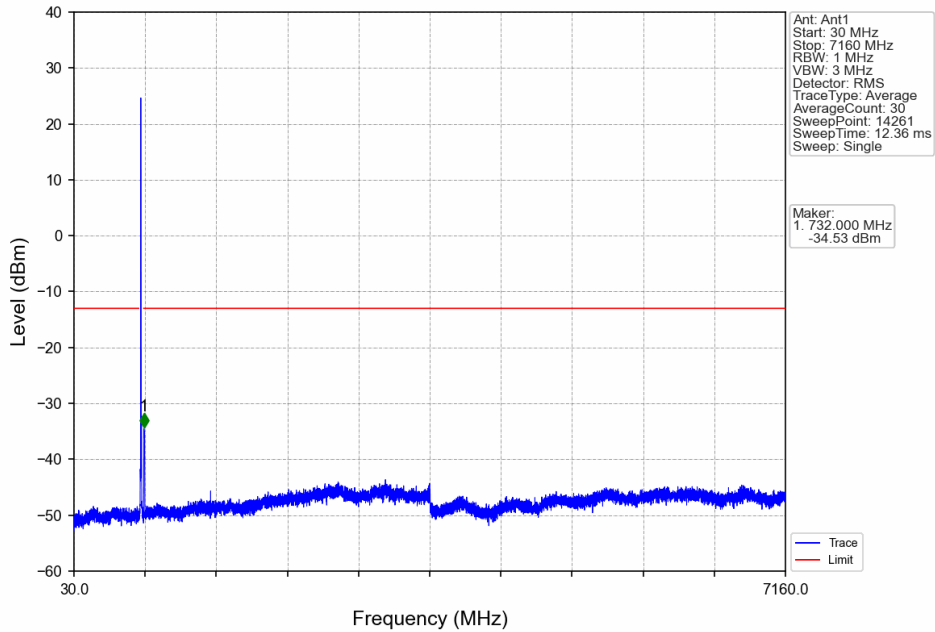




Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



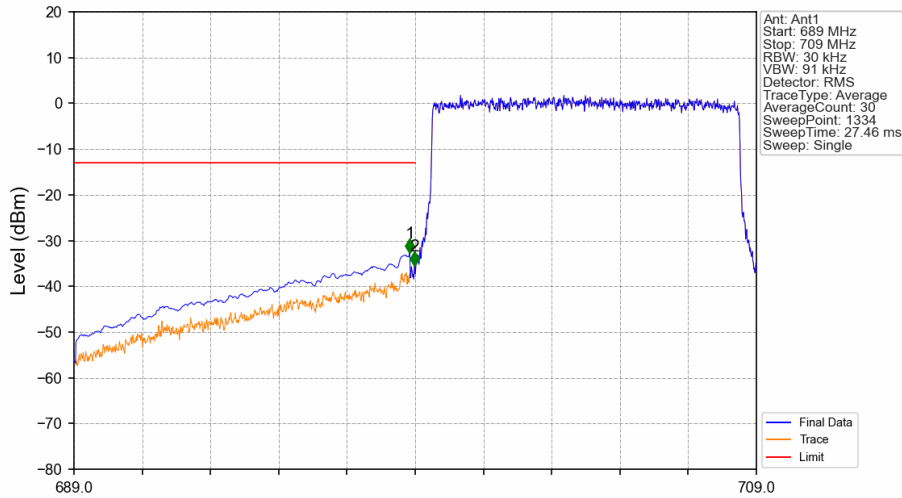
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Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-32.77	-13	Pass
698.9	699	0.03	/	2	698.977	-35.62	-13	Pass
699	709	0.03	/	/	/	/	/	/



