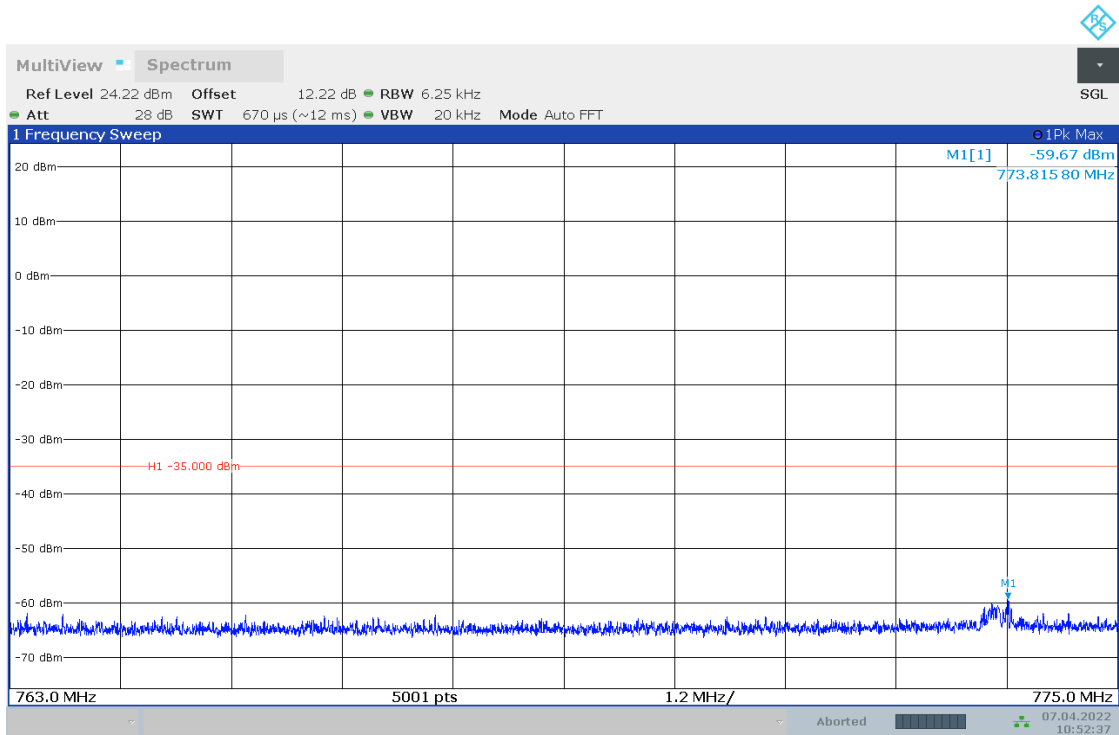
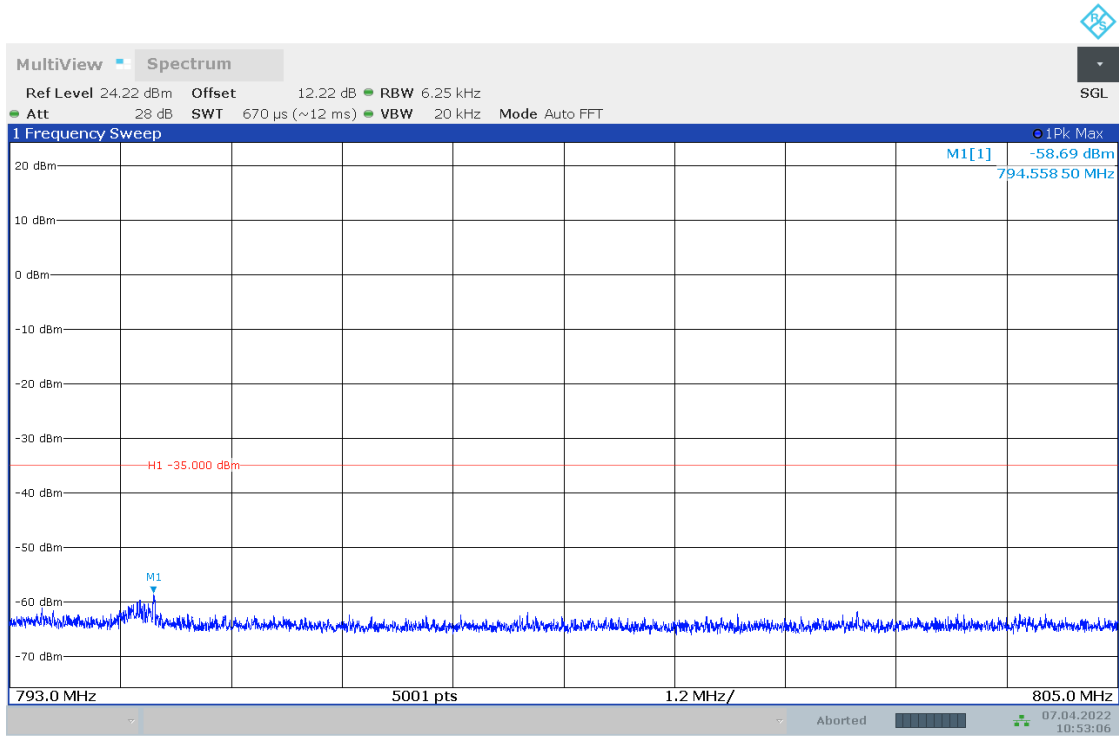


