

Annex 1: Measurement diagrams to
TEST REPORT
No.: 18-1-0245501T05a

According to:
47 CFR Part 95
RSS-Gen Issue 5
RSS-251 Issue 2

for

Veoneer US, Inc.

77V12BSM
77 GHz BSM Radar Sensor

FCC ID: WU877V12BSM
IC: 8436B-77V12BSM

Laboratory Accreditation



accredited according to DIN EN ISO/IEC 17025

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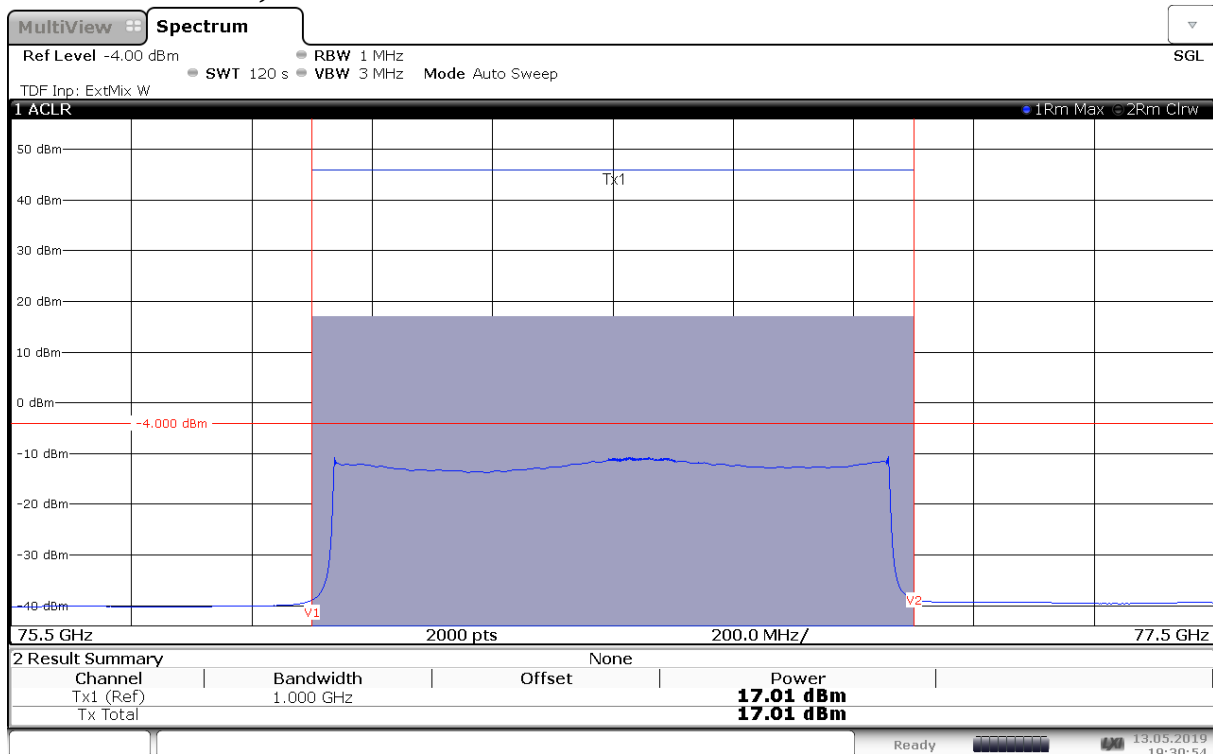
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6.5. T_{nom}/V_{max}	57

1. The maximum peak power EIRP / peak EIRP spectral density. The maximum power EIRP/ average EIRP.

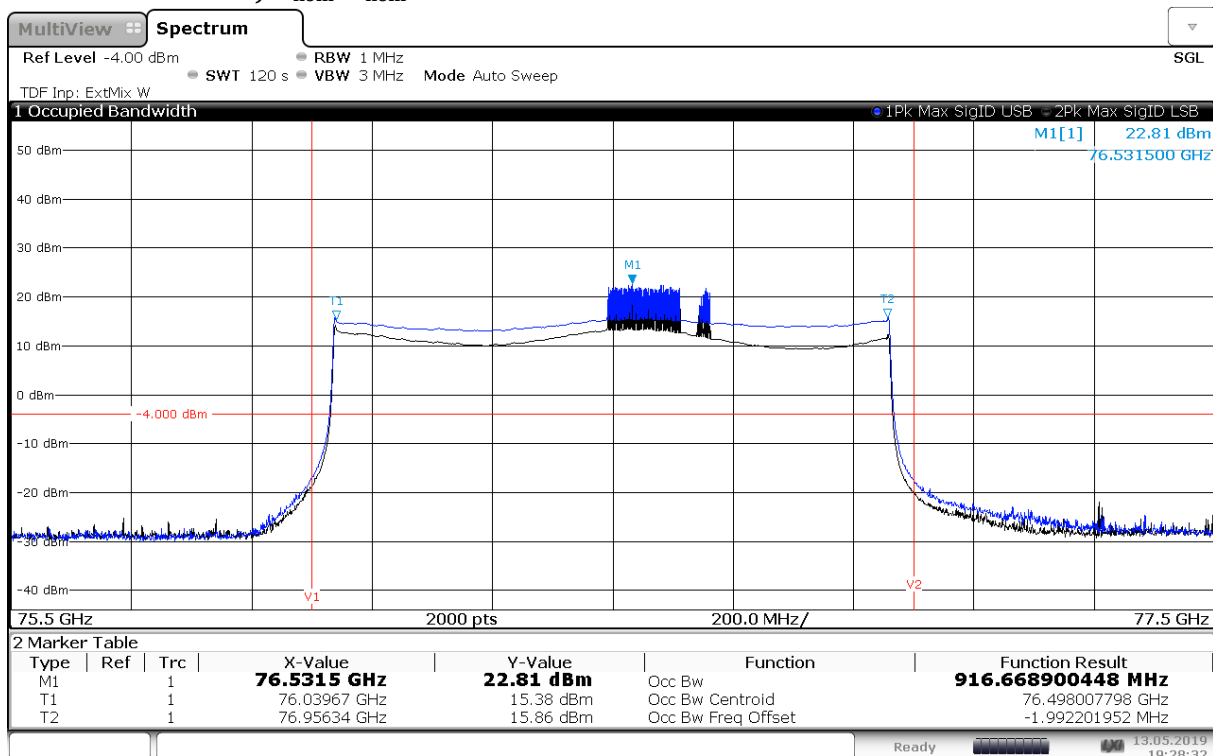
1.1. RMS Detector, T_{nom}/V_{nom}



19:30:55 13.05.2019

* -4 dBm is only a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

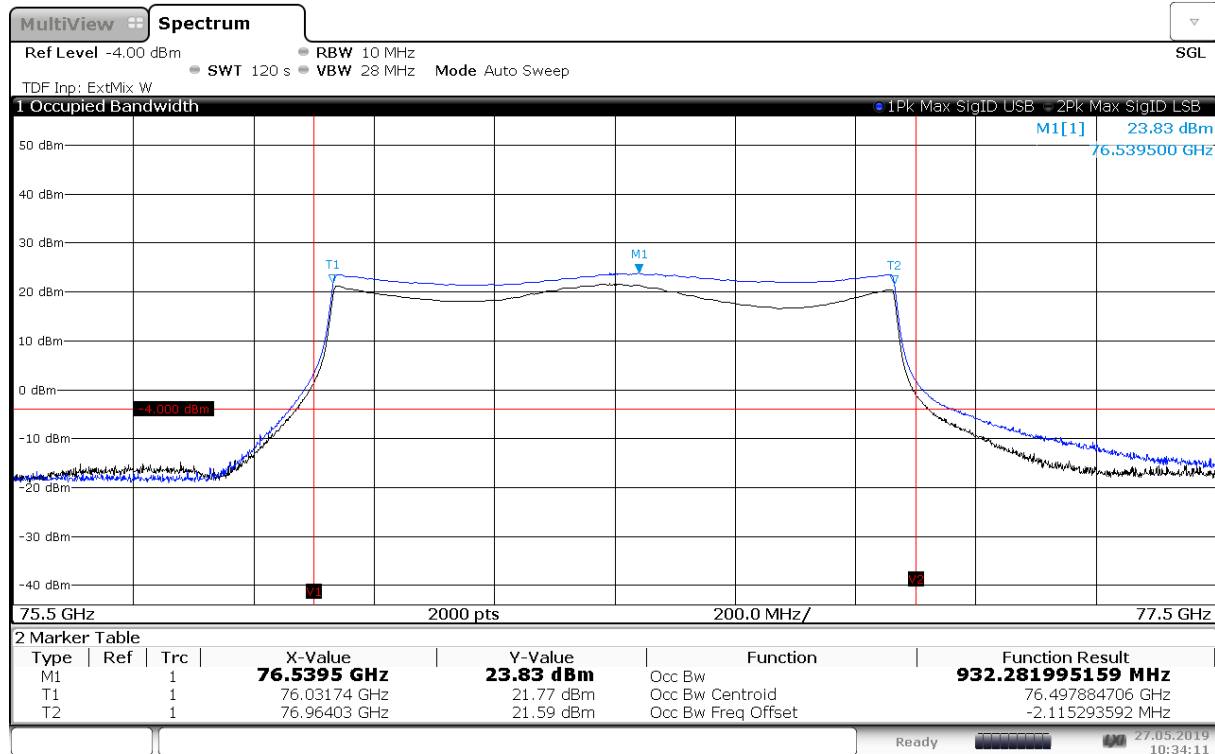
1.2. Peak Detector, T_{nom}/V_{nom}



19:28:32 13.05.2019

* -4 dBm is only a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

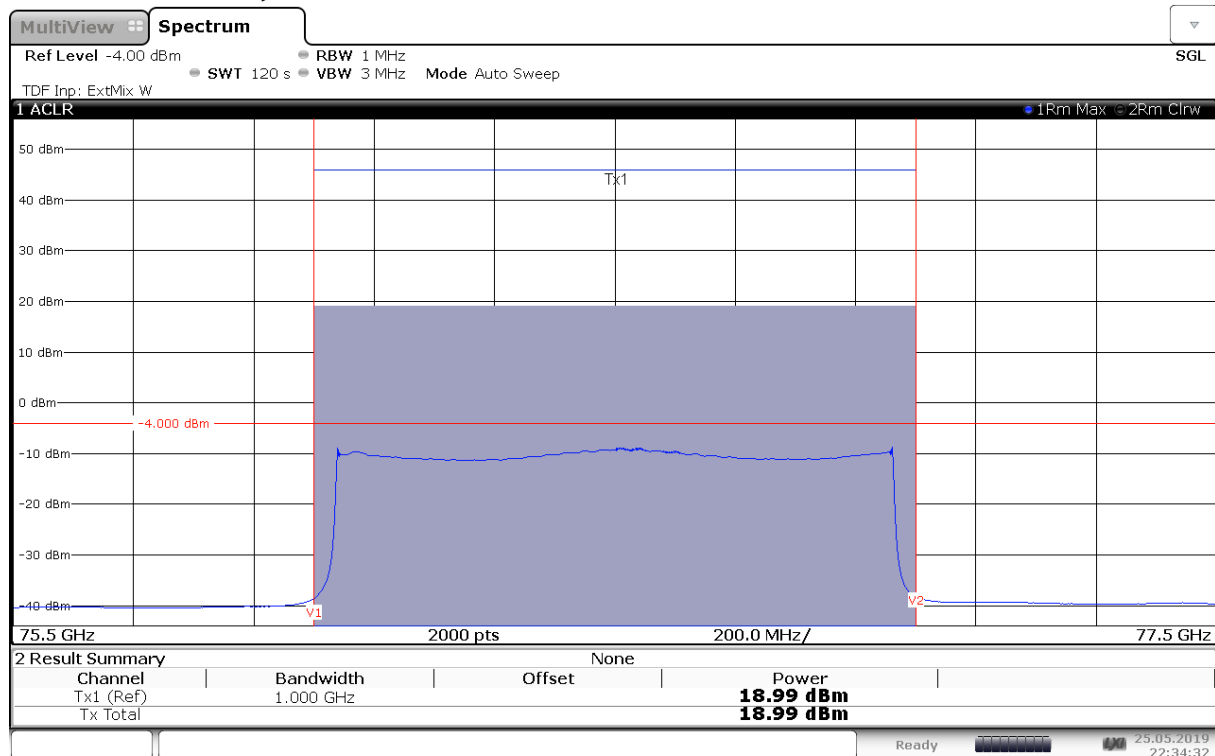
1.3. Peak Detector, T_{nom}/V_{nom} , RBW 10 MHz



10:34:12 27.05.2019

* -4 dBm is only a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

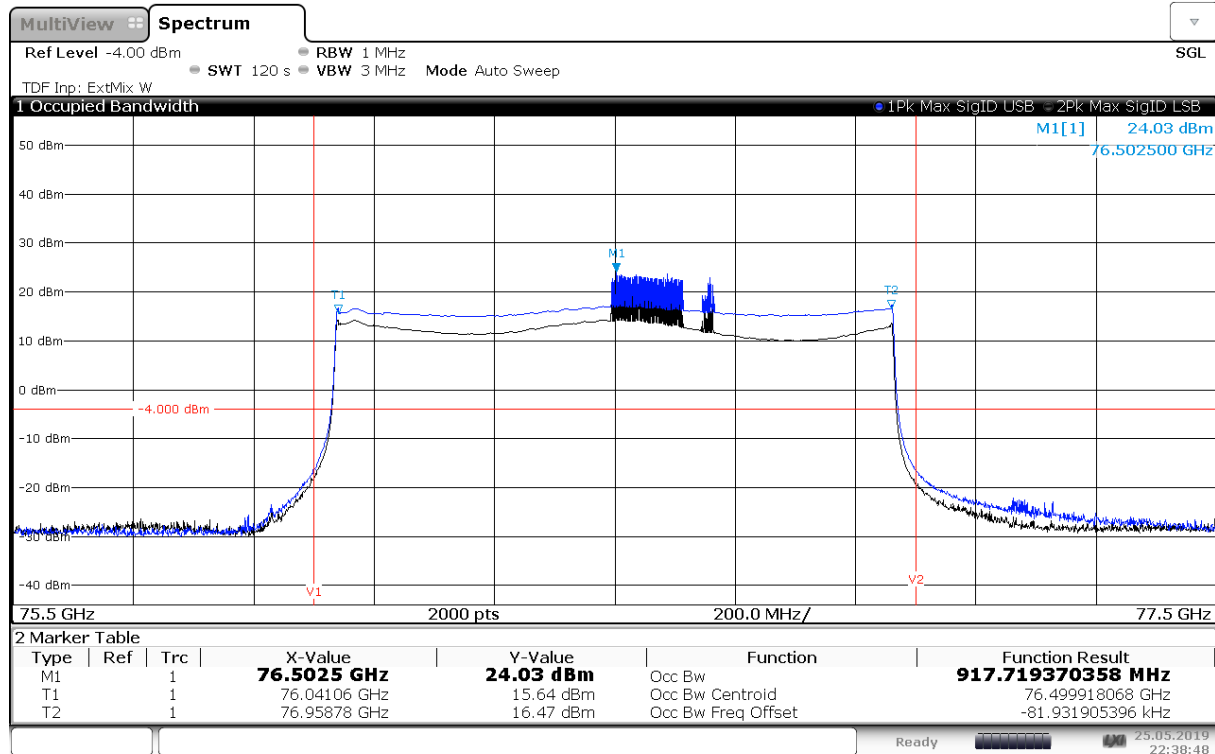
1.4. RMS Detector, T_{min}/V_{nom}



22:34:33 25.05.2019

* -4 dBm is only a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

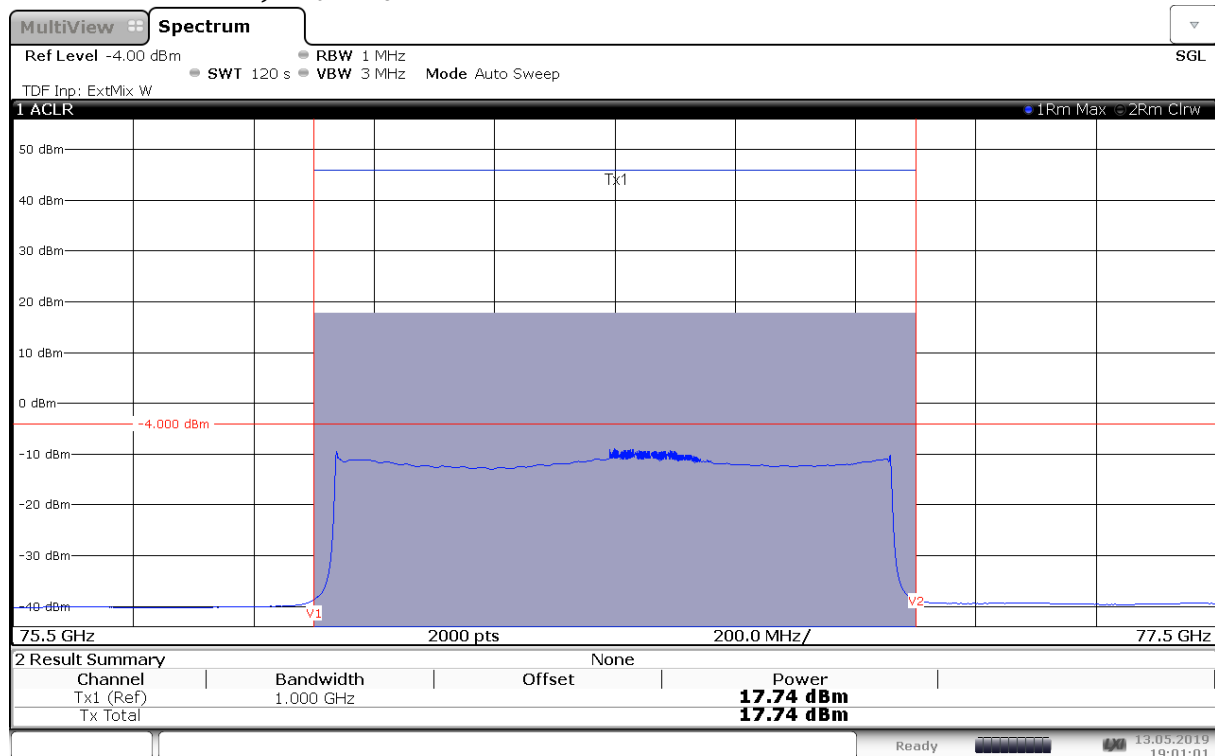
1.5. Peak Detector, T_{min}/V_{nom}



22:38:48 25.05.2019

* -4 dBm is only a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

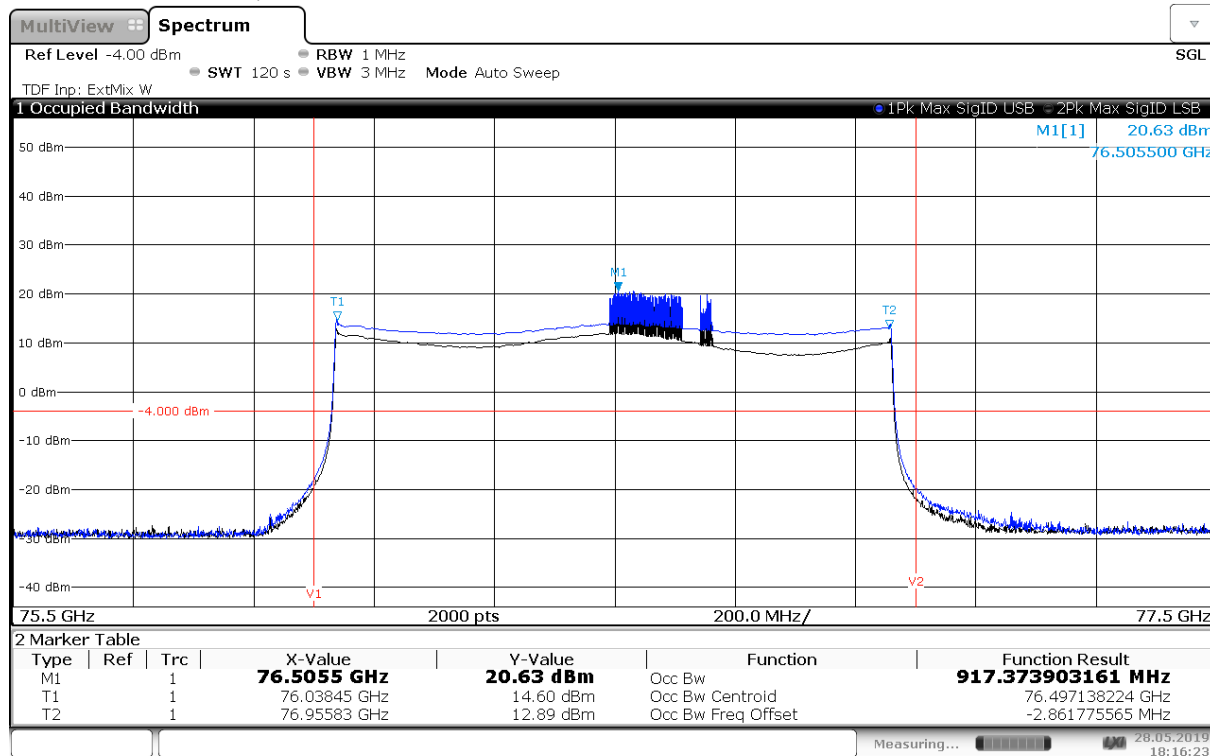
1.6. RMS Detector, T_{max}/V_{nom}



19:01:02 13.05.2019

* -4 dBm is only a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

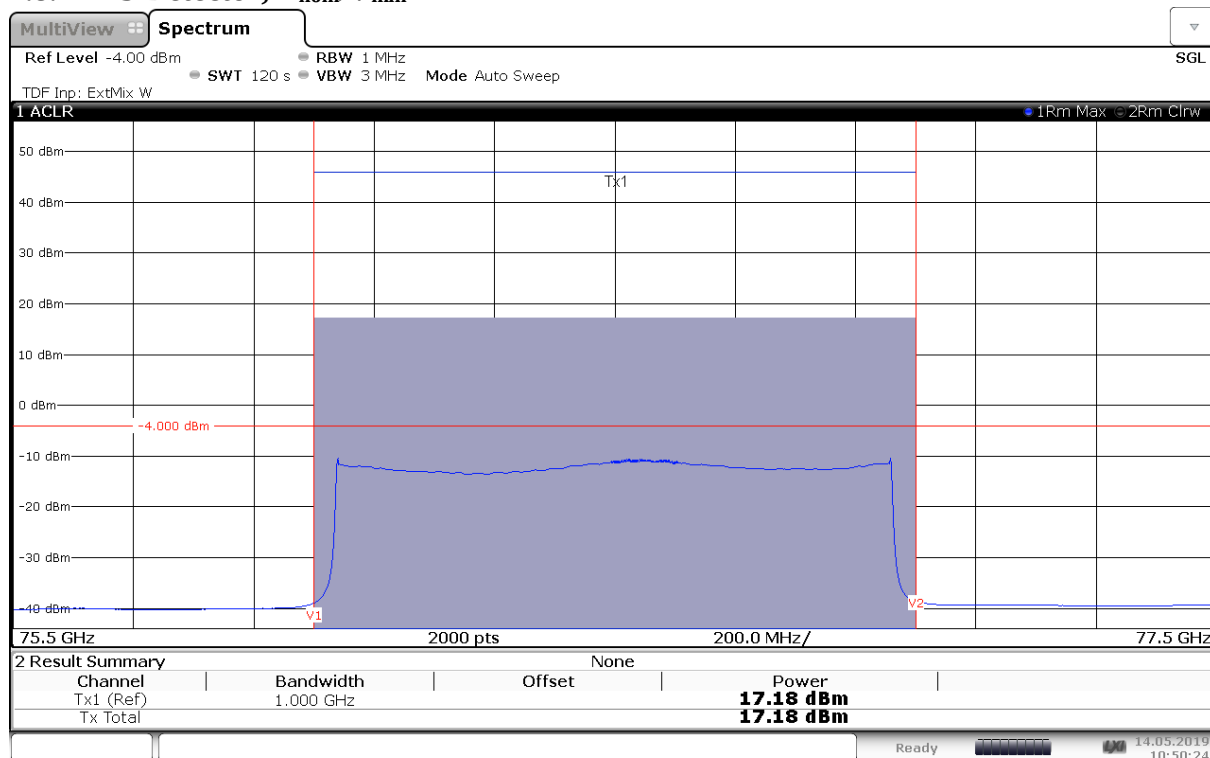
1.7. Peak Detector, $T_{\max}/V_{\text{nom}}$



18:16:24 28.05.2019

* -4 dBm is only a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

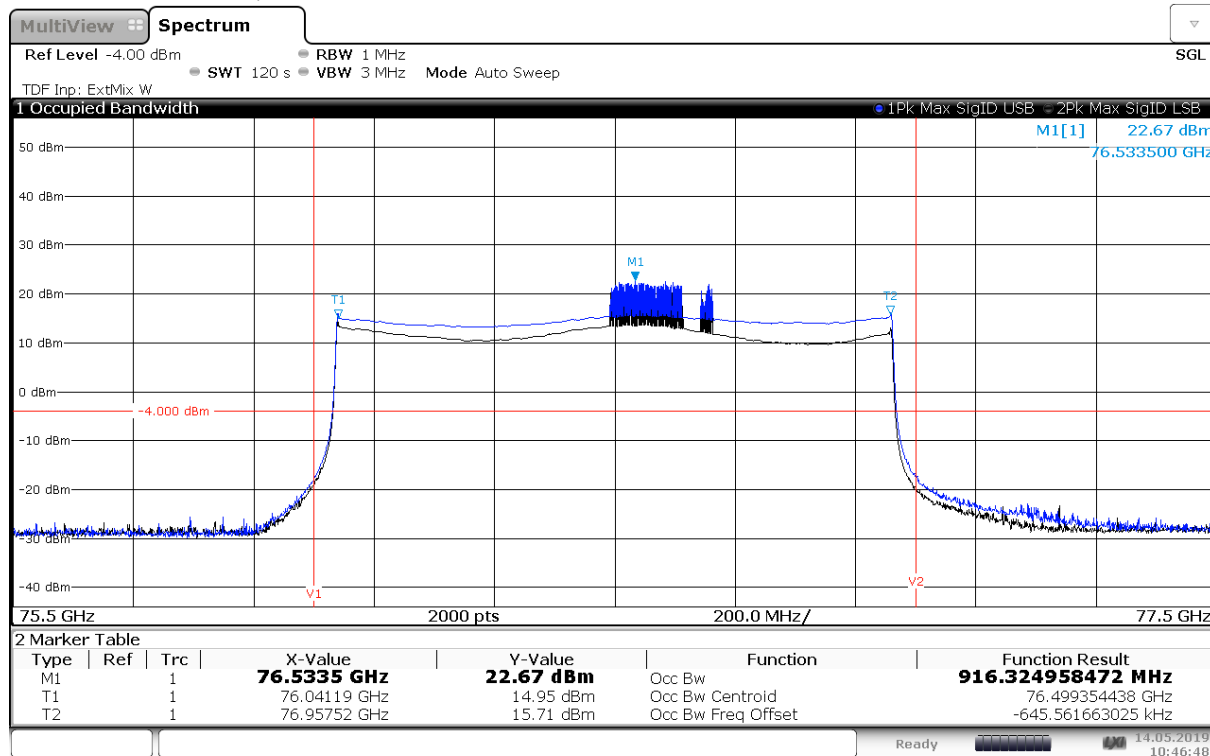
1.8. RMS Detector, $T_{\text{nom}}/V_{\text{min}}$



