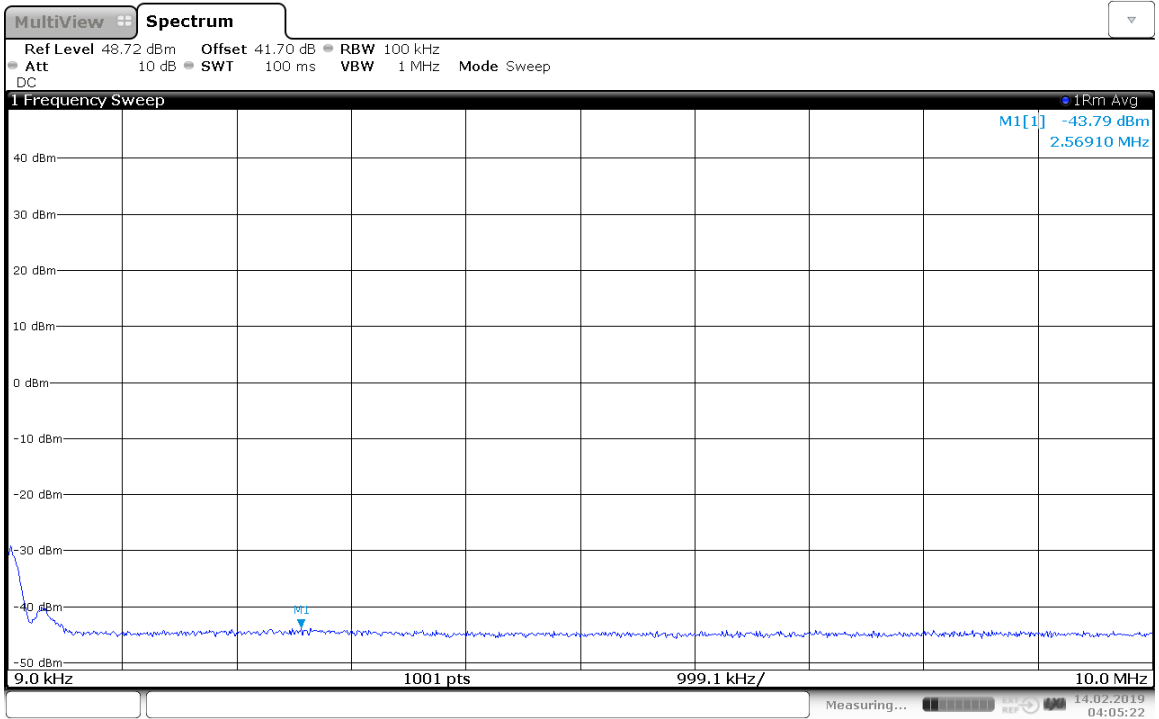
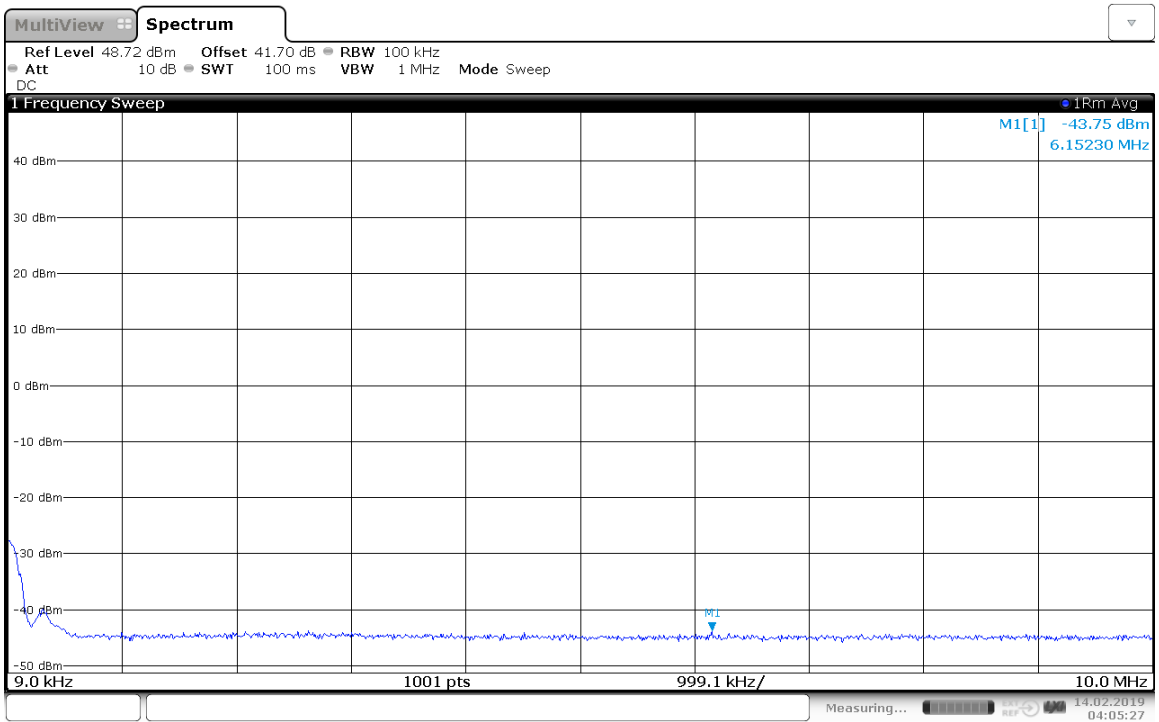


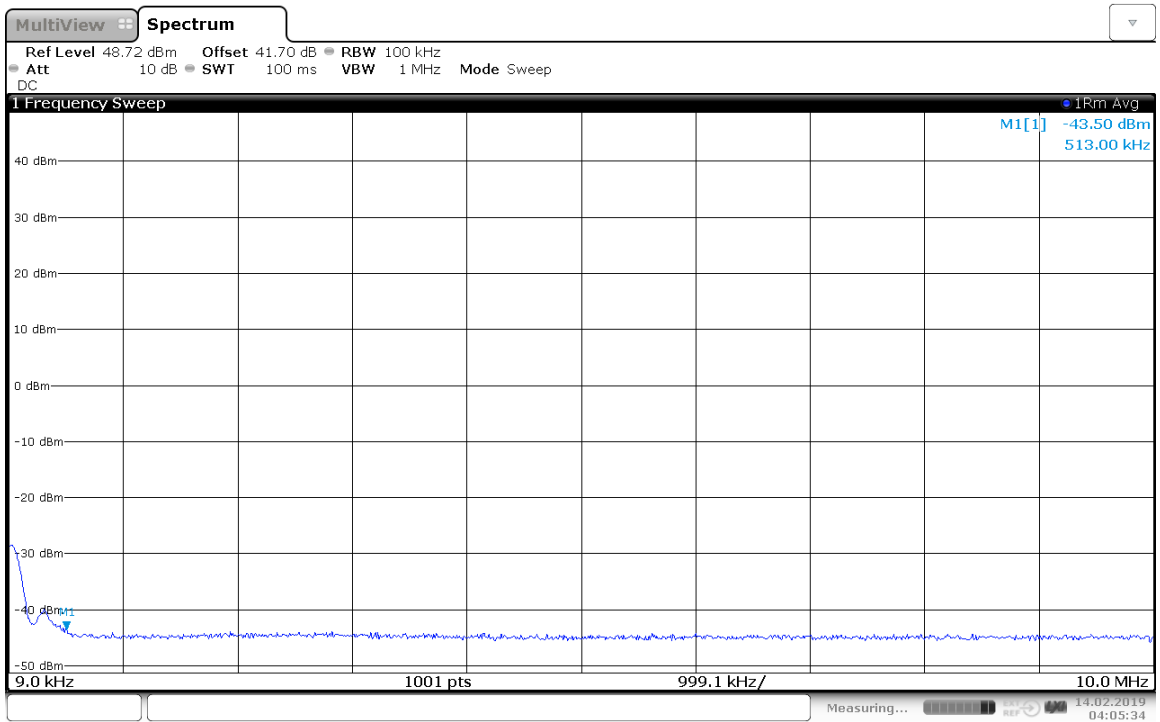
5M+5M-2147.5MHz-Port1~4:



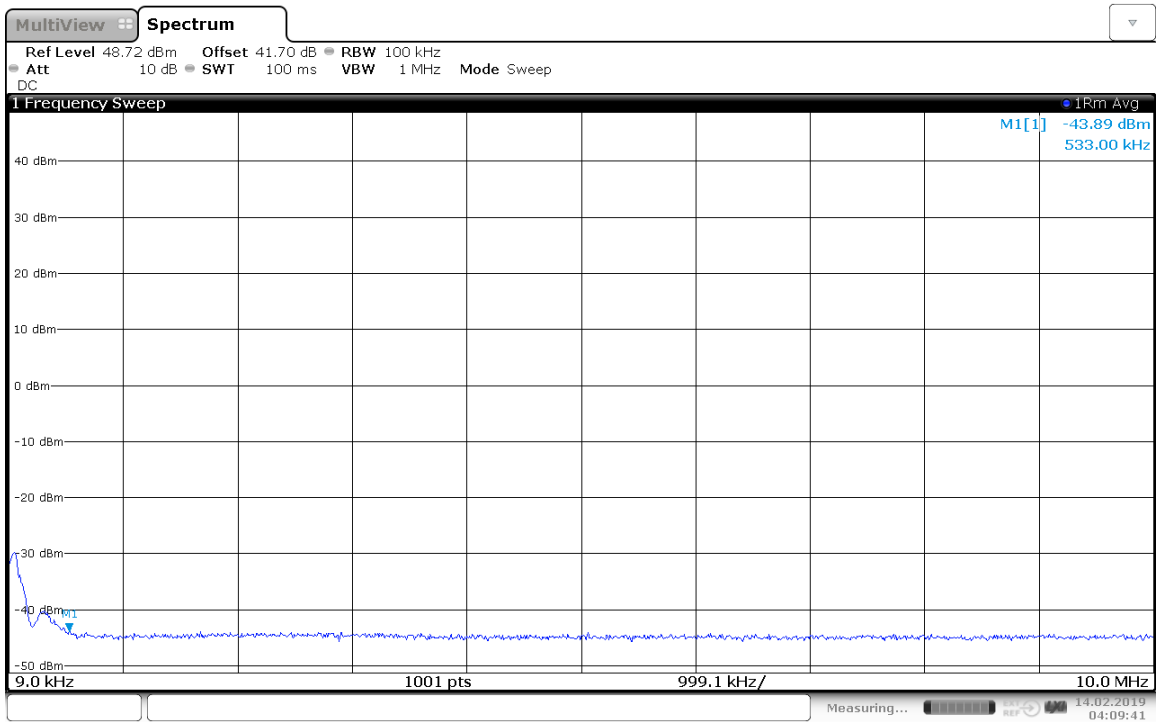
04:05:22 14.02.2019



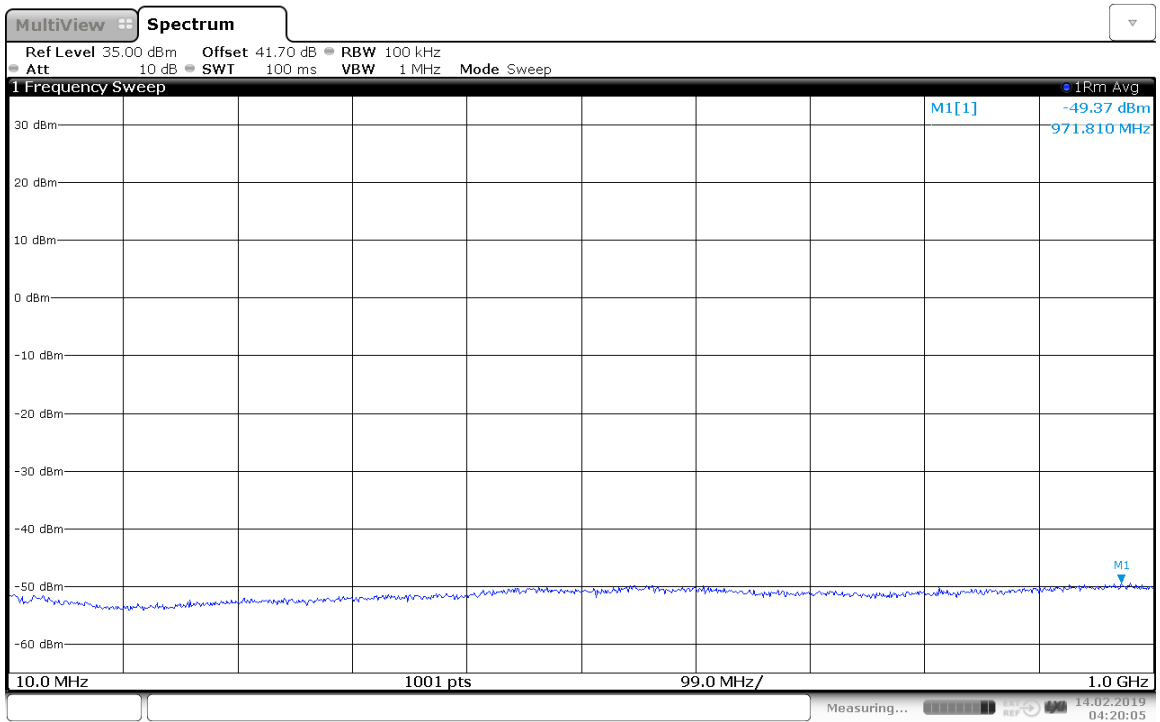
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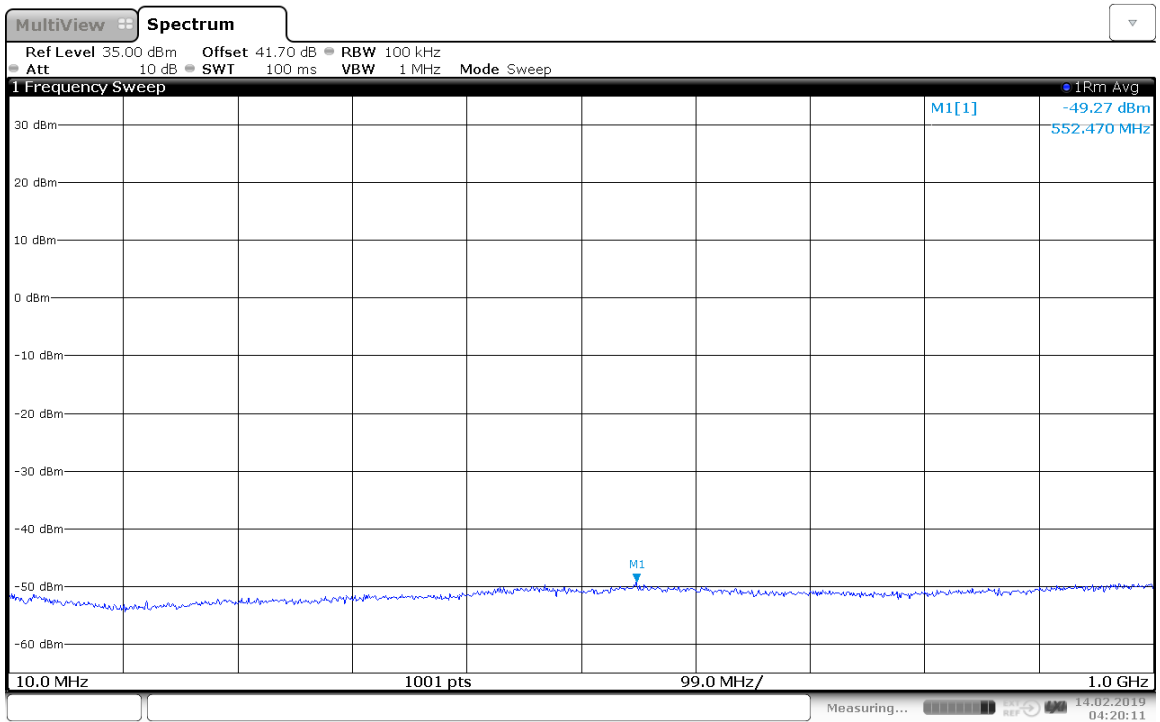
04:05:35 14.02.2019



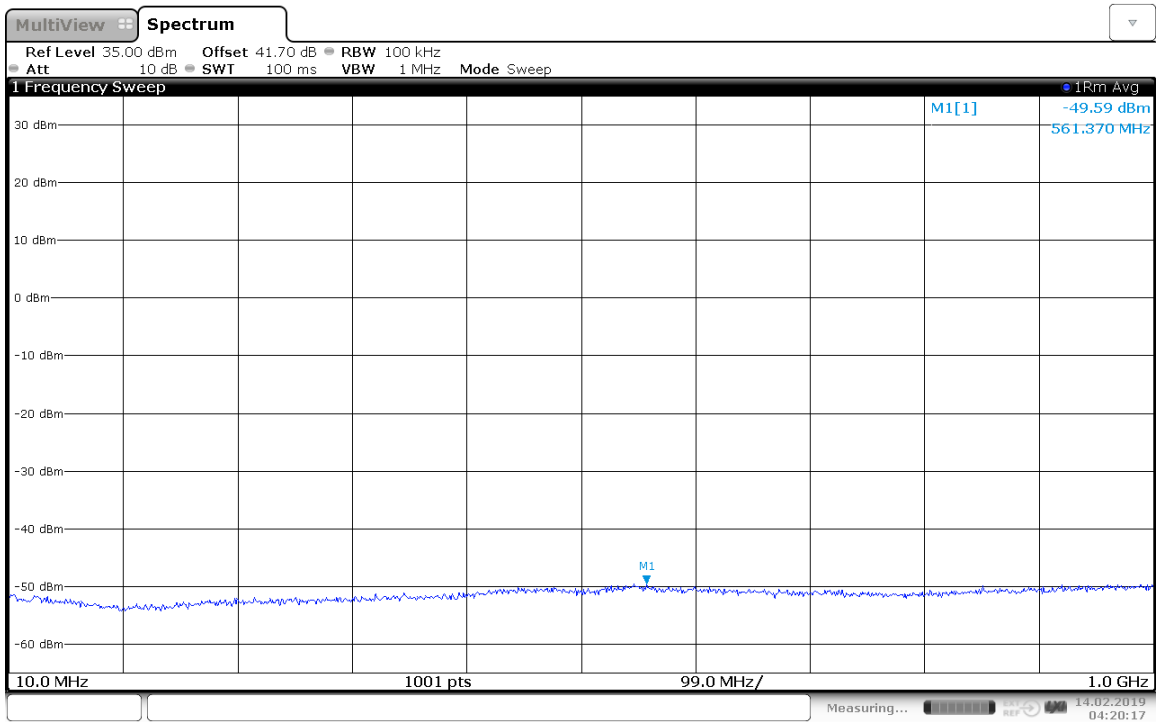
04:09:42 14.02.2019



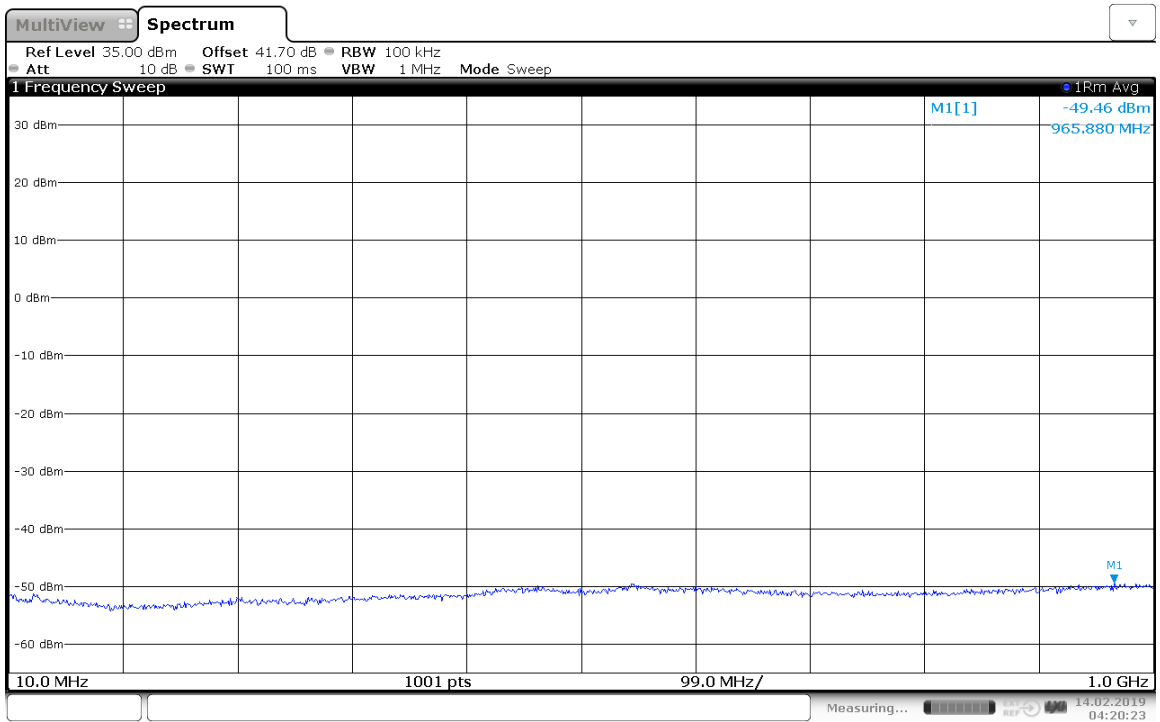
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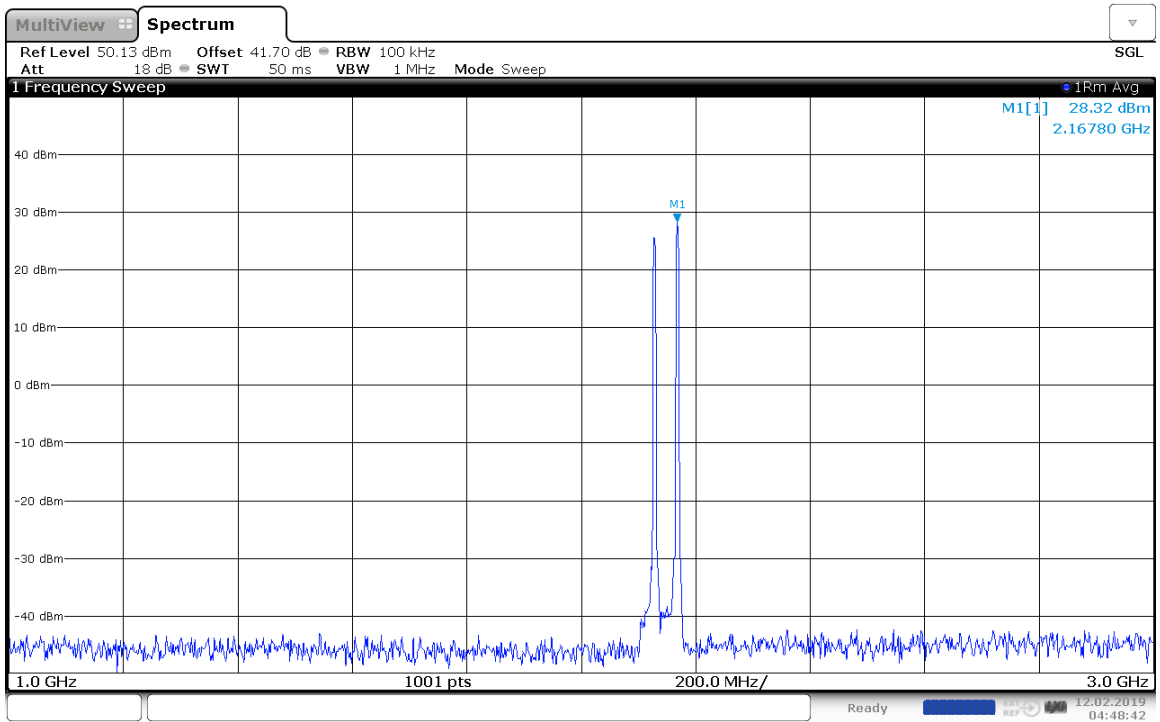
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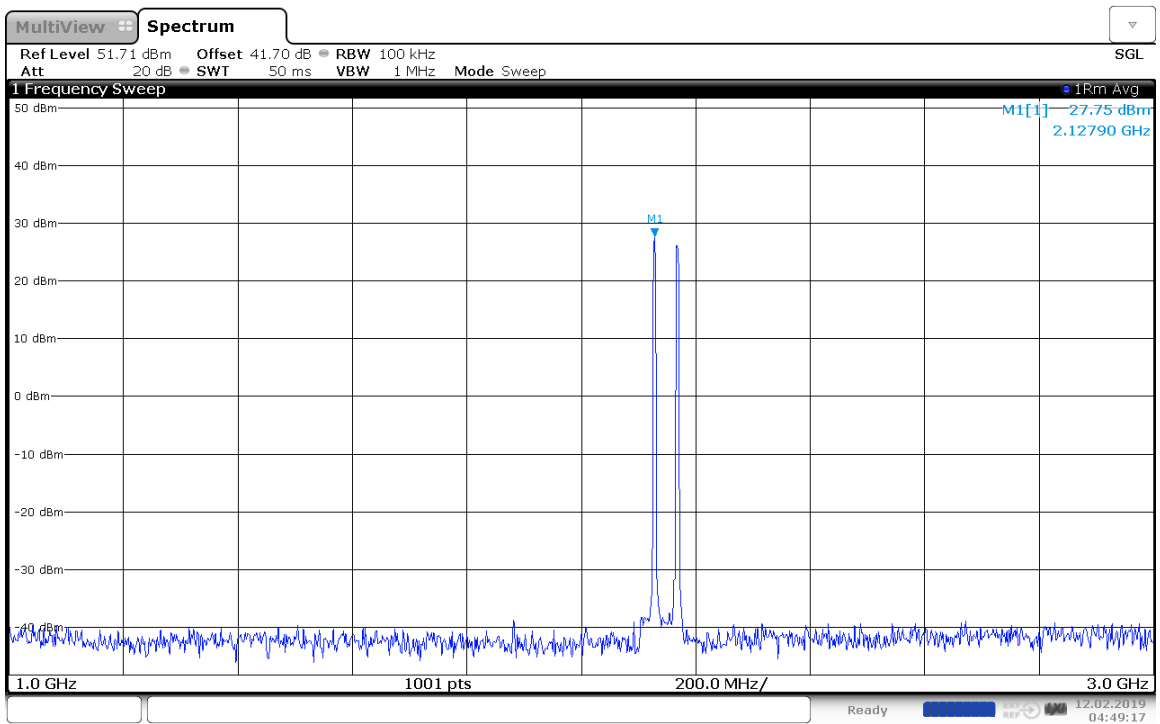
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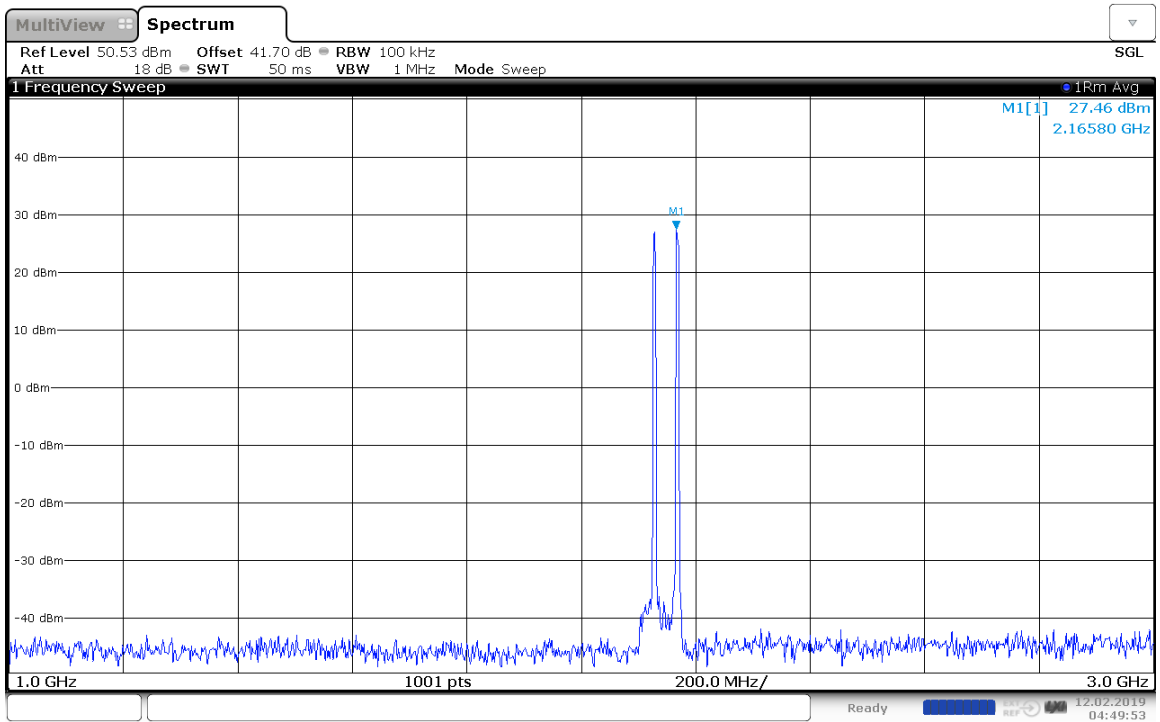
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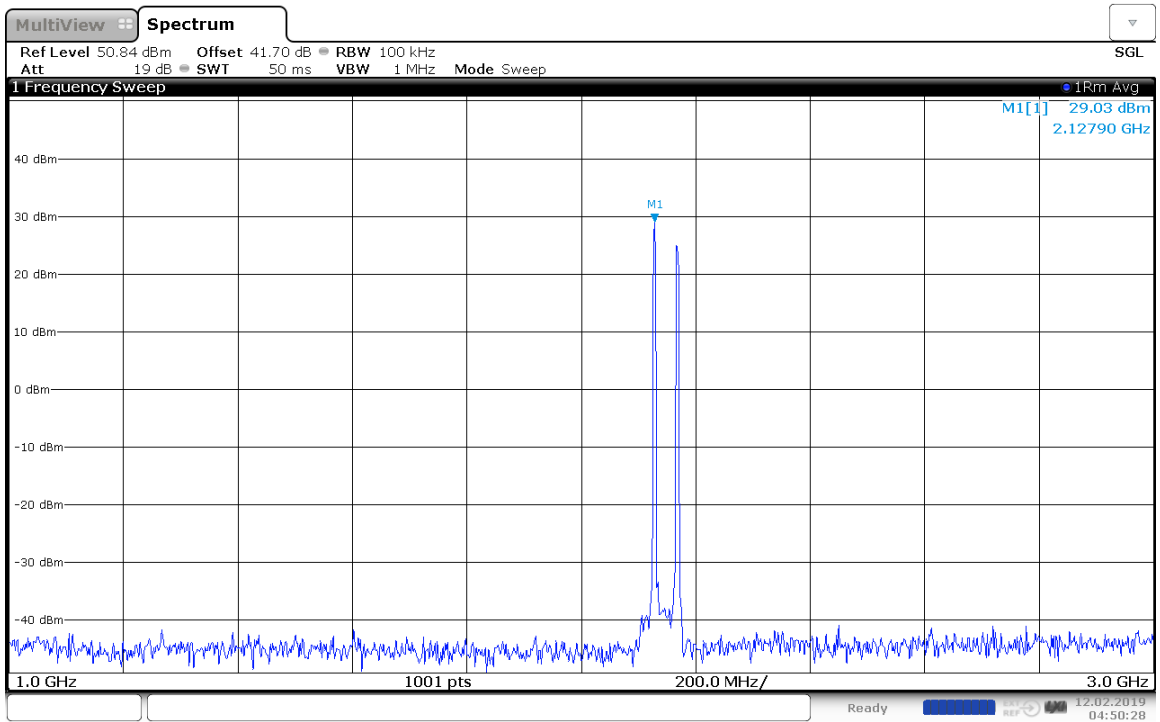
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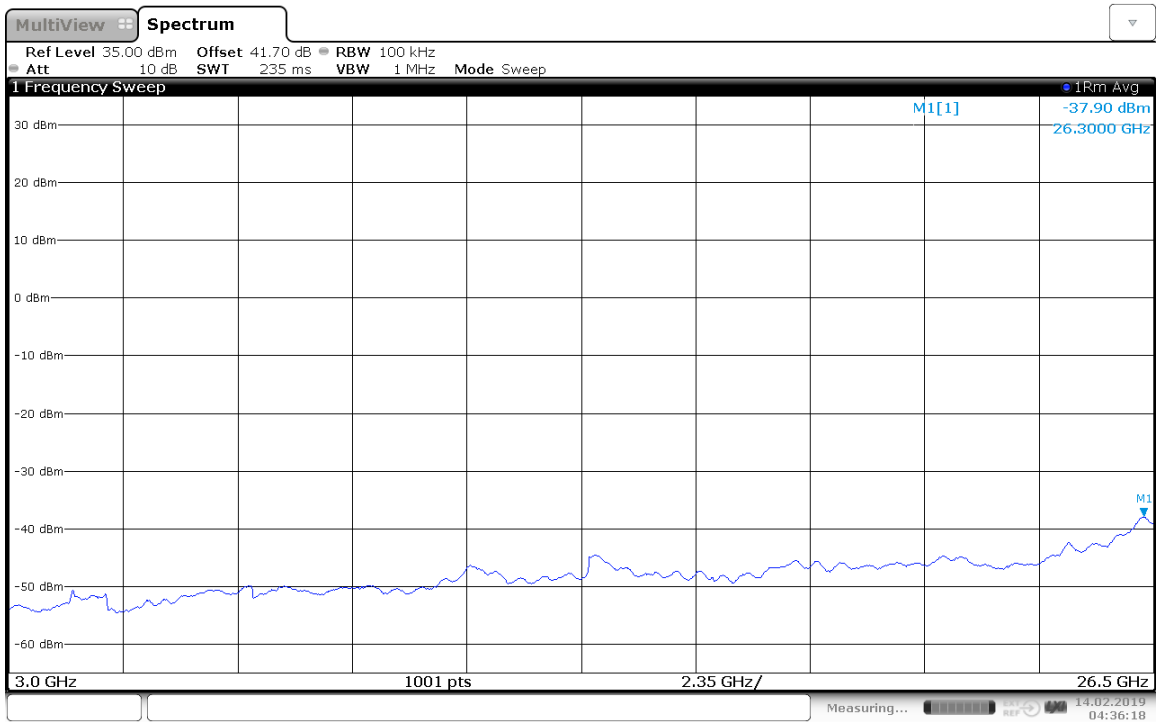
04:49:18 12.02.2019



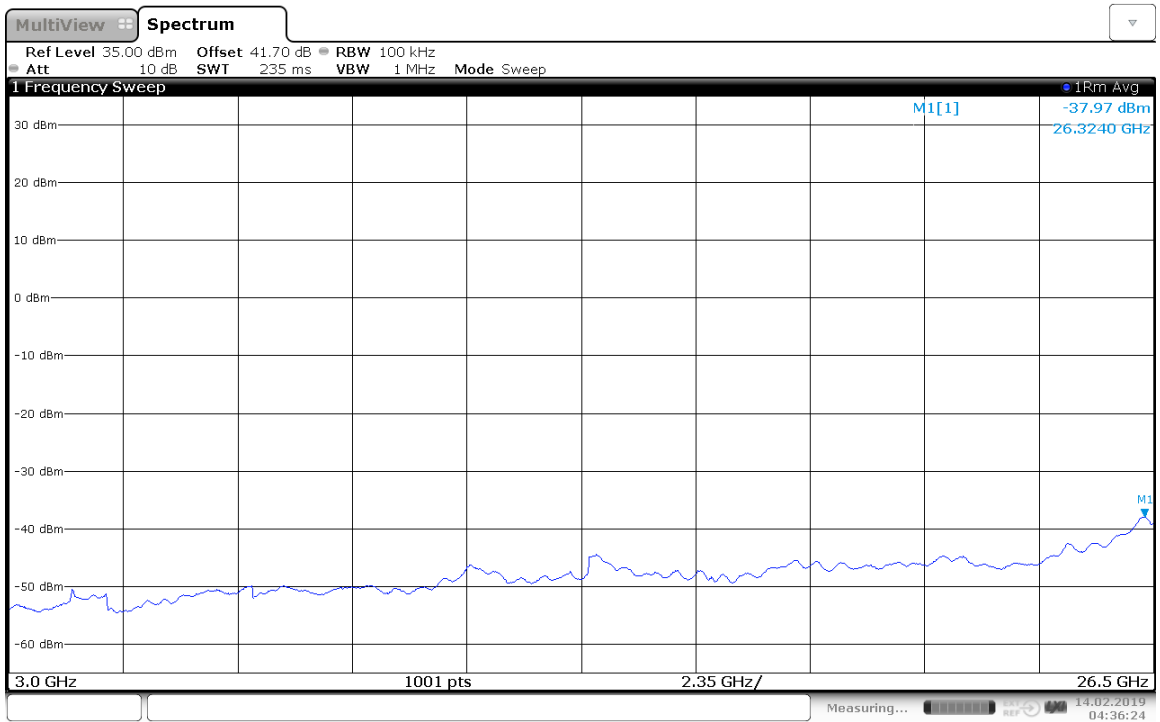
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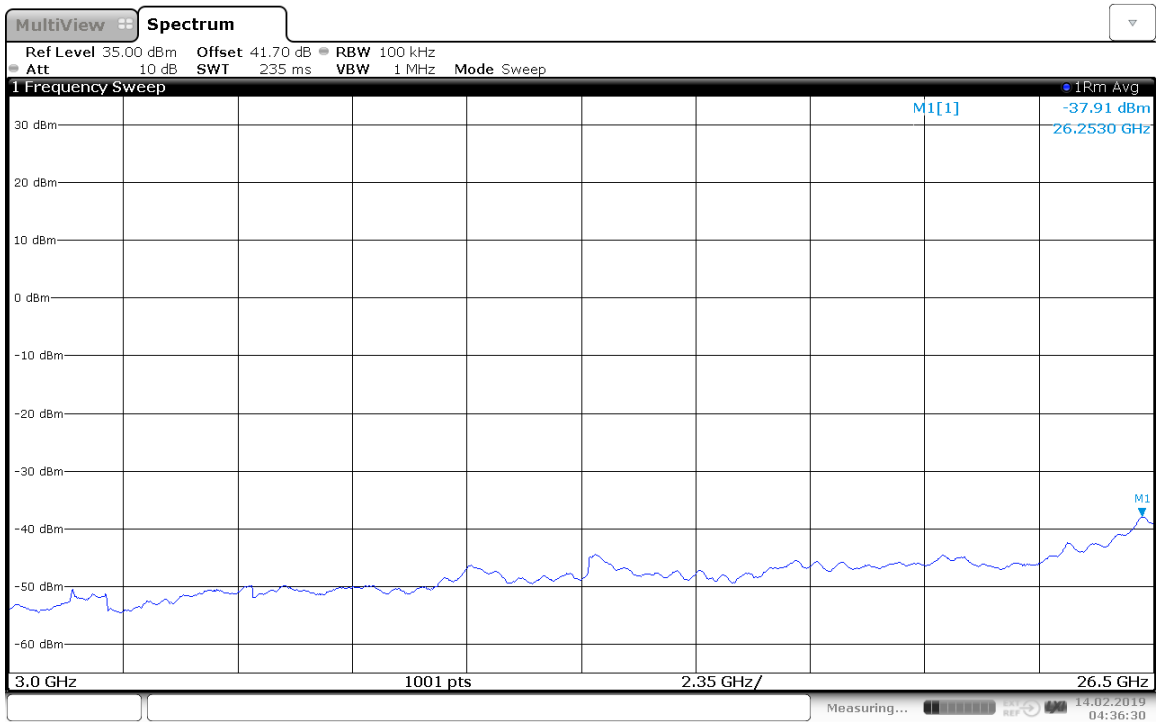
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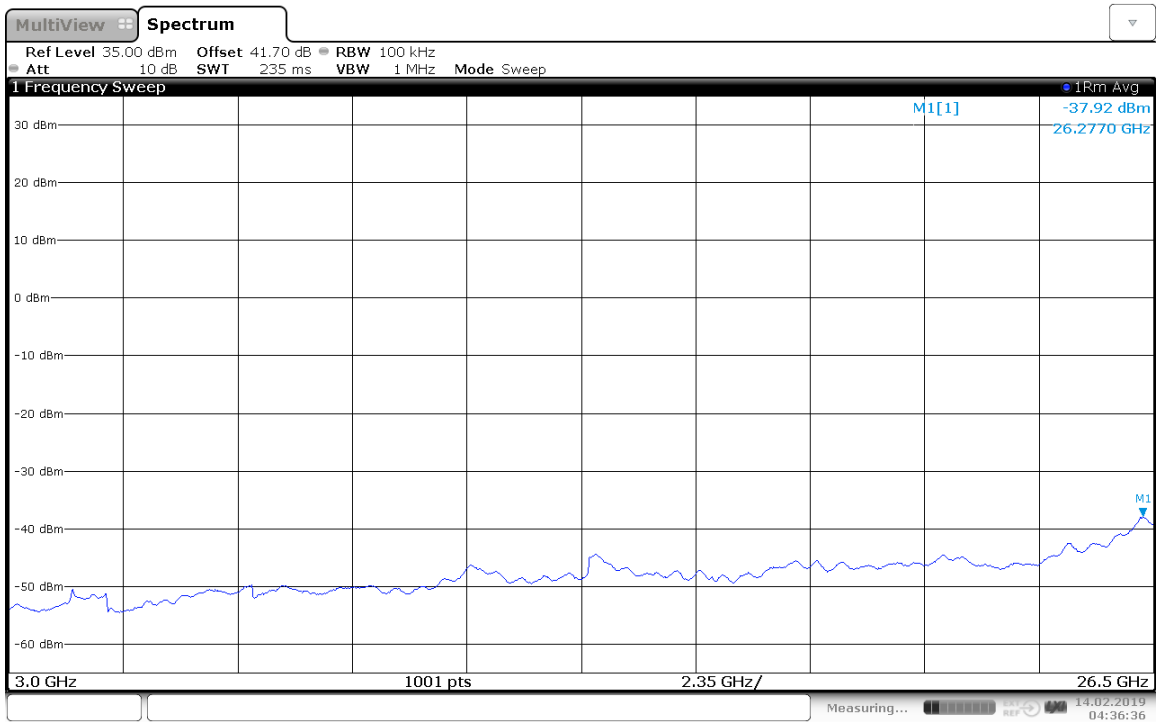
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04:36:24 14.02.2019

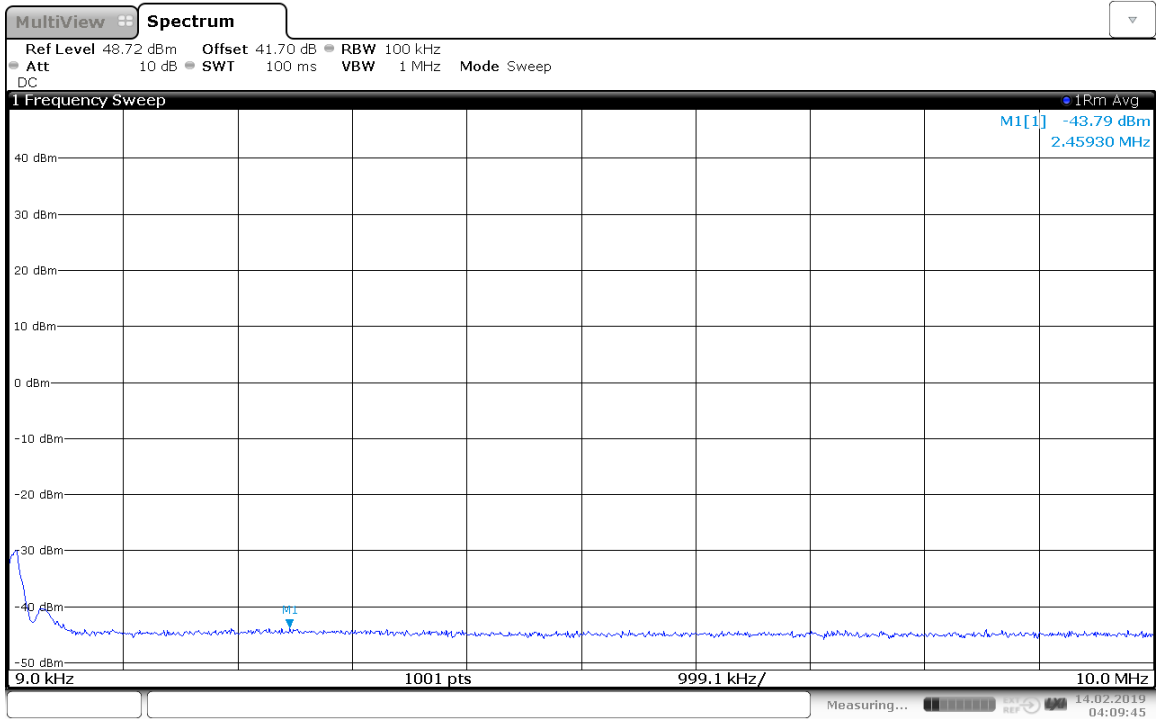


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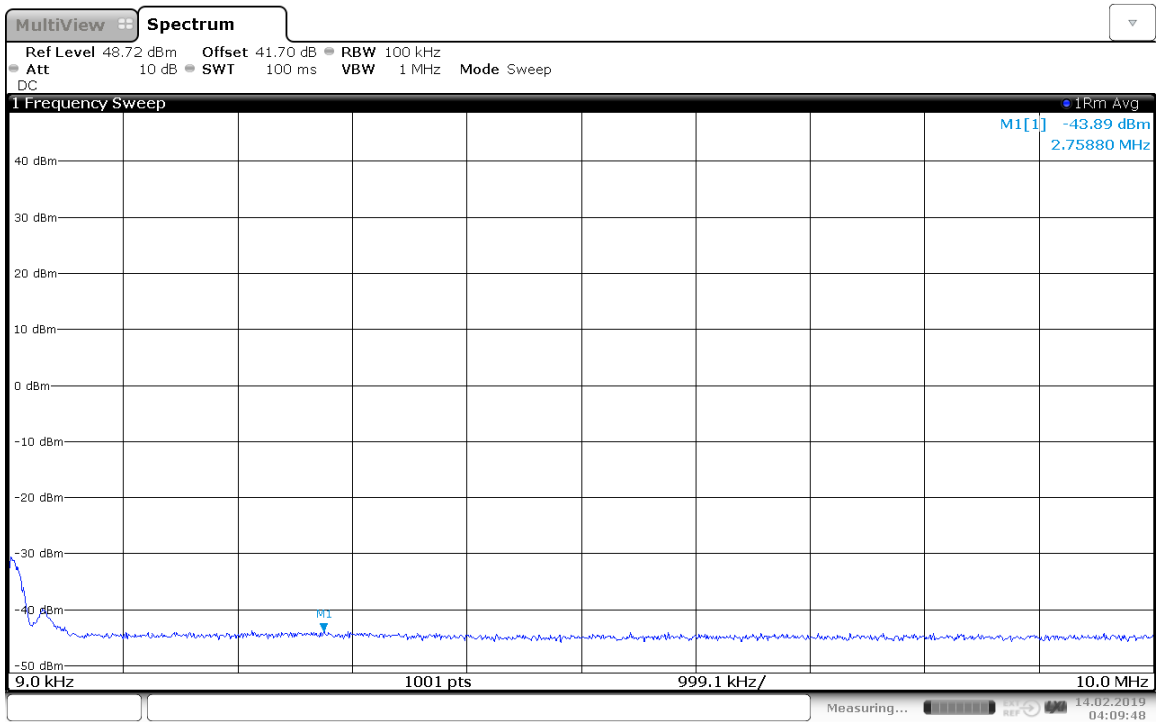