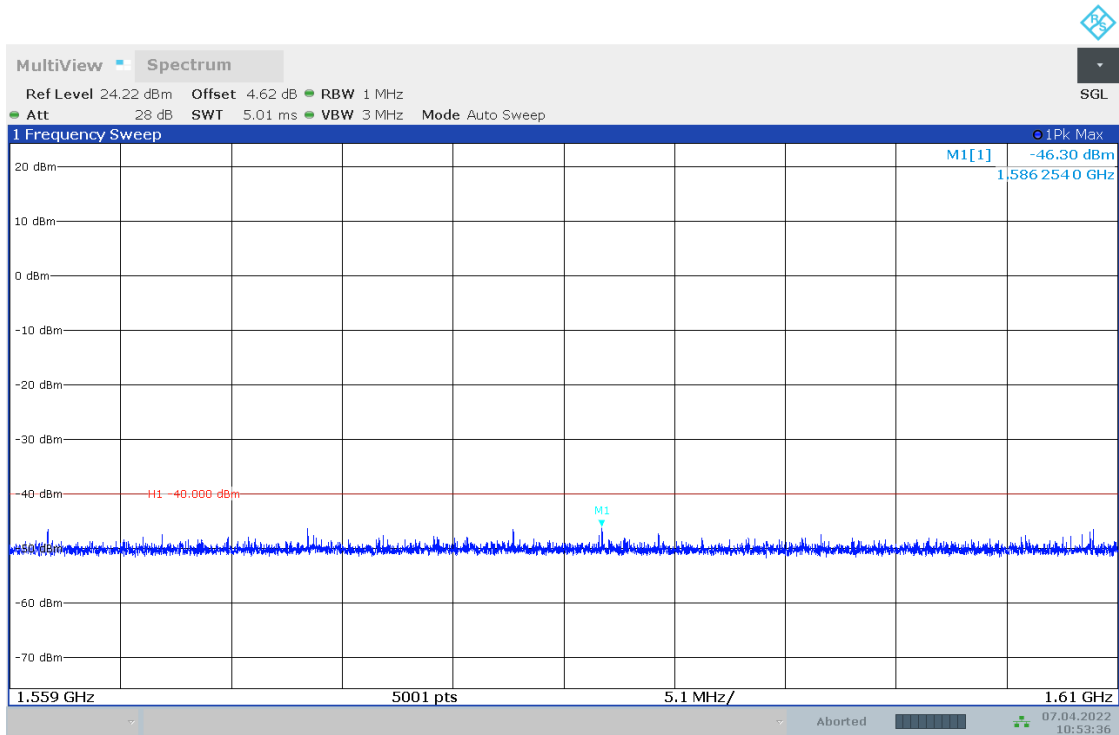
10:52:08 07.04.2022



10:52:37 07.04.2022

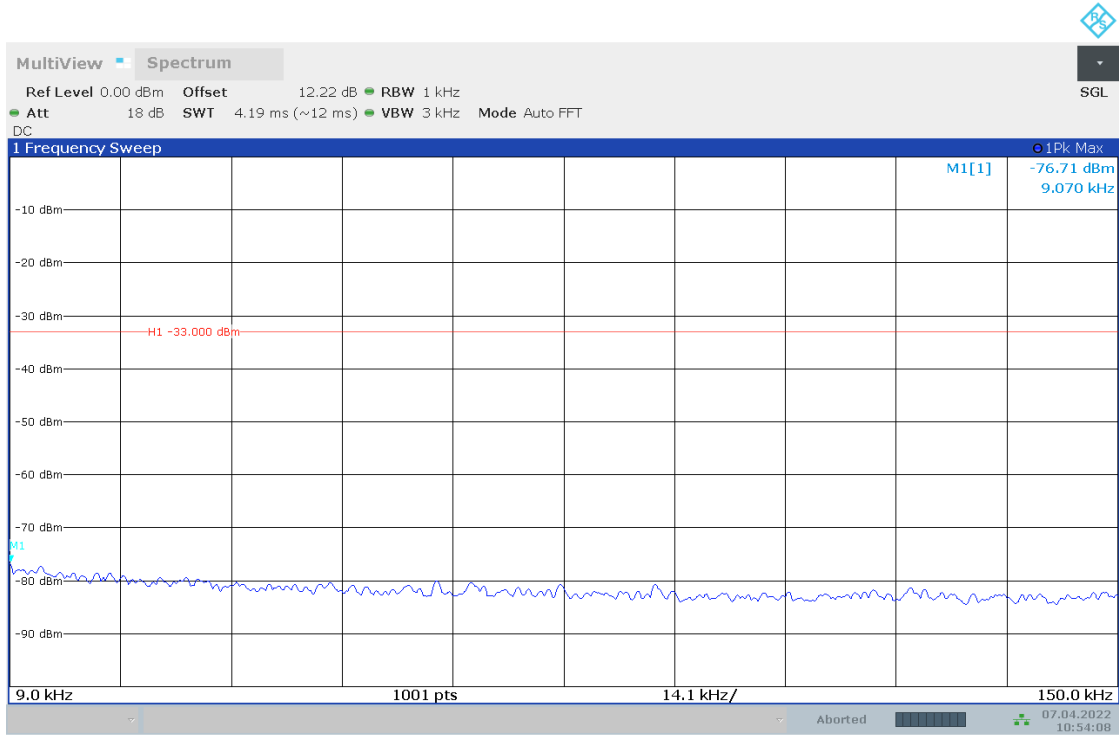


10:53:07 07.04.2022

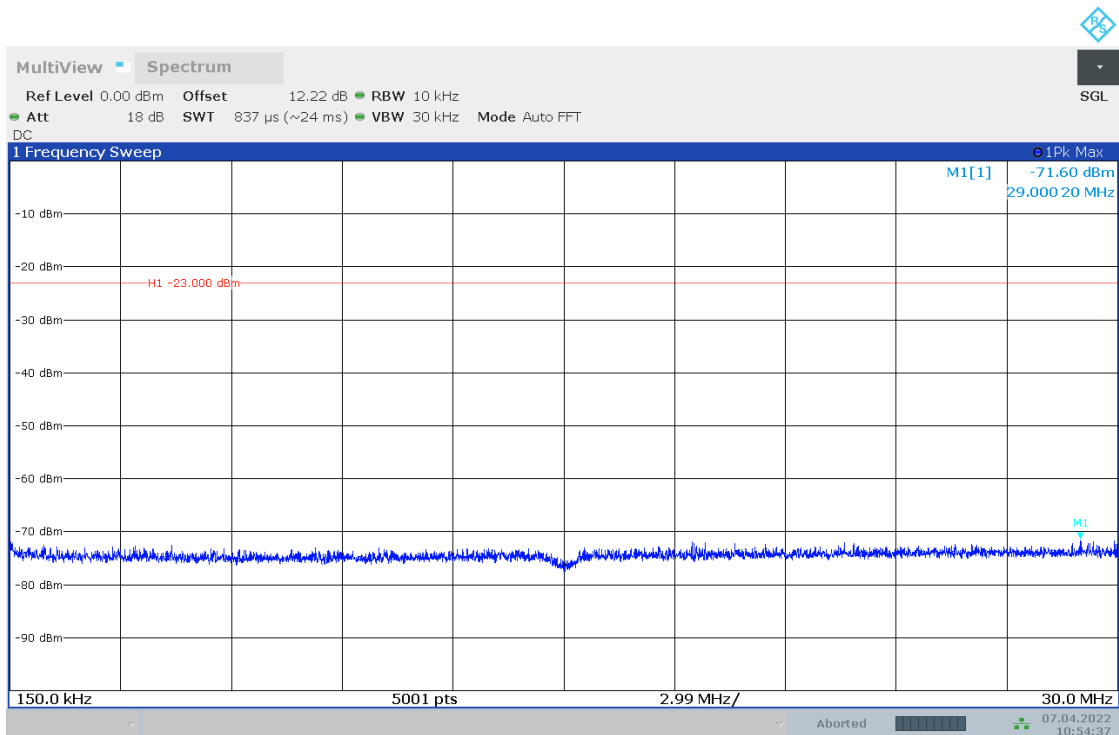


10:53:36 07.04.2022

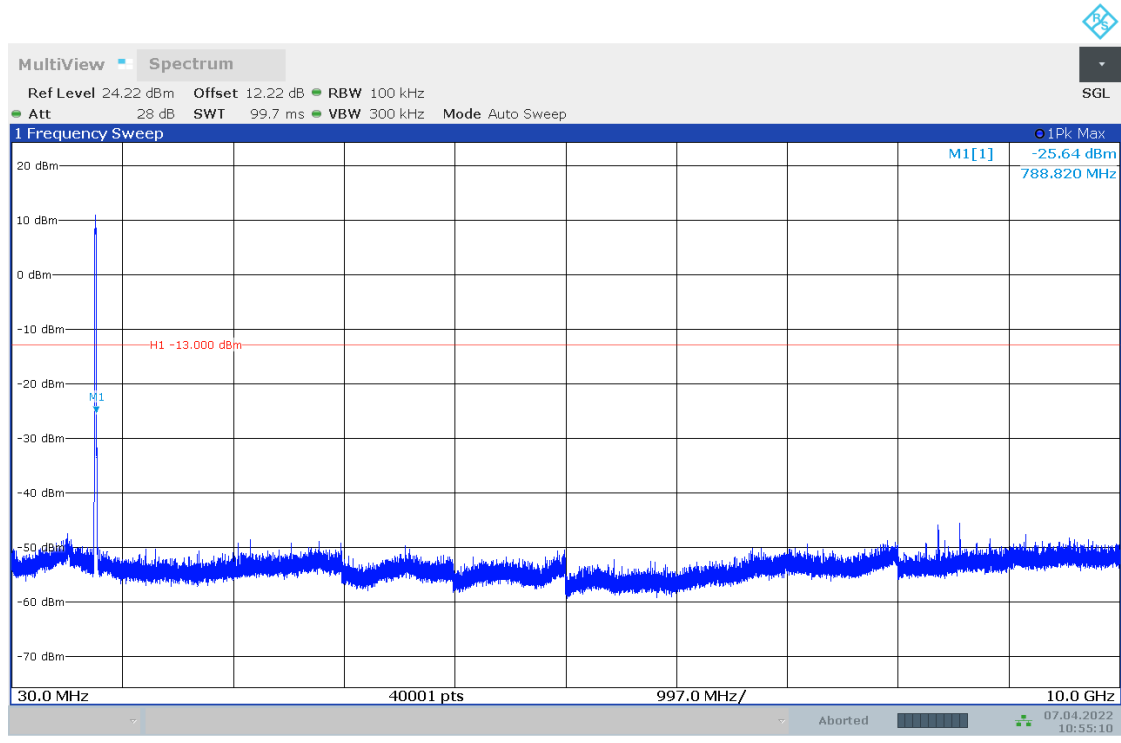
## 6.2.13 TM1\_10MHZ\_MCH\_RB50#0



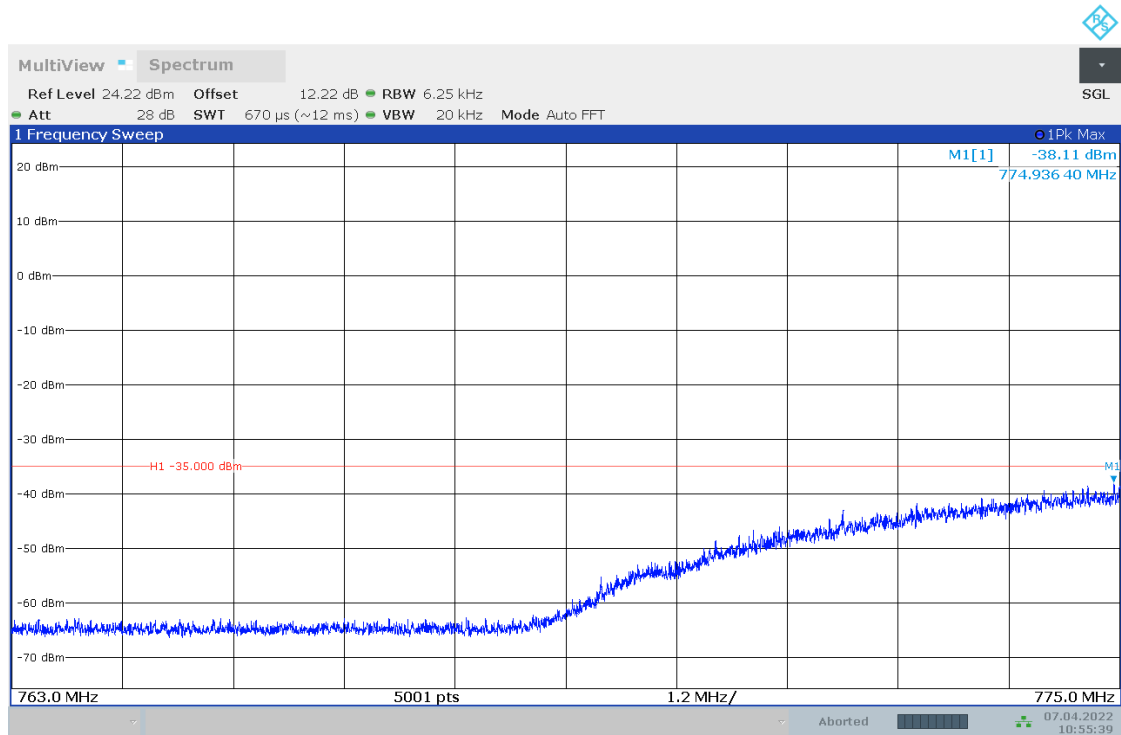
10:54:08 07.04.2022



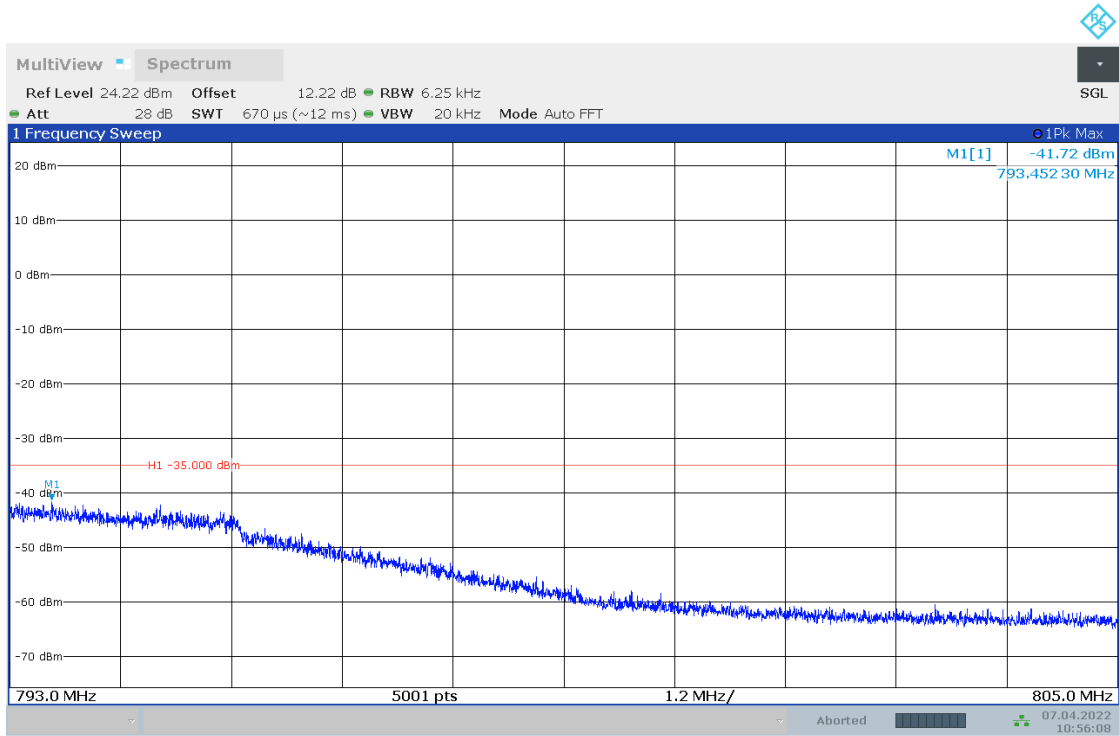
10:54:38 07.04.2022



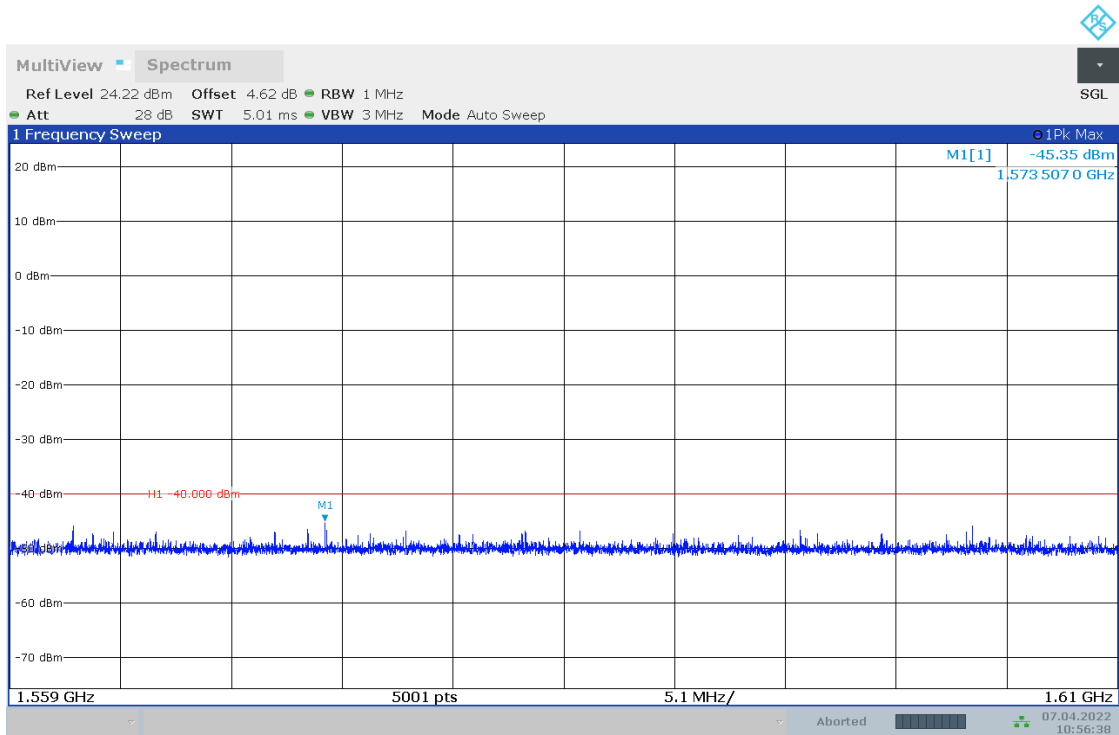
10:55:10 07.04.2022



10:55:39 07.04.2022

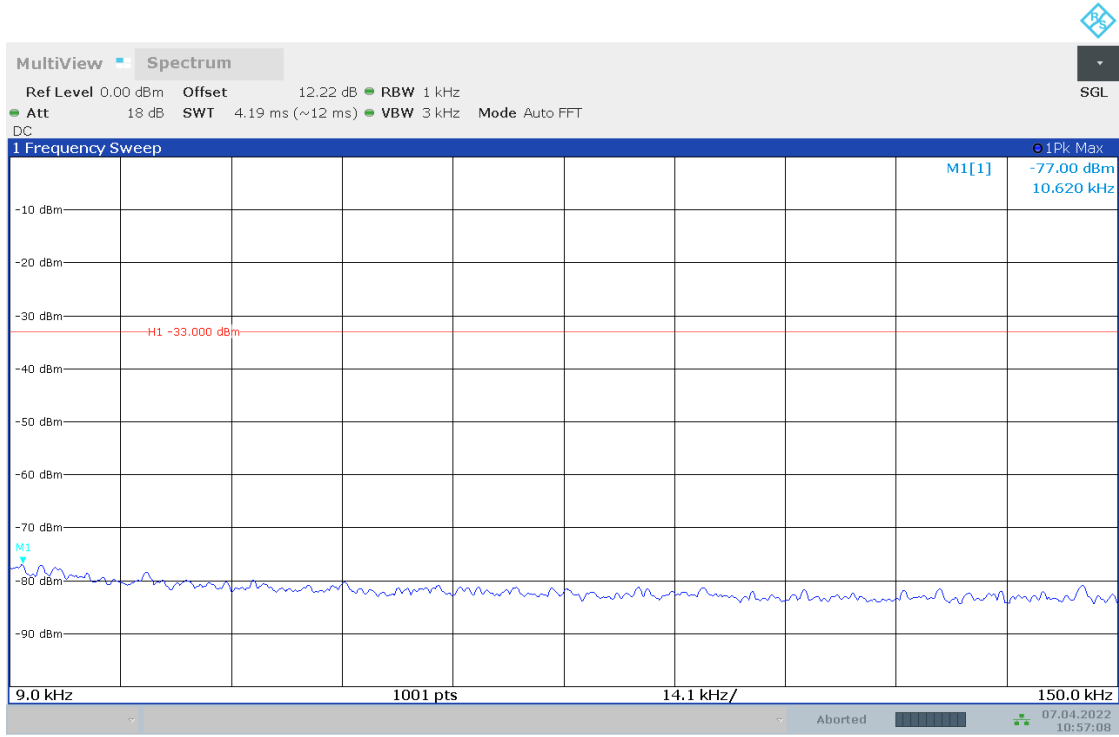


10:56:09 07.04.2022

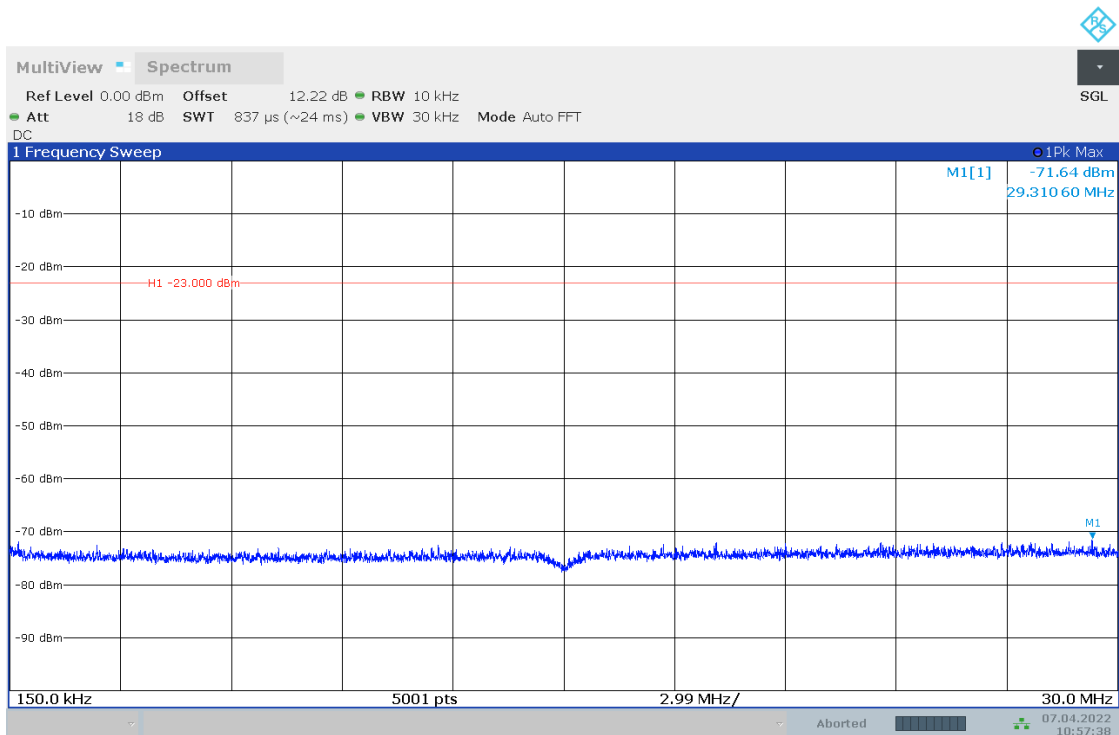


10:56:38 07.04.2022

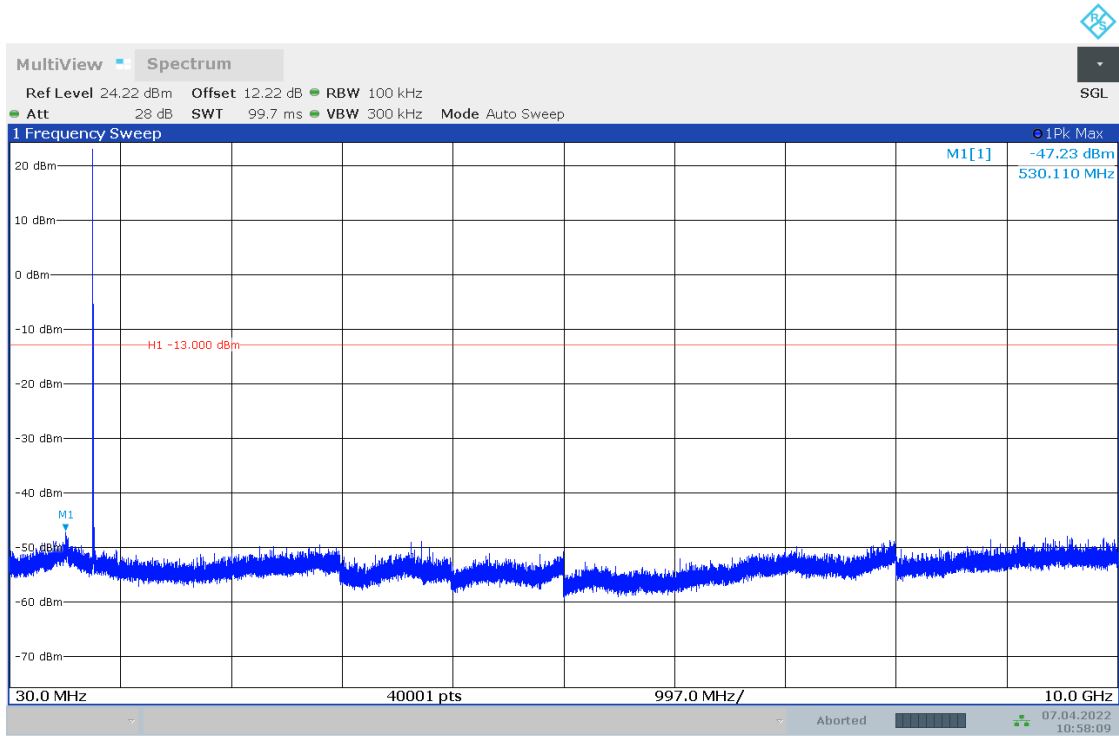
## 6.2.14 TM1\_10MHZ\_MCH\_RB1#0



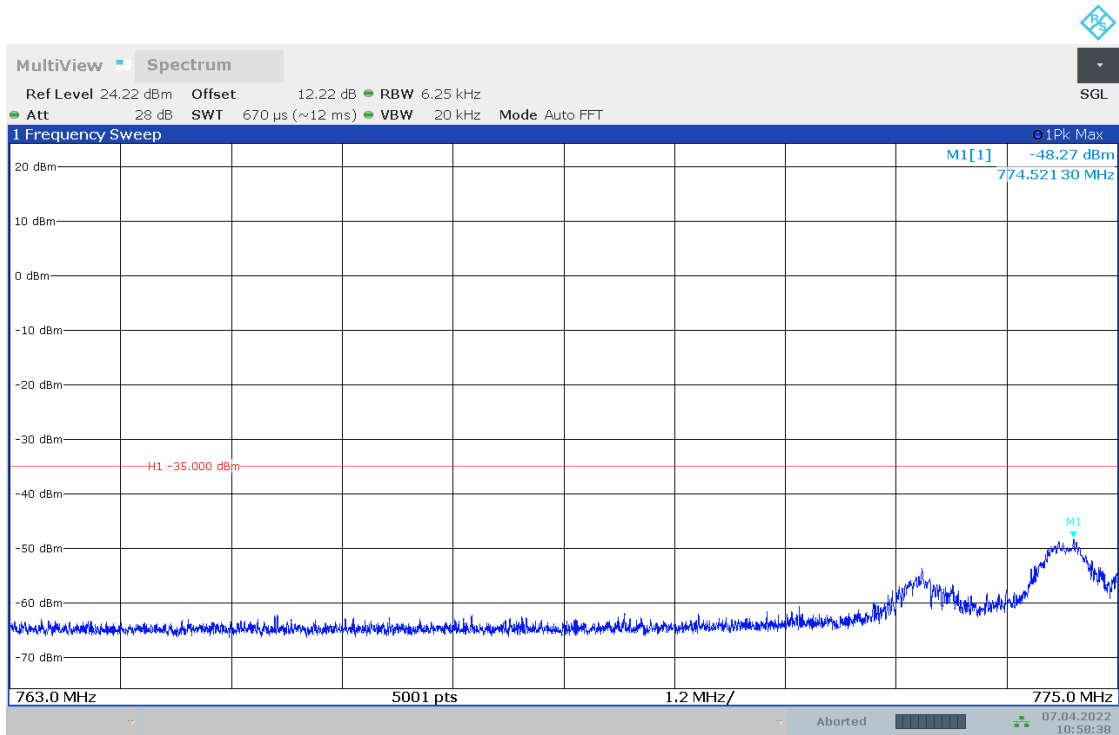
10:57:09 07.04.2022



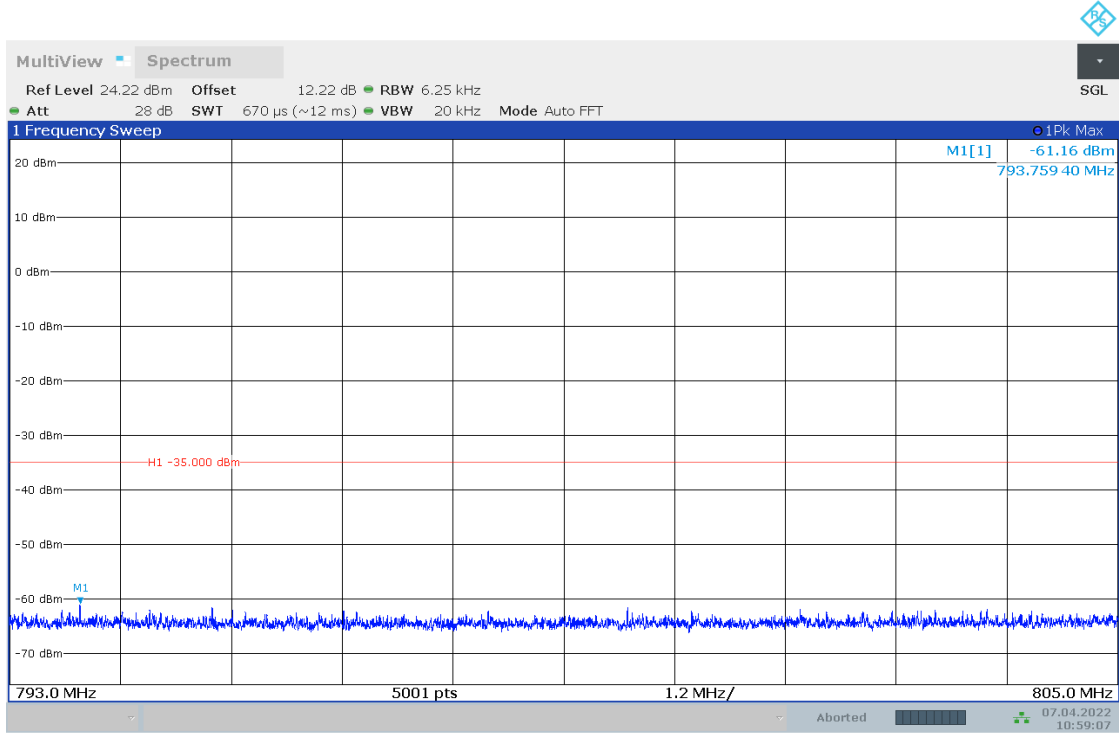
10:57:38 07.04.2022



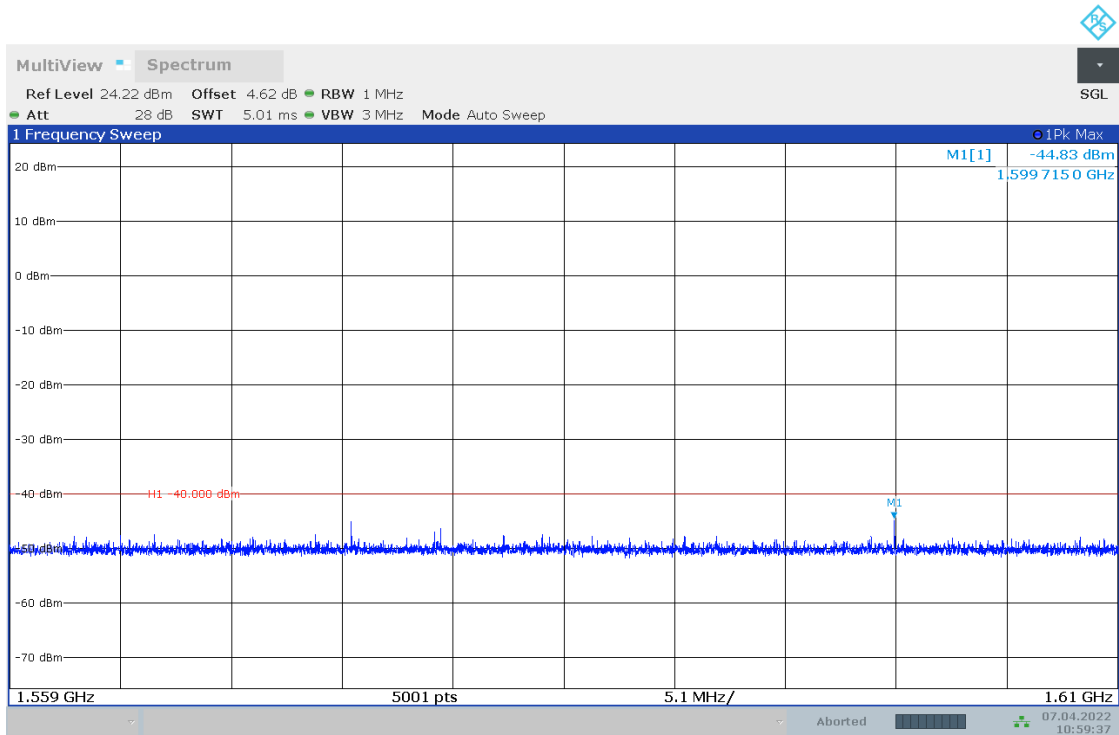
10:58:09 07.04.2022



10:58:39 07.04.2022



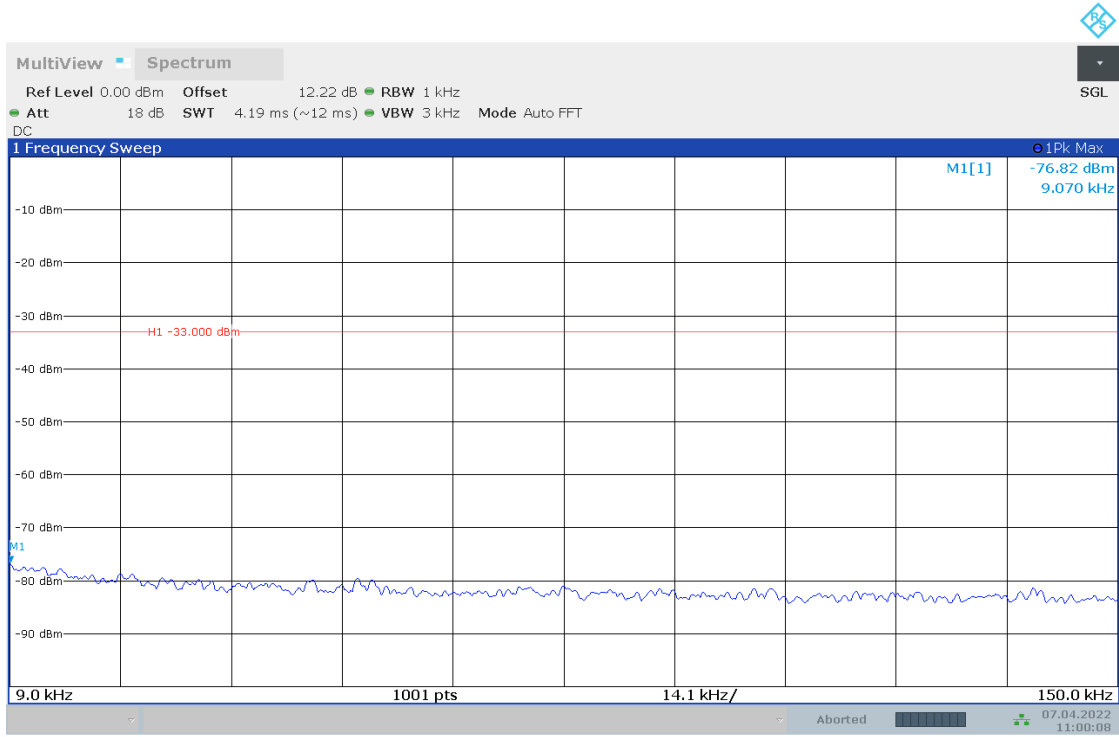
10:59:08 07.04.2022



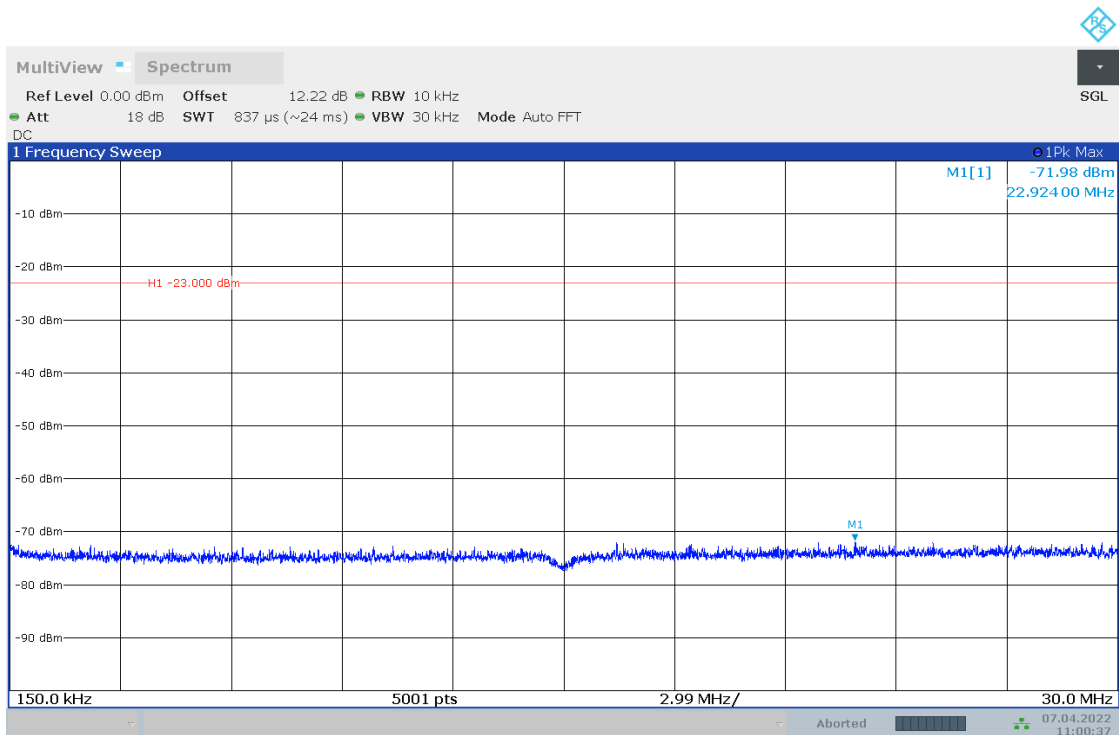
10:59:37 07.04.2022



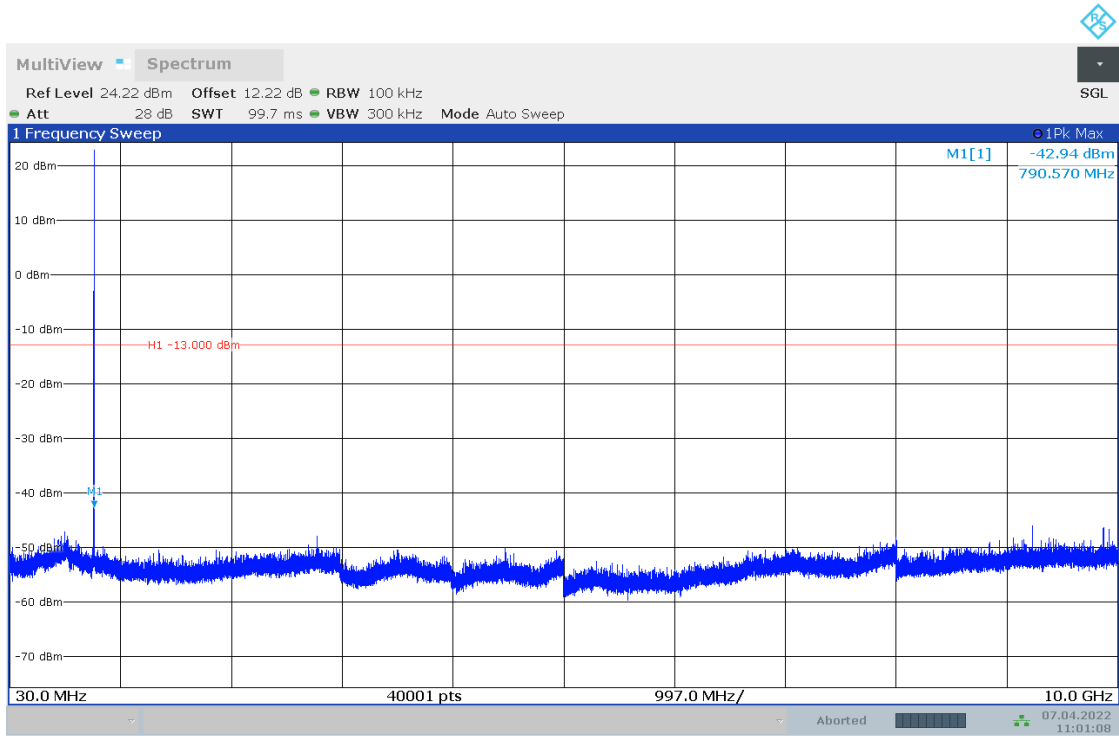
## 6.2.15 TM1\_10MHZ\_MCH\_RB1#49



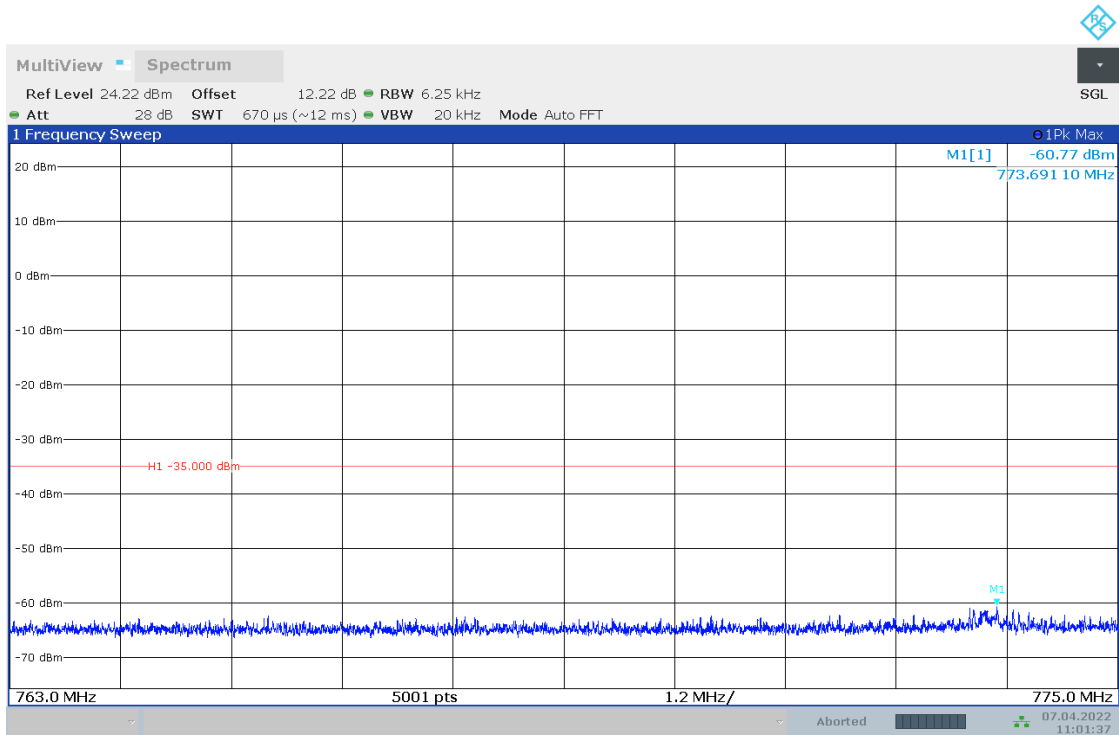
11:00:08 07.04.2022



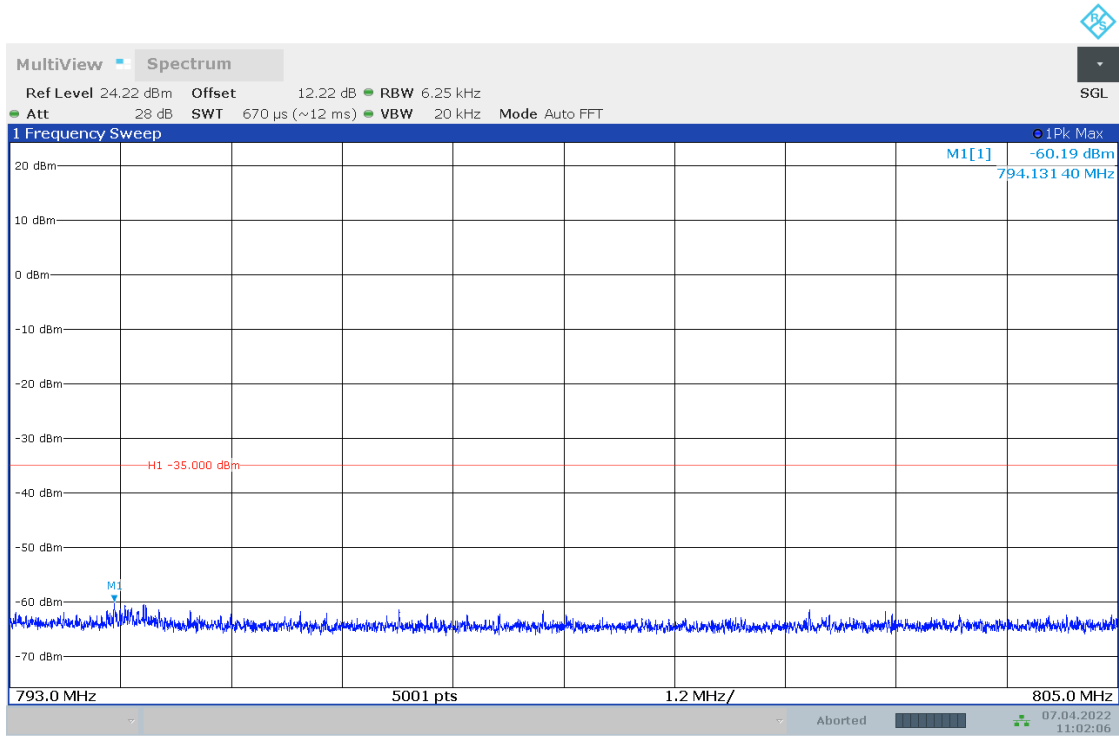
11:00:38 07.04.2022



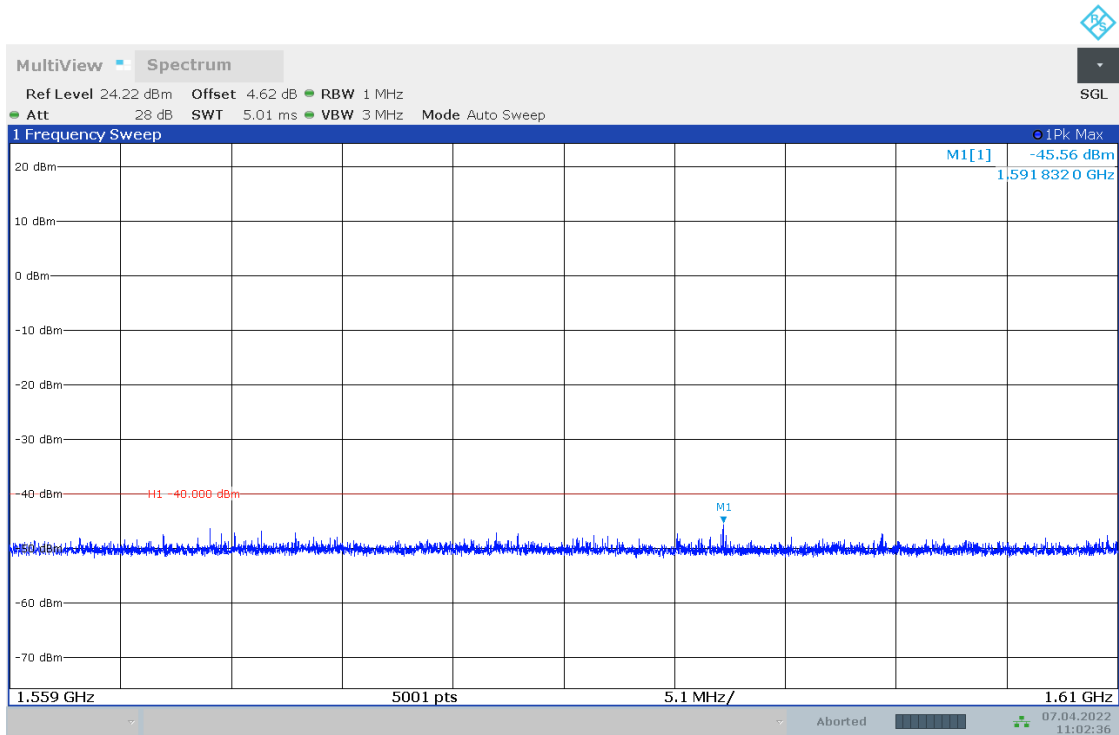
11:01:09 07.04.2022



11:01:38 07.04.2022

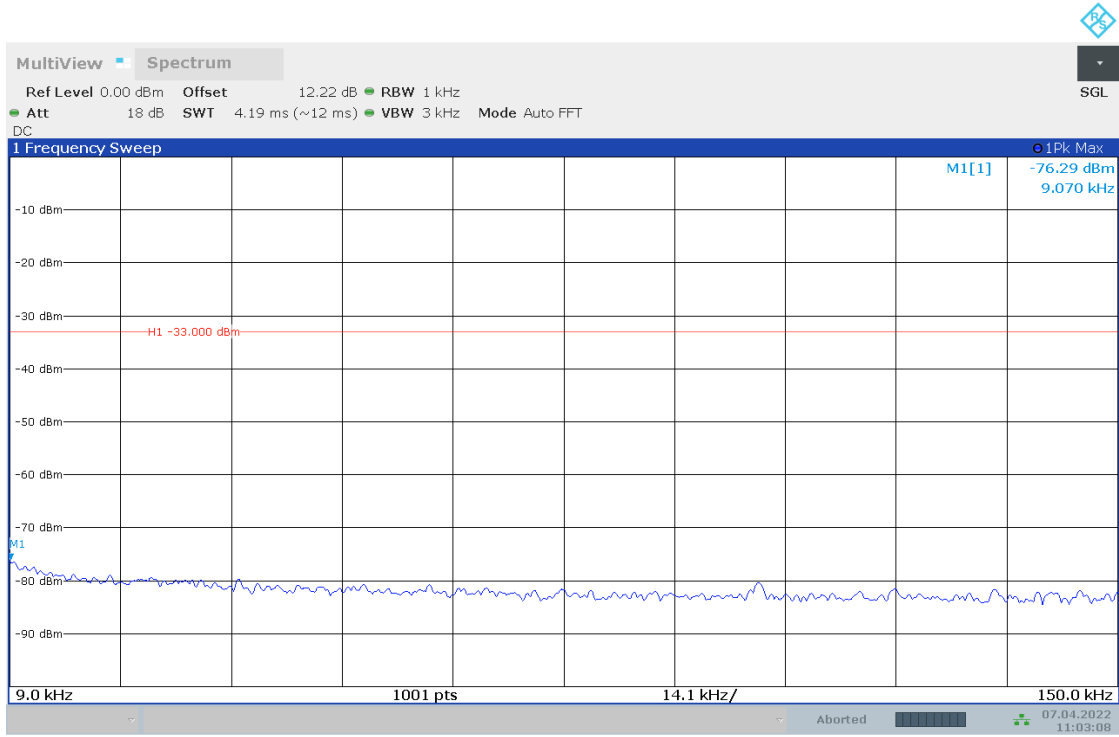


11:02:07 07.04.2022

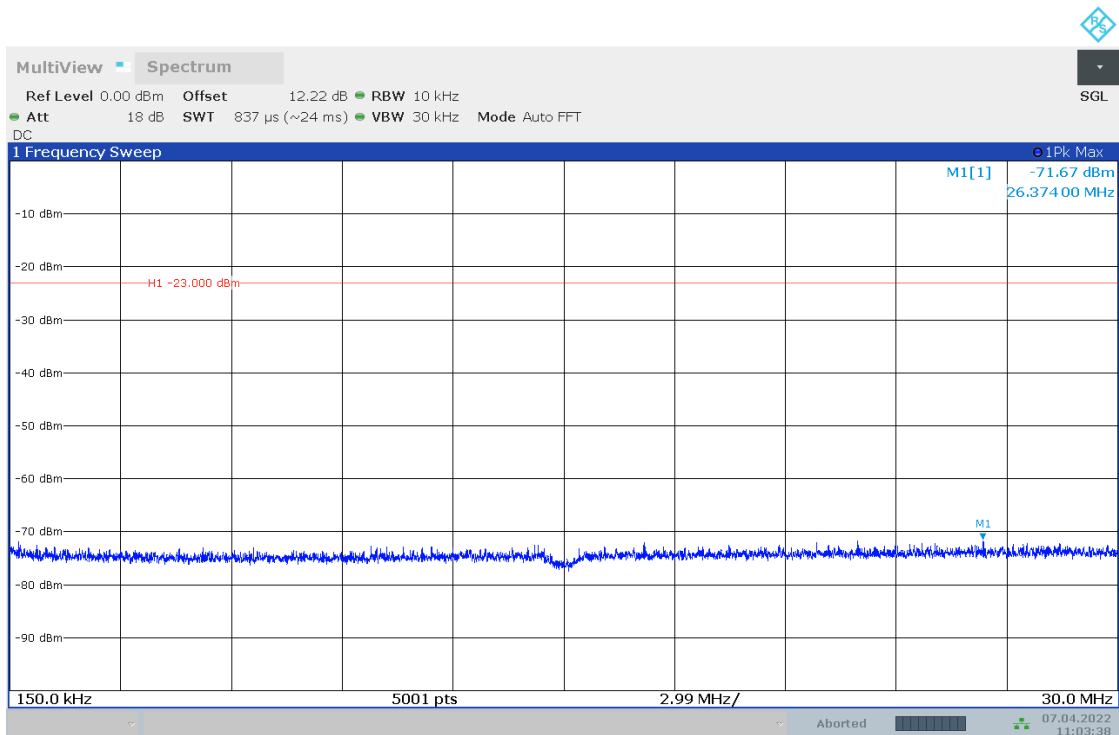


11:02:37 07.04.2022

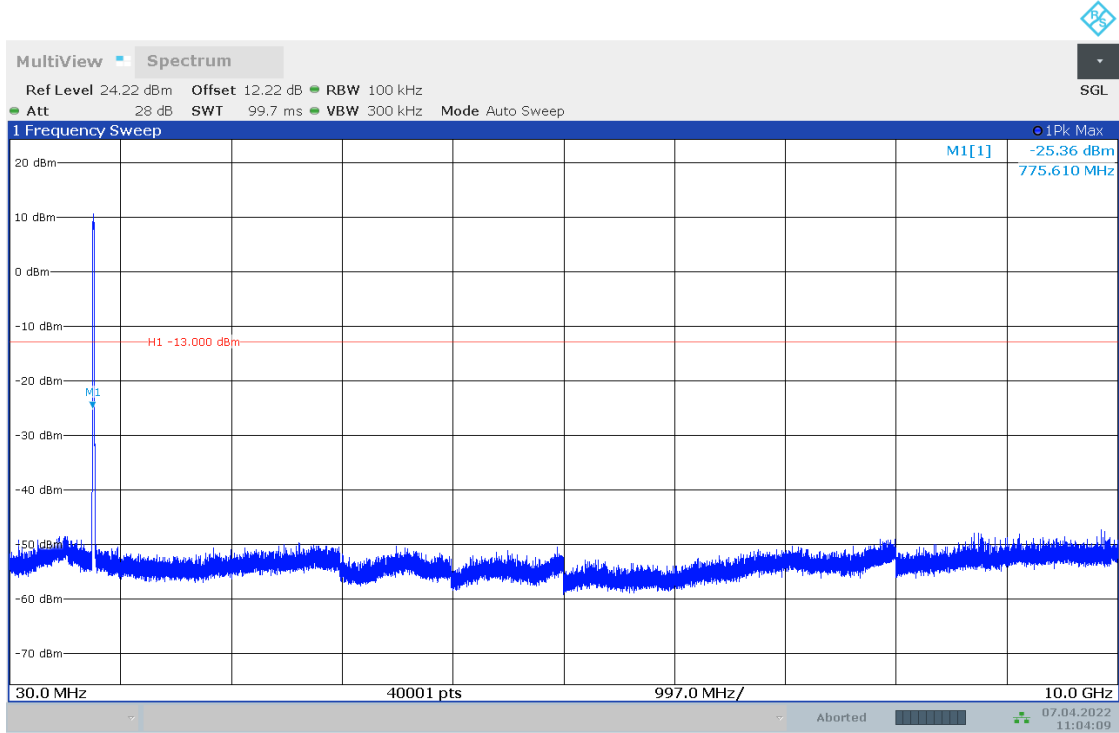
## 6.2.16 TM1\_10MHZ\_HCH\_RB50#0



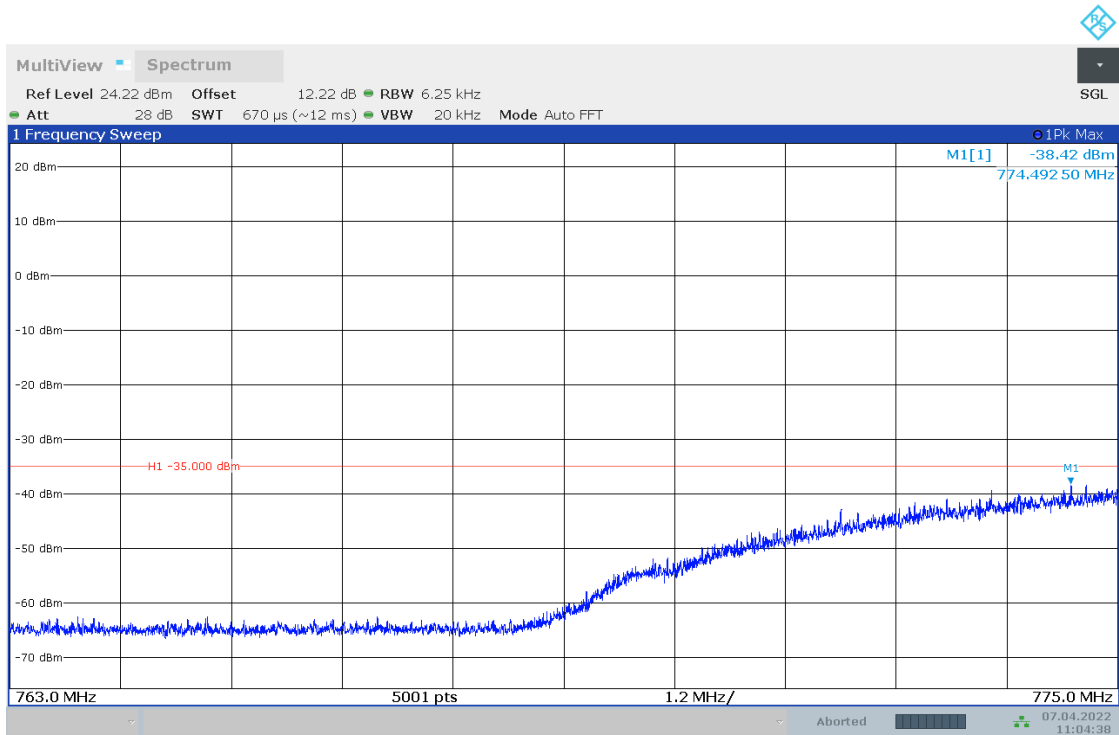
11:03:09 07.04.2022



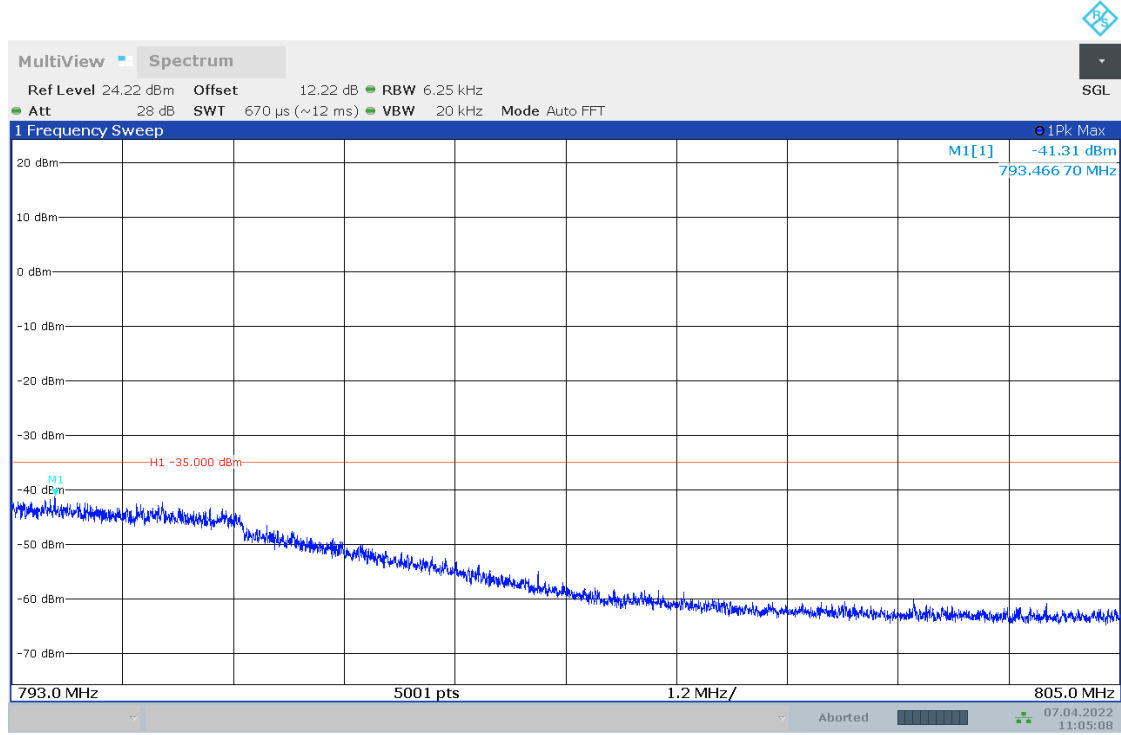
11:03:39 07.04.2022



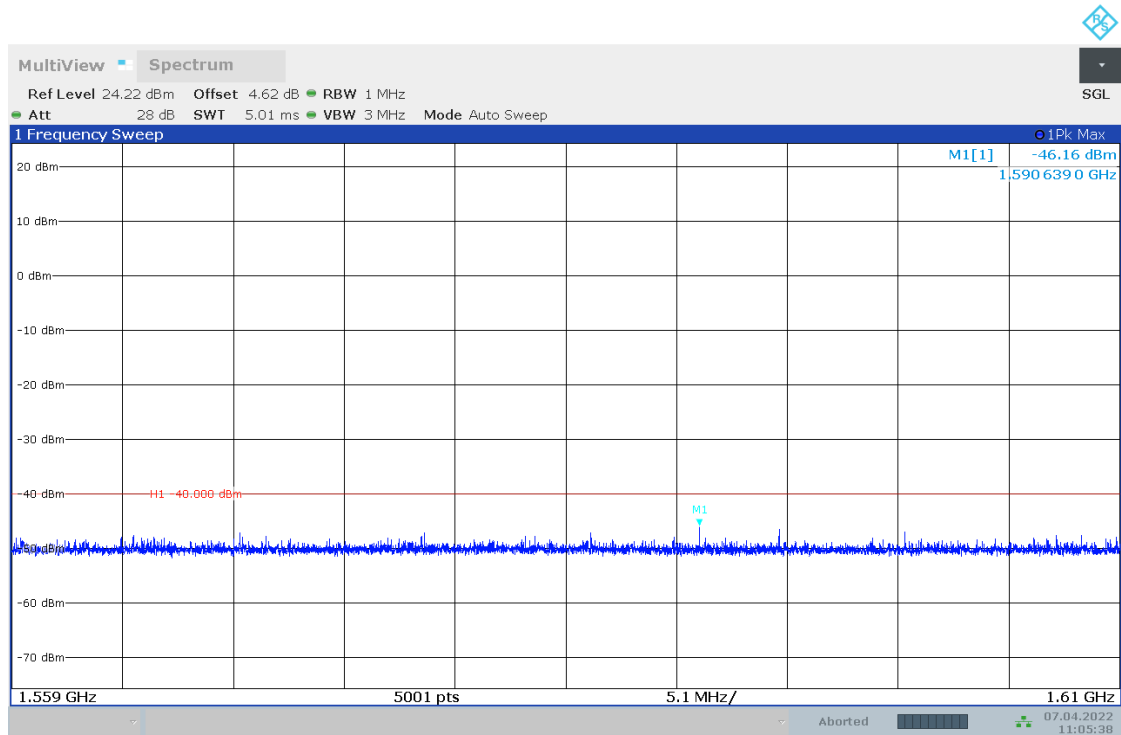
11:04:10 07.04.2022



11:04:39 07.04.2022

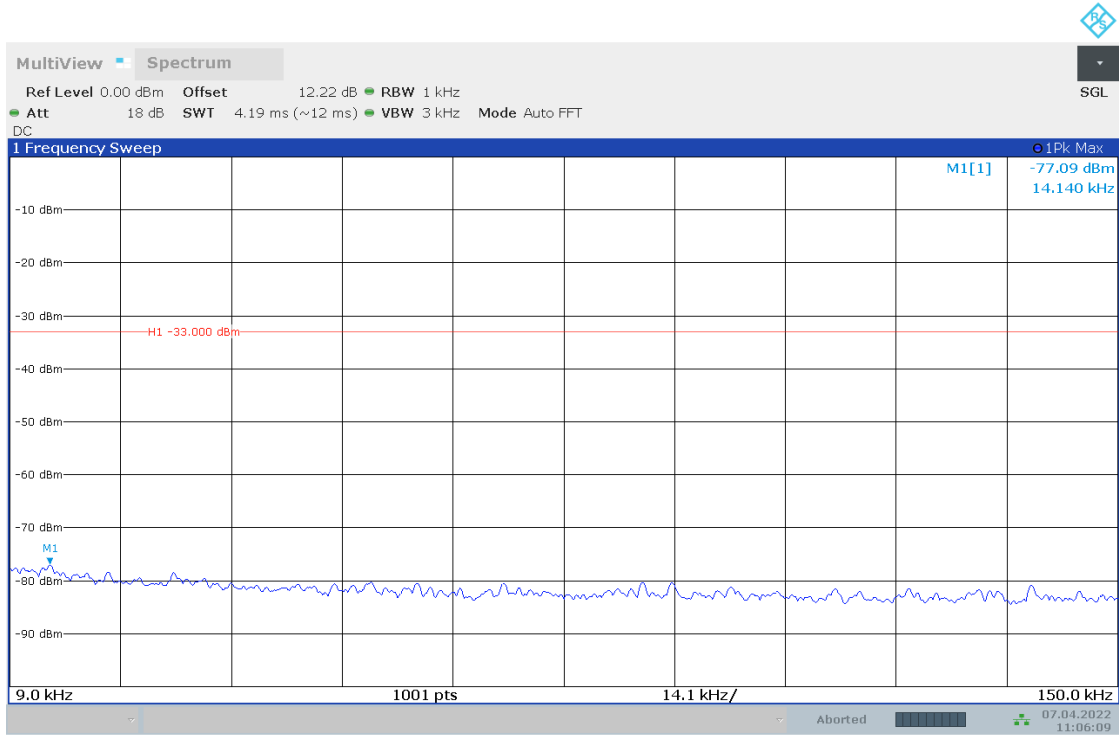


11:05:08 07.04.2022

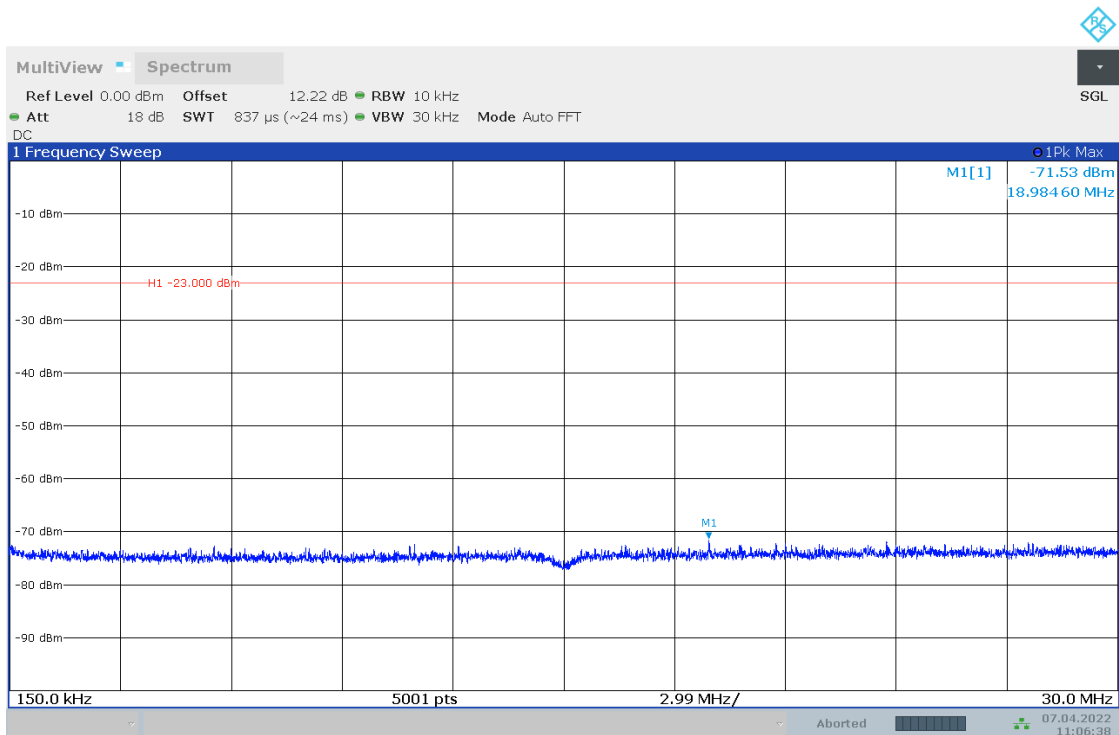


11:05:38 07.04.2022

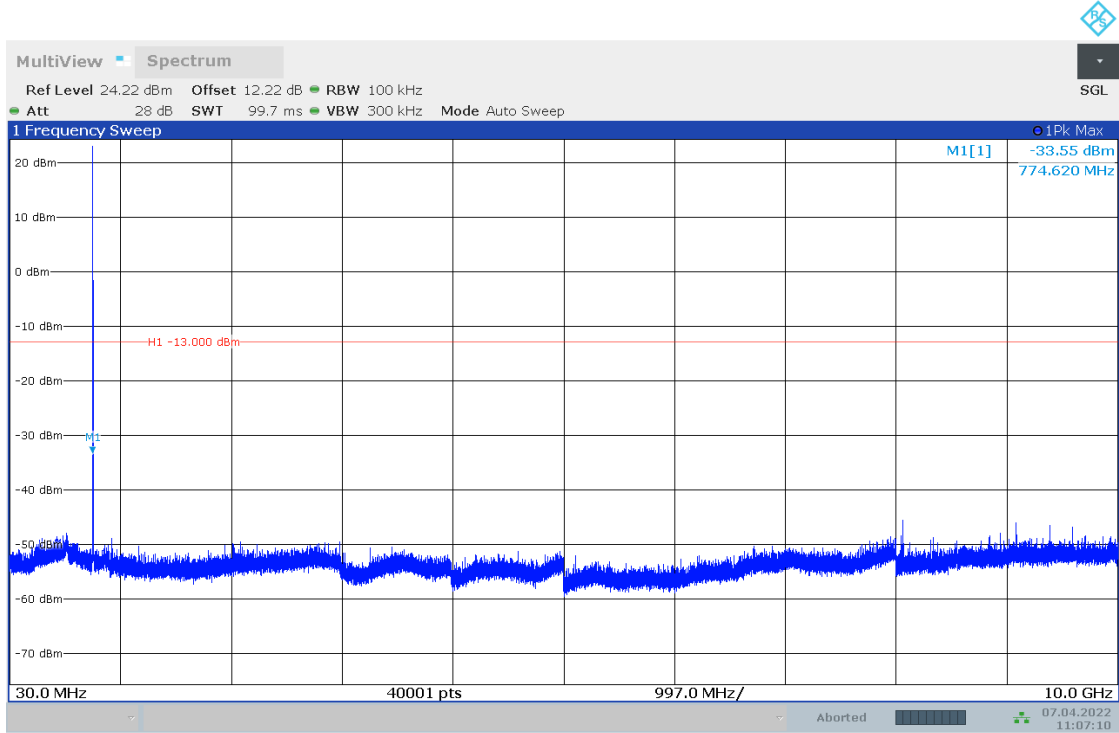
## 6.2.17 TM1\_10MHZ\_HCH\_RB1#0



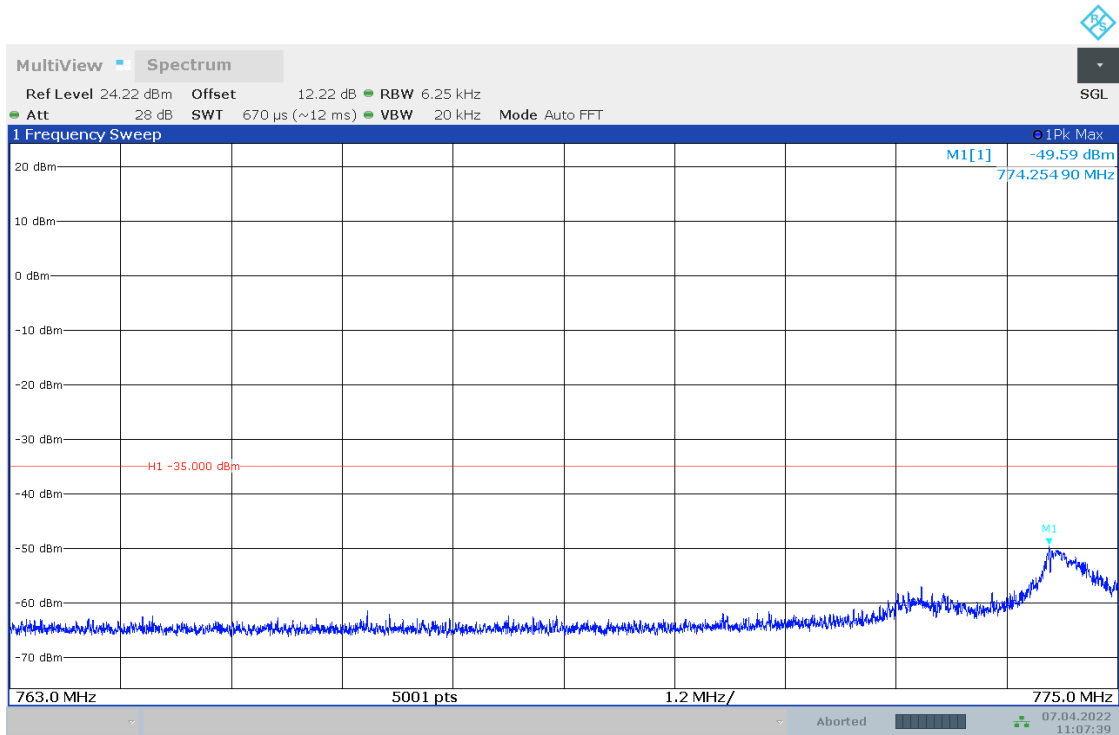
11:06:09 07.04.2022



11:06:38 07.04.2022

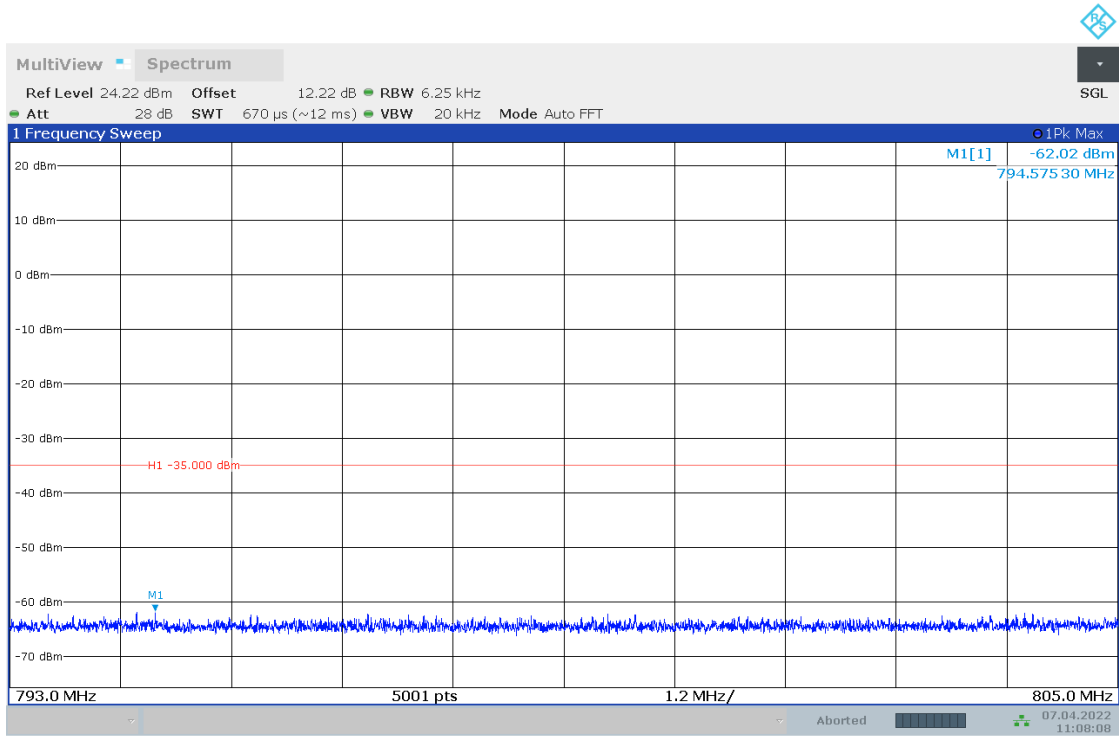


11:07:10 07.04.2022

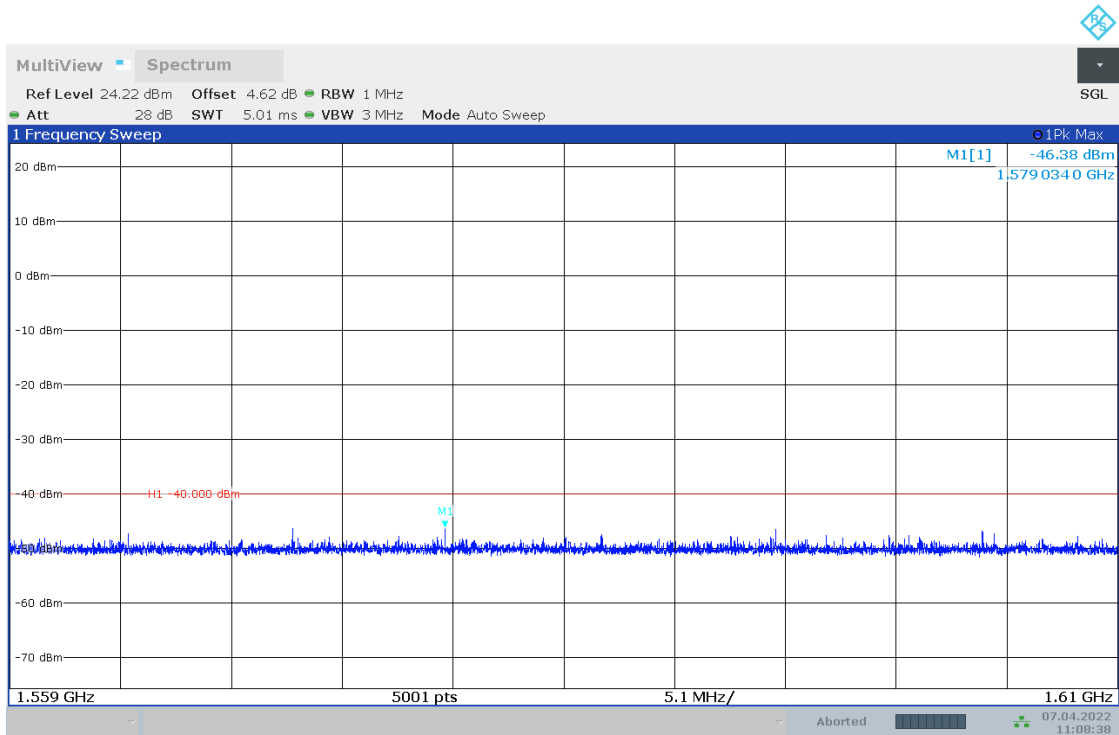


11:07:39 07.04.2022