10:50:24 14.05.2019

* -4 dBm is only a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

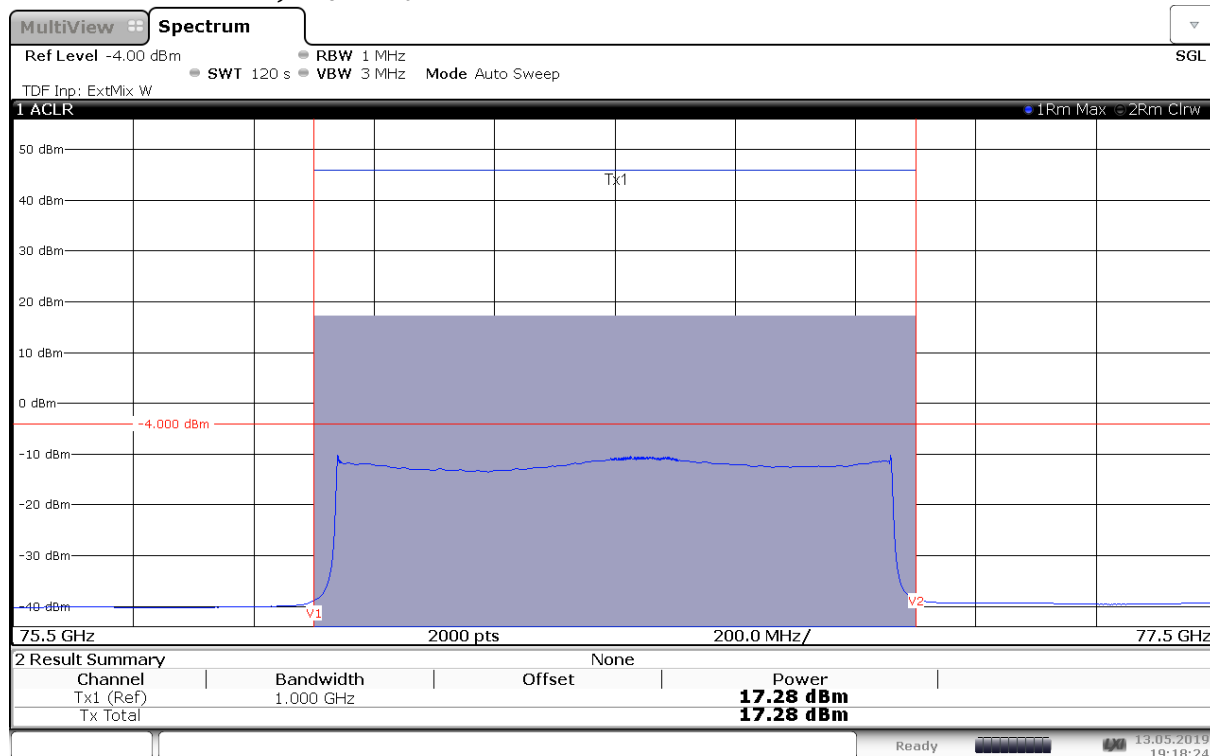
1.9. Peak Detector, T_{nom}/V_{min}



10:46:49 14.05.2019

* -4 dBm is only a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

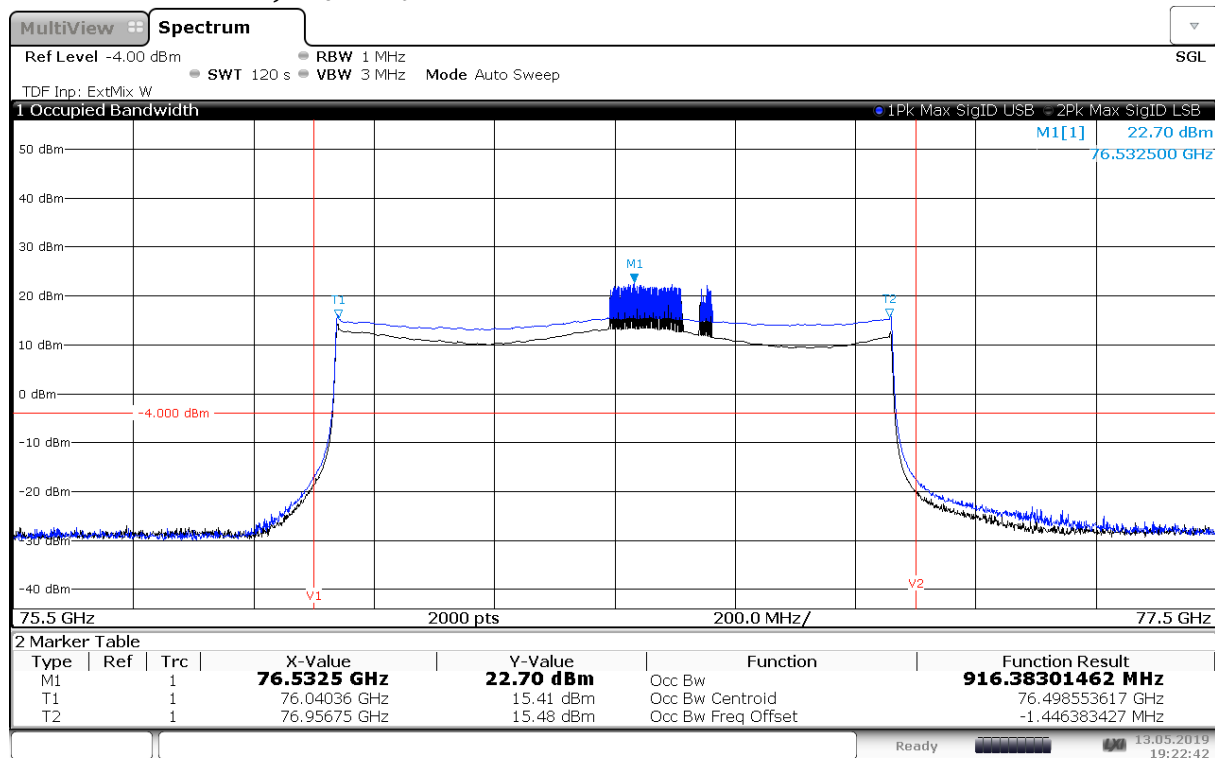
1.10. RMS Detector, T_{nom}/V_{max}



19:18:24 13.05.2019

* -4 dBm is only a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

1.11. Peak Detector, T_{nom}/V_{max}



19:22:43 13.05.2019

* -4 dBm is only a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

2. Modulation characteristics

2.1. Peak Detector, $T_{\text{nom}}/V_{\text{nom}}$

See diagram 1.2

2.2. Peak Detector, $T_{\text{min}}/V_{\text{nom}}$

See diagram 1.4

2.3. Peak Detector, $T_{\text{max}}/V_{\text{nom}}$

See diagram 1.6

2.4. Peak Detector, $T_{\text{nom}}/V_{\text{min}}$

See diagram 1.8

2.5. Peak Detector, $T_{\text{nom}}/V_{\text{max}}$

See diagram 1.10

3. Occupied bandwidth

3.1. Peak Detector, $T_{\text{nom}}/V_{\text{nom}}$

See diagram 1.2

3.2. Peak Detector, $T_{\text{min}}/V_{\text{nom}}$

See diagram 1.4

3.3. Peak Detector, $T_{\text{max}}/V_{\text{nom}}$

See diagram 1.6

3.4. Peak Detector, $T_{\text{nom}}/V_{\text{min}}$

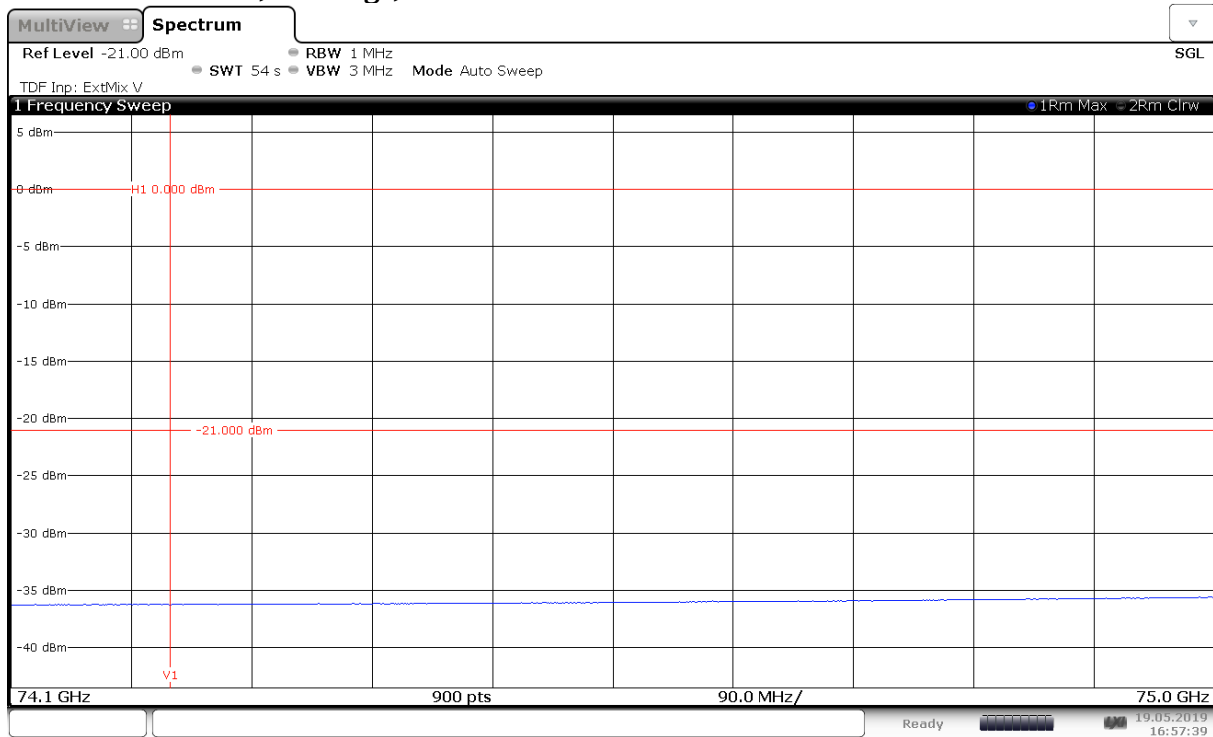
See diagram 1.8

3.5. Peak Detector, $T_{\text{nom}}/V_{\text{max}}$

See diagram 1.10

4. Field strength of emissions (band edge)

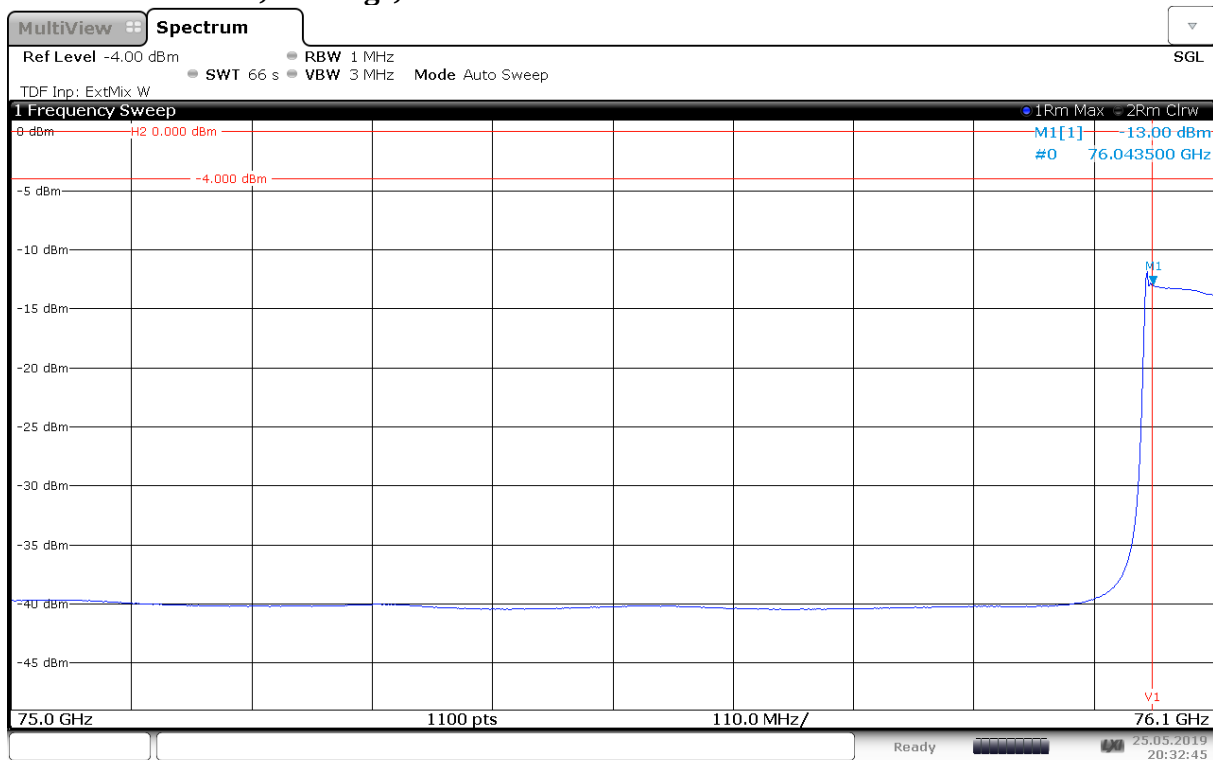
4.1. RMS Detector, low edge, 74.1 GHz – 75 GHz



16:57:40 19.05.2019

* -21 dBm is only a reference line from the FSW67. Limit is 0 dBm.

4.2. RMS Detector, low edge, 75 GHz – 76.1 GHz



20:32:45 25.05.2019

* -4 dBm is only a reference line from the FSW67. Limit is 0 dBm.

4.3. RMS Detector, high edge, SigID USB + LSB

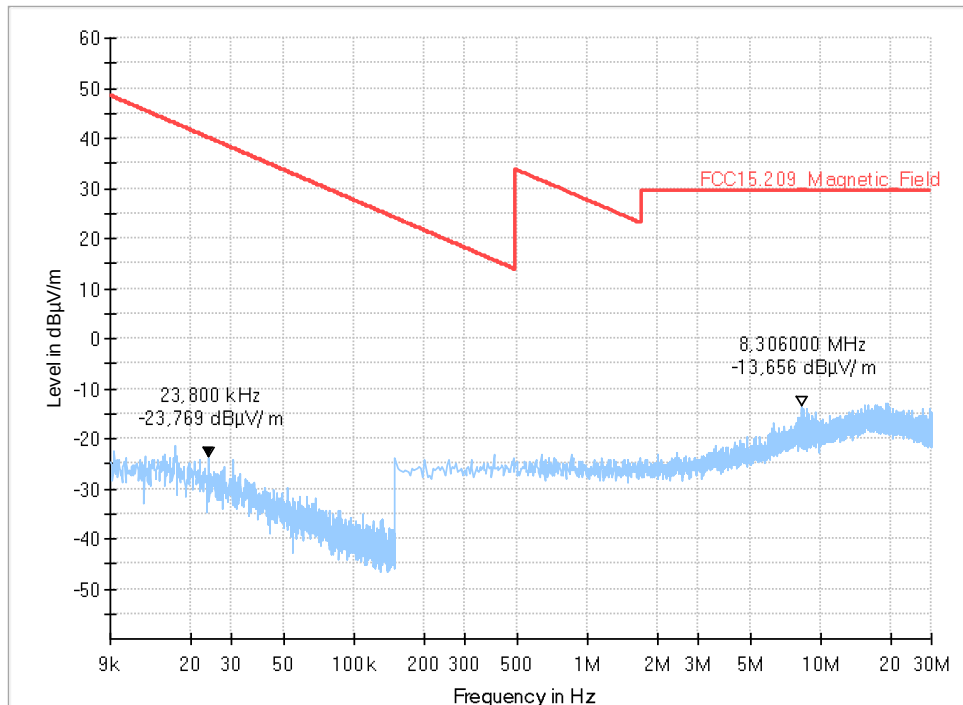
No emissions above 77 GHz respectively 81 GHz. See diagrams in from section 5.36. 77 GHz – 78.5 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW to 5.38. 79.5 GHz – 81 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW.

* Limit is 0 dBm.

5. Field strength of emissions (radiated spurious)

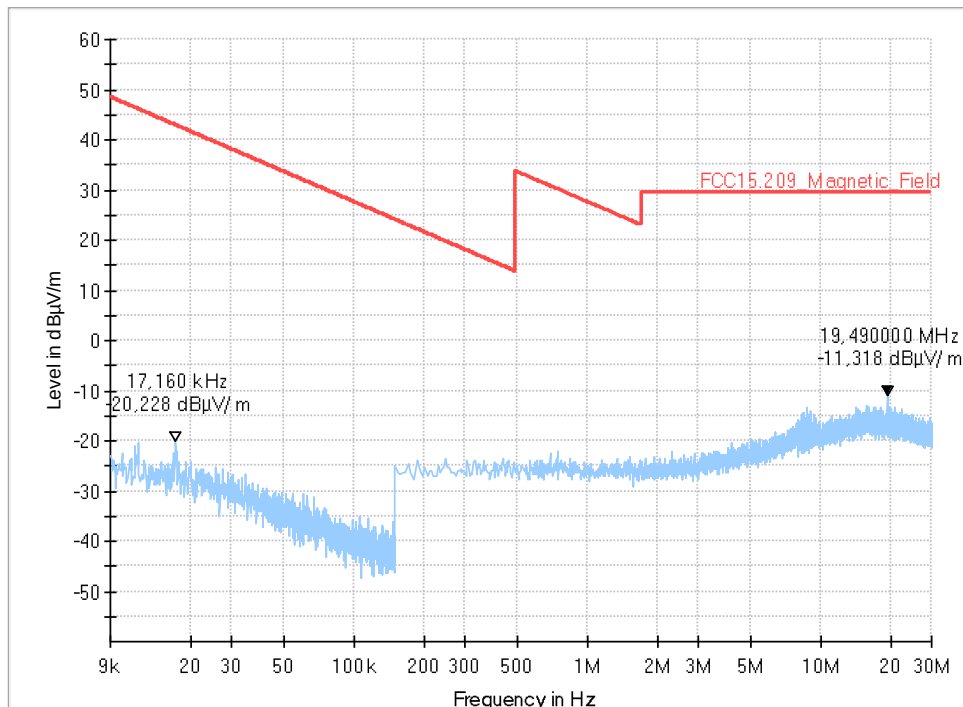
5.1. 9 kHz – 30 MHz, laying, valid for f_CW_low + f_CW_center + f_CW_high

Full Spectrum



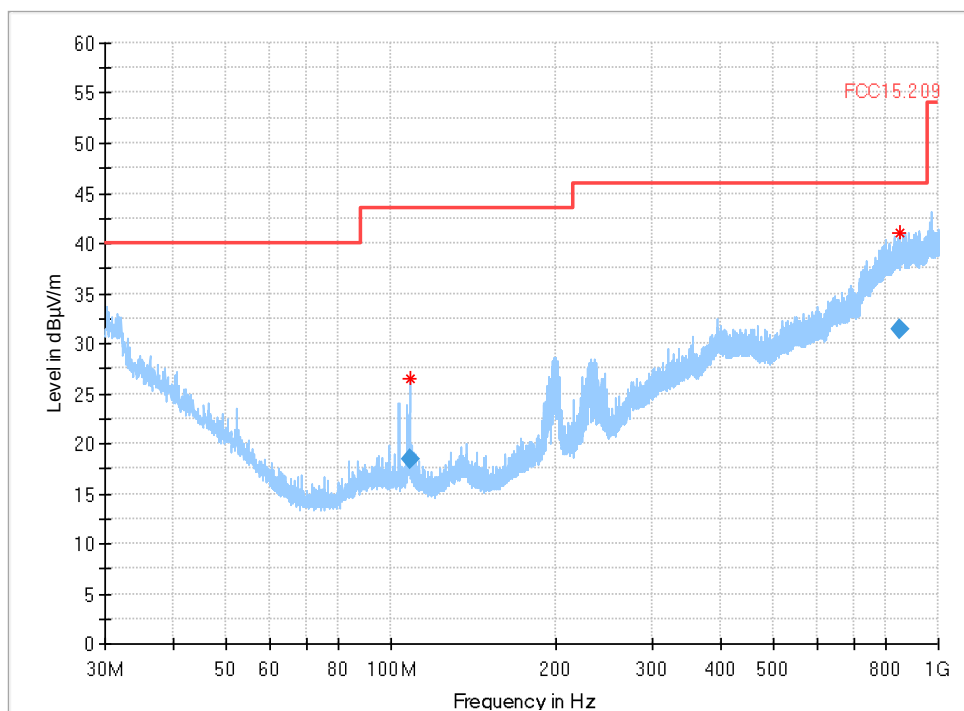
5.2. 9 kHz – 30 MHz, standing, valid for f_CW_low + f_CW_center + f_CW_high

Full Spectrum



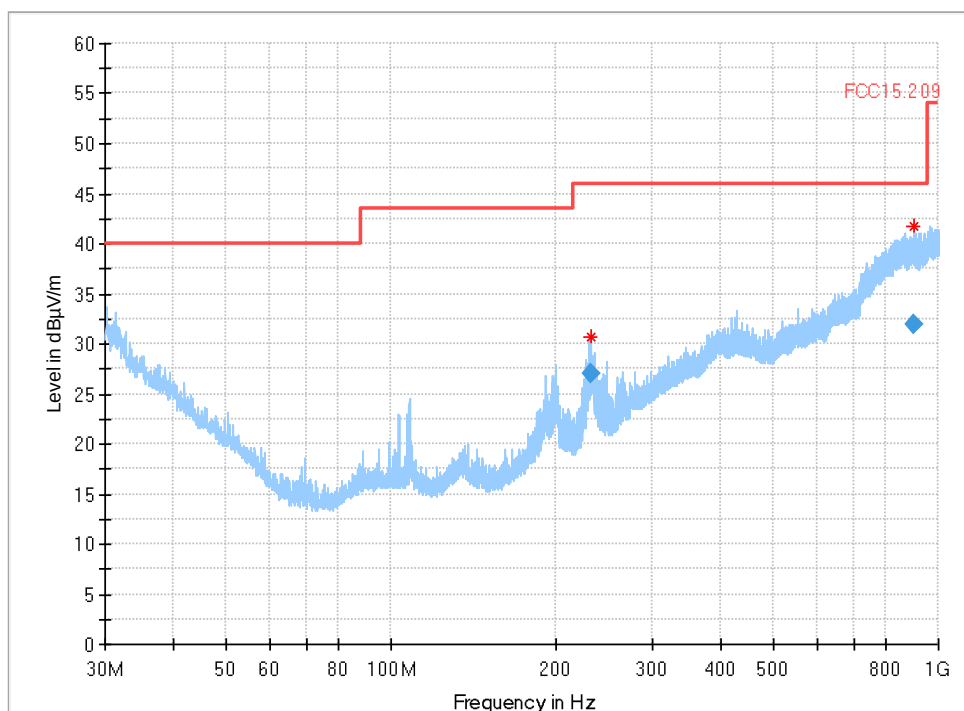
5.3. 30 MHz – 1 GHz, laying, valid for f_CW_low + f_CW_center + f_CW_high

Full Spectrum

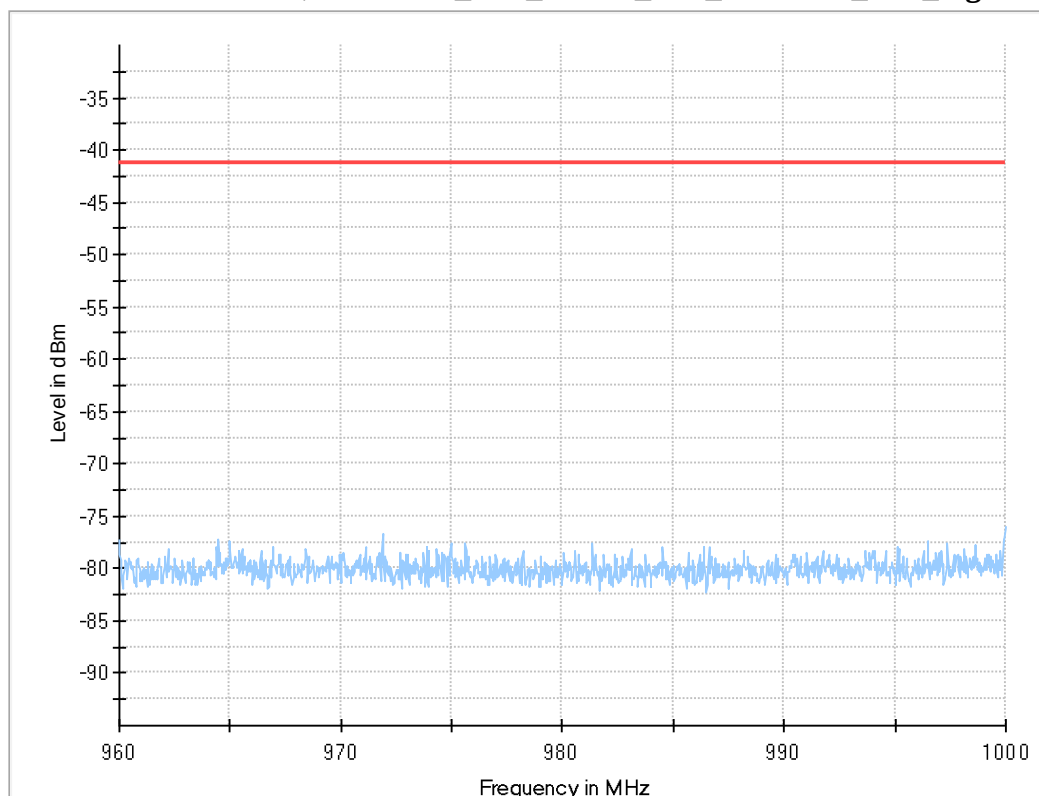


5.4. 30 MHz – 1 GHz, standing, valid for f_CW_low + f_CW_center + f_CW_high

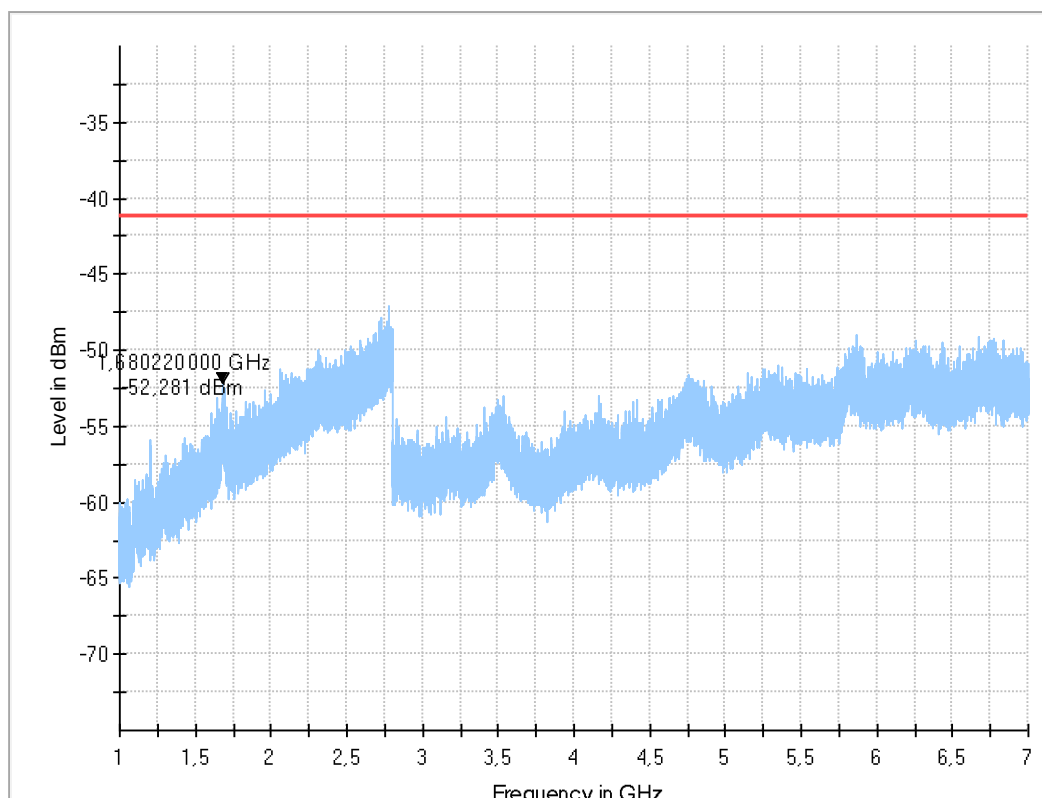
Full Spectrum



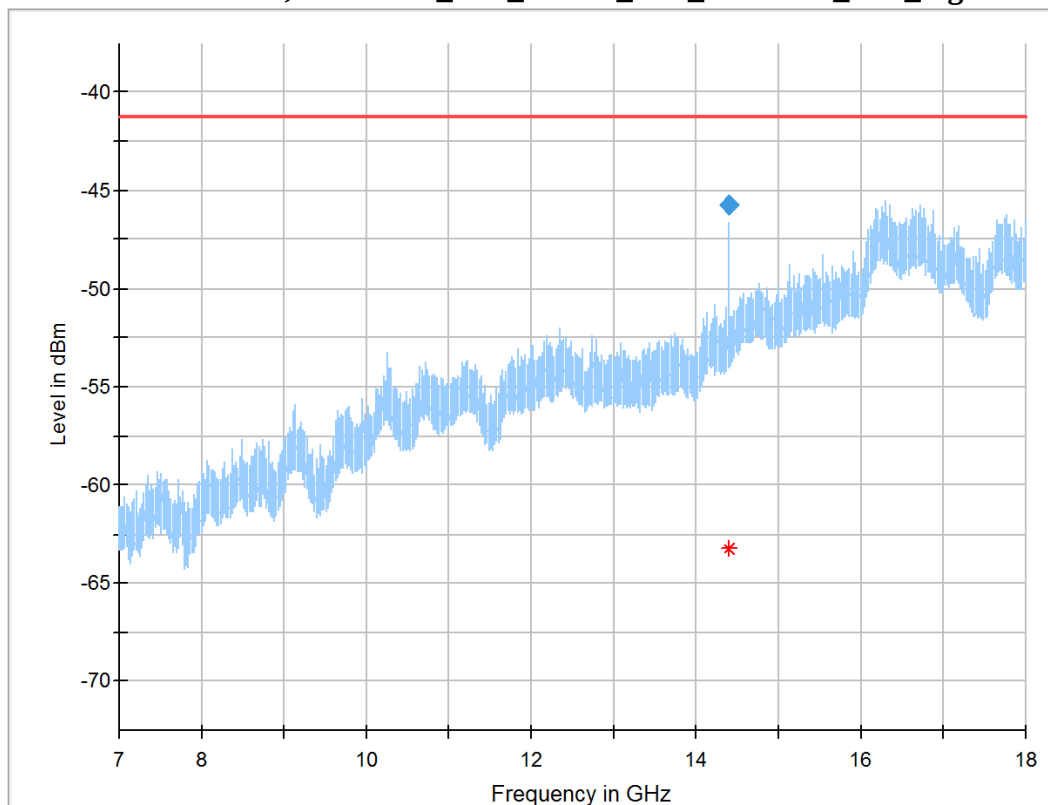
5.5. 960 MHz – 1 GHz, valid for f_{CW_low} + f_{CW_center} + f_{CW_high}



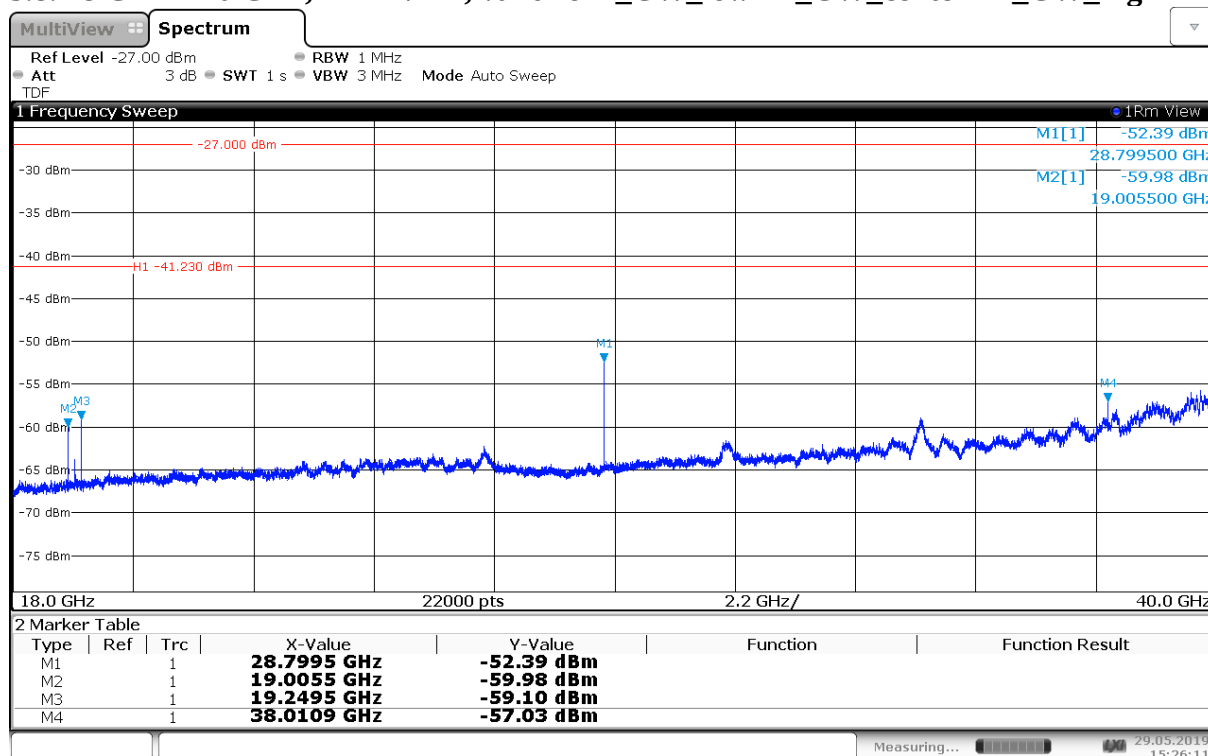
5.6. 1 GHz – 7 GHz, valid for f_{CW_low} + f_{CW_center} + f_{CW_high}



5.7. 7 GHz – 18 GHz, valid for f_CW_low + f_CW_center + f_CW_high



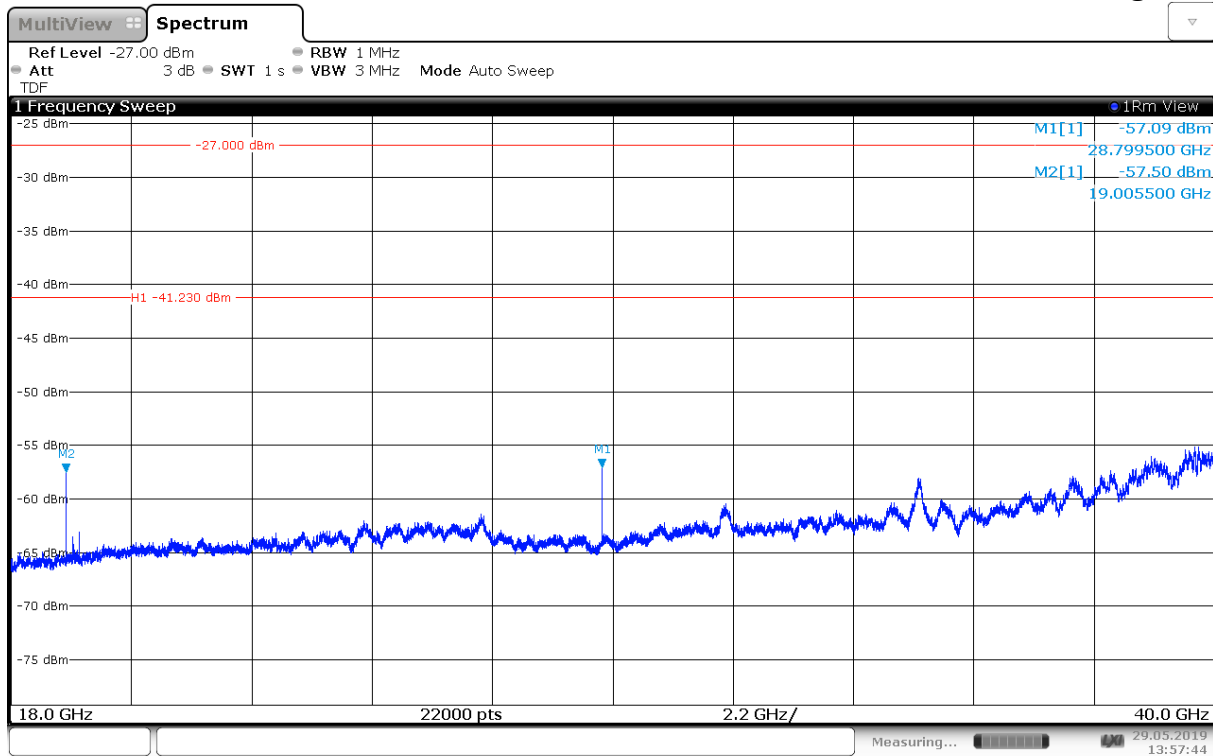
5.8. 18 GHz – 40 GHz, ANT VER, valid for f_CW_low + f_CW_center + f_CW_high



15:26:11 29.05.2019

* -27 dBm is only a reference line from the FSW67. Limit is -41.23 dBm.

