Annex 1: Measurement diagrams to
T E S T R E P O R T
No.: 18-1-0245401T05a

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

for

Veoneer US, Inc.

77V12FLR
77 GHz FLR Radar Sensor

FCC ID: WU877V12FLR
IC: 8436B-77V12FLR

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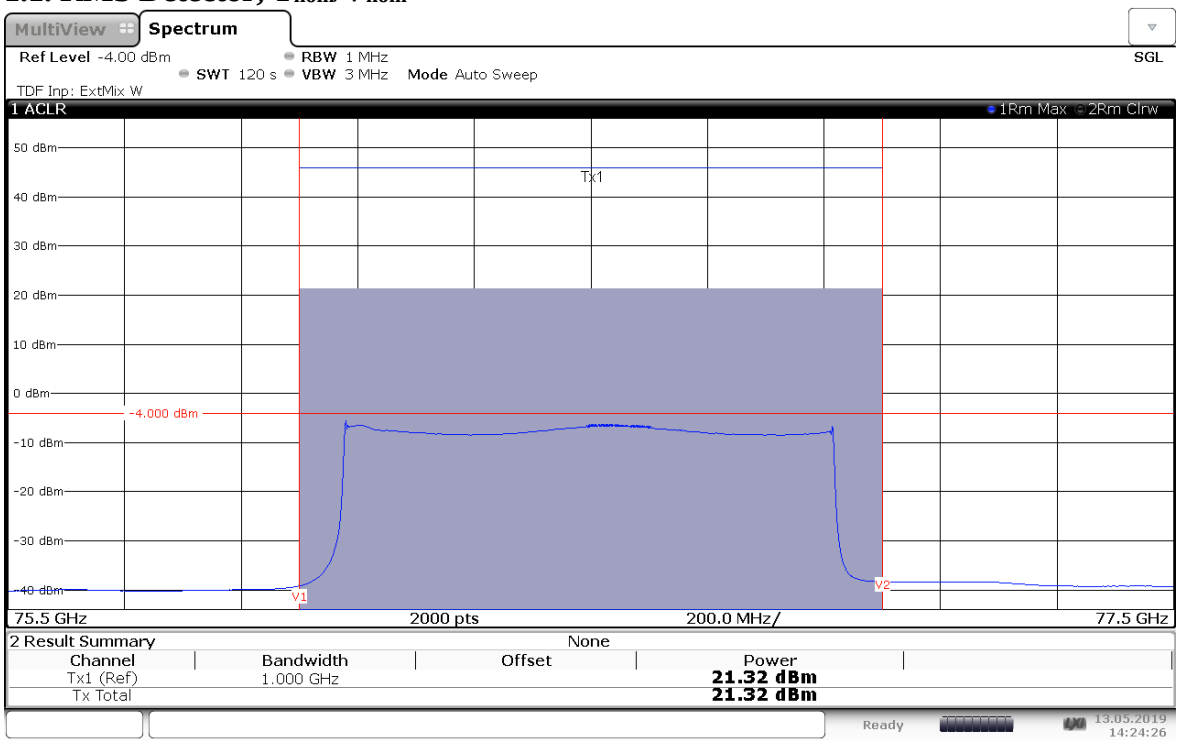
1. The maximum peak power EIRP / peak EIRP spectral density. The maximum power EIRP/ average EIRP.

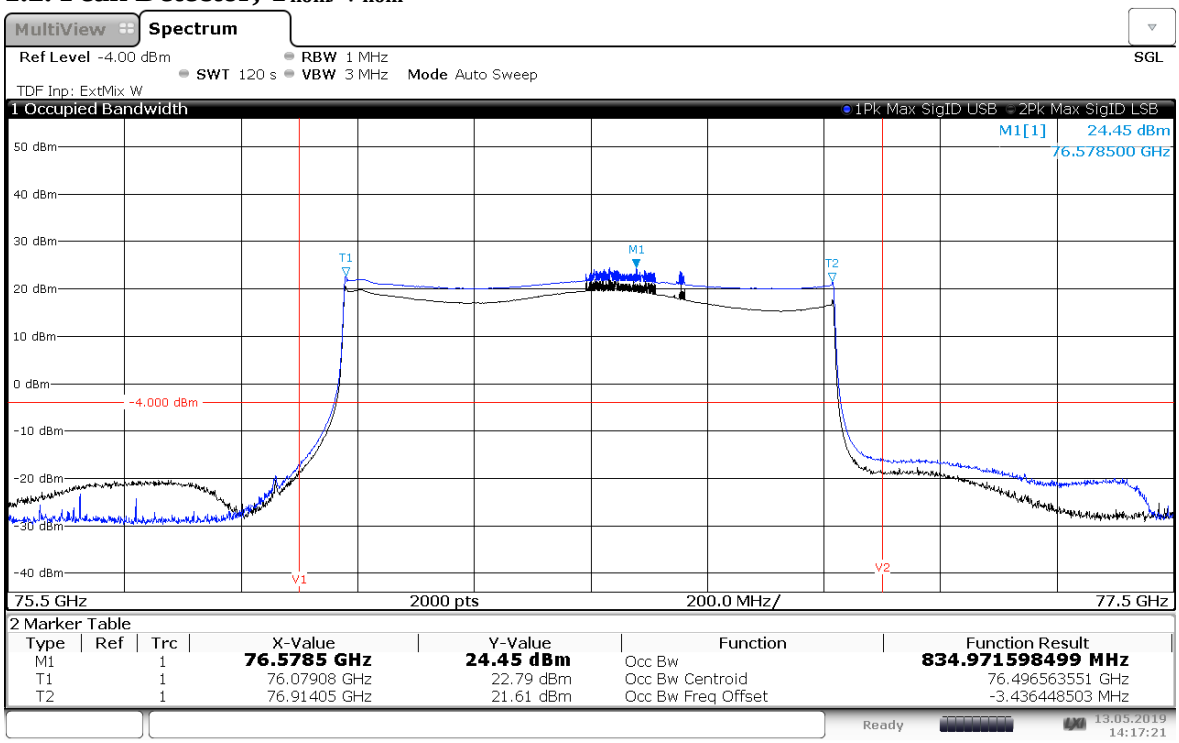
1.1. RMS Detector, T_{nom}/V_{nom}



14:24:27 13.05.2019

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

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



14:17:22 13.05.2019

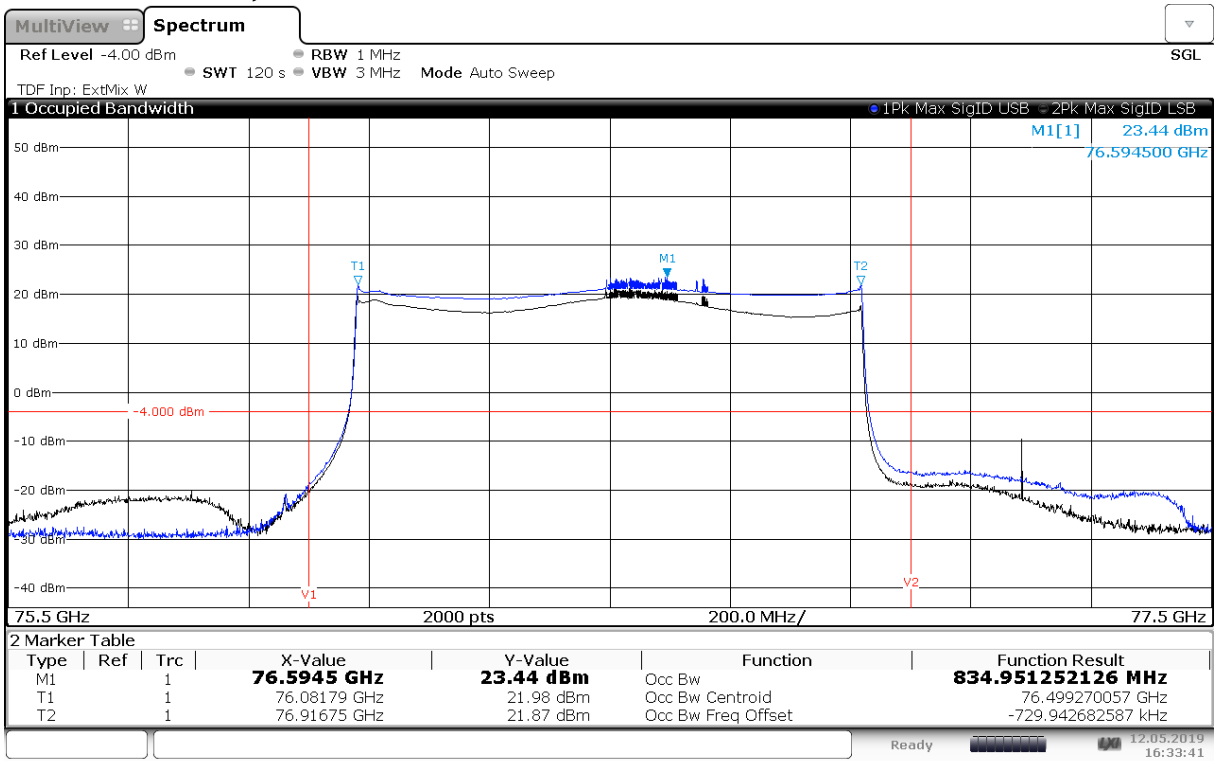
* -4 dBm is a reference line from the FSW67. Limit: 50 dBm (Average), 55 dBm (Peak).

