



Report No.: SEWA2309000114RG01

Rev.: 01

Page: 1 of 81

# Appendix B.3

## LTE Band 4



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### Effective (Isotropic) Radiated Power Output Data

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.91	25.38	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.87	25.34	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.94	25.41	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.91	24.38	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.69	25.16	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.9	25.37	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.83	25.3	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.92	24.39	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.79	25.26	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.8	25.27	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.74	25.21	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.83	24.3	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.96	24.43	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.12	24.59	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23.01	24.48	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	22.09	23.56	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.02	24.49	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.1	24.57	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.1	24.57	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	22	23.47	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.96	24.43	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.02	24.49	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.91	24.38	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.87	23.34	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	22.05	23.52	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	22.05	23.52	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.97	23.44	30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	20.97	22.44	30	PASS



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Table with 9 columns: Band, Frequency, Modulation, Standard, Test Item, Value 1, Value 2, Value 3, Result. Rows include various test configurations for Band4, such as 1.4MHz 64QAM and 3MHz QPSK.



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Report No.: SEWA2309000114RG01
Rev.: 01
Page: 4 of 81

Table with 9 columns: Band, Frequency, Modulation, Standard, Channel, C1, C2, C3, Result. Contains 30 rows of test data for Band 4, 3MHz, 16QAM and 256QAM.



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Table with 9 columns: Band, Frequency, Modulation, Standard, Reference, and 4 test results. It contains 35 rows of test data for various bands and modulations.



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Table with 9 columns: Band, Frequency, Modulation, Test Case, Test Case ID, S1, S2, S3, Result. Contains 36 rows of test data.



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Rev.: 01  
Page: 7 of 81

Table with 9 columns: Band, Frequency, Modulation, Standard, Test Item, Value 1, Value 2, Limit, Result. Contains 35 rows of test data.



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 Rev.: 01  
 Page: 8 of 81

Band4	15MHz	QPSK	20025	1RB#38	23.96	25.43	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.88	25.35	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.89	24.36	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.84	25.31	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.75	25.22	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.88	25.35	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.73	24.2	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.94	25.41	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.81	25.28	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	24.01	25.48	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.8	24.27	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.9	24.37	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.85	24.32	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.89	24.36	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.88	23.35	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.75	24.22	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.94	24.41	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.9	24.37	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.78	23.25	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.75	24.22	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.81	24.28	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.03	24.5	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.75	23.22	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.87	23.34	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.99	23.46	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	22.1	23.57	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.89	22.36	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.9	23.37	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	22.07	23.54	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.89	23.36	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.73	22.2	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.97	23.44	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.8	23.27	30	PASS



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Table with 9 columns: Band, Frequency, Modulation, Channel, ID, S1, S2, S3, Result. Rows include various configurations for Band4 (15MHz and 20MHz) with different modulation schemes (QAM, QPSK) and test results (PASS).



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Band4	20MHz	16QAM	20175	100RB#0	21.8	23.27	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.89	24.36	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.8	24.27	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	23	24.47	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.73	23.2	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.77	23.24	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	22.07	23.54	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	22.01	23.48	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.92	22.39	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	22.05	23.52	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.95	23.42	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	22.03	23.5	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.78	22.25	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.96	23.43	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	22.15	23.62	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	22.13	23.6	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.69	22.16	30	PASS
Band4	20MHz	256QAM	20050	1RB#0	18.71	20.18	30	PASS
Band4	20MHz	256QAM	20050	1RB#49	18.8	20.27	30	PASS
Band4	20MHz	256QAM	20050	1RB#99	19.12	20.59	30	PASS
Band4	20MHz	256QAM	20050	100RB#0	18.87	20.34	30	PASS
Band4	20MHz	256QAM	20175	1RB#0	18.71	20.18	30	PASS
Band4	20MHz	256QAM	20175	1RB#49	18.89	20.36	30	PASS
Band4	20MHz	256QAM	20175	1RB#99	19.03	20.5	30	PASS
Band4	20MHz	256QAM	20175	100RB#0	18.77	20.24	30	PASS
Band4	20MHz	256QAM	20300	1RB#0	18.7	20.17	30	PASS
Band4	20MHz	256QAM	20300	1RB#49	18.73	20.2	30	PASS
Band4	20MHz	256QAM	20300	1RB#99	18.91	20.38	30	PASS
Band4	20MHz	256QAM	20300	100RB#0	18.68	20.15	30	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

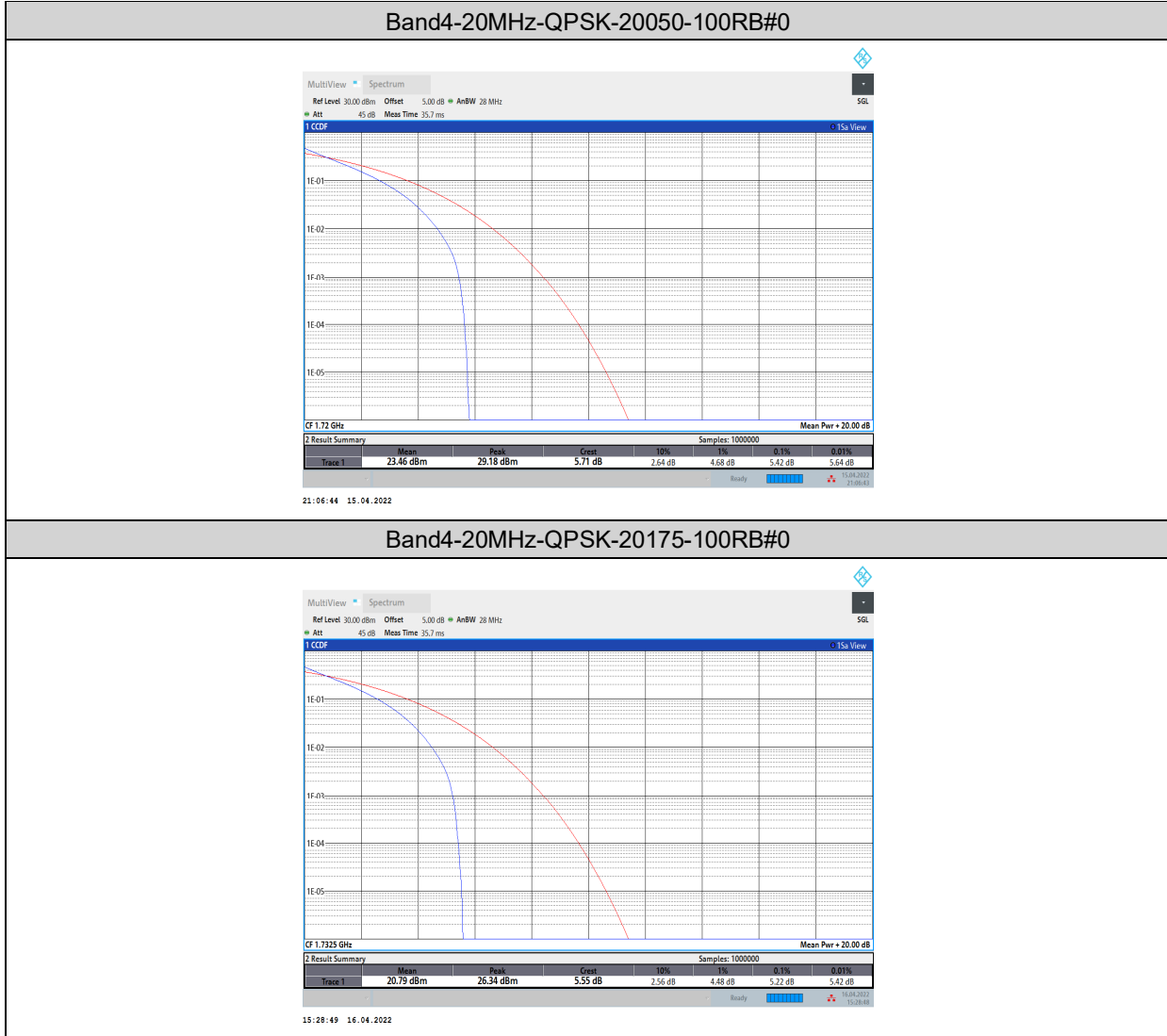
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.42	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.22	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.34	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.36	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.94	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.94	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.90	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.54	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.46	13	PASS
Band4	20MHz	256QAM	20050	100RB#0	7.20	13	PASS
Band4	20MHz	256QAM	20175	100RB#0	7.08	13	PASS
Band4	20MHz	256QAM	20300	100RB#0	7.12	13	PASS



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Test Graphs

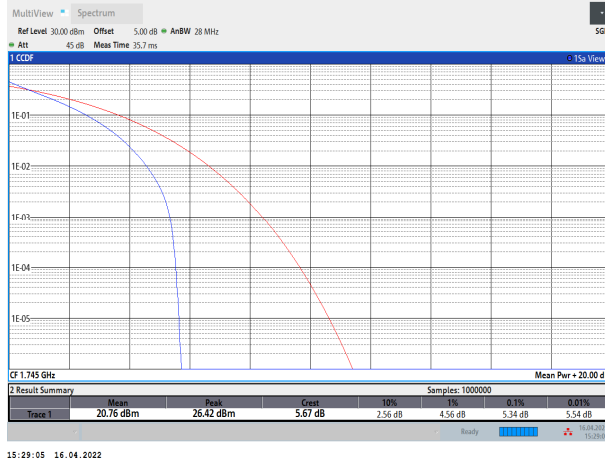


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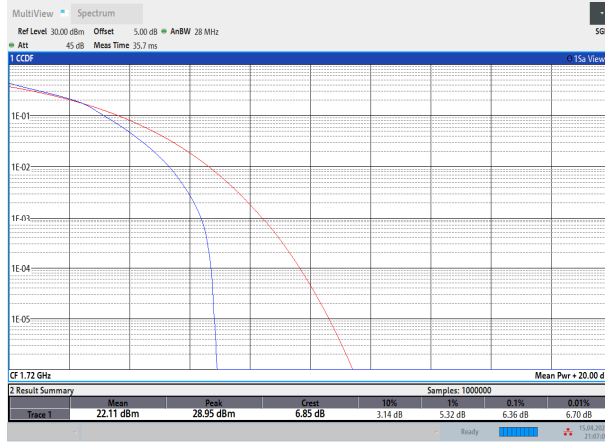
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Band4-20MHz-QPSK-20300-100RB#0



15:19:05 16.04.2022

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



21:07:01 15.04.2022



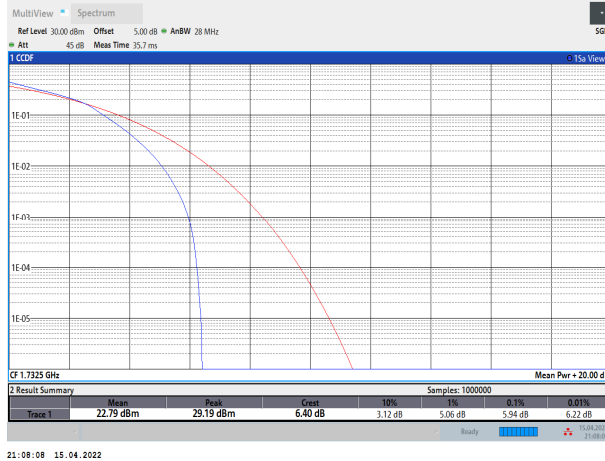
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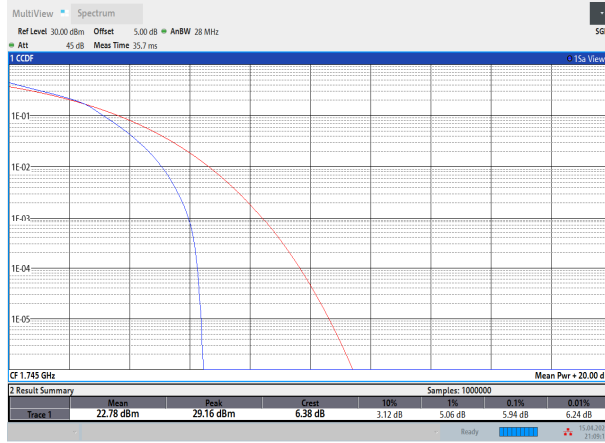
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Band4-20MHz-16QAM-20175-100RB#0



21:09:08 15.04.2022

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



21:09:18 15.04.2022

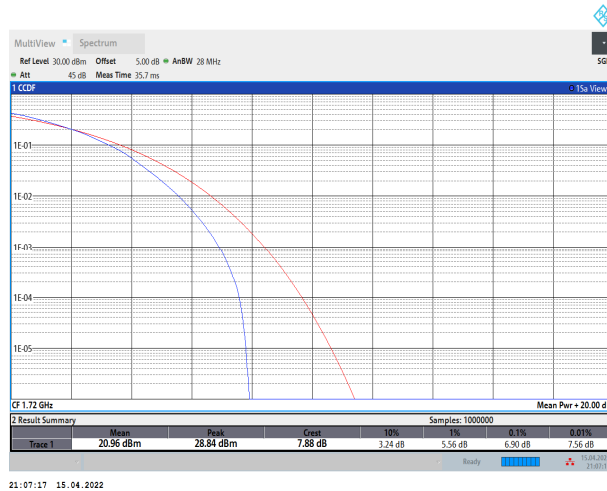


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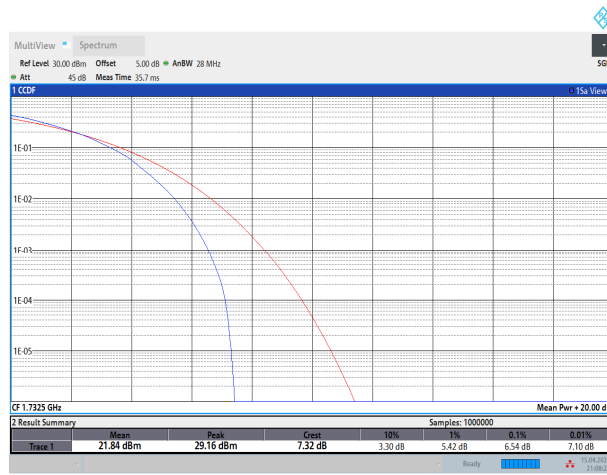
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Band4-20MHz-64QAM-20050-100RB#0



21:07:17 15.04.2022

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



21:08:25 15.04.2022

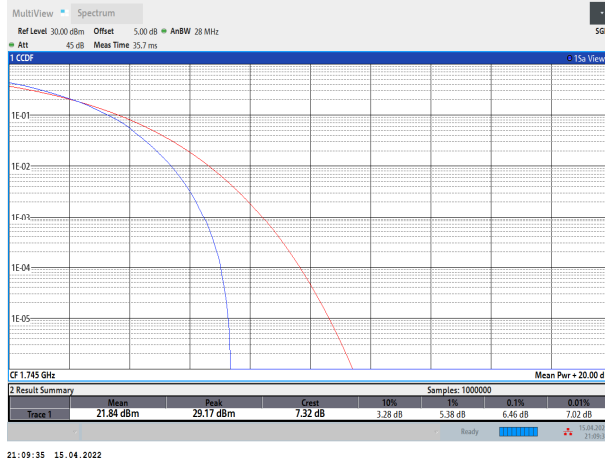


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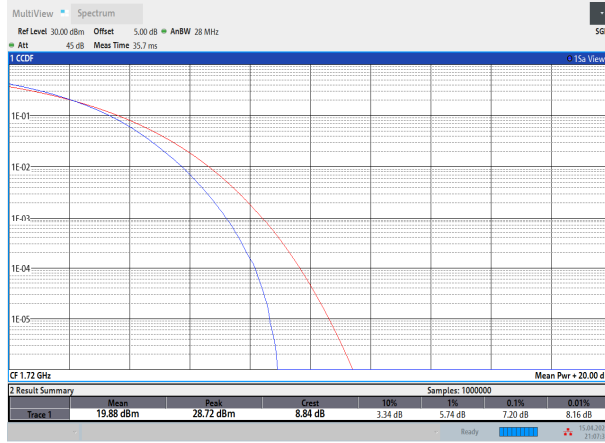
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Band4-20MHz-64QAM-20300-100RB#0



