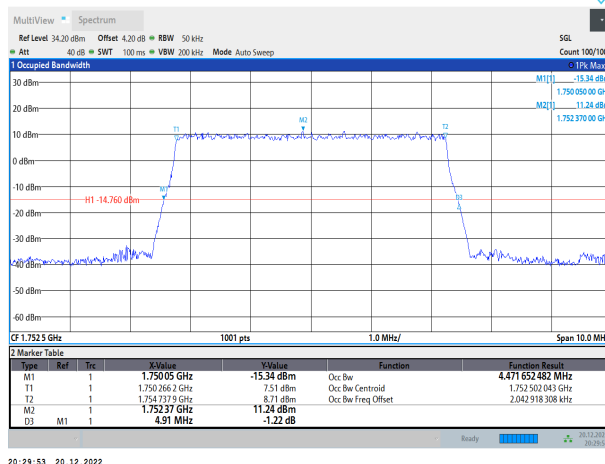
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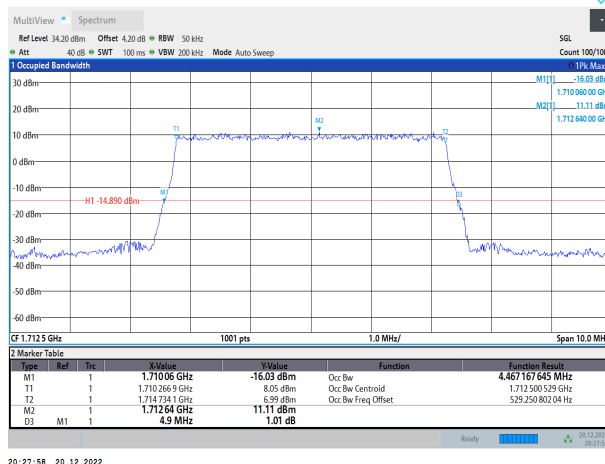
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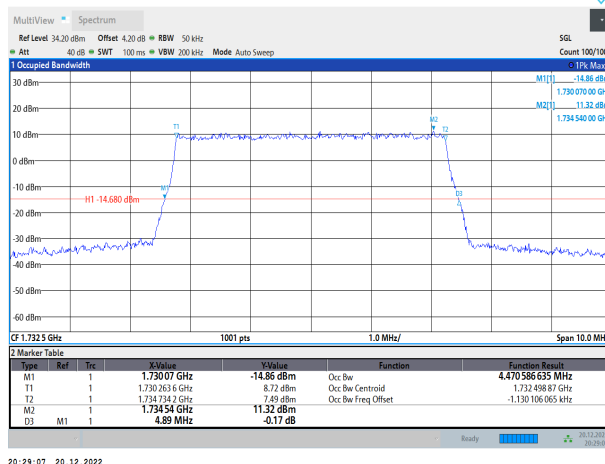
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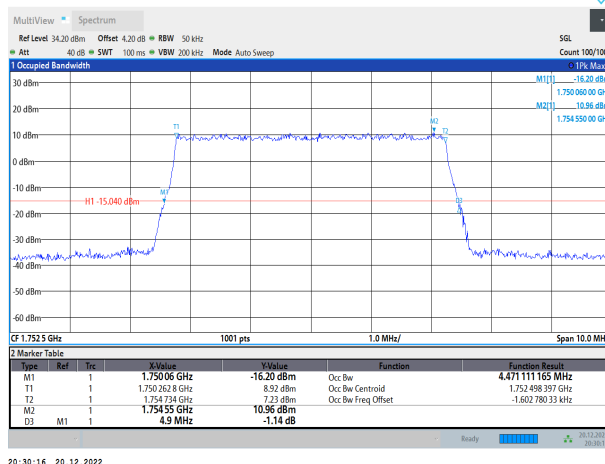
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Band4-5MHz-16QAM-20375-25RB#0

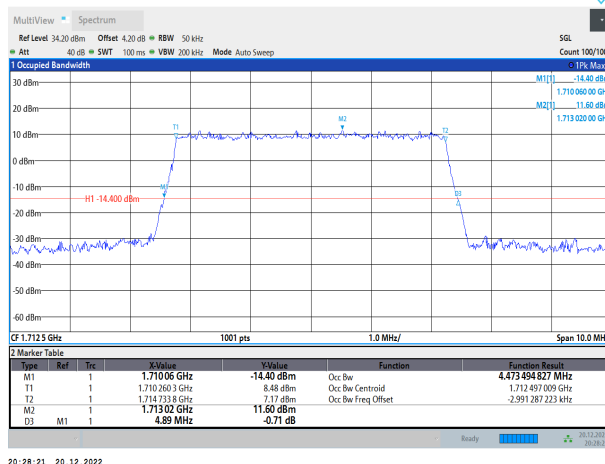


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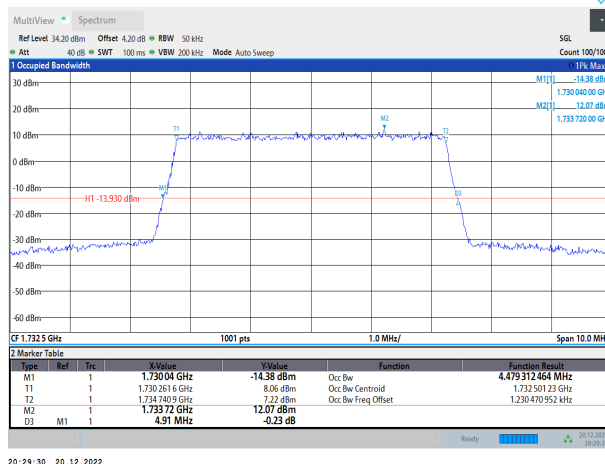
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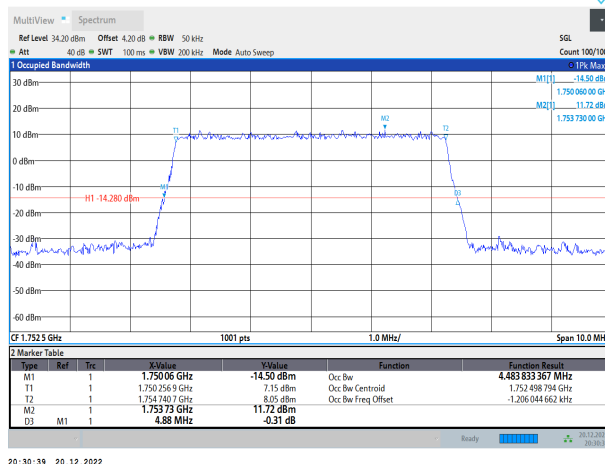
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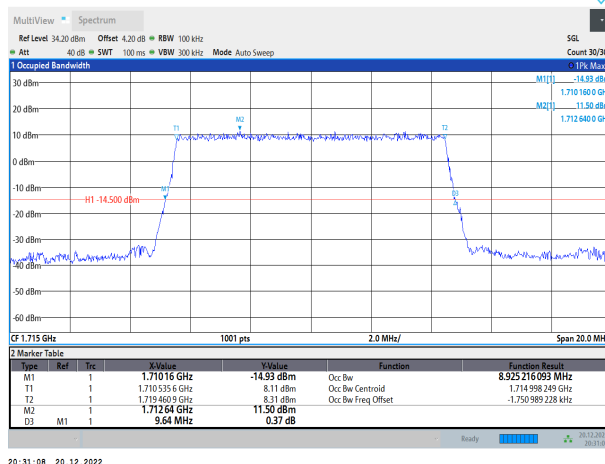
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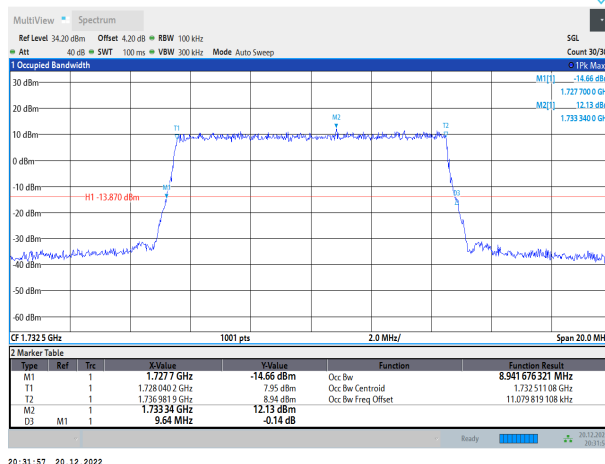
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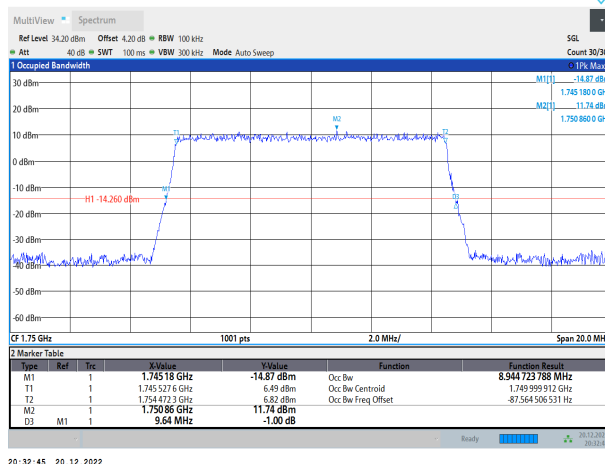
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Band4-10MHz-QPSK-20350-50RB#0