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

16:29:24 12.05.2019

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

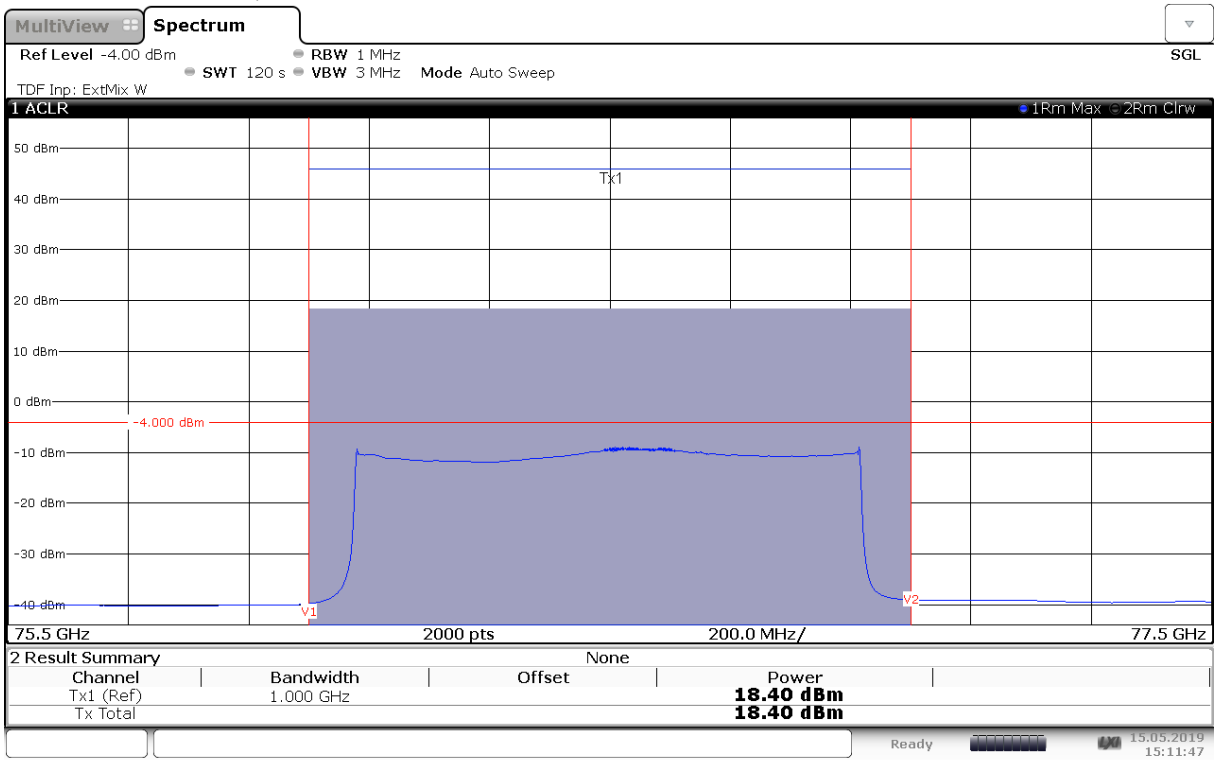
1.4. Peak Detector, T_{min}/V_{nom}



16:33:41 12.05.2019

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

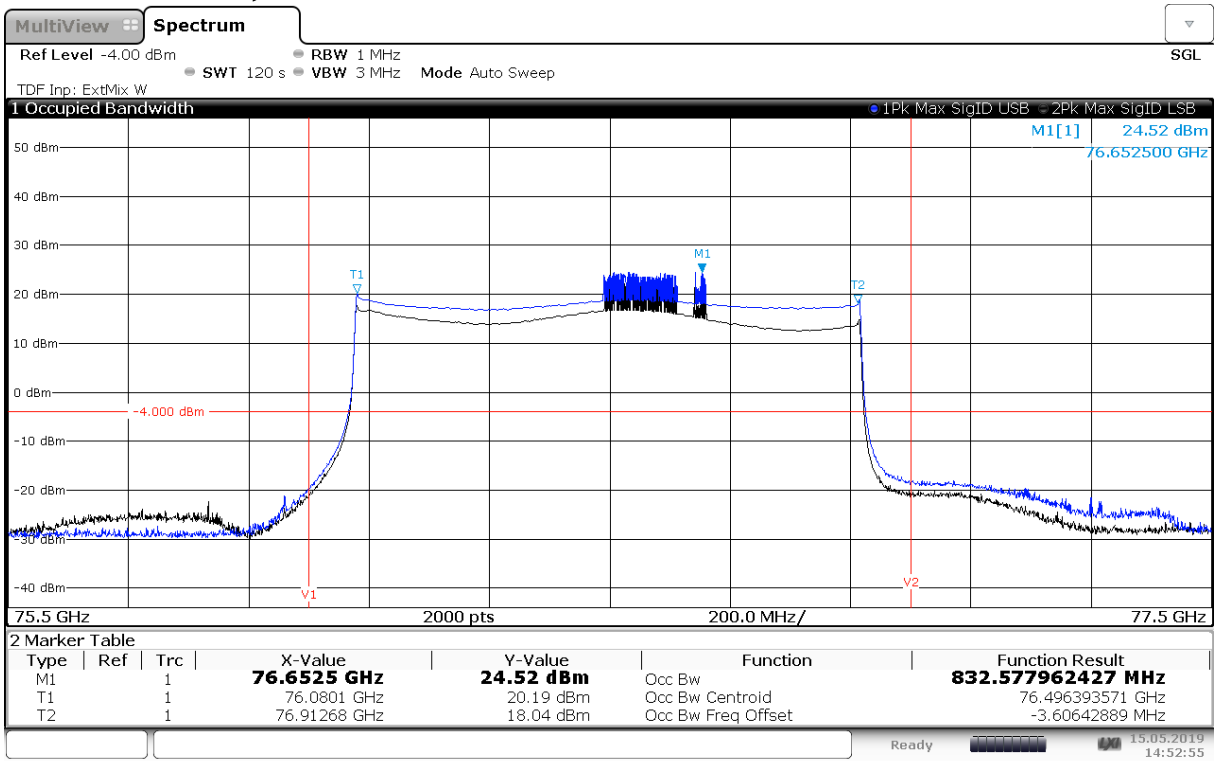
1.5. RMS Detector, T_{max}/V_{nom}



15:11:48 15.05.2019

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

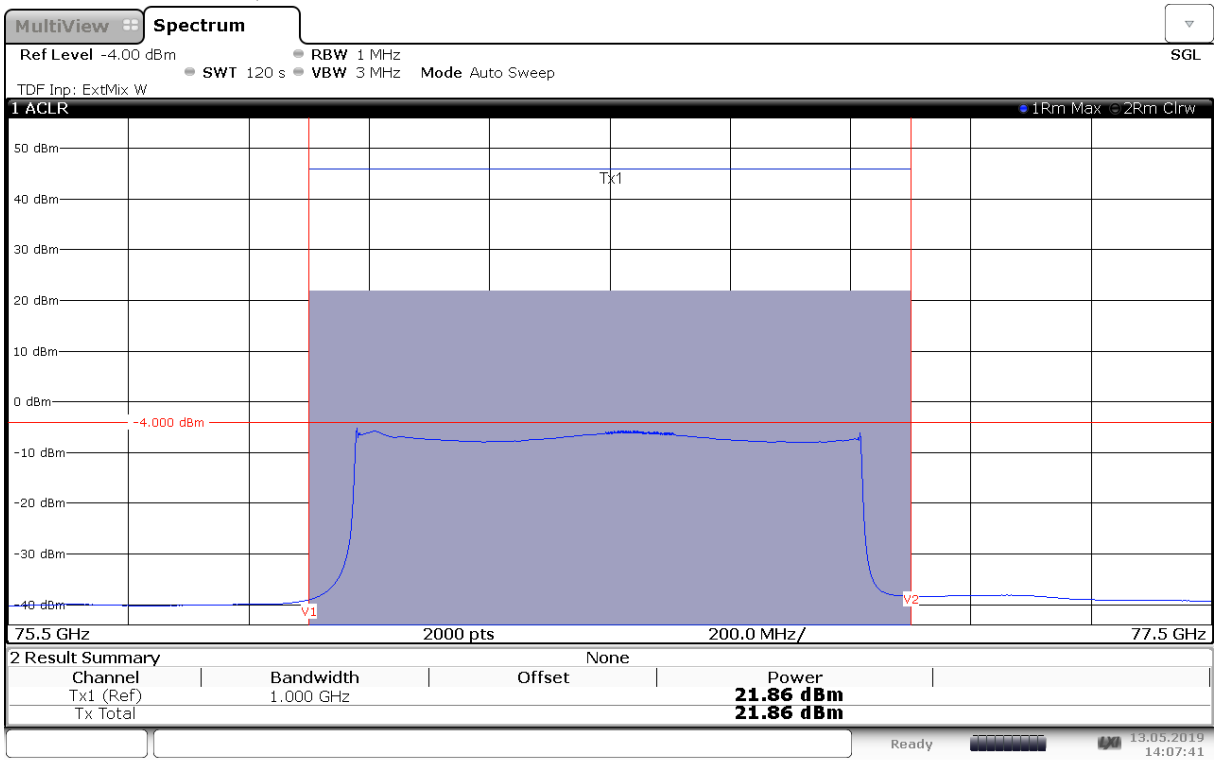
1.6. Peak Detector, T_{max}/V_{nom}



14:52:56 15.05.2019

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

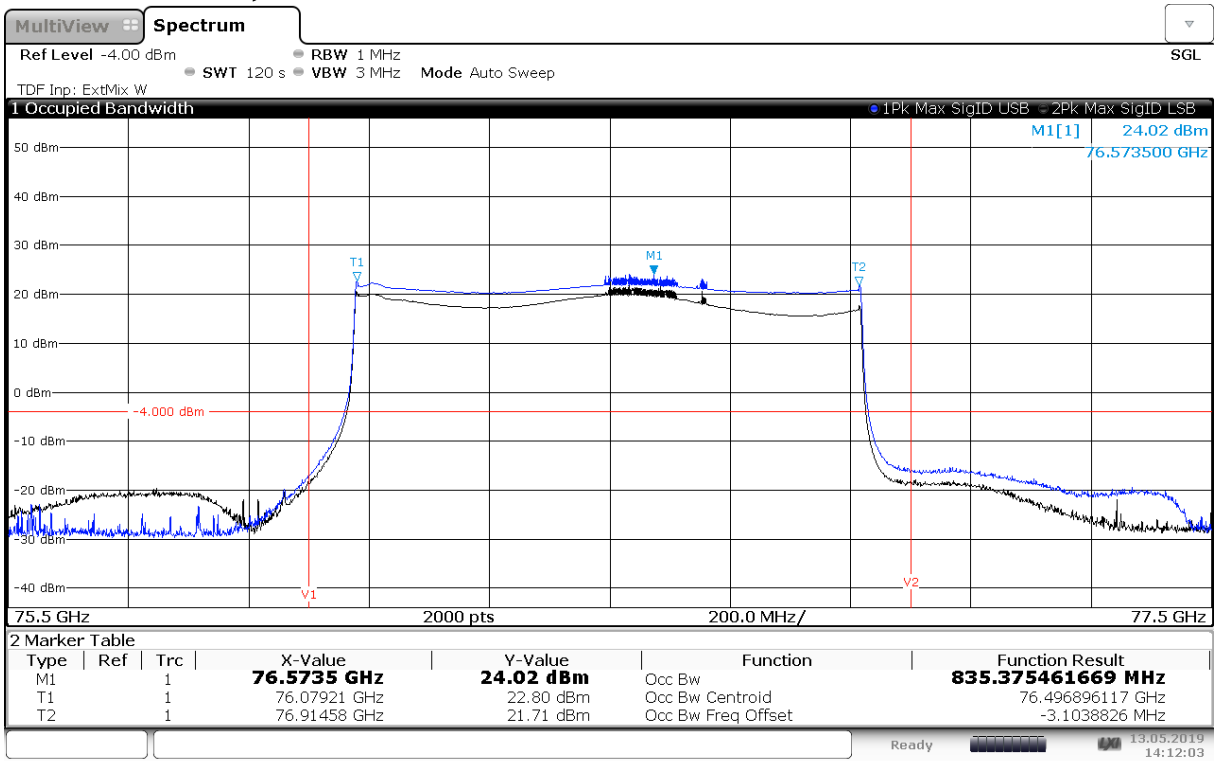
1.7. RMS Detector, T_{nom}/V_{min}



14:07:41 13.05.2019

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

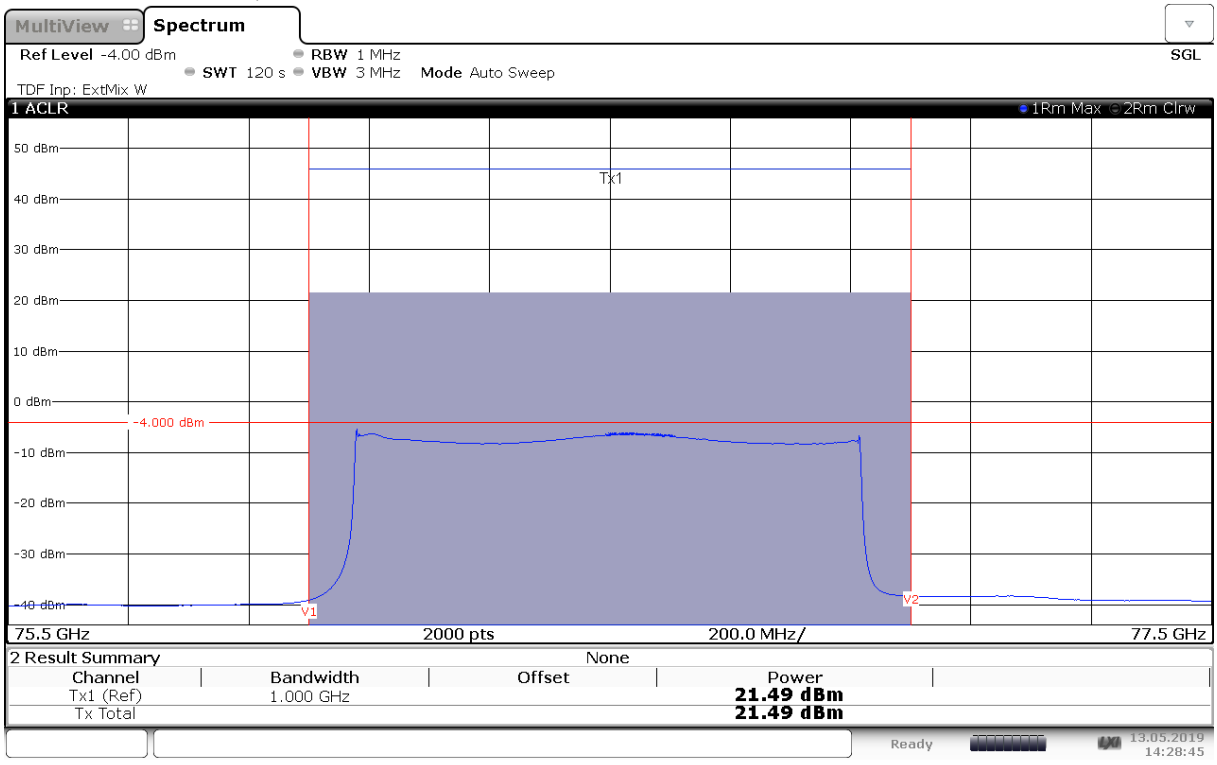
1.8. Peak Detector, T_{nom}/V_{min}



14:12:04 13.05.2019

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

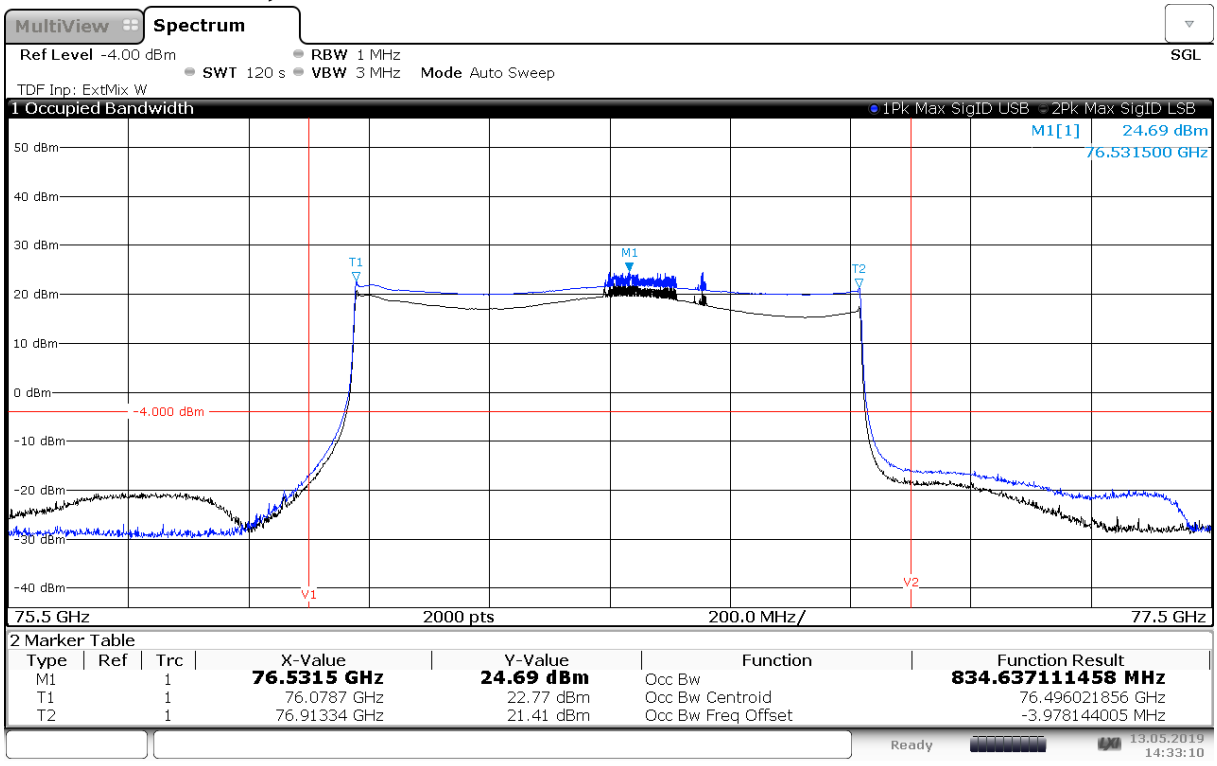
1.9. RMS Detector, T_{nom}/V_{max}



14:28:45 13.05.2019

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

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



14:33:10 13.05.2019

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

2. Modulation characteristics

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

See diagram 1.2

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

See diagram 1.4

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

See diagram 1.6

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

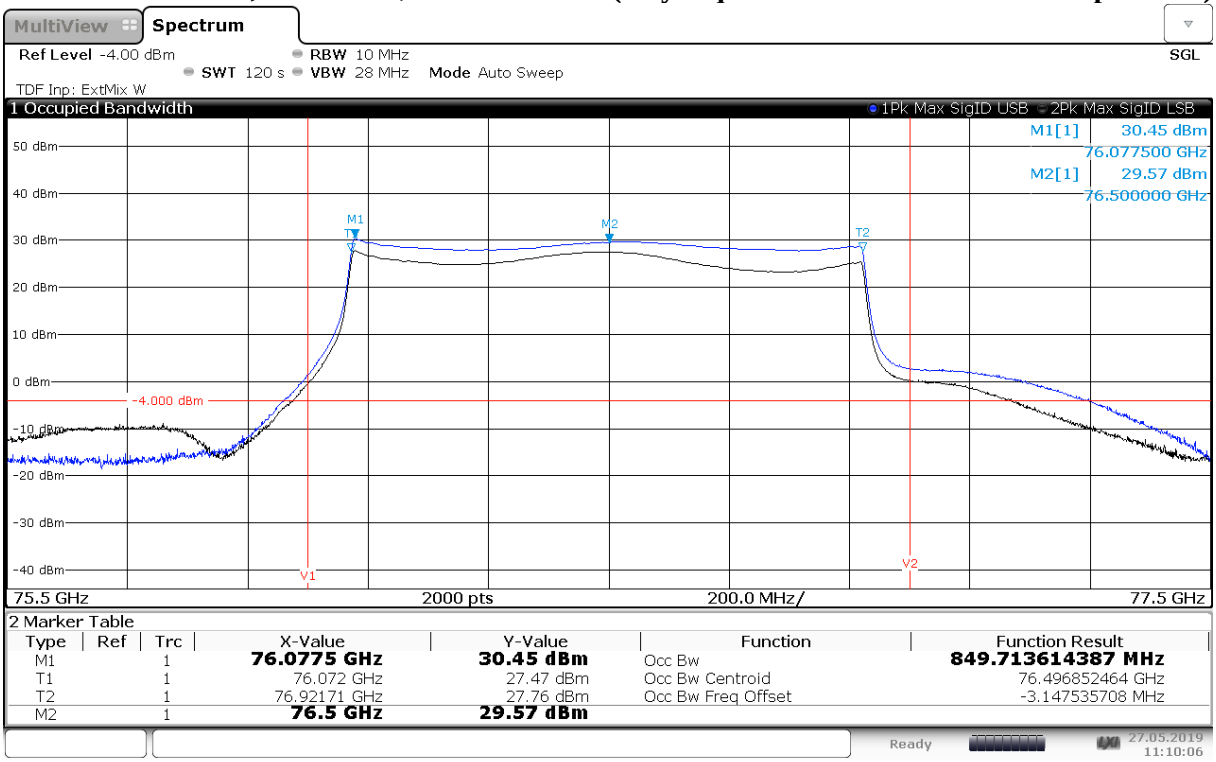
See diagram 1.8

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

See diagram 1.10

3. Occupied bandwidth

3.1. Peak Detector, T_{nom}/V_{nom}, RBW 10 MHz (only required for 99% RSS Gen Occupied BW)



11:10:07 27.05.2019

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

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

See diagram 1.2

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

See diagram 1.4

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

See diagram 1.6

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

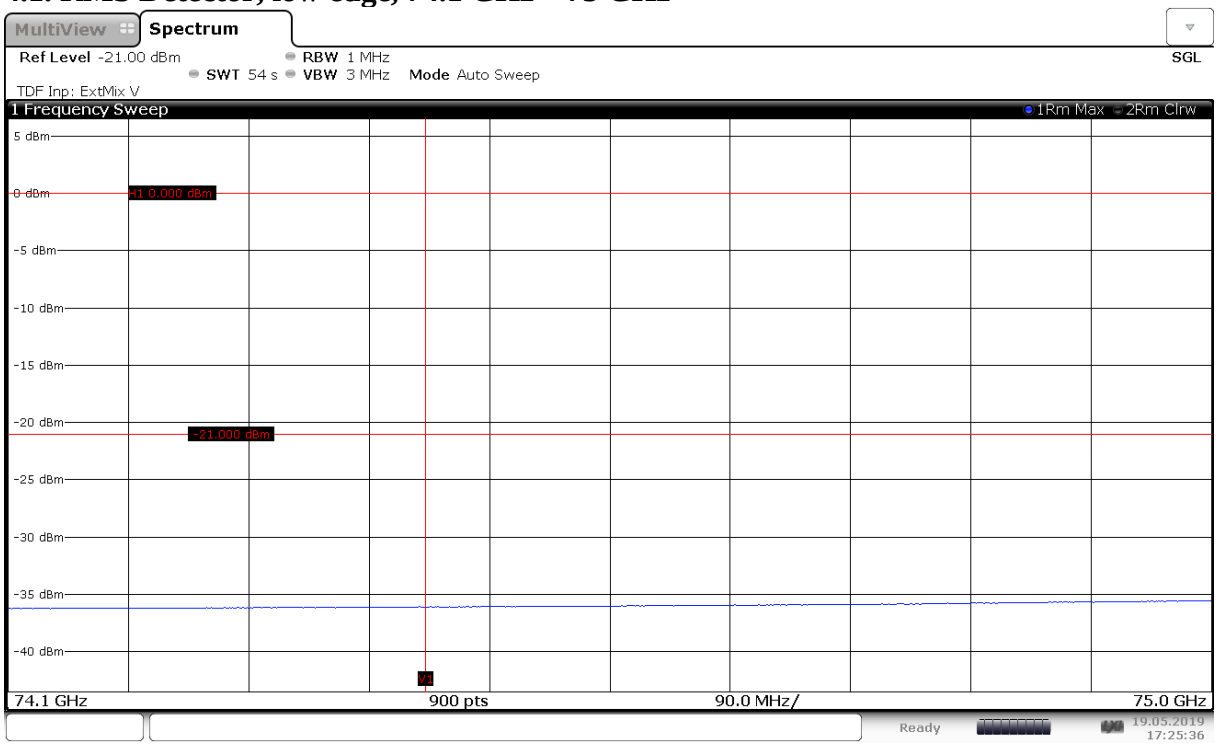
See diagram 1.8

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

See diagram 1.10

4. Field strength of emissions (band edge)

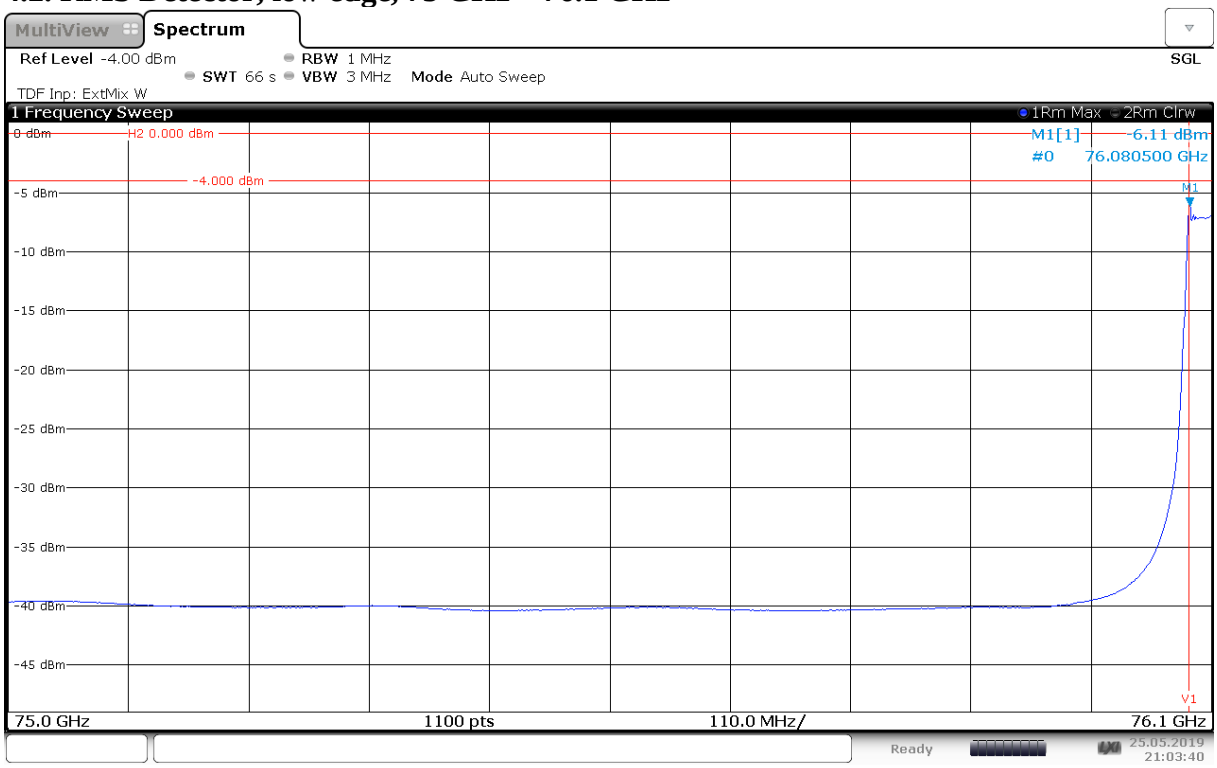
4.1. RMS Detector, low edge, 74.1 GHz – 75 GHz



17:25:37 19.05.2019

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

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



21:03:40 25.05.2019

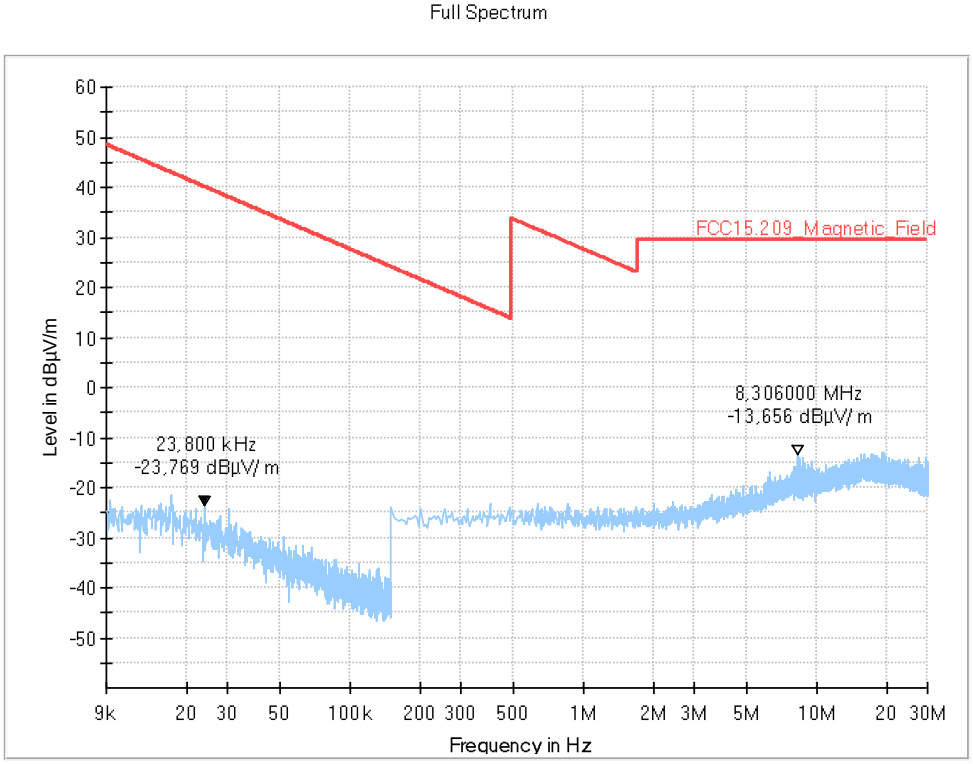
* -4 dBm is a reference line from the FSW67. Limit is 0 dBm.