21:09:35 15.04.2022

Band4-20MHz-256QAM-20050-100RB#0



21:07:33 15.04.2022



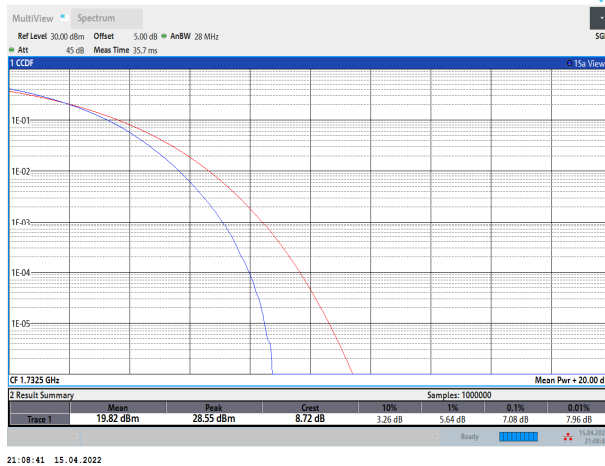
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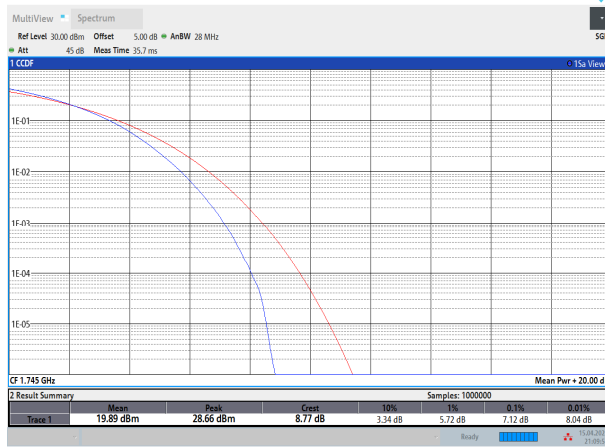


Band4-20MHz-256QAM-20175-100RB#0



21:09:41 15.04.2022

Band4-20MHz-256QAM-20300-100RB#0



21:09:51 15.04.2022



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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	1.108	1.37	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.108	1.37	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.105	1.37	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.109	1.44	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.107	1.40	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.110	1.39	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.109	1.38	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.109	1.40	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.109	1.42	PASS
Band4	1.4MHz	256QAM	19957	6RB#0	1.108	1.42	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	1.105	1.39	PASS
Band4	1.4MHz	256QAM	20393	6RB#0	1.106	1.41	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.692	3.05	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.697	3.03	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.694	3.04	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.706	3.05	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.699	3.04	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.700	3.08	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.704	3.04	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.699	3.05	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.701	3.06	PASS
Band4	3MHz	256QAM	19965	15RB#0	2.696	3.05	PASS
Band4	3MHz	256QAM	20175	15RB#0	2.702	3.04	PASS
Band4	3MHz	256QAM	20385	15RB#0	2.702	3.05	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.480	5.02	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.478	5.07	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.477	5.08	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.483	5.01	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.480	5.06	PASS



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Band4	5MHz	16QAM	20375	25RB#0	4.482	5.04	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.480	5.07	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.484	5.05	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.482	5.08	PASS
Band4	5MHz	256QAM	19975	25RB#0	4.482	5.06	PASS
Band4	5MHz	256QAM	20175	25RB#0	4.481	5.10	PASS
Band4	5MHz	256QAM	20375	25RB#0	4.482	5.03	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.967	9.92	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.940	9.82	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.939	9.92	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.963	9.88	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.966	9.90	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.959	9.92	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.948	9.92	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.953	9.88	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.958	9.82	PASS
Band4	10MHz	256QAM	20000	50RB#0	8.949	9.90	PASS
Band4	10MHz	256QAM	20175	50RB#0	8.943	9.88	PASS
Band4	10MHz	256QAM	20350	50RB#0	8.959	9.94	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.513	15.12	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.483	14.94	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.500	15.09	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.510	15.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.488	14.97	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.504	15.06	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.502	15.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.494	14.97	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.499	15.12	PASS
Band4	15MHz	256QAM	20025	75RB#0	13.501	15.00	PASS
Band4	15MHz	256QAM	20175	75RB#0	13.471	15.03	PASS
Band4	15MHz	256QAM	20325	75RB#0	13.512	15.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.938	19.72	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.885	19.60	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.949	19.68	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.950	19.68	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.903	19.56	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.940	19.52	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.955	19.76	PASS



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Report No.: SEWA2309000114RG01

Rev.: 01

Page: 20 of 81

Band4	20MHz	64QAM	20175	100RB#0	17.903	19.68	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.949	19.60	PASS
Band4	20MHz	256QAM	20050	100RB#0	17.986	19.88	PASS
Band4	20MHz	256QAM	20175	100RB#0	17.899	19.64	PASS
Band4	20MHz	256QAM	20300	100RB#0	17.938	19.84	PASS



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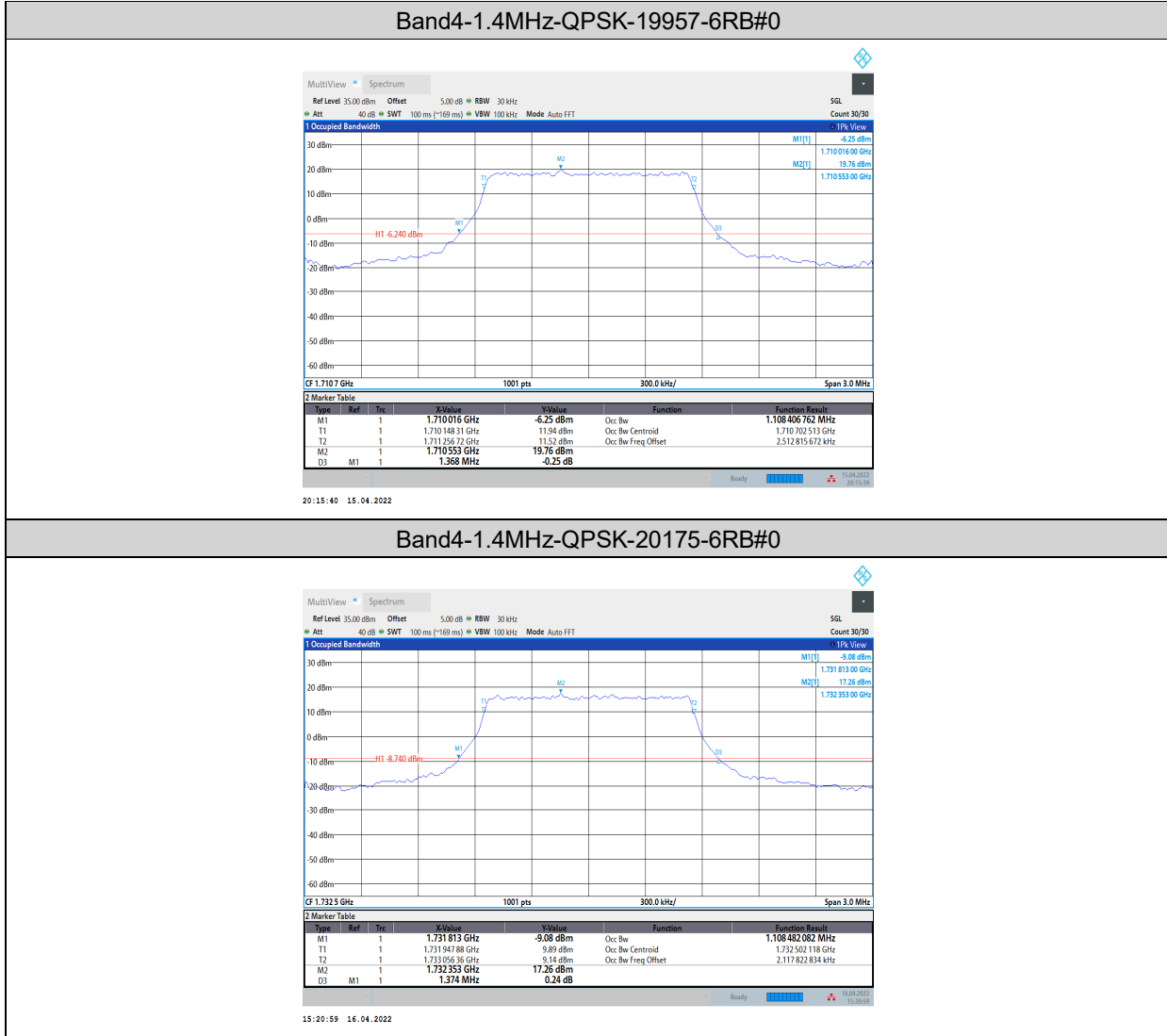
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Test Graphs

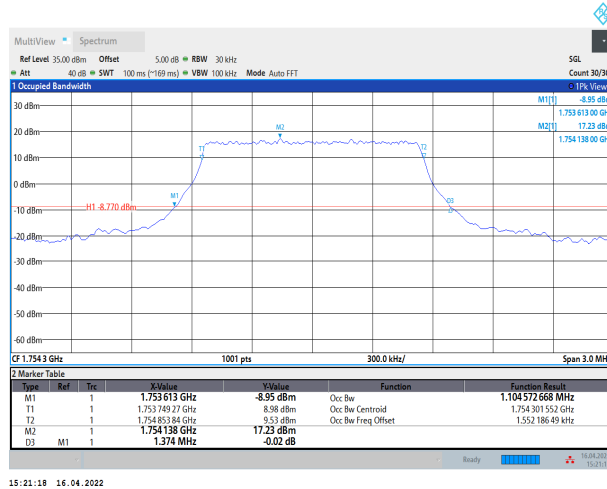


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Band4-1.4MHz-QPSK-20393-6RB#0



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

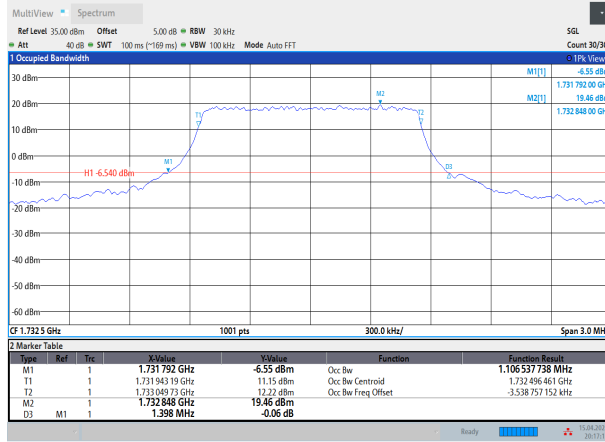


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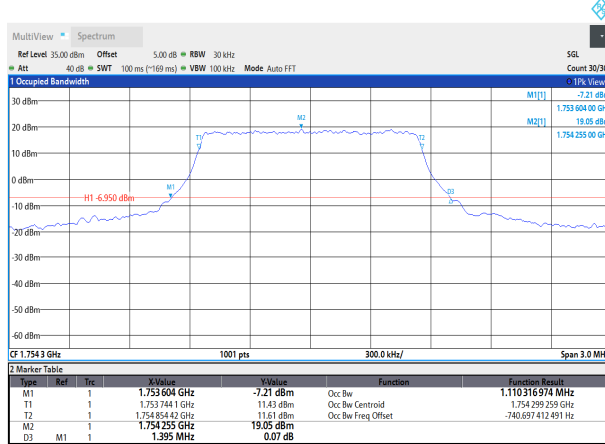
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20:17:13 15.04.2022

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



20:18:30 15.04.2022

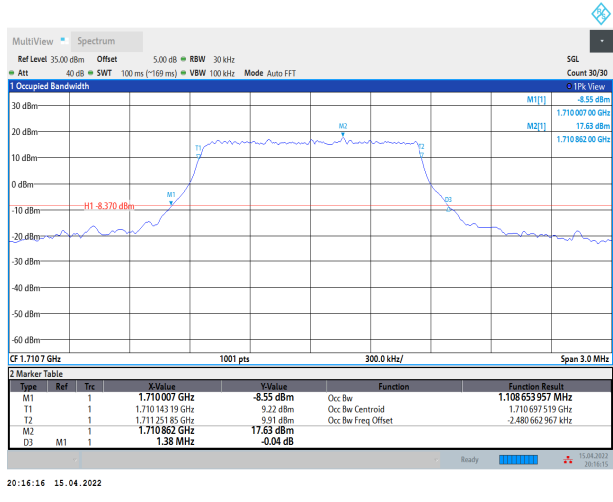


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Band4-1.4MHz-64QAM-19957-6RB#0



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

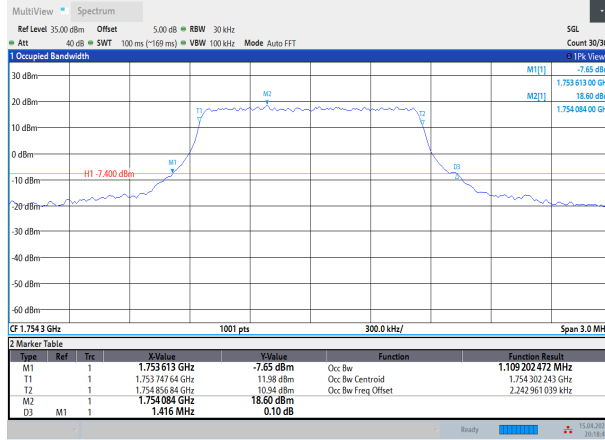


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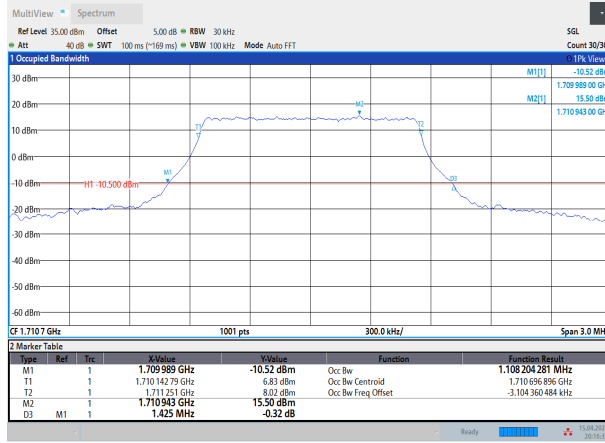
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Band4-1.4MHz-64QAM-20393-6RB#0



Band4-1.4MHz-256QAM-19957-6RB#0

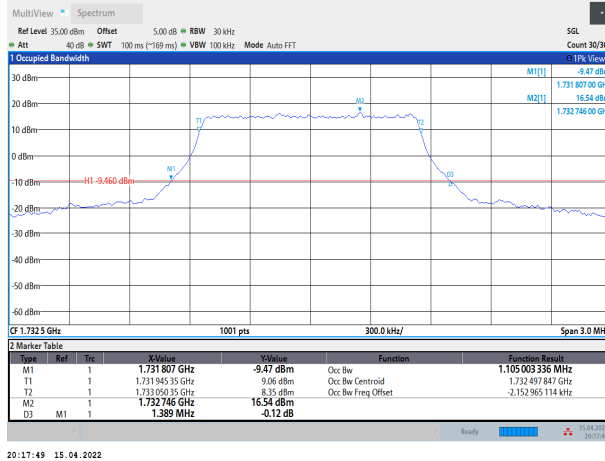


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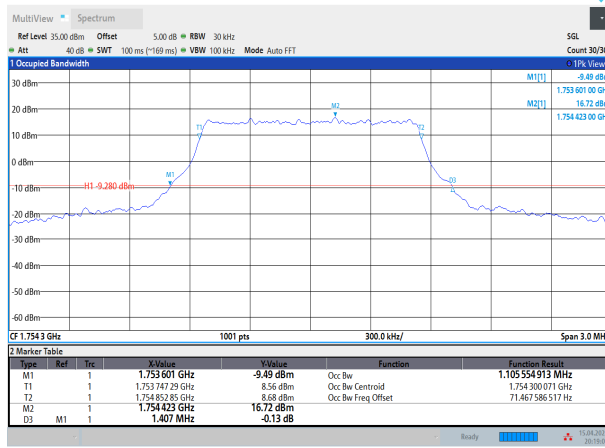
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Band4-1.4MHz-256QAM-20175-6RB#0



