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Appendix B.3

LTE Band 4

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

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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	23.29	26.29	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.4	26.4	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.31	26.31	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	23.39	26.39	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.38	26.38	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.53	26.53	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.44	26.44	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	23.49	26.49	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.45	26.45	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.53	26.53	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.46	26.46	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	23.59	26.59	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.51	25.51	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.61	25.61	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.47	25.47	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.46	24.46	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.66	25.66	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.74	25.74	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.73	25.73	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.61	24.61	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.71	25.71	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.88	25.88	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.71	25.71	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.72	24.72	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.46	24.46	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.53	24.53	30	PASS



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中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

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Band4	1.4MHz	64QAM	19957	1RB#5	21.48	24.48	30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	20.4	23.4	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.64	24.64	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.73	24.73	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.67	24.67	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.56	23.56	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.69	24.69	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.77	24.77	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.66	24.66	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.6	23.6	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.36	26.36	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.36	26.36	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.4	26.4	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	23.5	26.5	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.5	26.5	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.54	26.54	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.5	26.5	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.41	26.41	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.54	26.54	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.57	26.57	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.55	26.55	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	23.47	26.47	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.53	25.53	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.66	25.66	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.61	25.61	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.54	24.54	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.86	25.86	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.88	25.88	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.66	25.66	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.63	24.63	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.87	25.87	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.8	25.8	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.8	25.8	30	PASS



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Band4	3MHz	16QAM	20385	15RB#0	21.74	24.74	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.52	24.52	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.58	24.58	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.51	24.51	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.5	23.5	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.75	24.75	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.81	24.81	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.71	24.71	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.68	23.68	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.74	24.74	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.74	24.74	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.82	24.82	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.69	23.69	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.35	26.35	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.4	26.4	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.37	26.37	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.51	26.51	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.51	26.51	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.54	26.54	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.52	26.52	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	23.35	26.35	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.57	26.57	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.64	26.64	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.59	26.59	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	23.45	26.45	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.6	25.6	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.64	25.64	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.65	25.65	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.5	24.5	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.78	25.78	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.86	25.86	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.8	25.8	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.68	24.68	30	PASS



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Band4	5MHz	16QAM	20375	1RB#0	22.83	25.83	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.83	25.83	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.9	25.9	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.67	24.67	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.52	24.52	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.55	24.55	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.6	24.6	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.51	23.51	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.76	24.76	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.74	24.74	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.74	24.74	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.66	23.66	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.83	24.83	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.81	24.81	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.83	24.83	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.67	23.67	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.39	26.39	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.47	26.47	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.5	26.5	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	23.49	26.49	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.58	26.58	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.57	26.57	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.54	26.54	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.53	26.53	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.59	26.59	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.6	26.6	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.62	26.62	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	23.47	26.47	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.6	25.6	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.7	25.7	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.9	25.9	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.63	24.63	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.95	25.95	30	PASS



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Band4	10MHz	16QAM	20175	1RB#24	22.87	25.87	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.76	25.76	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.64	24.64	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.9	25.9	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.81	25.81	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.87	25.87	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.67	24.67	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.57	24.57	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.64	24.64	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.79	24.79	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.7	23.7	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.86	24.86	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.77	24.77	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.75	24.75	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.66	23.66	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.83	24.83	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.81	24.81	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.8	24.8	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.71	23.71	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.35	26.35	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.56	26.56	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.56	26.56	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	23.44	26.44	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.61	26.61	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.58	26.58	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.59	26.59	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.37	26.37	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.5	26.5	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.59	26.59	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.62	26.62	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	23.59	26.59	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.68	25.68	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.84	25.84	30	PASS



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Band4	15MHz	16QAM	20025	75RB#0	21.66	24.66	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.78	25.78	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.96	25.96	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.81	25.81	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.68	24.68	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.73	25.73	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.88	25.88	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.83	25.83	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.59	24.59	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.63	24.63	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.8	24.8	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.74	24.74	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.67	23.67	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.8	24.8	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.89	24.89	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.84	24.84	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.73	23.73	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.7	24.7	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.78	24.78	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.75	24.75	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.59	23.59	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.41	26.41	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.55	26.55	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.61	26.61	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	23.64	26.64	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.58	26.58	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.58	26.58	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.61	26.61	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	23.18	26.18	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.49	26.49	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.56	26.56	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.63	26.63	30	PASS



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Band4	20MHz	QPSK	20300	100RB#0	23.56	26.56	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.67	25.67	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.83	25.83	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.86	25.86	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.63	24.63	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.92	25.92	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.91	25.91	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.94	25.94	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.69	24.69	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.71	25.71	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.86	25.86	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.93	25.93	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.62	24.62	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.65	24.65	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.77	24.77	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.82	24.82	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.71	23.71	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.76	24.76	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.88	24.88	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.81	24.81	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.73	23.73	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.64	24.64	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.81	24.81	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.88	24.88	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.61	23.61	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	5.28	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.46	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.60	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.18	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.34	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.44	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.64	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.72	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.82	13	PASS



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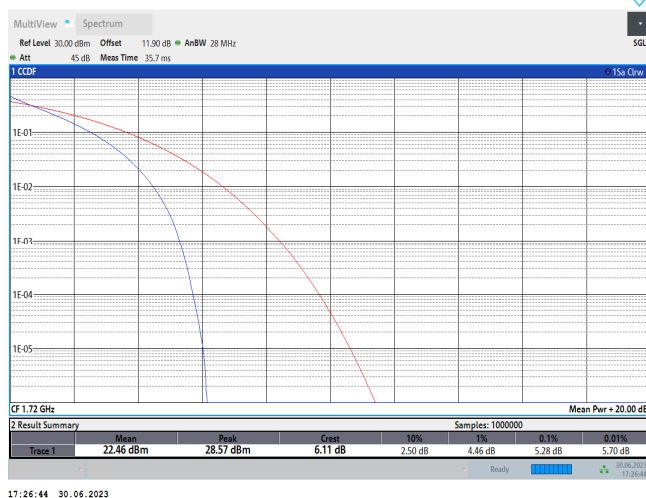
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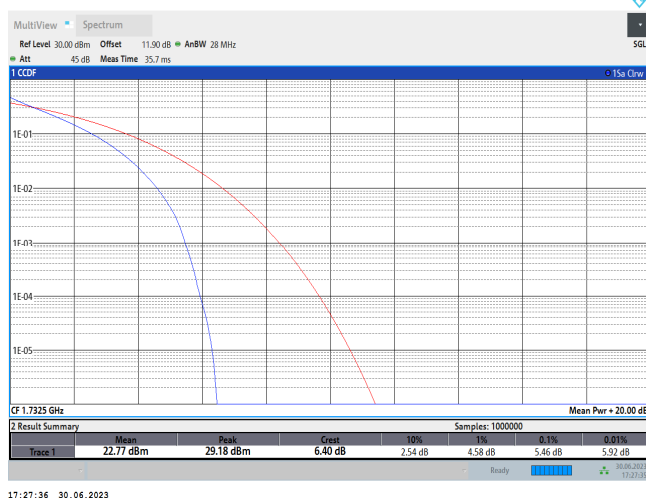
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Test Graphs

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



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



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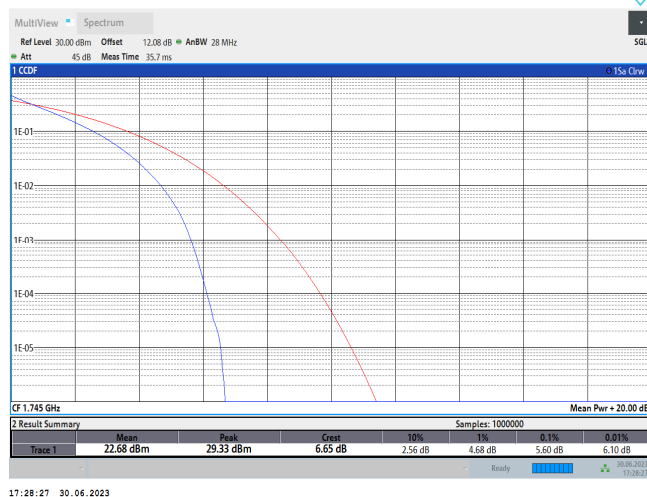
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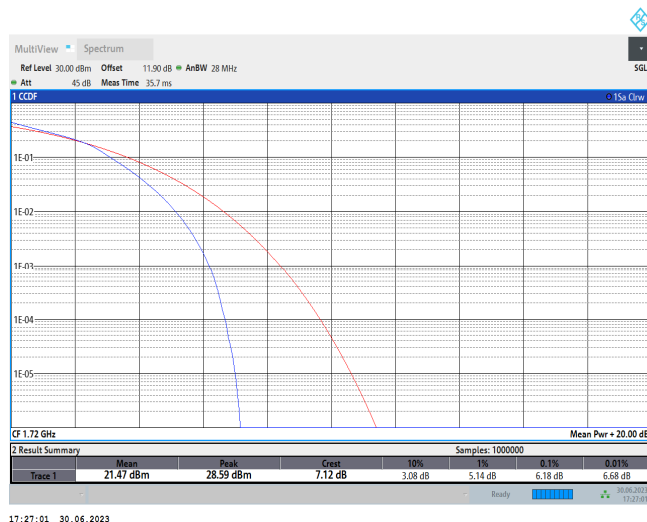
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Band4-20MHz-QPSK-20300-100RB#0



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



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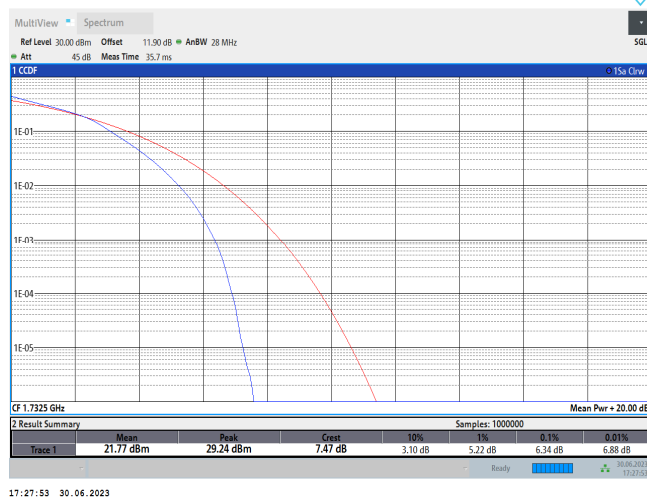
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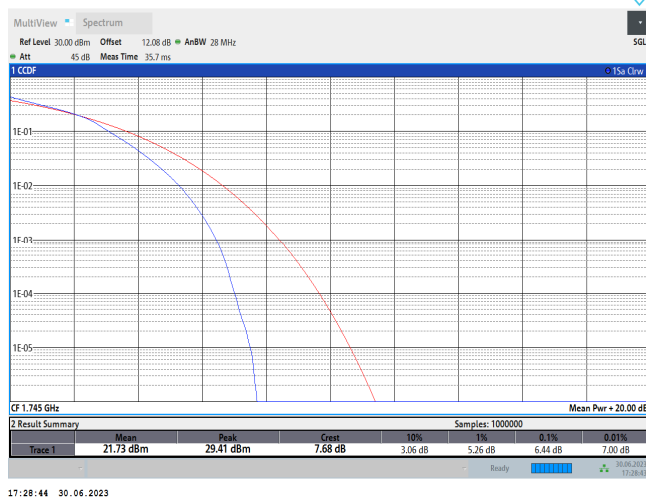
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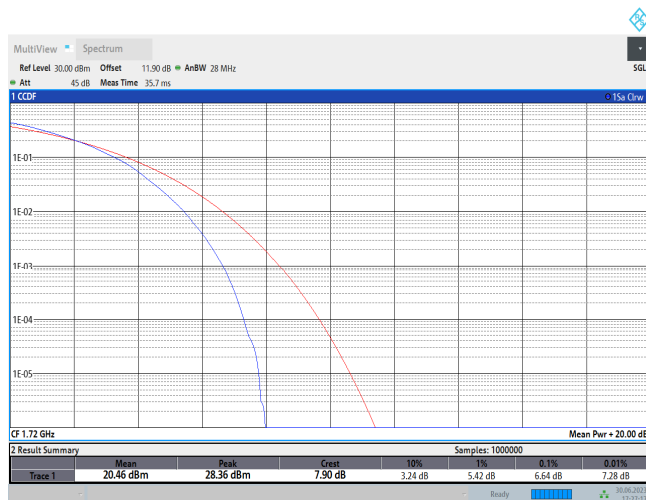
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Band4-20MHz-64QAM-20050-100RB#0



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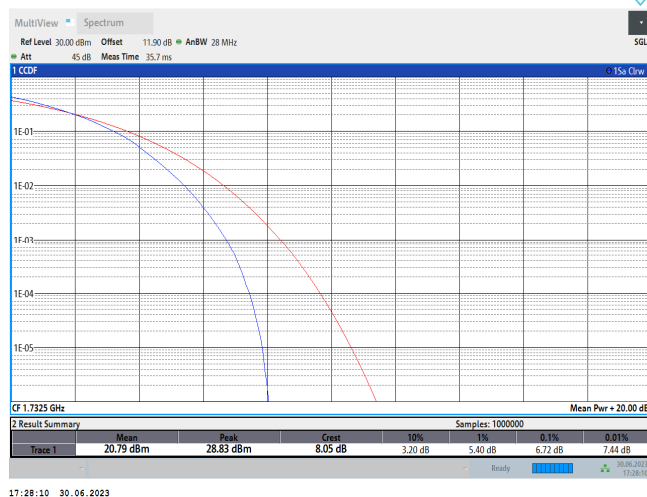
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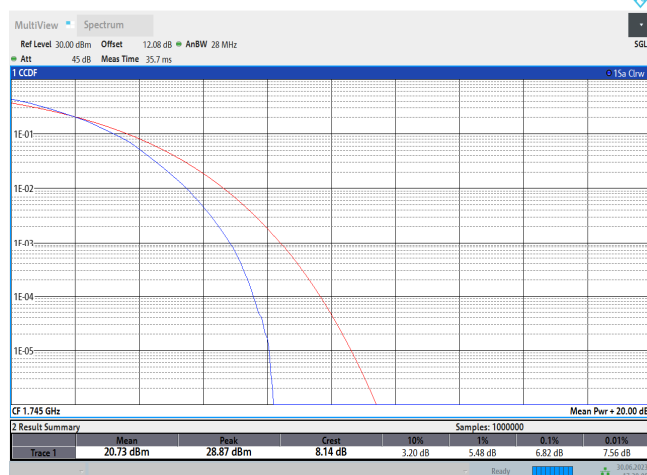
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Band4-20MHz-64QAM-20300-100RB#0