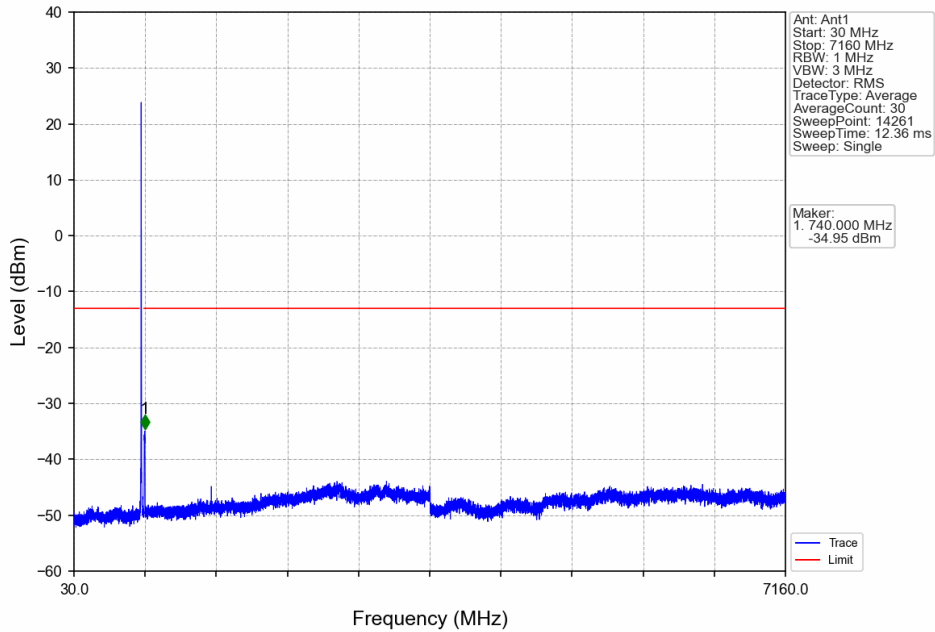
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



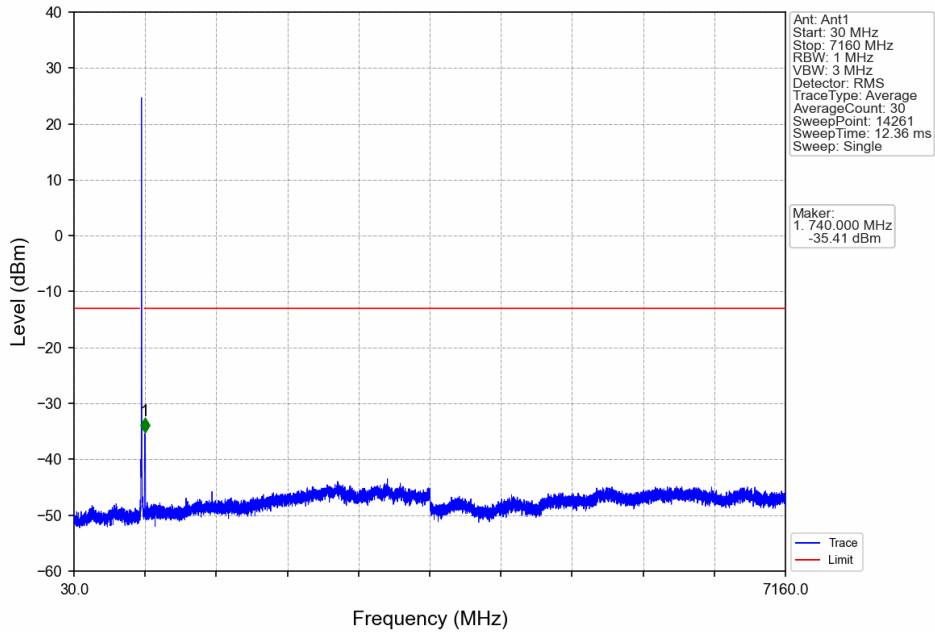
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Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