20:17:49 15.04.2022

Band4-1.4MHz-256QAM-20393-6RB#0



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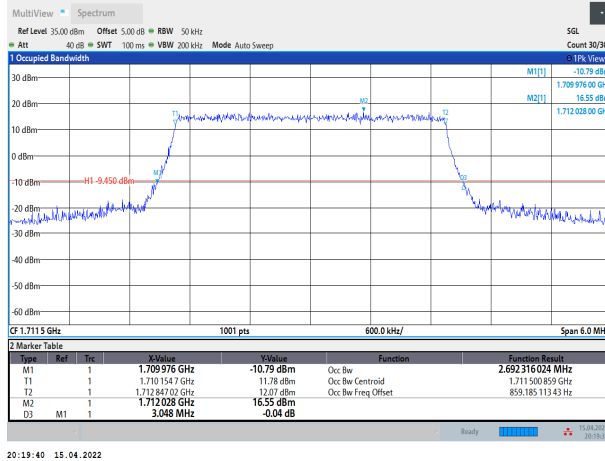


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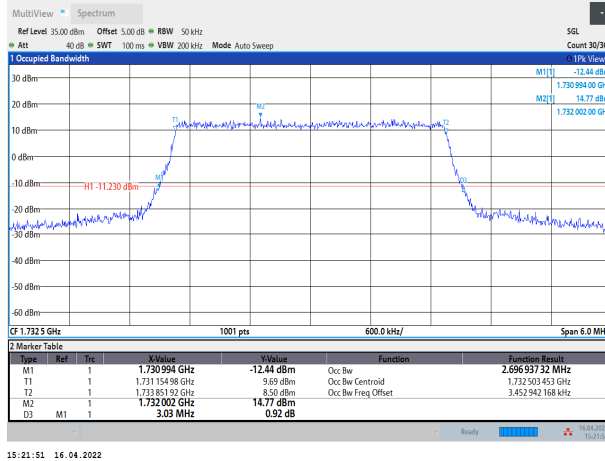
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Band4-3MHz-QPSK-19965-15RB#0



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

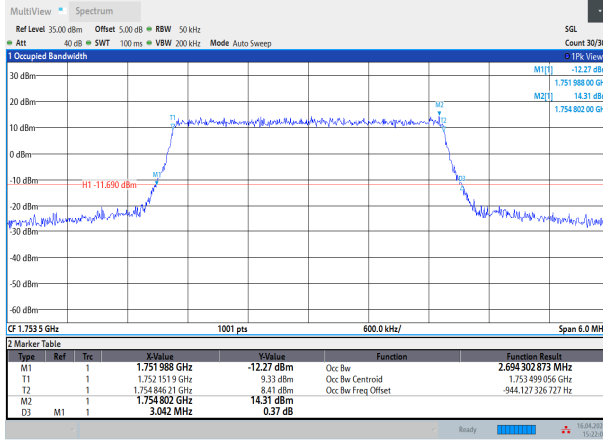


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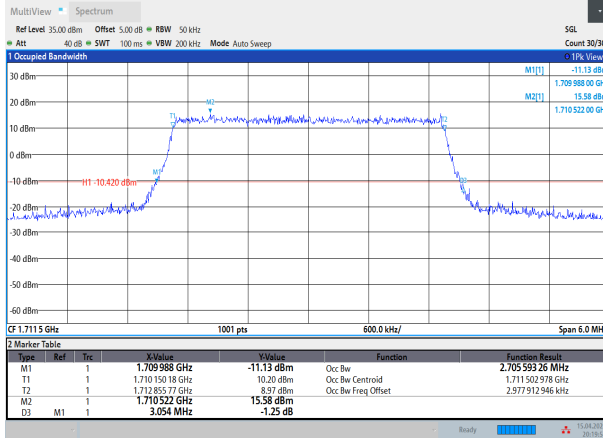
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Band4-3MHz-QPSK-20385-15RB#0



15:22:09 16.04.2022

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



20:19:58 15.04.2022

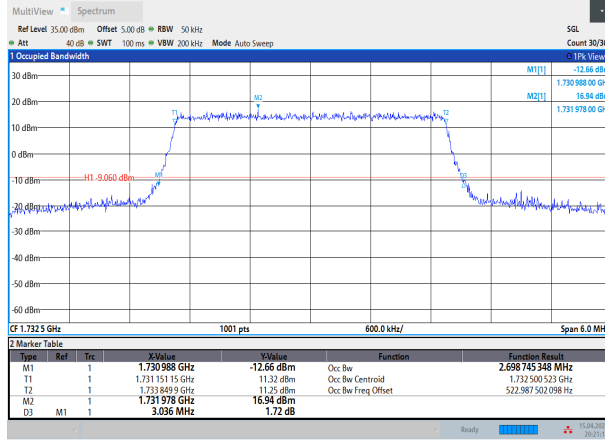


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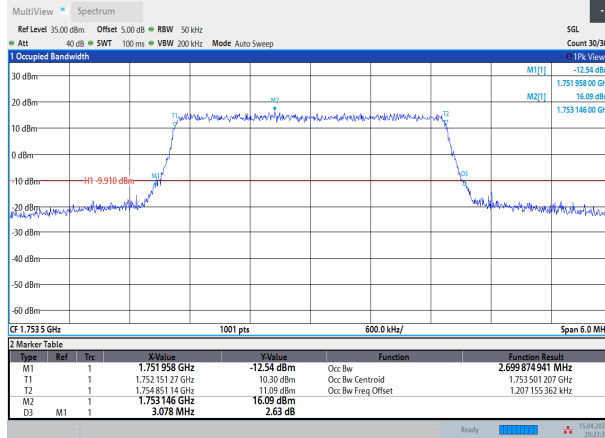
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Band4-3MHz-16QAM-20175-15RB#0



20:21:13 15.04.2022

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



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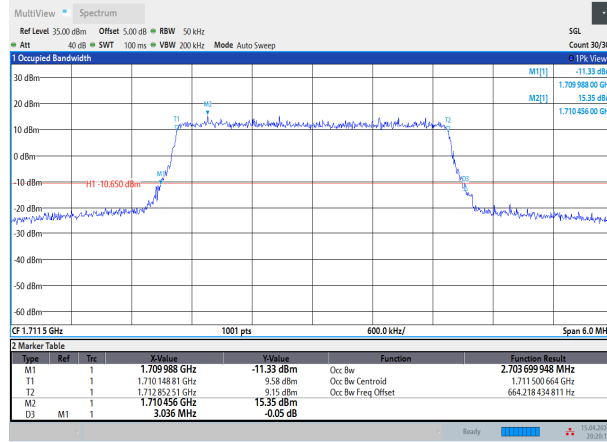


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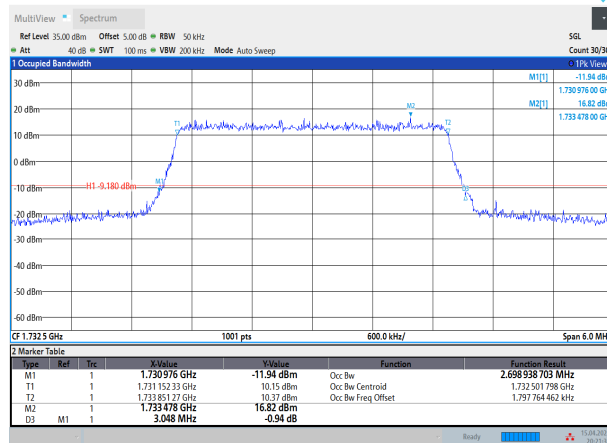
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Band4-3MHz-64QAM-19965-15RB#0



20:20:16 15.04.2022

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



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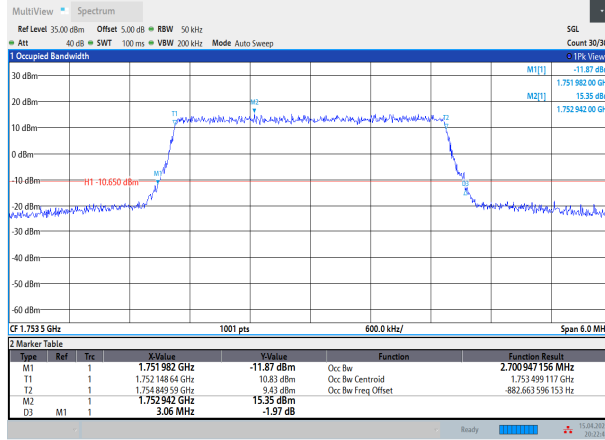


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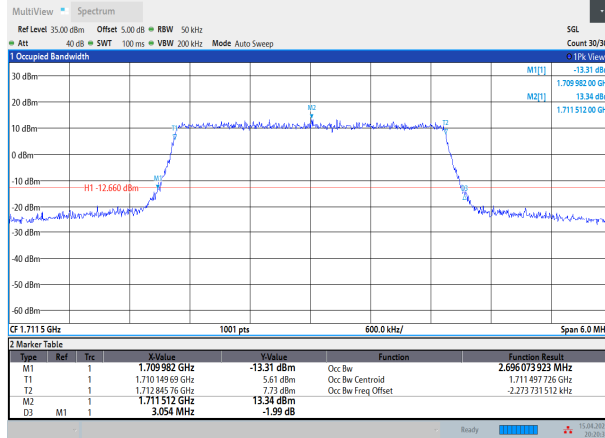
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Band4-3MHz-64QAM-20385-15RB#0



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Band4-3MHz-256QAM-19965-15RB#0



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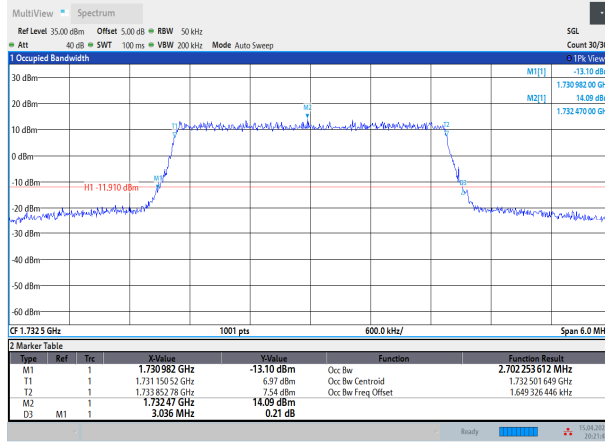


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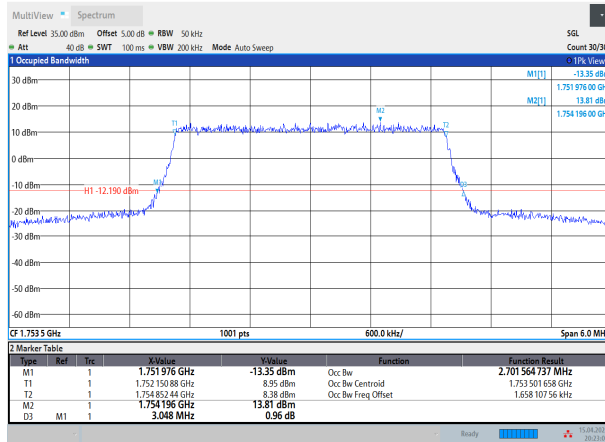
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Band4-3MHz-256QAM-20175-15RB#0



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Band4-3MHz-256QAM-20385-15RB#0



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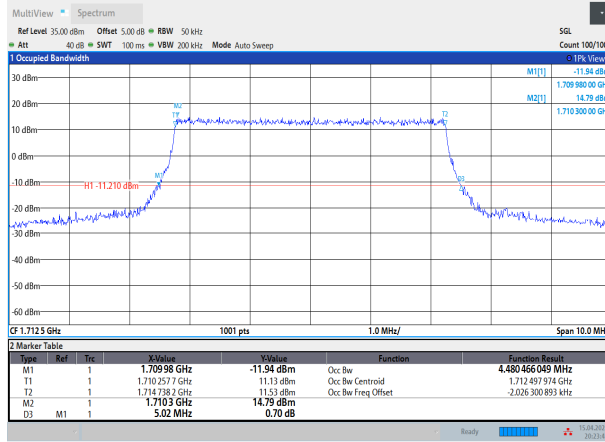
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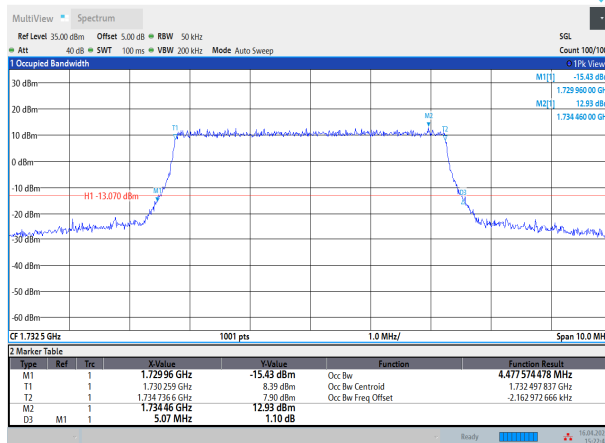


Band4-5MHz-QPSK-19975-25RB#0



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15:22:49 16.04.2022

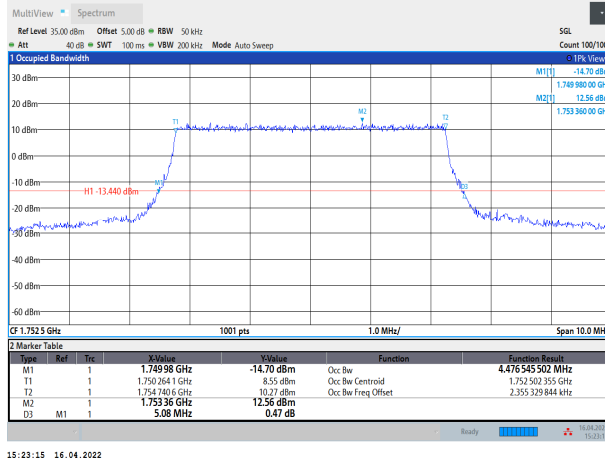


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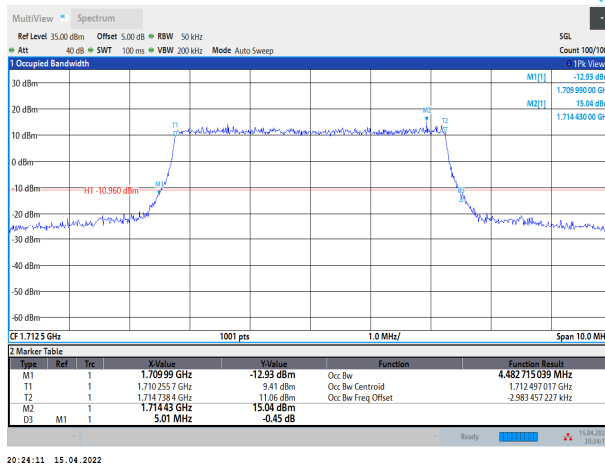
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Band4-5MHz-QPSK-20375-25RB#0



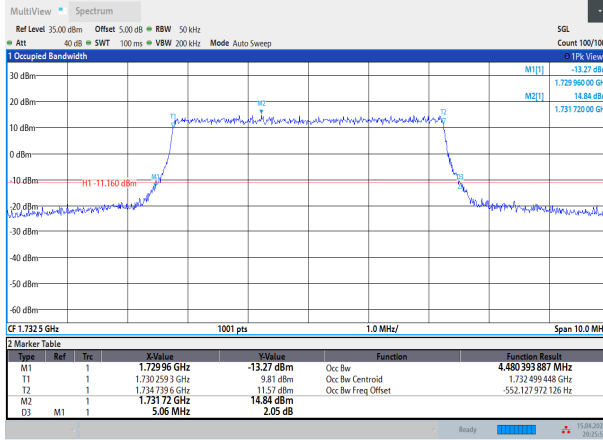
Band4-5MHz-16QAM-19975-25RB#0



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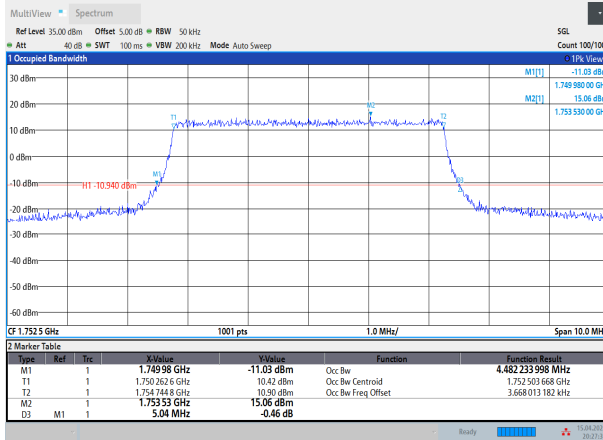
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Band4-5MHz-16QAM-20175-25RB#0