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Modulation Characteristics

Test Result

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



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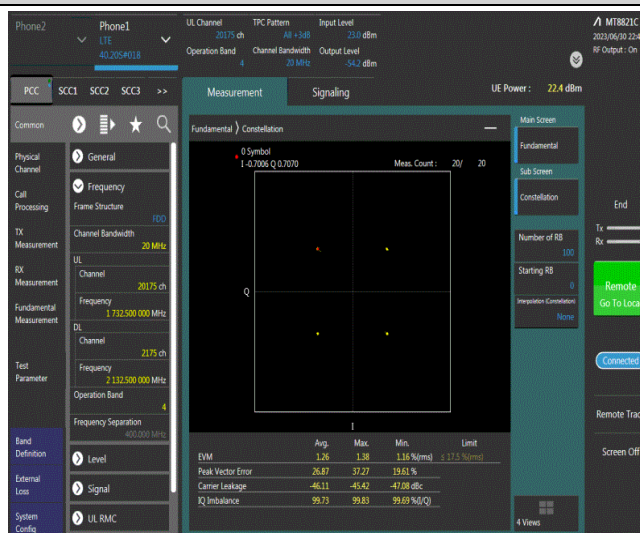
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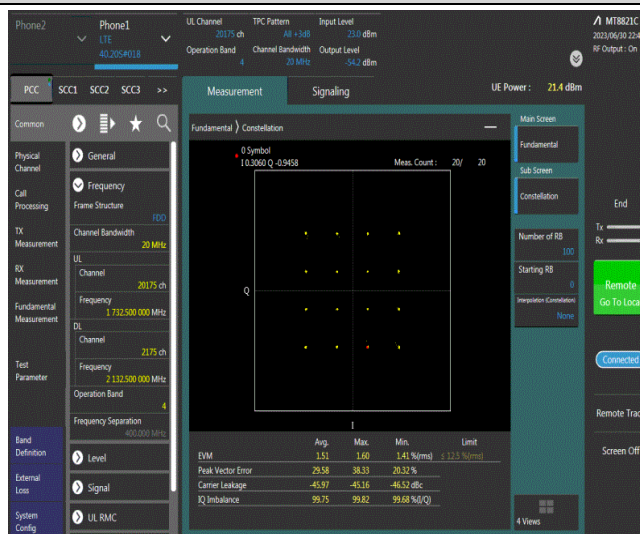
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Test Graphs

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

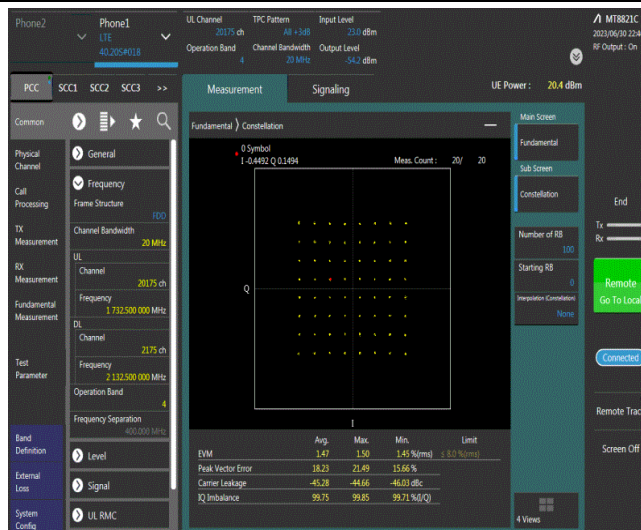


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.091	1.23	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.085	1.23	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.085	1.23	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.09	1.24	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.091	1.24	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.694	2.98	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.694	2.98	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.696	2.98	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.69	2.99	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.688	2.99	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.688	2.98	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.692	2.98	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.692	2.96	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.689	2.96	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.475	4.89	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.47	4.89	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.469	4.90	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.47	4.90	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.468	4.94	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.467	4.92	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.481	4.91	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.479	4.93	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.483	4.92	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.926	9.66	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.94	9.60	PASS



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Band4	10MHz	QPSK	20350	50RB#0	8.927	9.68	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.924	9.64	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.925	9.64	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.921	9.64	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.941	9.64	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.935	9.64	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.935	9.72	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.463	14.79	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.451	14.79	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.475	14.76	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.442	14.73	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.431	14.73	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.452	14.73	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.429	14.79	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.425	14.82	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.442	14.76	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.908	19.48	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.892	19.36	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.921	19.40	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.873	19.40	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.894	19.36	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.891	19.40	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.883	19.28	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.868	19.48	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.884	19.40	PASS



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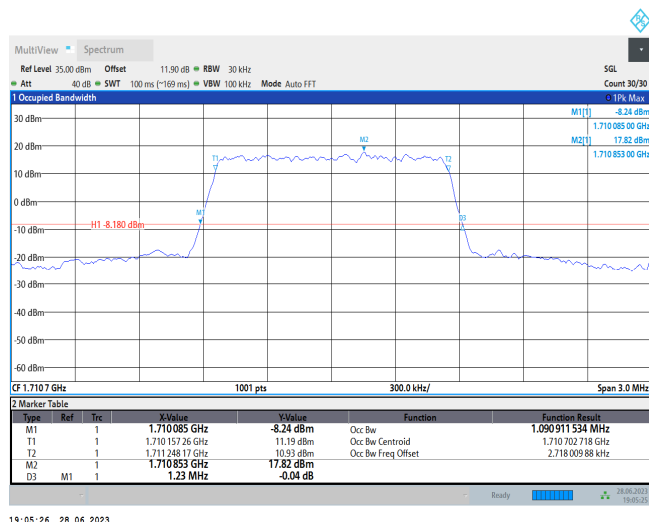
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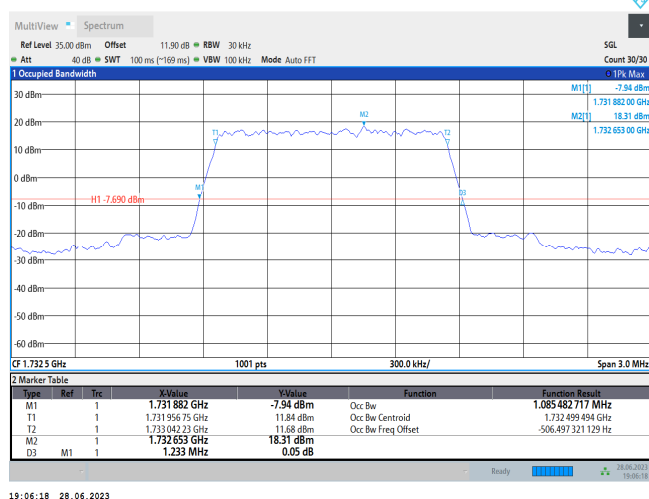
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Test Graphs

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



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

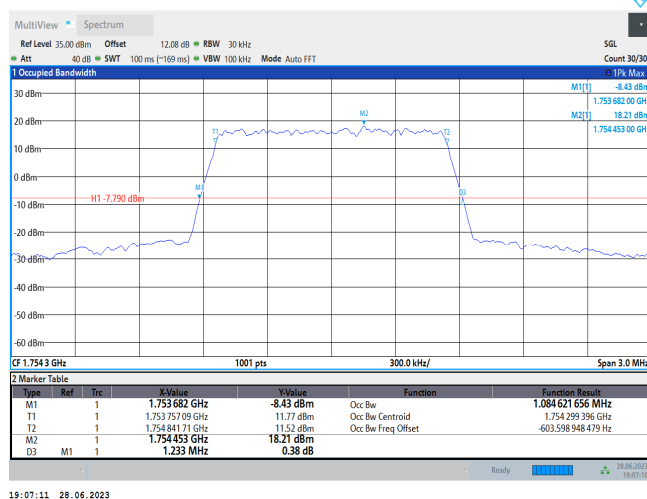


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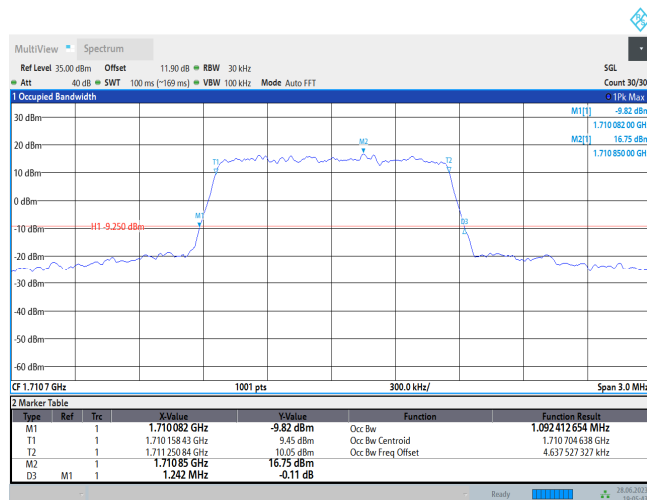
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Band4-1.4MHz-16QAM-19957-6RB#0



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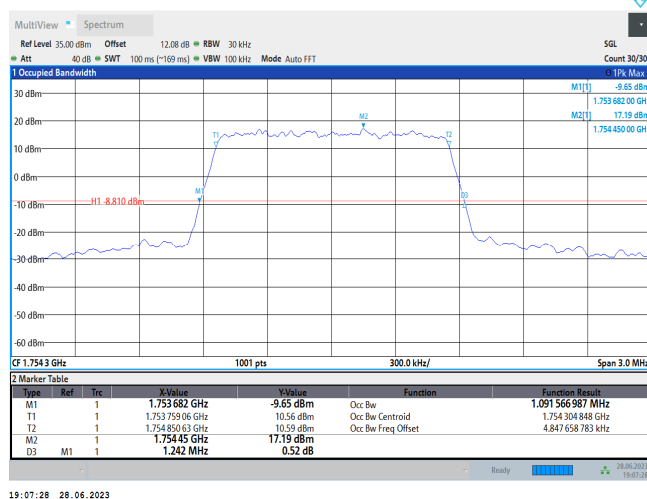
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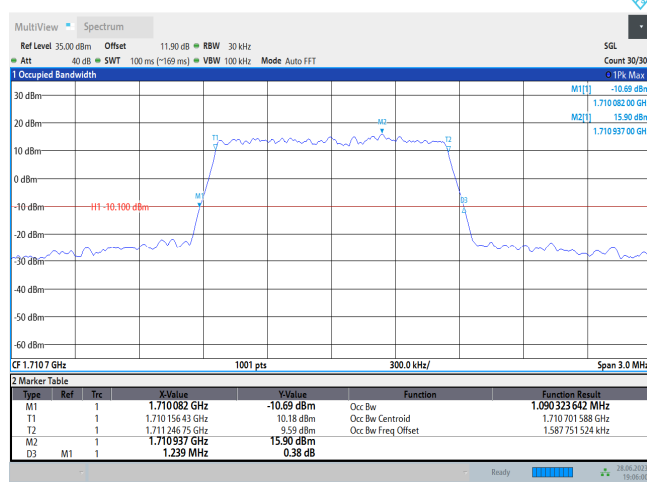
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Band4-1.4MHz-64QAM-19957-6RB#0



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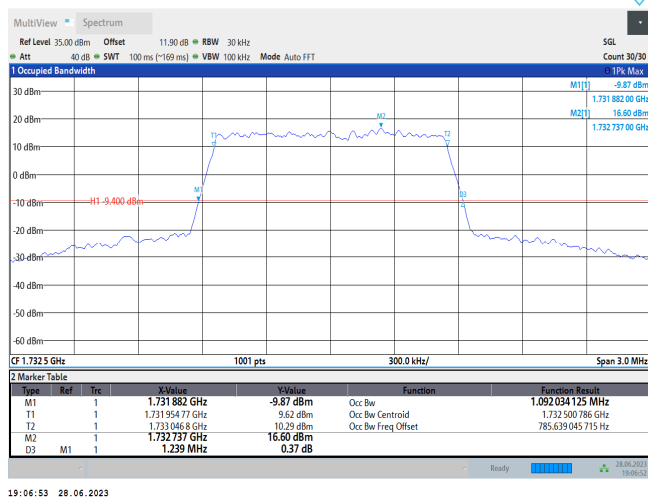
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Band4-1.4MHz-64QAM-20175-6RB#0



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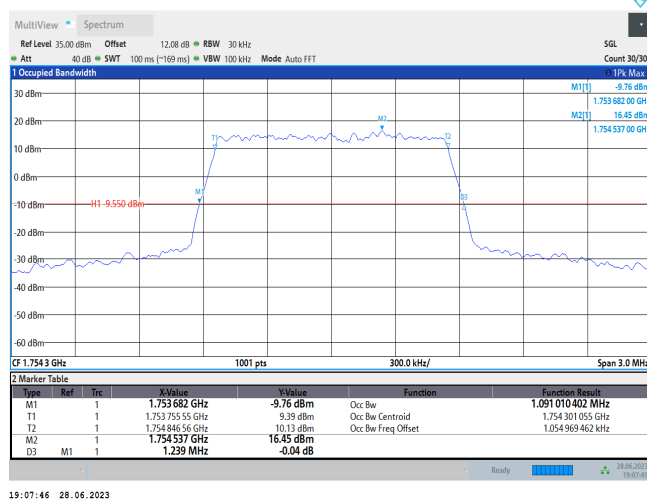
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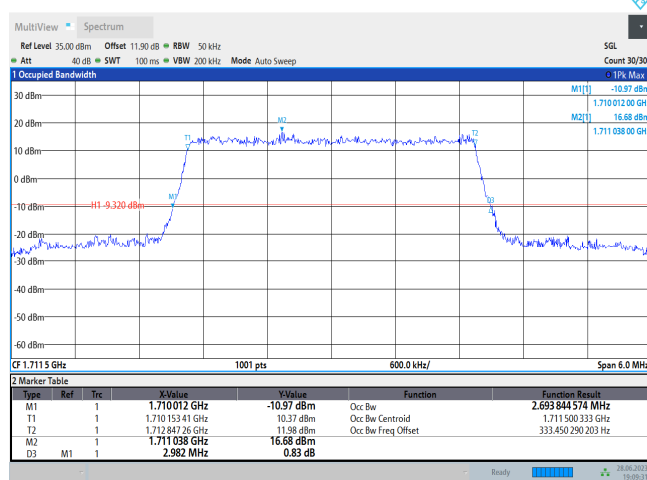
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Band4-3MHz-QPSK-19965-15RB#0