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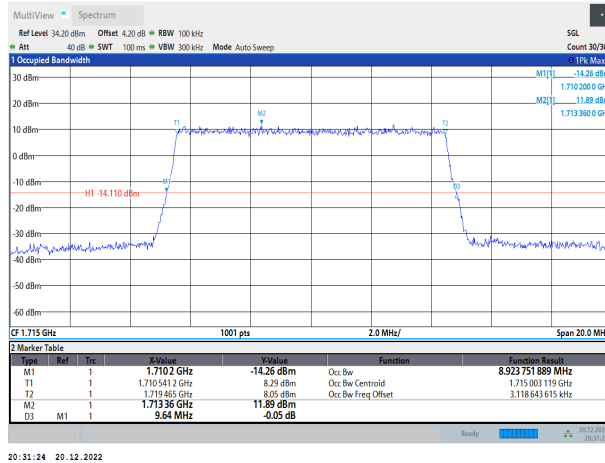
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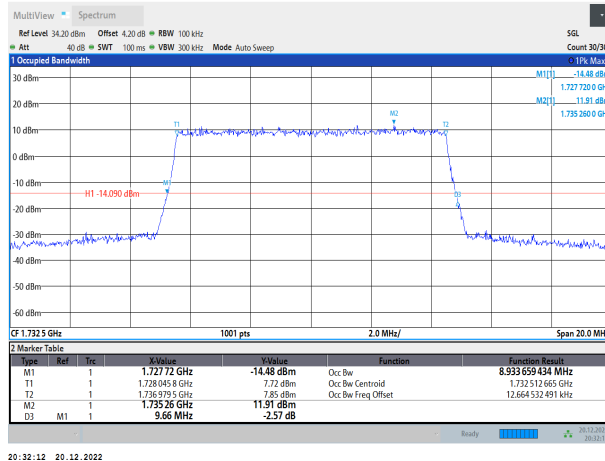
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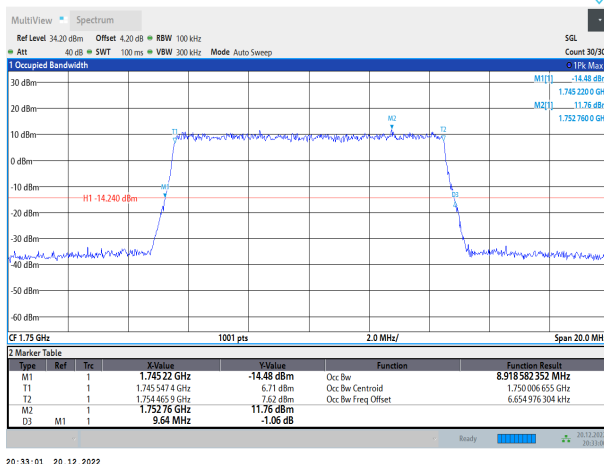
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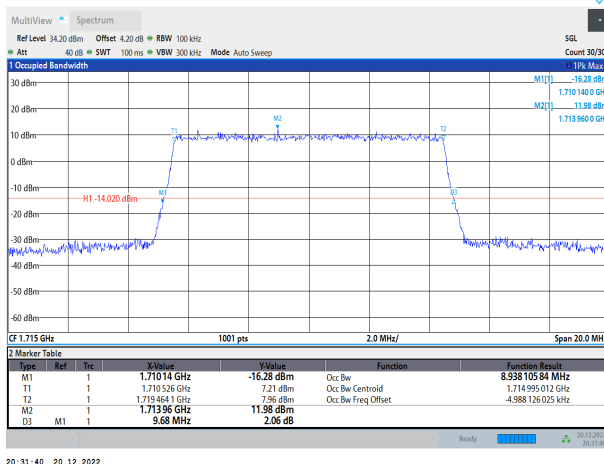
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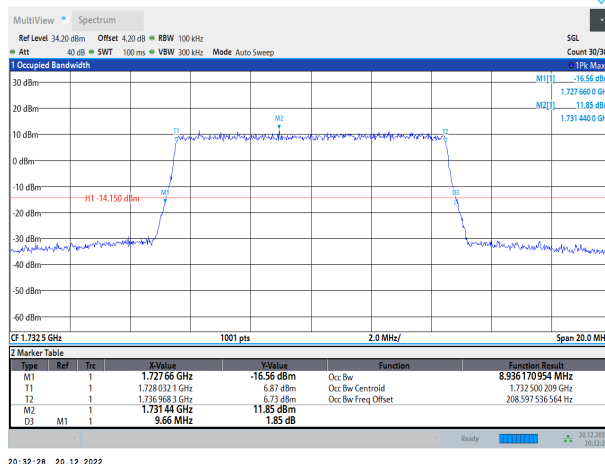
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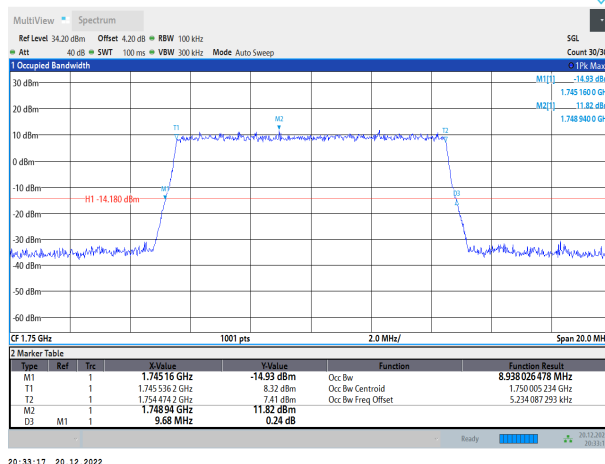
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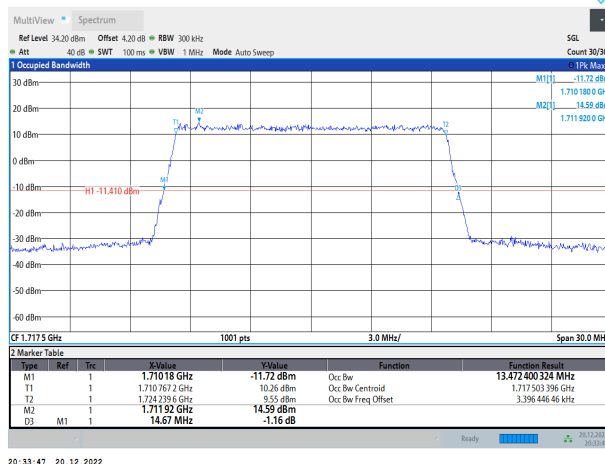
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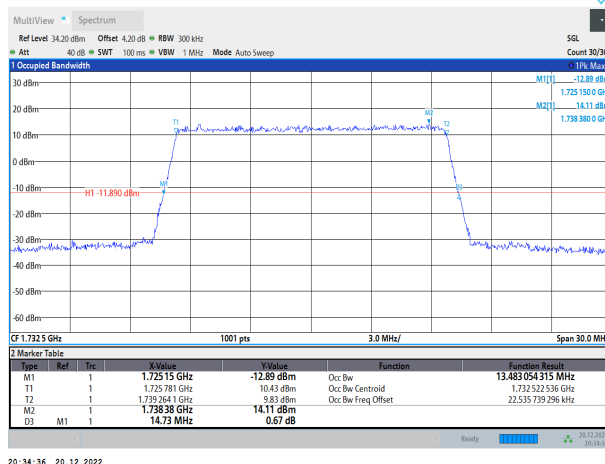
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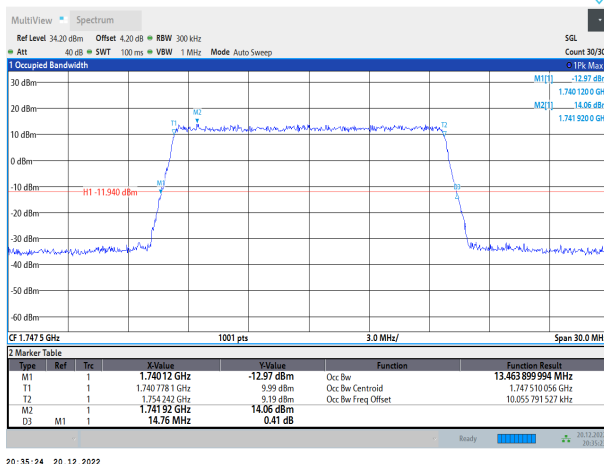
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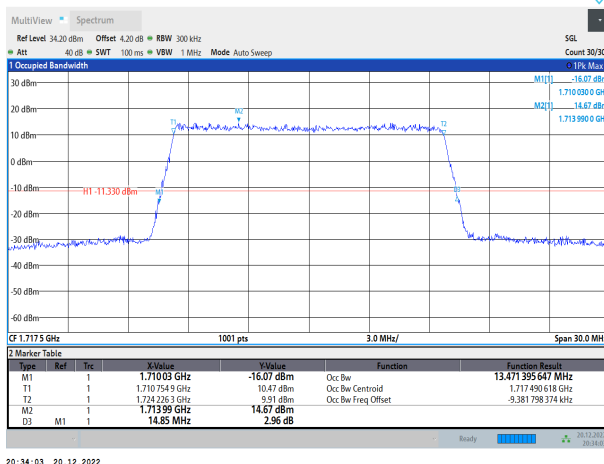
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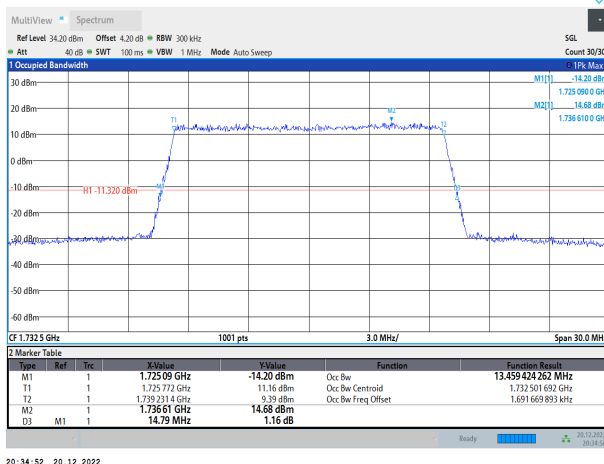