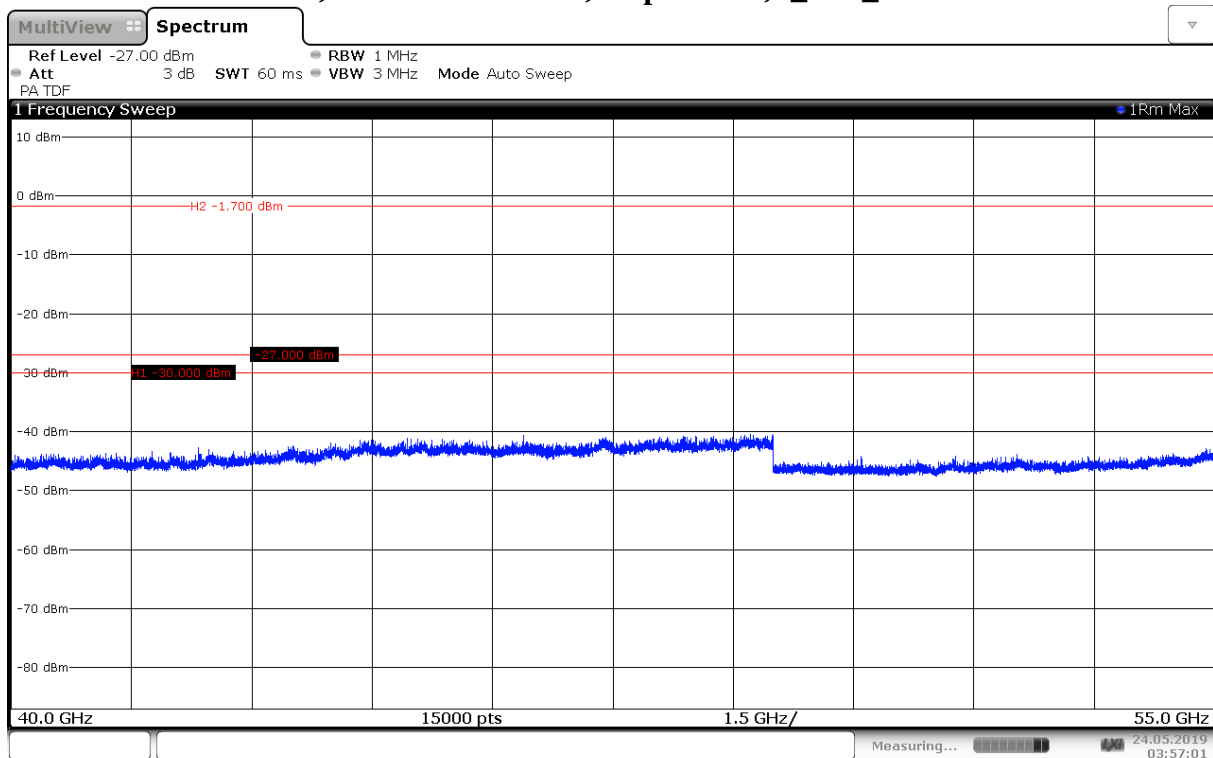
5.9. 18 GHz – 40 GHz, ANT HOR, valid for f_CW_low + f_CW_center + f_CW_high



13:57:44 29.05.2019

* -27 dBm is only a reference line from the FSW67. Limit is -41.23 dBm.

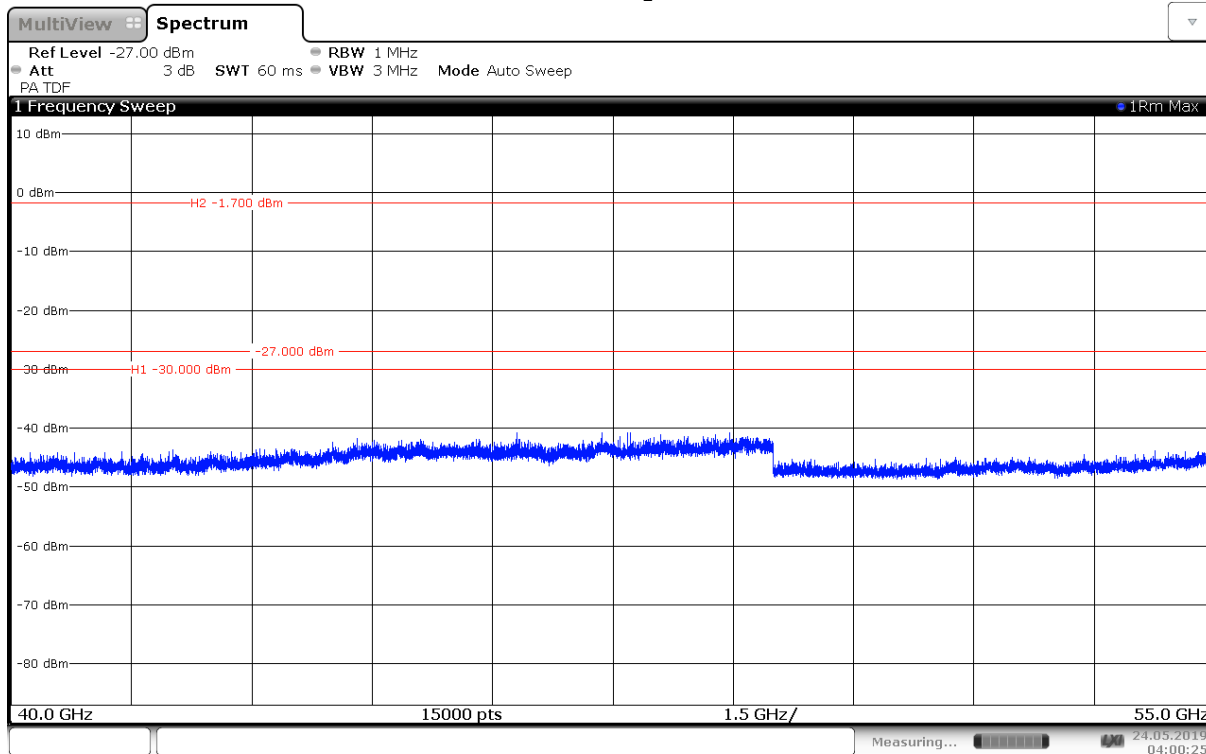
5.10. 40 GHz – 55 GHz, ANT HOR + VER, all positions, f_CW_low



03:57:02 24.05.2019

* -27 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

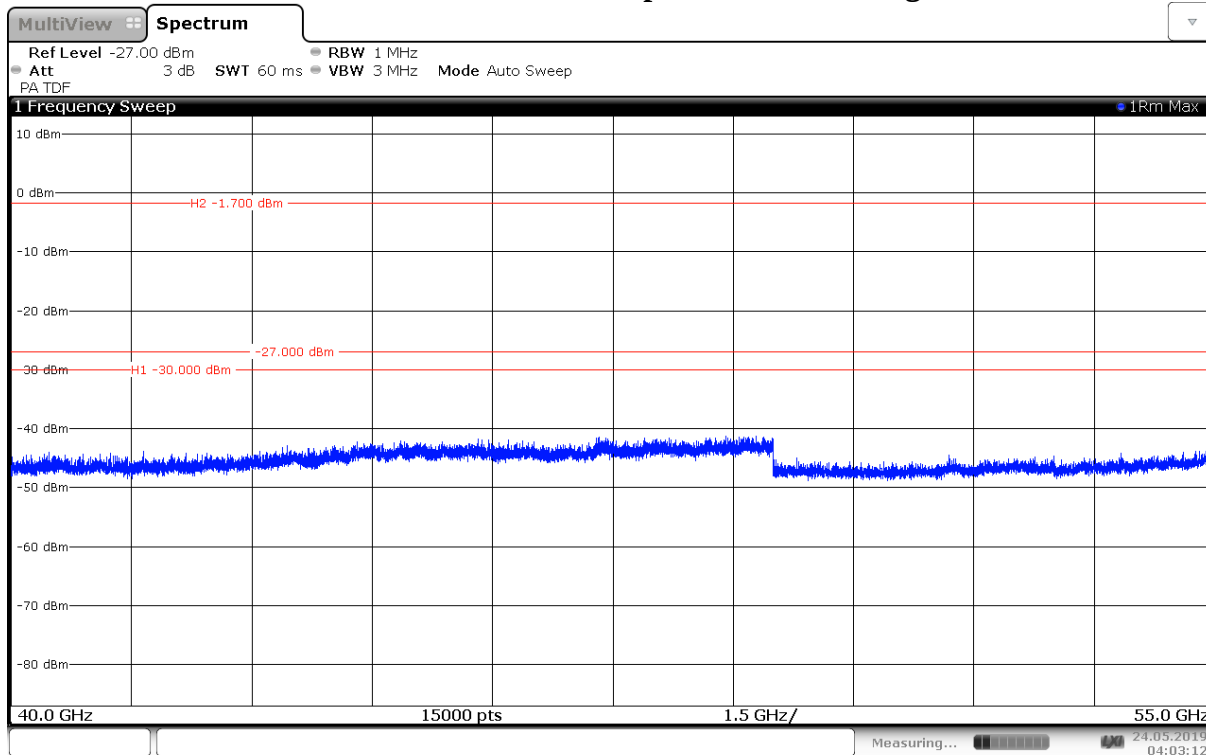
5.11. 40 GHz – 55 GHz, ANT HOR + VER, all positions, f_CW_center



04:00:26 24.05.2019

* -27 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

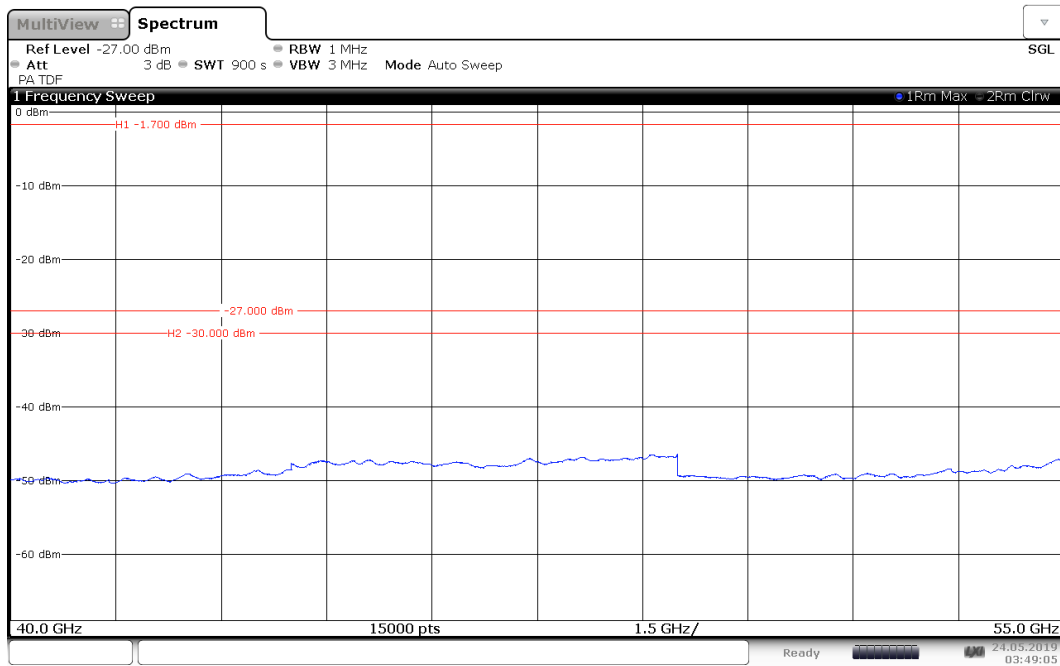
5.12. 40 GHz – 55 GHz, ANT HOR + VER, all positions, f_CW_high



04:03:12 24.05.2019

* -27 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

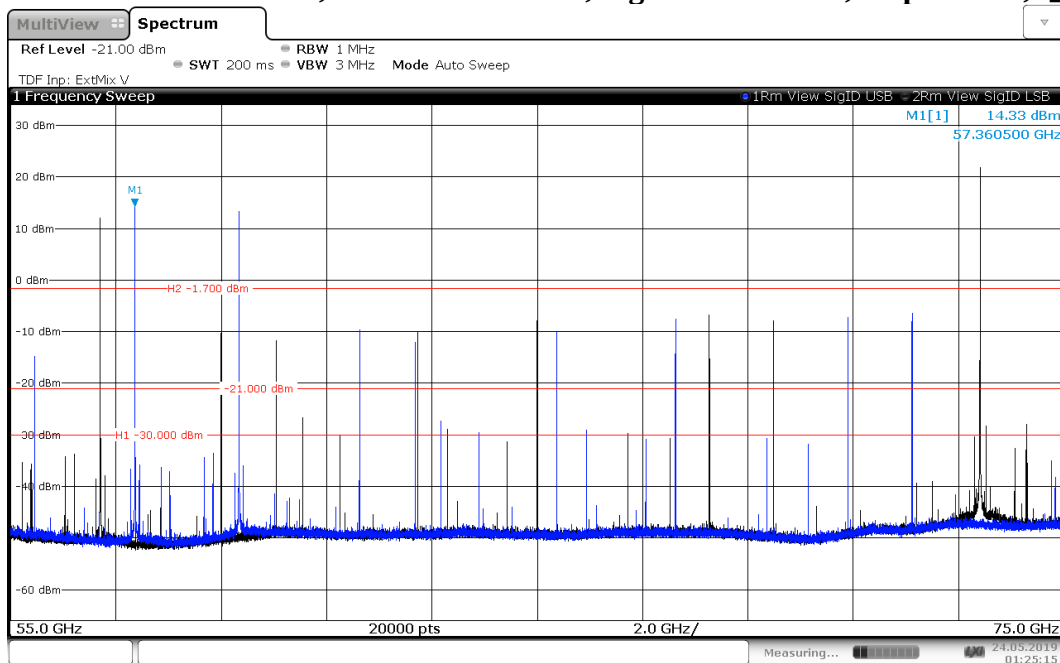
5.13. 40 GHz – 55 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



03:49:06 24.05.2019

* -27 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

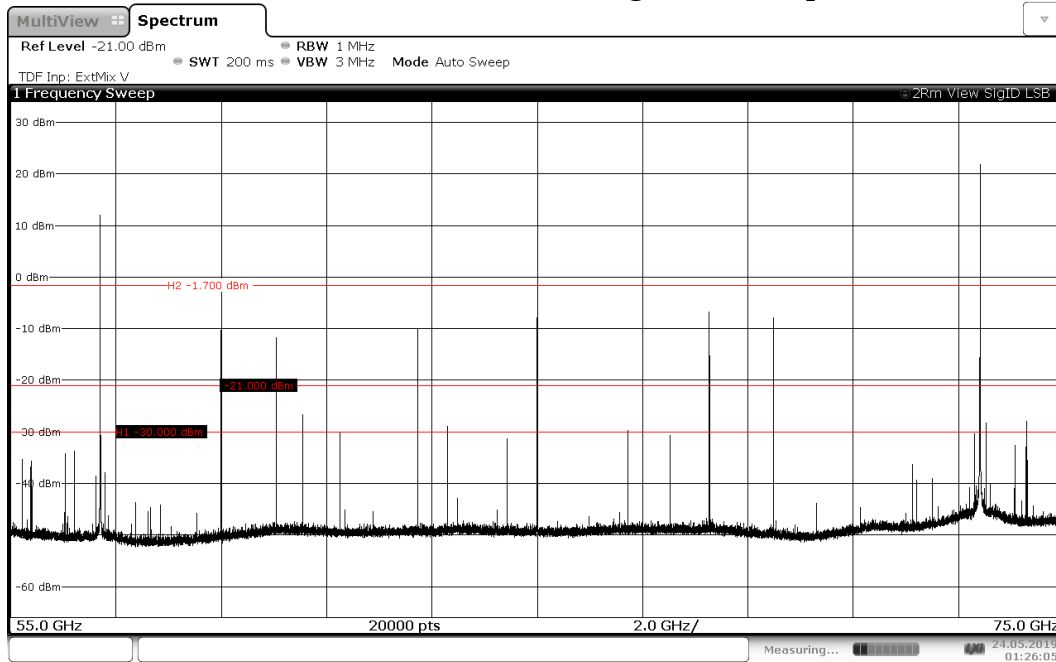
5.14. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



01:25:15 24.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

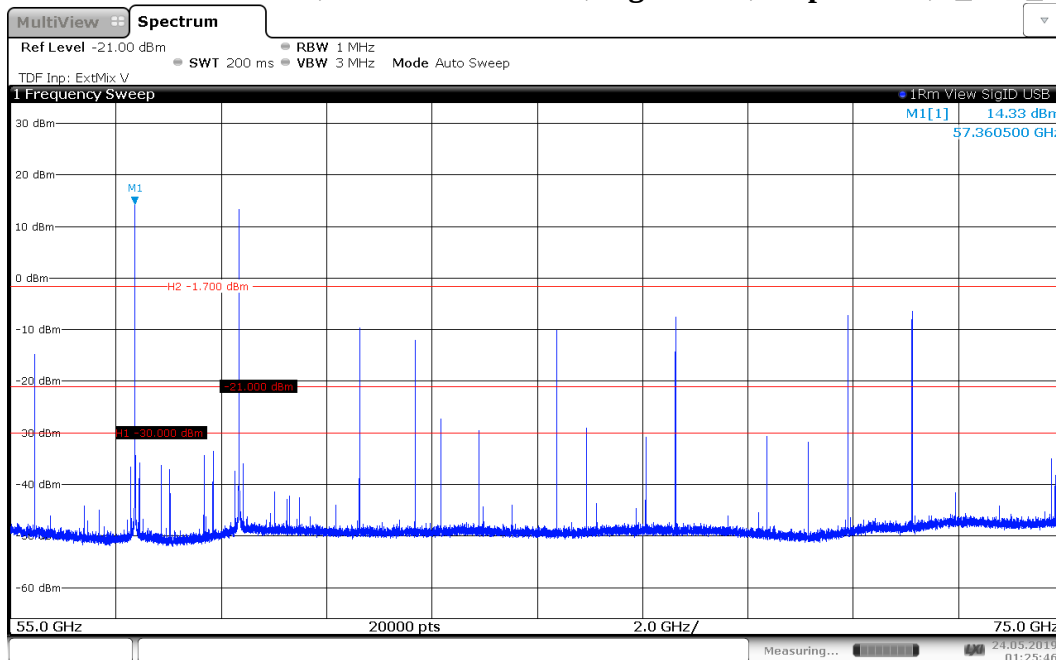
5.15. 55 GHz – 75 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_low



01:26:05 24.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

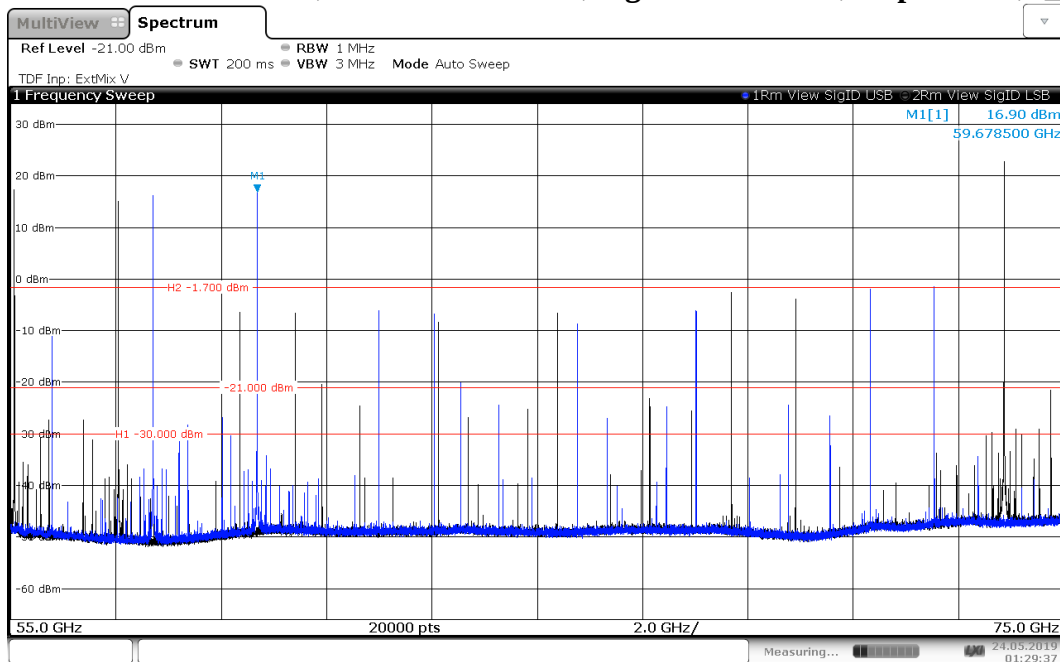
5.16. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_low



01:25:47 24.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

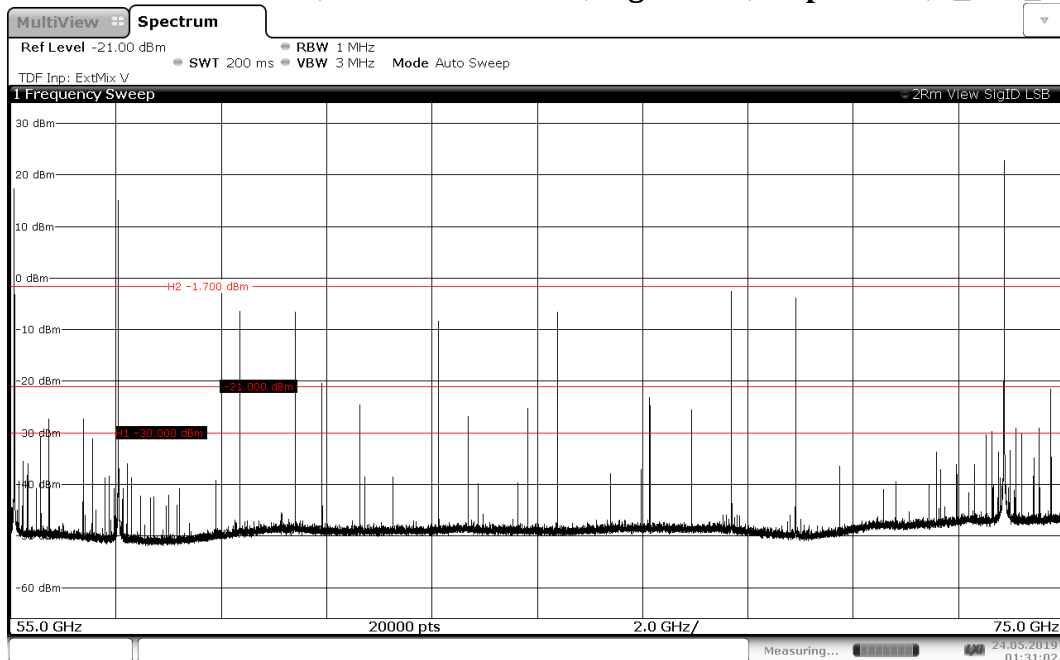
5.17. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



01:29:37 24.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

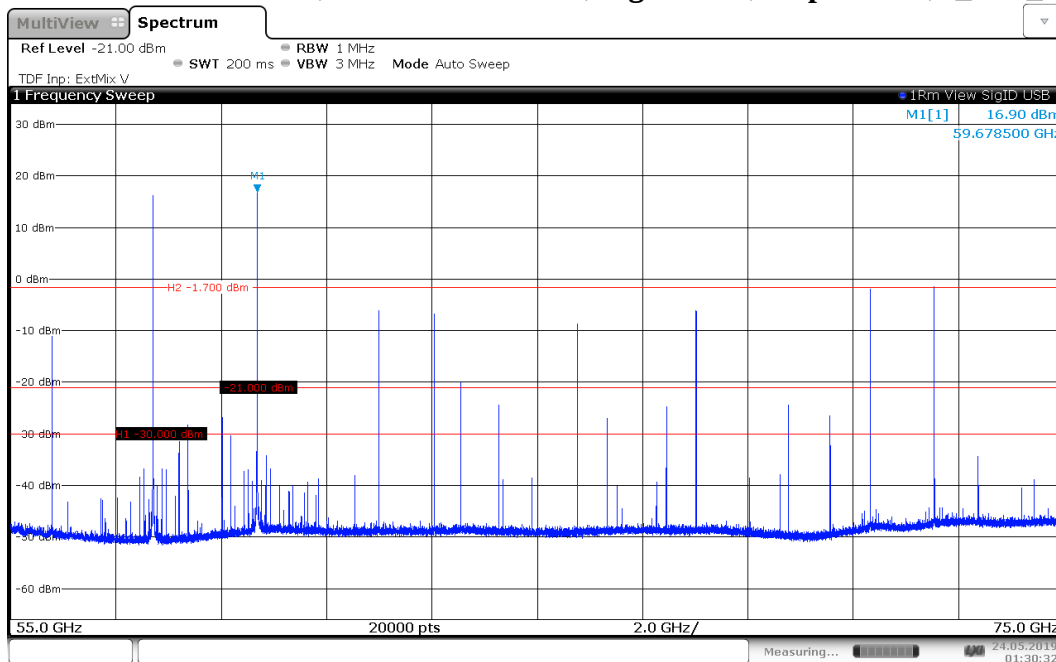
5.18. 55 GHz – 75 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_center