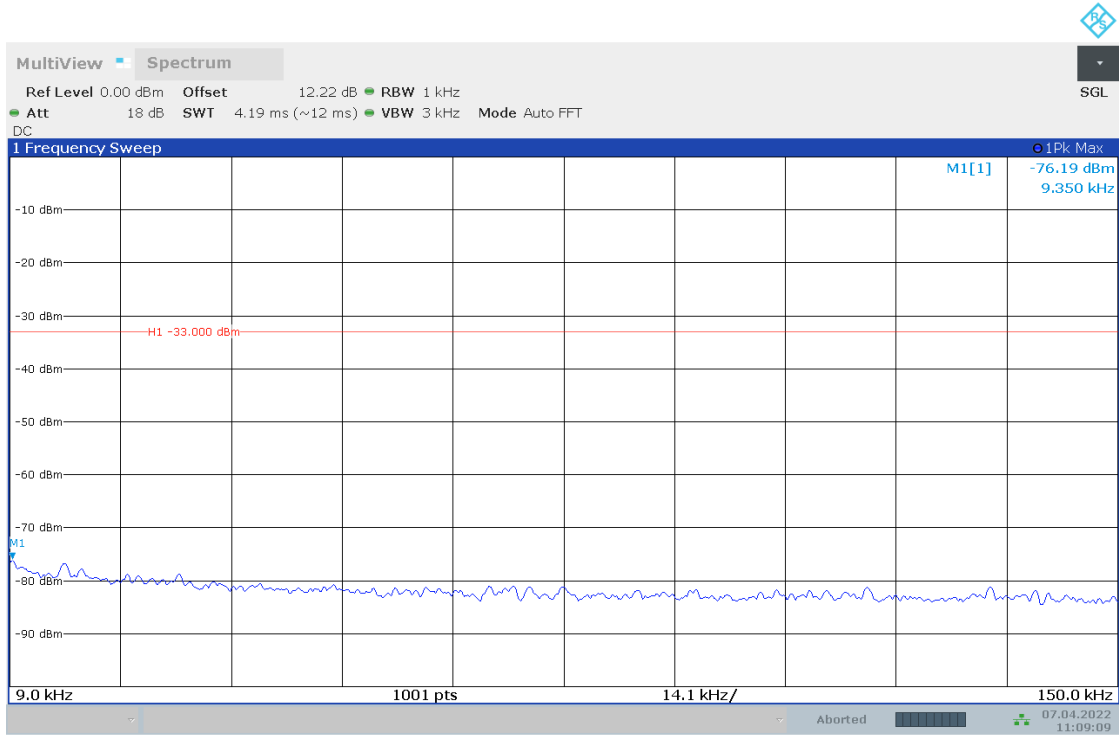


11:08:08 07.04.2022

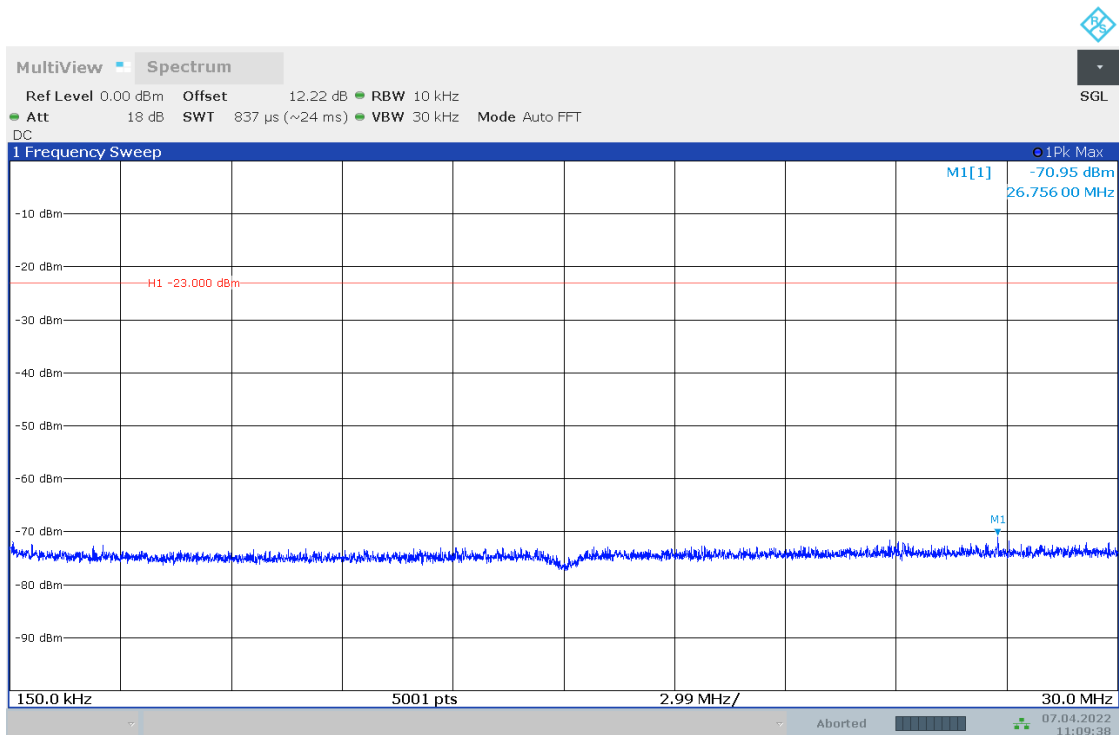


11:08:38 07.04.2022

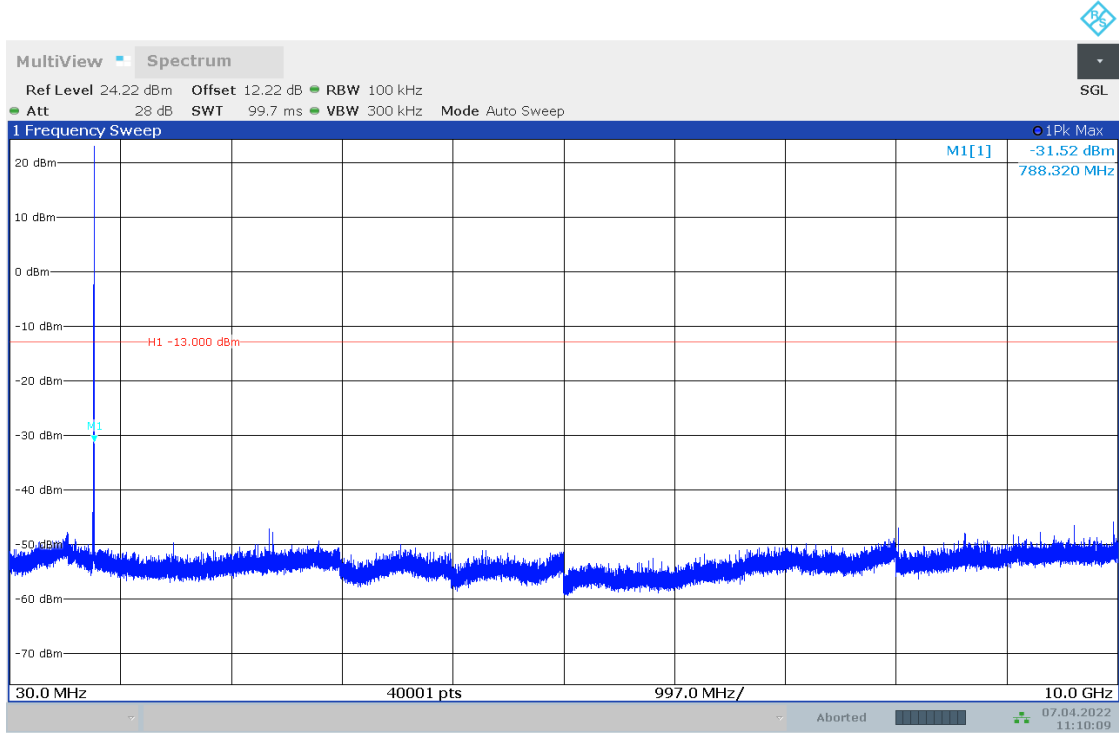
## 6.2.18 TM1\_10MHZ\_HCH\_RB1#49



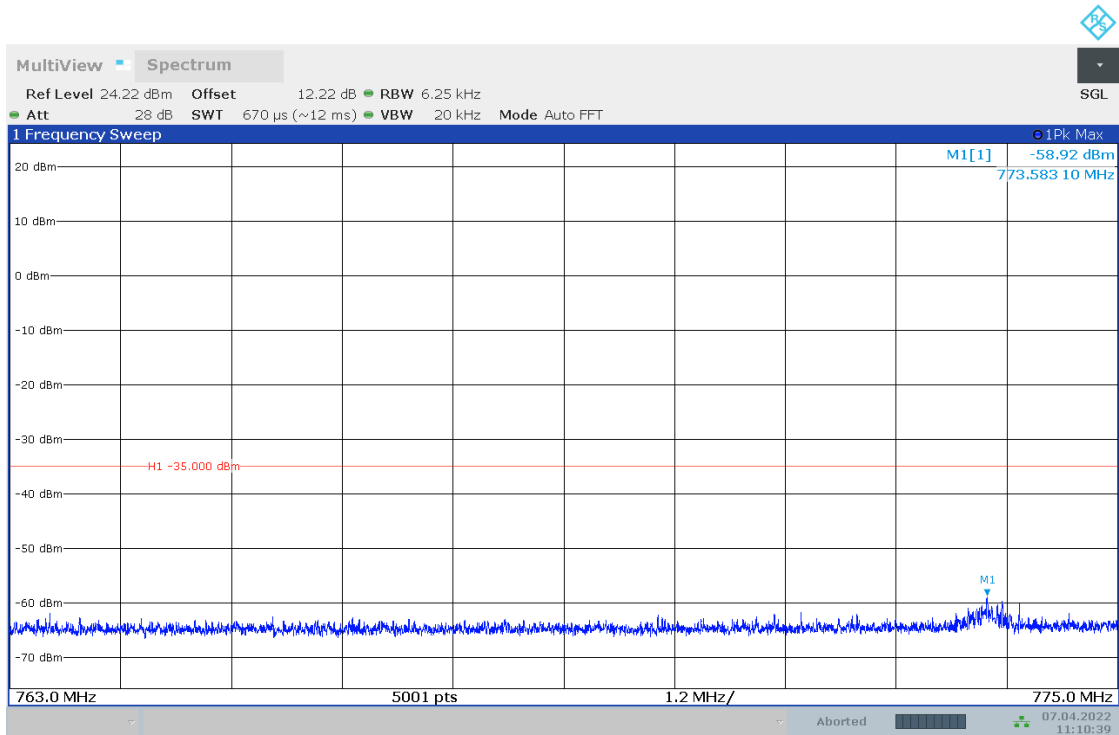
11:09:09 07.04.2022



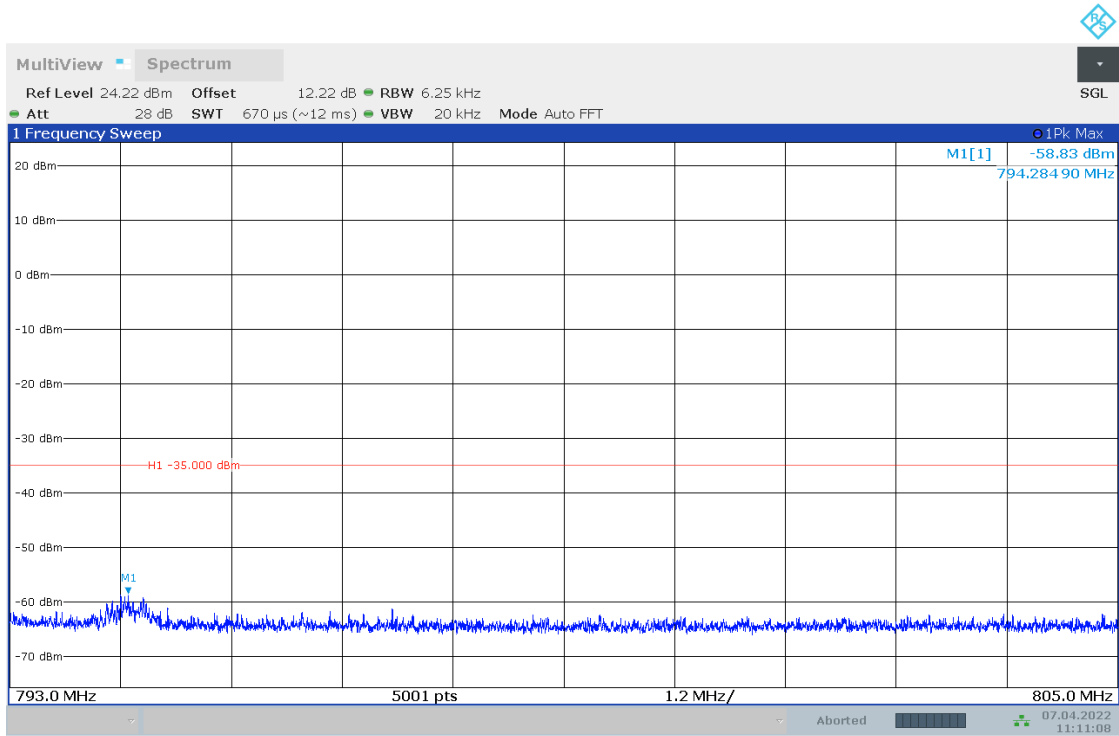
11:09:38 07.04.2022



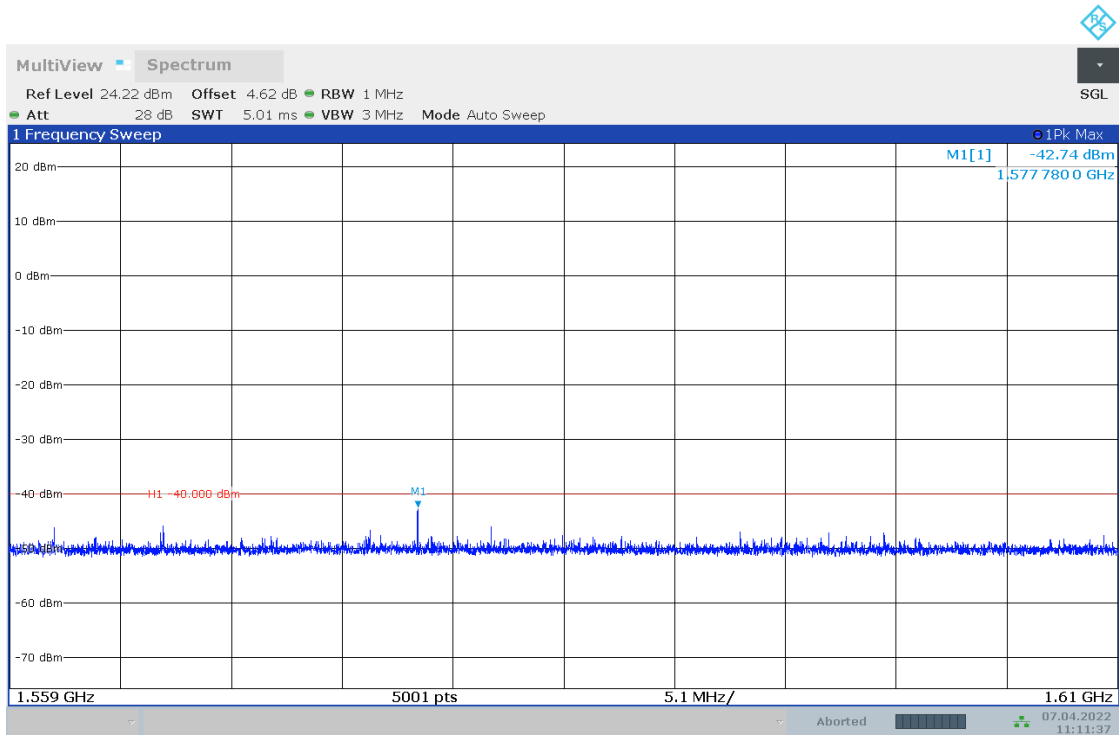
11:10:10 07.04.2022



11:10:39 07.04.2022

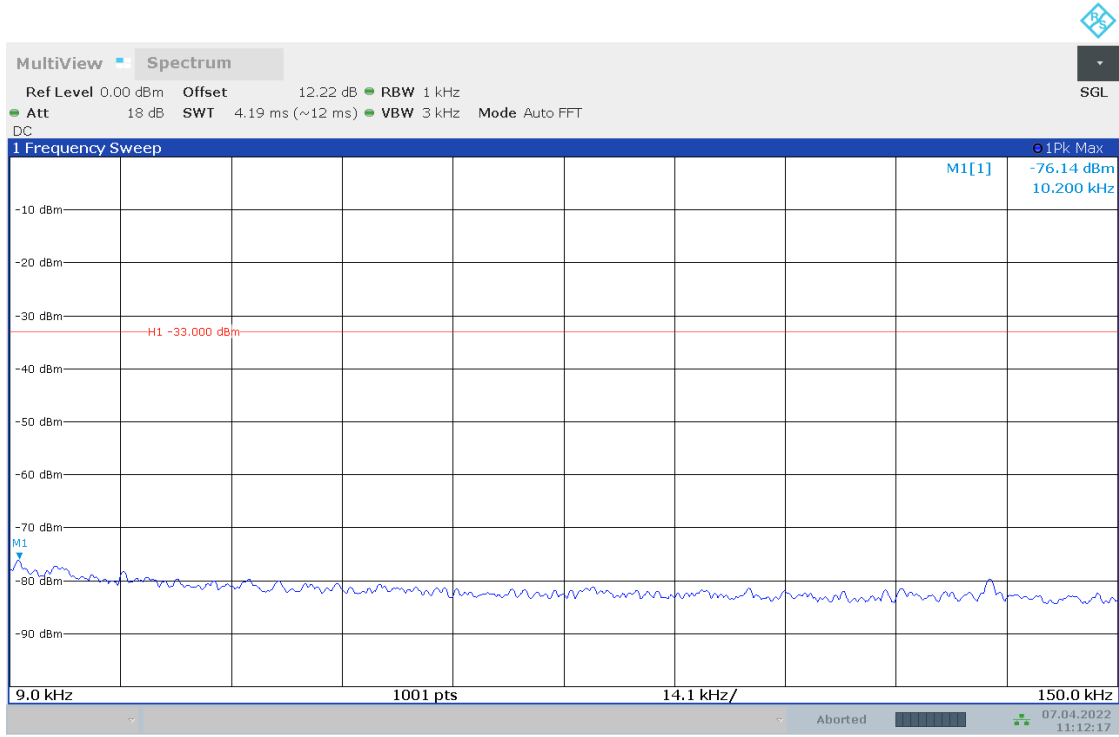


11:11:08 07.04.2022

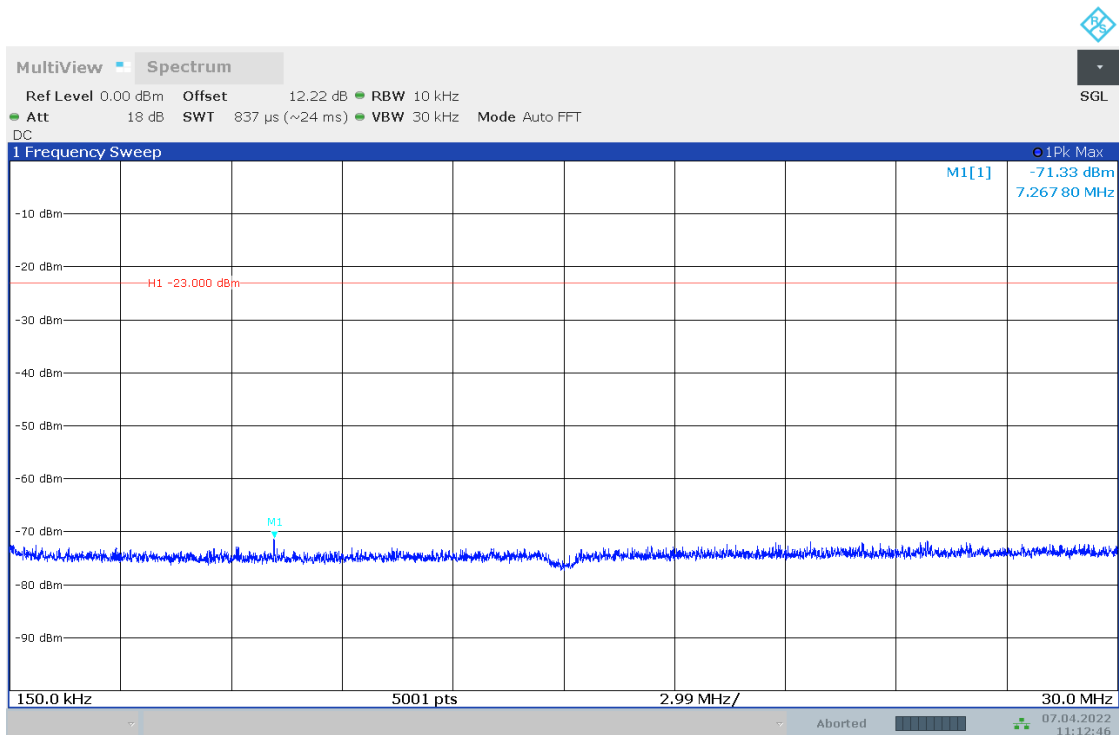


11:11:38 07.04.2022

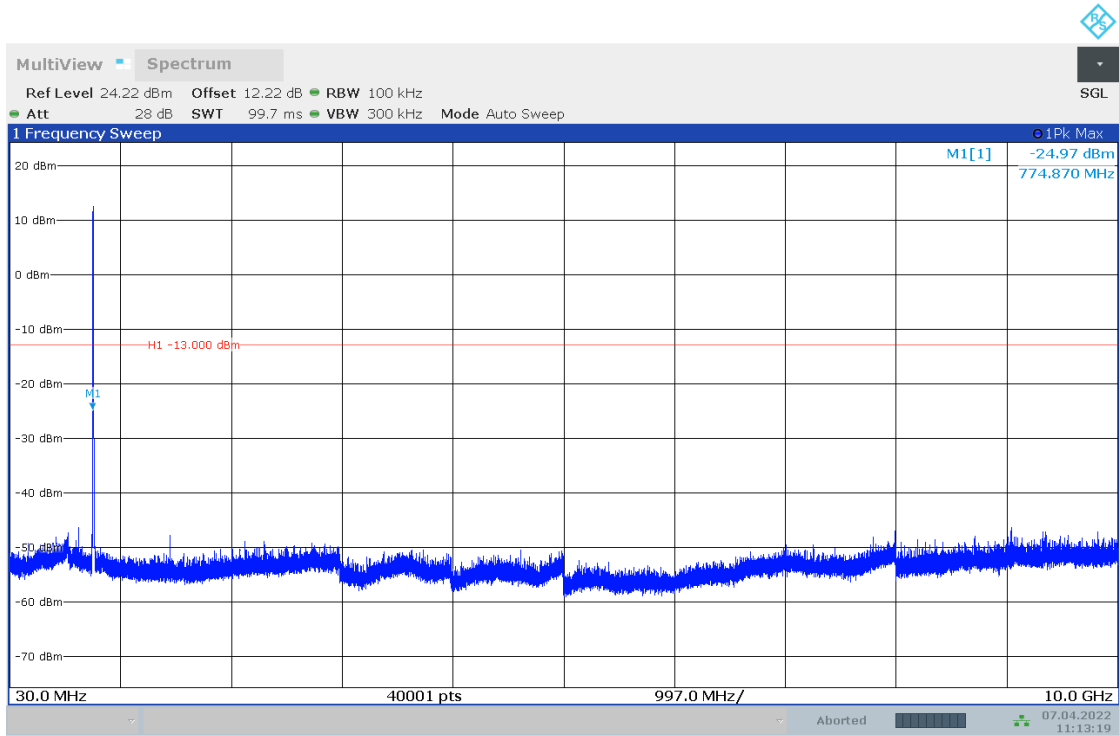
## 6.2.19 TM2\_5MHZ\_LCH\_RB25#0



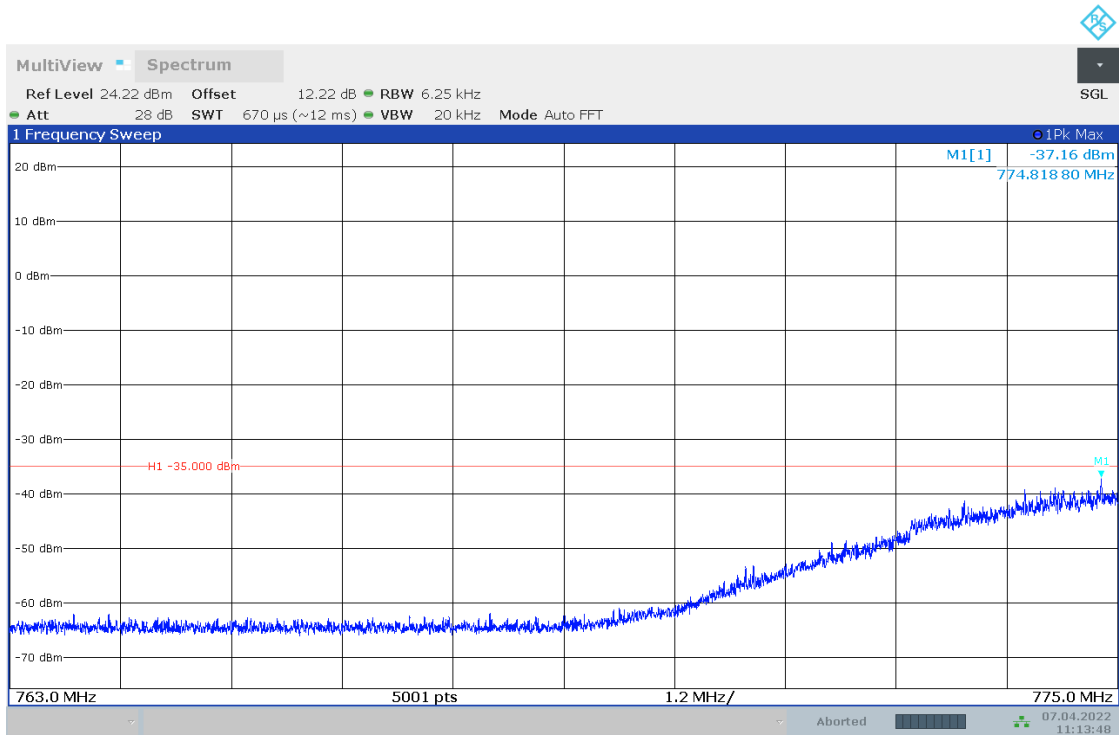
11:12:17 07.04.2022



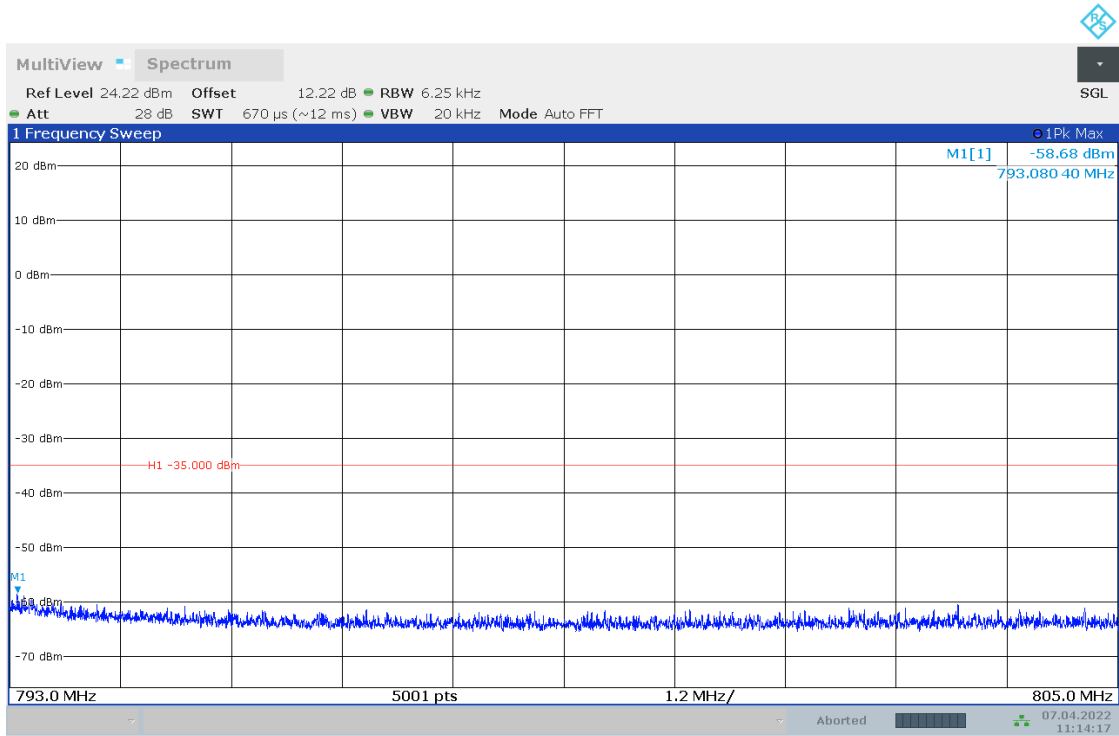
11:12:46 07.04.2022



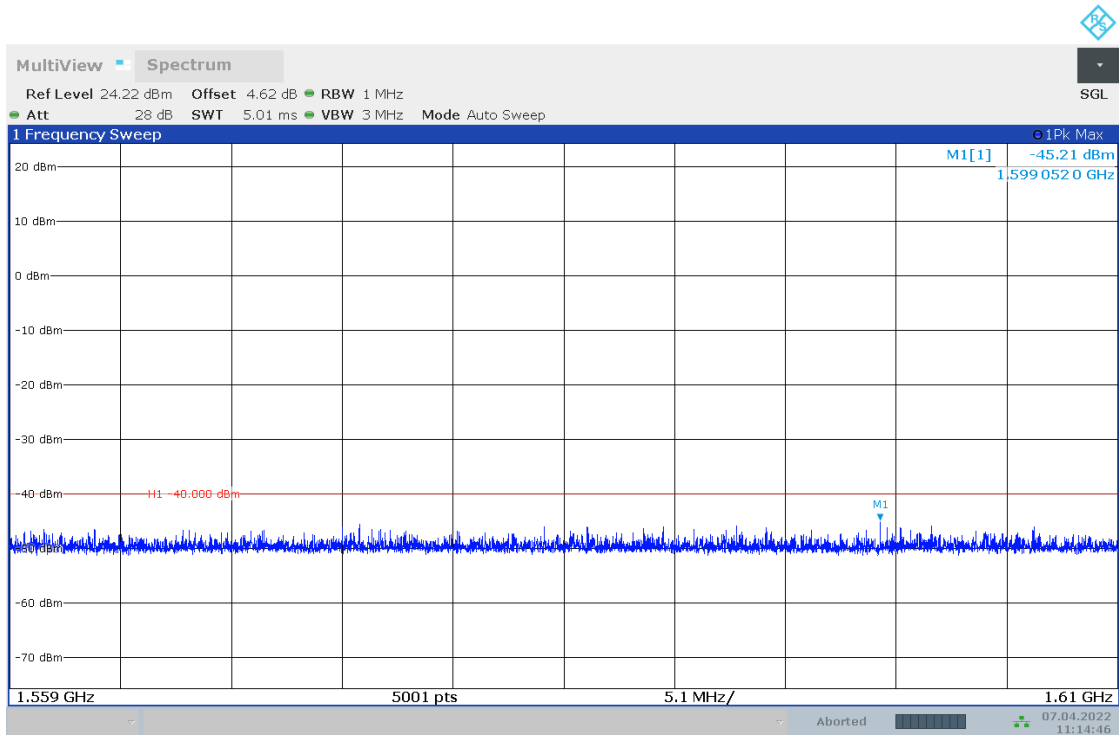
11:13:19 07.04.2022



11:13:48 07.04.2022

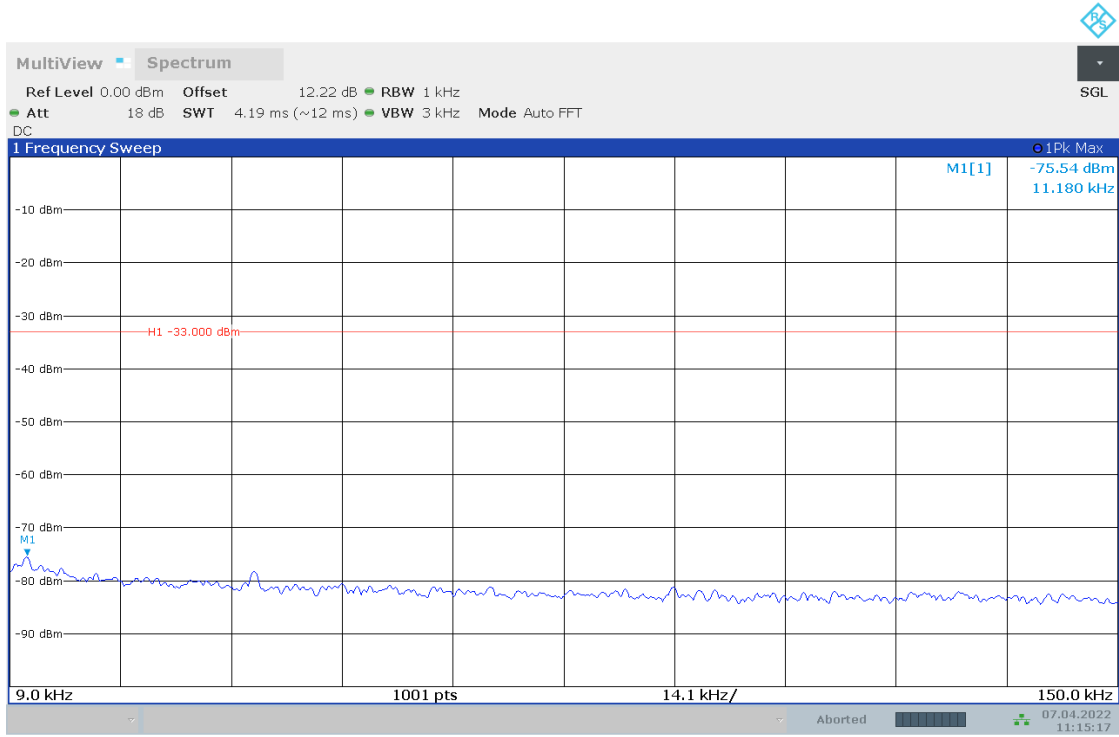


11:14:17 07.04.2022

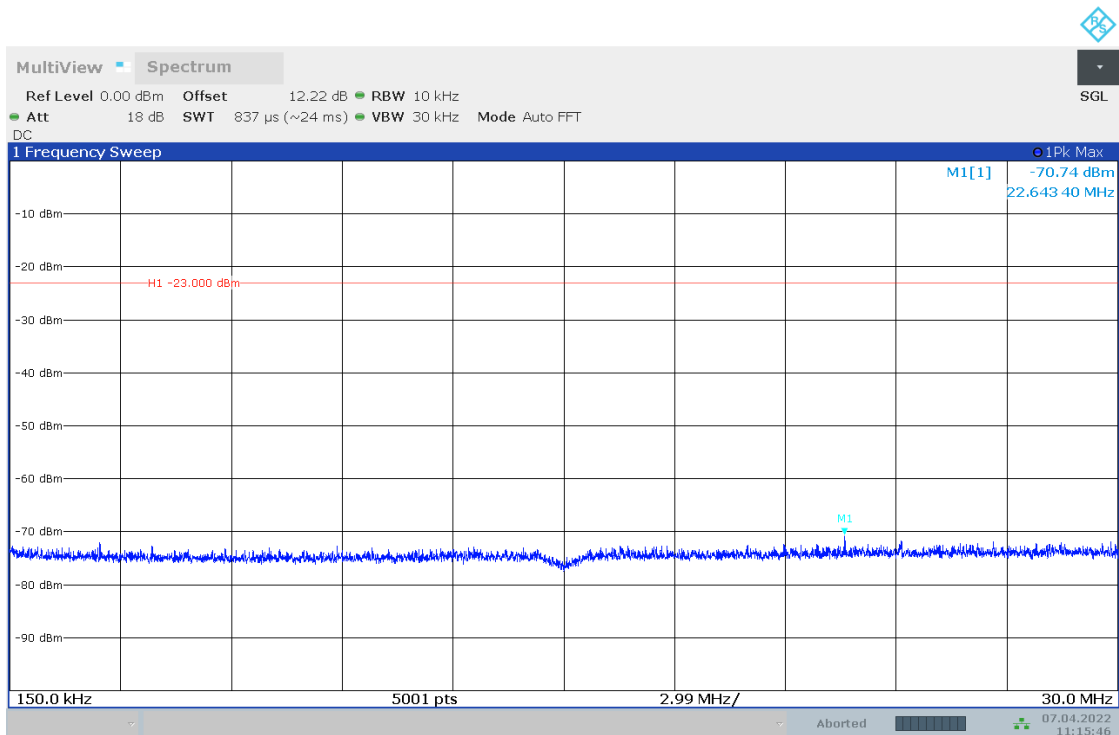


11:14:47 07.04.2022

## 6.2.20 TM2\_5MHZ\_LCH\_RB1#0

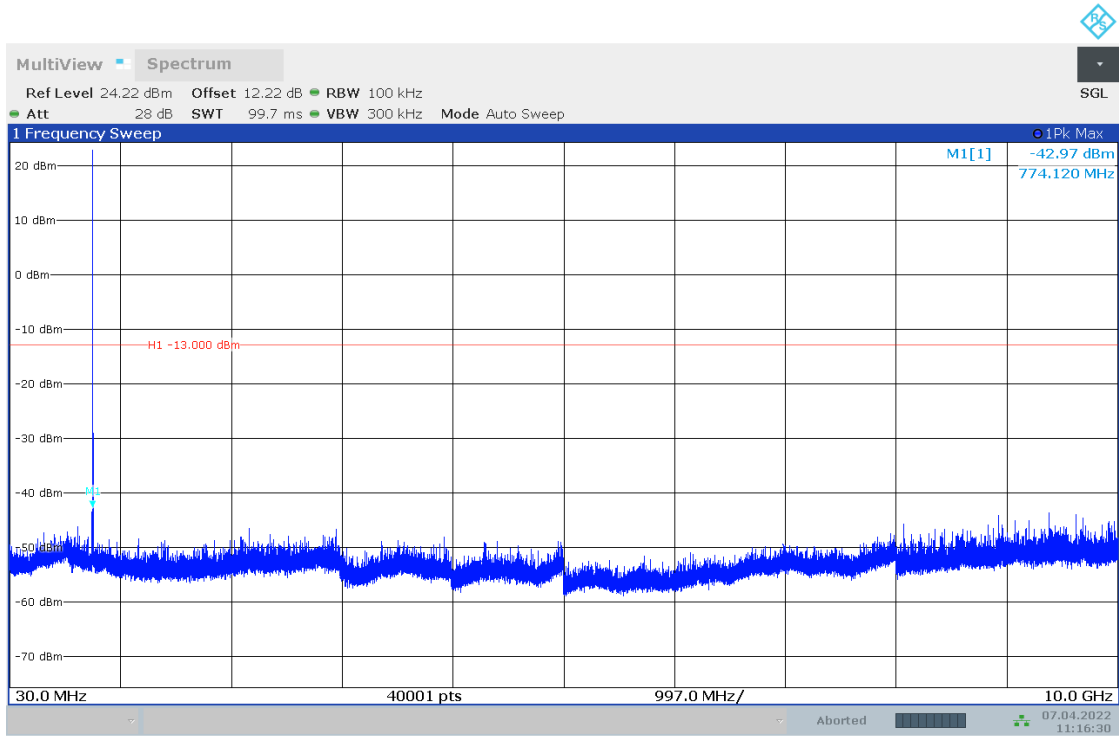


11:15:17 07.04.2022

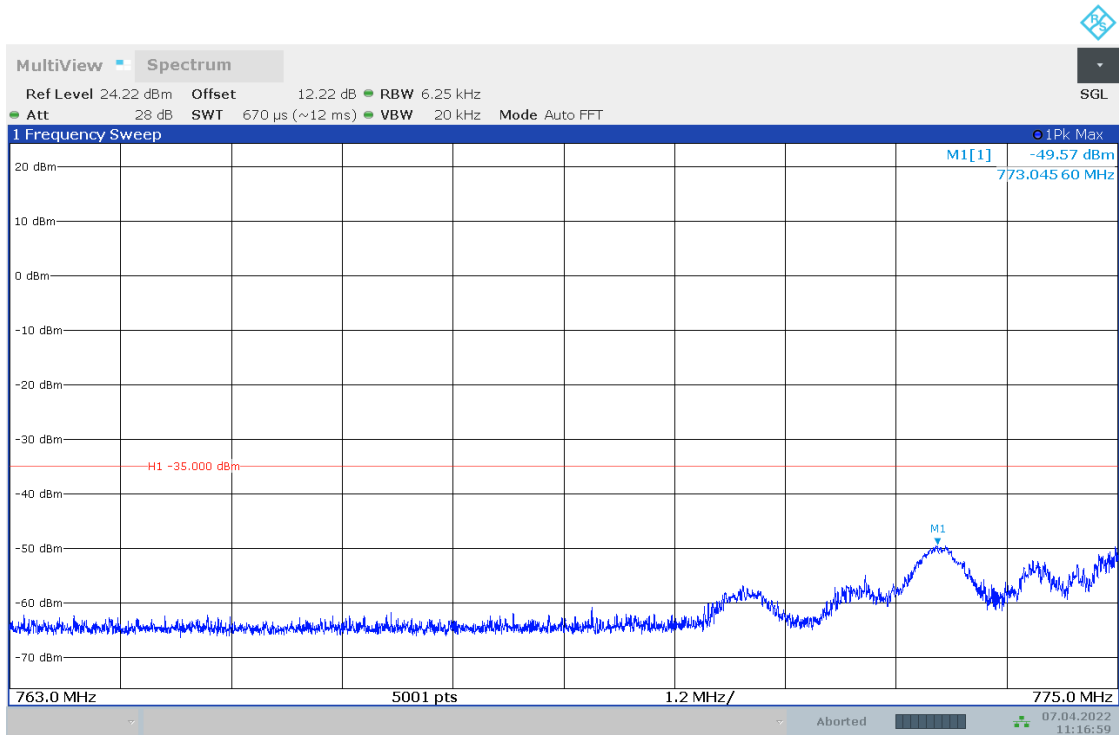


11:15:47 07.04.2022

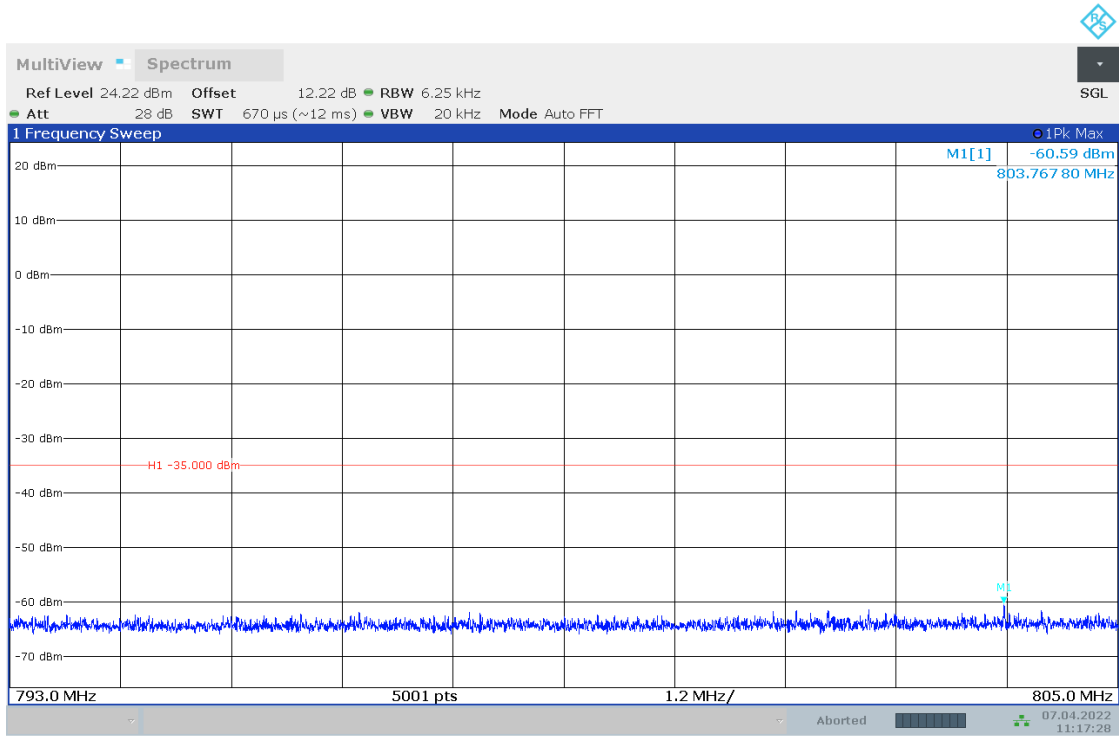




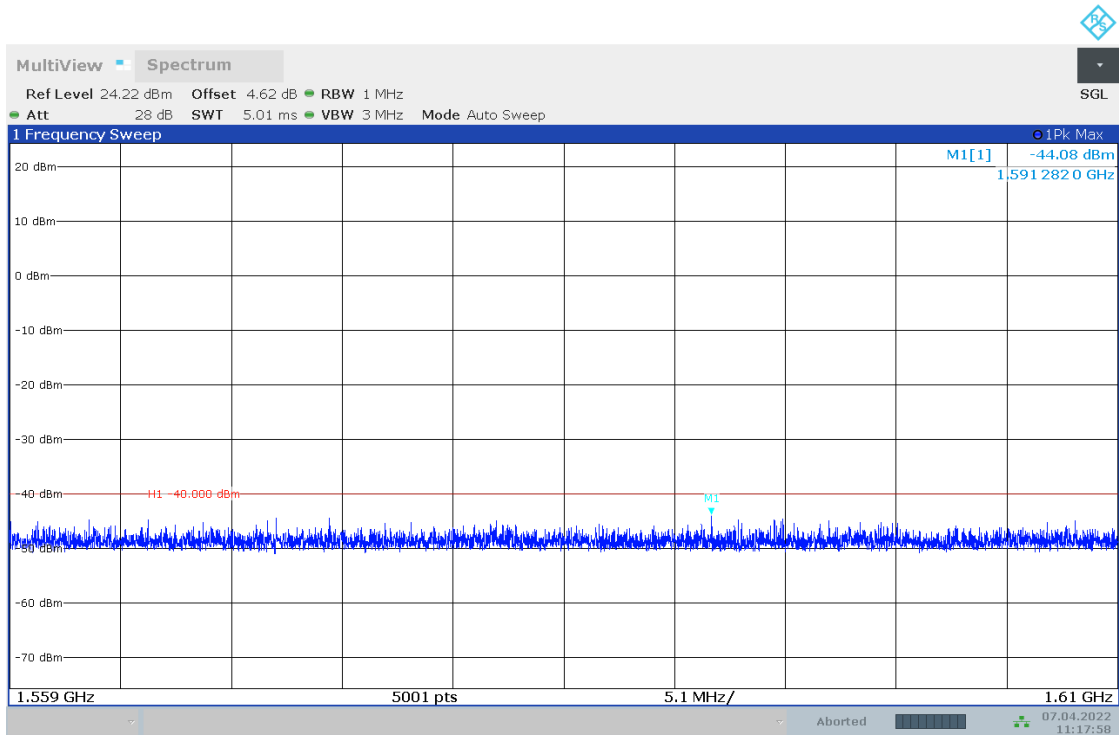
11:16:30 07.04.2022



11:17:00 07.04.2022

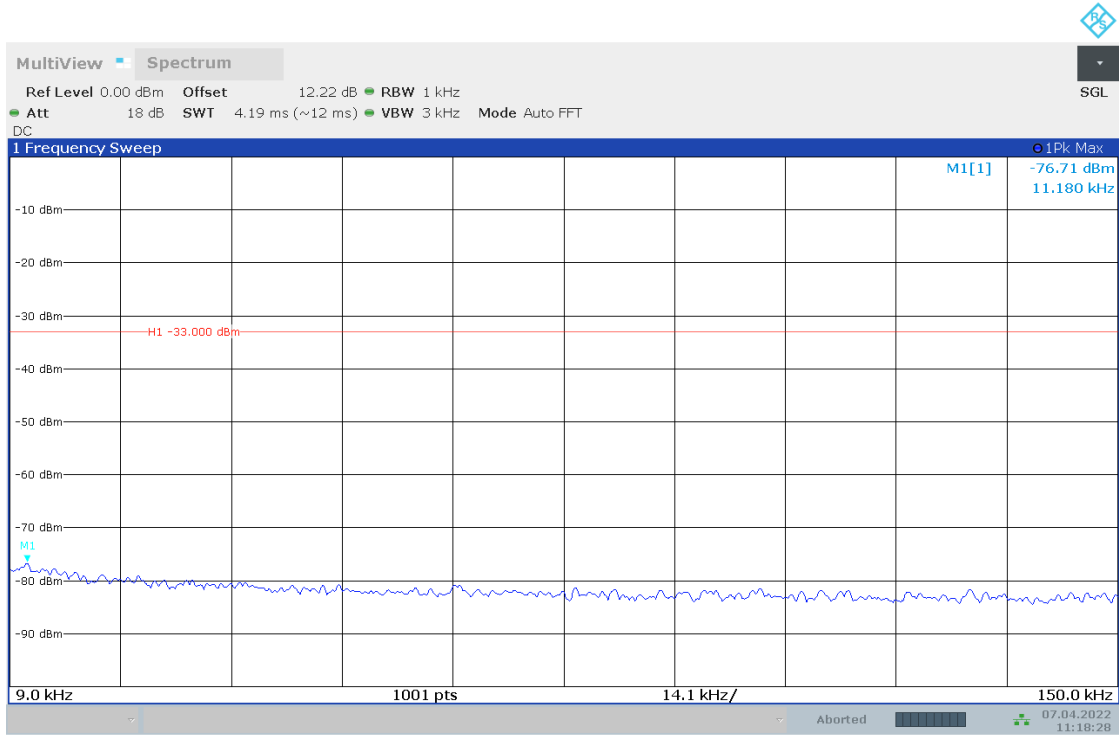


11:17:29 07.04.2022

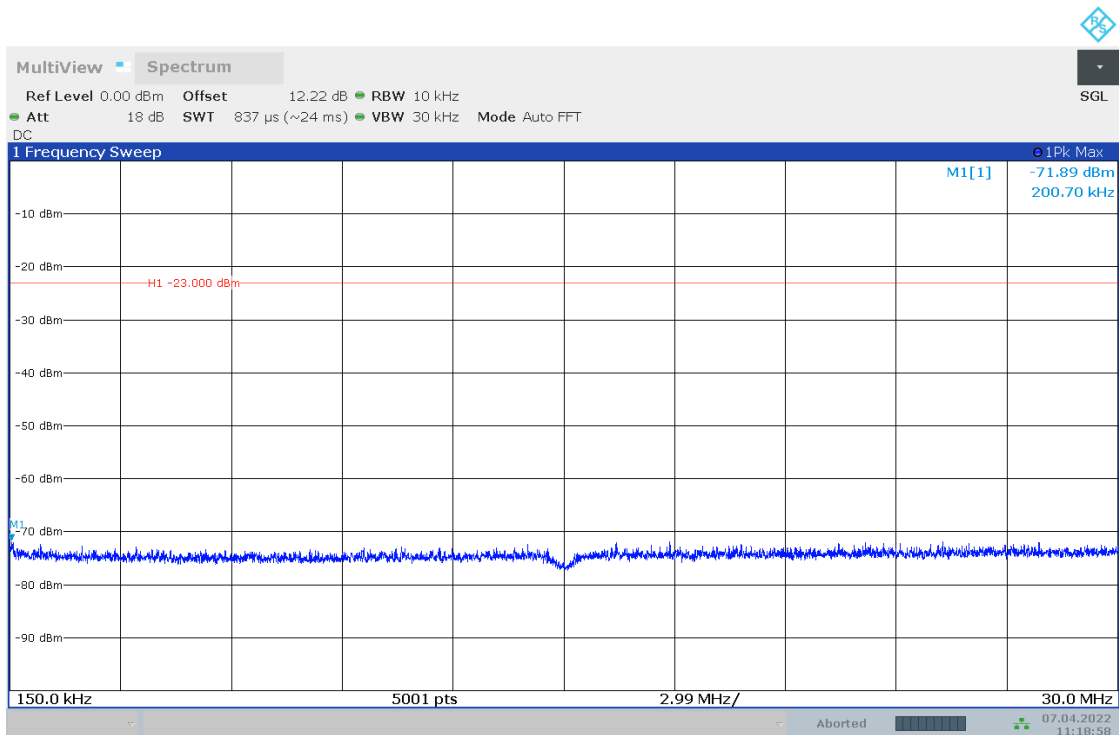


11:17:58 07.04.2022

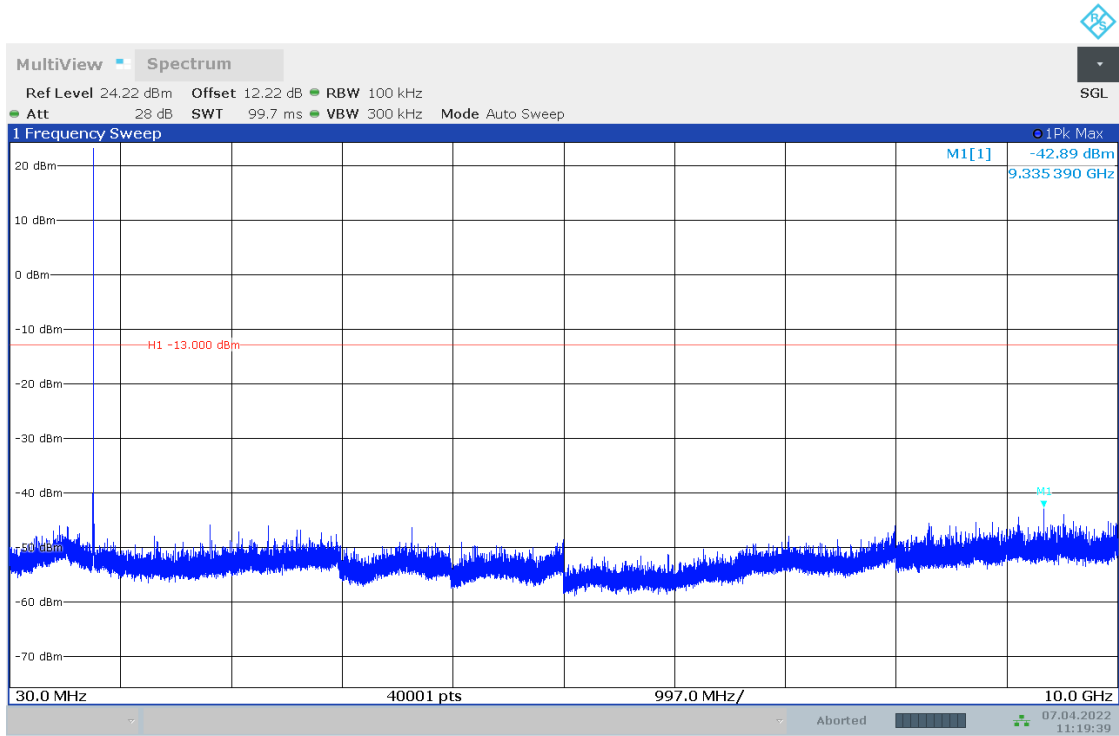
## 6.2.21 TM2\_5MHZ\_LCH\_RB1#24



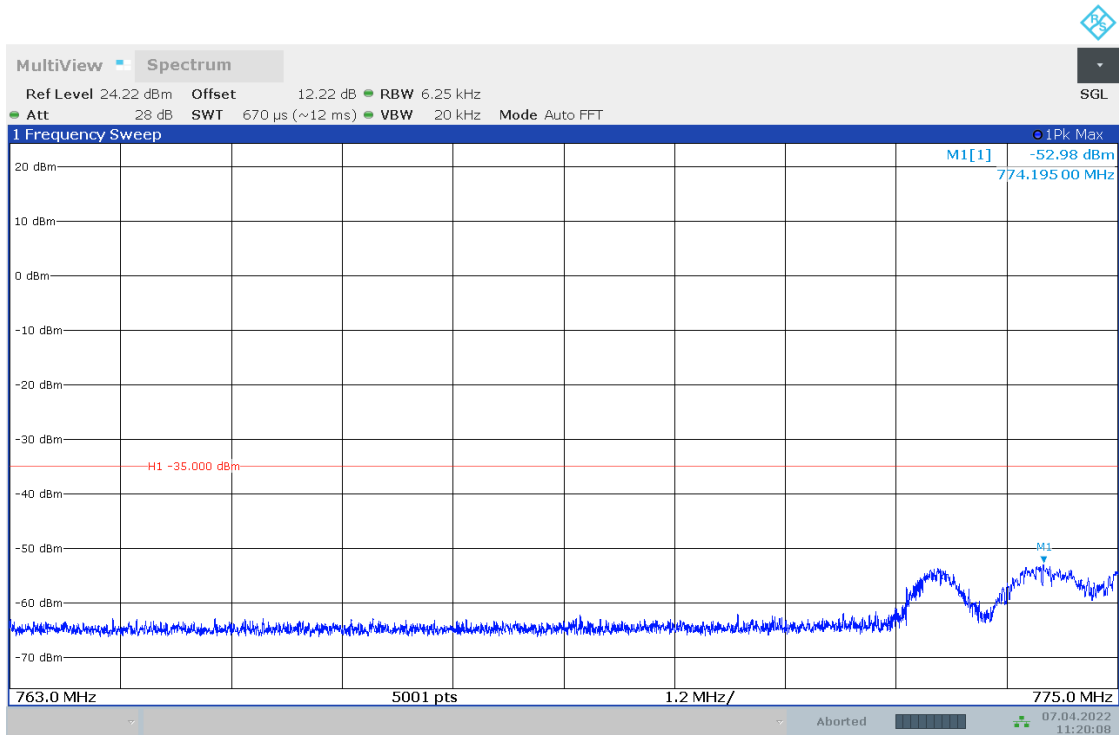
11:18:29 07.04.2022



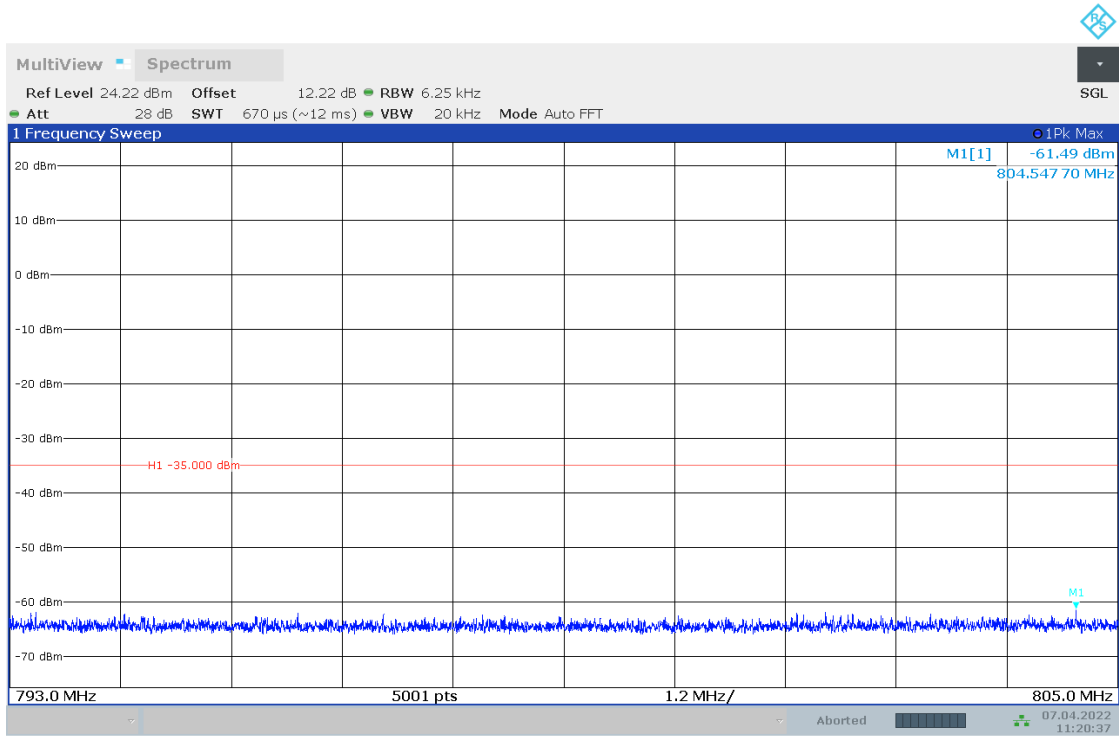
11:18:58 07.04.2022



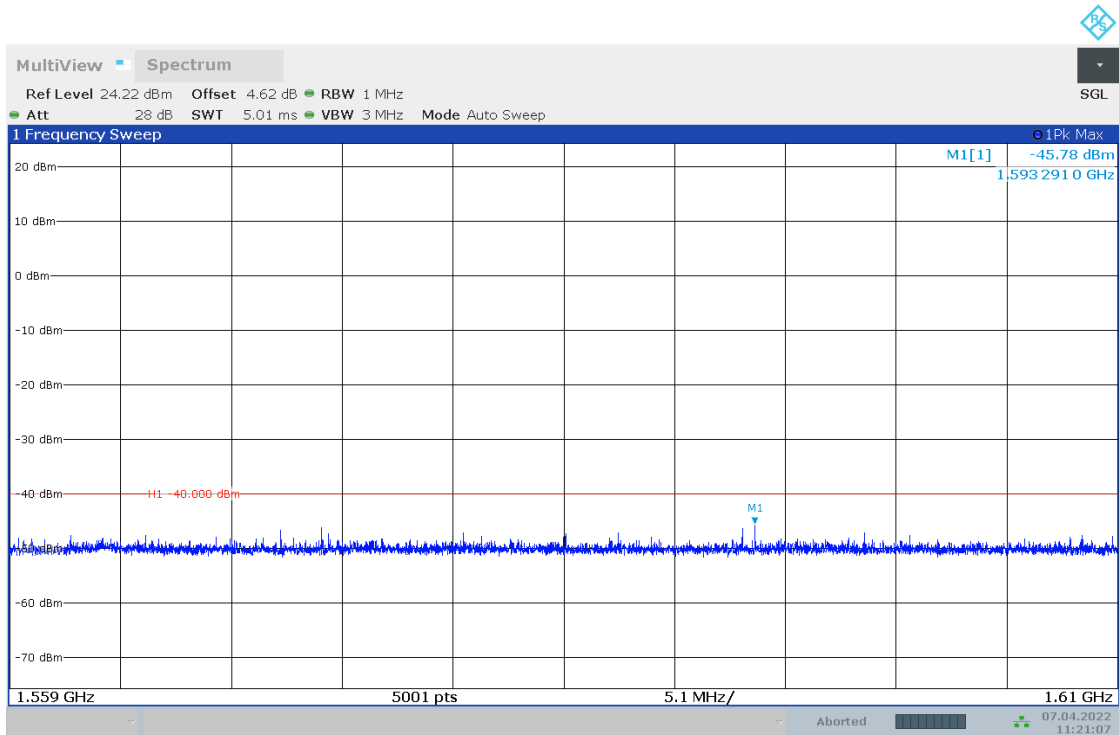
11:19:39 07.04.2022



11:20:08 07.04.2022

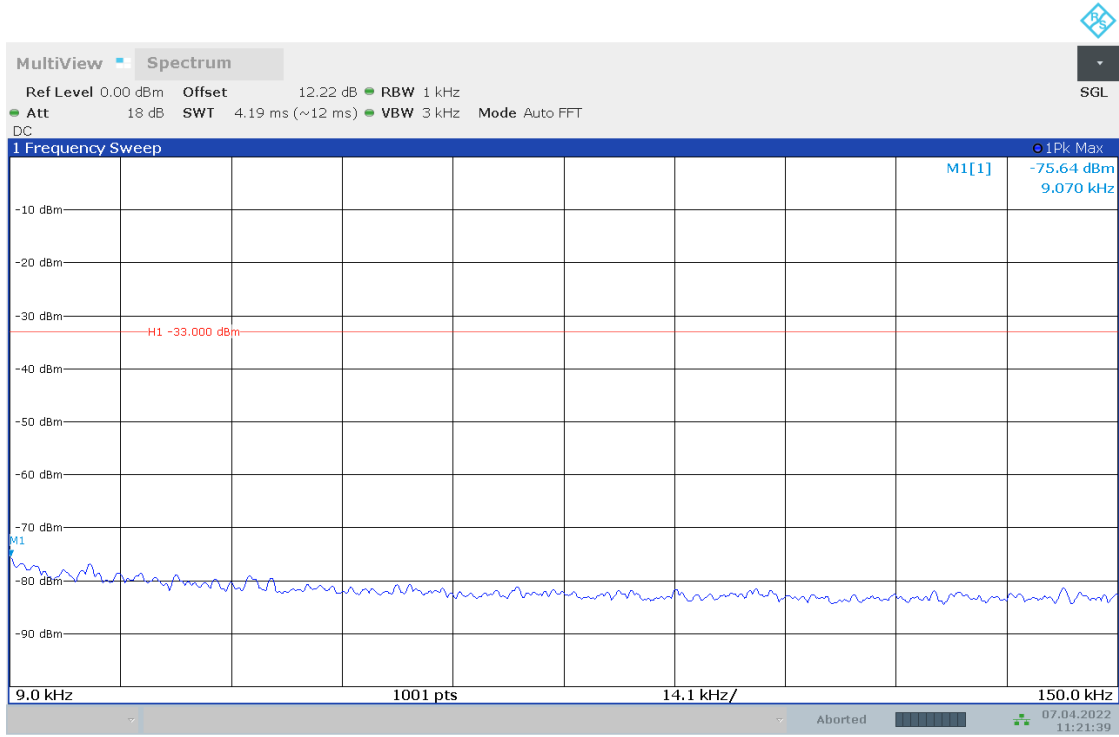


11:20:38 07.04.2022

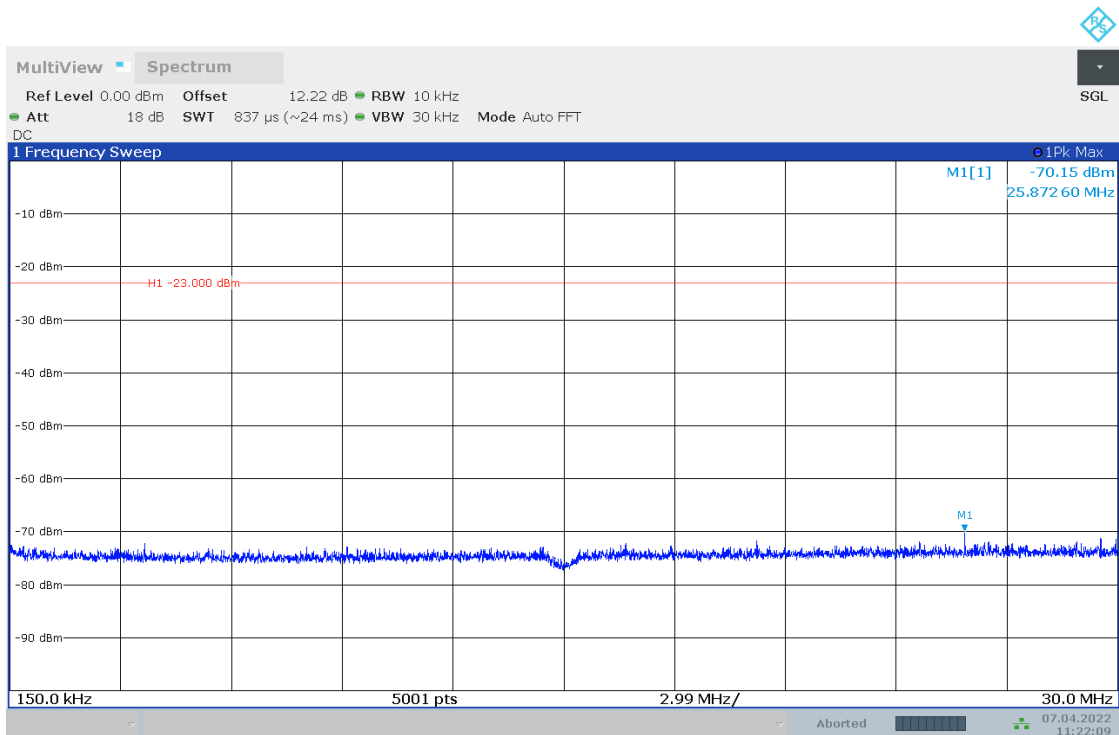


11:21:07 07.04.2022

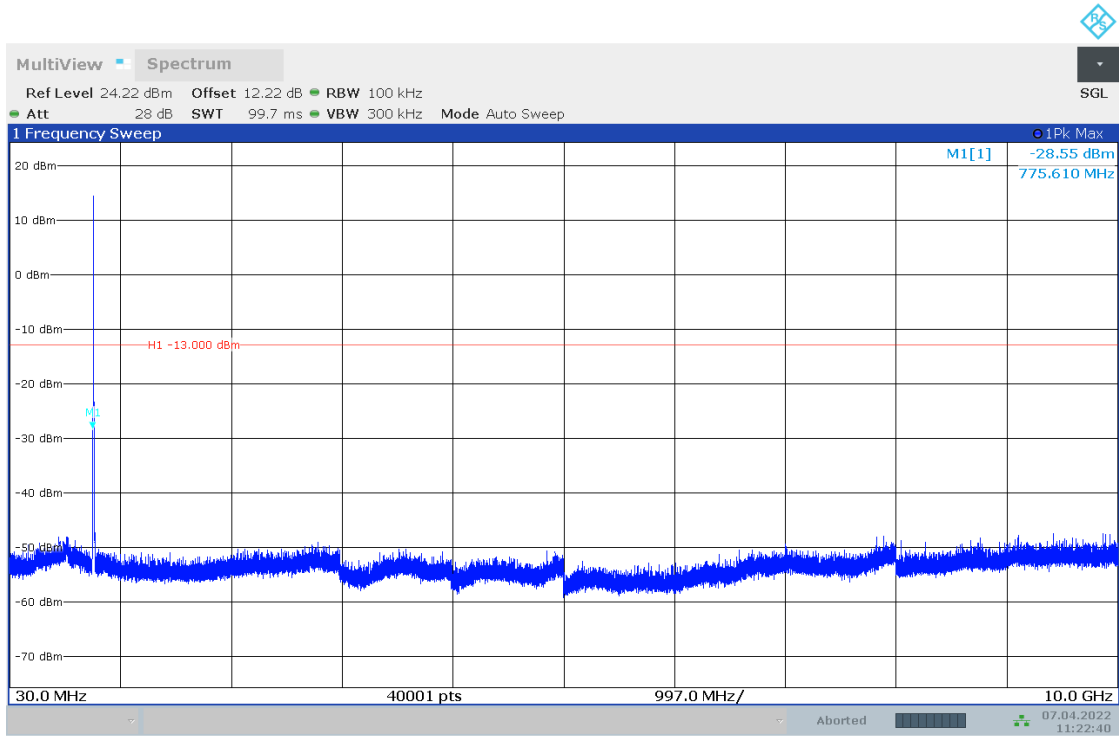
## 6.2.22 TM2\_5MHZ\_MCH\_RB25#0



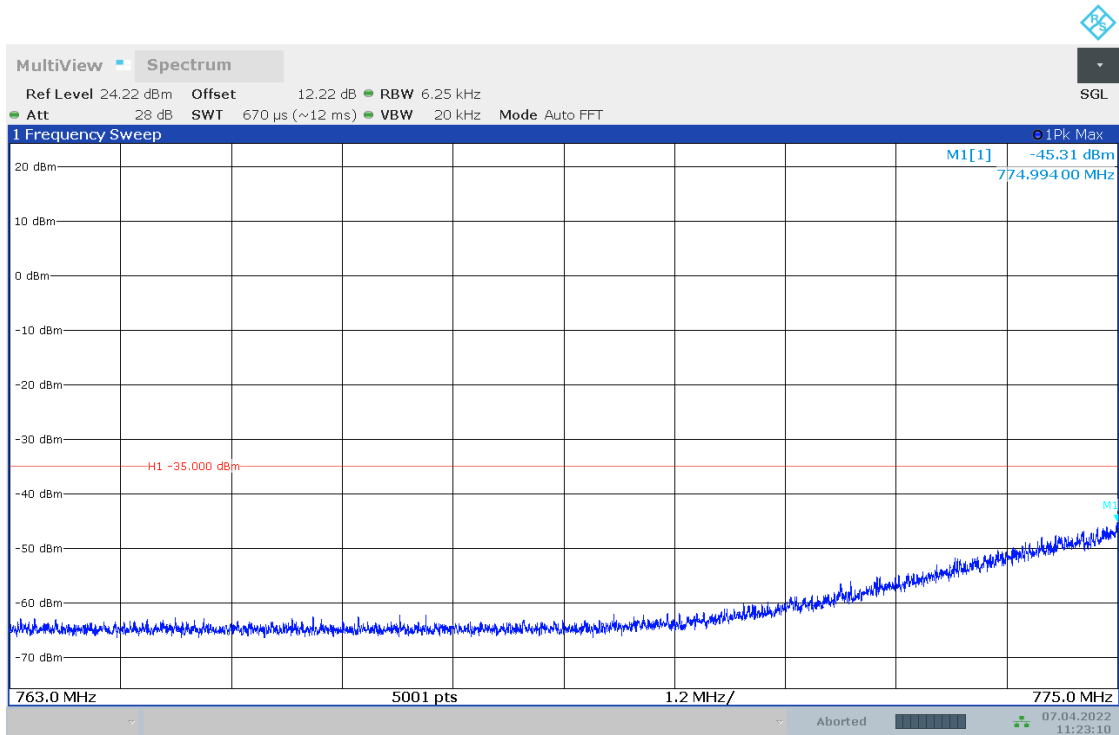
11:21:40 07.04.2022



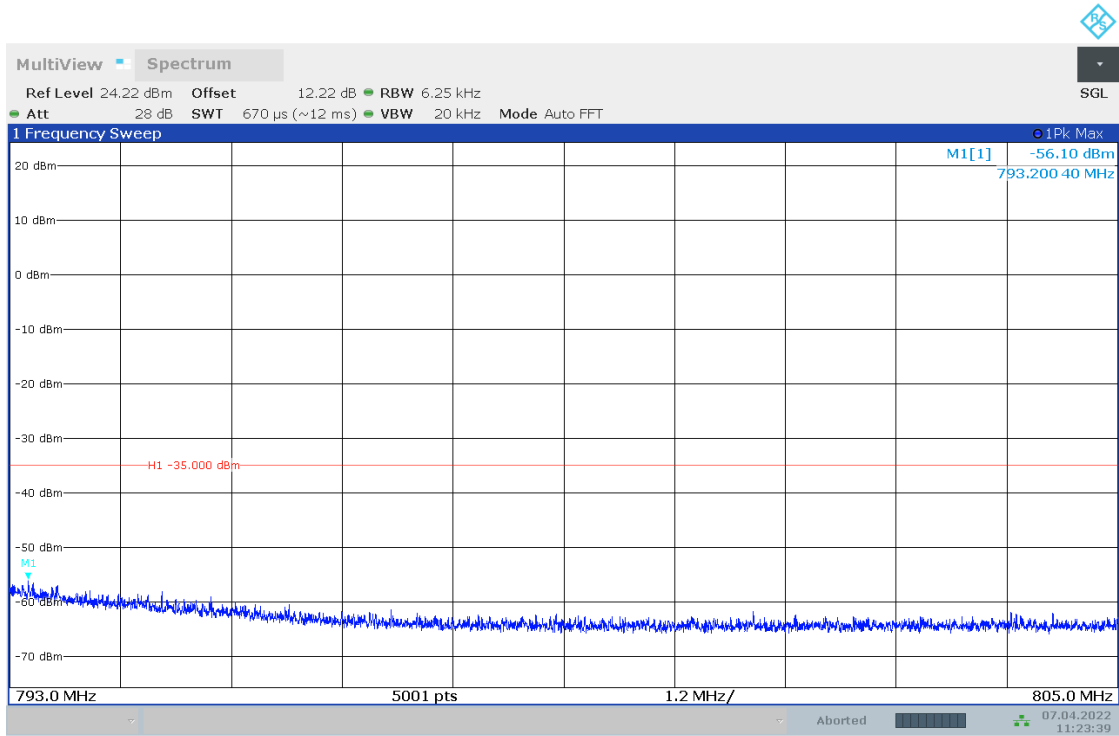
11:22:10 07.04.2022



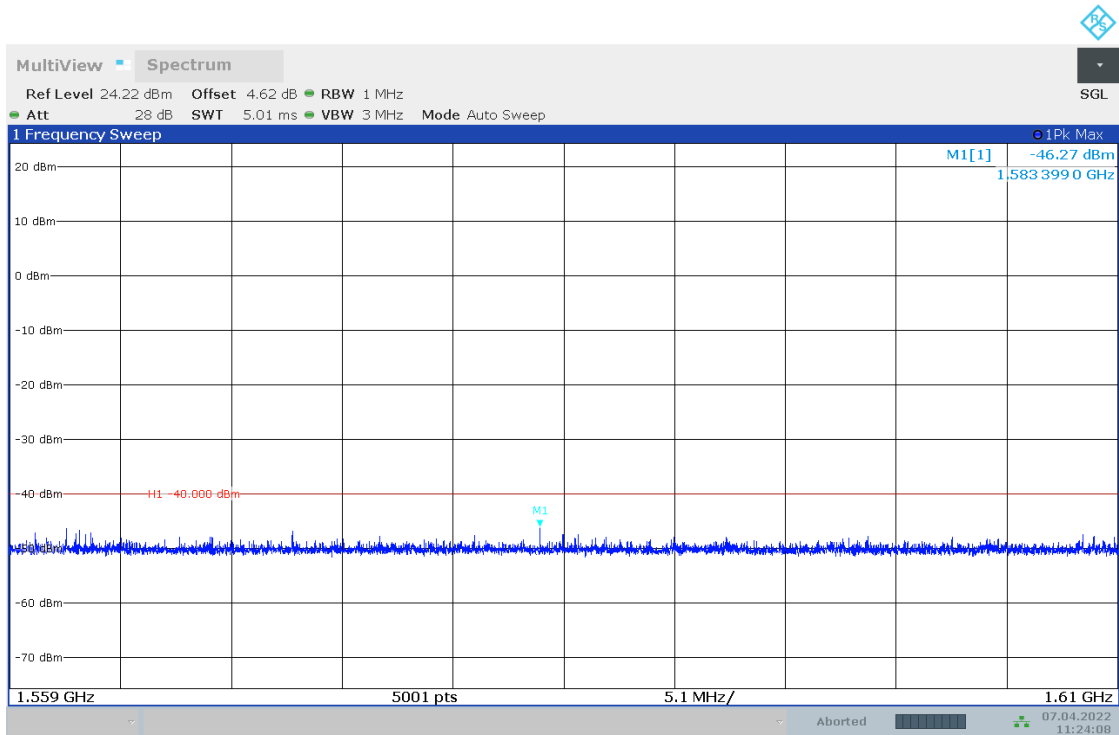
11:22:41 07.04.2022



11:23:10 07.04.2022



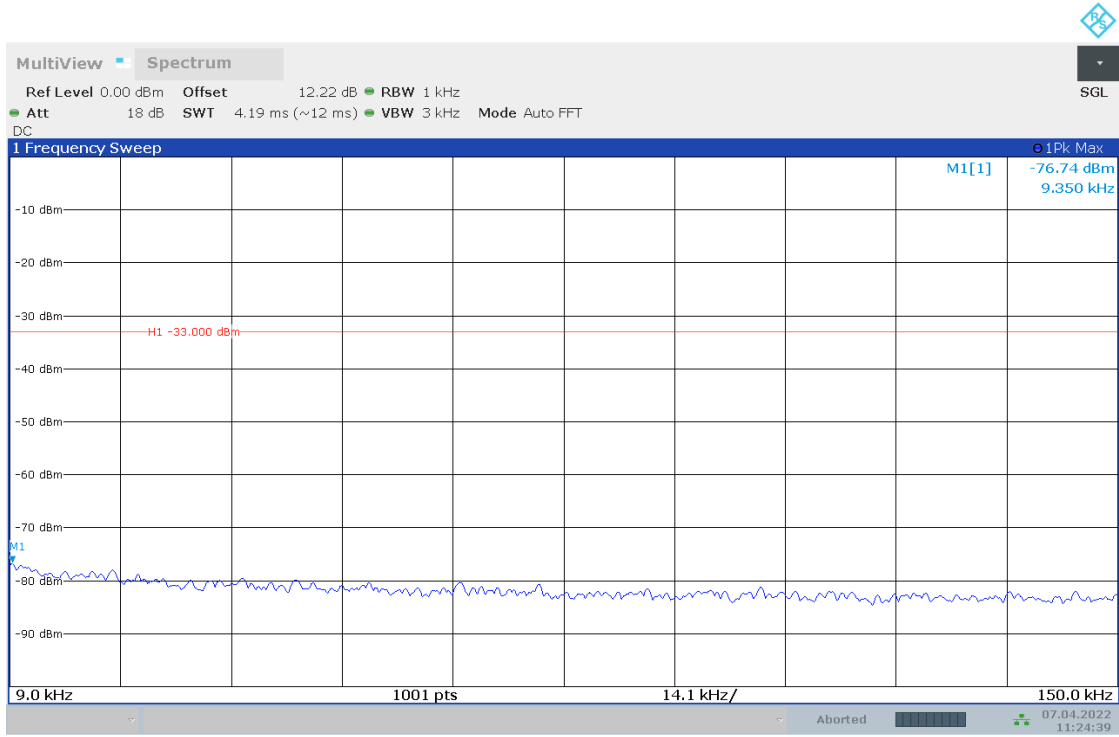
11:23:39 07.04.2022