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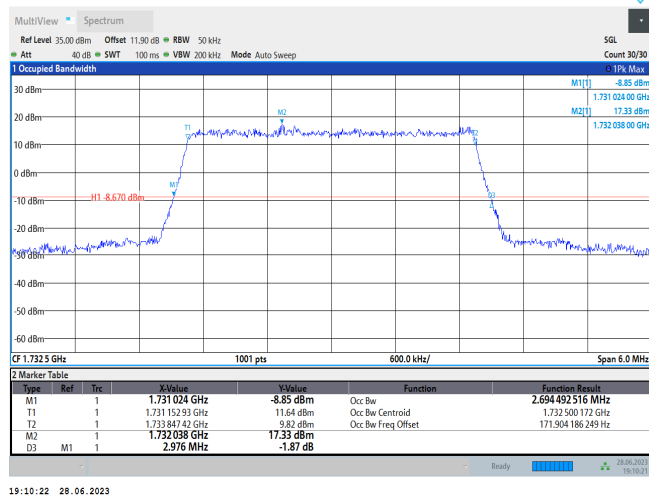
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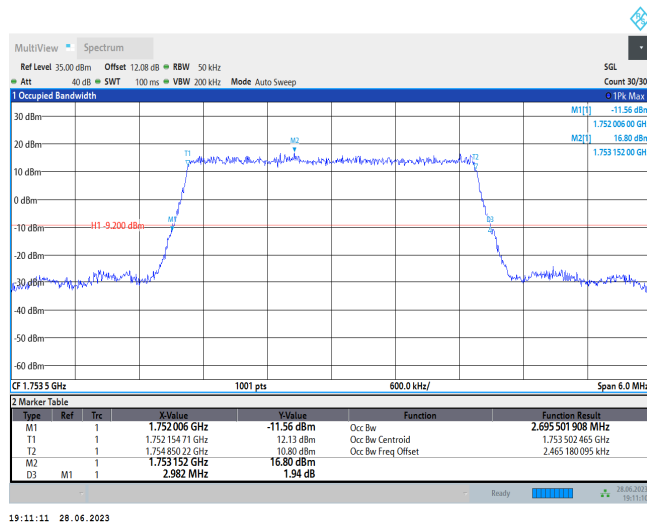
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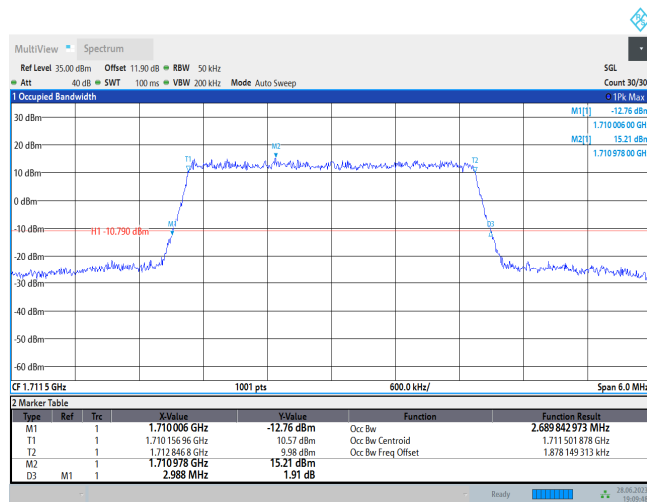
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Band4-3MHz-QPSK-20385-15RB#0



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



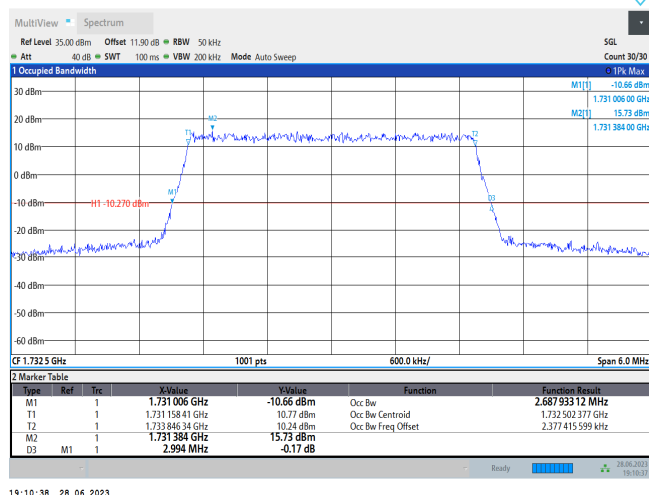
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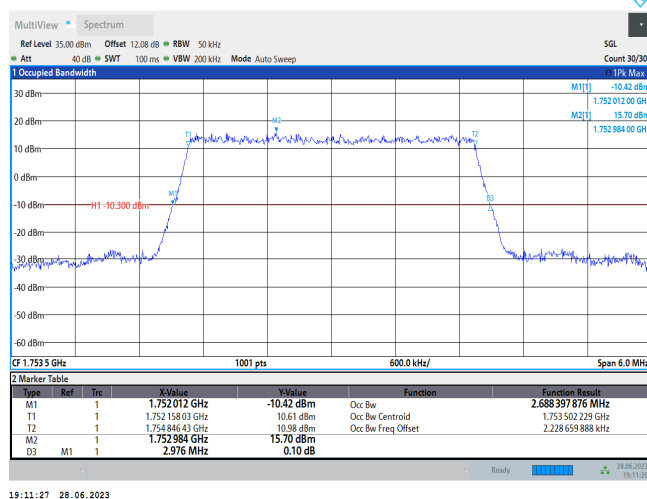


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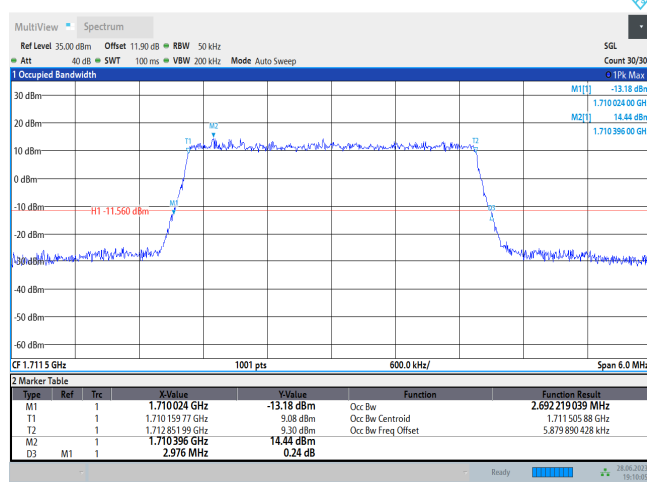
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Band4-3MHz-16QAM-20385-15RB#0



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



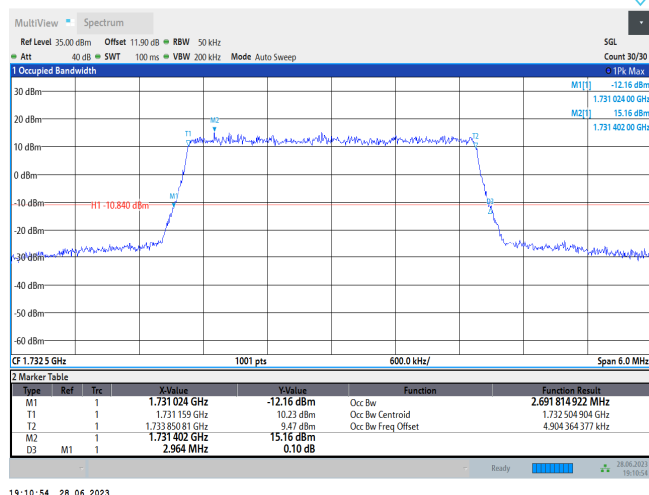
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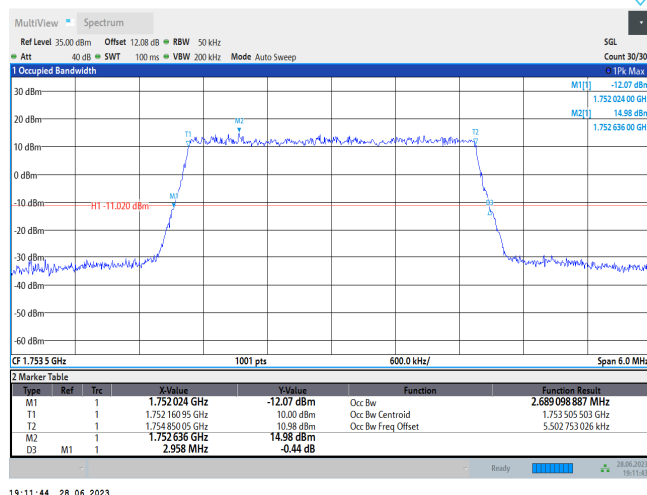
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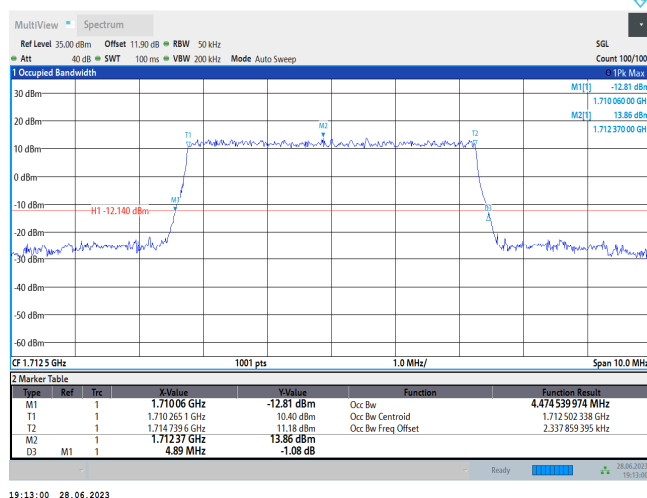
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Band4-3MHz-64QAM-20385-15RB#0



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



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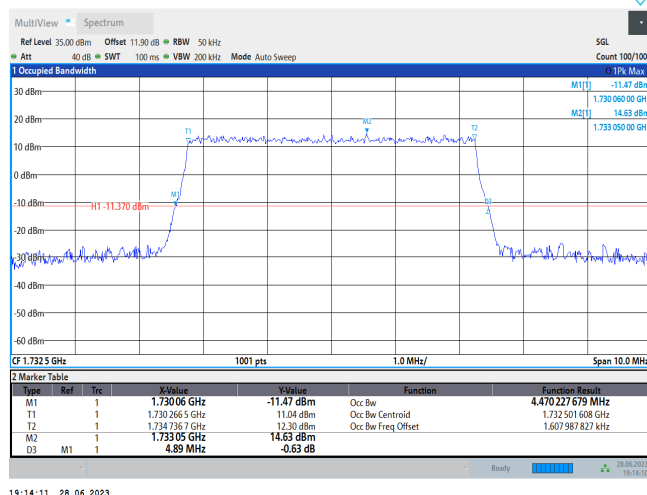
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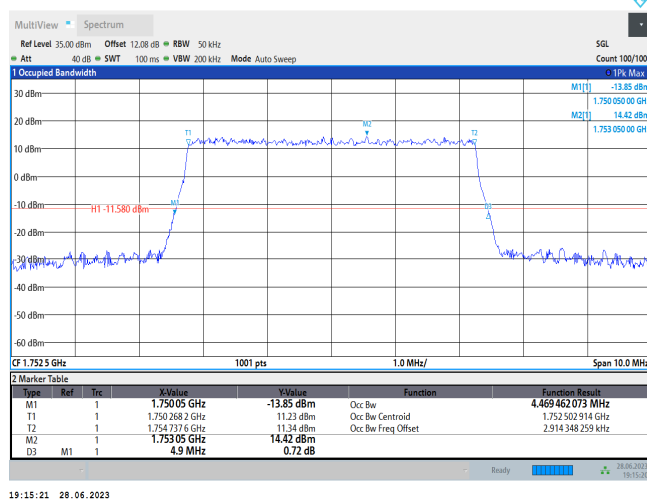
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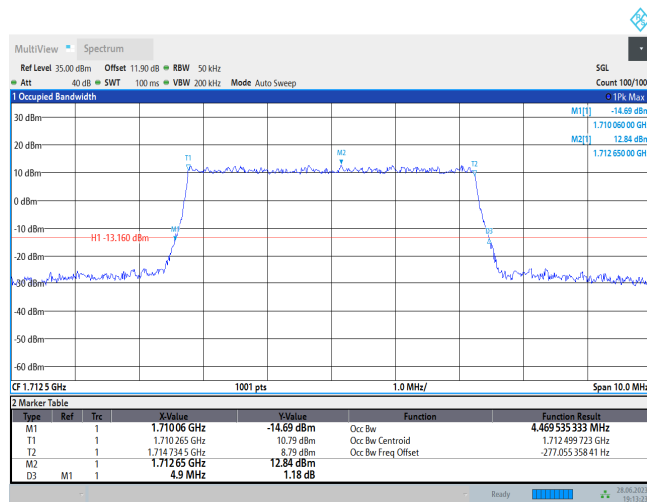
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Band4-5MHz-QPSK-20375-25RB#0



19:15:21 28.06.2023

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



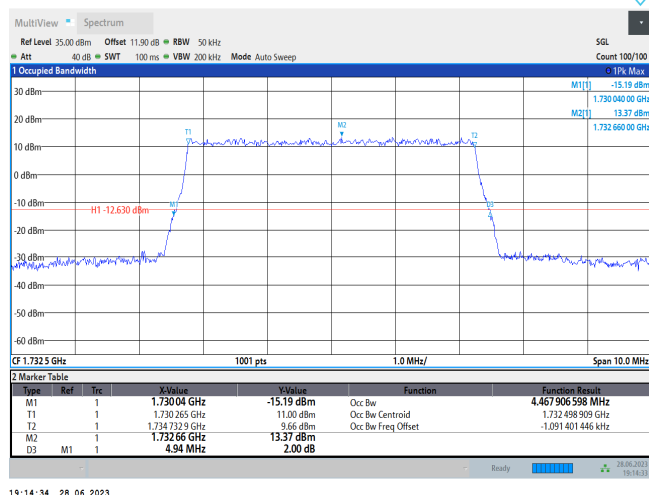
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Band4-5MHz-16QAM-20175-25RB#0