20:25:55 15.04.2022

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



20:27:40 15.04.2022

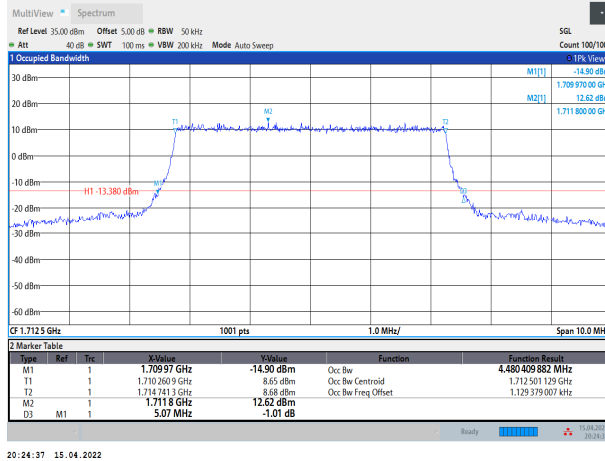


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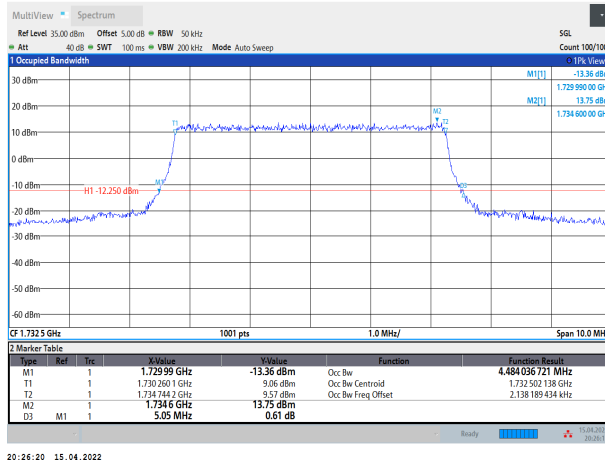
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Band4-5MHz-64QAM-19975-25RB#0



Band4-5MHz-64QAM-20175-25RB#0

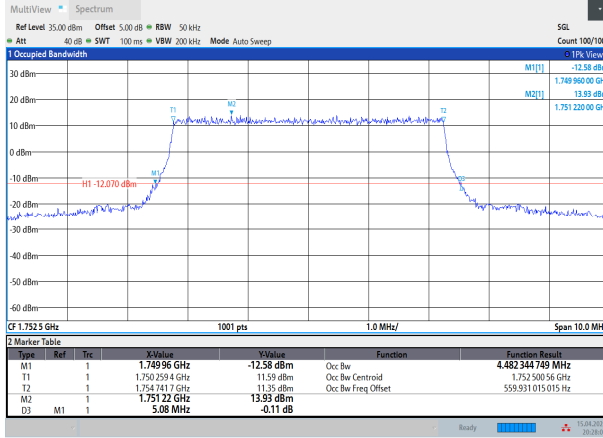


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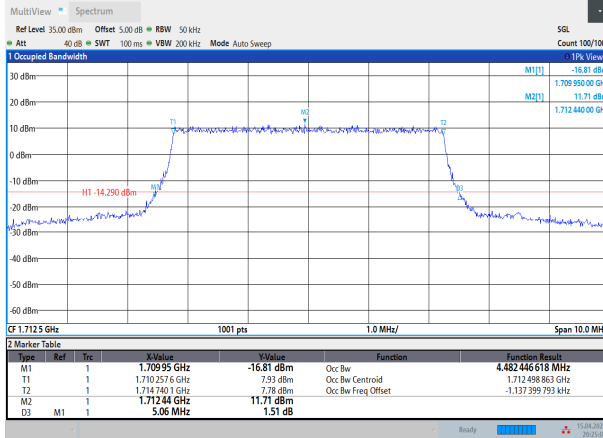
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Band4-5MHz-64QAM-20375-25RB#0



20:28:05 15. 04. 2022

Band4-5MHz-256QAM-19975-25RB#0



20:25:02 15. 04. 2022

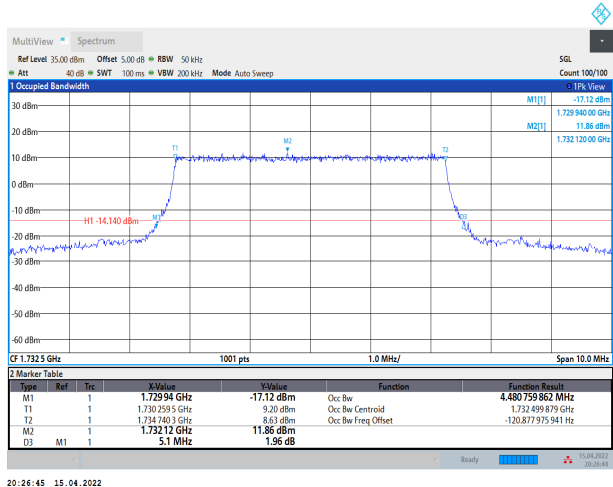


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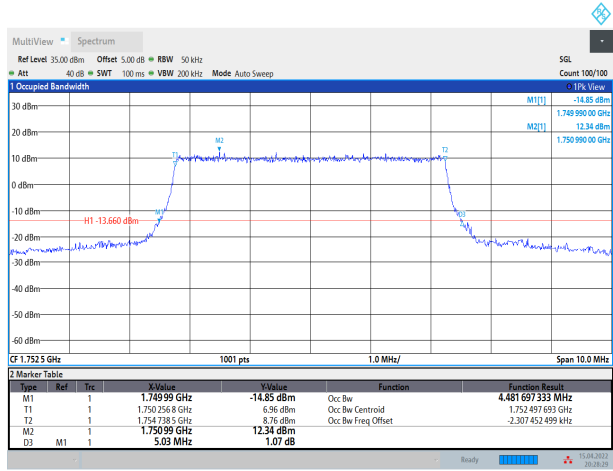
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Band4-5MHz-256QAM-20175-25RB#0



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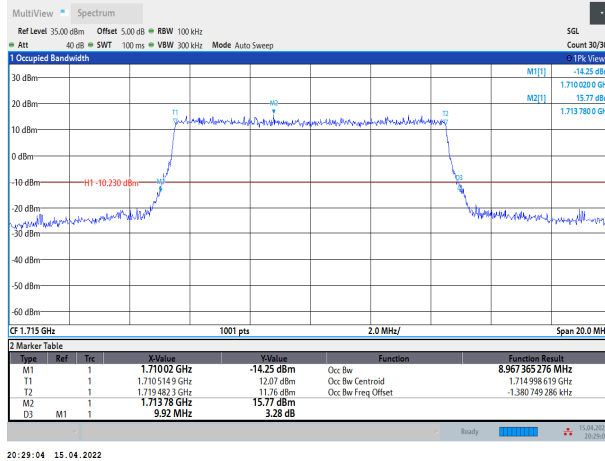


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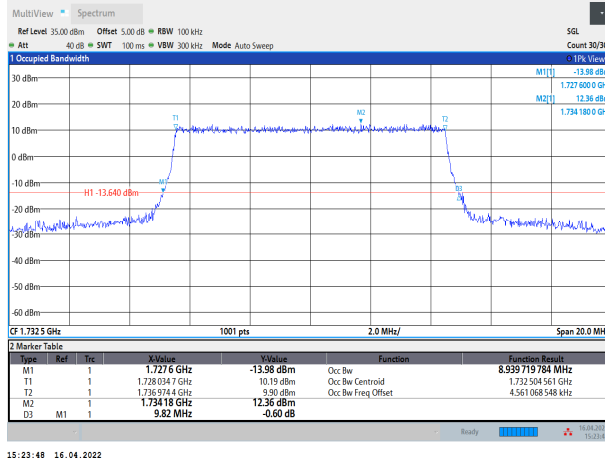
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Band4-10MHz-QPSK-20000-50RB#0



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

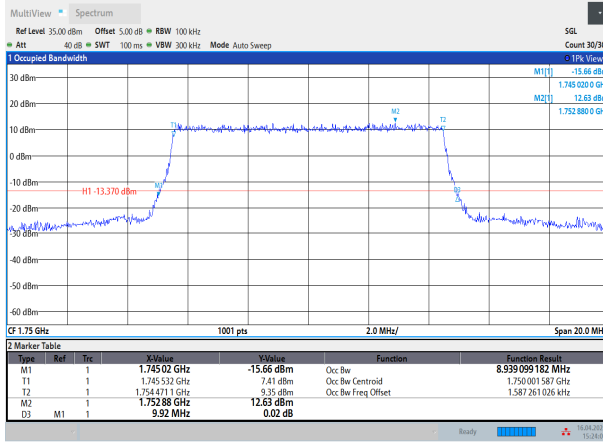


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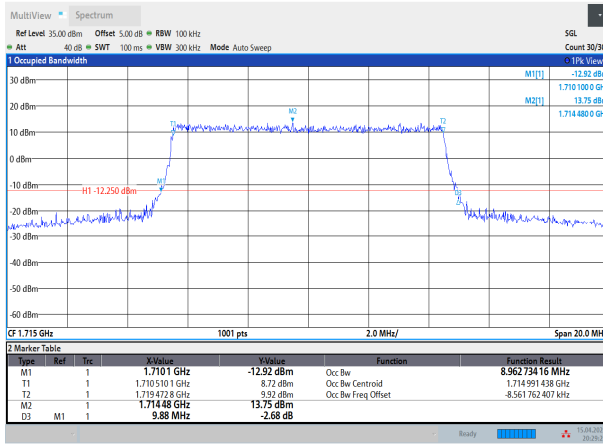
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Band4-10MHz-QPSK-20350-50RB#0



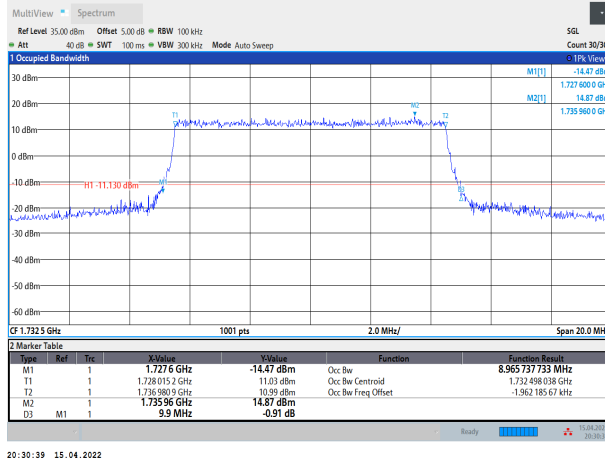
Band4-10MHz-16QAM-20000-50RB#0



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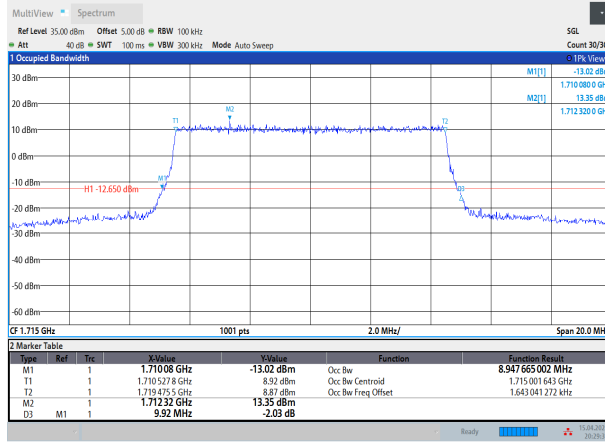


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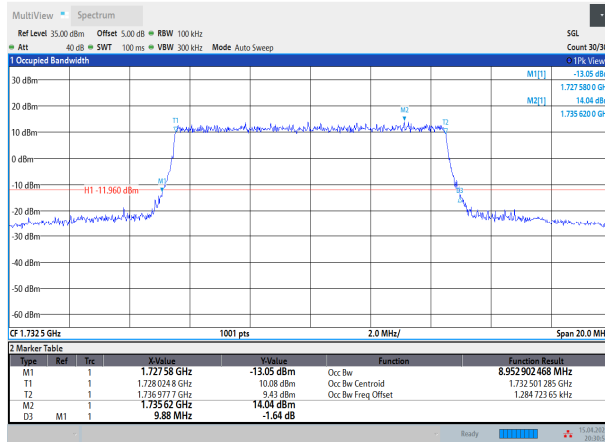
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Band4-10MHz-64QAM-20000-50RB#0



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Band4-10MHz-64QAM-20175-50RB#0



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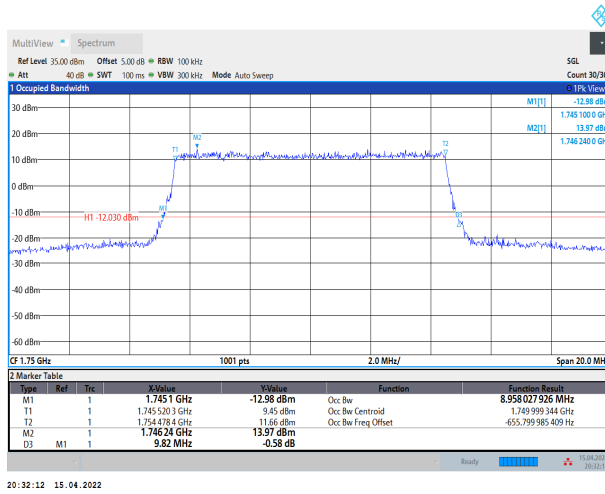


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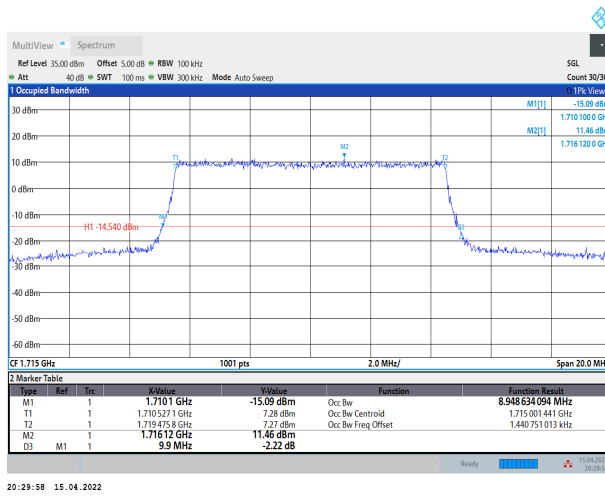
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Band4-10MHz-64QAM-20350-50RB#0



Band4-10MHz-256QAM-20000-50RB#0

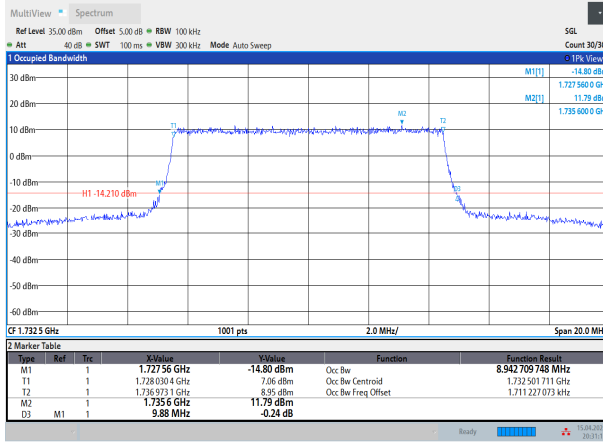


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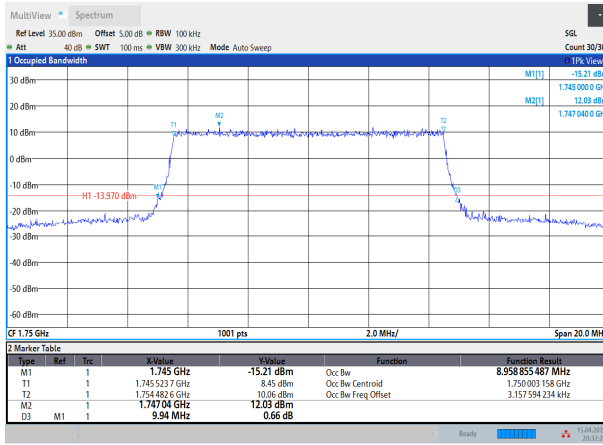
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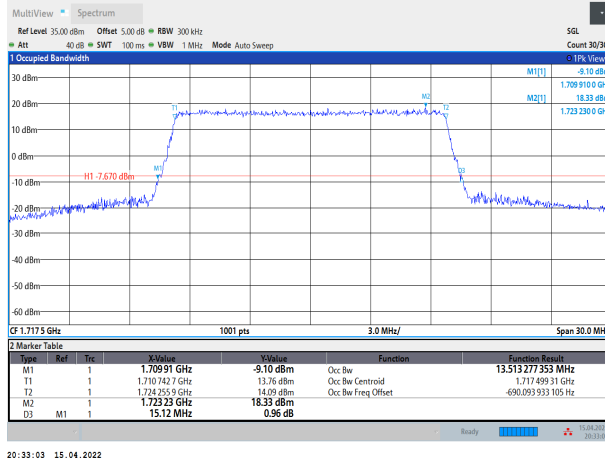