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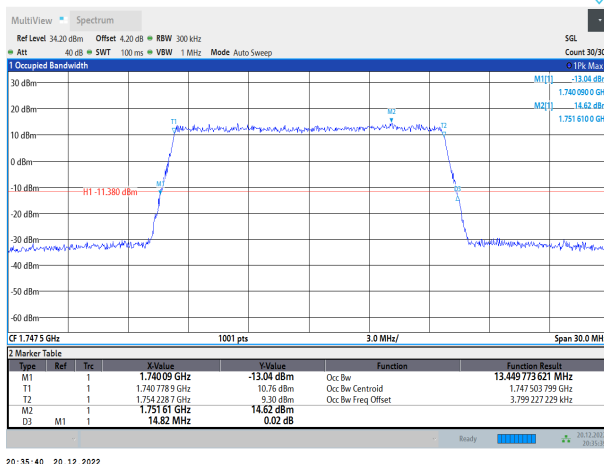
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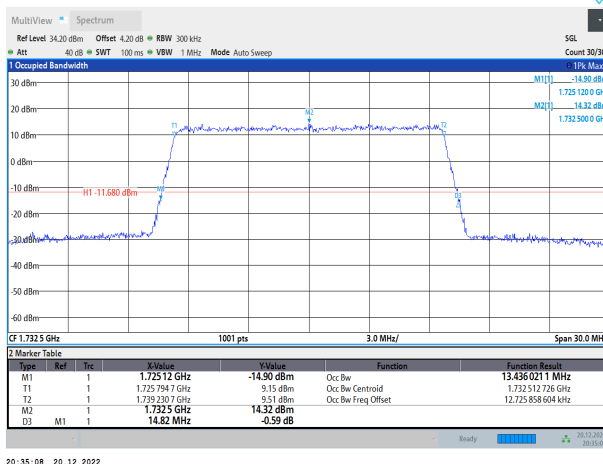
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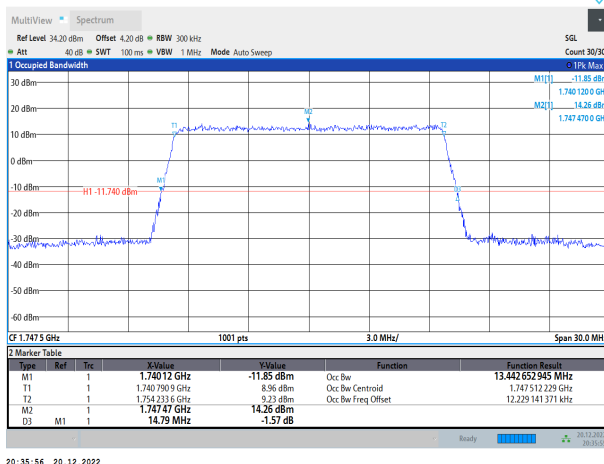
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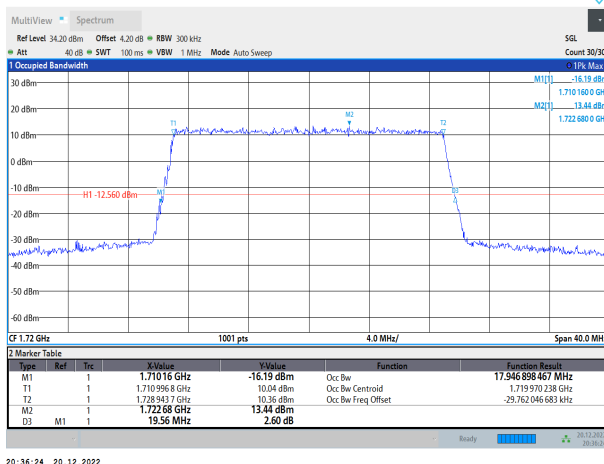
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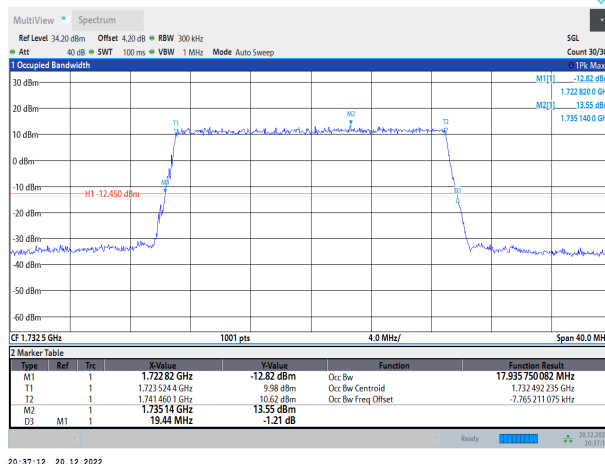
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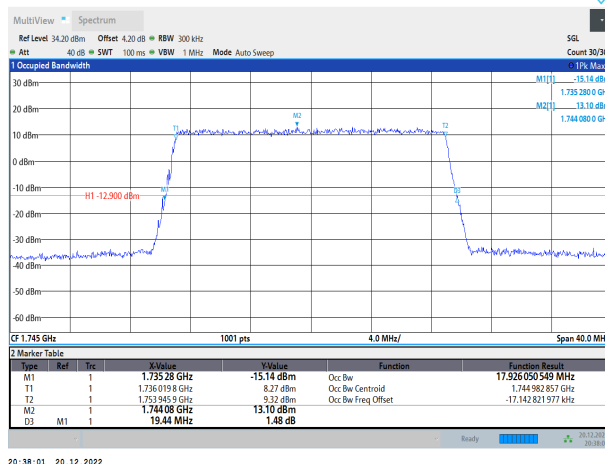
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Band4-20MHz-QPSK-20175-100RB#0



Band4-20MHz-QPSK-20300-100RB#0



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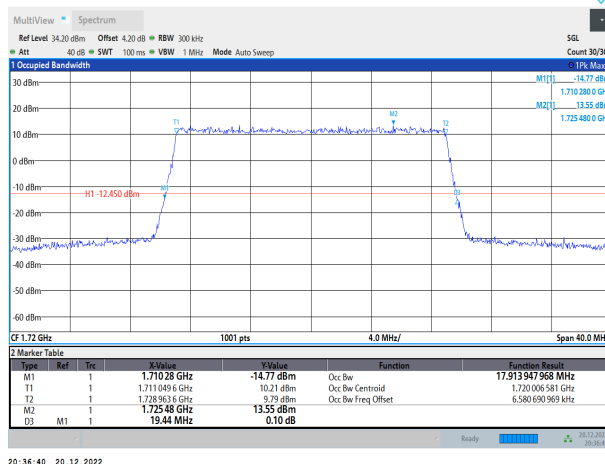
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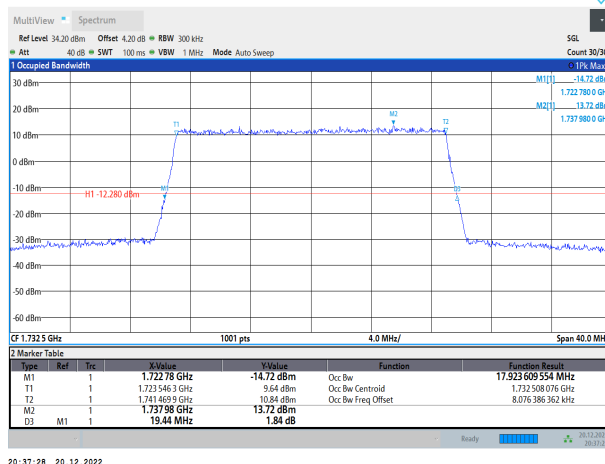
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Band4-20MHz-16QAM-20050-100RB#0



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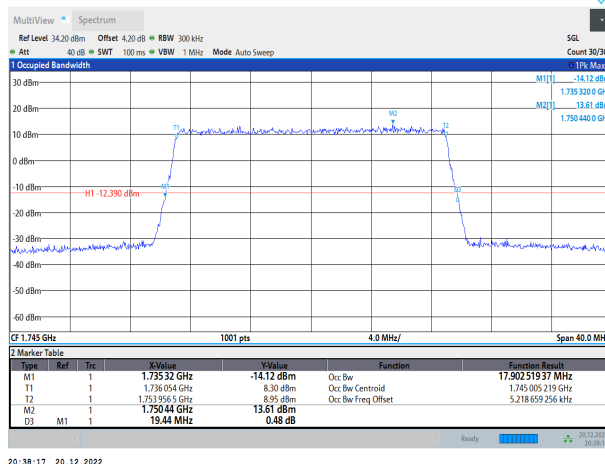
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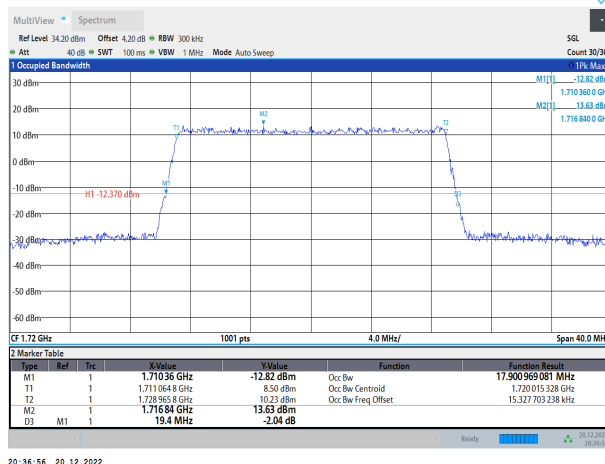
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Band4-20MHz-16QAM-20300-100RB#0



