

Report No.: SEWM2208000146RG04

Rev.: 01

Page: 1 of 68

Appendix B.4

LTE Band 4



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 2 of 68

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	23.14	23.74	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.26	23.86	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.05	23.65	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.01	22.61	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.95	23.55	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.25	23.85	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23	23.6	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.27	22.87	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.11	23.71	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.29	23.89	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.16	23.76	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.3	22.9	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.32	22.92	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.45	23.05	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.11	22.71	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.12	21.72	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.44	23.04	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.26	22.86	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.06	22.66	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.42	22.02	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.34	22.94	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.42	23.02	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.29	22.89	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.36	21.96	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.28	21.88	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.37	21.97	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.15	21.75	30	PASS



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 3 of 68

Band4	1.4MHz	64QAM	19957	6RB#0	20.27	20.87	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.44	22.04	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.52	22.12	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.42	22.02	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.38	20.98	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.31	21.91	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.41	22.01	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.32	21.92	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.28	20.88	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.12	23.72	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.15	23.75	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.69	23.29	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.77	22.37	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.04	23.64	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.82	23.42	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.83	23.43	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.23	22.83	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.17	23.77	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.15	23.75	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.14	23.74	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.2	22.8	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.26	22.86	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.25	22.85	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.91	22.51	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.88	21.48	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.08	22.68	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.05	22.65	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.08	22.68	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.23	21.83	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.35	22.95	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.38	22.98	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.37	22.97	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.18	21.78	30	PASS



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 4 of 68

Band4	3MHz	64QAM	19965	1RB#0	21.26	21.86	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.28	21.88	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	20.88	21.48	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.19	20.79	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.3	21.9	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.15	21.75	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.36	21.96	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.34	20.94	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.27	21.87	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.31	21.91	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.29	21.89	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.21	20.81	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.07	23.67	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.29	23.89	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.92	23.52	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.79	22.39	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.21	23.81	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.99	23.59	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.86	23.46	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.04	22.64	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.89	23.49	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.38	23.98	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.06	23.66	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.25	22.85	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.27	22.87	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.56	23.16	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.89	22.49	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.95	21.55	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.05	22.65	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.2	22.8	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.05	22.65	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.21	21.81	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.23	22.83	30	PASS



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 5 of 68

Band4	5MHz	16QAM	20375	1RB#12	22.49	23.09	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.27	22.87	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.22	21.82	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.22	21.82	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.46	22.06	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	20.9	21.5	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.19	20.79	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.18	21.78	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.54	22.14	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.34	21.94	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.36	20.96	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.2	21.8	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.51	22.11	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.2	21.8	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.23	20.83	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.08	23.68	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.19	23.79	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.75	23.35	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.77	22.37	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.79	23.39	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.97	23.57	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.84	23.44	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.44	23.04	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.23	23.83	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.38	23.98	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.14	23.74	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.34	22.94	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.3	22.9	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.03	22.63	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.98	22.58	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.77	21.37	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.04	22.64	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.17	22.77	30	PASS



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 6 of 68

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Band4	10MHz	16QAM	20175	50RB#0	21.41	22.01	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.51	23.11	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.48	23.08	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.34	22.94	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.32	21.92	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.21	21.81	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	20.96	21.56	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	20.94	21.54	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	19.81	20.41	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	20.91	21.51	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.1	21.7	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.04	21.64	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.46	21.06	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.37	21.97	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.52	22.12	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.29	21.89	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.36	20.96	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.02	23.62	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.23	23.83	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.2	23.8	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.29	22.89	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.19	23.79	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.13	23.73	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23	23.6	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.27	22.87	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.17	23.77	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.27	23.87	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.09	23.69	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.33	22.93	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.27	22.87	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.37	22.97	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.5	23.1	30	PASS



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 7 of 68

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Band4	15MHz	16QAM	20175	1RB#0	22.4	23	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.11	22.71	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.43	23.03	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.19	21.79	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.28	22.88	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.44	23.04	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.35	22.95	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.29	21.89	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.18	21.78	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.4	22	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.32	21.92	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.29	20.89	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.31	21.91	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.5	22.1	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.38	21.98	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.41	21.01	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.28	21.88	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.36	21.96	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.2	21.8	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.34	20.94	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.82	23.42	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.34	23.94	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.62	23.22	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.75	22.35	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.43	23.03	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.91	23.51	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.59	23.19	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.88	22.48	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.95	23.55	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.34	23.94	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.93	23.53	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.32	22.92	30	PASS



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 8 of 68

Band4	20MHz	16QAM	20050	1RB#0	22.08	22.68	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.37	22.97	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.88	22.48	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.79	21.39	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.68	22.28	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.11	22.71	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.87	22.47	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.88	21.48	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.05	22.65	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.65	23.25	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.22	22.82	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.28	21.88	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.92	21.52	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.32	21.92	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.77	21.37	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.12	20.72	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.62	21.22	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.06	21.66	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.83	21.43	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.41	21.01	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.12	21.72	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.47	22.07	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.06	21.66	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.34	20.94	30	PASS



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Rev.: 01

Page: 9 of 68

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.20	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.30	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.98	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.00	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.12	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.76	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.32	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.40	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.18	13	PASS



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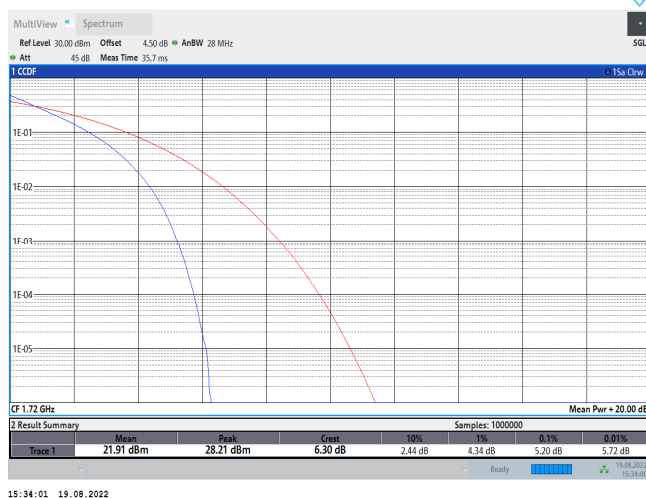
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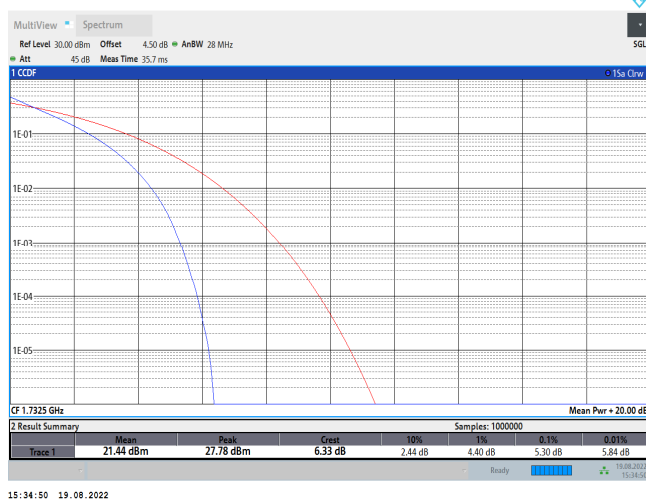
Page: 10 of 68

Test Graphs

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



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



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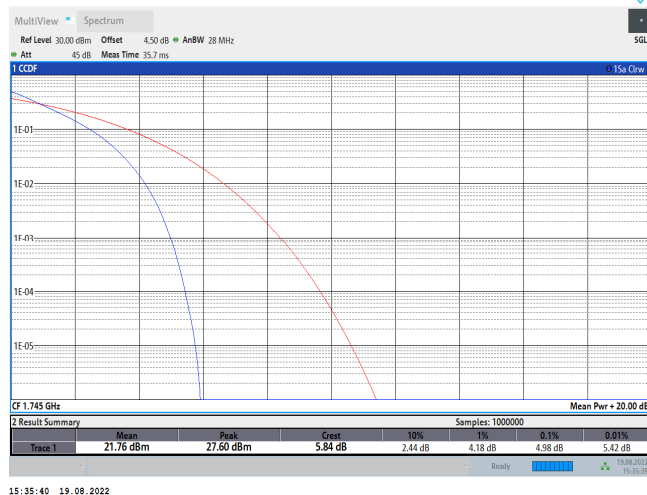
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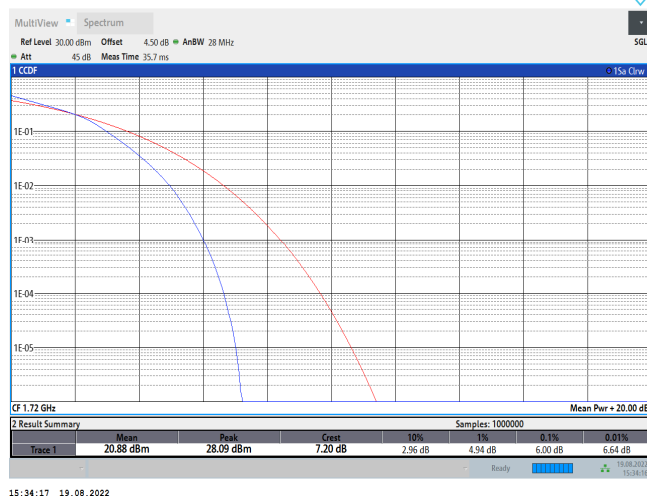
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Band4-20MHz-QPSK-20300-100RB#0



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



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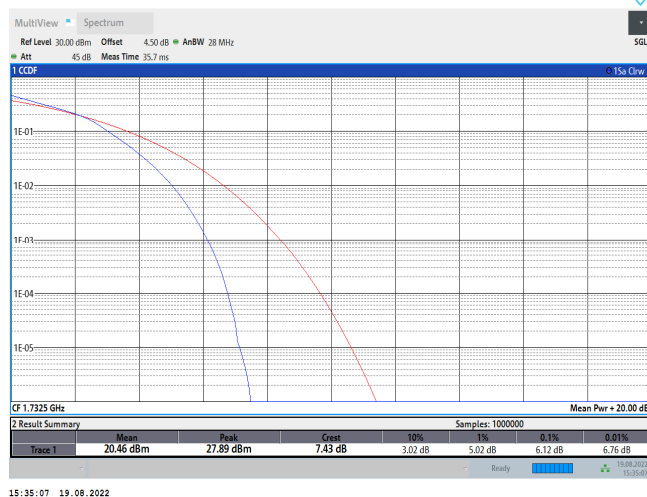
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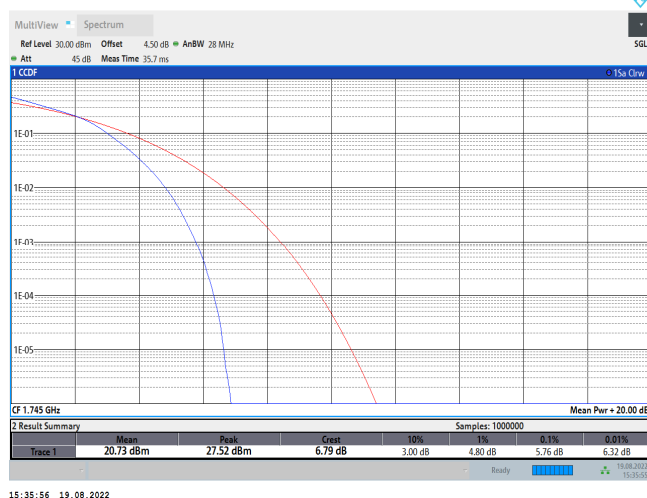
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Band4-20MHz-16QAM-20175-100RB#0



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



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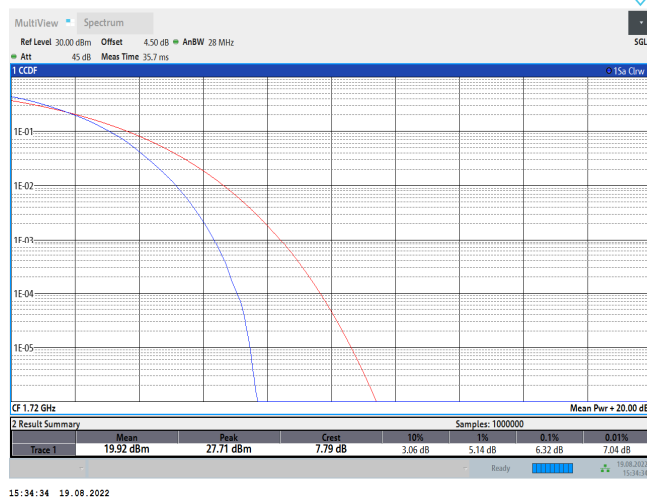
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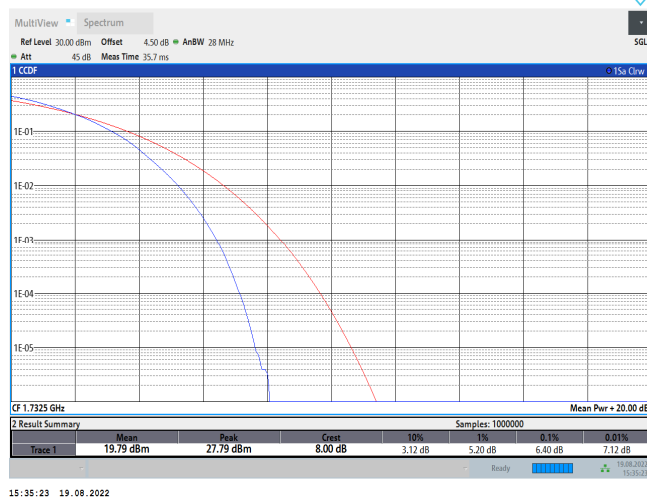
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Band4-20MHz-64QAM-20050-100RB#0



