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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	24.06	23.22	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	24.15	23.31	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.57	22.73	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.68	21.84	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.54	22.7	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.67	22.83	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.55	22.71	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.67	21.83	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.5	22.66	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.64	22.8	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.54	22.7	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.63	21.79	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.17	22.33	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.98	22.14	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.72	21.88	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.76	20.92	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.77	21.93	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.88	22.04	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.79	21.95	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.77	20.93	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.7	21.86	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.92	22.08	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.82	21.98	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.74	20.9	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	20.56	19.72	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.24	20.4	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.11	20.27	30	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	21.03	20.19	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.1	20.26	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.19	20.35	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.09	20.25	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	21.03	20.19	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.09	20.25	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.18	20.34	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.05	20.21	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	21.02	20.18	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	24.19	23.35	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.68	22.84	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.7	22.86	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.73	21.89	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.66	22.82	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.67	22.83	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.68	22.84	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.72	21.88	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.6	22.76	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.64	22.8	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.65	22.81	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.7	21.86	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.94	22.1	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.8	21.96	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.87	22.03	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.76	20.92	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.92	22.08	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.81	21.97	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.83	21.99	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.76	20.92	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.84	22	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.91	22.07	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.88	22.04	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.73	20.89	30	PASS



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Band4	3MHz	64QAM	19965	1RB#0	21.21	20.37	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.11	20.27	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.2	20.36	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	21.07	20.23	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.17	20.33	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.09	20.25	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.13	20.29	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	21.05	20.21	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.15	20.31	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.09	20.25	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.2	20.36	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	21.02	20.18	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	24.08	23.24	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.83	22.99	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.59	22.75	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.75	21.91	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.58	22.74	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.83	22.99	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.57	22.73	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.75	21.91	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.55	22.71	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.84	23	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.56	22.72	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.74	21.9	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.98	22.14	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.01	22.17	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.81	21.97	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.77	20.93	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.74	21.9	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	23	22.16	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.72	21.88	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.76	20.92	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.68	21.84	30	PASS



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Band4	5MHz	16QAM	20375	1RB#12	23.02	22.18	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.86	22.02	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.75	20.91	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.15	20.31	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.38	20.54	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.11	20.27	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	21.09	20.25	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.13	20.29	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.36	20.52	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.13	20.29	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	21.07	20.23	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.07	20.23	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.31	20.47	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.1	20.26	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	21.05	20.21	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	24.13	23.29	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.81	22.97	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.66	22.82	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.8	21.96	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.65	22.81	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.78	22.94	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.67	22.83	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.8	21.96	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.59	22.75	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.75	22.91	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.63	22.79	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.75	21.91	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.95	22.11	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.04	22.2	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.87	22.03	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.81	20.97	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.91	22.07	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.94	22.1	30	PASS



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Band4	10MHz	16QAM	20175	50RB#0	21.8	20.96	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.77	21.93	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.99	22.15	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.87	22.03	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.77	20.93	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	20.32	19.48	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.33	20.49	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.13	20.29	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	21.11	20.27	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.15	20.31	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.18	20.34	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.2	20.36	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	21.1	20.26	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.09	20.25	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.24	20.4	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.11	20.27	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	21.04	20.2	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	24.05	23.21	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.72	22.88	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.59	22.75	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.77	21.93	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.56	22.72	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.72	22.88	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.6	22.76	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.76	21.92	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.54	22.7	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.68	22.84	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.58	22.74	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.72	21.88	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.2	22.36	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.89	22.05	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.81	21.97	30	PASS



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Band4	15MHz	16QAM	20175	1RB#0	22.83	21.99	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.88	22.04	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.73	21.89	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.77	20.93	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.68	21.84	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.89	22.05	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.88	22.04	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.74	20.9	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.02	20.18	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.17	20.33	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.1	20.26	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	21.11	20.27	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.1	20.26	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.26	20.42	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.08	20.24	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	21.08	20.24	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.02	20.18	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.19	20.35	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.13	20.29	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	21.05	20.21	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.83	22.99	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.76	22.92	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.43	22.59	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.72	21.88	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.34	22.5	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.78	22.94	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.44	22.6	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.26	20.42	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	20.86	20.02	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	20.75	19.91	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.42	22.58	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	20.71	19.87	30	PASS



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Band4	20MHz	16QAM	20050	1RB#0	22.63	21.79	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.04	22.2	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.66	21.82	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.73	20.89	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.48	21.64	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.04	22.2	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.34	20.5	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.21	20.37	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	20.77	19.93	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.04	20.2	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	20.78	19.94	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.71	19.87	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.86	20.02	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.25	20.41	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.01	20.17	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	21.08	20.24	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.79	19.95	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.27	20.43	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.99	20.15	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	21.05	20.21	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	20.88	20.04	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.17	20.33	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.96	20.12	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	21.03	20.19	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	5.08	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.04	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.20	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.86	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.90	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.00	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.22	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.20	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.22	13	PASS



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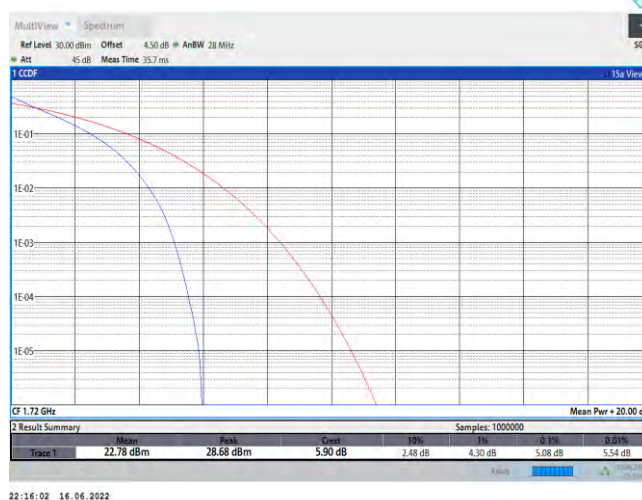
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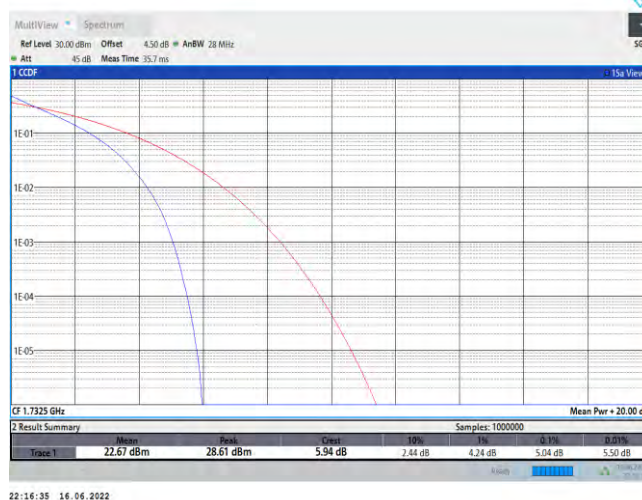
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Test Graphs

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



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



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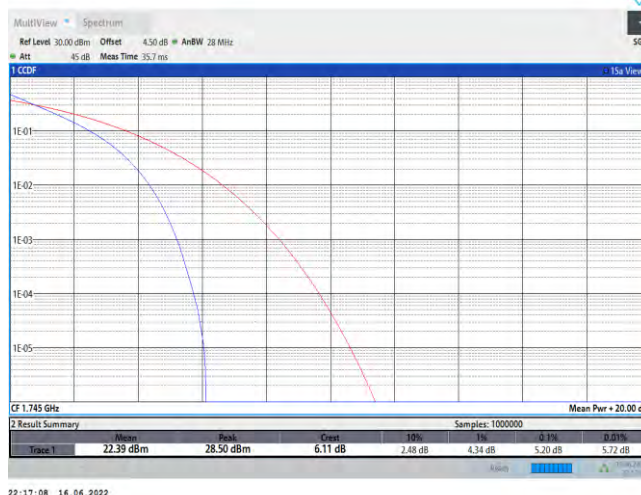
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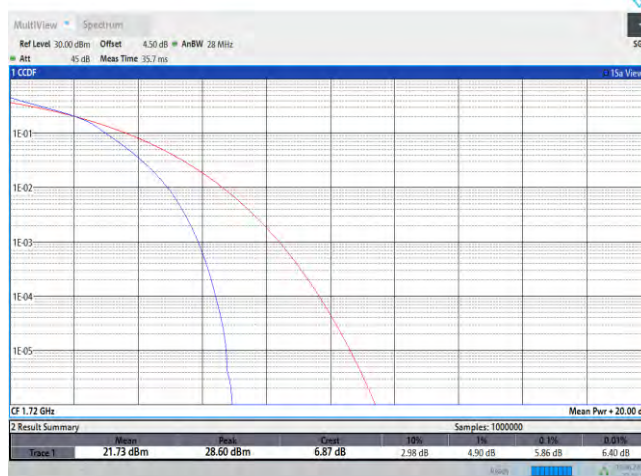
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Band4-20MHz-QPSK-20300-100RB#0



22:17:08 16.06.2022

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



22:16:19 16.06.2022



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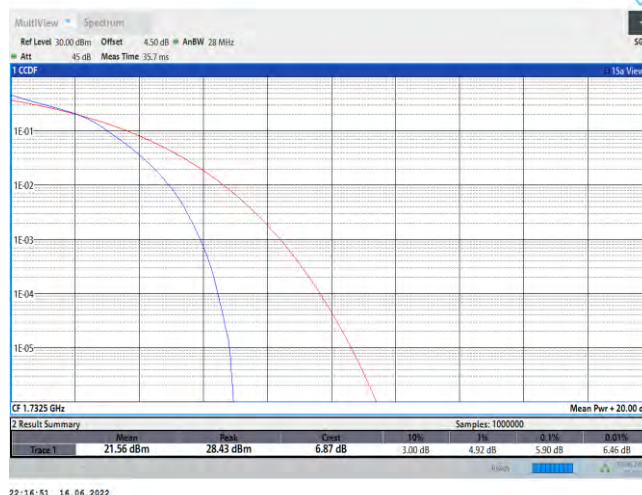
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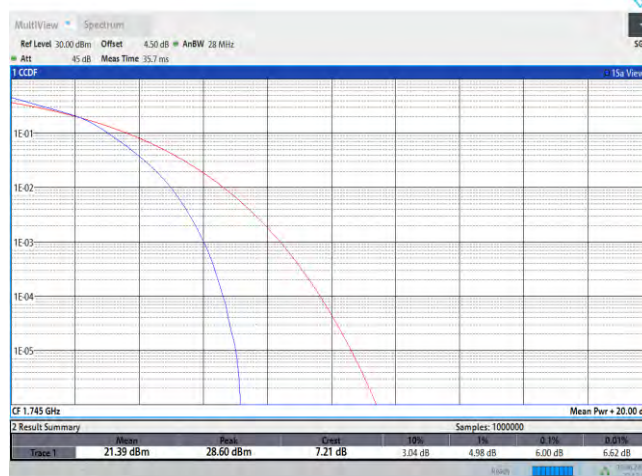
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Band4-20MHz-16QAM-20175-100RB#0