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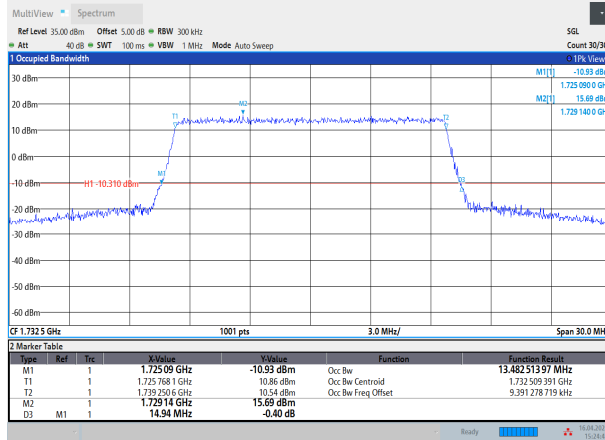
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Band4-15MHz-QPSK-20025-75RB#0



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15:24:42 16.04.2022

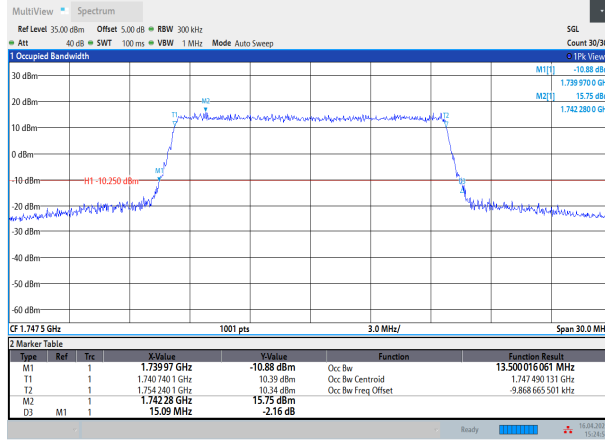


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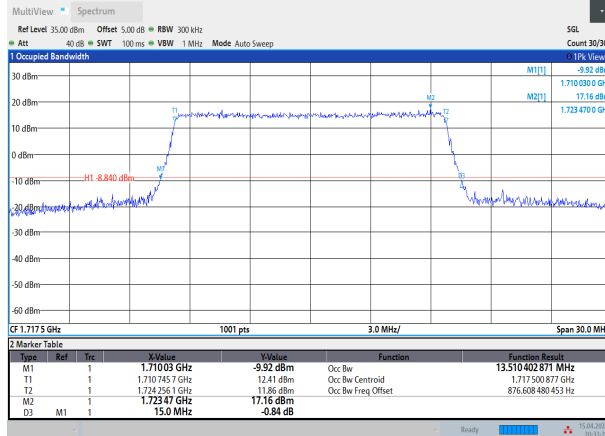
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Band4-15MHz-QPSK-20325-75RB#0



15:25:00 16.04.2022

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



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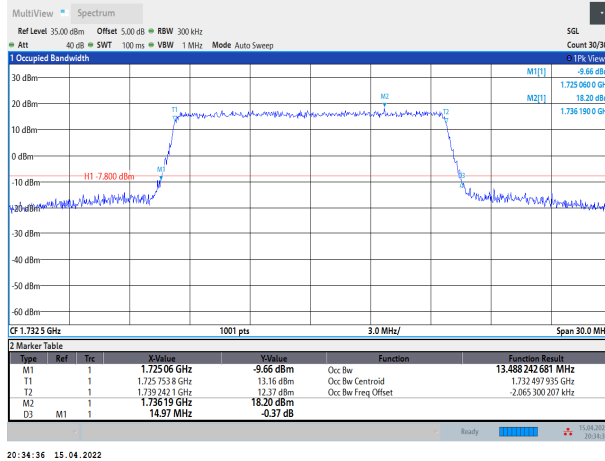


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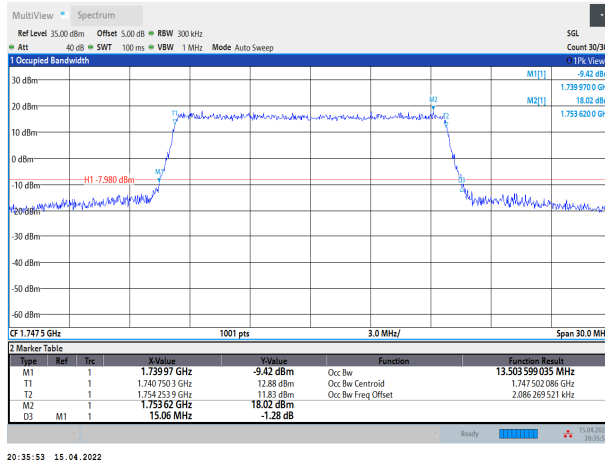
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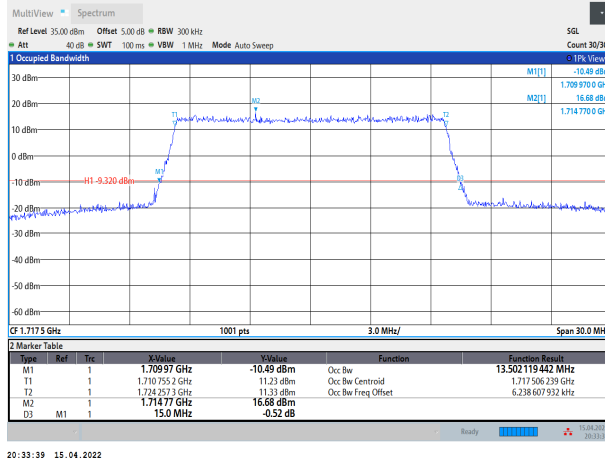


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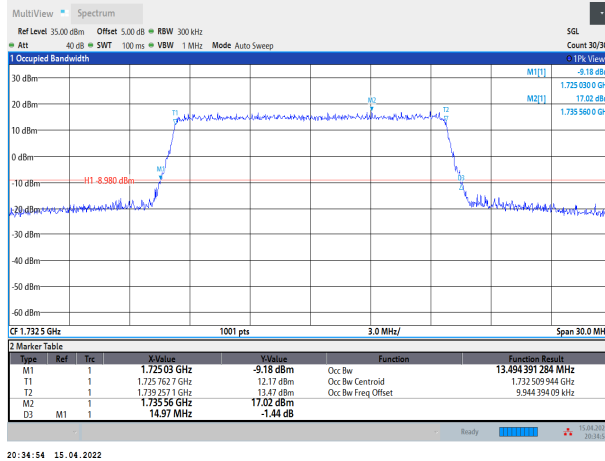
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Band4-15MHz-64QAM-20025-75RB#0



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



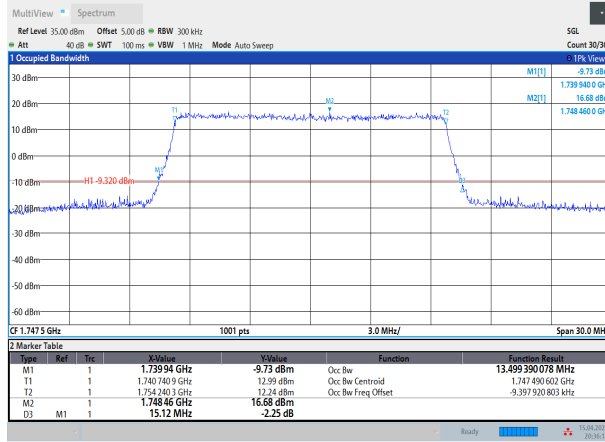
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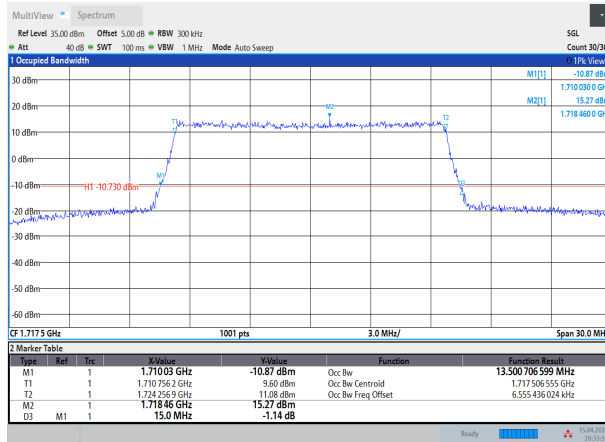


Band4-15MHz-64QAM-20325-75RB#0



20:36:11 15.04.2022

Band4-15MHz-256QAM-20025-75RB#0



20:33:58 15.04.2022

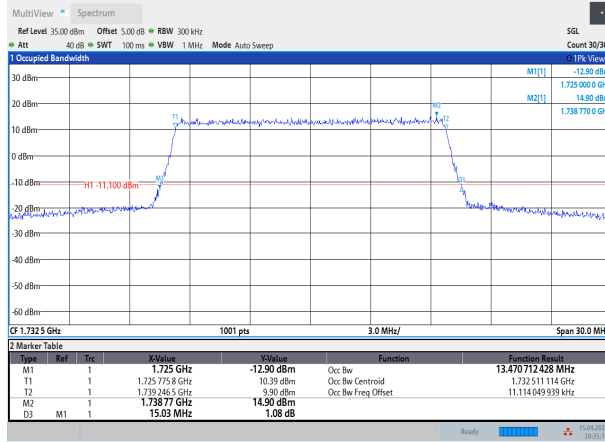


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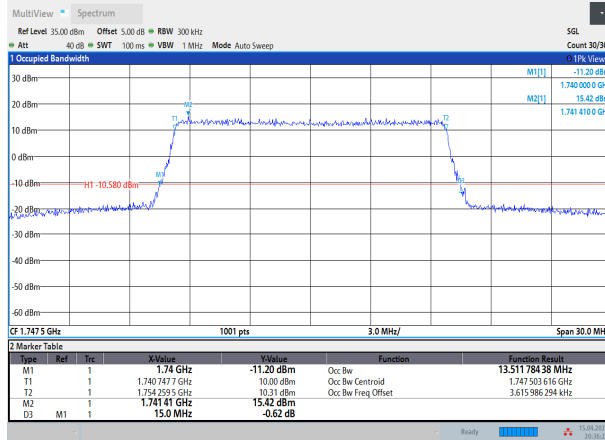
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Band4-15MHz-256QAM-20175-75RB#0



20:35:12 15. 04. 2022

Band4-15MHz-256QAM-20325-75RB#0



20:36:29 15. 04. 2022

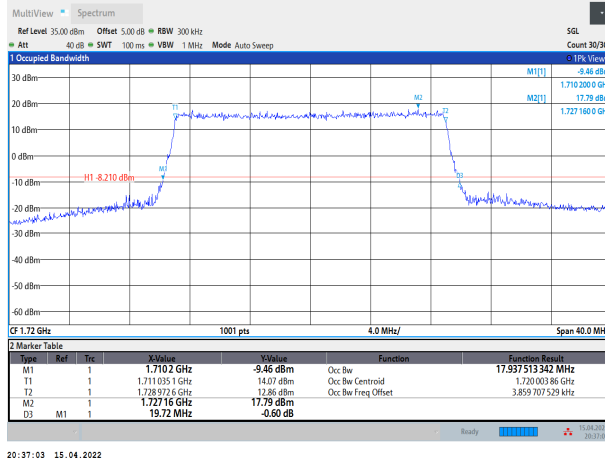


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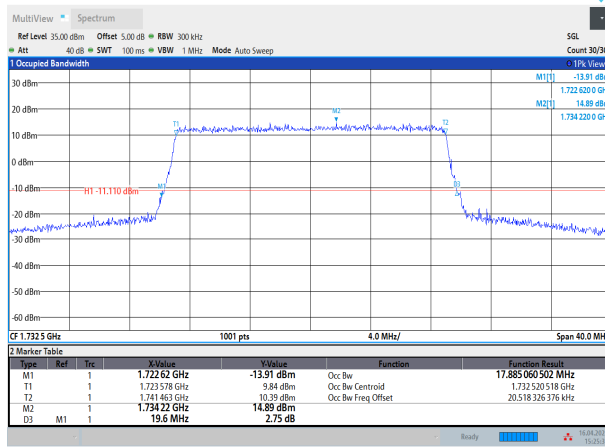
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Band4-20MHz-QPSK-20050-100RB#0



20:37:03 15.04.2022

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



15:25:33 16.04.2022

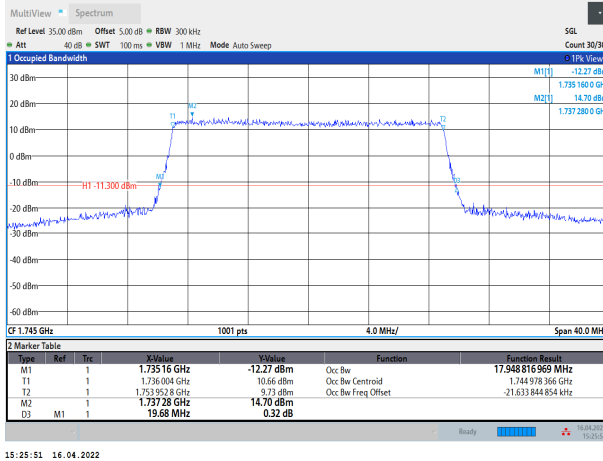


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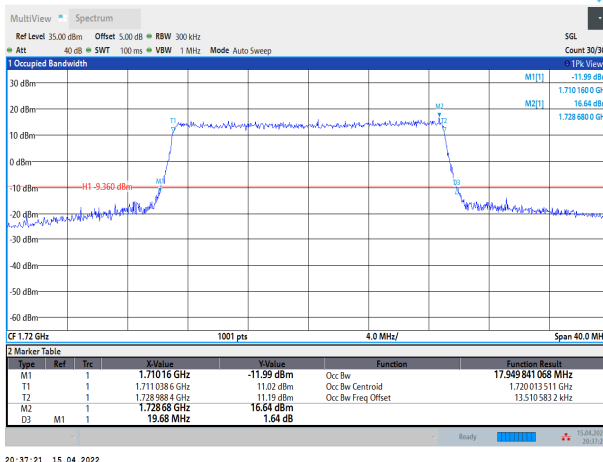
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Band4-20MHz-QPSK-20300-100RB#0