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



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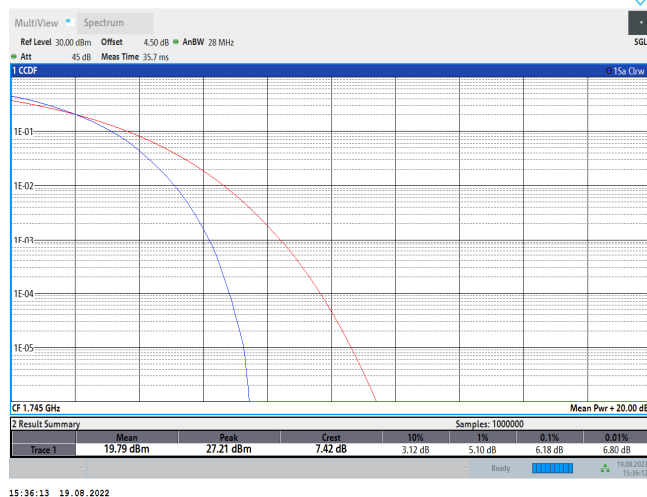
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Band4-20MHz-64QAM-20300-100RB#0



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Report No.: SEWM2208000146RG04
 Rev.: 01
 Page: 15 of 68

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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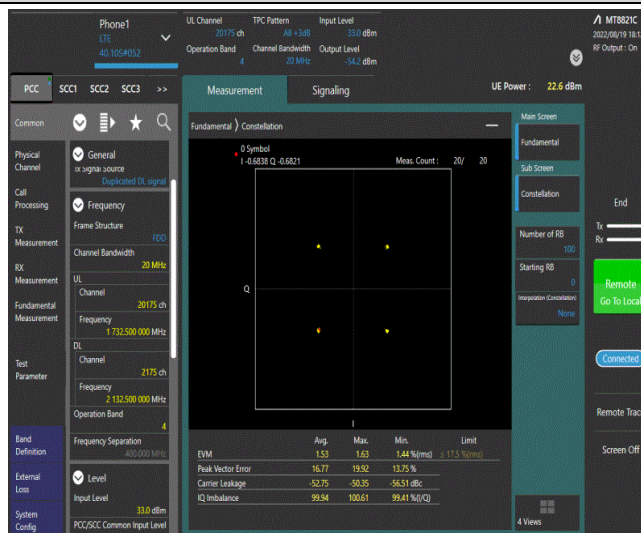
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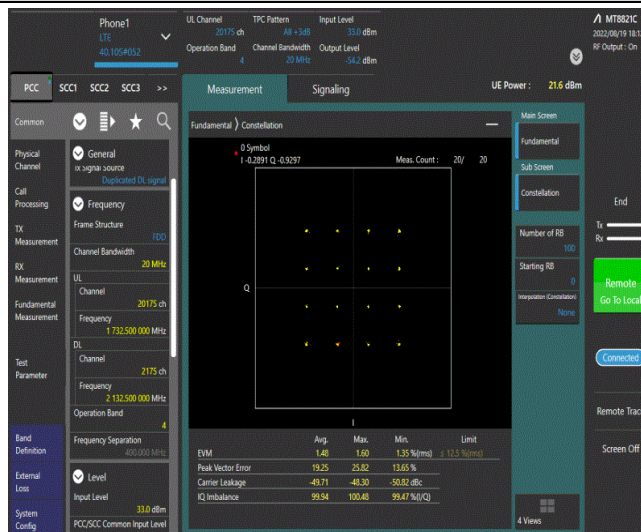
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 Rev.: 01
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Band4-20MHz-QPSK-20175-100RB#0



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



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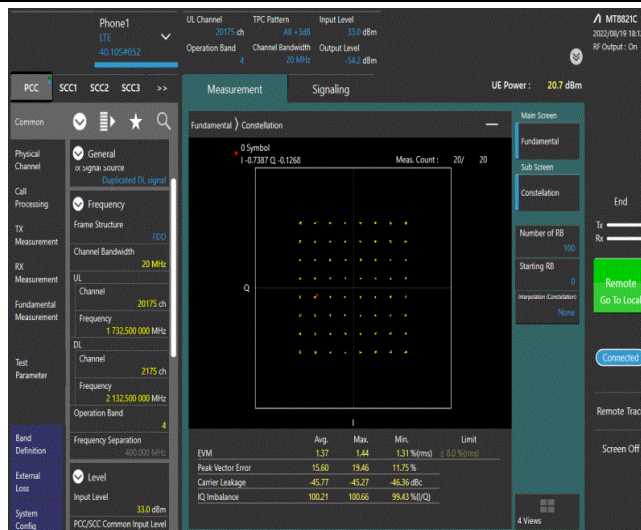
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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 17 of 68

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



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 18 of 68

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	1.31	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.099	1.31	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.098	1.31	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.095	1.31	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.096	1.31	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.097	1.32	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.683	2.91	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.687	2.89	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.687	2.90	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.679	2.91	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.681	3.13	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.68	2.90	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.68	2.88	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.678	2.89	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.683	2.90	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.475	4.99	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.472	5.04	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.474	5.03	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.471	5.05	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.474	5.03	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.474	5.03	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.481	5.18	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.488	5.04	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.486	5.07	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.937	9.80	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.928	9.86	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.949	9.80	PASS



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Rev.: 01

Page: 19 of 68

Band4	10MHz	16QAM	20000	50RB#0	8.922	9.80	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.923	9.86	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.92	9.88	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.939	9.88	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.946	10.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.946	9.84	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.489	15.03	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.504	15.09	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.5	15.21	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.484	15.18	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.494	15.18	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.476	15.09	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.482	15.06	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.483	15.15	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.463	15.12	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.939	19.80	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.944	19.72	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.954	20.84	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.9	19.72	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.903	19.52	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.919	19.60	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.927	20.20	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.944	25.32	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.912	19.52	PASS



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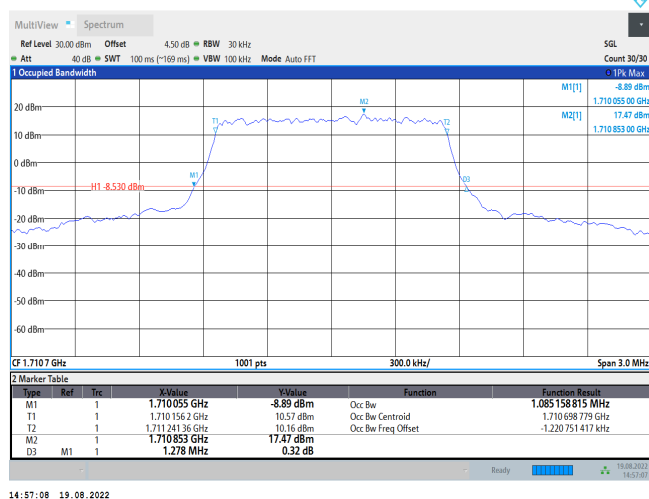
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Rev.: 01

Page: 20 of 68

Test Graphs

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



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



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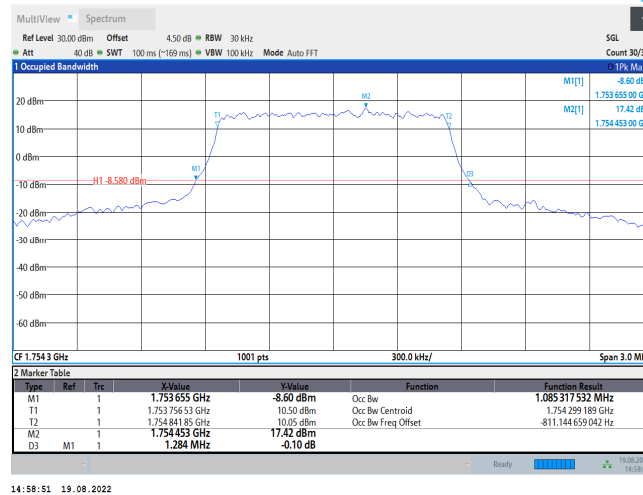
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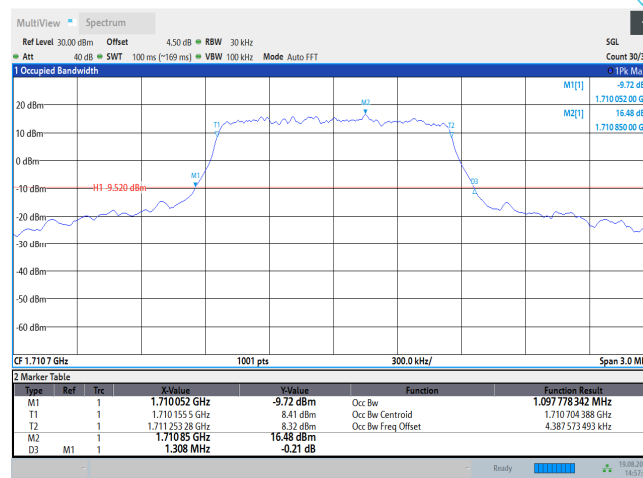
Page: 21 of 68

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



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



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



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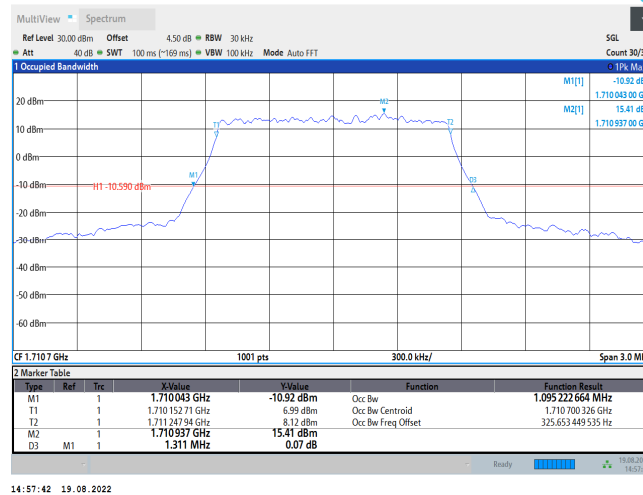
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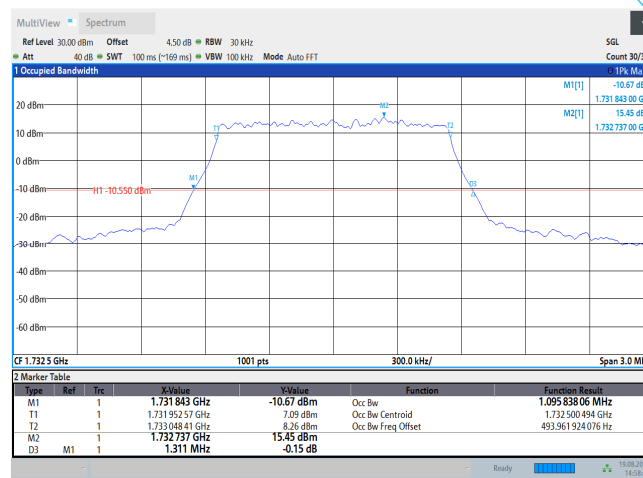
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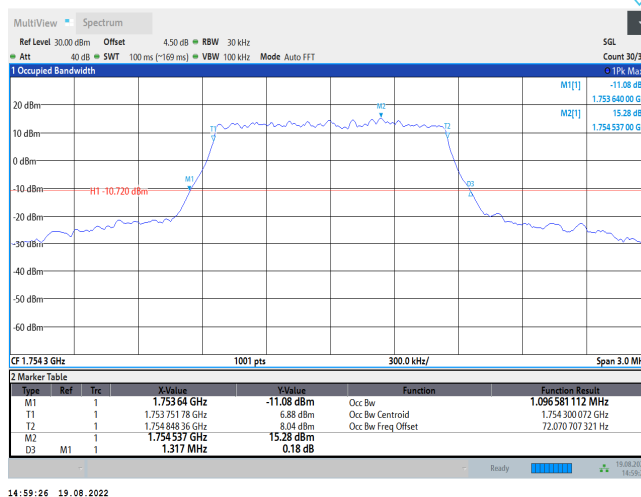
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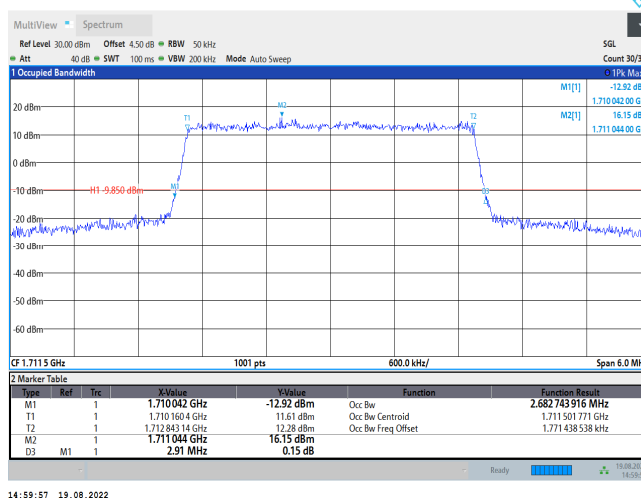
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Band4-1.4MHz-64QAM-20393-6RB#0



