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Appendix B.4

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	23.13	22.73	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.31	22.91	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.2	22.8	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.44	22.04	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.2	22.8	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.36	22.96	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.24	22.84	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.42	22.02	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.16	22.76	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.25	22.85	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.17	22.77	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.37	21.97	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.42	22.02	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.63	22.23	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.49	22.09	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.43	21.03	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.37	21.97	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.55	22.15	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.49	22.09	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.47	21.07	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.34	21.94	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.54	22.14	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.36	21.96	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.42	21.02	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	20.46	20.06	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	20.59	20.19	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	20.51	20.11	30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	19.47	19.07	30	PASS



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Band4	1.4MHz	64QAM	20175	1RB#0	20.55	20.15	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	20.66	20.26	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	20.61	20.21	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.52	19.12	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	20.62	20.22	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	20.66	20.26	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	20.59	20.19	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	19.51	19.11	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.23	22.83	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.29	22.89	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.3	22.9	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.4	22	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.27	22.87	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.3	22.9	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.27	22.87	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.42	22.02	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.19	22.79	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.21	22.81	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.23	22.83	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.37	21.97	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.55	22.15	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.5	22.1	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.55	22.15	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.35	20.95	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.46	22.06	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.38	21.98	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.32	21.92	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.4	21	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.42	22.02	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.42	22.02	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.45	22.05	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.34	20.94	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	20.49	20.09	30	PASS



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Band4	3MHz	64QAM	19965	1RB#8	20.63	20.23	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	20.64	20.24	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	19.51	19.11	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	20.73	20.33	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.68	20.28	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	20.7	20.3	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.55	19.15	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	20.68	20.28	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	20.68	20.28	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	20.6	20.2	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	19.55	19.15	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.16	22.76	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.47	23.07	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.16	22.76	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.4	22	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.18	22.78	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.45	23.05	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.17	22.77	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.93	21.53	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.65	22.25	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.89	22.49	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.61	22.21	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.93	21.53	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.37	21.97	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.67	22.27	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.47	22.07	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.38	20.98	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.42	22.02	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.68	22.28	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.14	21.74	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.91	20.51	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.94	21.54	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.17	21.77	30	PASS



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Band4	5MHz	16QAM	20375	1RB#24	21.91	21.51	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.14	20.74	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	20.47	20.07	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	20.85	20.45	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	20.5	20.1	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	19.54	19.14	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.55	20.15	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	20.9	20.5	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	20.64	20.24	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	19.58	19.18	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.54	20.14	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	20.85	20.45	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	20.59	20.19	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.58	19.18	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.22	22.82	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.33	22.93	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.73	22.33	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22	21.6	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.75	22.35	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.91	22.51	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.8	22.4	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22	21.6	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.74	22.34	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.87	22.47	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.71	22.31	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.96	21.56	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.43	22.03	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.56	22.16	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.99	21.59	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.95	20.55	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.97	21.57	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.14	21.74	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.04	21.64	30	PASS



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Band4	10MHz	16QAM	20350	1RB#0	22.02	21.62	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.12	21.72	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.85	21.45	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.91	20.51	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	20.55	20.15	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	20.7	20.3	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	20.61	20.21	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	19.6	19.2	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	20.65	20.25	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	20.85	20.45	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	20.66	20.26	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	19.65	19.25	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	20.59	20.19	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	20.77	20.37	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	20.65	20.25	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.66	19.26	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.12	22.72	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.32	22.92	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.91	22.51	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.97	21.57	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.71	22.31	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.84	22.44	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.75	22.35	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.99	21.59	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.65	22.25	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.85	22.45	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.73	22.33	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.9	21.5	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.41	22.01	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.41	22.01	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.99	21.59	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.92	20.52	30	PASS



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Band4	15MHz	16QAM	20175	1RB#0	21.84	21.44	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.03	21.63	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22	21.6	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.95	20.55	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.95	21.55	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.07	21.67	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.83	21.43	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.88	20.48	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	20.42	20.02	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	20.59	20.19	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	20.57	20.17	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	19.53	19.13	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.53	20.13	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	20.66	20.26	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	20.58	20.18	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	19.57	19.17	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	20.51	20.11	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	20.7	20.3	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	20.62	20.22	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.57	19.17	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.06	22.66	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.36	22.96	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.68	22.28	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.01	21.61	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.62	22.22	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.93	22.53	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.68	22.28	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.01	21.61	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.61	22.21	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.93	22.53	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.64	22.24	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.83	21.43	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.3	21.9	30	PASS



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Band4	20MHz	16QAM	20050	1RB#49	22.11	21.71	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.96	21.56	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.95	20.55	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.77	21.37	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.15	21.75	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.95	21.55	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.96	20.56	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.8	21.4	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.23	21.83	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.95	21.55	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.79	20.39	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.33	19.93	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	20.69	20.29	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.55	20.15	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	19.53	19.13	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.5	20.1	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	20.76	20.36	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.59	20.19	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	19.56	19.16	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	20.46	20.06	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	20.72	20.32	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.53	20.13	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.57	19.17	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	5.04	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.18	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.24	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.80	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.94	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.02	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.18	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.18	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.26	13	PASS



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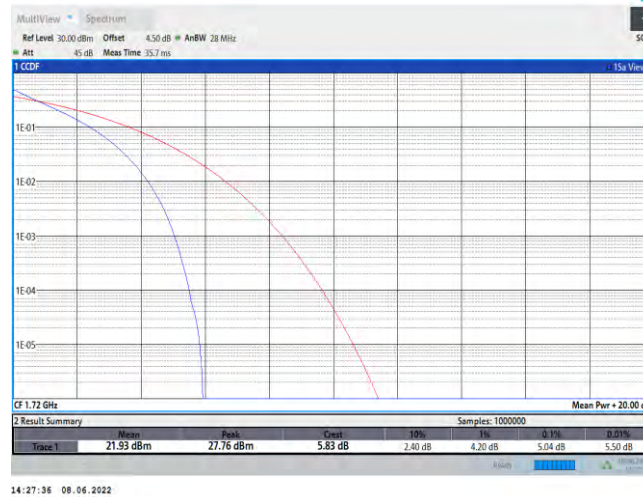
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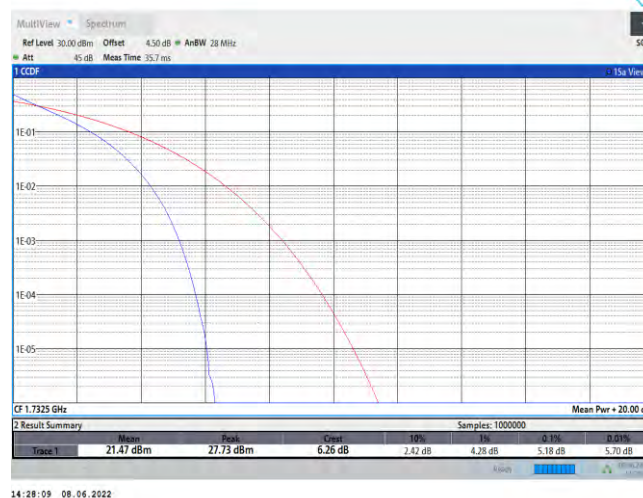
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Test Graphs

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



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



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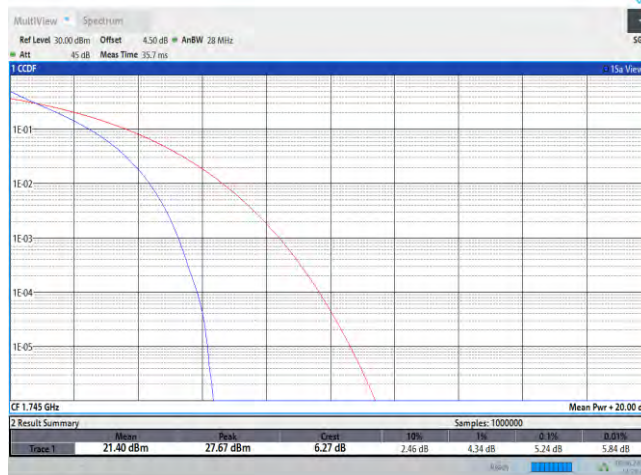
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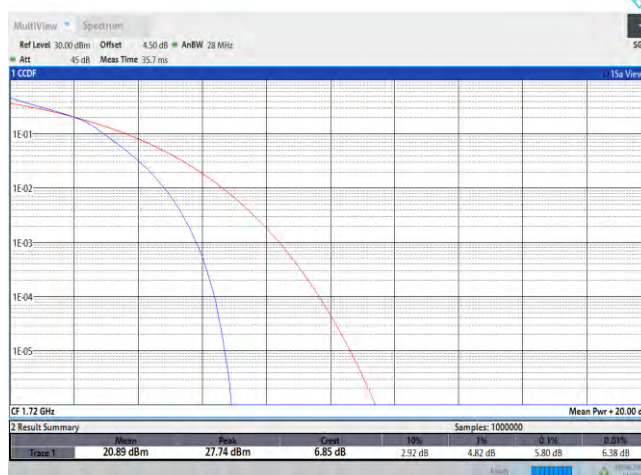
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Band4-20MHz-QPSK-20300-100RB#0



14:28:43 08.06.2022

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



14:27:52 08.06.2022



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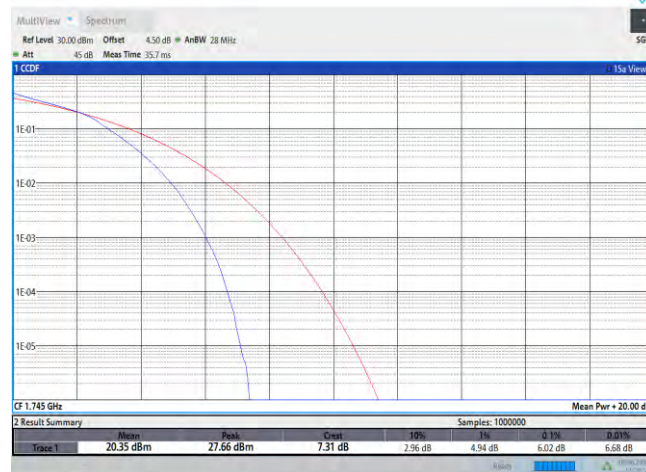
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Band4-20MHz-16QAM-20175-100RB#0



14:28:26 08.06.2022

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



14:28:59 08.06.2022



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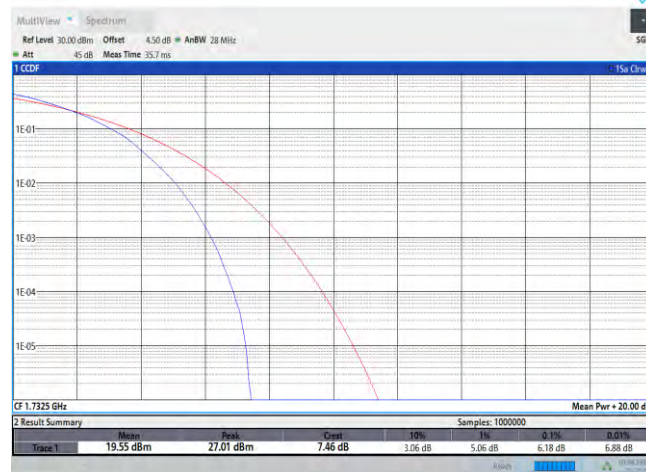
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Band4-20MHz-64QAM-20050-100RB#0