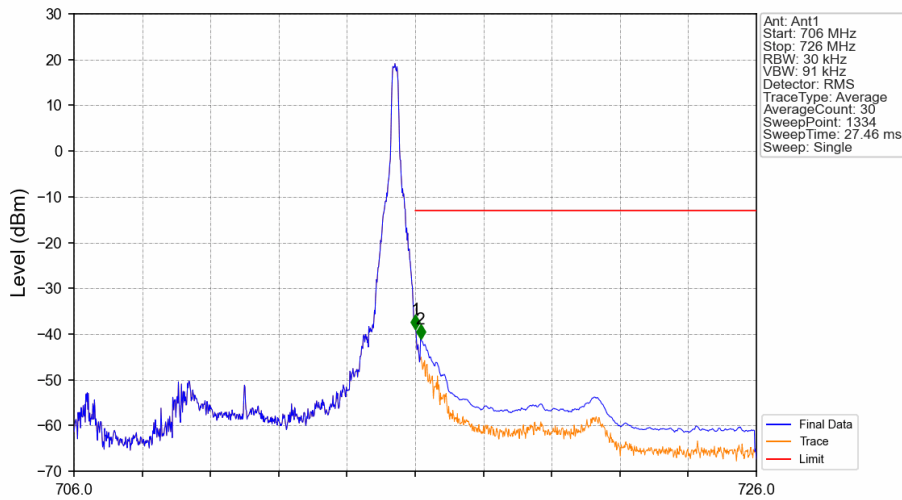


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Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-38.91	-13	Pass
716.1	726	0.1	CHP	2	716.158	-41.08	-13	Pass

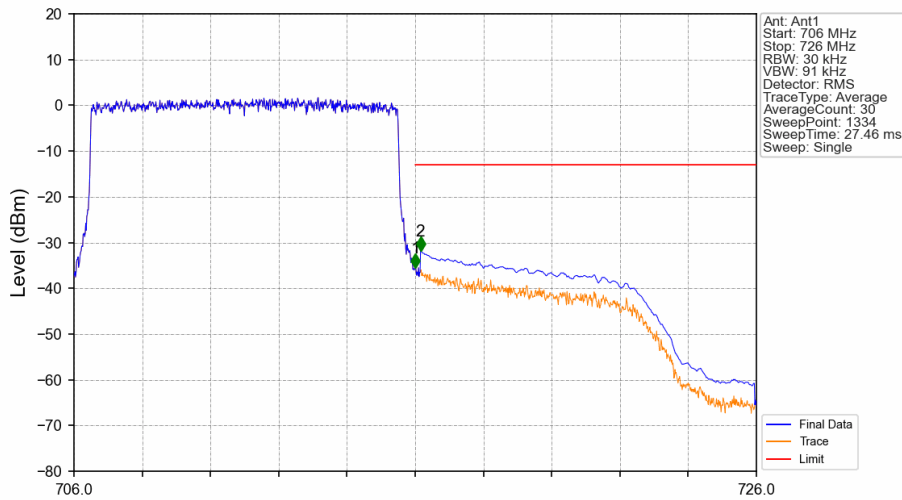


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Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716.1	716.1	0.03	/	1	716.008	-35.50	-13	Pass
716.1	726	0.1	CHP	2	716.158	-31.89	-13	Pass

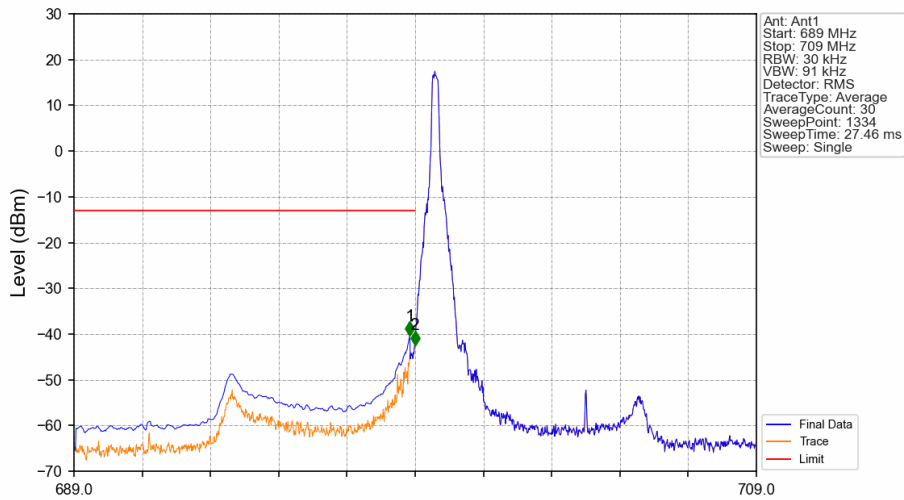


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Band12_10MHz_64QAM_LCH_704MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	699	0.1	CHP	1	698.842	-40.42	-13	Pass
698.9	699	0.03	/	2	698.992	-42.40	-13	Pass
699	709	0.03	/	/	/	/	/	/