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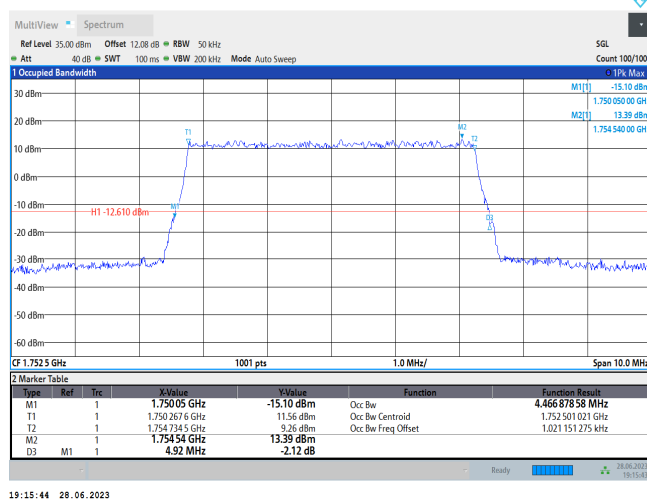
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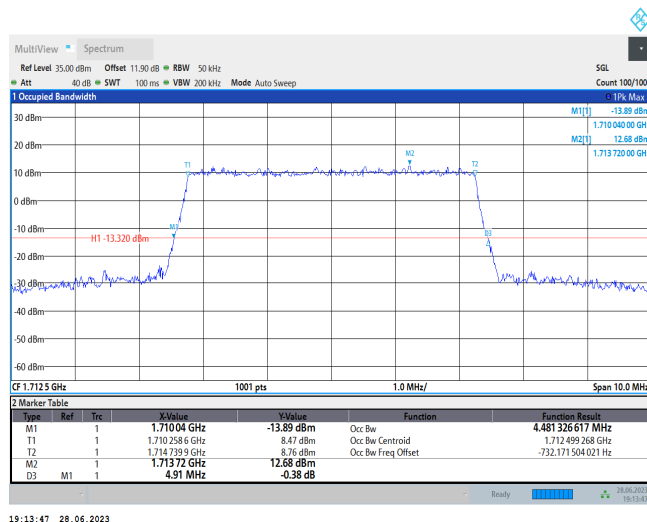
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Band4-5MHz-64QAM-19975-25RB#0

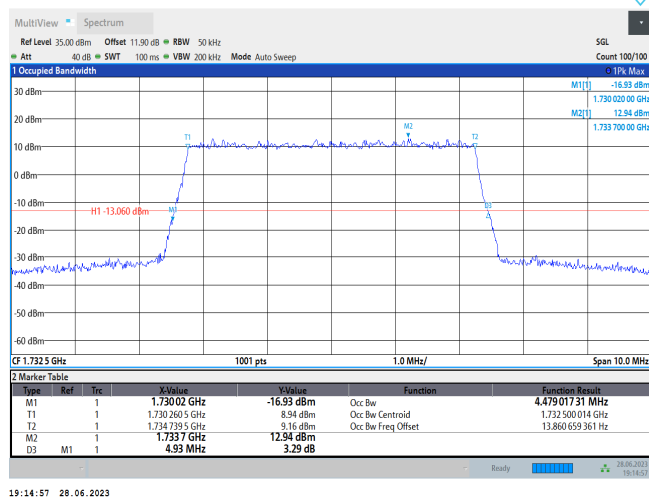


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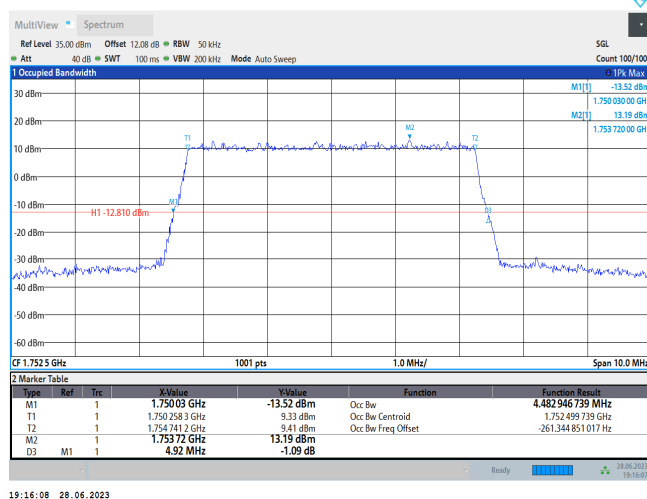
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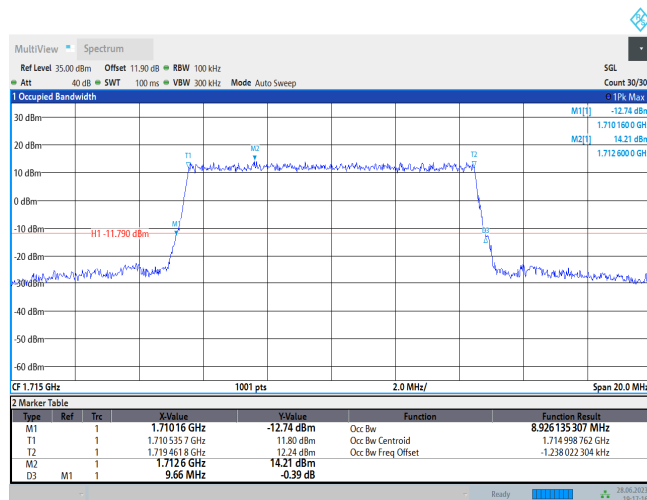
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Band4-5MHz-64QAM-20375-25RB#0



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



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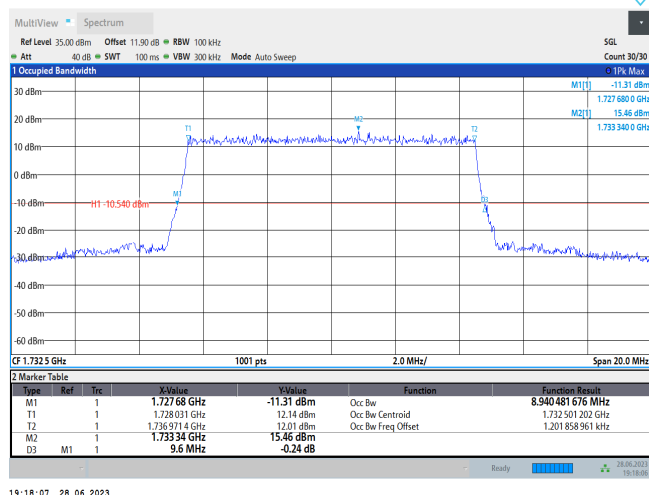


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Band4-10MHz-QPSK-20175-50RB#0



19:18:07 28.06.2023



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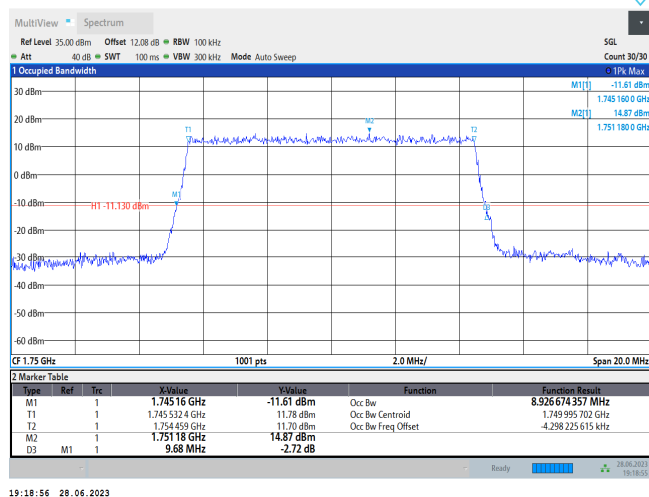
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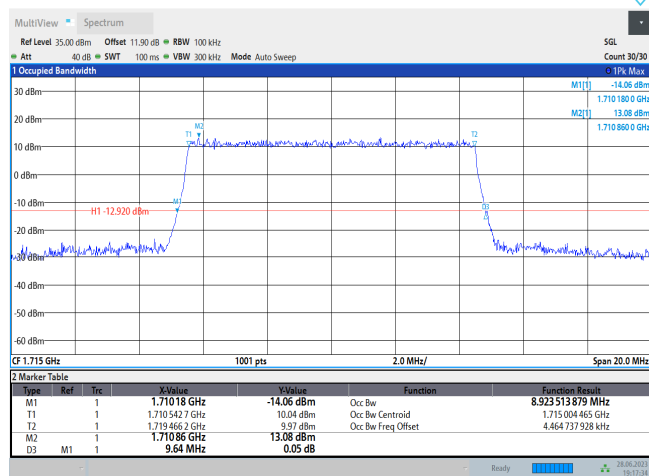
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Band4-10MHz-QPSK-20350-50RB#0



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



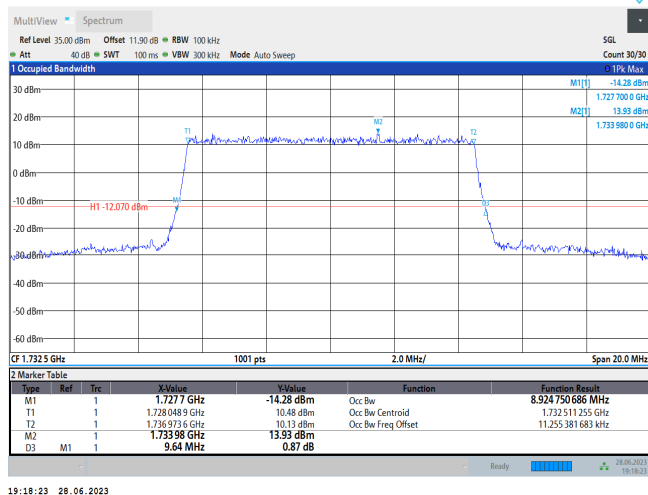
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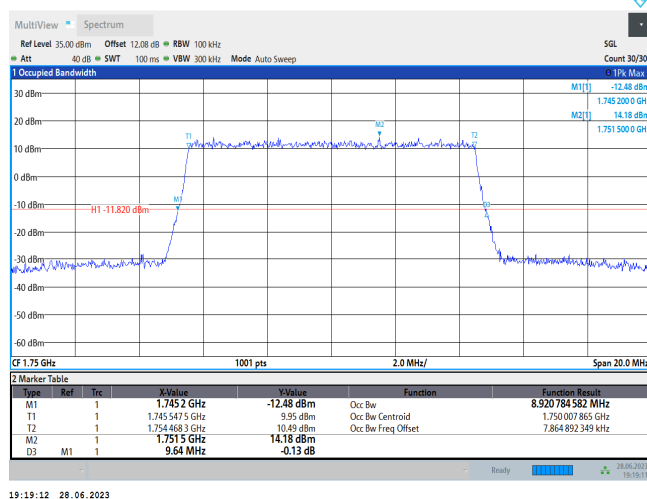
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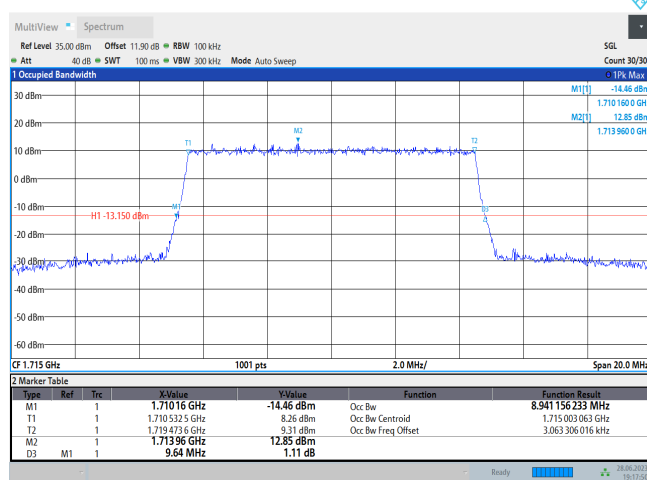
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Band4-10MHz-64QAM-20000-50RB#0



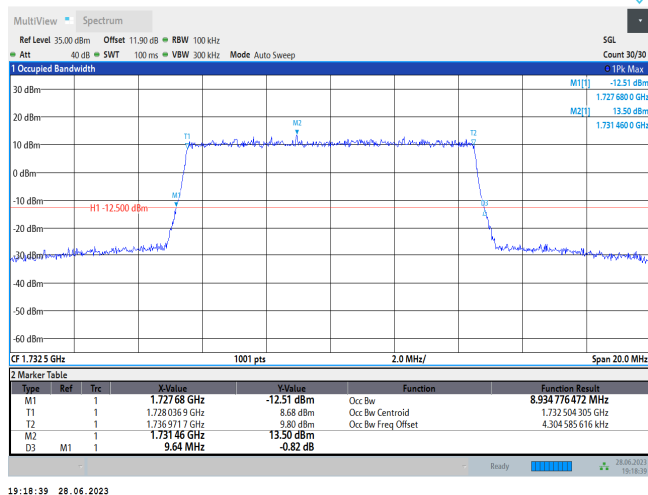
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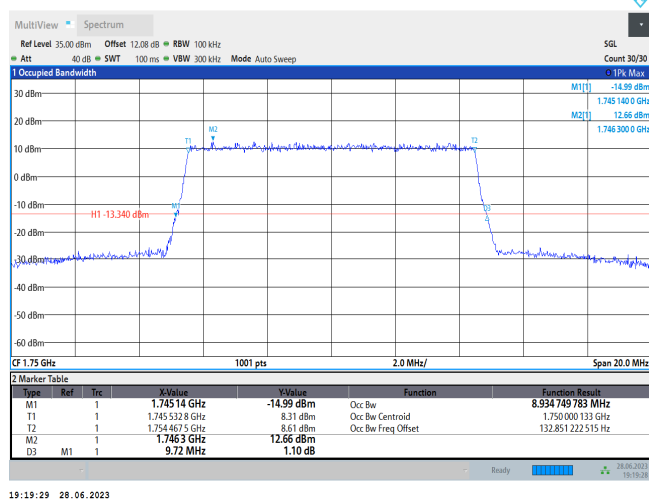
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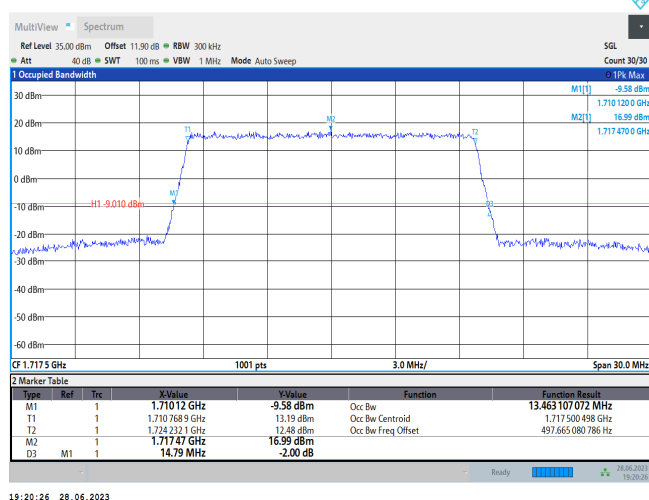
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Band4-10MHz-64QAM-20350-50RB#0