20:32:11 03.08.2022

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



20:32:28 03.08.2022



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20:32:45 03.08.2022



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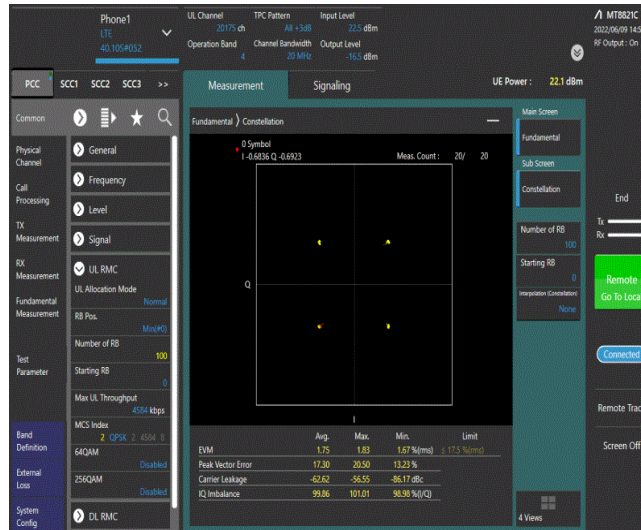
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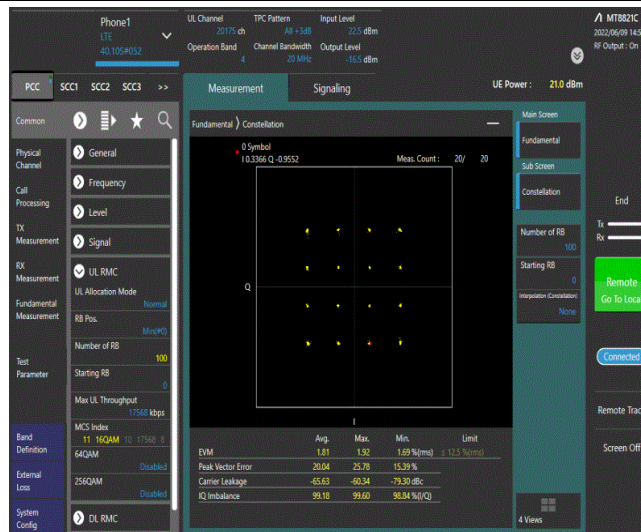
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Band4-20MHz-16QAM-20175-100RB#0



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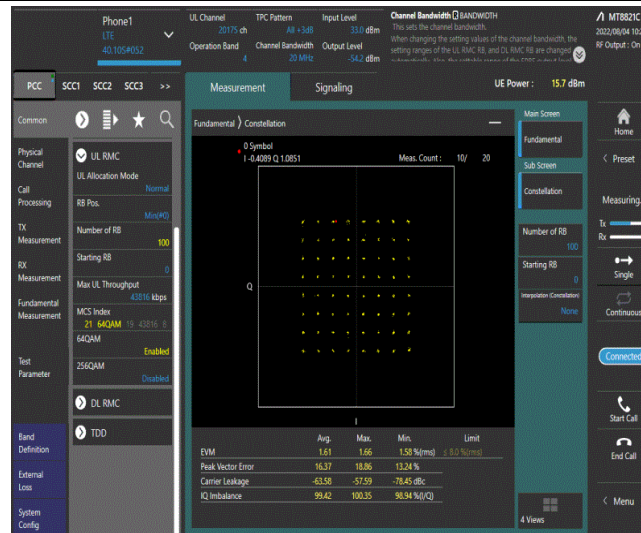
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Band4-20MHz-64QAM-20175-100RB#0



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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	1.085	1.28	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.085	1.28	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.085	1.28	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.098	1.30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.098	1.30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.097	1.30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.096	1.32	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.095	1.31	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.095	1.32	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.685	2.90	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.69	2.90	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.689	2.91	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.68	2.90	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	2.91	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.678	2.90	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.68	2.90	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.682	2.89	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.68	2.90	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.47	4.82	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.468	4.82	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.468	4.82	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.464	4.85	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.463	4.85	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.469	4.83	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.477	4.85	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.469	4.82	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.478	4.85	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.944	9.64	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.62	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.934	9.60	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.923	9.56	PASS



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Band4	10MHz	16QAM	20175	50RB#0	8.918	9.52	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.92	9.54	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.934	9.60	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.933	9.62	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.935	9.64	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.483	14.64	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.486	14.64	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.468	14.67	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.46	14.73	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.455	14.70	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.465	14.79	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.446	14.94	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.442	14.67	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.442	14.73	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.935	19.20	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.928	19.44	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.928	19.28	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.91	19.32	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.907	19.28	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.888	19.20	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.887	19.32	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.895	19.24	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.862	19.28	PASS



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Test Graphs

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



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



Band4-1.4MHz-QPSK-20393-6RB#0



14:02:29 08.06.2022

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



14:01:36 08.06.2022



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14:02:11 08.06.2022

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



14:02:47 08.06.2022



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



20:24:47 03.08.2022

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



20:25:04 03.08.2022



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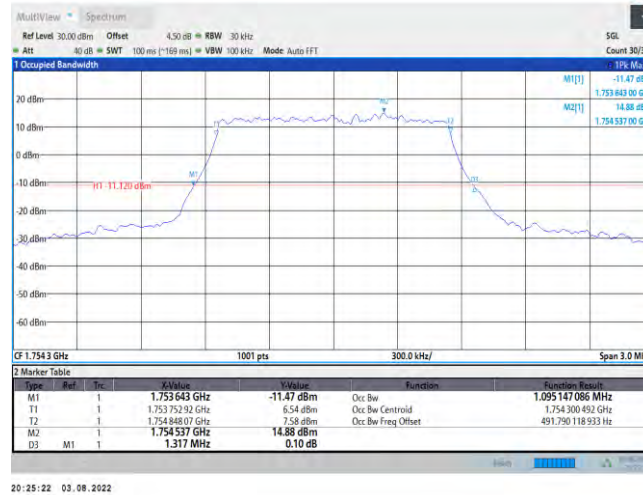
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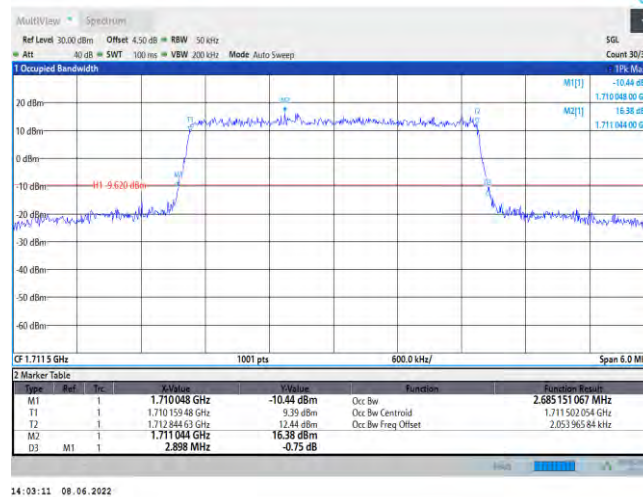
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Band4-1.4MHz-64QAM-20393-6RB#0



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



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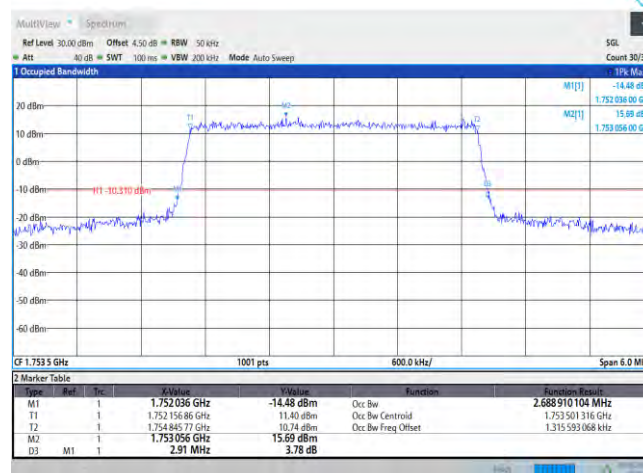
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Band4-3MHz-QPSK-20175-15RB#0



14:03:44 08.06.2022

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



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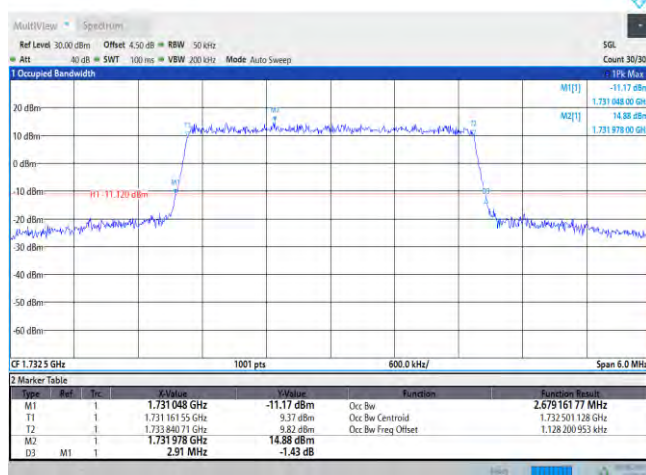
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Band4-3MHz-16QAM-19965-15RB#0



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14:04:00 08.06.2022



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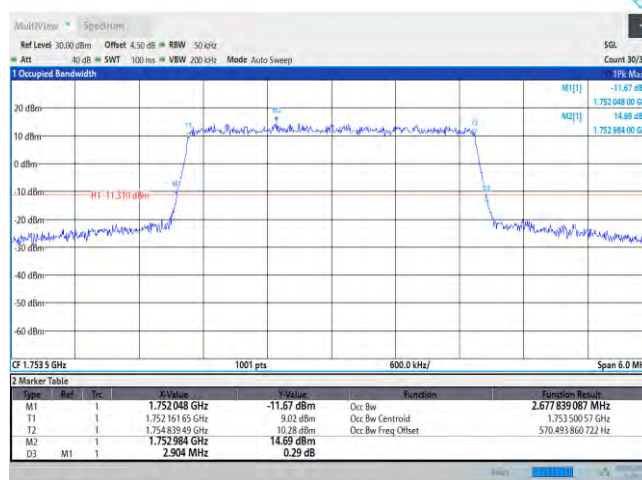
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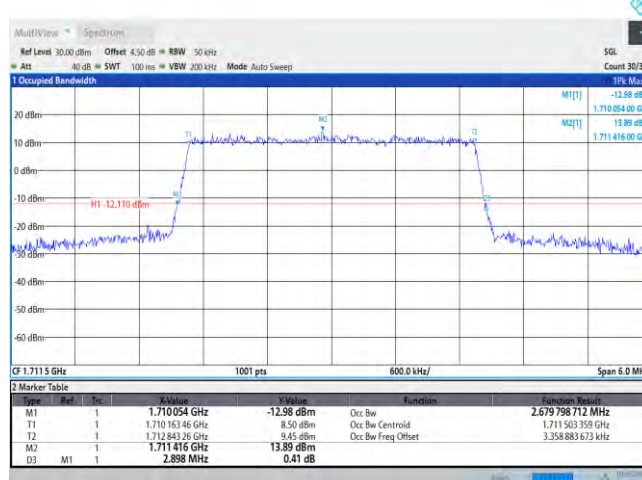
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Band4-3MHz-16QAM-20385-15RB#0