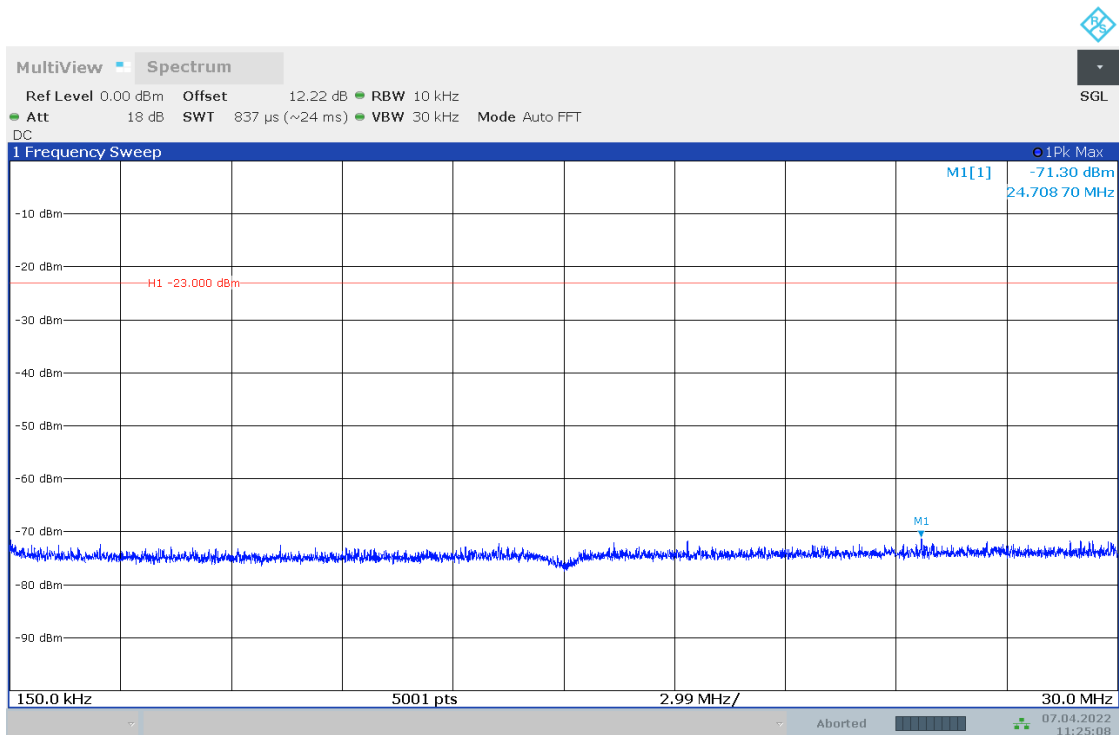
11:24:09 07.04.2022



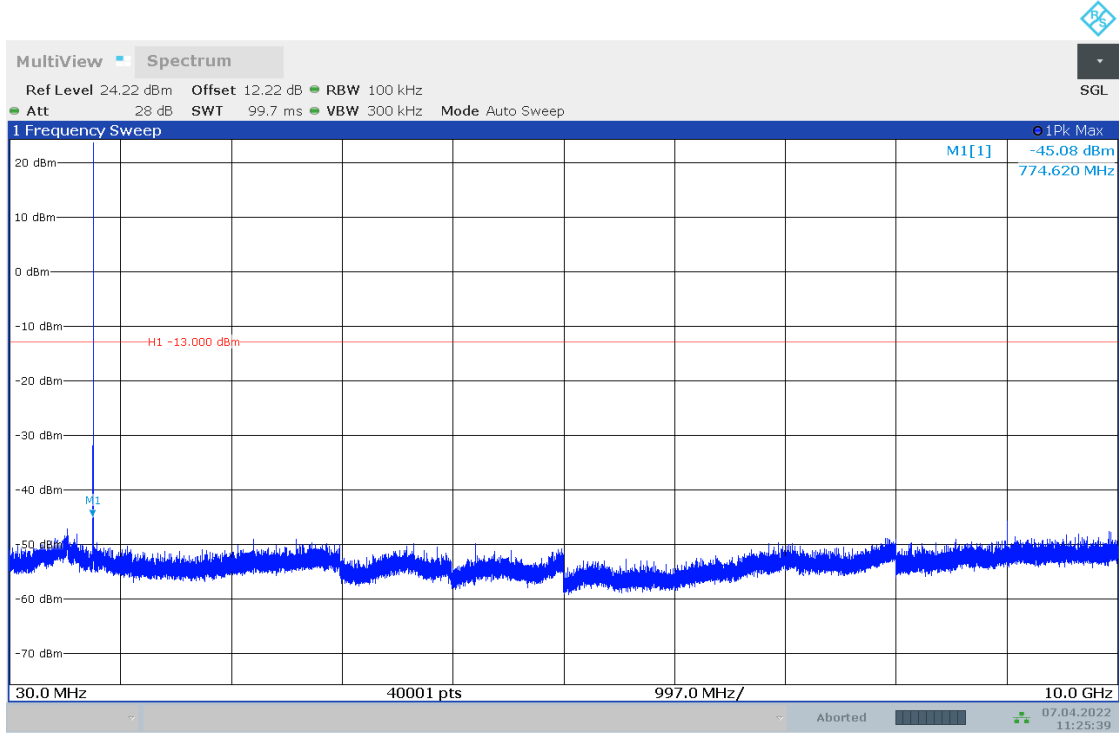
## 6.2.23 TM2\_5MHZ\_MCH\_RB1#0



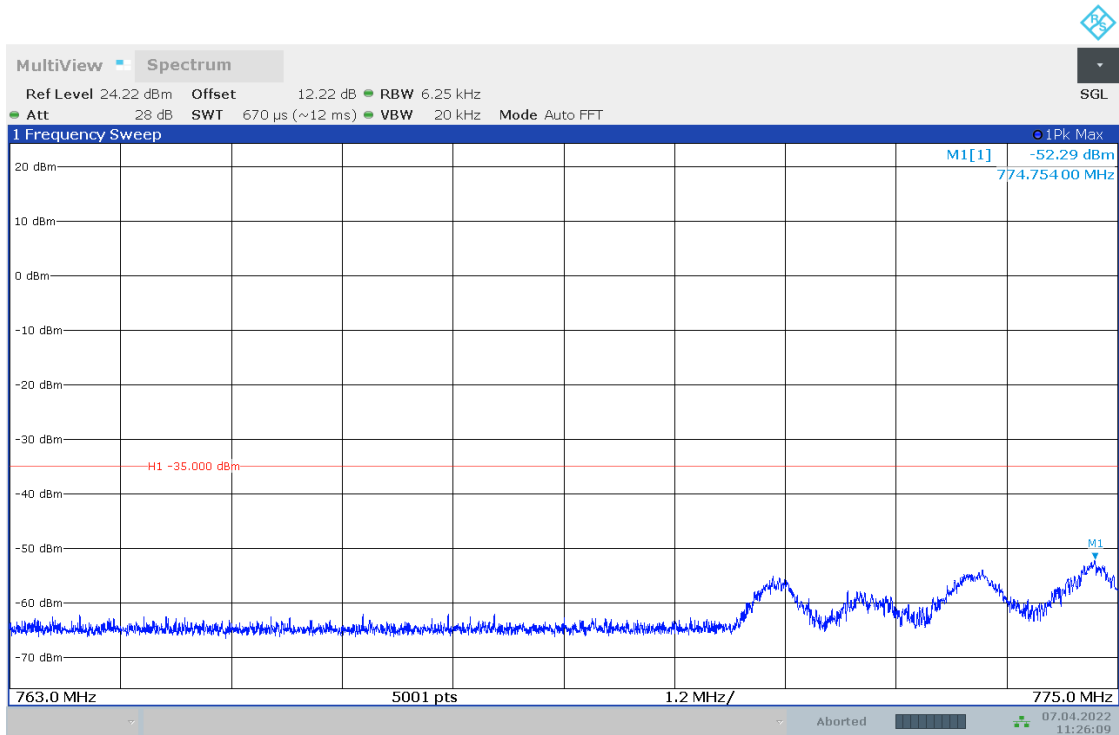
11:24:40 07.04.2022



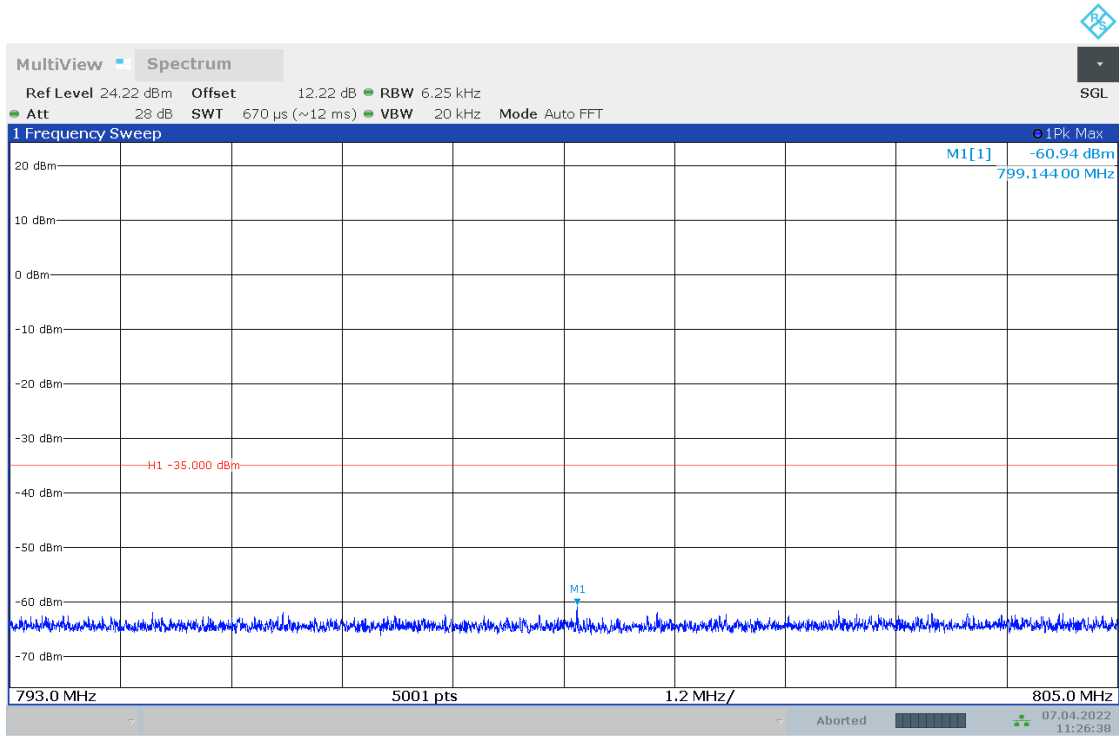
11:25:09 07.04.2022



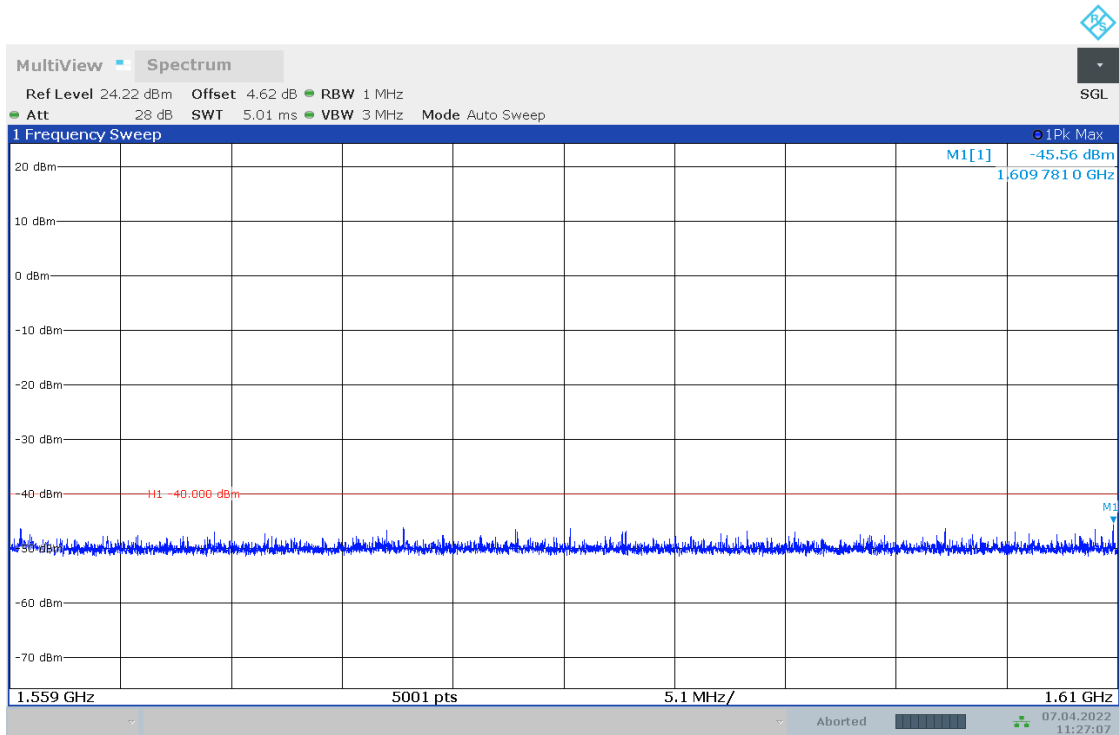
11:25:40 07.04.2022



11:26:09 07.04.2022

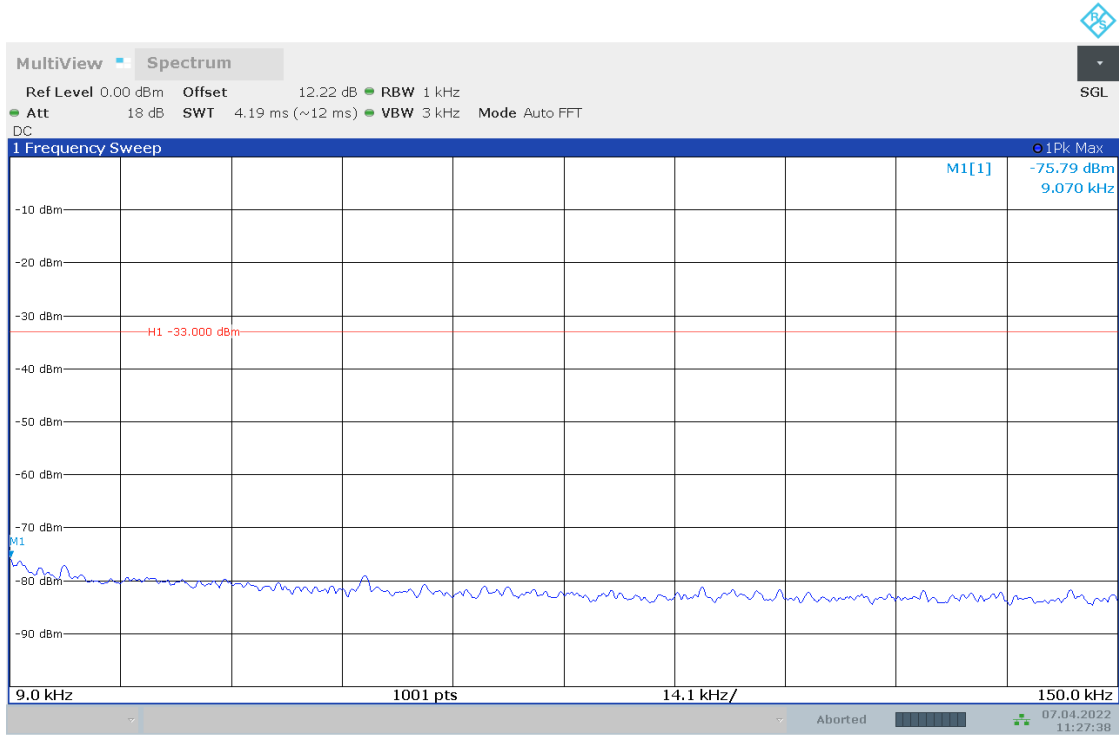


11:26:39 07.04.2022

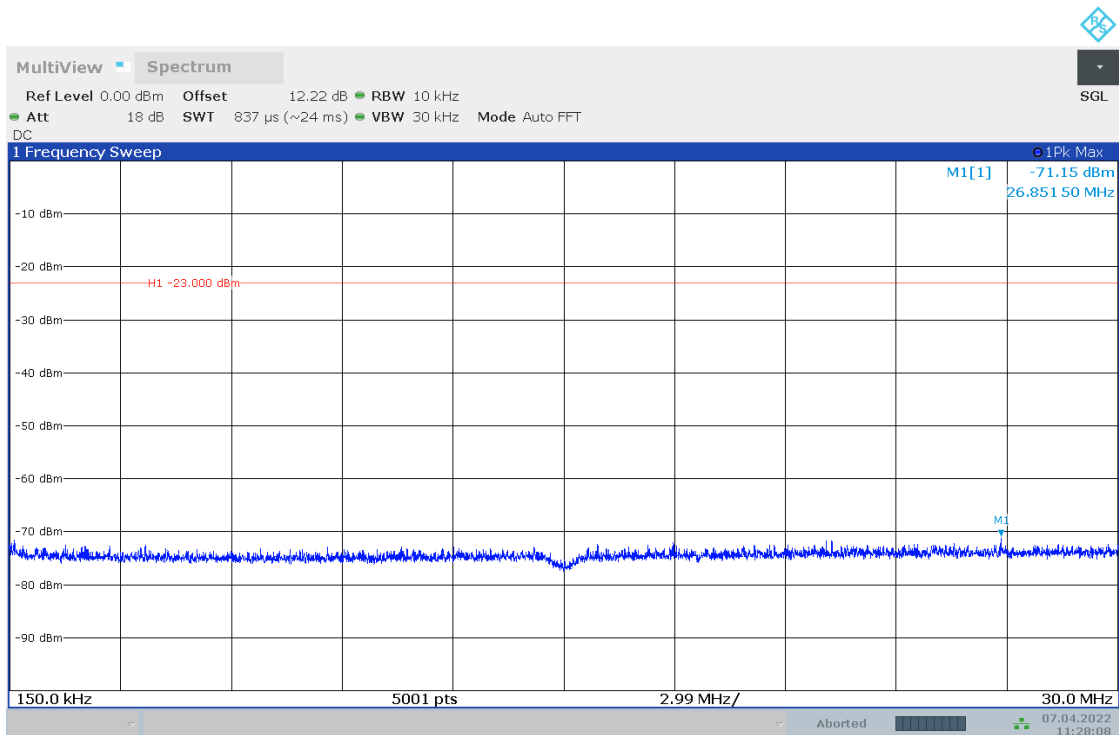


11:27:08 07.04.2022

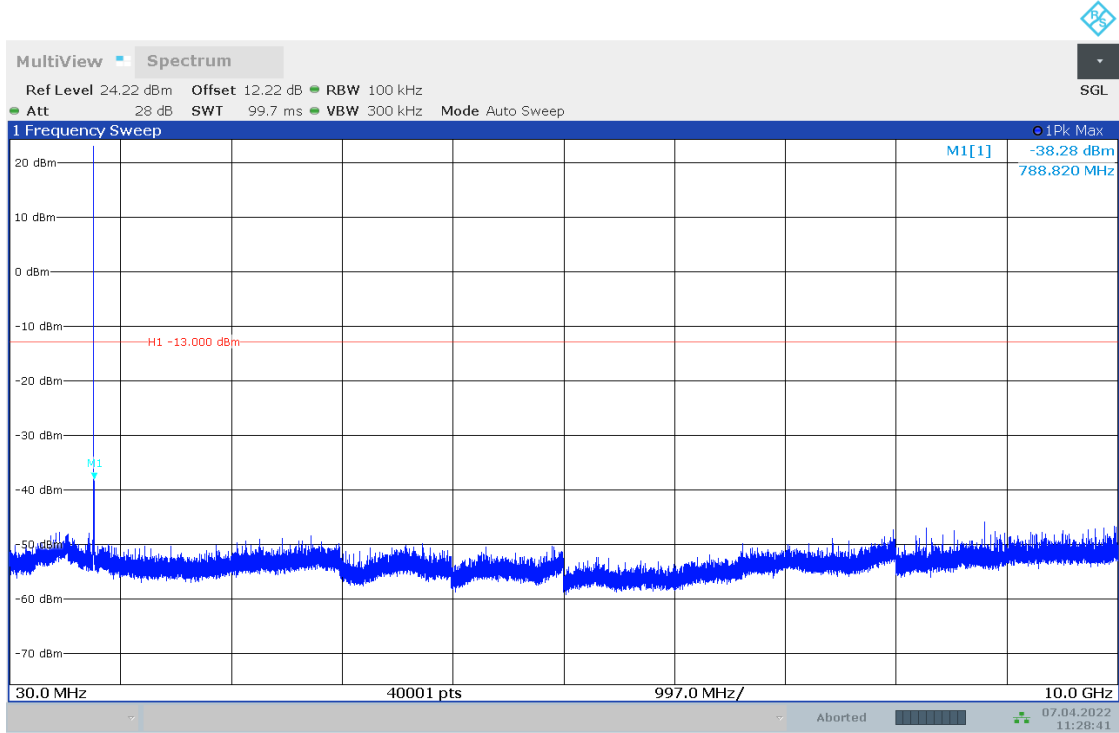
## 6.2.24 TM2\_5MHZ\_MCH\_RB1#24



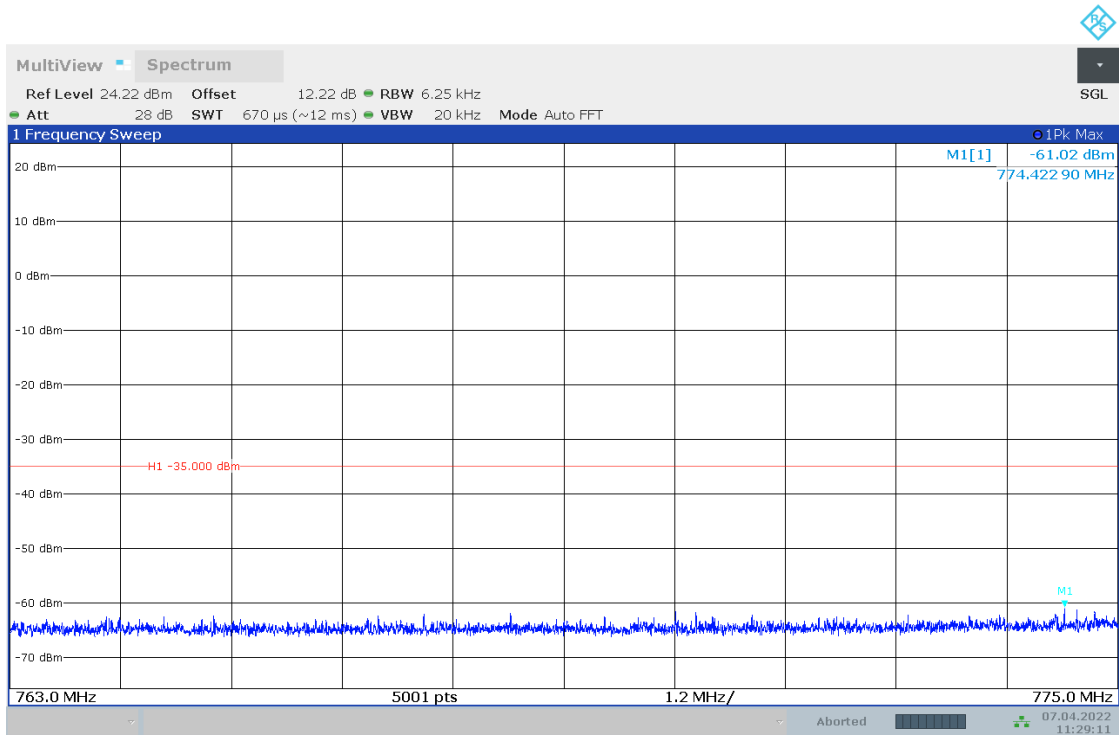
11:27:39 07.04.2022



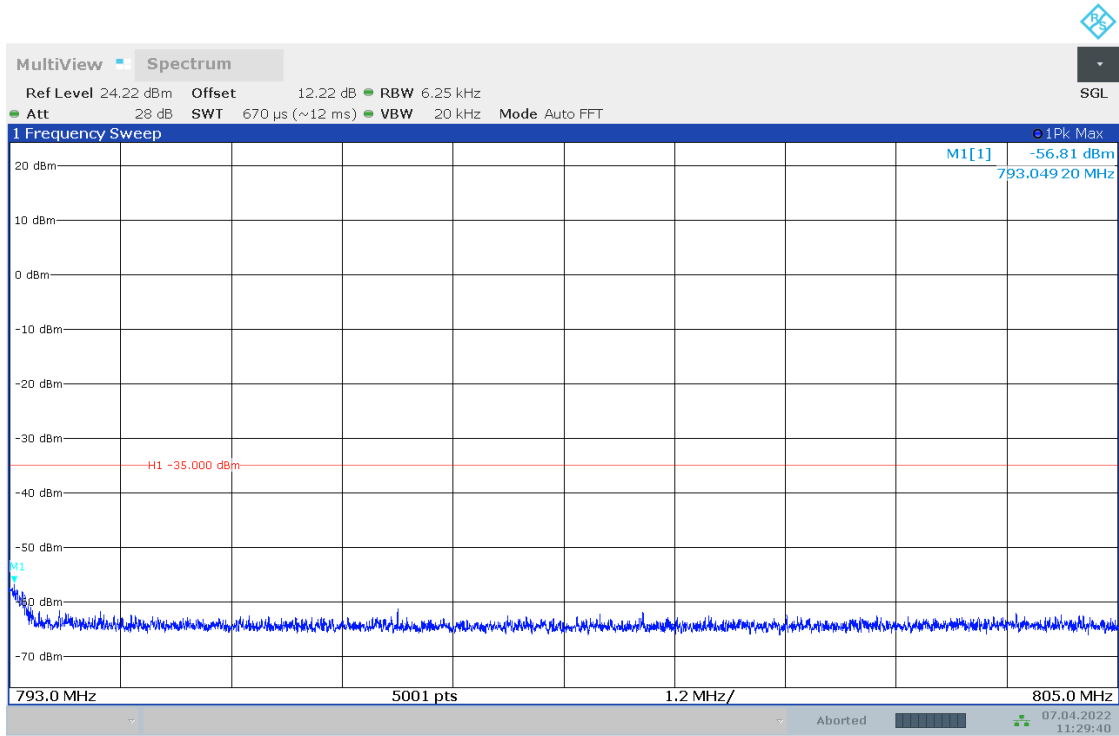
11:28:08 07.04.2022



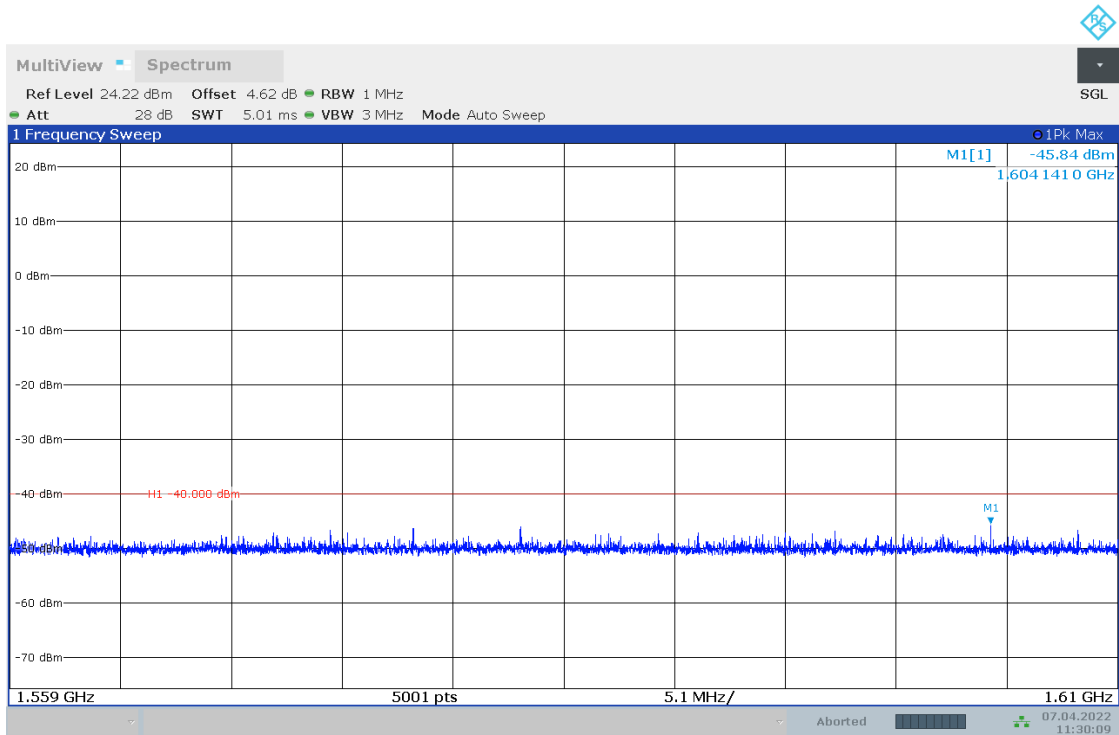
11:28:42 07.04.2022



11:29:11 07.04.2022

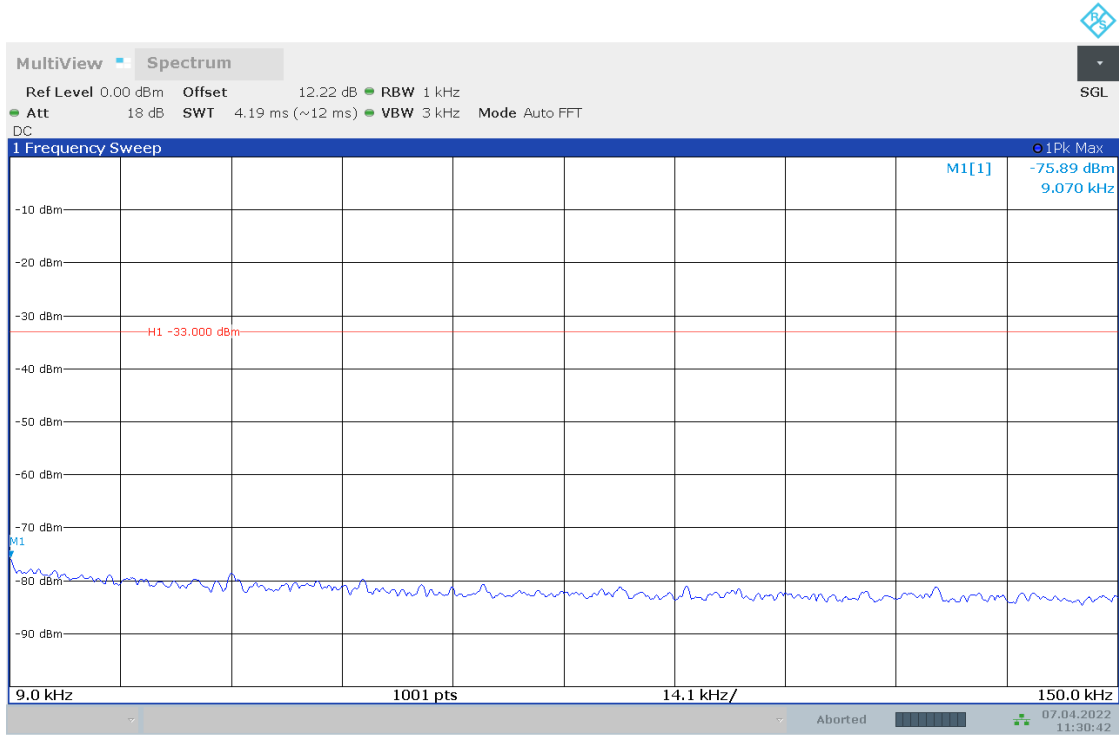


11:29:41 07.04.2022

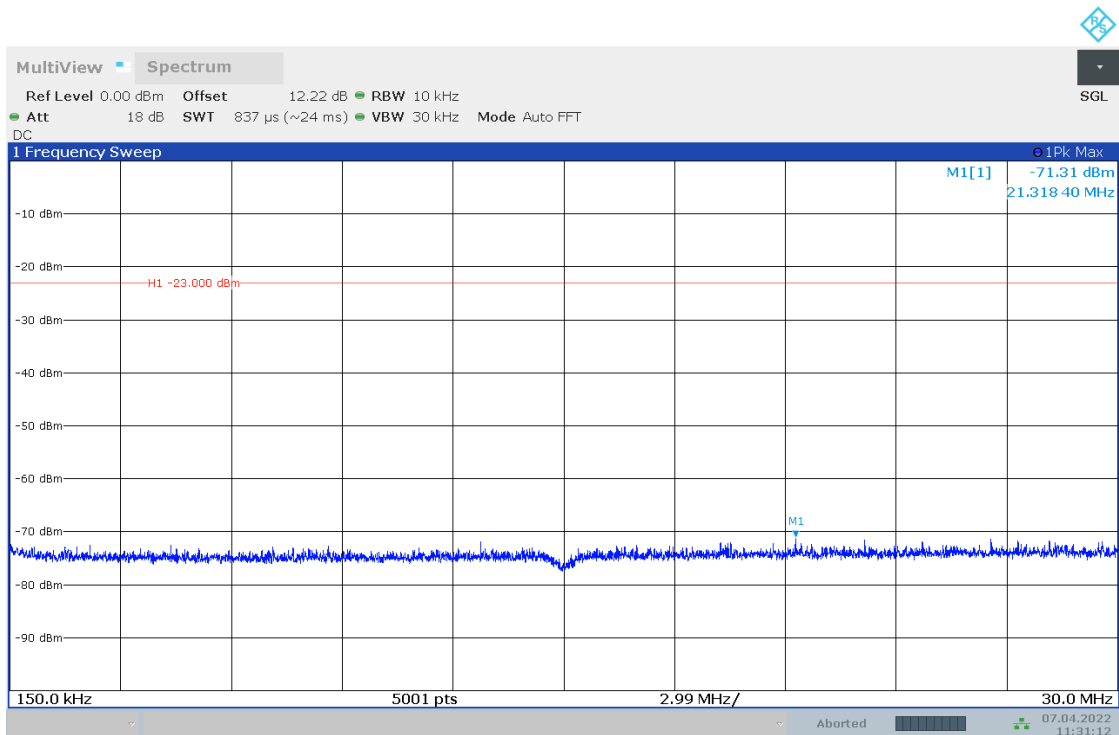


11:30:10 07.04.2022

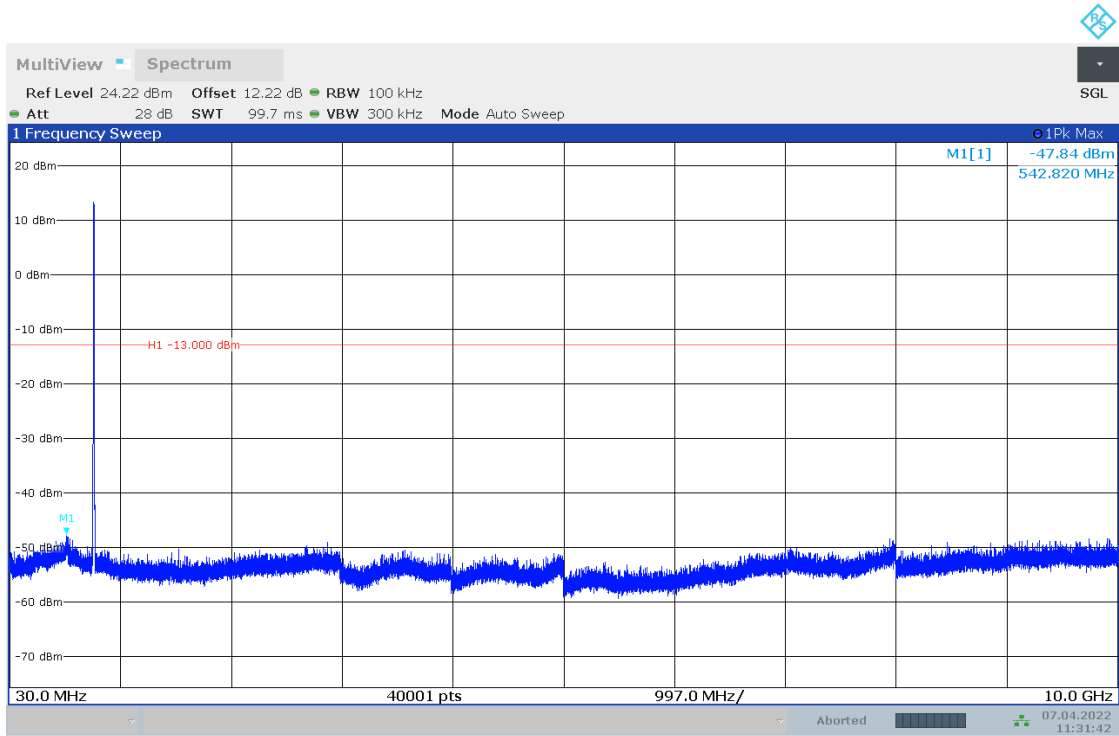
## 6.2.25 TM2\_5MHZ\_HCH\_RB25#0



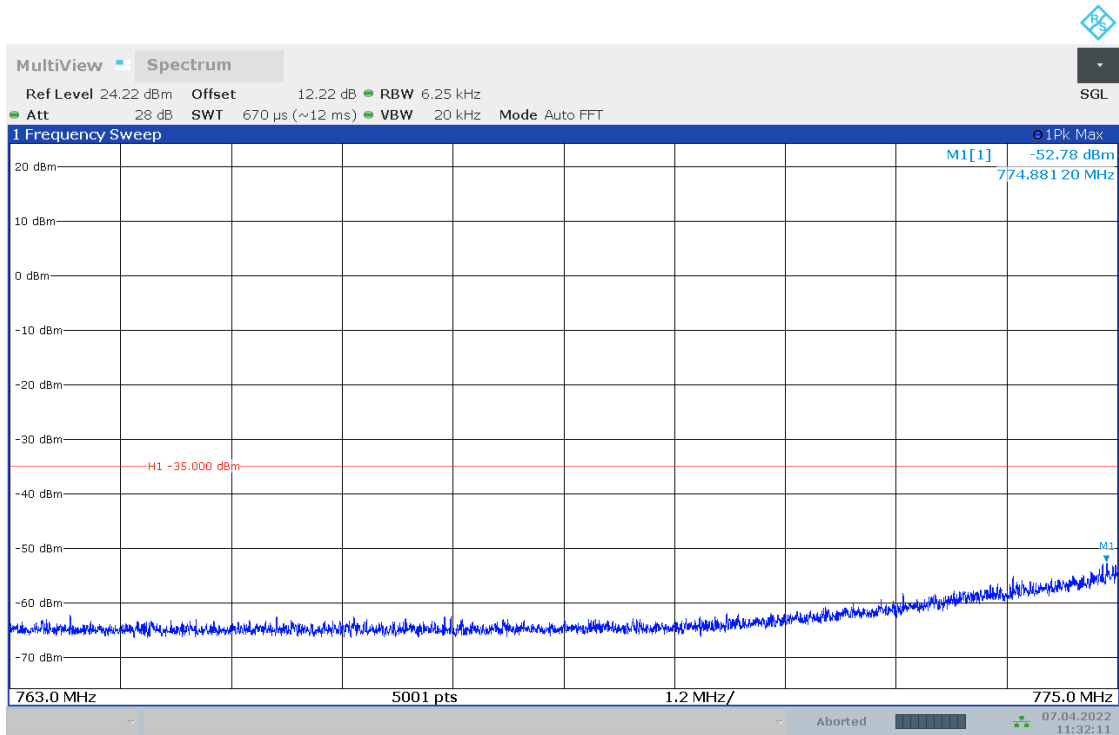
11:30:43 07.04.2022



11:31:13 07.04.2022

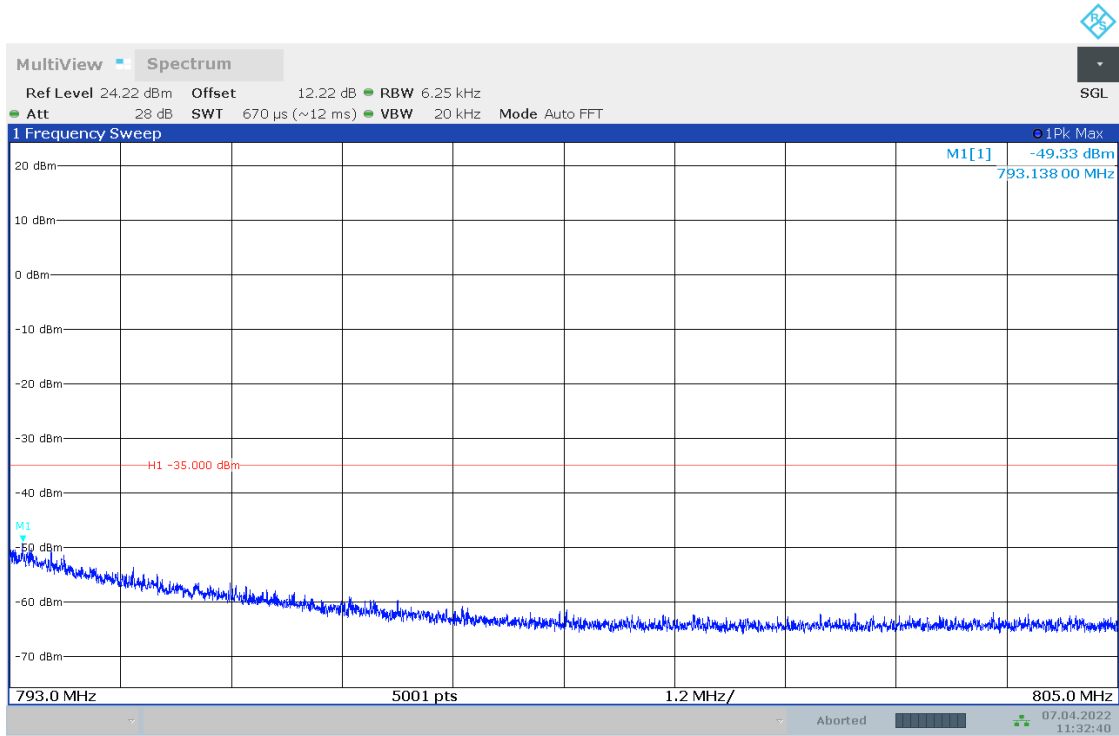


11:31:43 07.04.2022

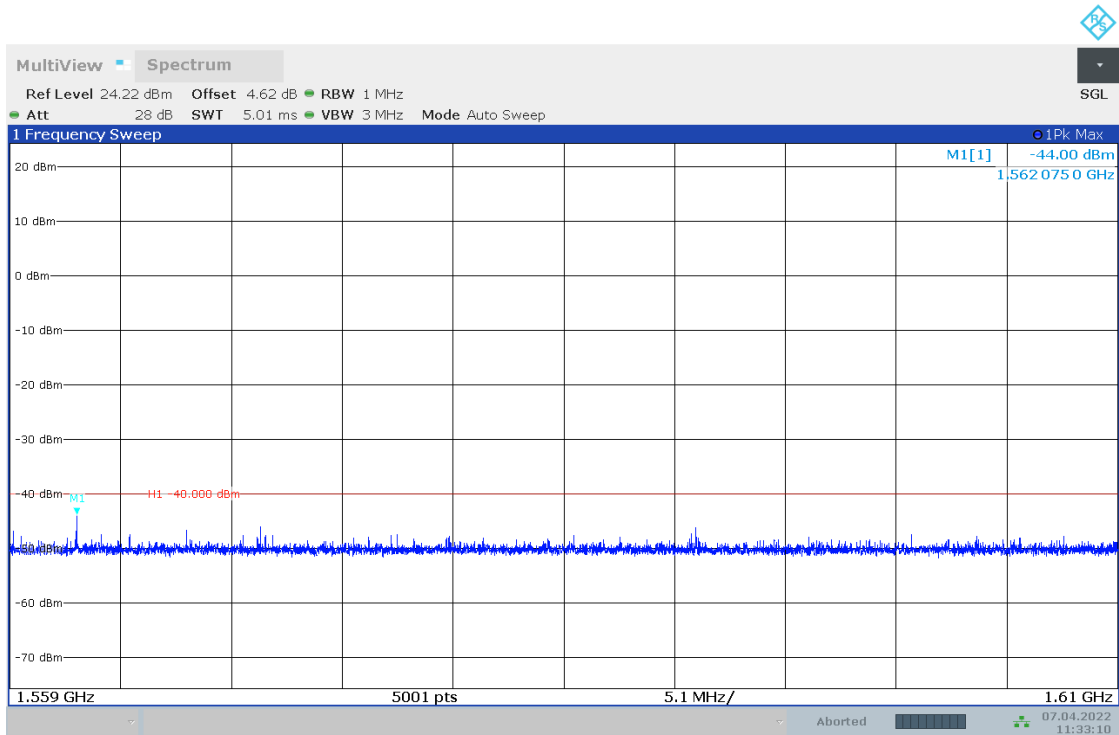


11:32:12 07.04.2022



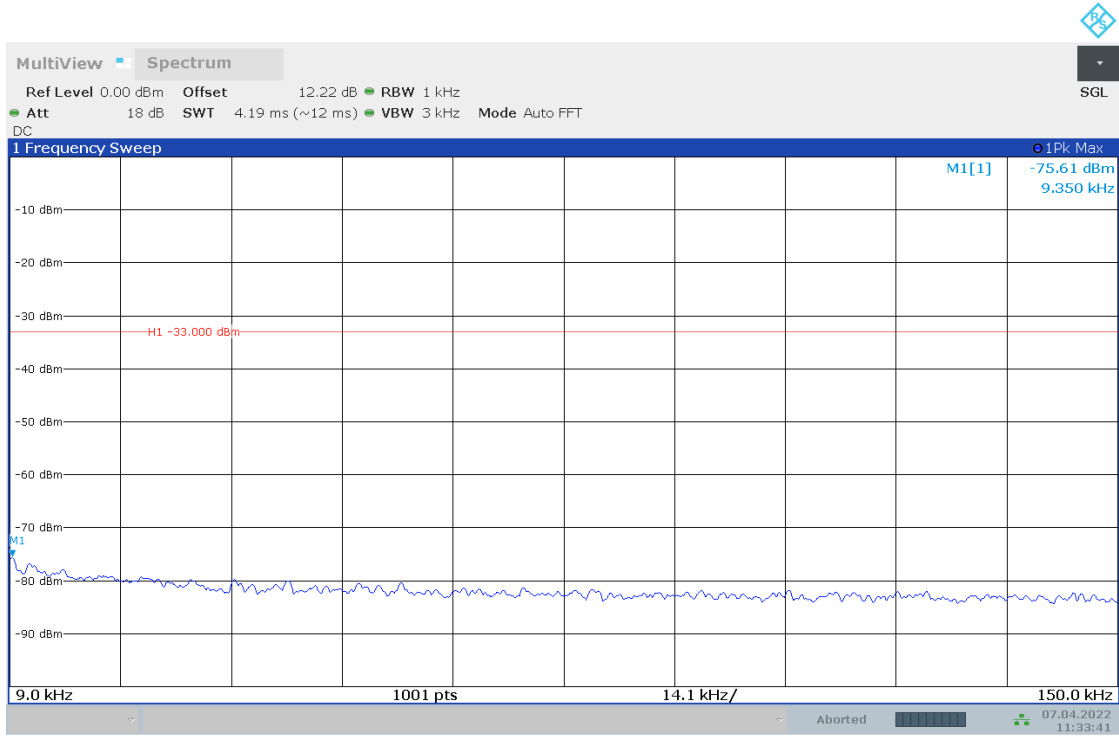


11:32:41 07.04.2022

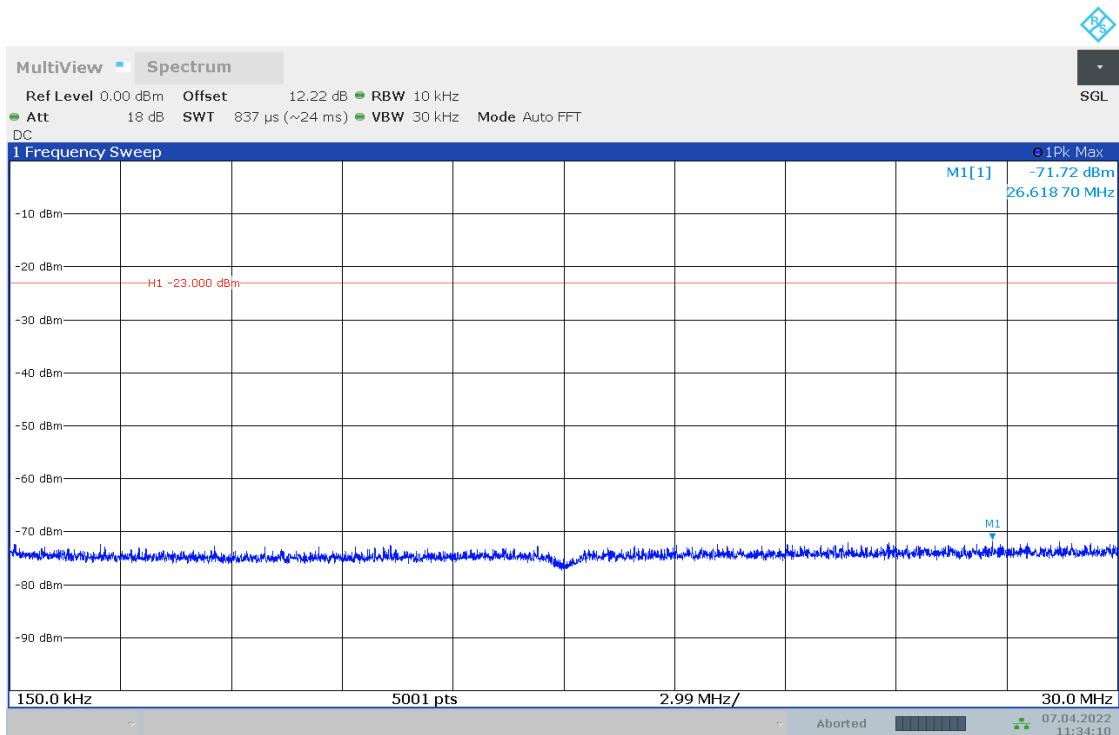


11:33:11 07.04.2022

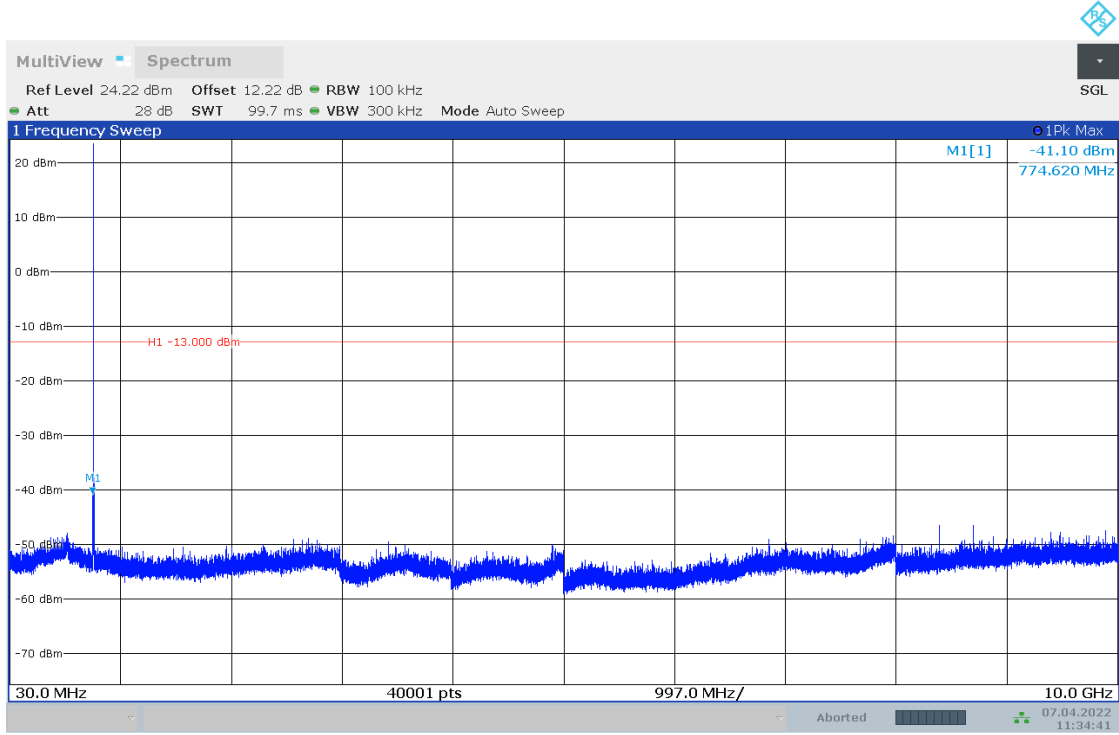
## 6.2.26 TM2\_5MHZ\_HCH\_RB1#0



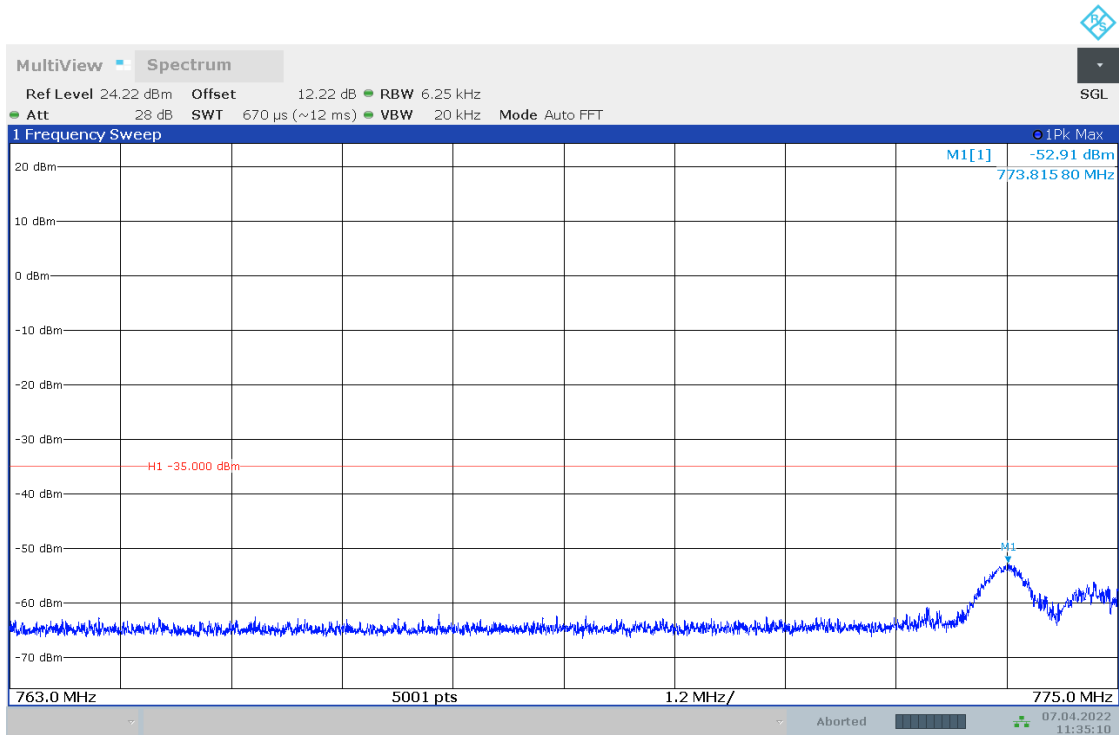
11:33:41 07.04.2022



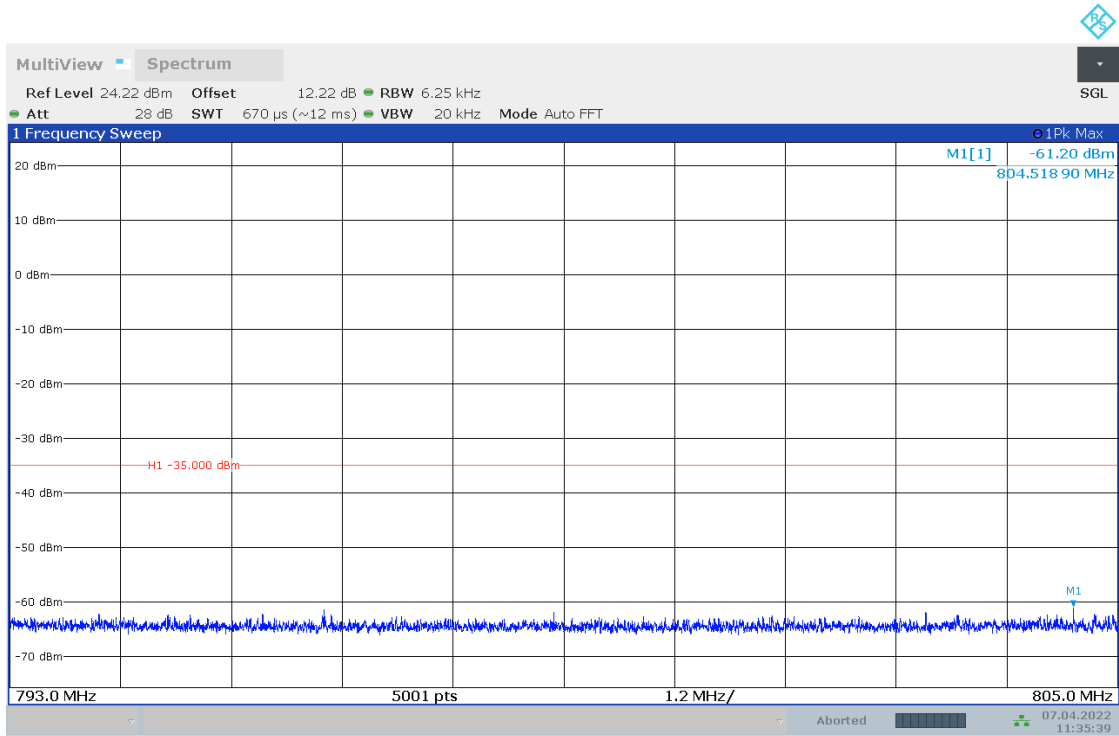
11:34:11 07.04.2022



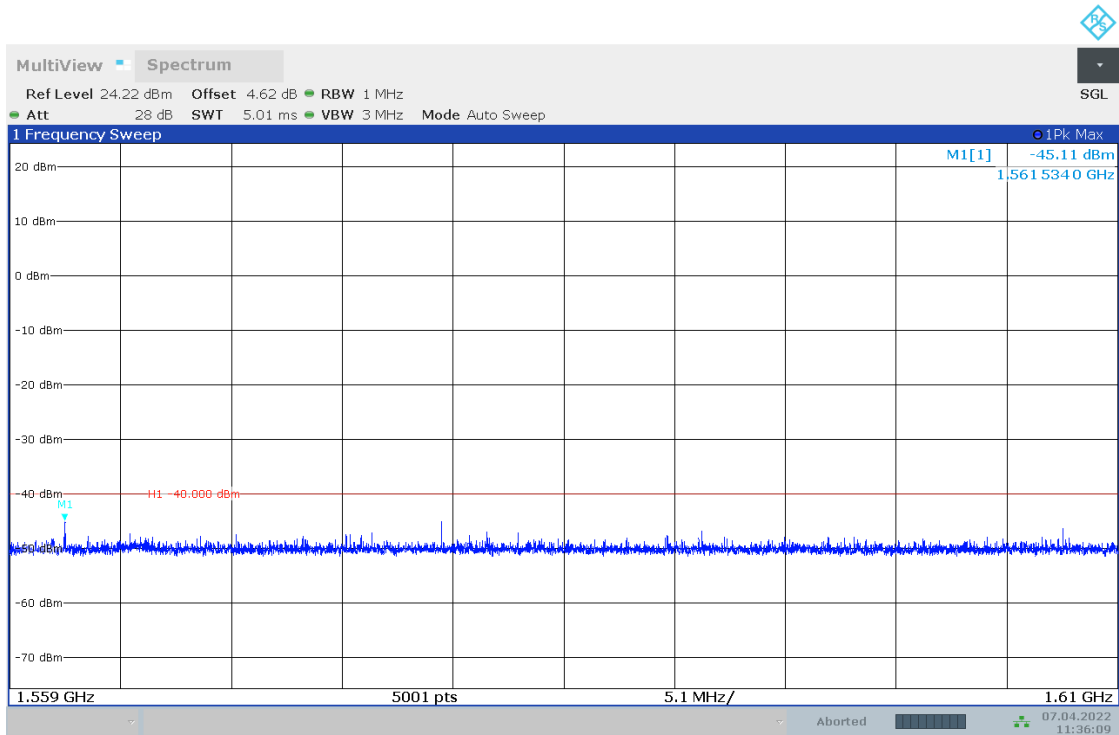
11:34:42 07.04.2022



11:35:11 07.04.2022

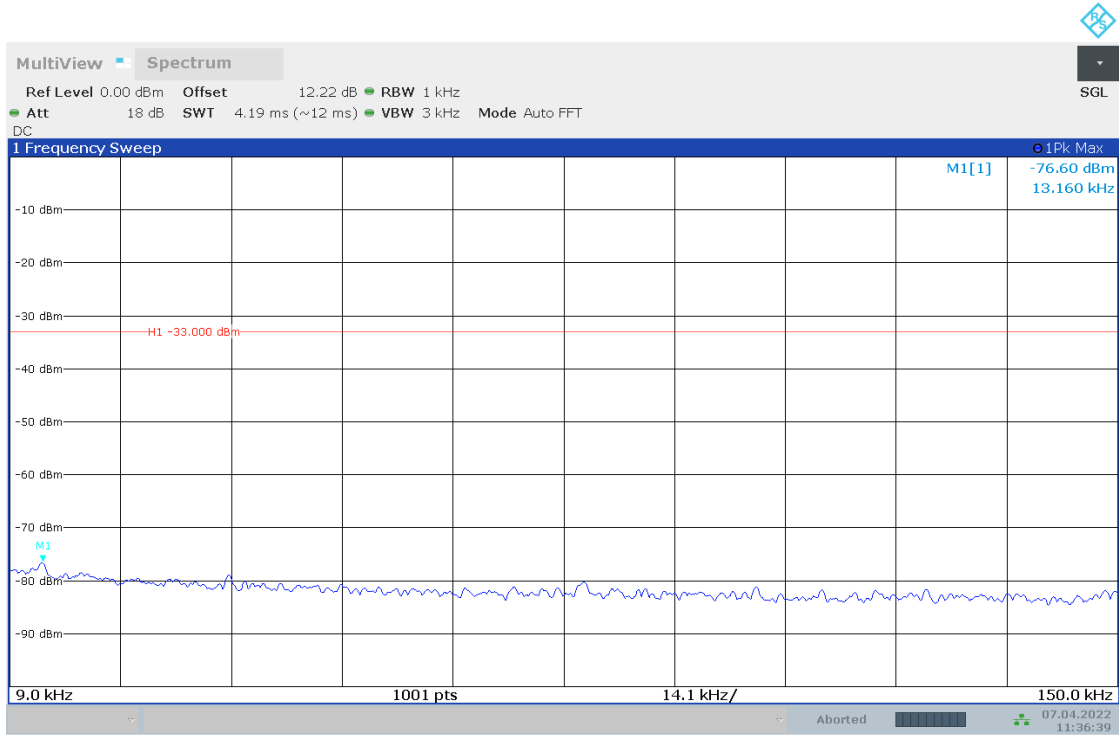


11:35:40 07.04.2022

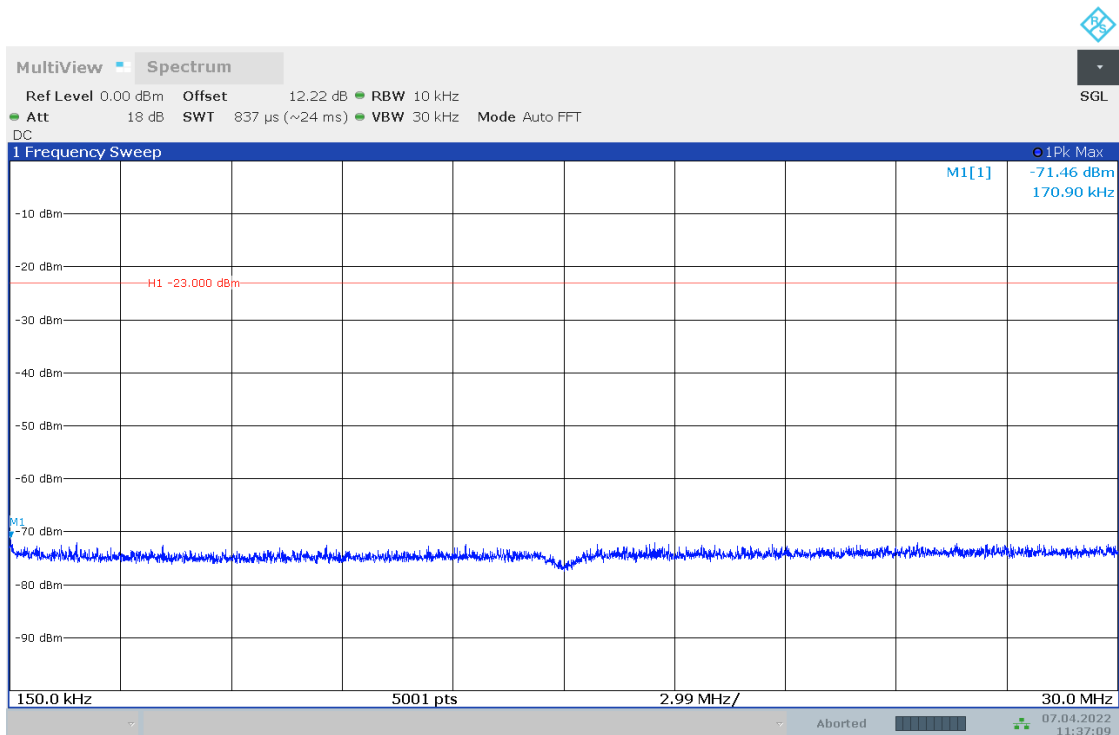


11:36:10 07.04.2022

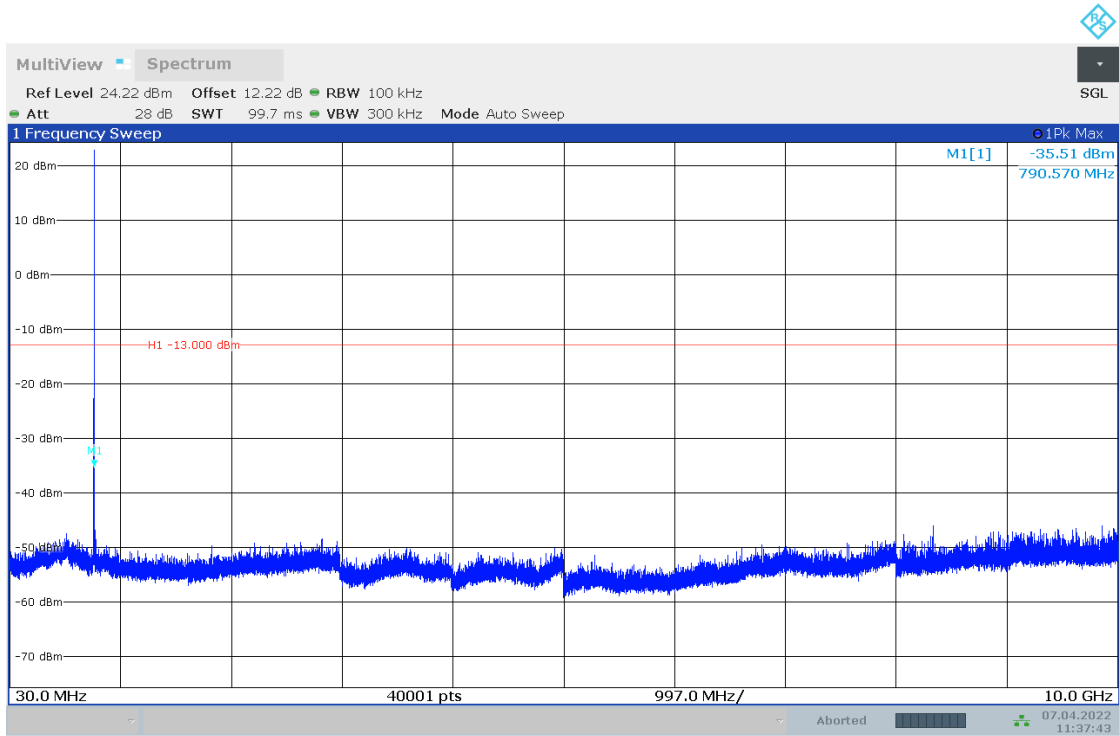
## 6.2.27 TM2\_5MHZ\_HCH\_RB1#24



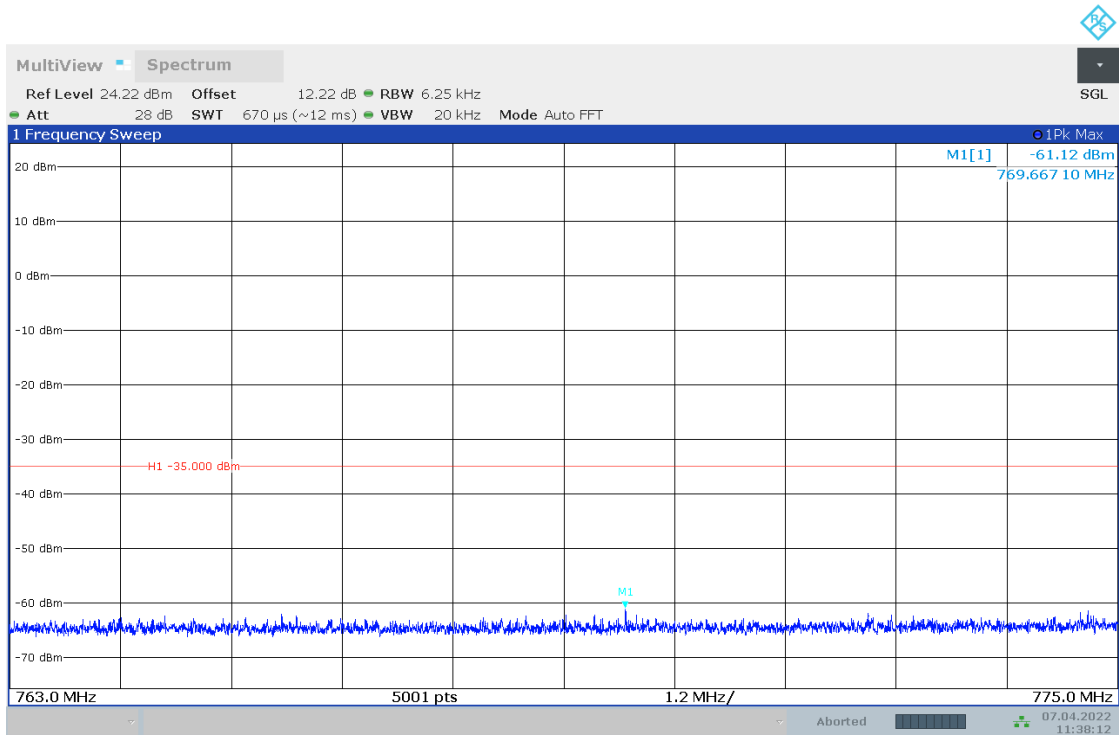
11:36:40 07.04.2022



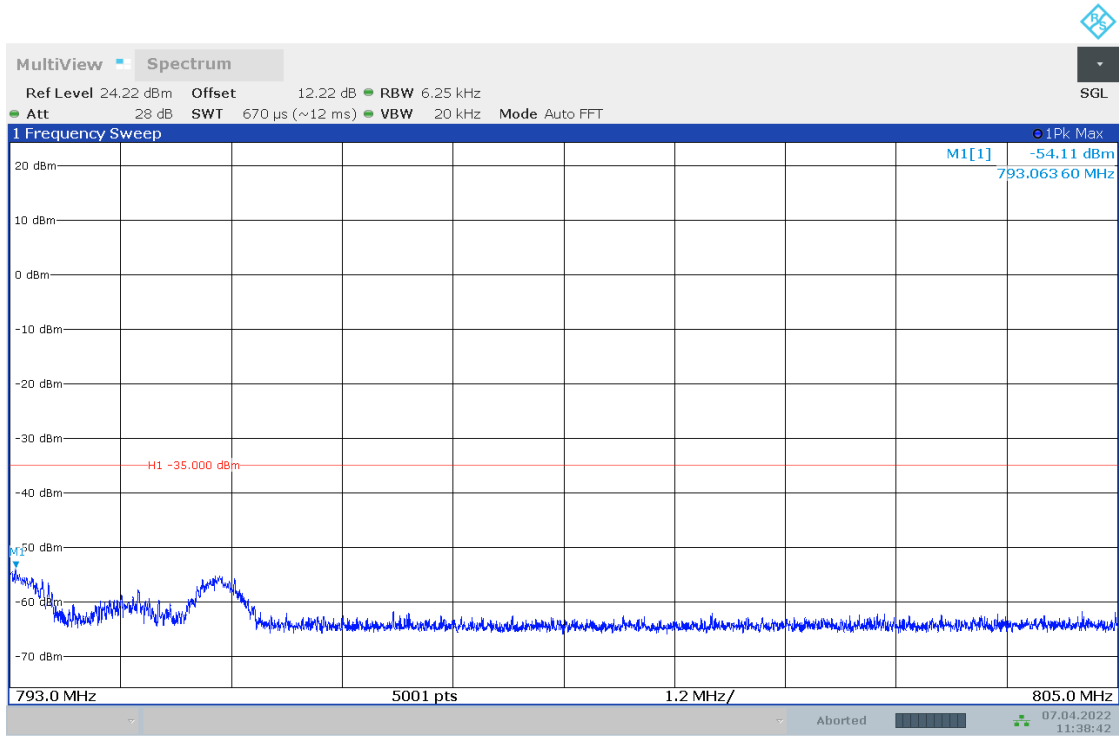
11:37:10 07.04.2022



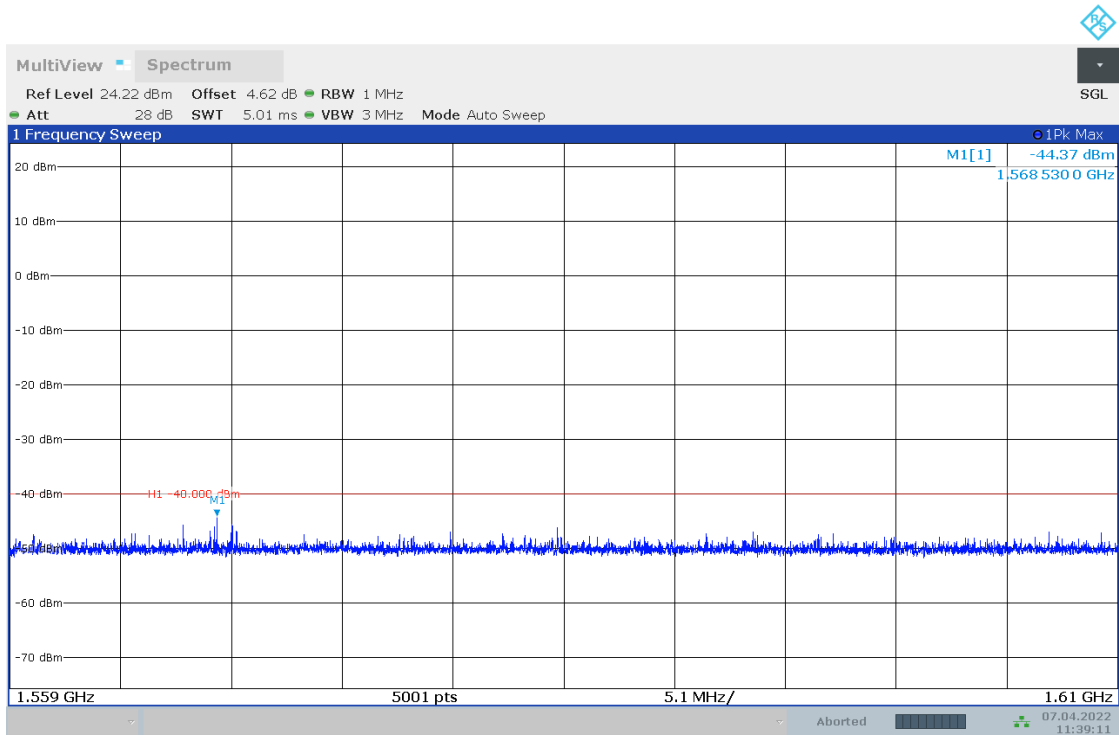
11:37:44 07.04.2022



11:38:13 07.04.2022

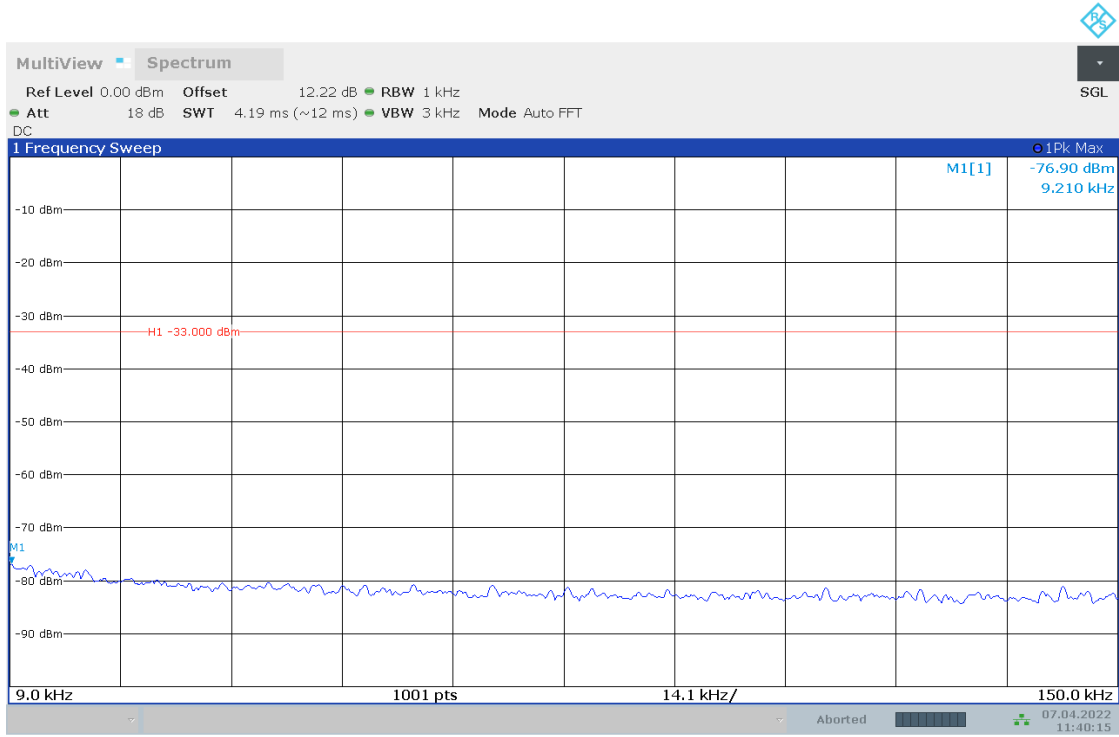


11:38:43 07.04.2022

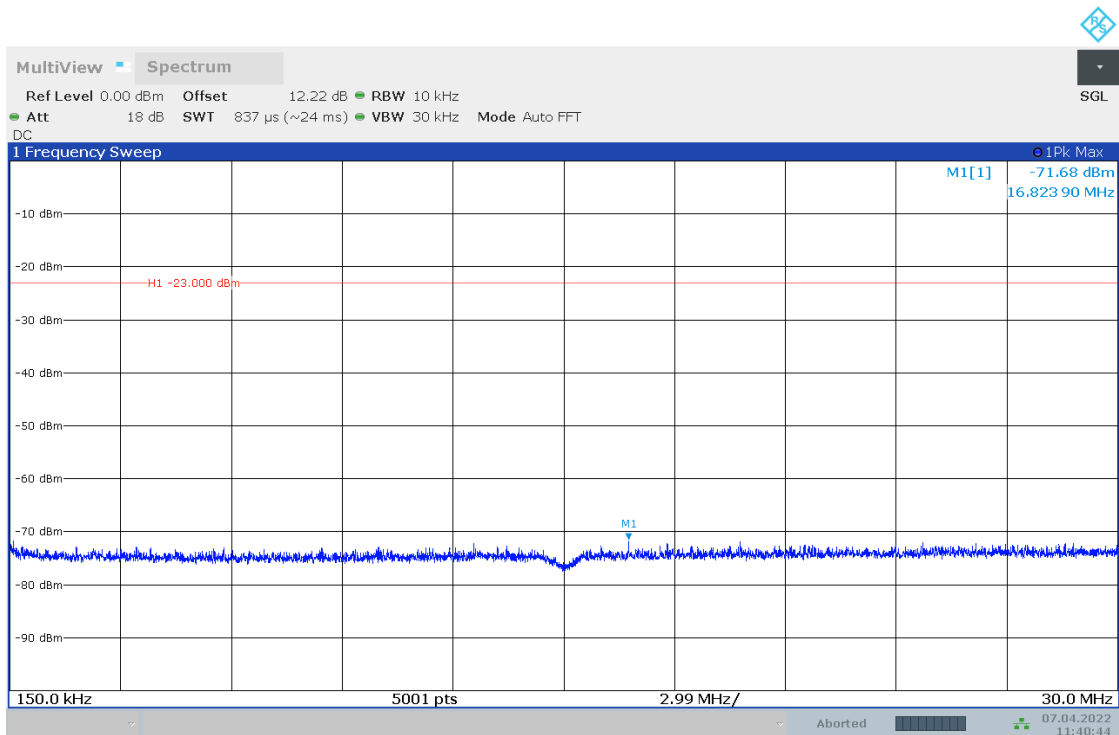


11:39:12 07.04.2022