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

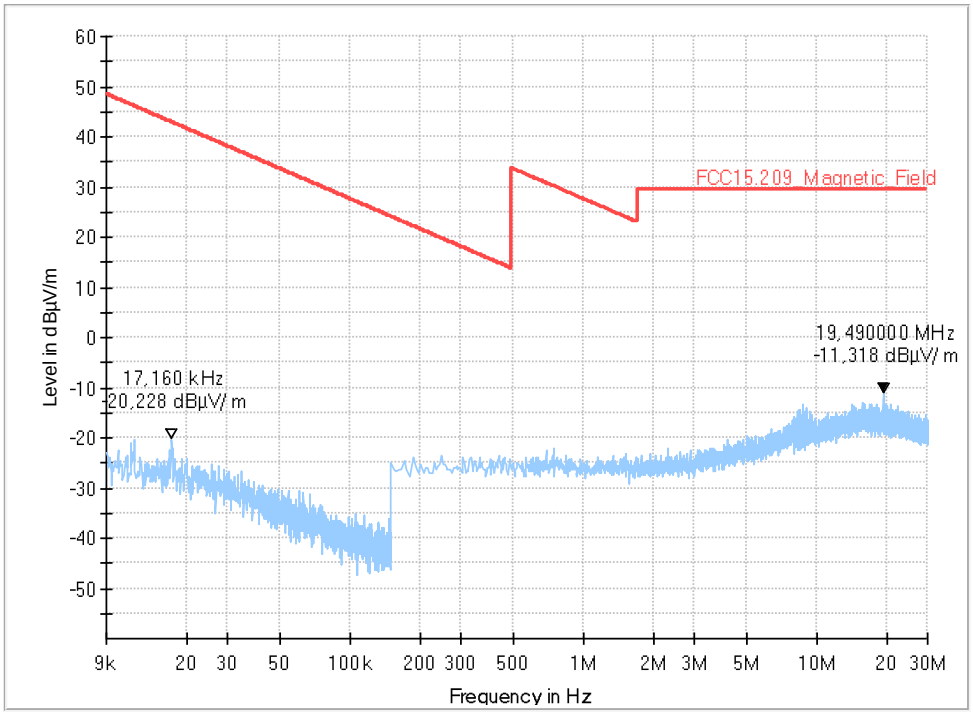
No emissions above 77 GHz respectively 81 GHz. See diagrams in from section 5.36. 77 GHz – 78.5 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW to 5.38. 79.5 GHz – 81 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW.
* Limit is 0 dBm.

5. Field strength of emissions (radiated spurious)

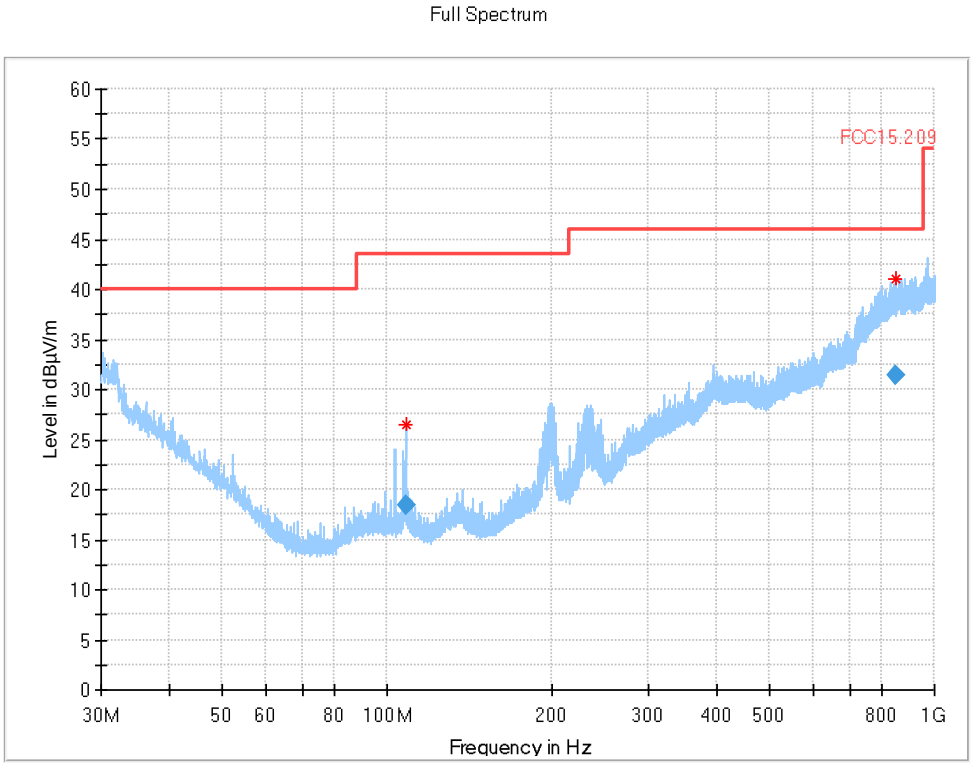
5.1. 9 kHz – 30 MHz, laying, valid for f_CW_low + f_CW_center + f_CW_high



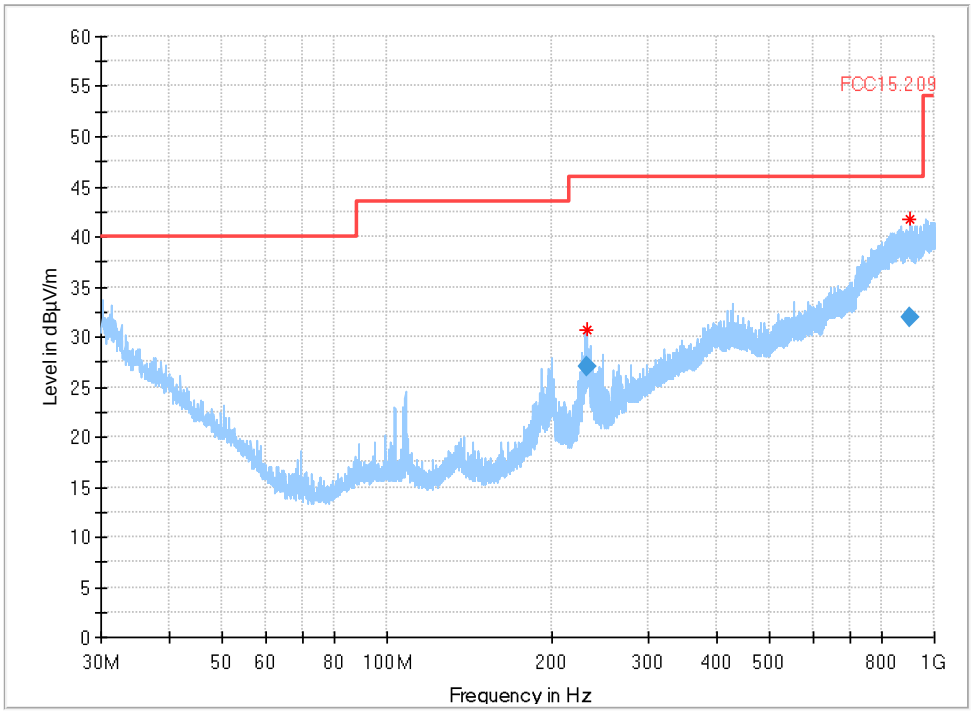
5.2. 9 kHz – 30 MHz, standing, valid for f_CW_low + f_CW_center + f_CW_high



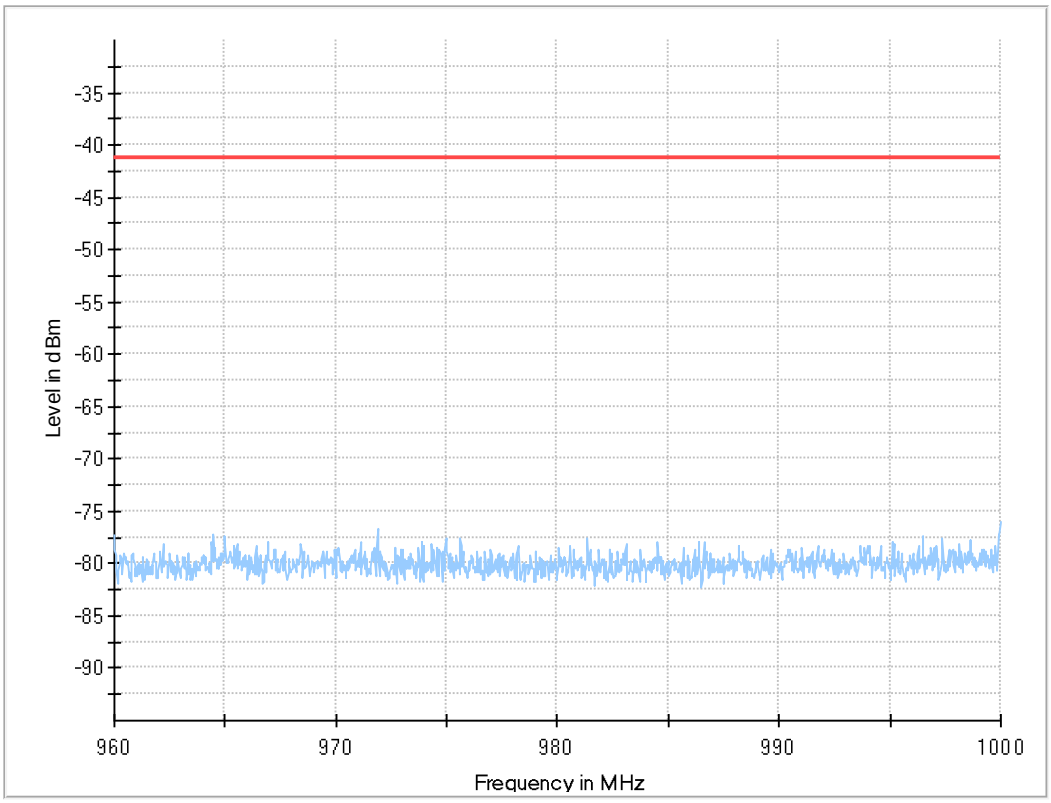
5.3. 30 MHz – 1 GHz, laying, valid for f_CW_low + f_CW_center + f_CW_high



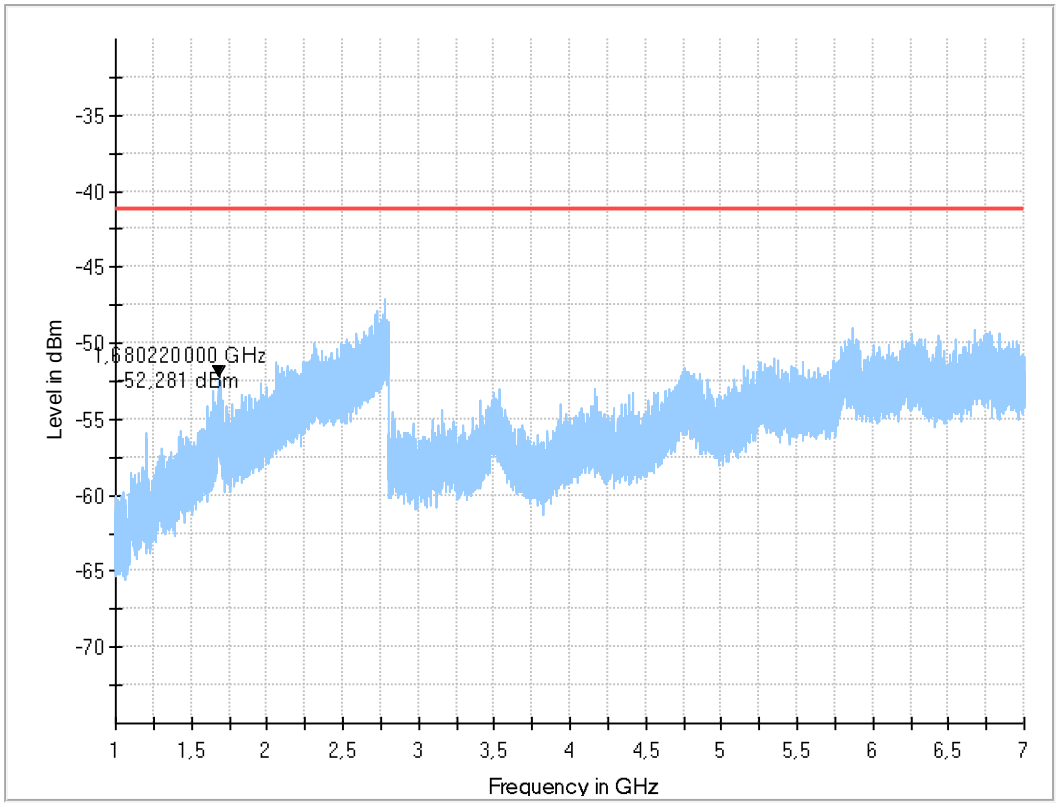
5.4. 30 MHz – 1 GHz, standing, valid for f_CW_low + f_CW_center + f_CW_high



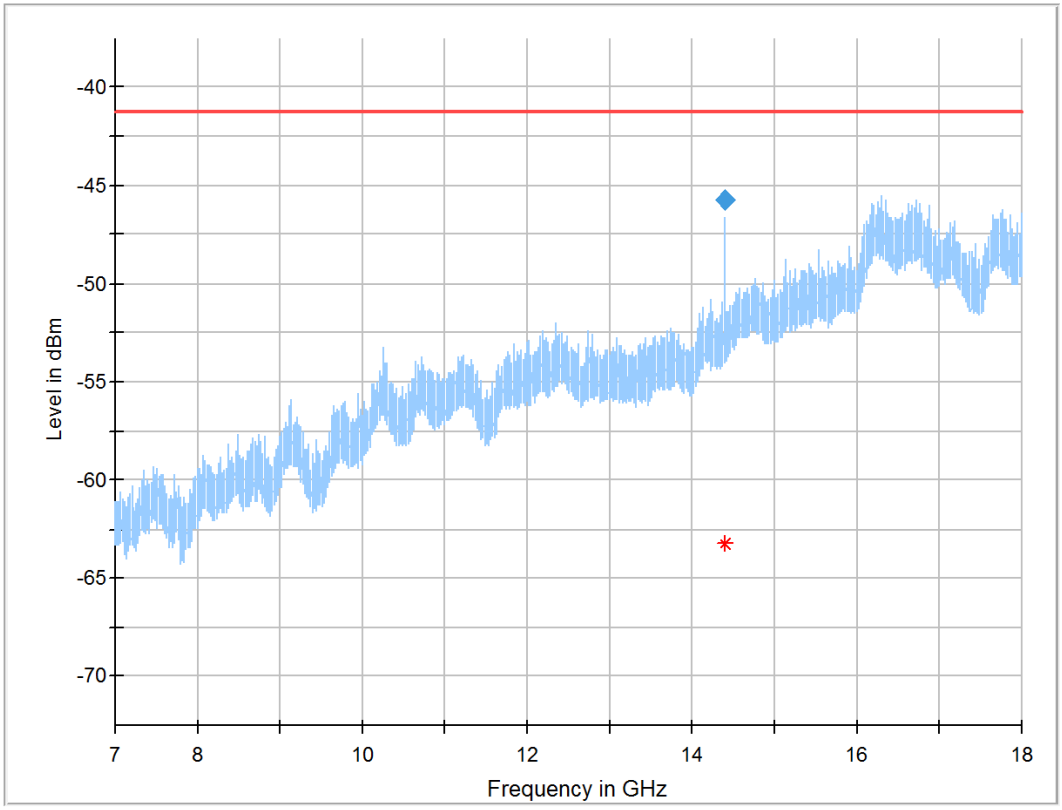
5.5. 960 MHz – 1 GHz, valid for f_CW_low + f_CW_center + f_CW_high



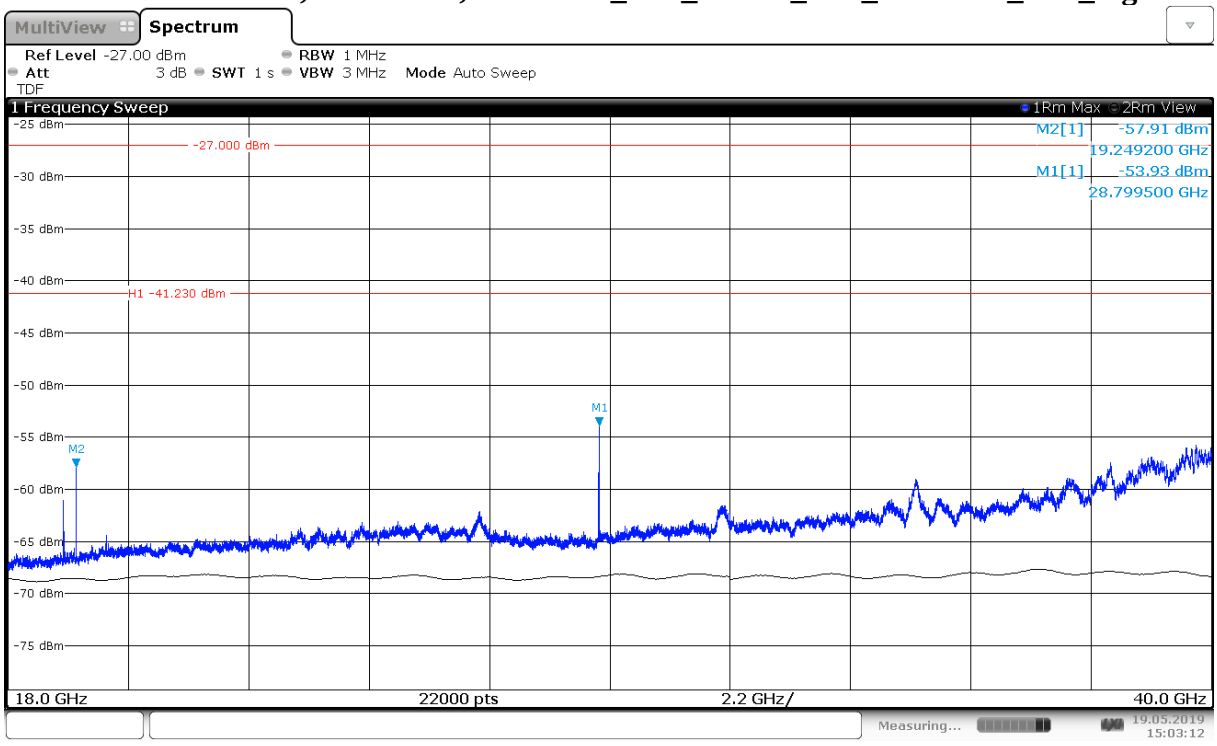
5.6. 1 GHz – 7 GHz, valid for f_CW_low + f_CW_center + f_CW_high