22:16:51 16.06.2022

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



22:17:24 16.06.2022



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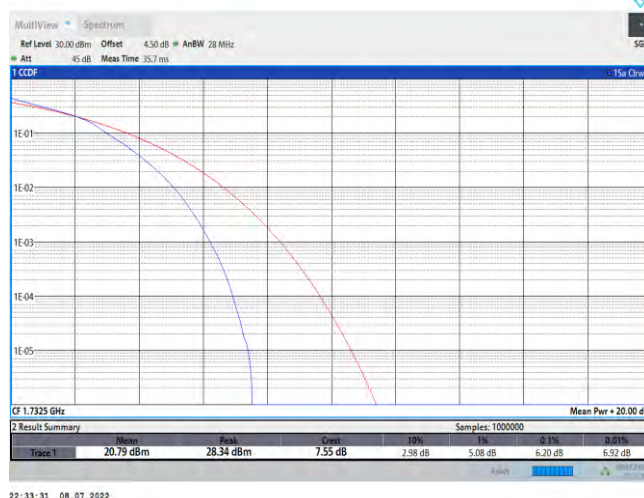
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Band4-20MHz-64QAM-20050-100RB#0



22:33:15 08.07.2022

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



22:33:31 08.07.2022



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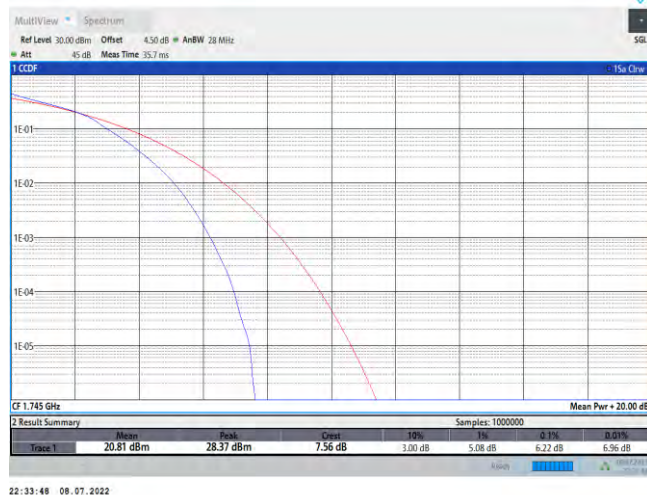
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Band4-20MHz-64QAM-20300-100RB#0



22:33:48 09.07.2022



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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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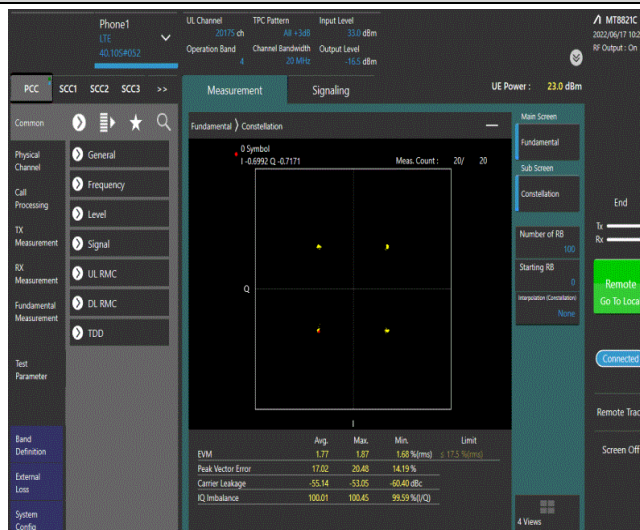
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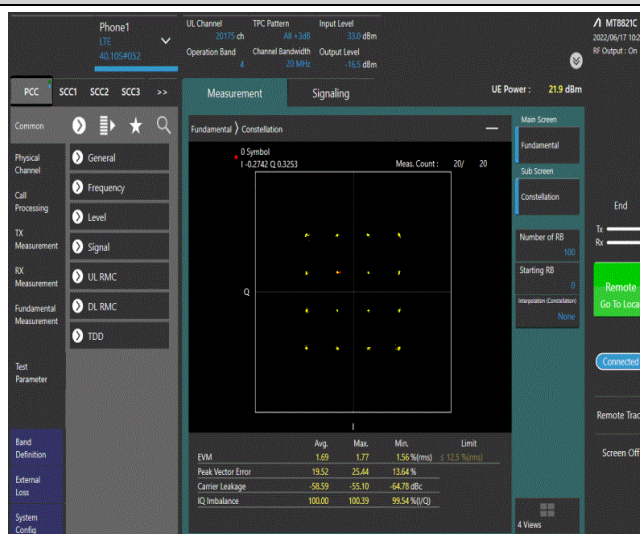
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Test Graphs

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



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



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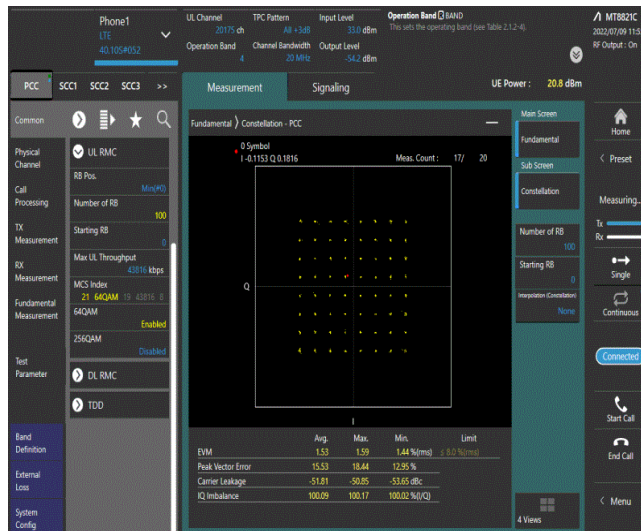
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Band4-20MHz-64QAM-20175-100RB#0



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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	1.086	1.28	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.085	1.28	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.084	1.28	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.102	1.34	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.048	1.25	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.091	1.30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.092	1.30	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.686	2.92	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.686	2.90	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.683	2.89	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.676	2.91	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	2.89	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.679	2.91	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.684	2.90	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.683	2.90	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.681	2.90	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.474	5.02	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.477	5.04	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.475	5.04	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.475	5.04	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.474	5.04	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.478	5.06	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.475	5.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.478	5.14	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.479	5.08	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.959	9.90	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.941	9.96	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.947	9.82	PASS



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Band4	10MHz	16QAM	20000	50RB#0	8.936	9.82	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.927	9.84	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.922	9.82	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.948	9.88	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.938	9.86	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.94	9.98	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.508	15.15	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.506	15.06	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.5	15.03	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.501	15.93	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.47	15.24	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.468	15.21	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.484	15.18	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.496	14.97	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.506	16.41	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.961	19.84	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.945	24.24	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.954	19.60	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.916	19.68	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.905	19.68	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.916	19.68	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.931	19.64	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.898	19.68	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.919	19.60	PASS



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Test Graphs

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



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



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21:47:24 16.06.2022

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



21:46:32 16.06.2022



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



22:26:07 08.07.2022



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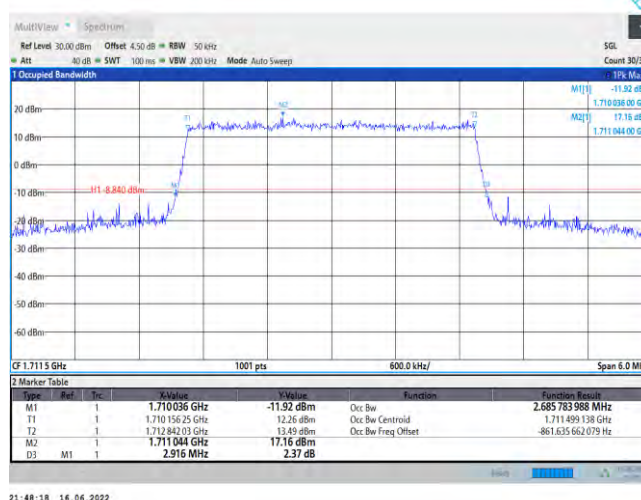
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Band4-3MHz-QPSK-19965-15RB#0



21:48:18 16.06.2022



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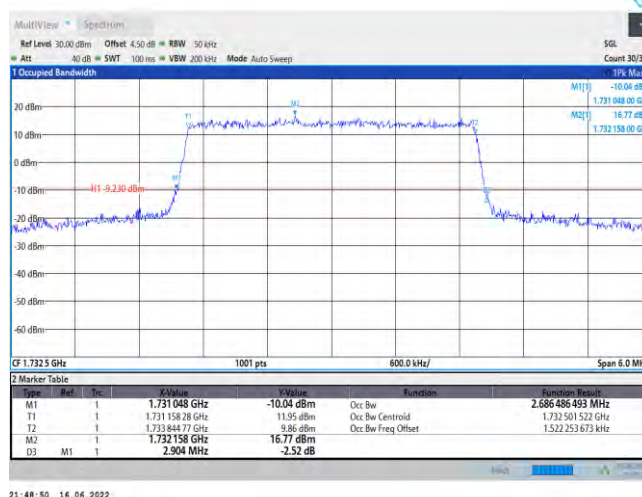
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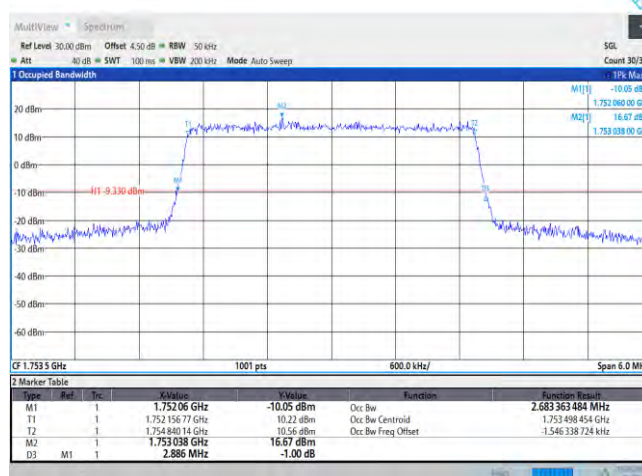
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Band4-3MHz-QPSK-20385-15RB#0