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Band4-3MHz-64QAM-19965-15RB#0



20:25:58 03.08.2022



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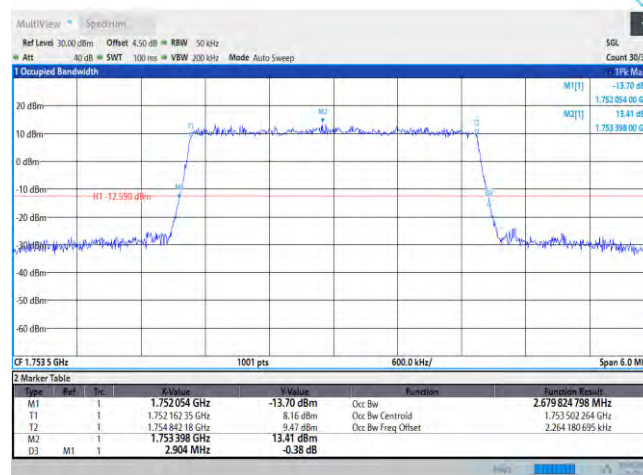
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Band4-3MHz-64QAM-20175-15RB#0



20:26:14 03.08.2022

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



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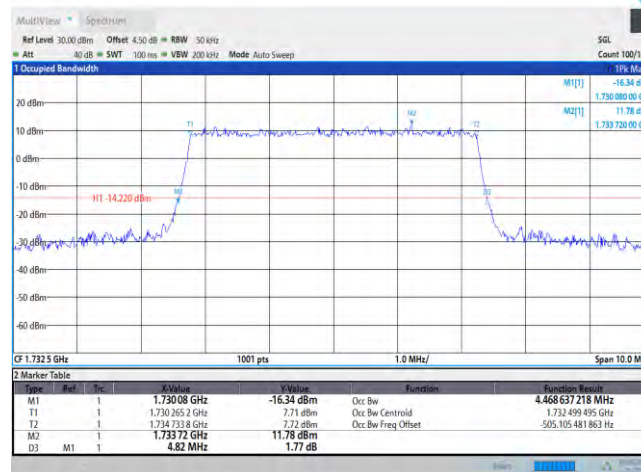
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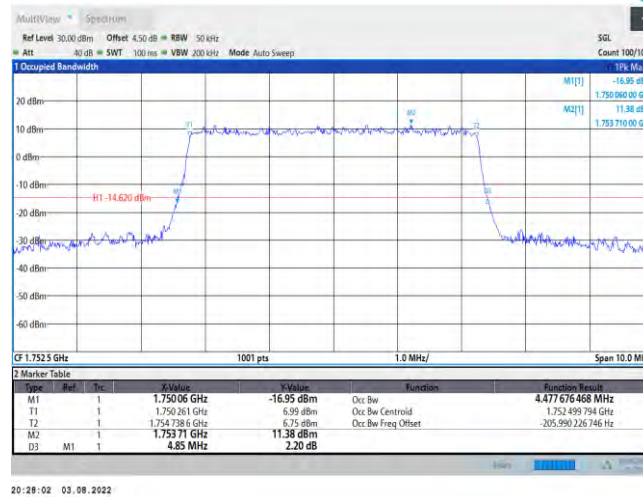
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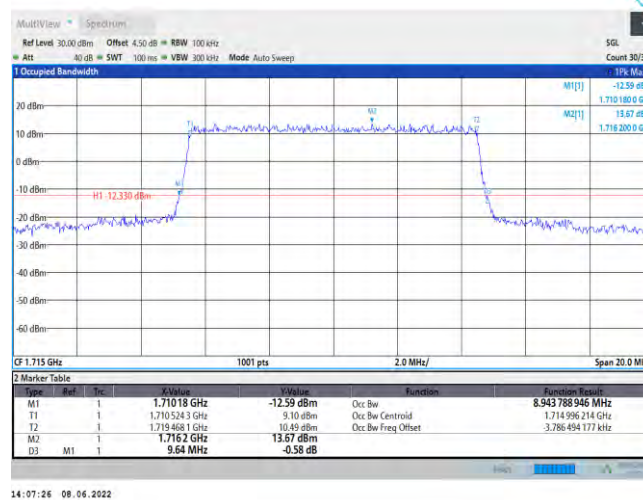
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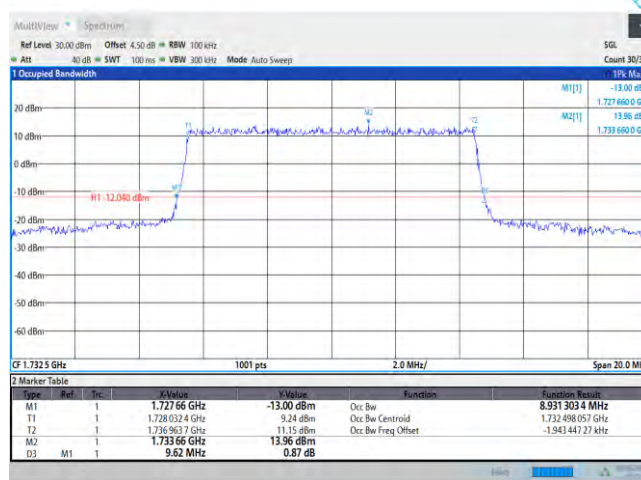
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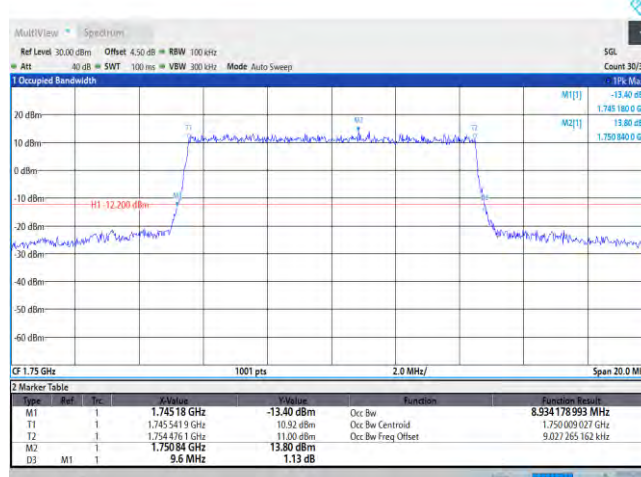
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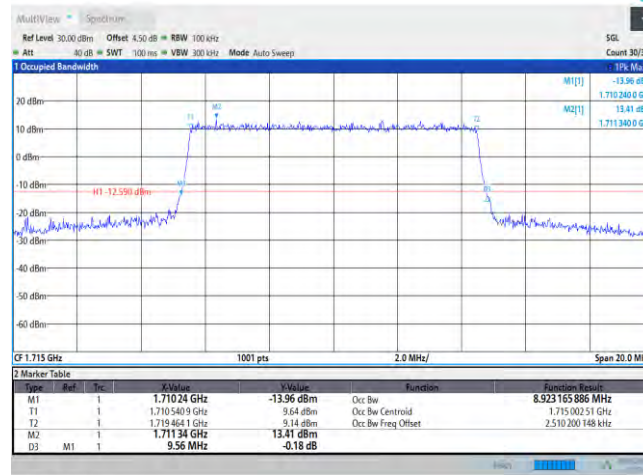
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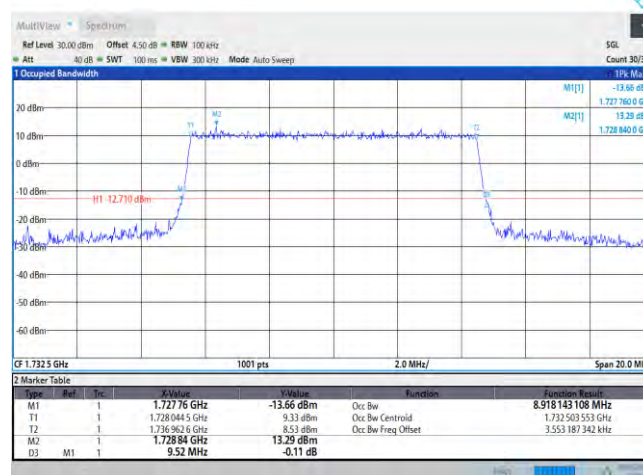
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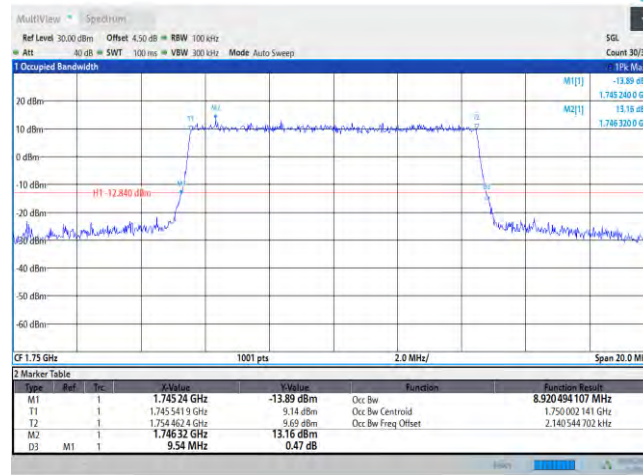
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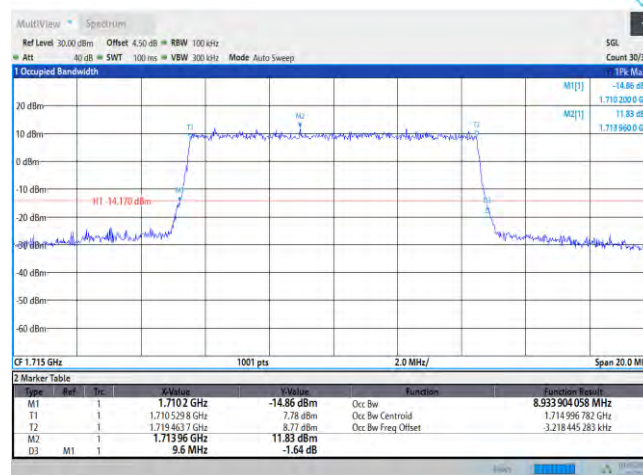
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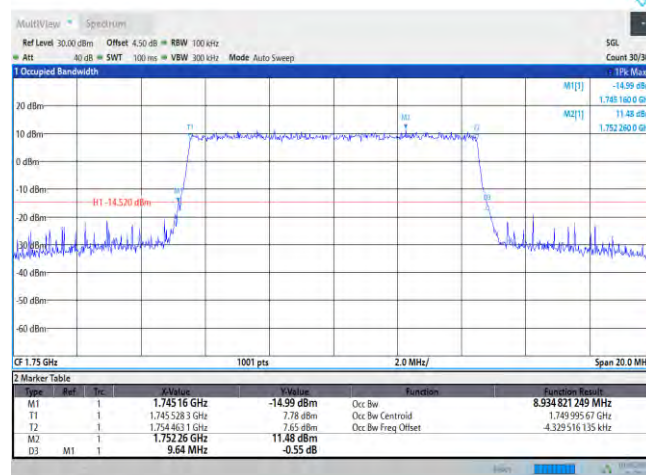
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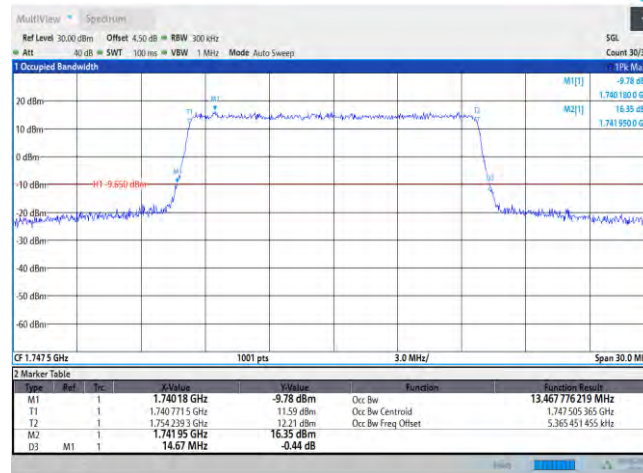
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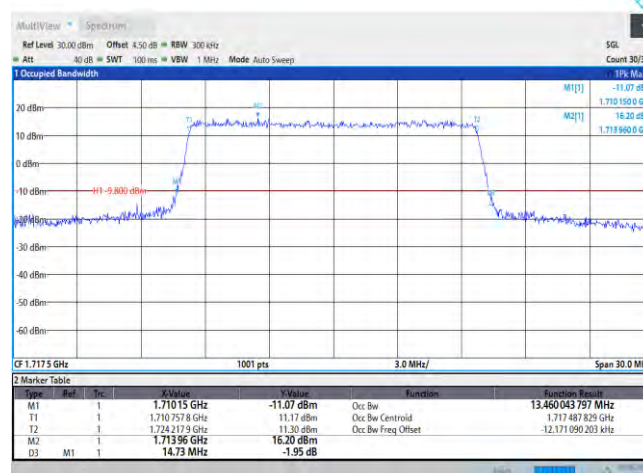
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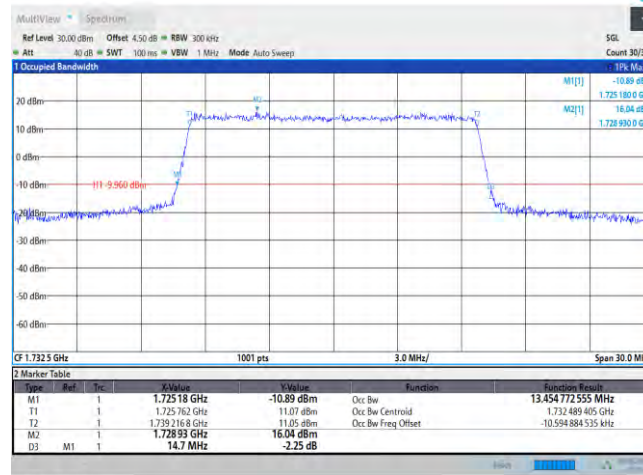
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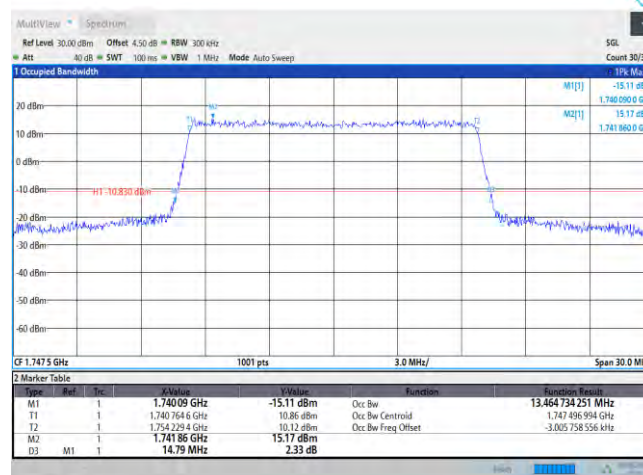
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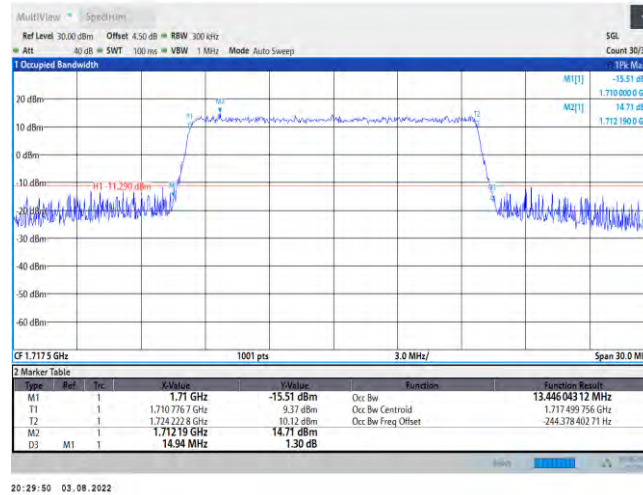
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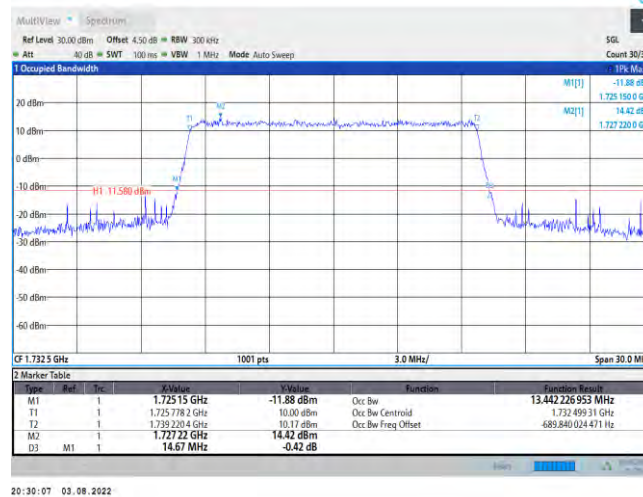
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Band4-15MHz-64QAM-20025-75RB#0