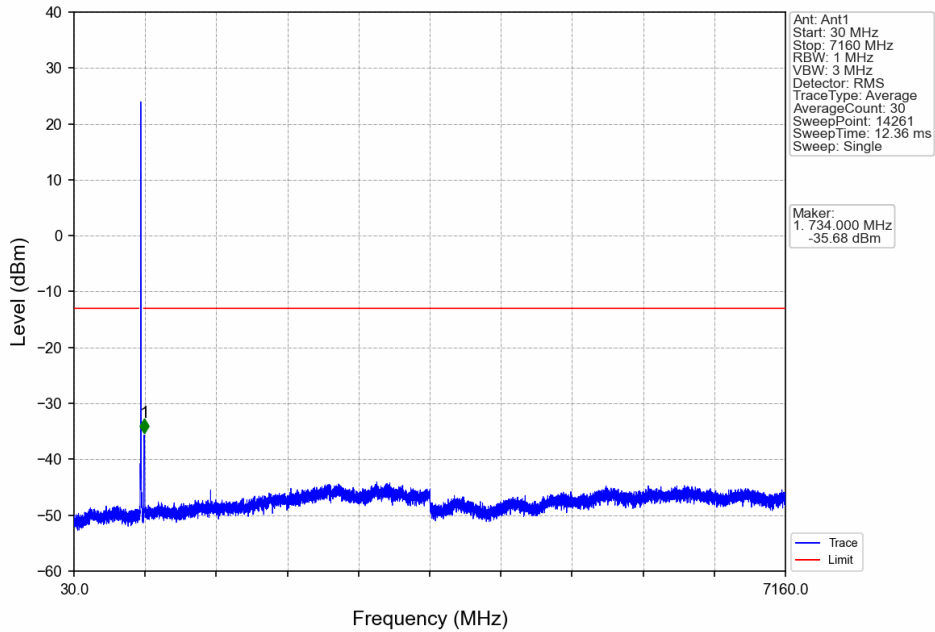


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Band12_10MHz_64QAM_LCH_704MHz_RB_1_0_NTNV

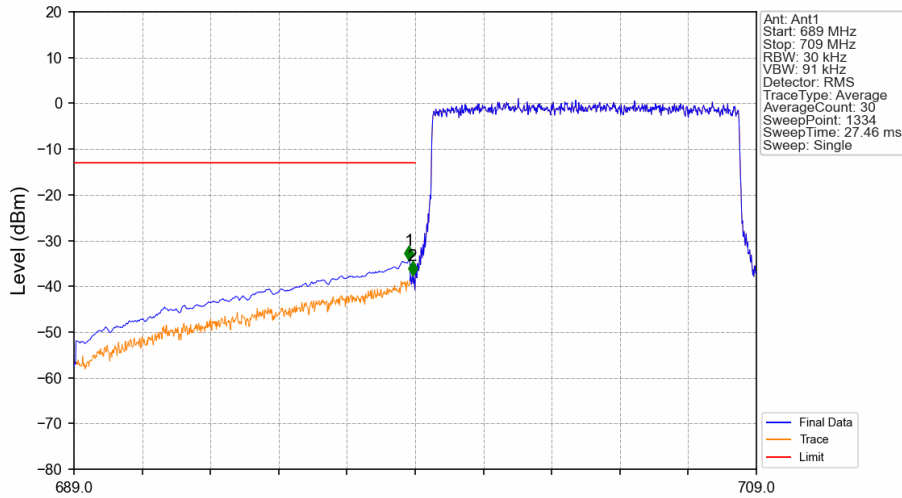


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Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.812	-34.30	-13	Pass
698.9	699	0.03	/	2	698.917	-37.68	-13	Pass
699	709	0.03	/	/	/	/	/	/