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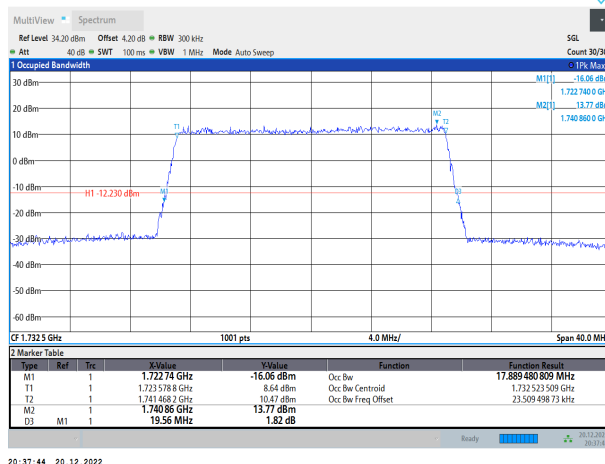
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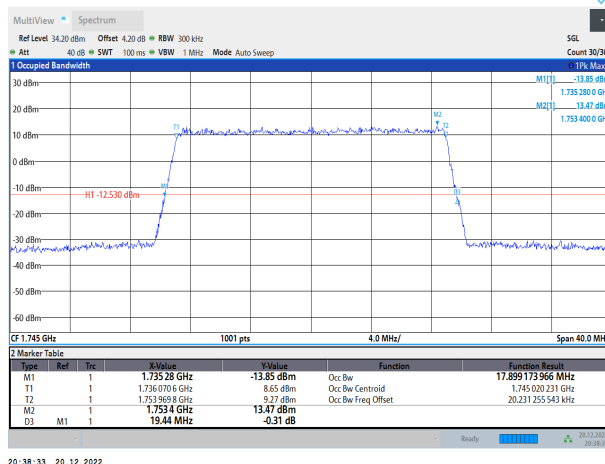
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Band4-20MHz-64QAM-20300-100RB#0



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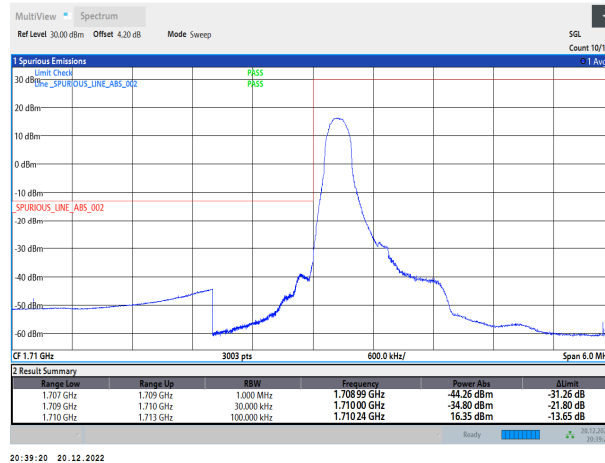
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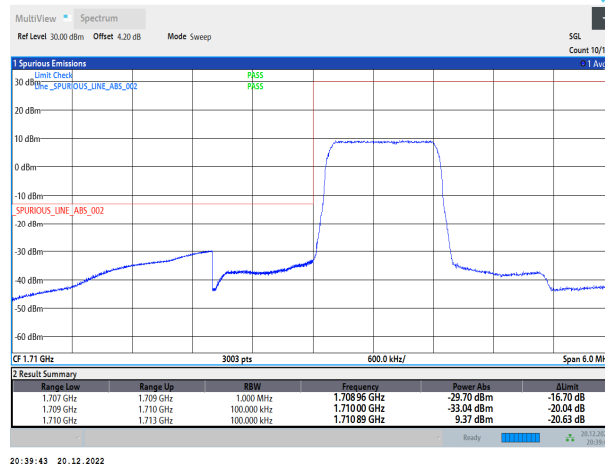
Band Edge

Test Graphs

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Band4-1.4MHz-QPSK-19957-6RB#0



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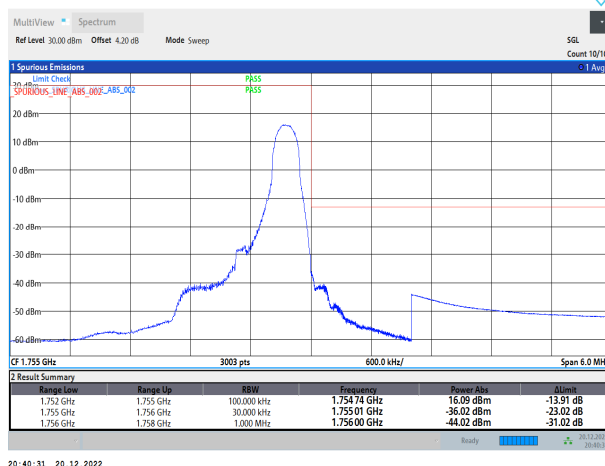
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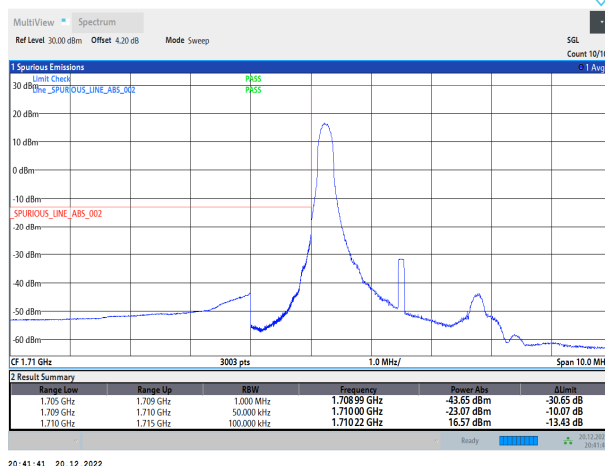
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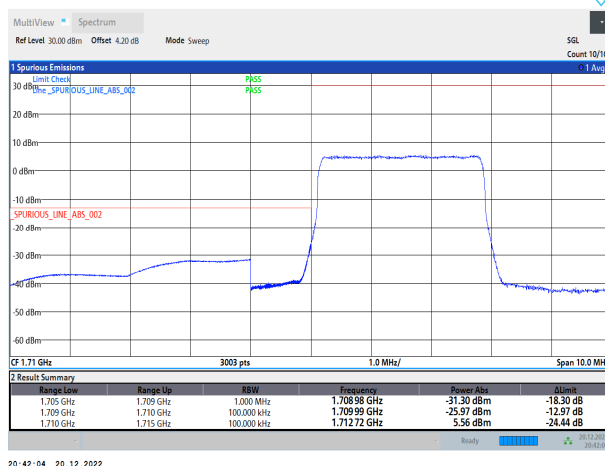
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Band4-3MHz-QPSK-19965-1RB#0