Band4-15MHz-64QAM-20175-75RB#0



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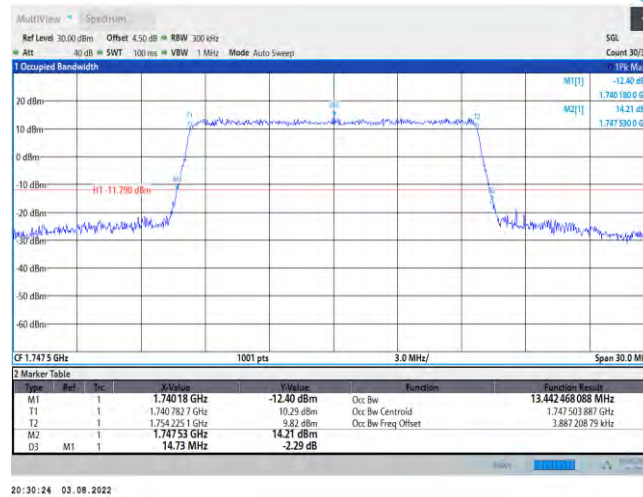
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Band4-15MHz-64QAM-20325-75RB#0



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



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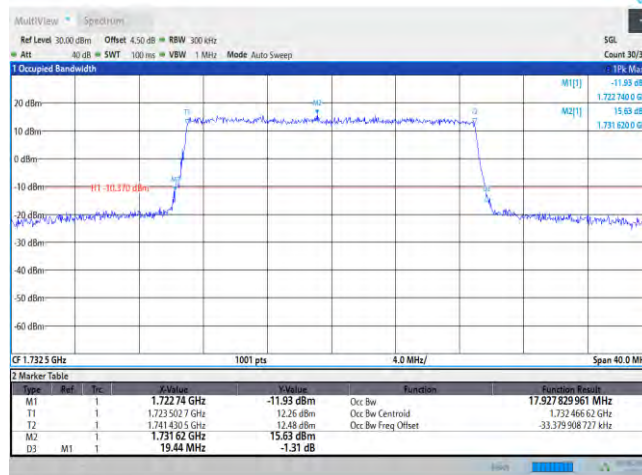
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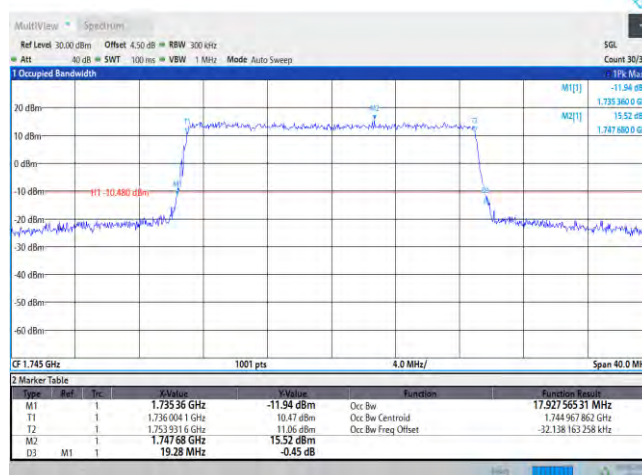
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Band4-20MHz-QPSK-20300-100RB#0



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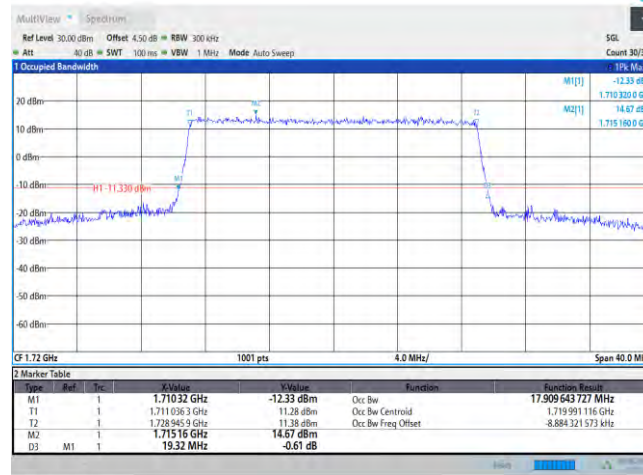
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20:31:01 03.08.2022