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



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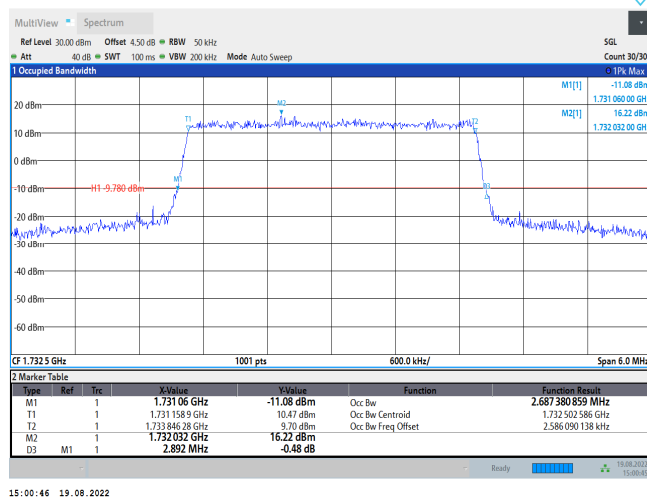
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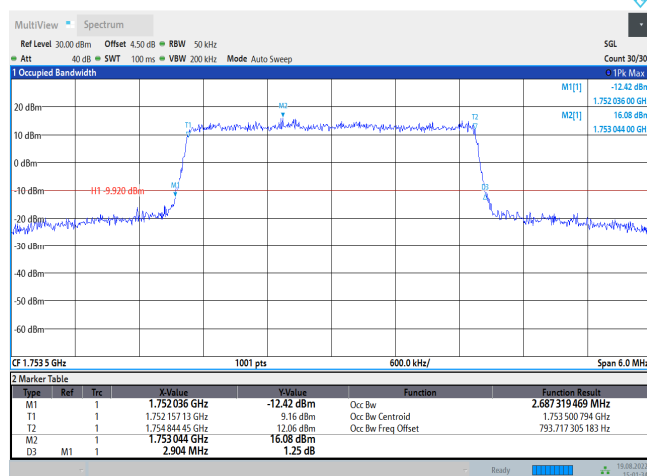
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Band4-3MHz-QPSK-20175-15RB#0



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



15:01:35 19.08.2022



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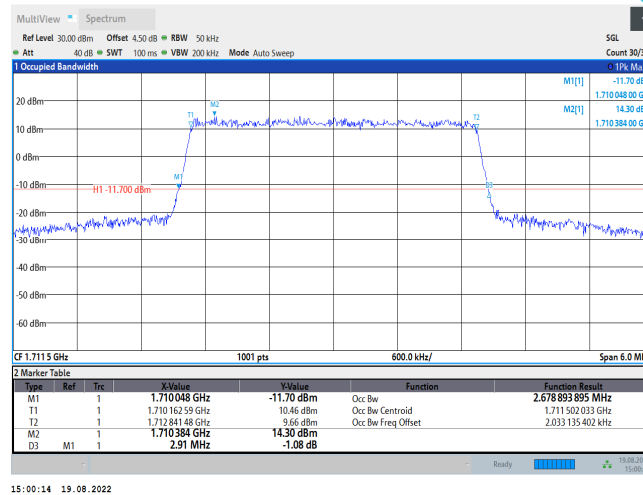
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Rev.: 01

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



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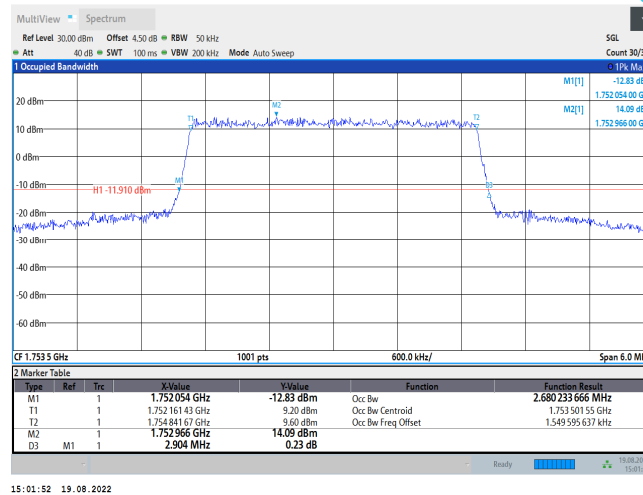
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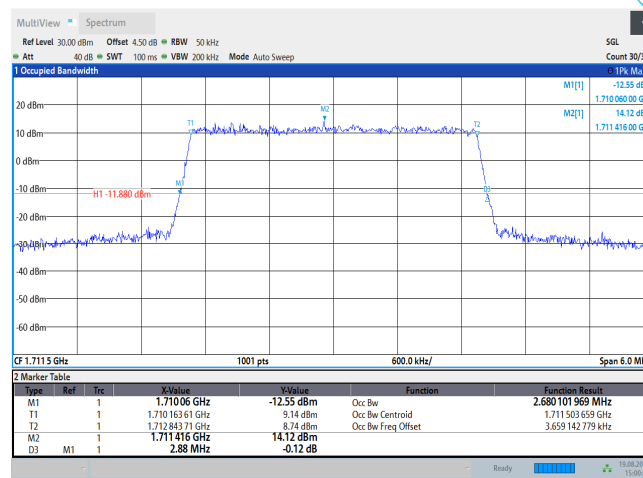
Page: 27 of 68

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



15:01:52 19.08.2022

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



15:00:30 19.08.2022



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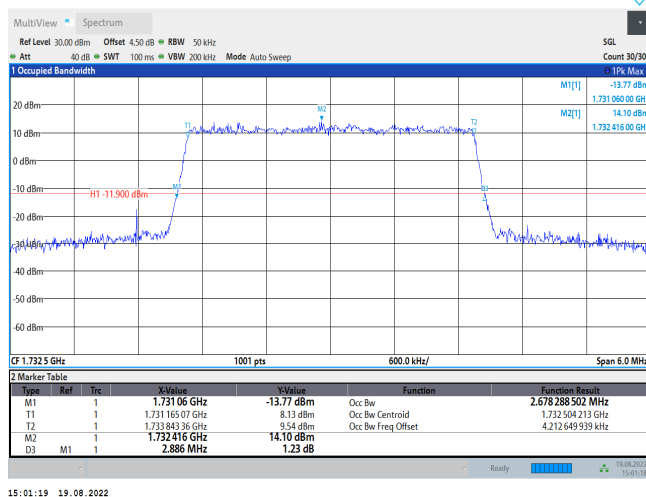
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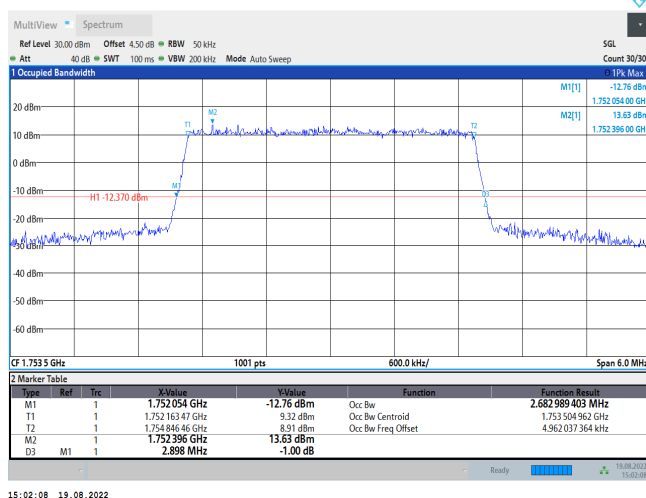
Rev.: 01

Page: 28 of 68

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



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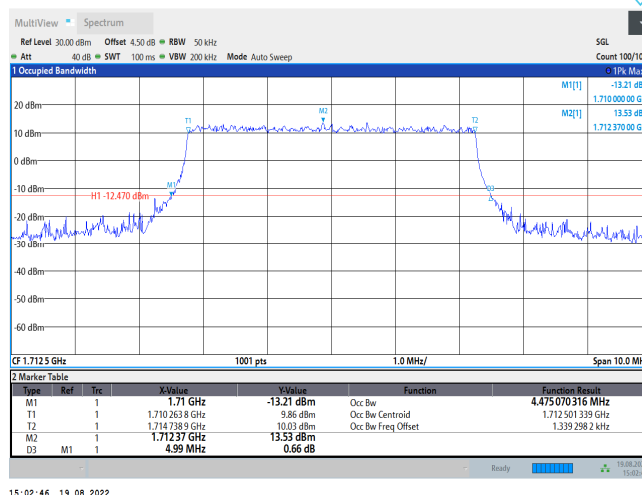


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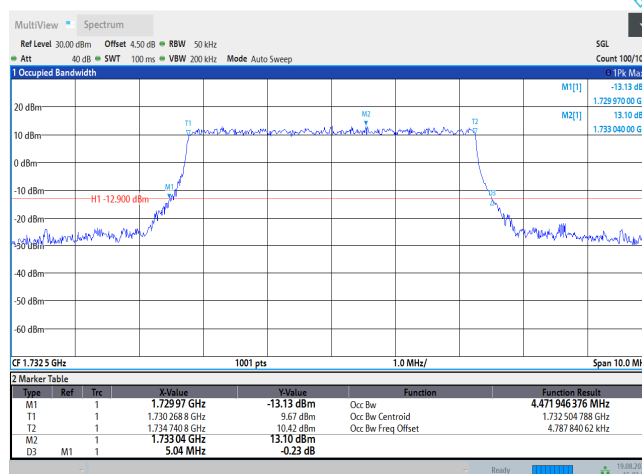
Page: 29 of 68

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



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15:03:57 19.08.2022



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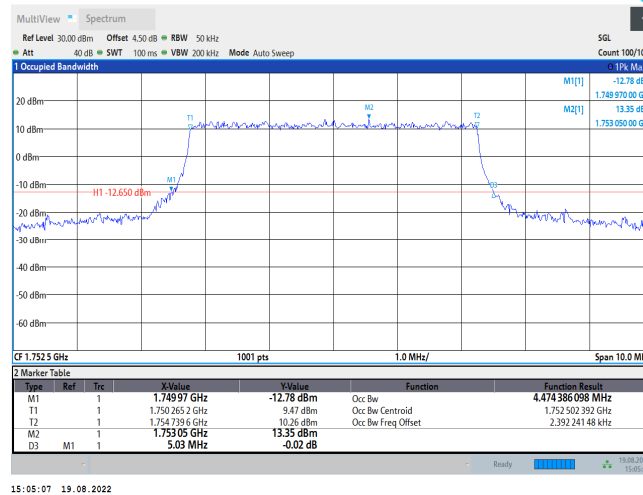
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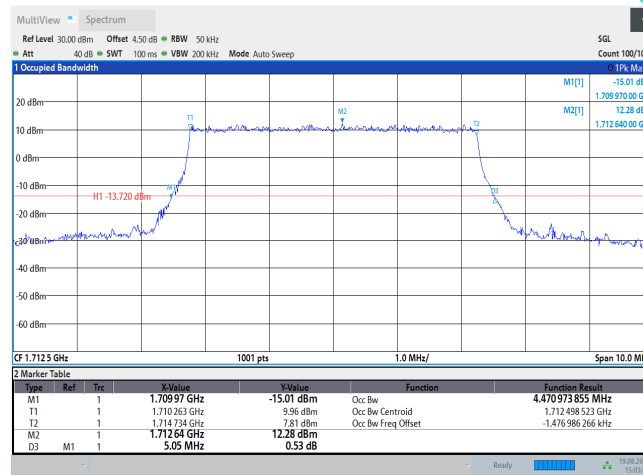
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Band4-5MHz-QPSK-20375-25RB#0



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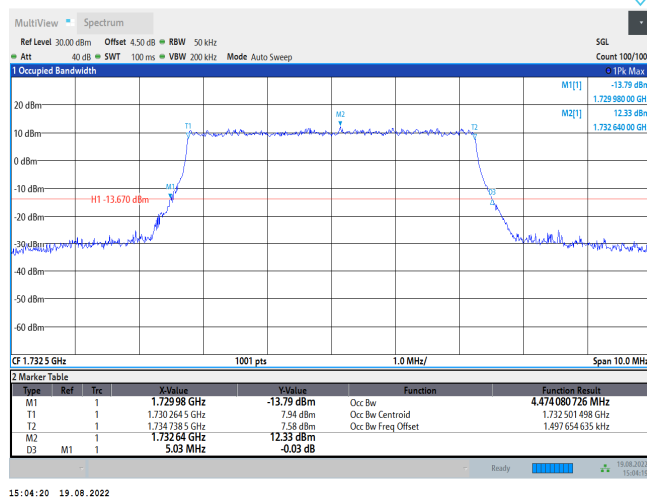
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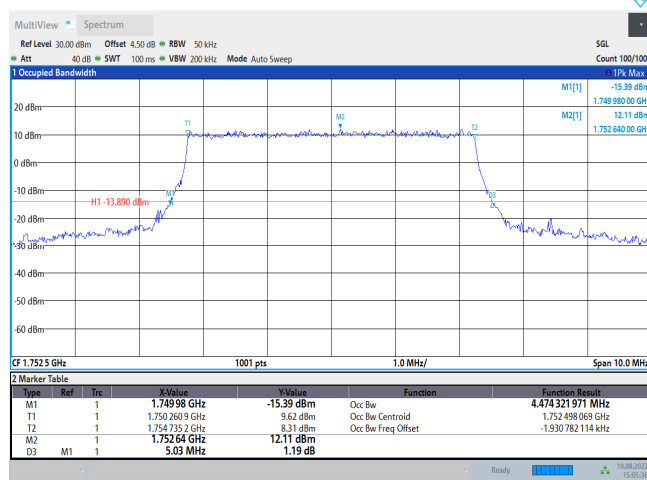
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Band4-5MHz-16QAM-20175-25RB#0