Band4-3MHz-QPSK-19965-15RB#0



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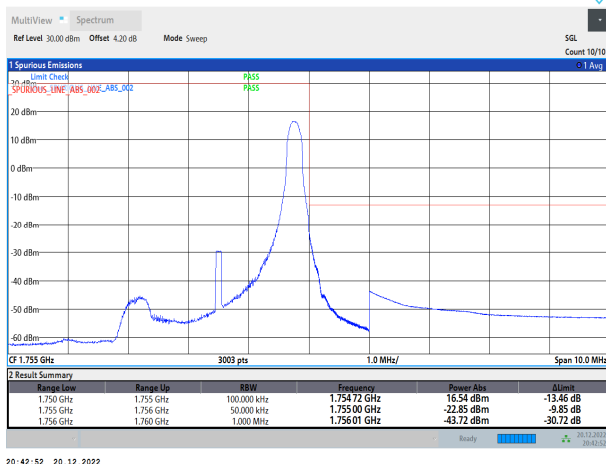
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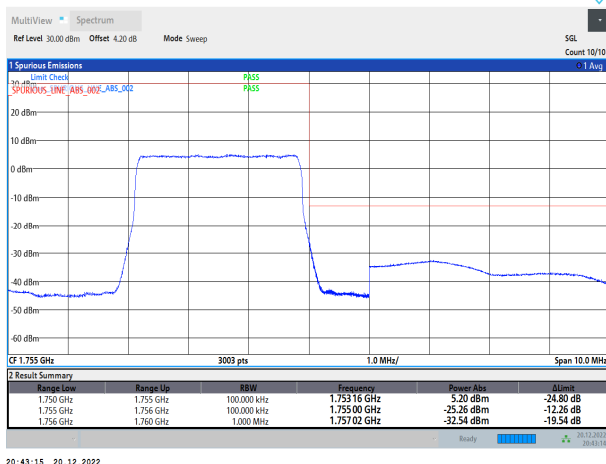
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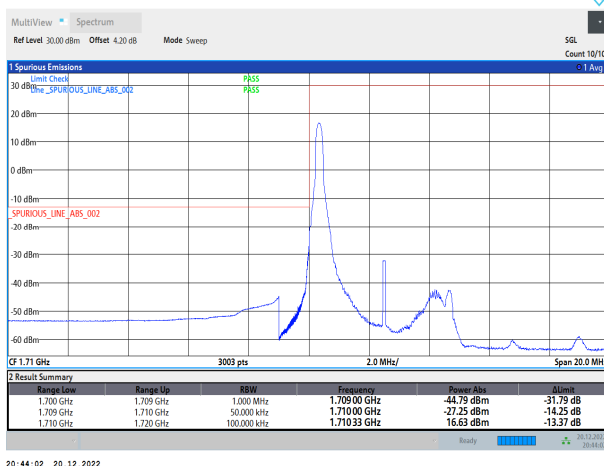
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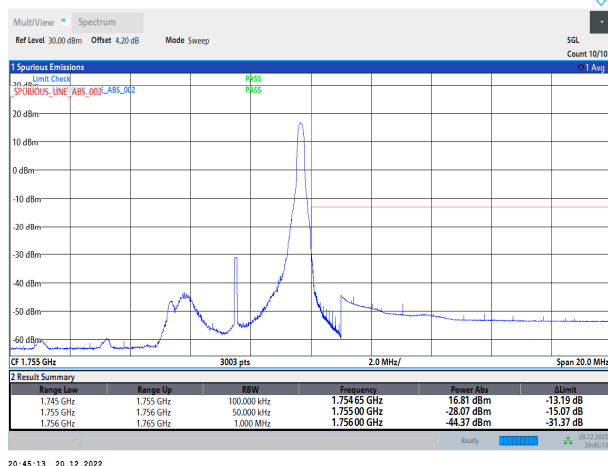
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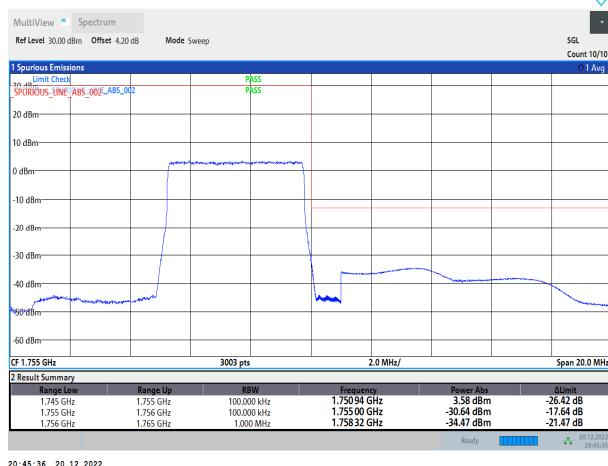
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Band4-5MHz-QPSK-20375-25RB#0



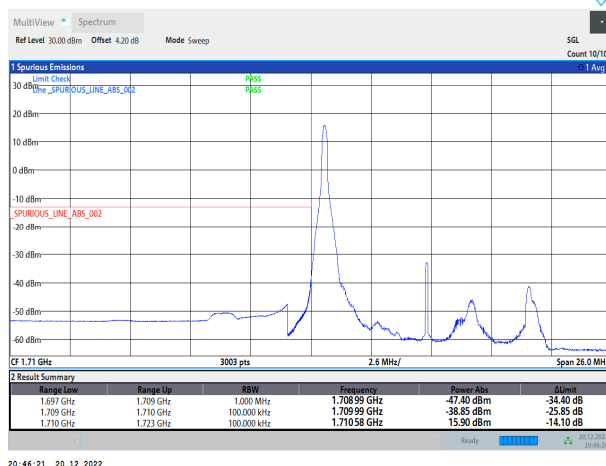
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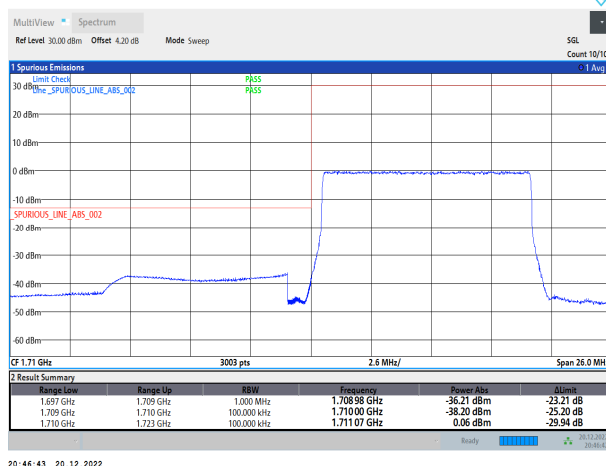
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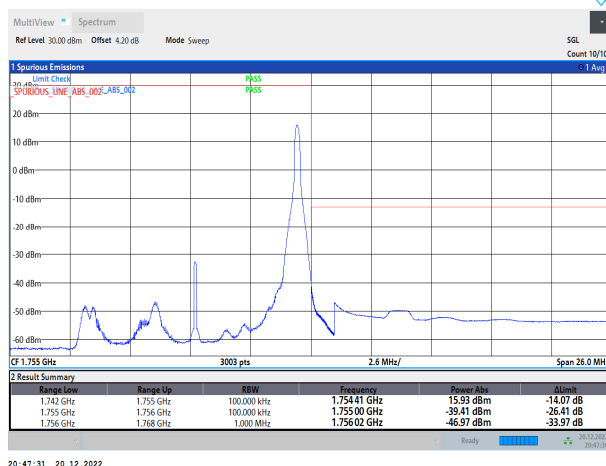
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Band4-10MHz-QPSK-20350-1RB#49



Band4-10MHz-QPSK-20350-50RB#0



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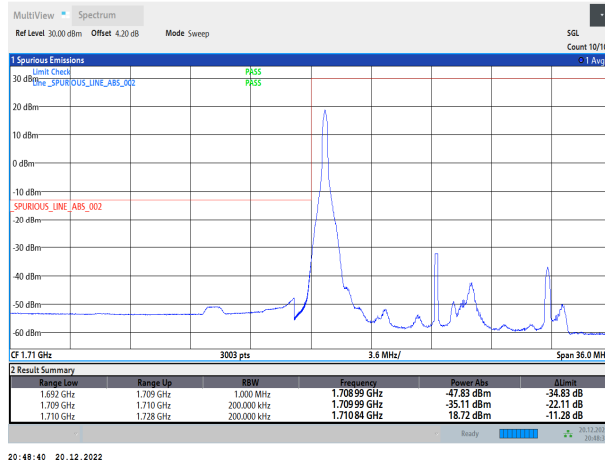
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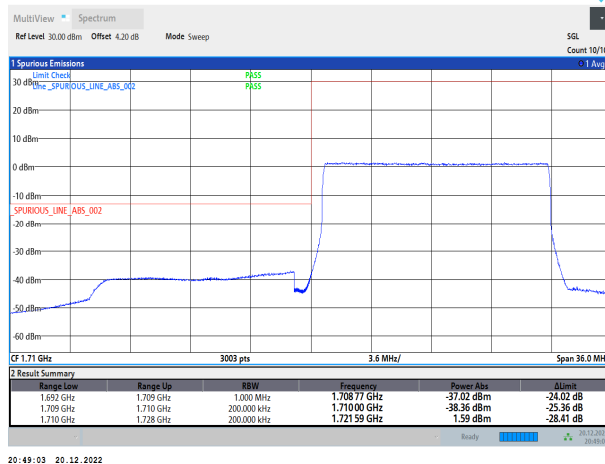
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Band4-15MHz-QPSK-20025-1RB#0



Band4-15MHz-QPSK-20025-75RB#0



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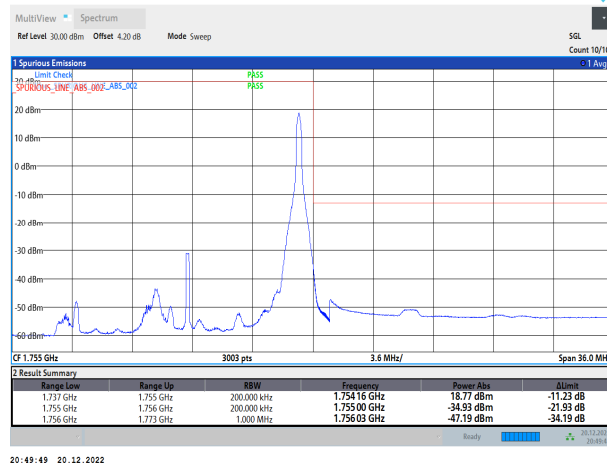
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Band4-15MHz-QPSK-20325-1RB#74



Band4-15MHz-QPSK-20325-75RB#0



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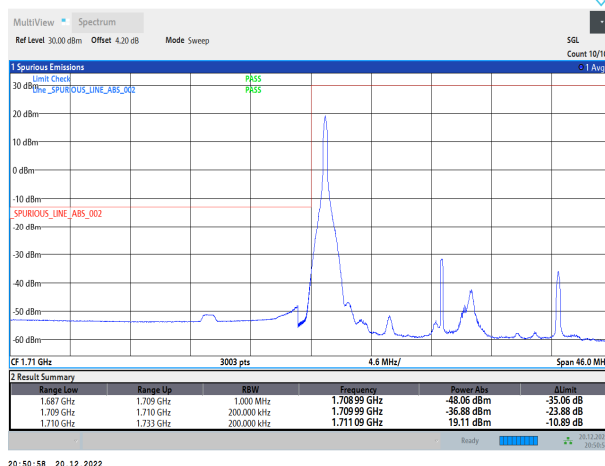
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Band4-20MHz-QPSK-20050-1RB#0