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



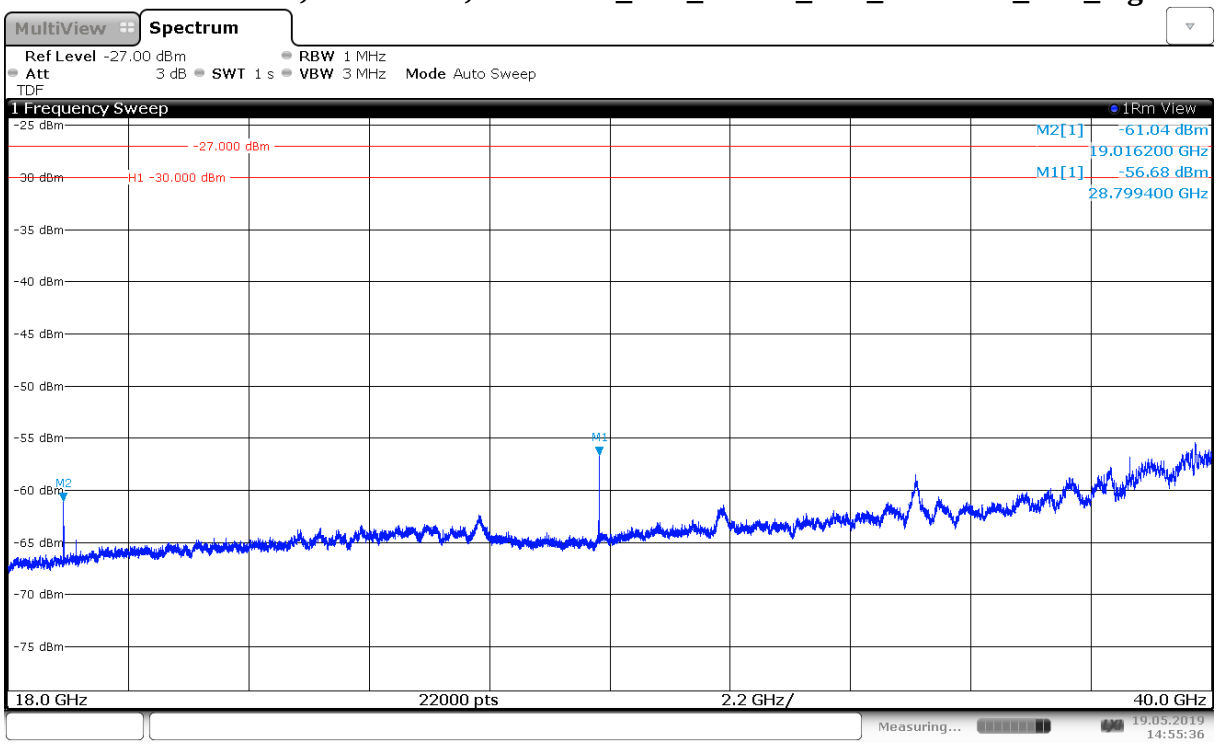
5.8. 18 GHz – 40 GHz, ANT VER, valid for f_CW_low + f_CW_center + f_CW_high



15:03:12 19.05.2019

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

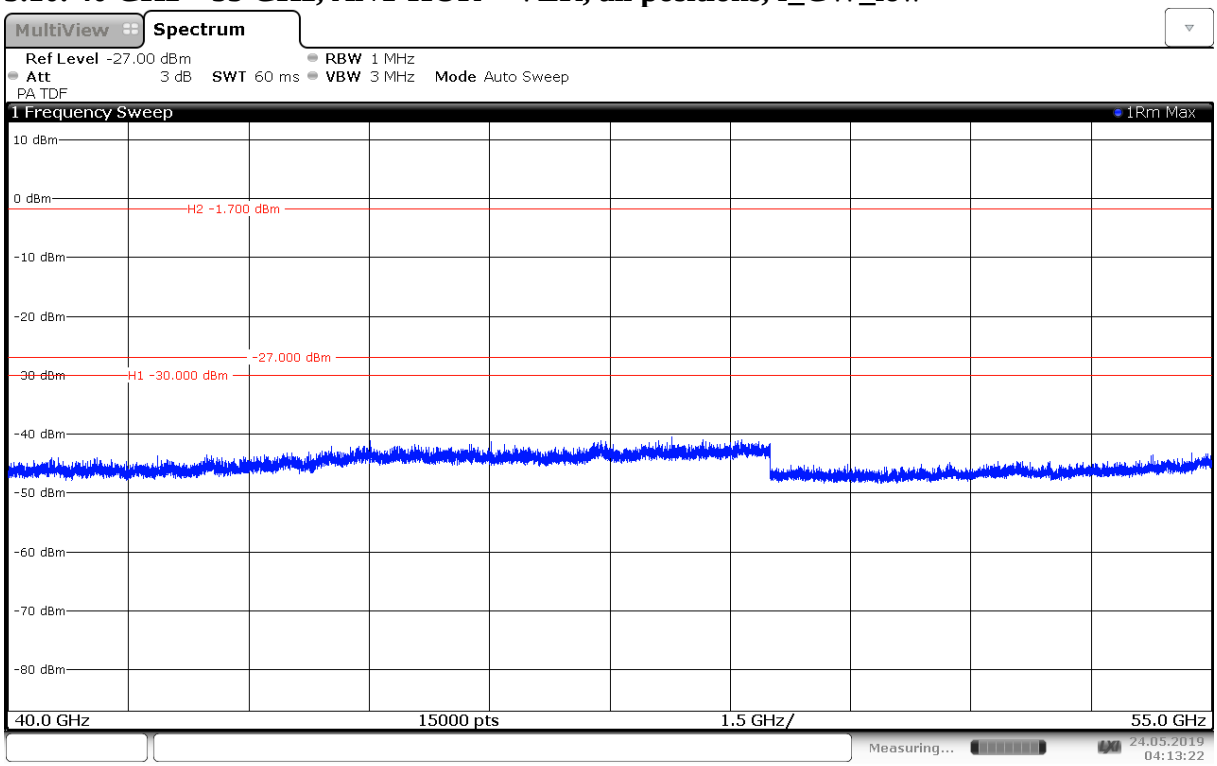
5.9. 18 GHz – 40 GHz, ANT HOR, valid for f_CW_low + f_CW_center + f_CW_high



14:55:36 19.05.2019

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

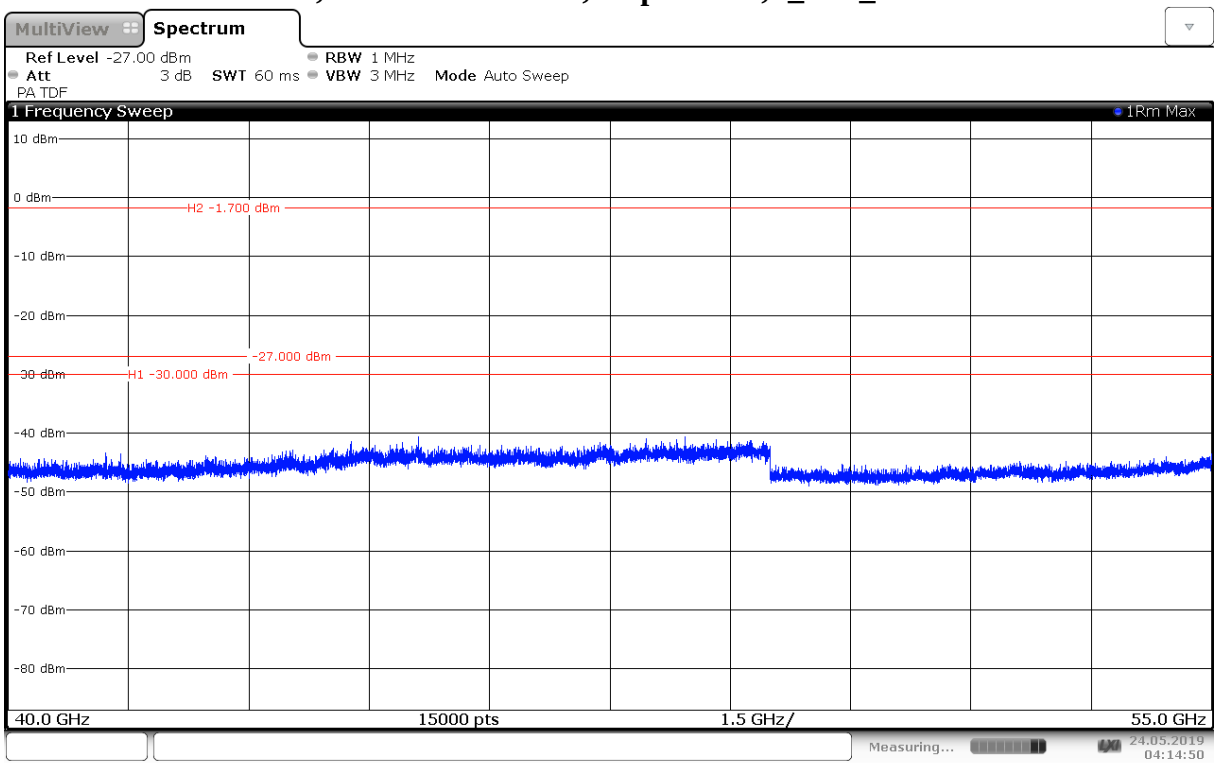
5.10. 40 GHz – 55 GHz, ANT HOR + VER, all positions, f_CW_low



04:13:22 24.05.2019

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

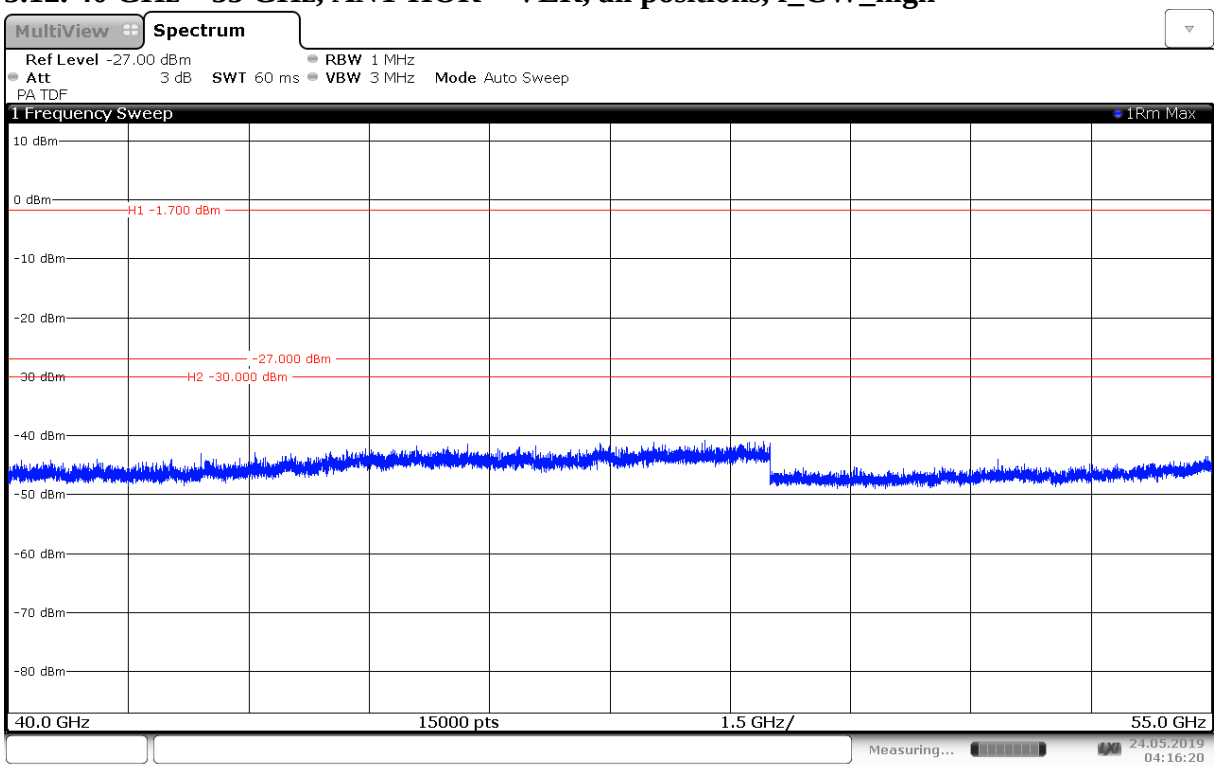
5.11. 40 GHz – 55 GHz, ANT HOR + VER, all positions, f_CW_center



04:14:50 24.05.2019

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

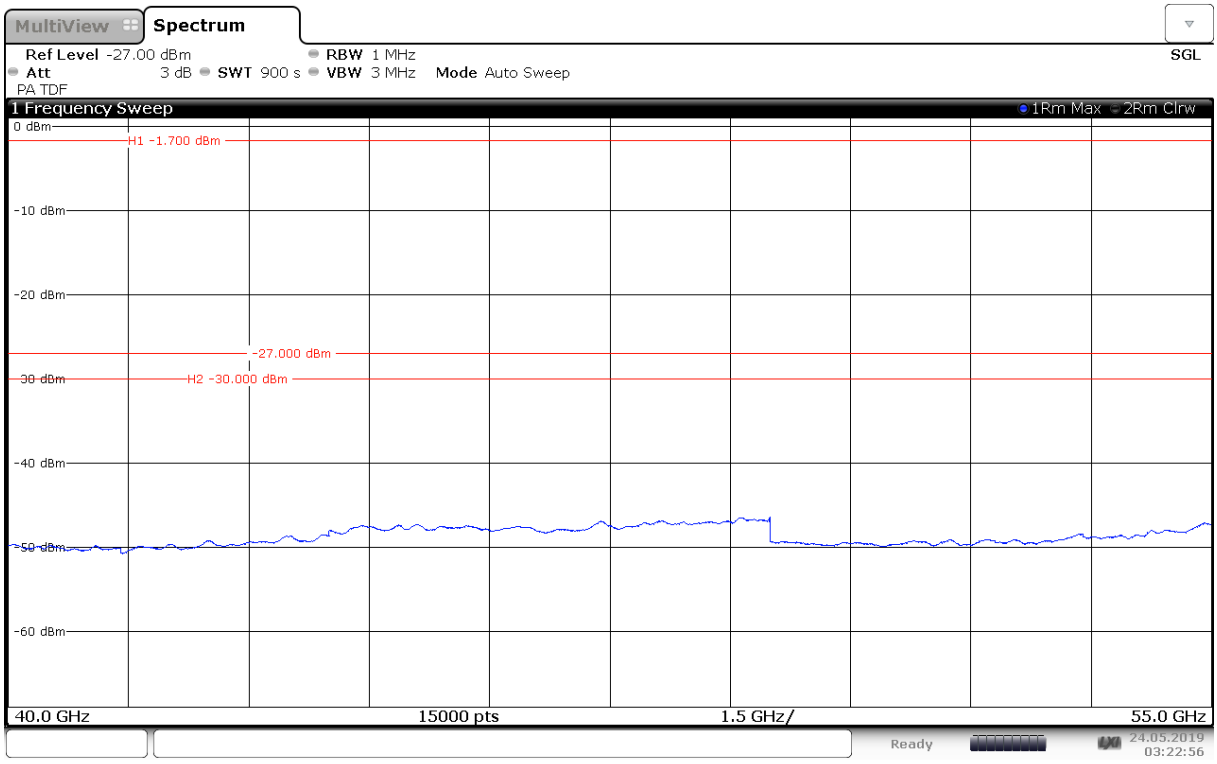
5.12. 40 GHz – 55 GHz, ANT HOR + VER, all positions, f_CW_high



04:16:20 24.05.2019

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

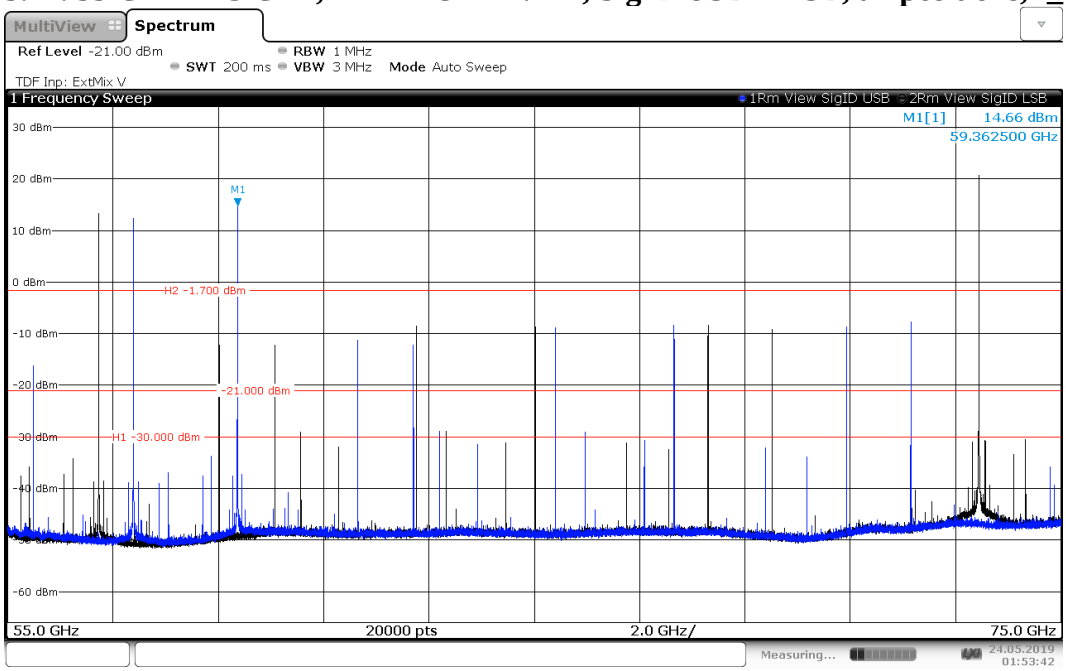
5.13. 40 GHz – 55 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



03:22:56 24.05.2019

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

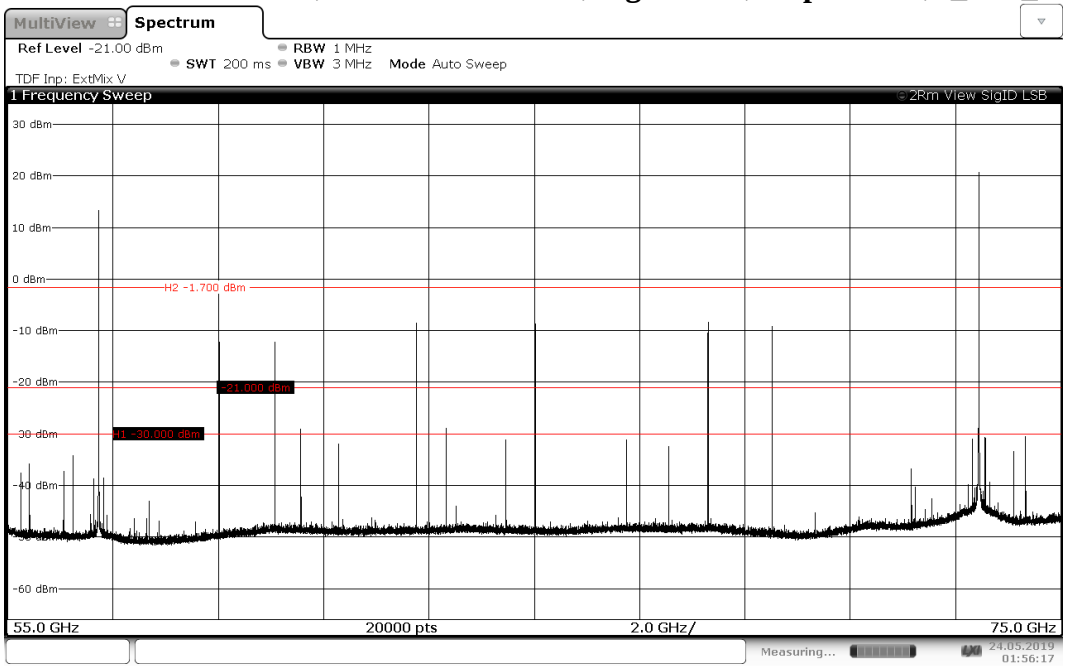
5.14. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