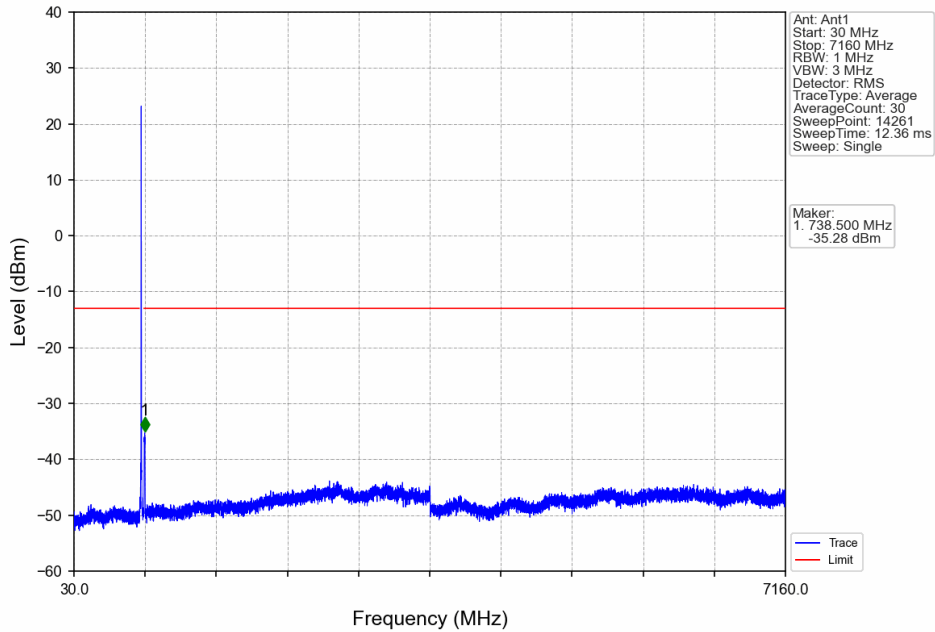
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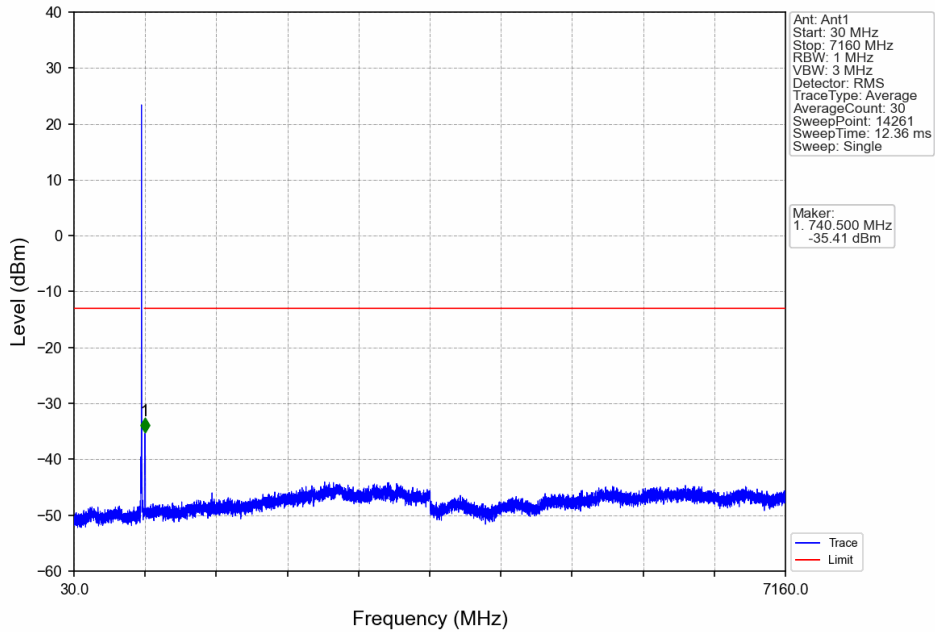
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Band12_10MHz_64QAM_HCH_711MHz_RB_1_0_NTNV