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

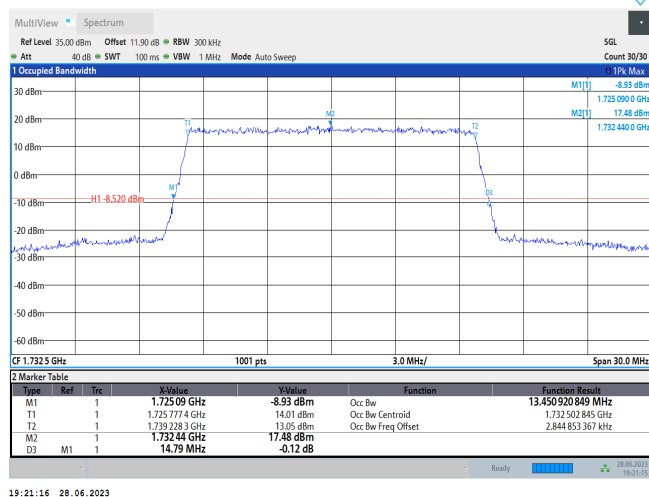


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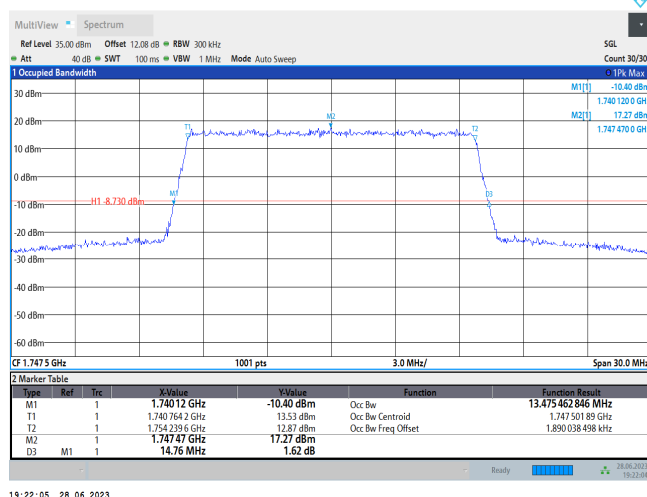


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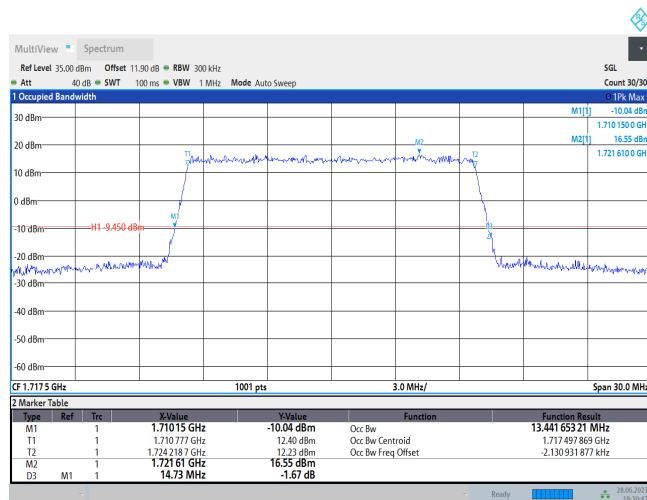
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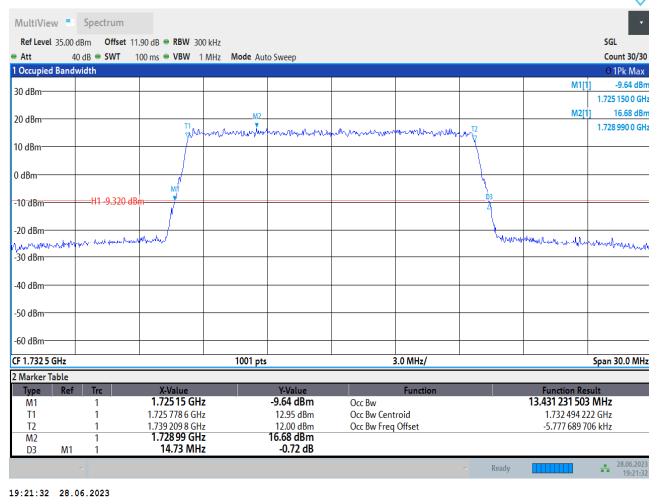
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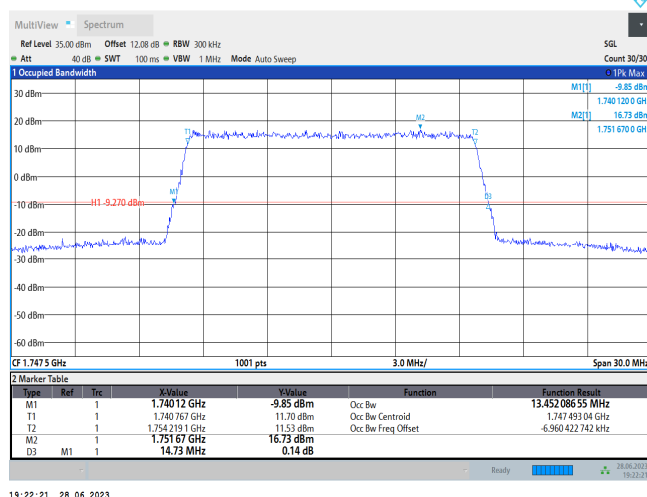


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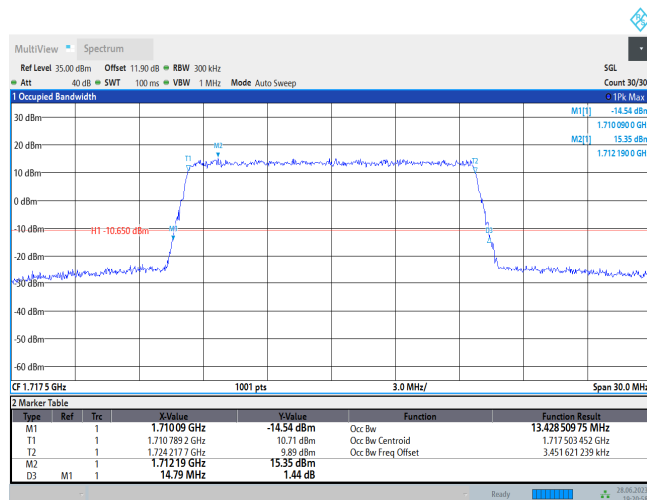
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Band4-15MHz-64QAM-20025-75RB#0



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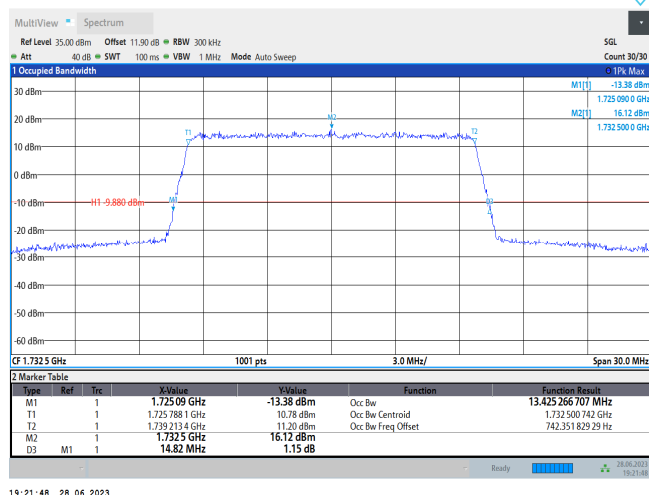
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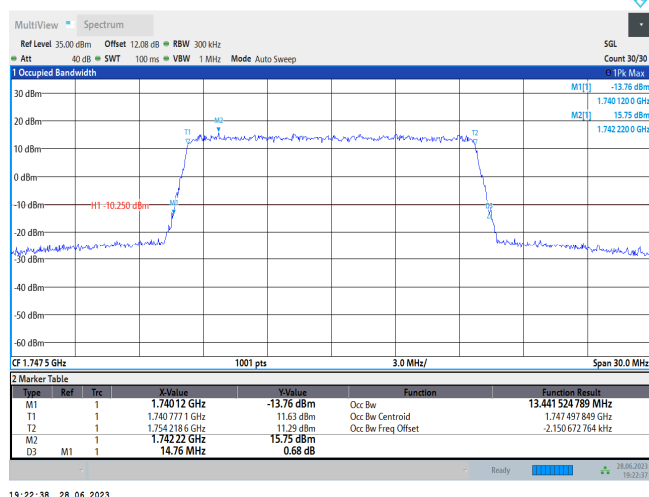
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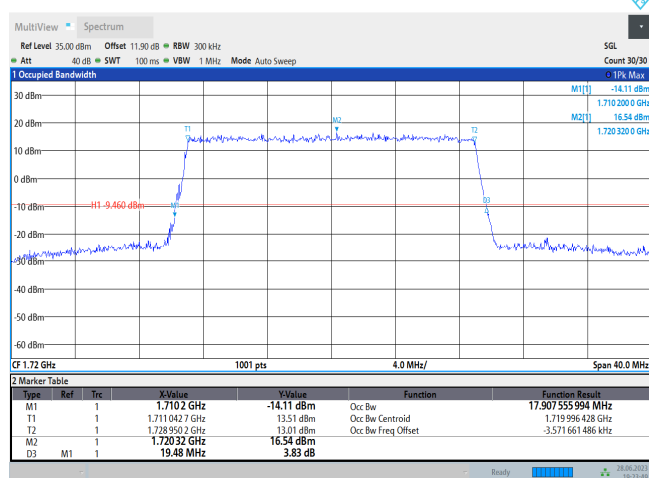
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Band4-15MHz-64QAM-20325-75RB#0



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



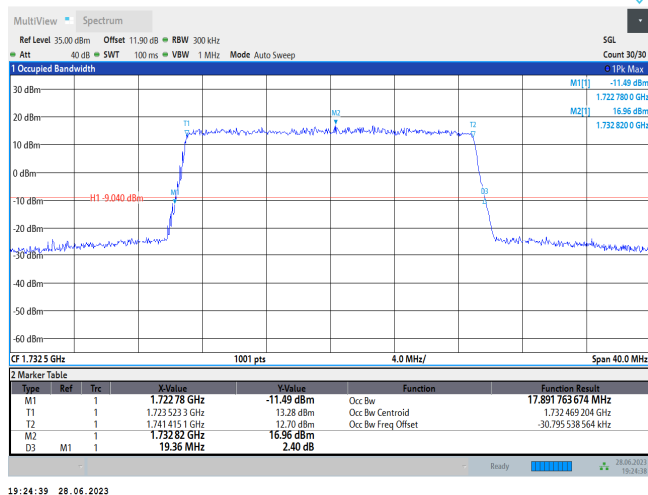
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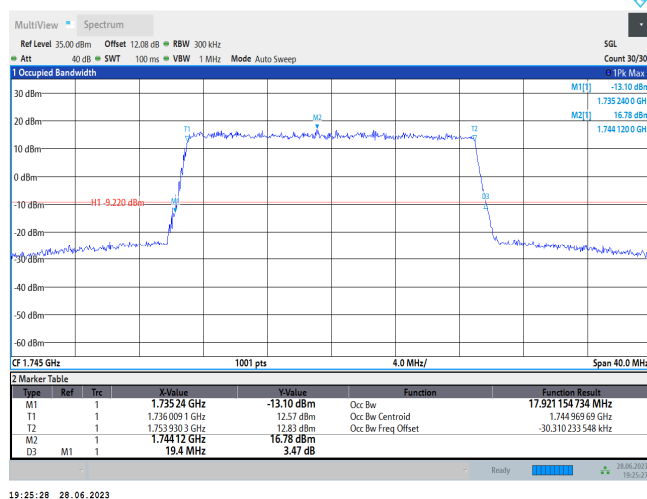
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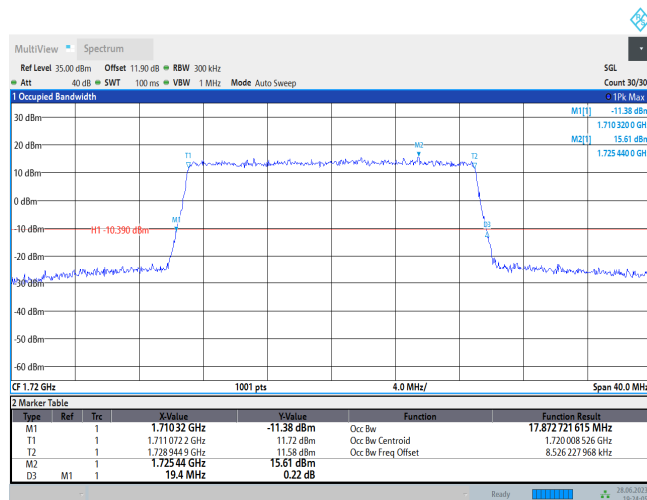
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Band4-20MHz-16QAM-20050-100RB#0



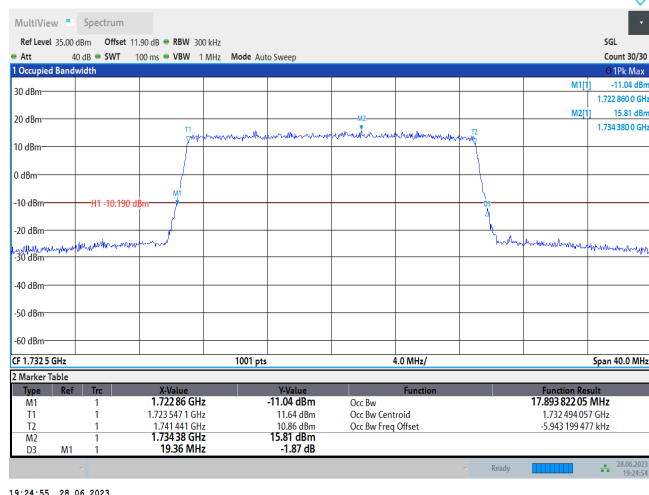
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Band4-20MHz-16QAM-20175-100RB#0