01:53:42 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

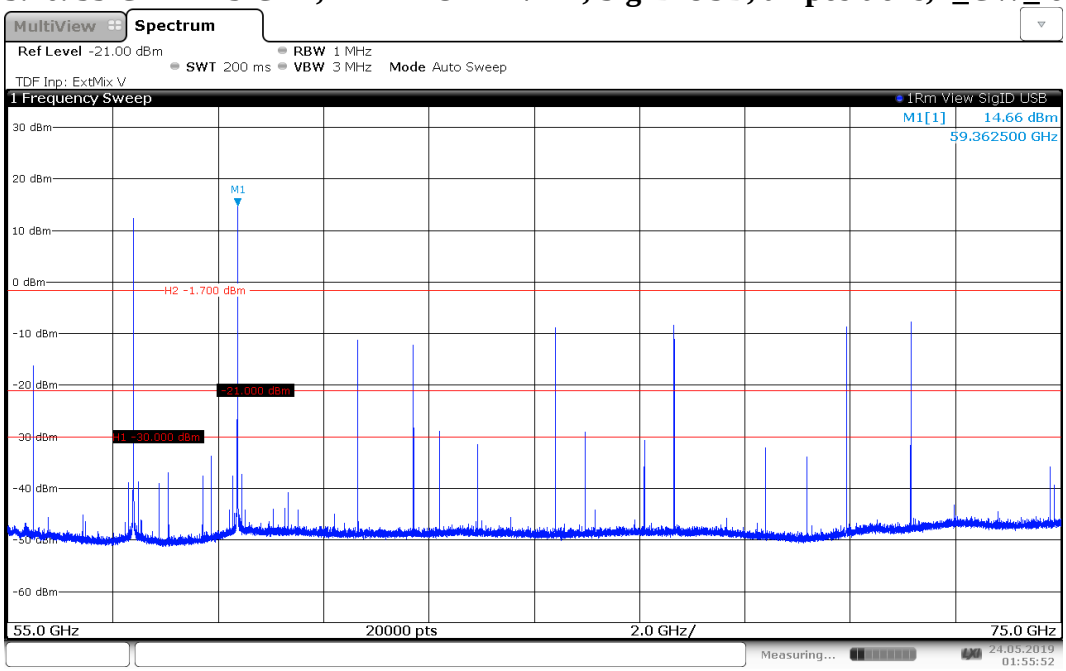
5.15. 55 GHz – 75 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_low



01:56:17 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

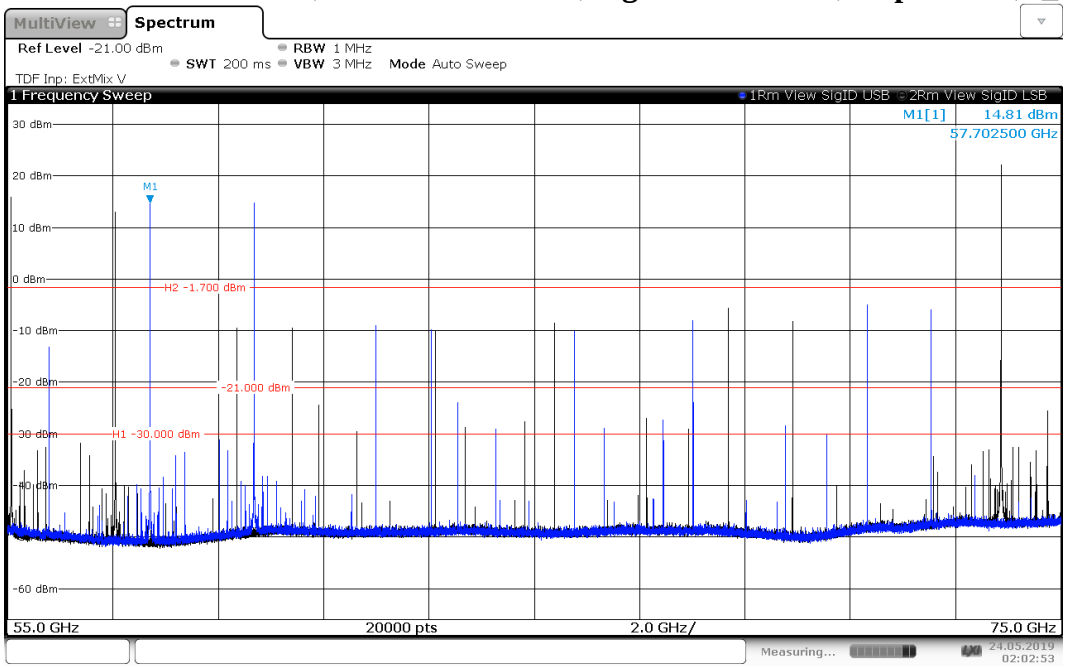
5.16. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_low



01:55:52 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

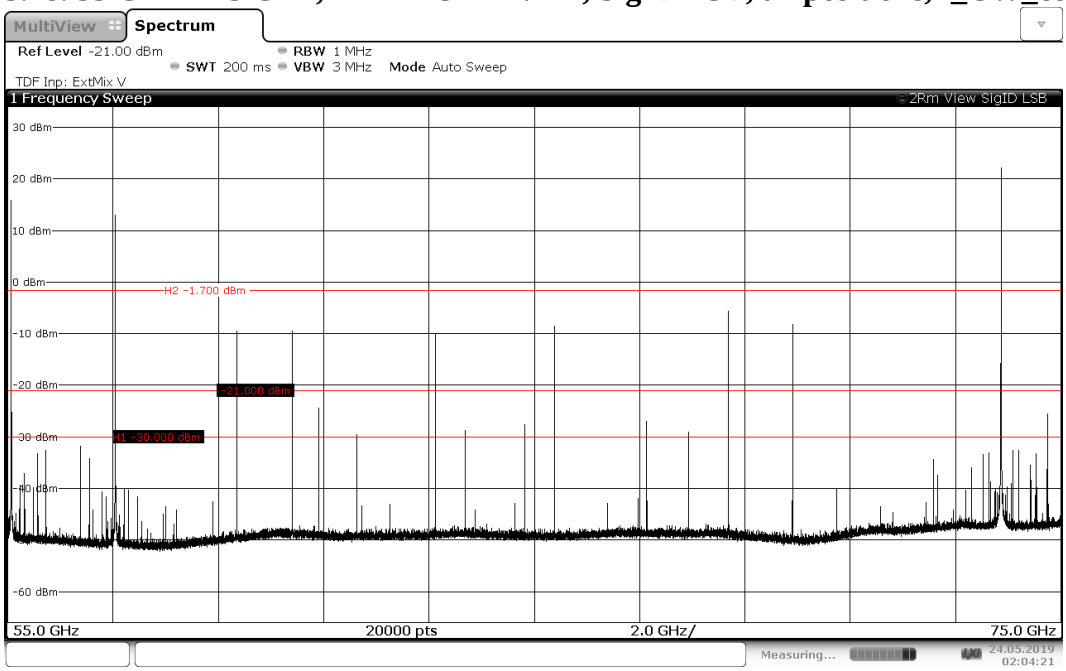
5.17. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



02:02:53 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

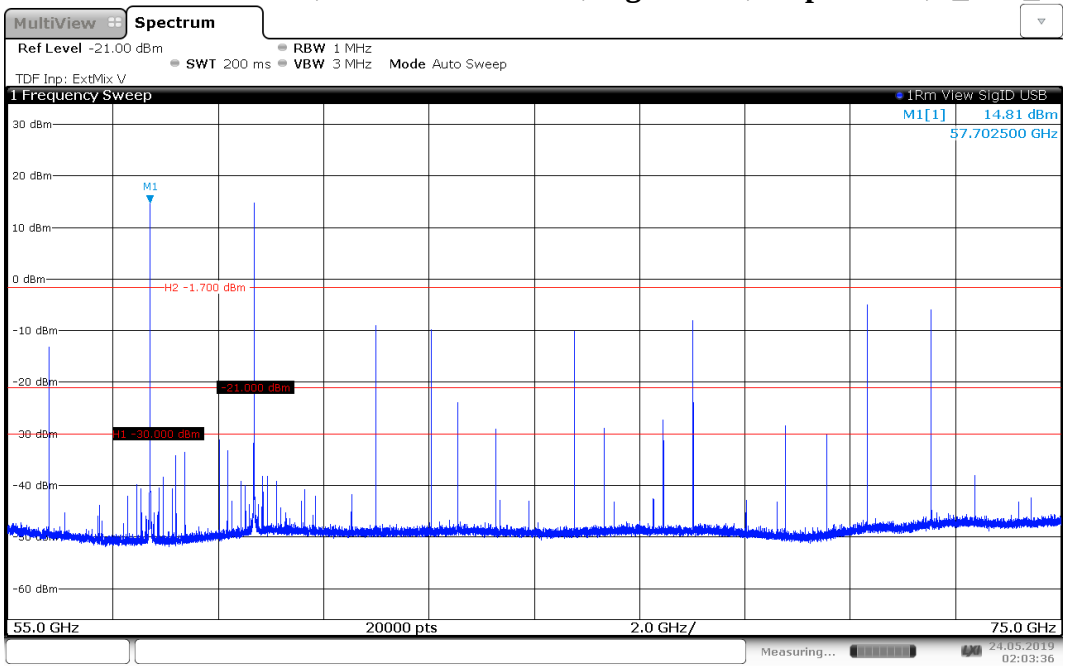
5.18. 55 GHz – 75 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_center



02:04:21 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

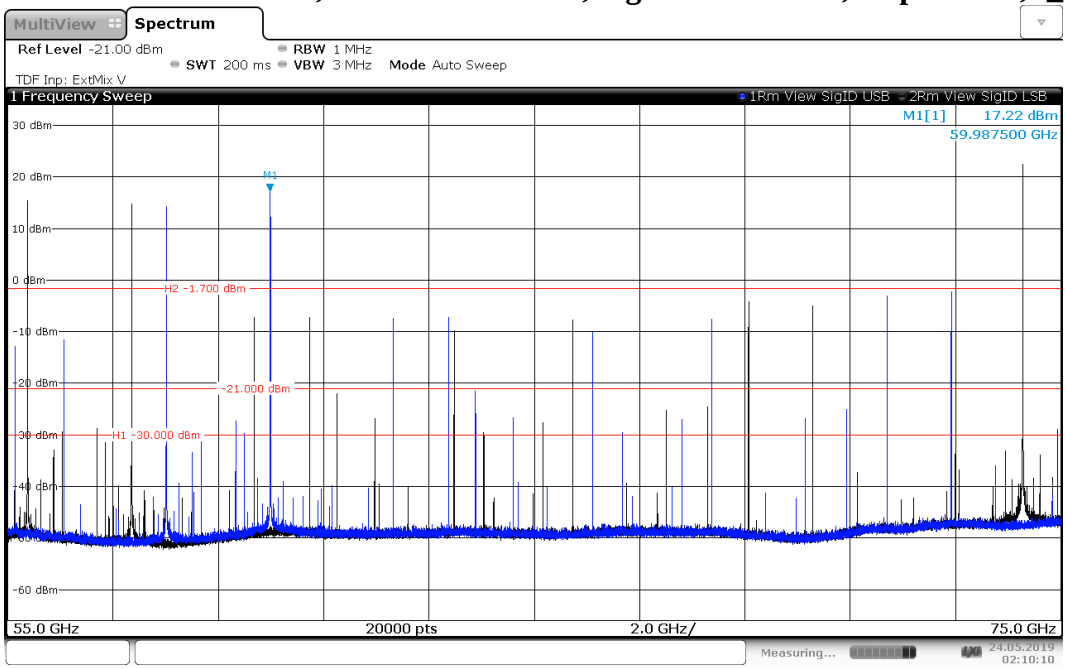
5.19. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_center



02:03:36 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

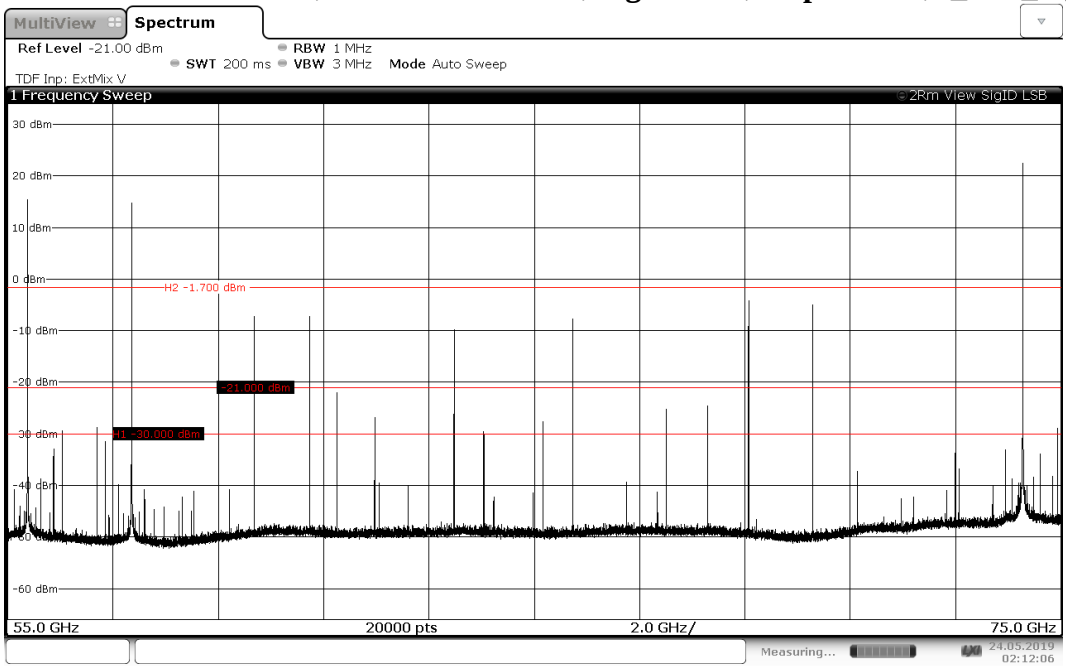
5.20. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



02:10:10 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

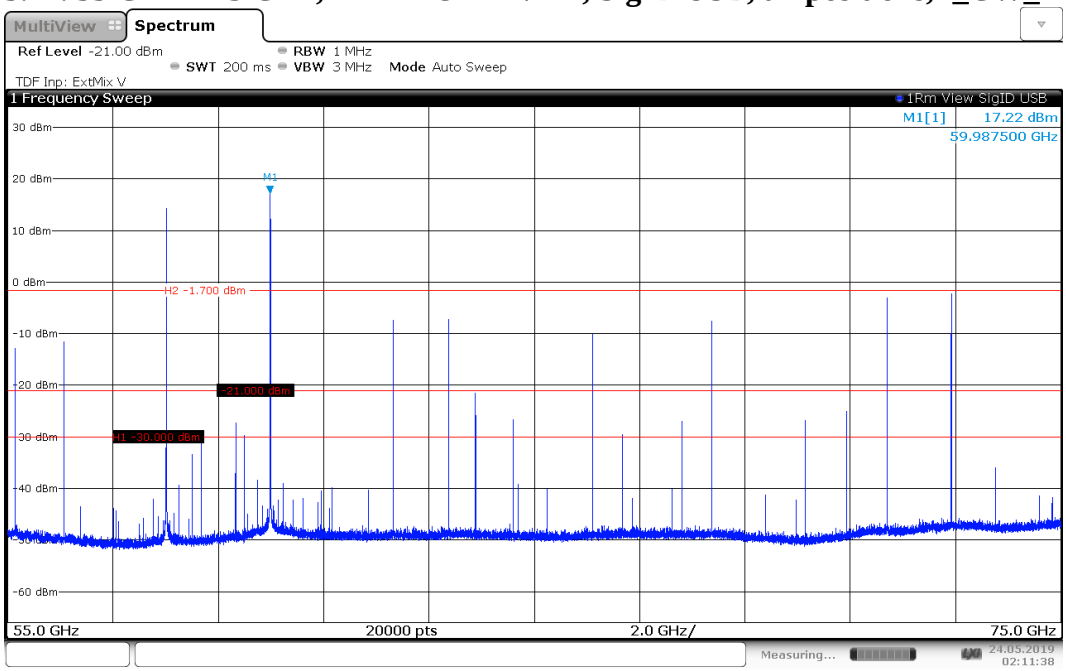
5.21. 55 GHz – 75 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_high



02:12:06 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

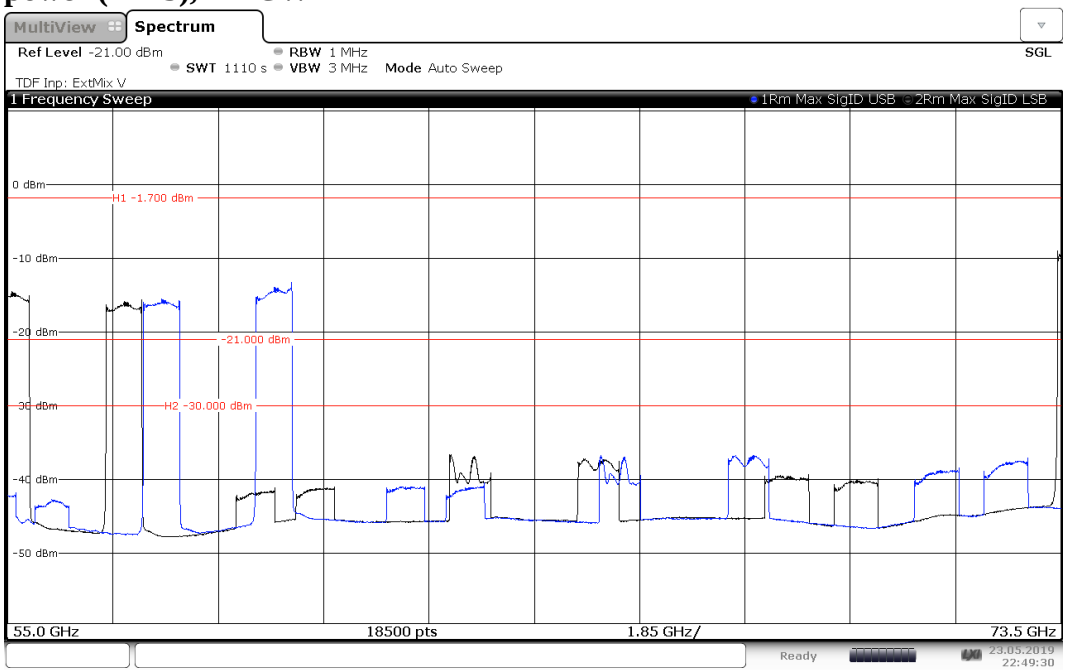
5.22. 55 GHz – 75 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_high



02:11:39 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

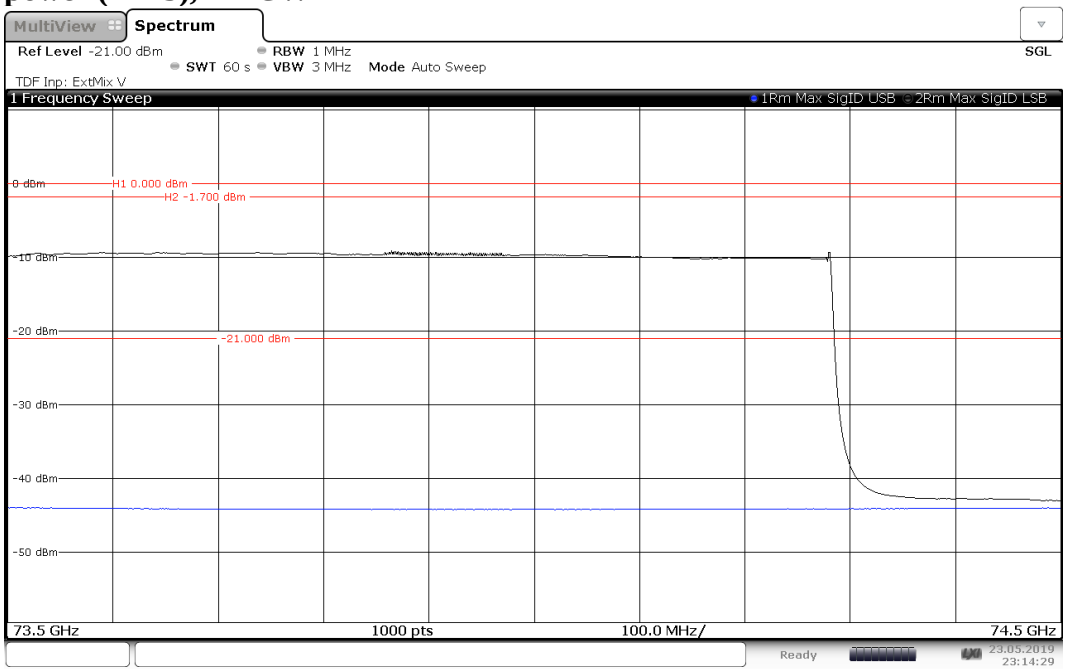
5.23. 55 GHz – 73.5 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