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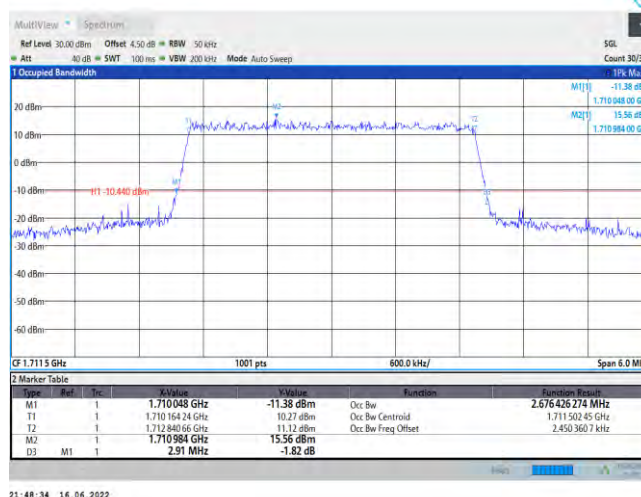
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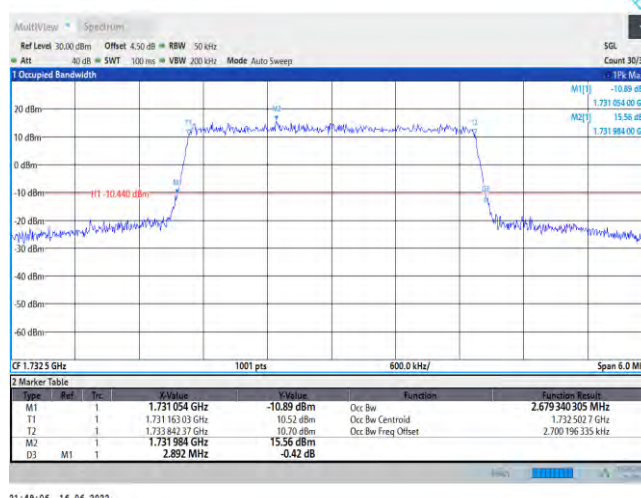
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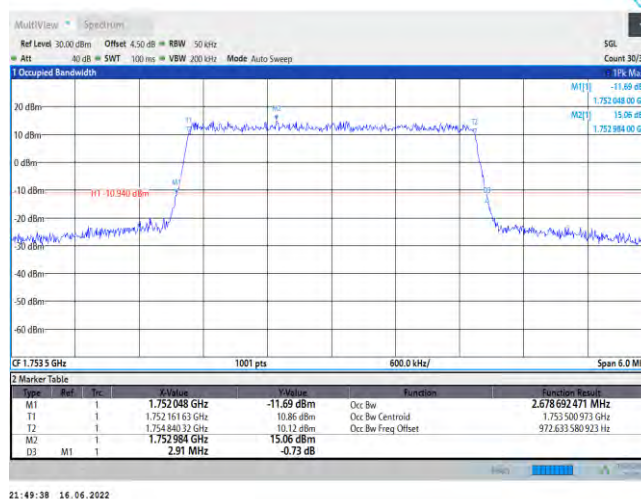
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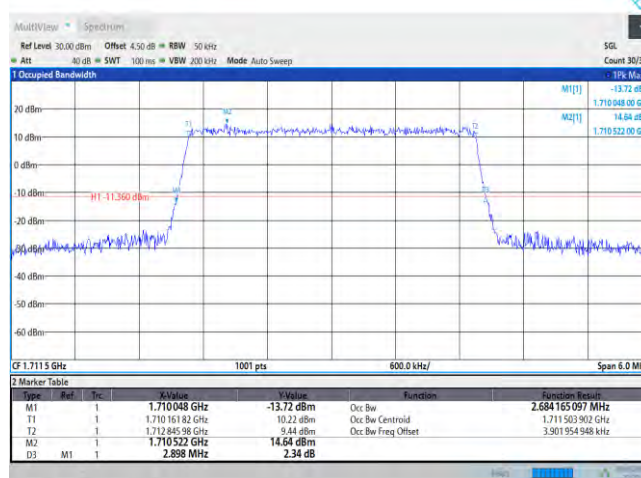
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Band4-3MHz-64QAM-19965-15RB#0



22:27:02 08.07.2022



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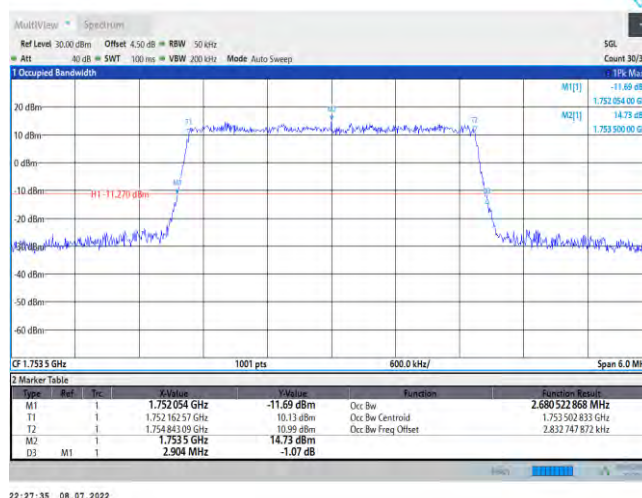
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Band4-3MHz-64QAM-20175-15RB#0



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



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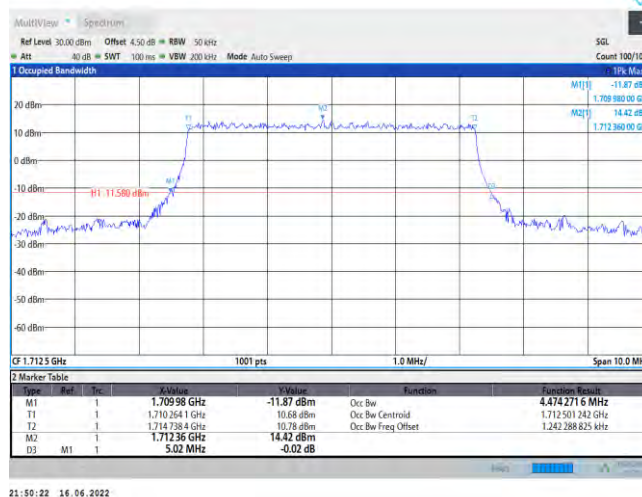
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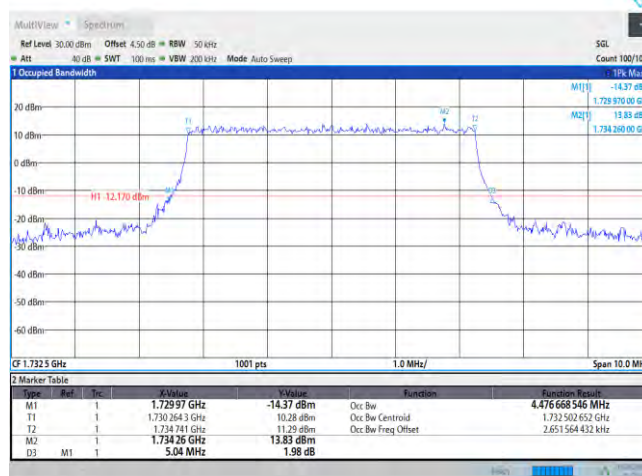
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Band4-5MHz-QPSK-19975-25RB#0



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



21:51:08 16.06.2022



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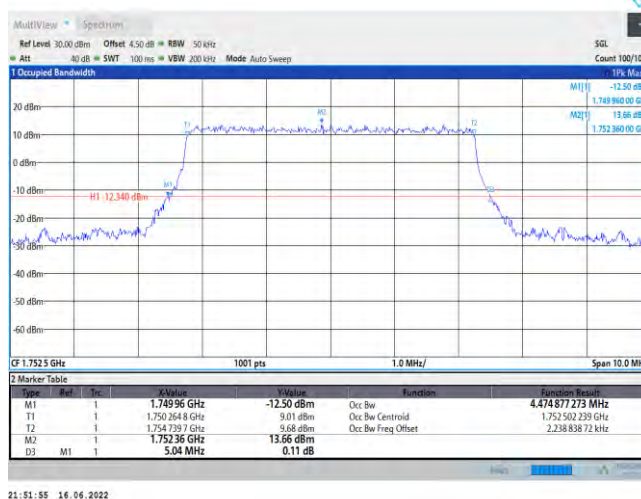
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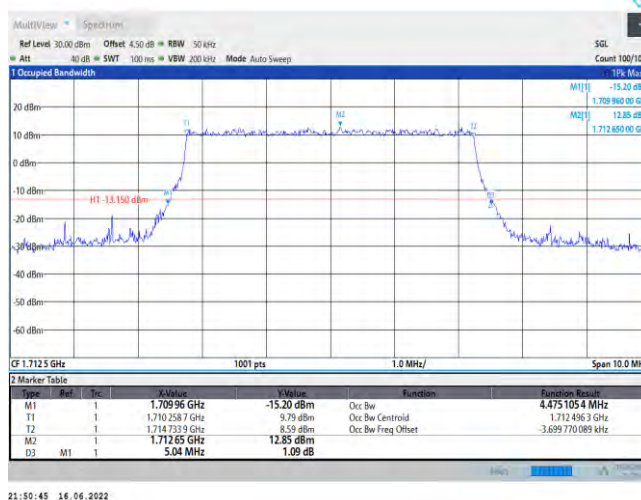
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Band4-5MHz-16QAM-19975-25RB#0



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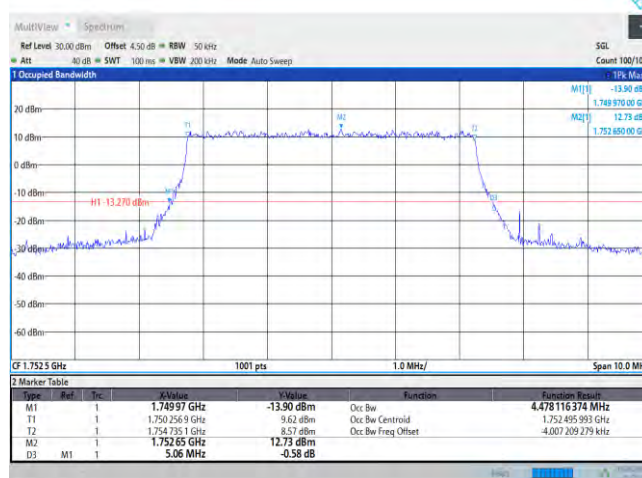
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Band4-5MHz-16QAM-20375-25RB#0