## 6.2.28 TM2\_10MHZ\_LCH\_RB50#0

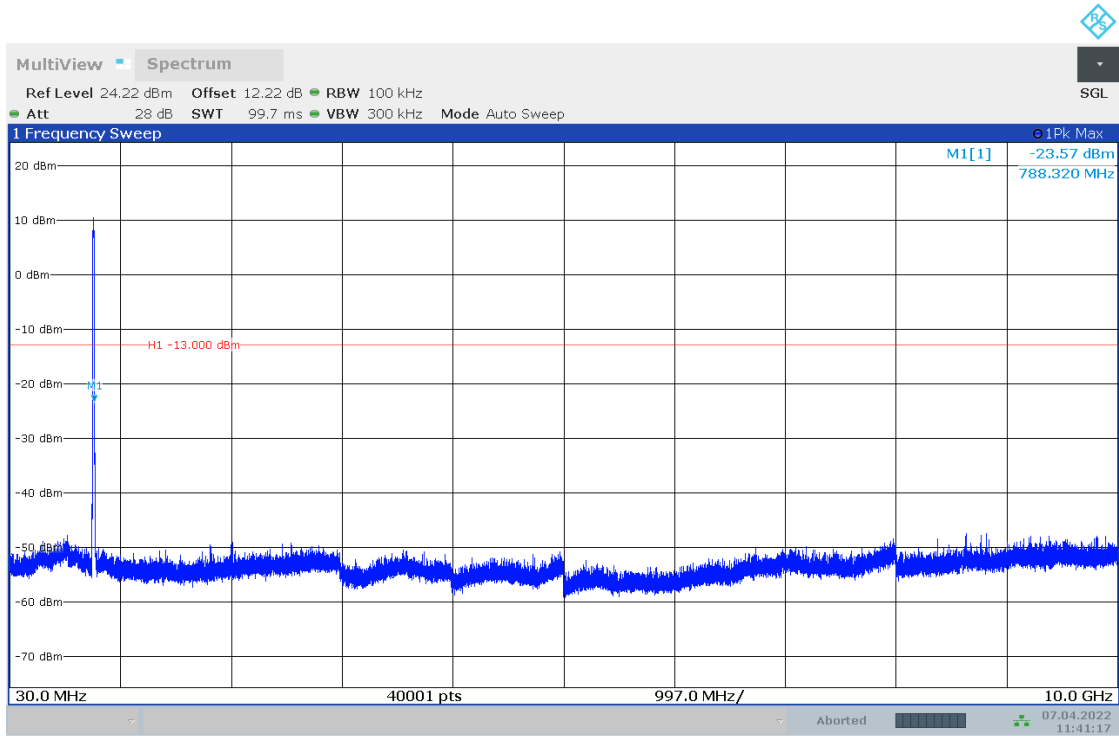


11:40:16 07.04.2022

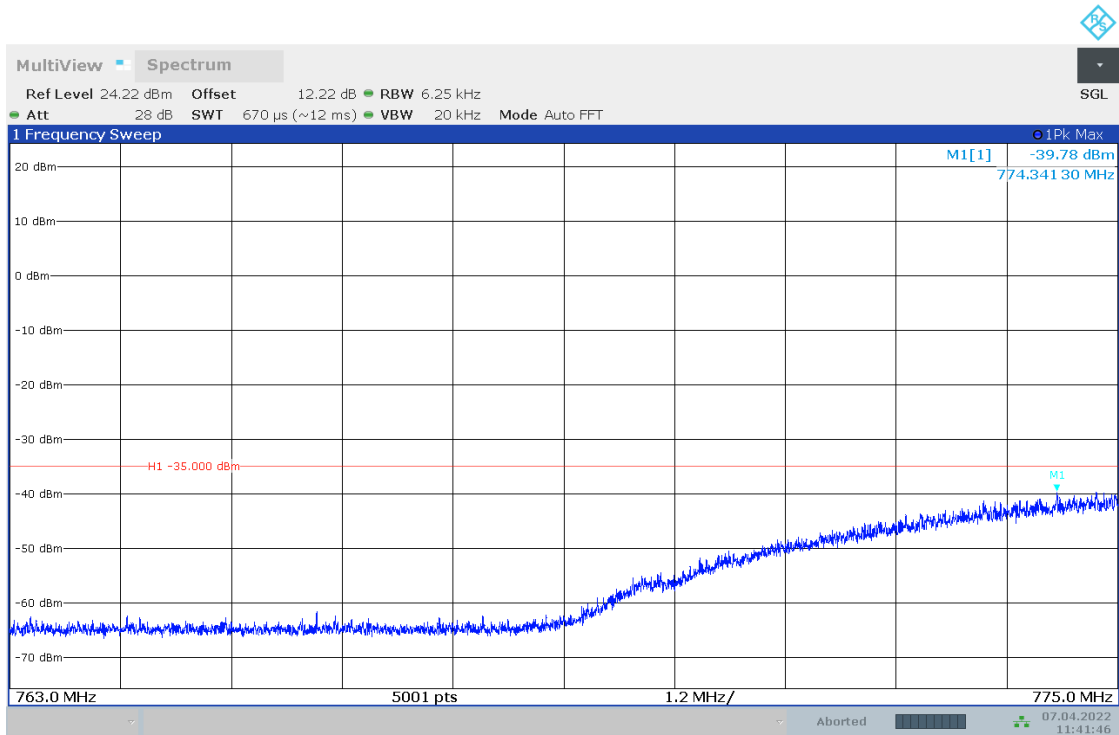


11:40:45 07.04.2022

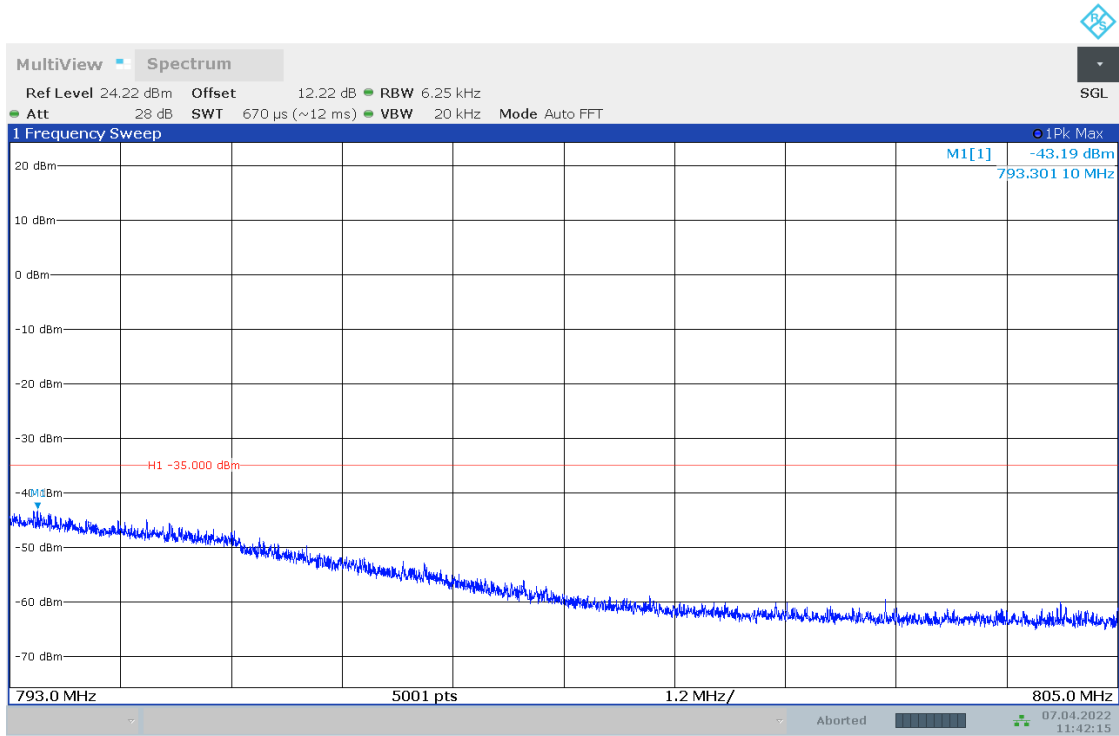




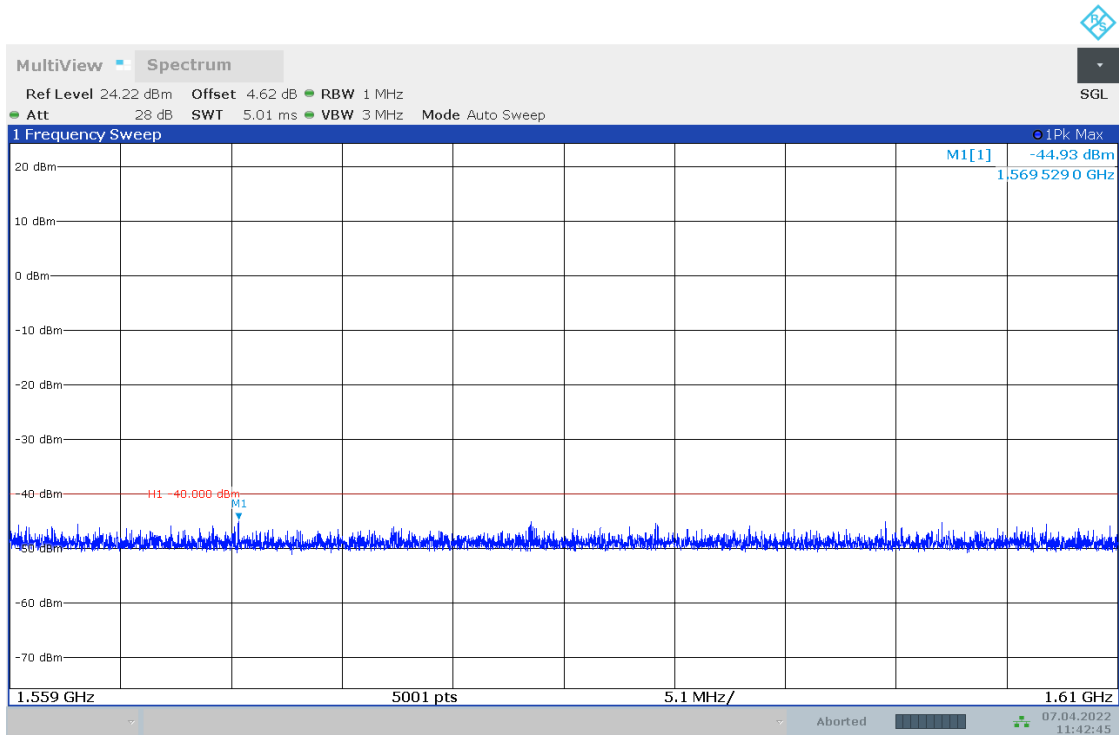
11:41:17 07.04.2022



11:41:47 07.04.2022

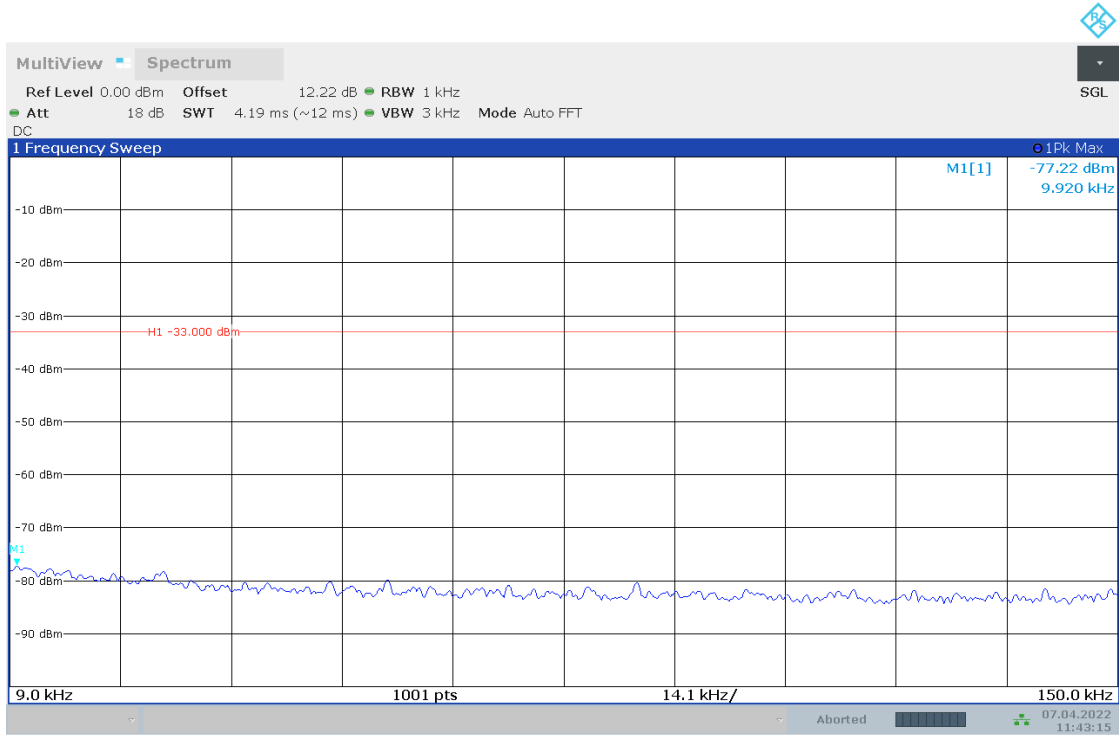


11:42:16 07.04.2022

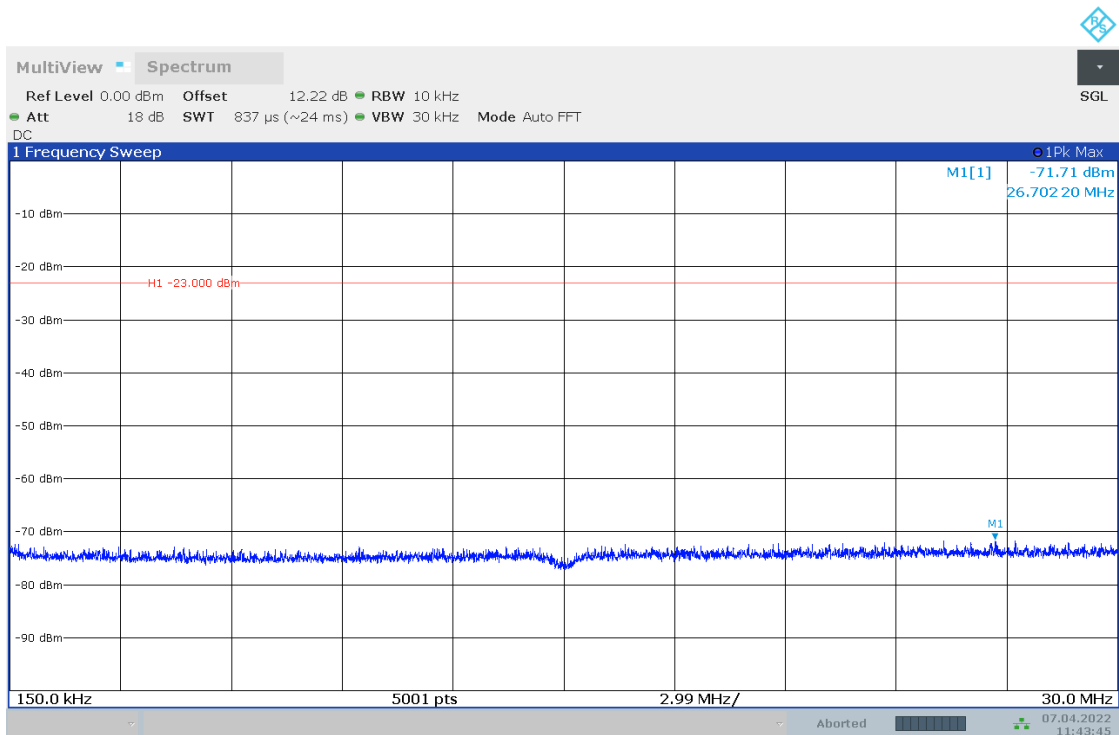


11:42:45 07.04.2022

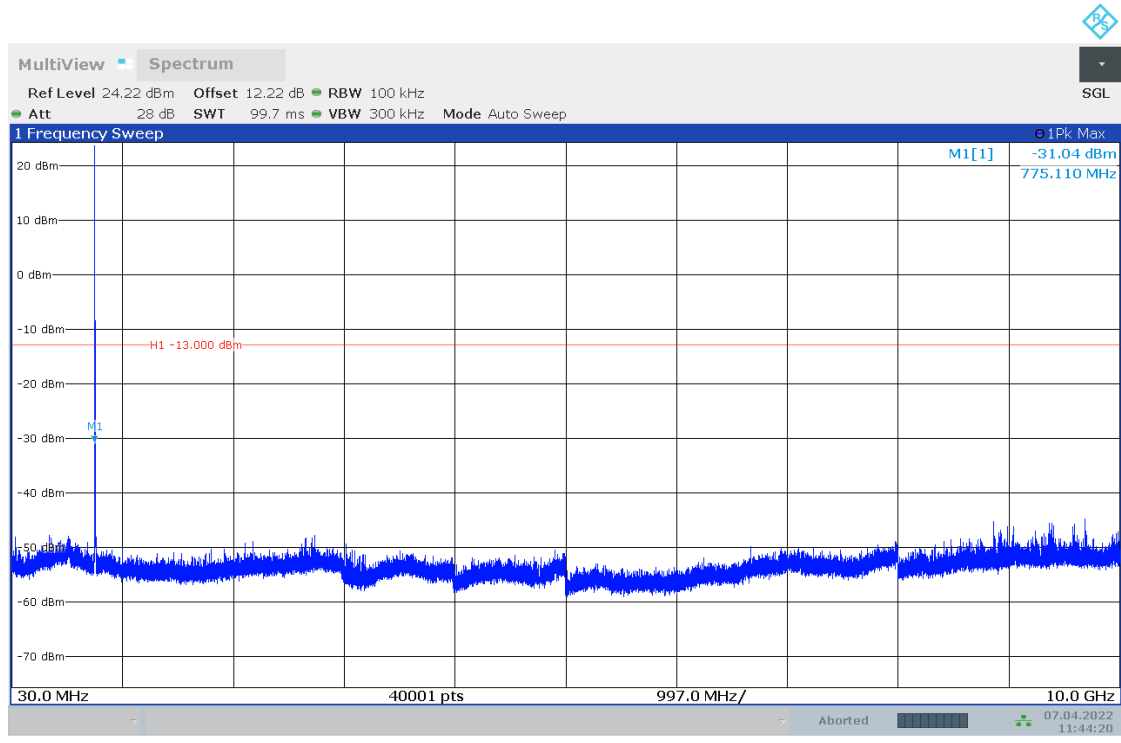
## 6.2.29 TM2\_10MHZ\_LCH\_RB1#0



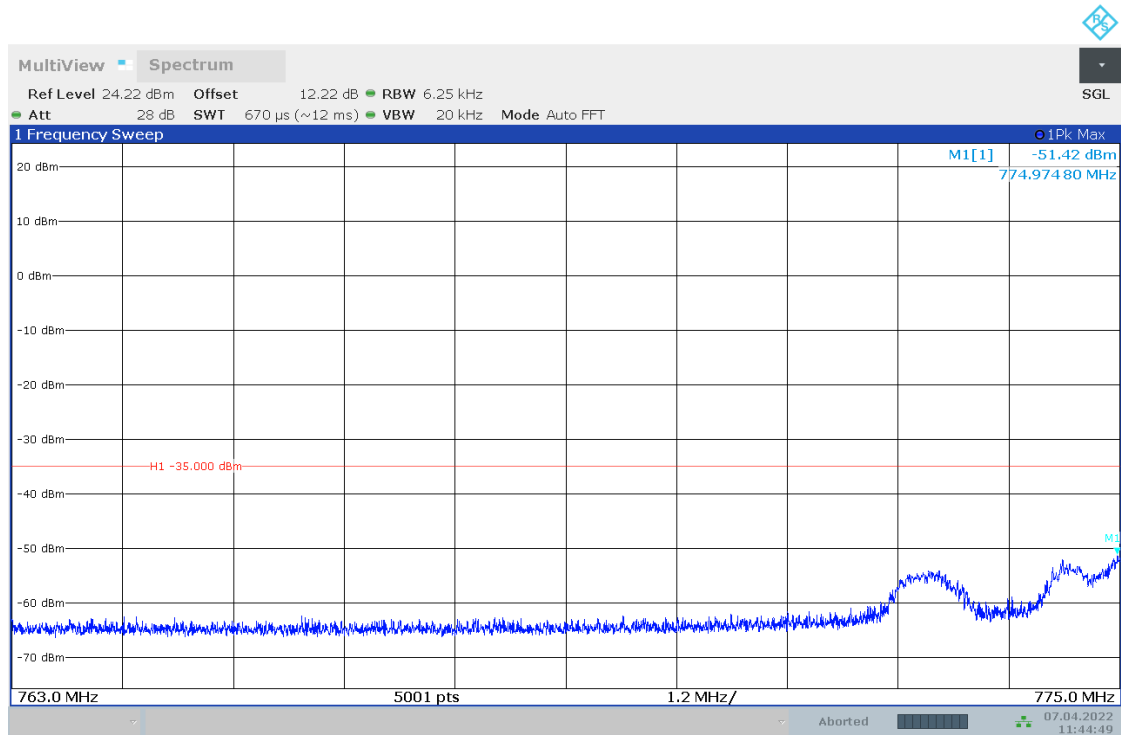
11:43:16 07.04.2022



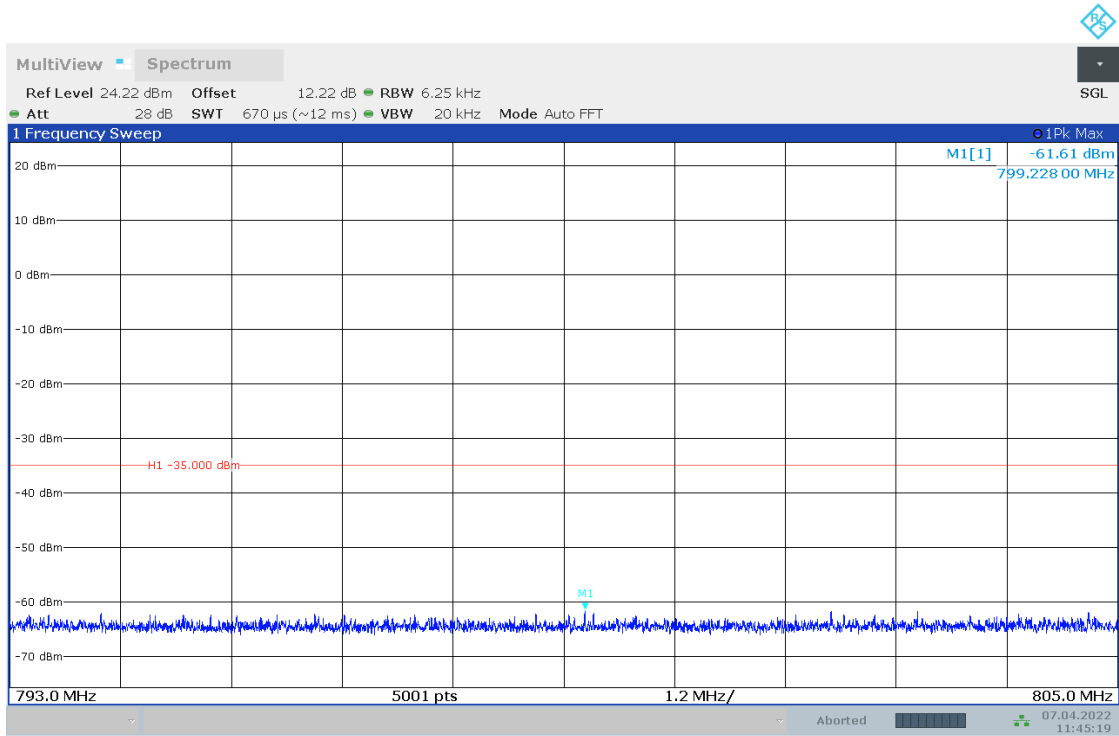
11:43:46 07.04.2022



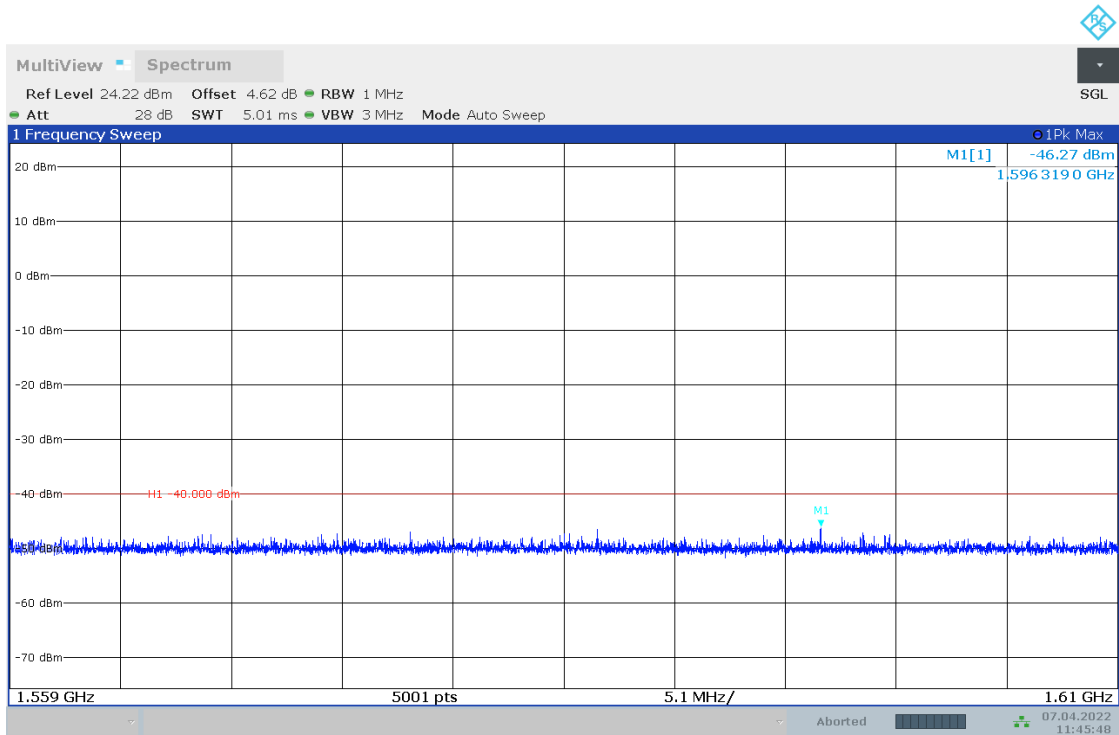
11:44:21 07.04.2022



11:44:50 07.04.2022

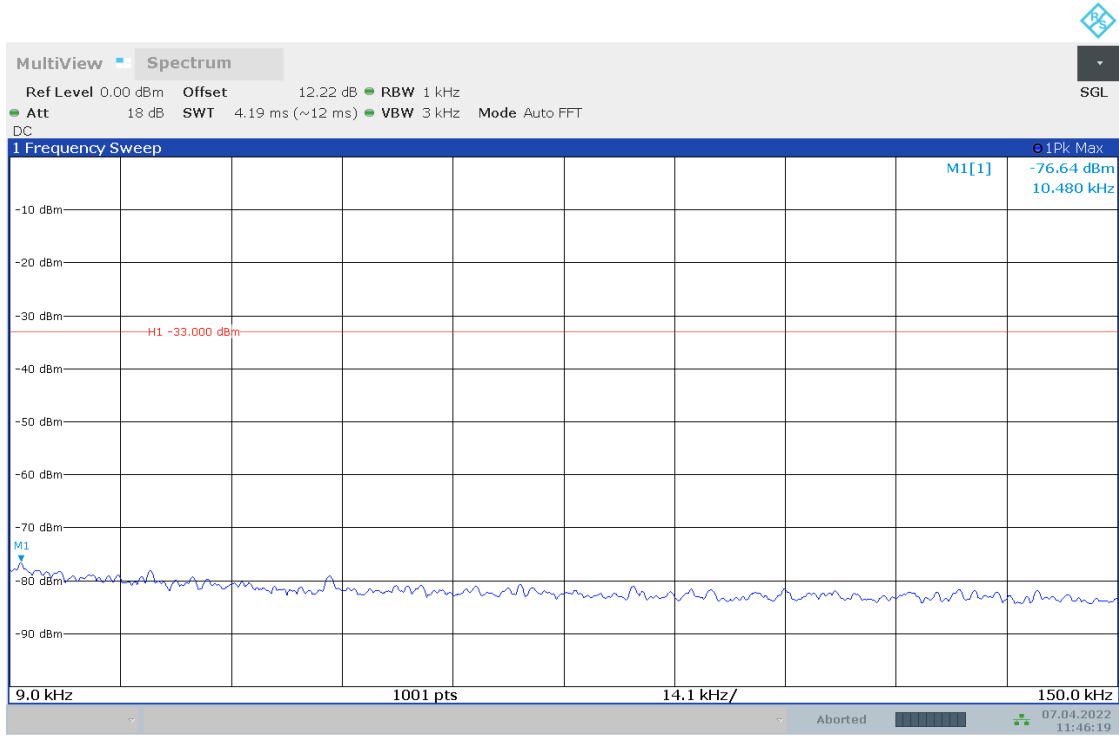


11:45:19 07.04.2022

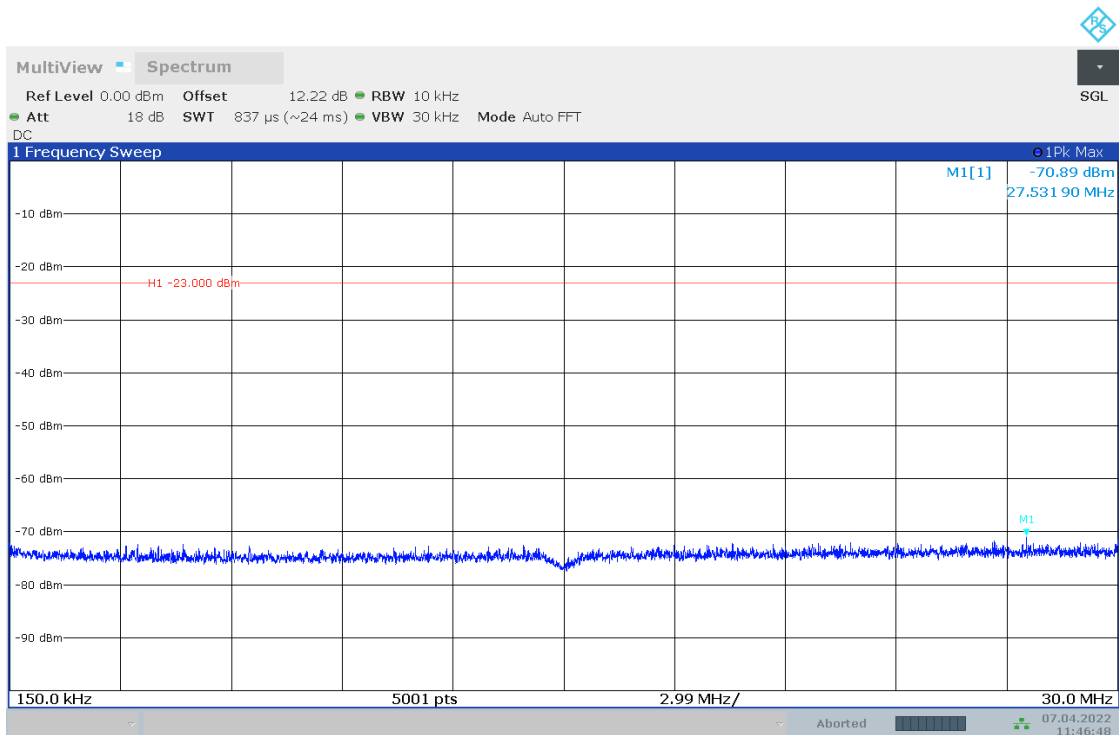


11:45:49 07.04.2022

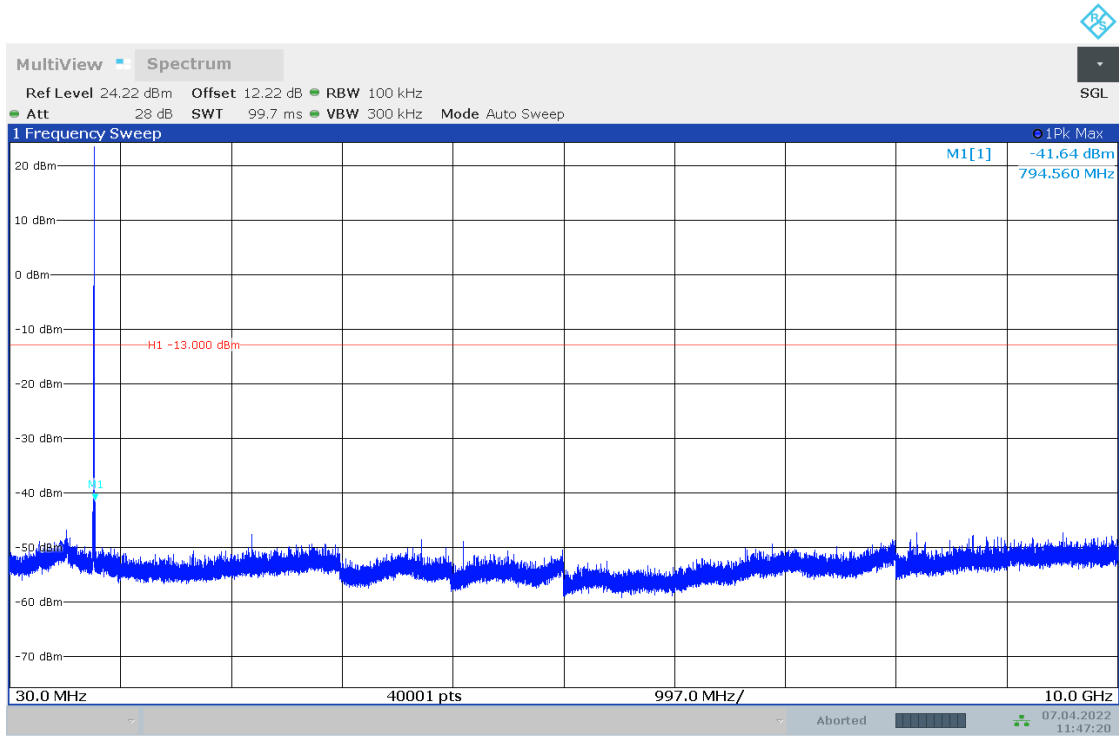
## 6.2.30 TM2\_10MHZ\_LCH\_RB1#49



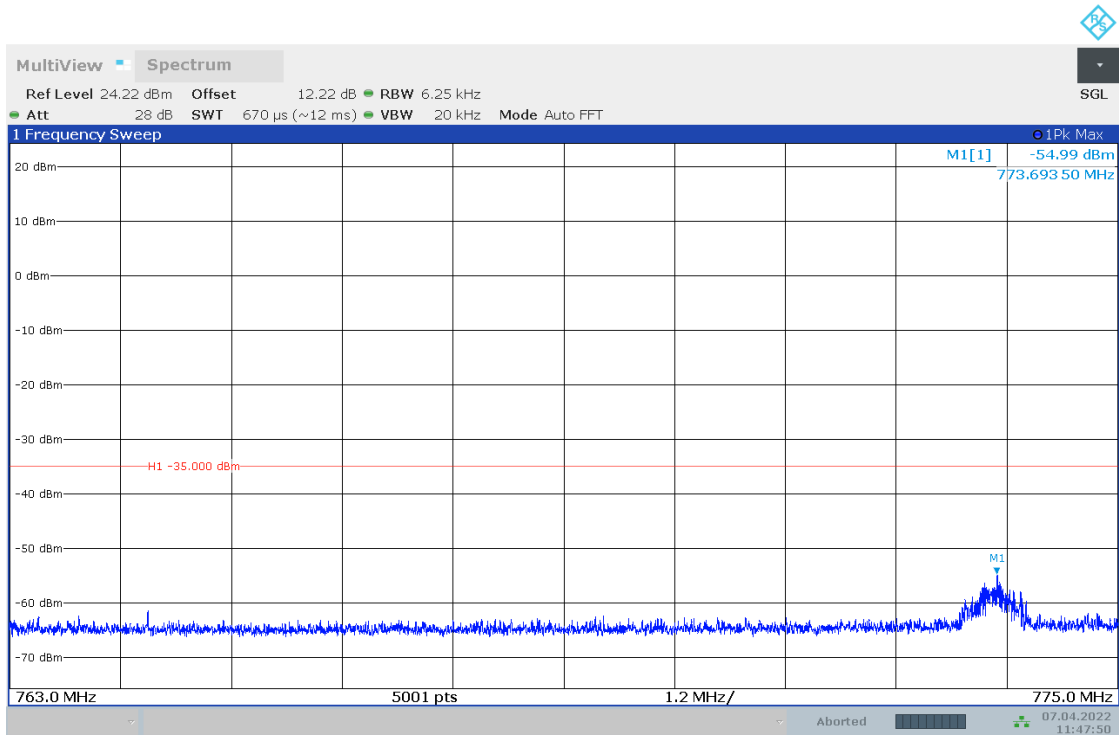
11:46:20 07.04.2022



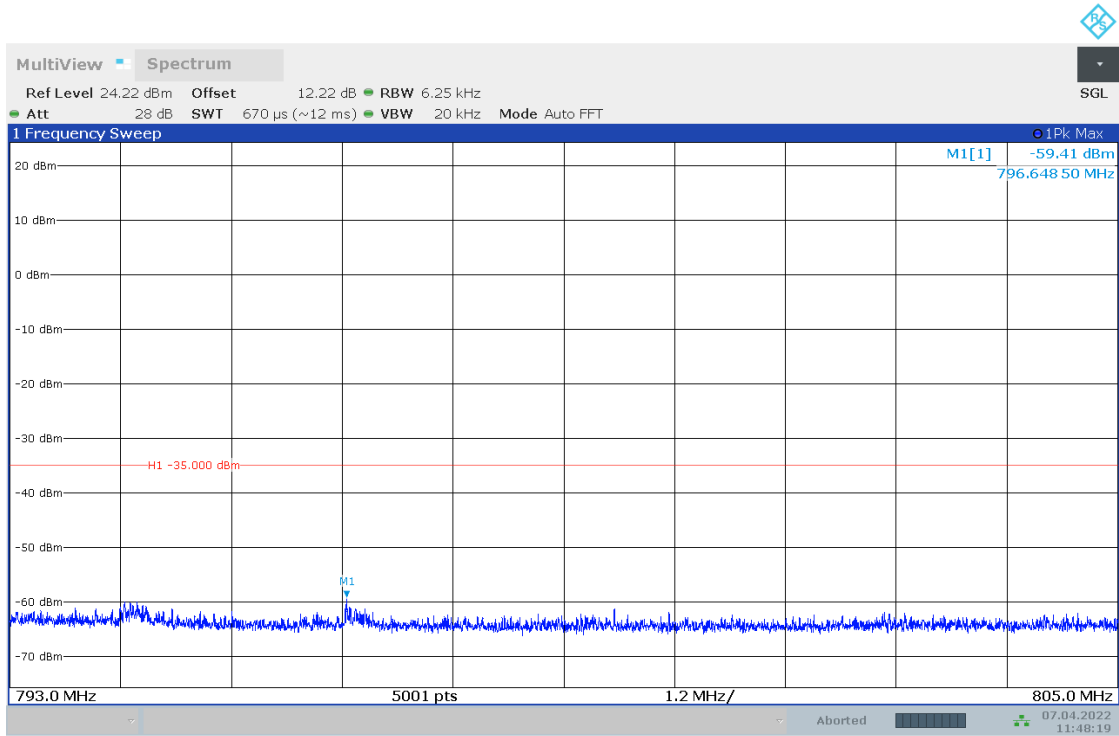
11:46:49 07.04.2022



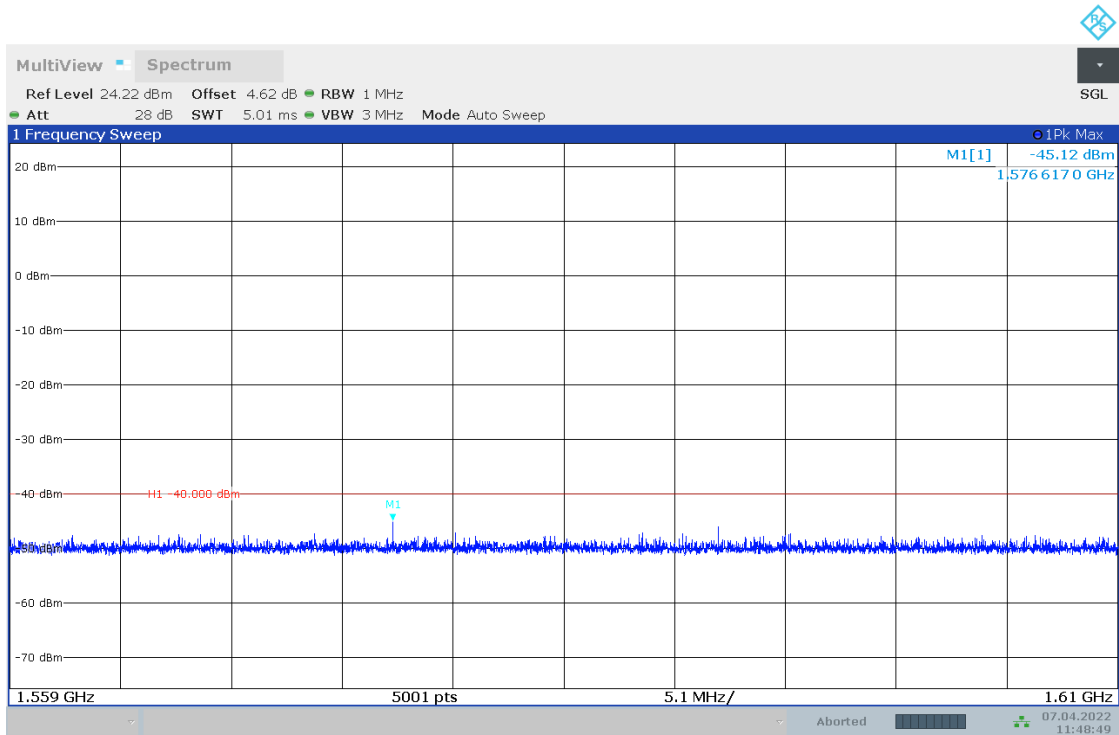
11:47:21 07.04.2022



11:47:50 07.04.2022



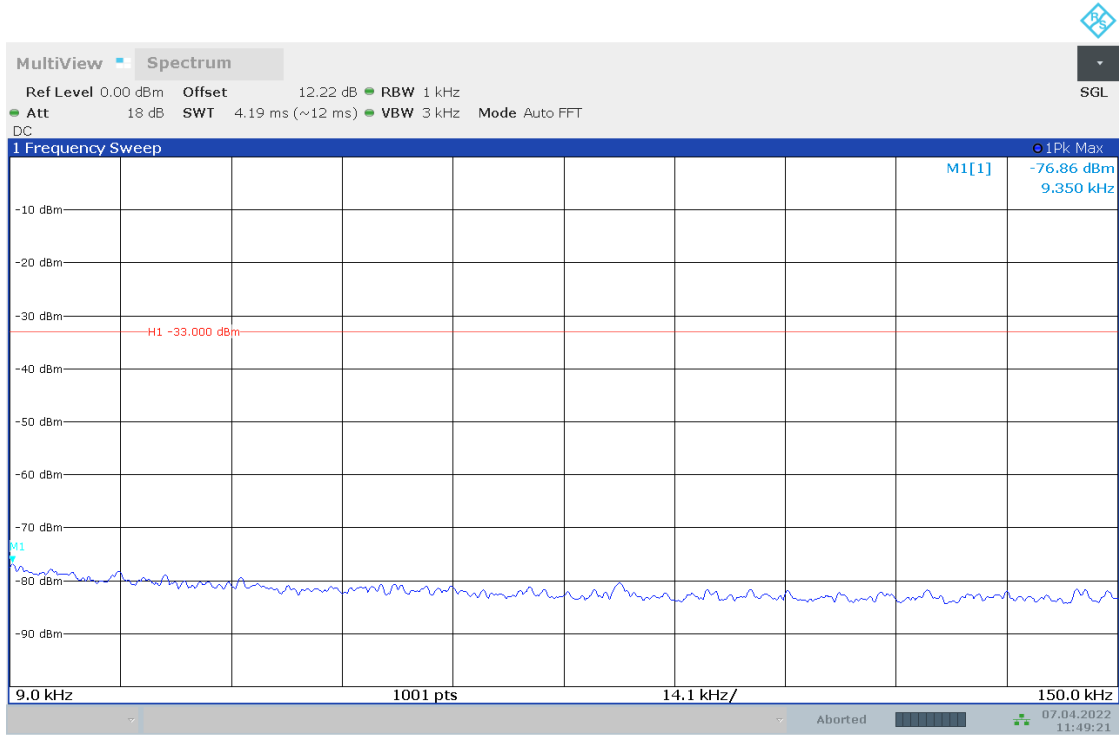
11:48:19 07.04.2022



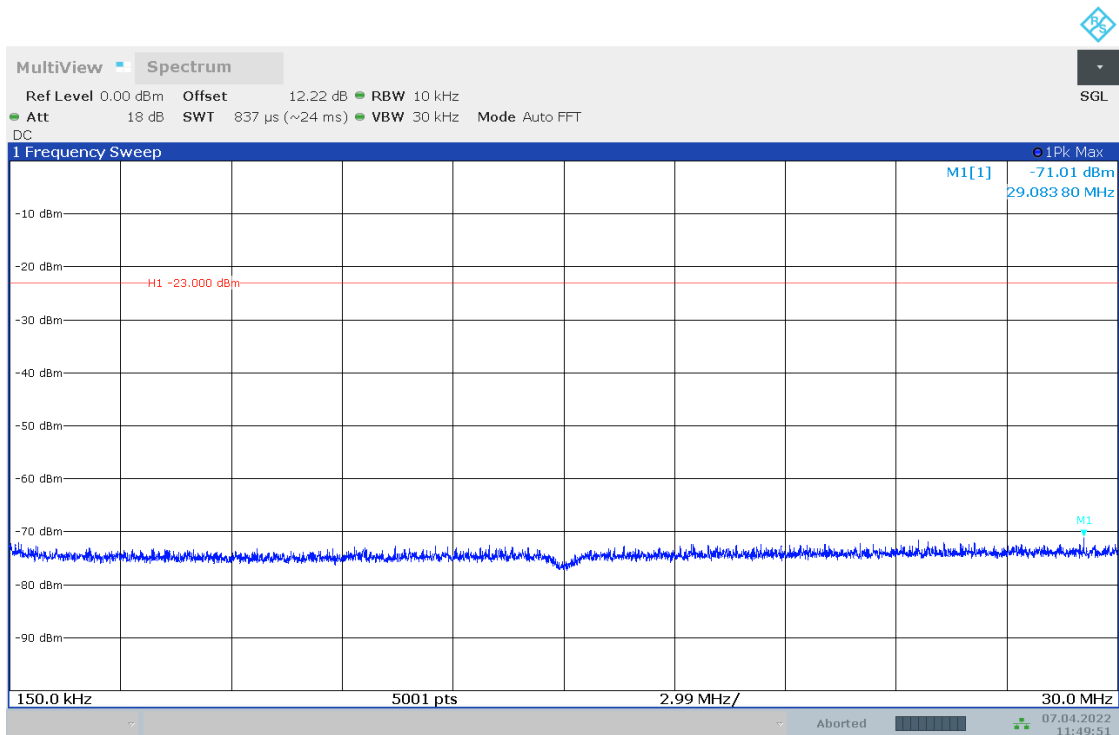
11:48:49 07.04.2022



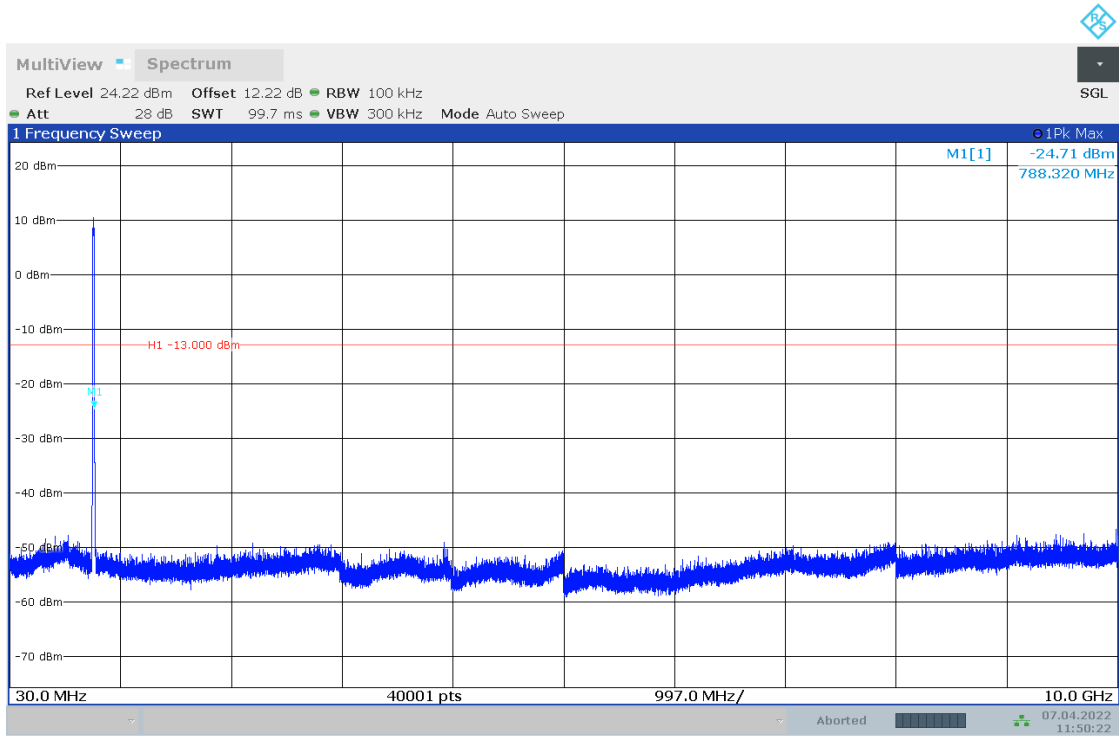
## 6.2.31 TM2\_10MHZ\_MCH\_RB50#0



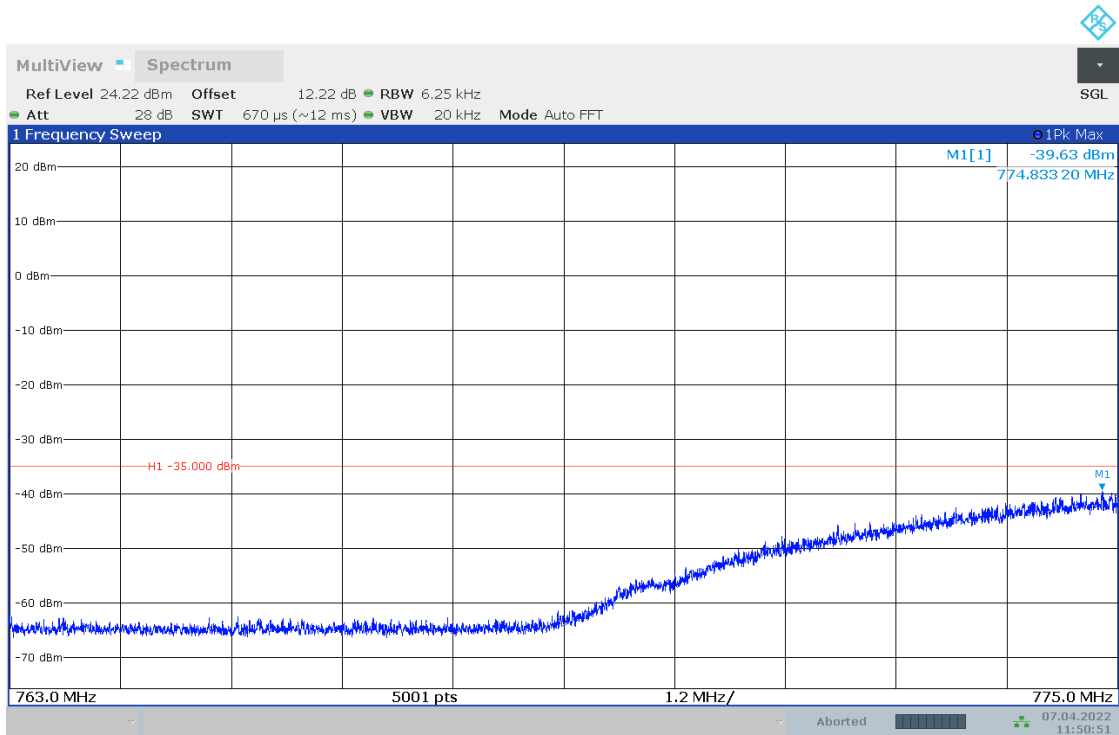
11:49:21 07.04.2022



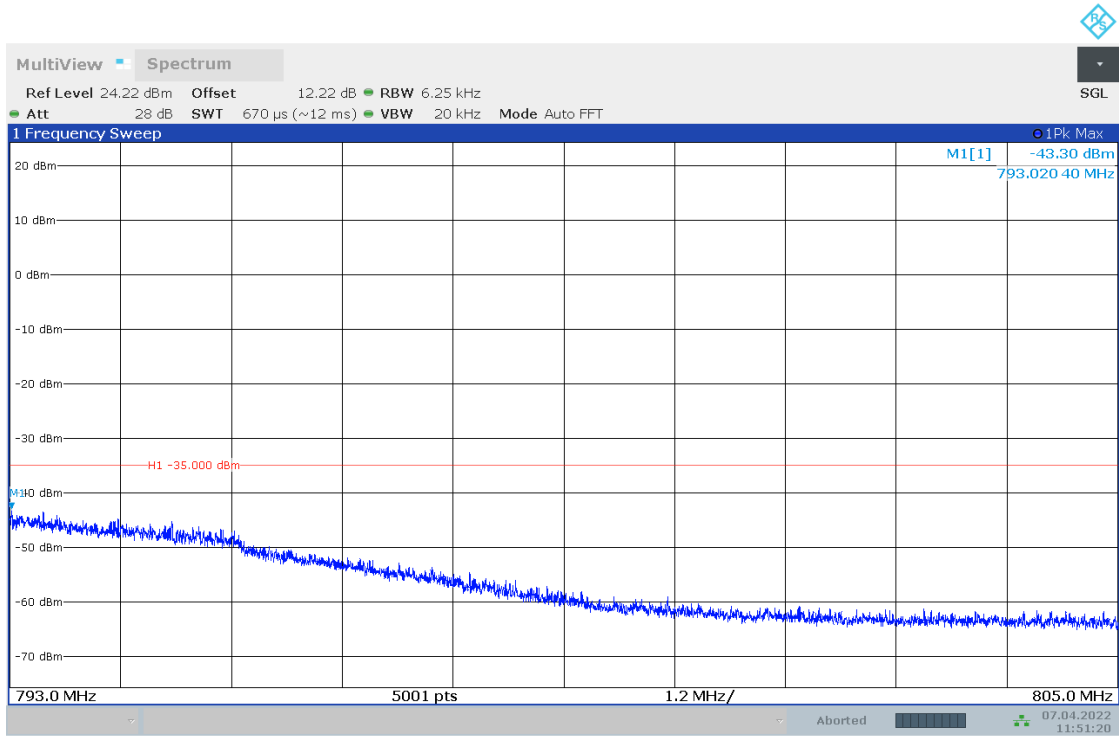
11:49:51 07.04.2022



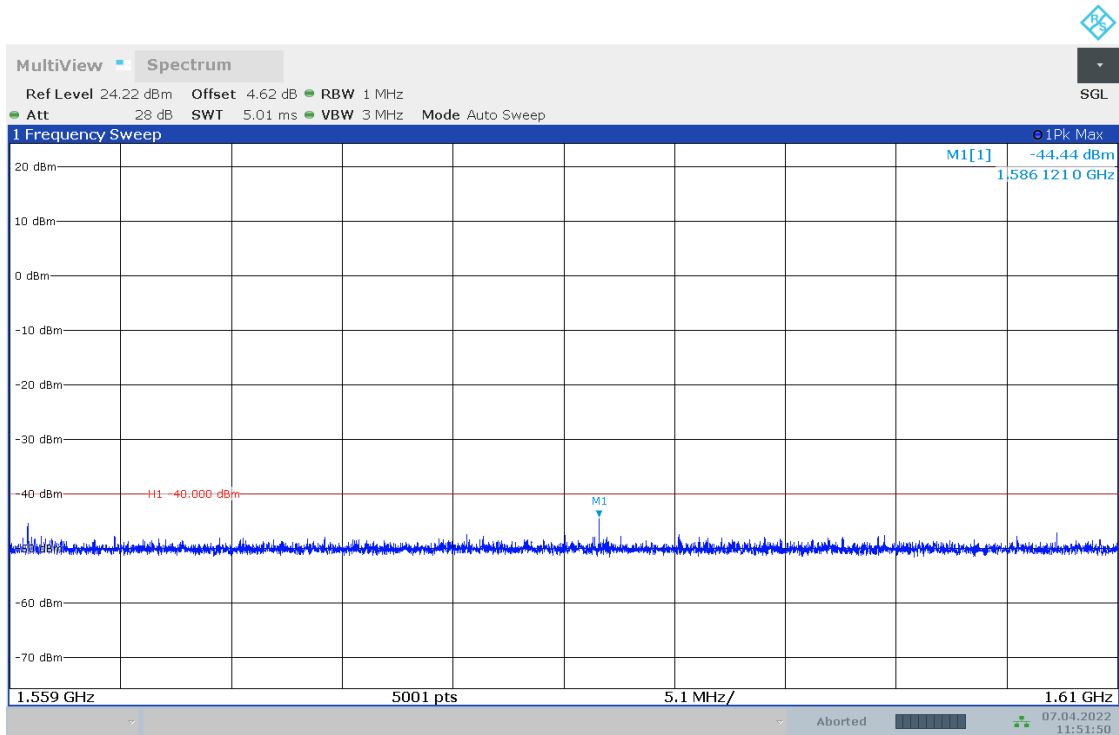
11:50:22 07.04.2022



11:50:51 07.04.2022

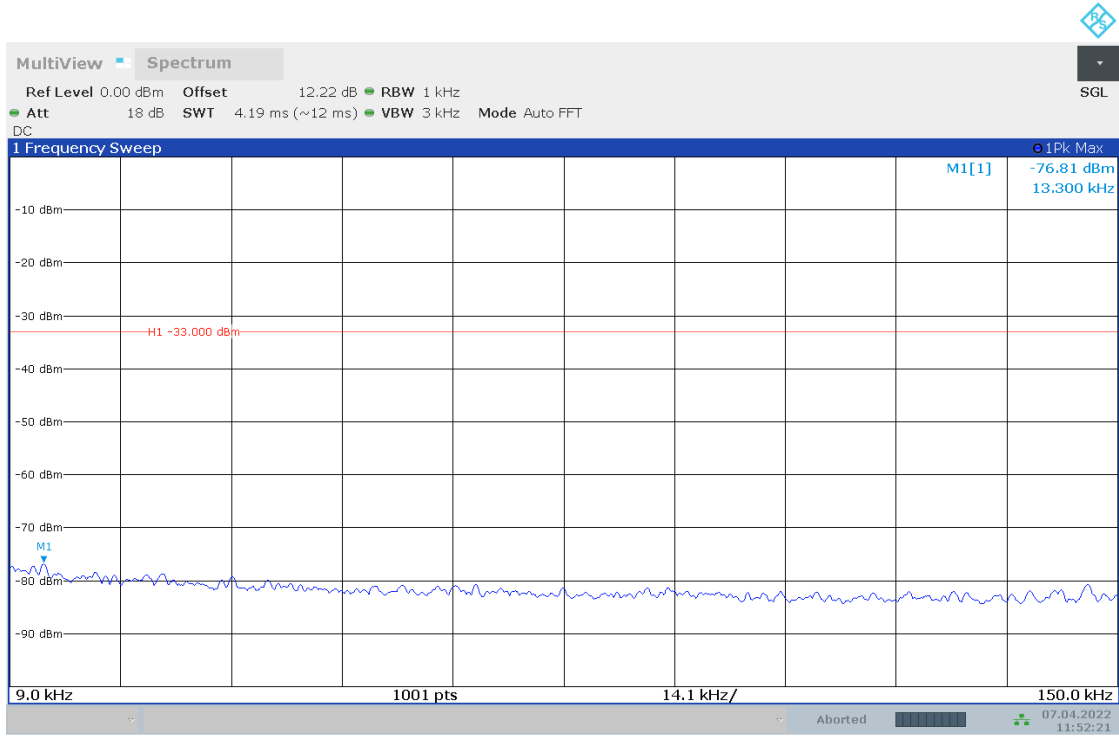


11:51:21 07.04.2022

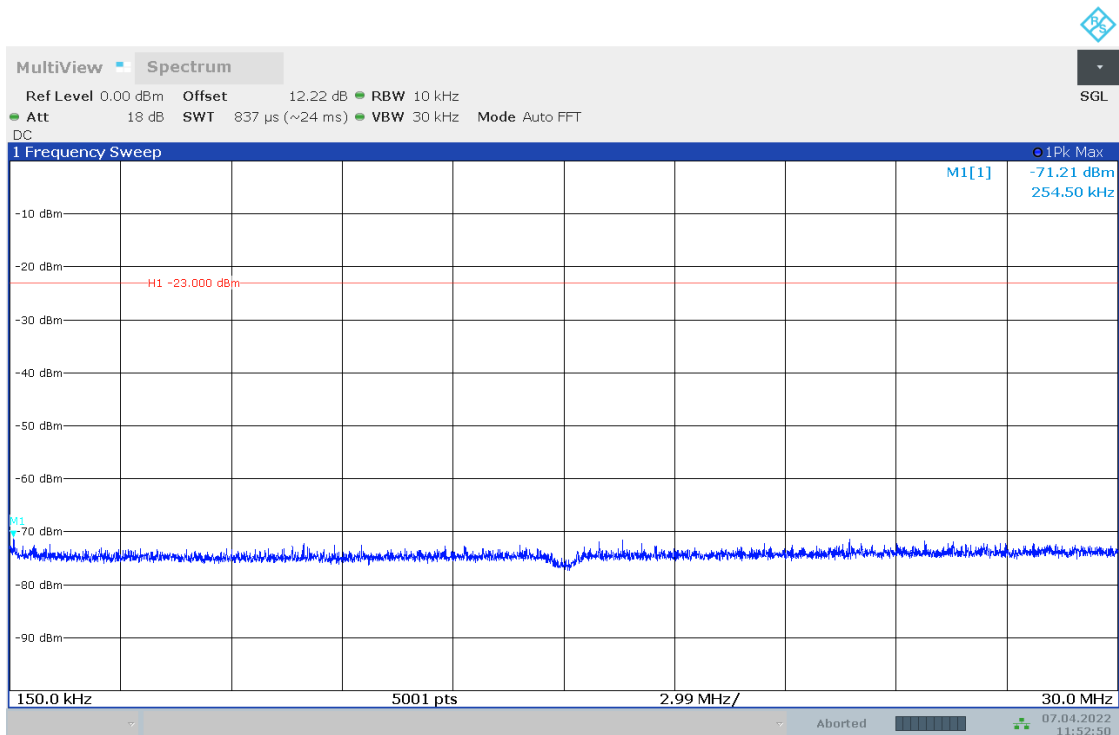


11:51:50 07.04.2022

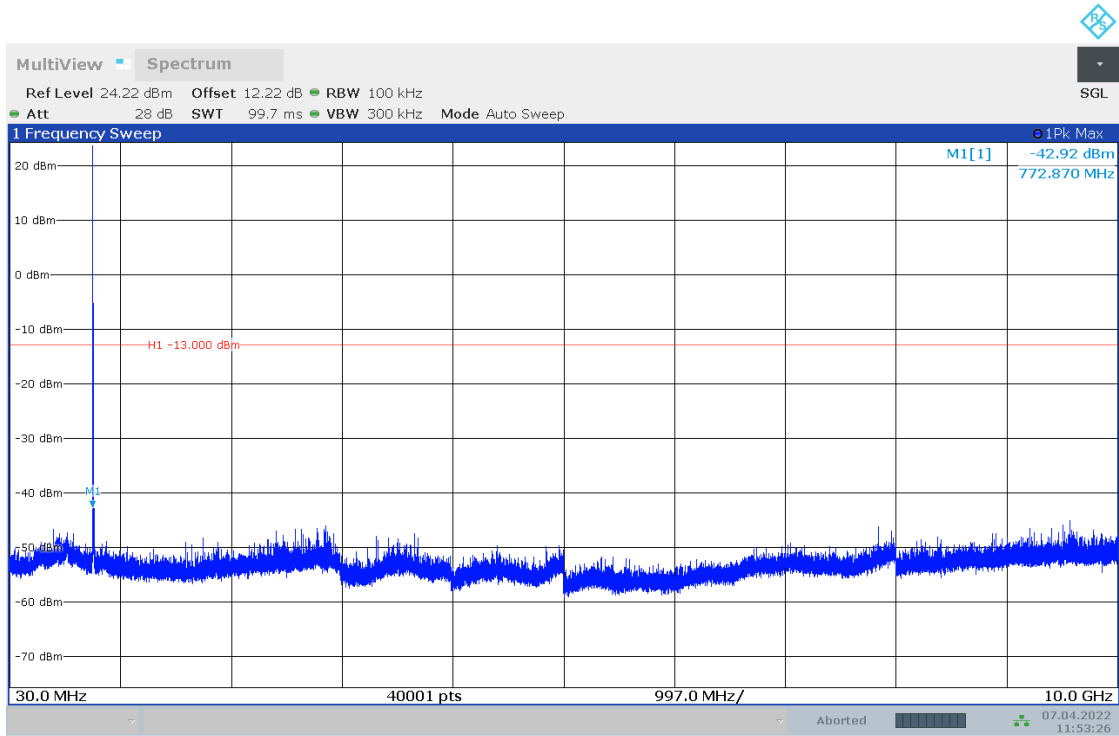
## 6.2.32 TM2\_10MHZ\_MCH\_RB1#0



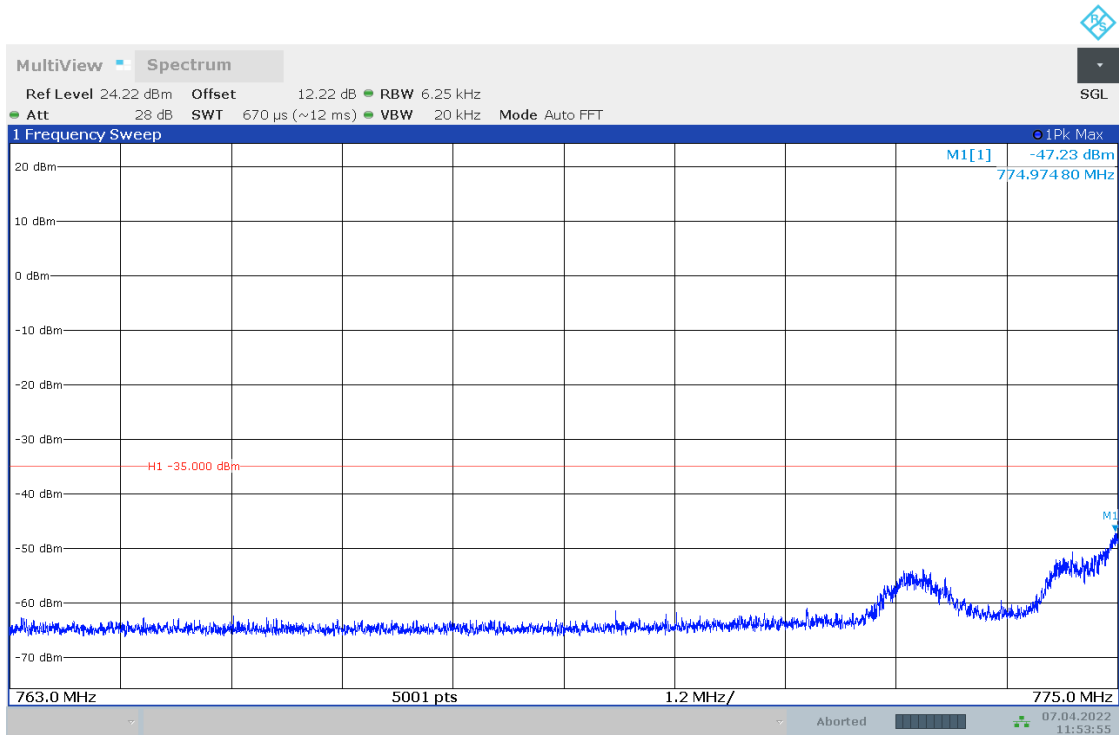
11:52:21 07.04.2022



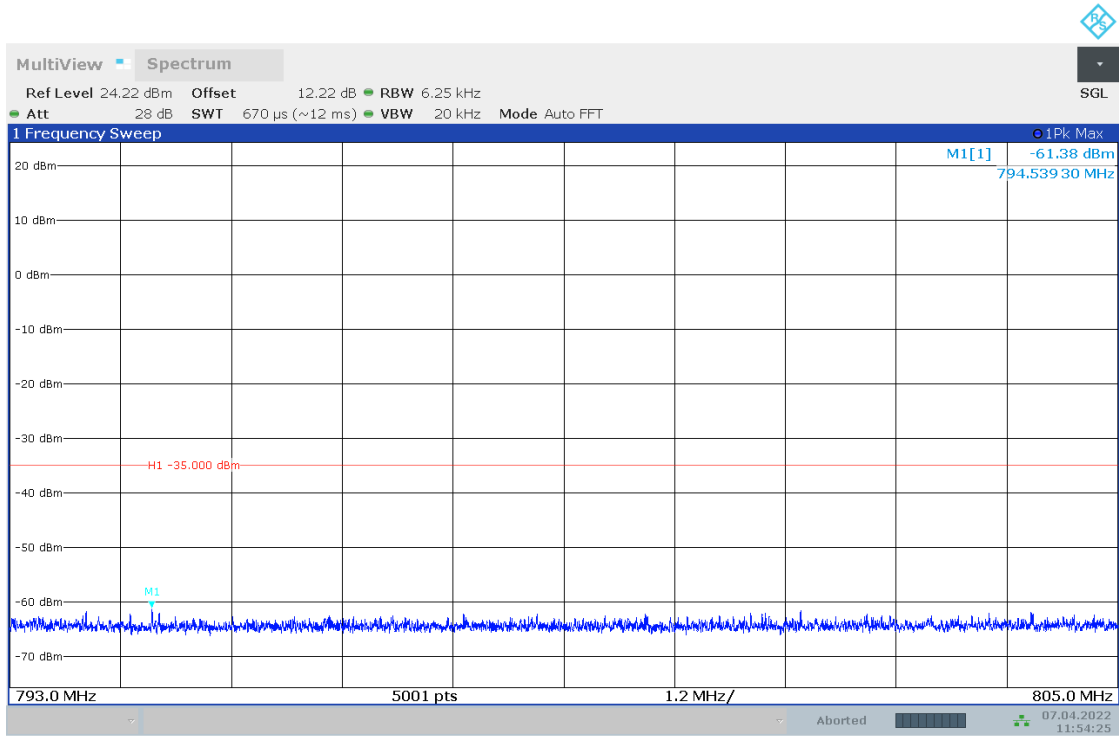
11:52:50 07.04.2022



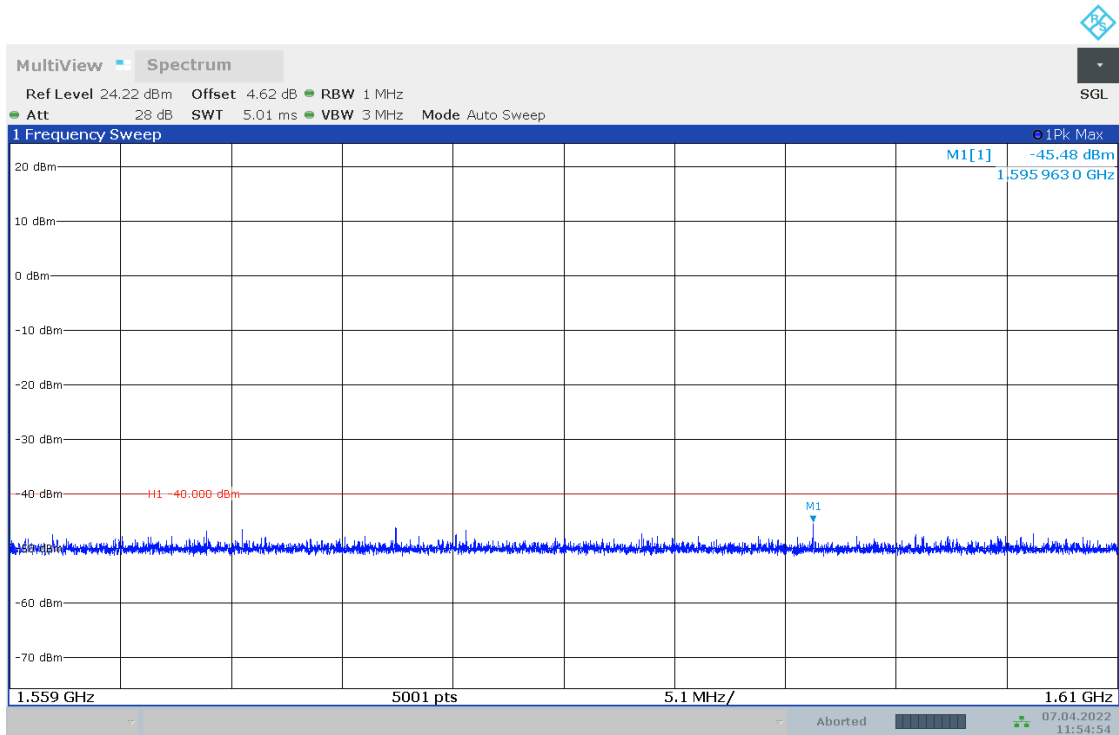
11:53:26 07.04.2022



11:53:56 07.04.2022

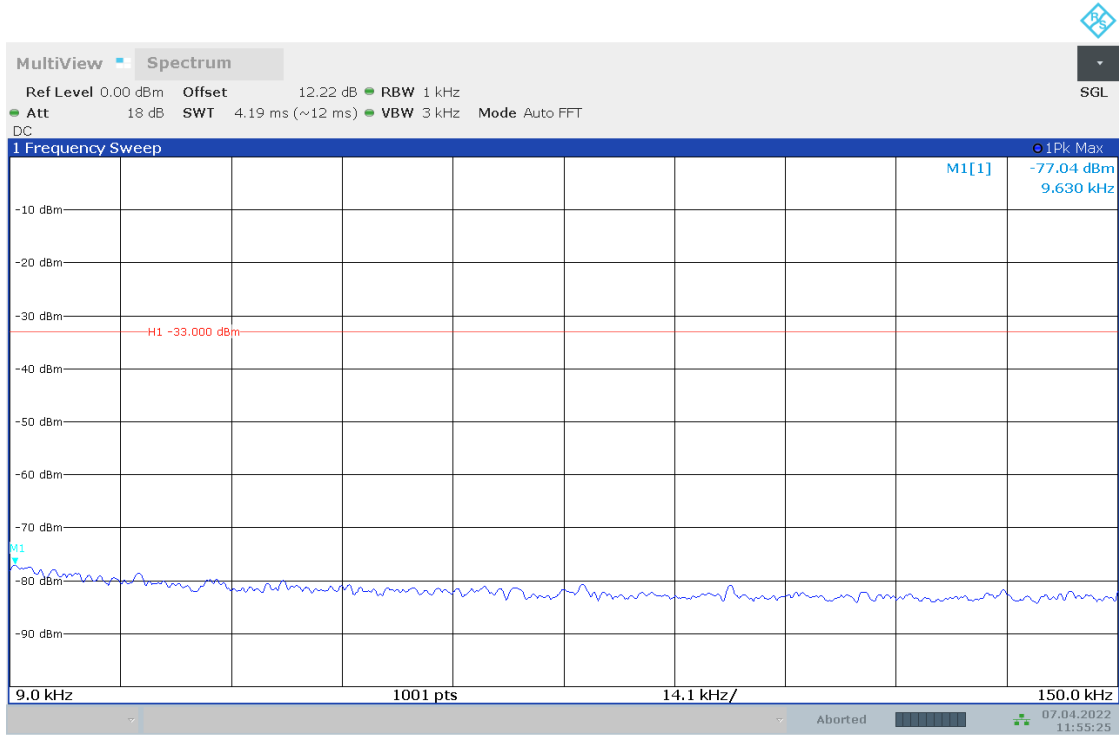


11:54:25 07.04.2022

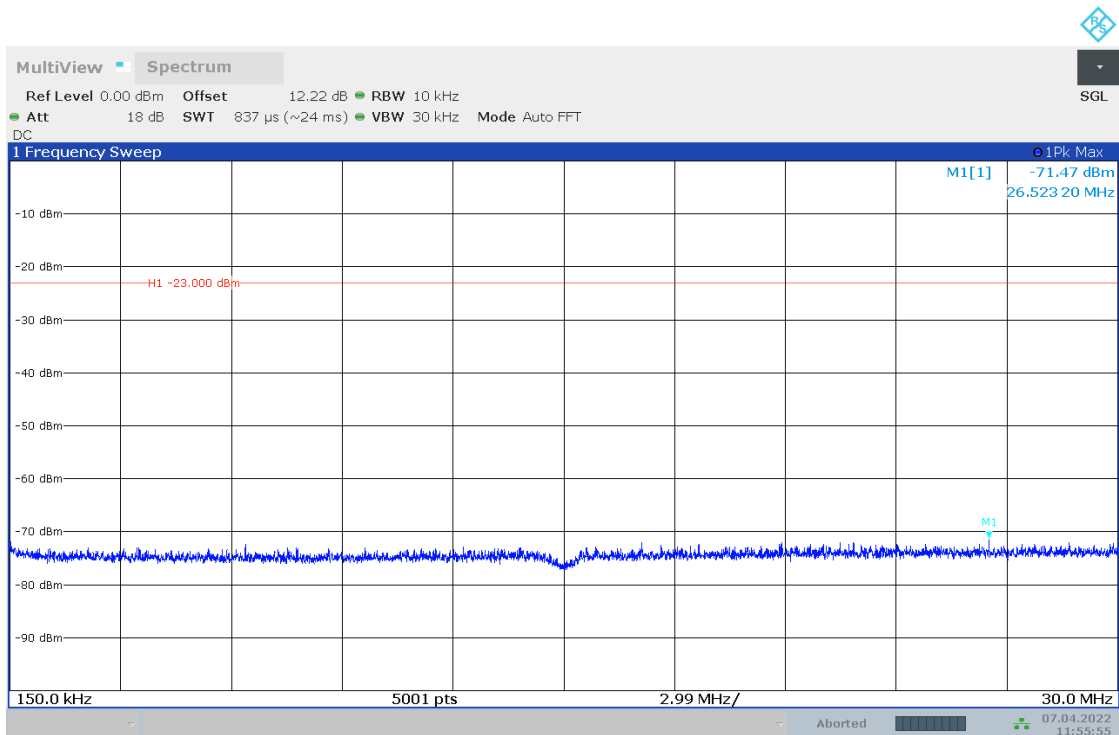


11:54:54 07.04.2022

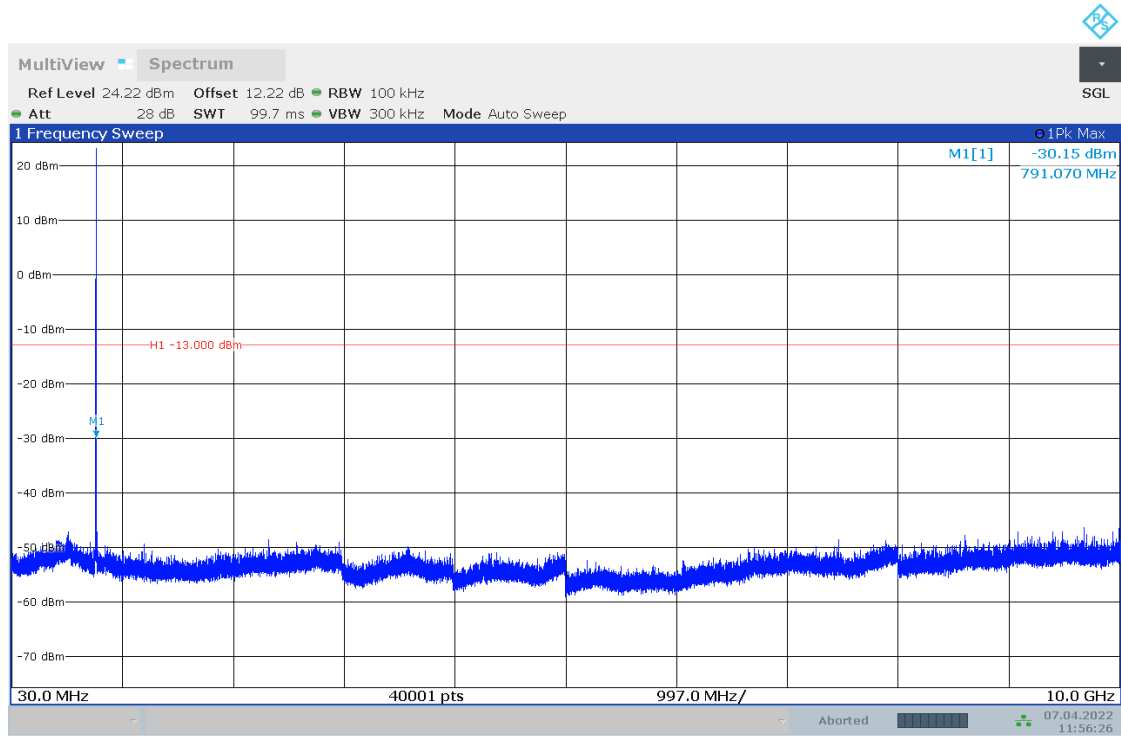
## 6.2.33 TM2\_10MHZ\_MCH\_RB1#49



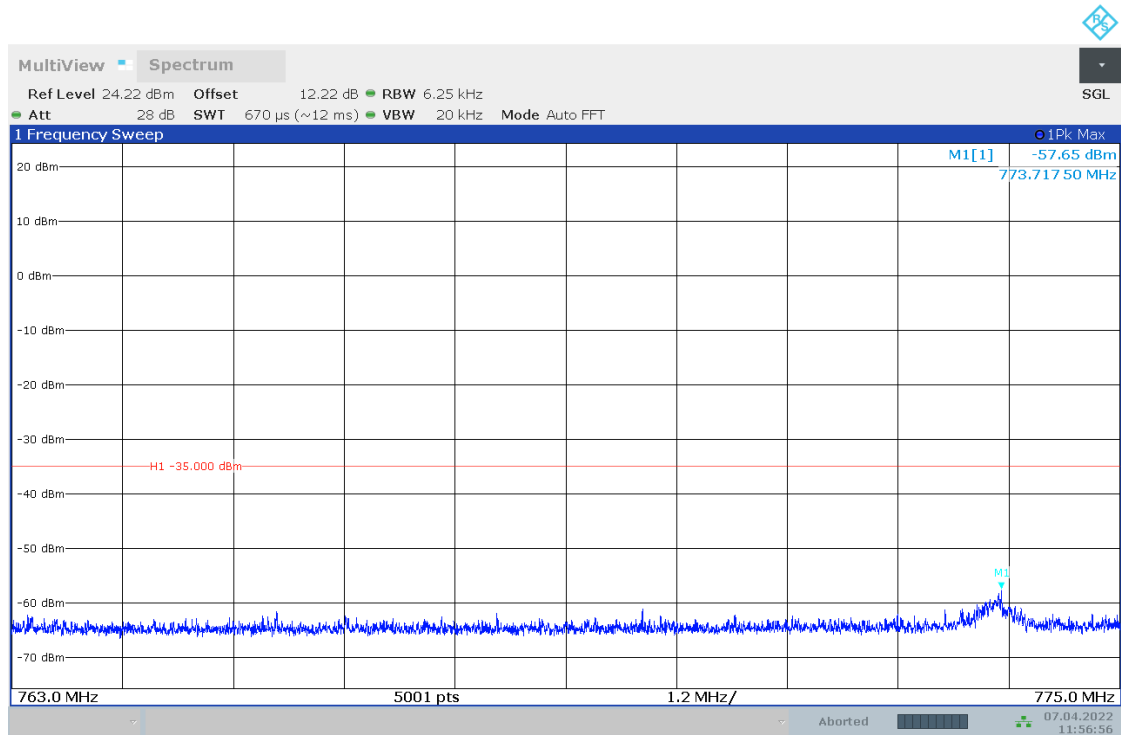