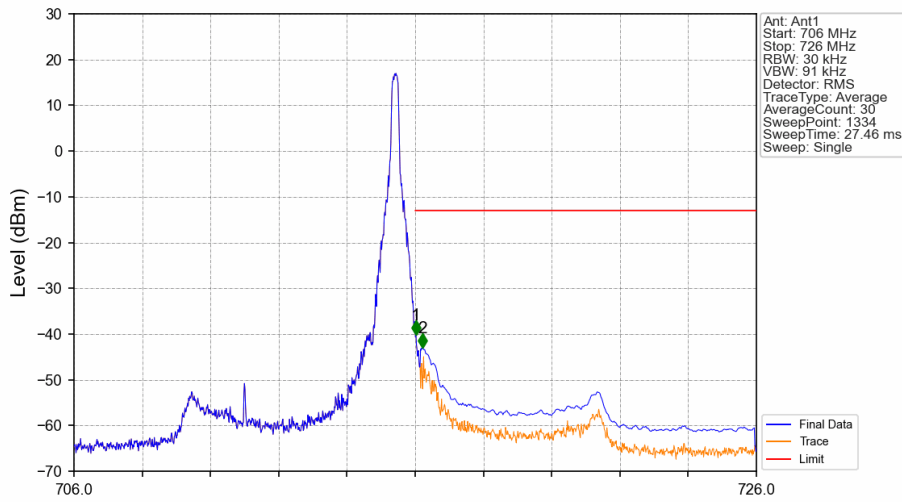


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Band12_10MHz_64QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-40.27	-13	Pass
716.1	726	0.1	CHP	2	716.218	-43.07	-13	Pass

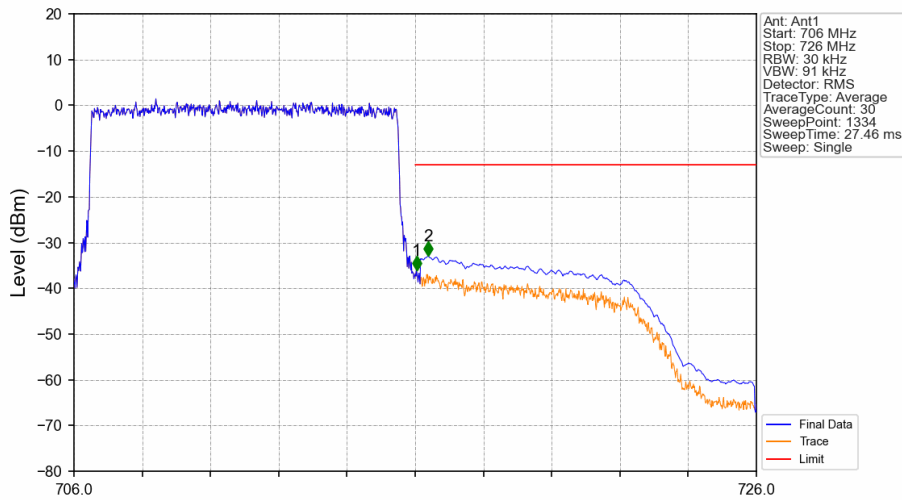


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Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716.1	716.1	0.03	/	1	716.038	-36.16	-13	Pass
716.1	726	0.1	CHP	2	716.383	-32.96	-13	Pass



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5. Effective (Isotropic) Radiated Power Output Data

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.38	20.91	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.60	21.13	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.39	20.92	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.54	20.07	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.50	21.03	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.78	21.31	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.60	21.13	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.64	20.17	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.46	20.99	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.62	21.15	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.60	21.13	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.62	20.15	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.75	20.28	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.80	20.33	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.74	20.27	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.61	19.14	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.88	20.41	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.97	20.5	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.93	20.46	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.69	19.22	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.79	20.32	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.00	20.53	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.84	20.37	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.72	19.25	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.58	19.11	34.77	PASS



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Band12	1.4MHz	64QAM	23017	1RB#2	21.75	19.28	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.67	19.2	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.57	18.1	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.71	19.24	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.96	19.49	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.87	19.4	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.62	18.15	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.67	19.2	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.86	19.39	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.76	19.29	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.53	18.06	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.53	21.06	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.58	21.11	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.47	21	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.62	20.15	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.65	21.18	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.74	21.27	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.67	21.2	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.73	20.26	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.67	21.2	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.67	21.2	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.65	21.18	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.73	20.26	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.93	20.46	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.89	20.42	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.76	20.29	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.76	19.29	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.88	20.41	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.08	20.61	34.77	PASS



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Band12	3MHz	16QAM	23095	1RB#14	23.12	20.65	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.83	19.36	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.94	20.47	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.99	20.52	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.94	20.47	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.73	19.26	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.73	19.26	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.79	19.32	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.79	19.32	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.62	18.15	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.83	19.36	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.98	19.51	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.90	19.43	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.74	18.27	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.98	19.51	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.89	19.42	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.88	19.41	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.75	18.28	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.52	21.05	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.57	21.1	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.49	21.02	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.70	20.23	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.58	21.11	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.69	21.22	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.63	21.16	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.72	20.25	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.66	21.19	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.66	21.19	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.63	21.16	34.77	PASS