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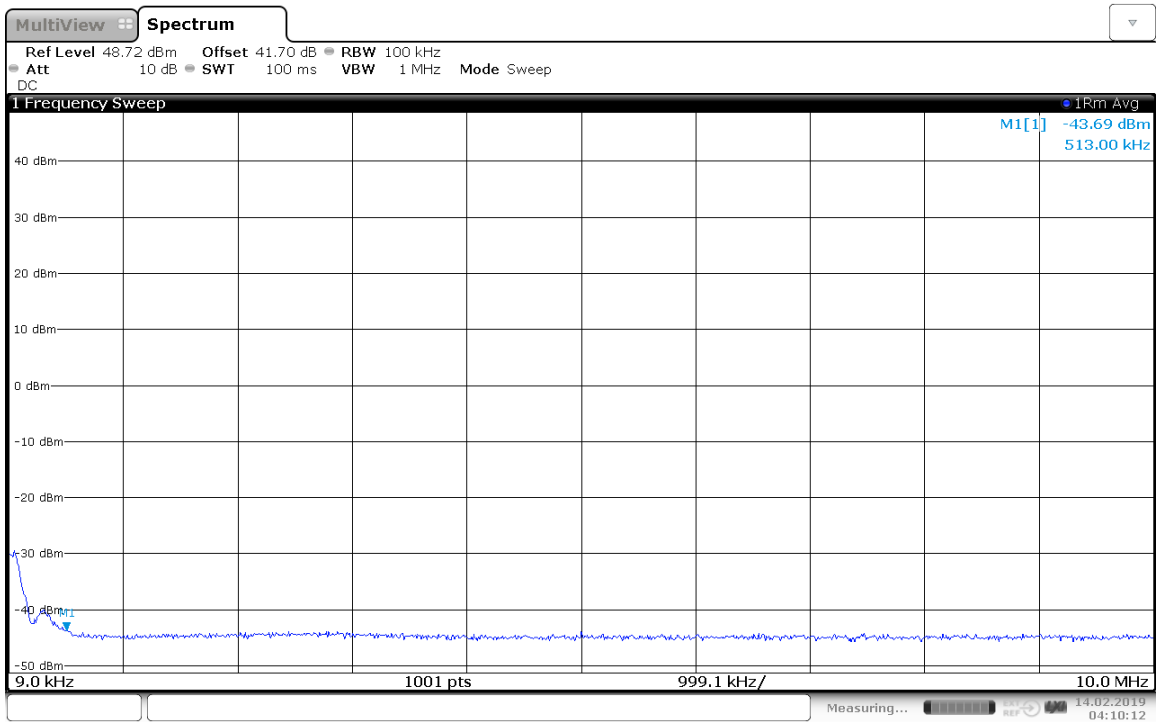
20M+20M-2132.5MHz-Port1~4:



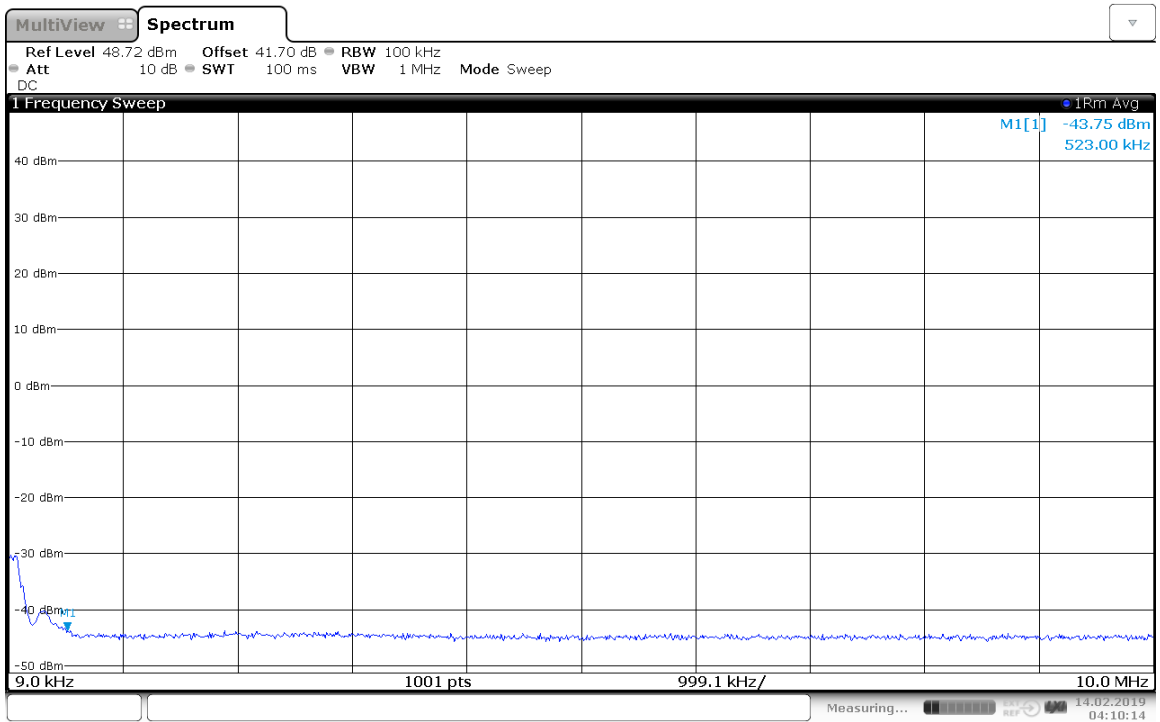
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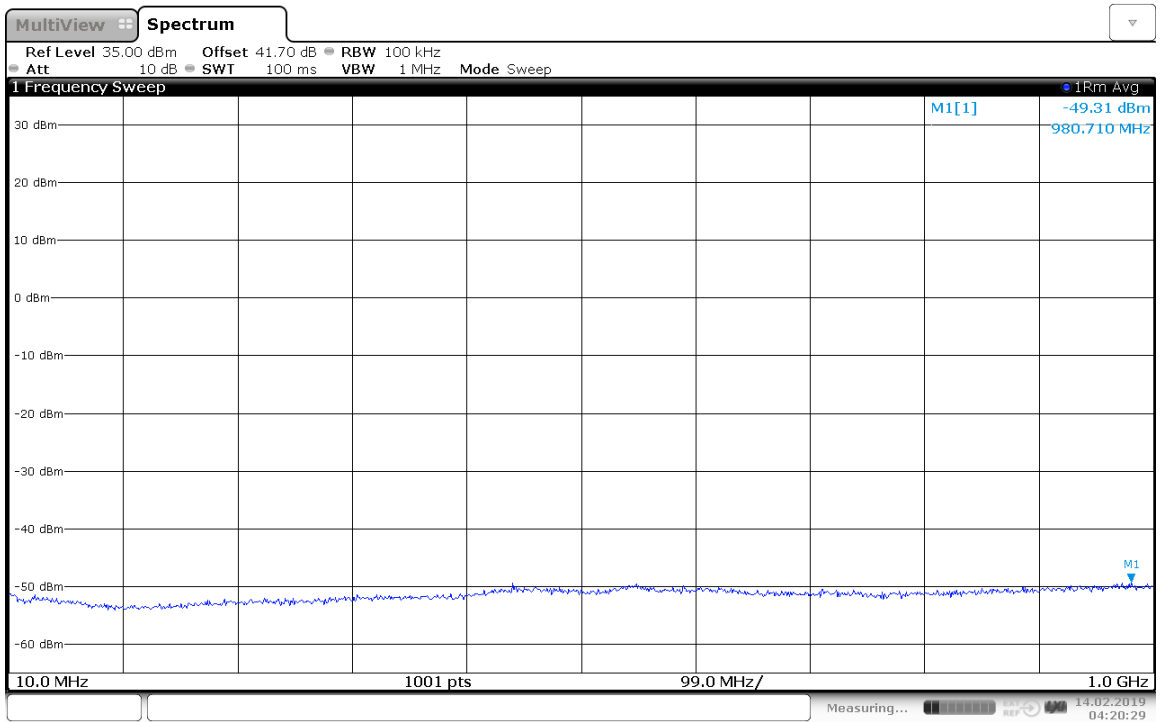
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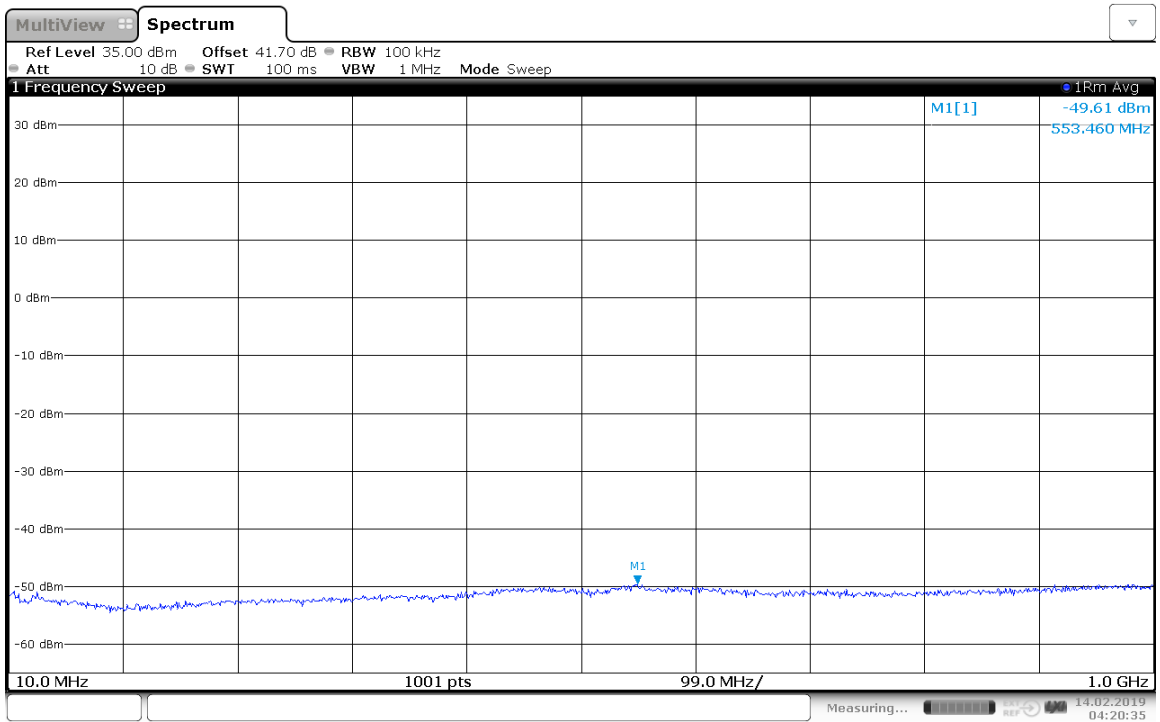
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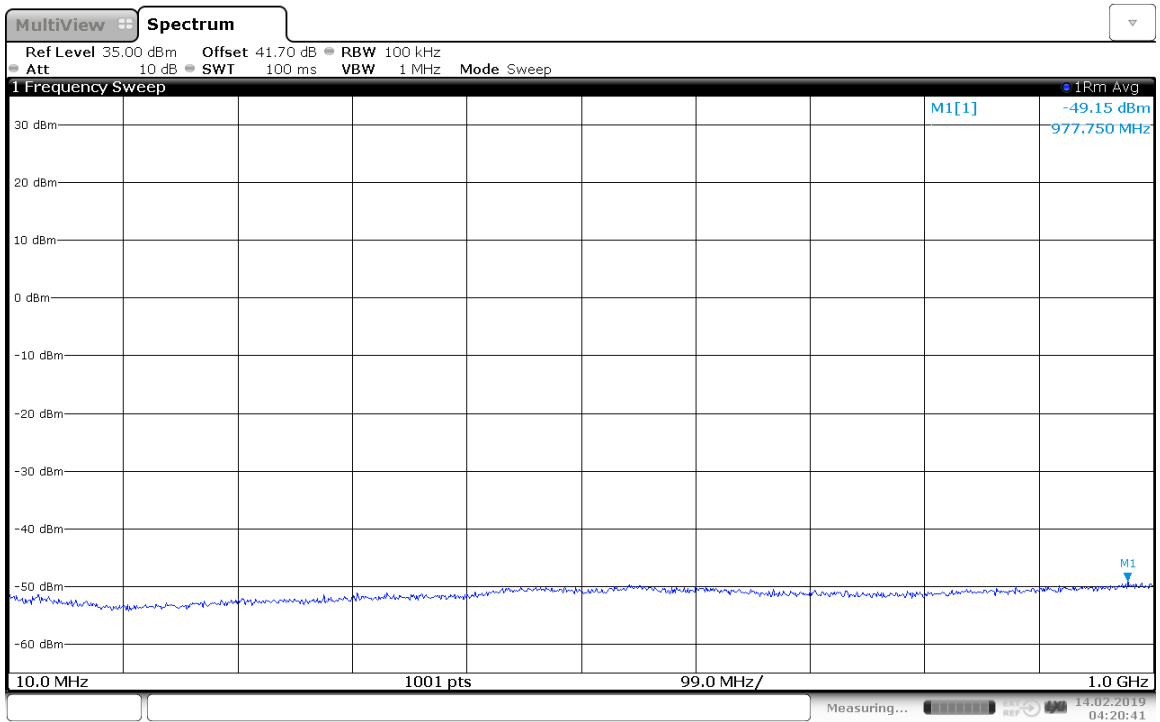
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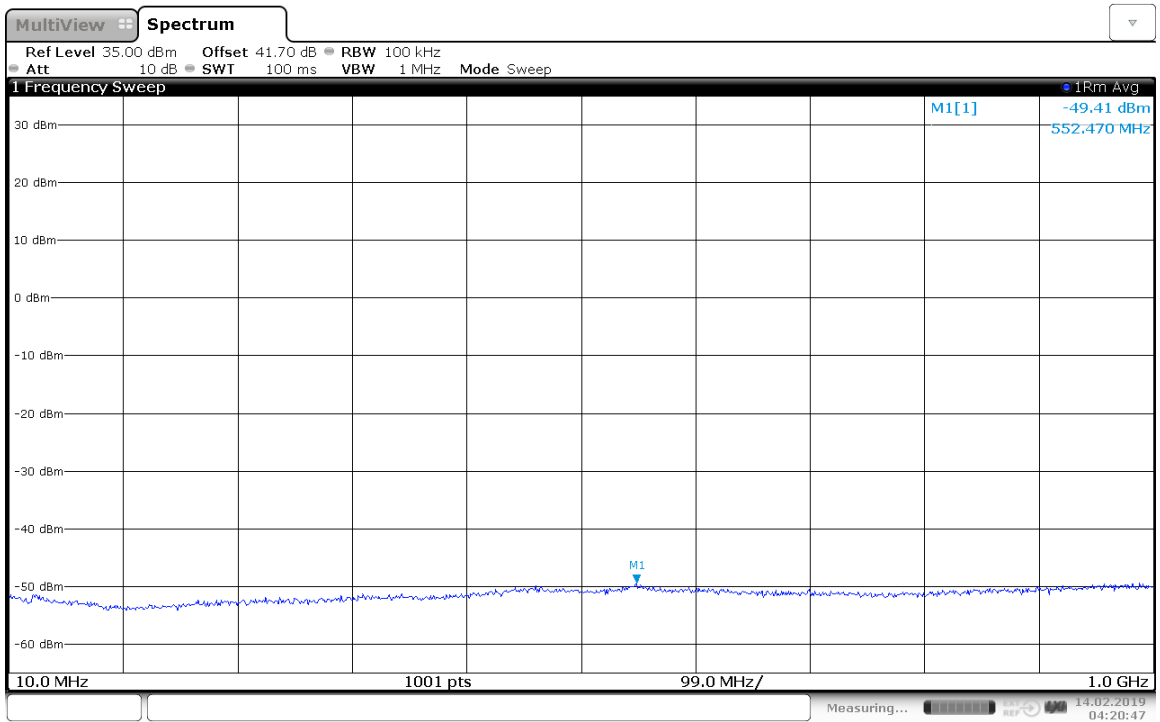
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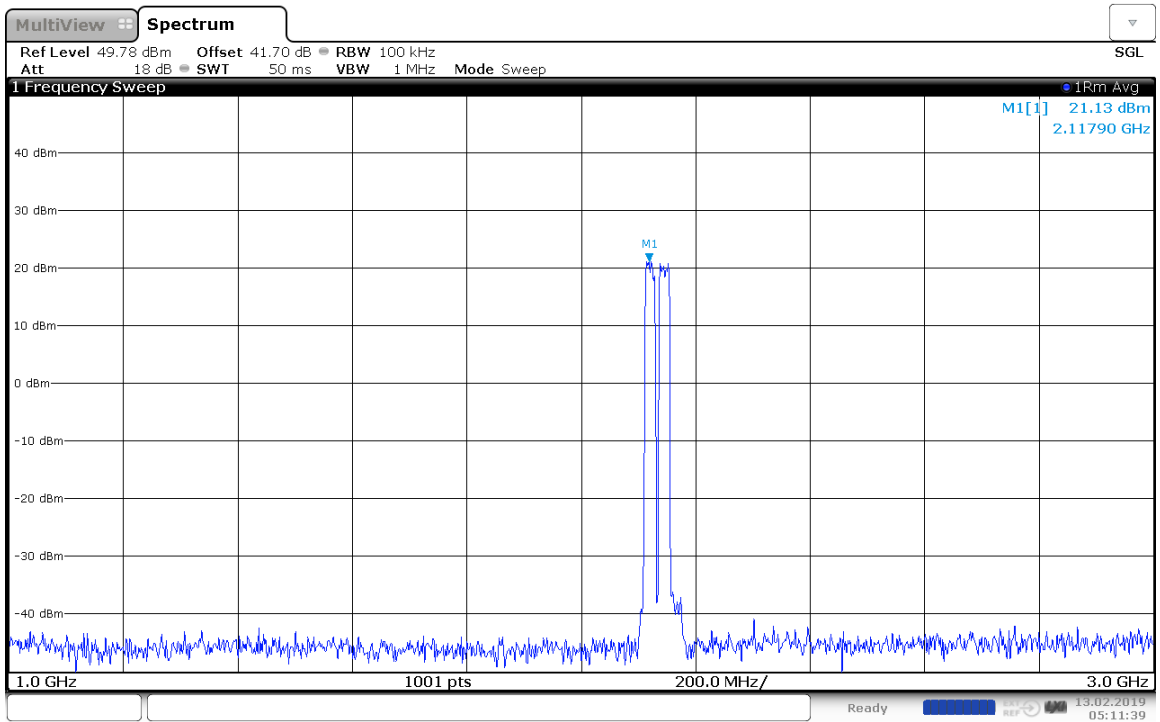
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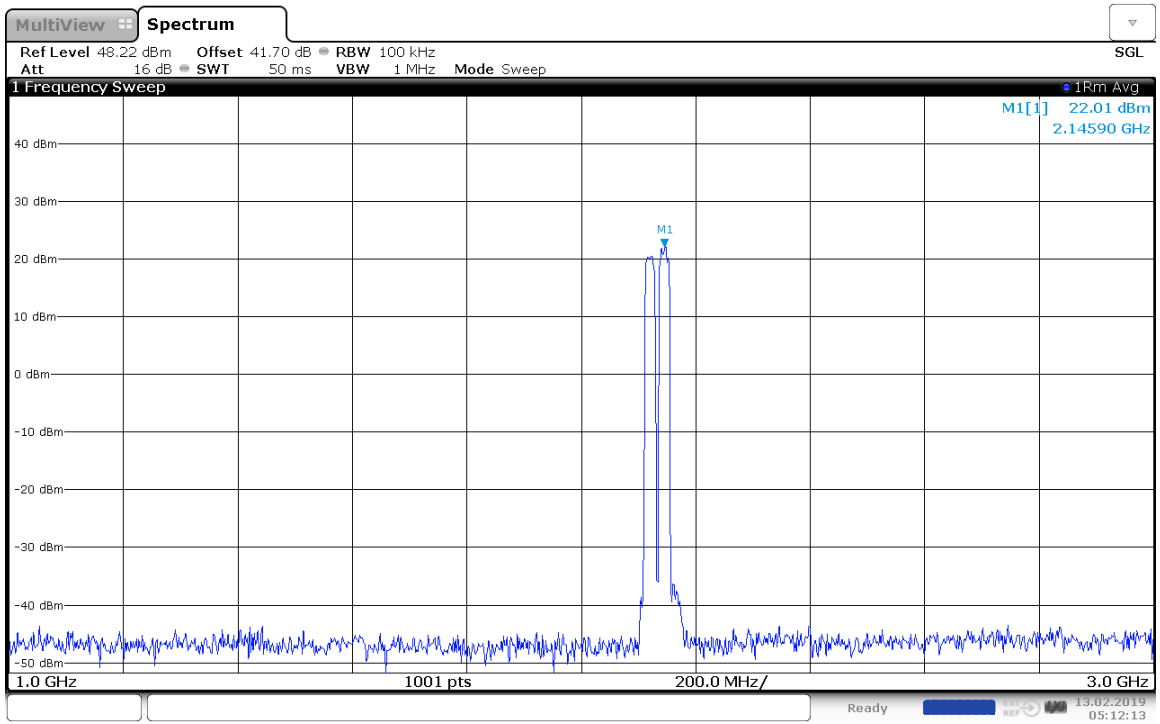
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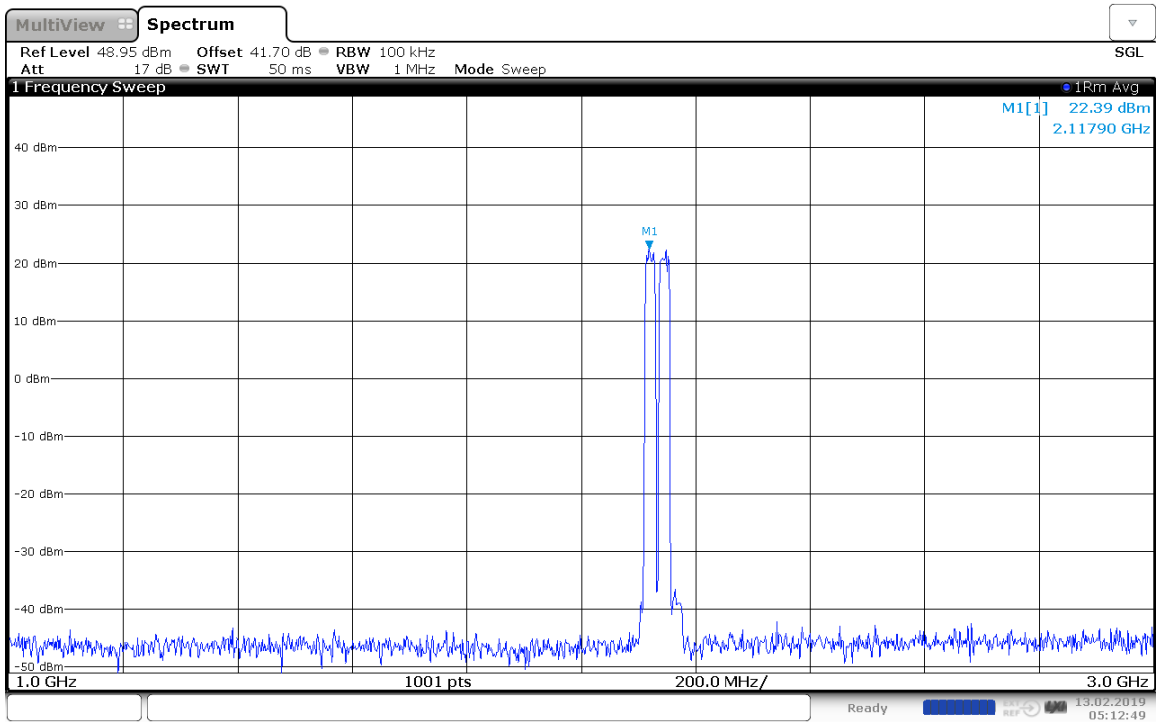
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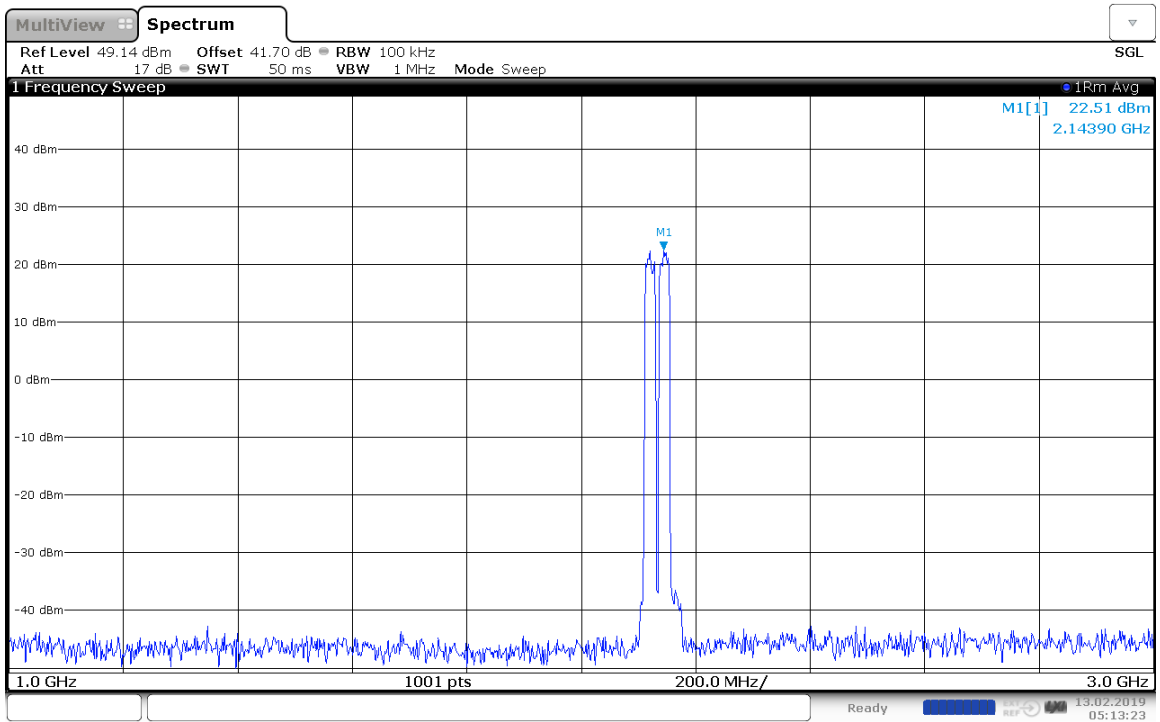
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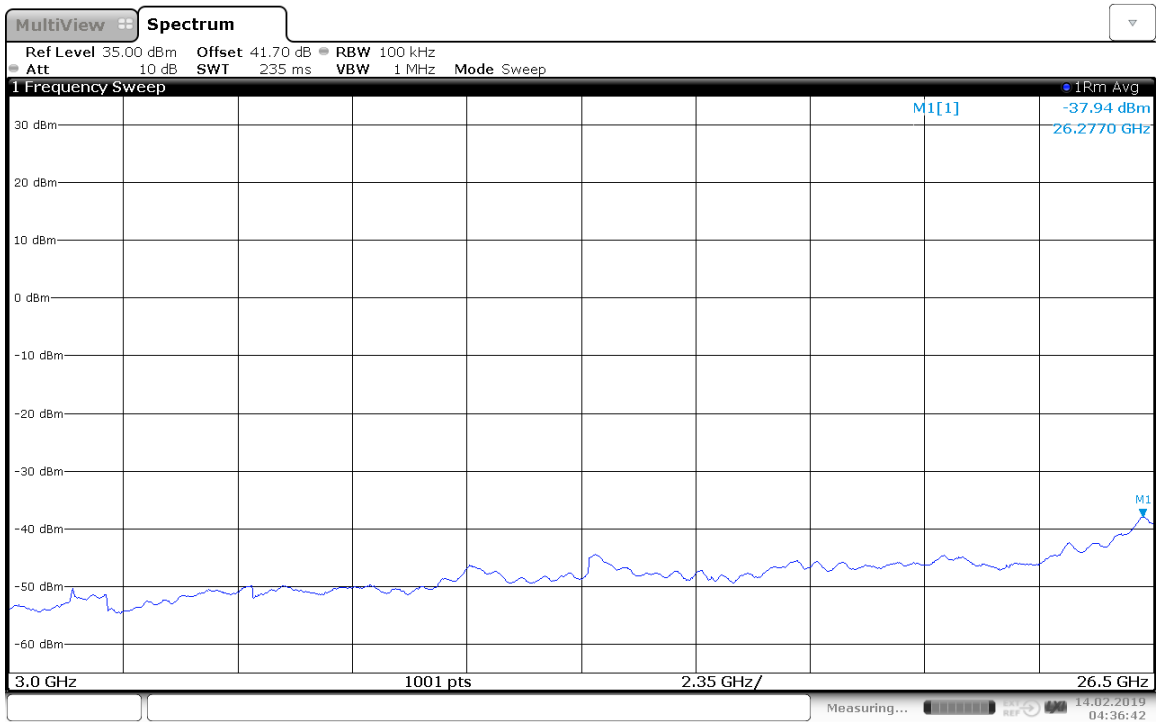
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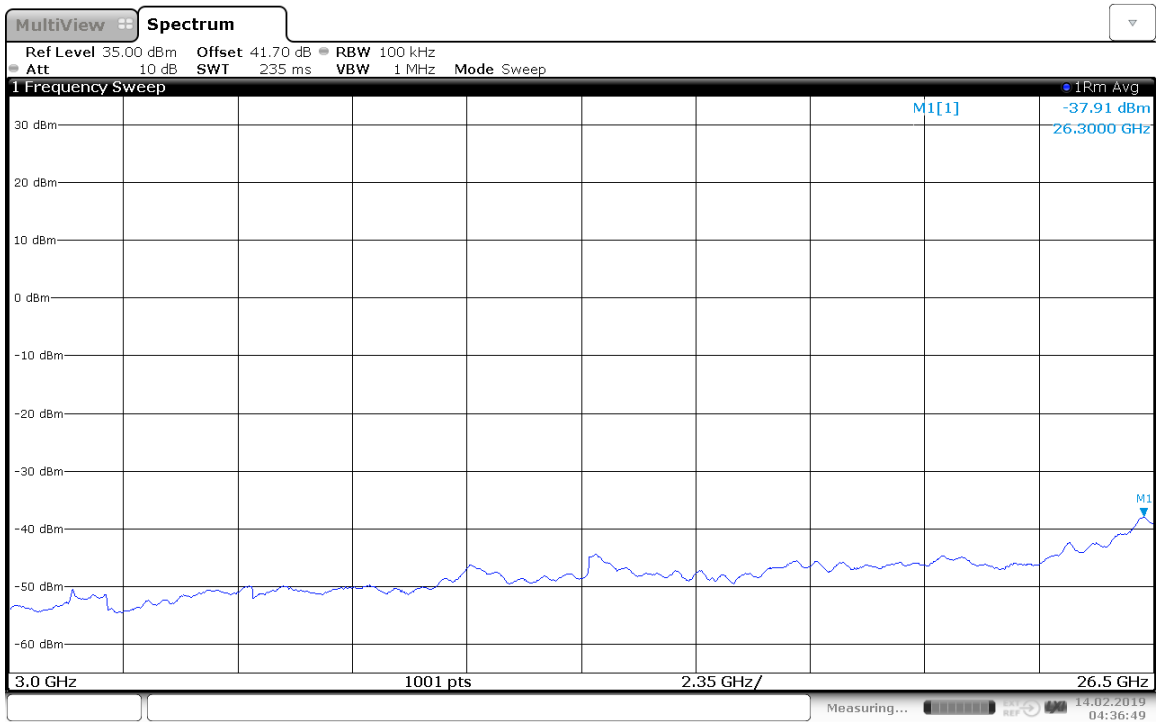
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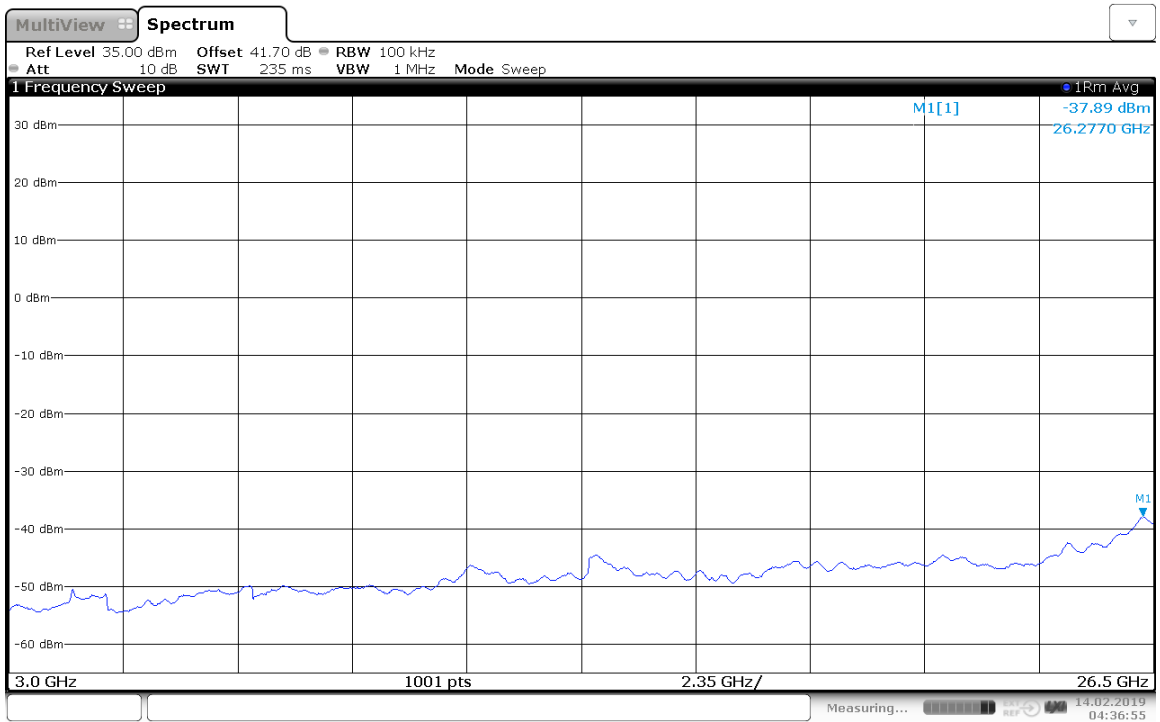
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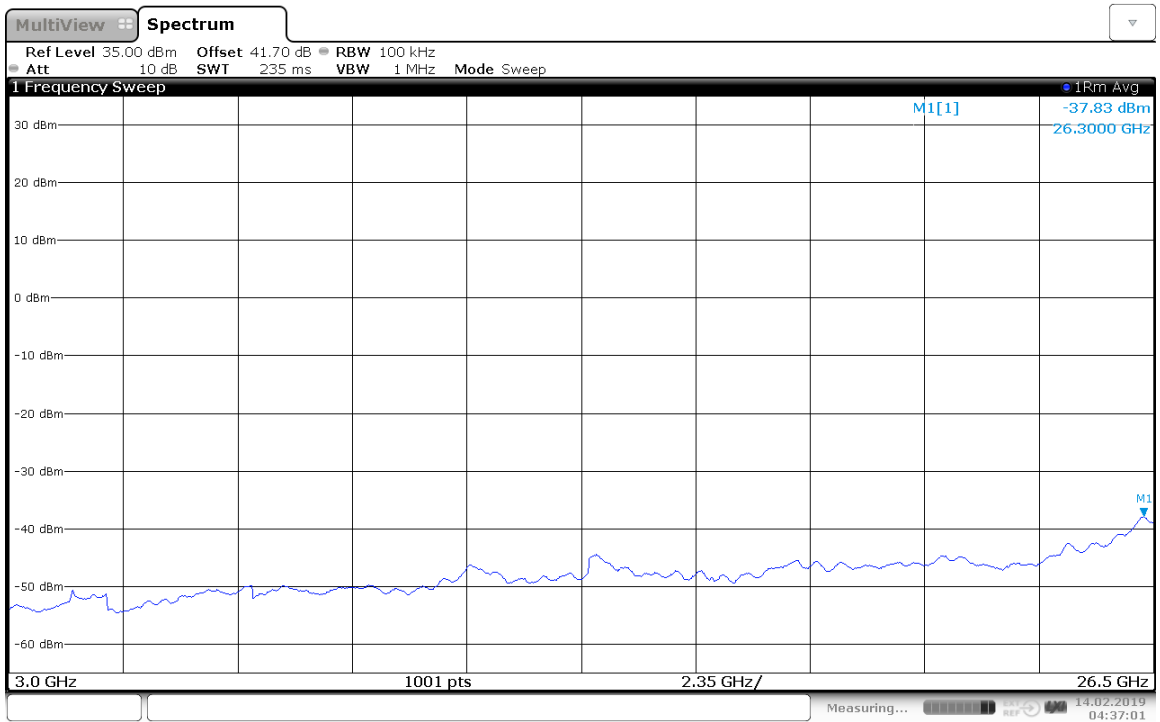
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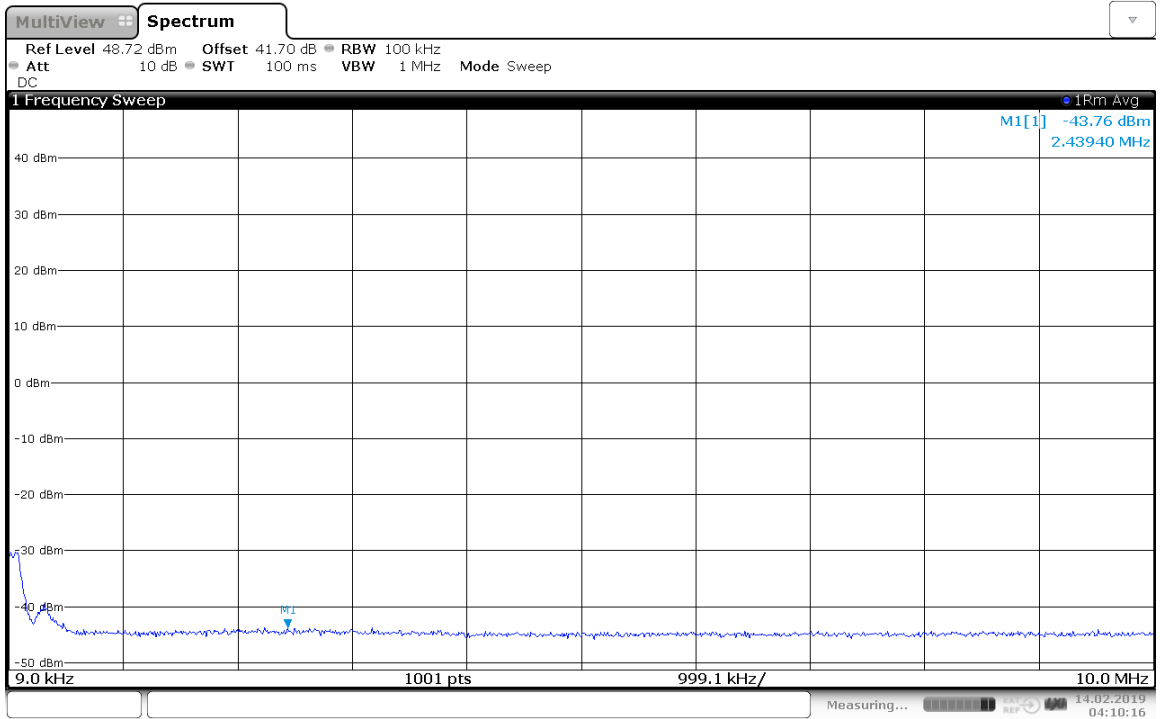


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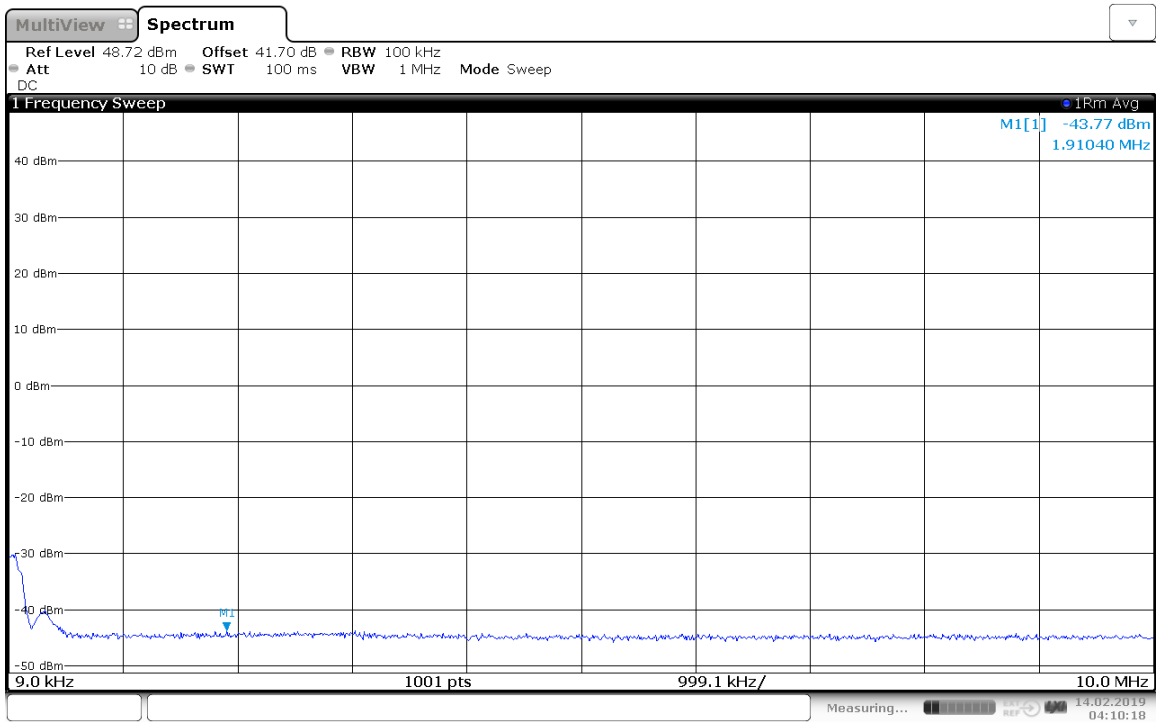