11:55:25 07.04.2022



11:55:55 07.04.2022

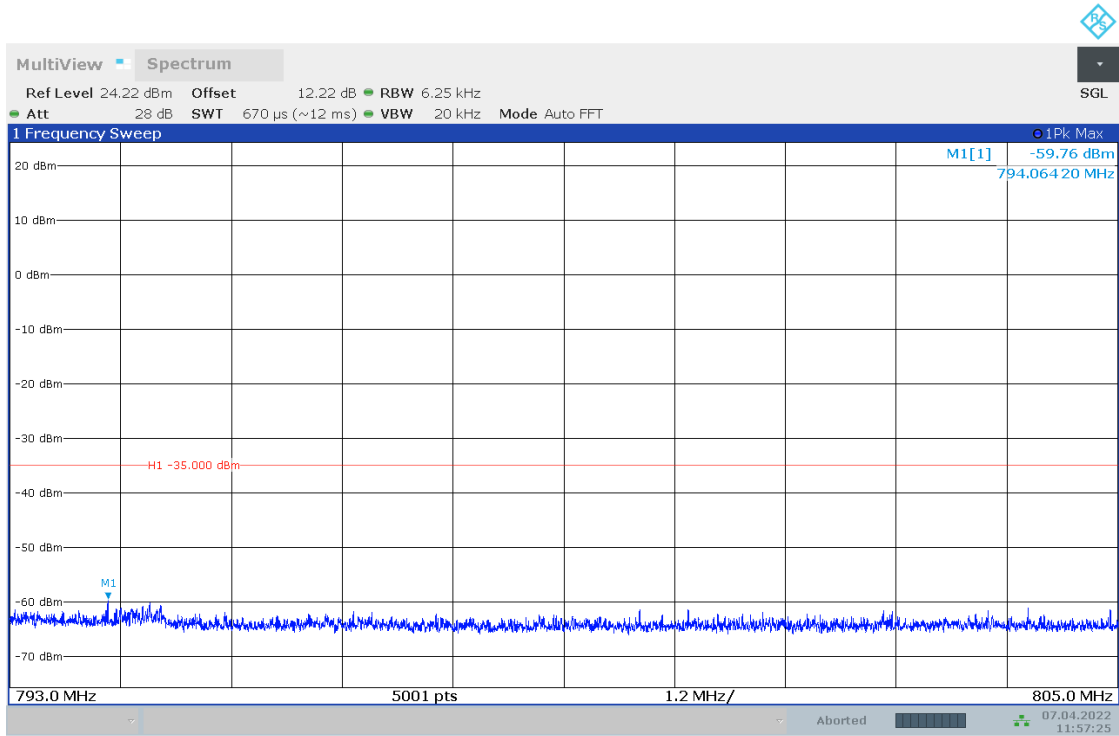


11:56:27 07.04.2022

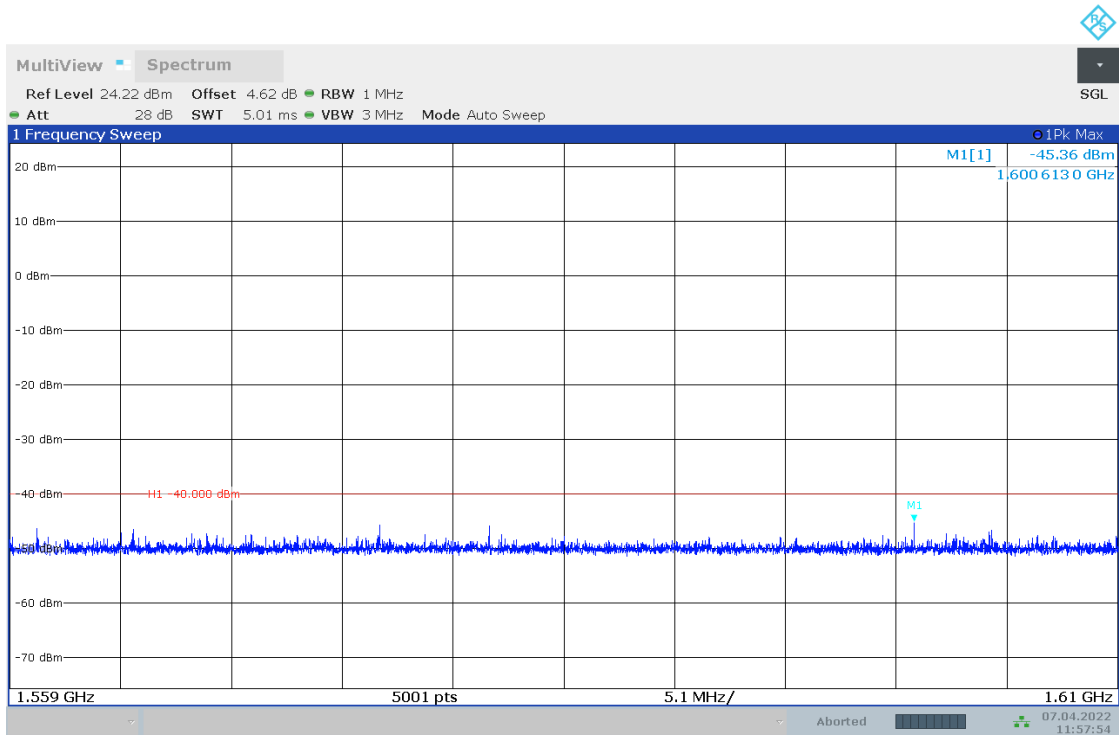


11:56:56 07.04.2022



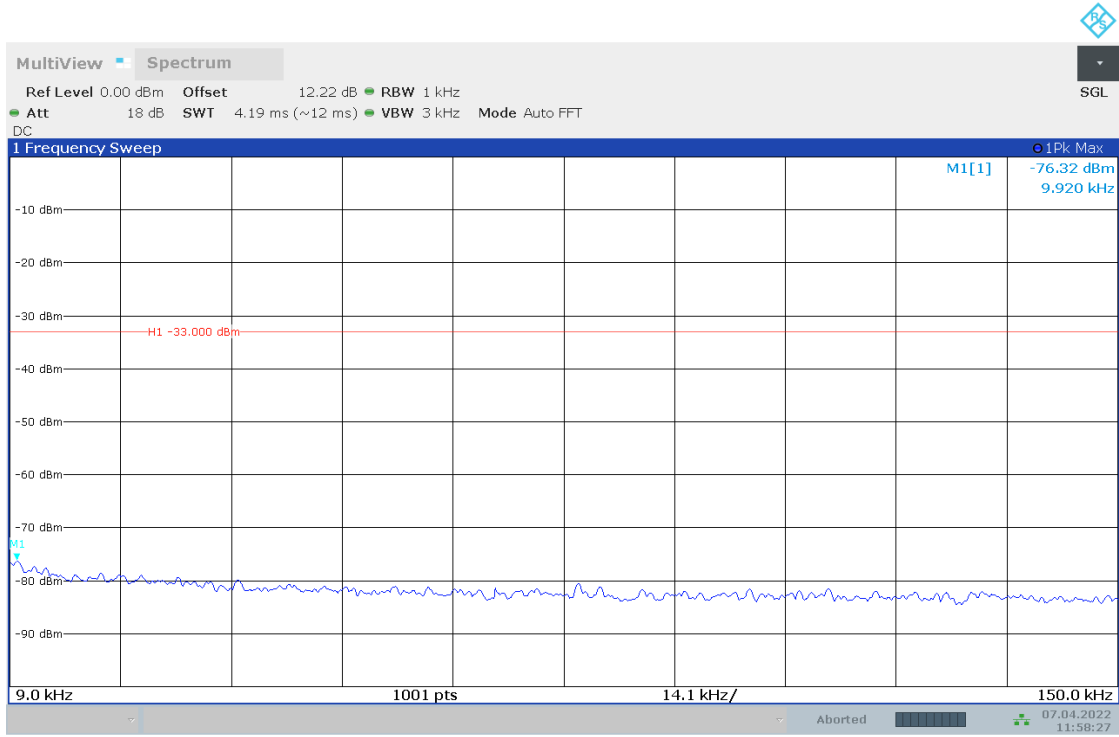


11:57:25 07.04.2022

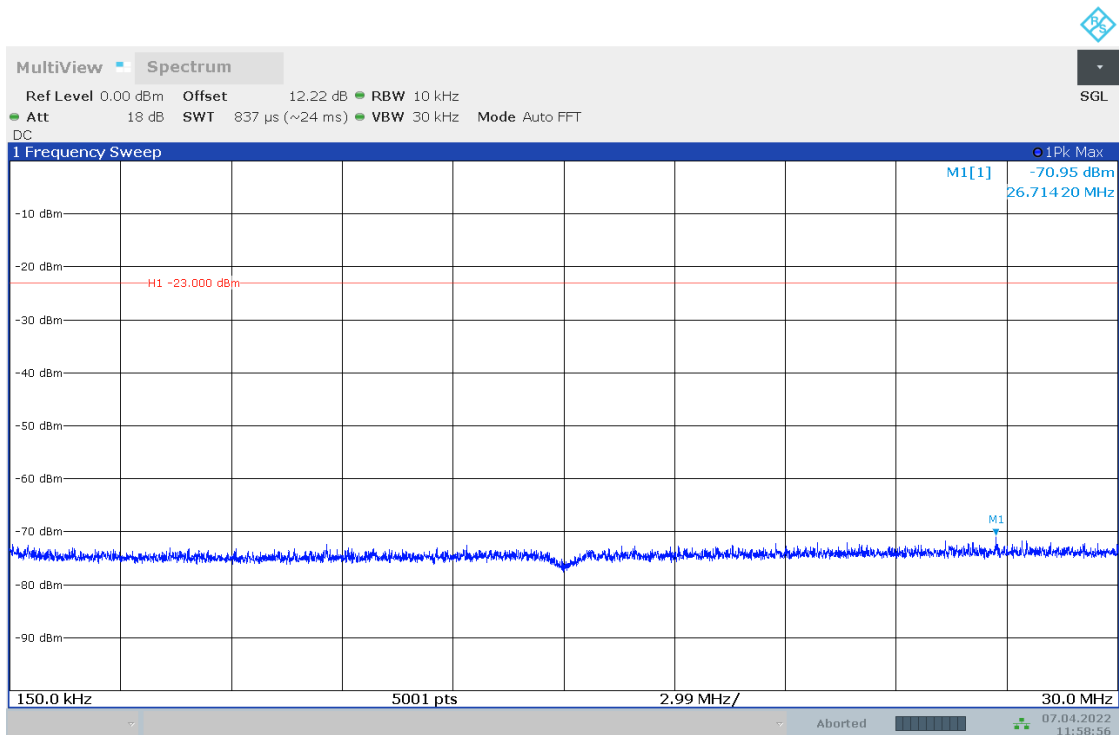


11:57:55 07.04.2022

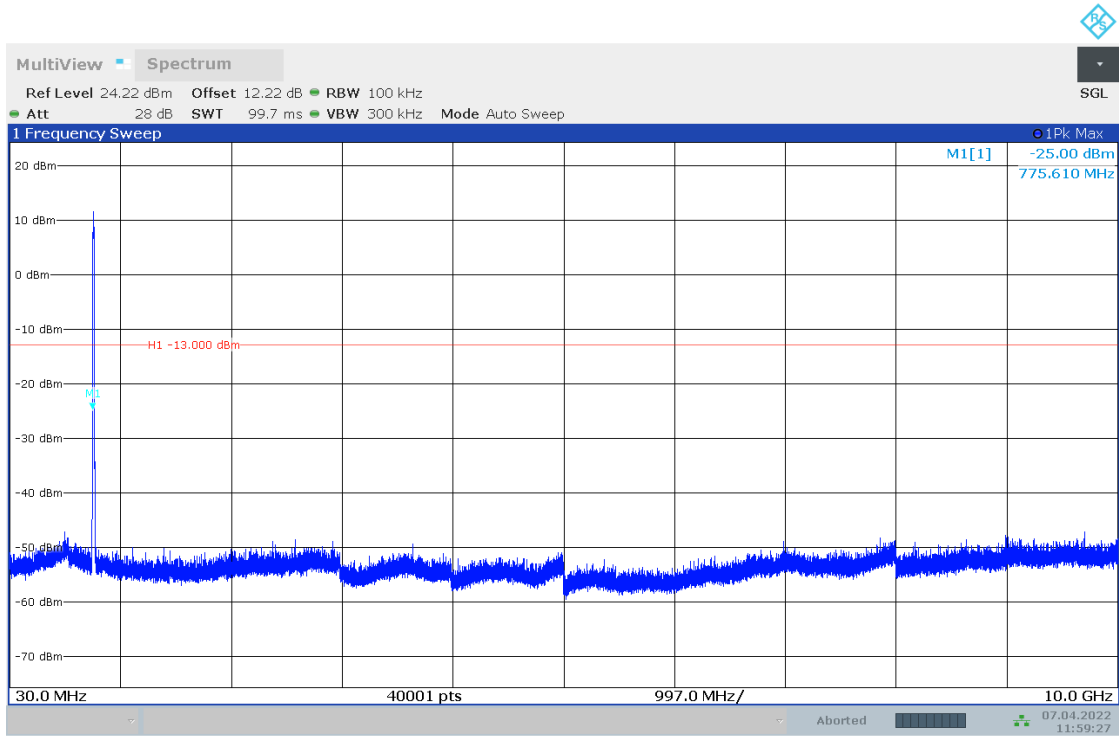
## 6.2.34 TM2\_10MHZ\_HCH\_RB50#0



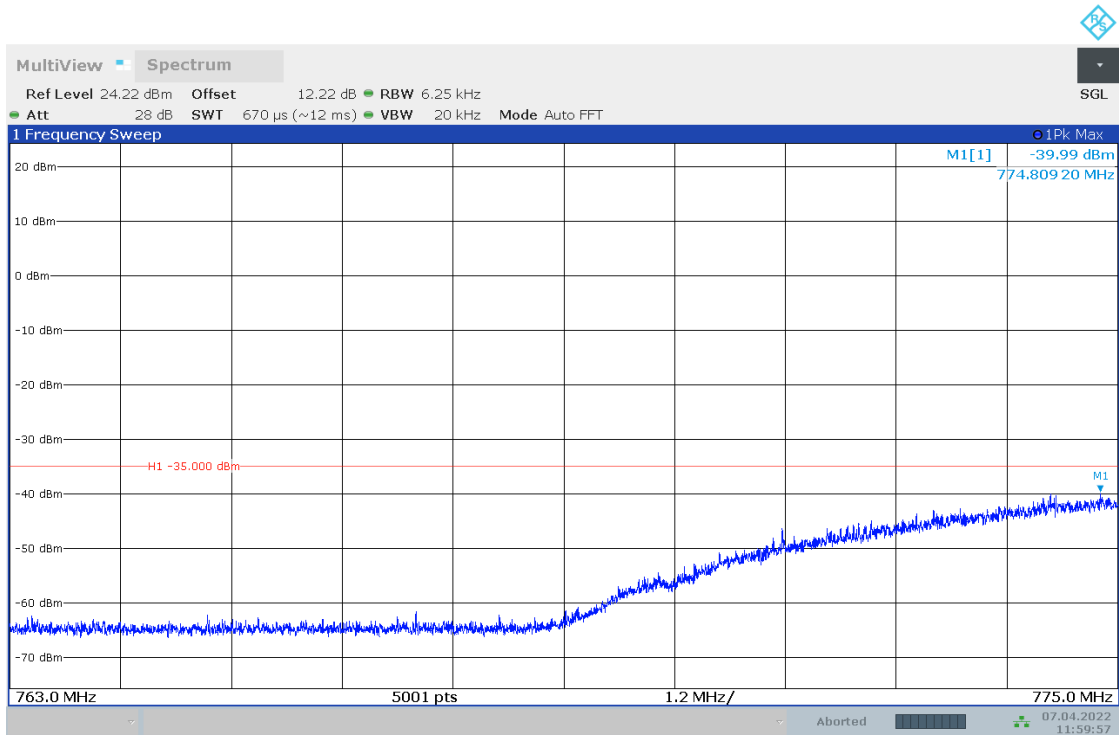
11:58:27 07.04.2022



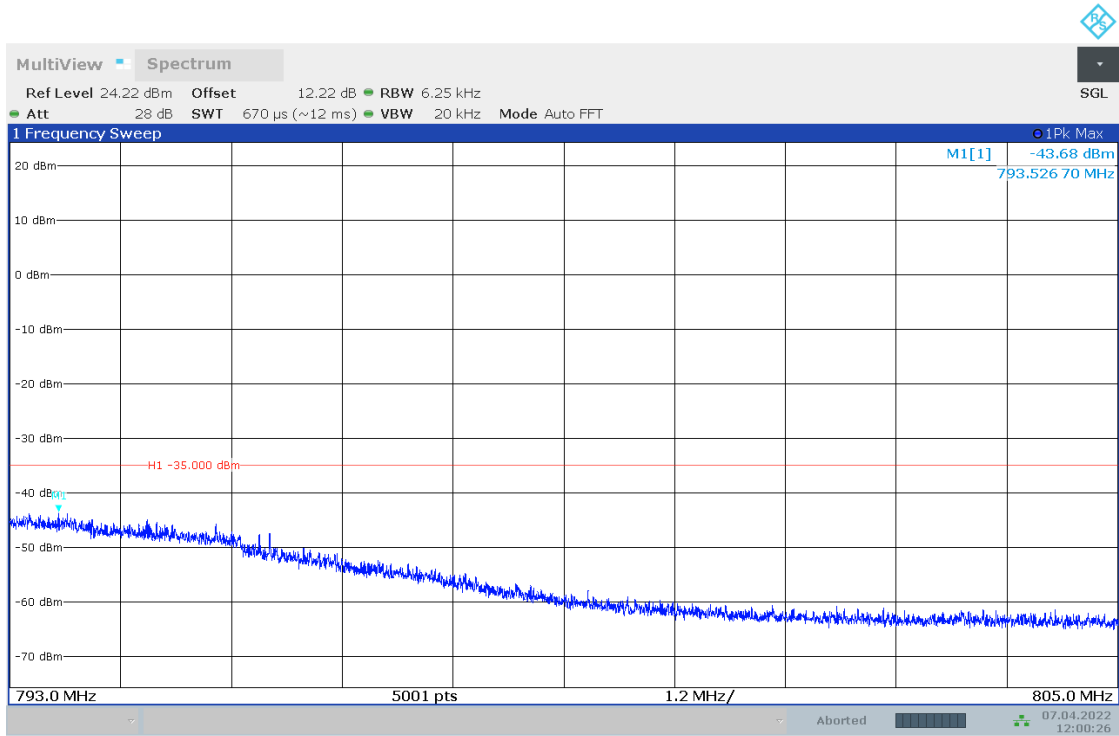
11:58:56 07.04.2022



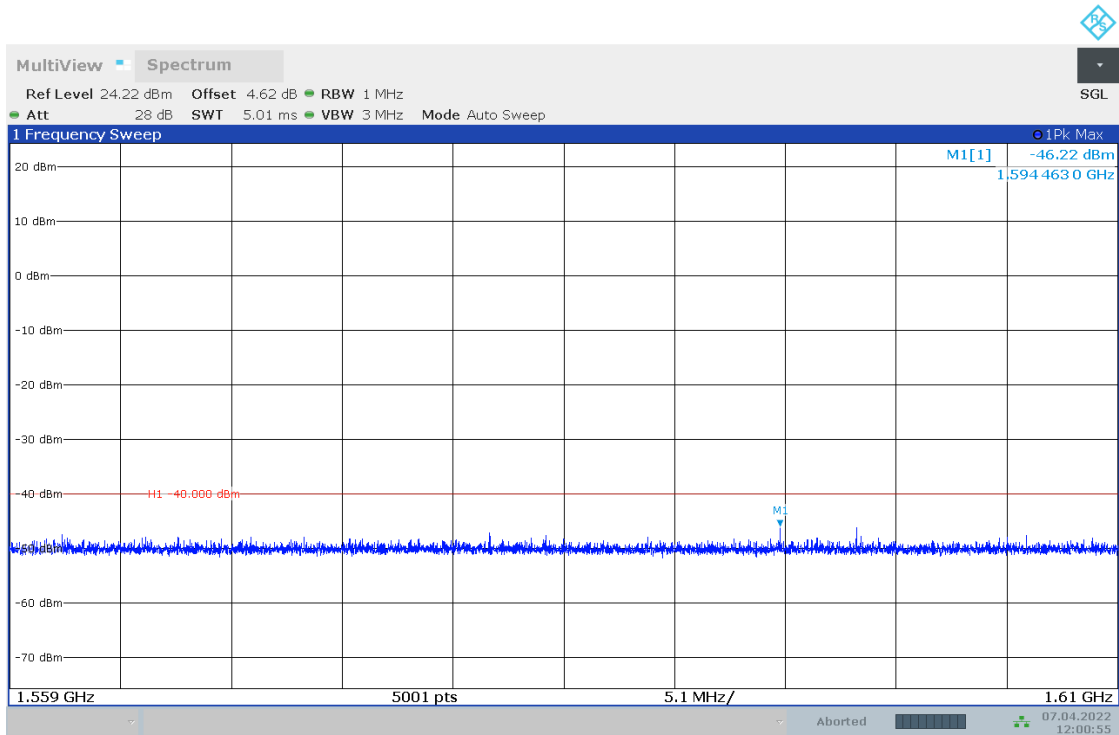
11:59:28 07.04.2022



11:59:57 07.04.2022

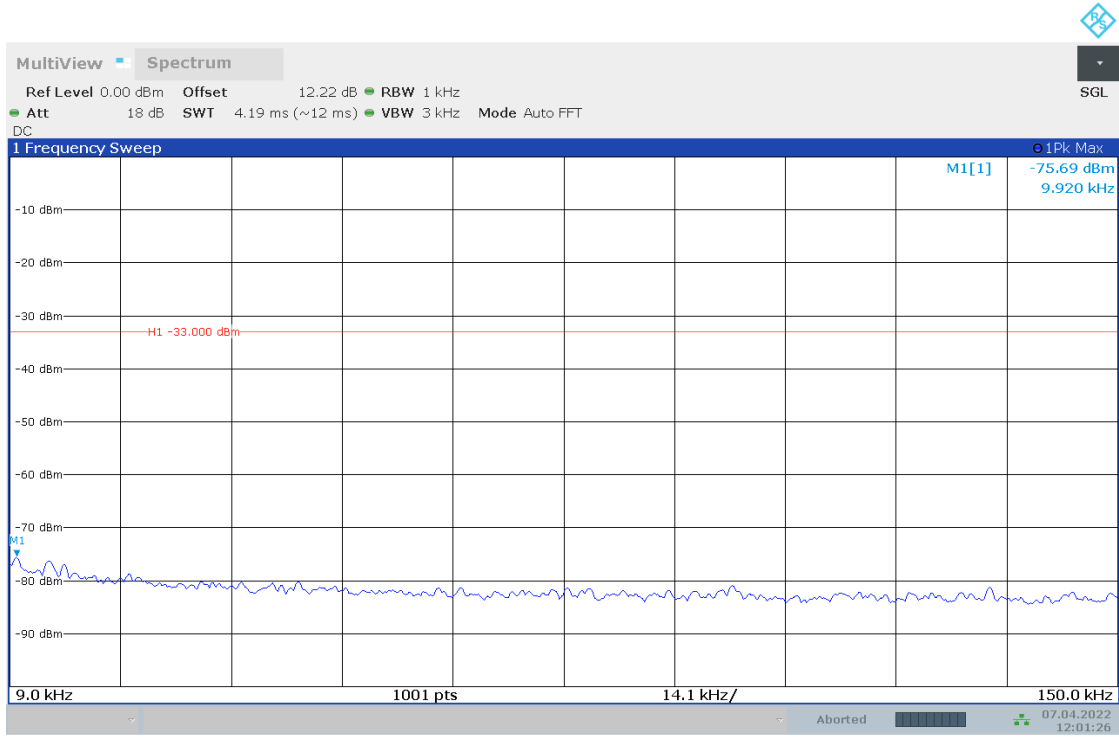


12:00:26 07.04.2022

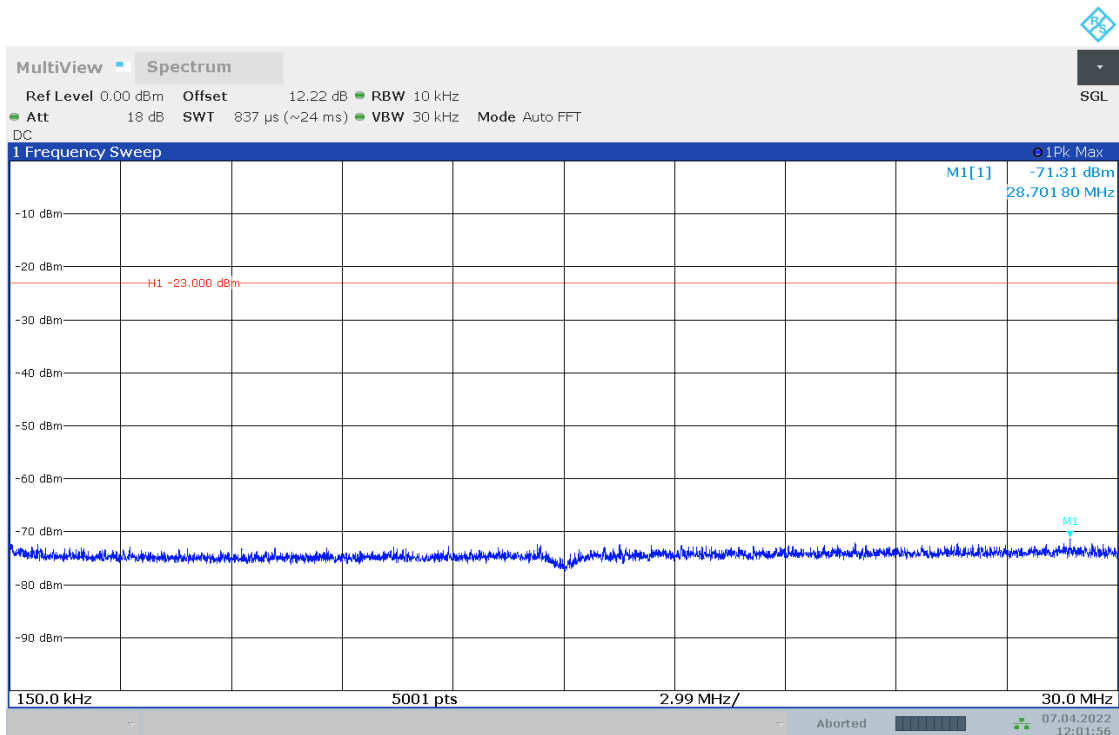


12:00:56 07.04.2022

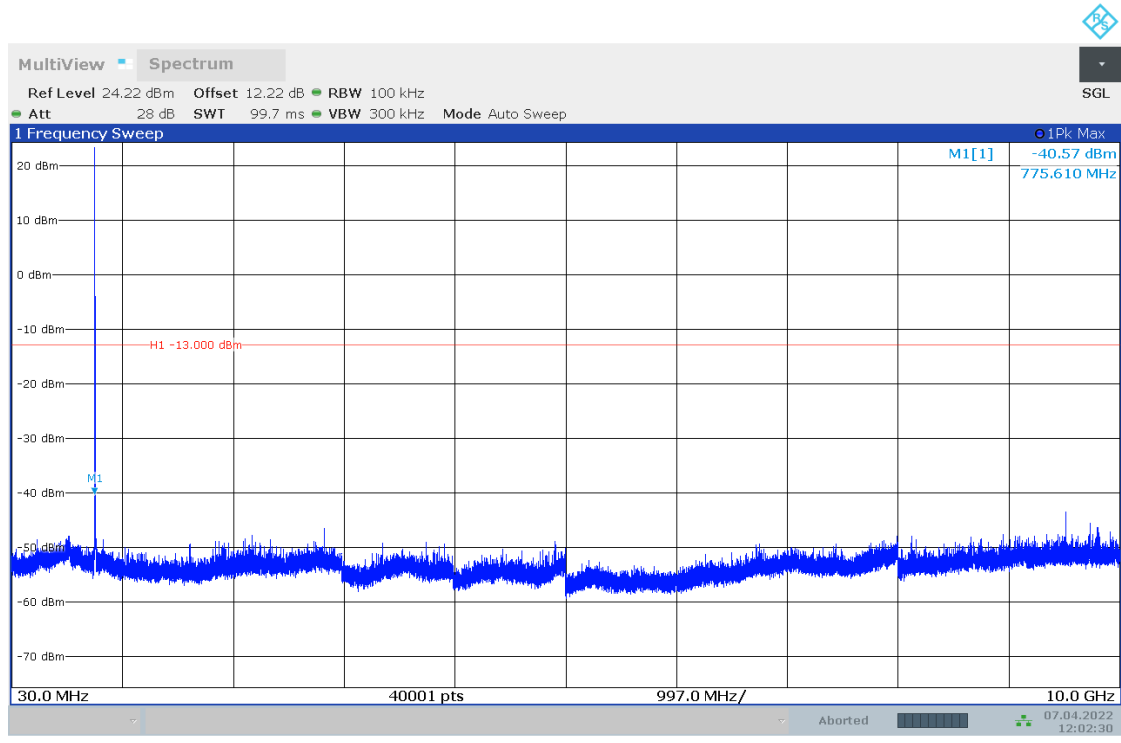
## 6.2.35 TM2\_10MHZ\_HCH\_RB1#0



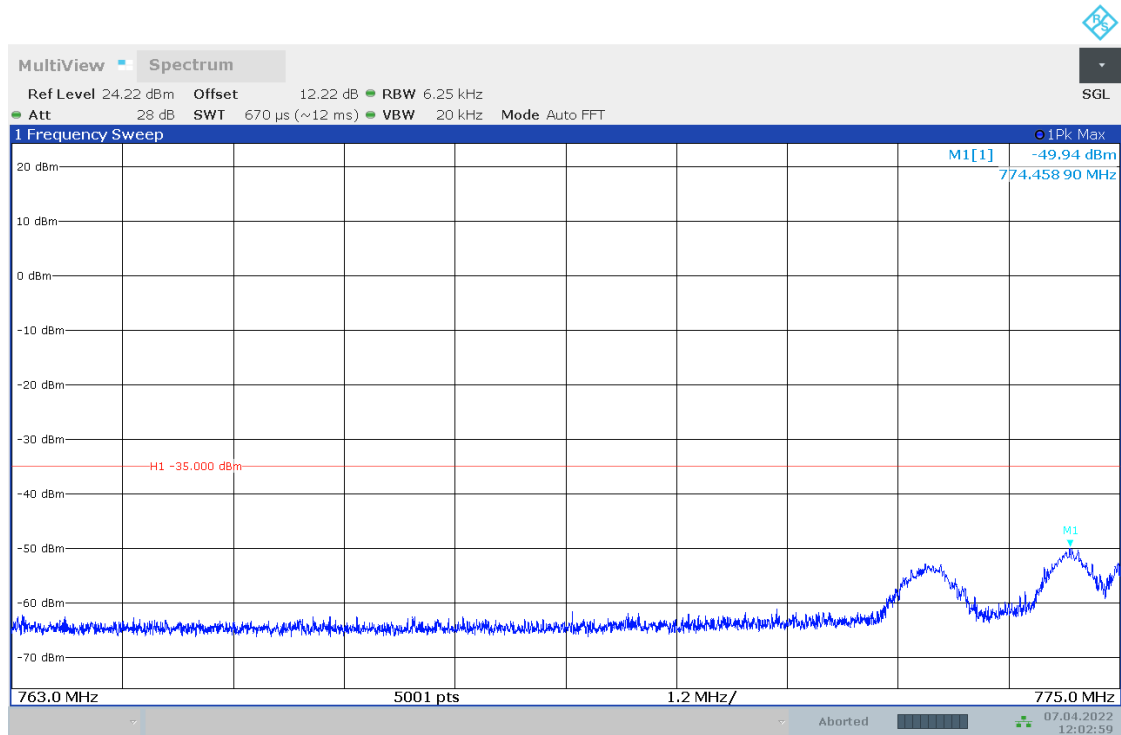
12:01:27 07.04.2022



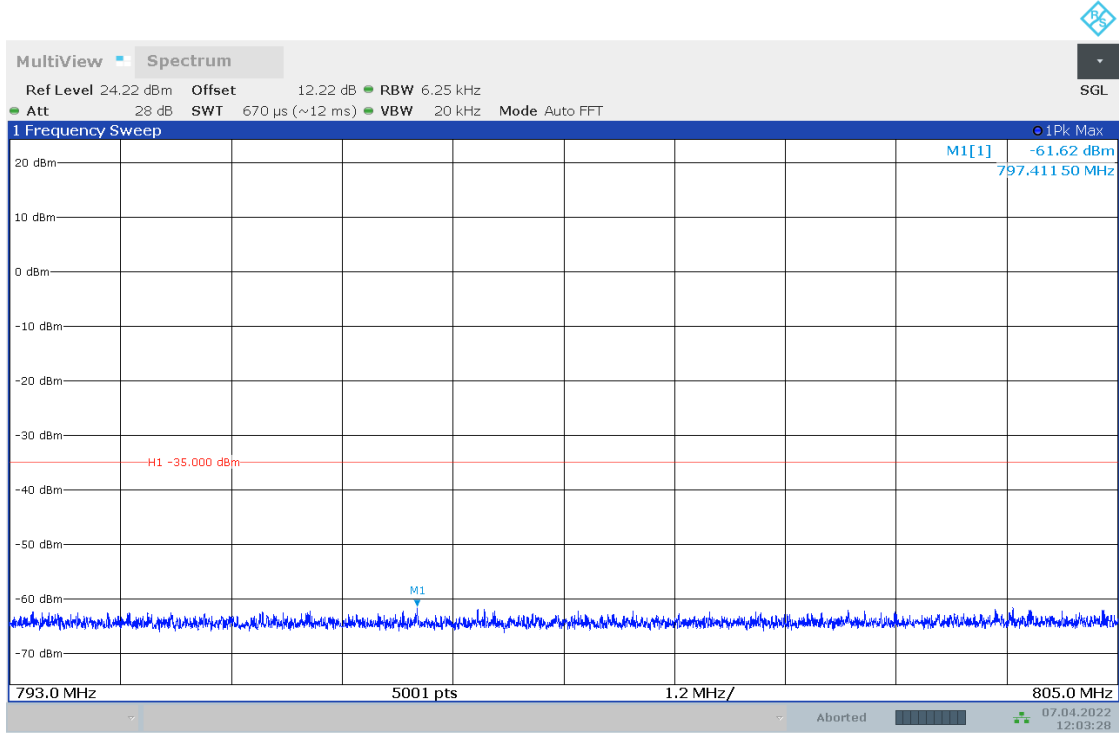
12:01:56 07.04.2022



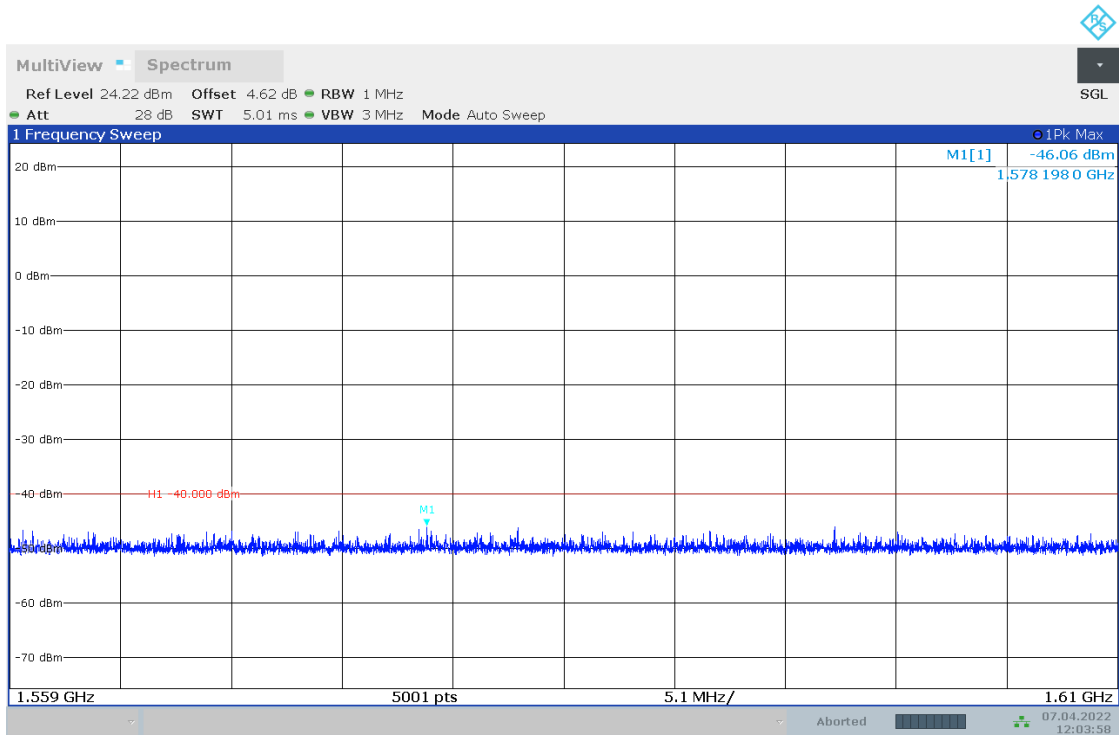
12:02:30 07.04.2022



12:02:59 07.04.2022

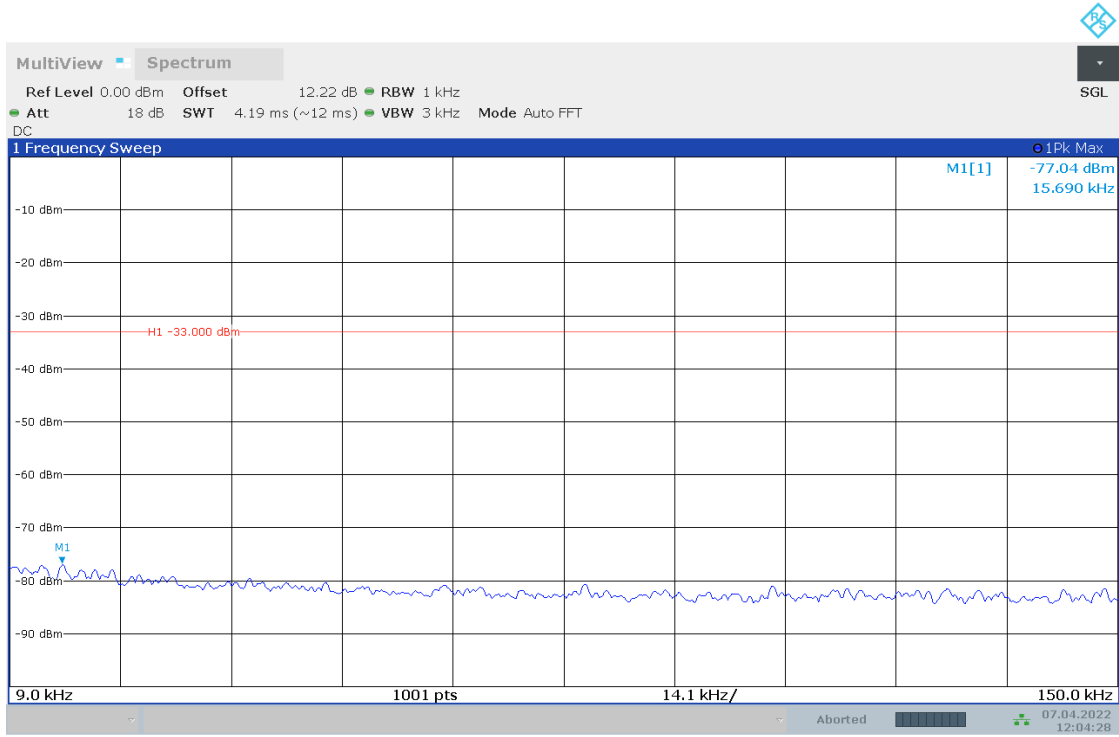


12:03:29 07.04.2022

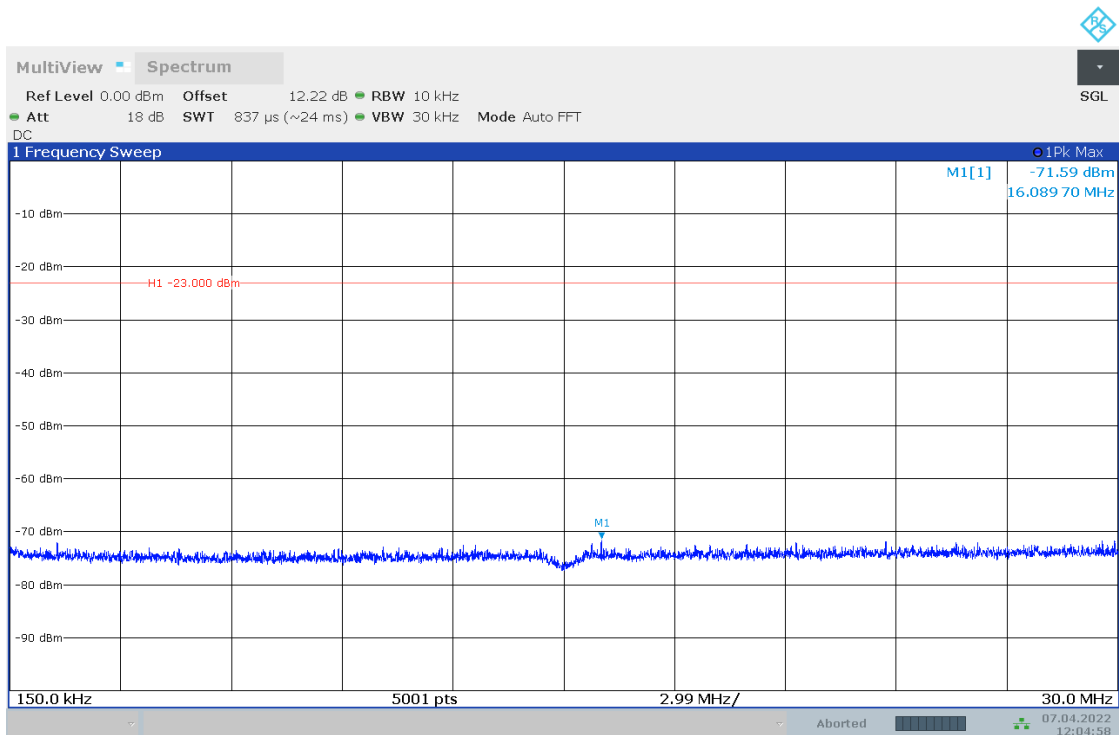


12:03:58 07.04.2022

## 6.2.36 TM2\_10MHZ\_HCH\_RB1#49

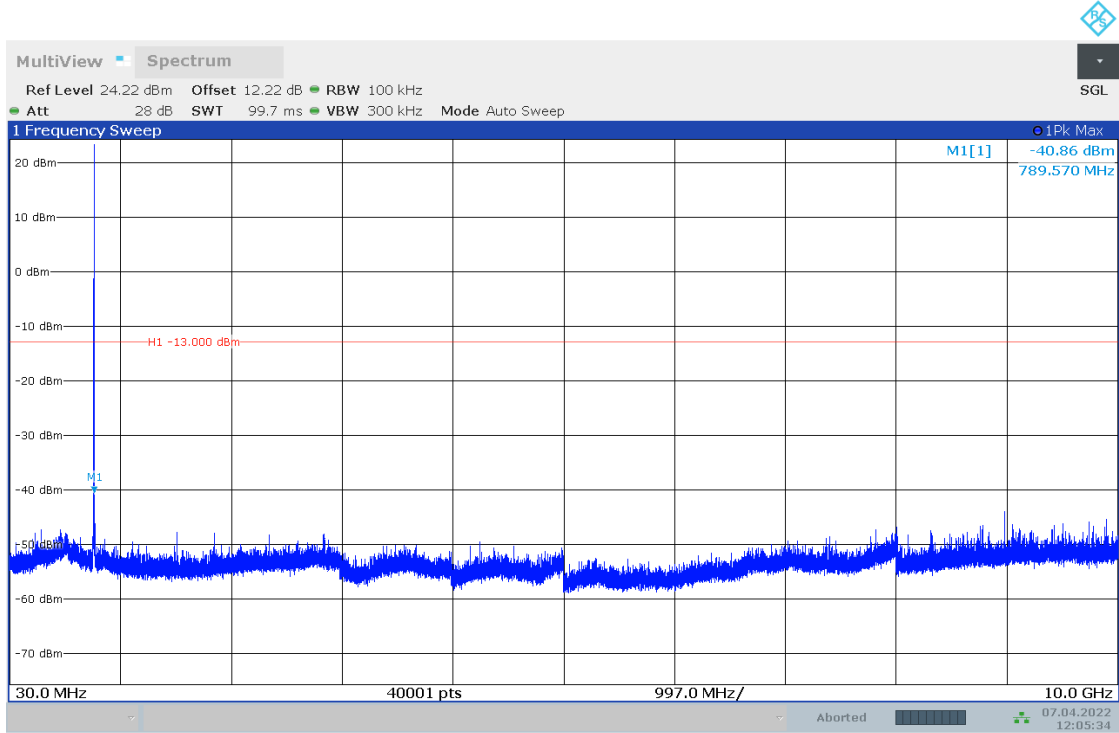


12:04:29 07.04.2022

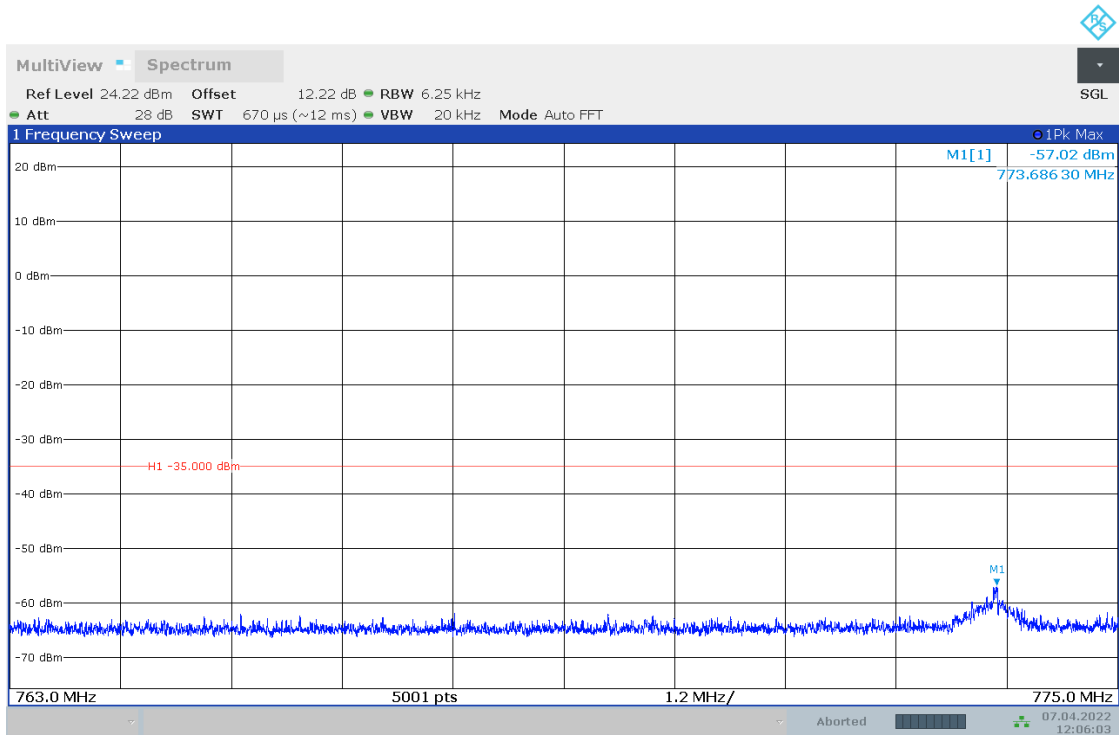


12:04:59 07.04.2022

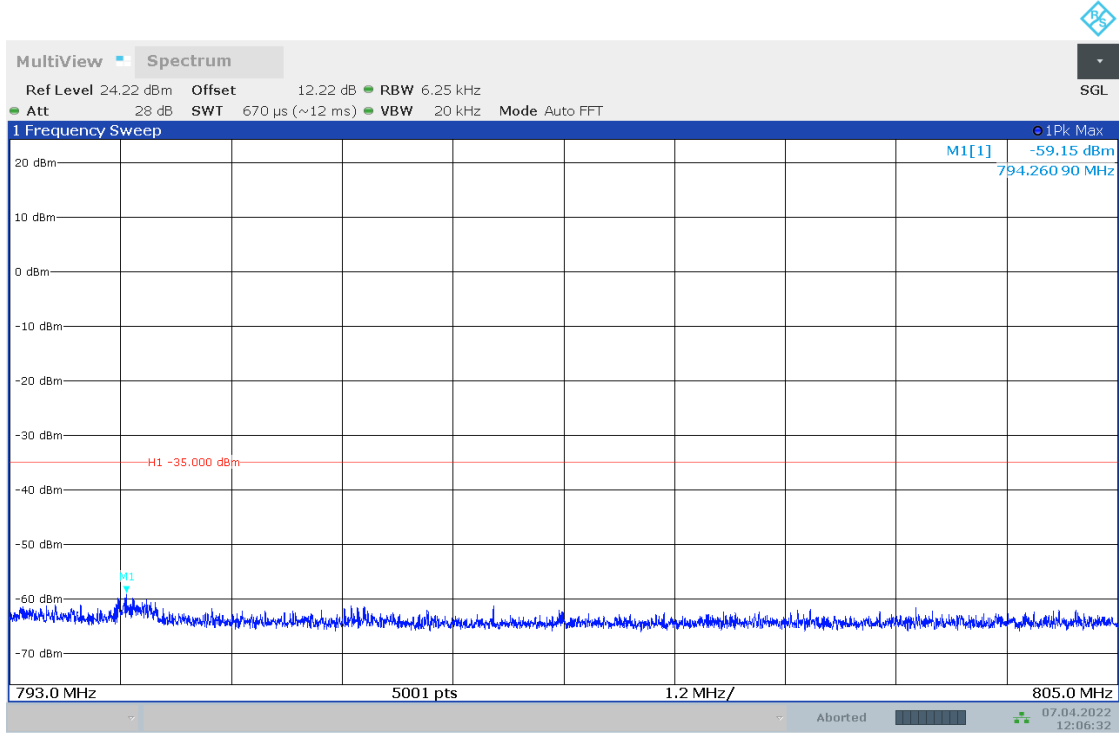




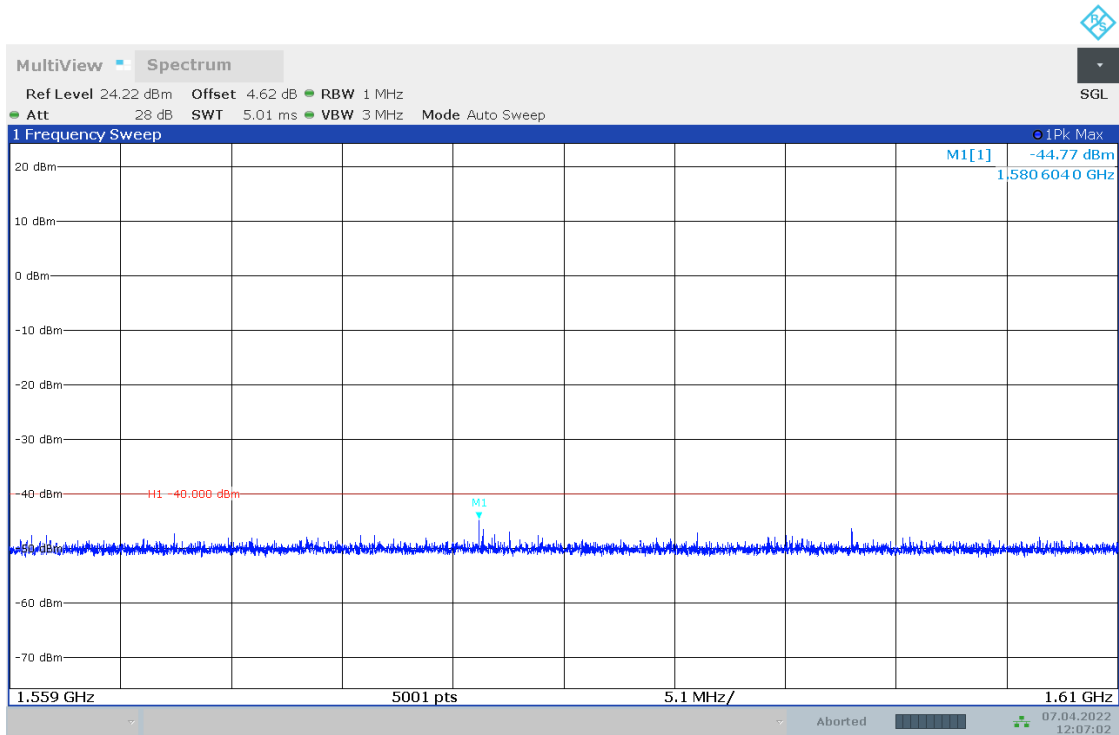
12:05:34 07.04.2022



12:06:03 07.04.2022



12:06:33 07.04.2022



12:07:02 07.04.2022

## 7. APPENDIX G - FREQUENCY STABILITY

### 7.1 TEST RESULTS

#### 7.1.1 FREQUENCY ERROR VS. VOLTAGE

Frequency Error vs. Voltage								
Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM1	5	LCH	QPSK	TN	VH	10.13	0.01	PASS
			QPSK	TN	VN	-2.27	-0.0	PASS
			QPSK	TN	VL	1.67	0.0	PASS
		MCH	QPSK	TN	VH	6.48	0.01	PASS
			QPSK	TN	VN	13.71	0.02	PASS
			QPSK	TN	VL	-2.26	-0.0	PASS
		HCH	QPSK	TN	VH	8.91	0.01	PASS
			QPSK	TN	VN	-0.64	-0.0	PASS
			QPSK	TN	VL	-2.15	-0.0	PASS
	10	LCH	QPSK	TN	VH	-2.45	-0.0	PASS
			QPSK	TN	VN	-4.48	-0.01	PASS
			QPSK	TN	VL	-2.44	-0.0	PASS
		MCH	QPSK	TN	VH	-1.11	-0.0	PASS
			QPSK	TN	VN	-5.54	-0.01	PASS
			QPSK	TN	VL	1.17	0.0	PASS
		HCH	QPSK	TN	VH	-4.48	-0.01	PASS