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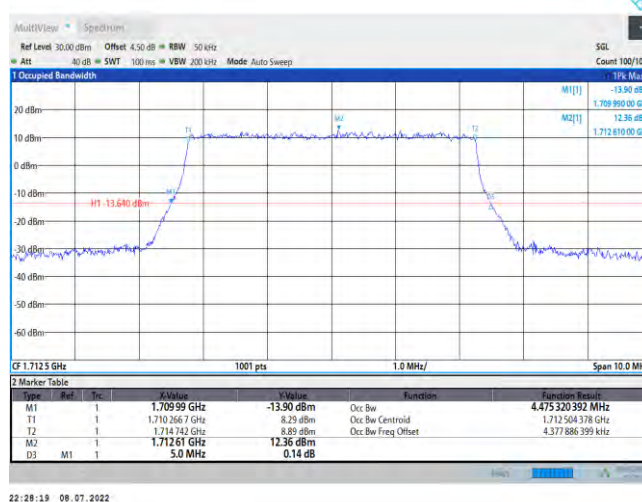
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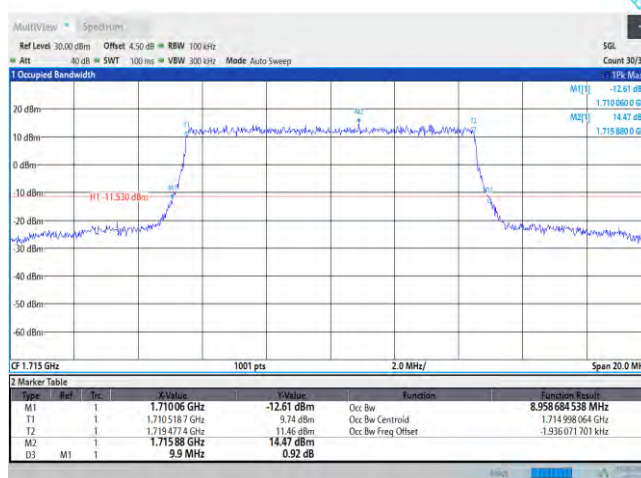
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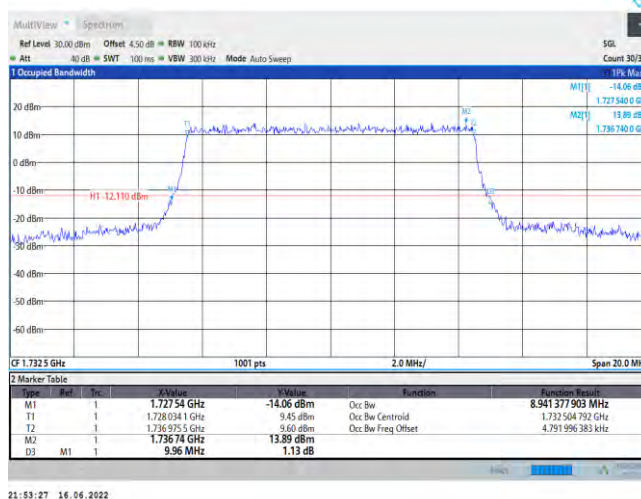
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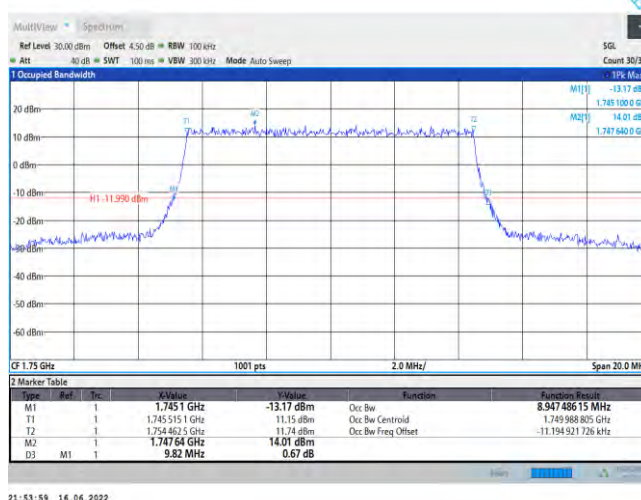
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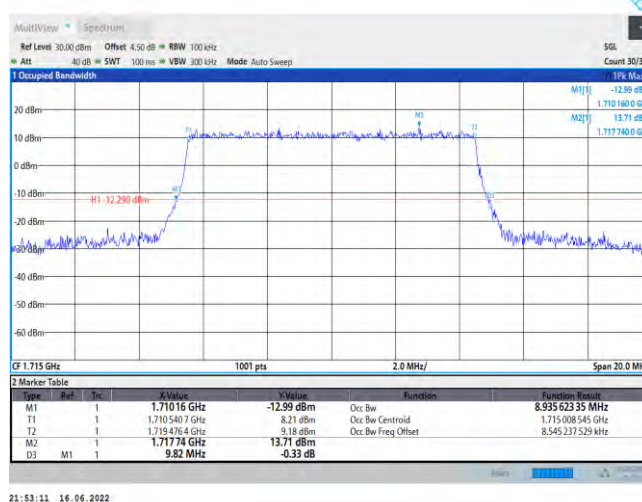
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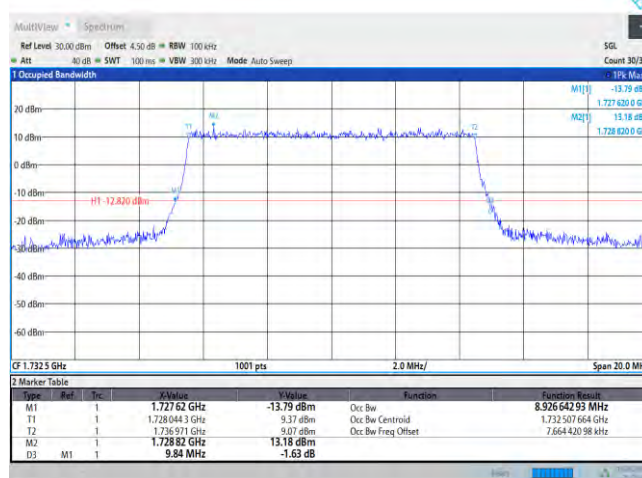
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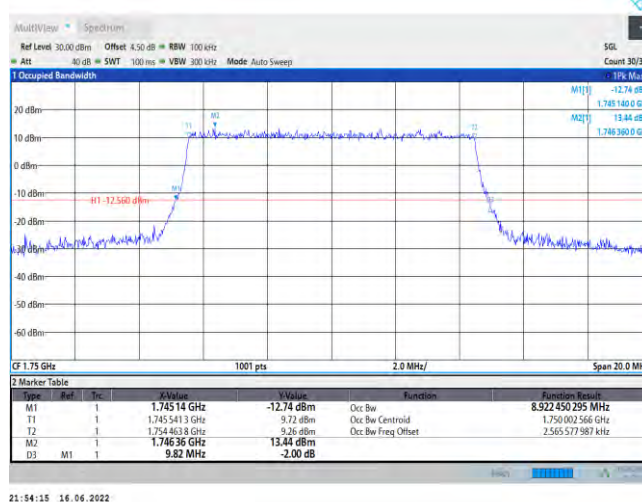
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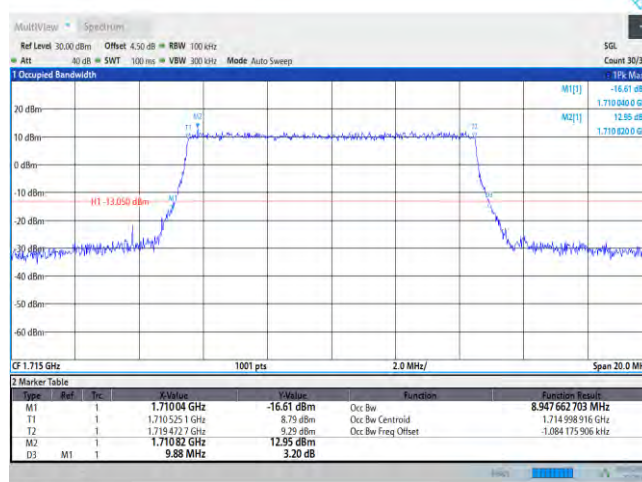
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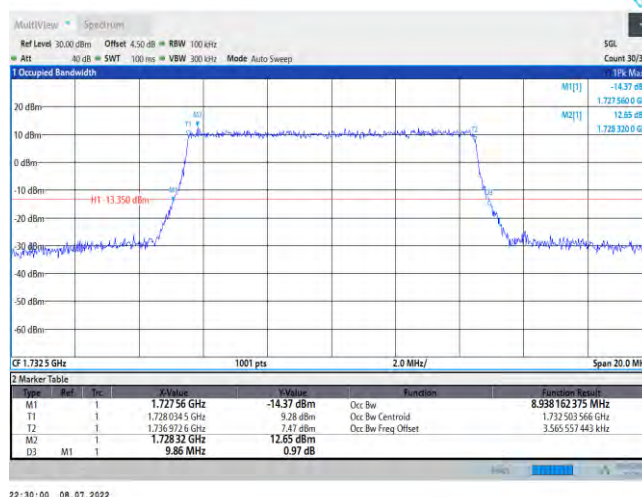
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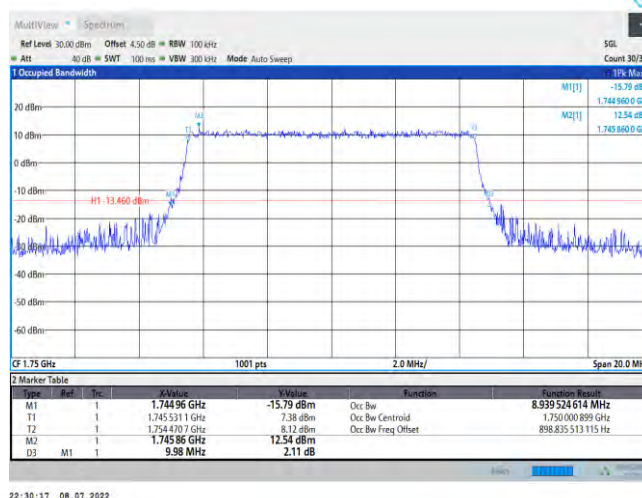
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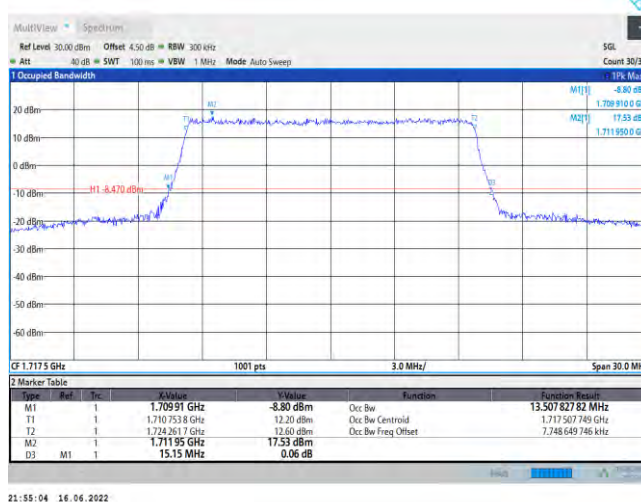
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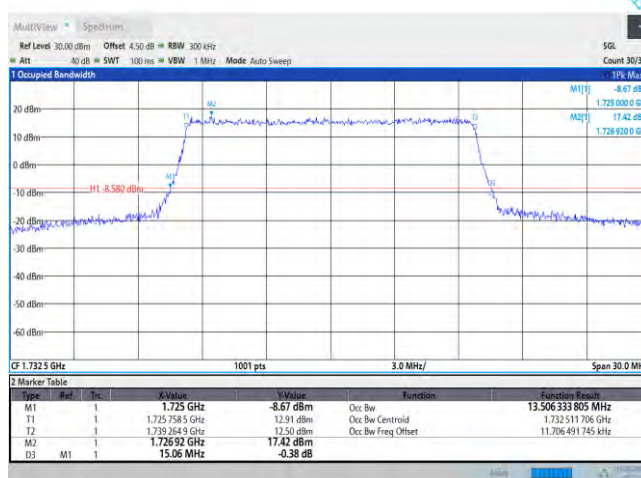
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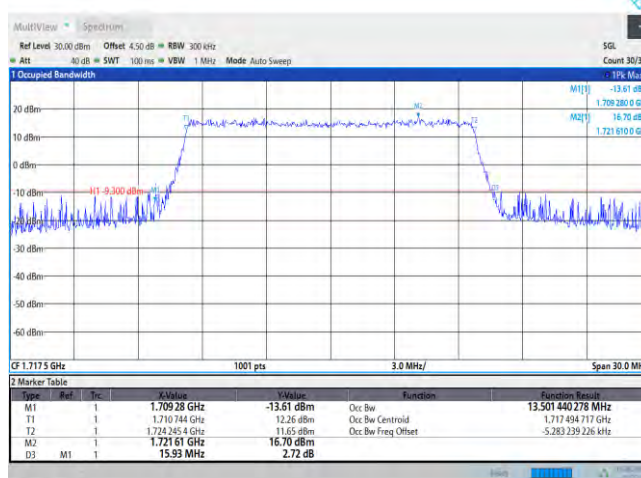
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Band4-15MHz-QPSK-20325-75RB#0