15:35:51 16.04.2022

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



20:37:21 15.04.2022

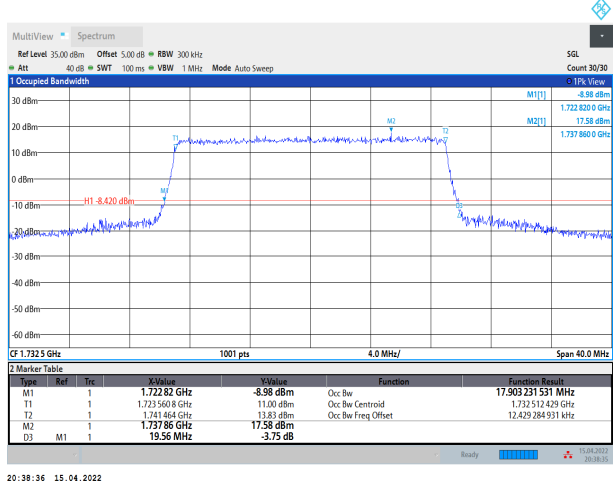


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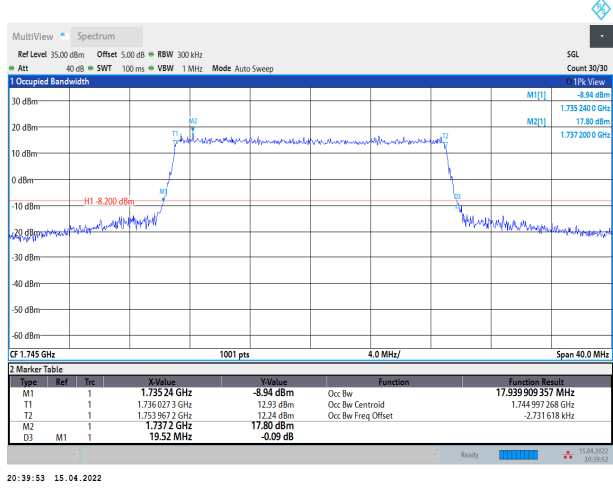
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Band4-20MHz-16QAM-20175-100RB#0



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

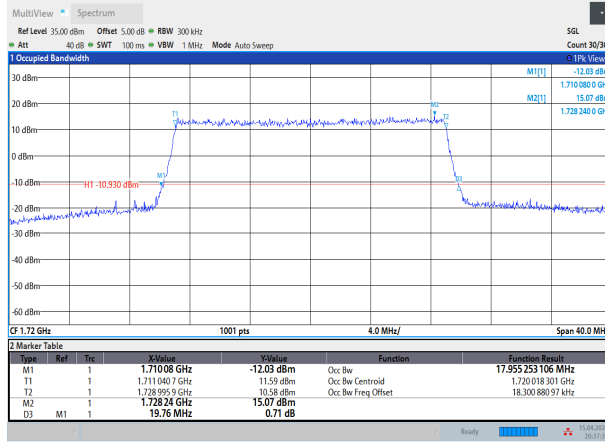


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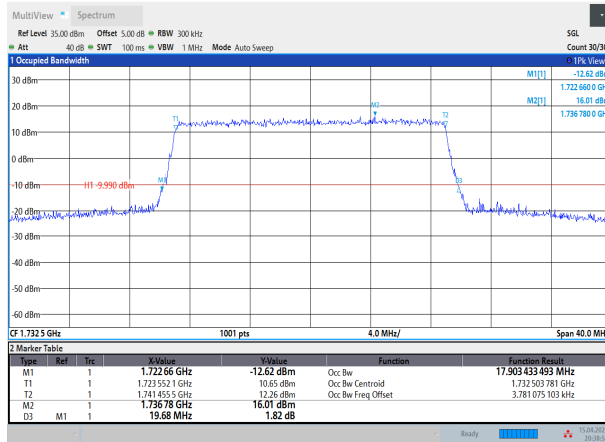
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Band4-20MHz-64QAM-20050-100RB#0



20:37:59 15.04.2022

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



20:38:54 15.04.2022

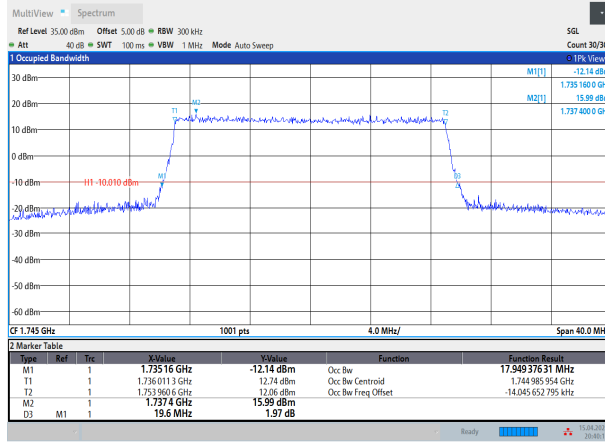


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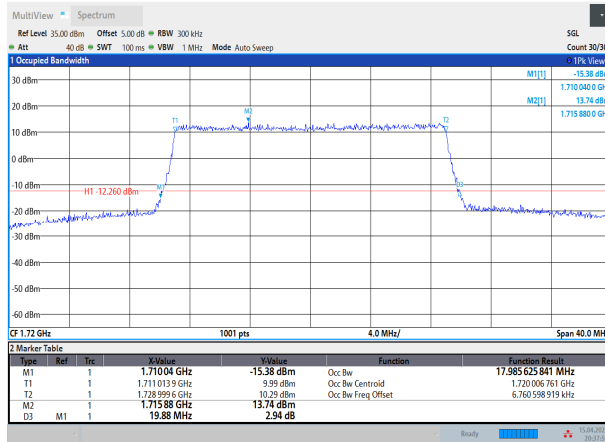
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Band4-20MHz-64QAM-20300-100RB#0



20:40:11 15.04.2022

Band4-20MHz-256QAM-20050-100RB#0



20:37:57 15.04.2022

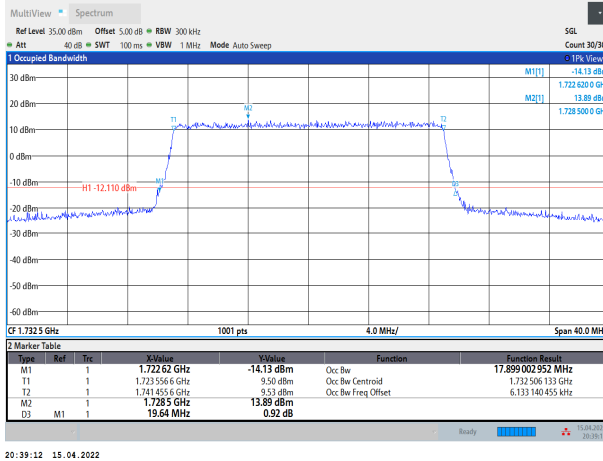


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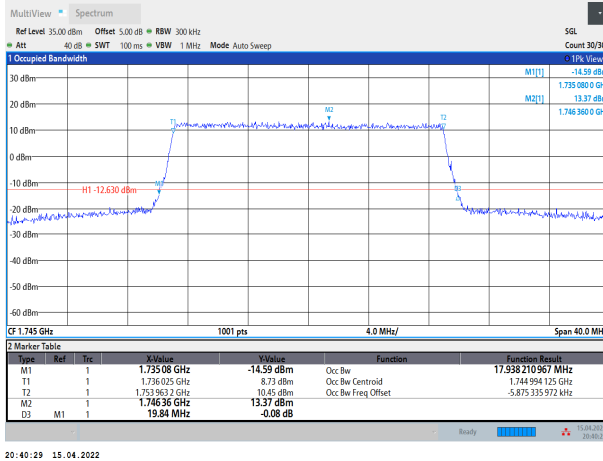
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Band4-20MHz-256QAM-20175-100RB#0



Band4-20MHz-256QAM-20300-100RB#0



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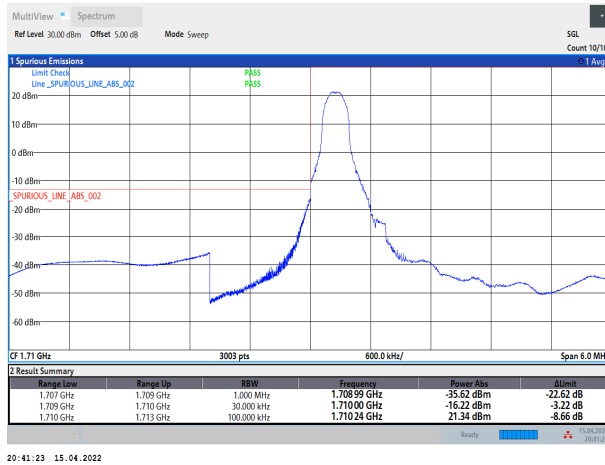
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## Band Edge

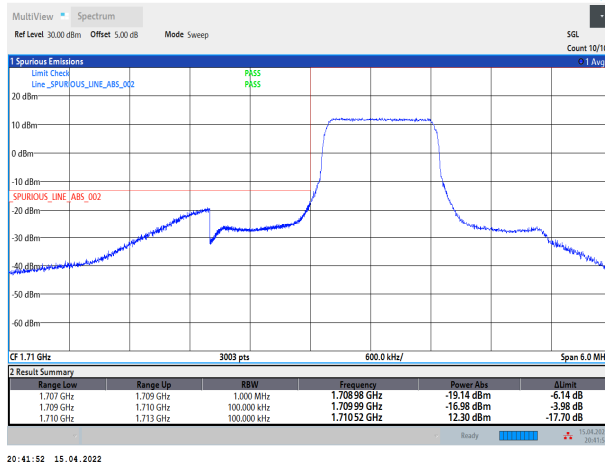
## Test Graphs

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



20:41:23 15. 04. 2022

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



20:41:52 15. 04. 2022

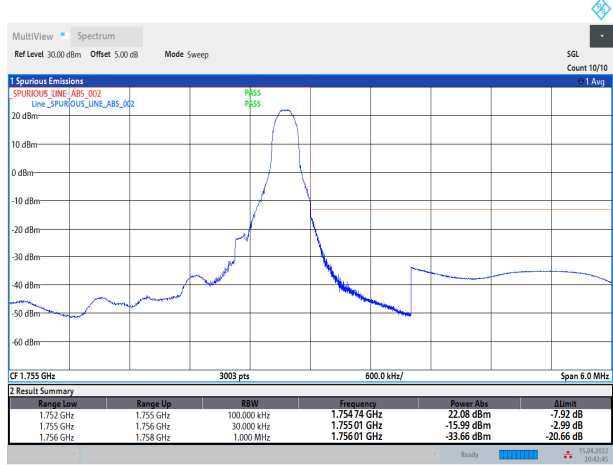


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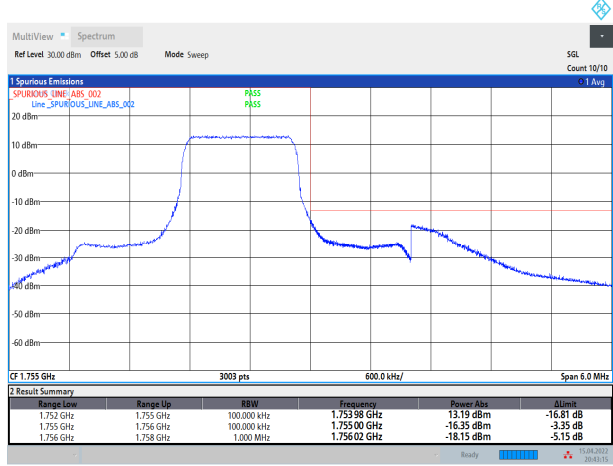
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Band4-1.4MHz-QPSK-20393-1RB#5



20:42:46 15.04.2022

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



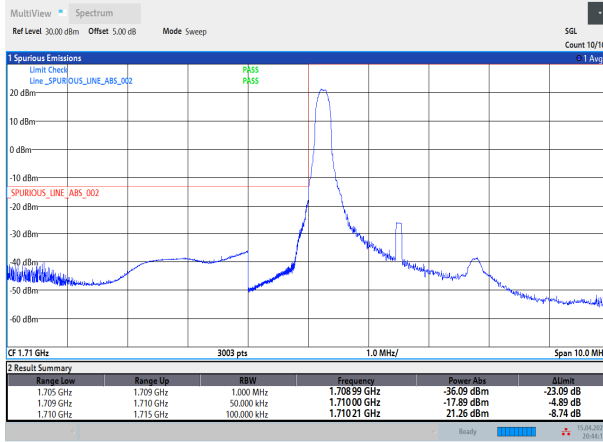
20:43:15 15.04.2022



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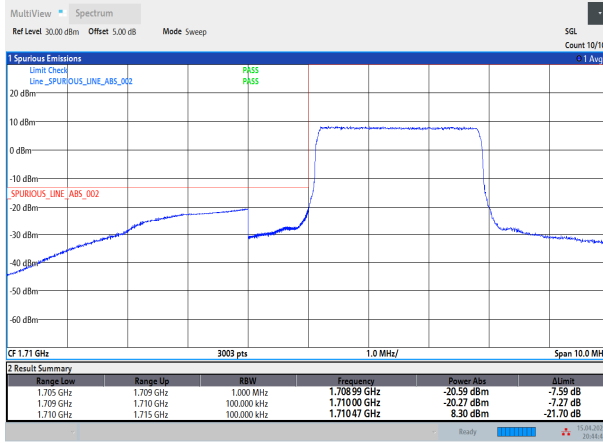
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Band4-3MHz-QPSK-19965-1RB#0



20:44:11 15.04.2022

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



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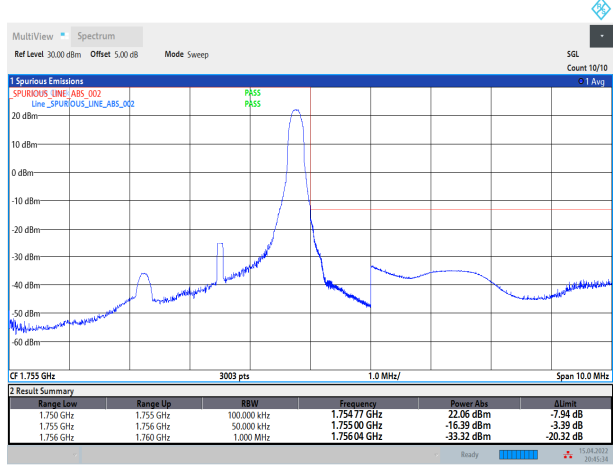


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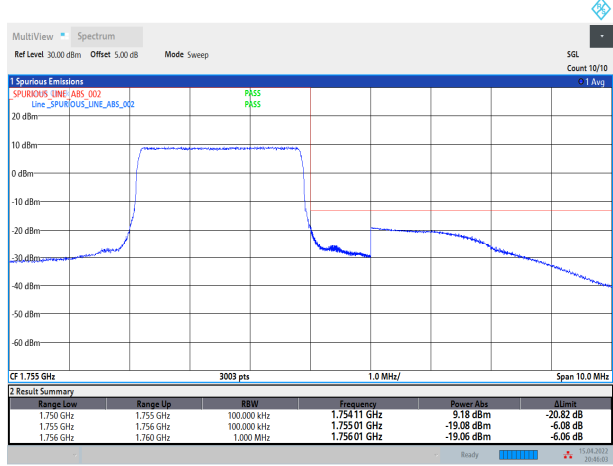
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Band4-3MHz-QPSK-20385-1RB#14



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



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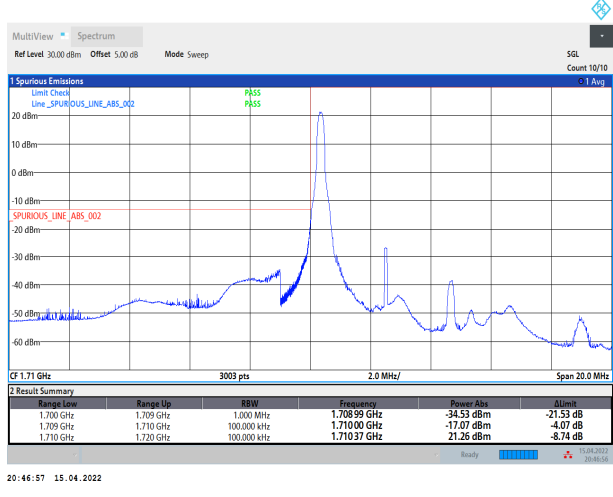


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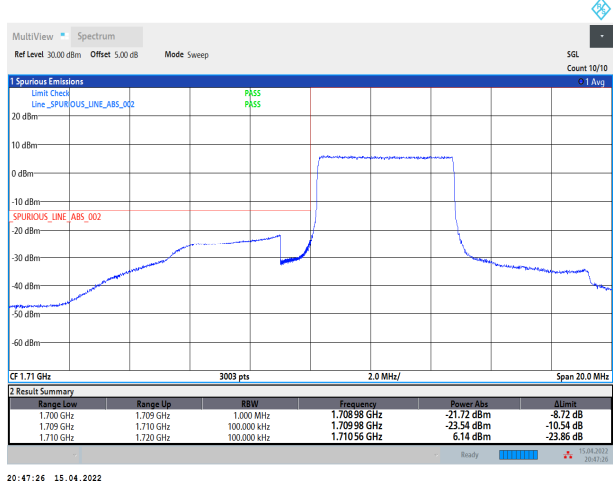
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Band4-5MHz-QPSK-19975-1RB#0