			QPSK	TN	VN	0.19	0.0	PASS
			QPSK	TN	VL	0.11	0.0	PASS
TM2	5	LCH	16QAM	TN	VH	-3.63	-0.0	PASS
			16QAM	TN	VN	-1.45	-0.0	PASS
			16QAM	TN	VL	2.12	0.0	PASS
		MCH	16QAM	TN	VH	-3.74	-0.0	PASS
			16QAM	TN	VN	10.73	0.01	PASS
			16QAM	TN	VL	1.29	0.0	PASS
		HCH	16QAM	TN	VH	2.35	0.0	PASS
			16QAM	TN	VN	-2.89	-0.0	PASS
			16QAM	TN	VL	7.78	0.01	PASS
	10	LCH	16QAM	TN	VH	8.02	0.01	PASS
			16QAM	TN	VN	0.47	0.0	PASS
			16QAM	TN	VL	-3.23	-0.0	PASS
		MCH	16QAM	TN	VH	0.39	0.0	PASS
			16QAM	TN	VN	-0.29	-0.0	PASS
			16QAM	TN	VL	0.08	0.0	PASS
		HCH	16QAM	TN	VH	1.12	0.0	PASS
			16QAM	TN	VN	11.82	0.02	PASS
			16QAM	TN	VL	0.43	0.0	PASS

**7.1.2 FREQUENCY ERROR VS. TEMPERATURE**

Frequency Error vs. Temperature								
Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM1	5	LCH	QPSK	VN	-30	10.8	0.01	PASS
			QPSK	VN	-20	-0.69	-0.0	PASS
			QPSK	VN	-10	1.32	0.0	PASS
			QPSK	VN	0	10.4	0.01	PASS
			QPSK	VN	10	9.7	0.01	PASS
			QPSK	VN	20	4.29	0.01	PASS
			QPSK	VN	30	4.55	0.01	PASS
			QPSK	VN	40	5.86	0.01	PASS
		MCH	QPSK	VN	50	2.34	0.0	PASS
			QPSK	VN	-30	-0.84	-0.0	PASS
			QPSK	VN	-20	-2.1	-0.0	PASS
			QPSK	VN	-10	-8.12	-0.01	PASS
			QPSK	VN	0	-0.18	-0.0	PASS
			QPSK	VN	10	5.13	0.01	PASS
			QPSK	VN	20	0.14	0.0	PASS
			QPSK	VN	30	8.06	0.01	PASS
		HCH	QPSK	VN	40	10.15	0.01	PASS
			QPSK	VN	50	-2.15	-0.0	PASS
			QPSK	VN	-30	-2.52	-0.0	PASS
			QPSK	VN	-20	-3.38	-0.0	PASS
			QPSK	VN	-10	-0.1	-0.0	PASS
			QPSK	VN	0	-4.52	-0.01	PASS
			QPSK	VN	10	3.87	0.0	PASS
			QPSK	VN	20	-7.41	-0.01	PASS
QPSK	VN	30	-2.11	-0.0	PASS			
QPSK	VN	40	8.58	0.01	PASS			
QPSK	VN	50	9.65	0.01	PASS			

Frequency Error vs. Temperature								
Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM1	10	LCH	QPSK	VN	-30	-4.3	-0.01	PASS
			QPSK	VN	-20	-0.7	-0.0	PASS
			QPSK	VN	-10	-7.02	-0.01	PASS
			QPSK	VN	0	1.4	0.0	PASS
			QPSK	VN	10	-3.11	-0.0	PASS
			QPSK	VN	20	2.97	0.0	PASS
			QPSK	VN	30	-6.93	-0.01	PASS
			QPSK	VN	40	4.25	0.01	PASS
		MCH	QPSK	VN	50	2.46	0.0	PASS
			QPSK	VN	-30	-3.01	-0.0	PASS
			QPSK	VN	-20	-3.55	-0.0	PASS
			QPSK	VN	-10	1.84	0.0	PASS
			QPSK	VN	0	-5.5	-0.01	PASS
			QPSK	VN	10	5.08	0.01	PASS
			QPSK	VN	20	-3.2	-0.0	PASS
			QPSK	VN	30	4.15	0.01	PASS
		HCH	QPSK	VN	40	-3.06	-0.0	PASS