21:56:09 16.06.2022

Band4-15MHz-16QAM-20025-75RB#0



21:55:20 16.06.2022



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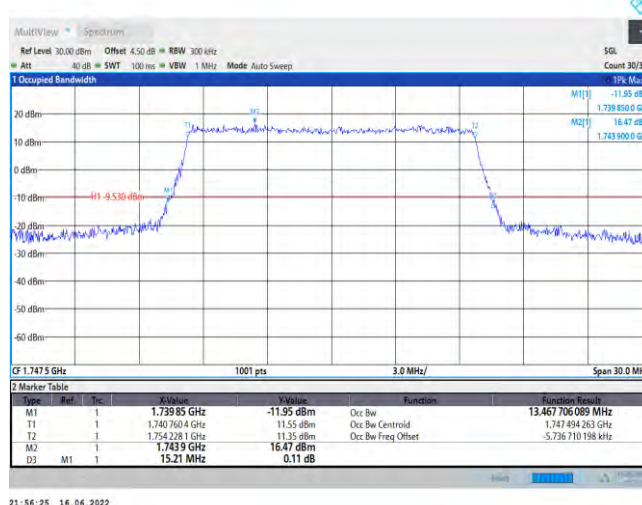
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Band4-15MHz-16QAM-20325-75RB#0



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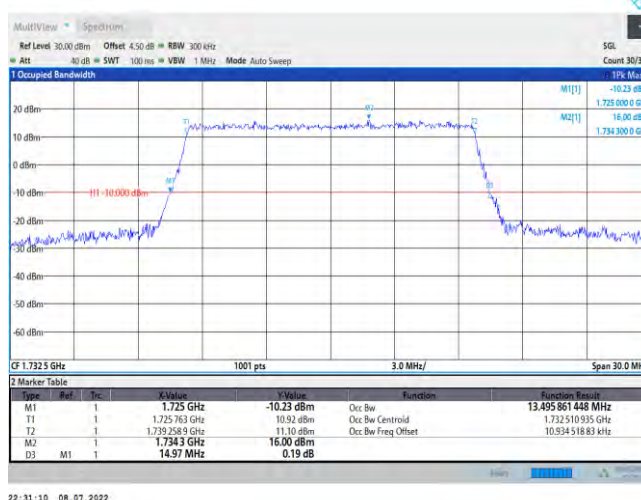
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22:30:54 08.07.2022

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



22:31:10 08.07.2022



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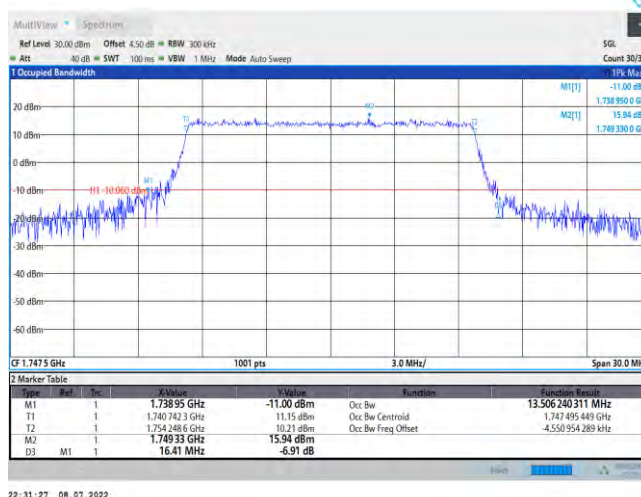
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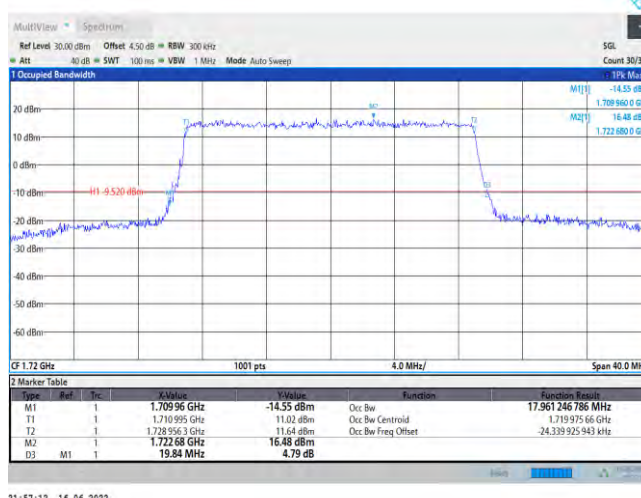
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22:31:27 09.07.2022

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



21:57:12 16.06.2022



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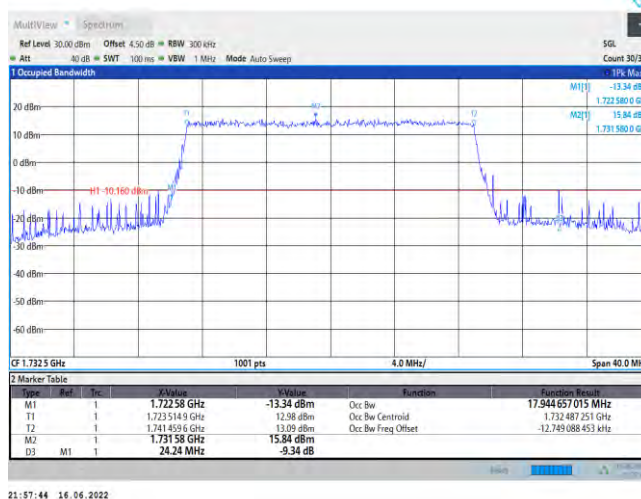
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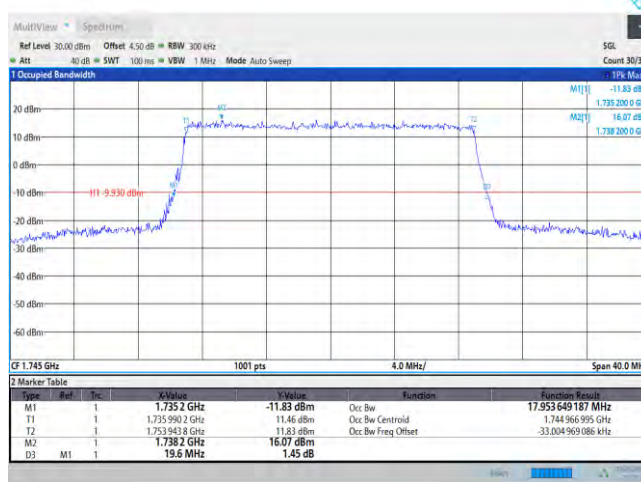
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Band4-20MHz-QPSK-20300-100RB#0



21:58:16 16.06.2022



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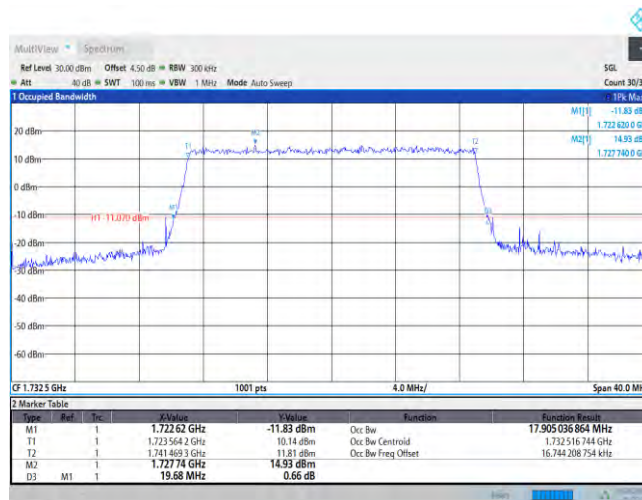
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21:57:28 16.06.2022

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



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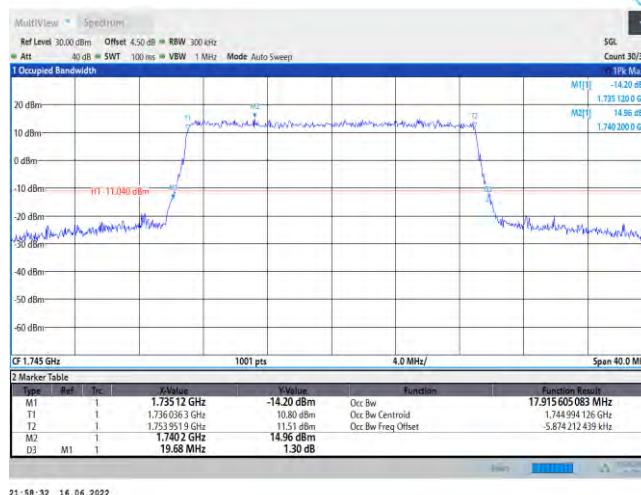
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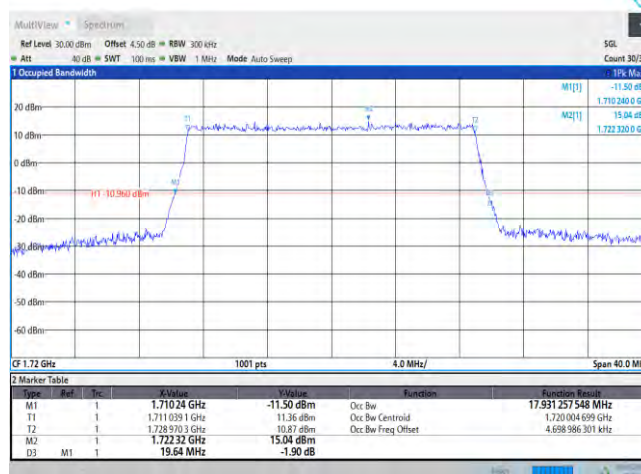
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21:58:32 16.06.2022