01:31:02 24.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

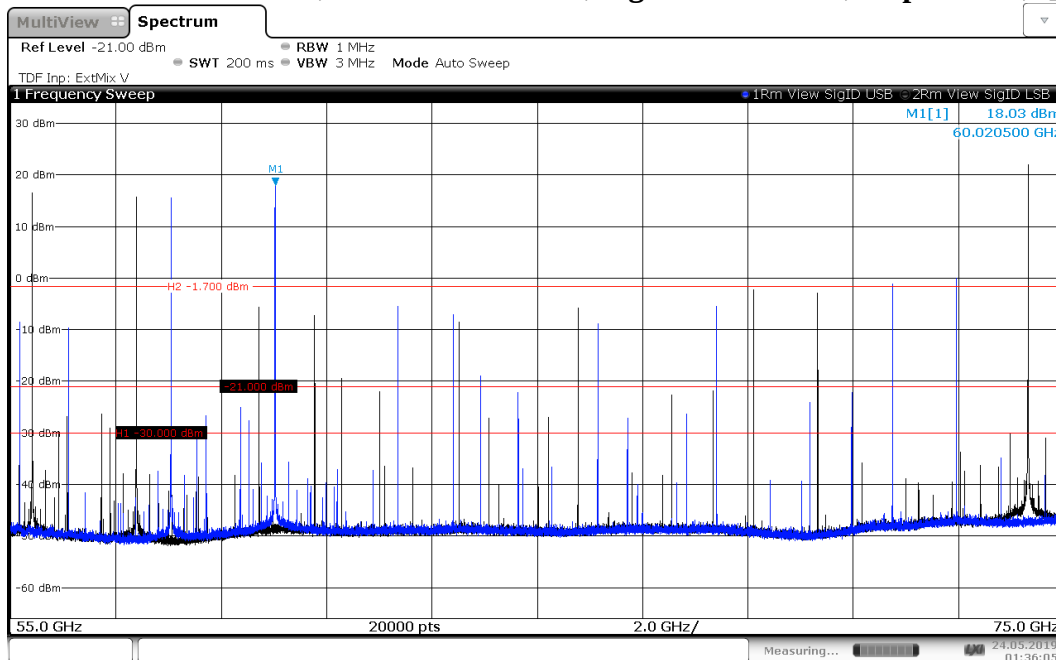
5.19. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_center



01:30:32 24.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

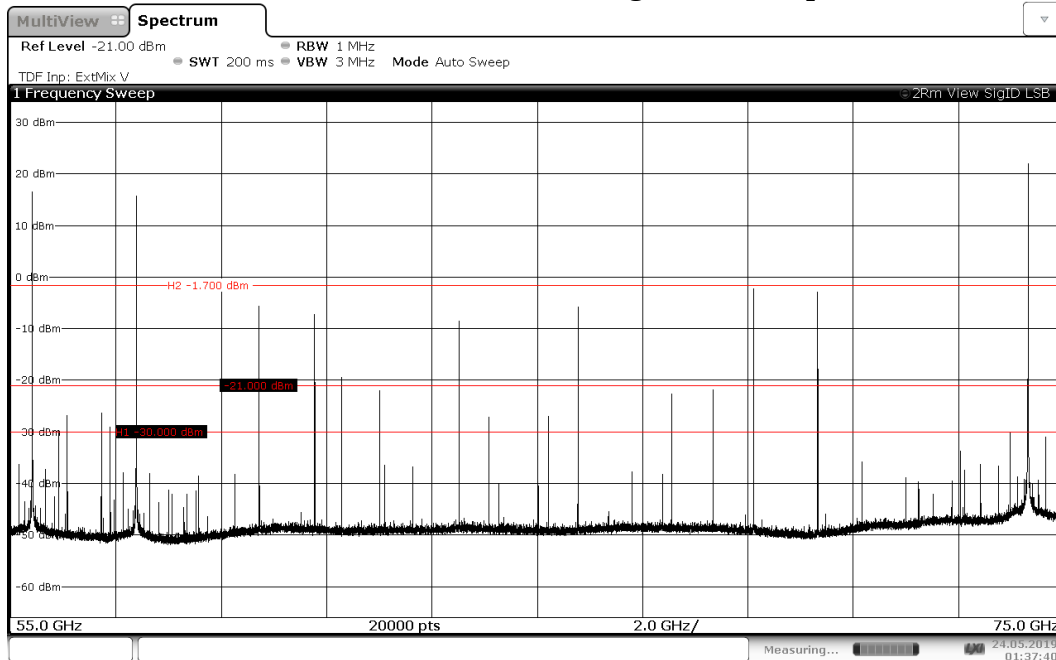
5.20. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



01:36:05 24.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

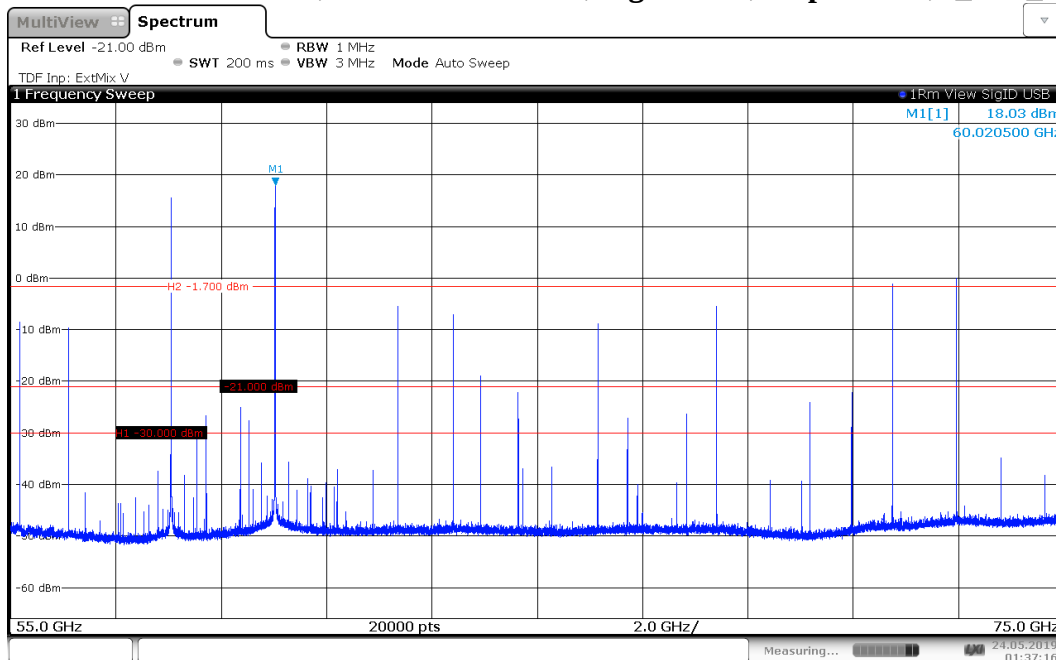
5.21. 55 GHz – 75 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_high



01:37:41 24.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

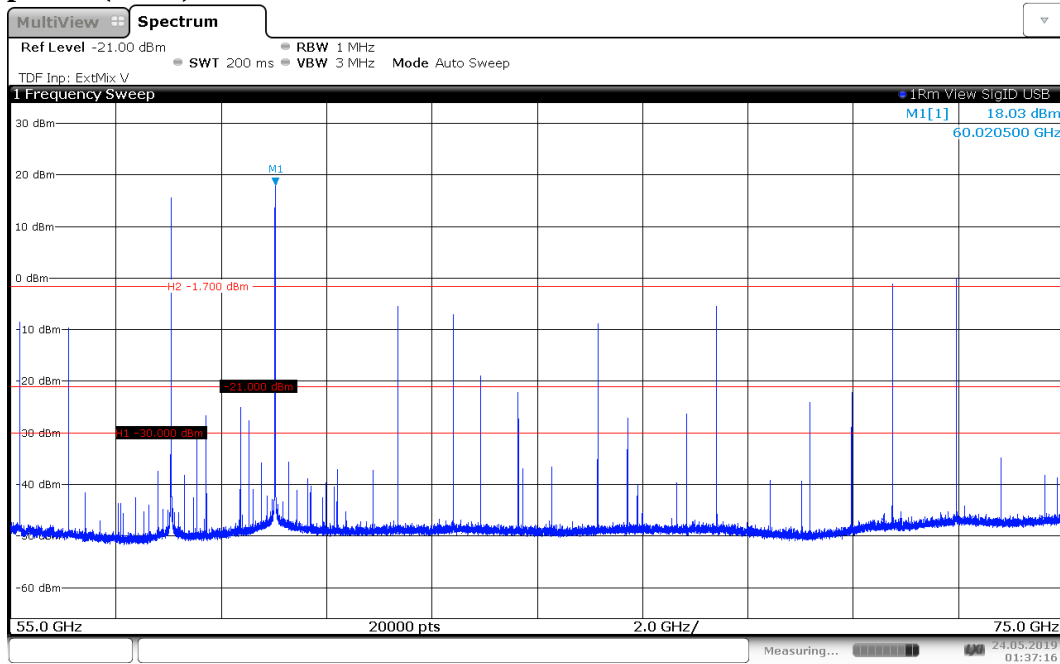
5.22. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_high



01:37:16 24.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

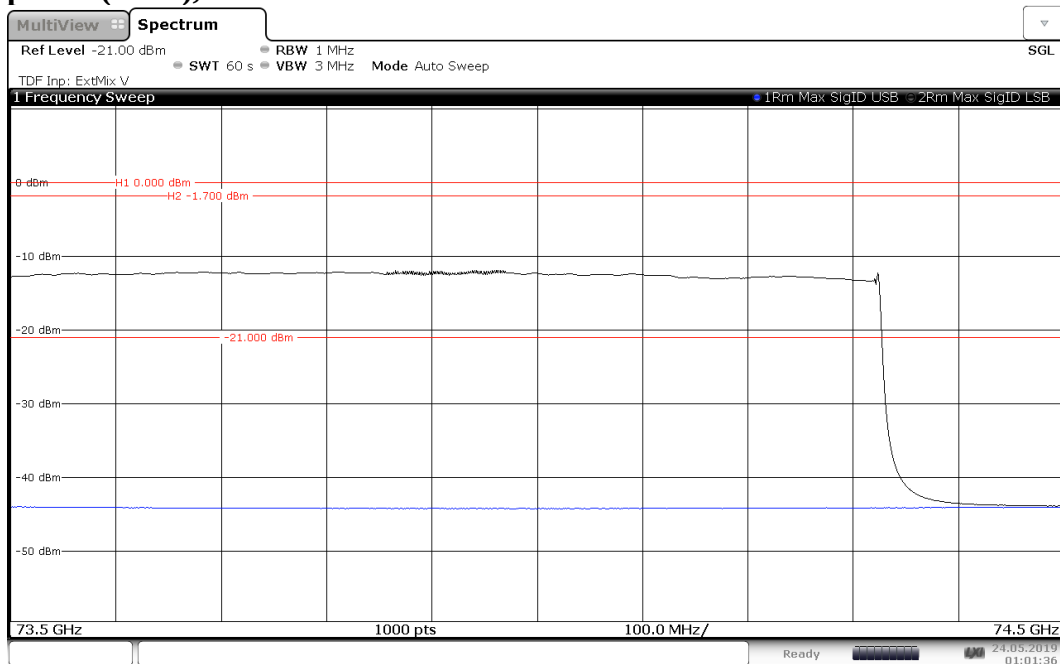
5.23. 55 GHz – 73.5 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



01:37:16 24.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

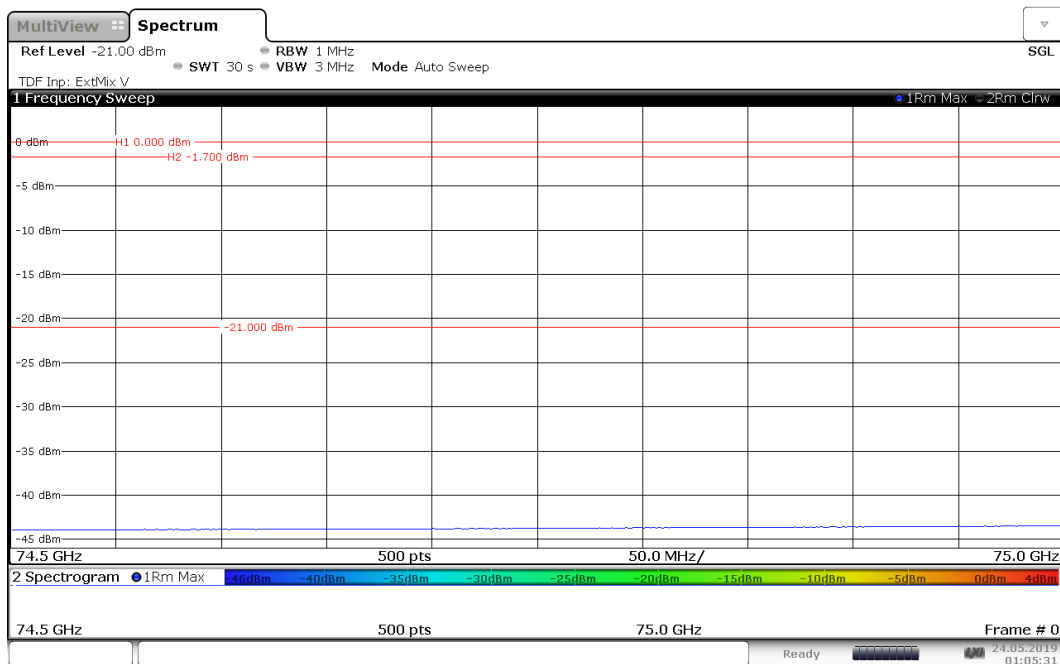
5.24. 73.5 GHz – 74.5 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



01:01:37 24.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and 0 dBm (ISED).

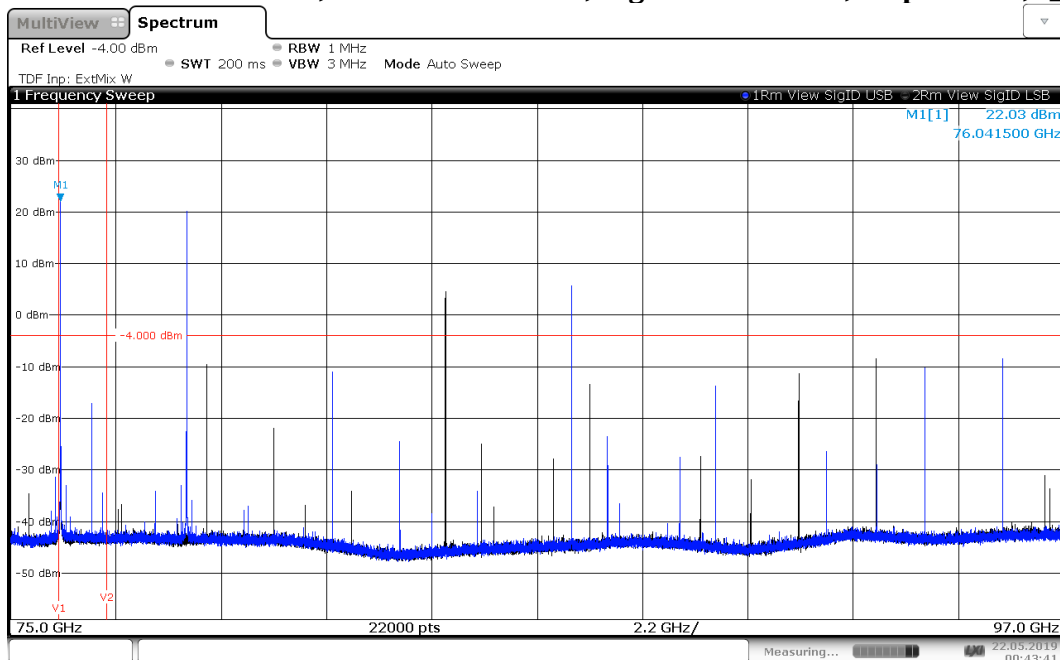
5.25. 74.5 GHz – 75 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



01:05:32 24.05.2019

* -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and 0 dBm (ISED).

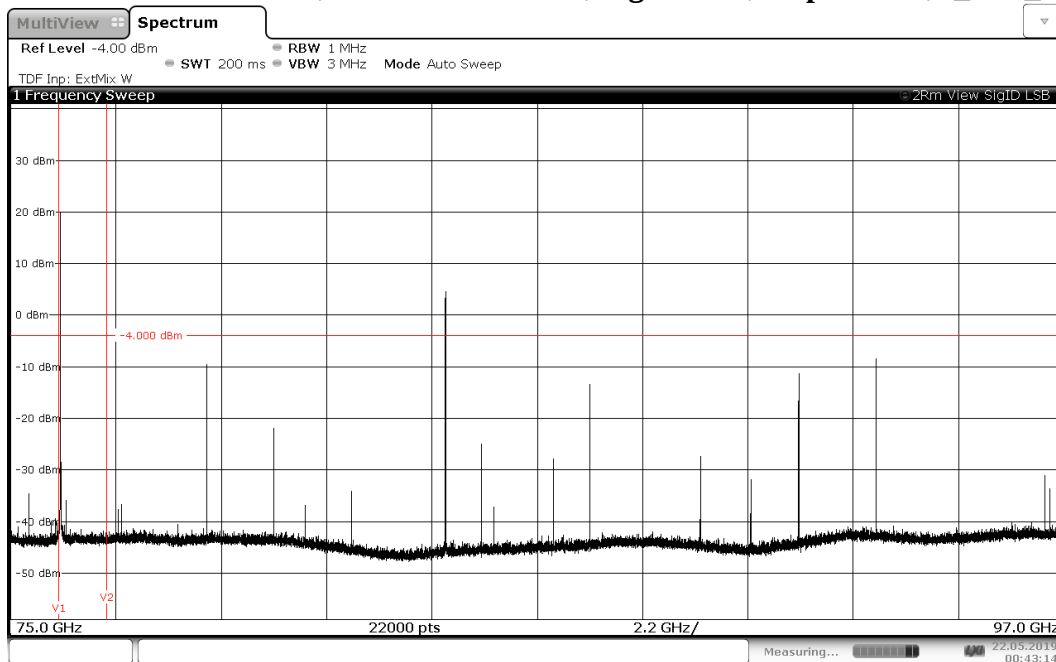
5.26. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



00:43:41 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

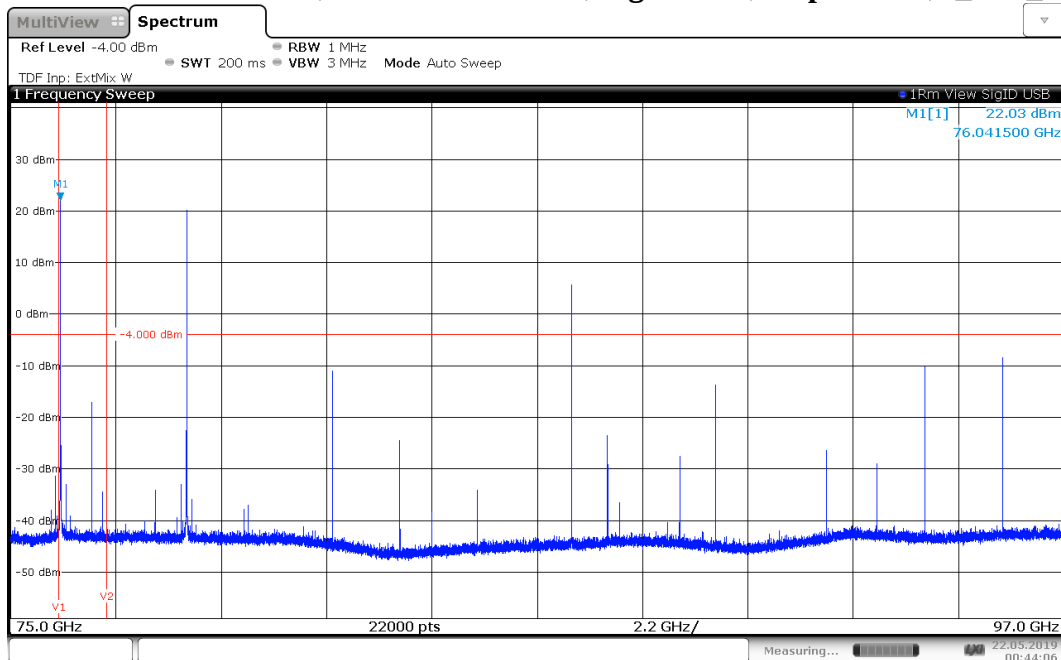
5.27. 75 GHz – 97 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_low



00:43:15 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSB traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

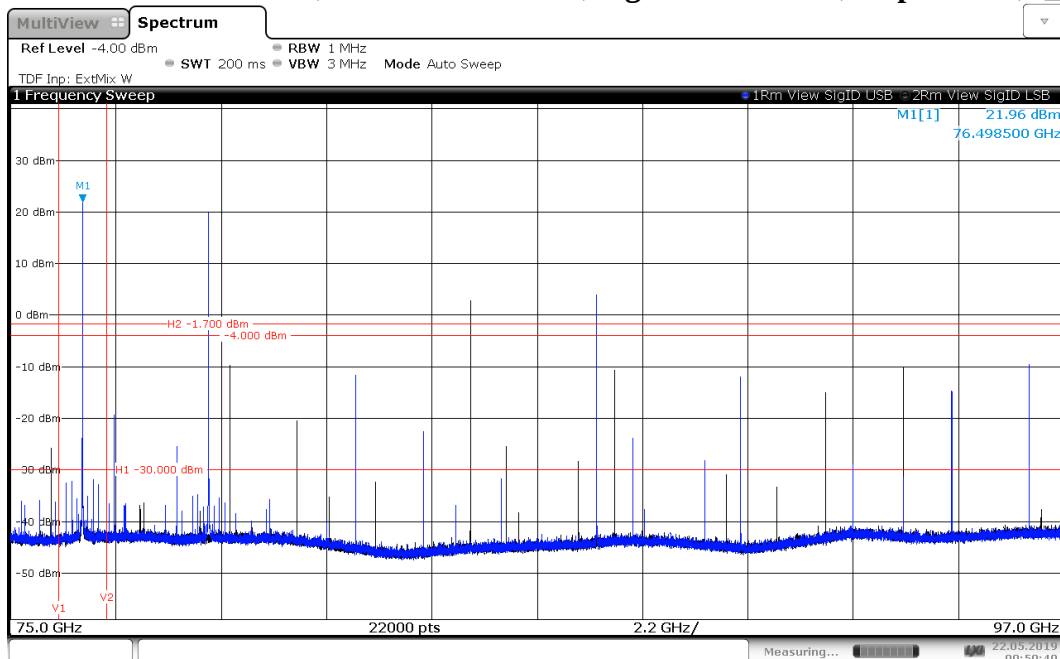
5.28. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_low



00:44:06 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSB traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

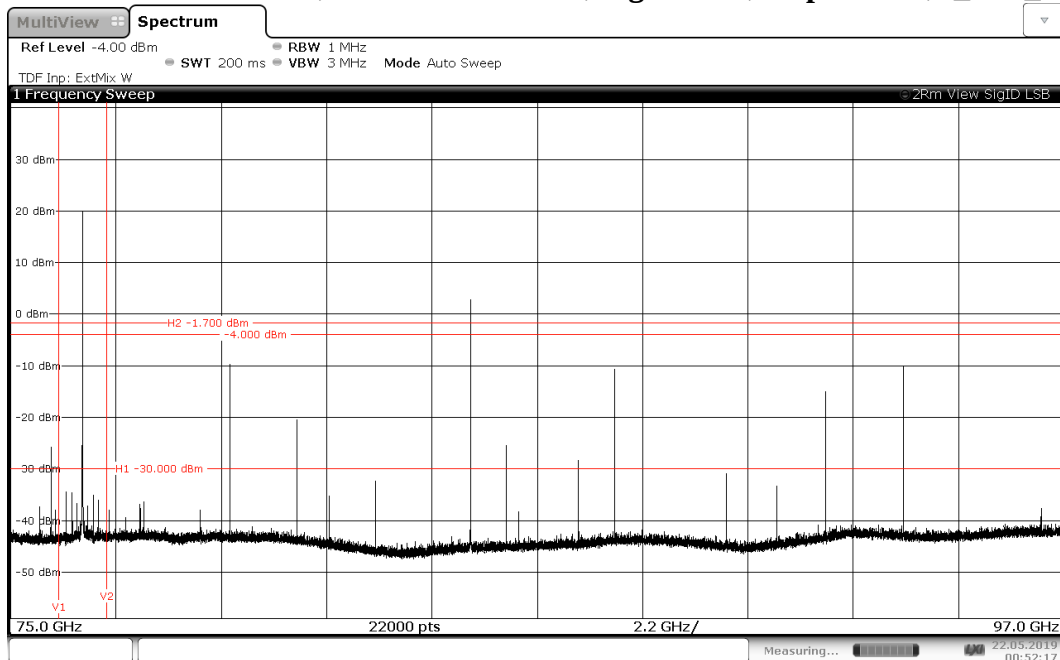
5.29. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



00:50:50 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

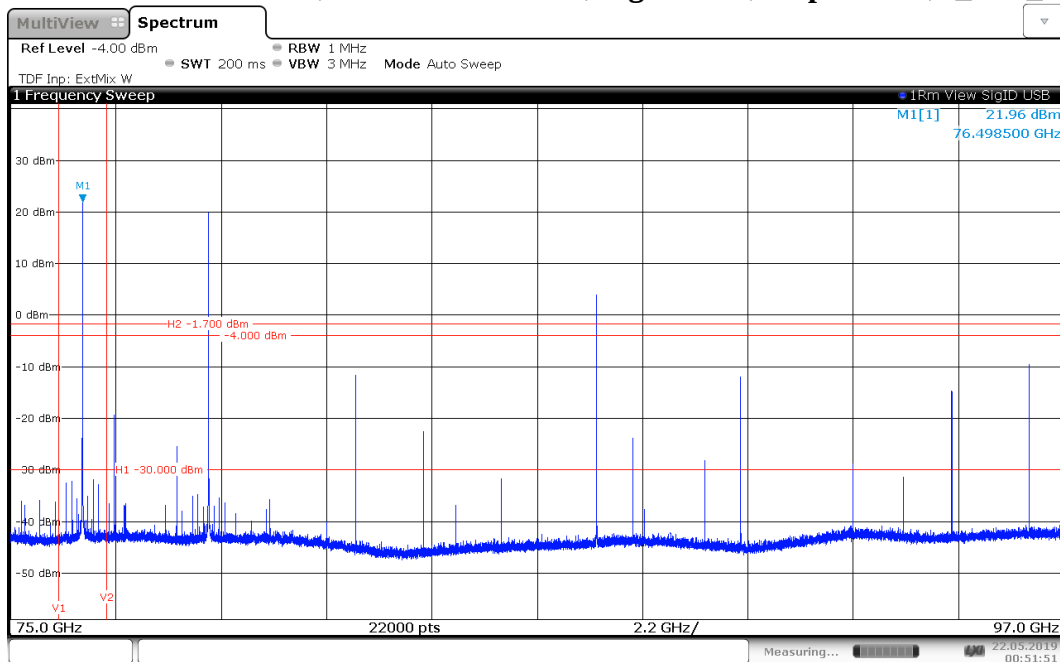
5.30. 75 GHz – 97 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_center



00:52:18 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

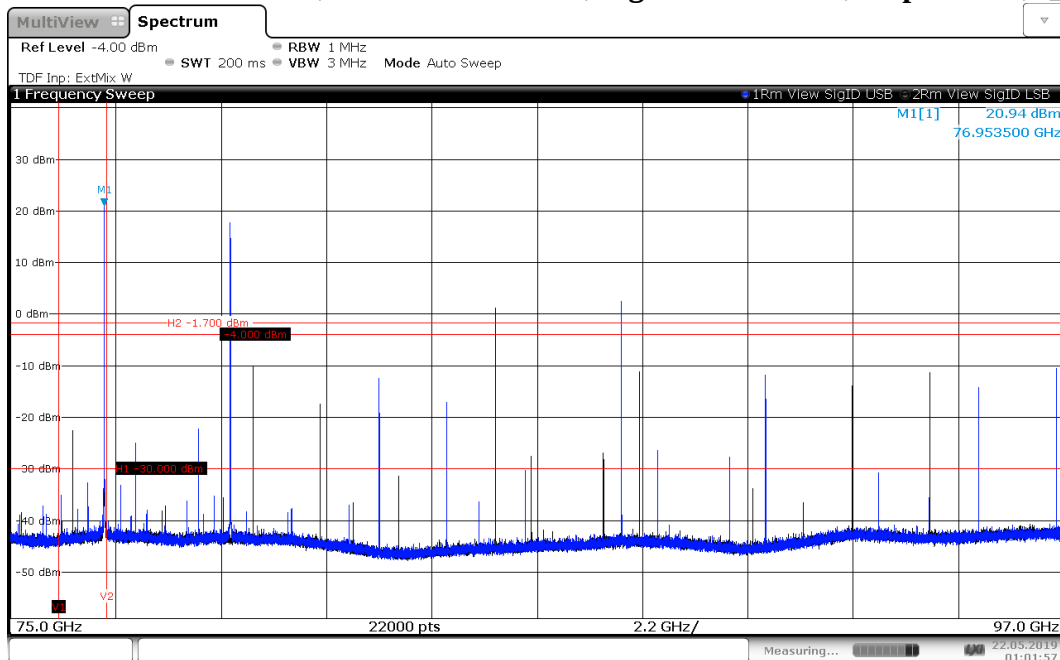
5.31. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_center



00:51:52 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

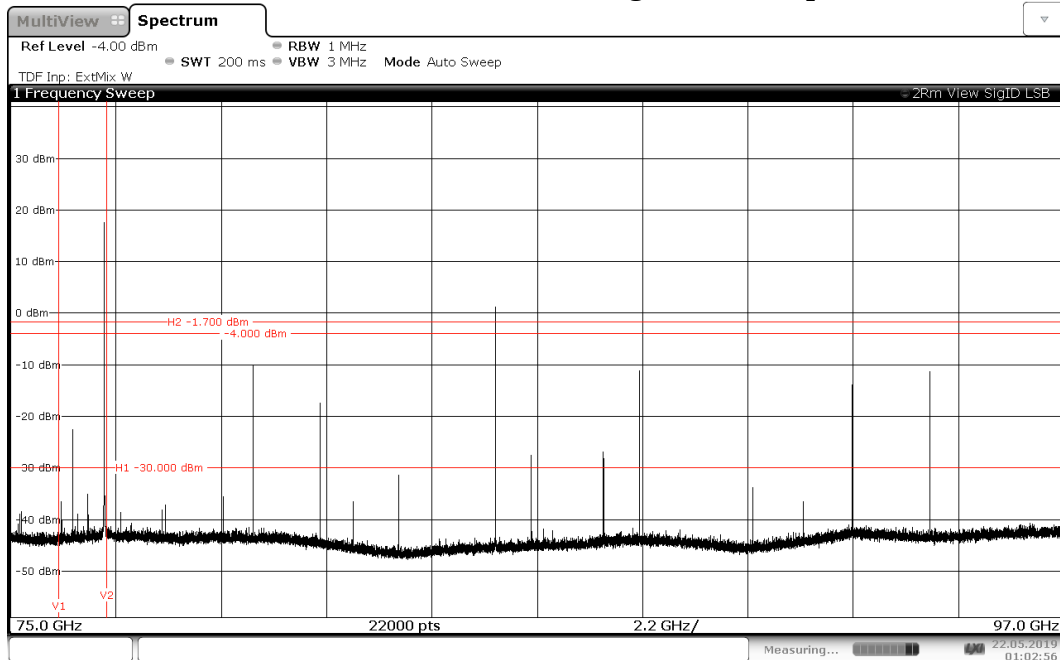
5.32. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