			QPSK	VN	50	1.05	0.0	PASS
			QPSK	VN	-30	13.0	0.02	PASS
			QPSK	VN	-20	1.61	0.0	PASS
			QPSK	VN	-10	-8.39	-0.01	PASS
			QPSK	VN	0	-0.36	-0.0	PASS
			QPSK	VN	10	-7.08	-0.01	PASS
			QPSK	VN	20	-0.03	-0.0	PASS
		QPSK	VN	30	3.28	0.0	PASS	
		QPSK	VN	40	-1.33	-0.0	PASS	
		QPSK	VN	50	-1.77	-0.0	PASS	

Frequency Error vs. Temperature								
Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM2	5	LCH	16QAM	VN	-30	5.76	0.01	PASS
			16QAM	VN	-20	1.53	0.0	PASS
			16QAM	VN	-10	-1.11	-0.0	PASS
			16QAM	VN	0	0.31	0.0	PASS
			16QAM	VN	10	-6.24	-0.01	PASS
			16QAM	VN	20	13.31	0.02	PASS
			16QAM	VN	30	2.71	0.0	PASS
			16QAM	VN	40	0.39	0.0	PASS
		MCH	16QAM	VN	50	-4.93	-0.01	PASS
			16QAM	VN	-30	3.67	0.0	PASS
			16QAM	VN	-20	12.71	0.02	PASS
			16QAM	VN	-10	-1.95	-0.0	PASS
			16QAM	VN	0	-1.37	-0.0	PASS
			16QAM	VN	10	1.2	0.0	PASS
			16QAM	VN	20	-3.55	-0.0	PASS
			16QAM	VN	30	-4.76	-0.01	PASS
		HCH	16QAM	VN	40	-0.34	-0.0	PASS
			16QAM	VN	50	-0.47	-0.0	PASS
			16QAM	VN	-30	-1.03	-0.0	PASS
			16QAM	VN	-20	1.15	0.0	PASS
			16QAM	VN	-10	1.77	0.0	PASS
			16QAM	VN	0	-0.13	-0.0	PASS
			16QAM	VN	10	10.62	0.01	PASS
			16QAM	VN	20	3.77	0.0	PASS
16QAM	VN	30	1.32	0.0	PASS			
16QAM	VN	40	-1.9	-0.0	PASS			
16QAM	VN	50	5.31	0.01	PASS			

Frequency Error vs. Temperature								
Test Mode	Test Bandwidth [MHz]	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
TM2	10	LCH	16QAM	VN	-30	-4.72	-0.01	PASS
			16QAM	VN	-20	1.88	0.0	PASS
			16QAM	VN	-10	3.02	0.0	PASS
			16QAM	VN	0	-2.42	-0.0	PASS
			16QAM	VN	10	-1.33	-0.0	PASS
			16QAM	VN	20	5.48	0.01	PASS
			16QAM	VN	30	4.44	0.01	PASS
			16QAM	VN	40	0.61	0.0	PASS
		MCH	16QAM	VN	-30	-1.51	-0.0	PASS
			16QAM	VN	-20	5.89	0.01	PASS
			16QAM	VN	-10	1.92	0.0	PASS
			16QAM	VN	0	3.18	0.0	PASS
			16QAM	VN	10	0.66	0.0	PASS
			16QAM	VN	20	4.15	0.01	PASS
			16QAM	VN	30	-3.89	-0.0	PASS
			16QAM	VN	40	9.57	0.01	PASS
		HCH	16QAM	VN	50	-10.88	-0.01	PASS
			16QAM	VN	-30	3.45	0.0	PASS
			16QAM	VN	-20	0.01	0.0	PASS
			16QAM	VN	-10	0.59	0.0	PASS
			16QAM	VN	0	5.91	0.01	PASS
			16QAM	VN	10	0.17	0.0	PASS
			16QAM	VN	20	-0.24	-0.0	PASS
			16QAM	VN	30	-2.41	-0.0	PASS
		16QAM	VN	40	5.88	0.01	PASS	
		16QAM	VN	50	-3.3	-0.0	PASS	

End of Test Report