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



22:32:04 08.07.2022



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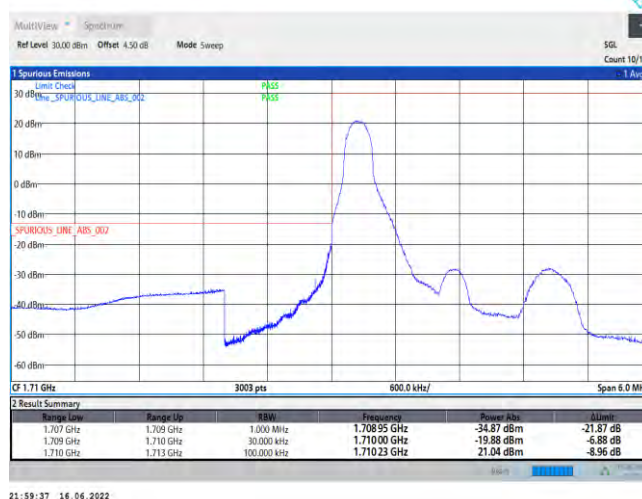
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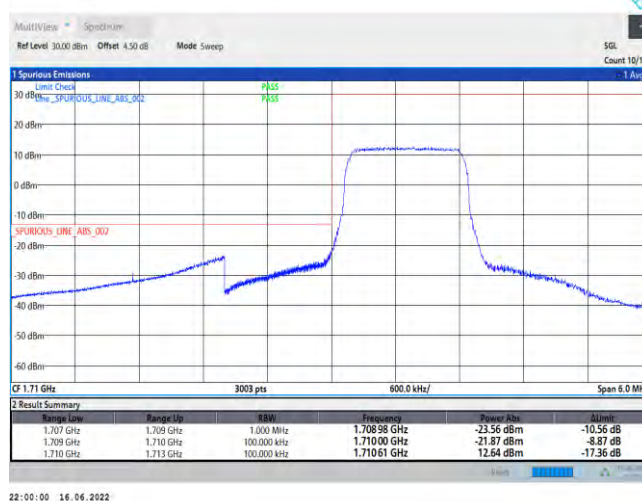
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Band4-1.4MHz-QPSK-19957-1RB#0



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



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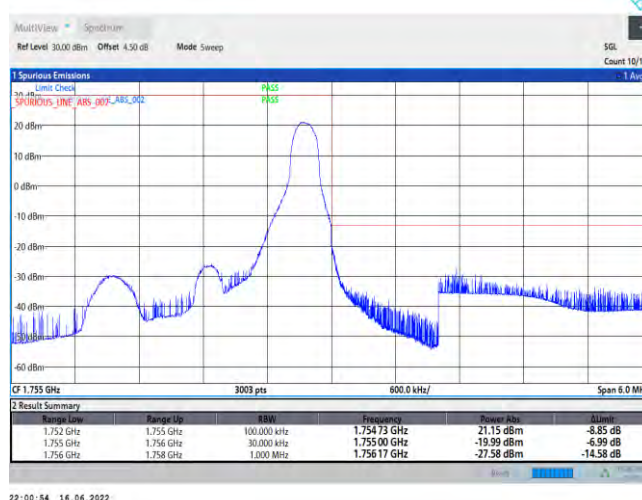
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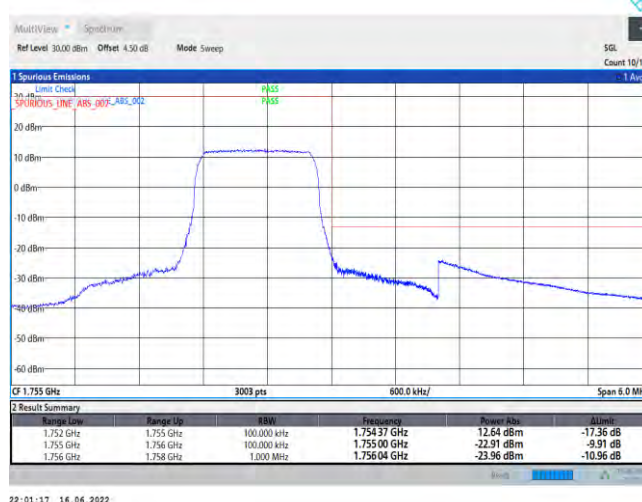
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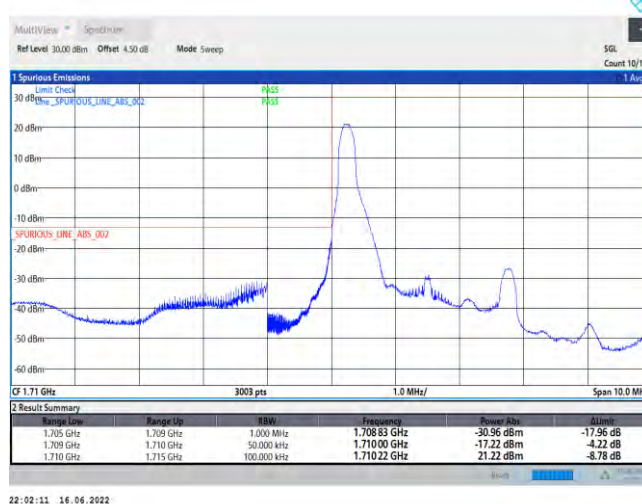
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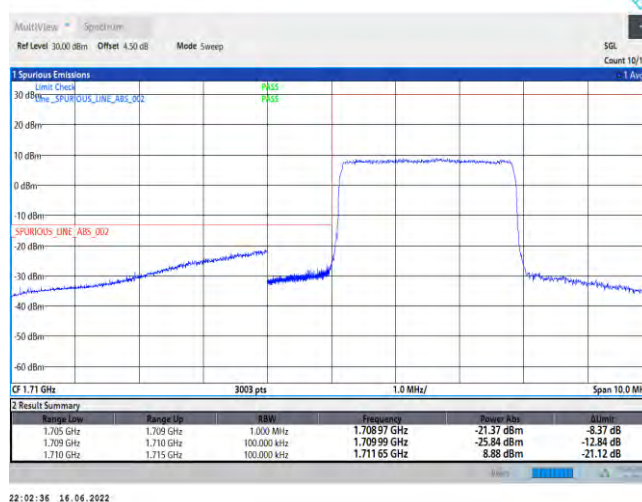
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Band4-3MHz-QPSK-19965-15RB#0



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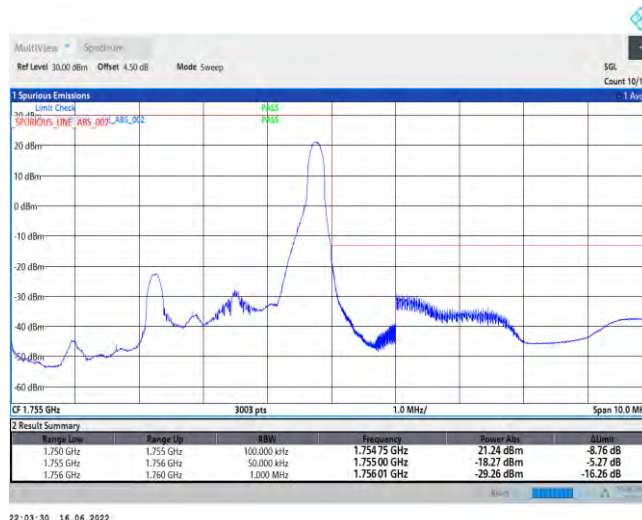
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Band4-5MHz-QPSK-19975-1RB#0



Band4-5MHz-QPSK-19975-25RB#0



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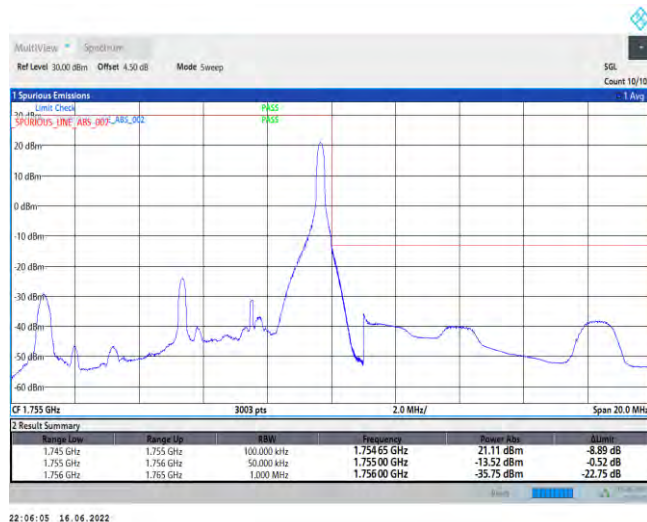
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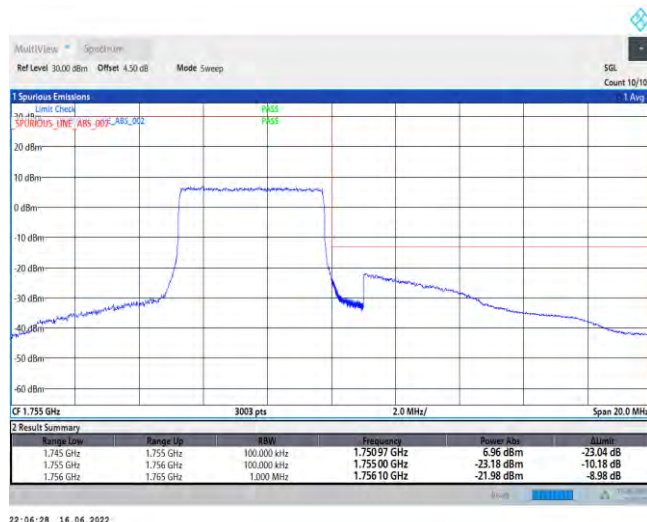
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Band4-5MHz-QPSK-20375-1RB#24



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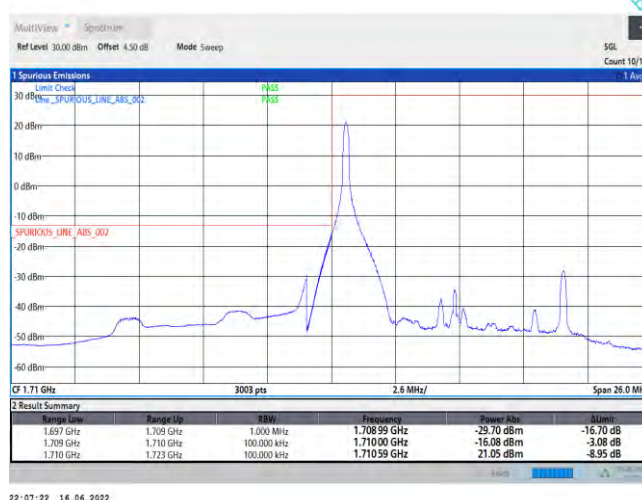
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Band4-10MHz-QPSK-20000-1RB#0