Band4-20MHz-QPSK-20050-100RB#0



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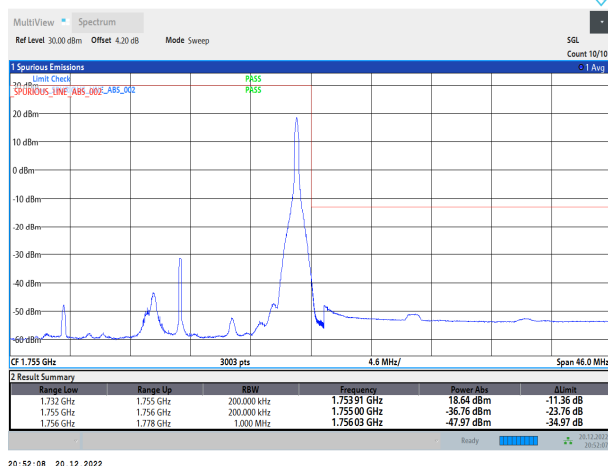
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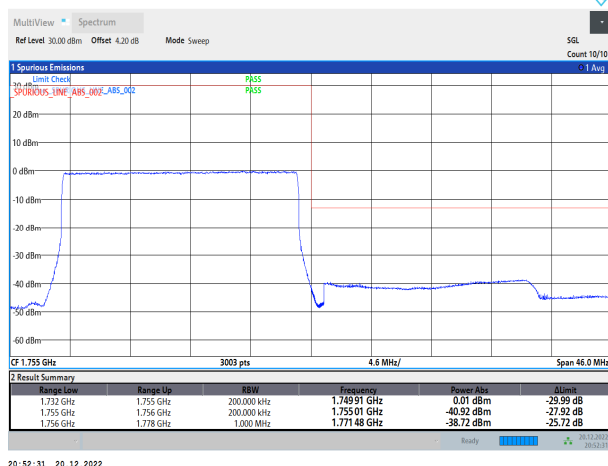
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Band4-20MHz-QPSK-20300-1RB#99



Band4-20MHz-QPSK-20300-100RB#0



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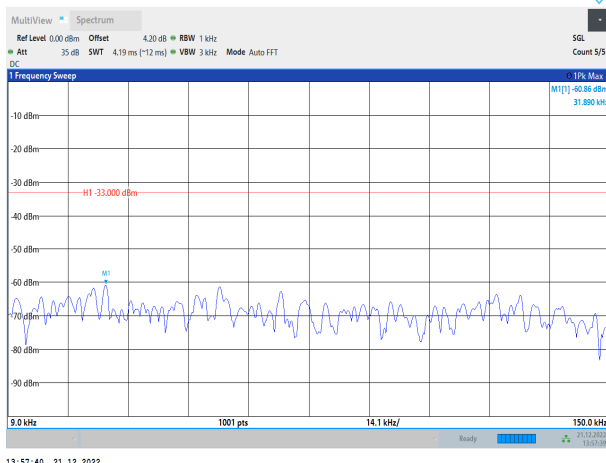
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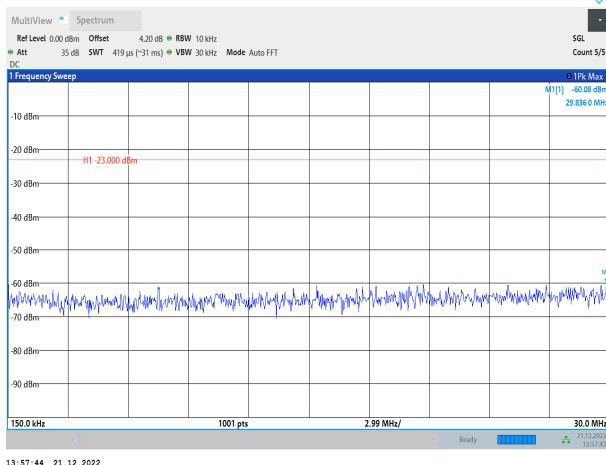
Conducted Spurious Emission

Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



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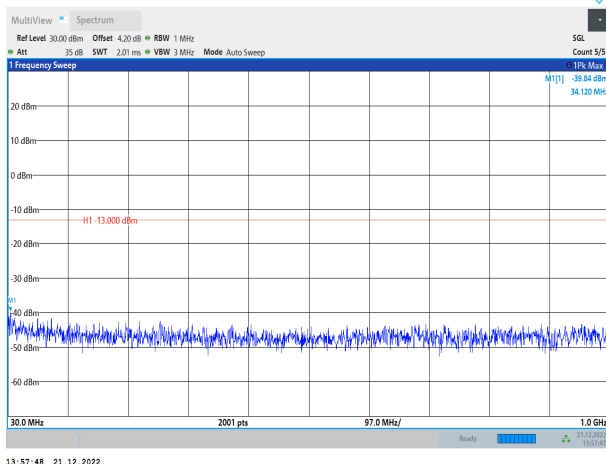
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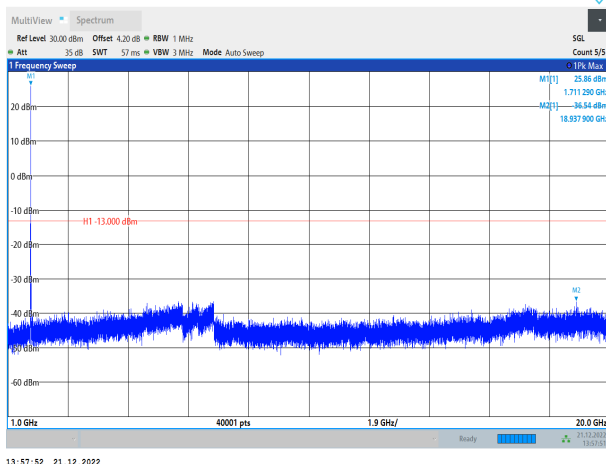
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



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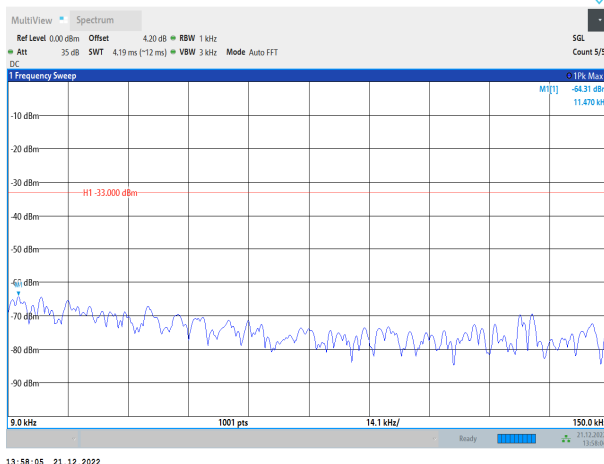
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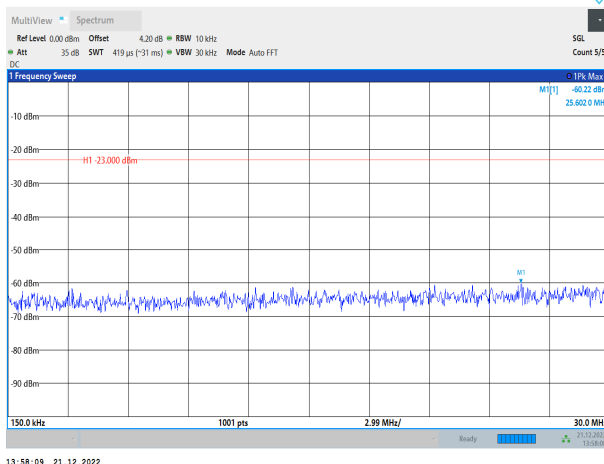
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



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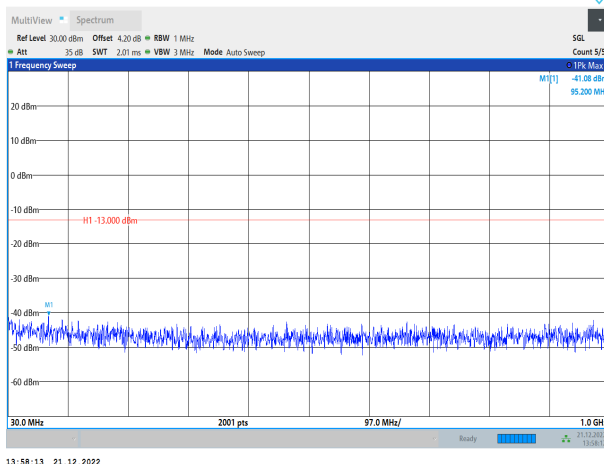
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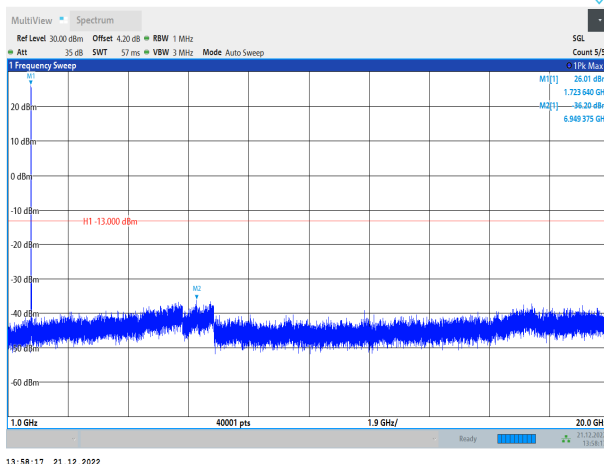
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