01:01:57 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

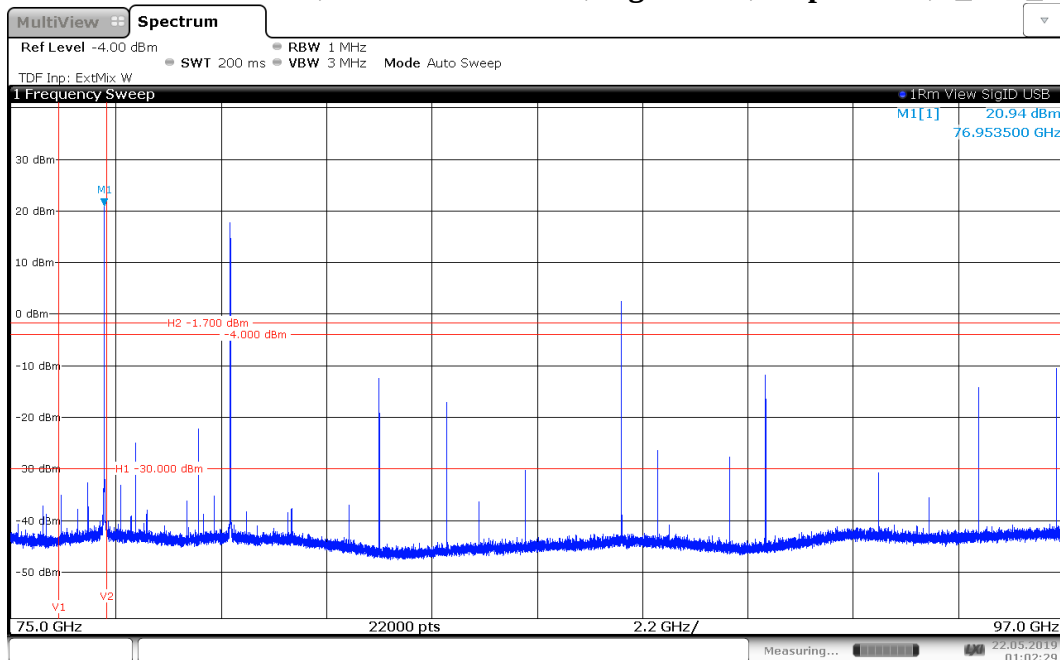
5.33. 75 GHz – 97 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_high



01:02:56 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSB traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

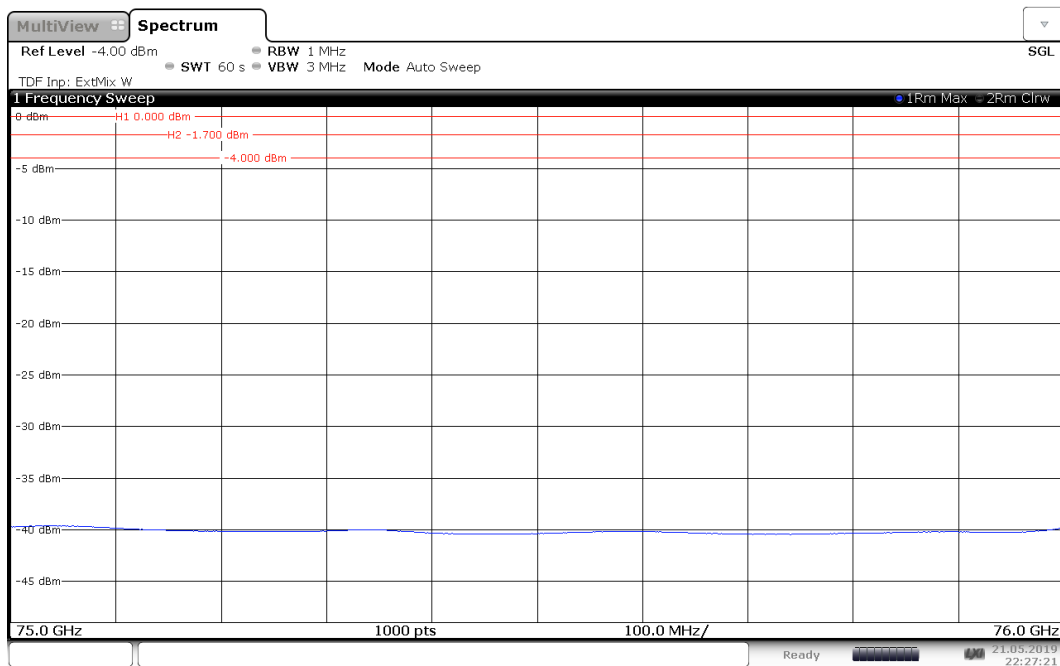
5.34. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_high



01:02:29 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSB traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

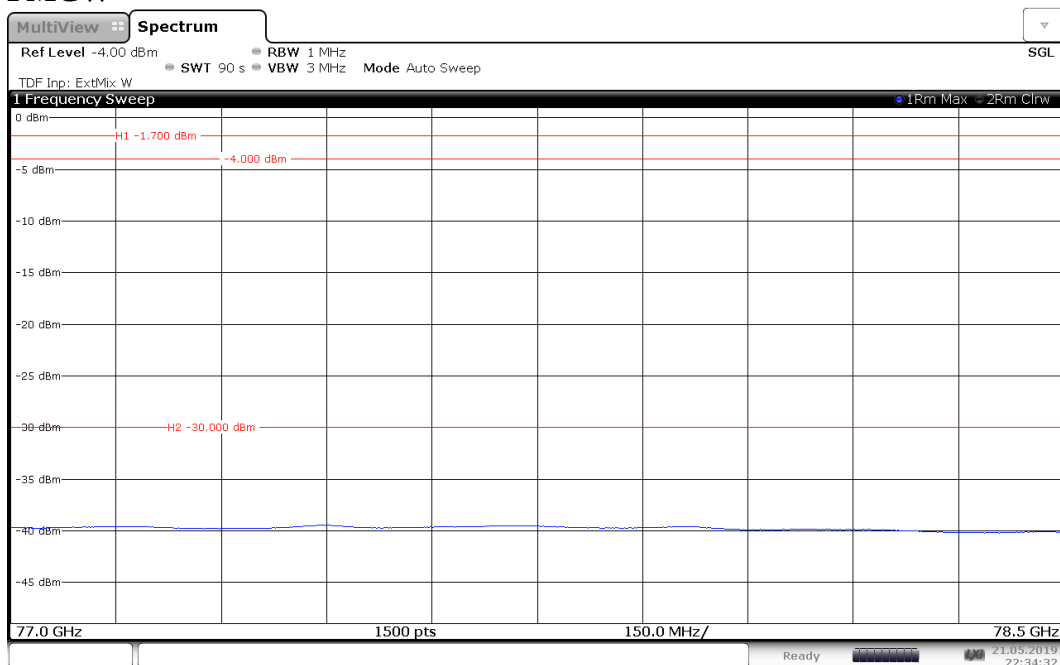
5.35. 75 GHz – 76 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



22:27:22 21.05.2019

*-4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and 0 dBm (ISED).

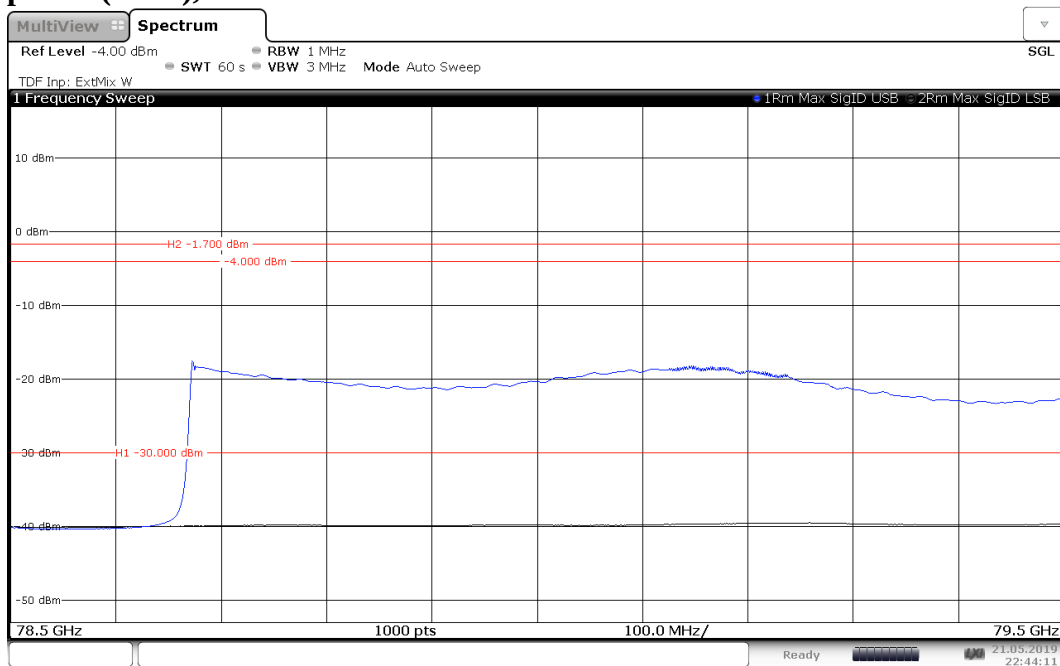
5.36. 77 GHz – 78.5 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



22:34:32 21.05.2019

* -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

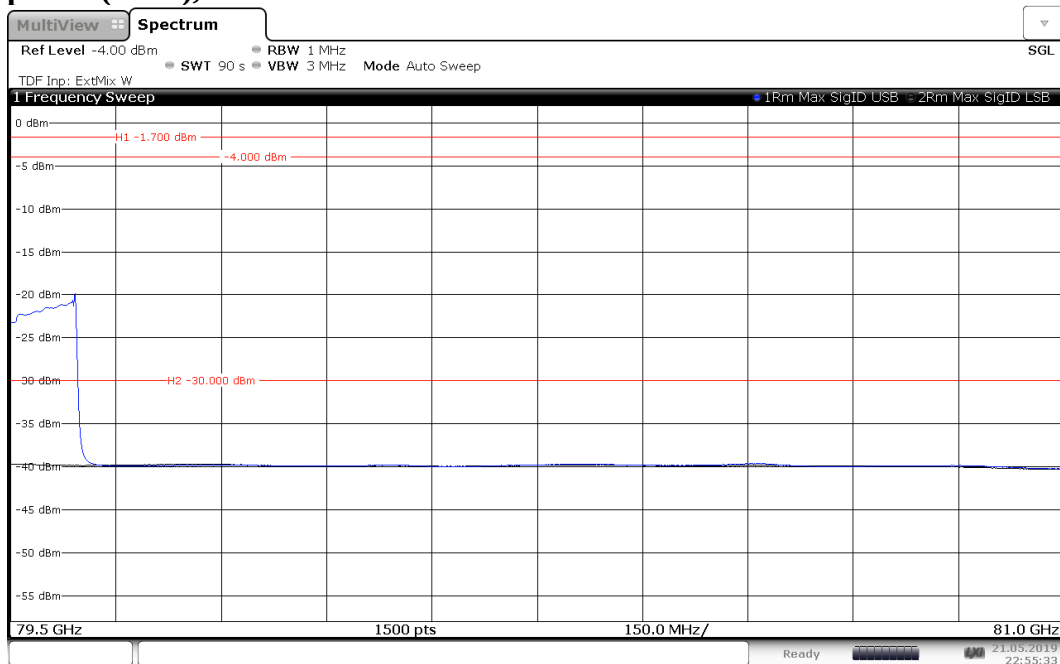
5.37. 78.5 GHz – 79.5 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



22:44:12 21.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

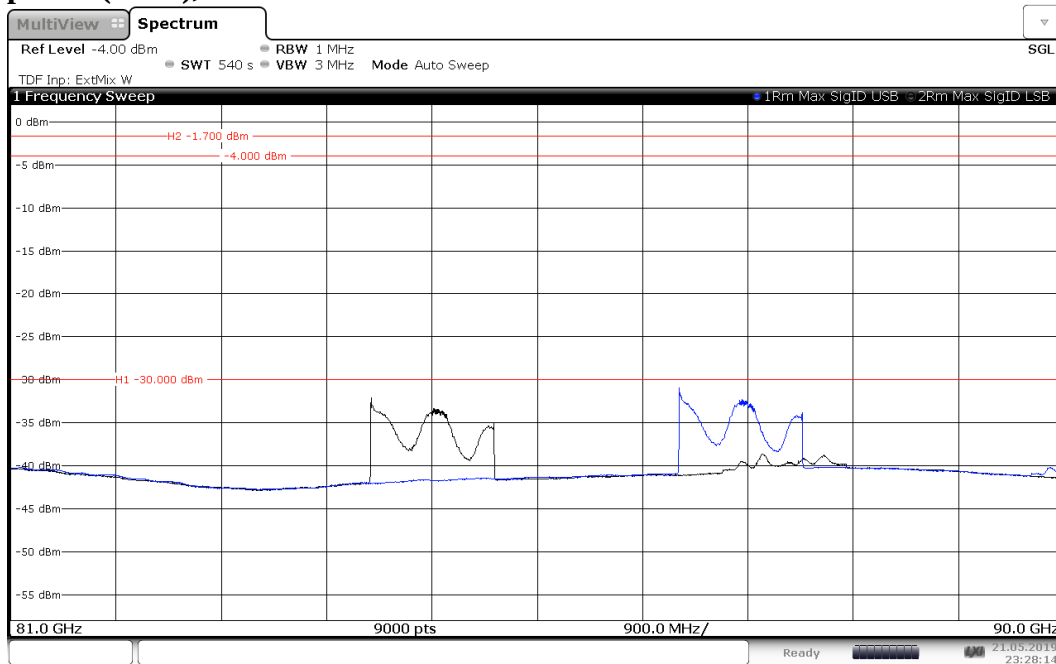
5.38. 79.5 GHz – 81 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



22:55:33 21.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

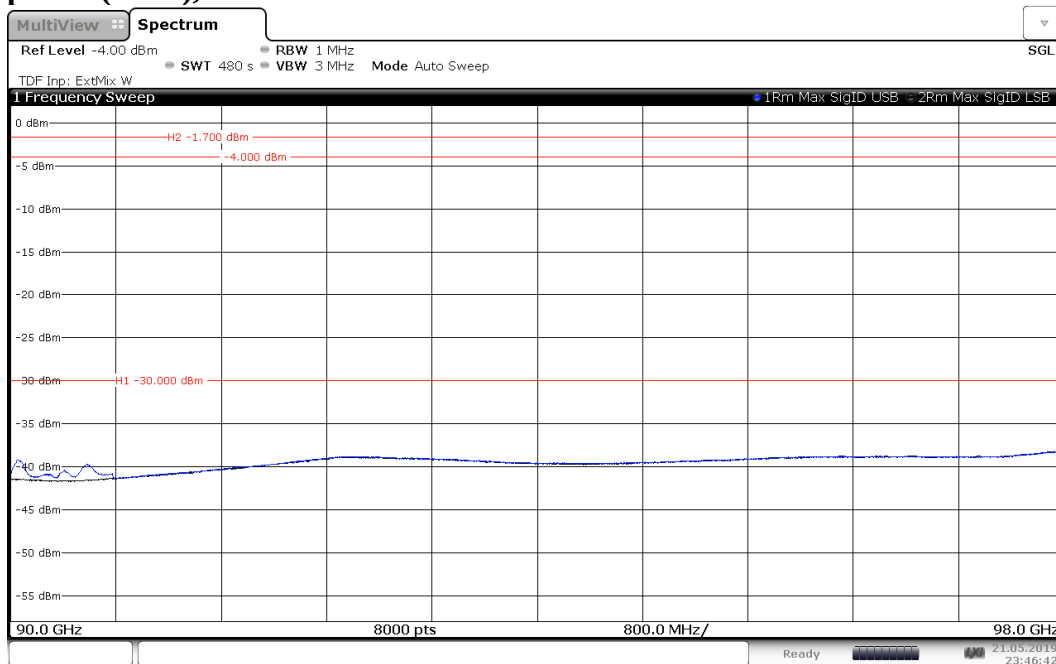
5.39. 81 GHz – 90 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



23:28:15 21.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

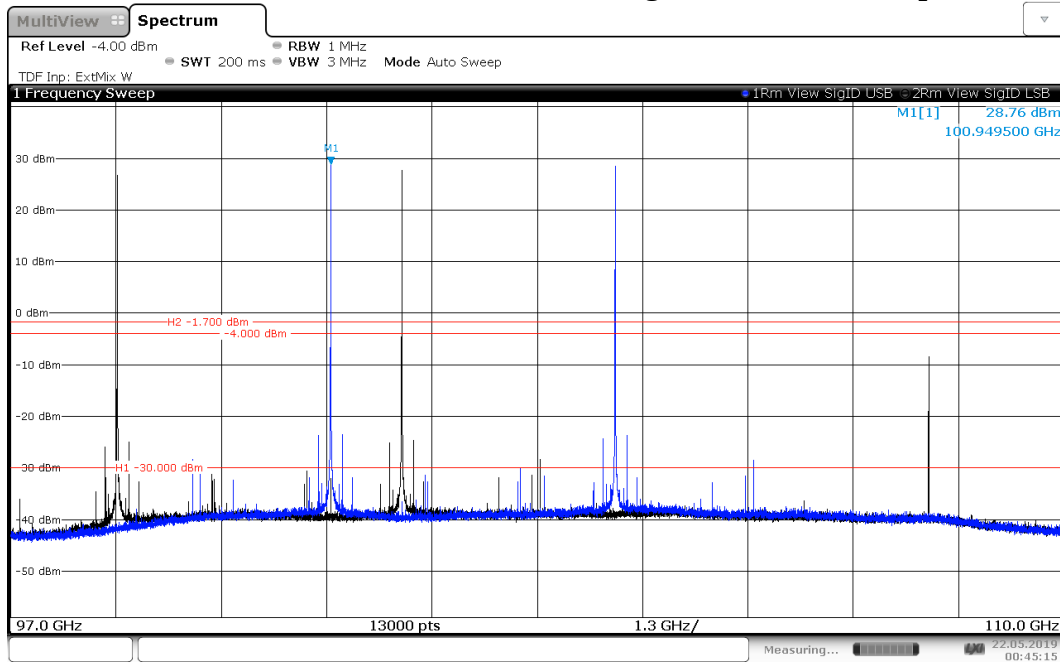
5.40. 90 GHz – 98 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



23:46:43 21.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

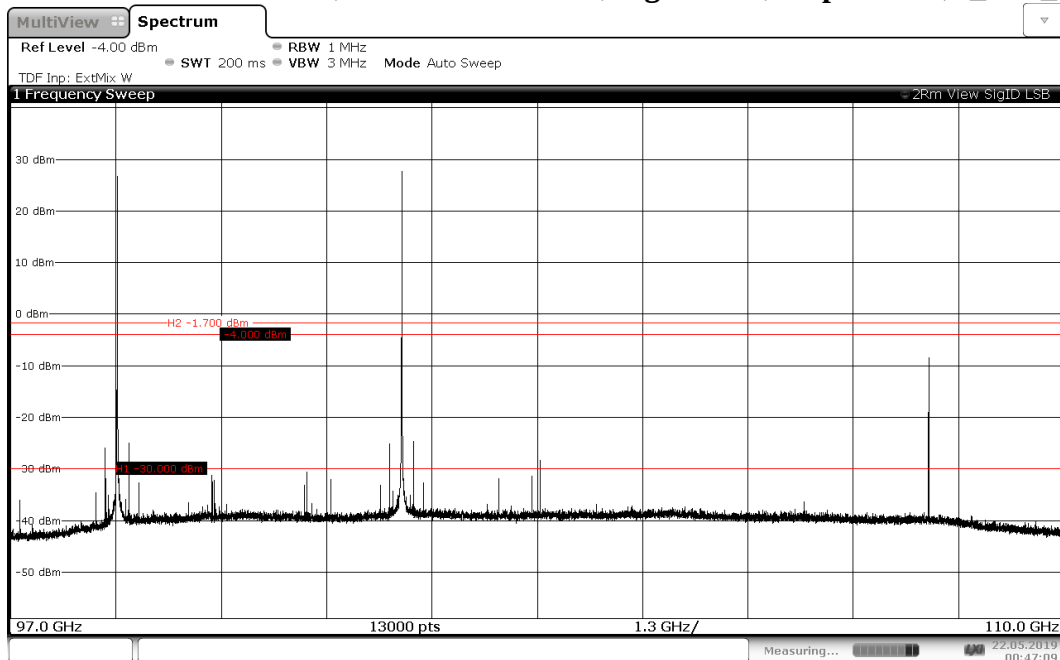
5.41. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



00:45:15 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

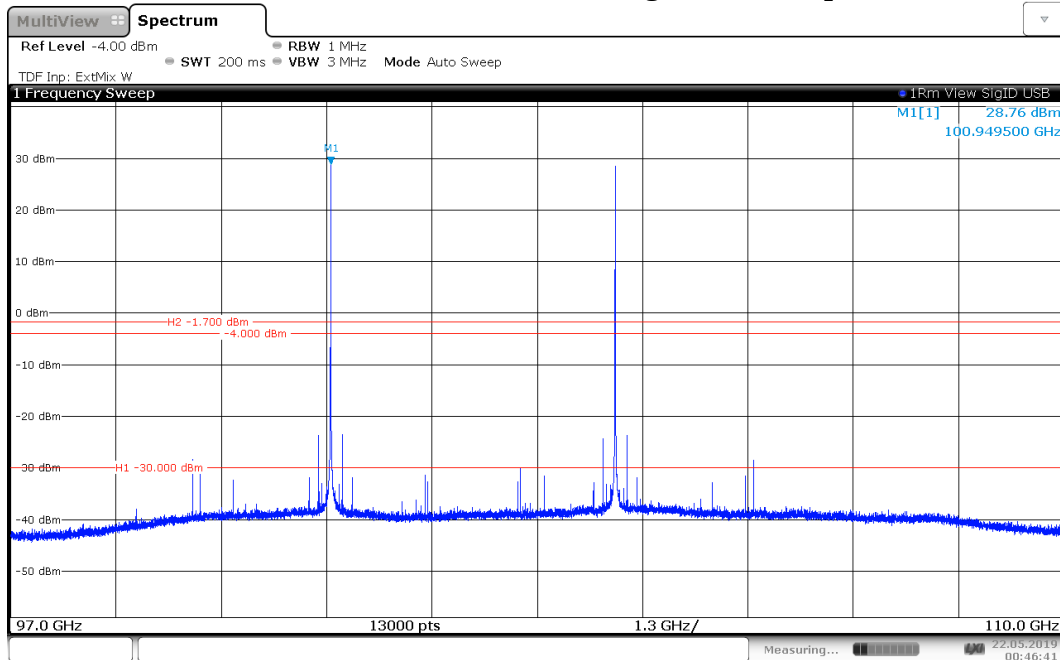
5.42. 97 GHz – 110 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_low



00:47:09 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

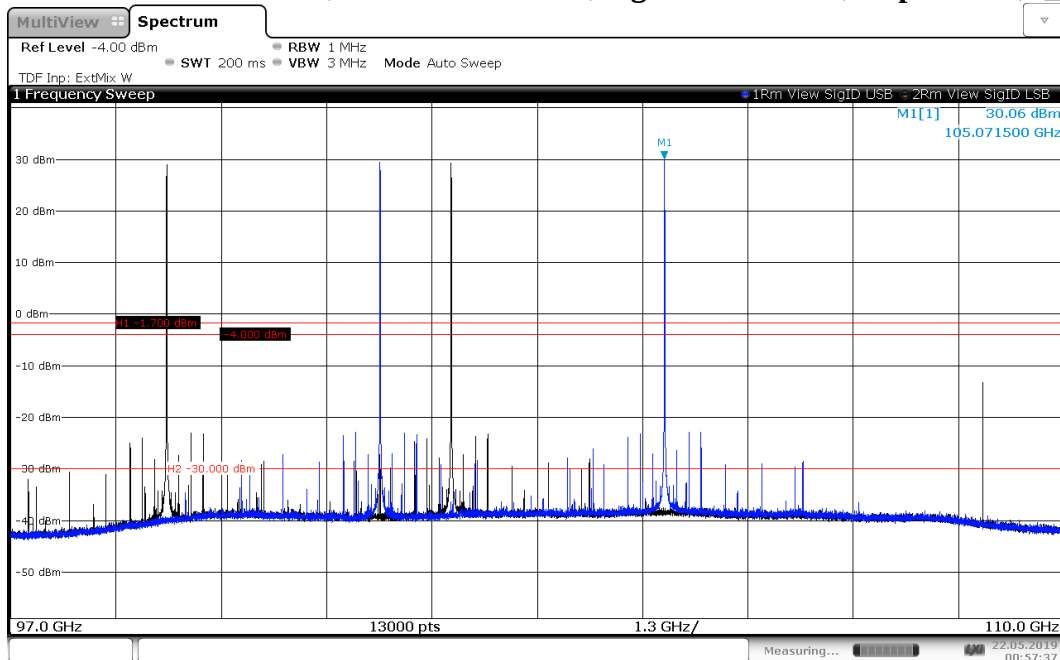
5.43. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_low



00:46:42 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

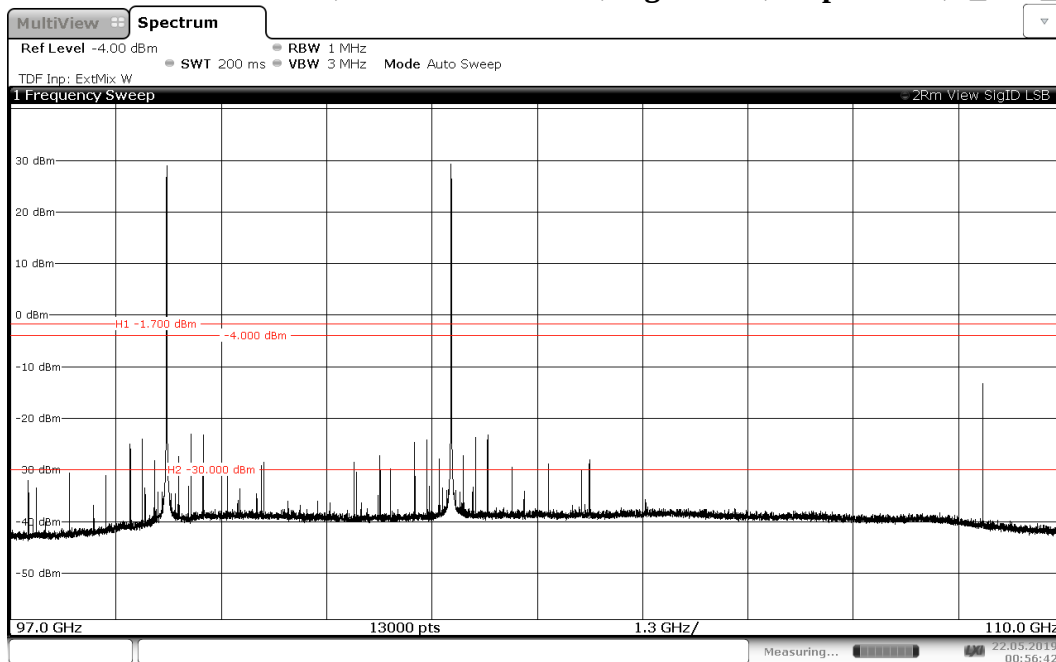
5.44. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



00:57:38 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

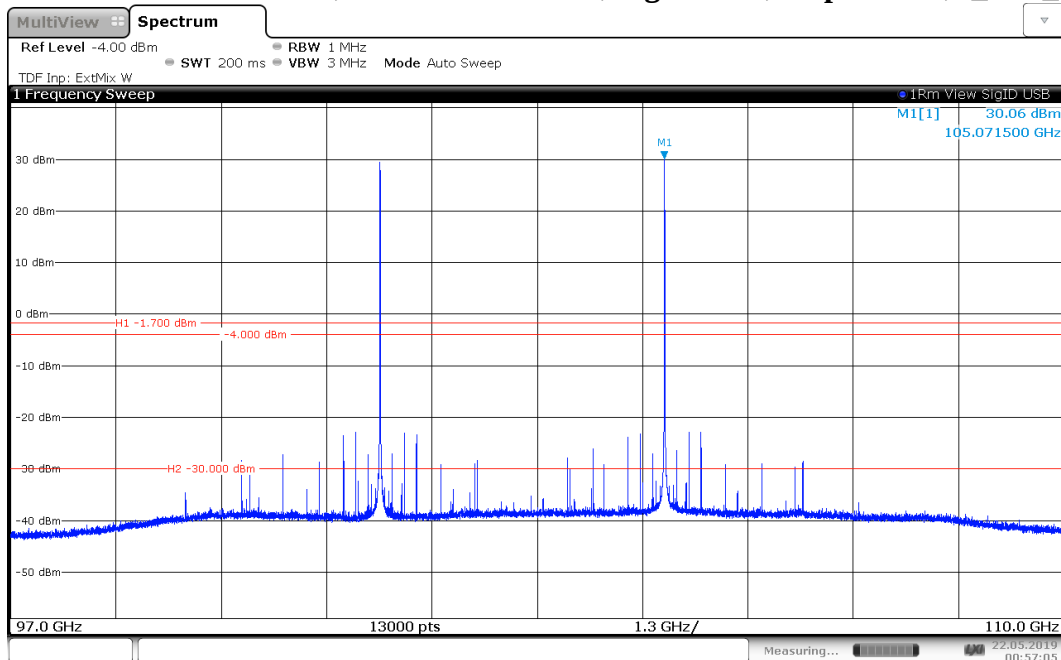
5.45. 97 GHz – 110 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_center



00:56:43 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSB traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