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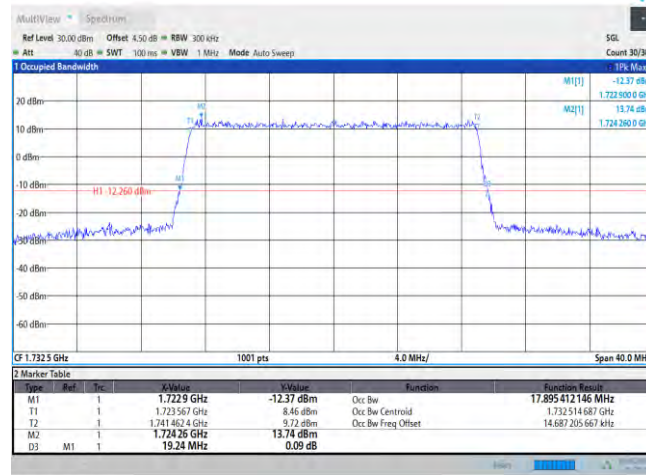
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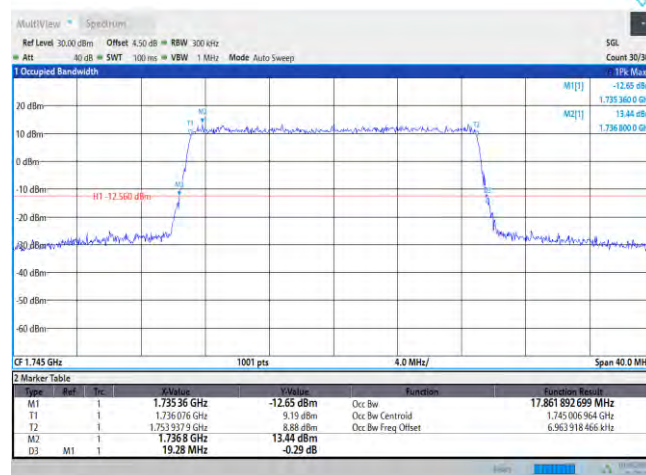
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Band4-20MHz-64QAM-20300-100RB#0



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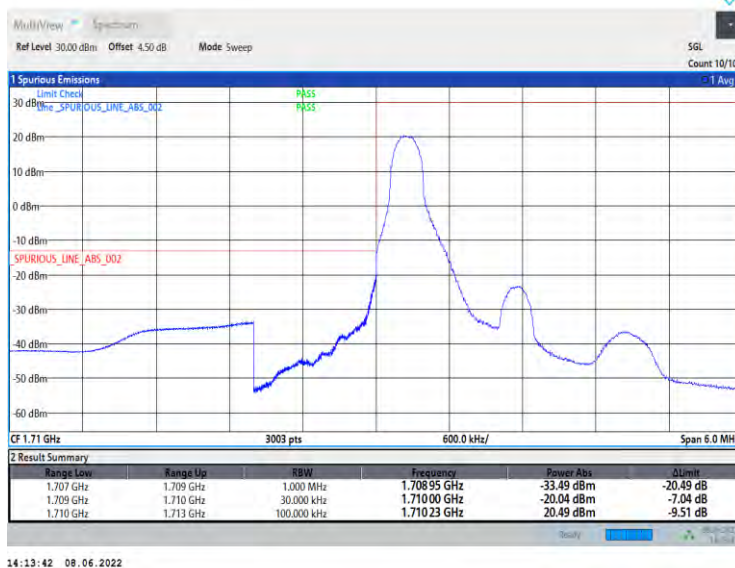
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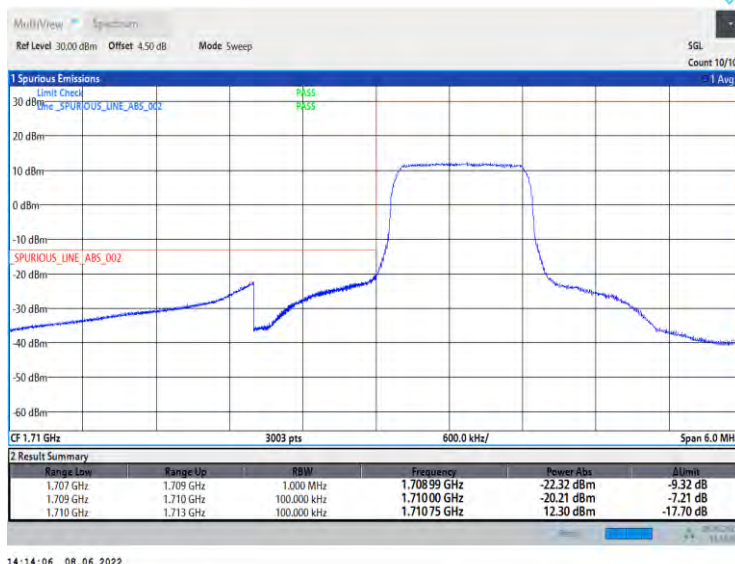
Band Edge

Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



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



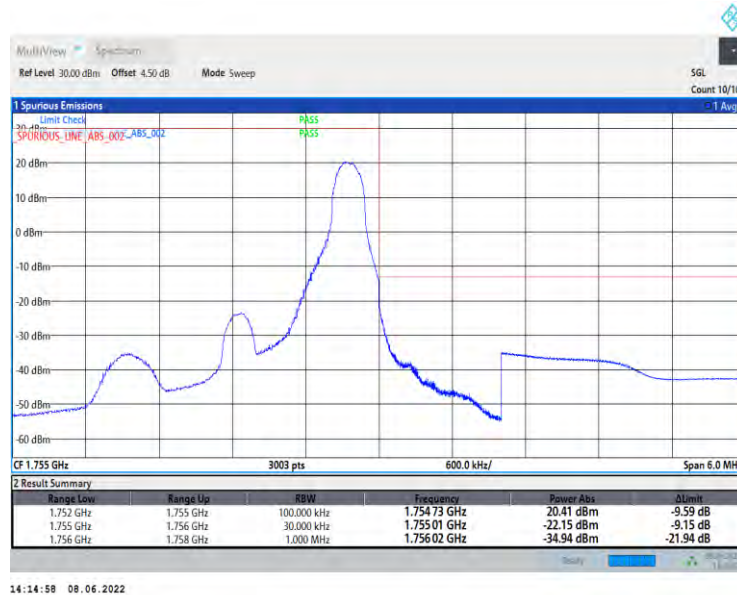
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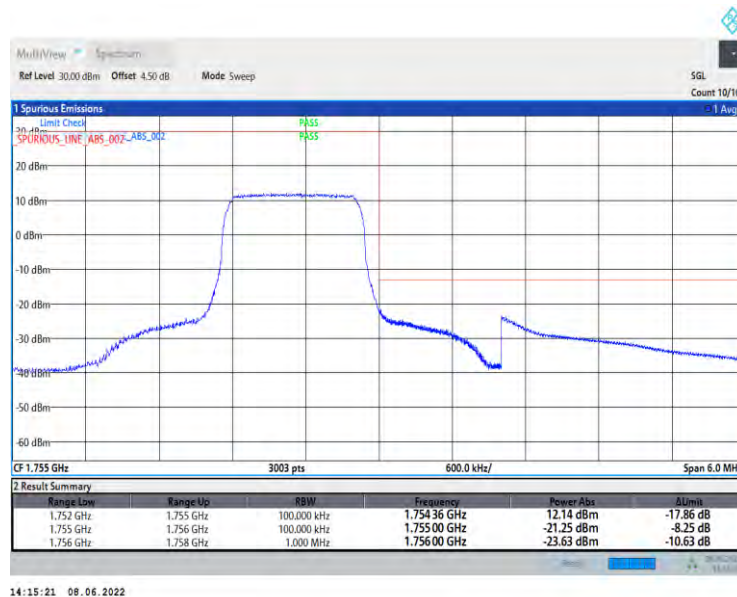
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Band4-1.4MHz-QPSK-20393-1RB#5



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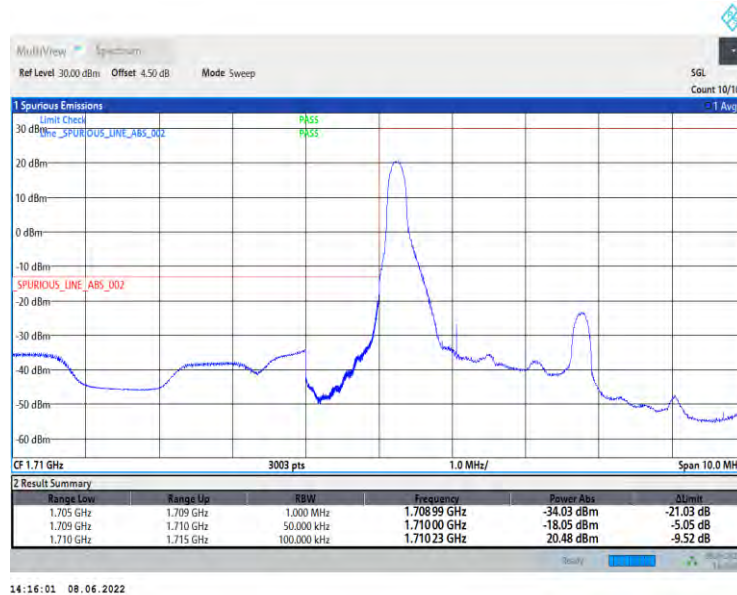
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Band4-3MHz-QPSK-19965-1RB#0



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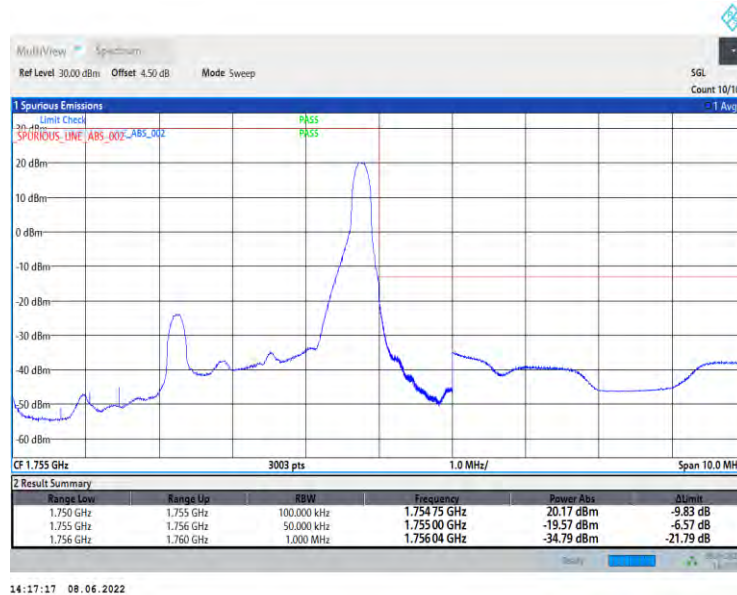