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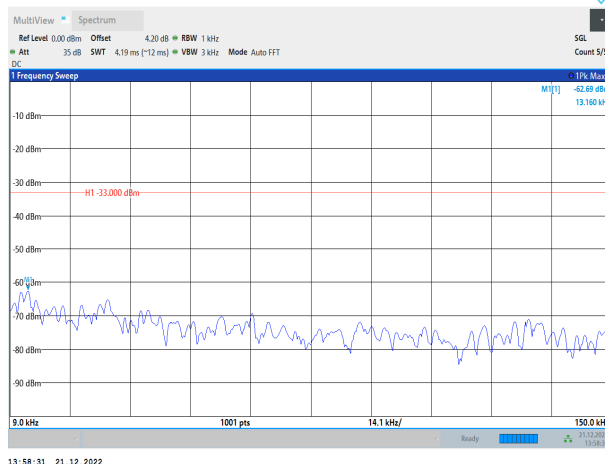
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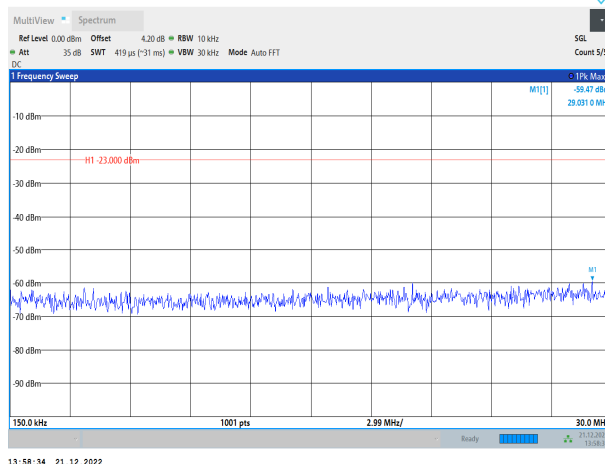
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



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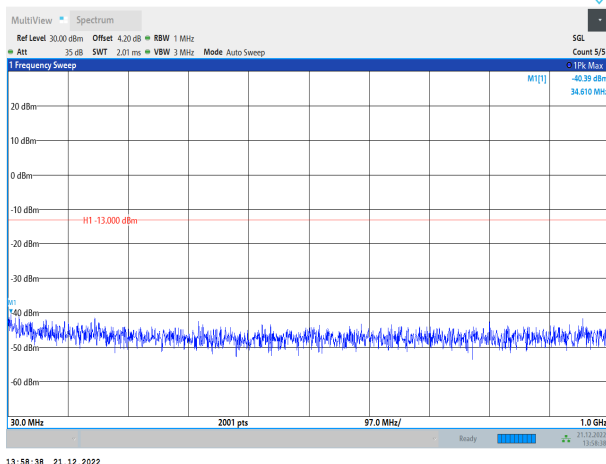
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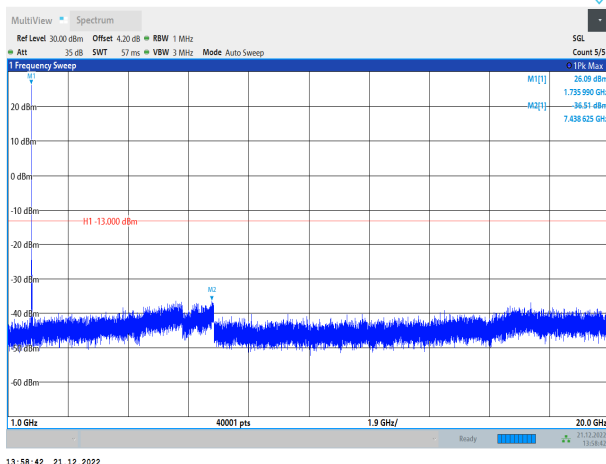
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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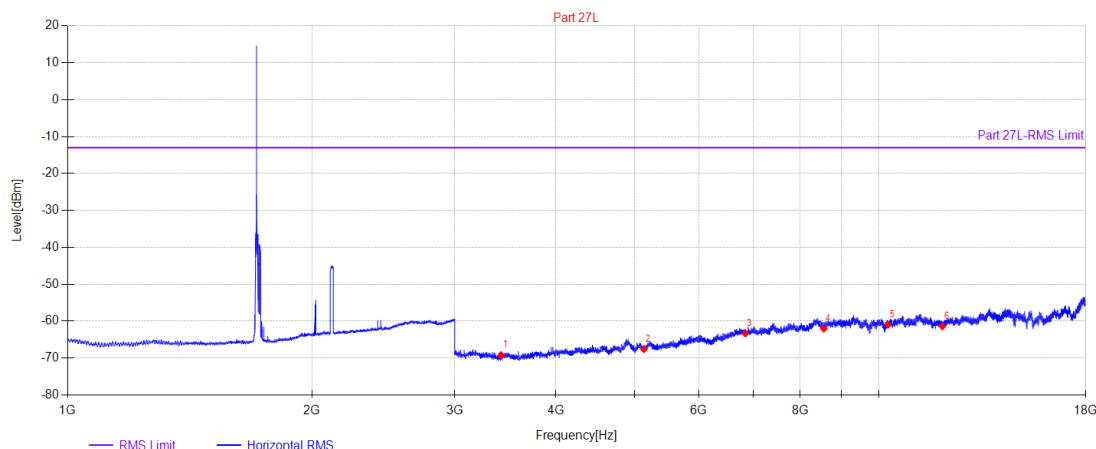
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Field Strength of Spurious Radiation

Test Band = LTE Band4_ TM1

Test Channel = Low



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	42.90	-46.28	29.45	-69.19	-13.00	56.19	215	130	Horizontal
2	5133.2700	40.07	-45.34	32.95	-67.58	-13.00	54.58	184	316	Horizontal
3	6844.3600	40.23	-44.14	35.89	-63.28	-13.00	50.28	175	1	Horizontal
4	8555.4500	37.06	-41.46	37.66	-62.00	-13.00	49.00	169	6	Horizontal
5	10266.5400	34.72	-39.23	38.83	-60.94	-13.00	47.94	122	6	Horizontal
6	11977.6300	32.43	-37.51	38.95	-61.40	-13.00	48.40	174	237	Horizontal



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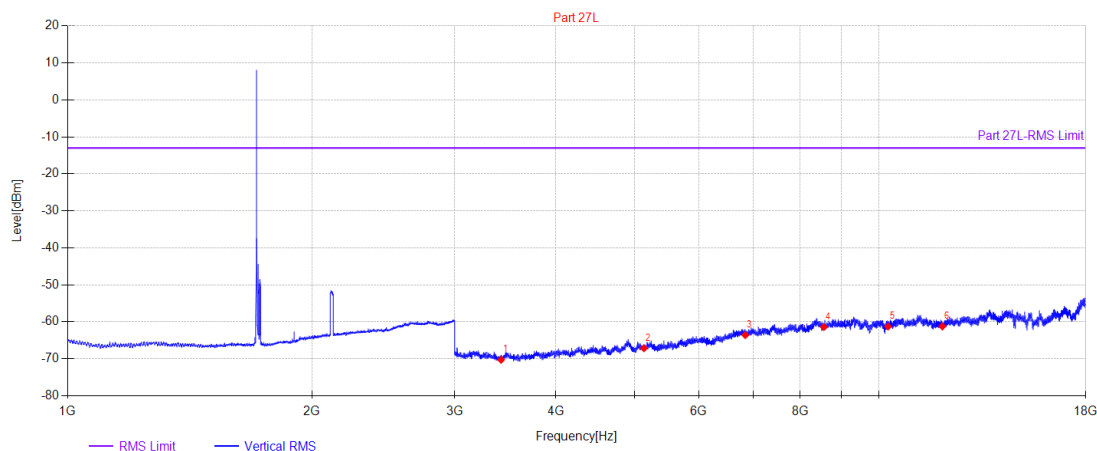
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NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	41.83	-46.28	29.45	-70.26	-13.00	57.26	284	0	Vertical
2	5133.2700	40.53	-45.34	32.95	-67.12	-13.00	54.12	174	252	Vertical
3	6844.3600	39.93	-44.14	35.89	-63.58	-13.00	50.58	165	269	Vertical
4	8555.4500	37.67	-41.46	37.66	-61.39	-13.00	48.39	128	162	Vertical
5	10266.5400	34.39	-39.23	38.83	-61.27	-13.00	48.27	136	224	Vertical
6	11977.6300	32.61	-37.51	38.95	-61.22	-13.00	48.22	288	176	Vertical