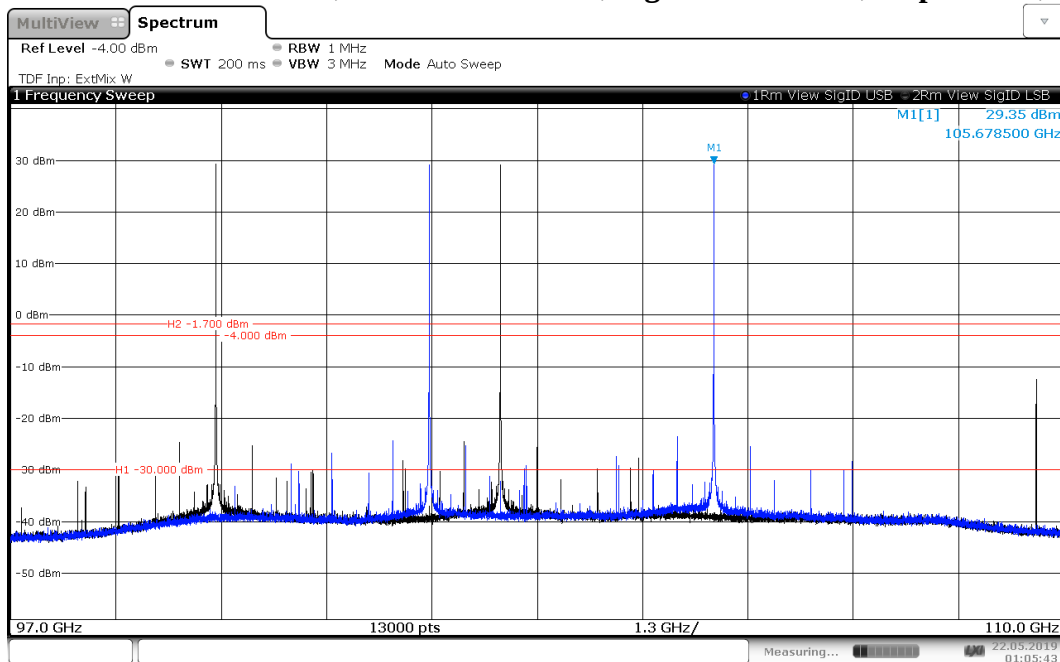
5.46. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_center



00:57:05 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSB traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

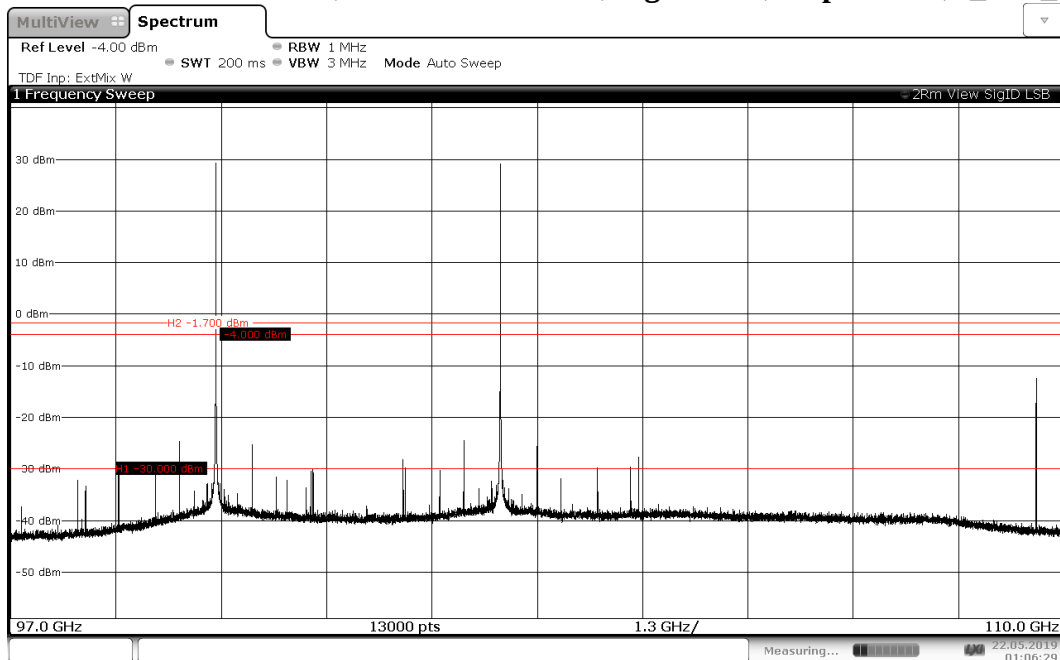
5.47. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



01:05:44 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

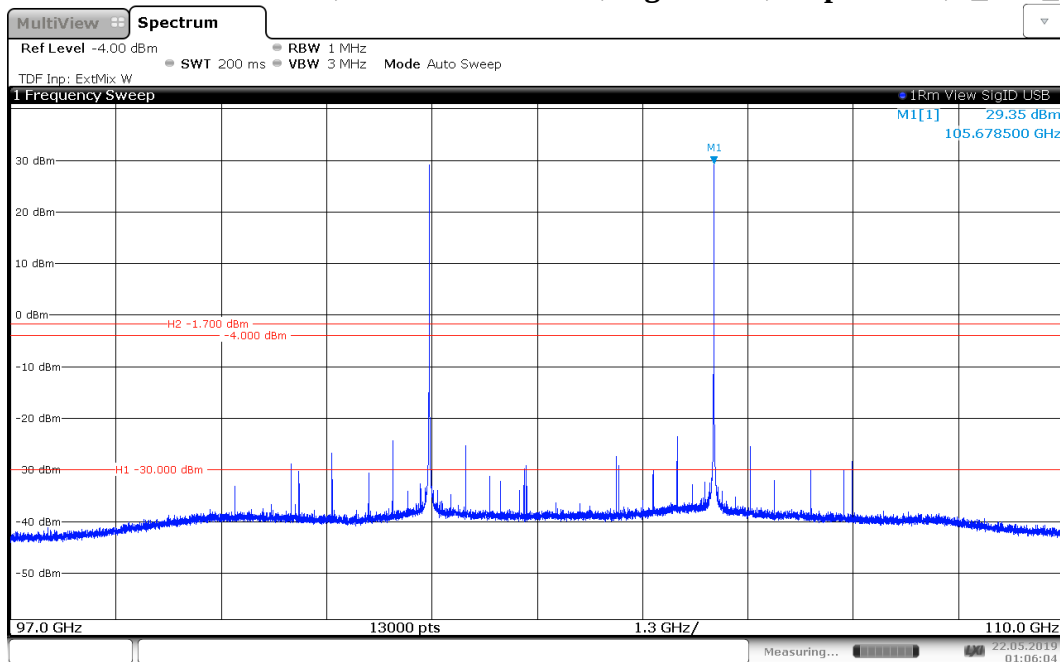
5.48. 97 GHz – 110 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_high



01:06:29 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

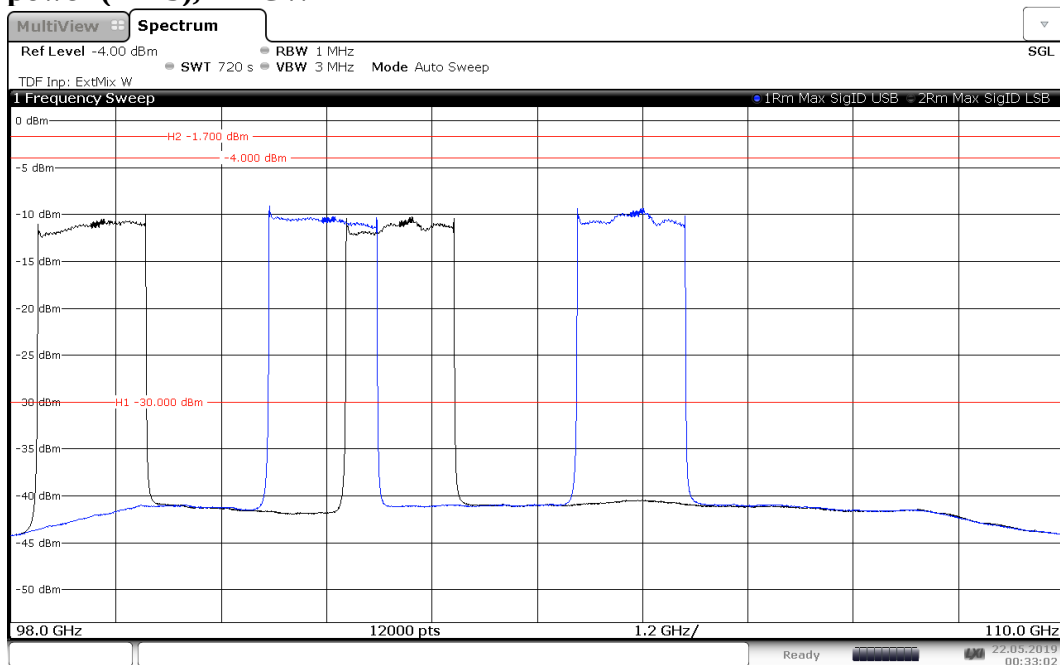
5.49. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_high



01:06:05 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

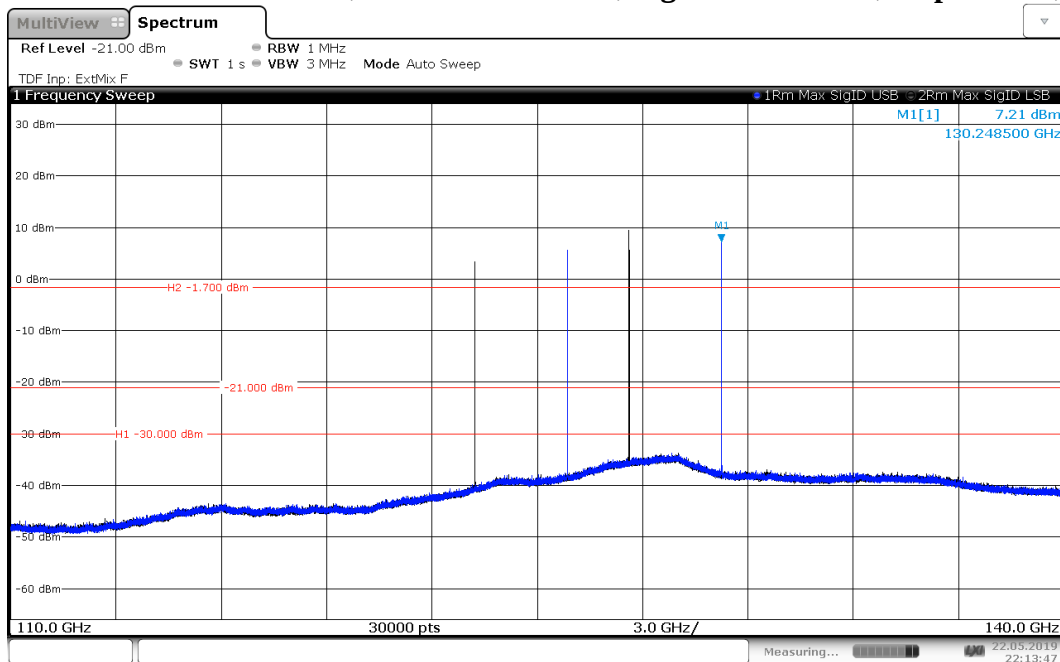
5.50. 98 GHz – 110 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



00:33:02 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -4 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

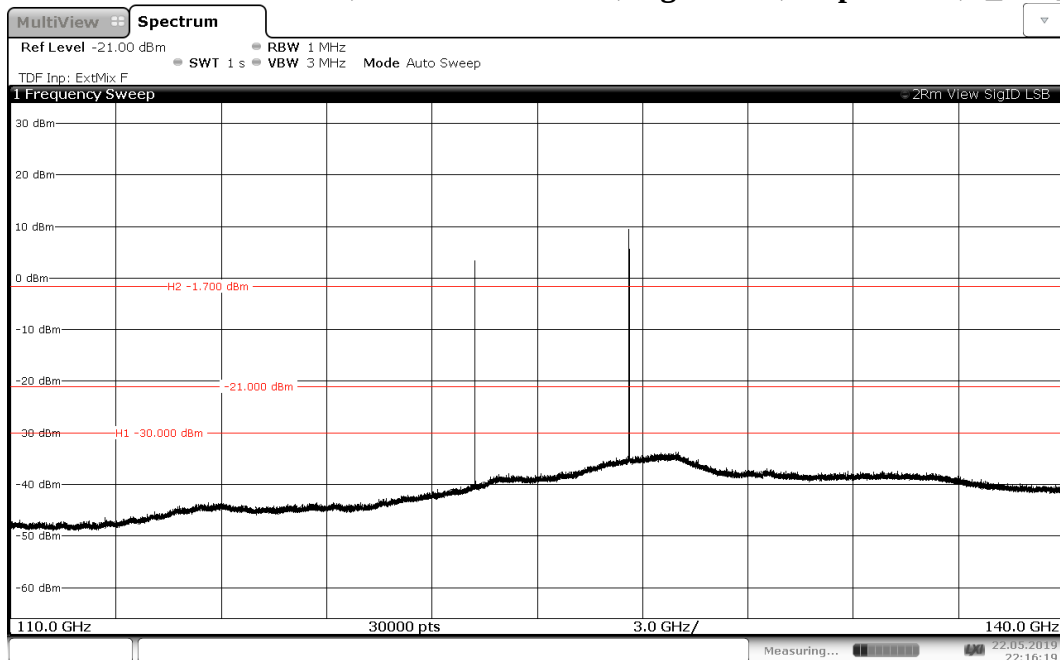
5.51. 110 GHz – 140 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



22:13:48 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

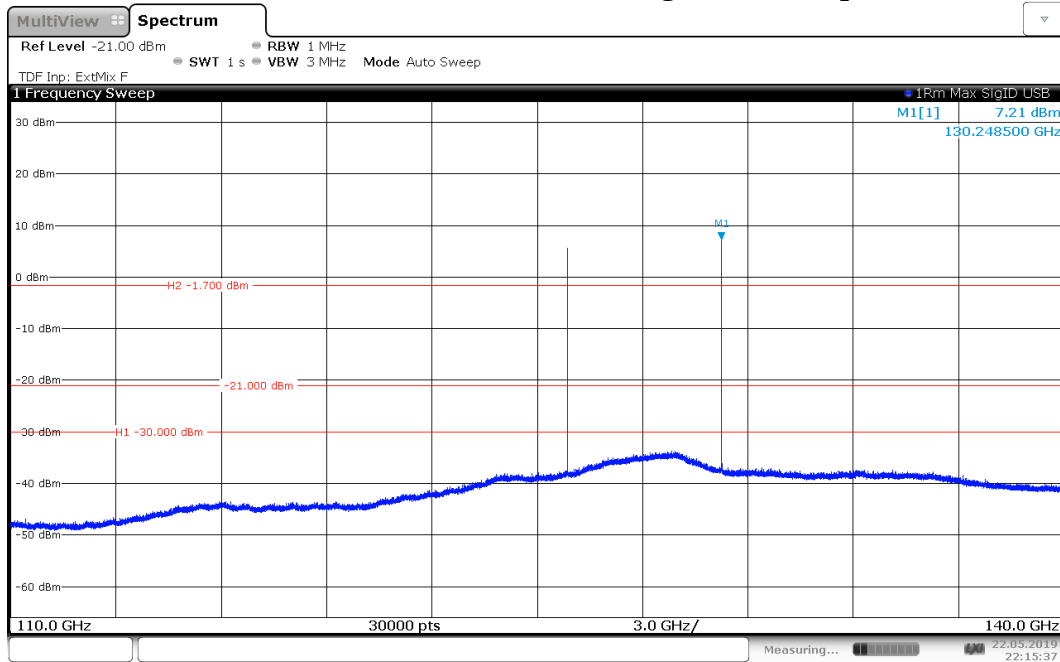
5.52. 110 GHz – 140 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_low



22:16:19 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

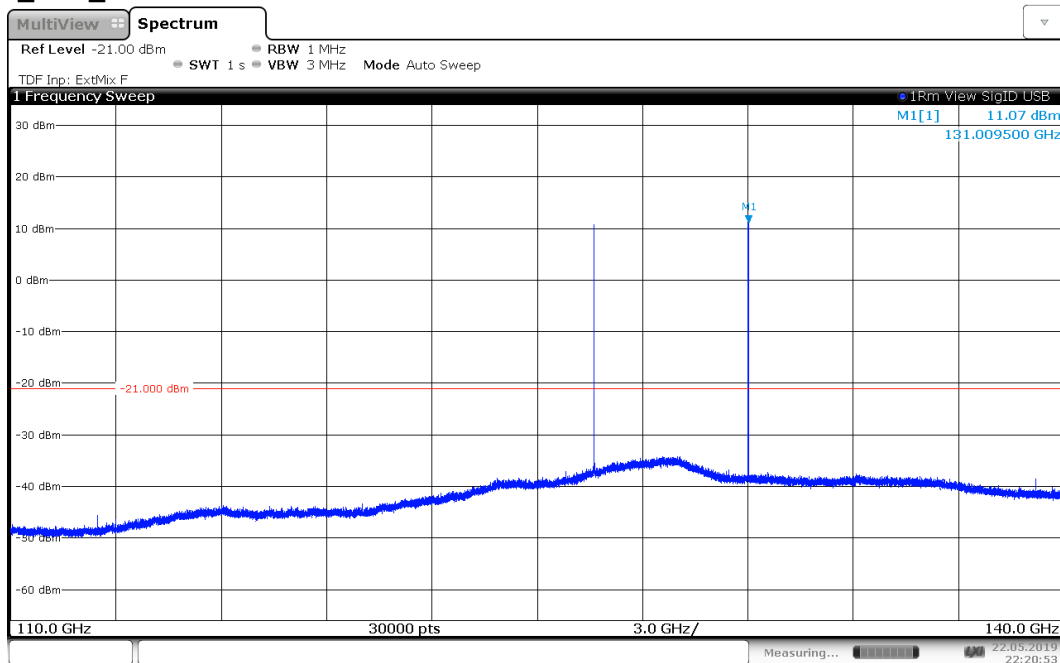
5.53. 110 GHz – 140 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_low



22:15:37 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

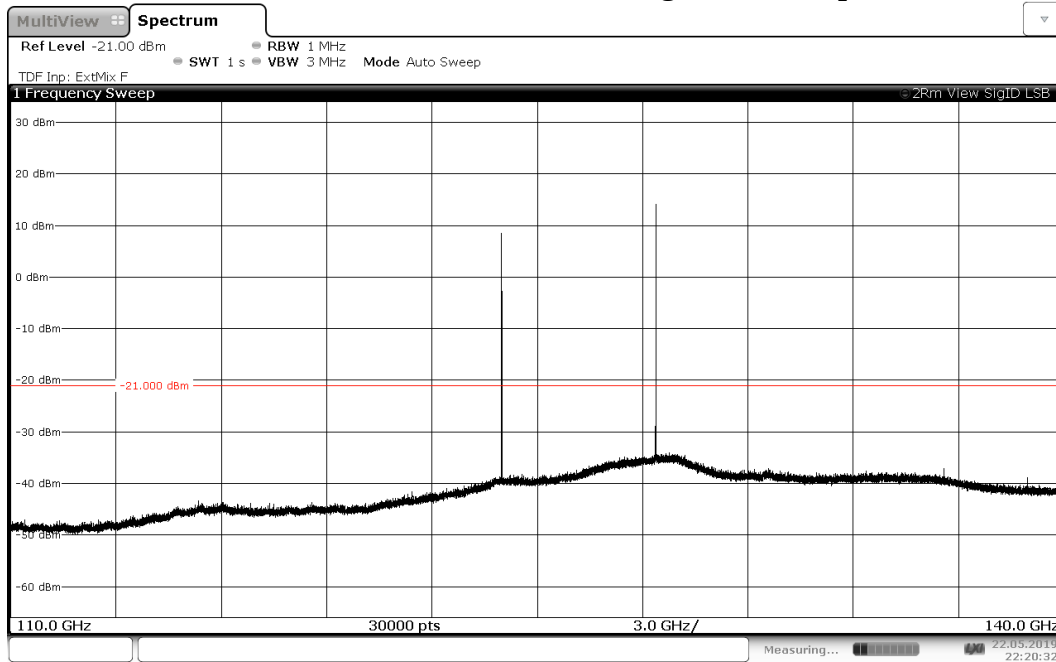
5.54. 110 GHz – 140 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



22:20:54 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

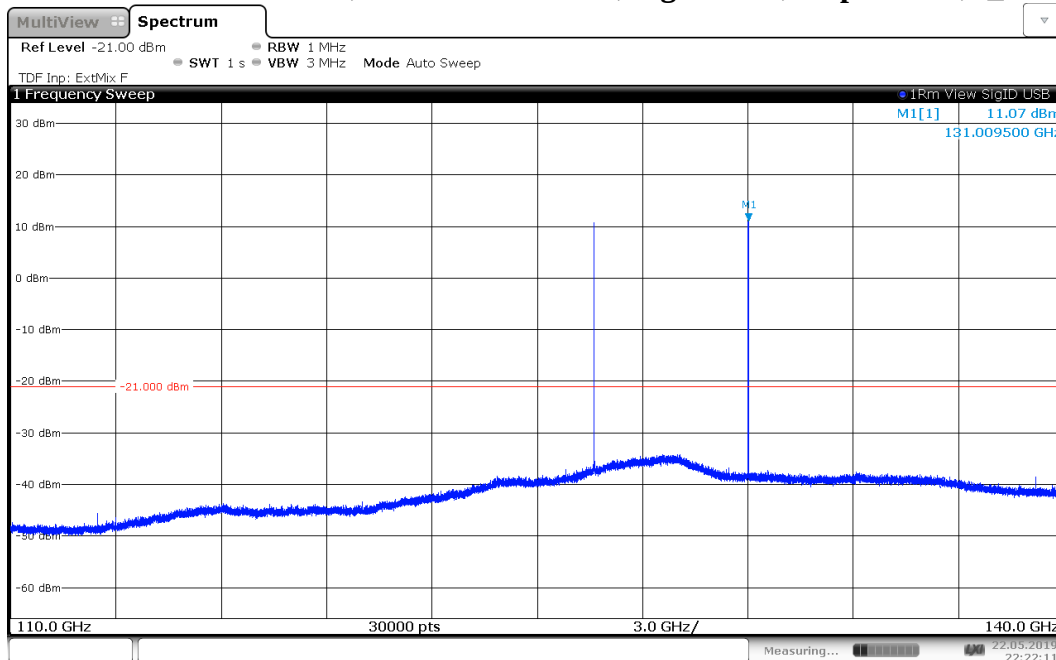
5.55. 110 GHz – 140 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_center



22:20:32 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

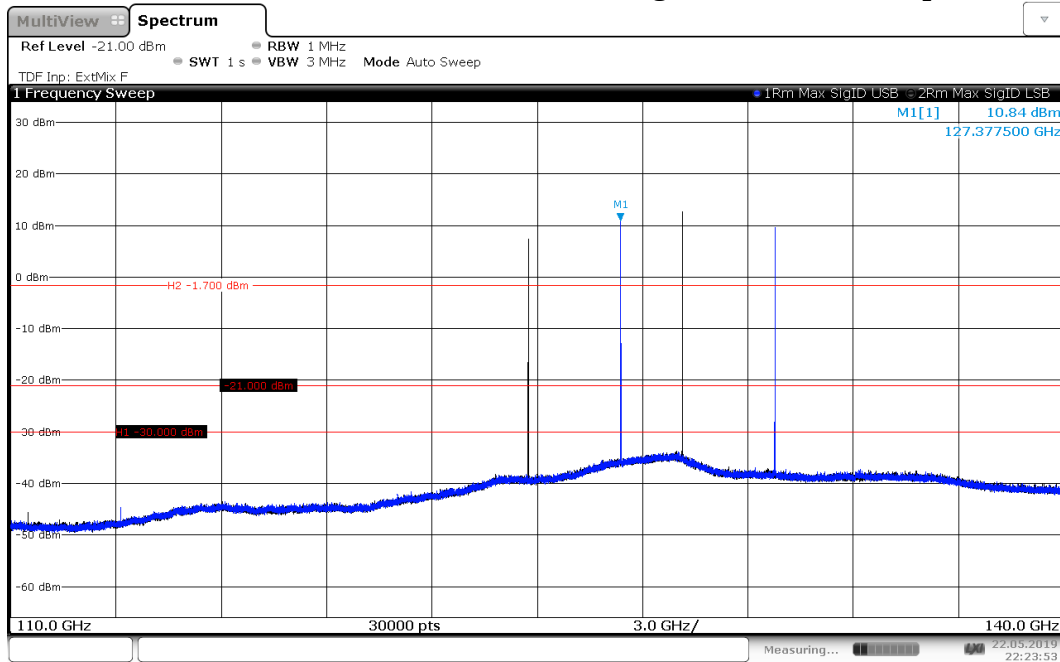
5.56. 110 GHz – 140 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_center



22:22:11 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

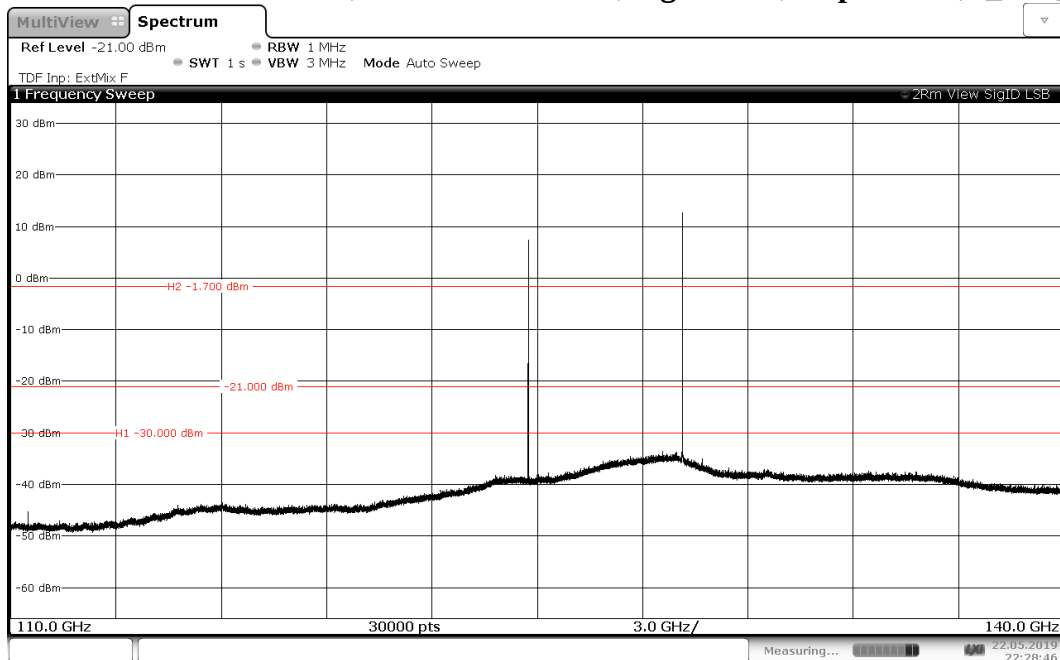
5.57. 110 GHz – 140 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



22:23:54 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

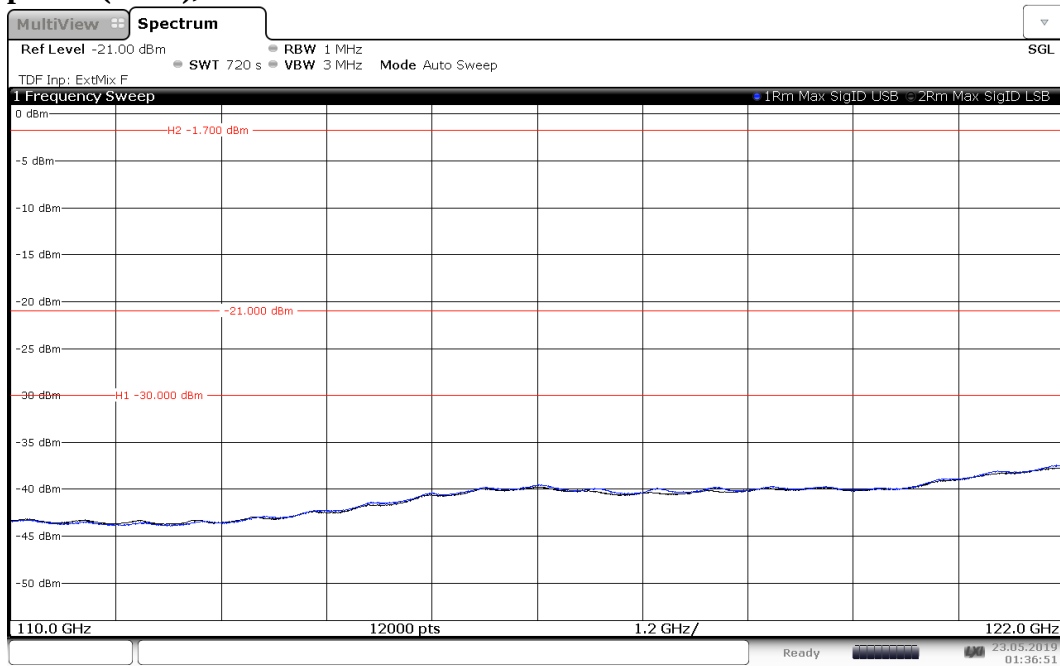
5.58. 110 GHz – 140 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_high



22:28:46 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

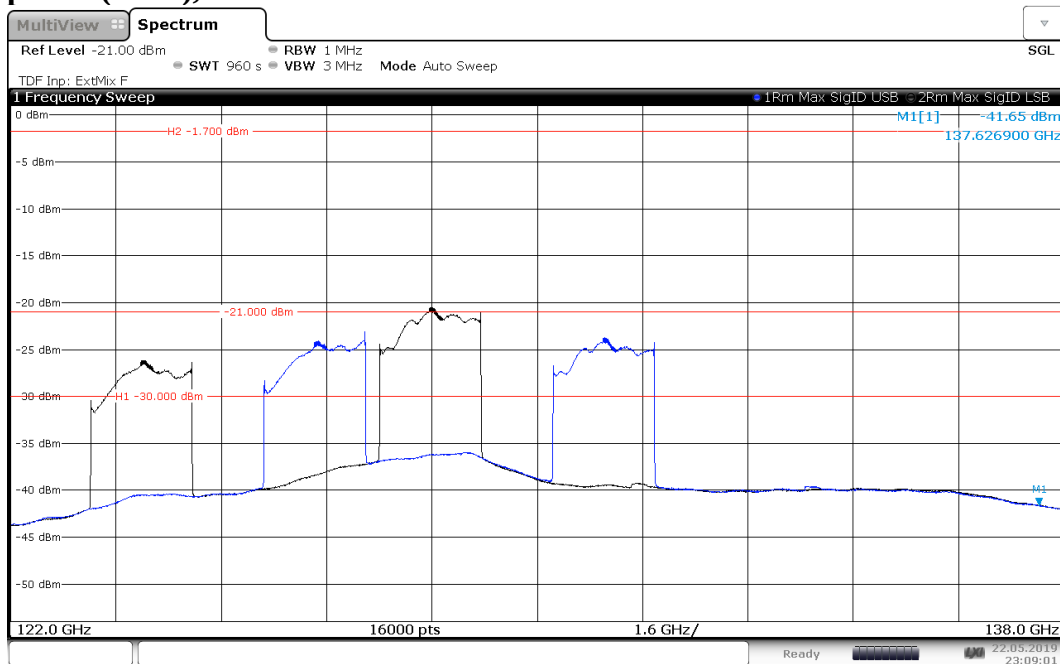
5.59. 110 GHz – 122 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



01:36:51 23.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

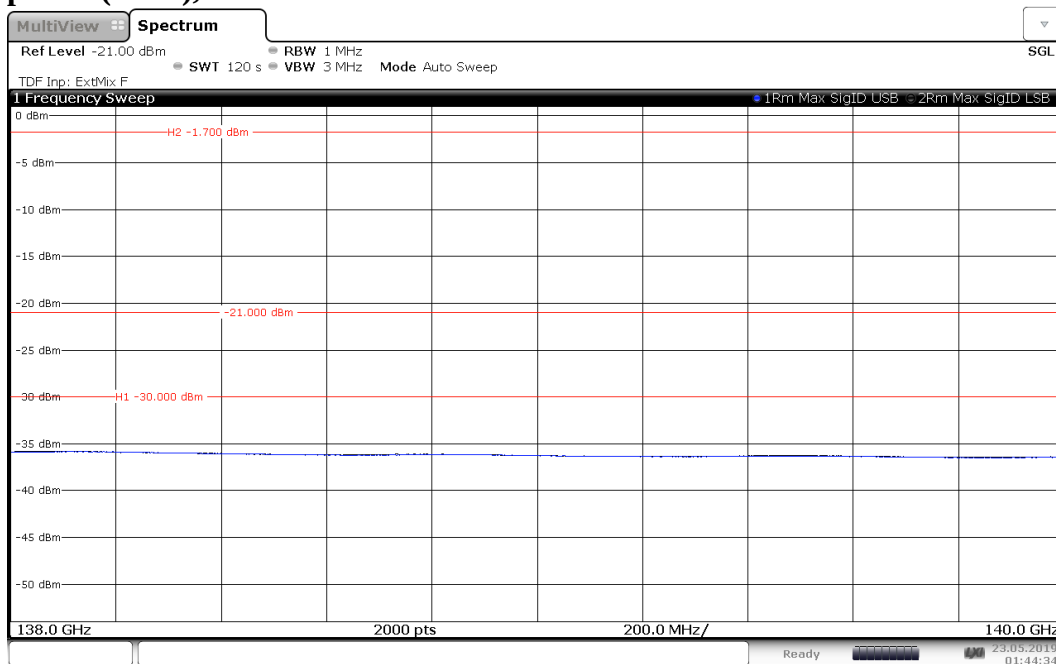
5.60. 122 GHz – 138 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



23:09:02 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED). No real signal is above the limit.