19:24:55 28.06.2023



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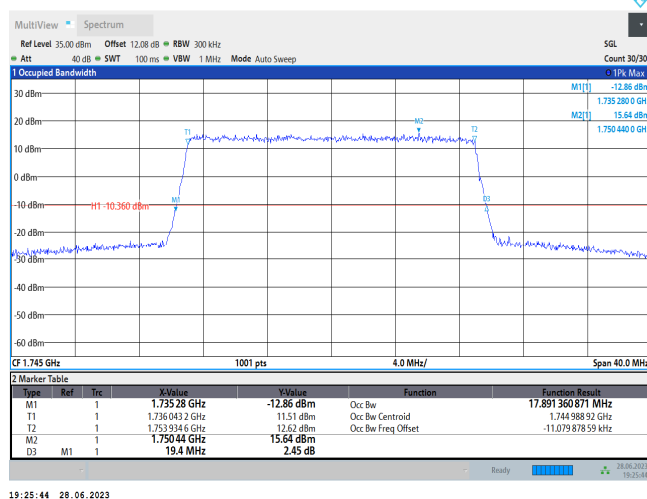
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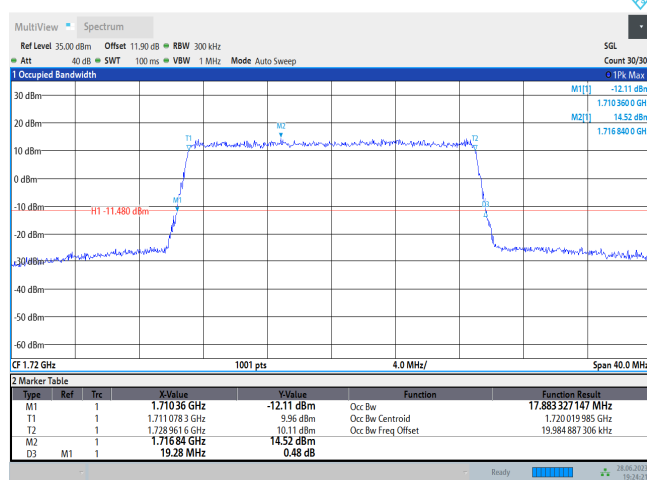
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Band4-20MHz-16QAM-20300-100RB#0



19:25:44 28.06.2023

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



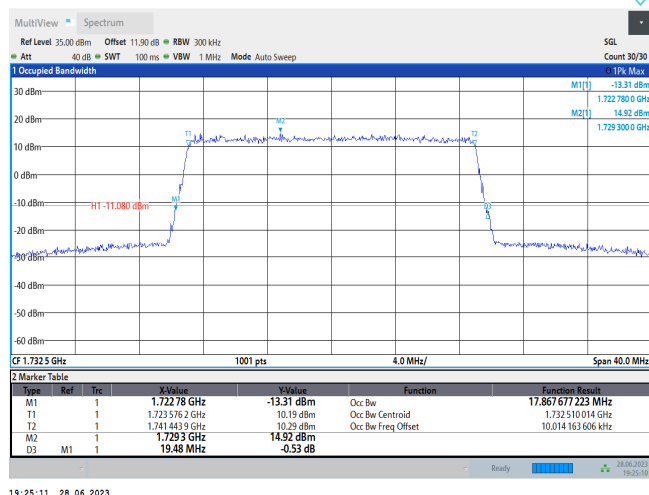
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Band4-20MHz-64QAM-20175-100RB#0

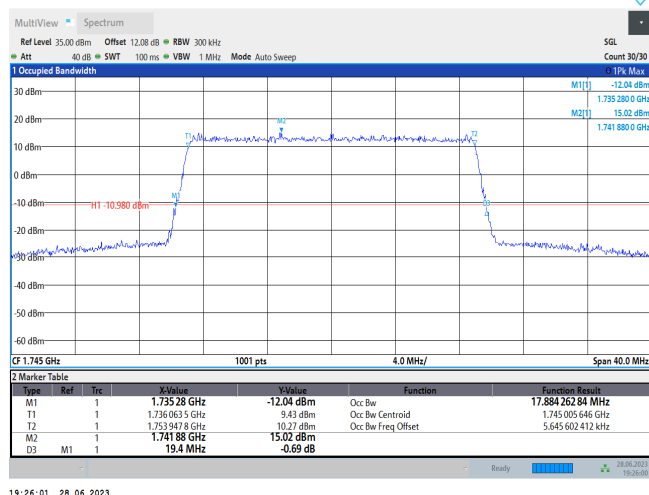


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Band4-20MHz-64QAM-20300-100RB#0



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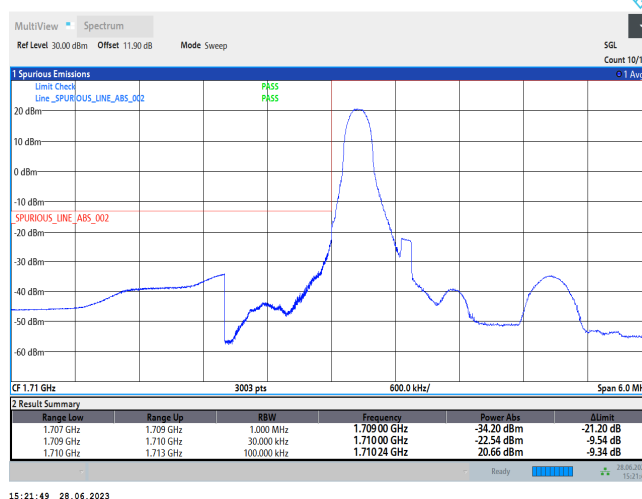
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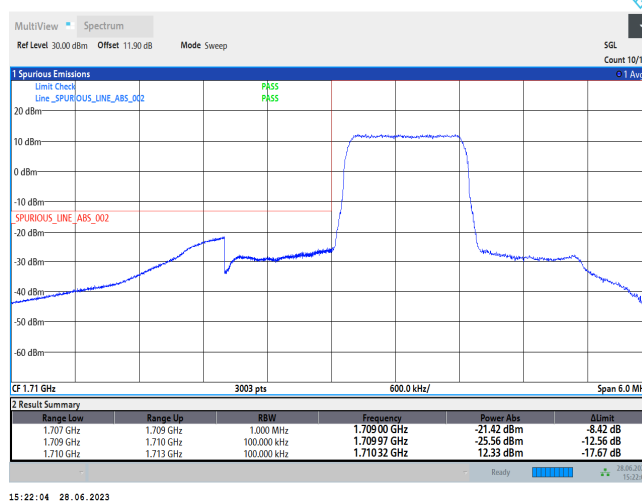
Band Edge

Test Graphs

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



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

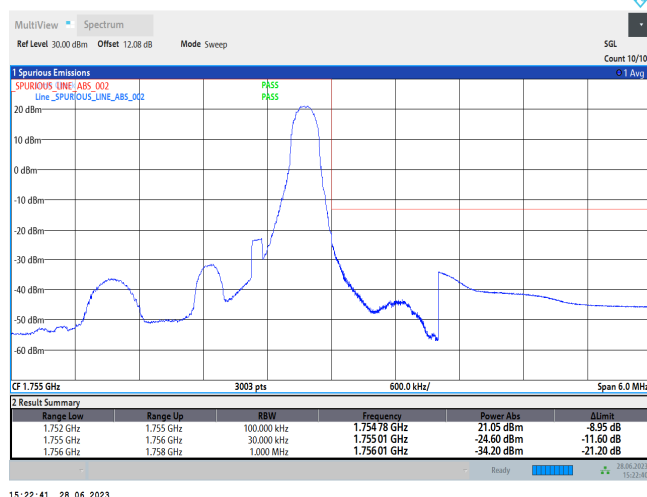


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Band4-1.4MHz-QPSK-20393-1RB#5



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



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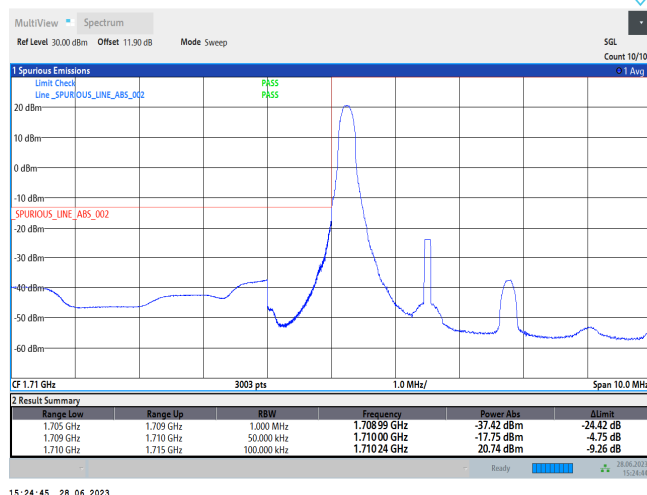
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Band4-3MHz-QPSK-19965-1RB#0



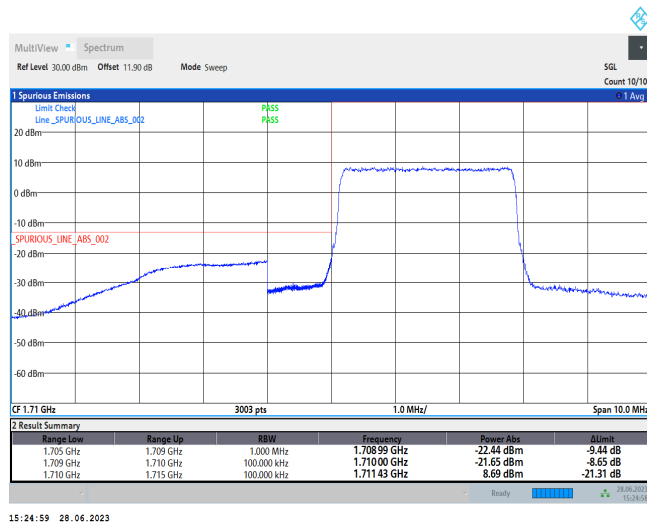
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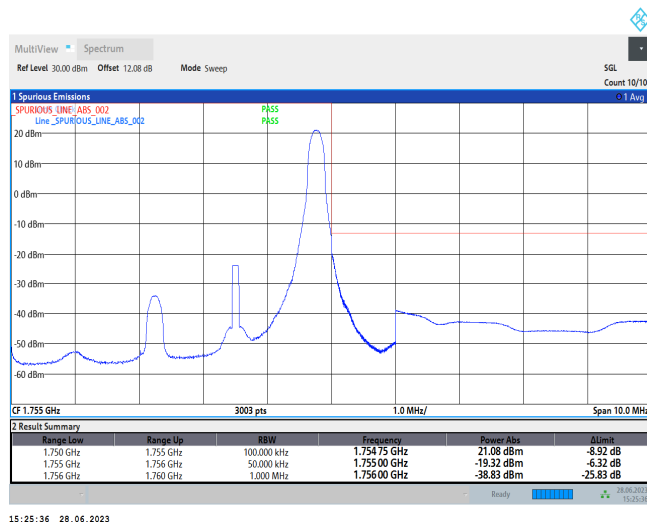
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Band4-3MHz-QPSK-19965-15RB#0



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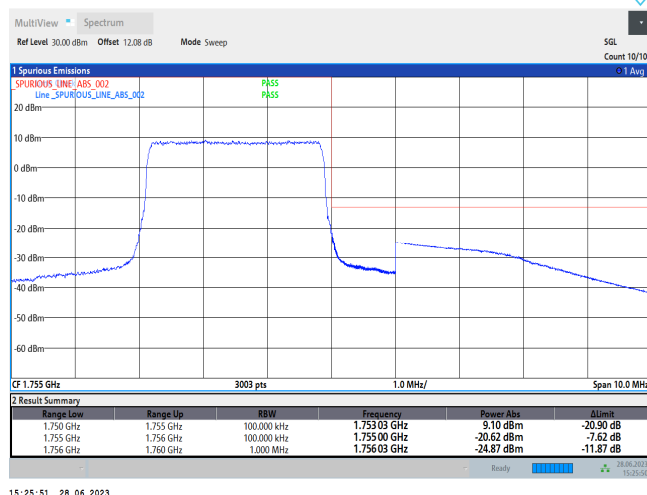


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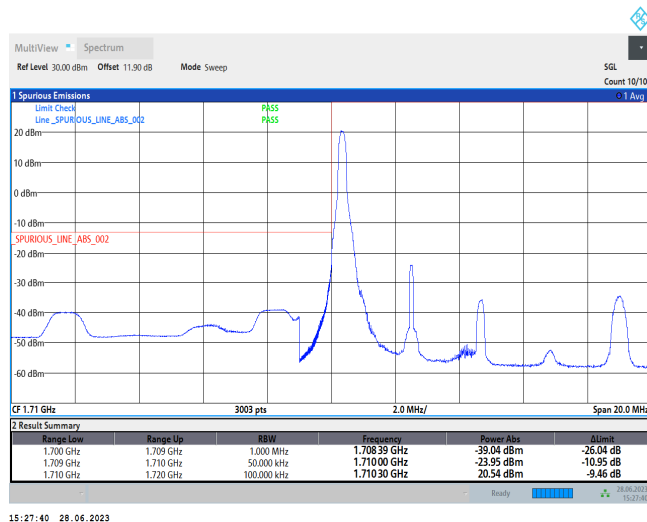


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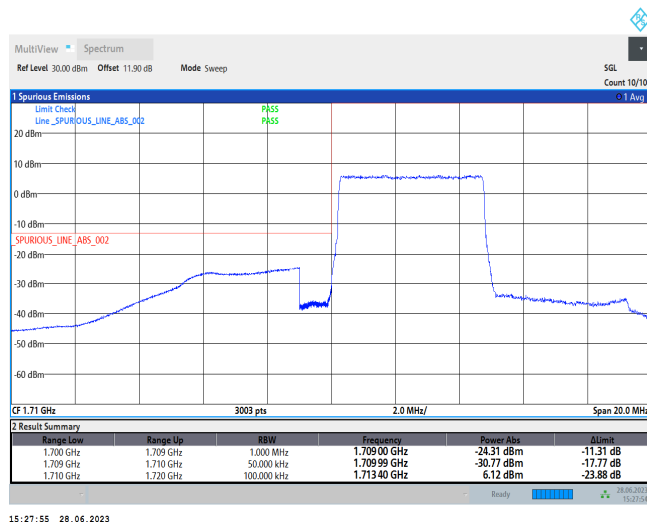
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Band4-5MHz-QPSK-19975-1RB#0