22:49:30 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

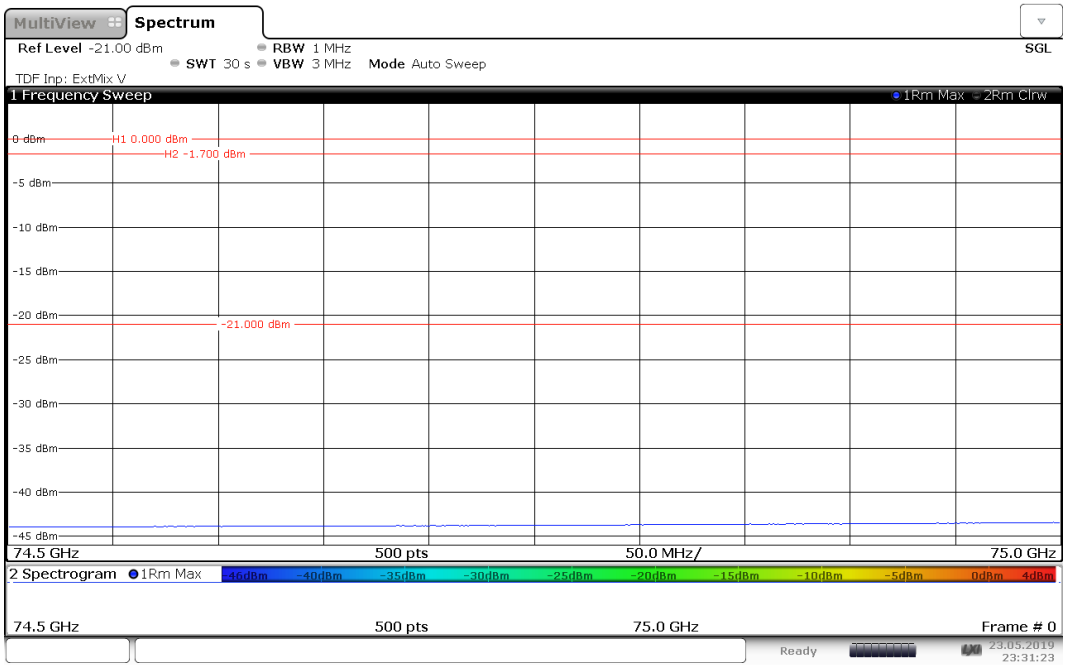
5.24. 73.5 GHz – 74.5 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



23:14:29 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and 0 dBm (ISED).

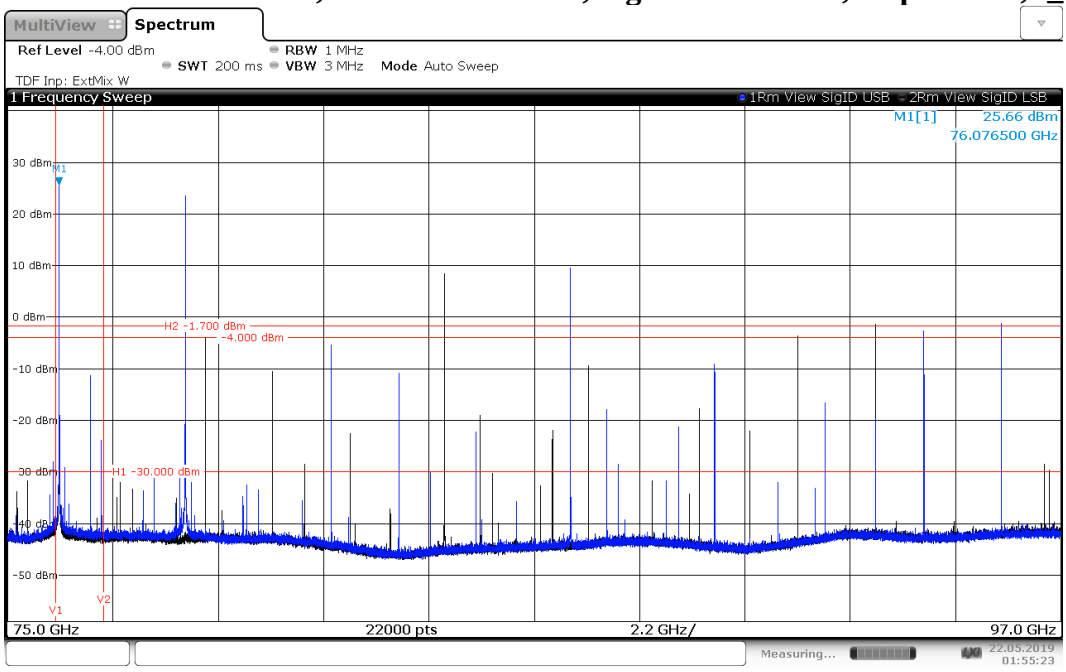
5.25. 74.5 GHz – 75 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



23:31:23 23.05.2019

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

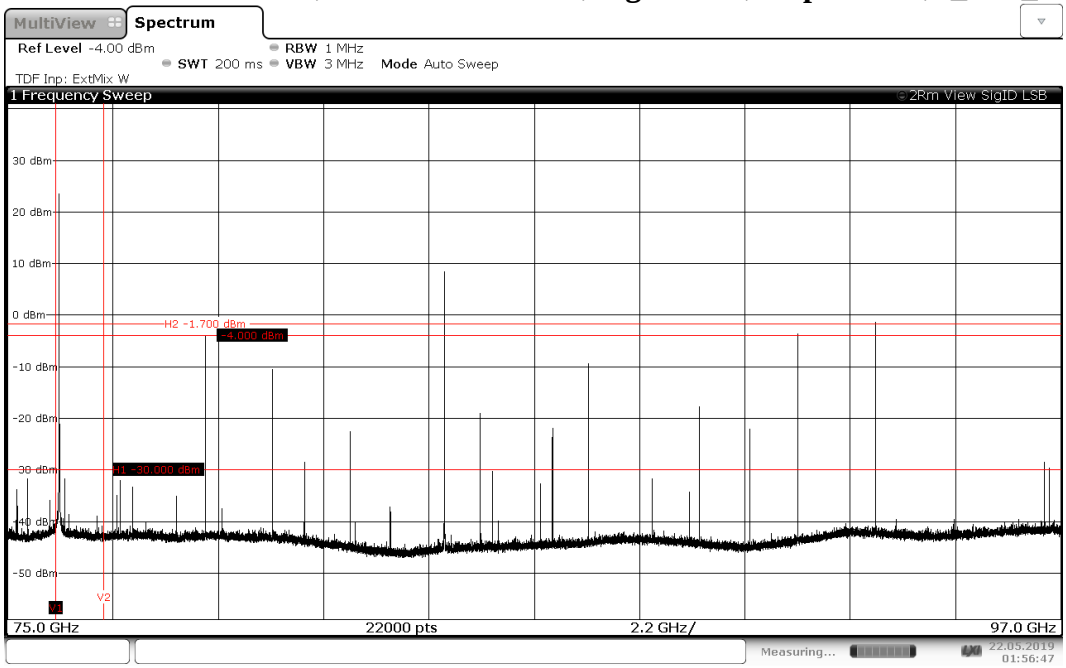
5.26. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



01:55:23 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

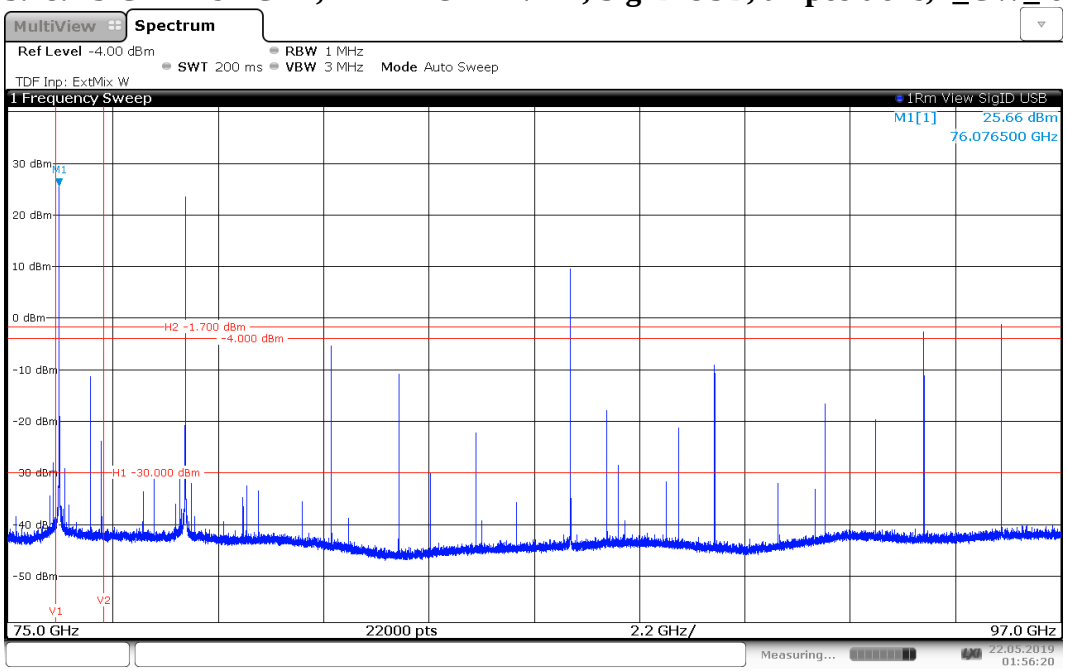
5.27. 75 GHz – 97 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_low



01:56:48 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. -4 dBm is a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

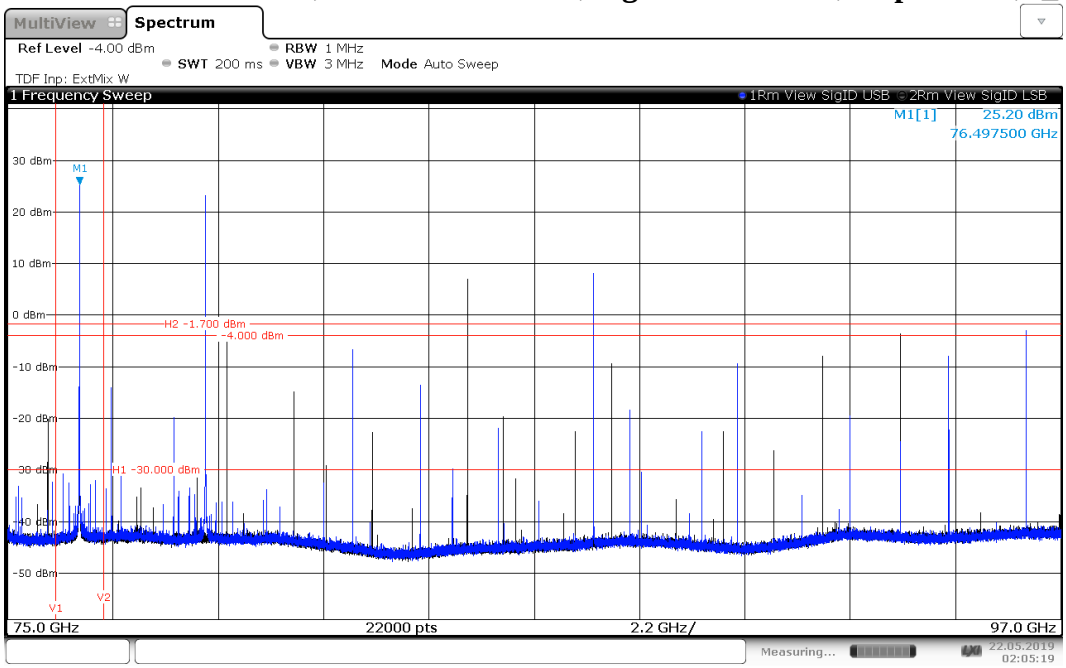
5.28. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_low



01:56:20 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. -4 dBm is a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

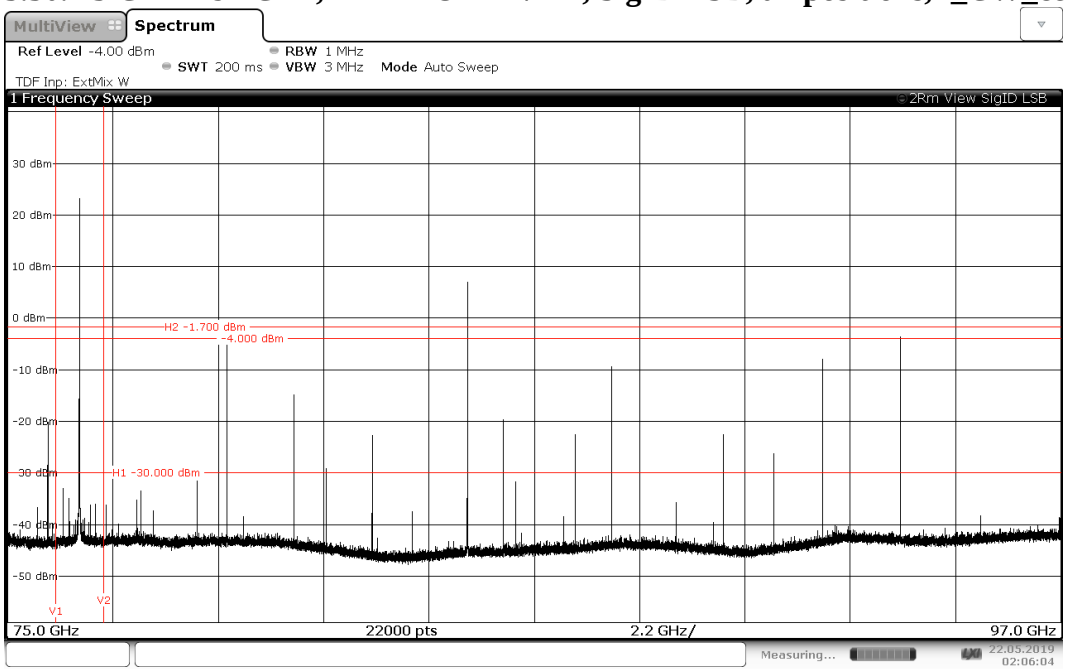
5.29. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



02:05:19 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. -4 dBm is a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

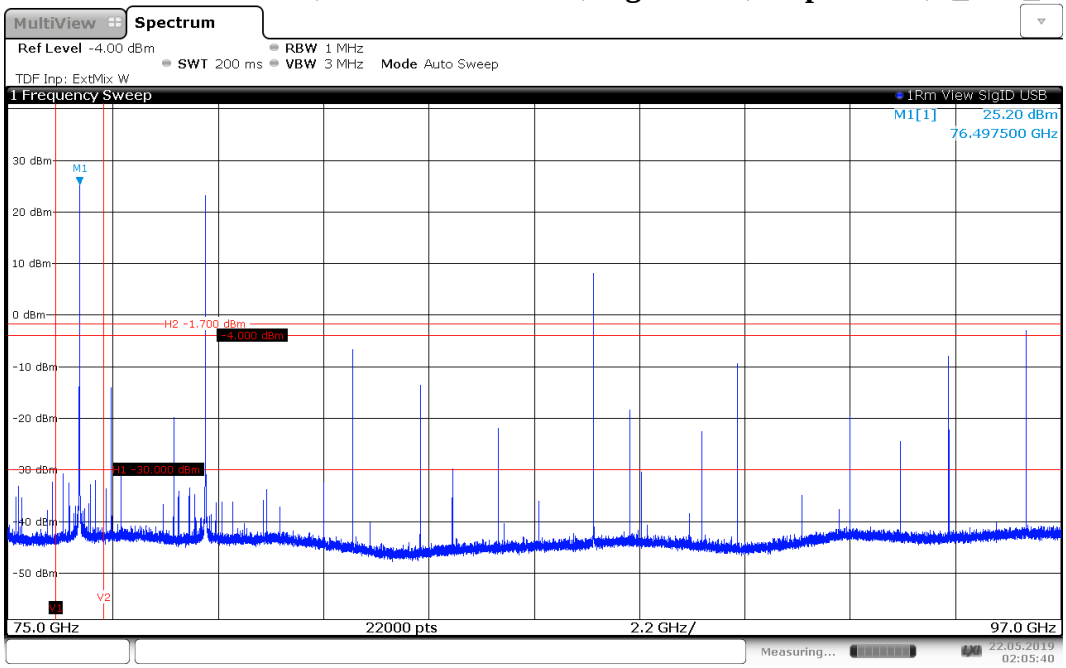
5.30. 75 GHz – 97 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_center



02:06:04 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

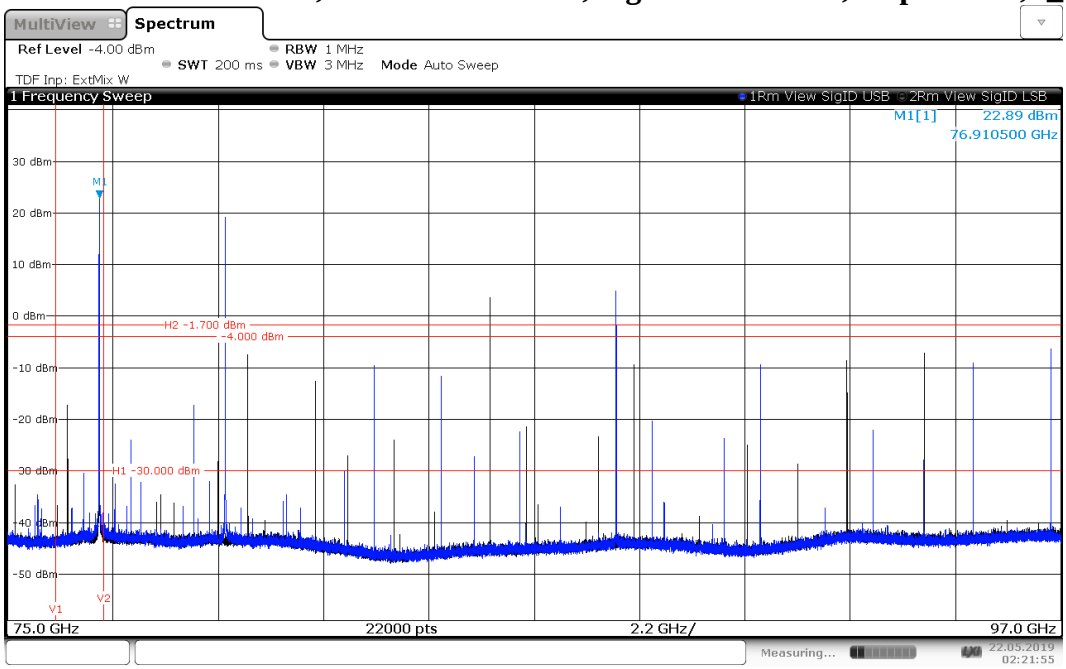
5.31. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_center