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



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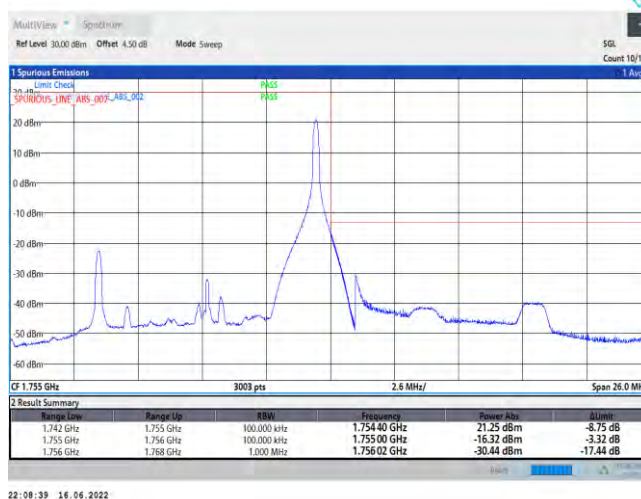
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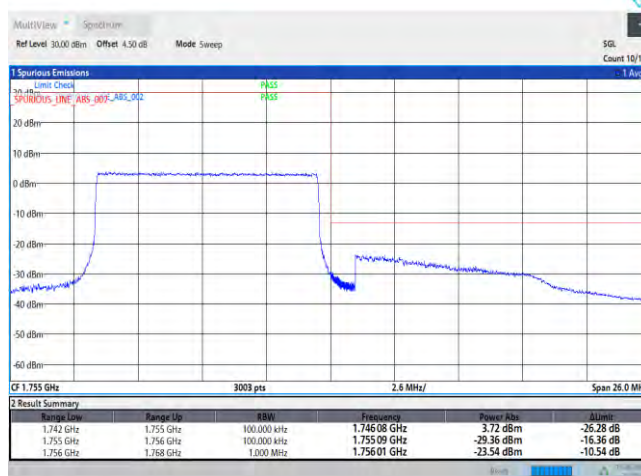
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Band4-10MHz-QPSK-20350-1RB#49



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



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



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



22:10:20 16.06.2022



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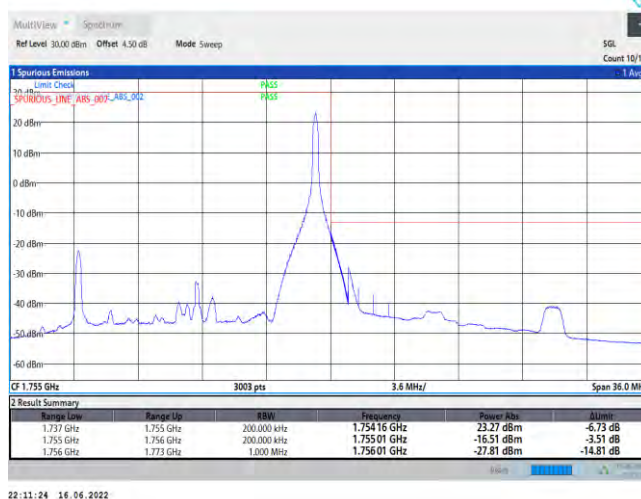
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Band4-15MHz-QPSK-20325-1RB#74



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



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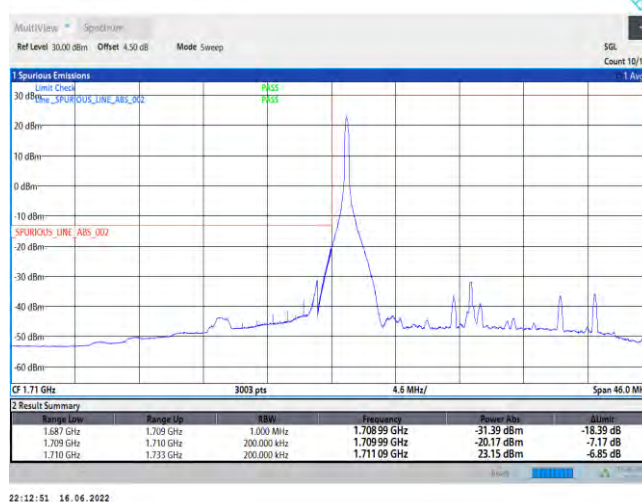
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Band4-20MHz-QPSK-20050-100RB#0



22:13:14 16.06.2022



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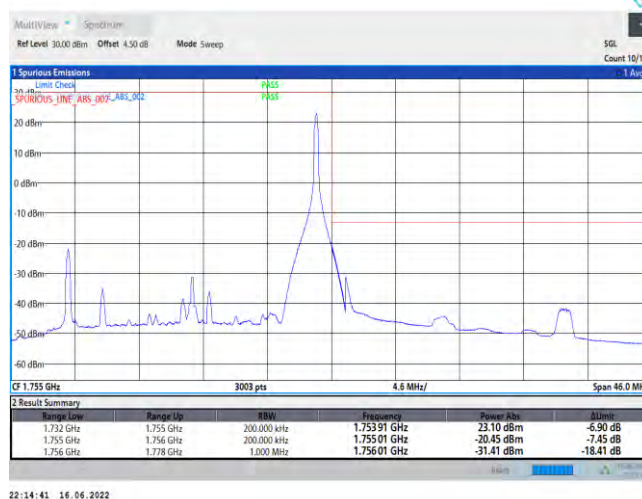
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Band4-20MHz-QPSK-20300-1RB#99



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



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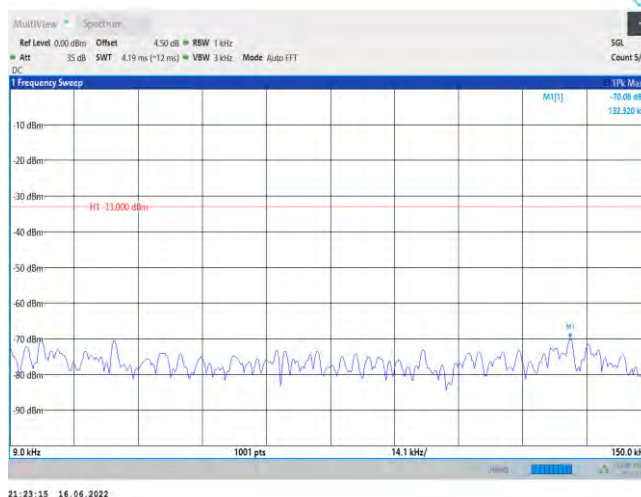
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Conducted Spurious Emission