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Band12	5MHz	QPSK	23155	25RB#0	22.63	20.16	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.85	20.38	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.87	20.4	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.79	20.32	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.68	19.21	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.95	20.48	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.84	20.37	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.00	20.53	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.76	19.29	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.93	20.46	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.07	20.6	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.96	20.49	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.72	19.25	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.77	19.3	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.78	19.31	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.86	19.39	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.72	18.25	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.84	19.37	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.97	19.5	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.91	19.44	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.82	18.35	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.82	19.35	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.89	19.42	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.95	19.48	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.73	18.26	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.55	21.08	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.62	21.15	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.56	21.09	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.62	20.15	34.77	PASS



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Band12	10MHz	QPSK	23095	1RB#0	23.54	21.07	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.60	21.13	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.79	21.32	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.60	20.13	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.58	21.11	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.56	21.09	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.67	21.2	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.73	20.26	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.89	20.42	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.99	20.52	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.92	20.45	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.64	19.17	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.97	20.5	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.15	20.68	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.96	20.49	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.64	19.17	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.04	20.57	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.99	20.52	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.96	20.49	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.73	19.26	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.72	19.25	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.78	19.31	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.97	19.5	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.64	18.17	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.89	19.42	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.87	19.4	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.91	19.44	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.70	18.23	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.74	19.27	34.77	PASS



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Band12	10MHz	64QAM	23130	1RB#49	21.91	19.44	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.70	18.23	34.77	PASS



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Member of the SGS Group (SGS SA)

6. Field Strength of Spurious Radiation

Test Band = LTE Band12_ TM1
 Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	43.58	-48.00	25.10	-74.58	-13.00	61.58	Horizontal
2	2098.7700	42.38	-47.71	26.18	-74.42	-13.00	61.42	Horizontal
3	2798.3600	42.55	-46.92	27.90	-71.73	-13.00	58.73	Horizontal
4	3497.9500	42.13	-46.54	28.60	-71.07	-13.00	58.07	Horizontal
5	4197.5400	40.36	-45.96	29.57	-71.28	-13.00	58.28	Horizontal
6	4897.1300	40.97	-45.58	31.17	-68.70	-13.00	55.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	43.69	-48.00	25.10	-74.47	-13.00	61.47	Vertical
2	2098.7700	42.69	-47.71	26.18	-74.11	-13.00	61.11	Vertical
3	2798.3600	42.35	-46.92	27.90	-71.93	-13.00	58.93	Vertical
4	3497.9500	42.78	-46.54	28.60	-70.42	-13.00	57.42	Vertical
5	4197.5400	40.40	-45.96	29.57	-71.24	-13.00	58.24	Vertical
6	4897.1300	41.55	-45.58	31.17	-68.12	-13.00	55.12	Vertical



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Test Band = LTE Band12_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	43.84	-48.02	25.10	-74.34	-13.00	61.34	Horizontal
2	2109.2700	43.07	-47.71	26.21	-73.69	-13.00	60.69	Horizontal
3	2812.3600	42.31	-46.88	27.93	-71.90	-13.00	58.90	Horizontal
4	3515.4500	41.48	-46.51	28.62	-71.67	-13.00	58.67	Horizontal
5	4218.5400	40.95	-45.93	29.63	-70.61	-13.00	57.61	Horizontal
6	4921.6300	41.45	-45.63	31.23	-68.21	-13.00	55.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	43.79	-48.02	25.10	-74.39	-13.00	61.39	Vertical
2	2109.2700	42.59	-47.71	26.21	-74.17	-13.00	61.17	Vertical
3	2812.3600	42.47	-46.88	27.93	-71.74	-13.00	58.74	Vertical
4	3515.4500	42.19	-46.51	28.62	-70.96	-13.00	57.96	Vertical
5	4218.5400	40.76	-45.93	29.63	-70.80	-13.00	57.80	Vertical
6	4921.6300	41.73	-45.63	31.23	-67.93	-13.00	54.93	Vertical



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Test Band = LTE Band12_ TM1
Test Channel = High

Table with 9 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of data for horizontal polarization.

Table with 9 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of data for vertical polarization.

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

---End of Attachment---



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