02:05:41 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

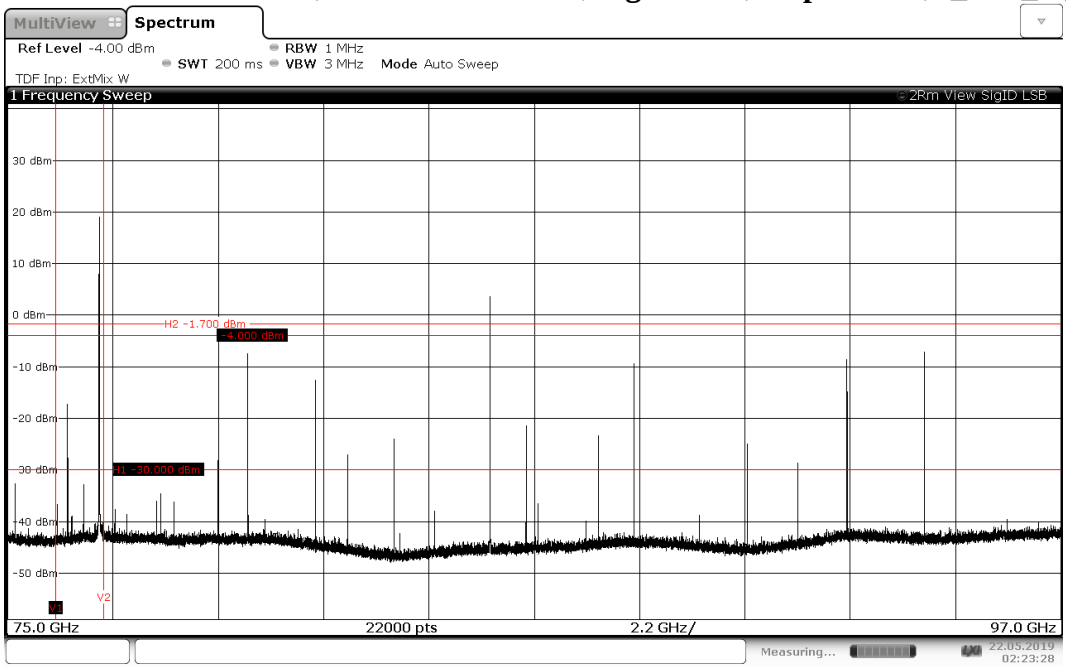
5.32. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



02:21:56 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 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

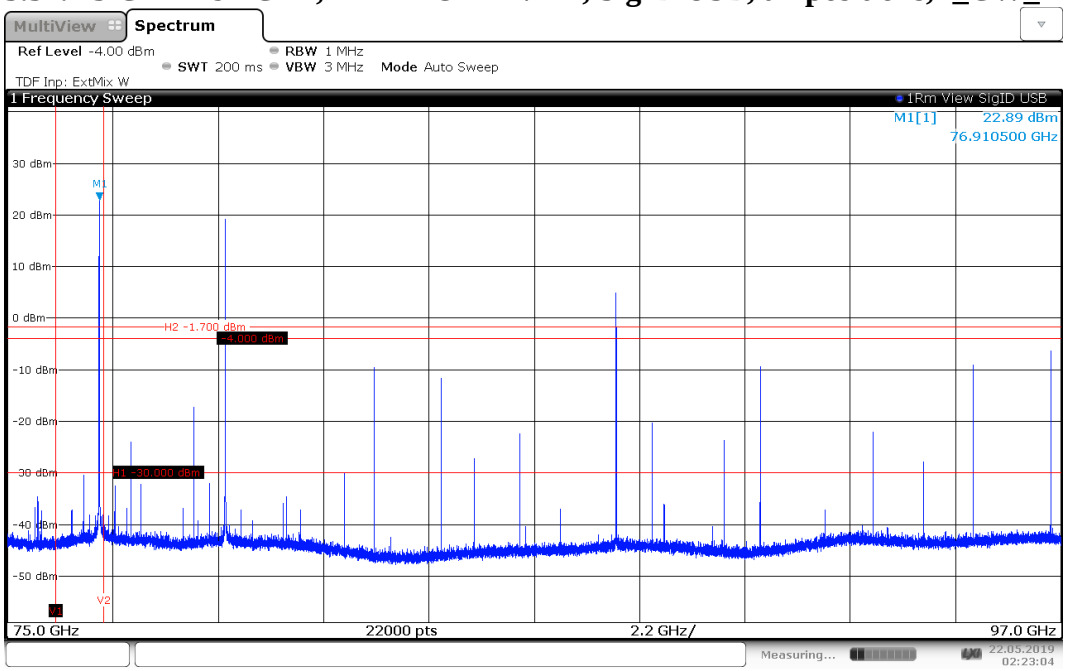
5.33. 75 GHz – 97 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_high



02:23:29 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

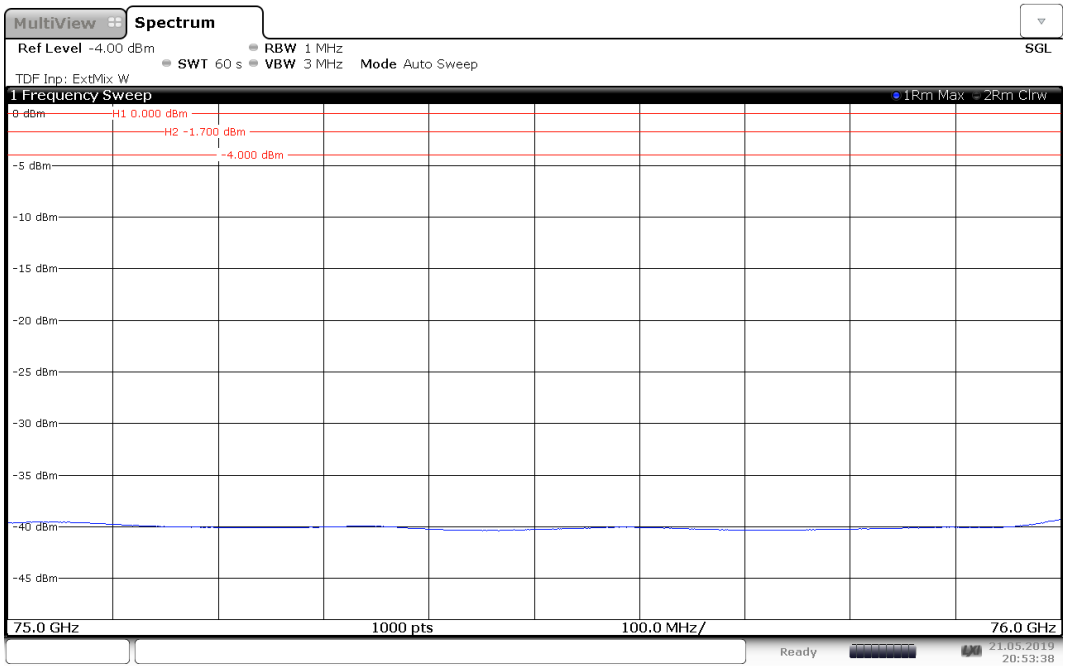
5.34. 75 GHz – 97 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_high



02:23:04 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

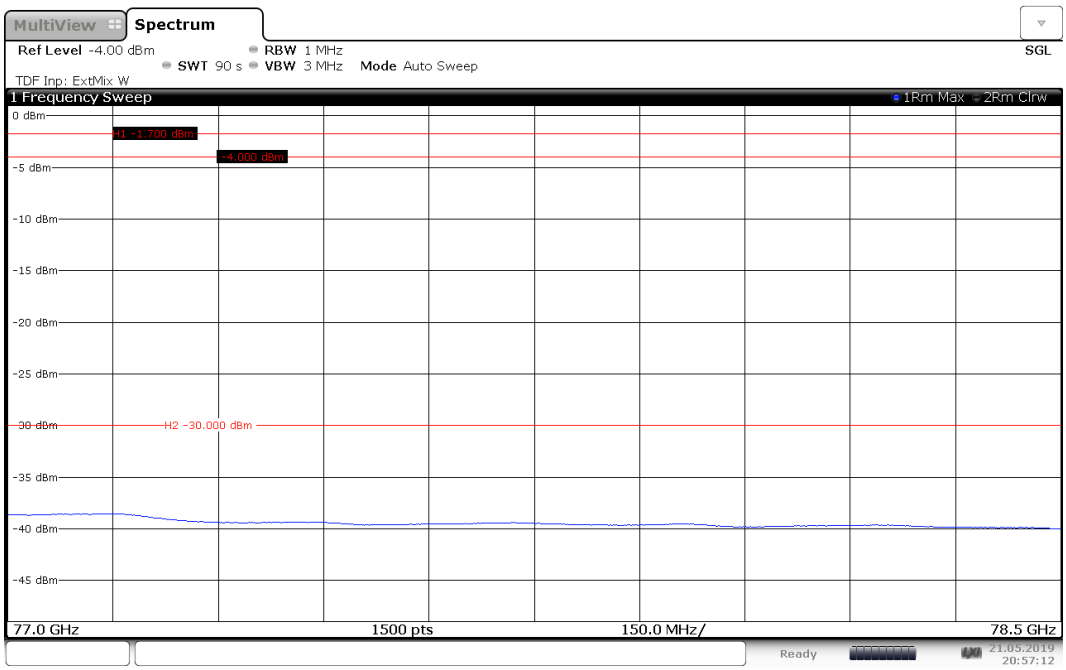
5.35. 75 GHz – 76 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



20:53:38 21.05.2019

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

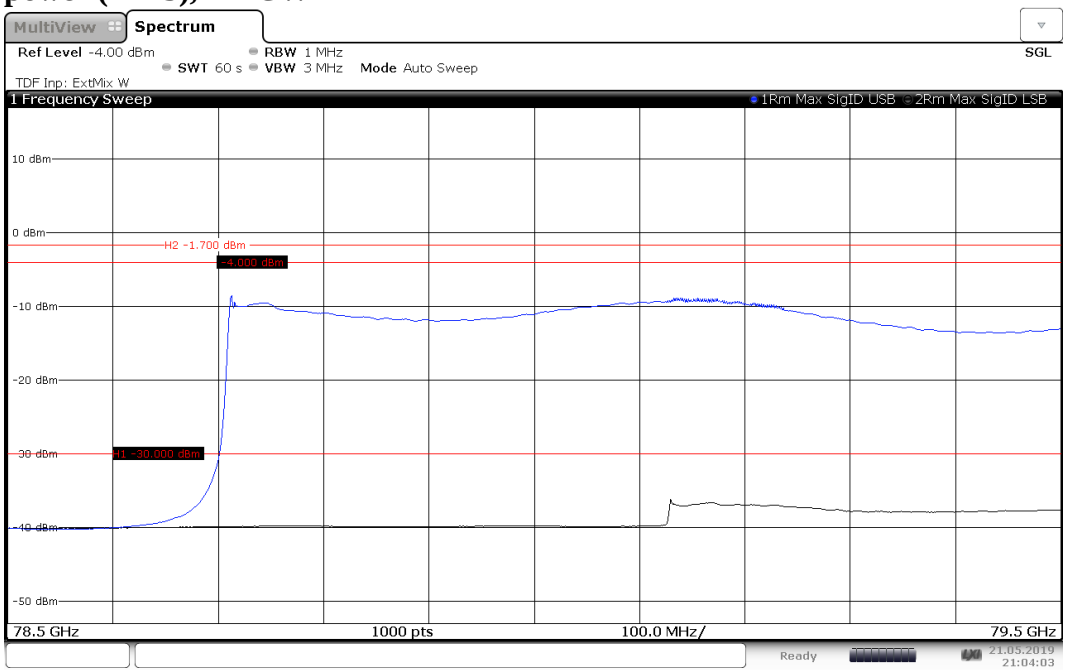
5.36. 77 GHz – 78.5 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



20:57:13 21.05.2019

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

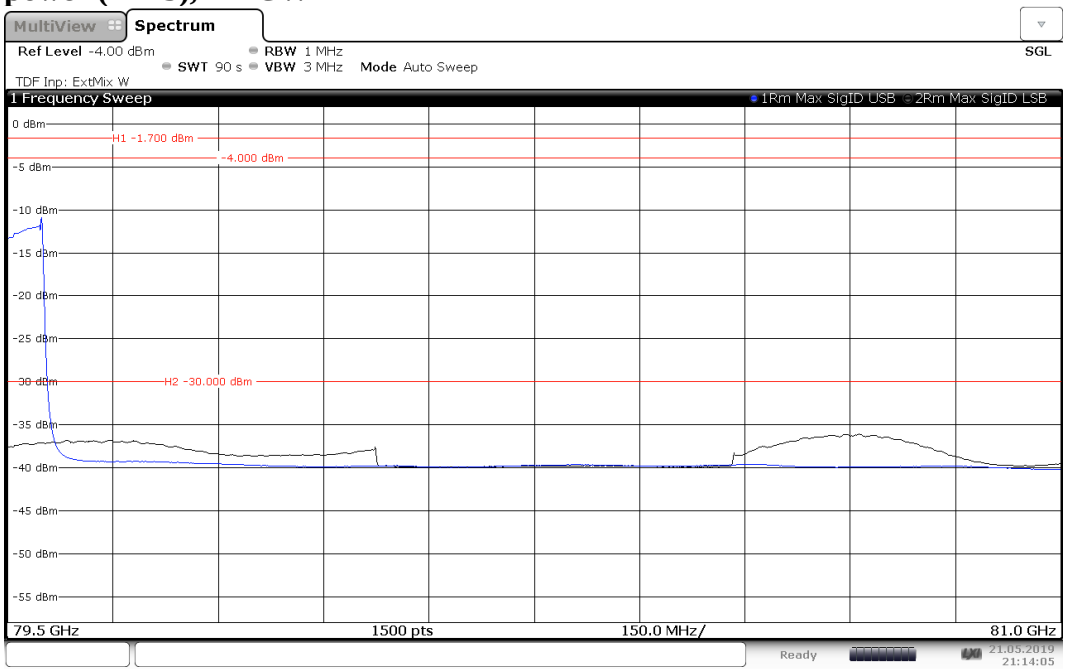
5.37. 78.5 GHz – 79.5 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



21:04:04 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

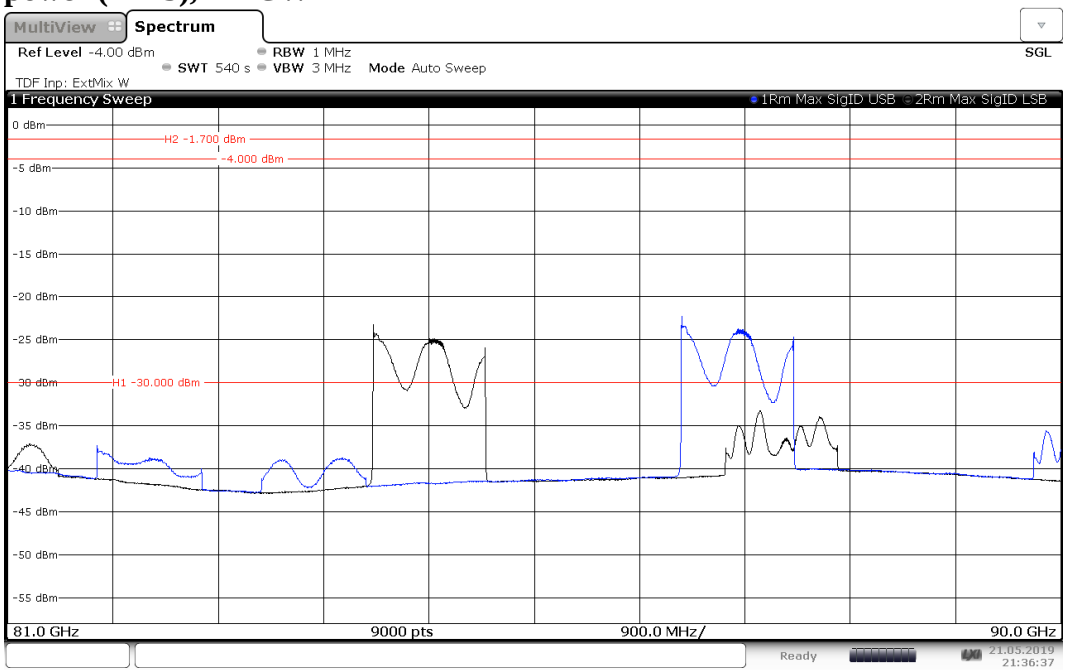
5.38. 79.5 GHz – 81 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



21:14:05 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

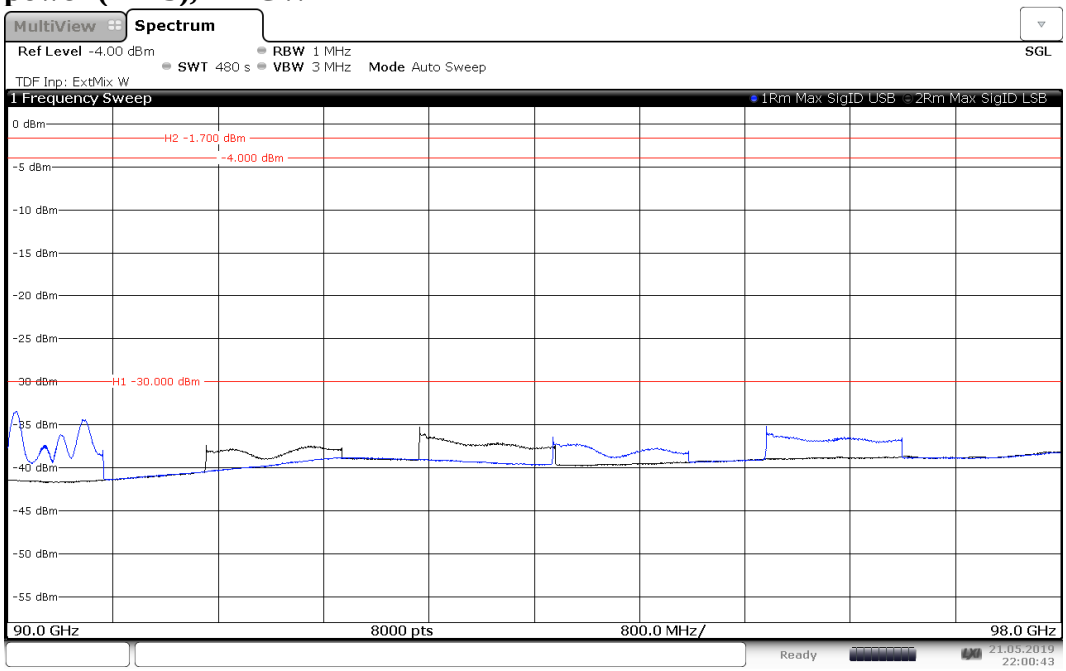
5.39. 81 GHz – 90 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



21:36:38 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

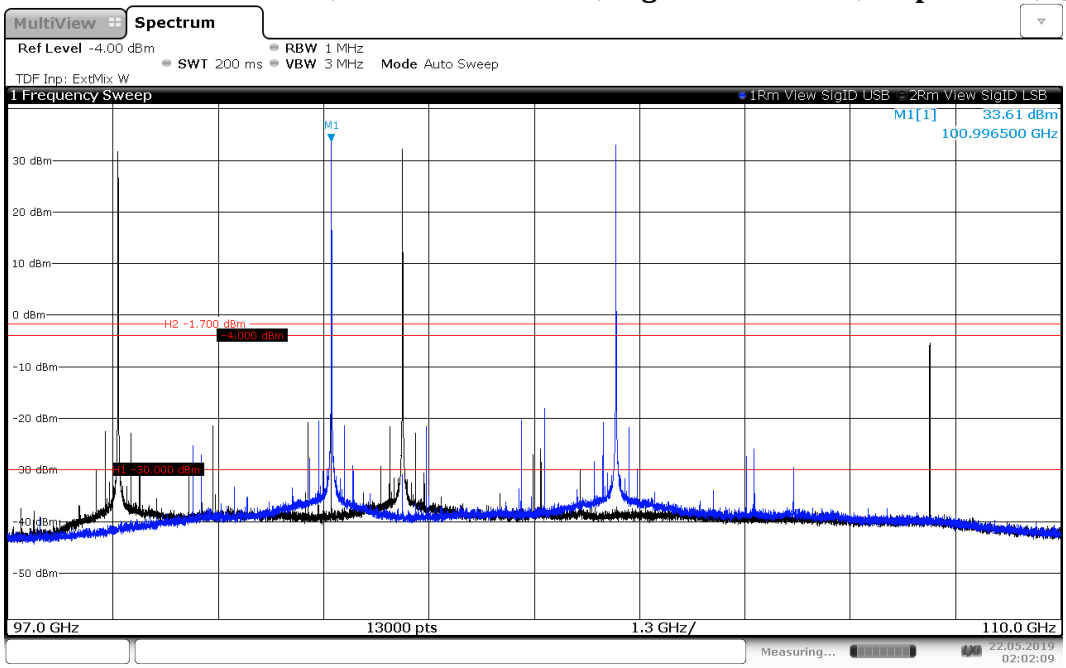
5.40. 90 GHz – 98 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