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

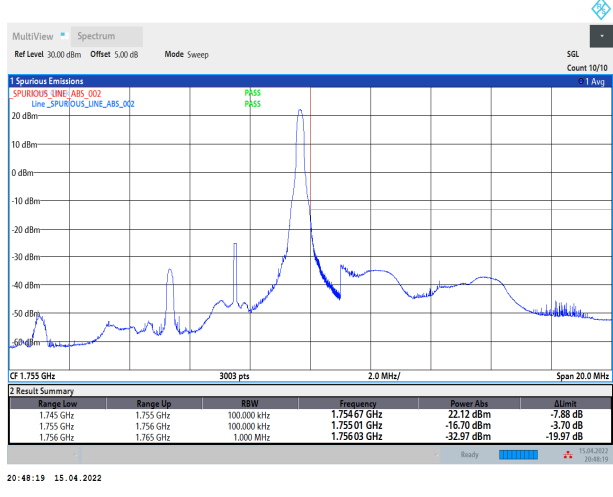


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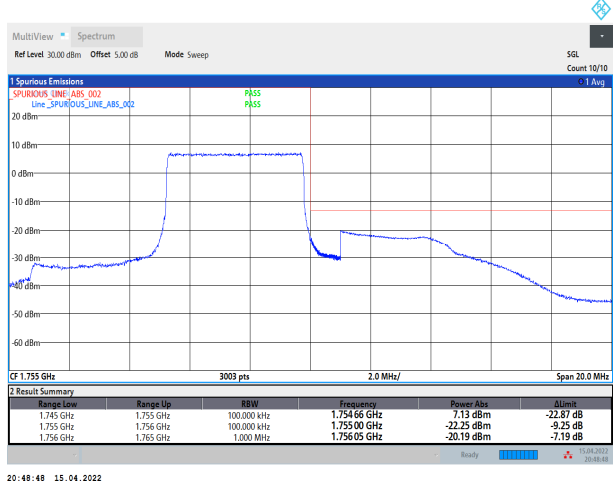
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Band4-5MHz-QPSK-20375-1RB#24



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

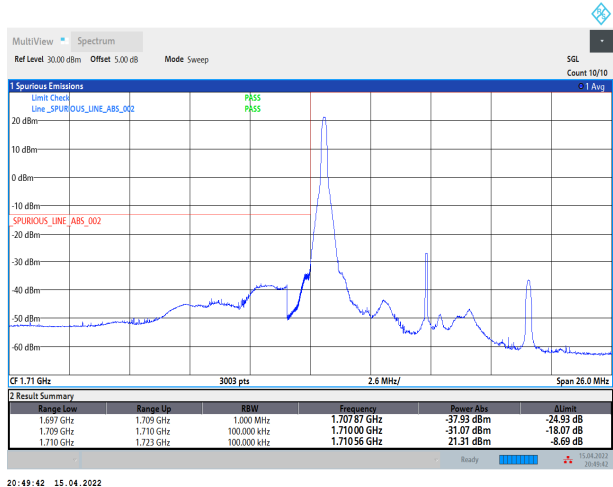


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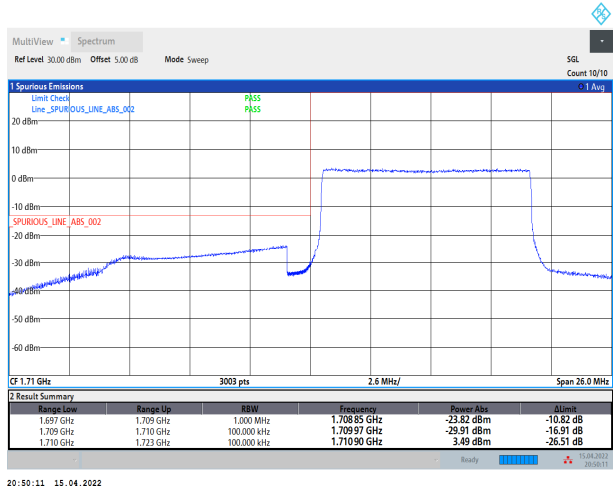
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Band4-10MHz-QPSK-20000-1RB#0



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

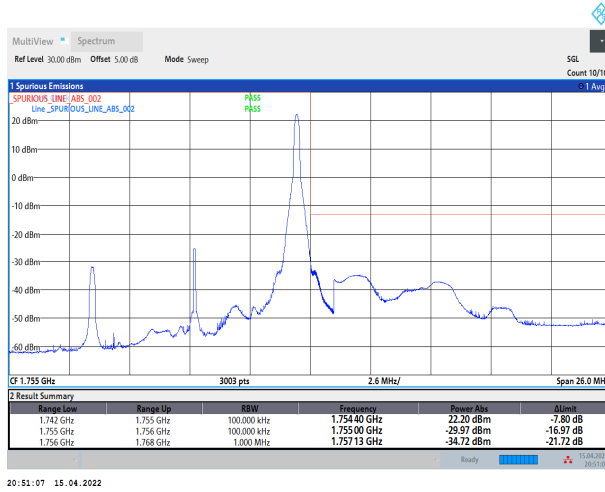


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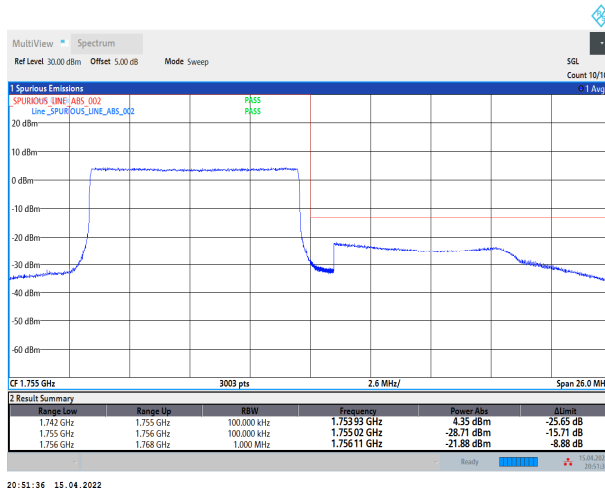
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Band4-10MHz-QPSK-20350-1RB#49



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



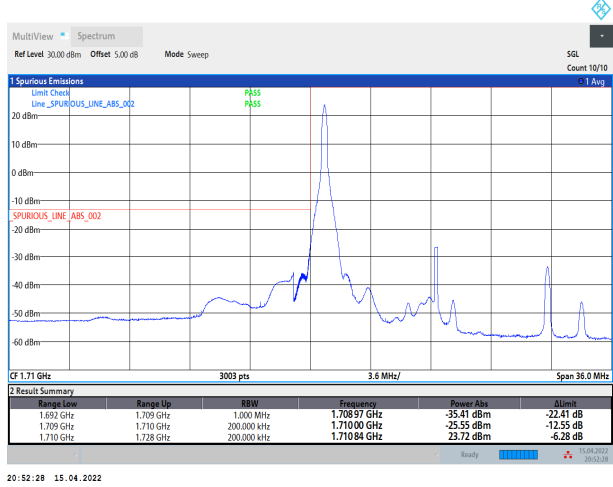
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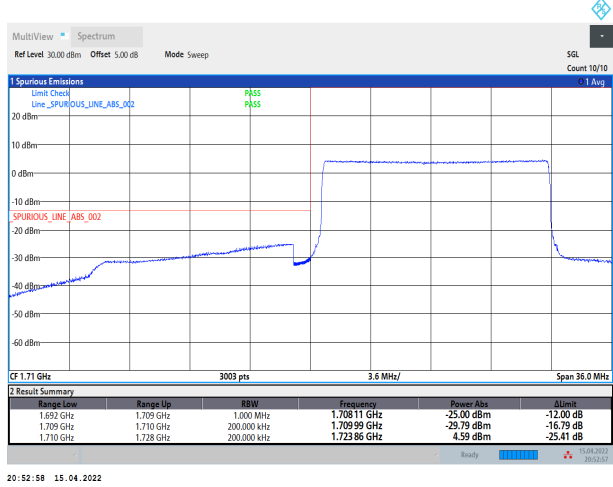
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Band4-15MHz-QPSK-20025-1RB#0



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

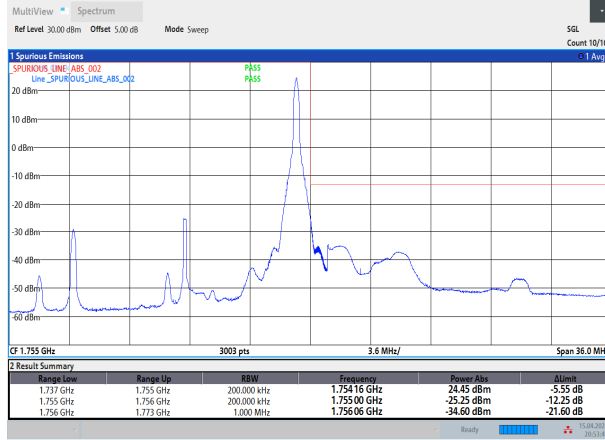


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Band4-15MHz-QPSK-20325-1RB#74



20:53:49 15.04.2022

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



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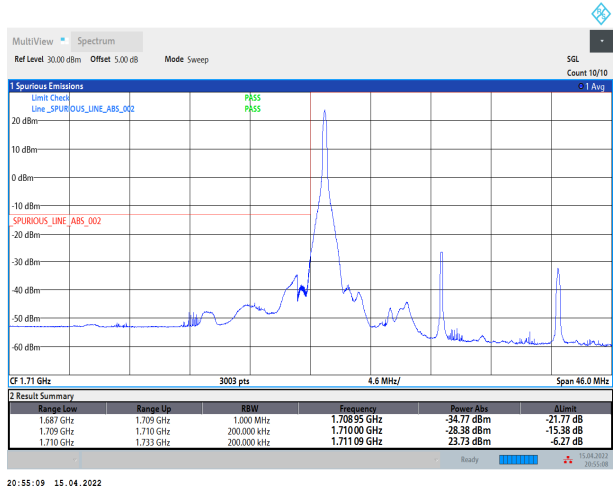


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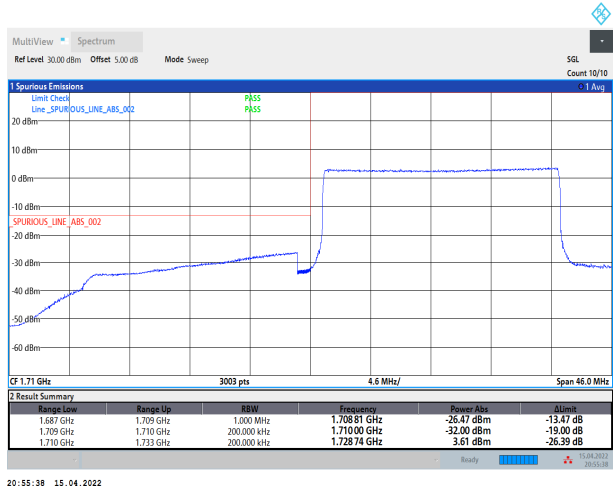
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Band4-20MHz-QPSK-20050-1RB#0



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

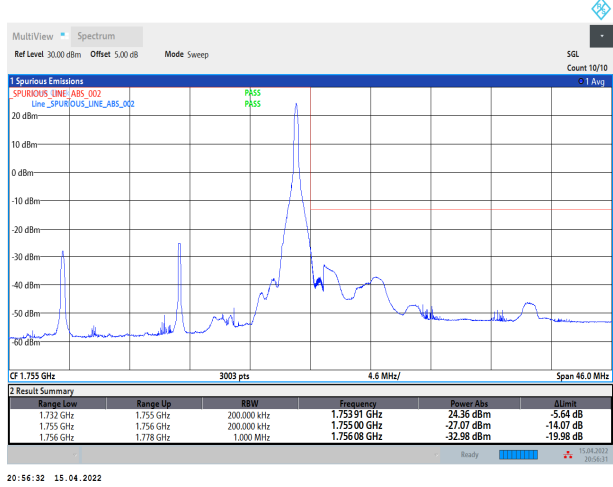


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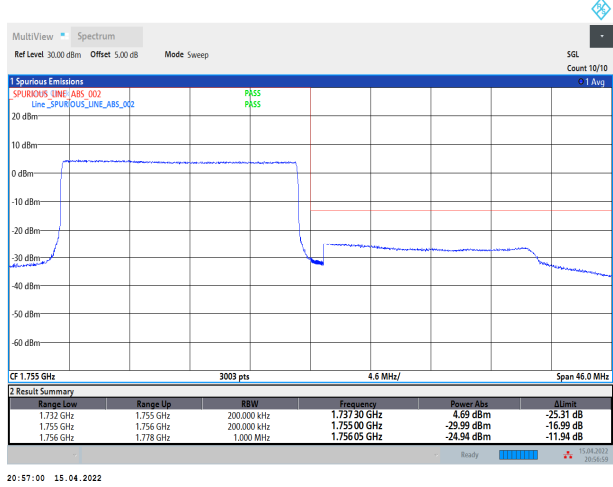
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Band4-20MHz-QPSK-20300-1RB#99



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



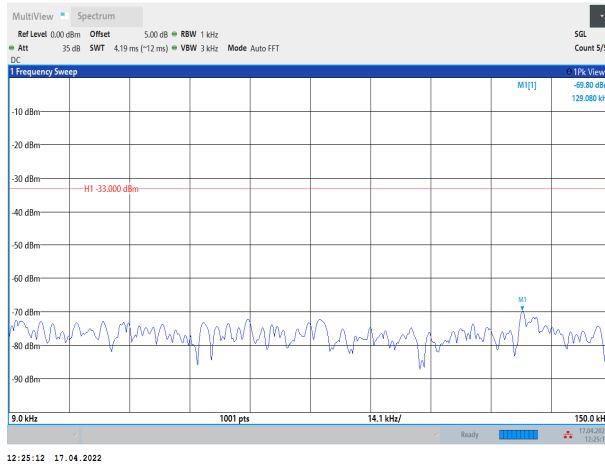
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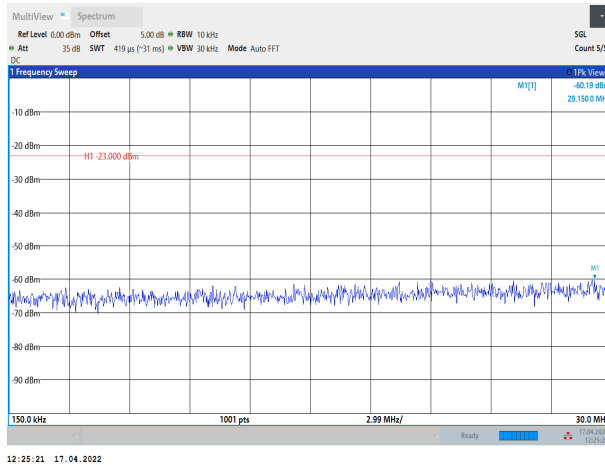
## Conducted Spurious Emission

### Test Graphs

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



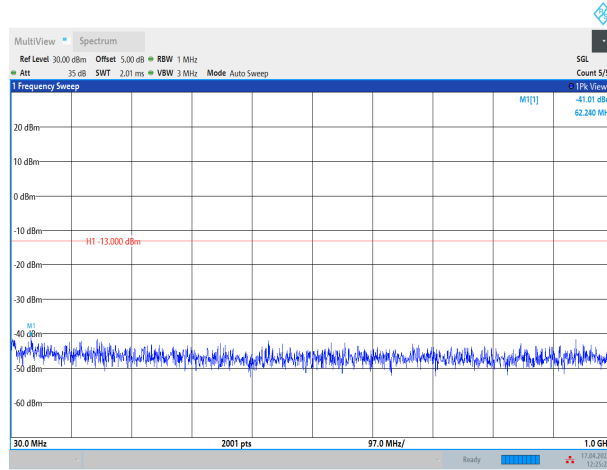
Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