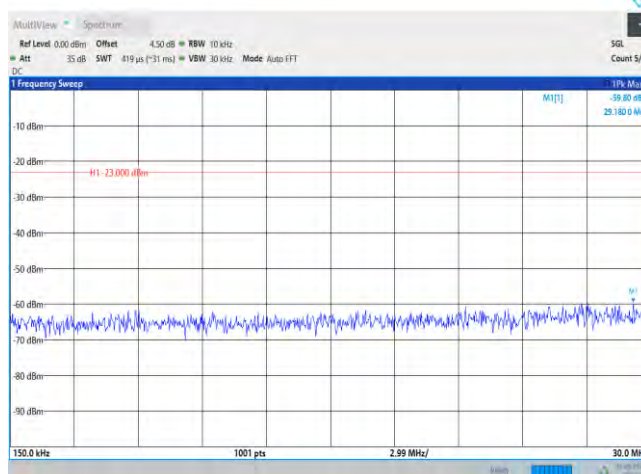
Test Graphs

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



21:23:15 16.06.2022

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



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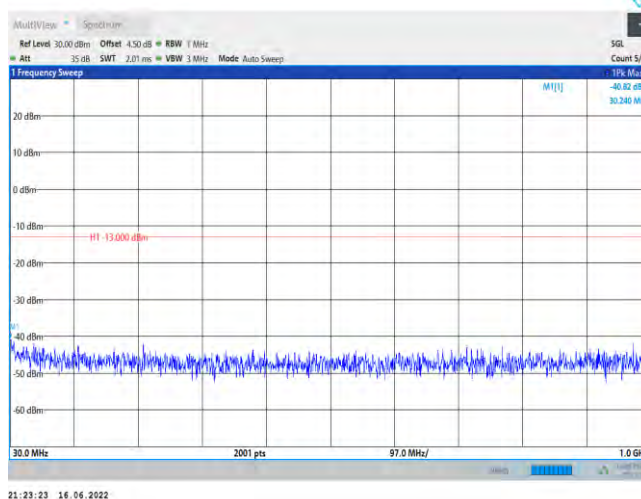
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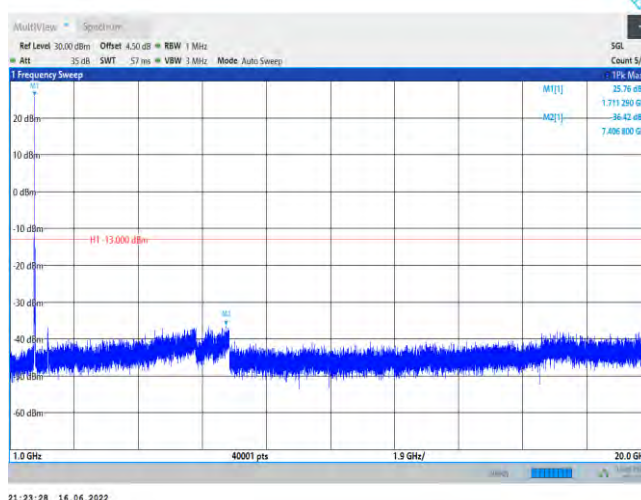
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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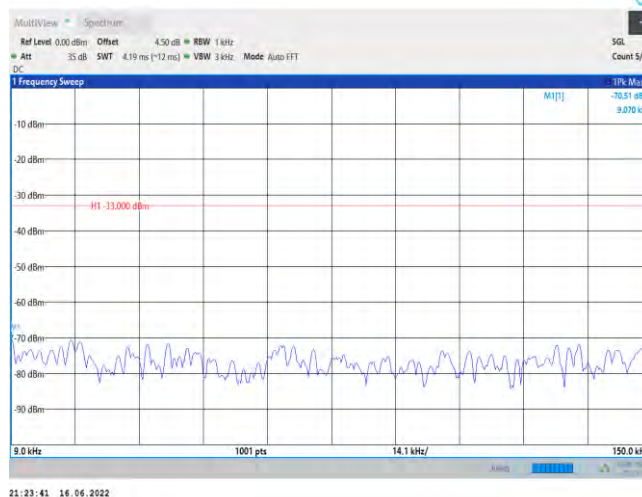
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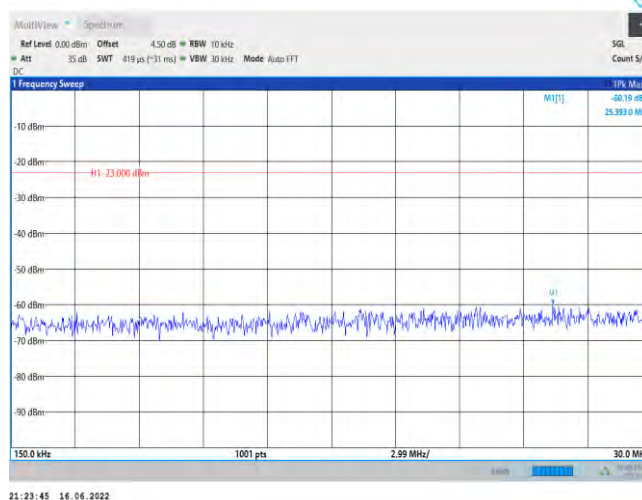
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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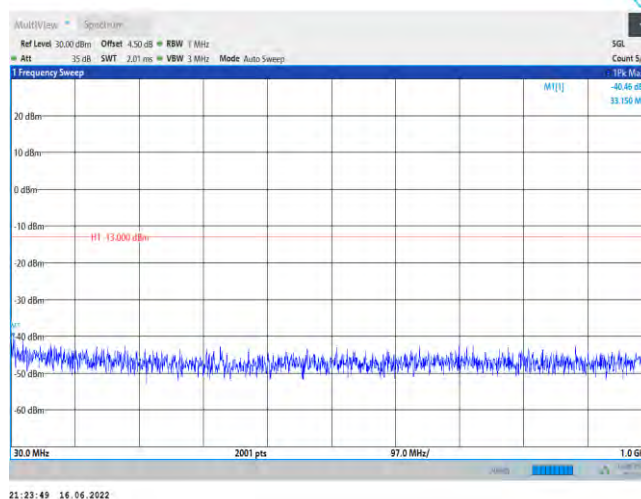
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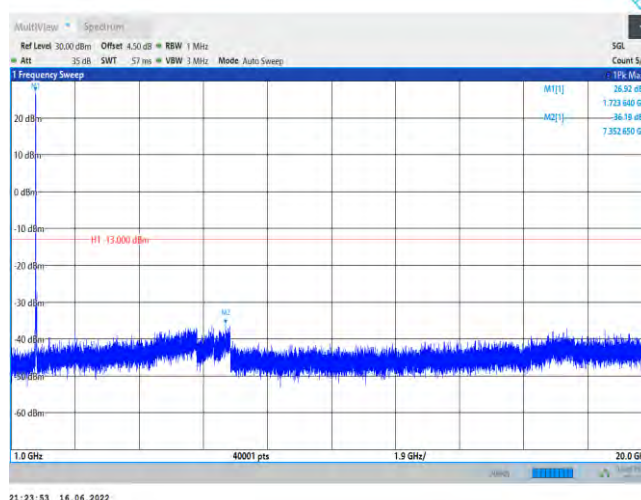
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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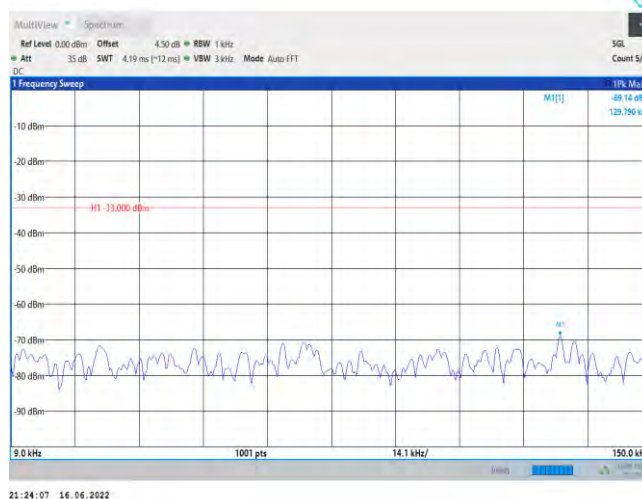
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Report No.: SEWM2206000075RG01

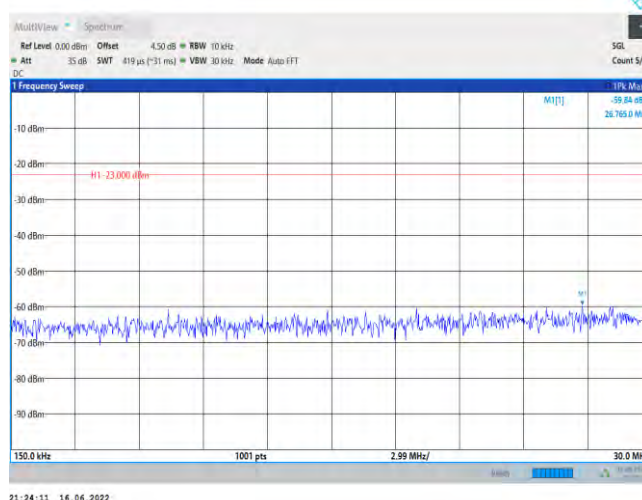
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



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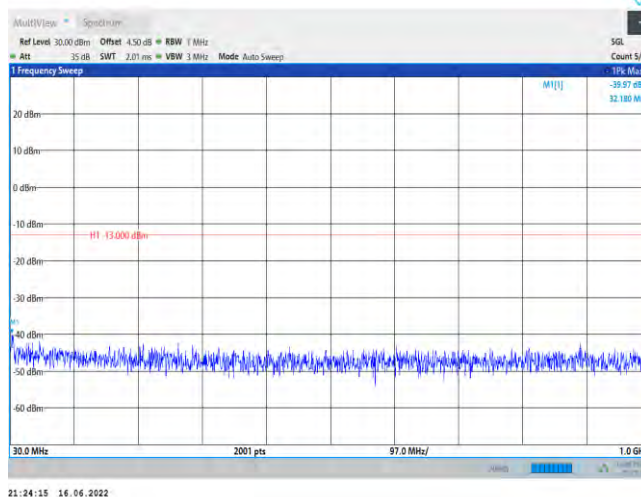
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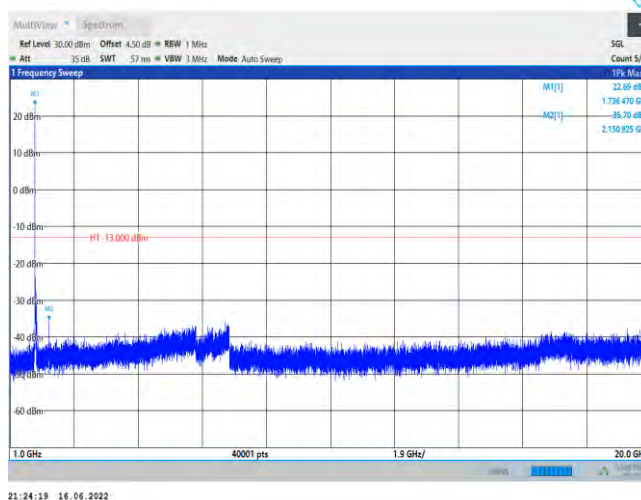
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 4_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	57.03	-112.09	-55.06	-13.00	42.06	222	232	Horizontal
2	5133	57.15	-107.65	-50.50	-13.00	37.50	235	232	Horizontal
3	6844.3600	48.37	-103.51	-55.14	-13.00	42.14	188	242	Horizontal
4	8555.4500	46.10	-99.06	-52.96	-13.00	39.96	269	2	Horizontal
5	10266.5400	43.71	-95.66	-51.95	-13.00	38.95	194	93	Horizontal
6	11977.6300	41.81	-93.83	-52.02	-13.00	39.02	124	1	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	54.96	-112.09	-57.13	-13.00	44.13	148	312	Vertical
2	5133.2700	50.94	-107.65	-56.71	-13.00	43.71	172	267	Vertical
3	6844.3600	48.33	-103.51	-55.18	-13.00	42.18	263	151	Vertical
4	8555.4500	46.58	-99.06	-52.48	-13.00	39.48	230	163	Vertical
5	10266.5400	44.93	-95.66	-50.73	-13.00	37.73	147	323	Vertical
6	11977.6300	41.65	-93.83	-52.18	-13.00	39.18	125	243	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	55.54	-112.06	-56.52	-13.00	43.52	193	232	Horizontal
2	5170.7700	59.12	-107.59	-48.47	-13.00	35.47	214	232	Horizontal
3	6894.3600	48.45	-103.41	-54.96	-13.00	41.96	235	2	Horizontal
4	8617.9500	46.10	-98.88	-52.78	-13.00	39.78	164	94	Horizontal
5	10341.5400	43.97	-95.47	-51.50	-13.00	38.50	175	152	Horizontal
6	12065.1300	42.97	-93.68	-50.71	-13.00	37.71	190	344	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	54.62	-112.06	-57.44	-13.00	44.44	221	311	Vertical
2	5170.7700	52.04	-107.59	-55.55	-13.00	42.55	301	185	Vertical
3	6894.3600	49.42	-103.41	-53.99	-13.00	40.99	160	140	Vertical
4	8617.9500	47.01	-98.88	-51.87	-13.00	38.87	142	324	Vertical
5	10341.5400	44.49	-95.47	-50.98	-13.00	37.98	168	265	Vertical
6	12065.1300	41.61	-93.68	-52.07	-13.00	39.07	190	265	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	56.30	-112.03	-55.73	-13.00	42.73	217	266	Horizontal
2	5208.2700	57.13	-107.54	-50.41	-13.00	37.41	184	242	Horizontal
3	6944.3600	48.14	-103.10	-54.96	-13.00	41.96	125	46	Horizontal
4	8680.4500	48.01	-99.00	-50.99	-13.00	37.99	255	346	Horizontal
5	10416.5400	43.40	-95.36	-51.96	-13.00	38.96	258	46	Horizontal
6	12152.6300	42.98	-93.59	-50.61	-13.00	37.61	169	221	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	53.81	-112.03	-58.22	-13.00	45.22	233	302	Vertical
2	5208.2700	49.77	-107.54	-57.77	-13.00	44.77	142	233	Vertical
3	6944.3600	48.40	-103.10	-54.70	-13.00	41.70	160	163	Vertical
4	8680.4500	47.37	-99.00	-51.63	-13.00	38.63	184	141	Vertical
5	10416.5400	41.62	-95.36	-53.74	-13.00	40.74	172	267	Vertical
6	12152.6300	42.06	-93.59	-51.53	-13.00	38.53	199	356	Vertical



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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	-13.70	-0.007908	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	4.80	0.002771	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-3.70	-0.002136	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	6.80	0.003925	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-20.50	-0.011833	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-16.50	-0.009524	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-12.60	-0.007273	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-18.40	-0.010620	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.50	0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	10.30	0.005945	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-19.00	-0.010967	PASS

The End



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