15:04:20 19.08.2022

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



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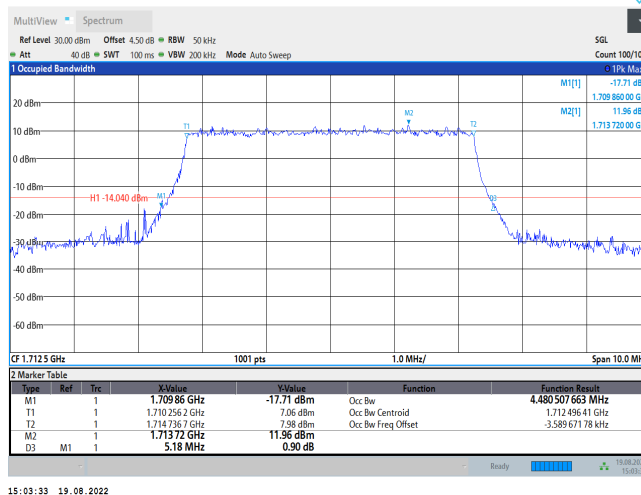
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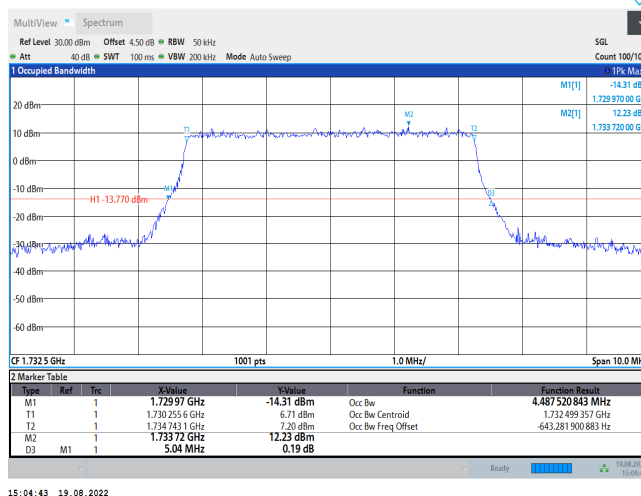
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Band4-5MHz-64QAM-19975-25RB#0



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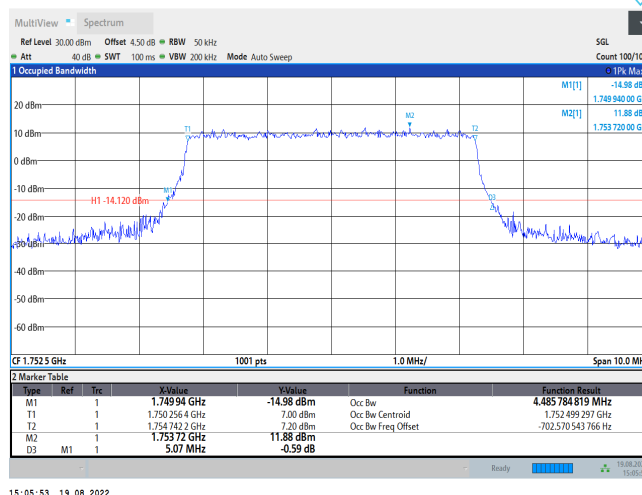
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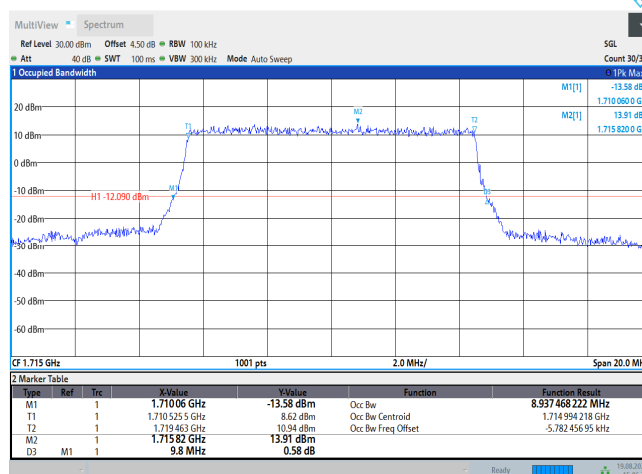
Page: 33 of 68

Band4-5MHz-64QAM-20375-25RB#0



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



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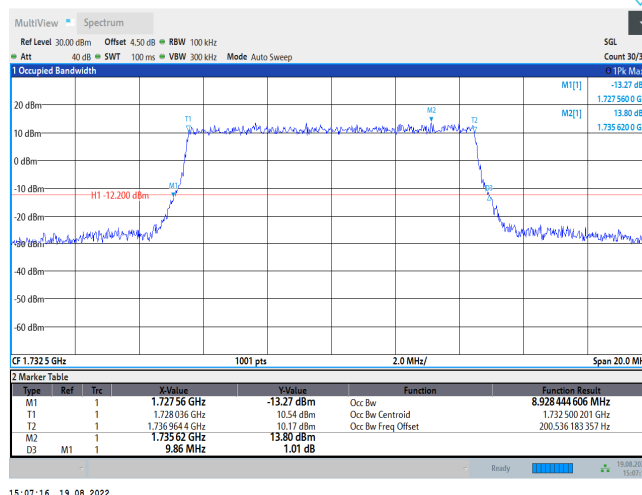
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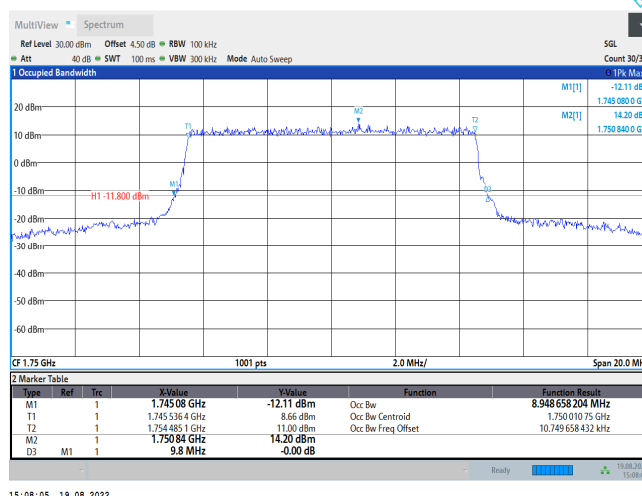
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Page: 34 of 68

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



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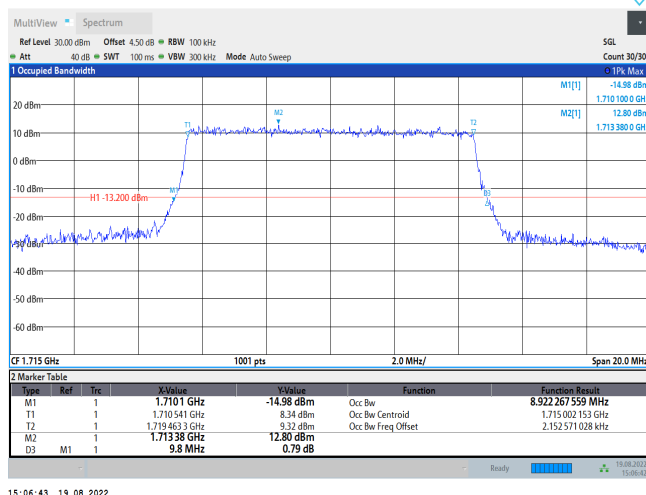
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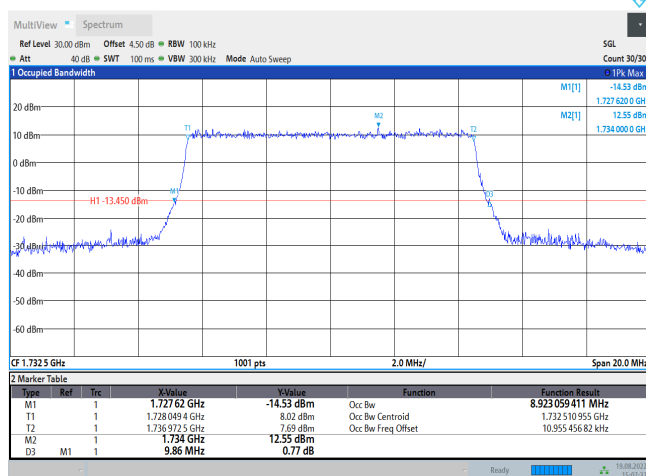
Page: 35 of 68

Band4-10MHz-16QAM-20000-50RB#0



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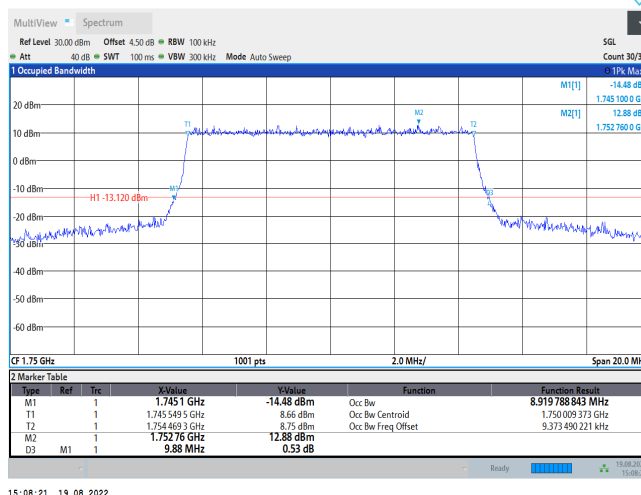
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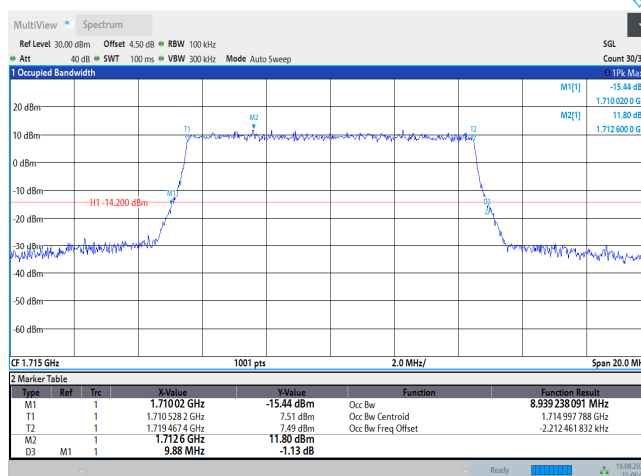
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Band4-10MHz-16QAM-20350-50RB#0



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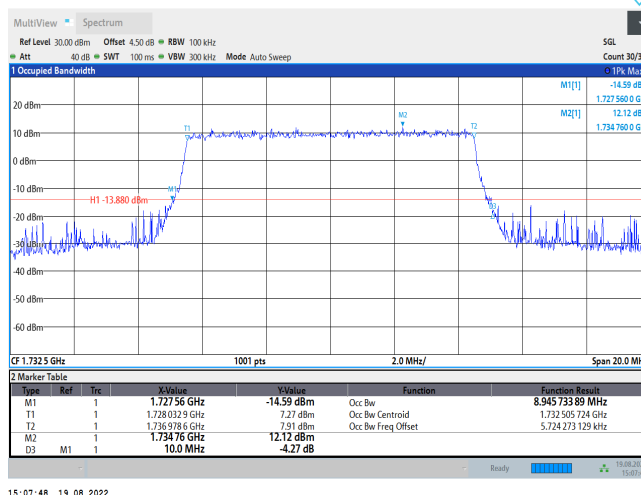
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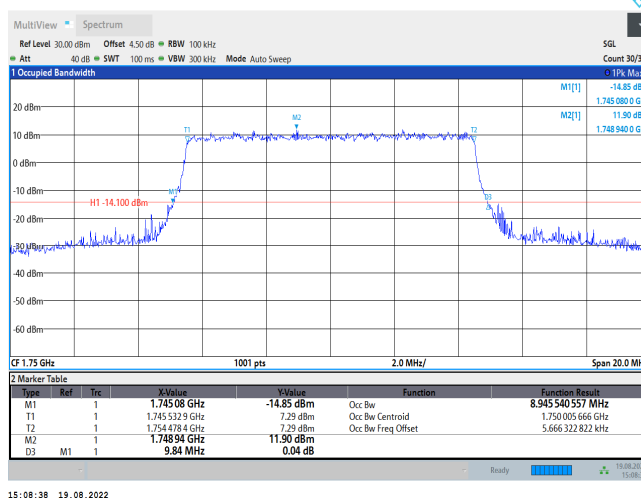
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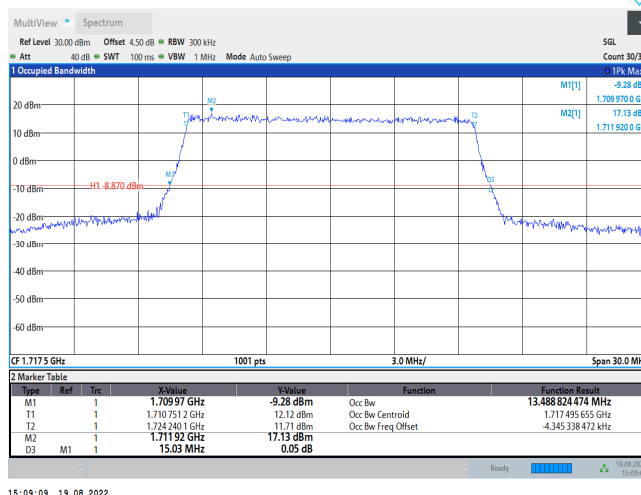
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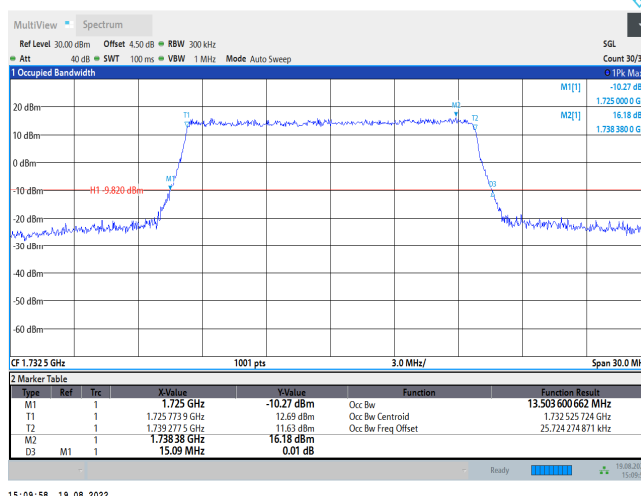
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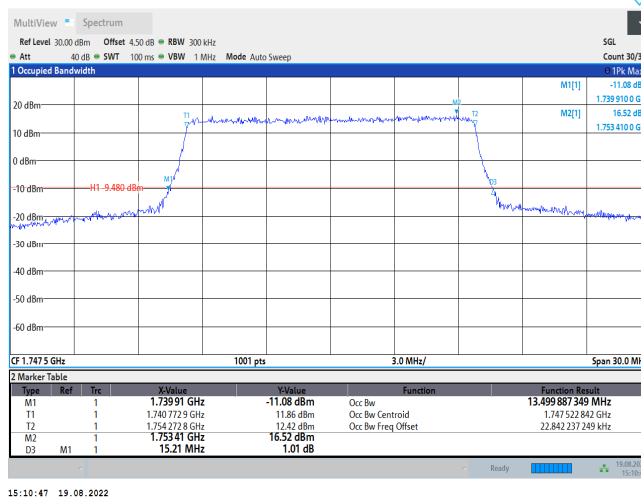
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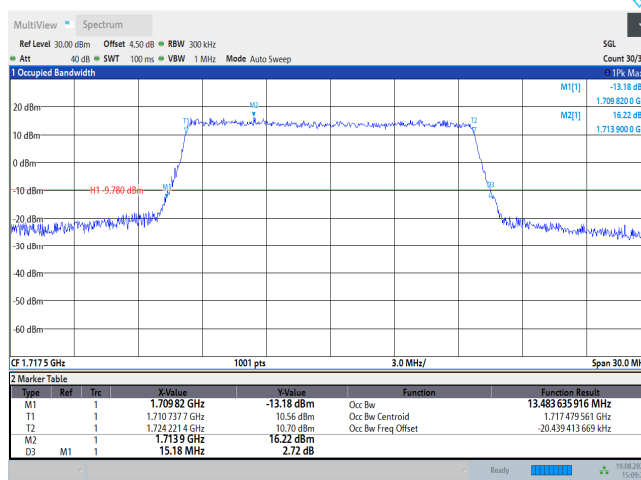
Page: 39 of 68