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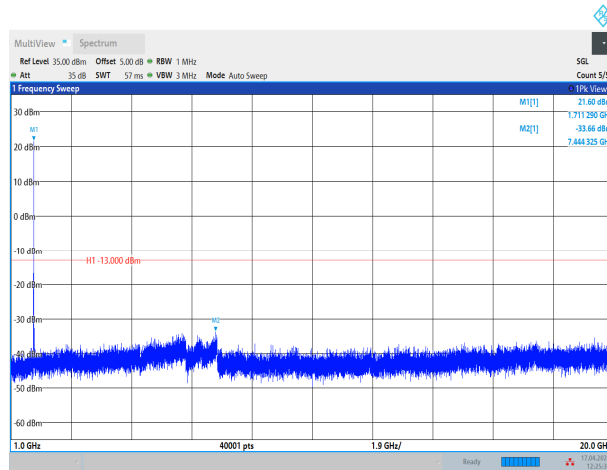
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



12:25:29 17.04.2022

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



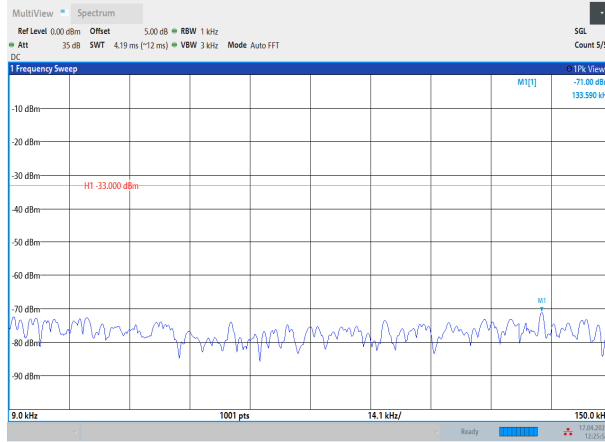
12:25:38 17.04.2022



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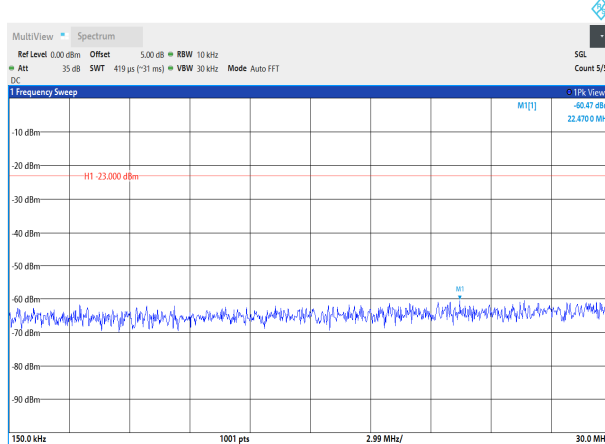
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



12:25:57 17.04.2022

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



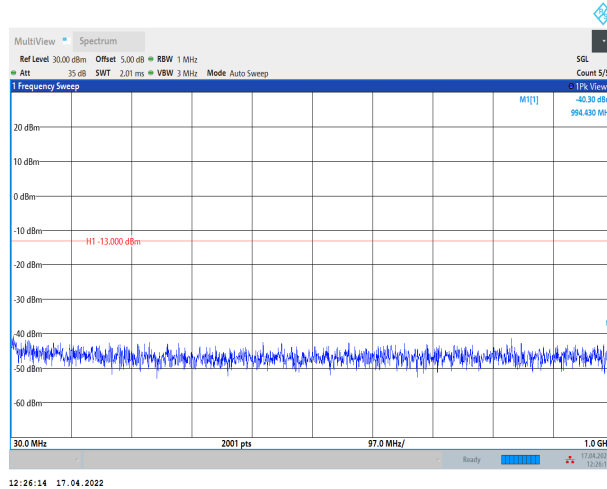
12:26:05 17.04.2022



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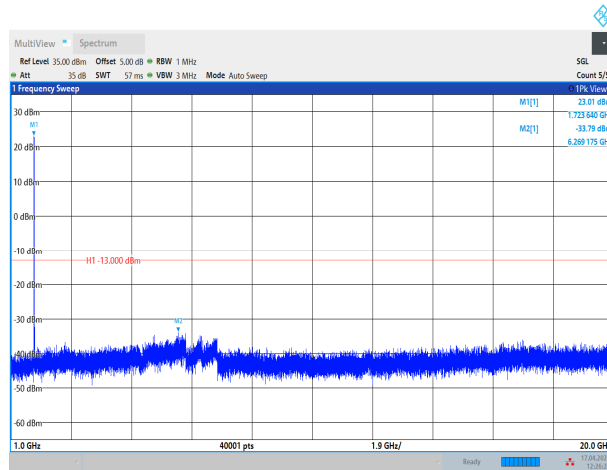
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



12:26:14 17.04.2022

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



12:26:23 17.04.2022

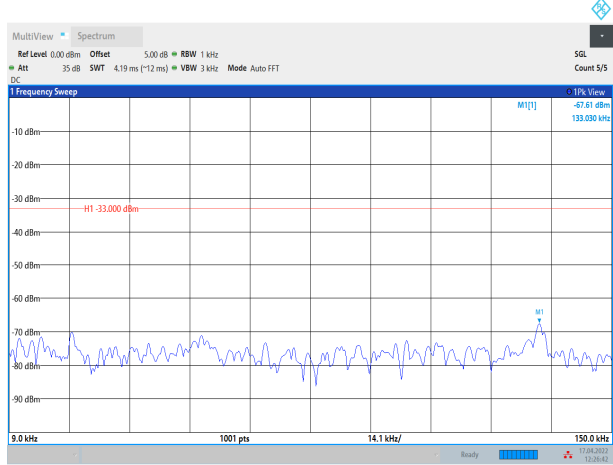


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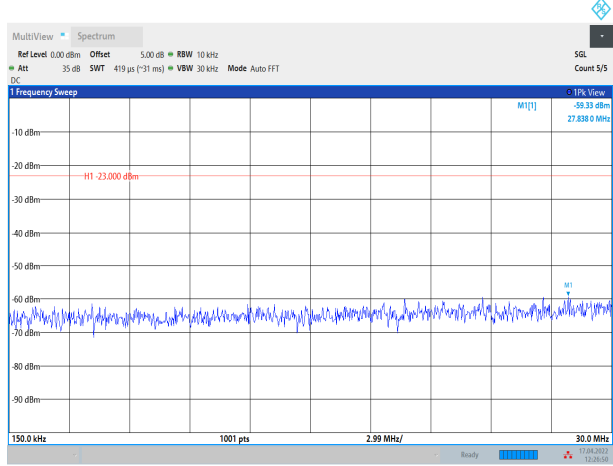


Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



12:26:42 17.04.2022

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



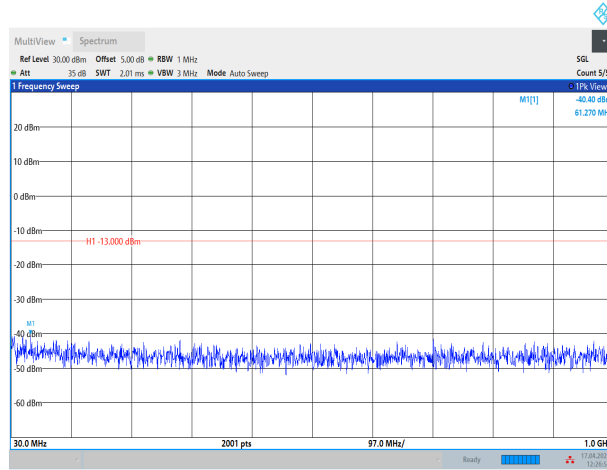
12:26:50 17.04.2022



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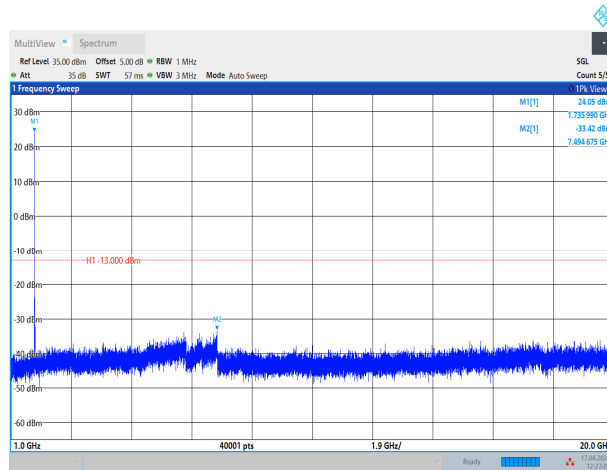
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



12:26:59 17.04.2022

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



12:27:08 17.04.2022



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## Field Strength of Spurious Radiation

Test Band = LTE Band 4\_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	44.86	-46.28	29.45	-67.23	-13.00	54.23	245	341	Horizontal
2	5133.2700	42.84	-45.34	32.95	-64.81	-13.00	51.81	136	267	Horizontal
3	6844.3600	42.47	-44.14	35.89	-61.04	-13.00	48.04	258	147	Horizontal
4	8555.4500	37.47	-41.46	37.66	-61.59	-13.00	48.59	144	117	Horizontal
5	10266.5400	35.03	-39.23	38.83	-60.63	-13.00	47.63	102	192	Horizontal
6	11977.6300	31.47	-37.51	38.95	-62.36	-13.00	49.36	190	58	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	44.18	-46.28	29.45	-67.91	-13.00	54.91	161	360	Vertical
2	5133.2700	45.92	-45.34	32.95	-61.73	-13.00	48.73	123	179	Vertical
3	6844.3600	45.68	-44.14	35.89	-57.83	-13.00	44.83	261	150	Vertical
4	8555.4500	38.35	-41.46	37.66	-60.71	-13.00	47.71	158	208	Vertical
5	10266.5400	34.24	-39.23	38.83	-61.42	-13.00	48.42	191	359	Vertical
6	11977.6300	31.56	-37.51	38.95	-62.27	-13.00	49.27	175	150	Vertical



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**Test Band = LTE Band 4\_ TM1**

**Test Channel = Mid Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	44.00	-46.27	29.47	-68.06	-13.00	55.06	222	344	Horizontal
2	5170.7700	42.85	-45.31	32.97	-64.74	-13.00	51.74	155	300	Horizontal
3	6894.3600	40.65	-44.10	35.95	-62.76	-13.00	49.76	147	283	Horizontal
4	8617.9500	38.98	-41.40	37.78	-59.90	-13.00	46.90	153	360	Horizontal
5	10341.5400	34.37	-39.06	38.85	-61.10	-13.00	48.10	259	120	Horizontal
6	12065.1300	31.70	-37.44	39.02	-61.98	-13.00	48.98	193	224	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	43.36	-46.27	29.47	-68.70	-13.00	55.70	245	44	Vertical
2	5170.7700	45.45	-45.31	32.97	-62.14	-13.00	49.14	133	192	Vertical
3	6894.3600	46.90	-44.10	35.95	-56.51	-13.00	43.51	259	149	Vertical
4	8617.9500	37.56	-41.40	37.78	-61.32	-13.00	48.32	175	357	Vertical
5	10341.5400	34.93	-39.06	38.85	-60.54	-13.00	47.54	142	360	Vertical
6	12065.1300	31.71	-37.44	39.02	-61.97	-13.00	48.97	162	352	Vertical



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

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	44.59	-46.27	29.50	-67.44	-13.00	54.44	201	342	Horizontal
2	5208.2700	41.81	-45.26	32.98	-65.73	-13.00	52.73	154	57	Horizontal
3	6944.3600	40.30	-43.85	36.01	-62.80	-13.00	49.80	175	4	Horizontal
4	8680.4500	38.17	-41.62	37.88	-60.83	-13.00	47.83	136	117	Horizontal
5	10416.5400	33.66	-38.97	38.88	-61.70	-13.00	48.70	259	360	Horizontal
6	12152.6300	32.75	-37.42	39.09	-60.84	-13.00	47.84	155	359	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	43.19	-46.27	29.50	-68.84	-13.00	55.84	215	43	Vertical
2	5208.2700	46.42	-45.26	32.98	-61.12	-13.00	48.12	148	165	Vertical
3	6944.3600	40.52	-43.85	36.01	-62.58	-13.00	49.58	156	179	Vertical
4	8680.4500	38.45	-41.62	37.88	-60.55	-13.00	47.55	299	360	Vertical
5	10416.5400	33.91	-38.97	38.88	-61.45	-13.00	48.45	182	165	Vertical
6	12152.6300	31.87	-37.42	39.09	-61.72	-13.00	48.72	302	283	Vertical



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Test Band = UL CA Band 2A-4A\_TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	49.70	-111.71	-62.01	-13.00	49.01	263	3	Horizontal
2	3702.18	50.31	-111.07	-60.76	-13.00	47.76	251	341	Horizontal
3	5133.27	50.07	-106.90	-56.83	-13.00	43.83	174	32	Horizontal
4	5553.27	49.42	-106.36	-56.94	-13.00	43.94	186	113	Horizontal
5	6844.36	48.53	-101.87	-53.34	-13.00	40.34	264	113	Horizontal
6	7404.36	47.66	-100.78	-53.12	-13.00	40.12	188	291	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	50.22	-111.71	-61.49	-13.00	48.49	263	360	Vertical
2	3702.18	50.74	-111.07	-60.33	-13.00	47.33	145	247	Vertical
3	5133.27	48.99	-106.90	-57.91	-13.00	44.91	264	66	Vertical
4	5553.27	49.54	-106.36	-56.82	-13.00	43.82	177	166	Vertical
5	6844.36	47.57	-101.87	-54.30	-13.00	41.30	263	314	Vertical
6	7404.36	49.11	-100.78	-51.67	-13.00	38.67	210	297	Vertical



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Test Band = UL CA Band 2A-4A\_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	50.41	-111.65	-61.24	-13.00	48.24	163	116	Horizontal
2	3742.18	52.01	-110.86	-58.85	-13.00	45.85	251	352	Horizontal
3	5170.77	49.60	-106.85	-57.25	-13.00	44.25	176	229	Horizontal
4	5613.27	49.64	-106.14	-56.50	-13.00	43.50	265	343	Horizontal
5	6894.36	47.20	-101.71	-54.51	-13.00	41.51	185	49	Horizontal
6	7484.36	47.67	-100.43	-52.76	-13.00	39.76	144	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	50.05	-111.65	-61.60	-13.00	48.60	263	360	Vertical
2	3742.18	50.94	-110.86	-59.92	-13.00	46.92	241	326	Vertical
3	5170.77	50.53	-106.85	-56.32	-13.00	43.32	176	131	Vertical
4	5613.27	50.28	-106.14	-55.86	-13.00	42.86	284	360	Vertical
5	6894.36	48.63	-101.71	-53.08	-13.00	40.08	196	179	Vertical
6	7484.36	49.13	-100.43	-51.30	-13.00	38.30	241	47	Vertical



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**Test Band = UL CA Band 2A-4A\_ TM1**

**Test Channel = High Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	49.65	-111.61	-61.96	-13.00	48.96	281	360	Horizontal
2	3782.18	50.87	-110.66	-59.79	-13.00	46.79	263	162	Horizontal
3	5208.27	50.22	-106.80	-56.58	-13.00	43.58	174	344	Horizontal
4	5673.27	49.60	-105.88	-56.28	-13.00	43.28	248	358	Horizontal
5	6944.36	47.74	-101.67	-53.93	-13.00	40.93	126	359	Horizontal
6	7564.36	48.58	-100.01	-51.43	-13.00	38.43	196	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	49.75	-111.61	-61.86	-13.00	48.86	264	342	Vertical
2	3782.18	50.61	-110.66	-60.05	-13.00	47.05	263	31	Vertical
3	5208.27	49.65	-106.80	-57.15	-13.00	44.15	188	342	Vertical
4	5673.27	49.55	-105.88	-56.33	-13.00	43.33	214	194	Vertical
5	6944.36	46.68	-101.67	-54.99	-13.00	41.99	174	162	Vertical
6	7564.36	48.97	-100.01	-51.04	-13.00	38.04	123	179	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-2.30	-0.001328	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-1.20	-0.000693	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-2.20	-0.001270	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	0.00	0.000000	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-2.20	-0.001270	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-2.00	-0.001154	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.10	-0.000058	PASS

---End of Attachment---



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