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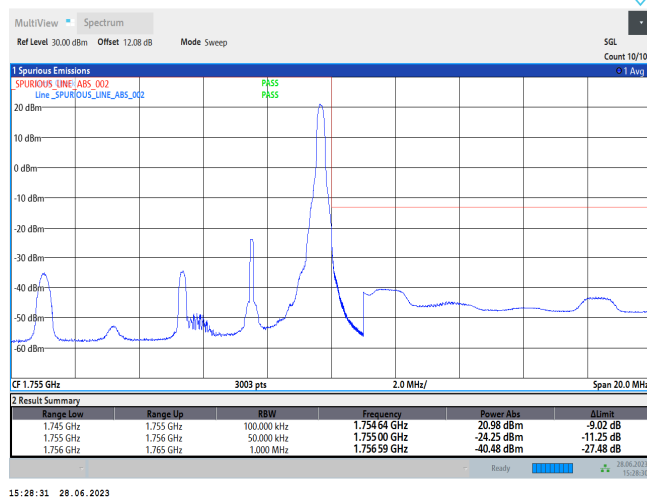


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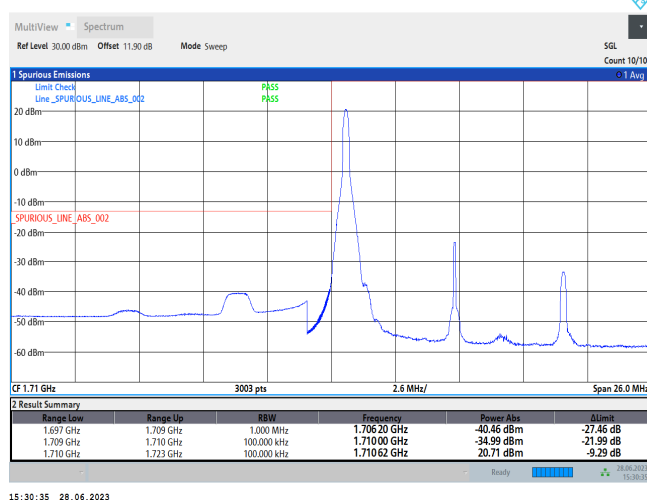
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Band4-5MHz-QPSK-20375-25RB#0



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



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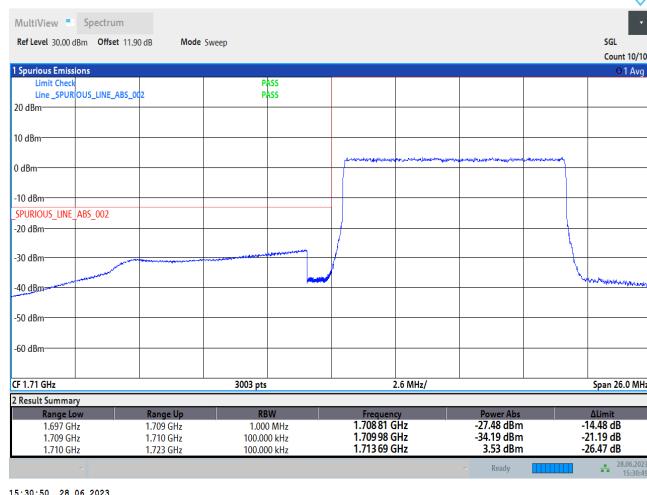
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Band4-10MHz-QPSK-20000-50RB#0

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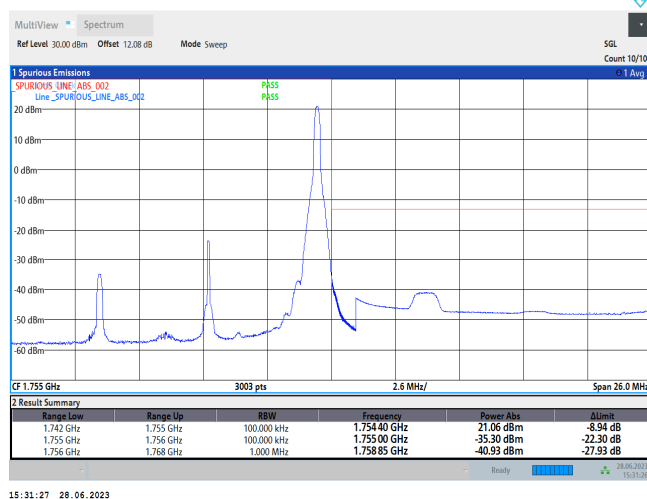
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Band4-10MHz-QPSK-20350-1RB#49



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

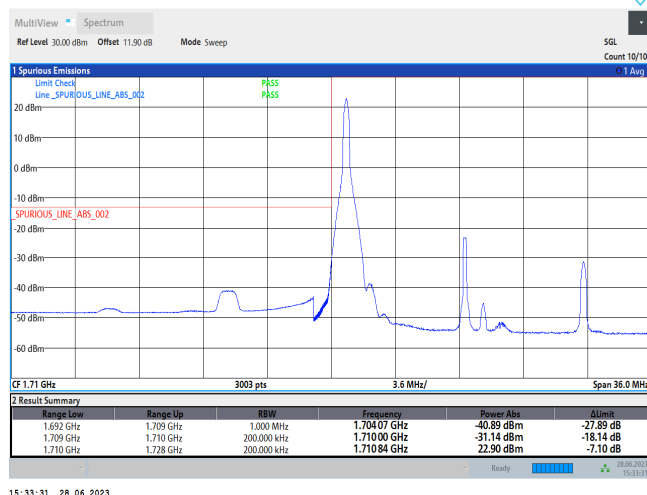


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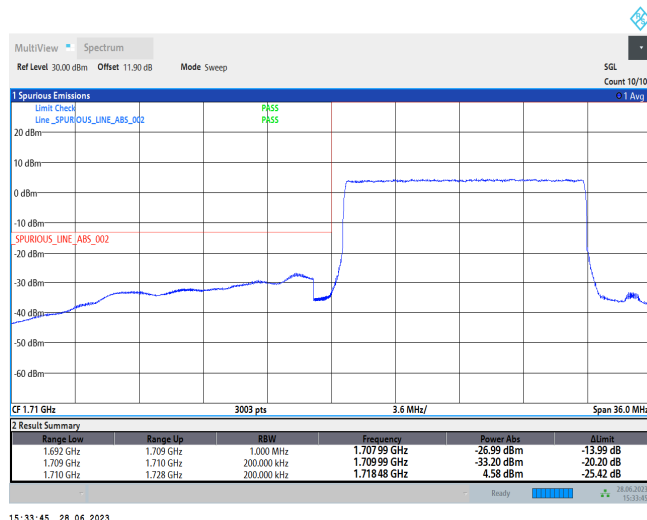
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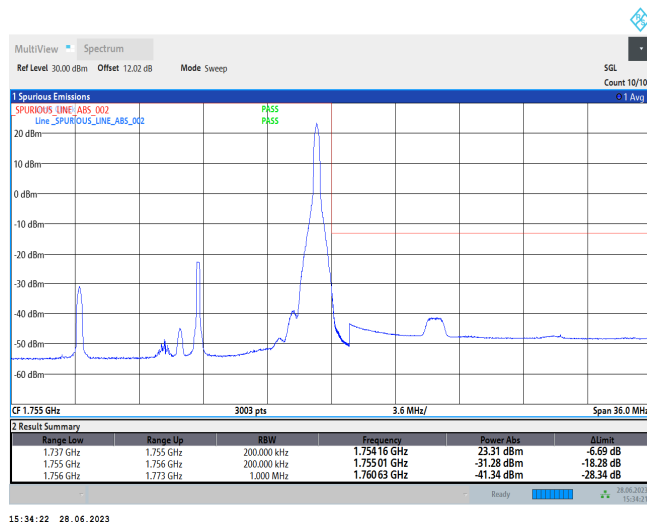
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Band4-15MHz-QPSK-20025-75RB#0



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



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



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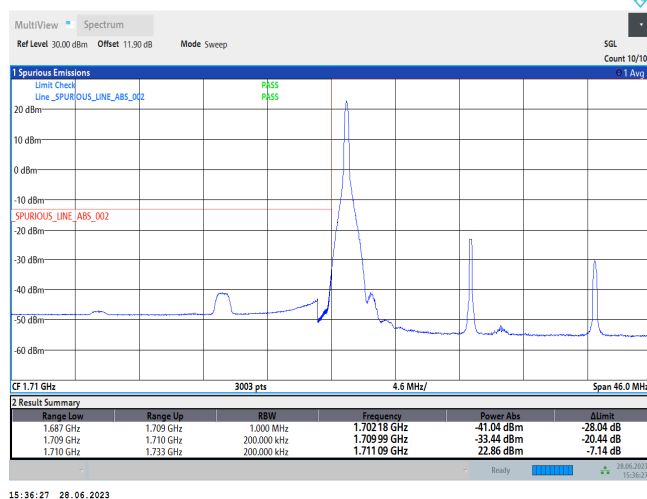
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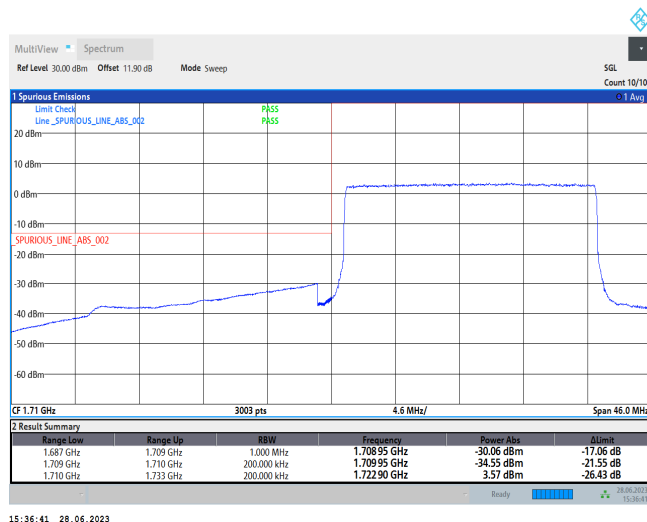
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Band4-20MHz-QPSK-20050-1RB#0



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



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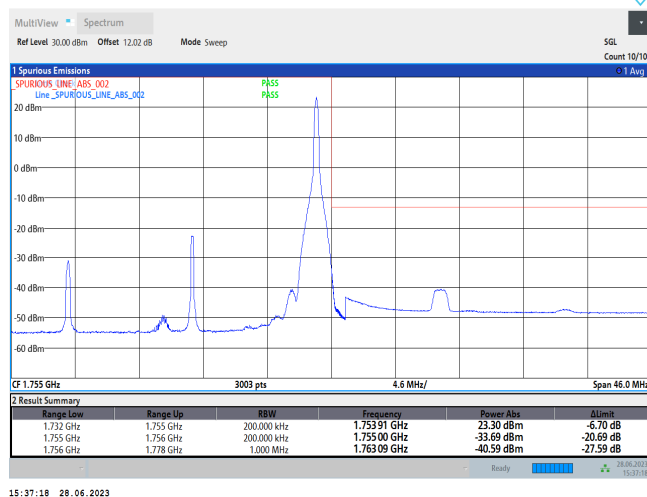
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Band4-20MHz-QPSK-20300-1RB#99



15:37:18 28.06.2023

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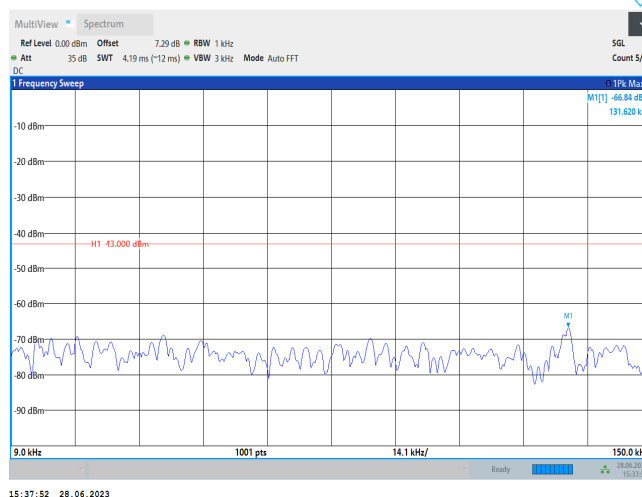
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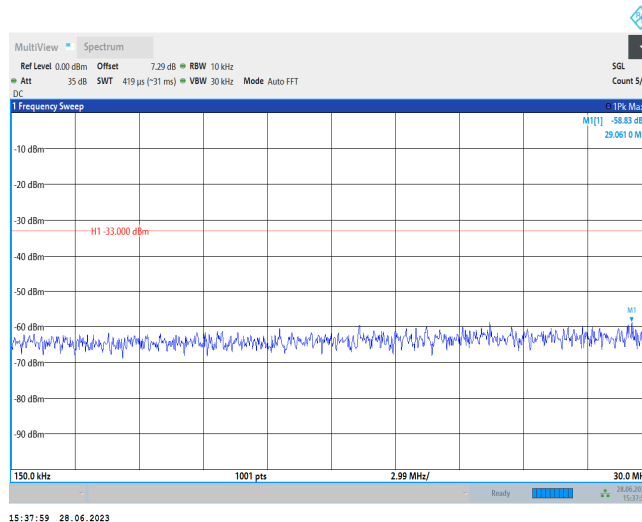
Conducted Spurious Emission