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



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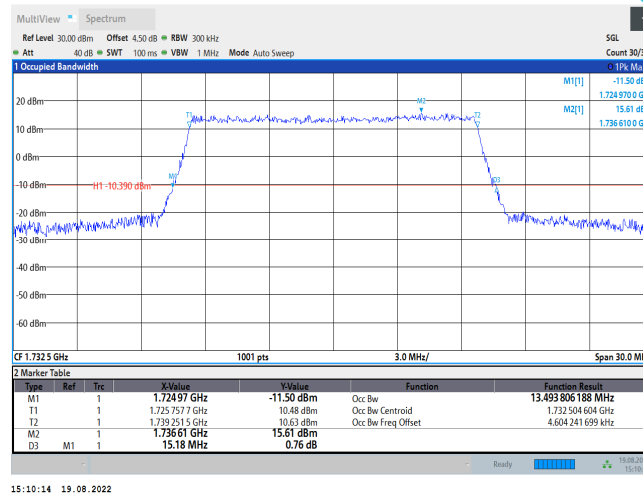
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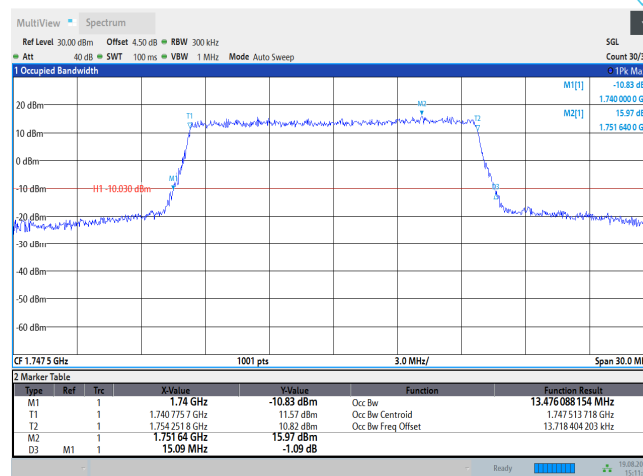
Page: 40 of 68

Band4-15MHz-16QAM-20175-75RB#0



15:10:14 19.08.2022

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



15:11:03 19.08.2022



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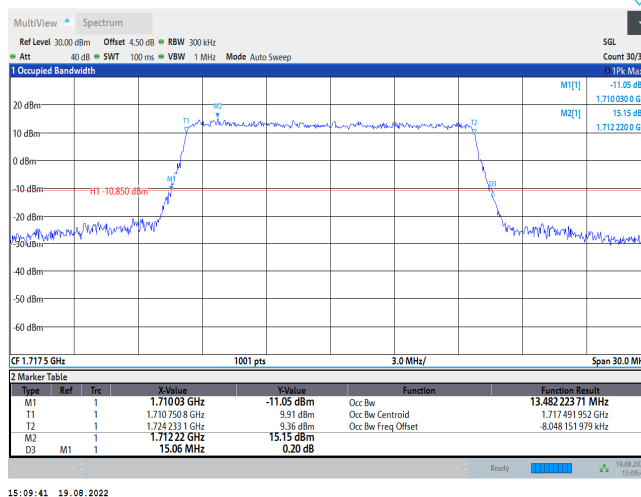
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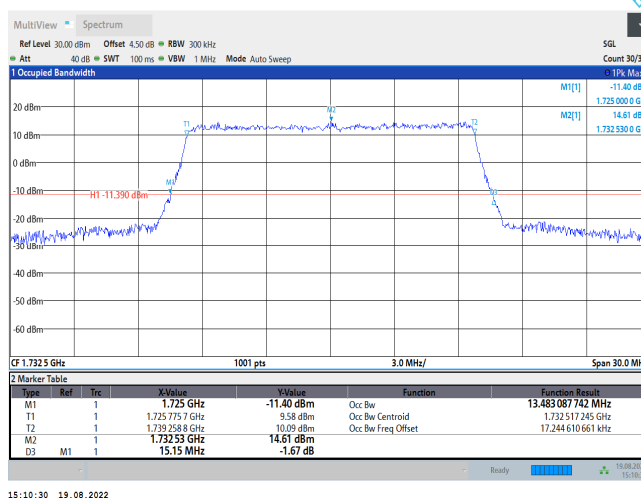
Page: 41 of 68

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



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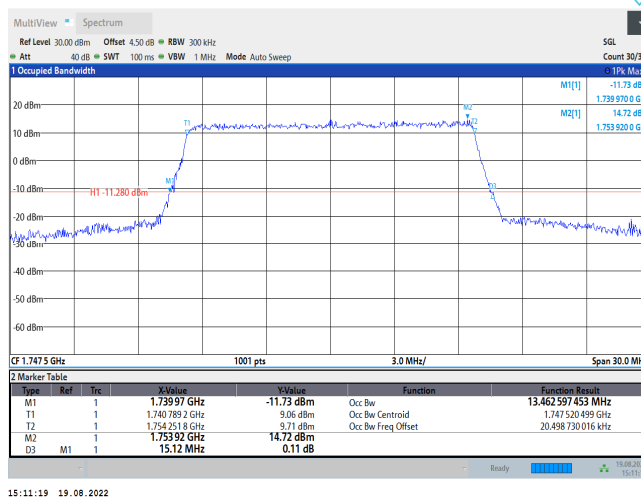
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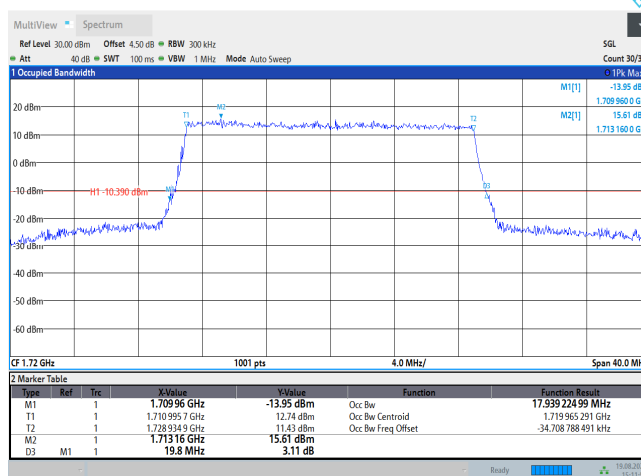
Page: 42 of 68

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



15:11:19 19.08.2022

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



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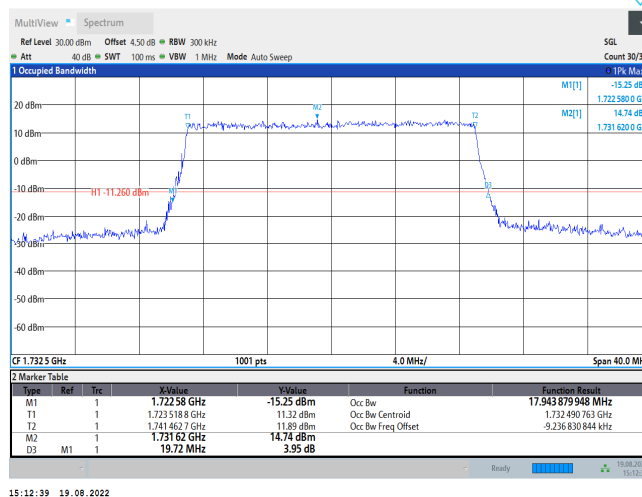
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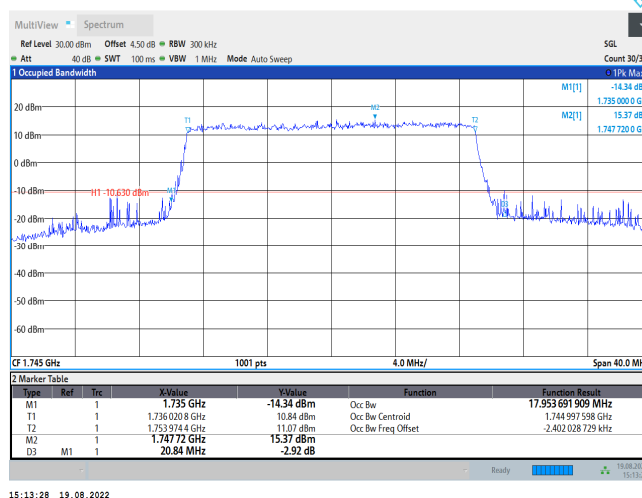
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Band4-20MHz-QPSK-20175-100RB#0



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



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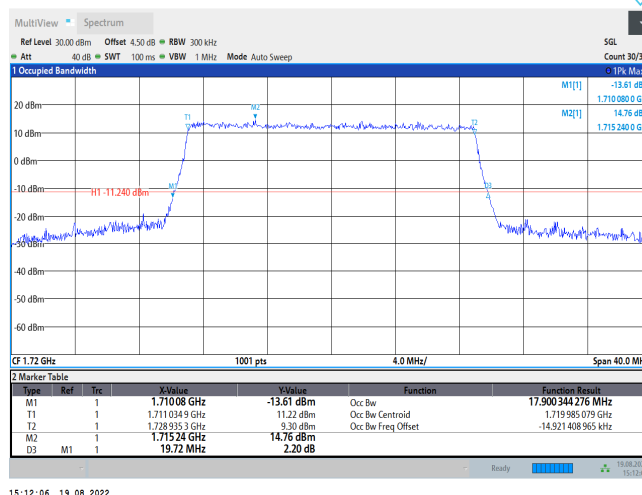
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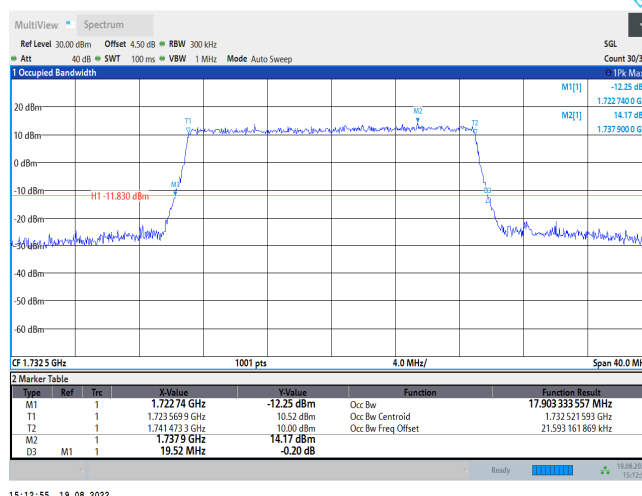
Page: 44 of 68