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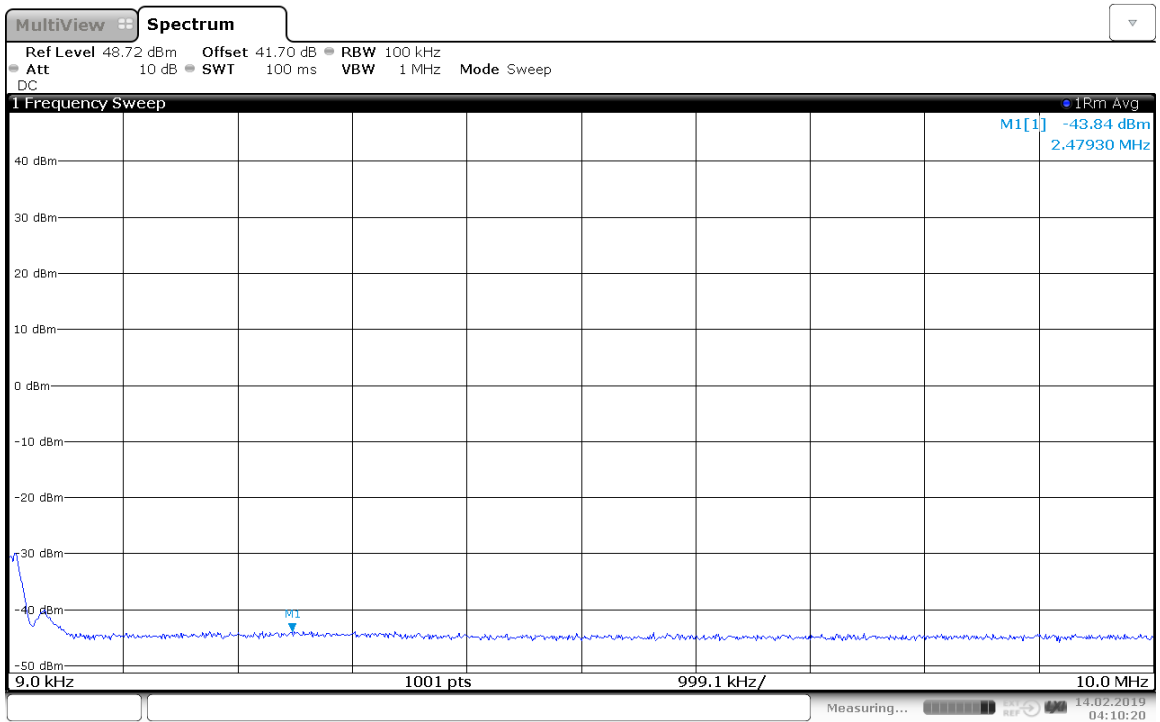
20M+20M-2140MHz-Port1~4:



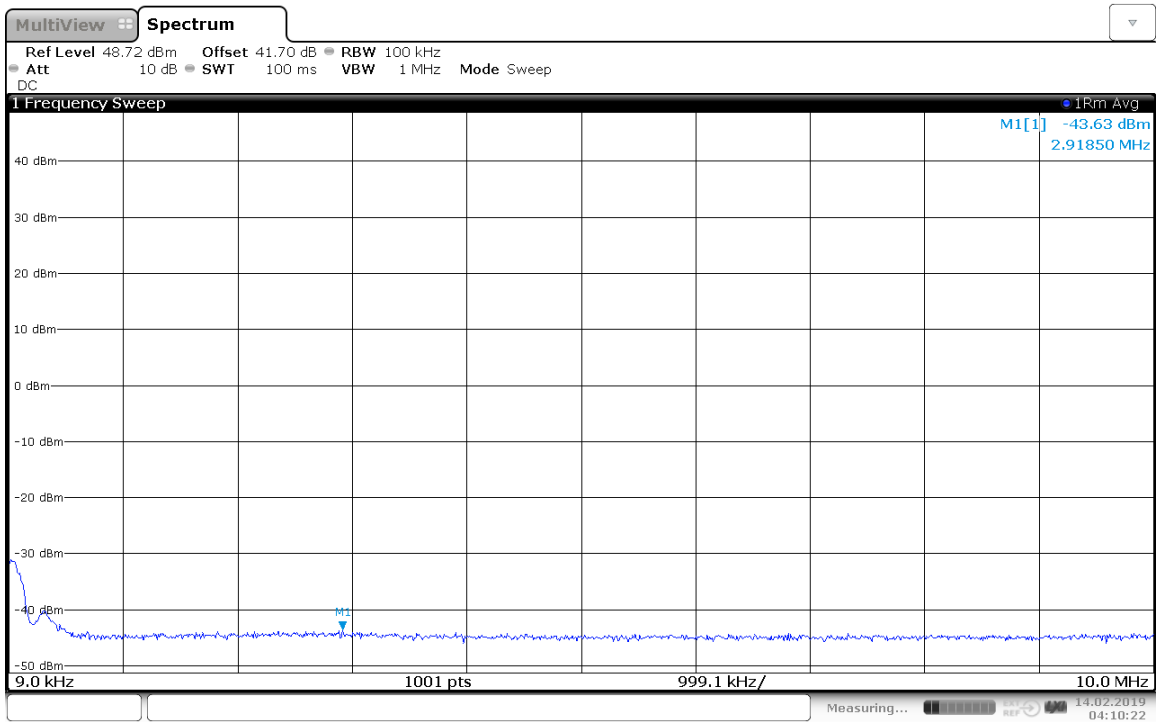
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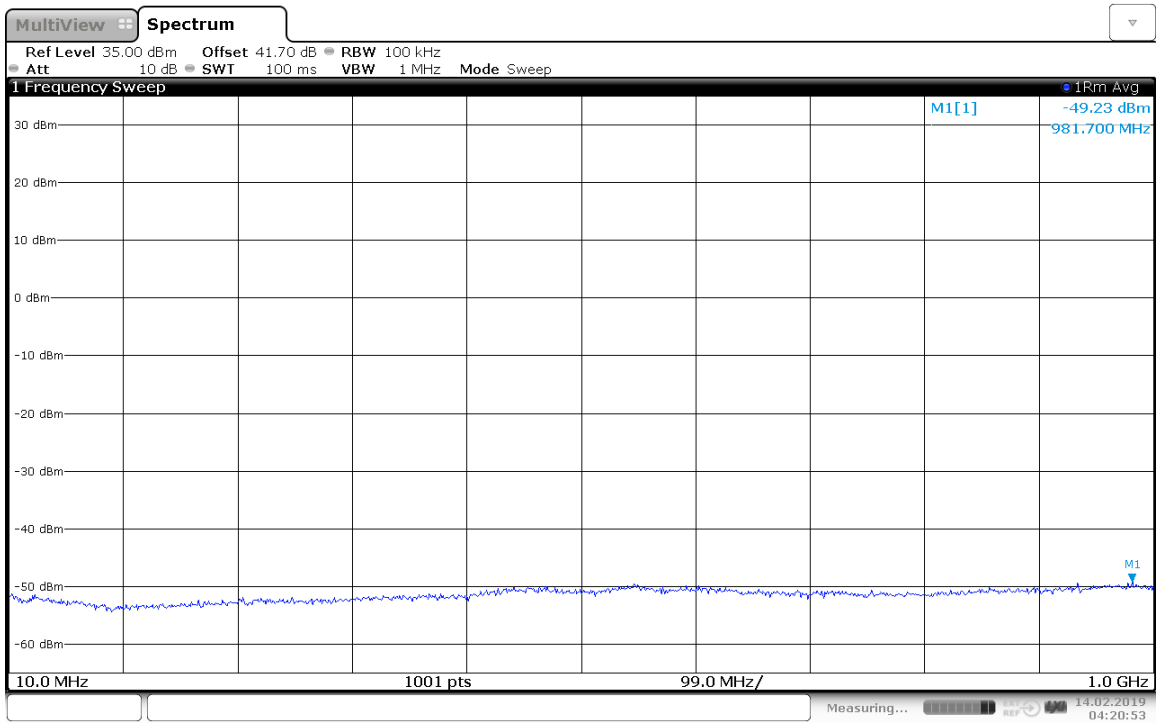
04:10:19 14.02.2019



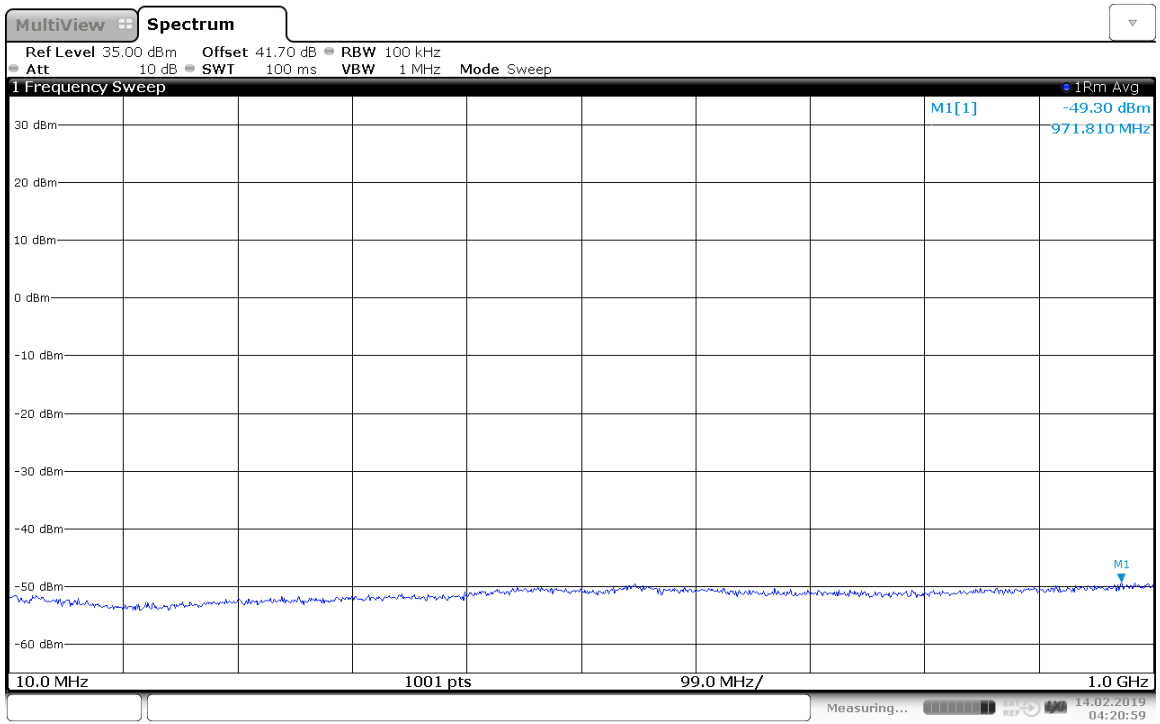
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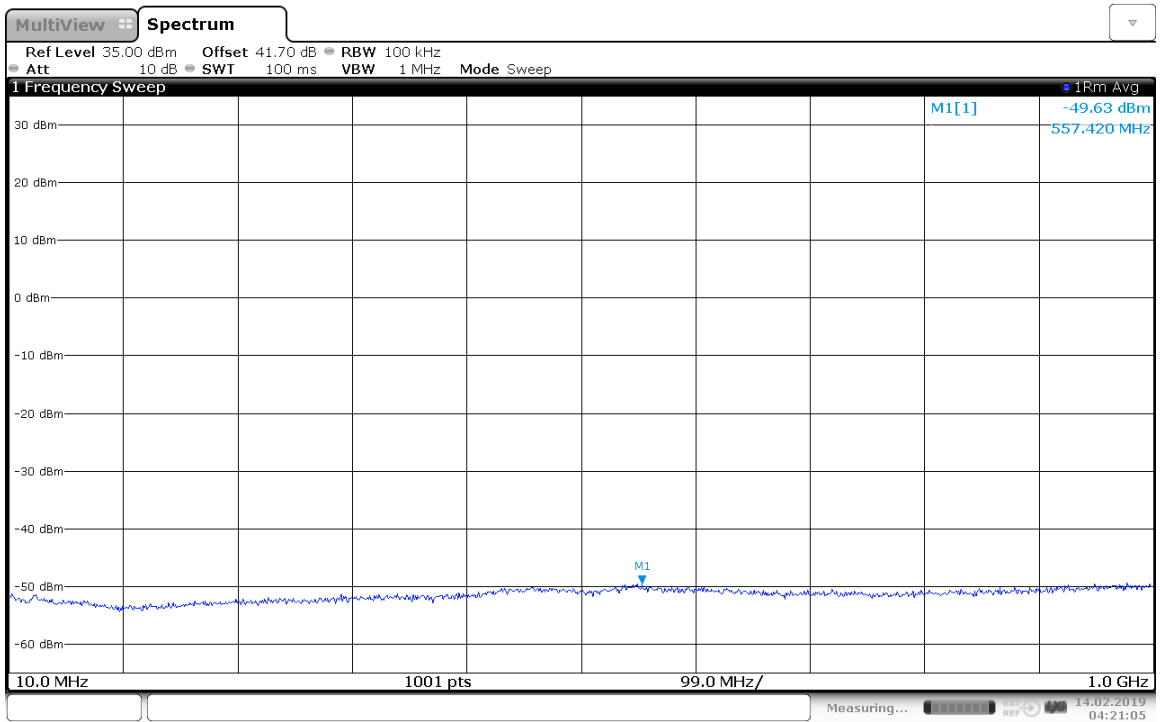
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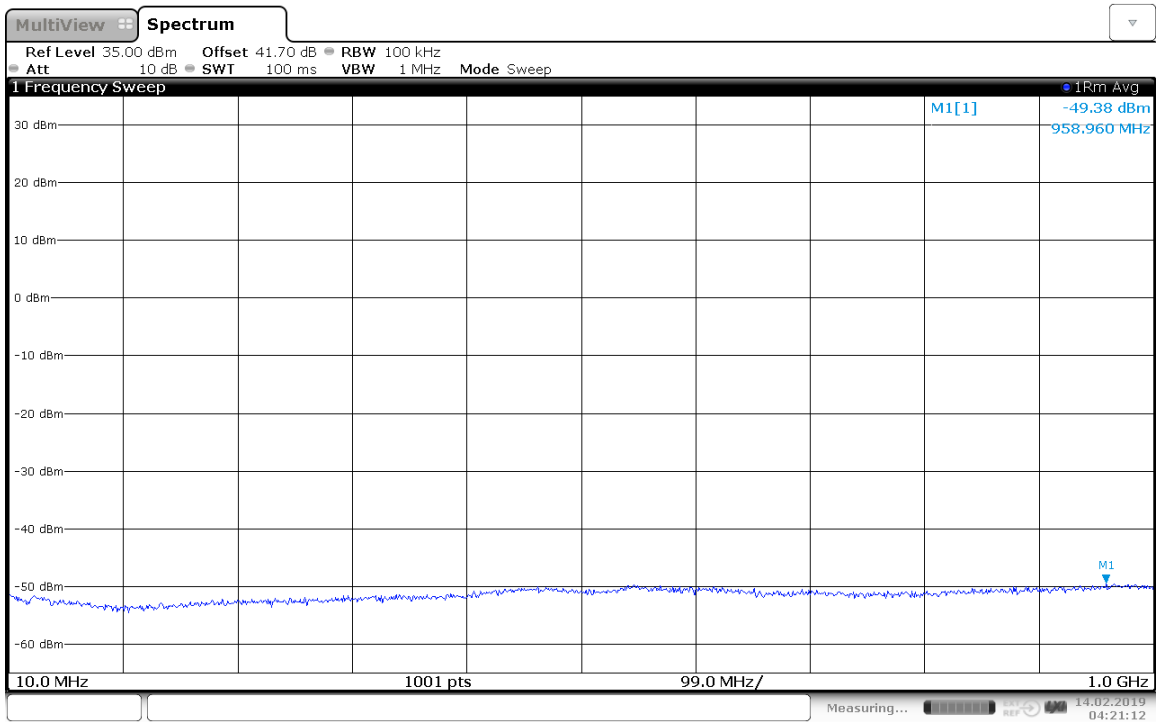
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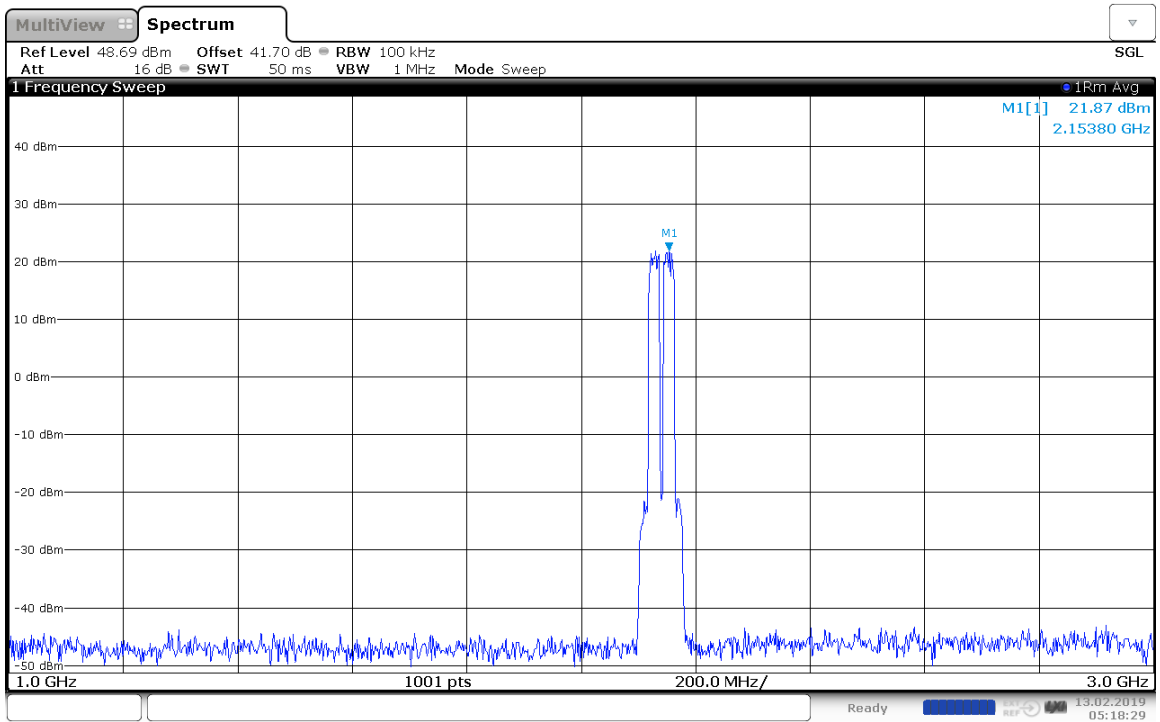
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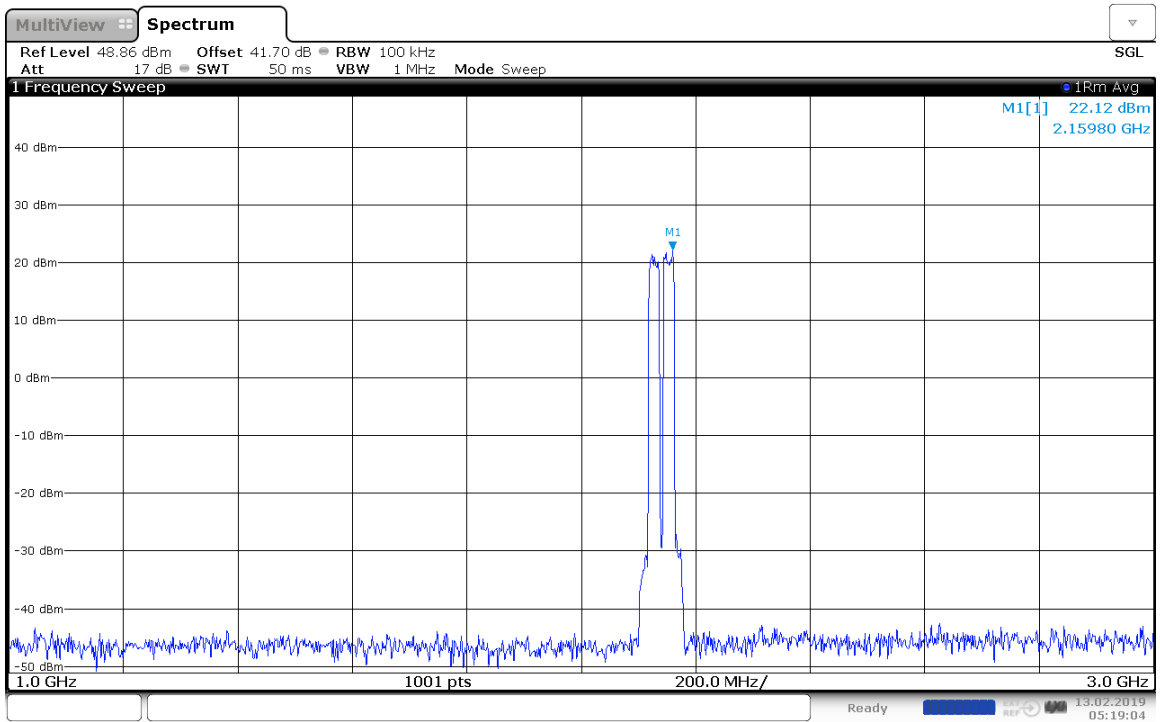
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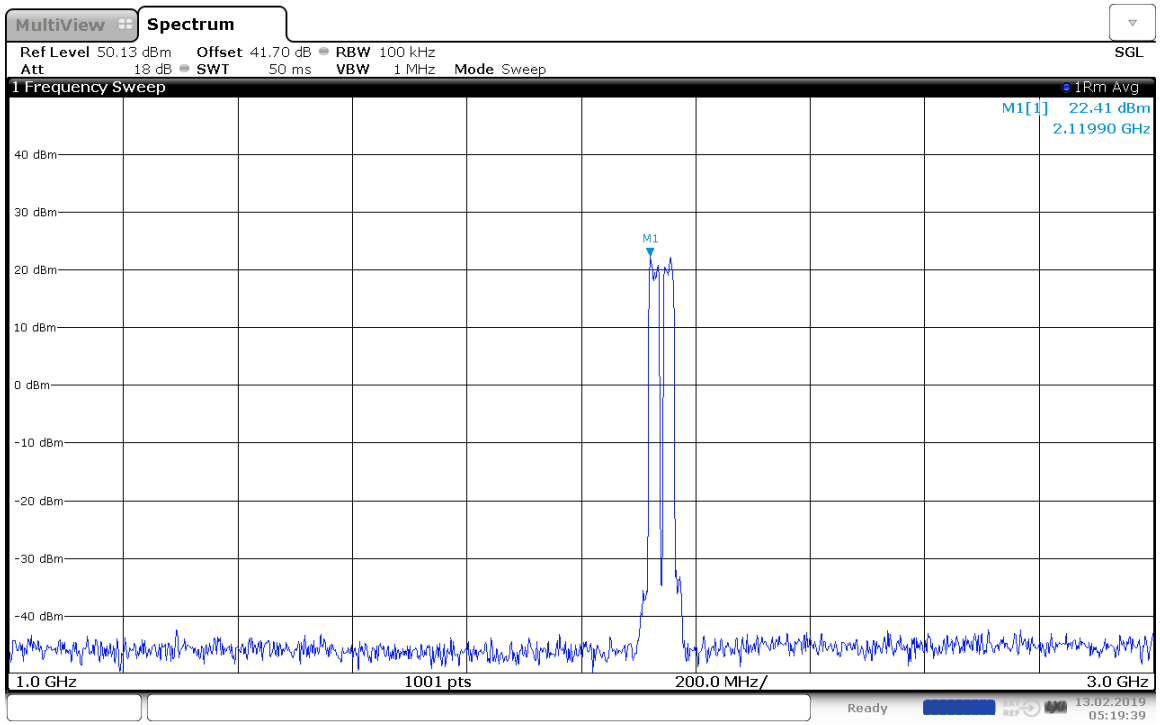
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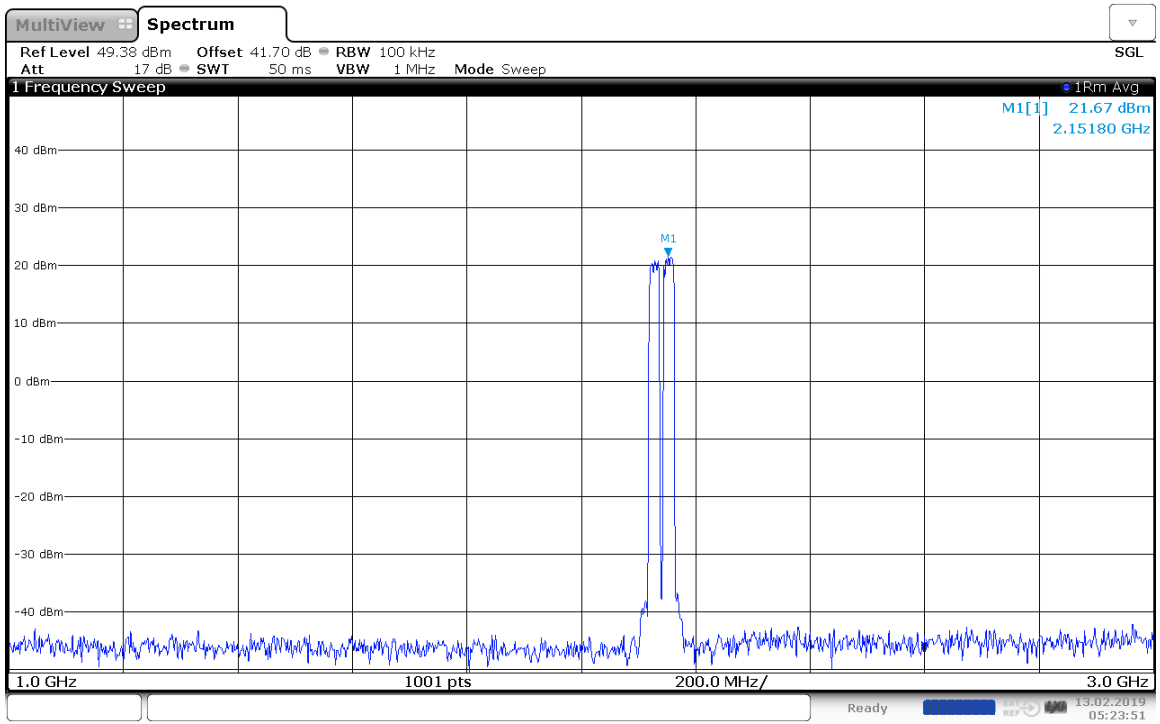
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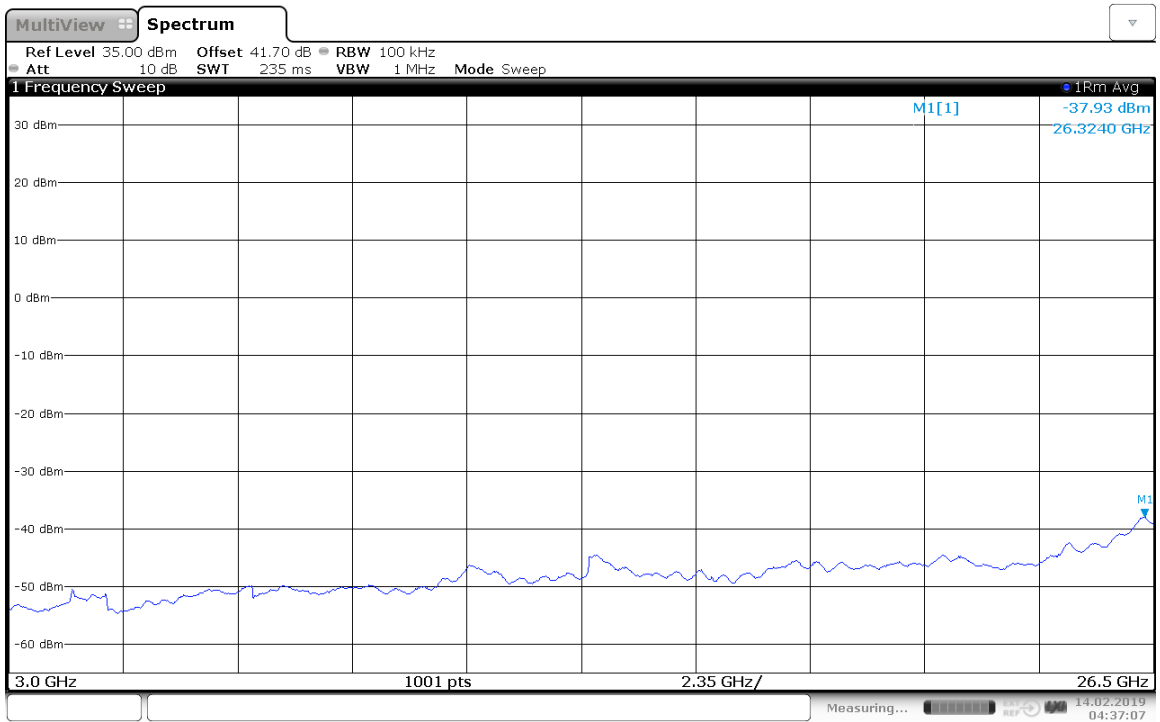
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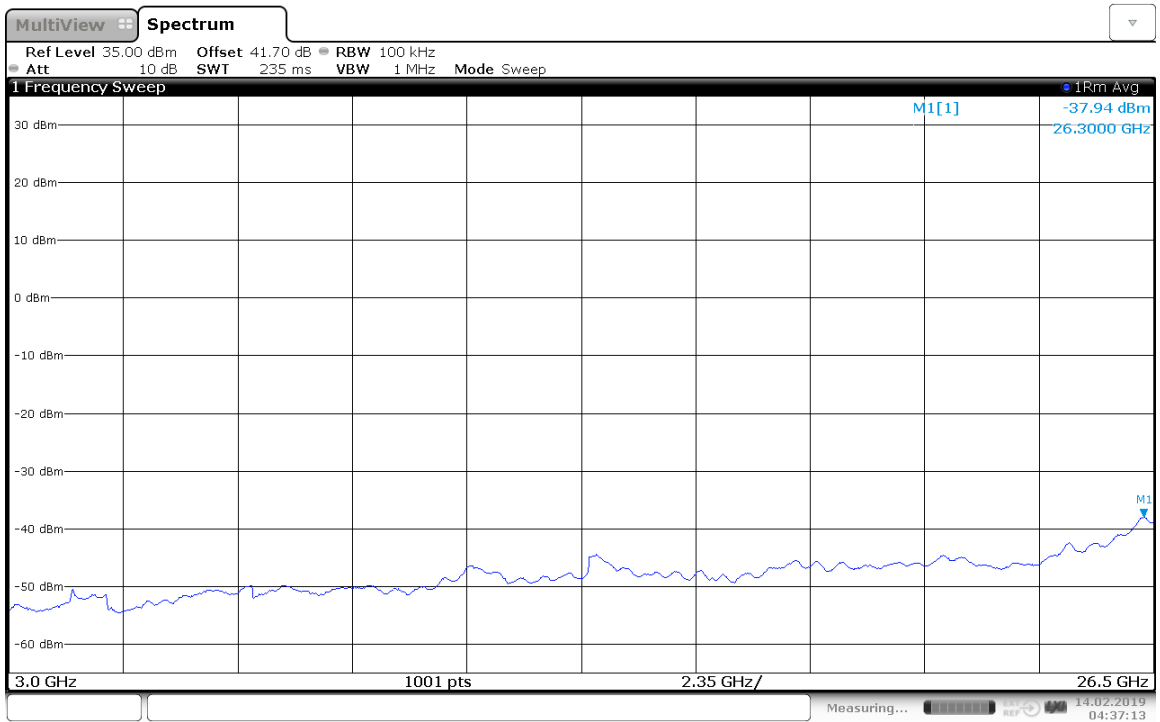
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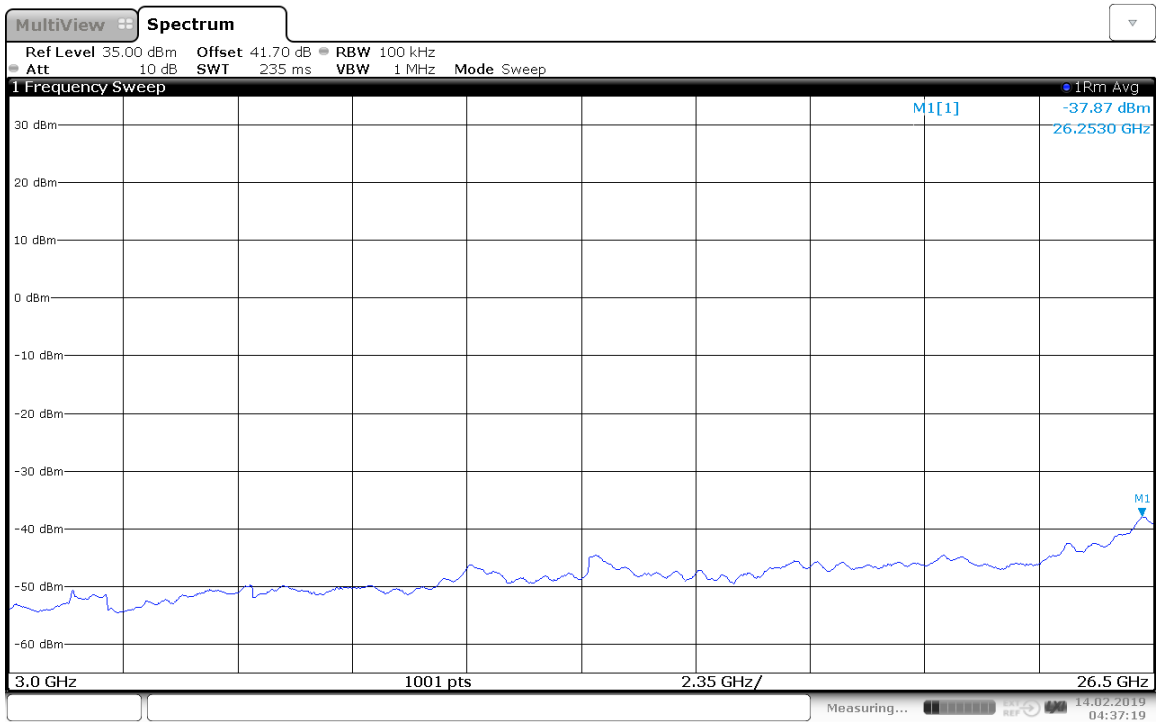
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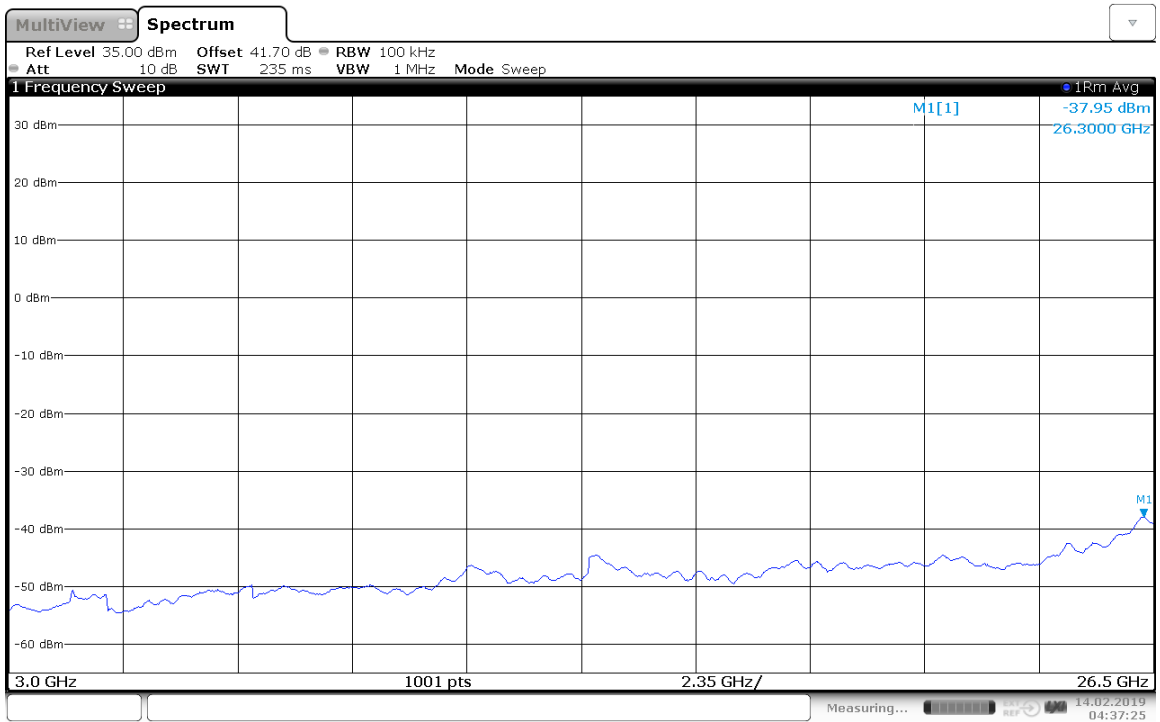
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04:37:13 14.02.2019

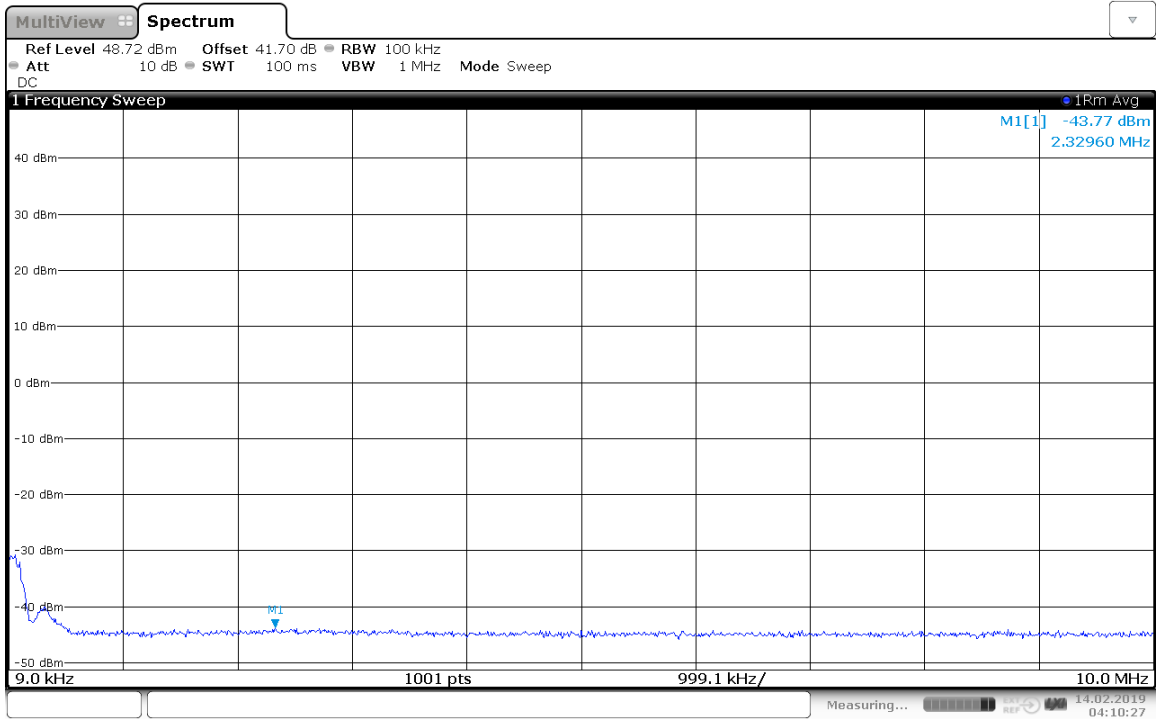


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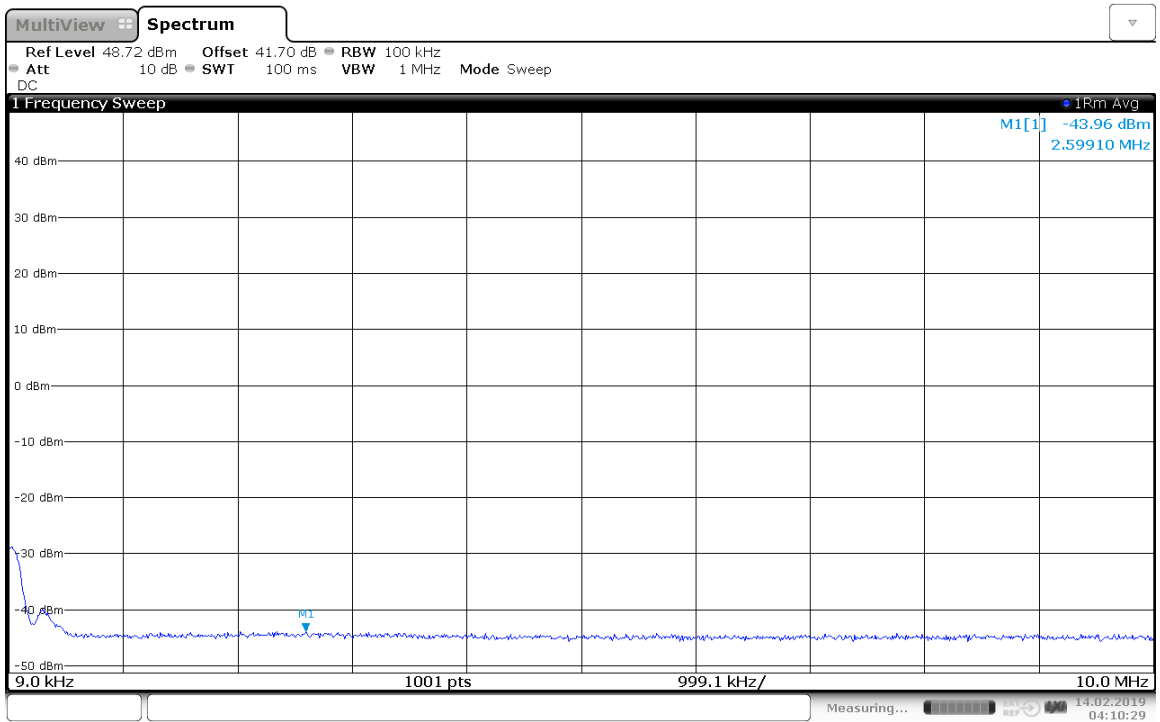


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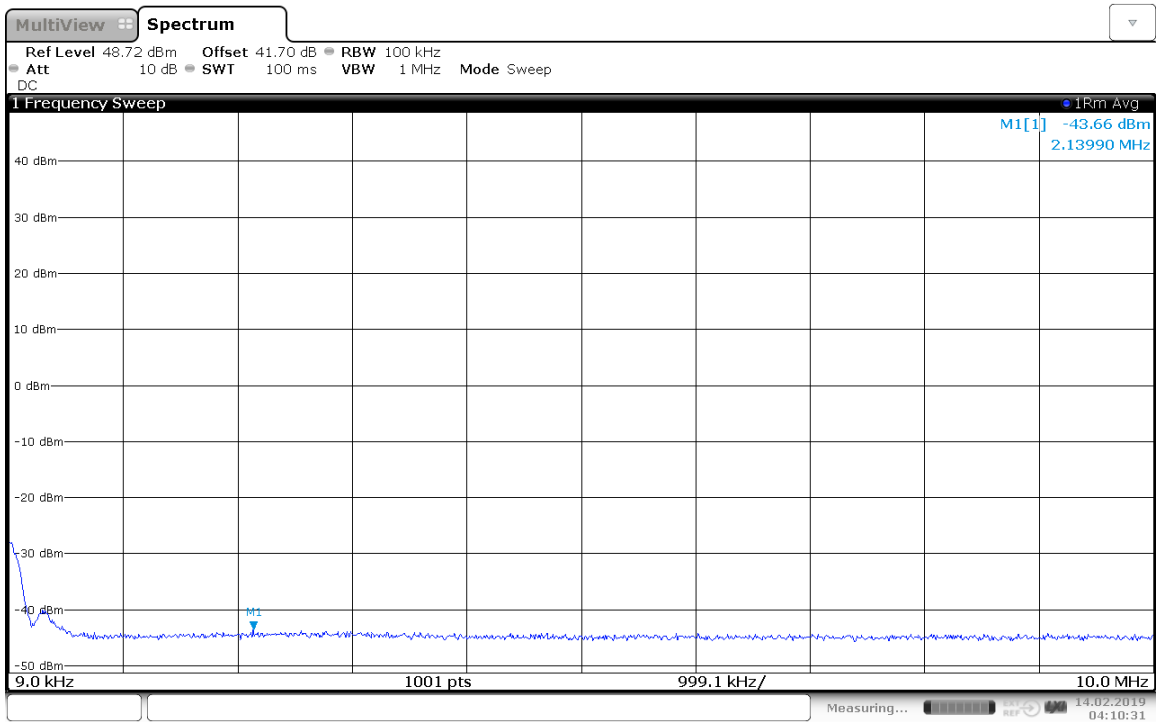
20M+20M-2147.5MHz-Port1~4:



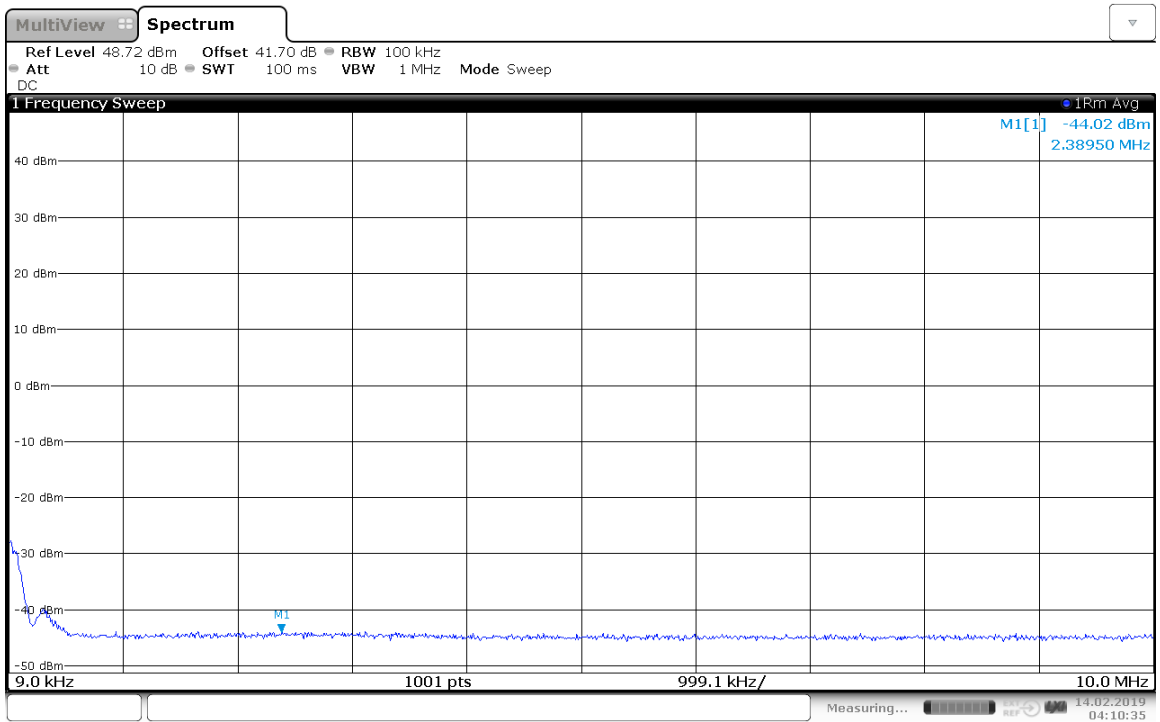
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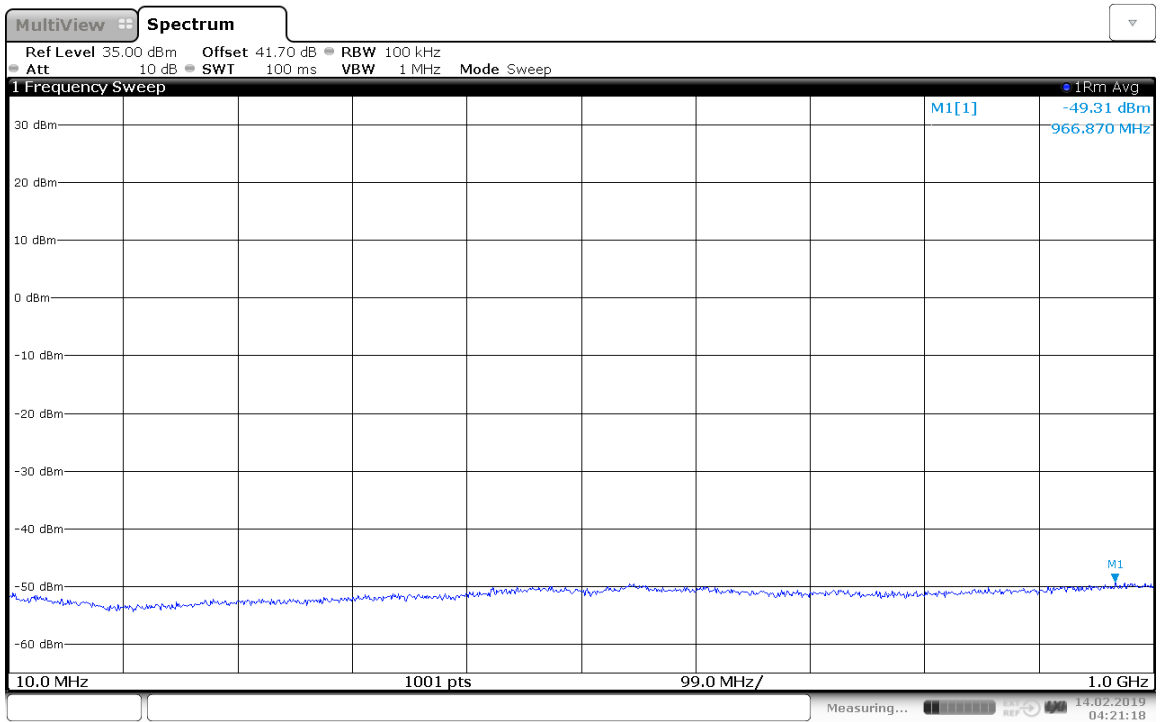
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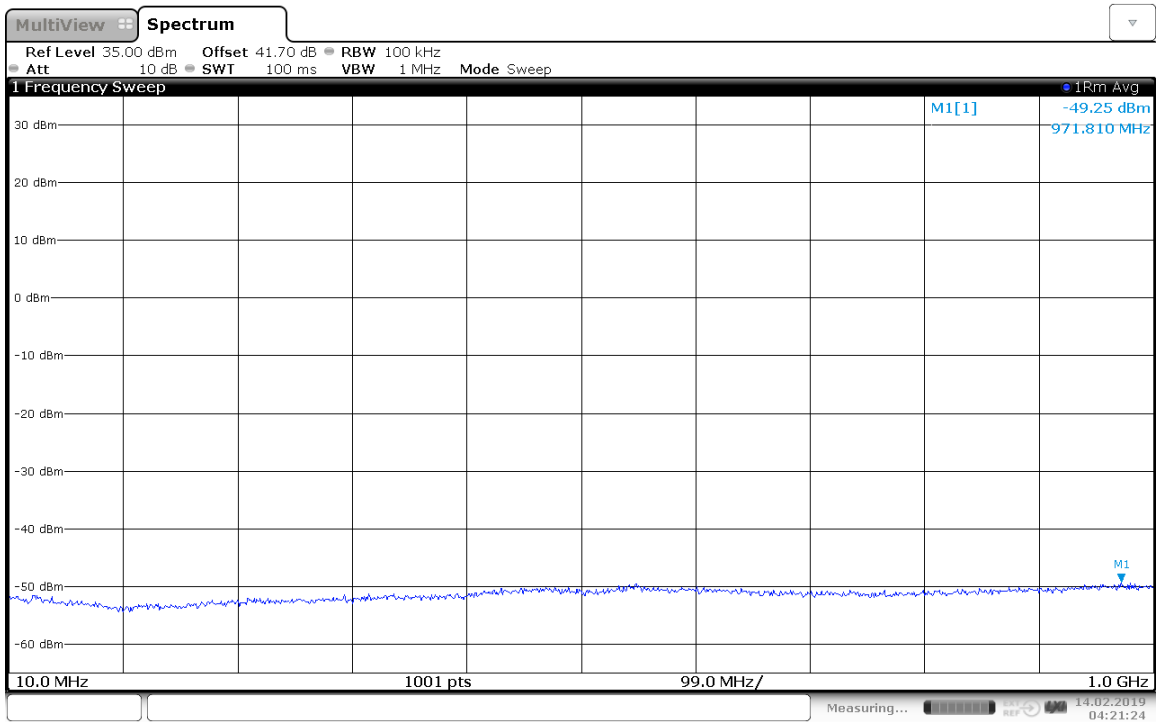
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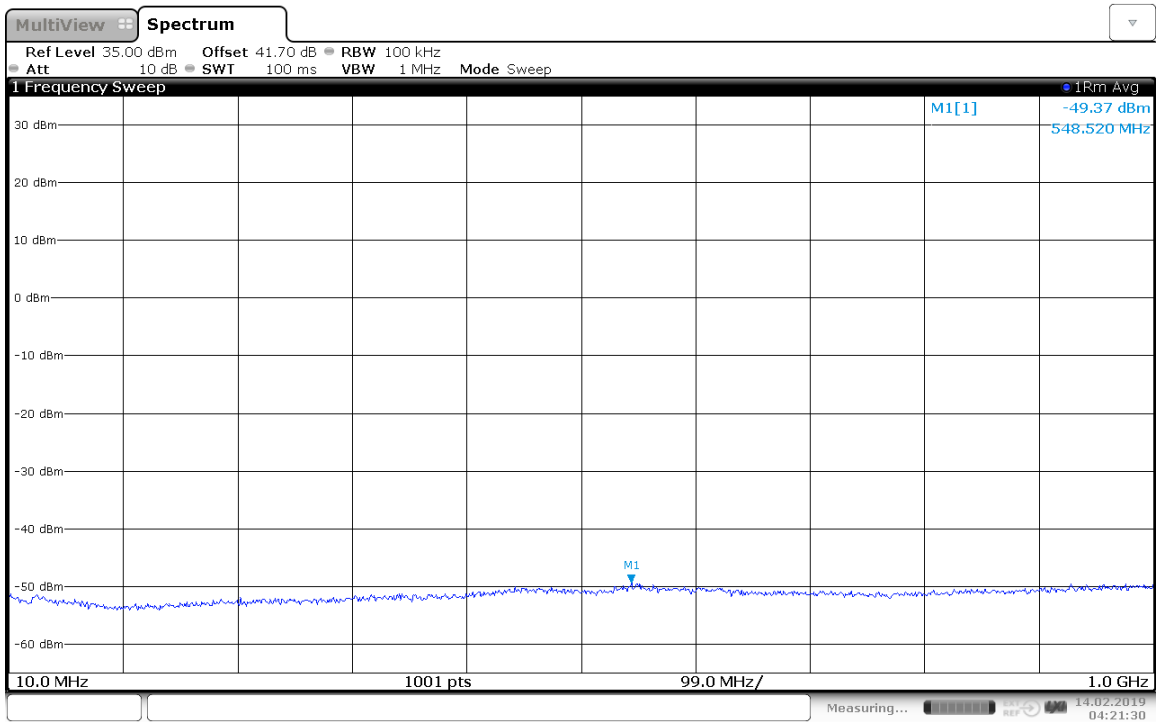
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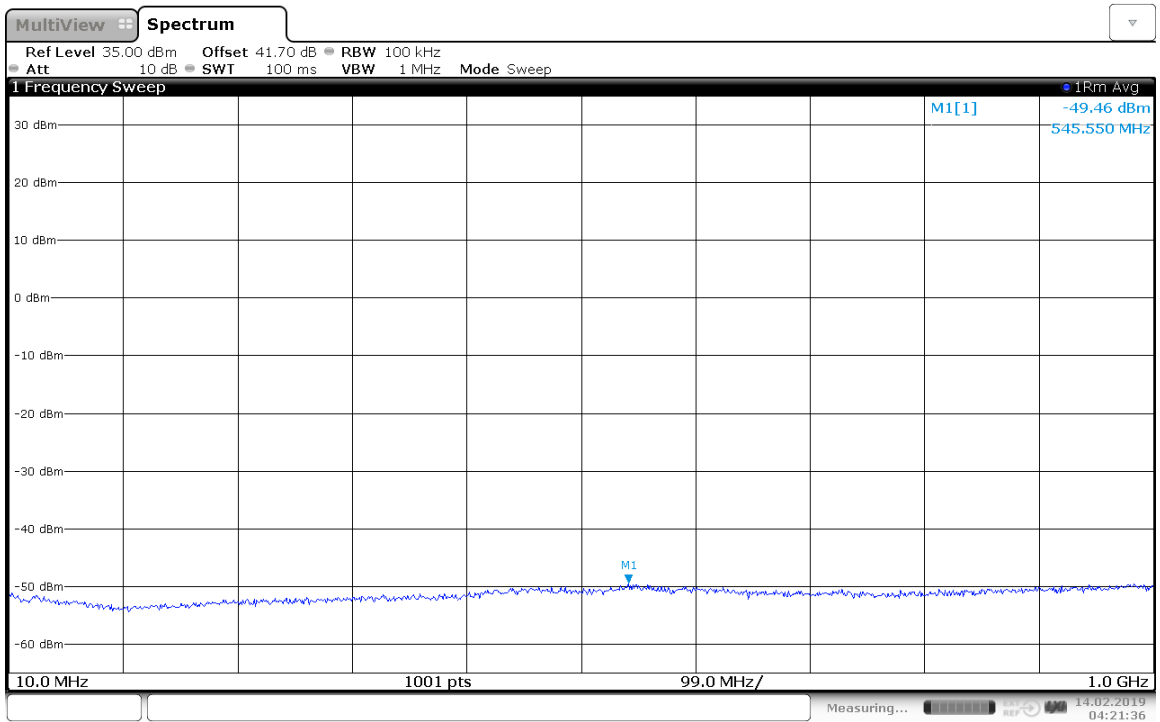
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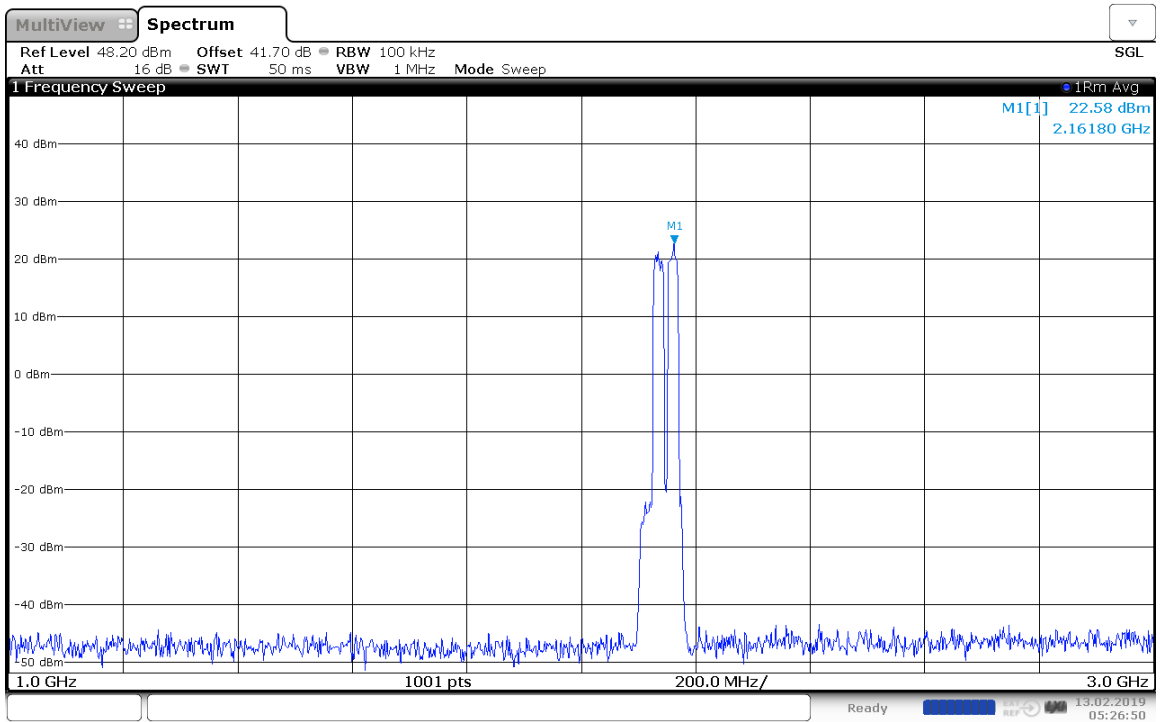
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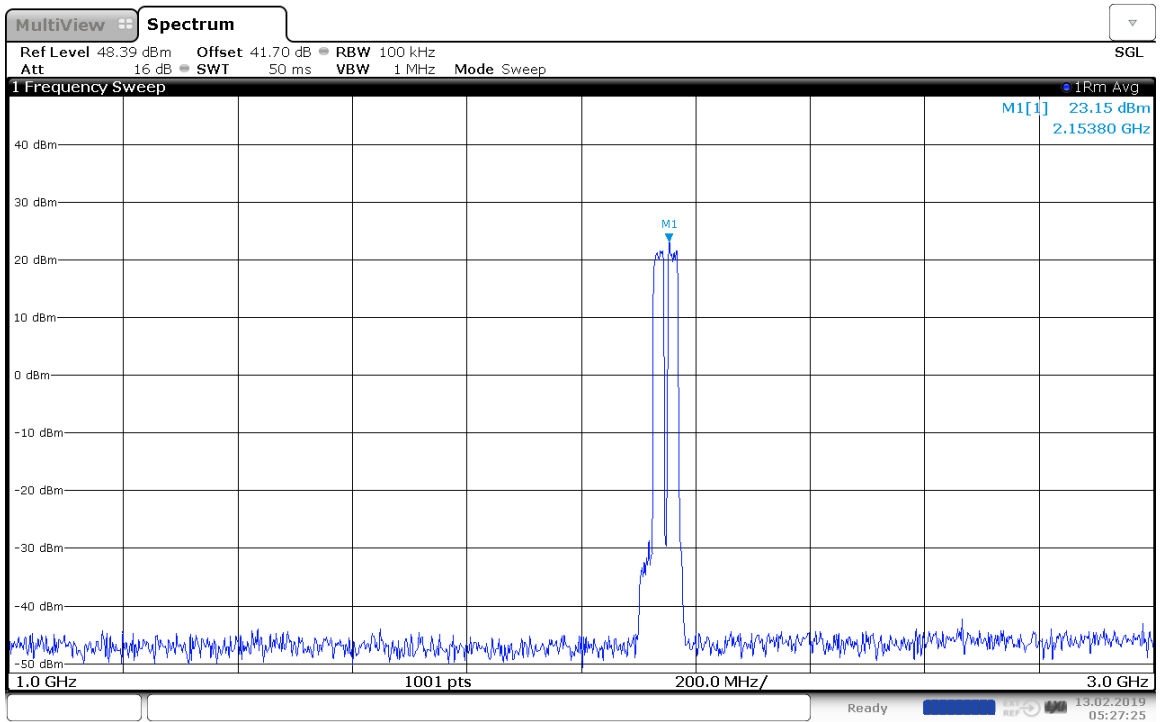
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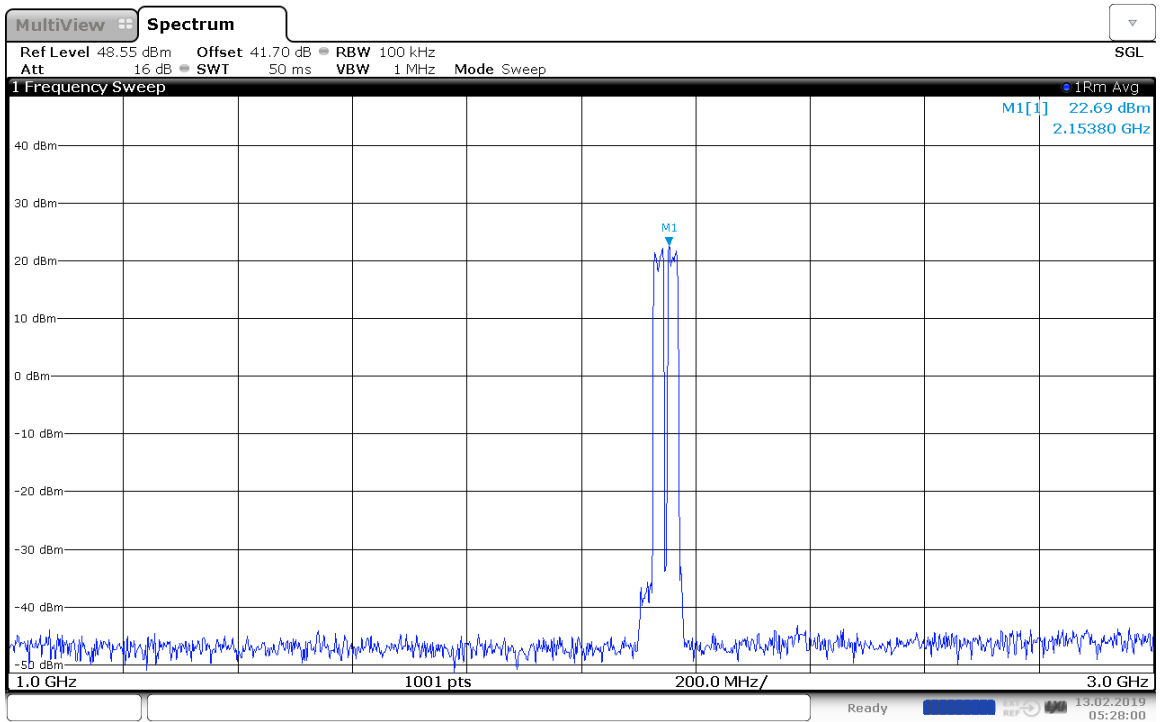
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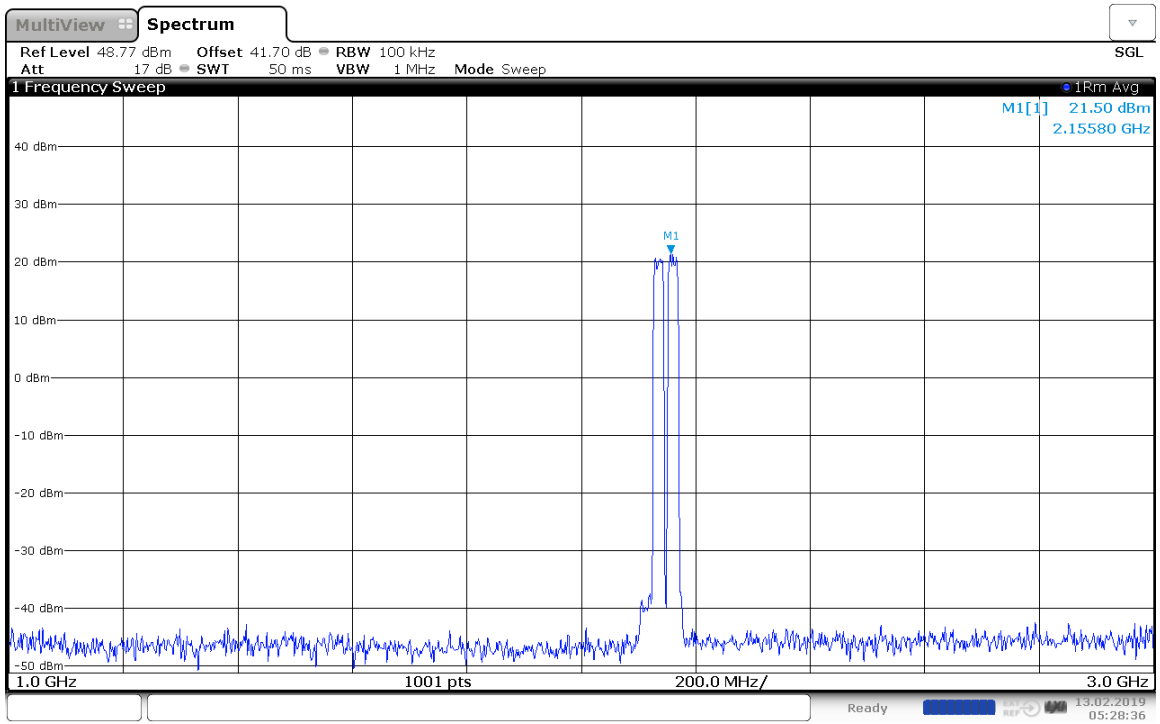
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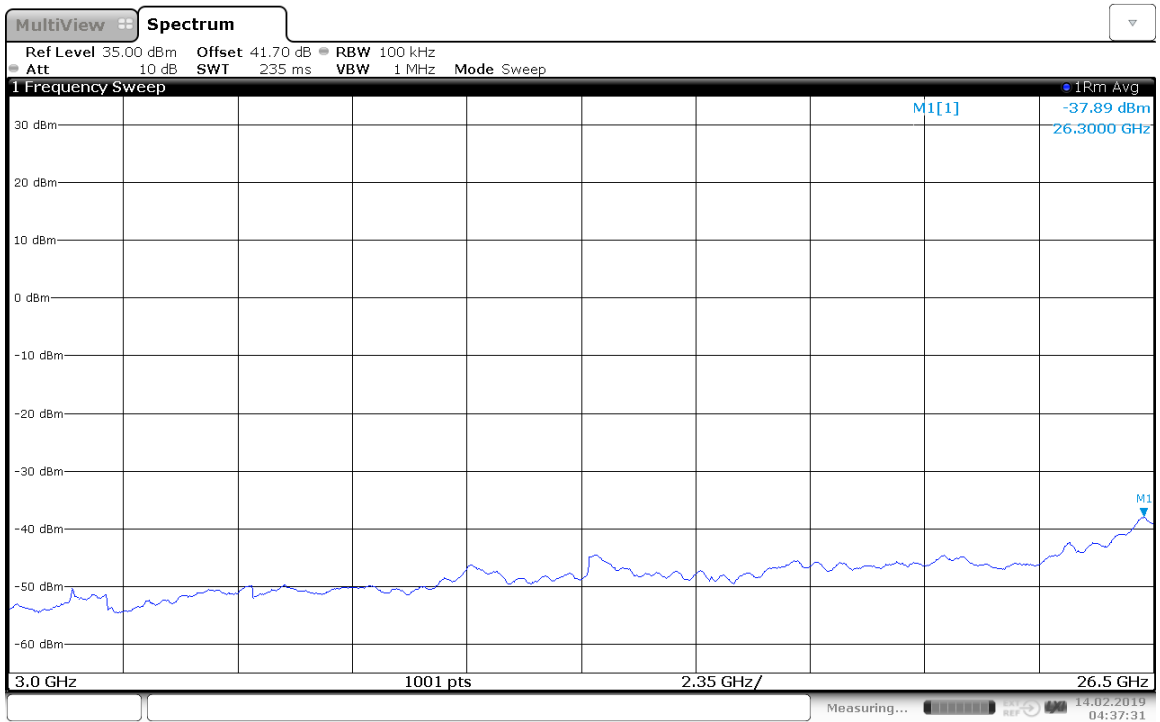
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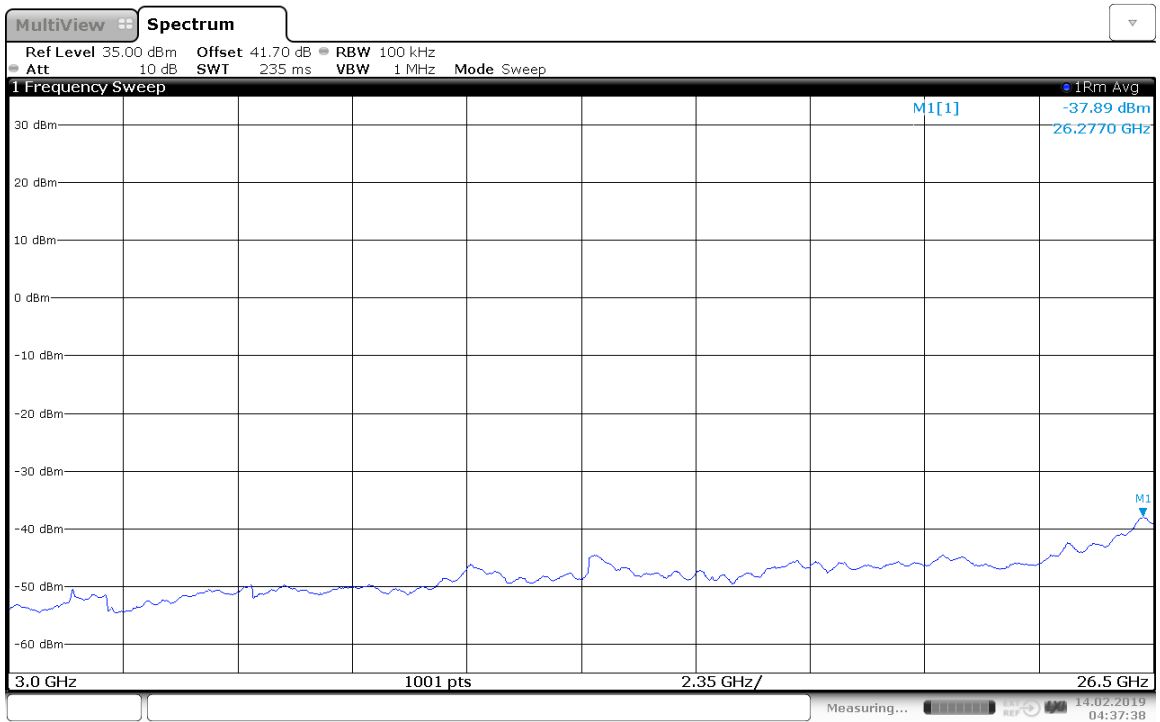
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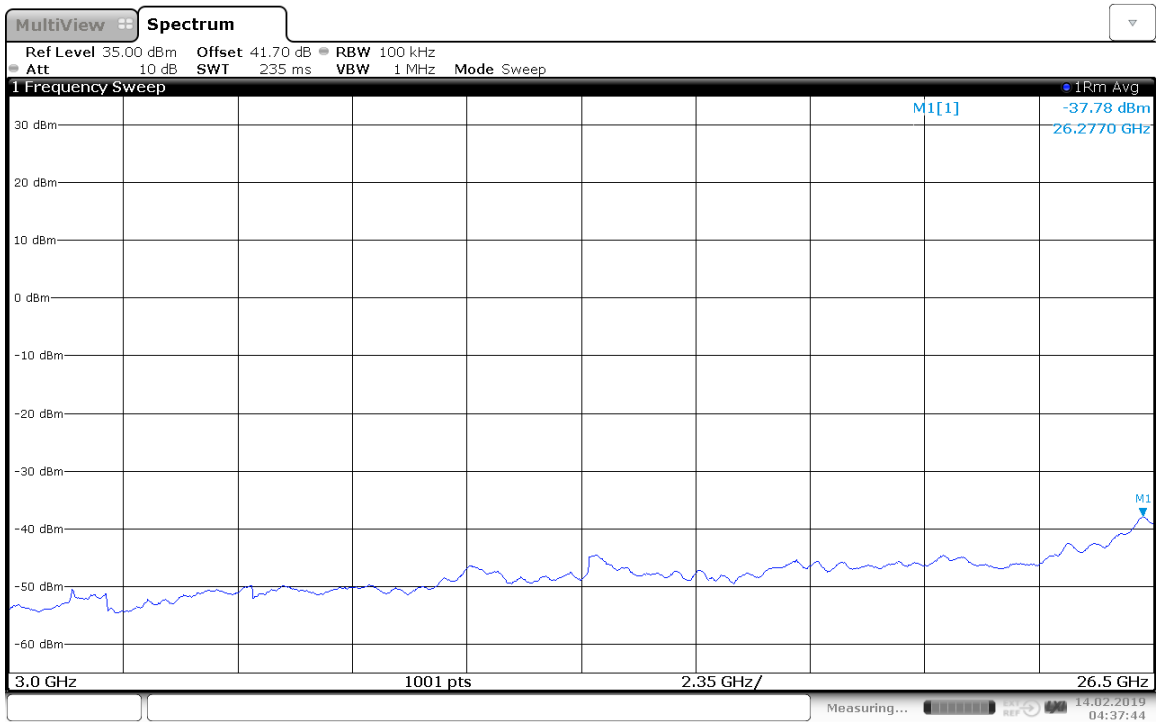
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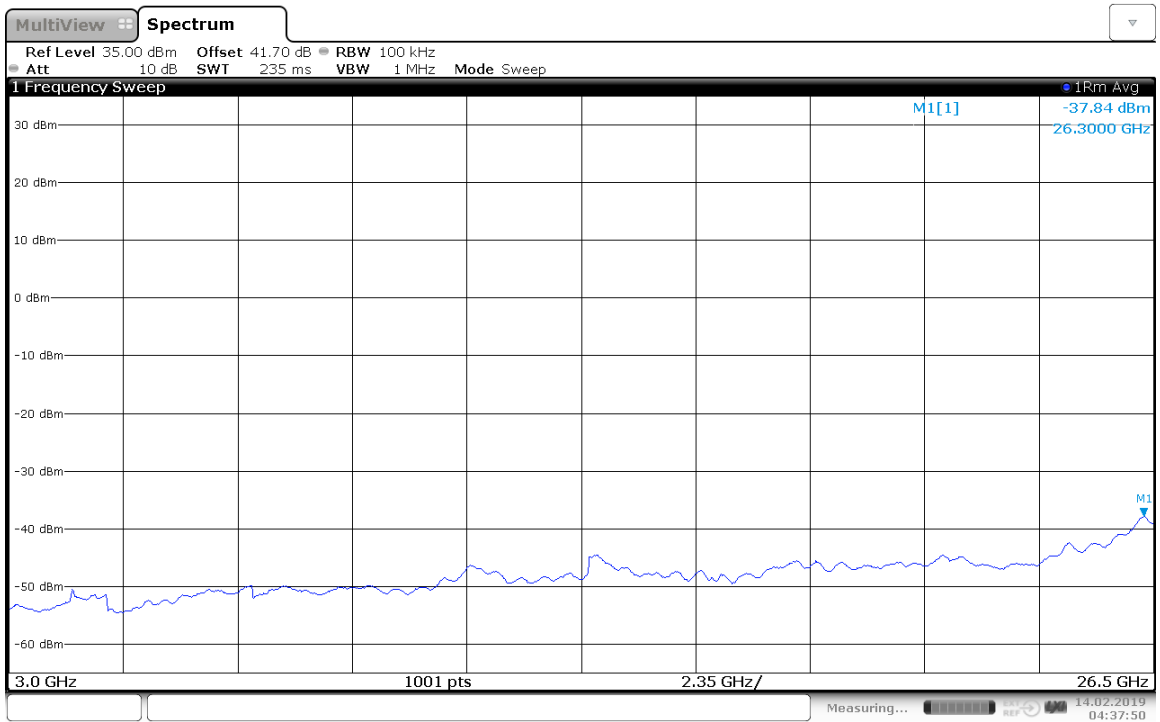
04:37:31 14.02.2019



04:37:38 14.02.2019



04:37:44 14.02.2019



04:37:50 14.02.2019

9. OCCUPIED BANDWIDTH

9.1.Applicable Standard :

FCC §2.1049

9.2.Test Equipment List and Details :

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Signal & Spectrum Analyzer	FSW26	SB12724/01	2018.06.06	2019.06.05
DTS	DTS 40dB Attenuator	DTS100-40-3-1	09112005	2018.07.19	2019.07.19
Radiall	RF Cable	1807188	---	---	---

***statement of traceability:** SMQ attests that all calibration has been performed per the A2LA requirements, traceable to NIM.

9.3.Test Procedure:

The RF out of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. 99%Power bandwidth was recorded.

9.4.Environmental Conditions :

Temperature:	22 °C
Relative Humidity:	51 %
ATM Pressure:	1020 mbar

9.5.Test Result: Pass

9.6.Test Mode: Transmitting LTE

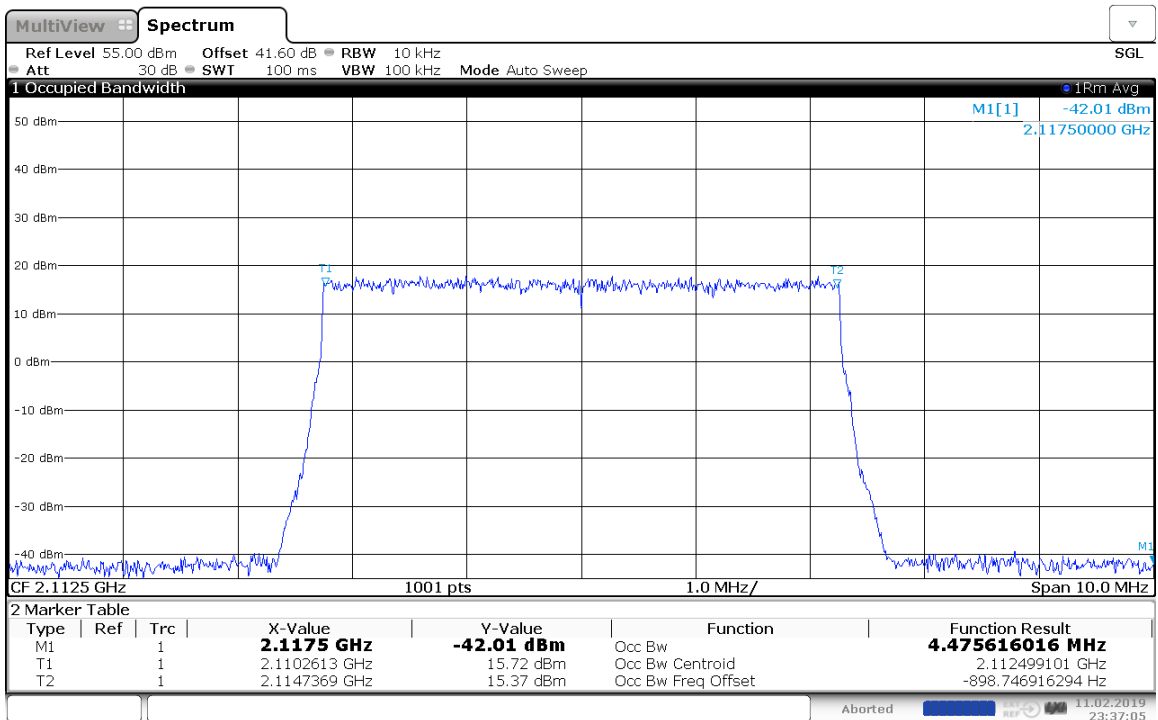
9.7.Test Data:

Dual Carrier:

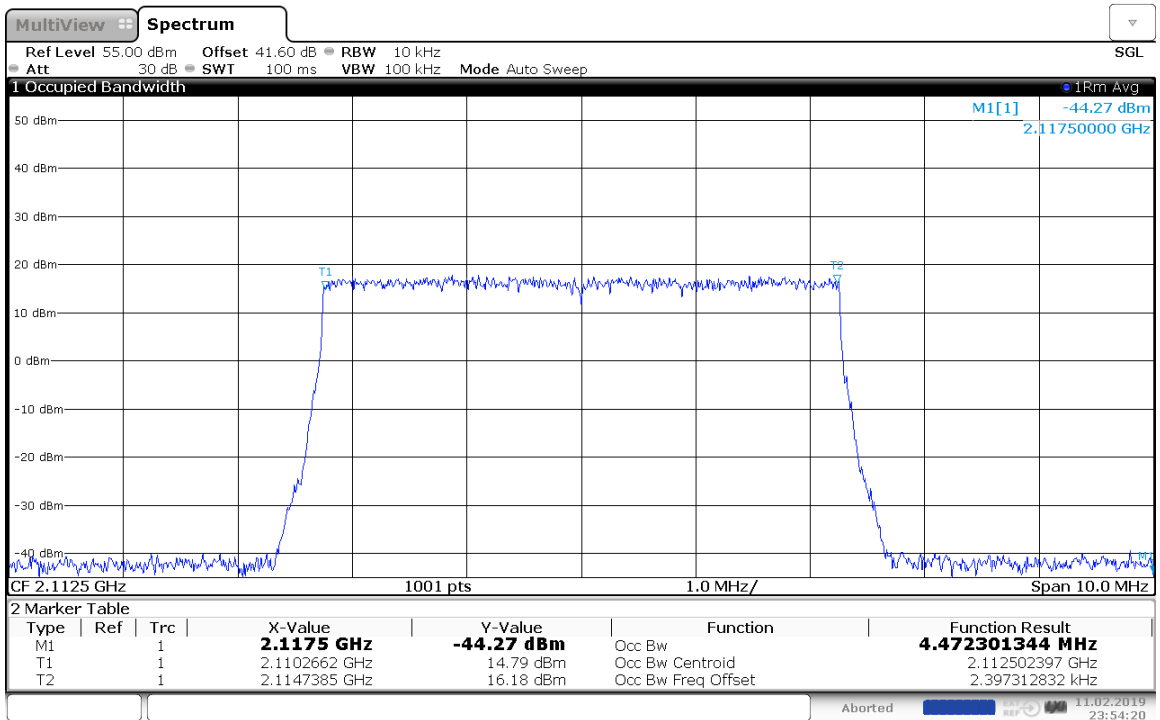
Channel Bandwidth :5M+5M(2112.5MHz & 2152.5MHz)

Port	Carrier1 Center Freq. (MHz)	Carrier1 99% Power Bandwidth (MHz)	Carrier2 Center Freq. (MHz)	Carrier2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2112.5	4.4756	2152.5	4.4749	5
2		4.4723		4.4737	5
3		4.4736		4.4768	5
4		4.4742		4.4712	5

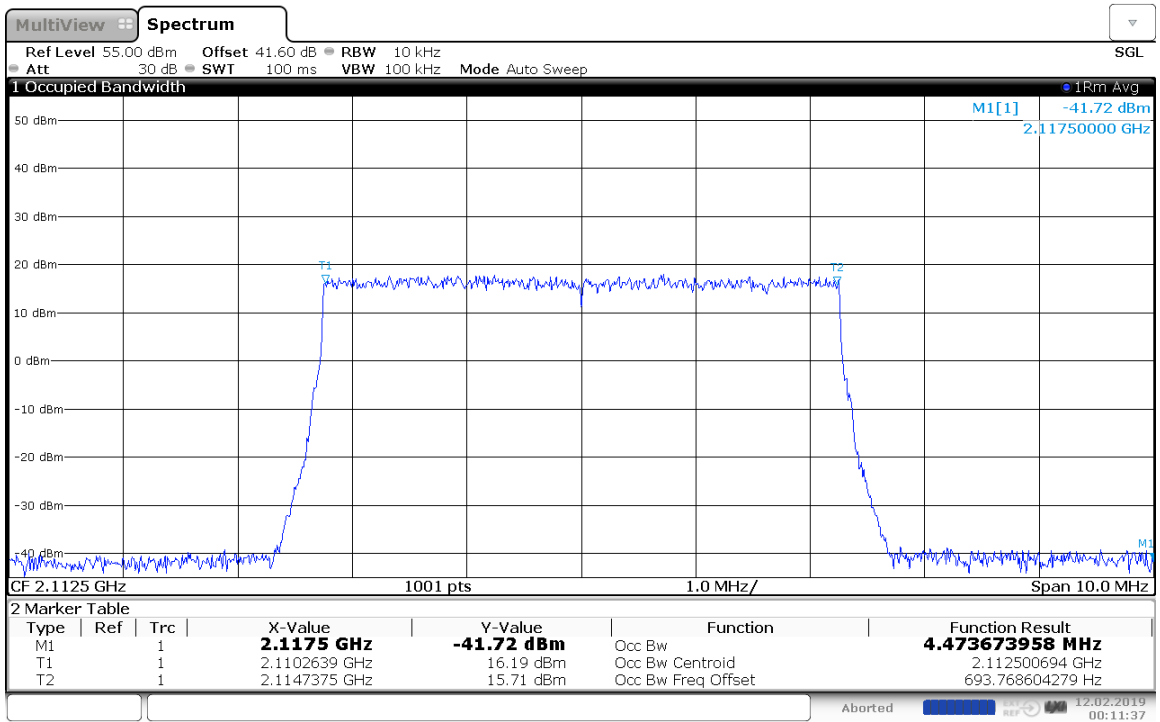
5M -2112.5MHz-Port 1~4:



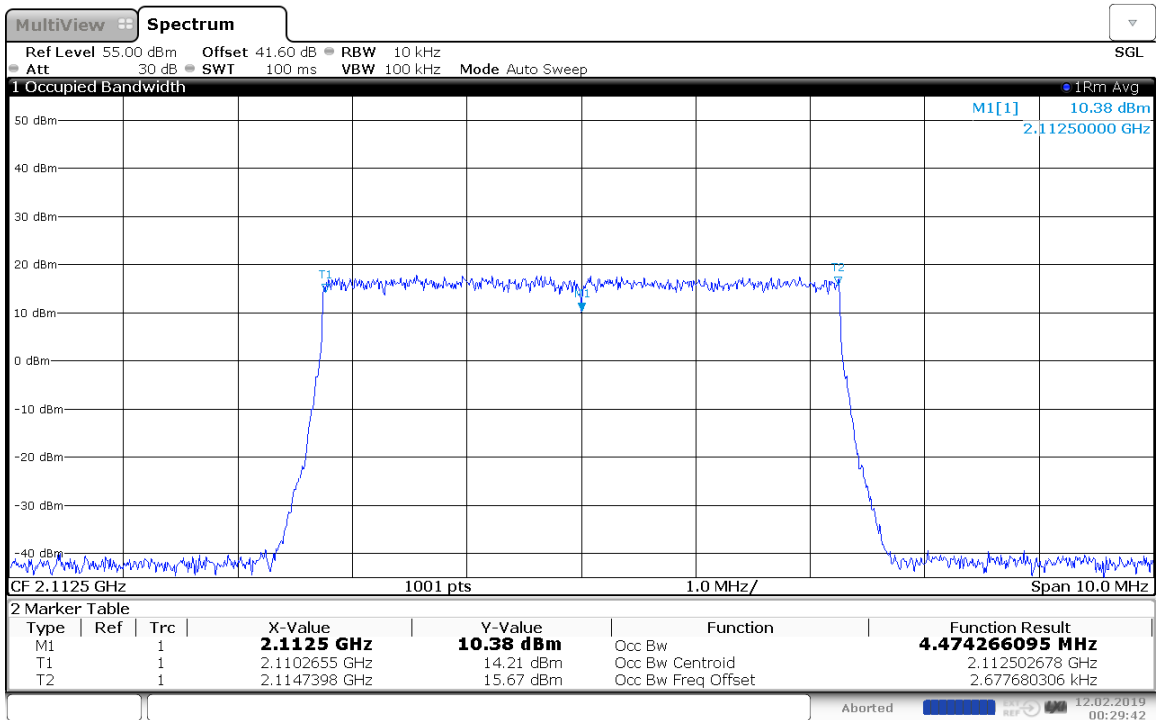
23:37:05 11.02.2019



23:54:20 11.02.2019

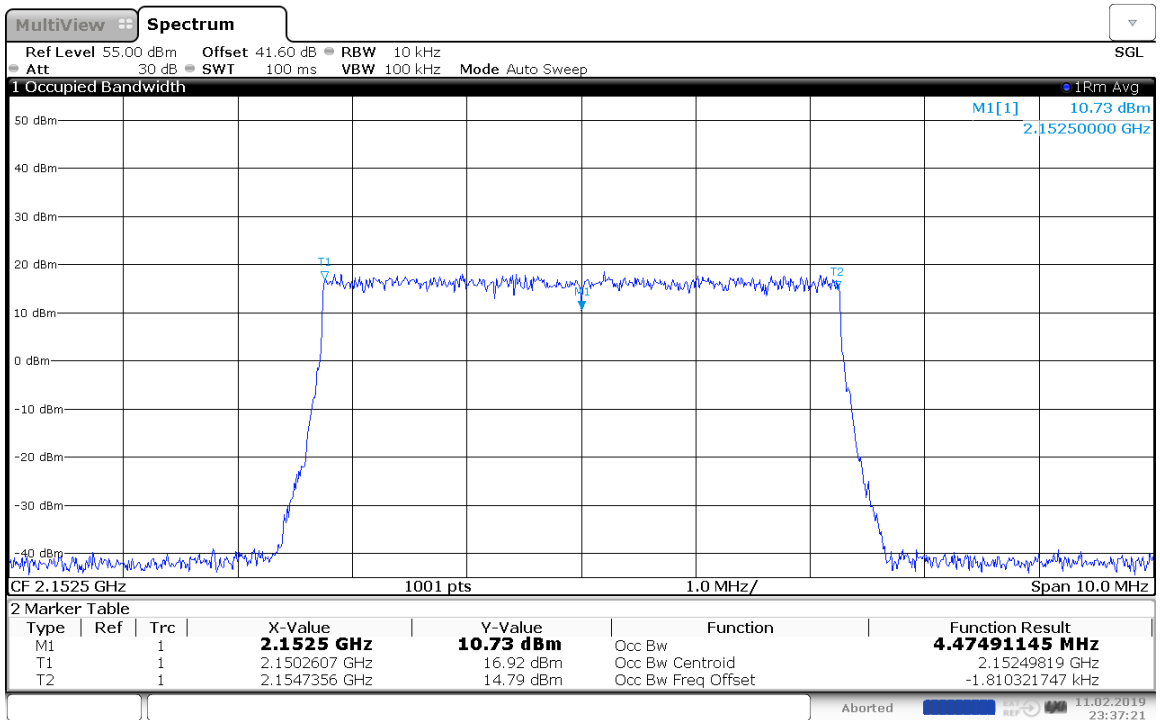


00:11:37 12.02.2019

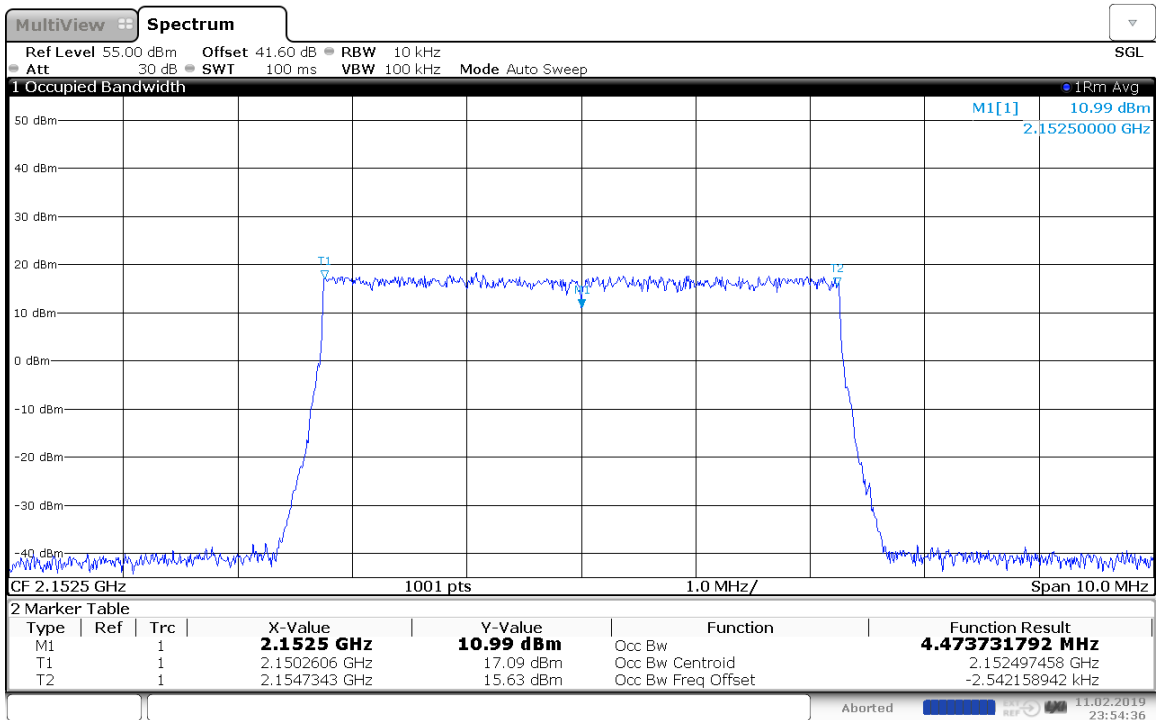


00:29:43 12.02.2019

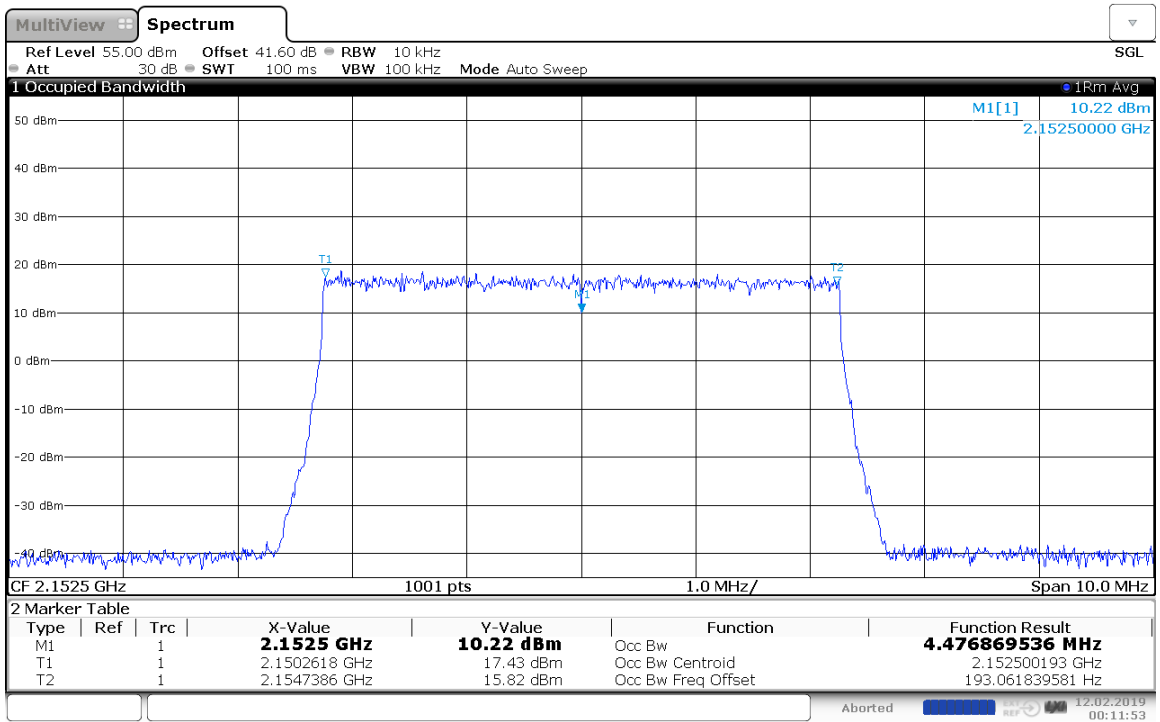
5M -2152.5MHz-Port 1~4:



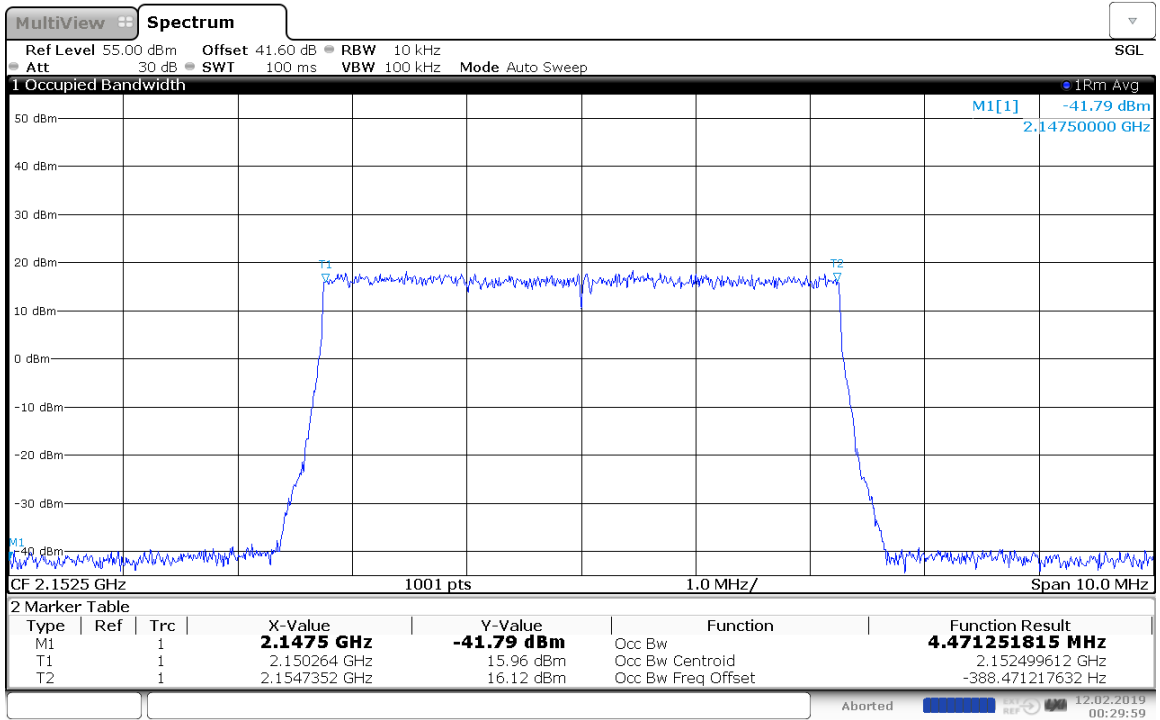
23:37:21 11.02.2019



23:54:37 11.02.2019



00:11:54 12.02.2019

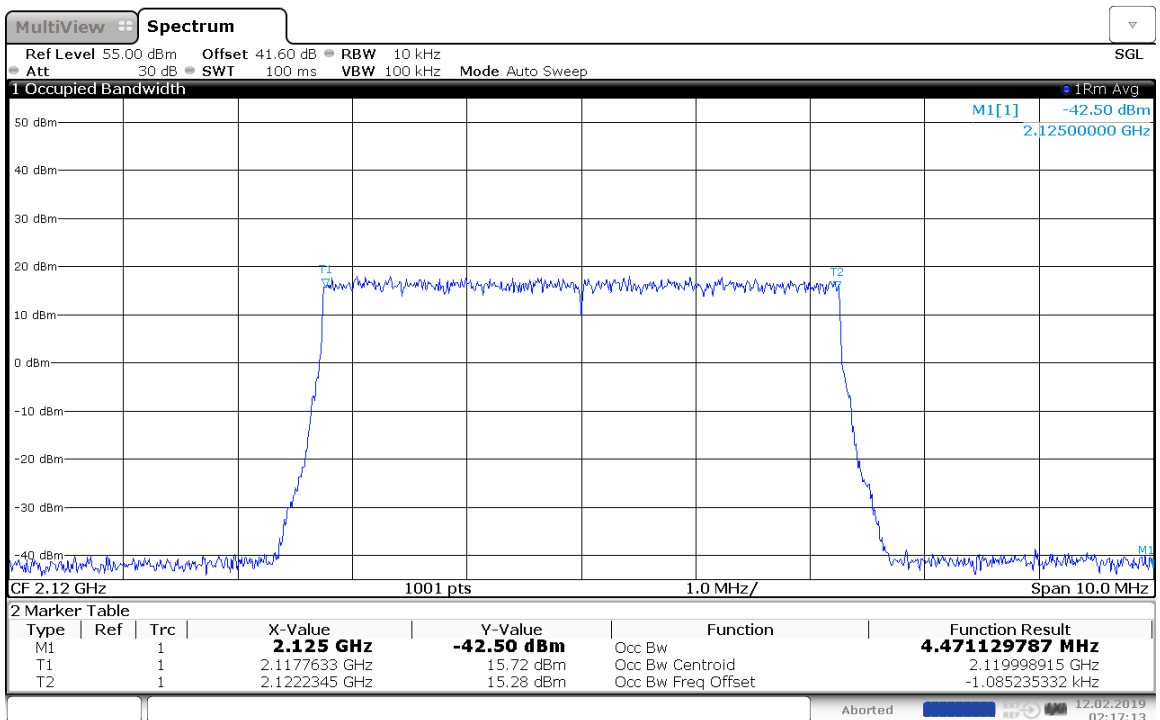


00:30:00 12.02.2019

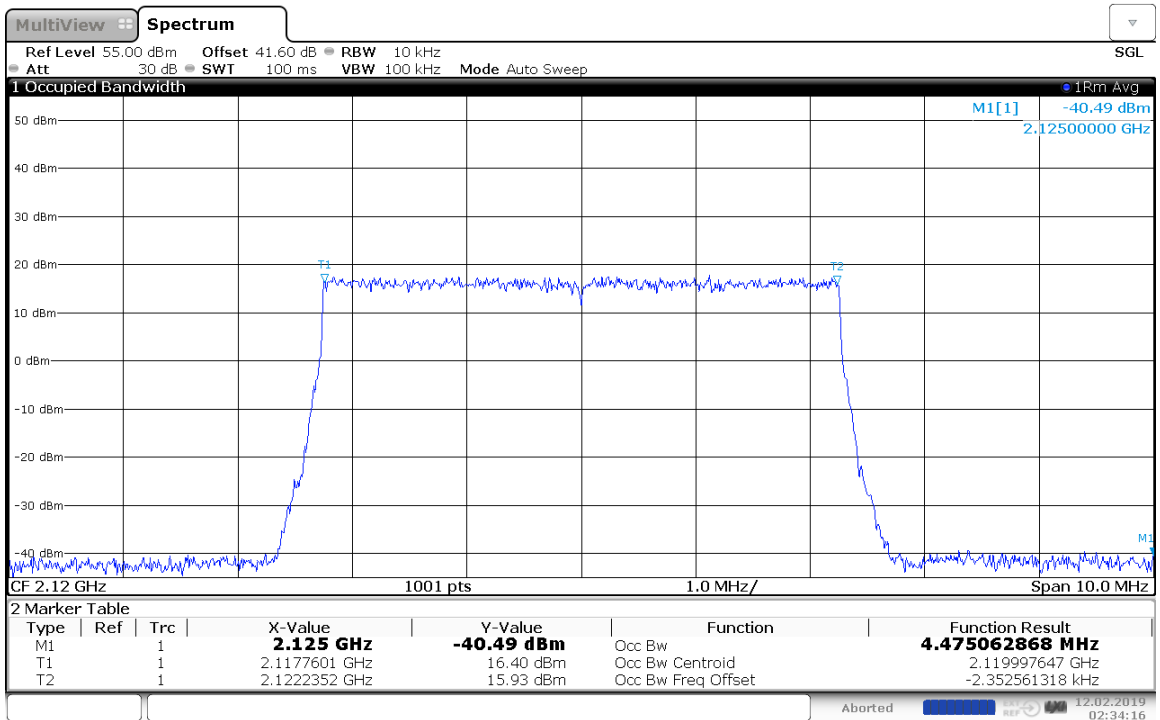
Channel Bandwidth :5M+5M(2120MHz & 2160MHz)

Port	Carrier1 Center Freq. (MHz)	Carrier1 99% Power Bandwidth (MHz)	Carrier2 Center Freq. (MHz)	Carrier2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2120	4.4711	2160	4.4720	5
2		4.4750		4.4716	5
3		4.4770		4.4696	5
4		4.4750		4.4748	5

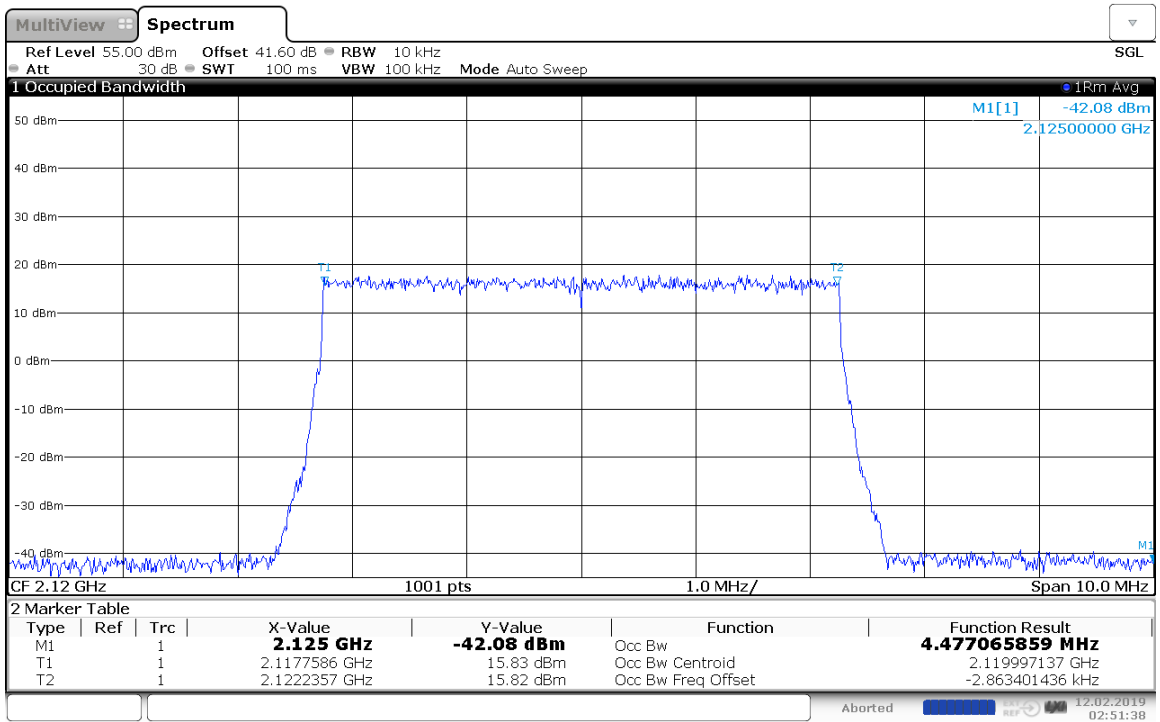
5M -2120MHz-Port 1~4:



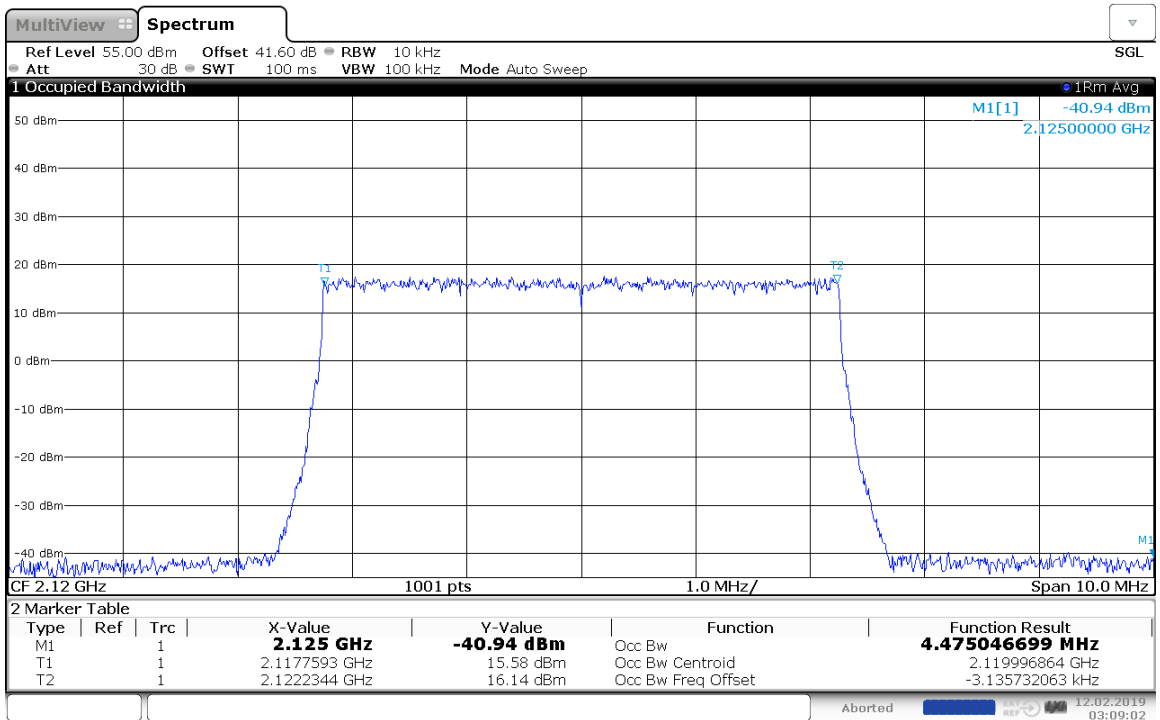
02:17:13 12.02.2019



02:34:16 12.02.2019

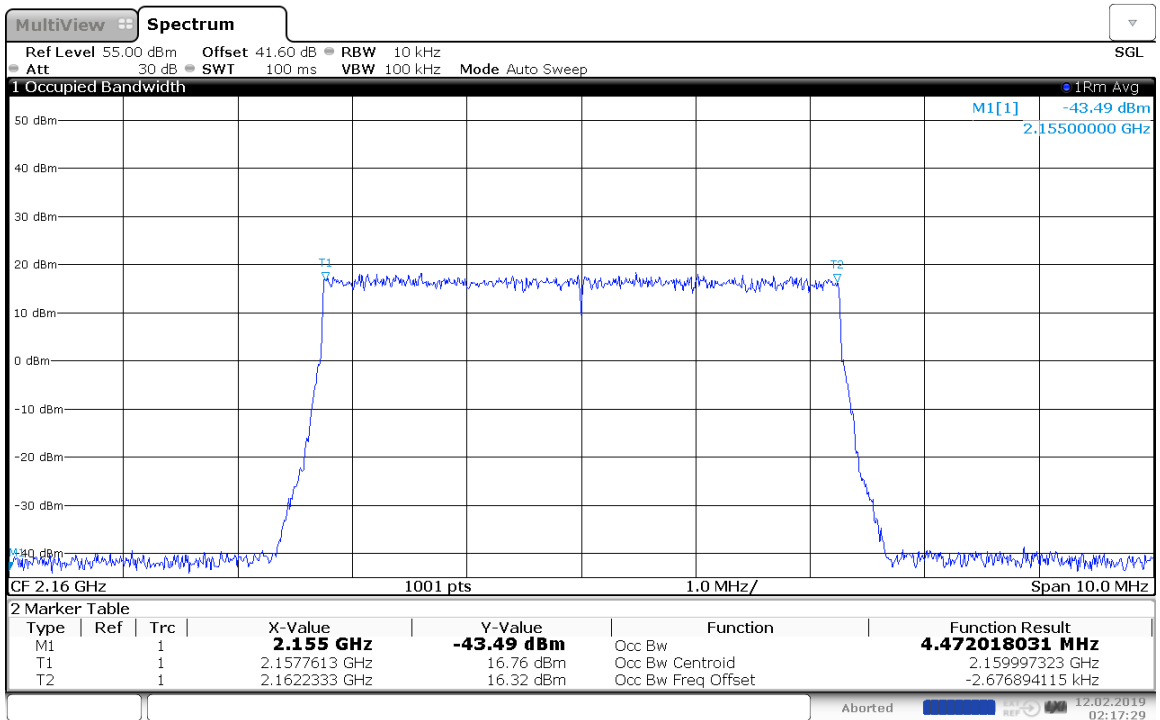


02:51:38 12.02.2019

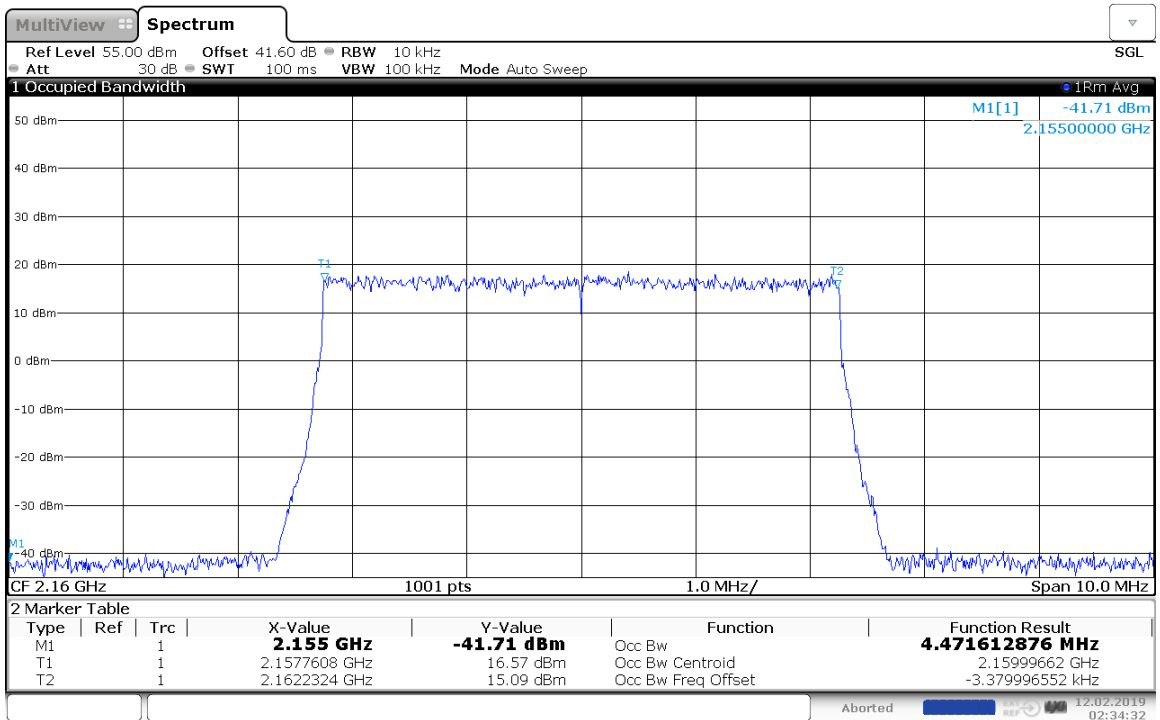


03:09:03 12.02.2019

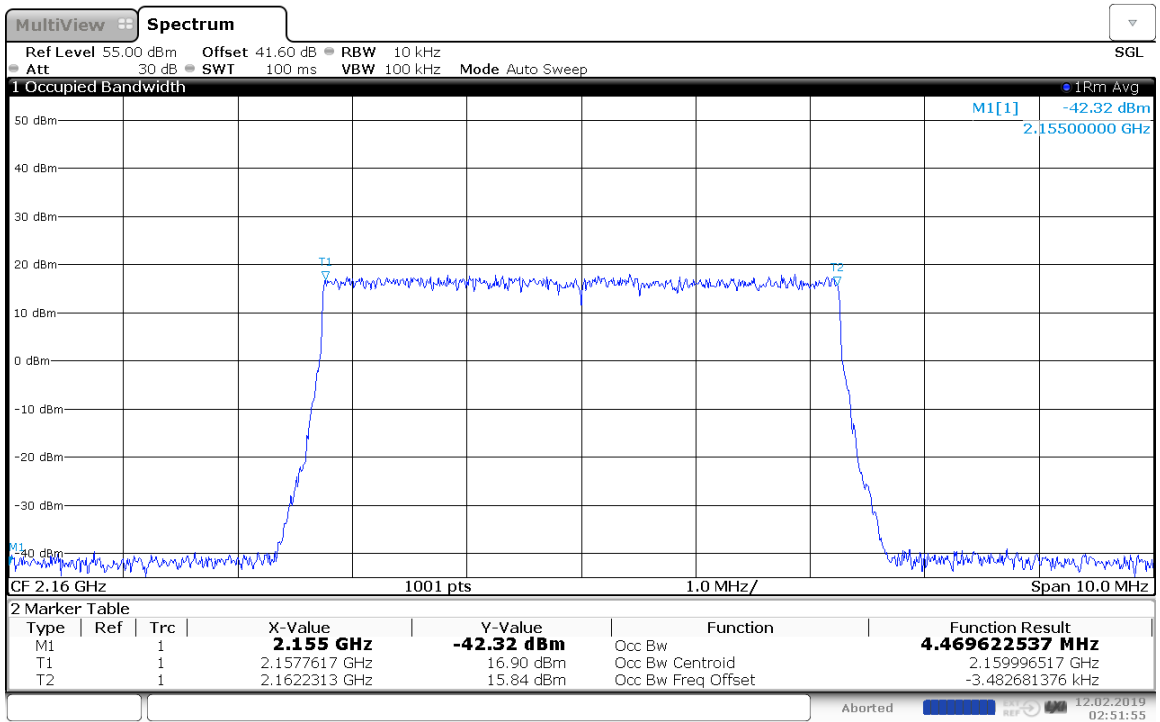
5M -2160MHz-Port 1~4:



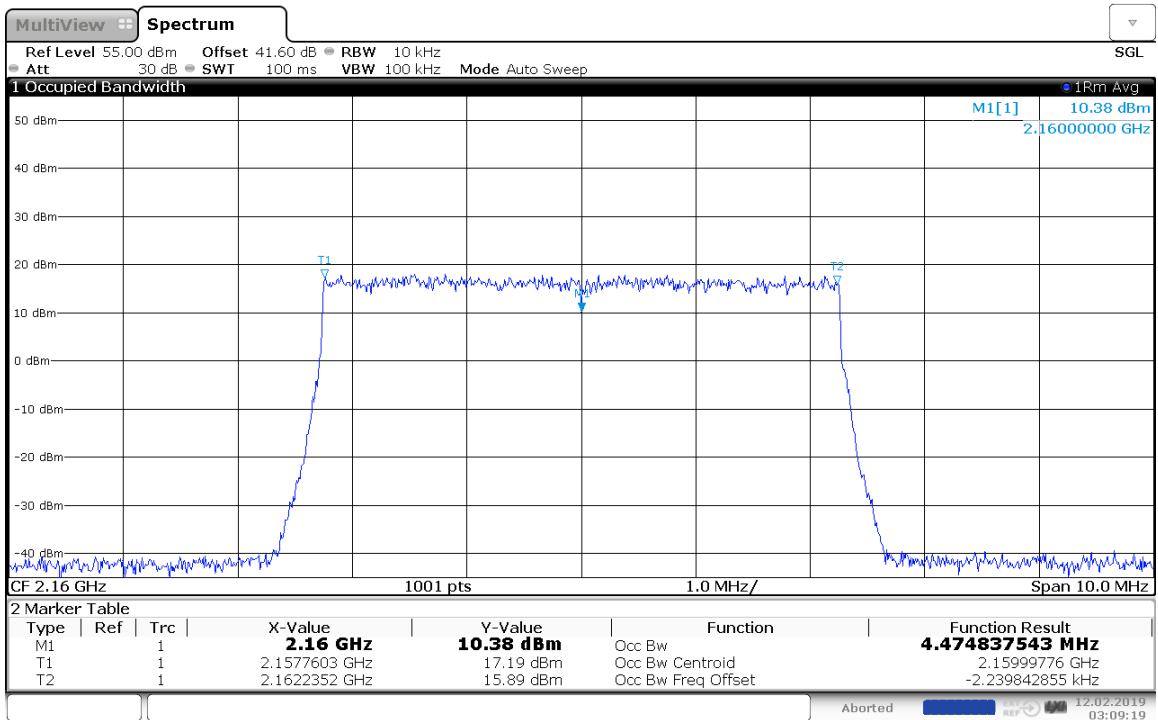
02:17:30 12.02.2019



02:34:32 12.02.2019



02:51:56 12.02.2019

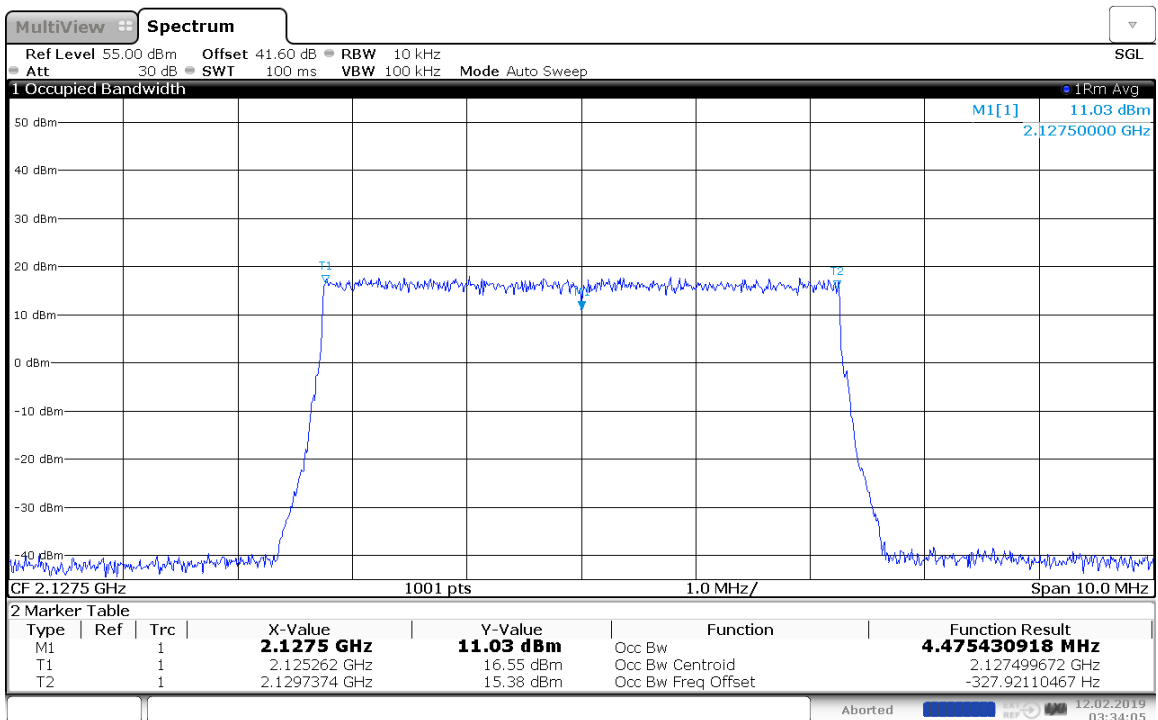


03:09:20 12.02.2019

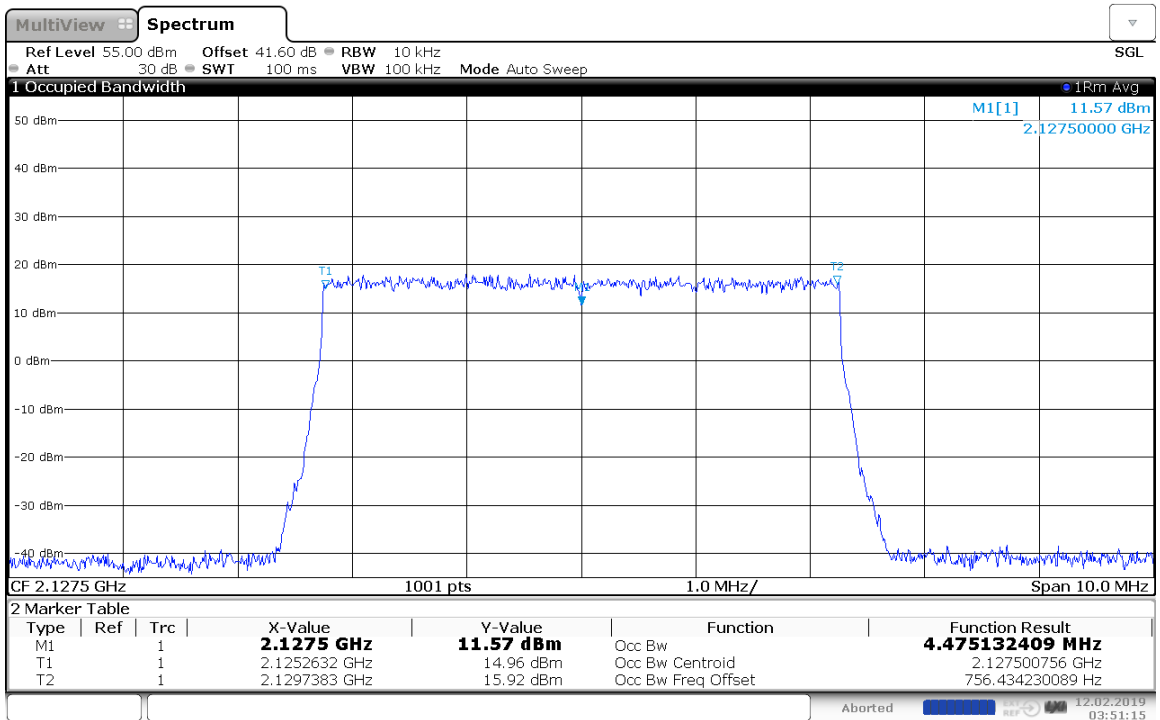
Channel Bandwidth :5M+5M(2127.5MHz & 2167.5MHz)

Port	Carrier1 Center Freq. (MHz)	Carrier1 99% Power Bandwidth (MHz)	Carrier2 Center Freq. (MHz)	Carrier2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2127.5	4.4754	2167.5	4.4775	5
2		4.4751		4.4681	5
3		4.4685		4.4682	5
4		4.4720		4.4682	5

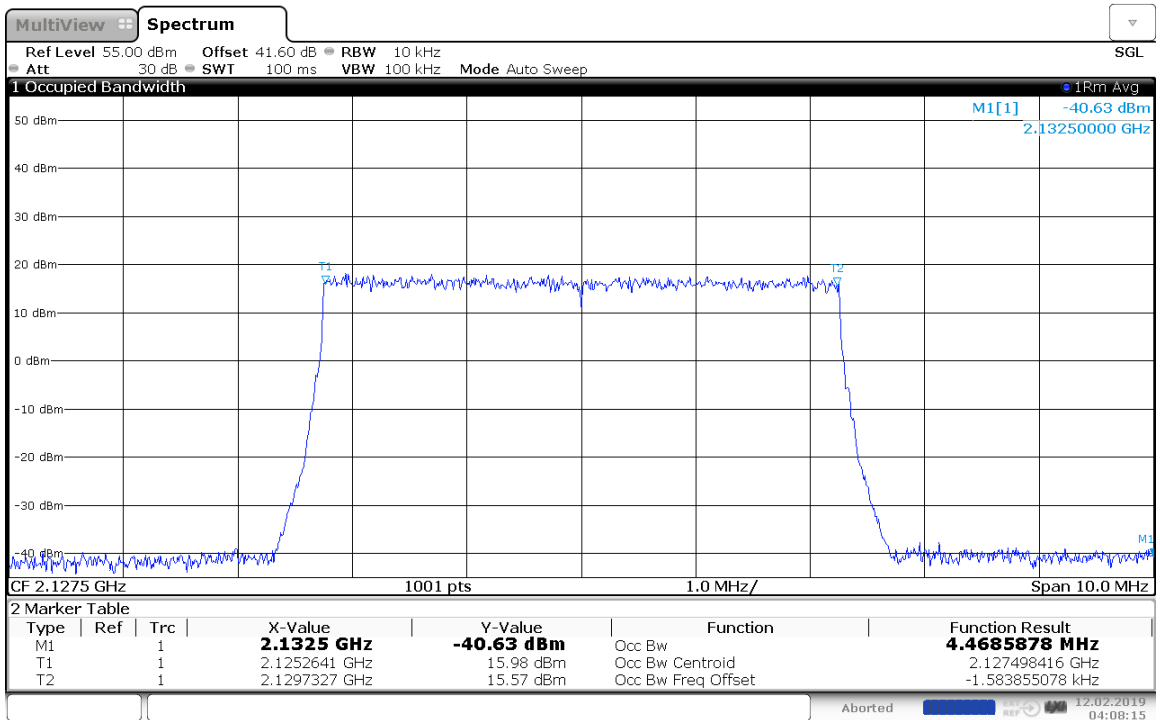
5M -2127.5MHz-Port 1~4:



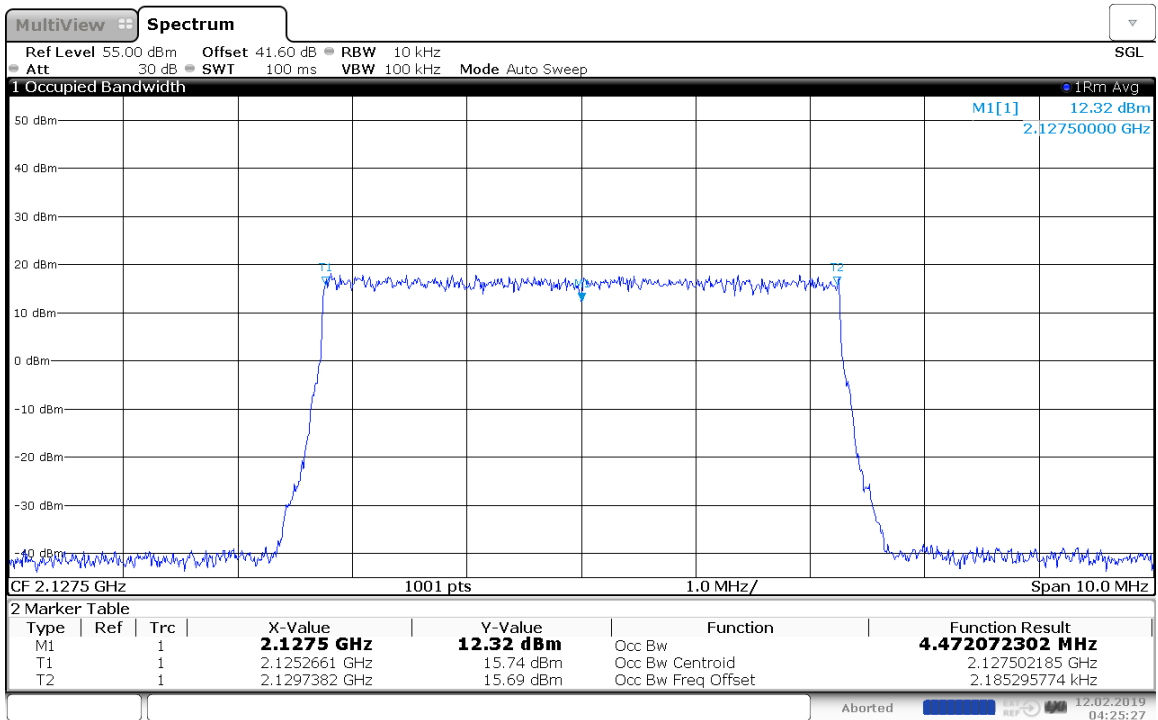
03:34:05 12.02.2019



03:51:16 12.02.2019

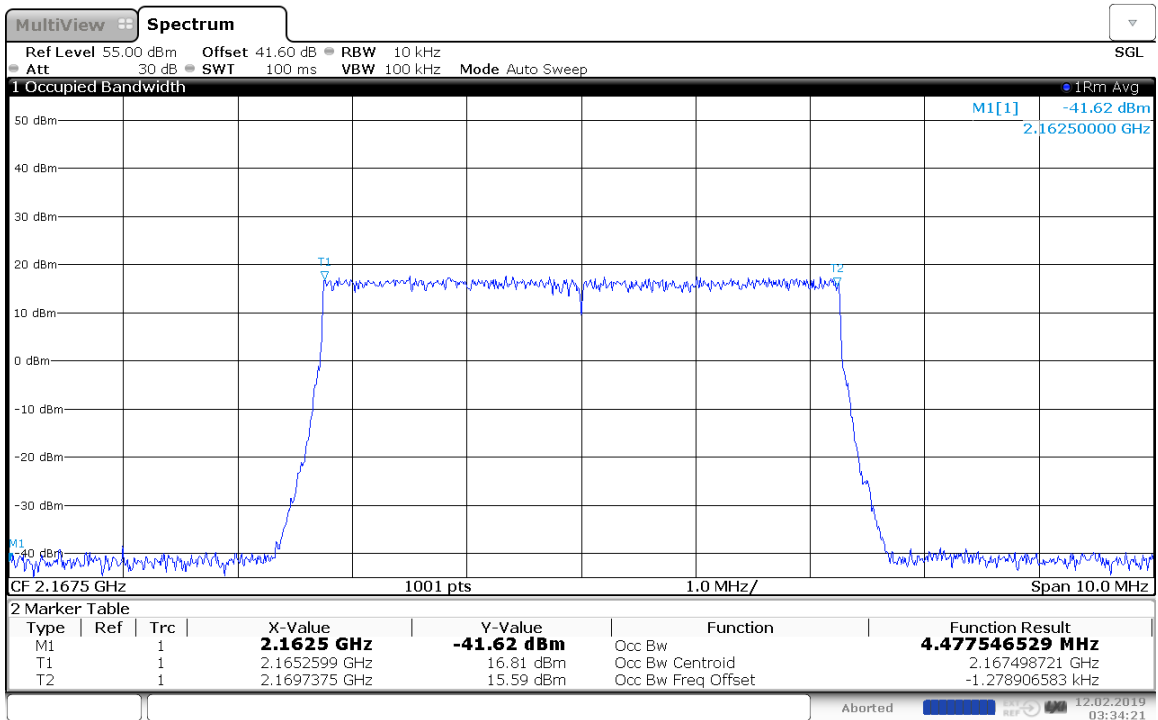


04:08:16 12.02.2019

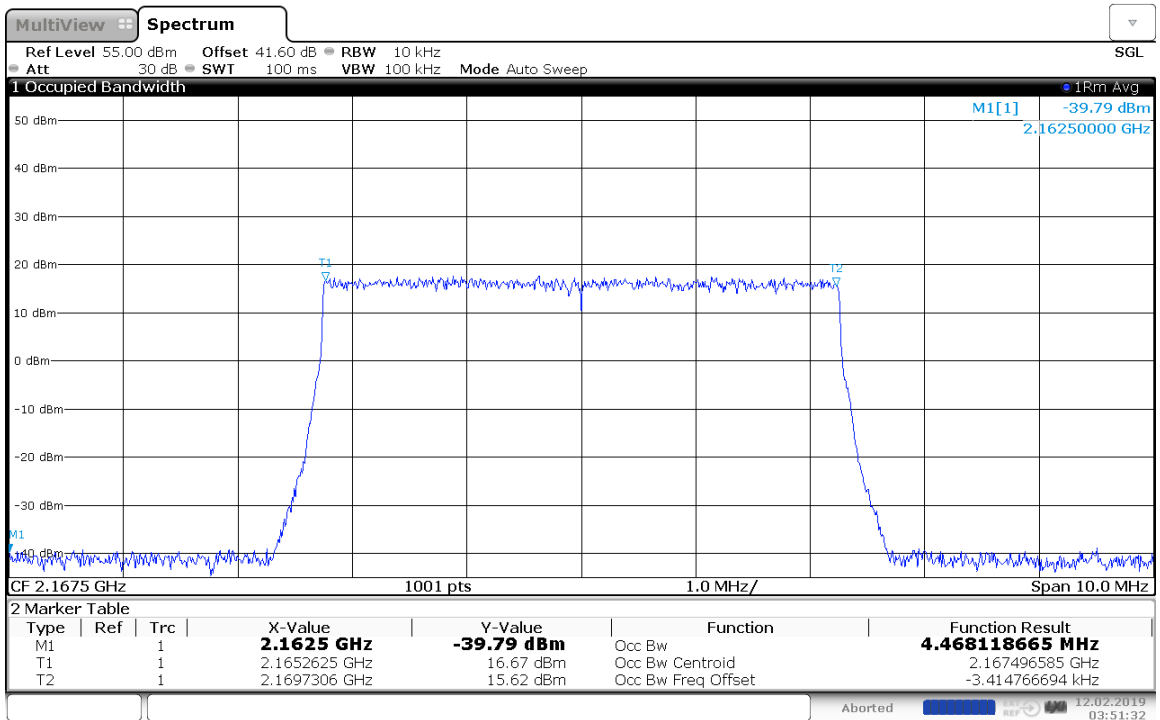


04:25:28 12.02.2019

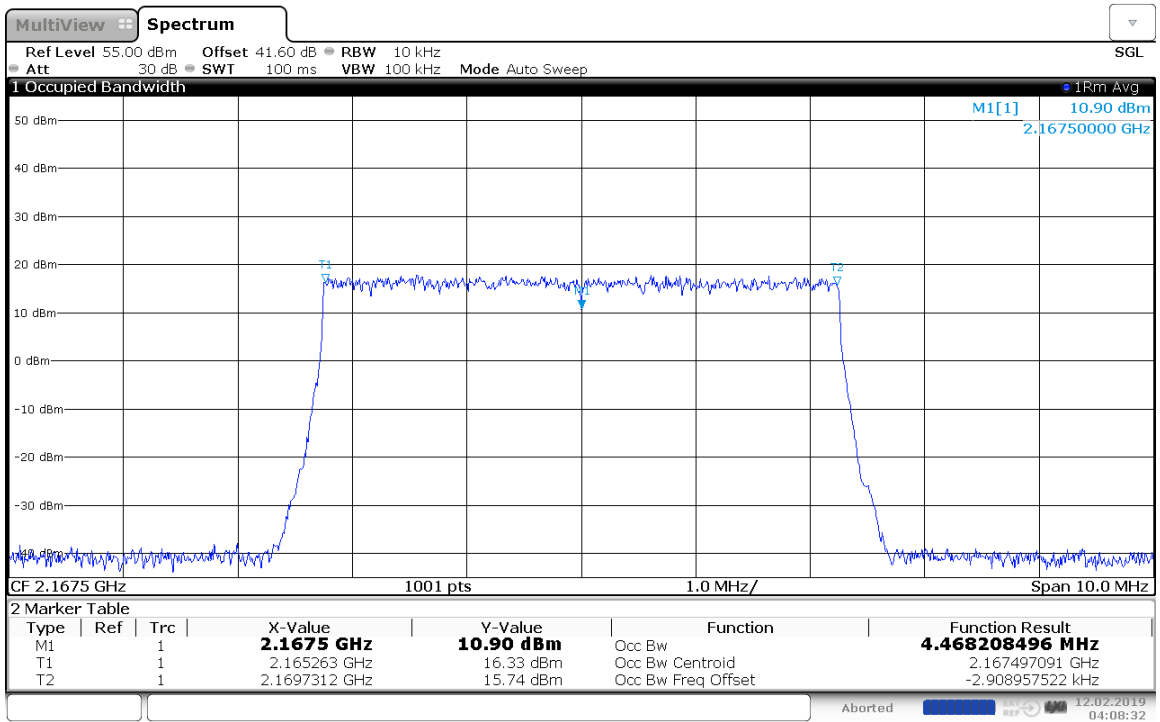
5M -2167.5MHz-Port 1~4:



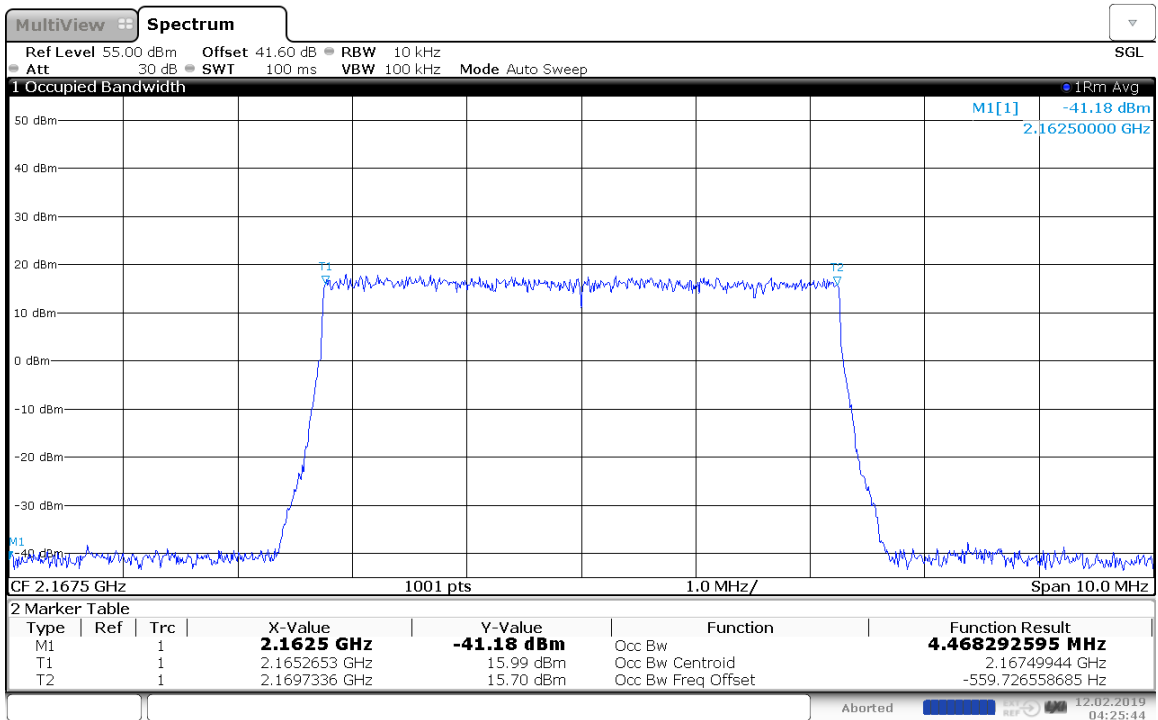
03:34:22 12.02.2019



03:51:32 12.02.2019



04:08:33 12.02.2019

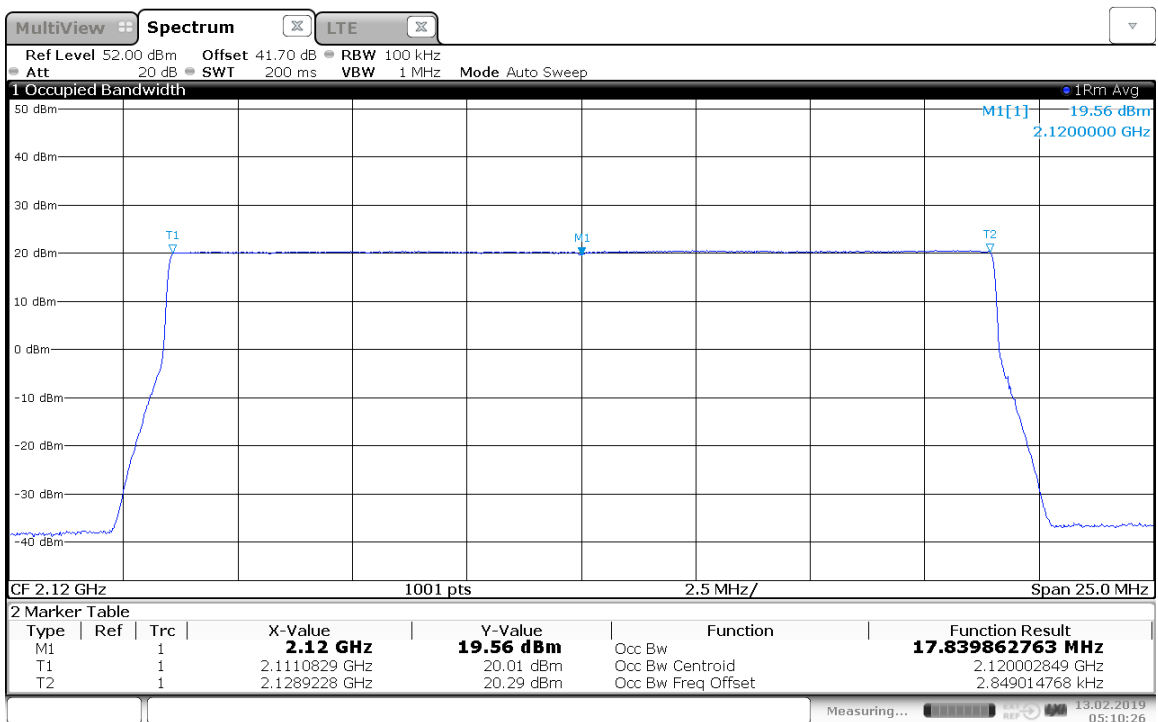


04:25:44 12.02.2019

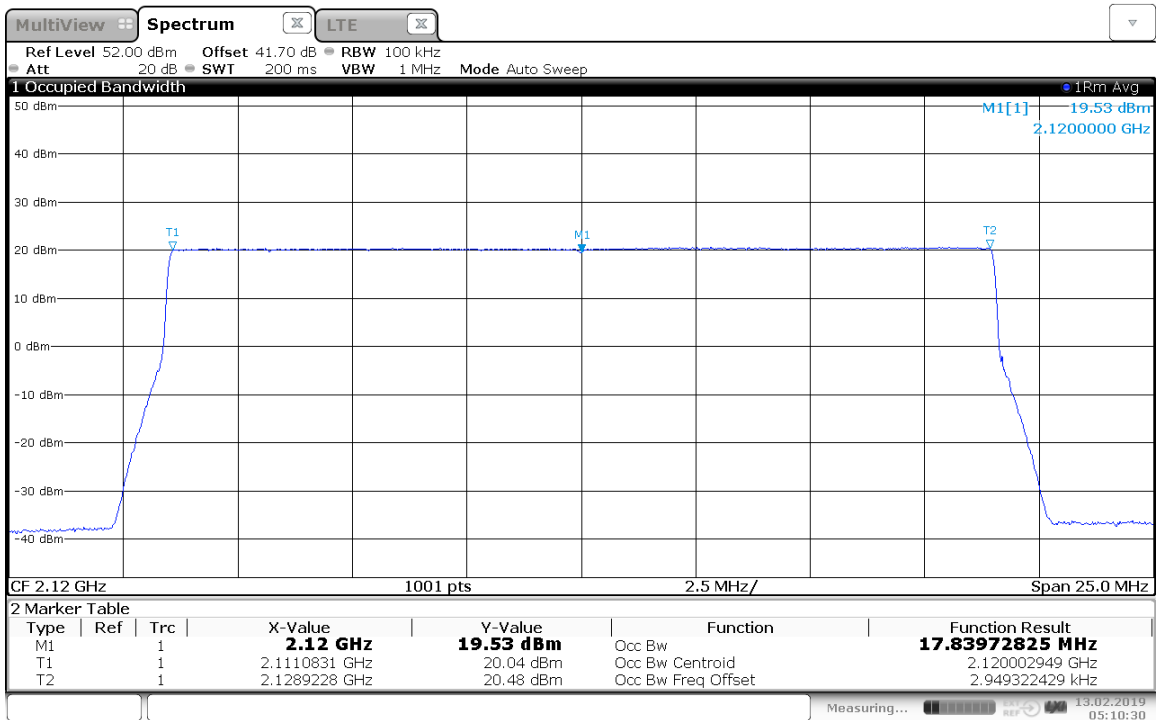
Channel Bandwidth :20M+20M(2120MHz & 2145MHz)

Port	Carrier1 Center Freq. (MHz)	Carrier1 99% Power Bandwidth (MHz)	Carrier2 Center Freq. (MHz)	Carrier2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2120	17.8398	2145	17.8349	20
2		17.8397		17.8347	20
3		17.8394		17.8345	20
4		17.8400		17.8354	20

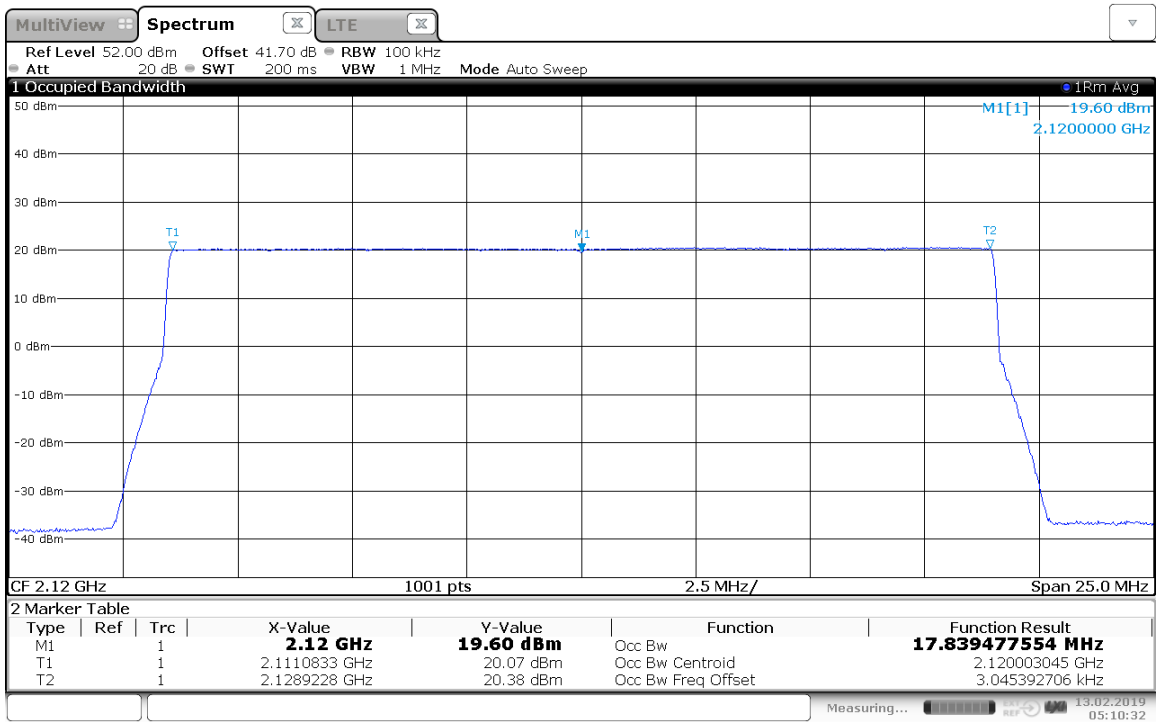
20M -2120MHz-Port 1~4:



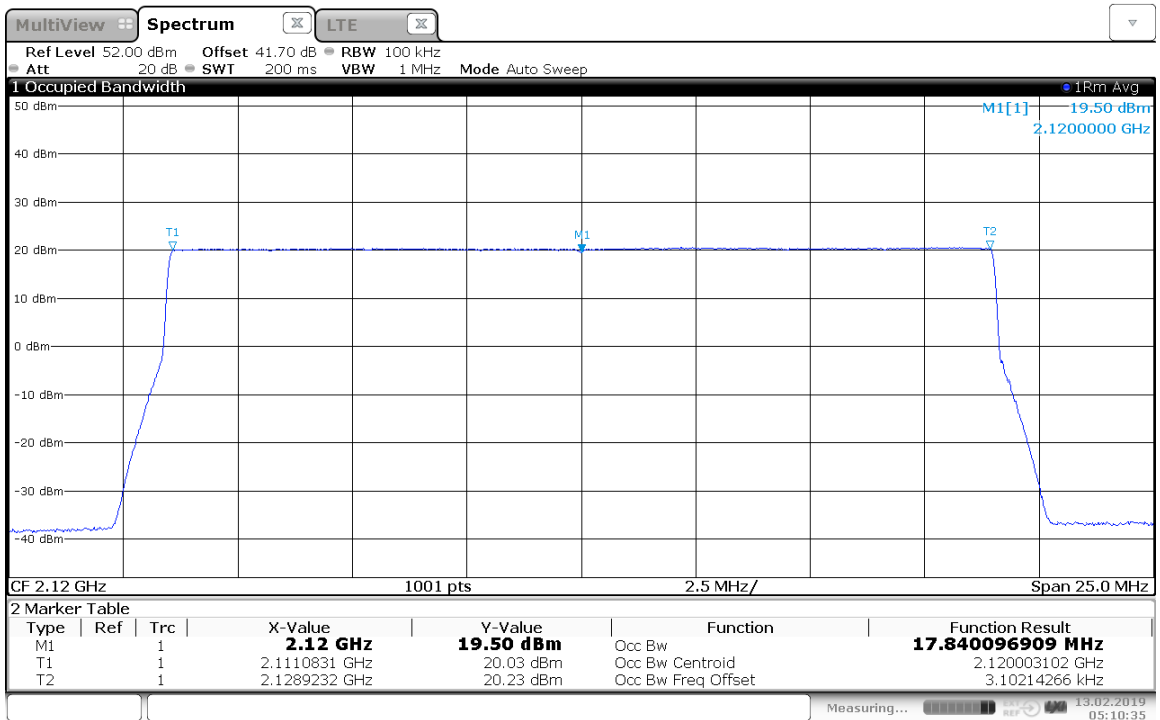
05:10:26 13.02.2019



05:10:30 13.02.2019

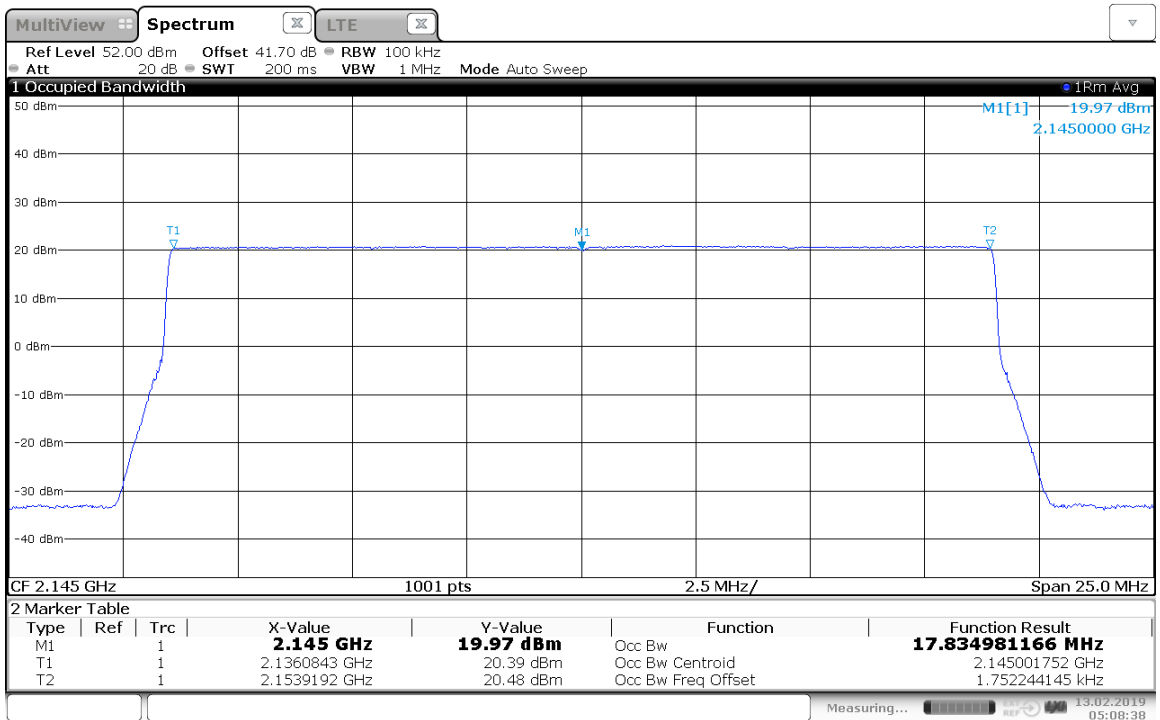


05:10:32 13.02.2019

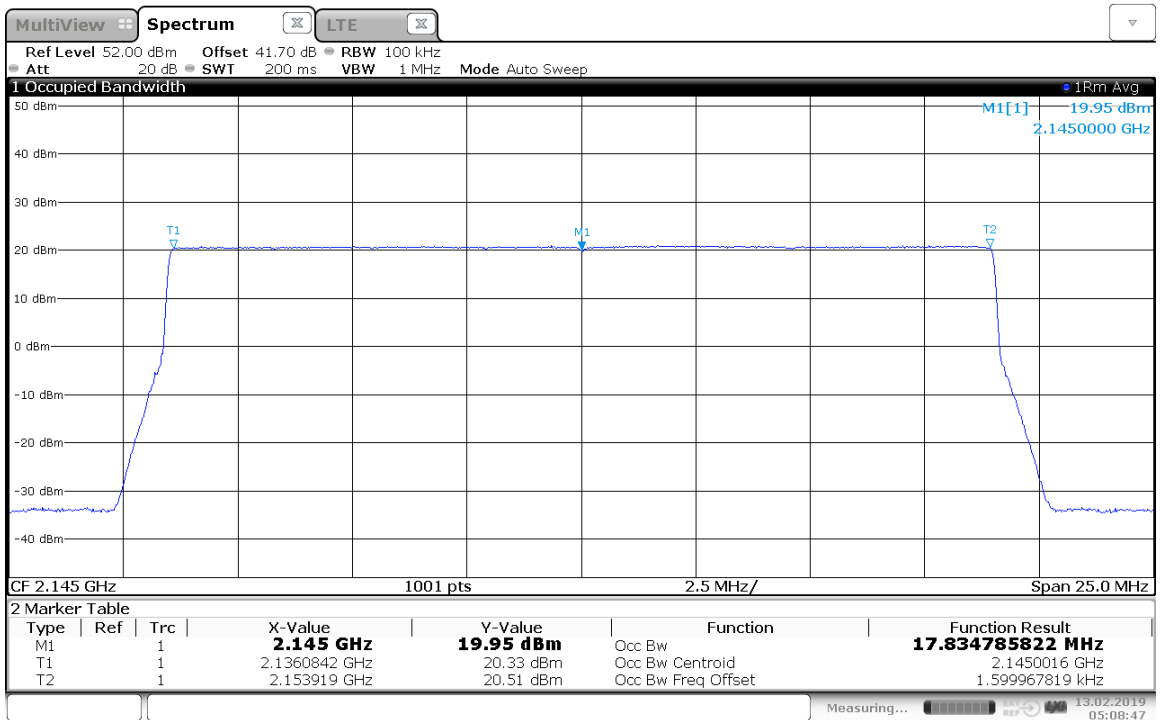


05:10:35 13.02.2019

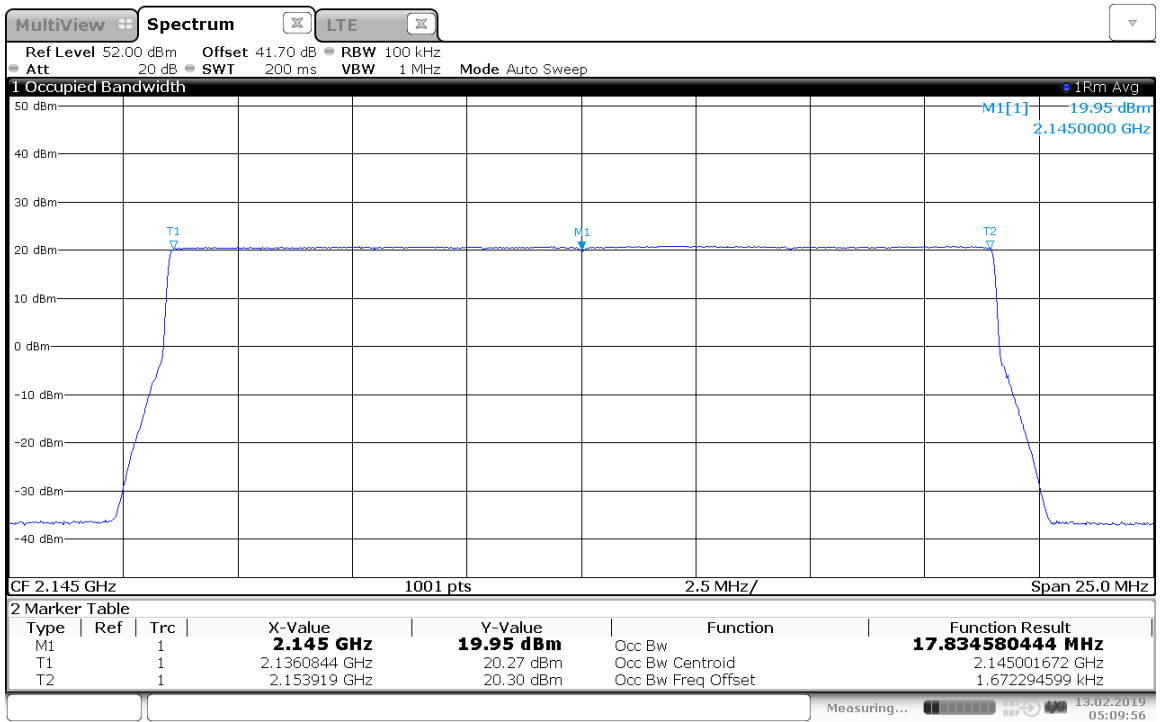
20M -2145MHz-Port 1~4:



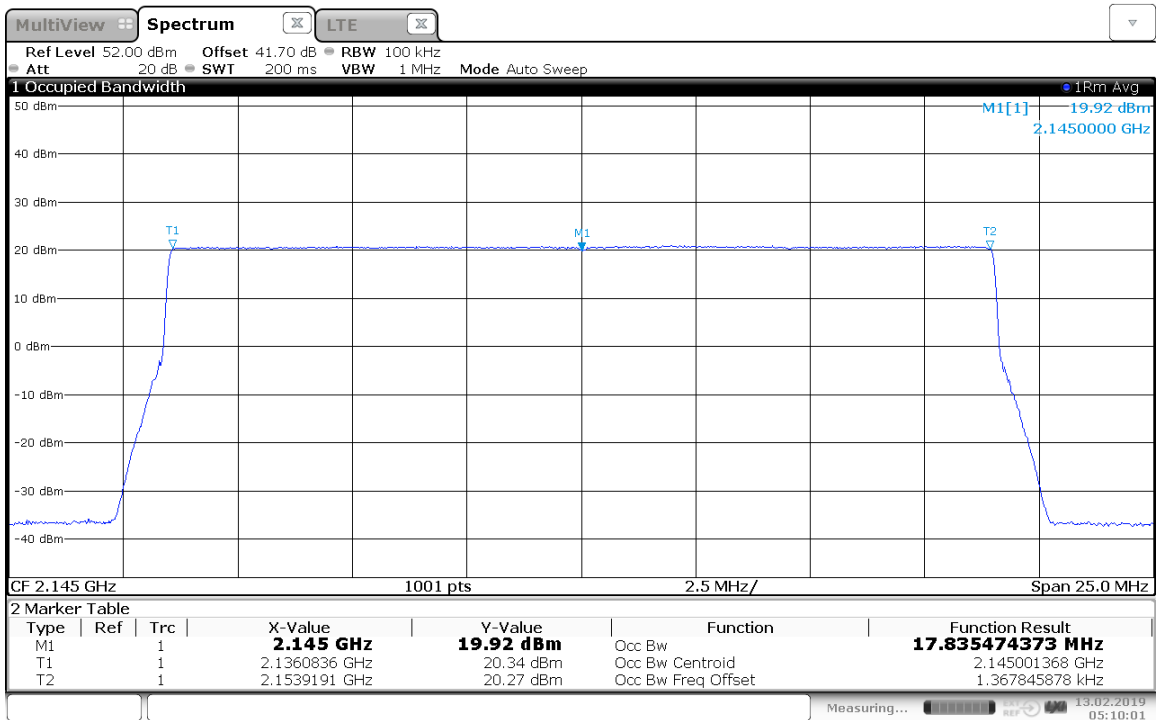
05:08:39 13.02.2019



05:08:48 13.02.2019



05:09:57 13.02.2019

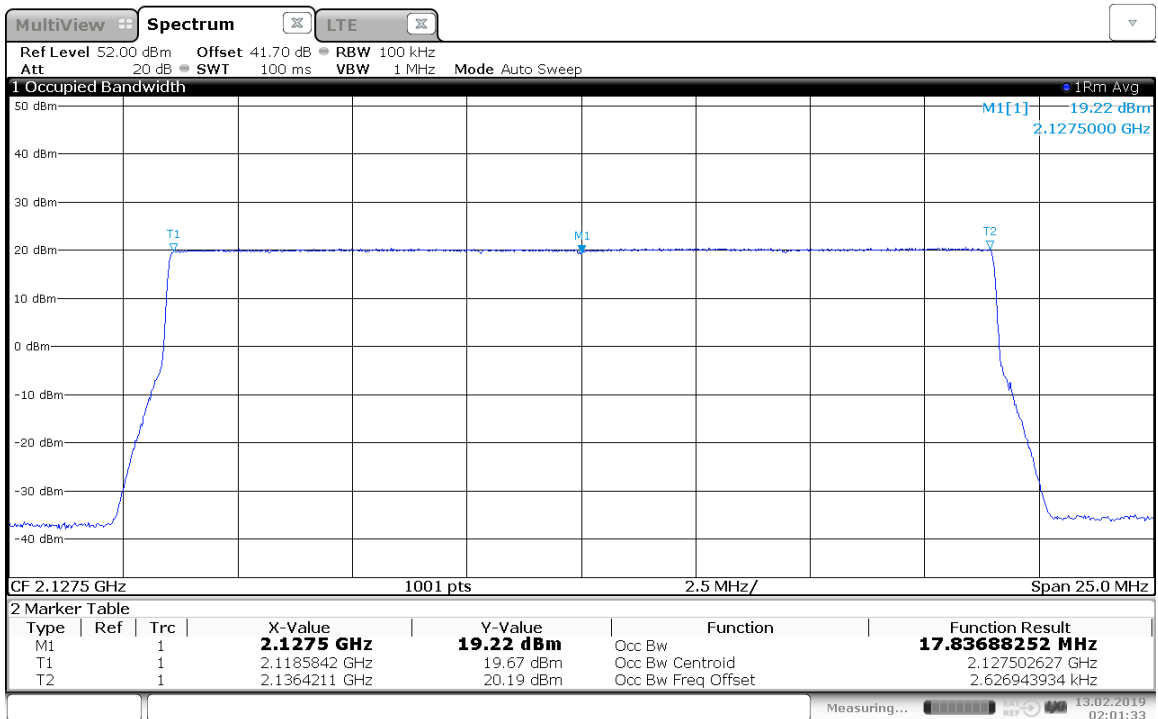


05:10:01 13.02.2019

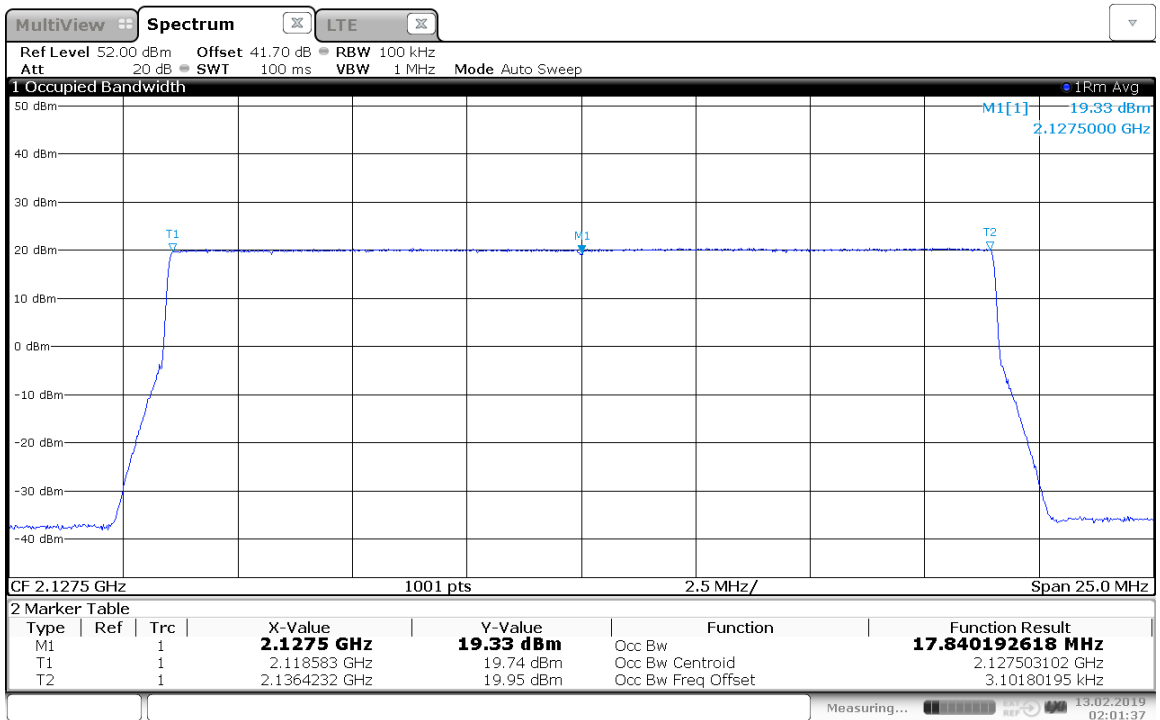
Channel Bandwidth :20M+20M(2127.5MHz & 2152.5MHz)

Port	Carrier1 Center Freq. (MHz)	Carrier1 99% Power Bandwidth (MHz)	Carrier2 Center Freq. (MHz)	Carrier2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2127.5	17.8368	2152.5	17.8384	20
2		17.8401		17.8356	20
3		17.8369		17.8370	20
4		17.8384		17.8377	20

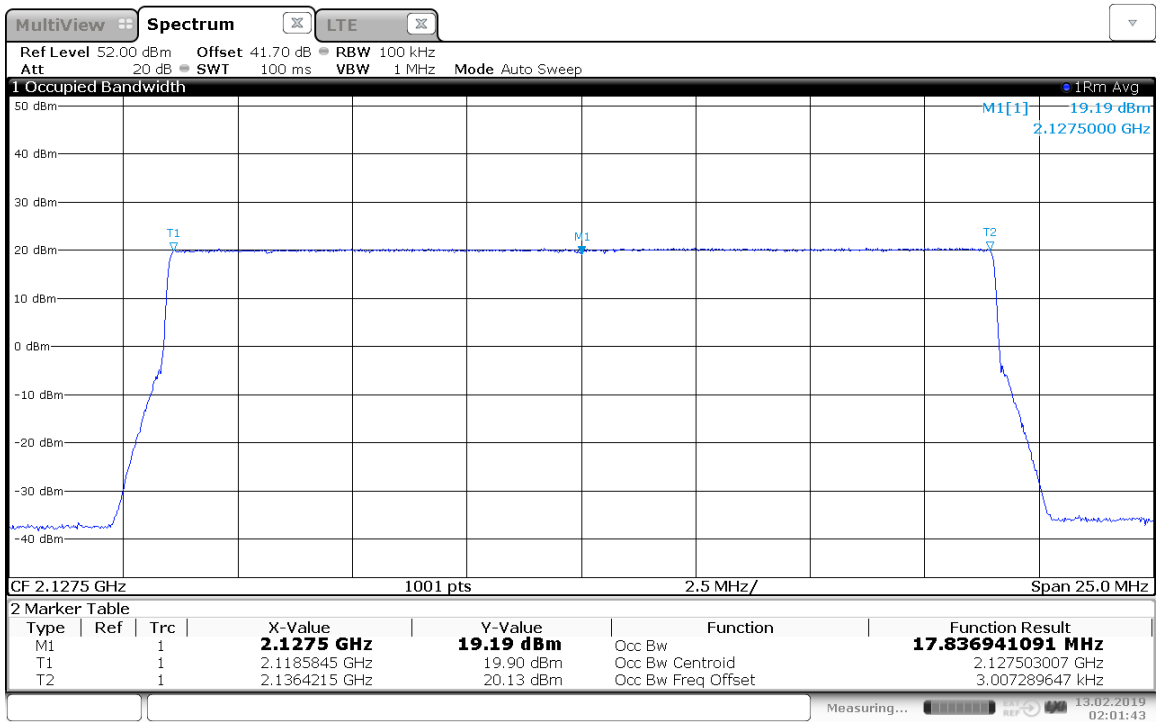
20M -2127.5MHz-Port 1~4:



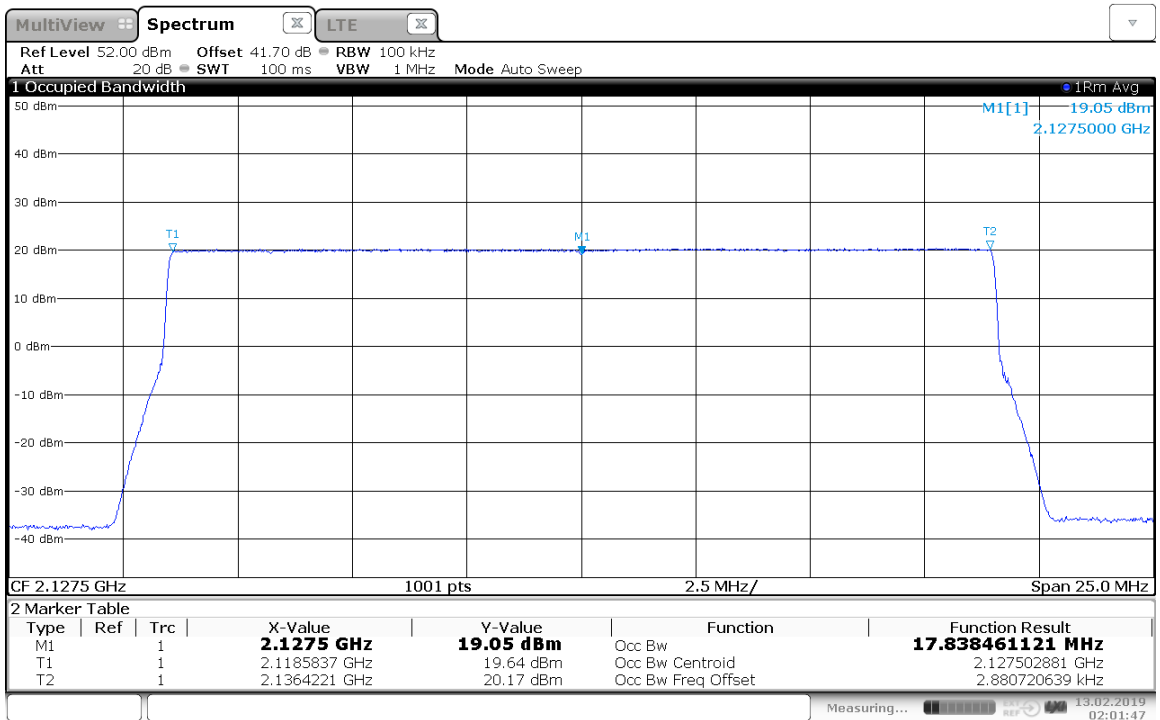
02:01:34 13.02.2019



02:01:38 13.02.2019

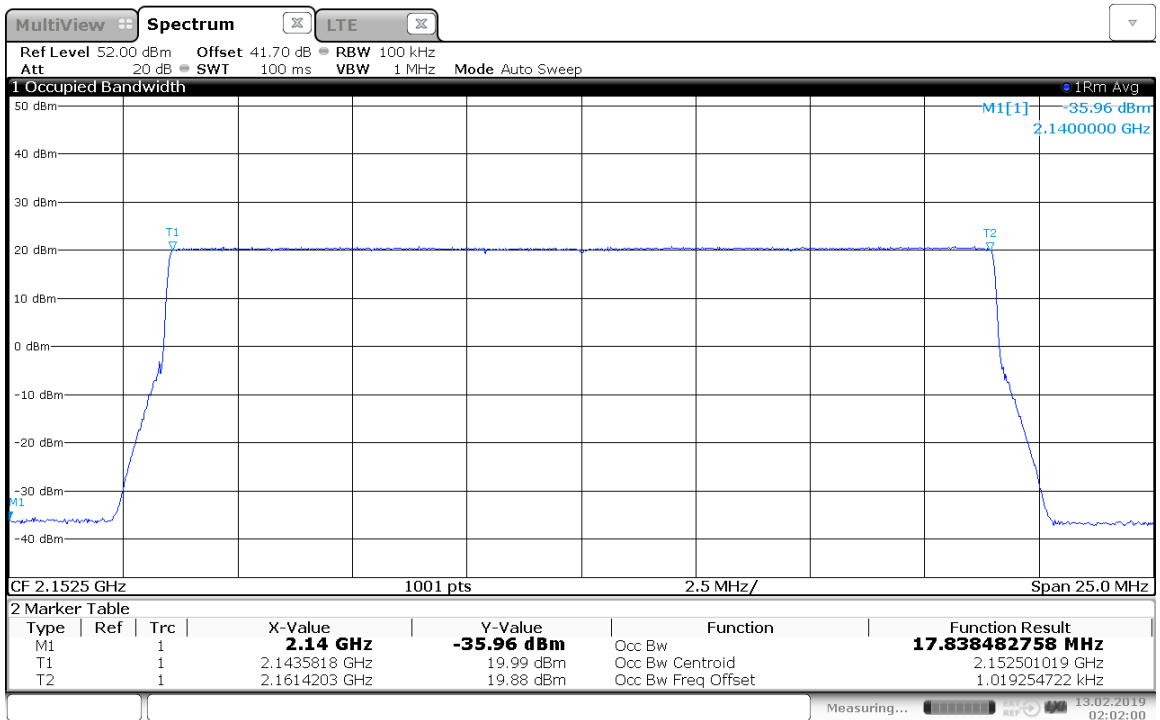


02:01:44 13.02.2019

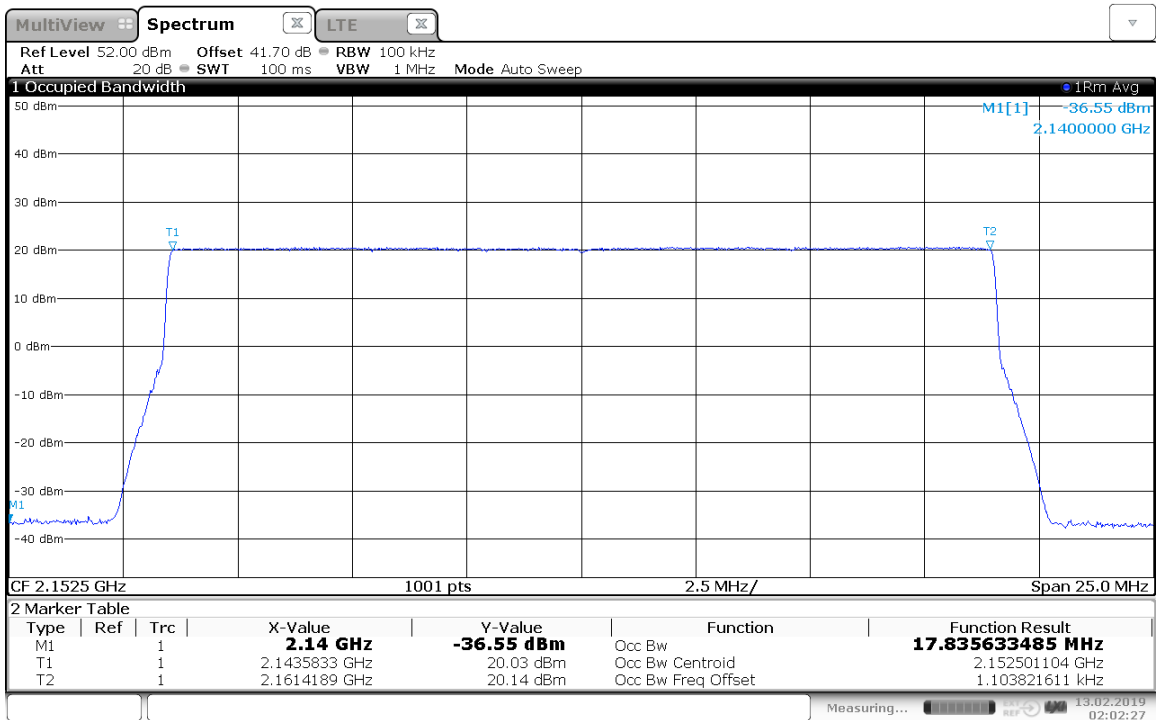


02:01:48 13.02.2019

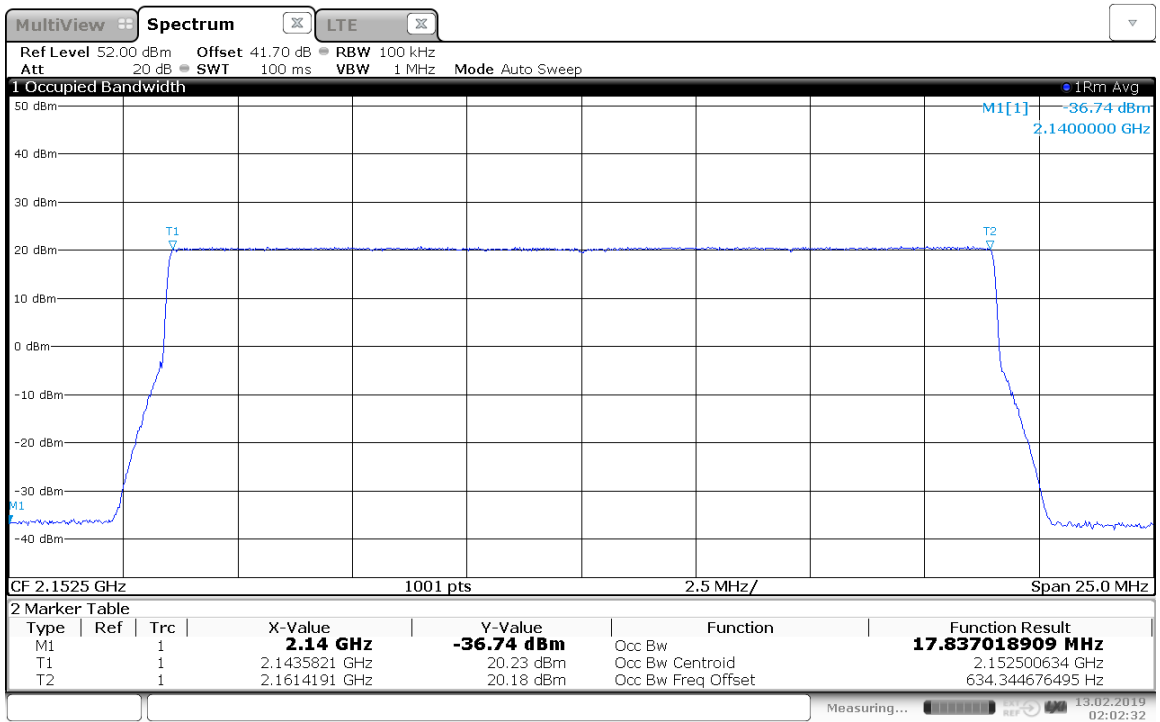
20M -2152.5MHz-Port 1~4:



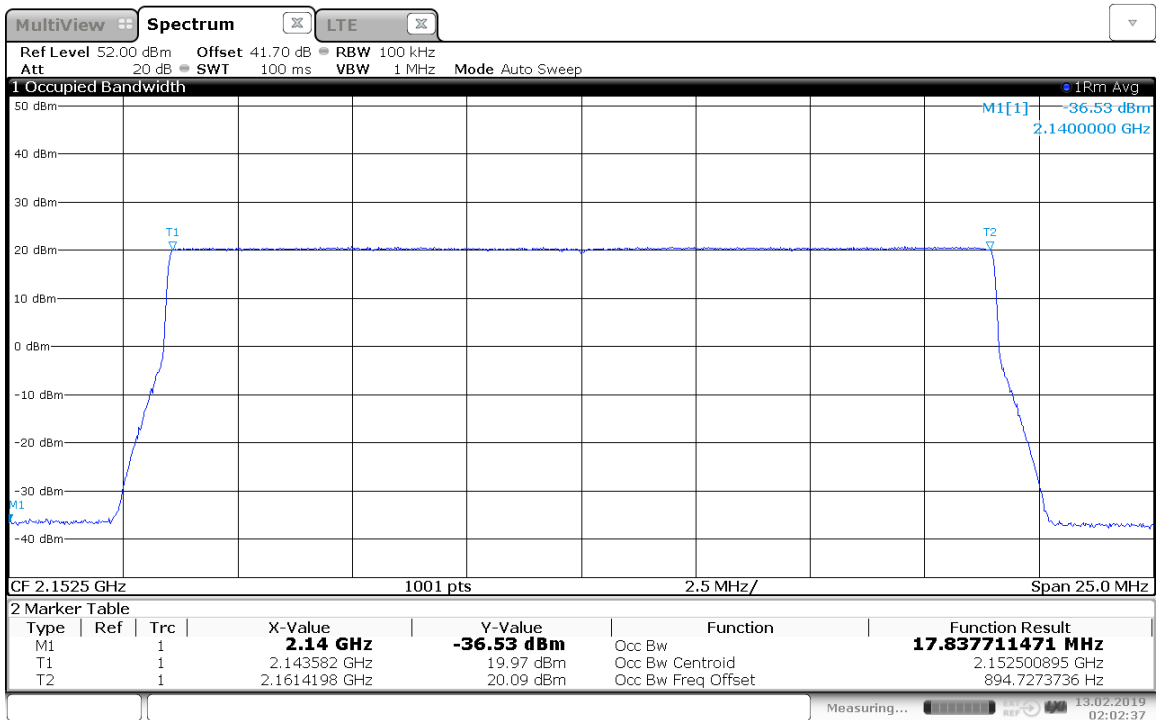
02:02:00 13.02.2019



02:02:27 13.02.2019



02:02:33 13.02.2019

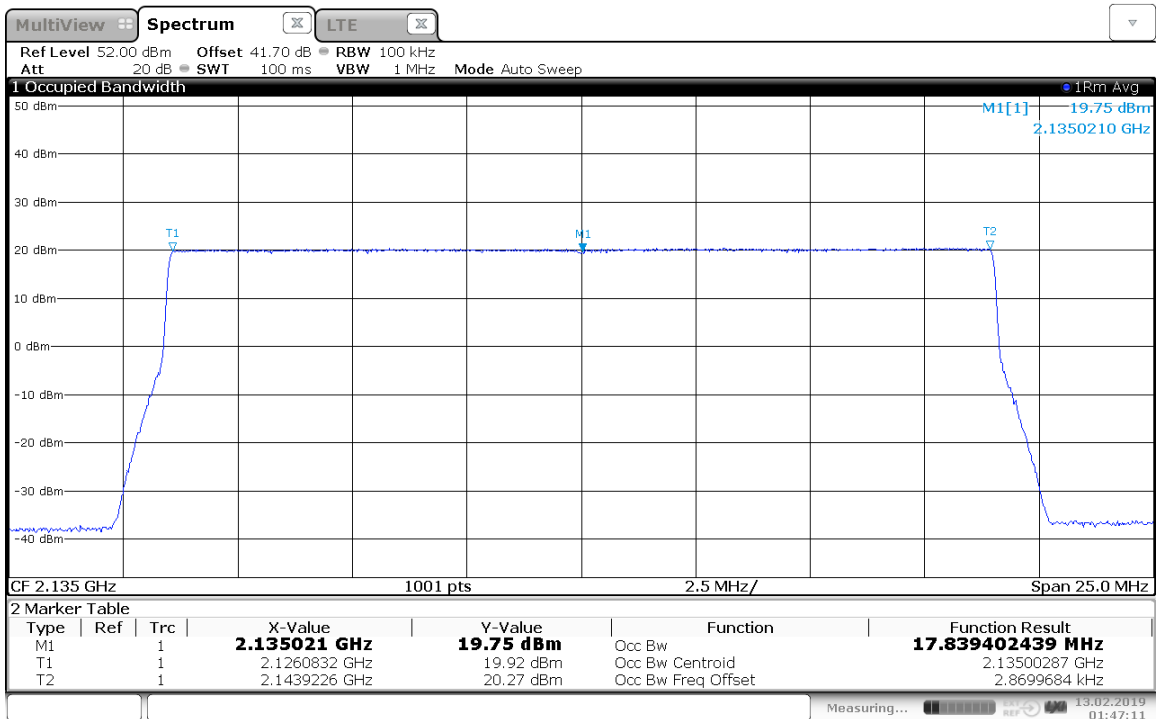


02:02:38 13.02.2019

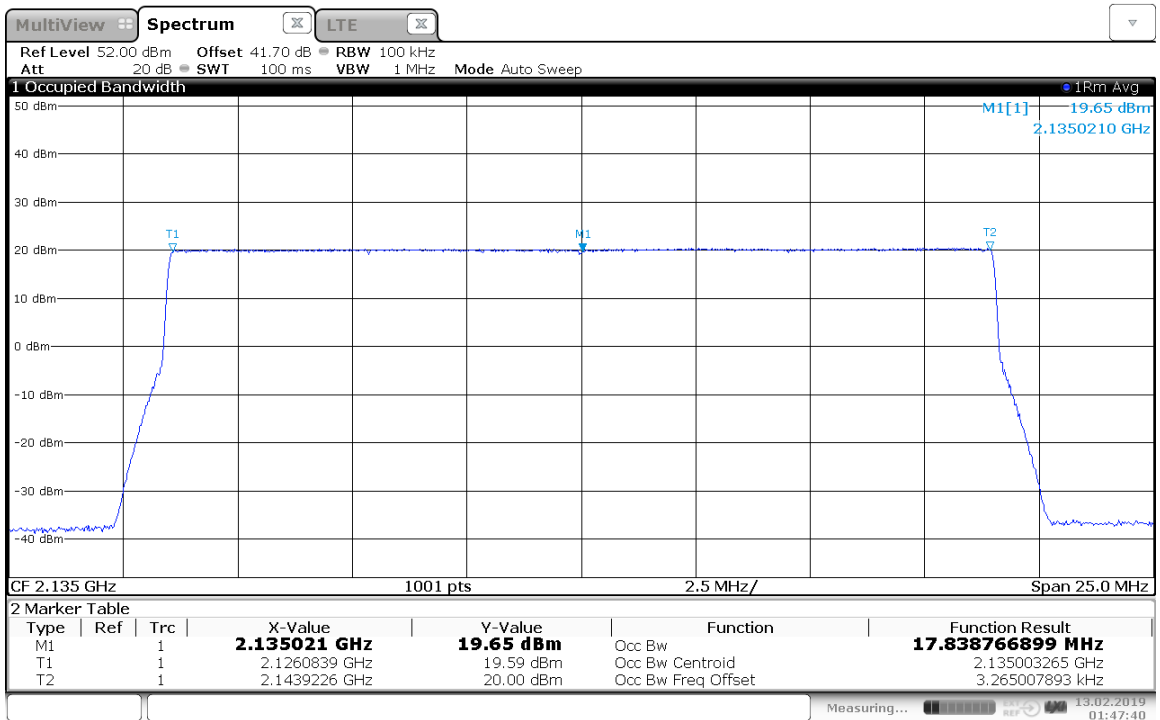
Channel Bandwidth :20M+20M(2135MHz & 2160MHz)

Port	Carrier1 Center Freq. (MHz)	Carrier1 99% Power Bandwidth (MHz)	Carrier2 Center Freq. (MHz)	Carrier2 99% Power Bandwidth (MHz)	Limit (MHz)
1	2135	17.8394	2160	17.8349	20
2		17.8387		17.8358	20
3		17.8421		17.8358	20
4		17.8402		17.8364	20

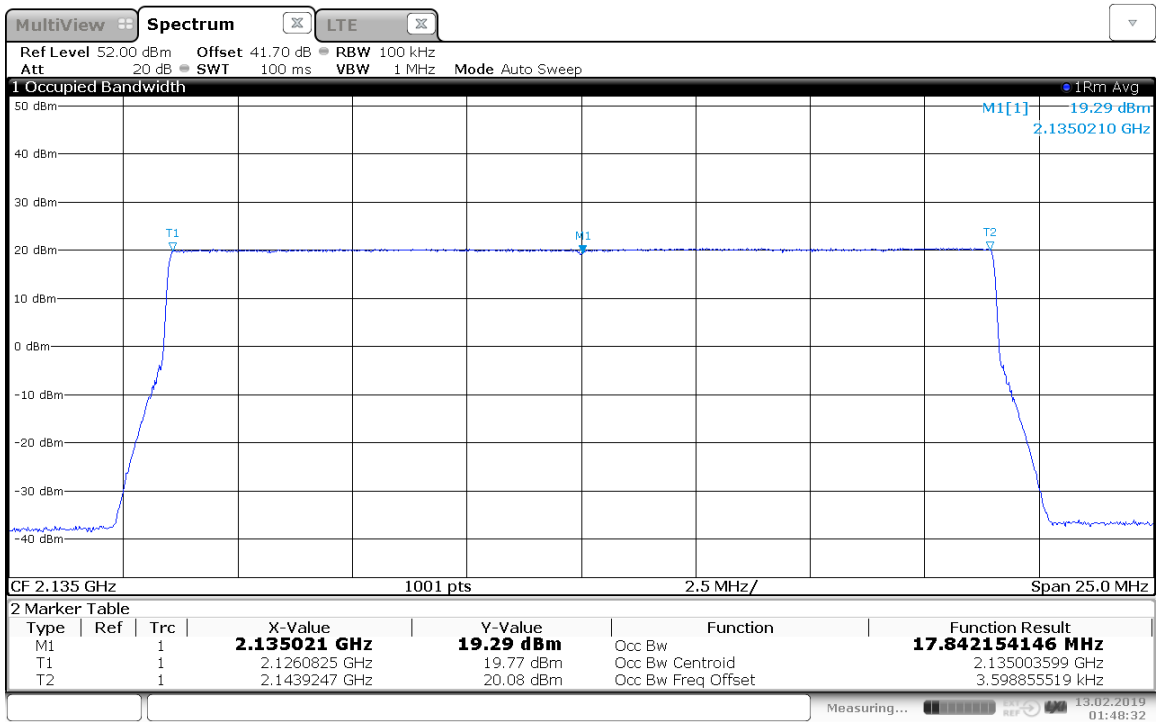
20M -2135MHz-Port 1~4:



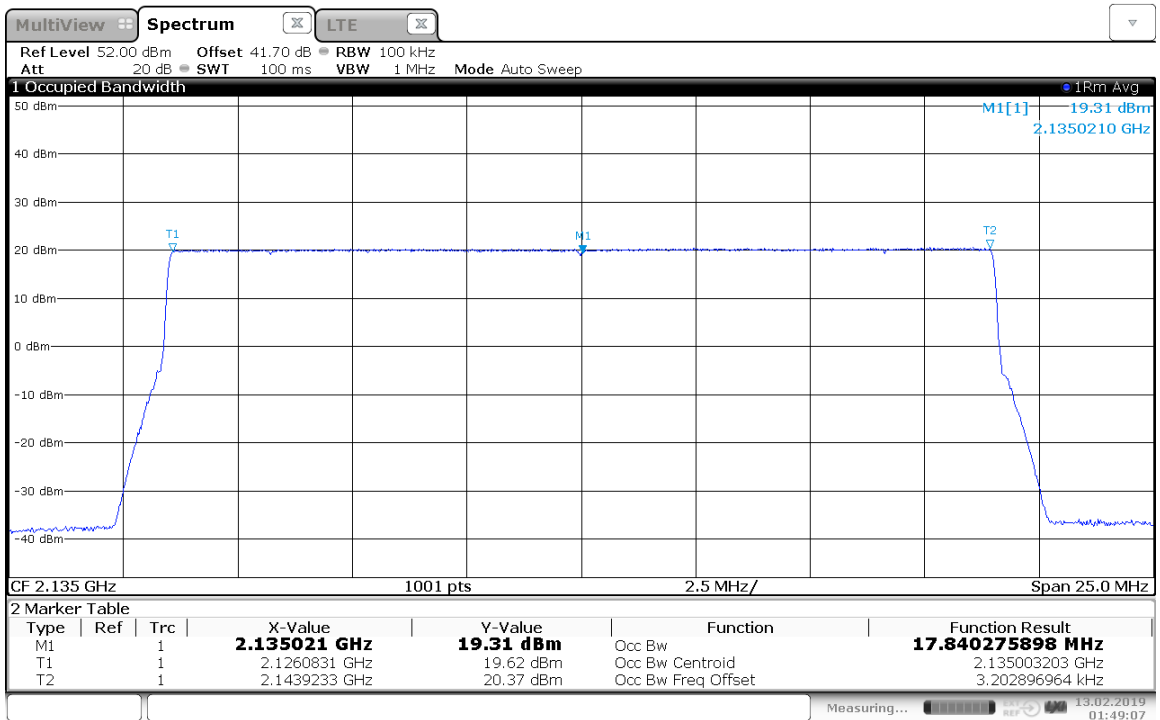
01:47:12 13.02.2019



01:47:41 13.02.2019

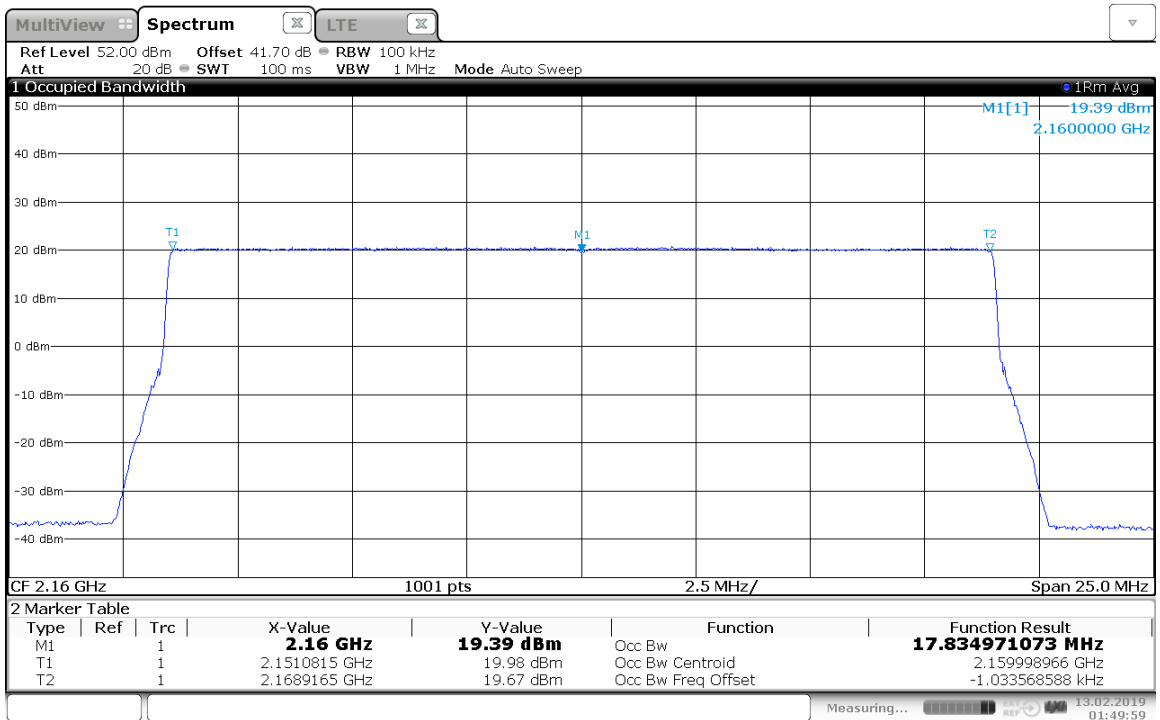


01:48:33 13.02.2019

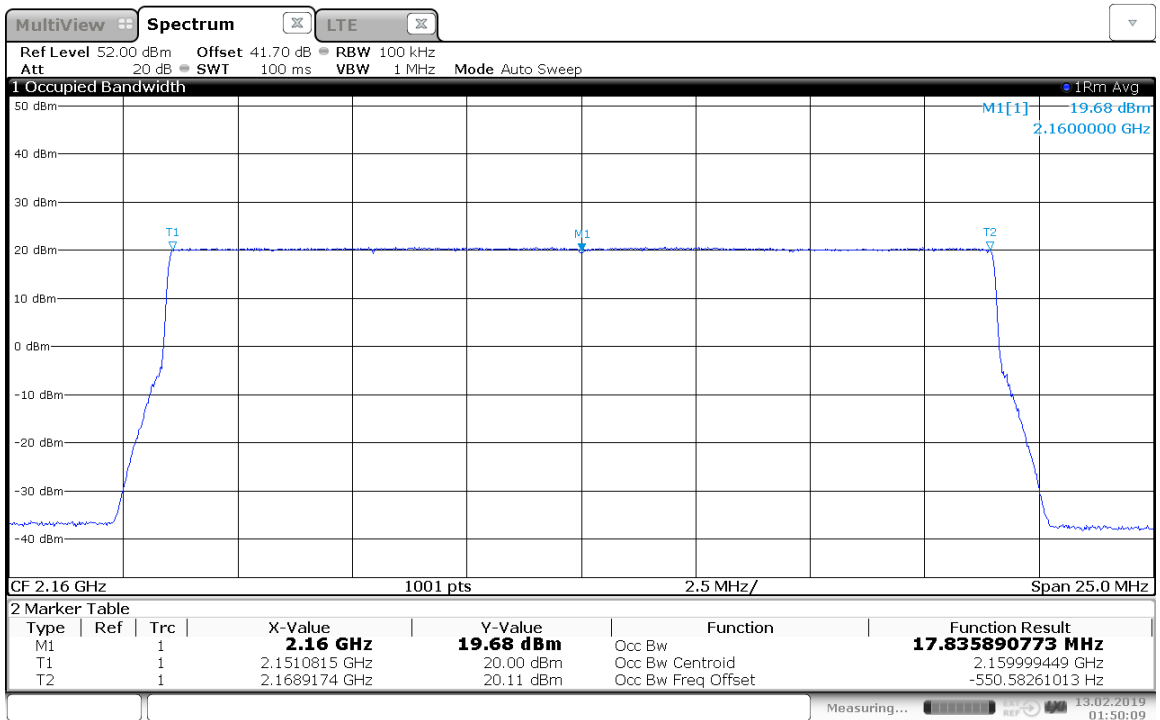


01:49:08 13.02.2019

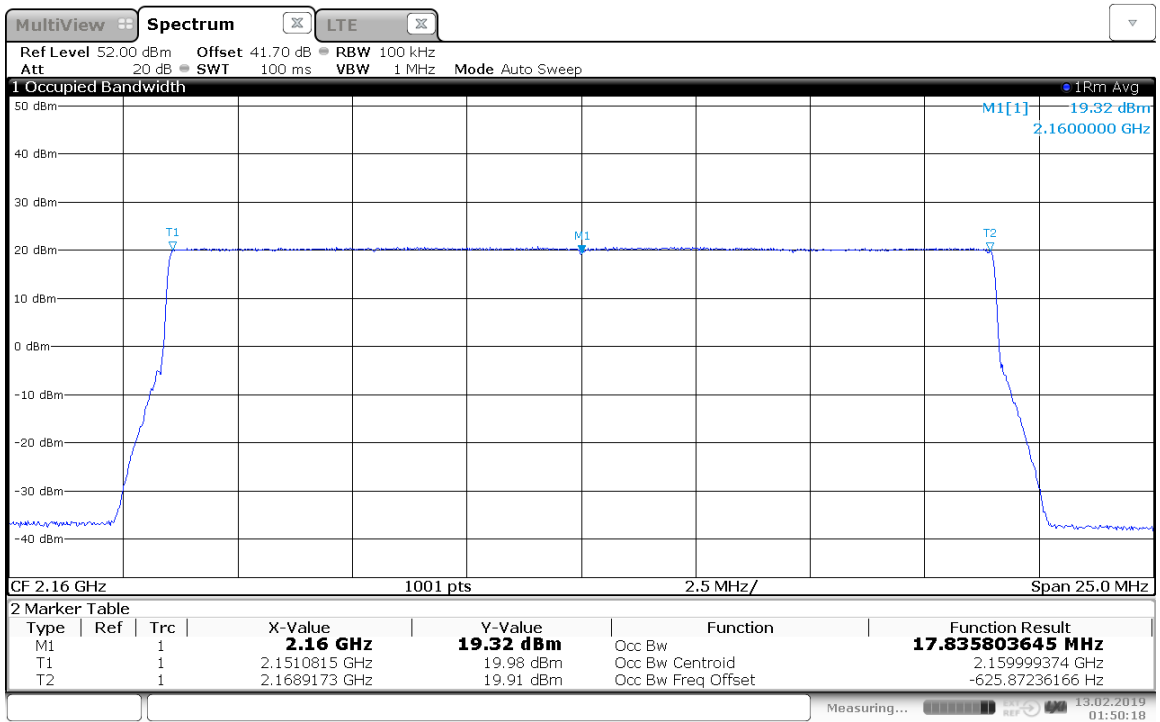
20M -2160MHz-Port 1~4:



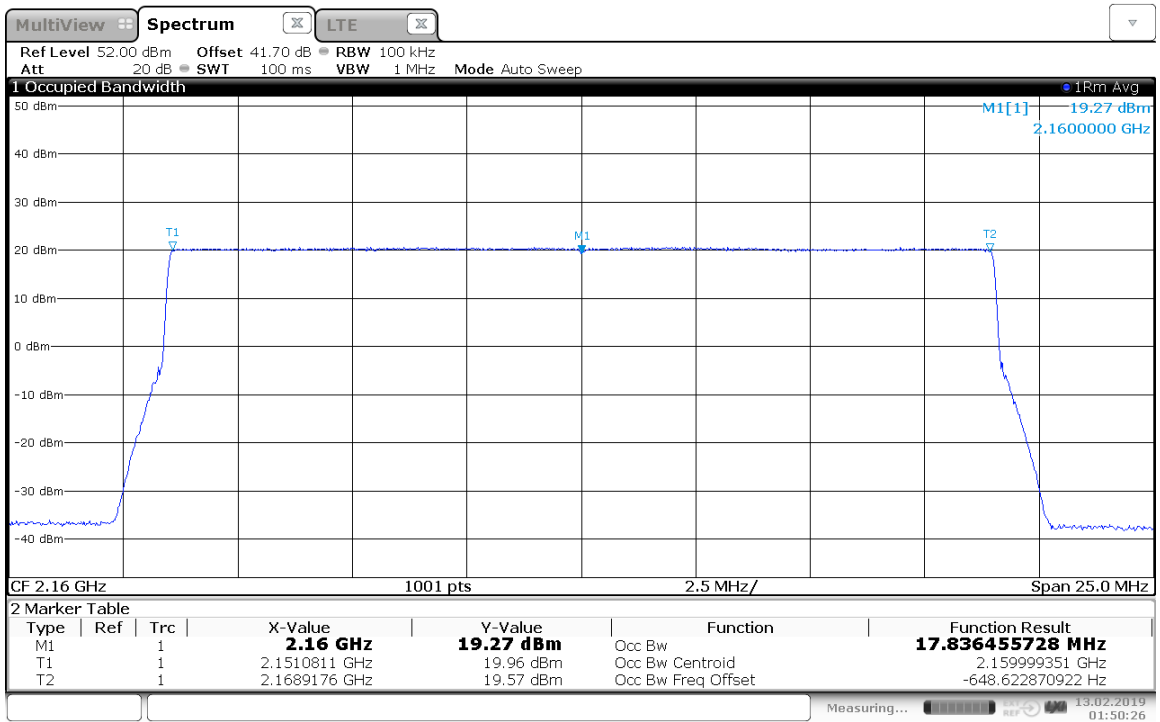
01:49:59 13.02.2019



01:50:09 13.02.2019



01:50:19 13.02.2019



01:50:27 13.02.2019

10. BAND EDGES

10.1. Applicable Standard :

FCC §2.1051, §27.53

10.2. Test Equipment List and Details :

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Signal & Spectrum Analyzer	FSW26	SB12724/01	2018.06.06	2019.06.05
DTS	DTS 40dB Attenuator	DTS100-40-3-1	09112005	2018.07.19	2019.07.19
Radiall	RF Cable	1807188	---	---	---

***statement of traceability:** SMQ attests that all calibration has been performed per the A2LA requirements, traceable to NIM.

10.3. Test Procedure:

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.

10.4. Environmental Conditions :

Temperature:	23 ° C
Relative Humidity:	42%
ATM Pressure:	1020mbar

10.5. Test Result: Pass

10.6. Test Mode: Transmitting LTE

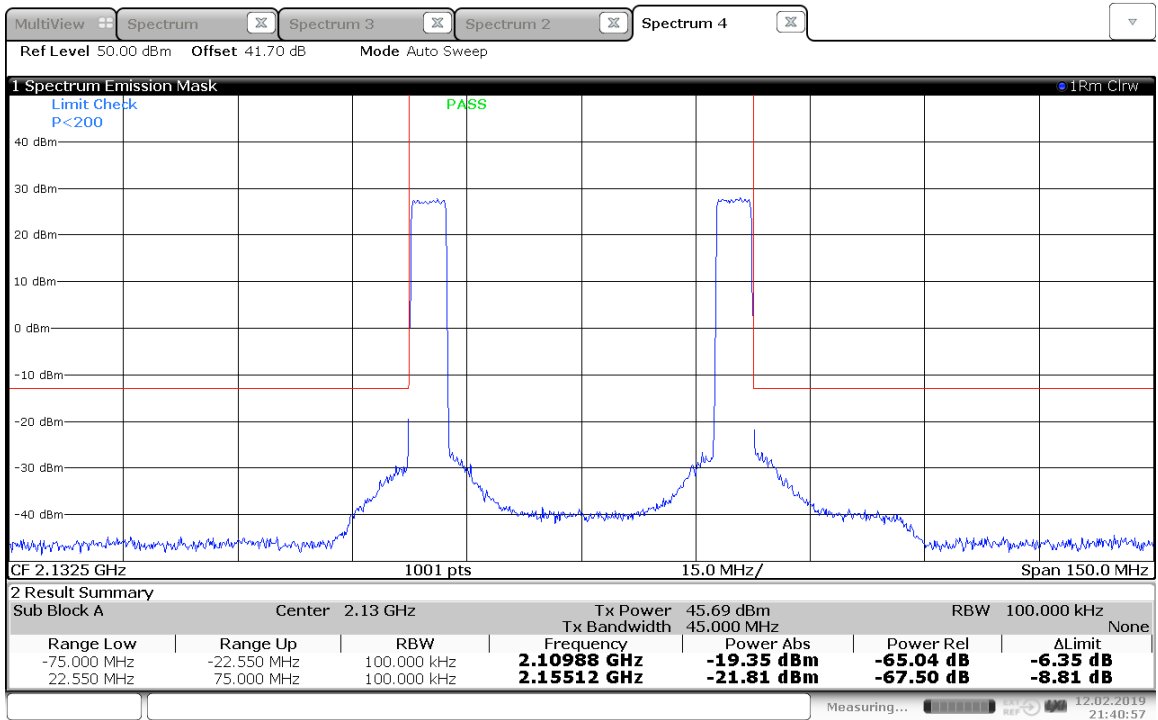
10.7. Test Data:

Dual Carrier:

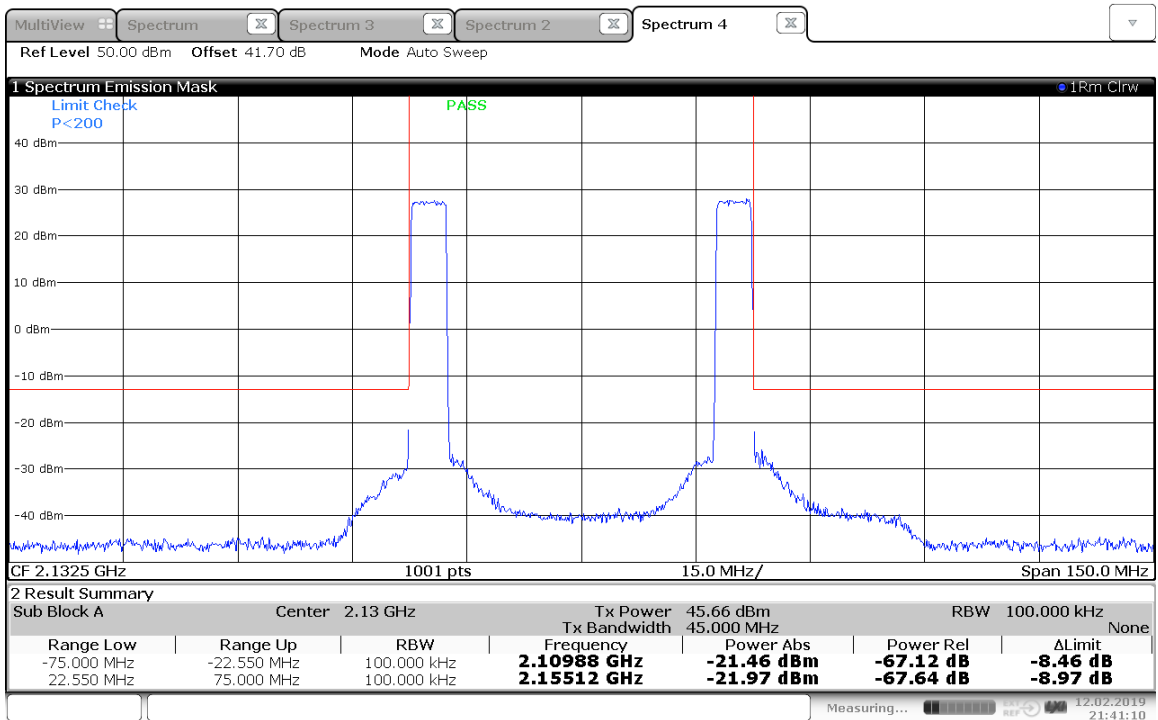
Channel Bandwidth :5M+5M

Port	RF Carrier Center Frequency. (MHz)	Max bandedge Emission (dBm)	Limit (dBm)
1	2132.5	-19.35	-13
	2140	-20.34	-13
	2147.5	-22.23	-13
2	2132.5	-21.46	-13
	2140	-21.03	-13
	2147.5	-19.70	-13
3	2132.5	-22.43	-13
	2140	-22.18	-13
	2147.5	-22.21	-13
4	2132.5	-22.54	-13
	2140	-22.46	-13
	2147.5	-23.07	-13

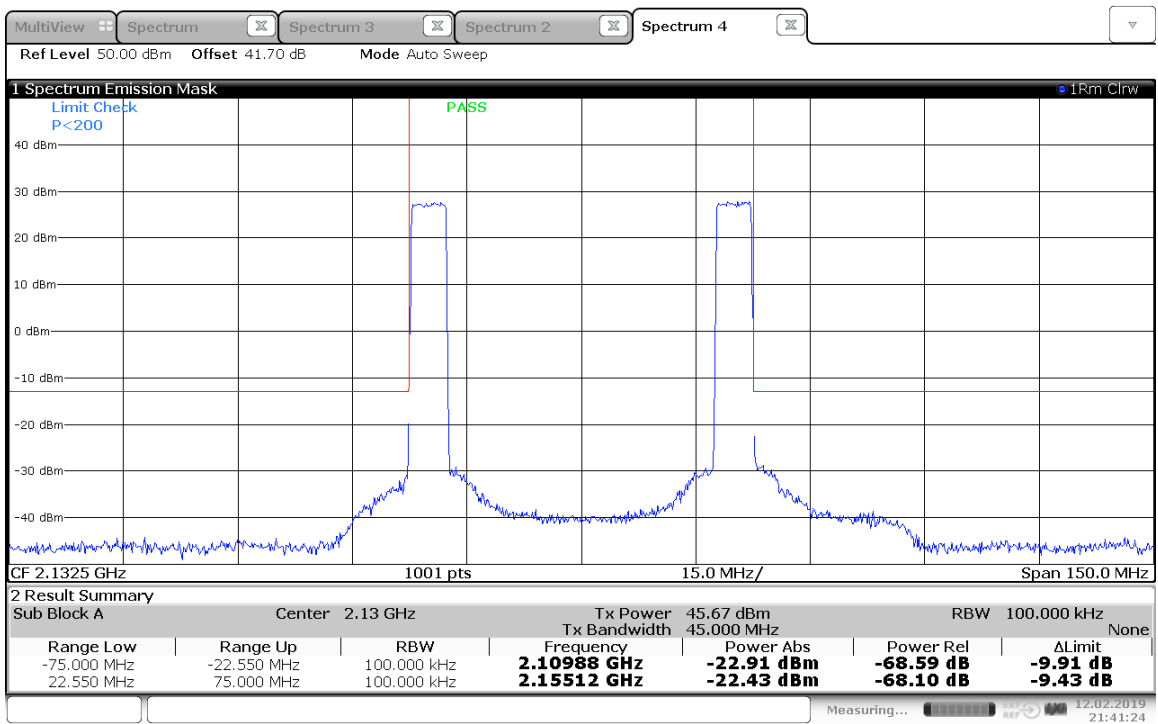
5M+5M -2132.5MHz-Port 1~4:



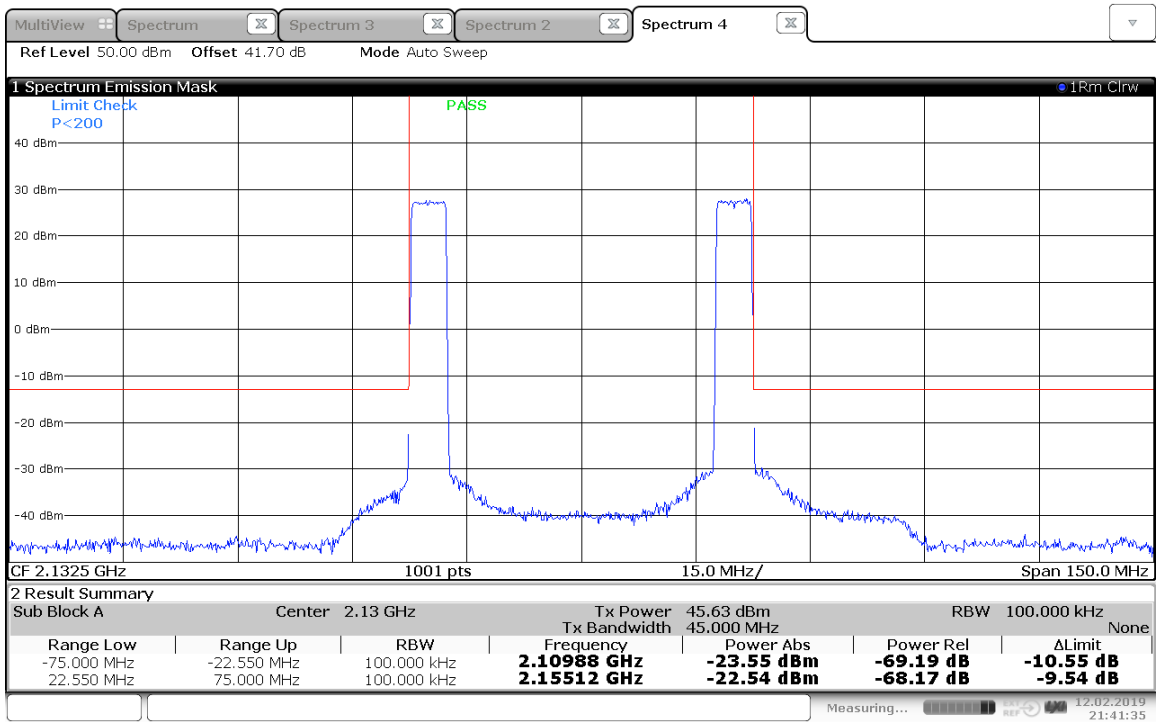
21:40:58 12.02.2019



21:41:11 12.02.2019

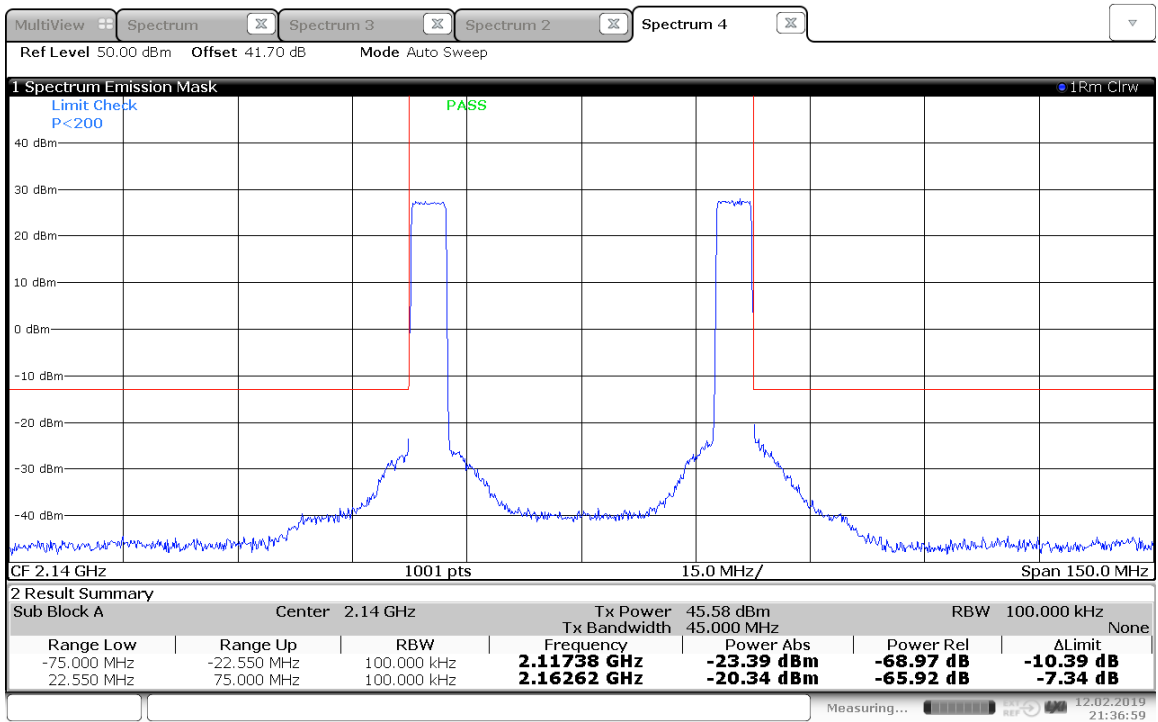


21:41:25 12.02.2019

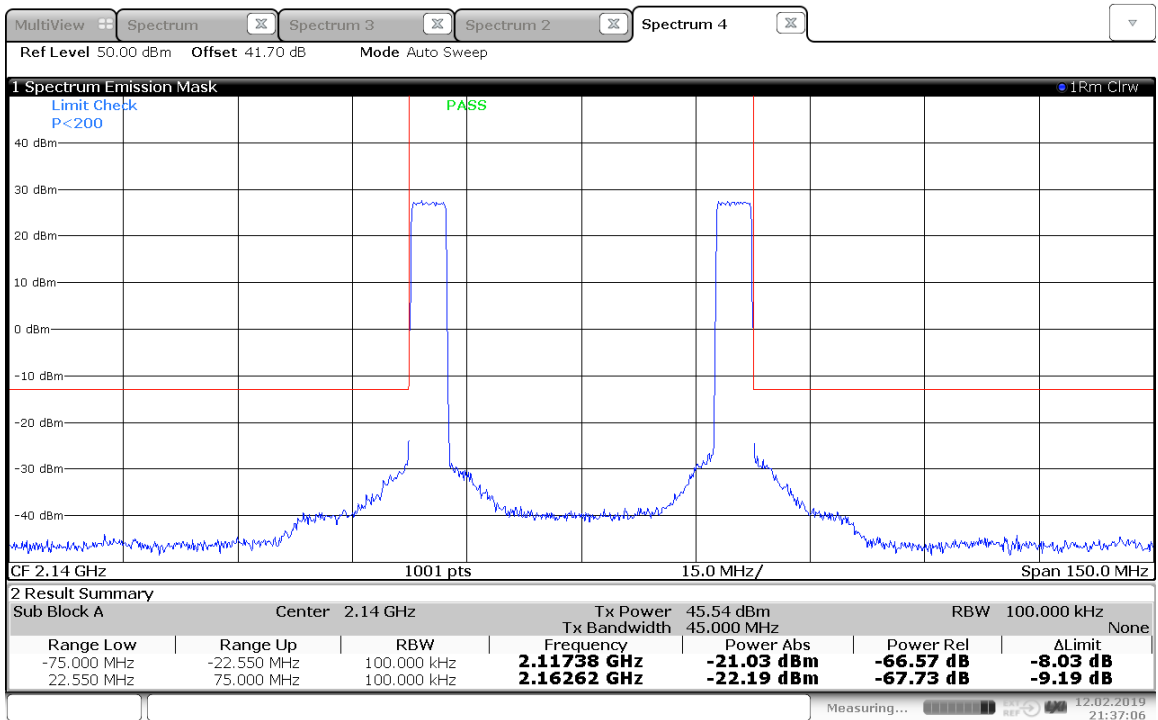


21:41:36 12.02.2019

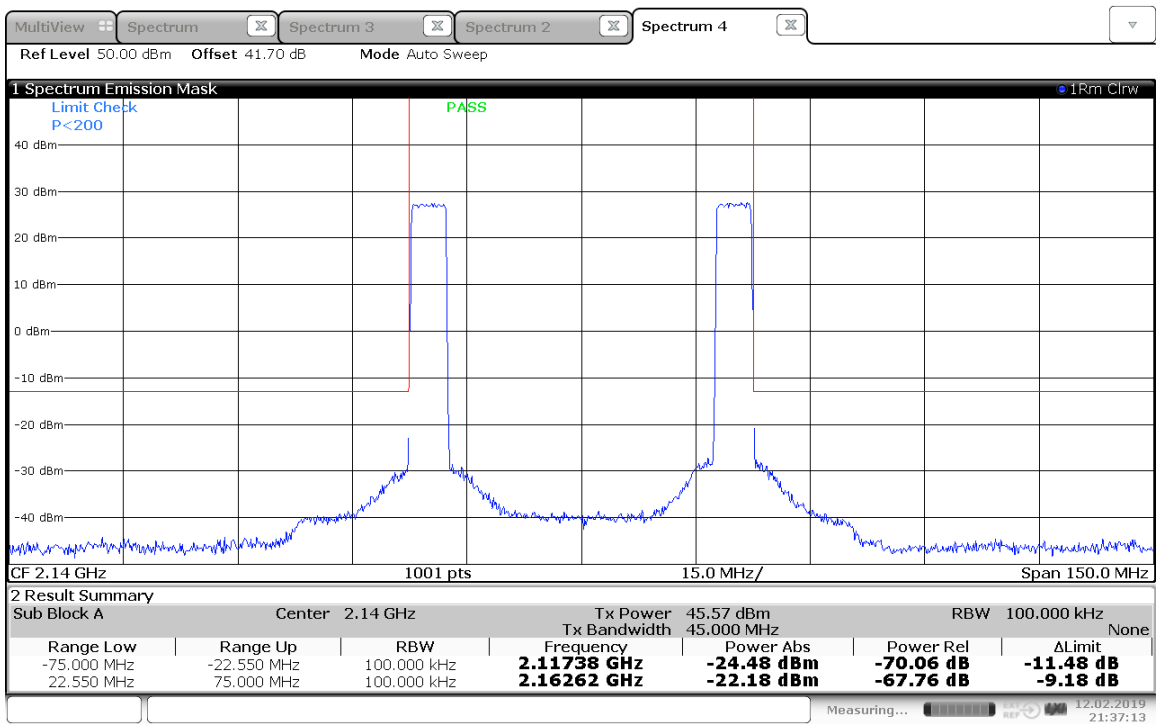
5M+5M -2140MHz-Port 1~4:



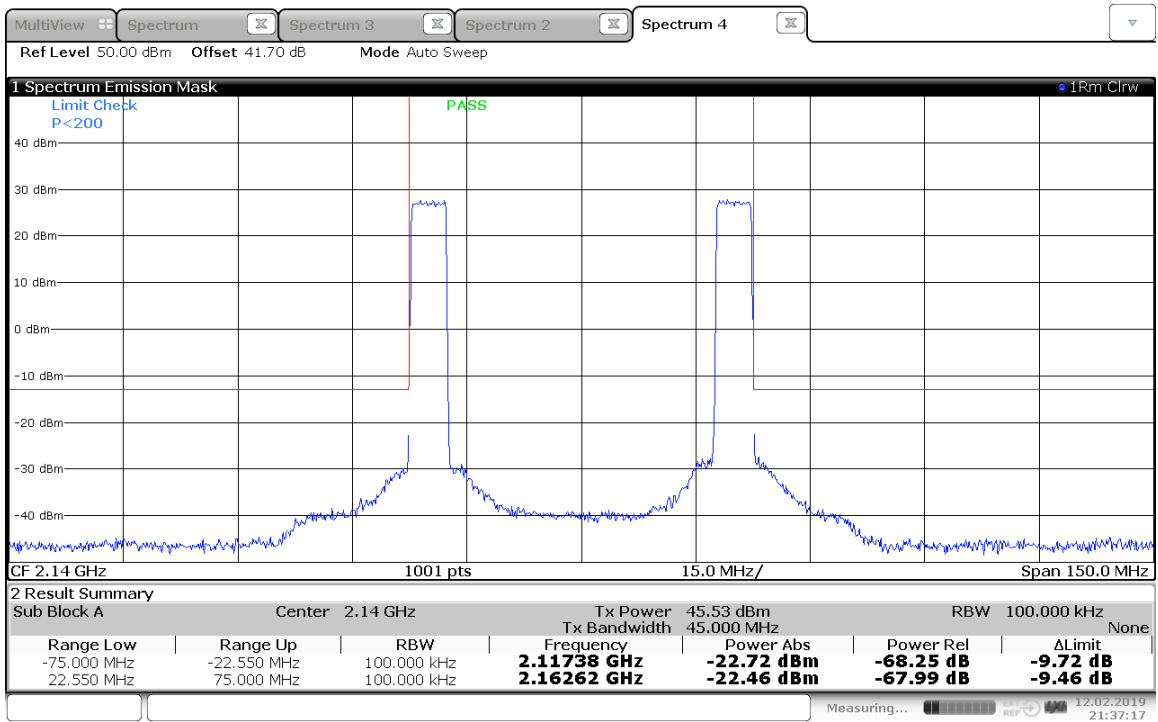
21:36:59 12.02.2019



21:37:07 12.02.2019

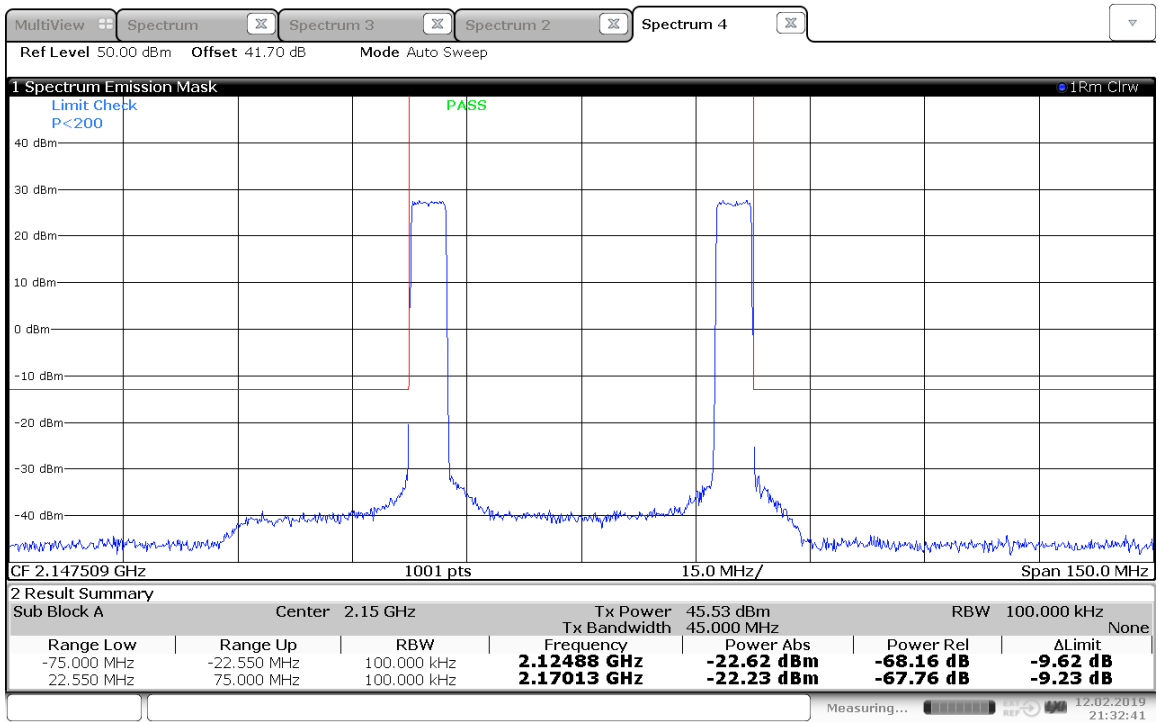


21:37:13 12.02.2019

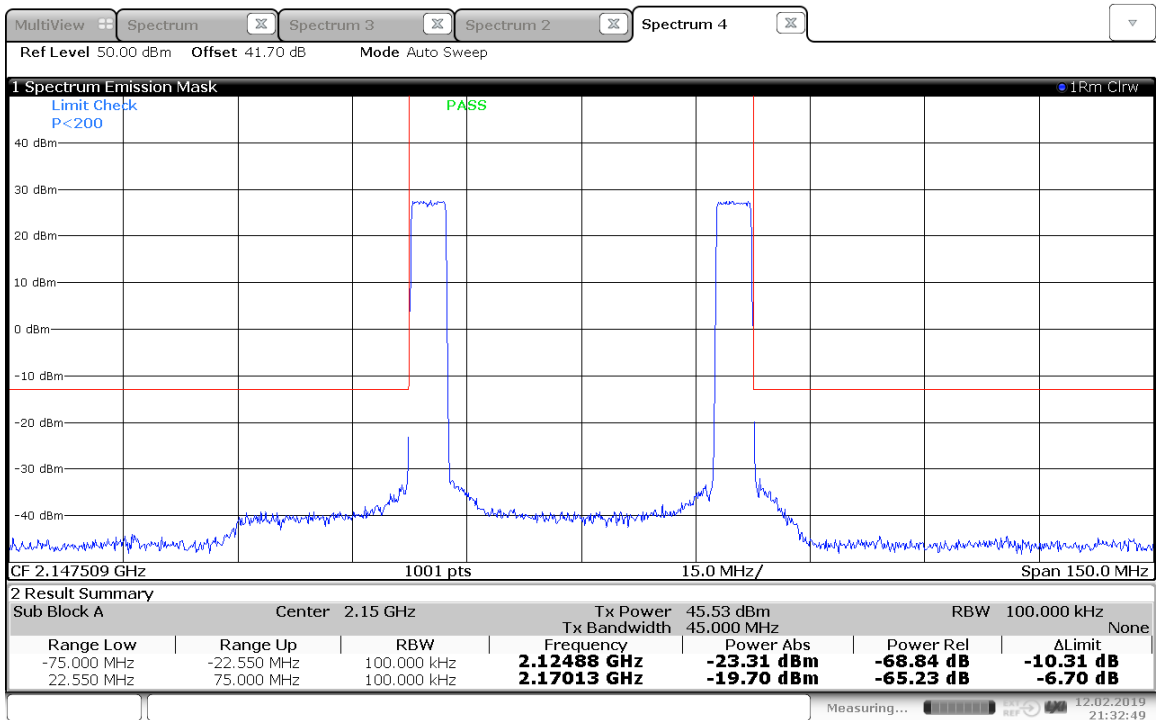


21:37:17 12.02.2019

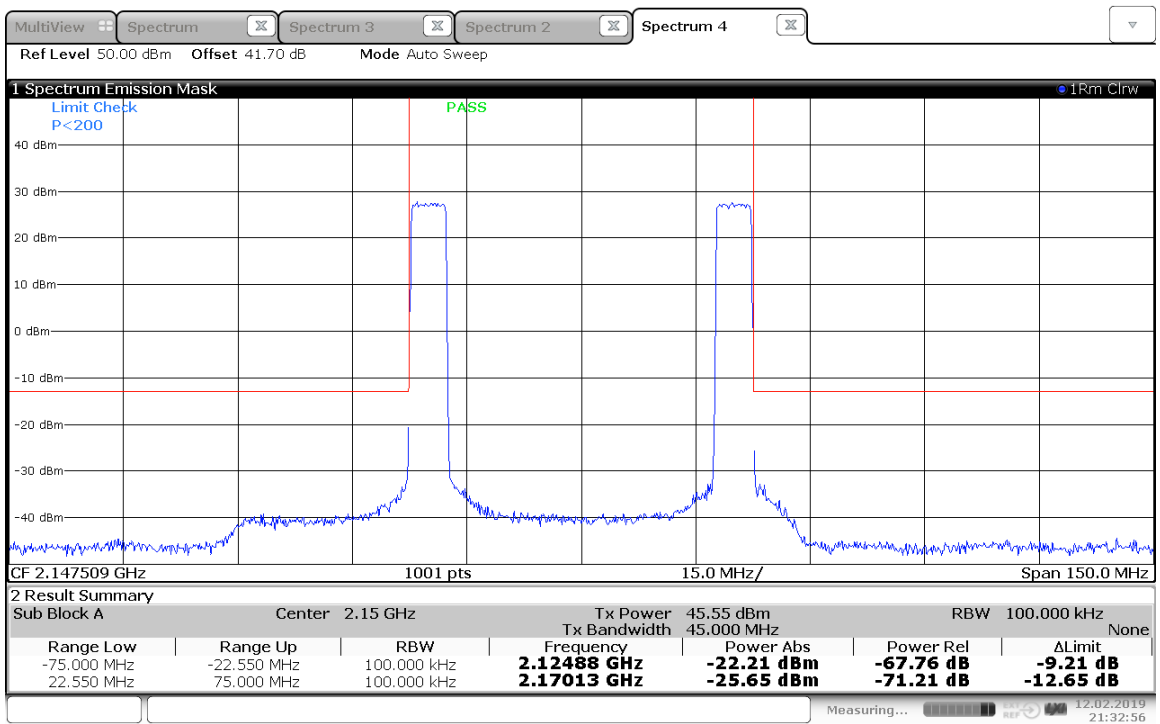
5M+5M -2147.5MHz-Port 1~4:



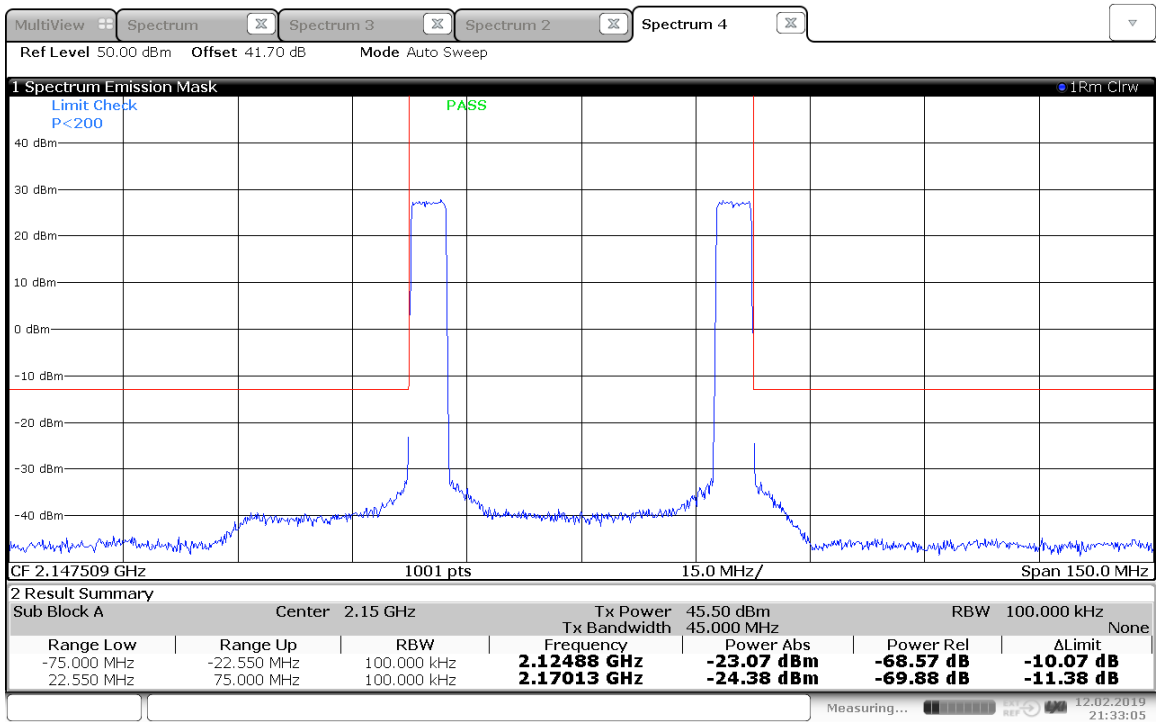
21:32:41 12.02.2019



21:32:50 12.02.2019



21:32:57 12.02.2019

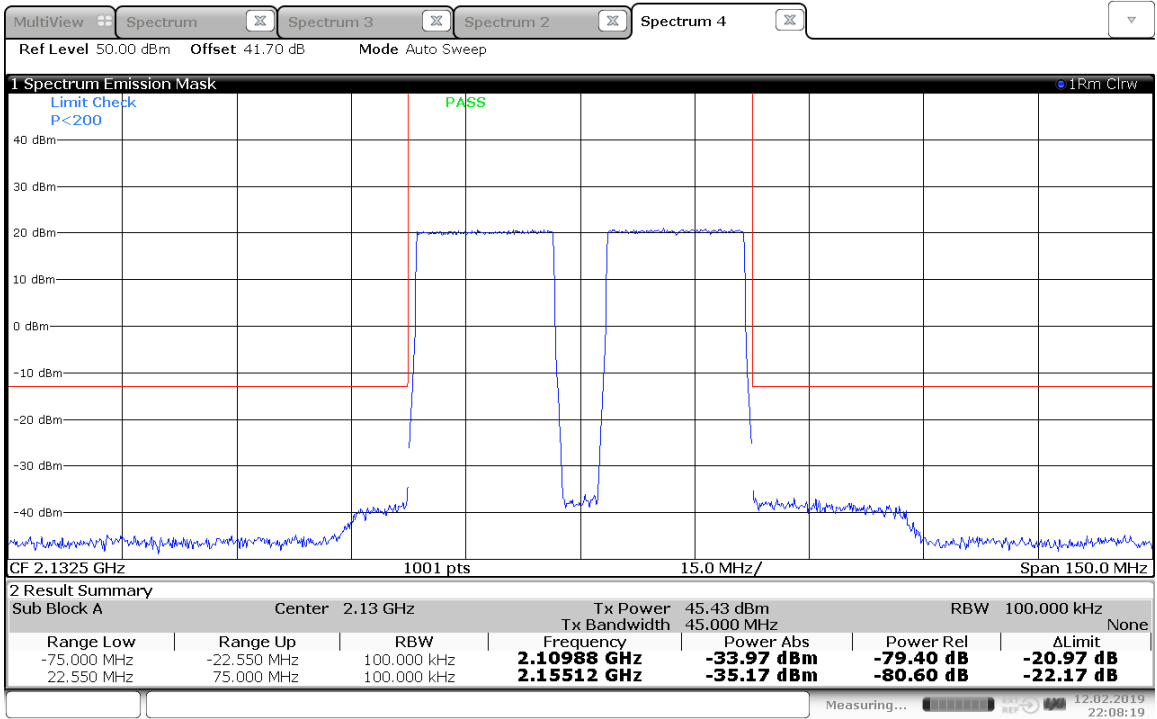


21:33:05 12.02.2019

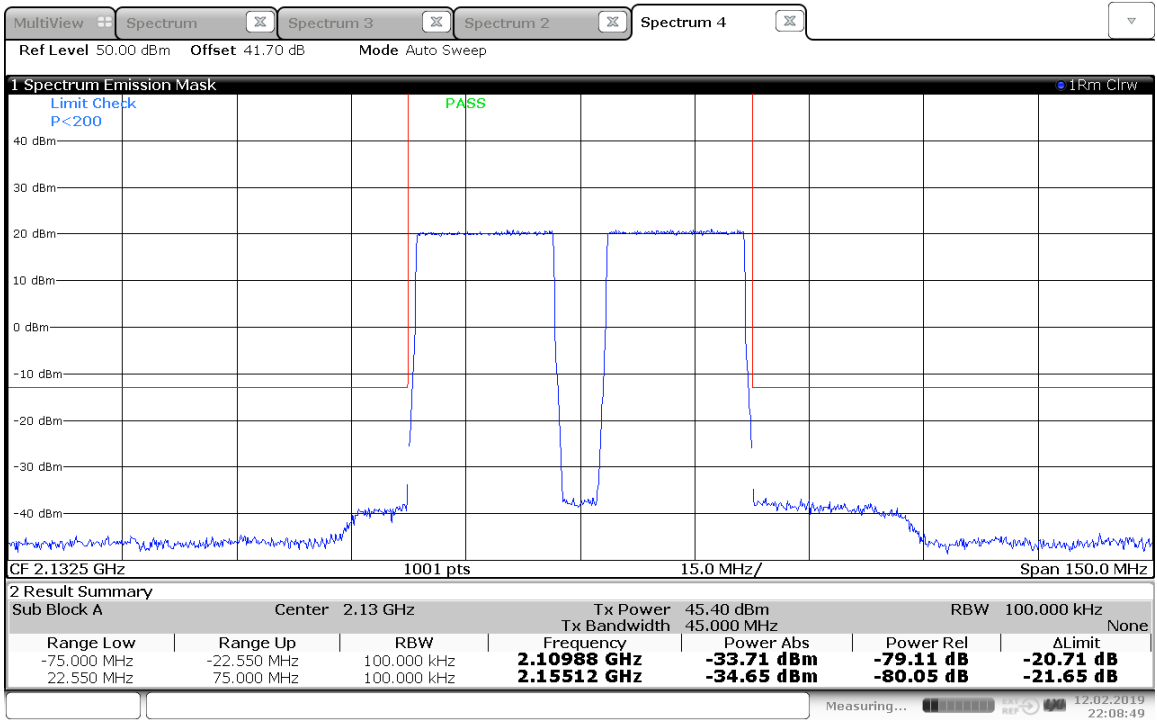
Channel Bandwidth :20M+20M

Port	RF Carrier Center Frequency. (MHz)	Max bandedge Emission (dBm)	Limit (dBm)
1	2132.5	-33.97	-13
	2140	-32.89	-13
	2147.5	-34.88	-13
2	2132.5	-33.71	-13
	2140	-33.17	-13
	2147.5	-33.19	-13
3	2132.5	-35.05	-13
	2140	-34.34	-13
	2147.5	-34.14	-13
4	2132.5	-33.68	-13
	2140	-33.00	-13
	2147.5	-33.87	-13

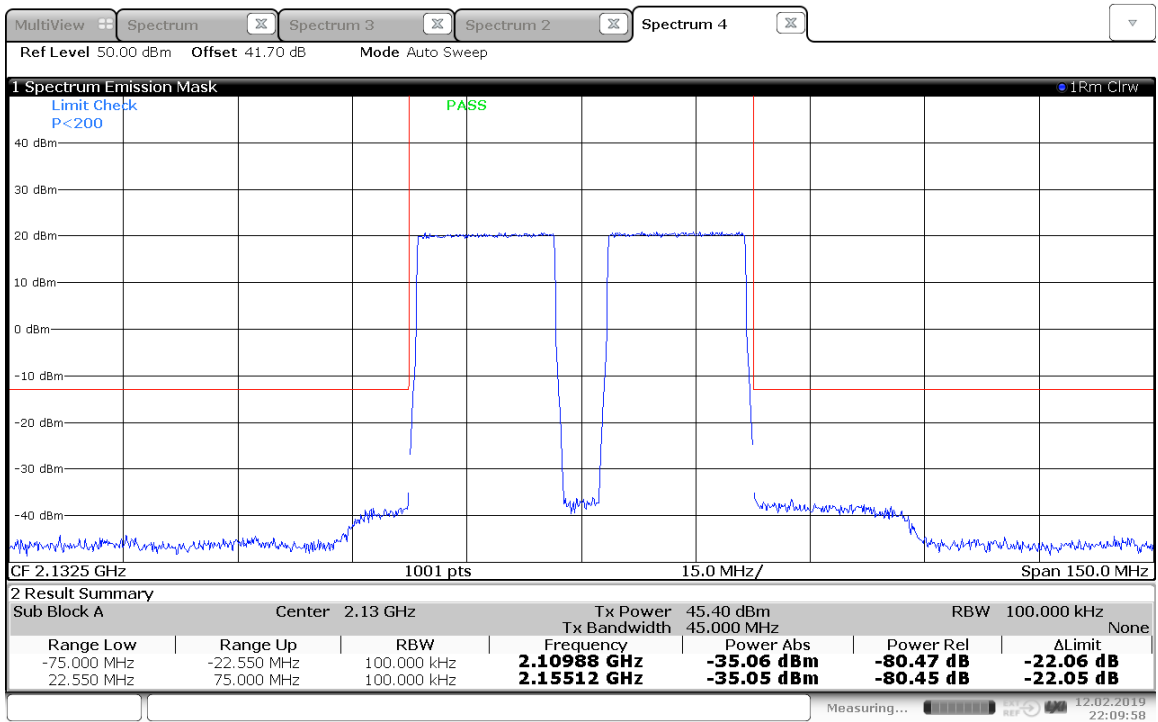
20M+20M -2132.5MHz-Port 1~4:



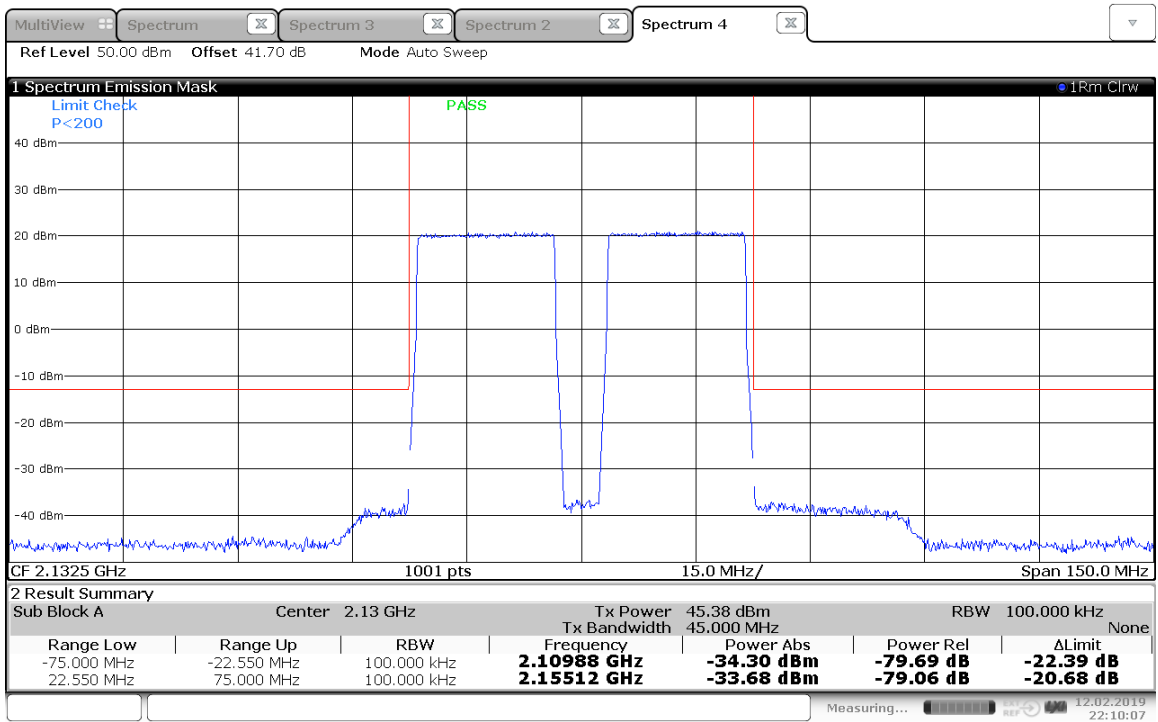
22:08:20 12.02.2019



22:08:50 12.02.2019

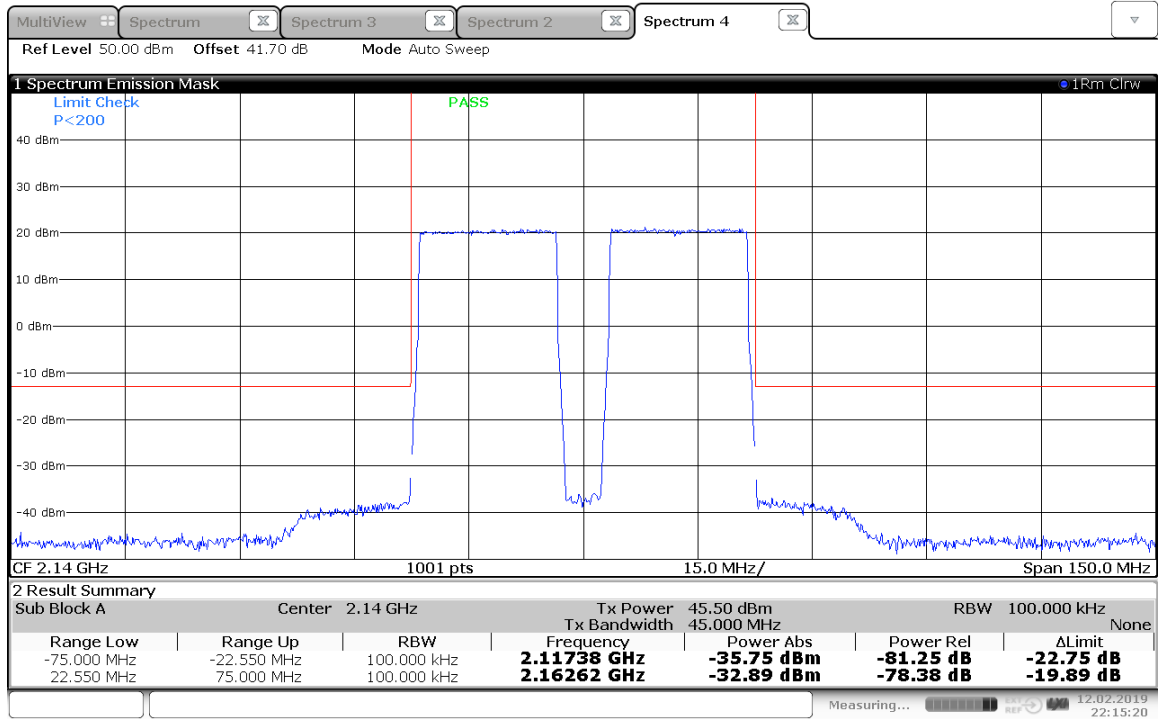


22:09:58 12.02.2019

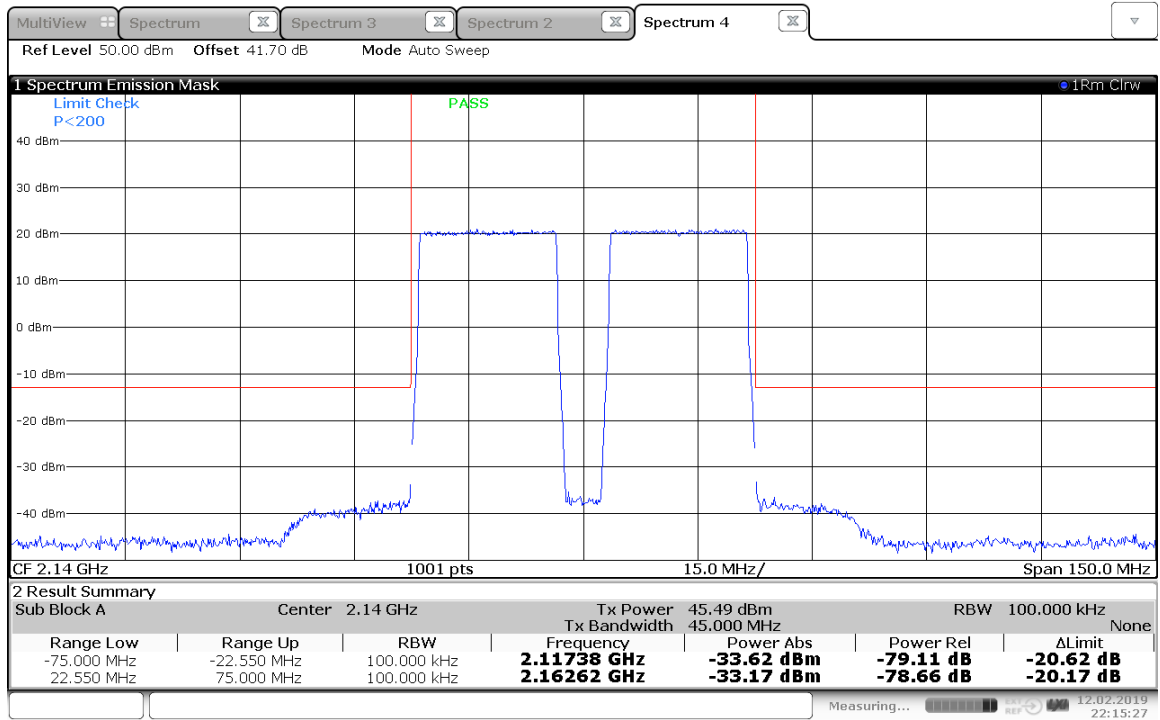


22:10:08 12.02.2019

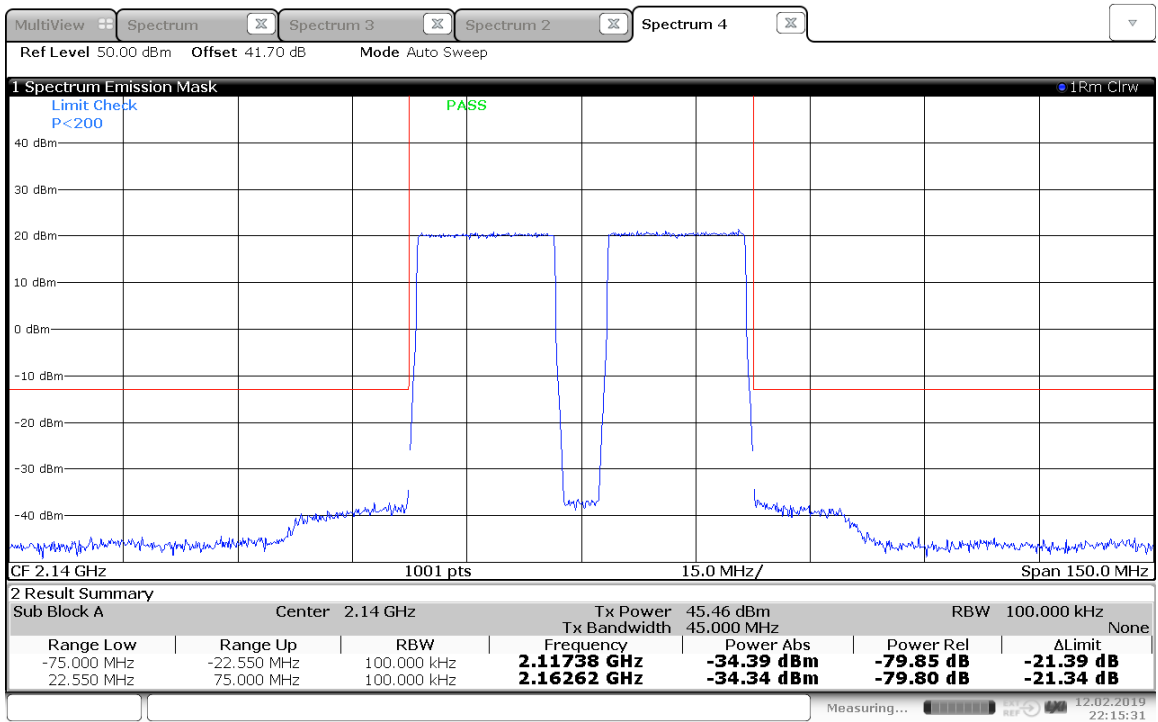
20M+20M -2140MHz-Port 1~4:



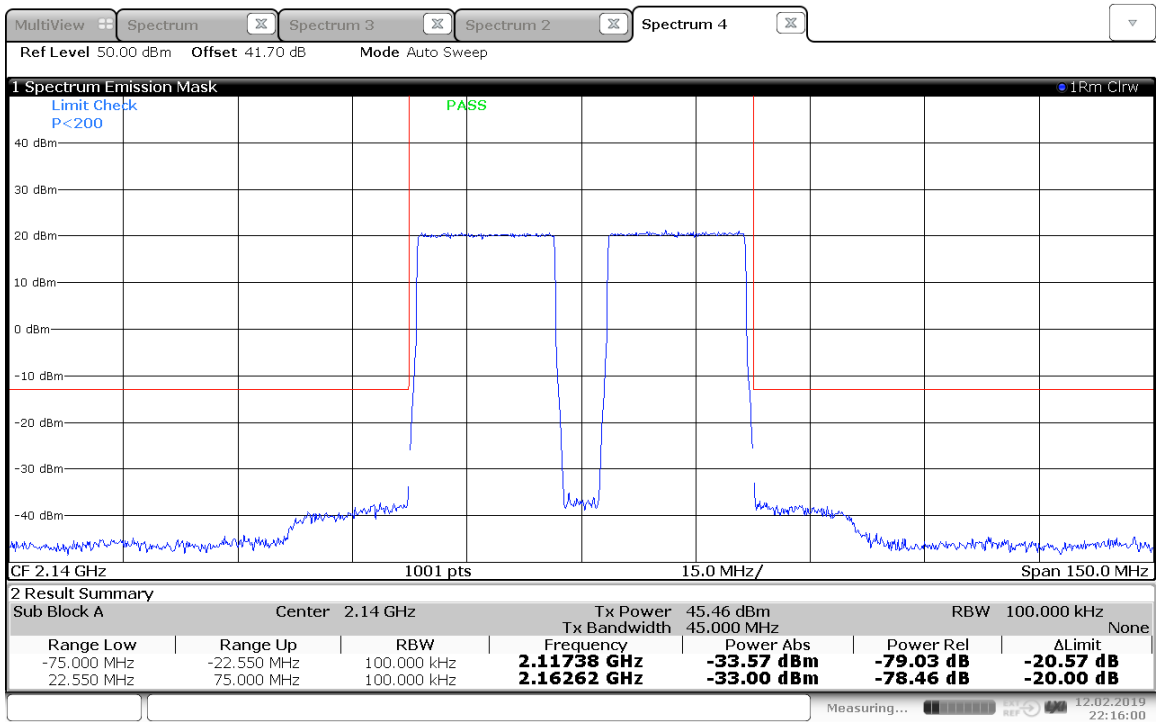
22:15:21 12.02.2019



22:15:27 12.02.2019

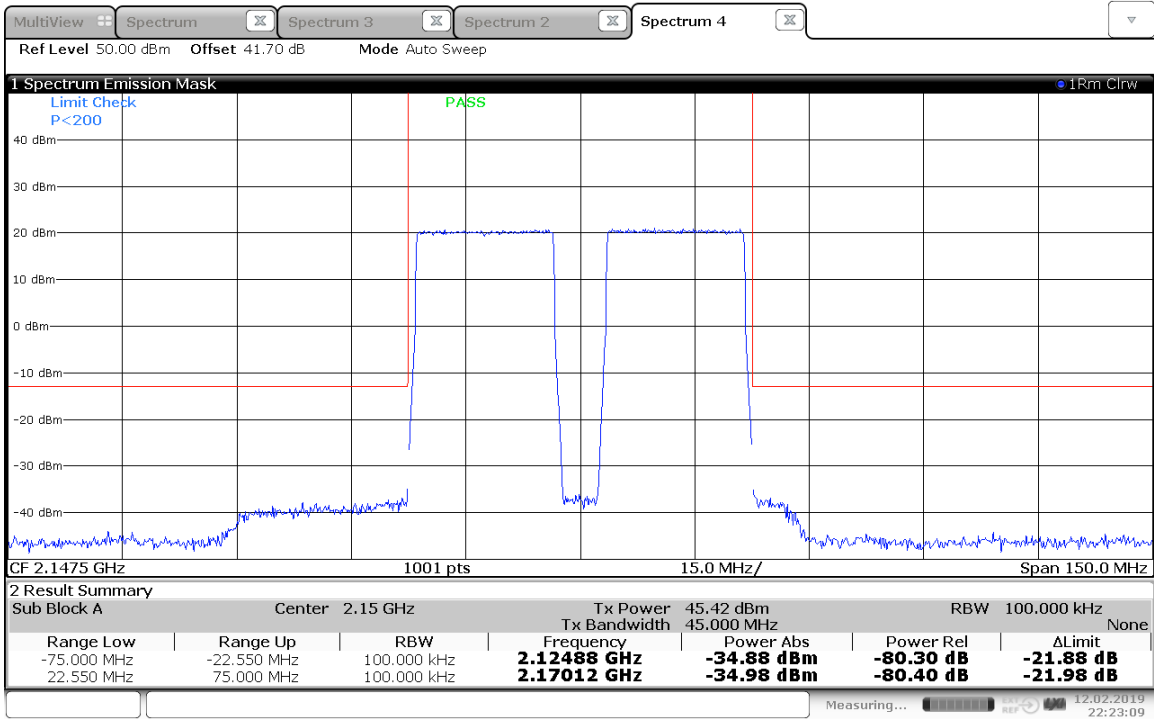


22:15:31 12.02.2019

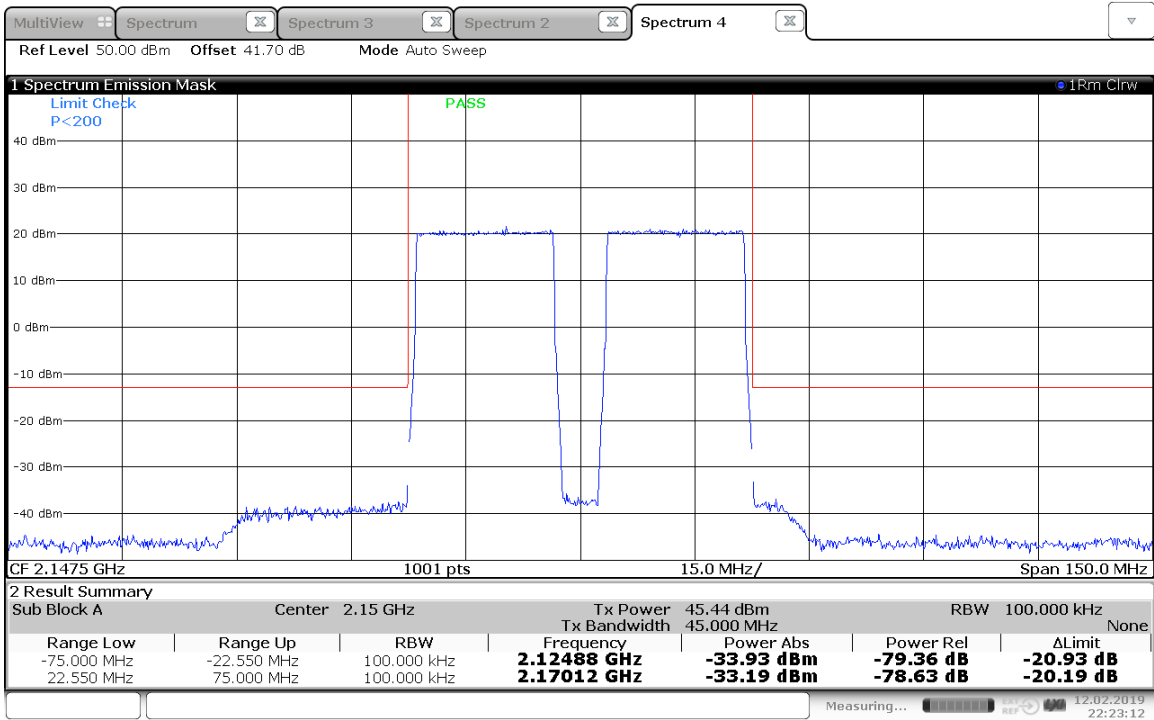


22:16:01 12.02.2019

20M+20M -2147.5MHz-Port 1~4:



22:23:09 12.02.2019



22:23:12 12.02.2019