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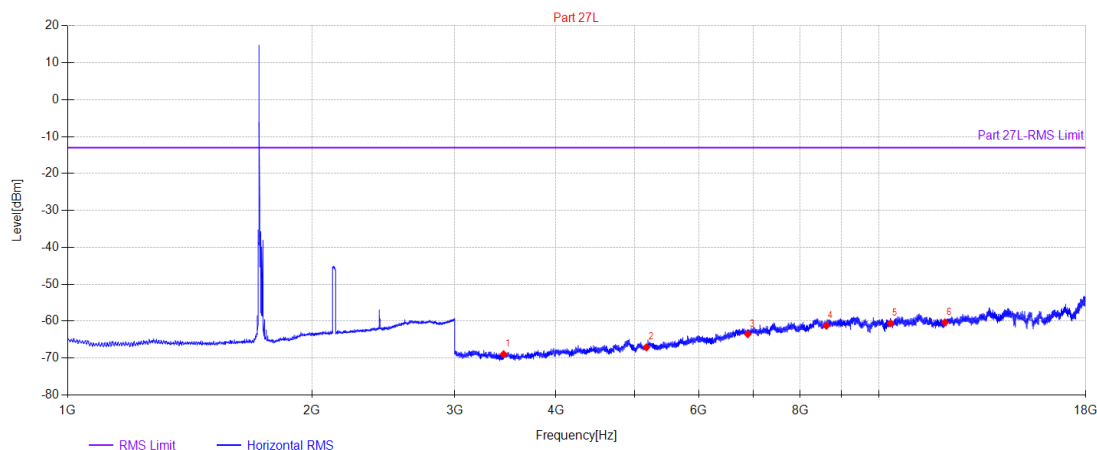
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Test Band = LTE Band4_ TM1

Test Channel = Mid



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	43.10	-46.27	29.47	-68.96	-13.00	55.96	215	71	Horizontal
2	5170.7700	40.50	-45.31	32.97	-67.09	-13.00	54.09	148	316	Horizontal
3	6894.3600	39.90	-44.10	35.95	-63.51	-13.00	50.51	175	133	Horizontal
4	8617.9500	37.64	-41.40	37.78	-61.24	-13.00	48.24	136	254	Horizontal
5	10341.5400	34.88	-39.06	38.85	-60.59	-13.00	47.59	299	147	Horizontal
6	12065.1300	33.34	-37.44	39.02	-60.34	-13.00	47.34	158	209	Horizontal



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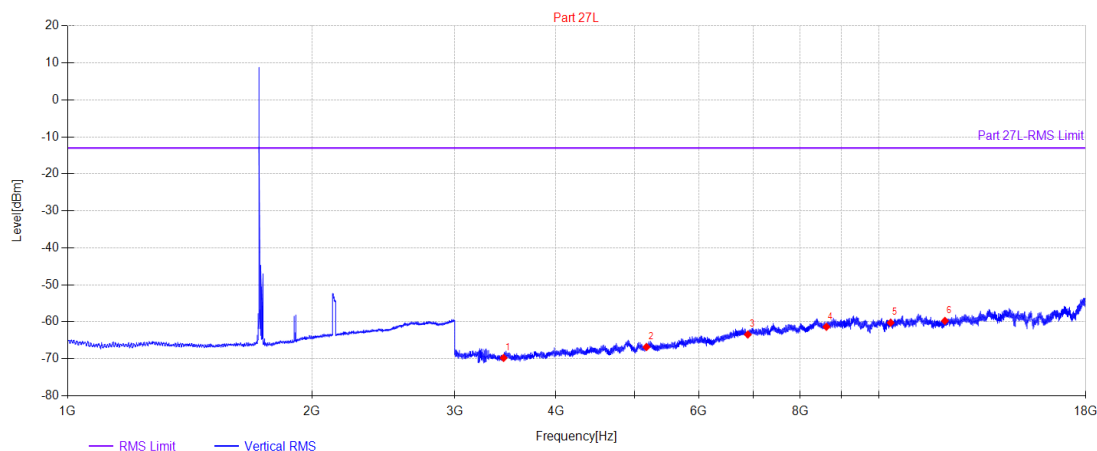
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NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	42.29	-46.27	29.47	-69.77	-13.00	56.77	148	117	Vertical
2	5170.7700	40.77	-45.31	32.97	-66.82	-13.00	53.82	122	24	Vertical
3	6894.3600	39.97	-44.10	35.95	-63.44	-13.00	50.44	158	132	Vertical
4	8617.9500	37.52	-41.40	37.78	-61.36	-13.00	48.36	169	163	Vertical
5	10341.5400	35.23	-39.06	38.85	-60.24	-13.00	47.24	174	238	Vertical
6	12065.1300	33.94	-37.44	39.02	-59.74	-13.00	46.74	158	1	Vertical



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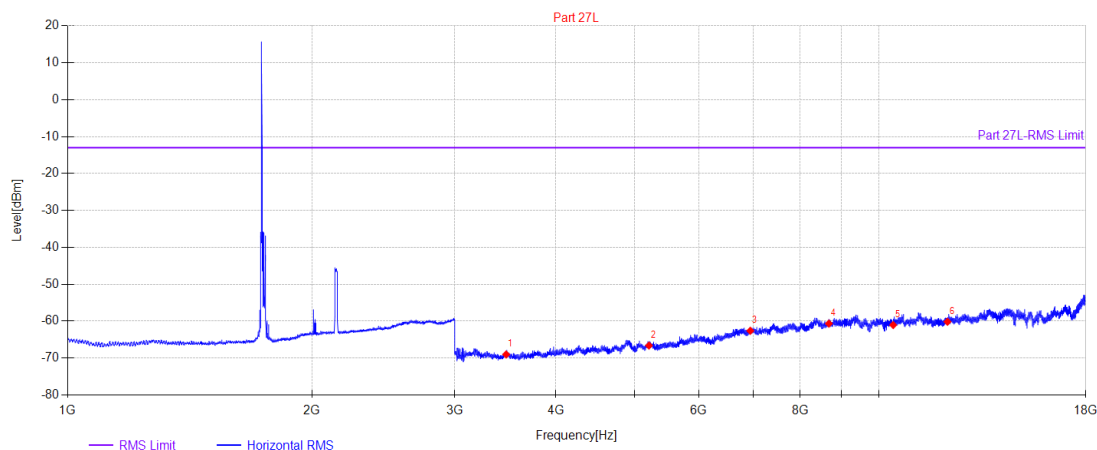
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Test Band = LTE Band4_ TM1

Test Channel = High



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	43.00	-46.27	29.50	-69.03	-13.00	56.03	274	1	Horizontal
2	5208.2700	40.93	-45.26	32.98	-66.61	-13.00	53.61	156	178	Horizontal
3	6944.3600	40.49	-43.85	36.01	-62.61	-13.00	49.61	291	357	Horizontal
4	8680.4500	38.34	-41.62	37.88	-60.66	-13.00	47.66	142	0	Horizontal
5	10416.5400	34.31	-38.97	38.88	-61.05	-13.00	48.05	133	147	Horizontal
6	12152.6300	33.42	-37.42	39.09	-60.17	-13.00	47.17	261	133	Horizontal



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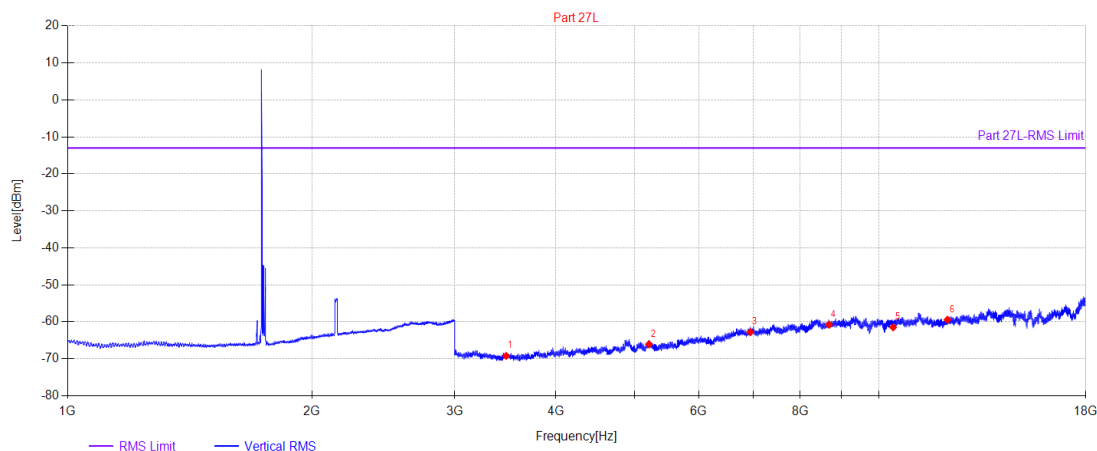
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NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	42.81	-46.27	29.50	-69.22	-13.00	56.22	214	102	Vertical
2	5208.2700	41.47	-45.26	32.98	-66.07	-13.00	53.07	154	268	Vertical
3	6944.3600	40.31	-43.85	36.01	-62.79	-13.00	49.79	195	207	Vertical
4	8680.4500	38.22	-41.62	37.88	-60.78	-13.00	47.78	156	102	Vertical
5	10416.5400	33.87	-38.97	38.88	-61.49	-13.00	48.49	253	13	Vertical
6	12152.6300	34.16	-37.42	39.09	-59.43	-13.00	46.43	188	85	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-2.30	-0.001328	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-2.80	-0.001616	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-1.20	-0.000693	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-1.80	-0.001039	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.60	-0.000924	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-1.50	-0.000866	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-2.30	-0.001328	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-1.60	-0.000924	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-0.40	-0.000231	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-2.40	-0.001385	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-1.60	-0.000924	PASS

---End of Attachment---



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