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



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



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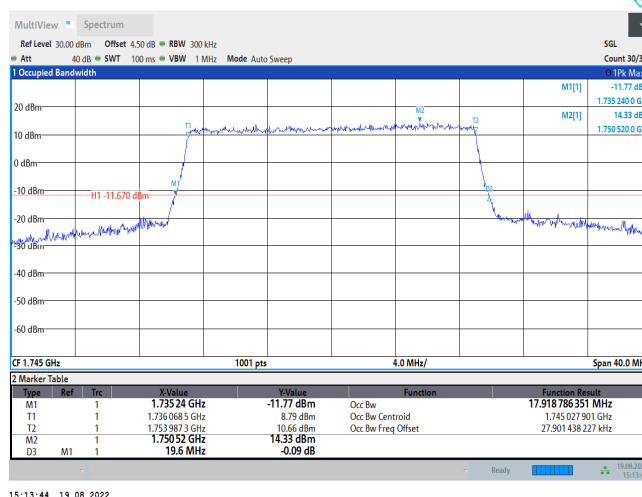
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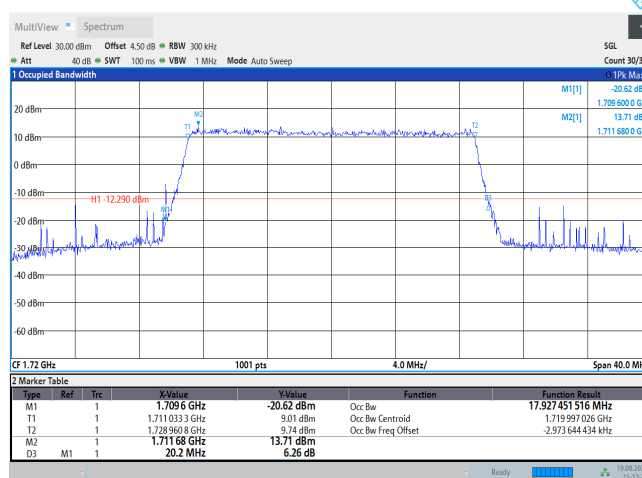
Page: 45 of 68

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



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



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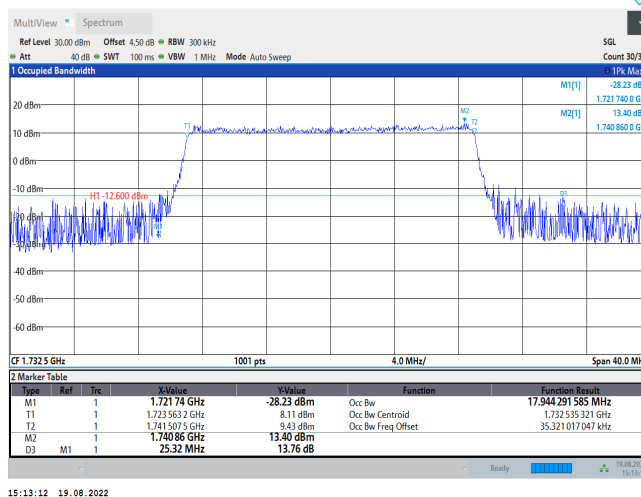
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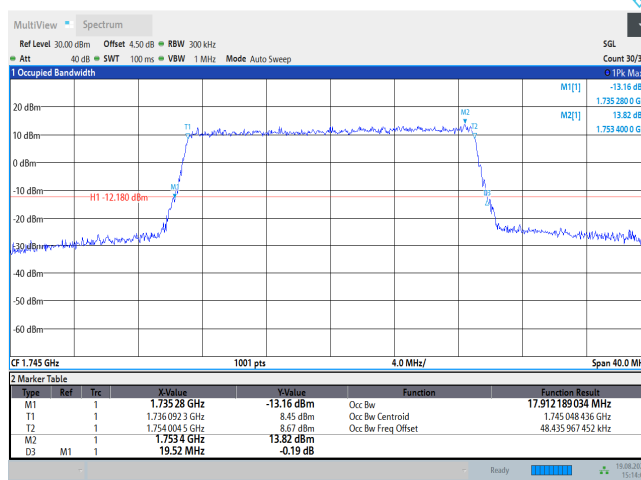
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Band4-20MHz-64QAM-20175-100RB#0



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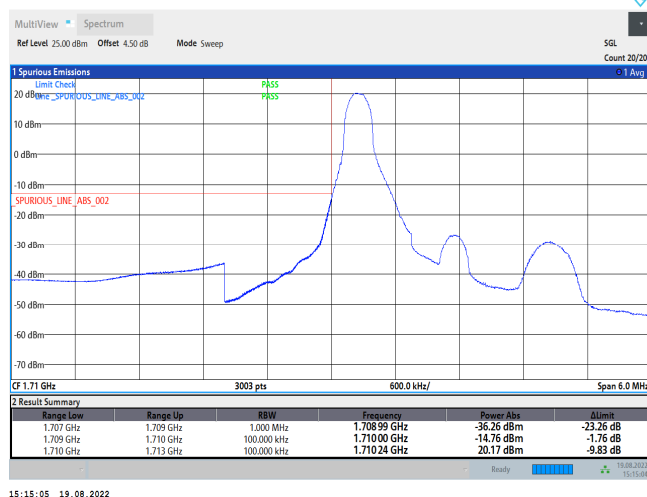
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Page: 47 of 68

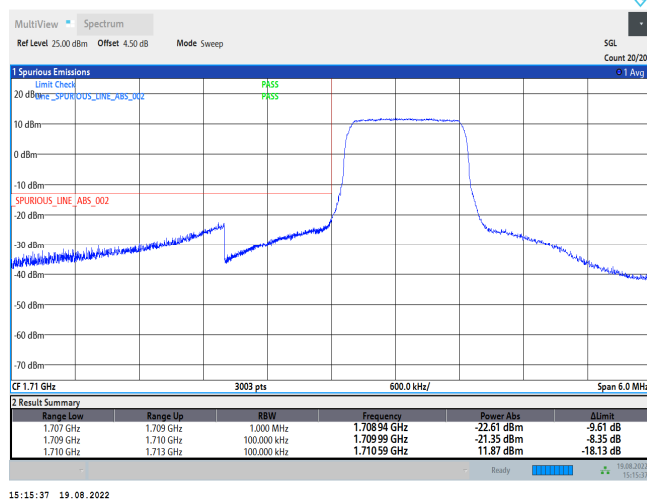
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Test Graphs

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



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



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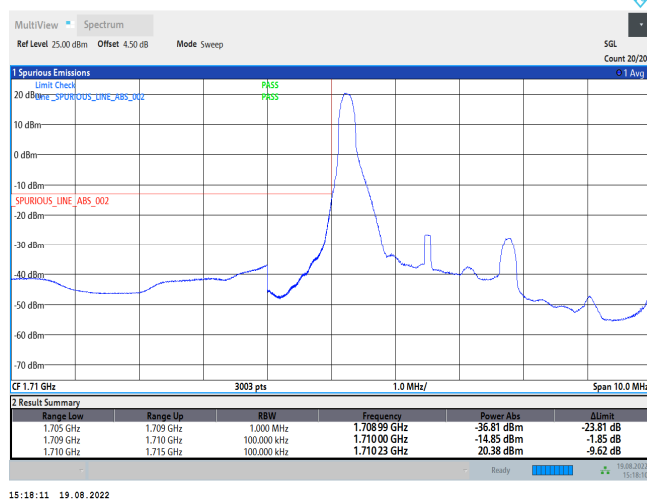
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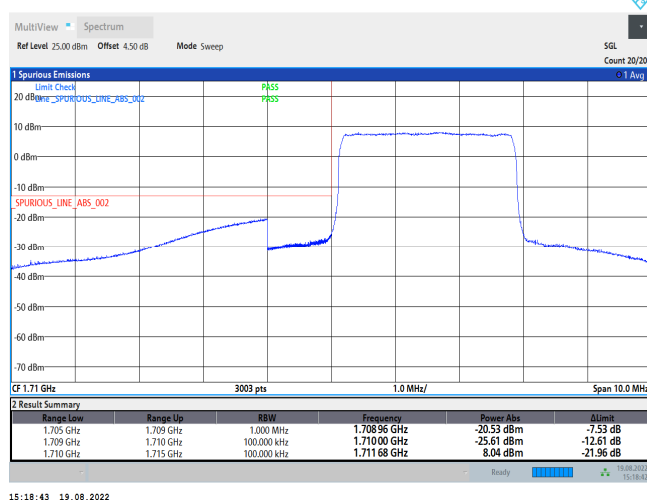
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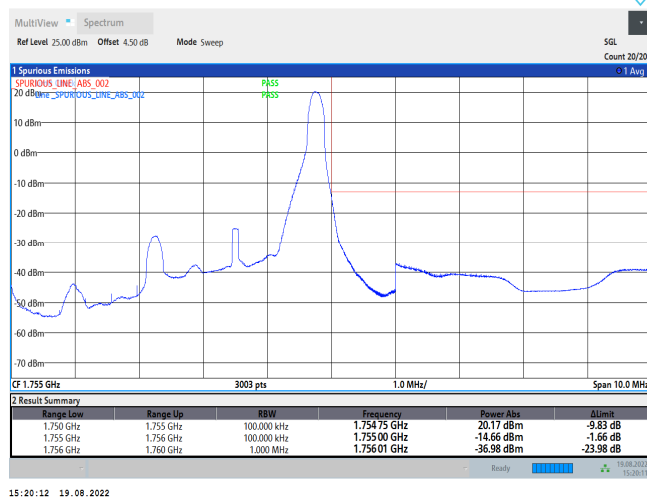
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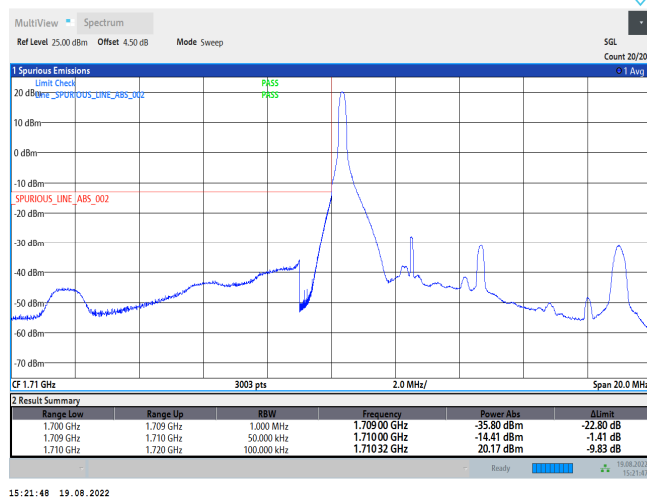
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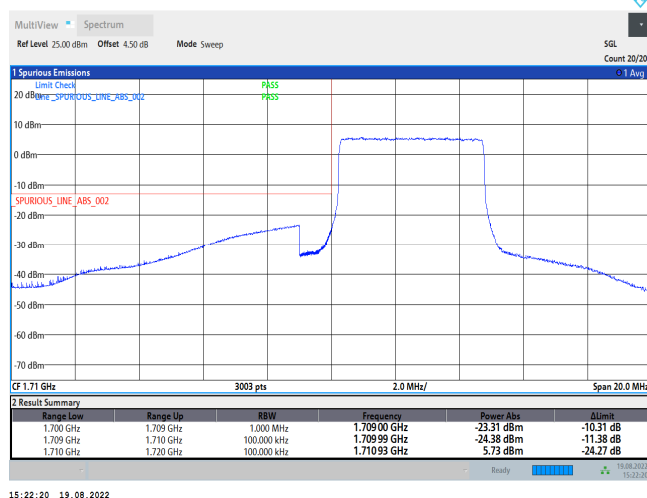
Rev.: 01

Page: 51 of 68

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



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



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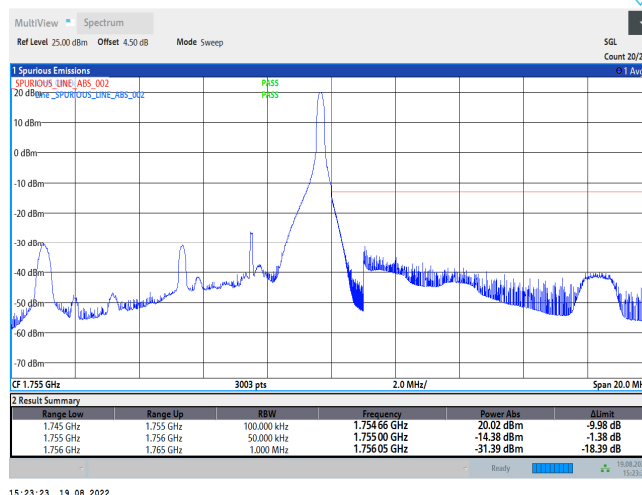
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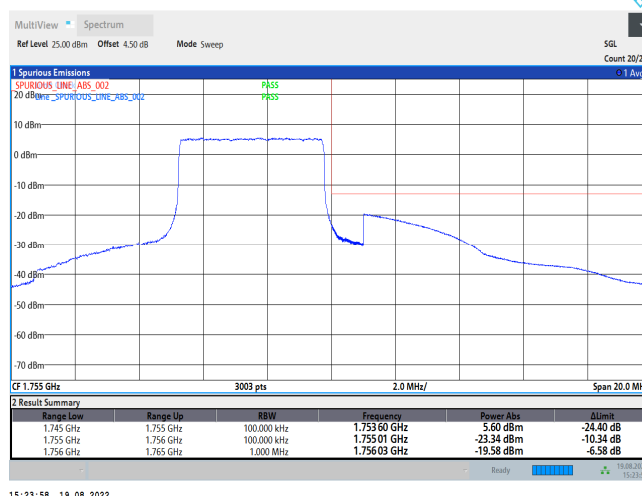
Page: 52 of 68