Test Graphs

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



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



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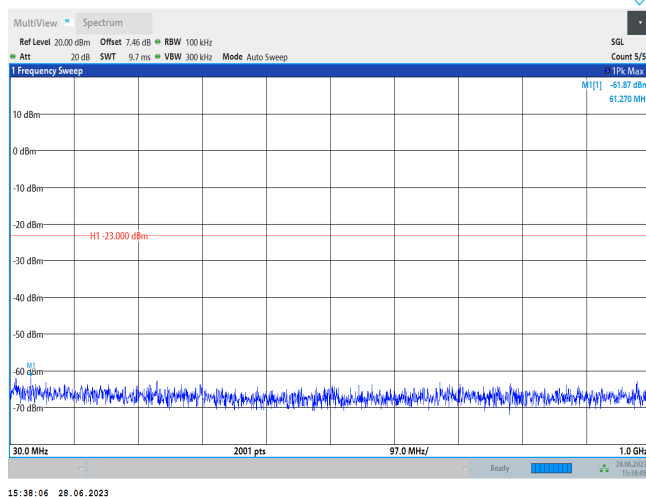
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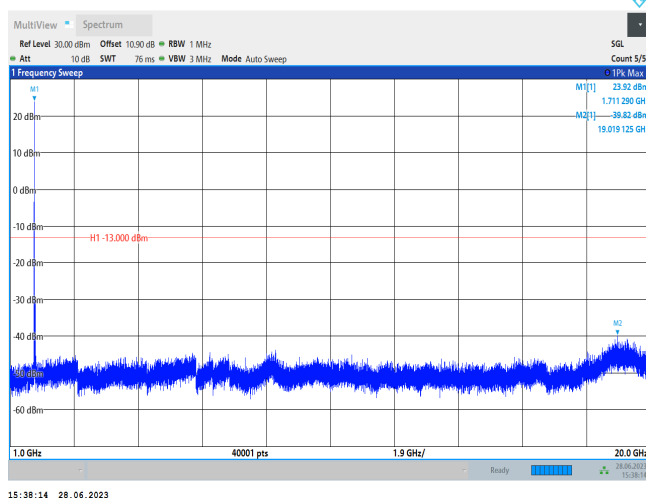
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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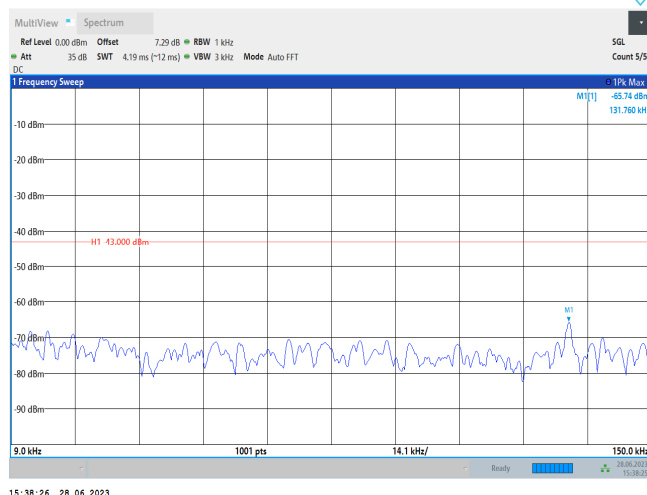


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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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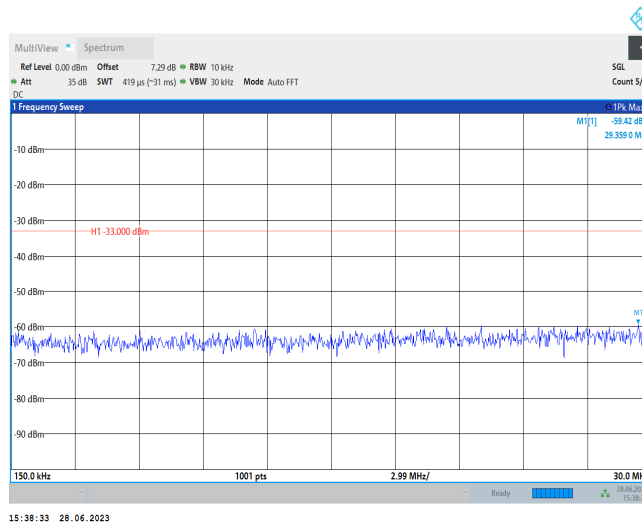
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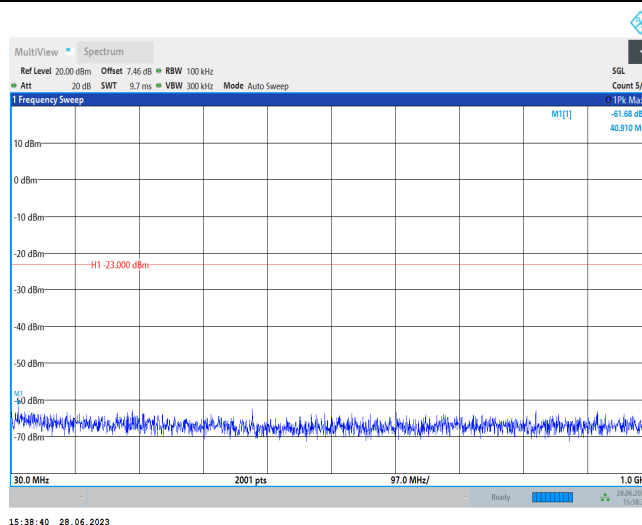
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Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



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



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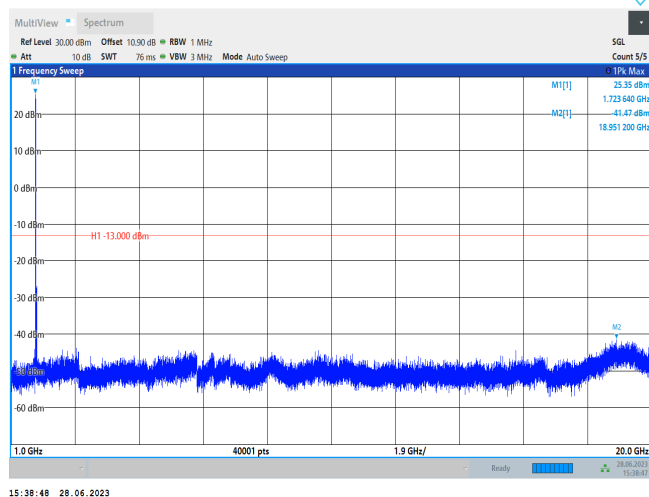


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Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



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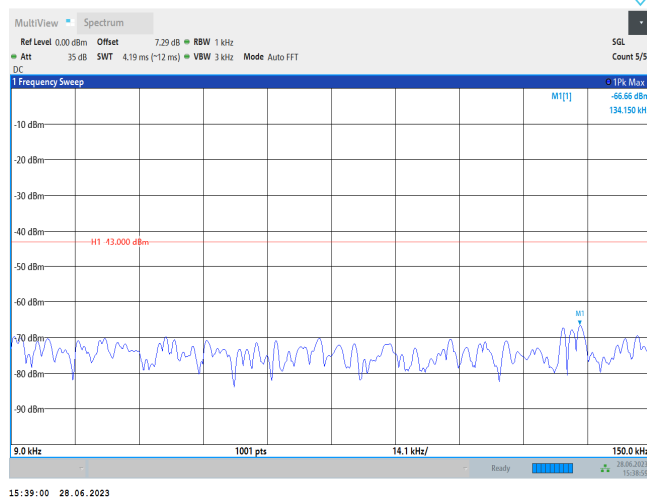
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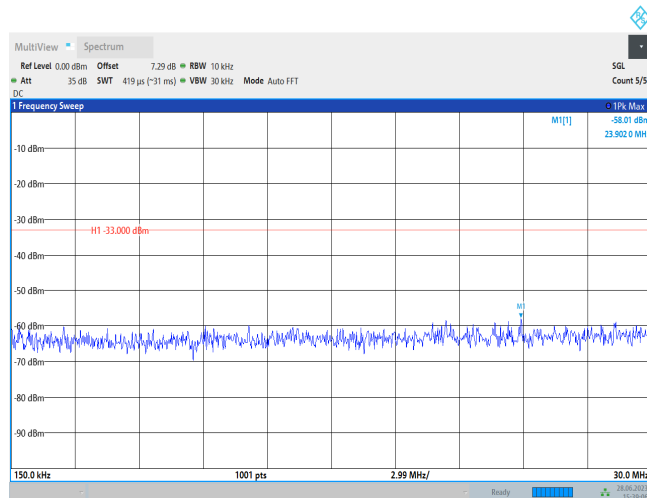
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



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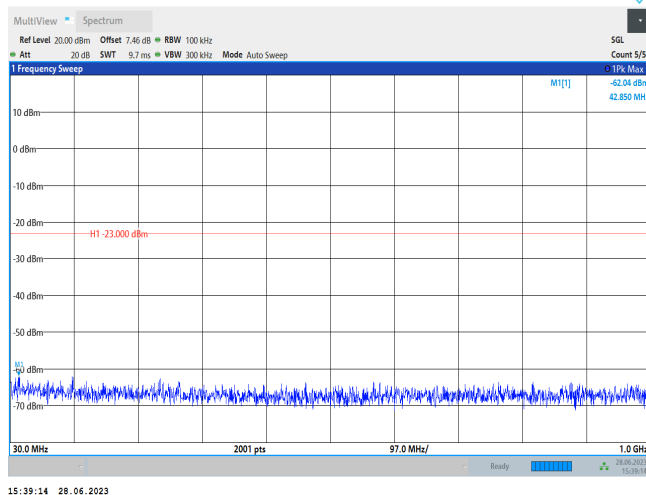
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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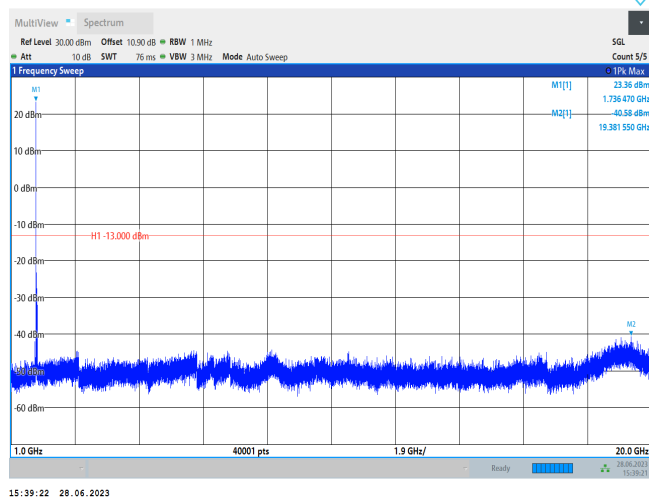


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Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_4_TM1_20MHz

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2994.2216	39.31	-21.78	28.57	-49.16	-13.00	36.16	149	177	Horizontal
2	3881.4353	48.81	-44.34	29.70	-61.09	-13.00	48.09	338	72	Horizontal
3	5584.9034	47.33	-41.50	32.48	-56.95	-13.00	43.95	201	135	Horizontal
4	7476.179	45.50	-38.29	36.85	-51.20	-13.00	38.20	334	37	Horizontal
5	10946.1178	44.39	-37.22	40.15	-47.94	-13.00	34.94	212	233	Horizontal
6	15185.2874	42.76	-35.87	39.79	-48.58	-13.00	35.58	199	180	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2797.0886	39.53	-21.85	28.29	-49.29	-13.00	36.29	355	354	Vertical
2	3909.6364	48.88	-44.20	29.74	-60.84	-13.00	47.84	345	108	Vertical
3	5712.1085	47.70	-41.18	32.50	-56.24	-13.00	43.24	188	219	Vertical
4	7372.9749	45.63	-38.44	36.59	-51.48	-13.00	38.48	201	354	Vertical
5	11101.5241	44.31	-37.62	40.20	-48.37	-13.00	35.37	321	349	Vertical
6	15182.2873	42.40	-35.99	39.81	-49.04	-13.00	36.04	215	260	Vertical



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Test Band = LTE_4_TM1_20MHz
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2999.111	39.33	-21.77	28.59	-49.11	-13.00	36.11	148	198	Horizontal
2	5082.6833	48.02	-42.55	31.53	-58.26	-13.00	45.26	213	114	Horizontal
3	7377.7751	45.81	-38.41	36.61	-51.25	-13.00	38.25	222	1	Horizontal
4	8852.0341	43.61	-36.28	36.80	-51.13	-13.00	38.13	368	145	Horizontal
5	10970.1188	44.03	-37.11	40.13	-48.21	-13.00	35.21	210	105	Horizontal
6	16485.5394	42.58	-35.50	39.23	-48.95	-13.00	35.95	107	269	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2988.6654	39.36	-21.79	28.53	-49.16	-13.00	36.16	361	25	Vertical
2	3919.8368	49.08	-44.19	29.78	-60.59	-13.00	47.59	278	300	Vertical
3	5591.5037	47.40	-41.47	32.53	-56.80	-13.00	43.80	189	175	Vertical
4	7446.7779	45.03	-38.28	36.79	-51.72	-13.00	38.72	333	210	Vertical
5	10962.3185	44.26	-37.15	40.14	-48.01	-13.00	35.01	258	323	Vertical
6	15188.8876	41.88	-35.73	39.77	-49.34	-13.00	36.34	221	219	Vertical



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Test Band = LTE_4_TM1_20MHz
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2997.9998	39.17	-21.77	28.59	-49.27	-13.00	36.27	152	11	Horizontal
2	4258.8504	48.23	-43.47	29.75	-60.75	-13.00	47.75	235	44	Horizontal
3	5598.7039	47.74	-41.45	32.59	-56.38	-13.00	43.38	188	173	Horizontal
4	7438.3775	45.35	-38.28	36.78	-51.41	-13.00	38.41	346	232	Horizontal
5	11095.5238	44.34	-37.56	40.20	-48.28	-13.00	35.28	119	61	Horizontal
6	15183.4873	42.20	-35.94	39.80	-49.20	-13.00	36.20	150	340	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2999.7778	39.21	-21.77	28.60	-49.22	-13.00	36.22	279	350	Vertical
2	3472.2189	48.60	-45.19	28.99	-62.86	-13.00	49.86	364	286	Vertical
3	4897.8759	47.88	-42.88	30.89	-59.37	-13.00	46.37	355	295	Vertical
4	7456.3783	45.31	-38.29	36.81	-51.43	-13.00	38.43	188	27	Vertical
5	11091.3237	44.63	-37.54	40.19	-47.98	-13.00	34.98	201	255	Vertical
6	15196.6879	41.74	-35.42	39.72	-49.22	-13.00	36.22	236	134	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	16.19	0.009345	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-4.26	-0.002459	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	10.37	0.005986	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-5.35	-0.003088	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-5.25	-0.003030	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-6.48	-0.003740	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	14.25	0.008225	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	14.00	0.008081	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	14.53	0.008387	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-7.45	-0.004300	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	4.49	0.002592	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-7.55	-0.004358	PASS

---End of Attachment---



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V/F Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

t (86-29) 6282 7885 www.sgsgroup.com.cn
t (86-29) 6282 7885 sgs.china@sgs.com

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