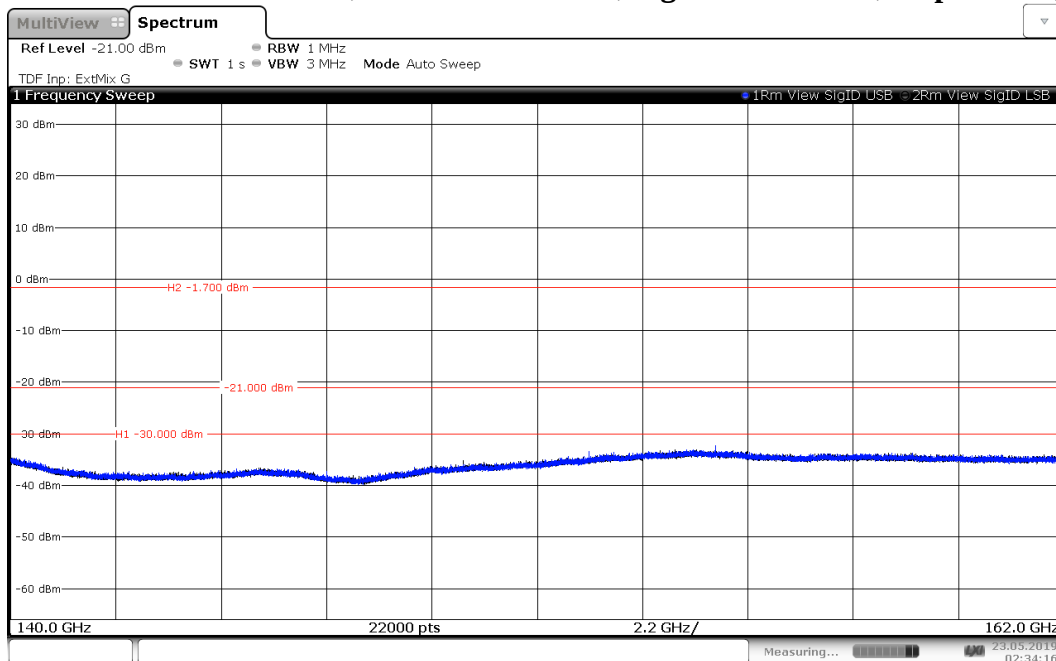
5.61. 138 GHz – 140 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



01:44:35 23.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

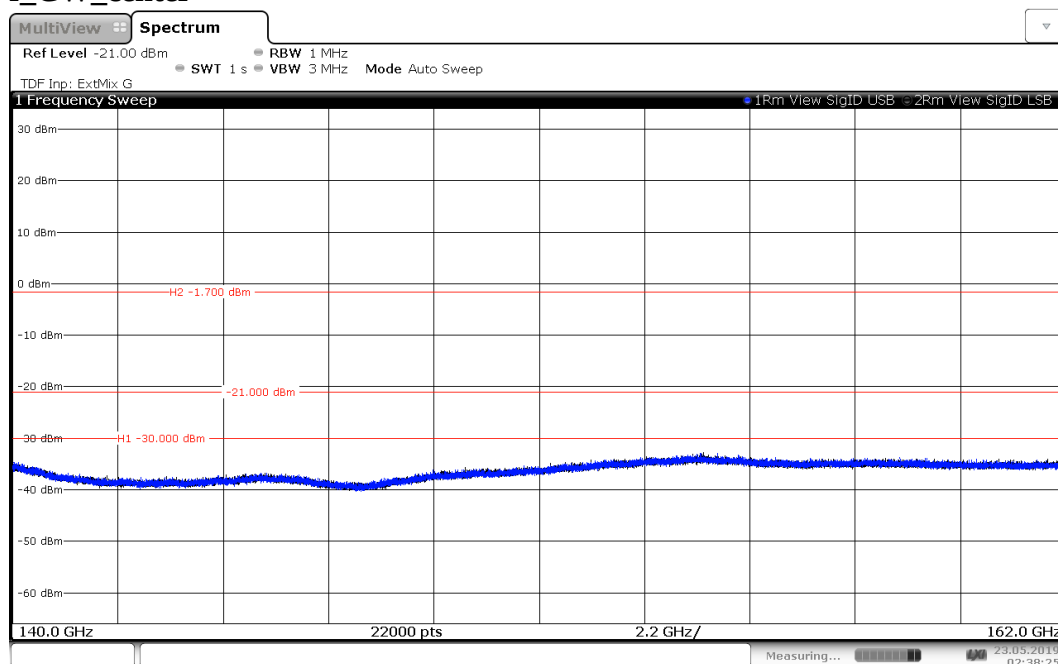
5.62. 140 GHz – 162 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



02:34:16 23.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

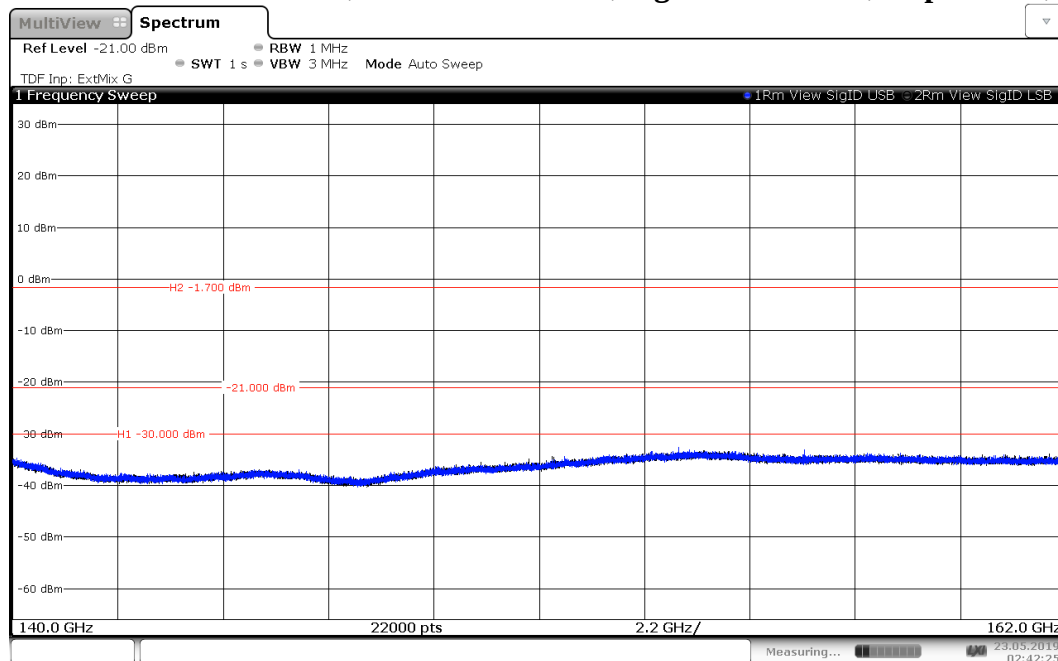
5.63. 140 GHz – 162 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



02:38:26 23.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

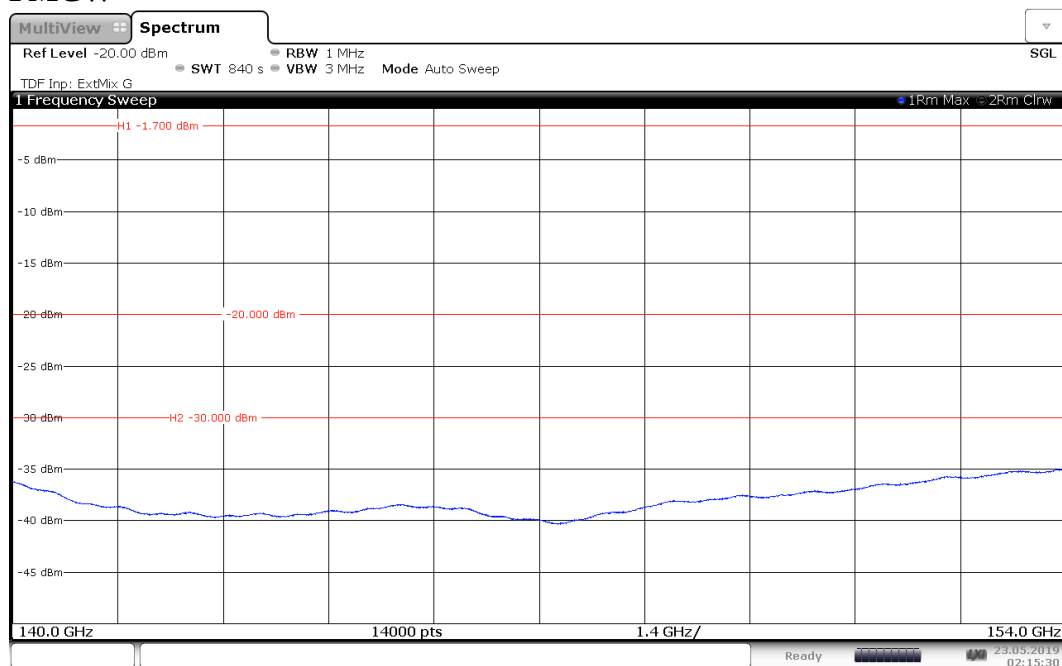
5.64. 140 GHz – 162 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



02:42:26 23.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

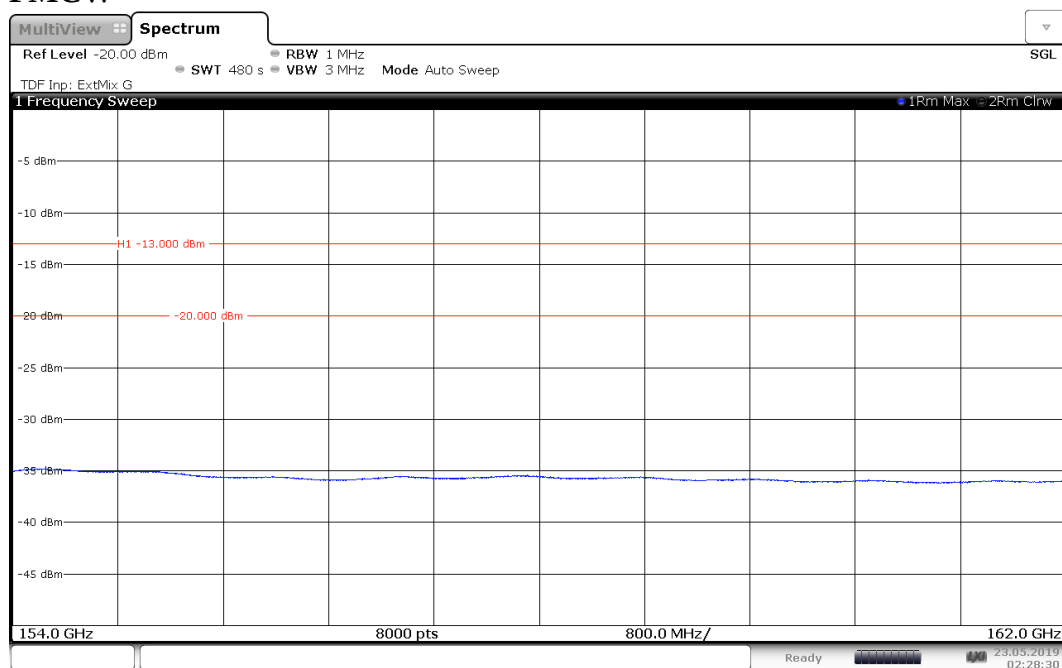
5.65. 140 GHz – 154 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



02:15:31 23.05.2019

* -20 dB is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

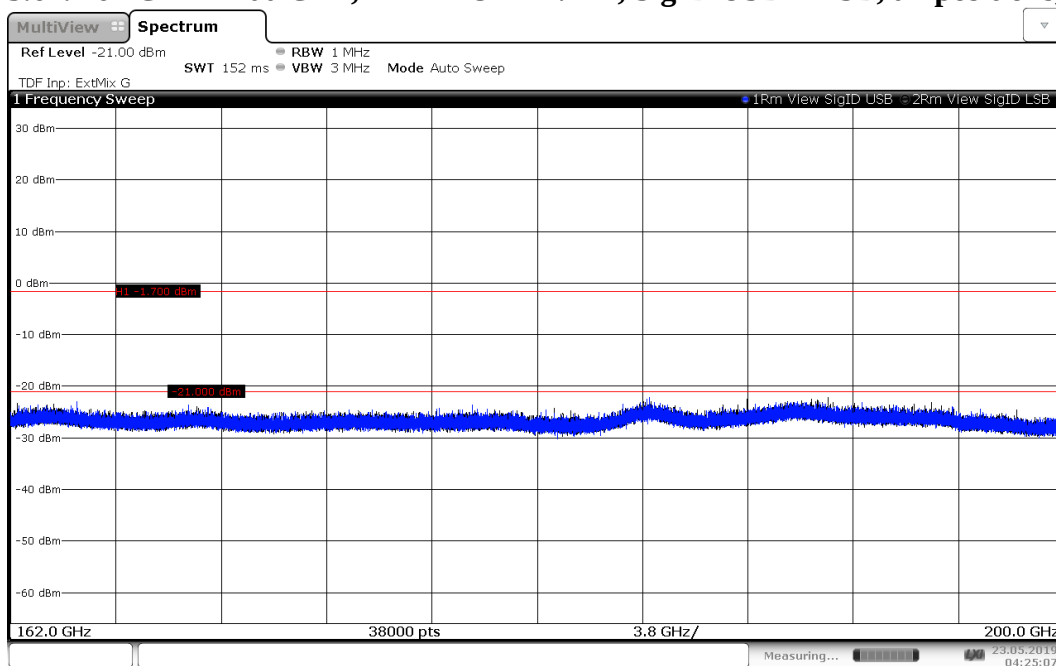
5.66. 154 GHz – 162 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



02:28:30 23.05.2019

* -20 dB is only a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

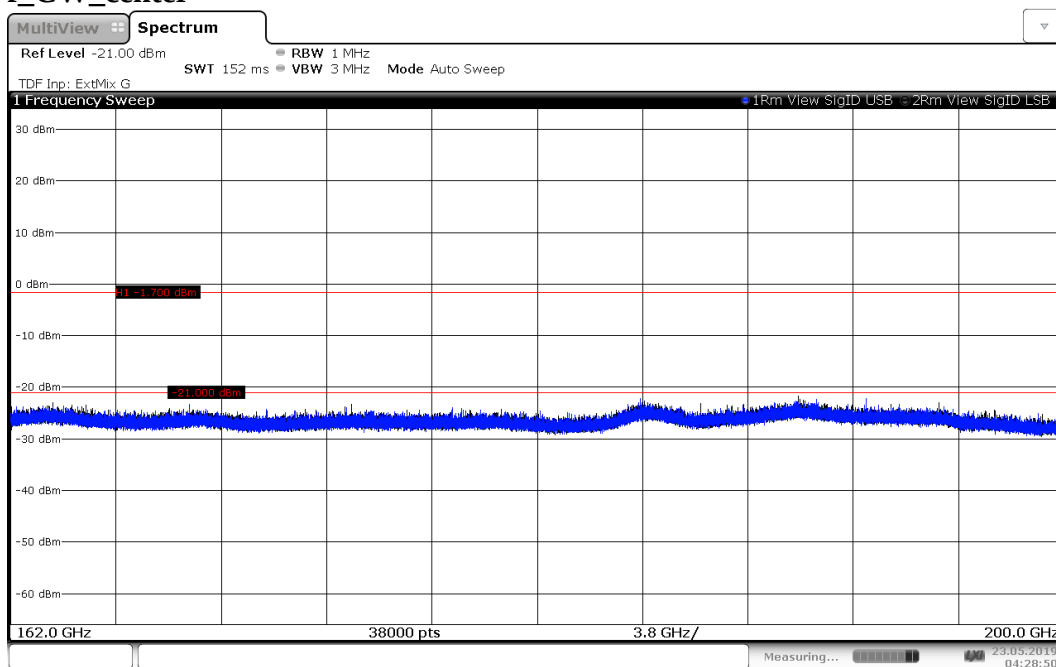
5.67. 162 GHz – 200 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



04:25:07 23.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm.

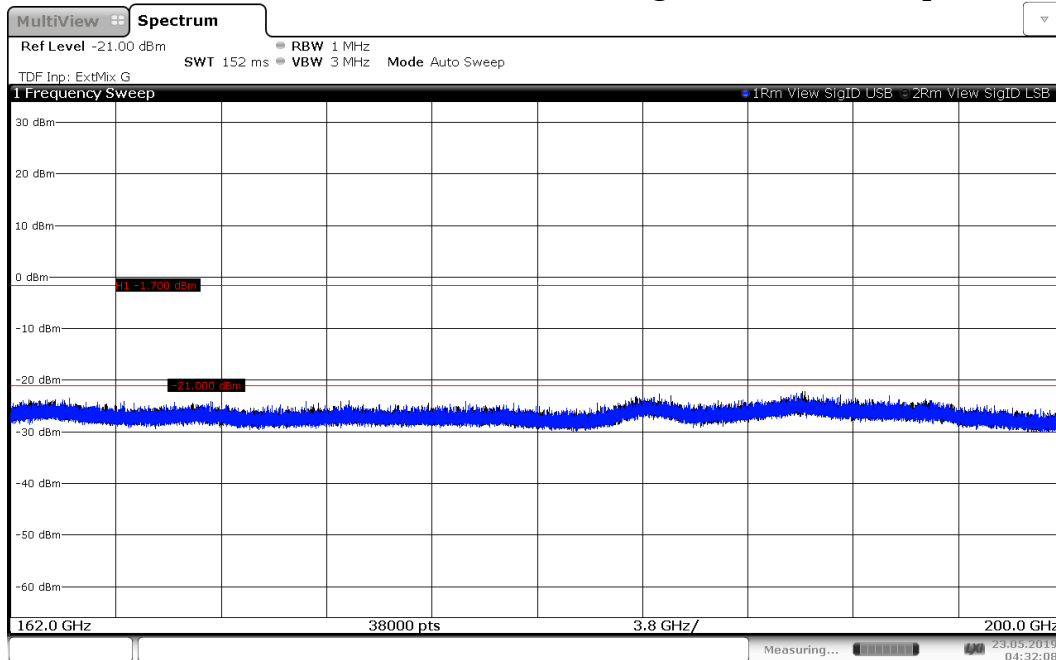
5.68. 162 GHz – 200 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



04:28:50 23.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm.

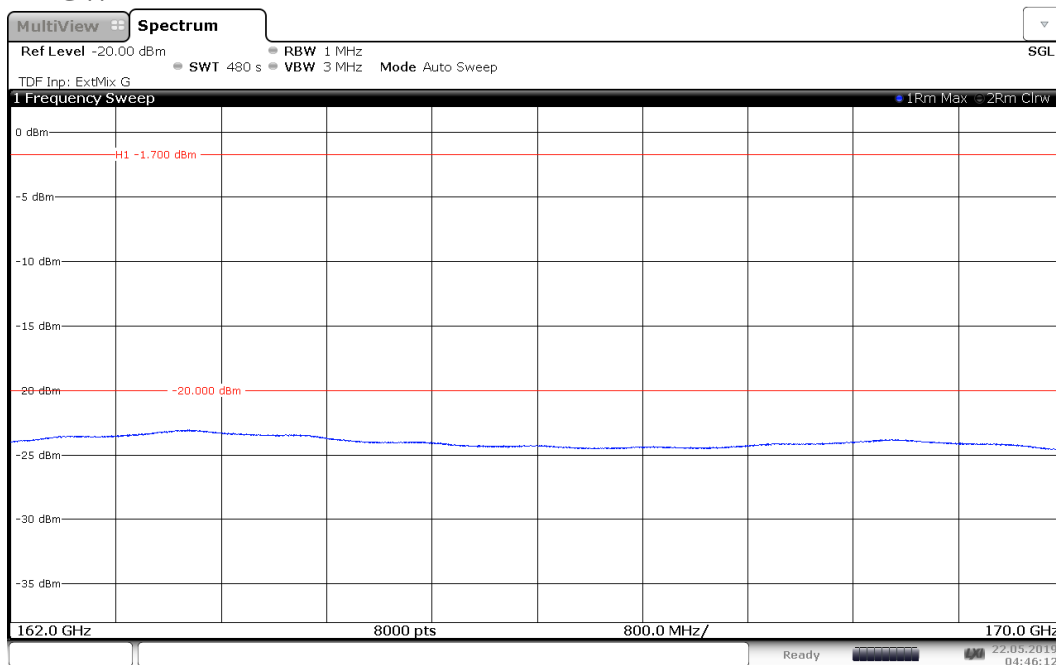
5.69. 162 GHz – 200 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



04:32:09 23.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is -1.7 dBm.

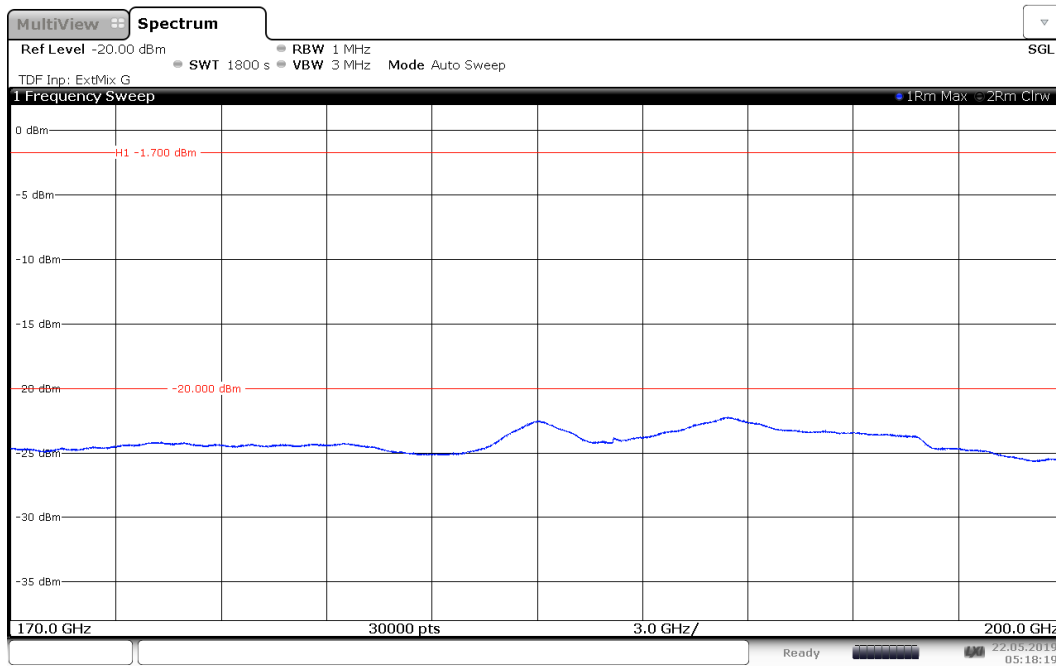
5.70. 162 GHz – 170 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



04:46:12 22.05.2019

* -20 dB is only a reference line from the FSW67. Limit is -1.7 dBm.

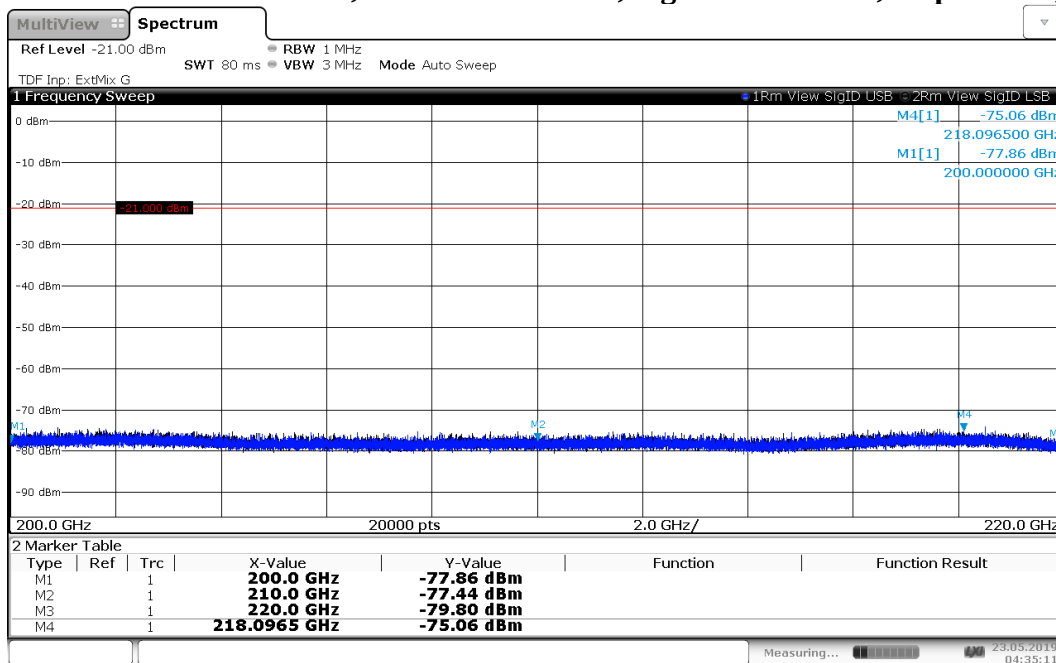
5.71. 170 GHz – 200 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



05:18:20 22.05.2019

* -20 dB is only a reference line from the FSW67. Limit is -1.7 dBm.