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



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



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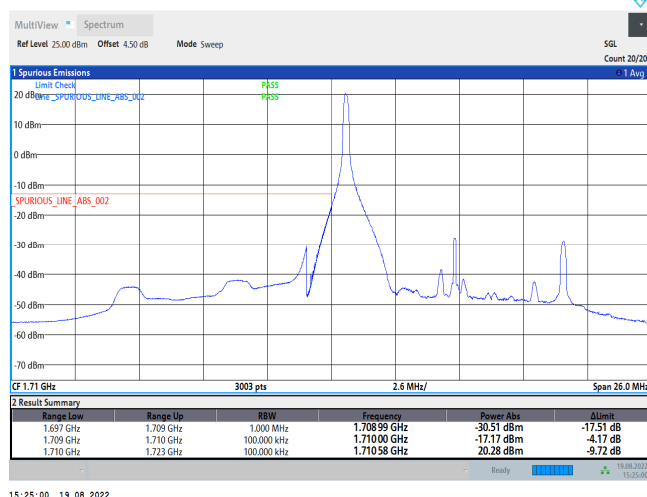
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Band4-10MHz-QPSK-20000-1RB#0



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



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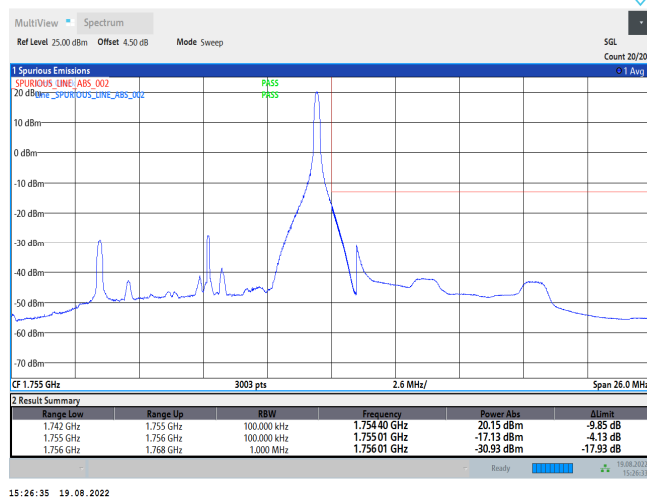
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Band4-10MHz-QPSK-20350-1RB#49



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



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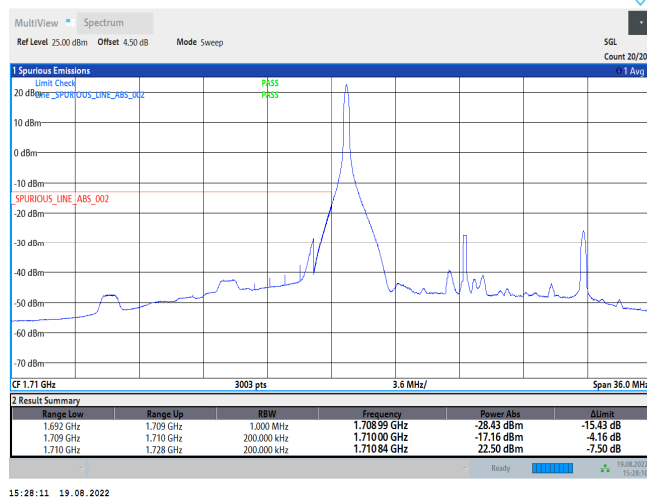
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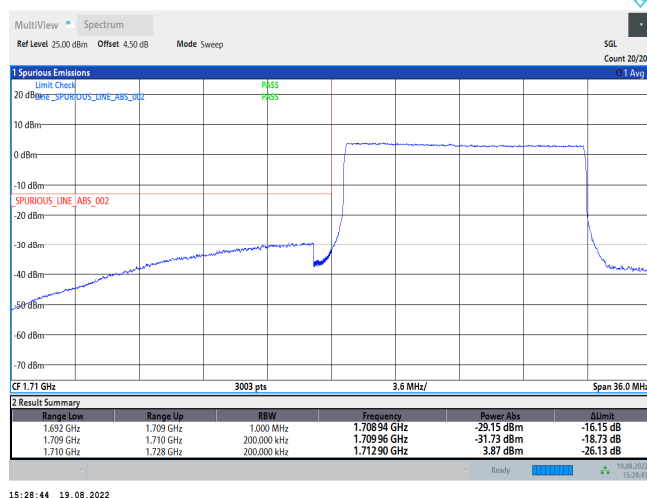
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Band4-15MHz-QPSK-20025-75RB#0



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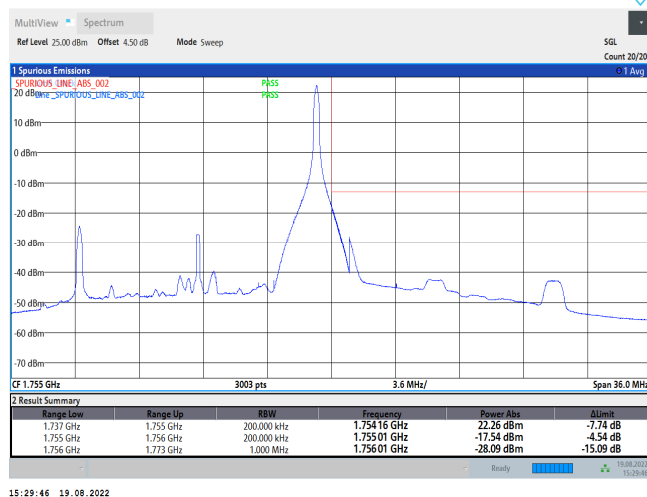
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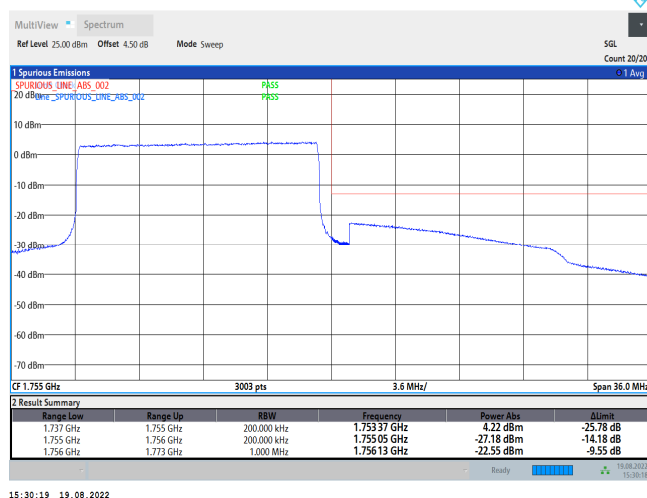
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Band4-15MHz-QPSK-20325-1RB#74



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



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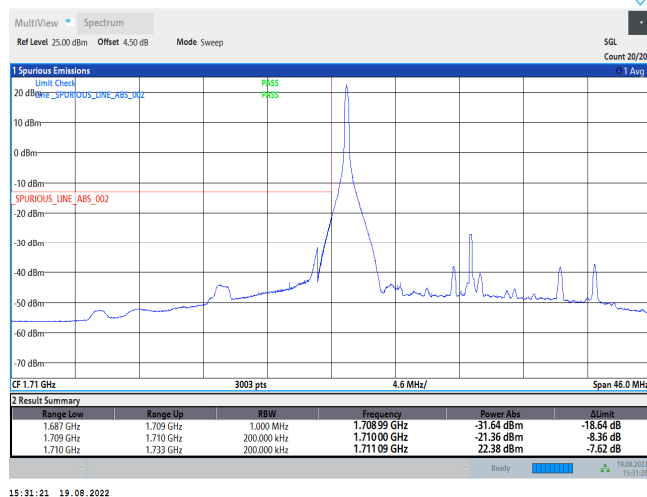
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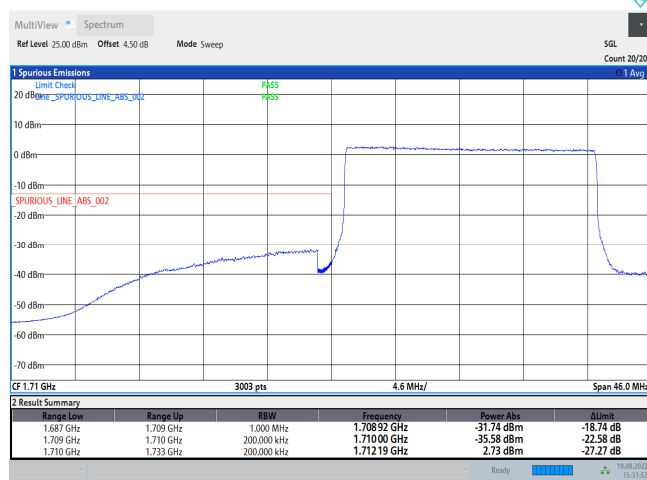
Page: 57 of 68

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



15:31:21 19.08.2022

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



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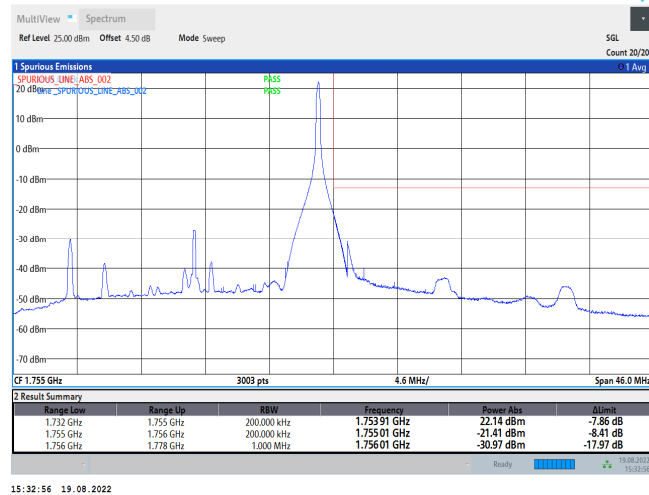
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Page: 58 of 68

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



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



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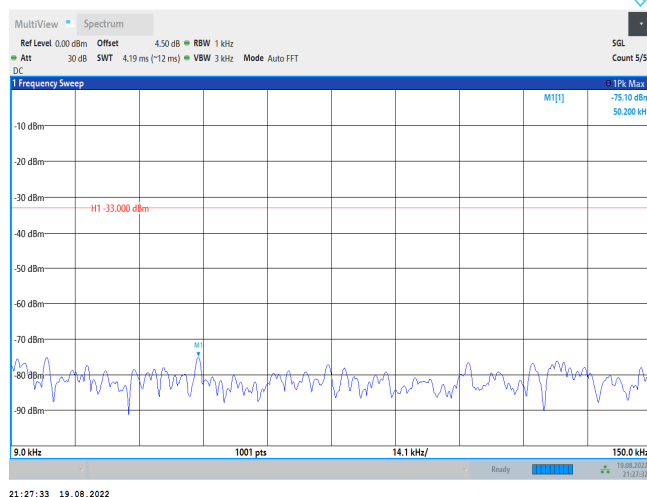
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Page: 59 of 68

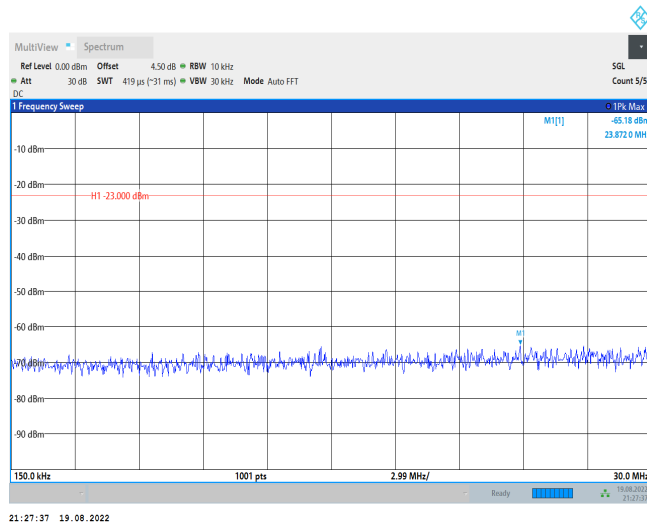
Conducted Spurious Emission

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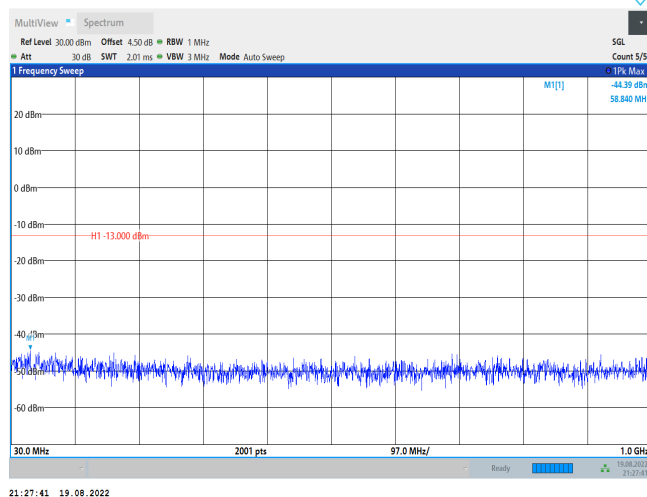
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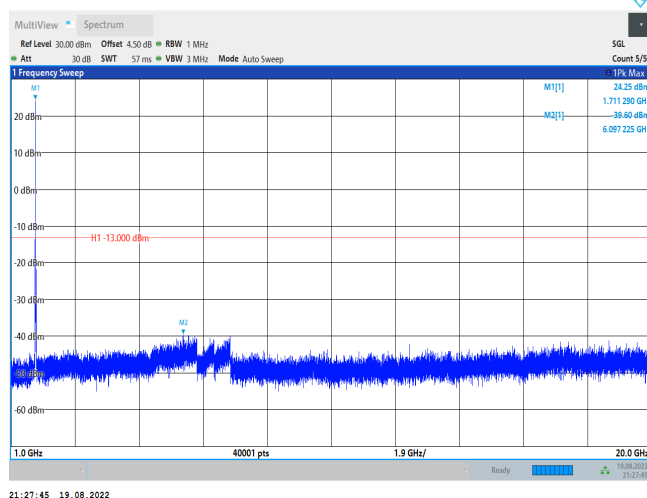
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Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