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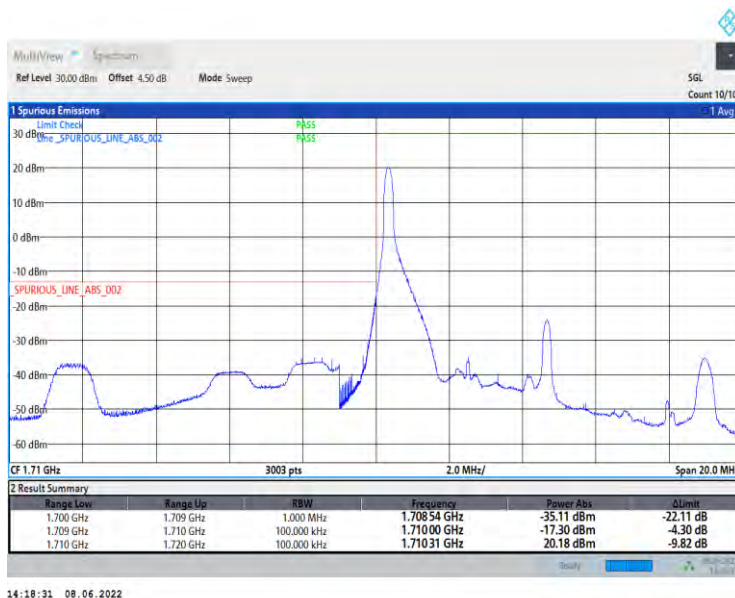
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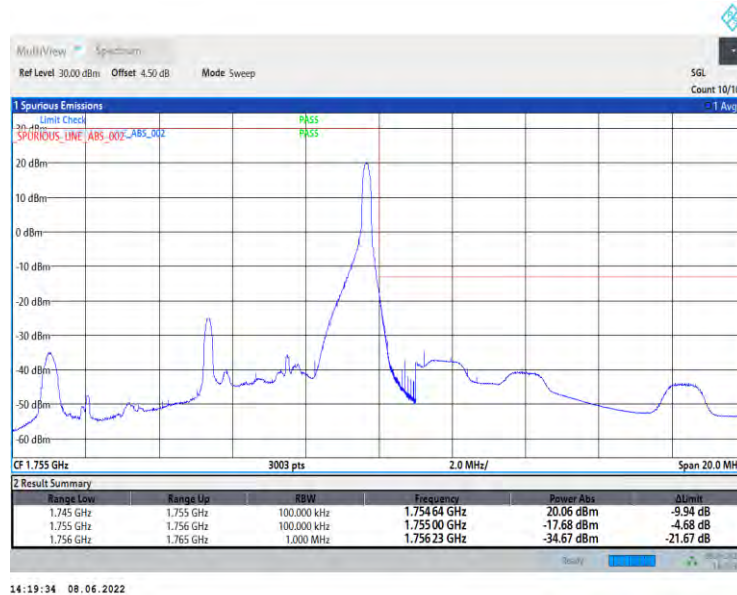
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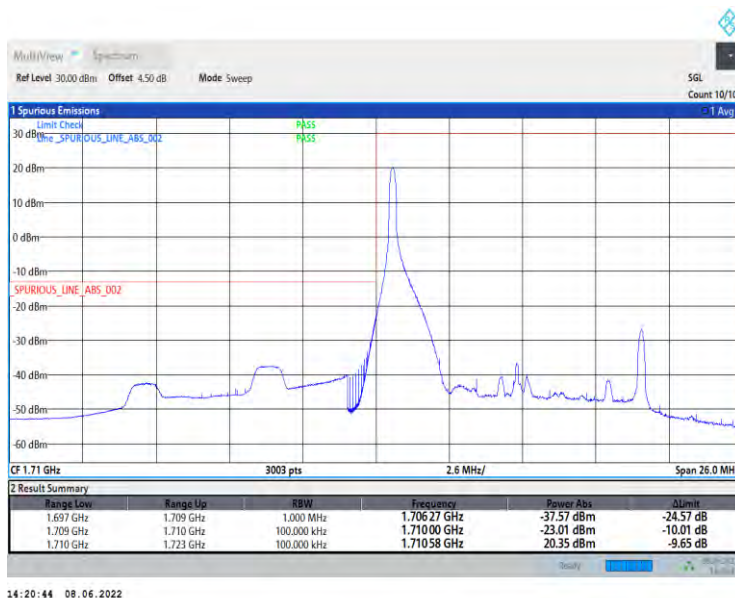
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Band4-10MHz-QPSK-20000-50RB#0



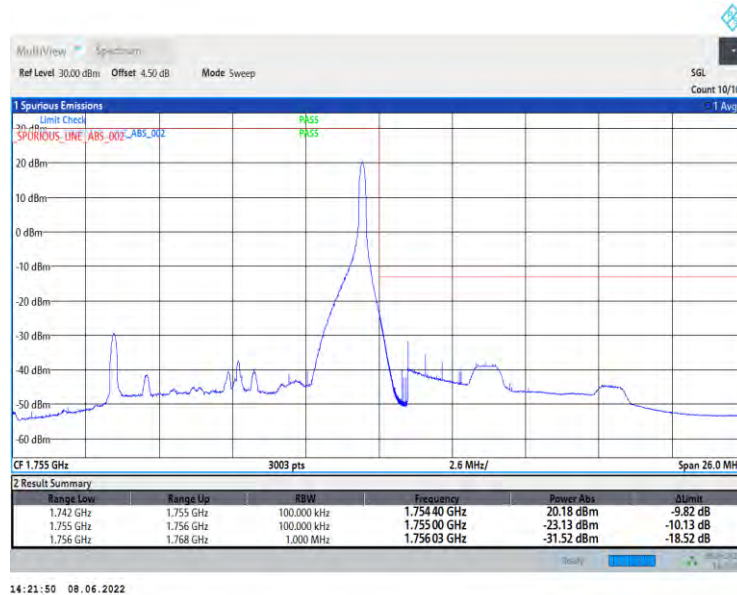
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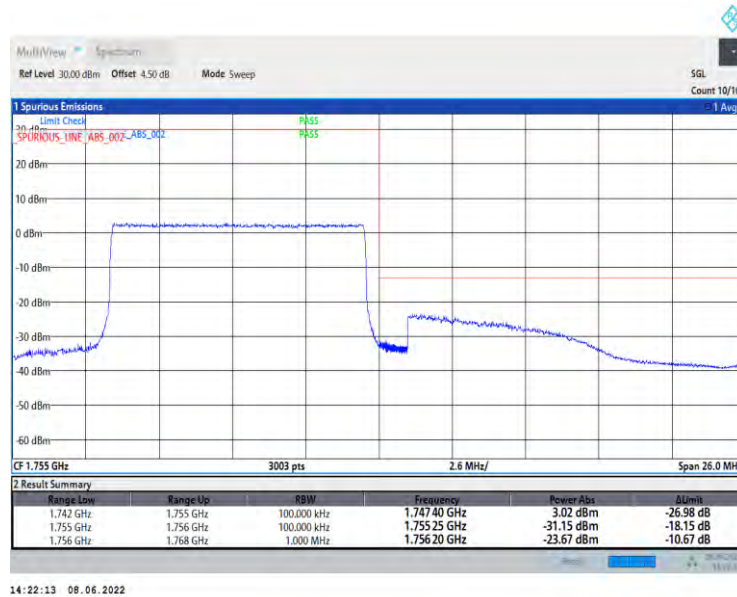
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Band4-10MHz-QPSK-20350-1RB#49



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

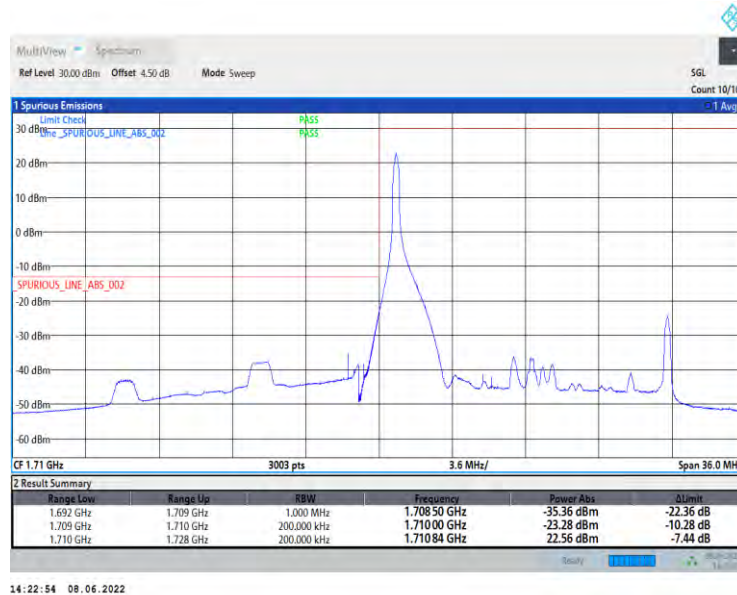


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Band4-15MHz-QPSK-20025-1RB#0



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



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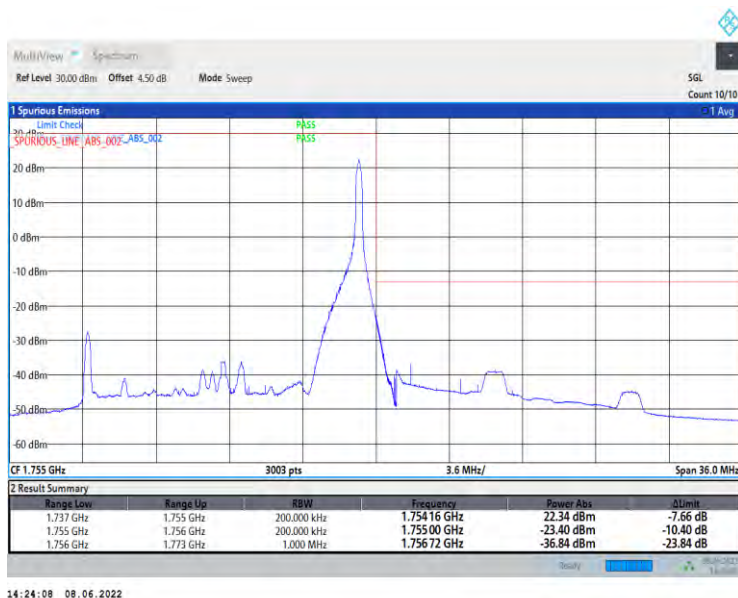
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Band4-15MHz-QPSK-20325-1RB#74



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



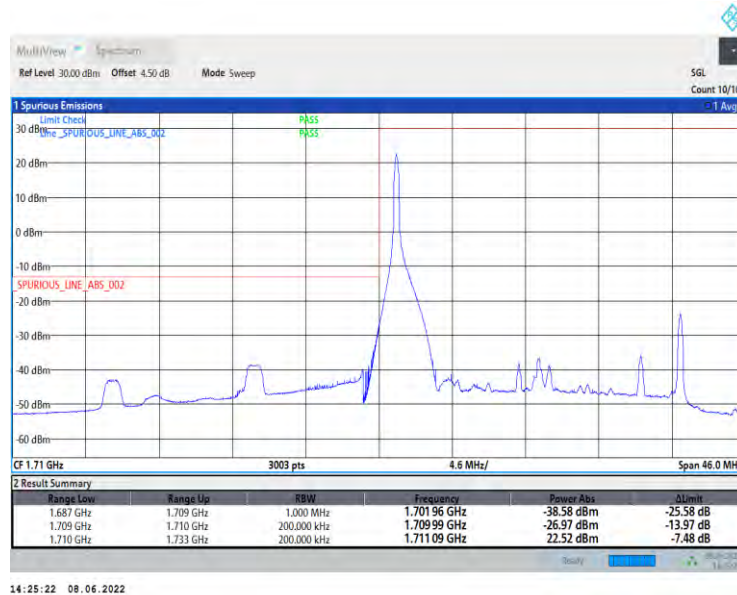
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Band4-20MHz-QPSK-20050-1RB#0