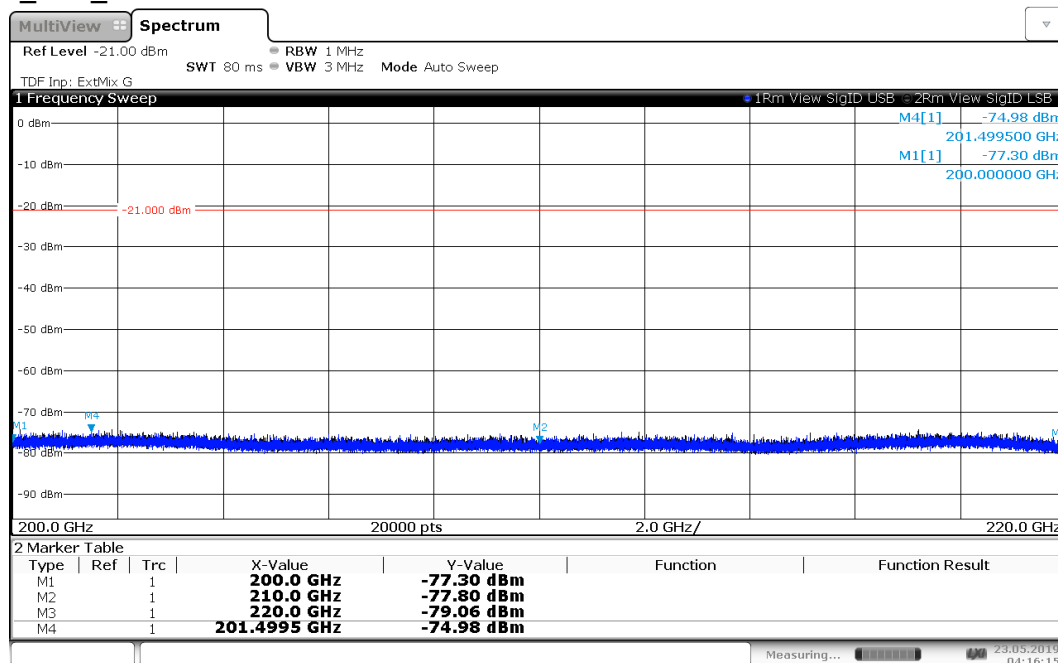
5.72. 200 GHz – 220 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



04:35:11 23.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

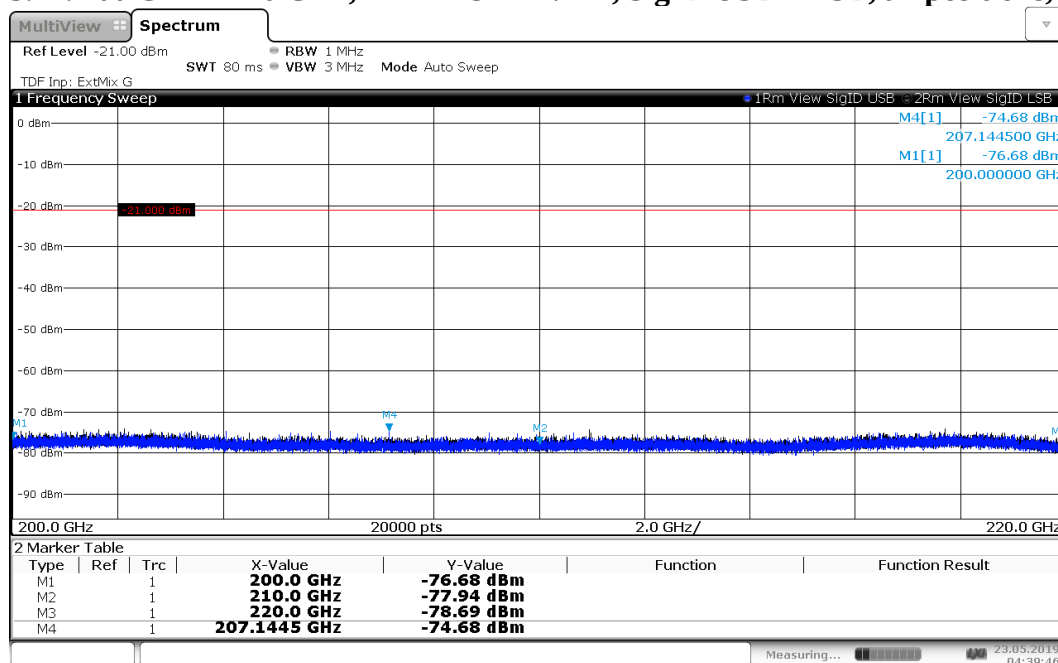
5.73. 200 GHz – 220 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



04:16:16 23.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

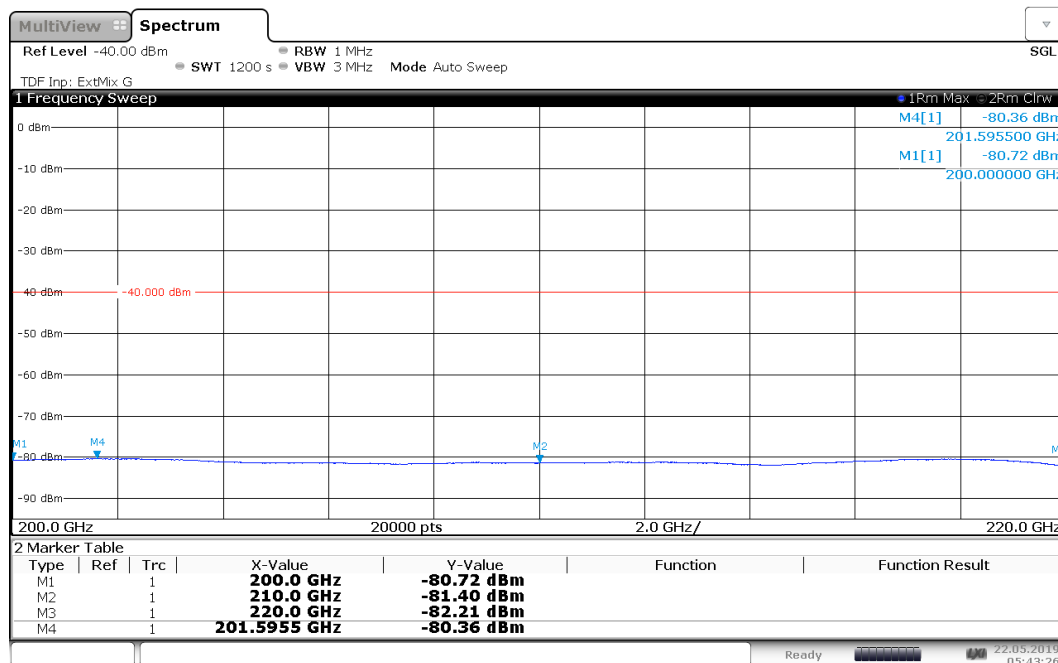
5.74. 200 GHz – 220 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



04:39:46 23.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

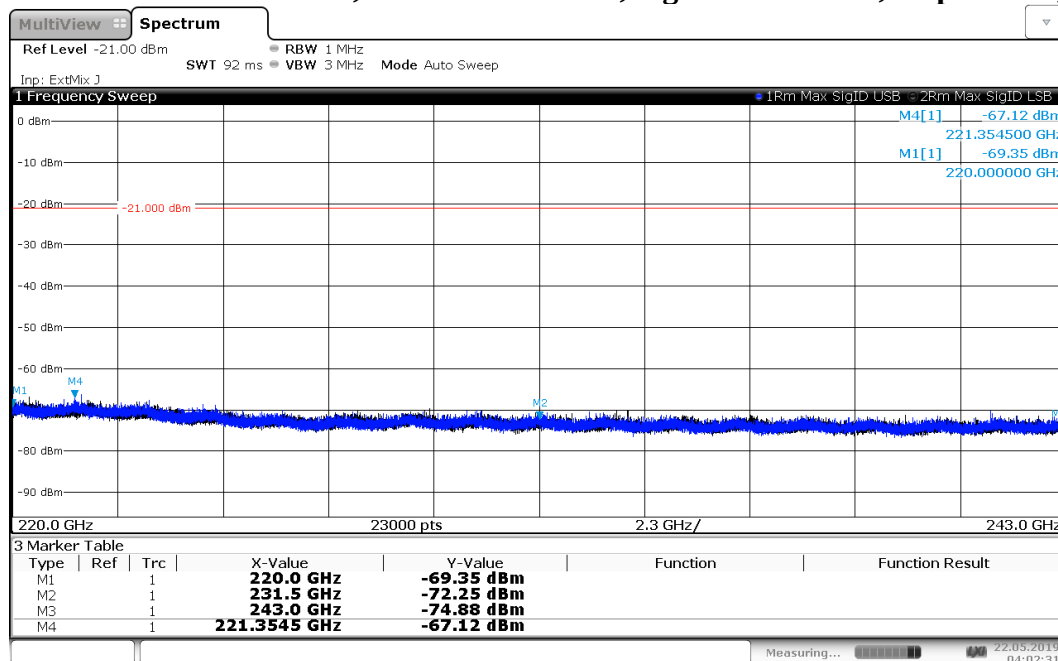
5.75. 200 GHz – 220 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



05:43:26 22.05.2019

* -40 dBm is only a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

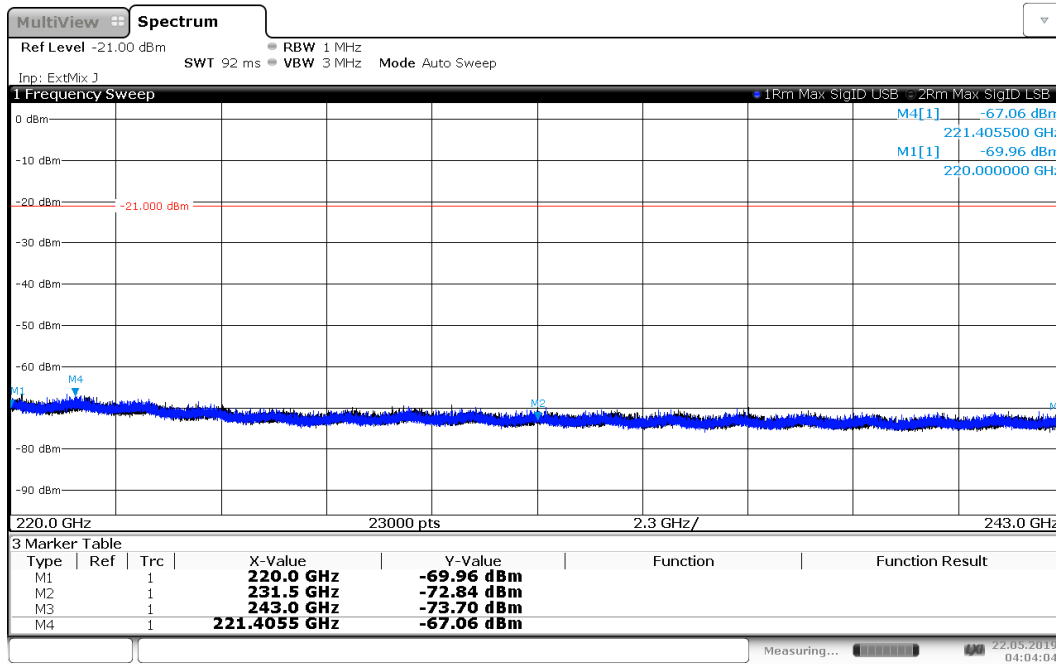
5.76. 220 GHz – 243 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



04:02:31 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

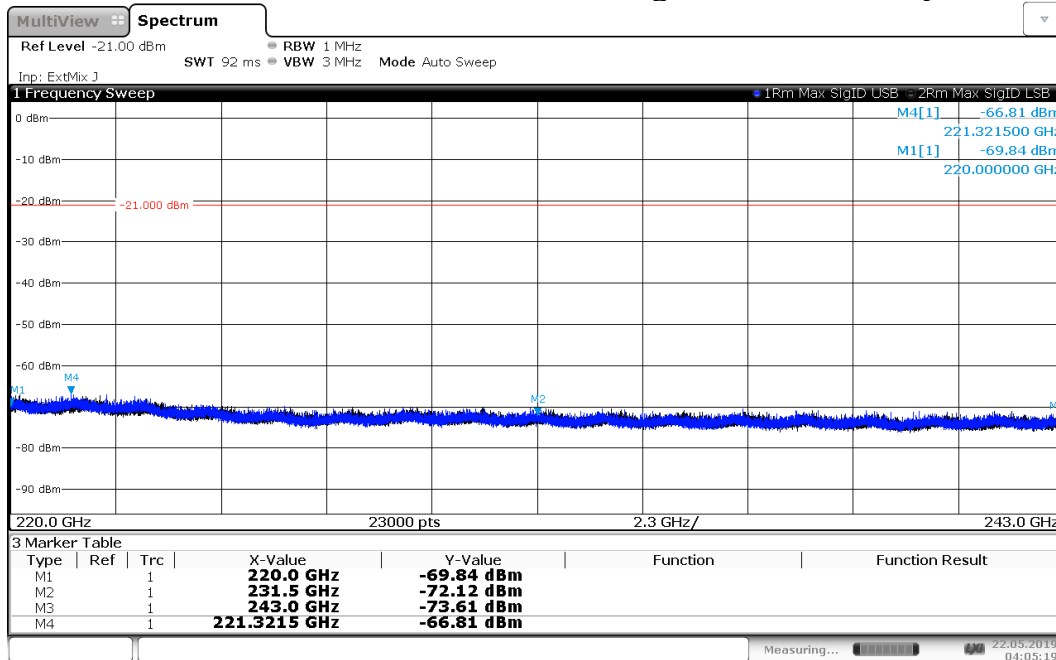
5.77. 220 GHz – 243 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



04:04:05 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

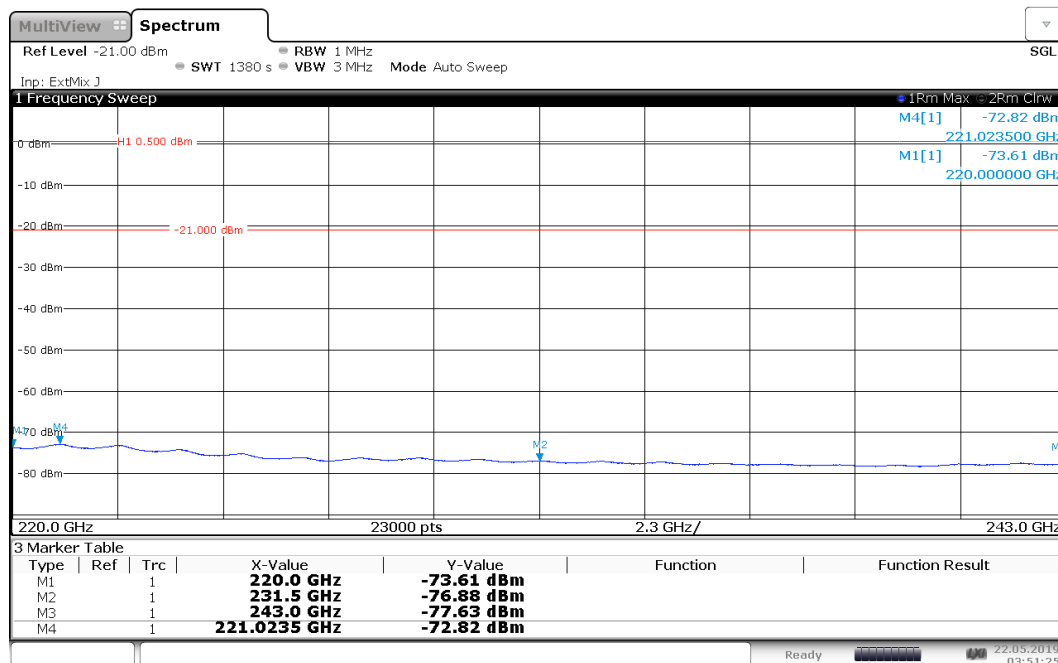
5.78. 220 GHz – 243 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



04:05:20 22.05.2019

* Signal ID function is used. The diagram shows image signals and mixer products. The real input signal is shown, only when USB and LSD traces have the same position on the frequency axis => Apart from the noise floor no real input signal was observed. See subsection 5.8.6. in the main report. -21 dBm is only a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

5.79. 220 GHz – 243 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW

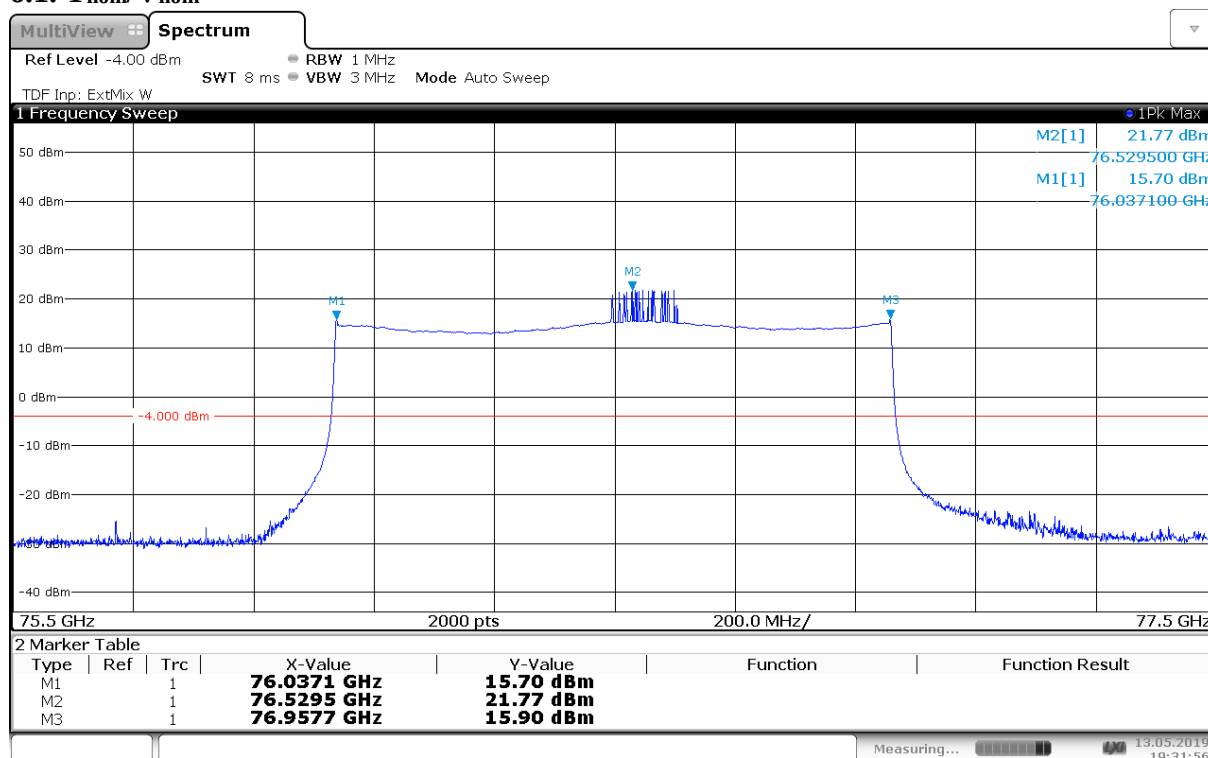


03:51:26 22.05.2019

* -21 dBm is only a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

6. Frequency stability

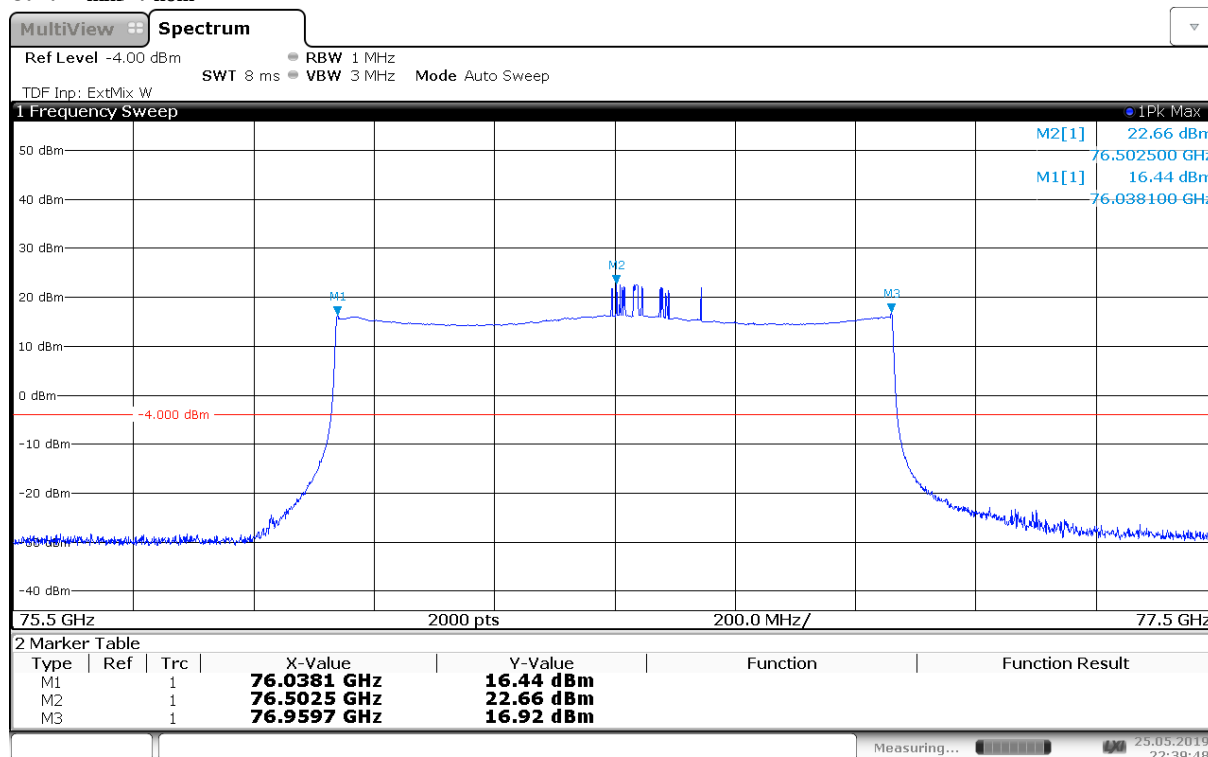
6.1. T_{nom}/V_{nom}



19:31:57 13.05.2019

* -4 dBm is only a reference line from the FSW67.

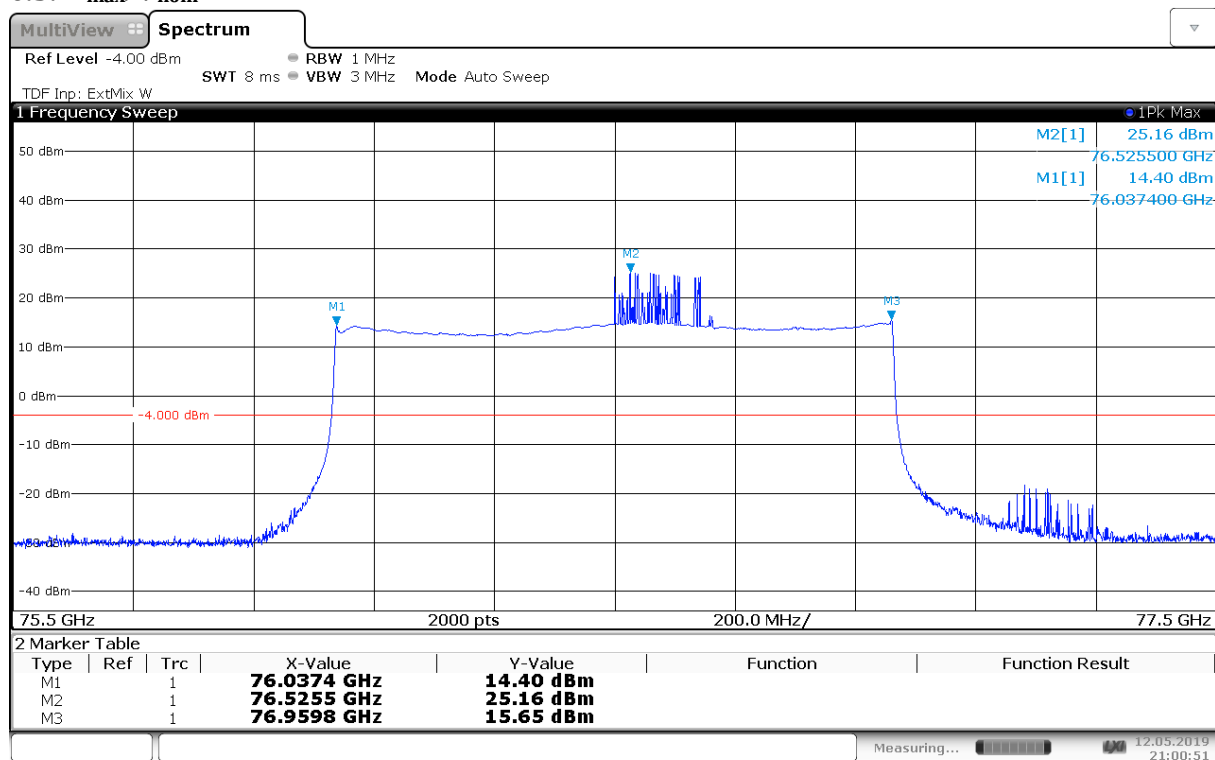
6.2. T_{min}/V_{nom}



22:39:49 25.05.2019

* -4 dBm is only a reference line from the FSW67.

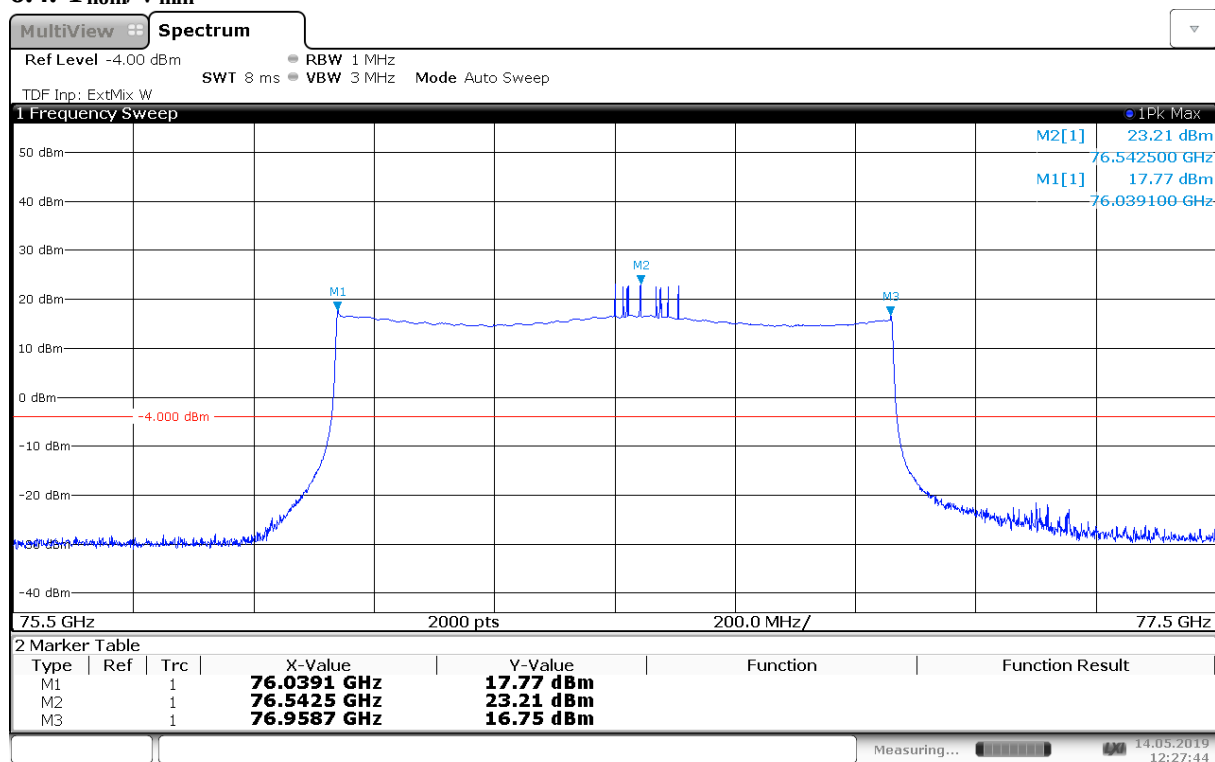
6.3. $T_{\max}/V_{\text{nom}}$



21:00:51 12.05.2019

* -4 dBm is only a reference line from the FSW67.

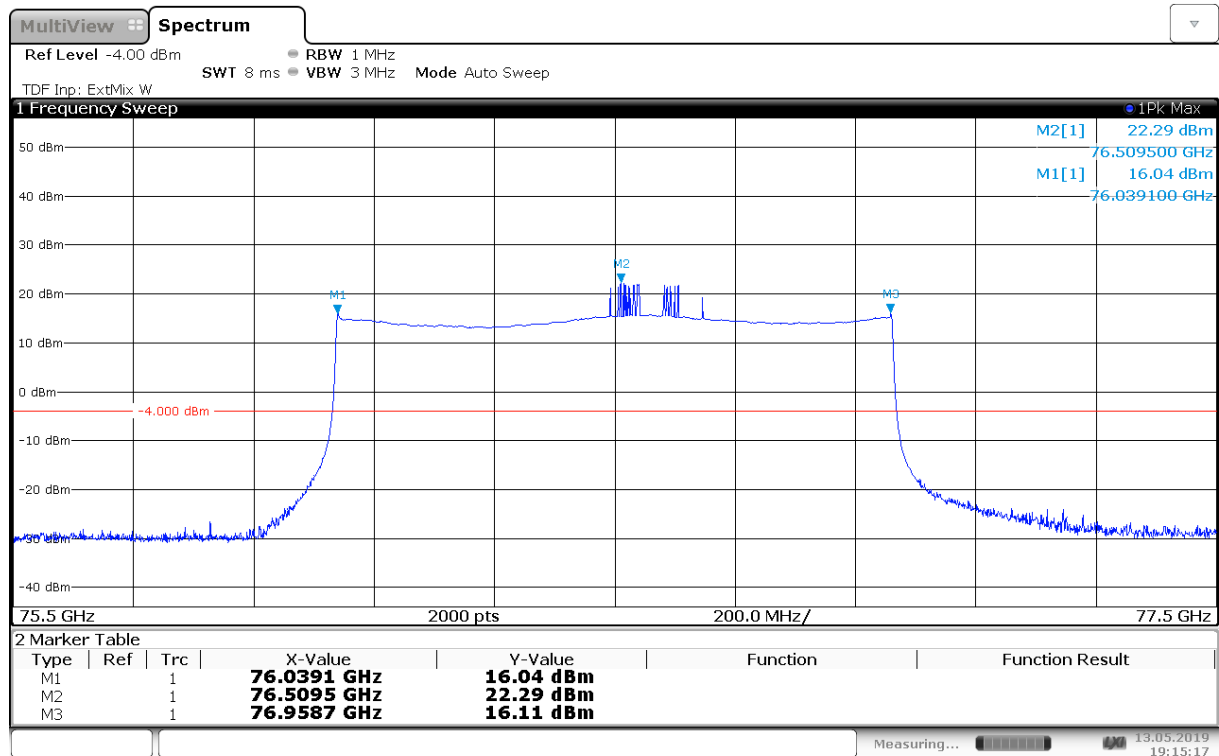
6.4. $T_{\text{nom}}/V_{\text{min}}$



12:27:44 14.05.2019

* -4 dBm is only a reference line from the FSW67.

6.5. T_{nom}/V_{max}



19:15:18 13.05.2019

* -4 dBm is only a reference line from the FSW67.