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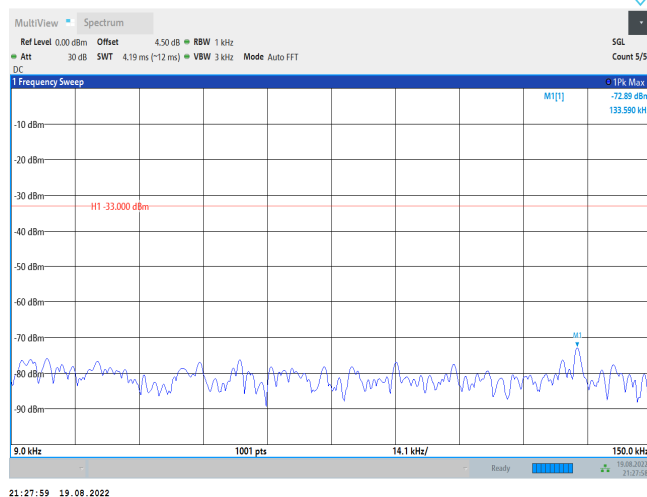
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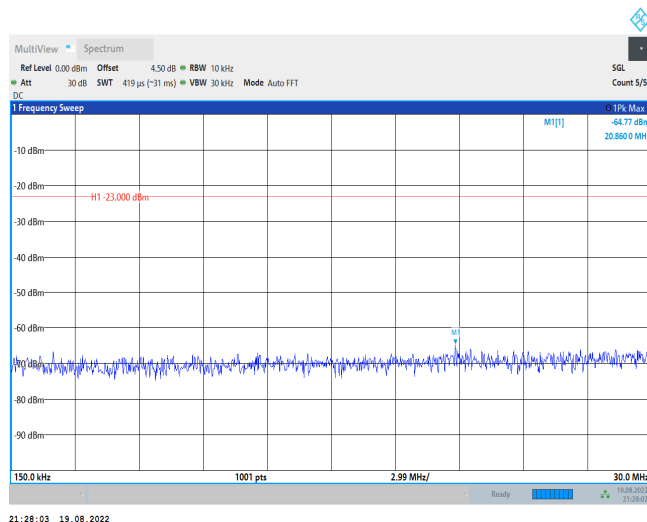
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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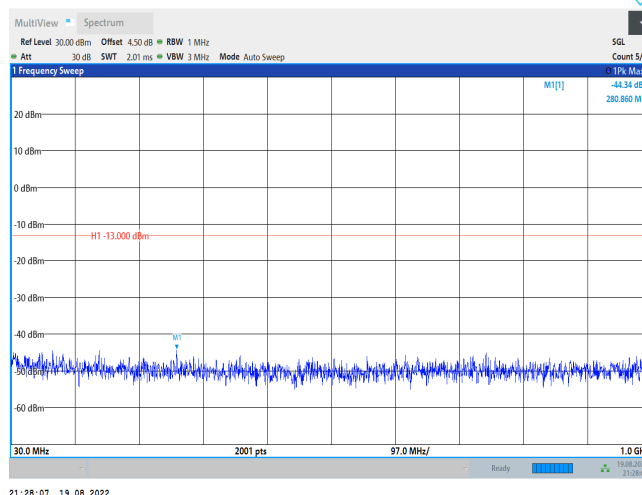
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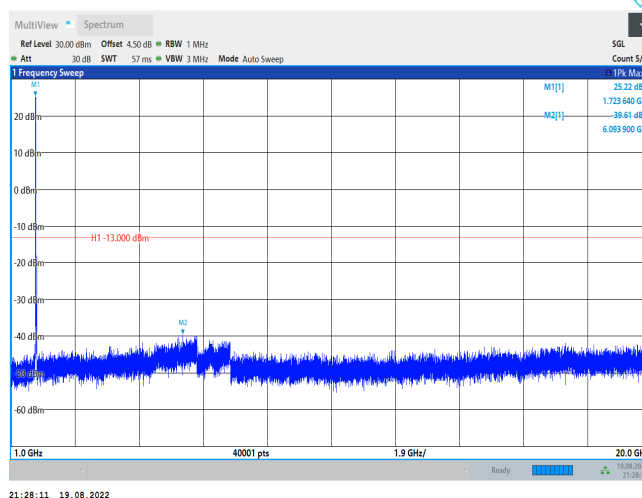
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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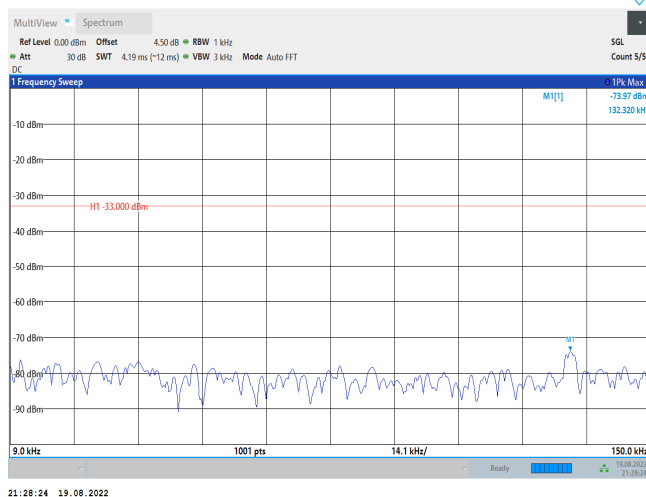
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Rev.: 01

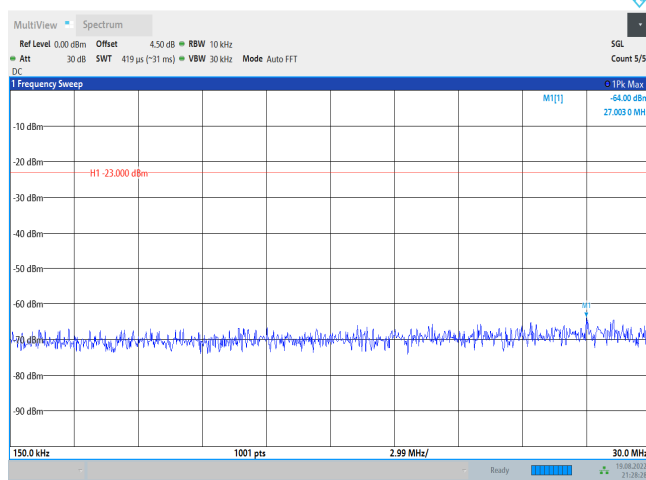
Page: 63 of 68

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



21:28:24 19.08.2022

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



21:28:28 19.08.2022



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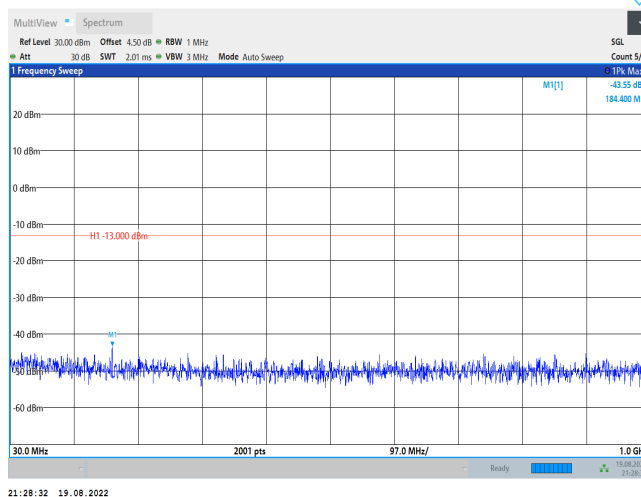
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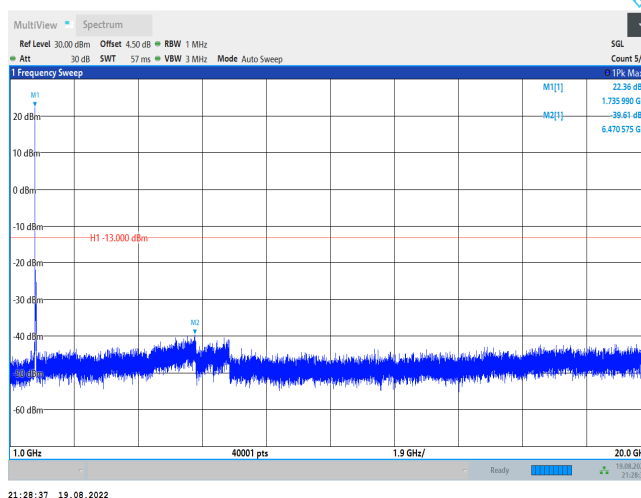
Rev.: 01

Page: 64 of 68

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



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



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Rev.: 01

Page: 65 of 68

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	61.22	-46.28	29.45	-50.87	-13.00	37.87	216	245	Horizontal
2	5133.2700	47.11	-45.34	32.95	-60.54	-13.00	47.54	158	169	Horizontal
3	6844.3600	46.53	-44.14	35.89	-56.98	-13.00	43.98	142	336	Horizontal
4	8555.4500	42.88	-41.46	37.66	-56.18	-13.00	43.18	195	60	Horizontal
5	10266.5400	38.13	-39.23	38.83	-57.53	-13.00	44.53	187	46	Horizontal
6	11977.6300	31.54	-37.51	38.95	-62.29	-13.00	49.29	123	16	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	3422.1800	59.62	-46.28	29.45	-52.47	-13.00	39.47	299	243	Vertical
2	5133.2700	47.54	-45.34	32.95	-60.11	-13.00	47.11	245	358	Vertical
3	6844.3600	46.88	-44.14	35.89	-56.63	-13.00	43.63	216	260	Vertical
4	8555.4500	43.27	-41.46	37.66	-55.79	-13.00	42.79	233	305	Vertical
5	10266.5400	37.44	-39.23	38.83	-58.22	-13.00	45.22	255	336	Vertical
6	11977.6300	31.92	-37.51	38.95	-61.91	-13.00	48.91	147	60	Vertical



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 66 of 68

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	62.14	-46.27	29.47	-49.92	-13.00	36.92	285	258	Horizontal
2	5170.7700	49.08	-45.31	32.97	-58.51	-13.00	45.51	123	244	Horizontal
3	6894.3600	47.06	-44.10	35.95	-56.35	-13.00	43.35	261	121	Horizontal
4	8617.9500	42.86	-41.40	37.78	-56.02	-13.00	43.02	191	44	Horizontal
5	10341.5400	36.67	-39.06	38.85	-58.80	-13.00	45.80	145	196	Horizontal
6	12065.1300	33.49	-37.44	39.02	-60.19	-13.00	47.19	172	304	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	3447.1800	56.19	-46.27	29.47	-55.87	-13.00	42.87	211	287	Vertical
2	5170.7700	48.06	-45.31	32.97	-59.53	-13.00	46.53	265	227	Vertical
3	6894.3600	47.48	-44.10	35.95	-55.93	-13.00	42.93	261	59	Vertical
4	8617.9500	44.12	-41.40	37.78	-54.76	-13.00	41.76	145	273	Vertical
5	10341.5400	37.11	-39.06	38.85	-58.36	-13.00	45.36	188	75	Vertical
6	12065.1300	33.11	-37.44	39.02	-60.57	-13.00	47.57	175	335	Vertical



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Rev.: 01

Page: 67 of 68

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	58.04	-46.27	29.50	-53.99	-13.00	40.99	216	240	Horizontal
2	5208.2700	47.24	-45.26	32.98	-60.30	-13.00	47.30	251	5	Horizontal
3	6944.3600	45.90	-43.85	36.01	-57.20	-13.00	44.20	148	24	Horizontal
4	8680.4500	42.12	-41.62	37.88	-56.88	-13.00	43.88	175	193	Horizontal
5	10416.5400	35.00	-38.97	38.88	-60.36	-13.00	47.36	133	316	Horizontal
6	12152.6300	33.09	-37.42	39.09	-60.50	-13.00	47.50	269	193	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	3472.1800	56.61	-46.27	29.50	-55.42	-13.00	42.42	251	314	Vertical
2	5208.2700	47.48	-45.26	32.98	-60.06	-13.00	47.06	145	115	Vertical
3	6944.3600	48.19	-43.85	36.01	-54.91	-13.00	41.91	186	210	Vertical
4	8680.4500	43.35	-41.62	37.88	-55.65	-13.00	42.65	191	24	Vertical
5	10416.5400	34.77	-38.97	38.88	-60.59	-13.00	47.59	172	0	Vertical
6	12152.6300	33.26	-37.42	39.09	-60.33	-13.00	47.33	163	194	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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Rev.: 01

Page: 68 of 68

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	-4.50	-0.002597	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-12.80	-0.007388	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-5.00	-0.002886	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-8.10	-0.004675	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	5.00	0.002886	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-4.50	-0.002597	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	1.00	0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-8.40	-0.004848	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	5.40	0.003117	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-11.60	-0.006696	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	2.50	0.001443	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-9.50	-0.005483	PASS

---End of Attachment---



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