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



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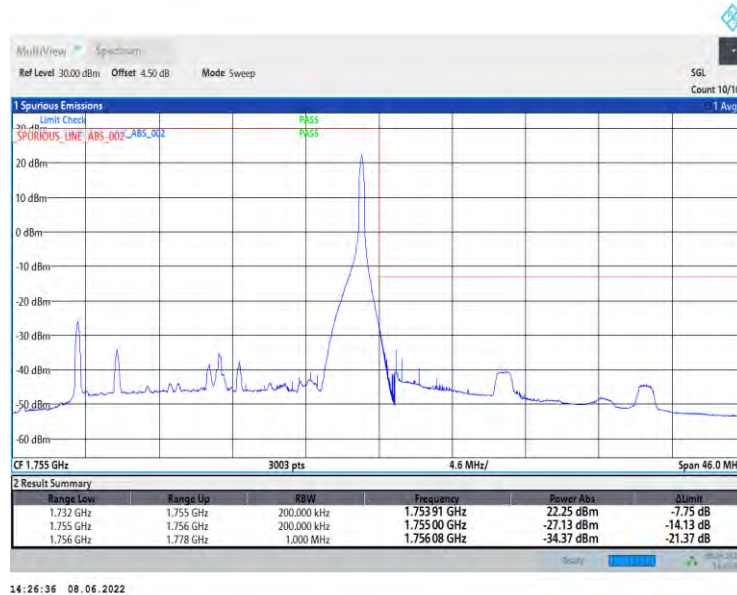
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Band4-20MHz-QPSK-20300-1RB#99



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



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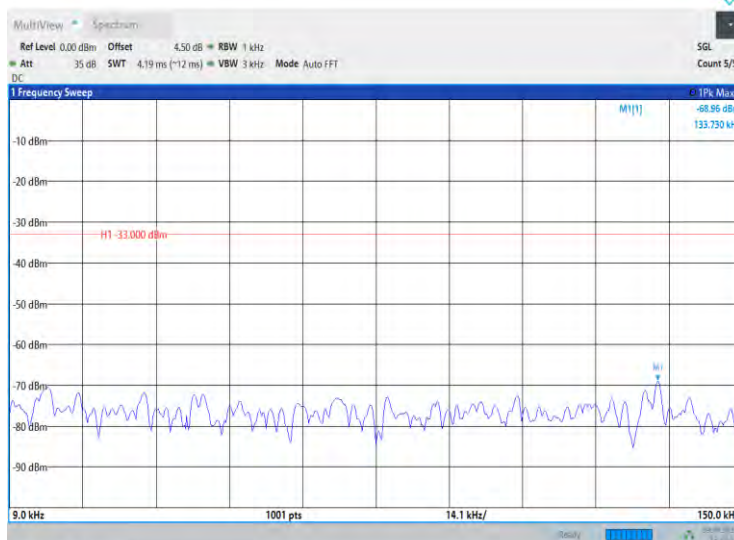
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Conducted Spurious Emission

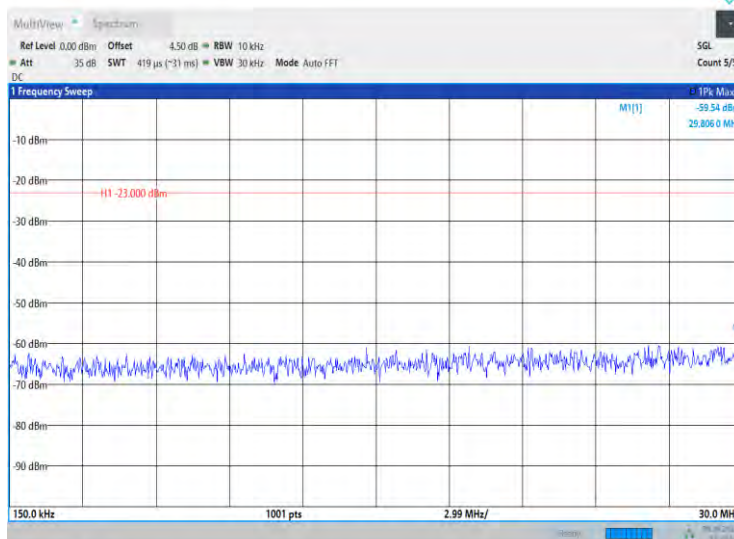
Test Graphs

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



16:20:52 09.06.2022

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



16:20:56 09.06.2022



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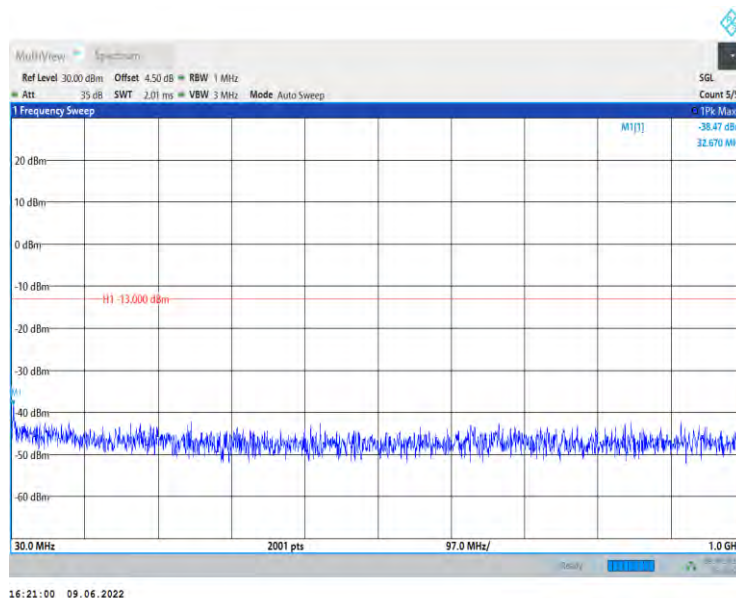
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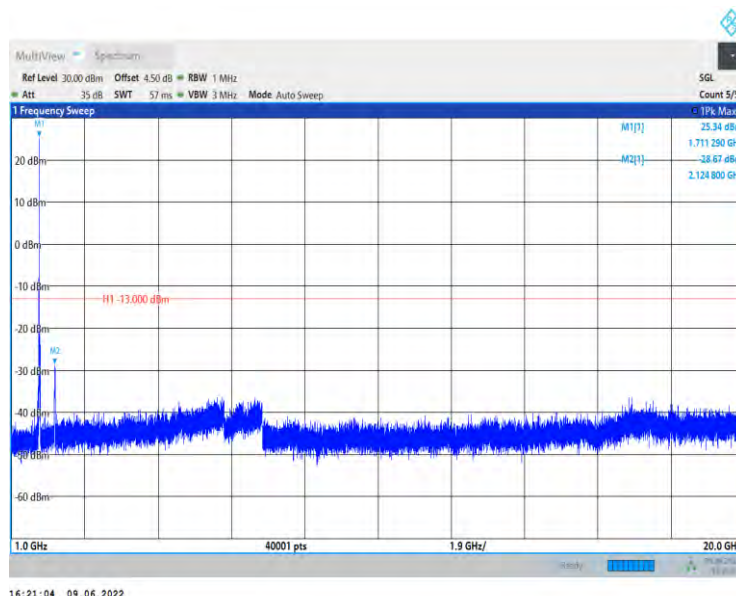
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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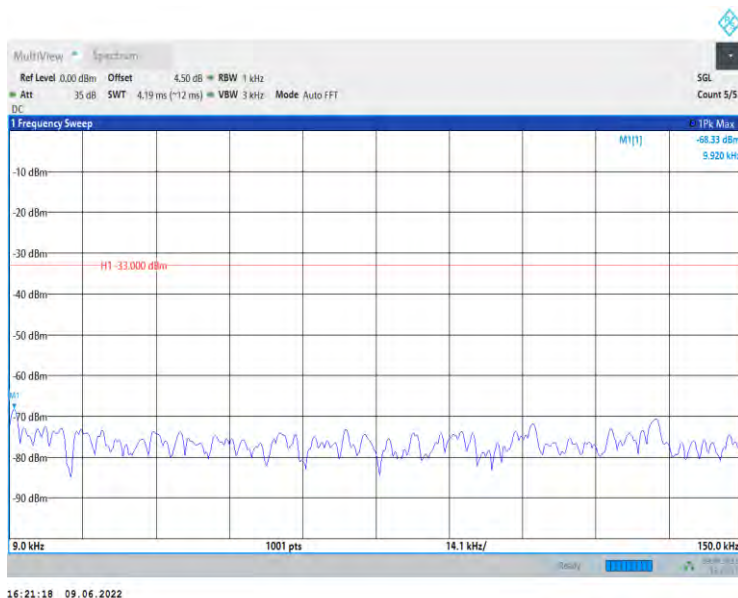
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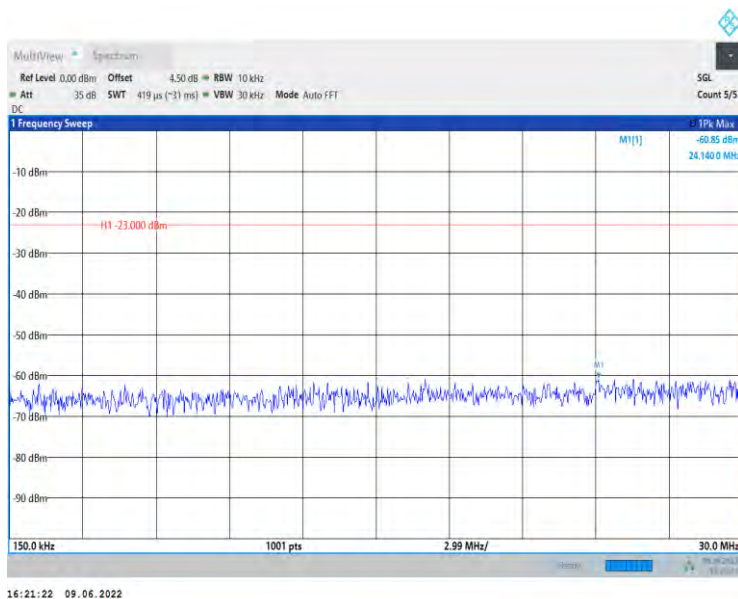
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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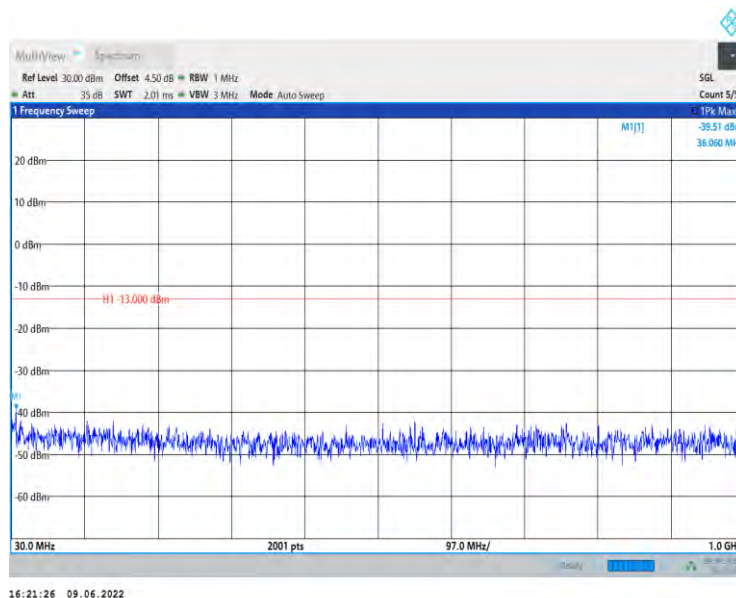
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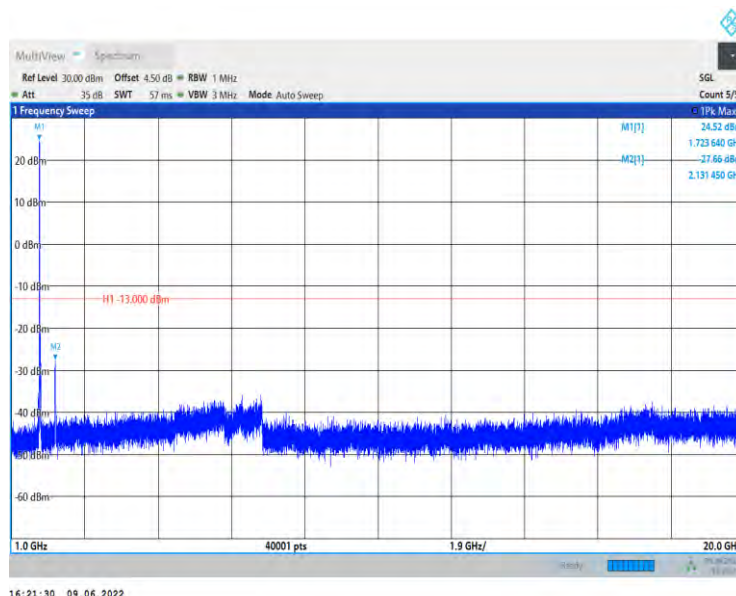
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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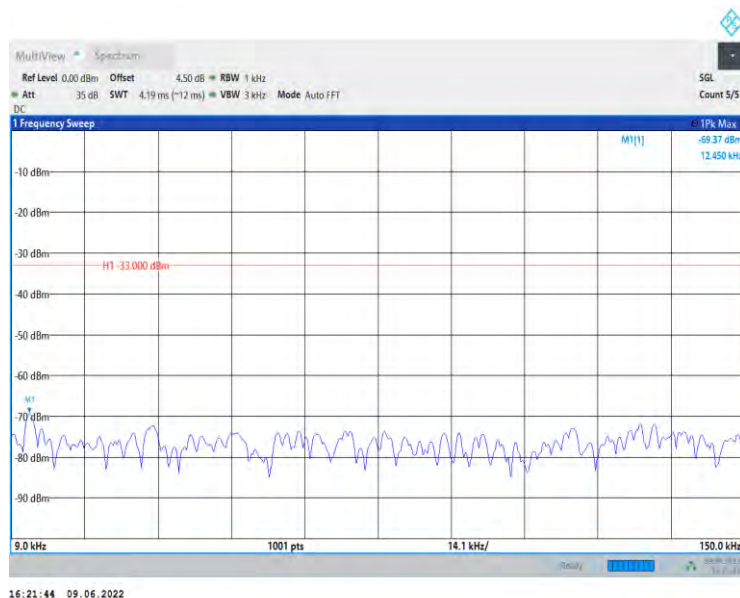
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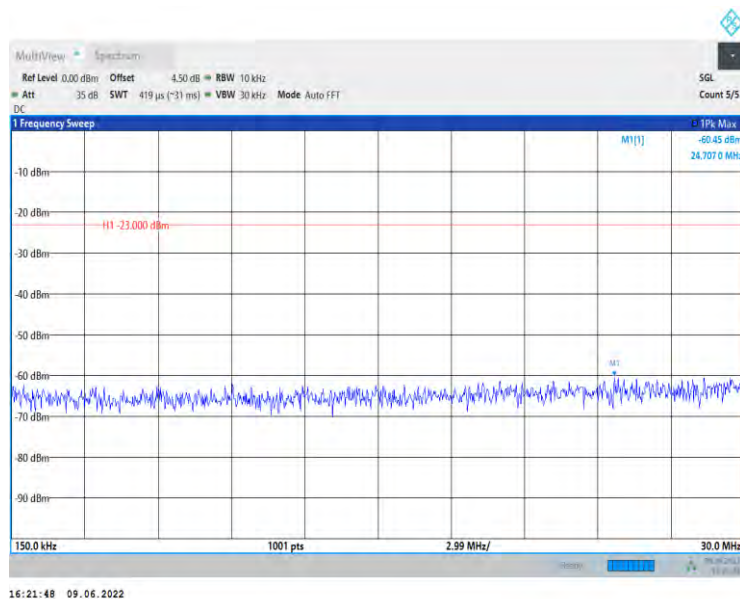
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



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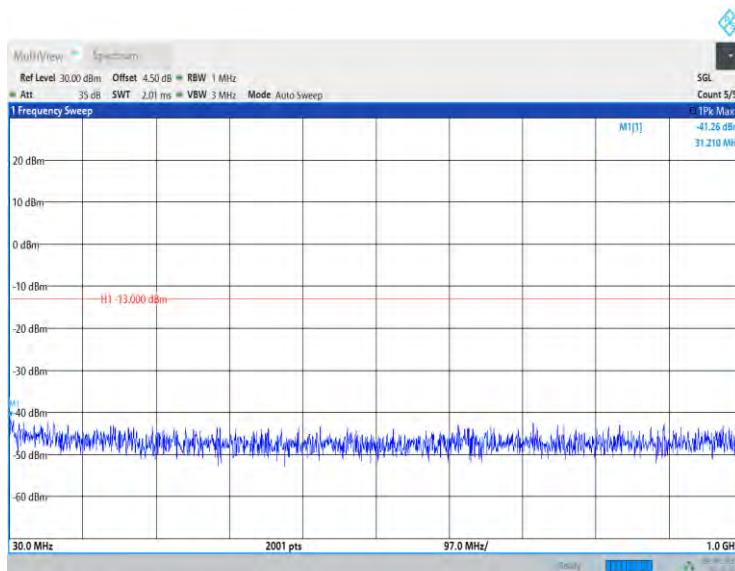
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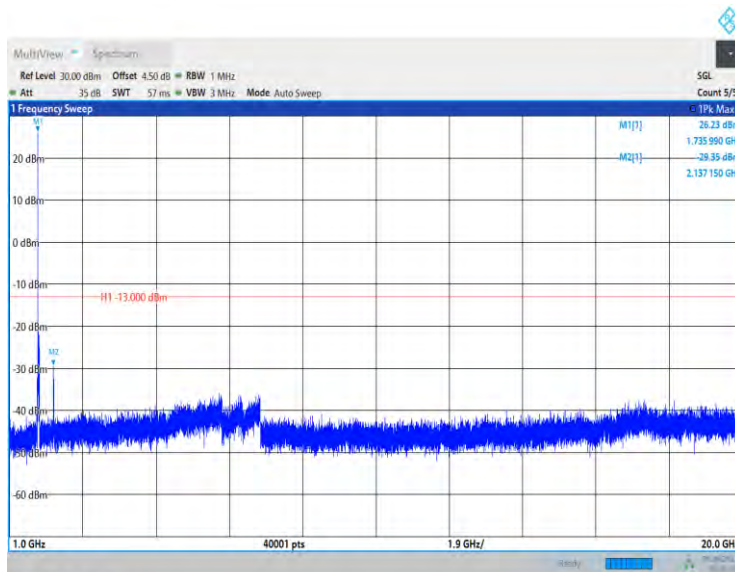
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 4_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	93.03	-45.88	29.43	-18.68	-13.00	5.68	142	345	Horizontal
2	5133.27	82.85	-44.24	32.60	-24.05	-13.00	11.05	261	353	Horizontal
3	6844.36	77.73	-42.50	35.89	-24.14	-13.00	11.14	174	3	Horizontal
4	8555.45	56.66	-39.68	38.11	-40.17	-13.00	27.17	185	49	Horizontal
5	10266.54	48.75	-36.74	38.79	-44.45	-13.00	31.45	265	358	Horizontal
6	11977.63	52.33	-35.32	38.62	-39.62	-13.00	26.62	241	13	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	93.19	-45.88	29.43	-18.52	-13.00	5.52	142	96	Vertical
2	5133.27	77.15	-44.24	32.60	-29.75	-13.00	16.75	263	3	Vertical
3	6844.36	71.50	-42.50	35.89	-30.37	-13.00	17.37	251	23	Vertical
4	8555.45	61.99	-39.68	38.11	-34.84	-13.00	21.84	174	360	Vertical
5	10266.54	51.01	-36.74	38.79	-42.19	-13.00	29.19	185	331	Vertical
6	11977.63	63.02	-35.32	38.62	-28.93	-13.00	15.93	264	343	Vertical



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Test Band = LTE Band 4_ TM1

Test Channel = Mid Channel

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	93.44	-45.82	29.42	-18.22	-13.00	5.22	296	120	Horizontal
2	5170.77	84.88	-44.19	32.60	-21.97	-13.00	8.97	285	354	Horizontal
3	6894.36	78.27	-42.44	35.99	-23.44	-13.00	10.44	241	343	Horizontal
4	8617.95	60.67	-39.74	38.18	-36.15	-13.00	23.15	175	49	Horizontal
5	10341.54	52.16	-36.68	38.88	-40.90	-13.00	27.90	263	360	Horizontal
6	12065.13	57.37	-35.25	38.67	-34.48	-13.00	21.48	254	321	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	92.05	-45.82	29.42	-19.60	-13.00	6.60	142	72	Vertical
2	5170.77	82.49	-44.19	32.60	-24.36	-13.00	11.36	263	26	Vertical
3	6894.36	73.51	-42.44	35.99	-28.20	-13.00	15.20	251	360	Vertical
4	8617.95	65.79	-39.74	38.18	-31.03	-13.00	18.03	142	359	Vertical
5	10341.54	51.00	-36.68	38.88	-42.06	-13.00	29.06	286	301	Vertical
6	12065.13	62.10	-35.25	38.67	-29.75	-13.00	16.75	254	336	Vertical



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Test Band = LTE Band 4_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	91.13	-45.76	29.41	-20.48	-13.00	7.48	215	345	Horizontal
2	5208.27	80.46	-44.14	32.60	-26.34	-13.00	13.34	218	313	Horizontal
3	6944.36	70.91	-42.50	36.09	-30.76	-13.00	17.76	265	336	Horizontal
4	8680.45	62.06	-39.46	38.25	-34.41	-13.00	21.41	241	278	Horizontal
5	10416.54	50.65	-36.46	38.96	-42.11	-13.00	29.11	102	336	Horizontal
6	12152.63	54.15	-35.22	38.75	-37.58	-13.00	24.58	199	263	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	87.55	-45.76	29.41	-24.06	-13.00	11.06	103	244	Vertical
2	5208.27	77.28	-44.14	32.60	-29.52	-13.00	16.52	262	16	Vertical
3	6944.25	72.26	-42.50	36.09	-29.41	-13.00	16.41	241	360	Vertical
4	8680.45	63.54	-39.46	38.25	-32.93	-13.00	19.93	185	3	Vertical
5	10416.54	50.74	-36.46	38.96	-42.02	-13.00	29.02	263	304	Vertical
6	12152.63	59.98	-35.22	38.75	-31.75	-13.00	18.75	241	310	Vertical

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV – 95.26



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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	-9.40	-0.005426	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-31.90	-0.018413	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-10.20	-0.005887	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-21.70	-0.012525	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-4.70	-0.002713	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-8.20	-0.004733	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	5.40	0.003117	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	4.60	0.002655	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-18.90	-0.010909	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-2.60	-0.001501	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-12.20	-0.007042	PASS

---End of Attachment---



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