22:00:44 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

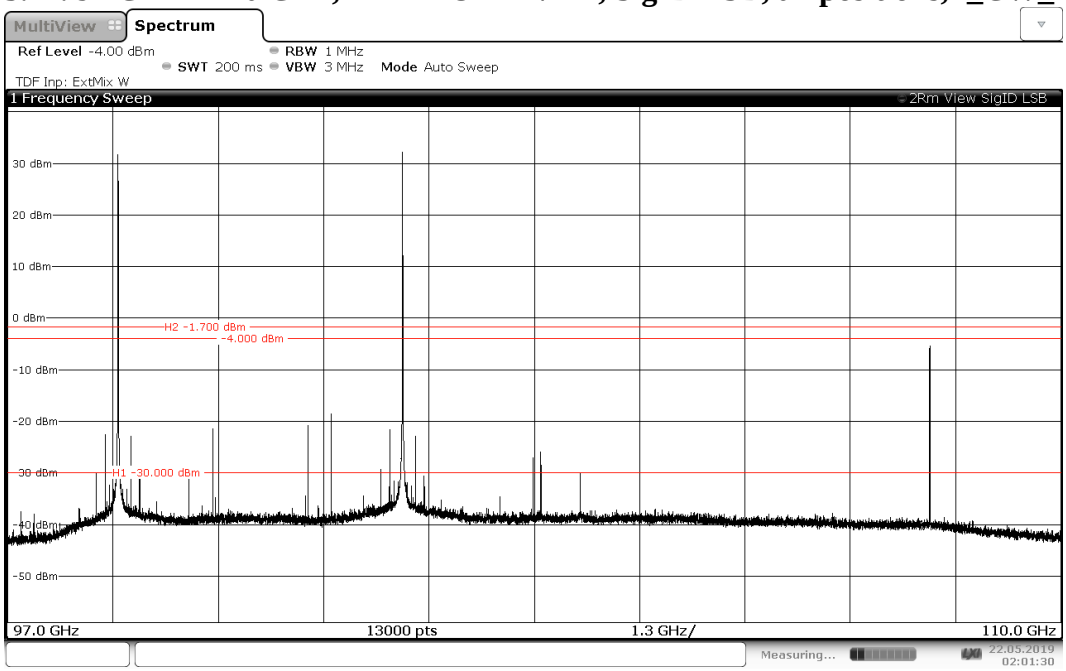
5.41. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



02:02:09 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

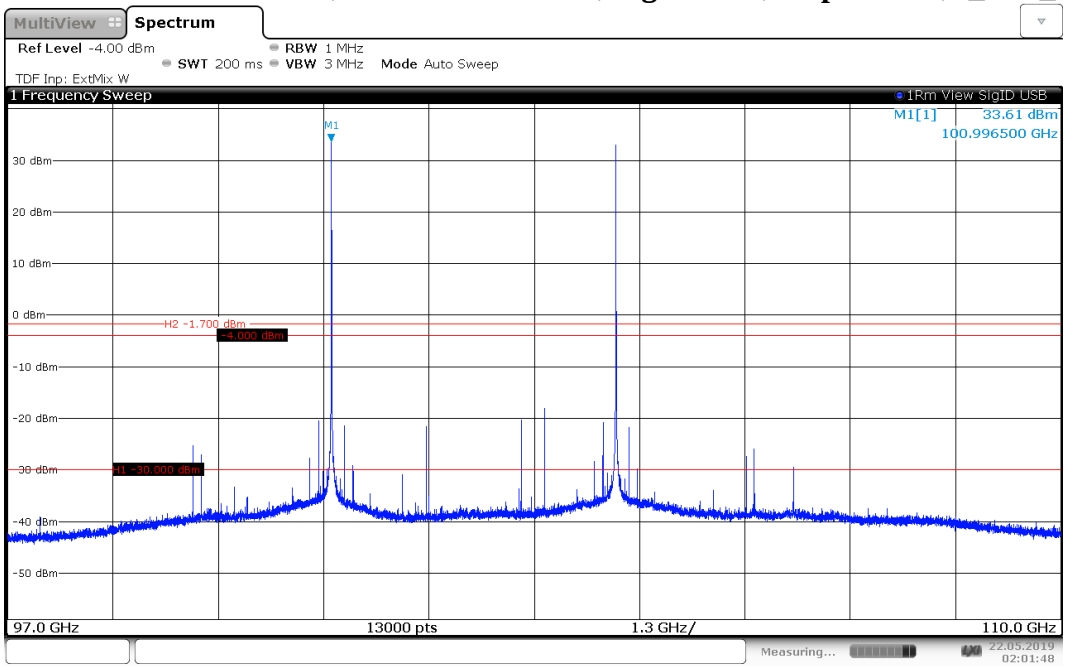
5.42. 97 GHz – 110 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_low



02:01:31 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. -4 dBm is a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

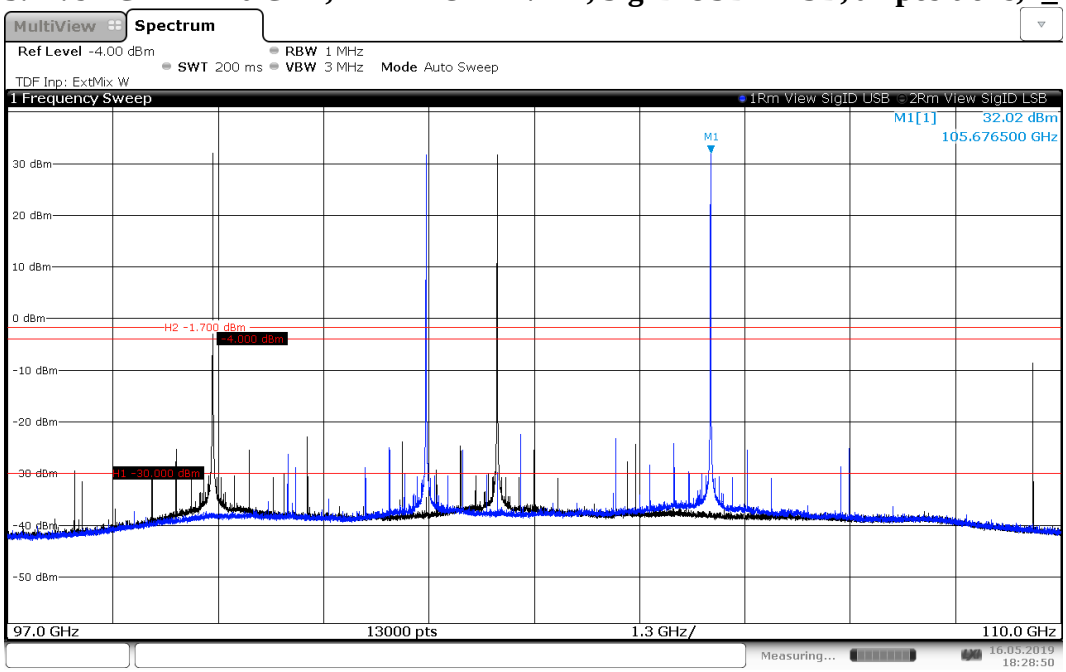
5.43. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_low



02:01:49 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

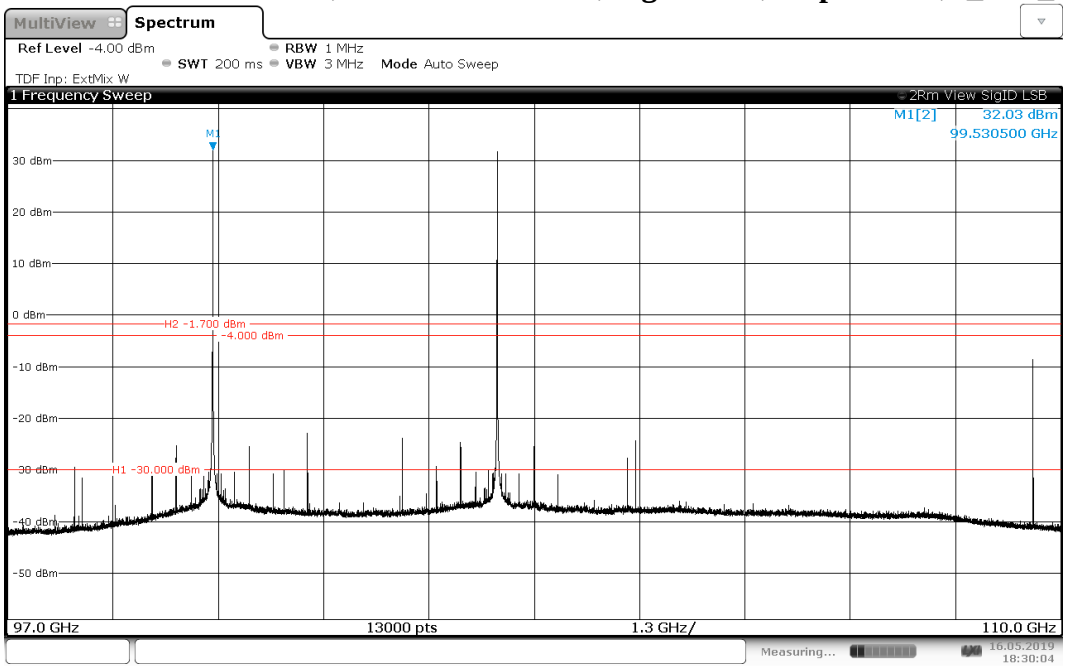
5.44. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



18:28:50 16.05.2019

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

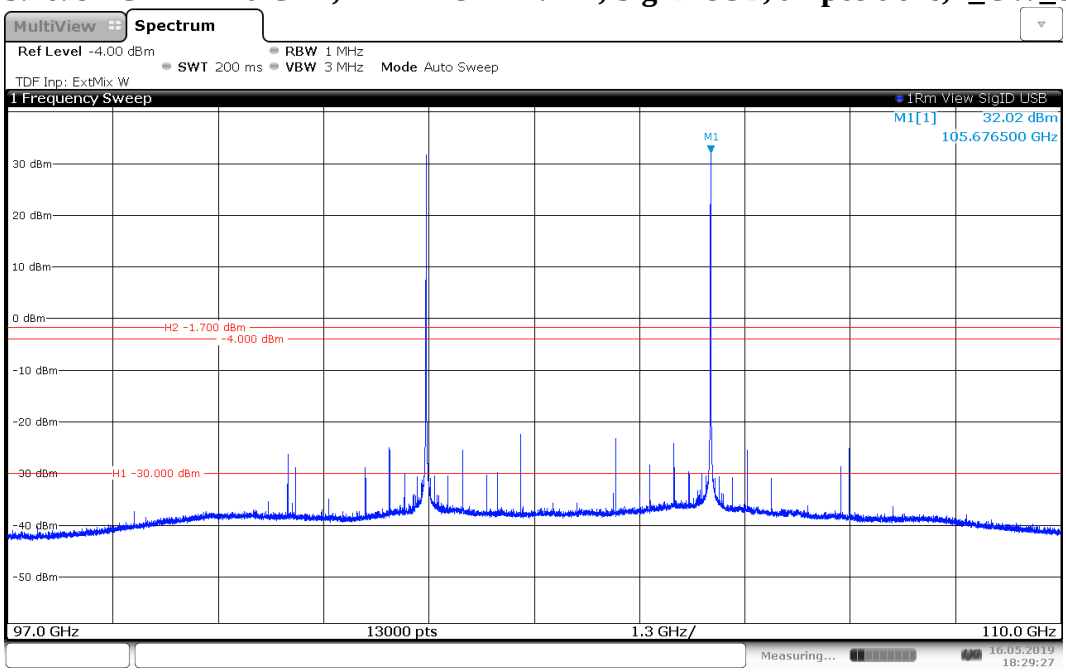
5.45. 97 GHz – 110 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_center



18:30:05 16.05.2019

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

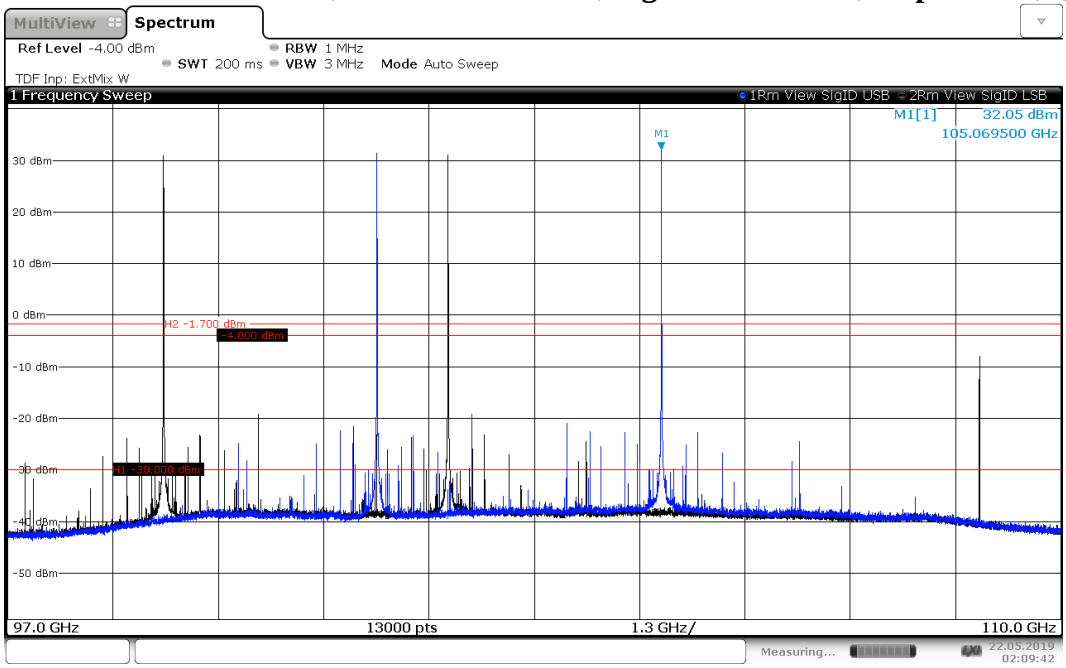
5.46. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_center



18:29:28 16.05.2019

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

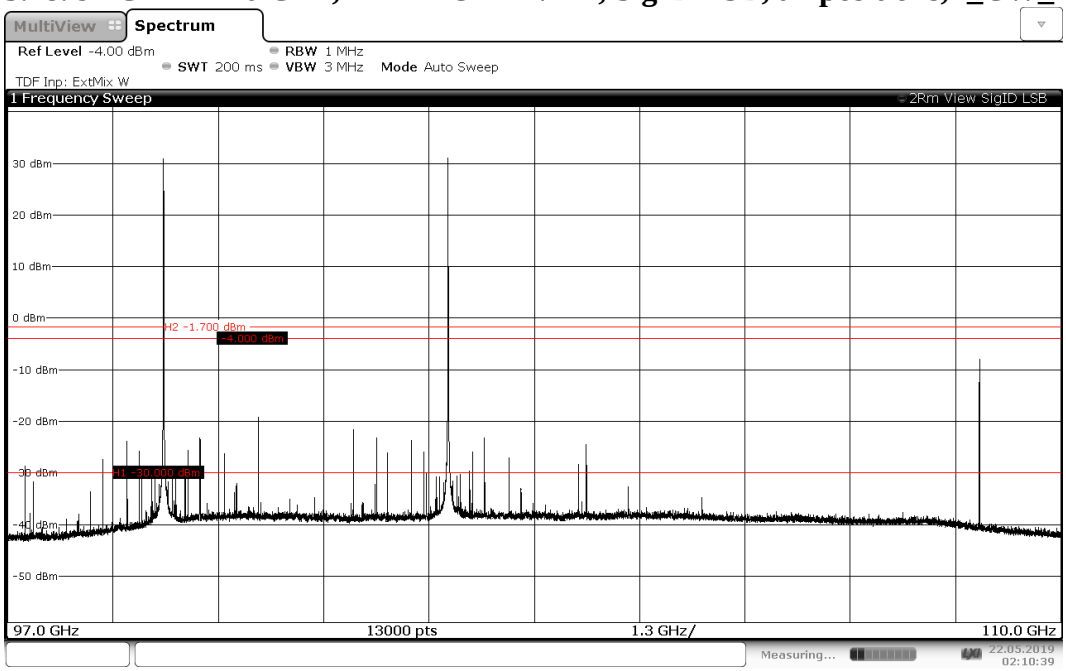
5.47. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



02:09:42 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

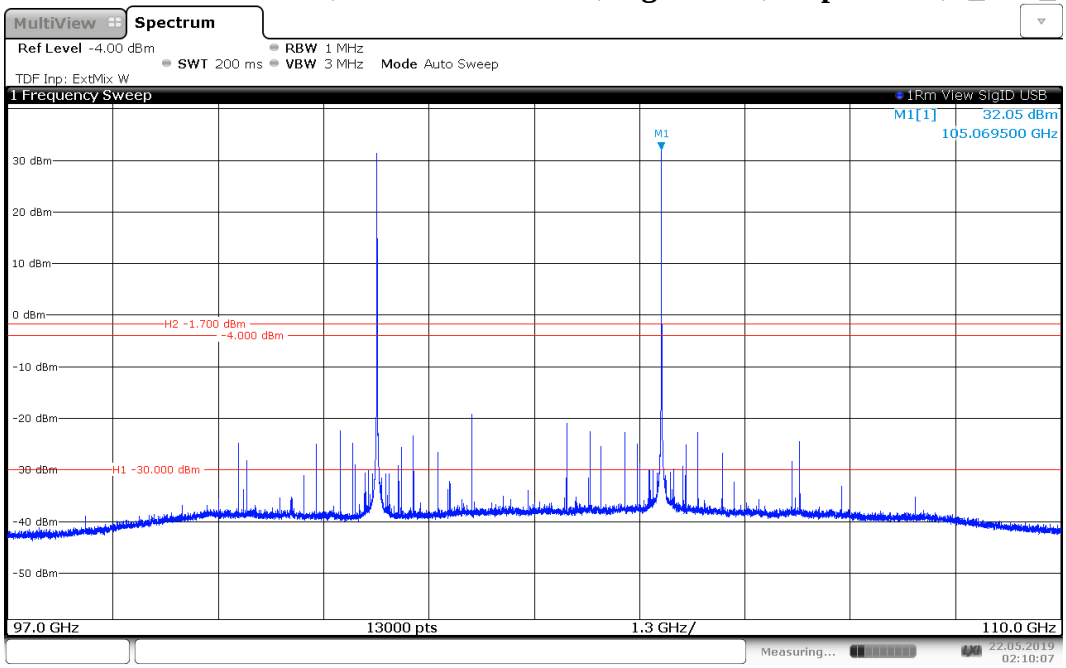
5.48. 97 GHz – 110 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_high



02:10:40 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

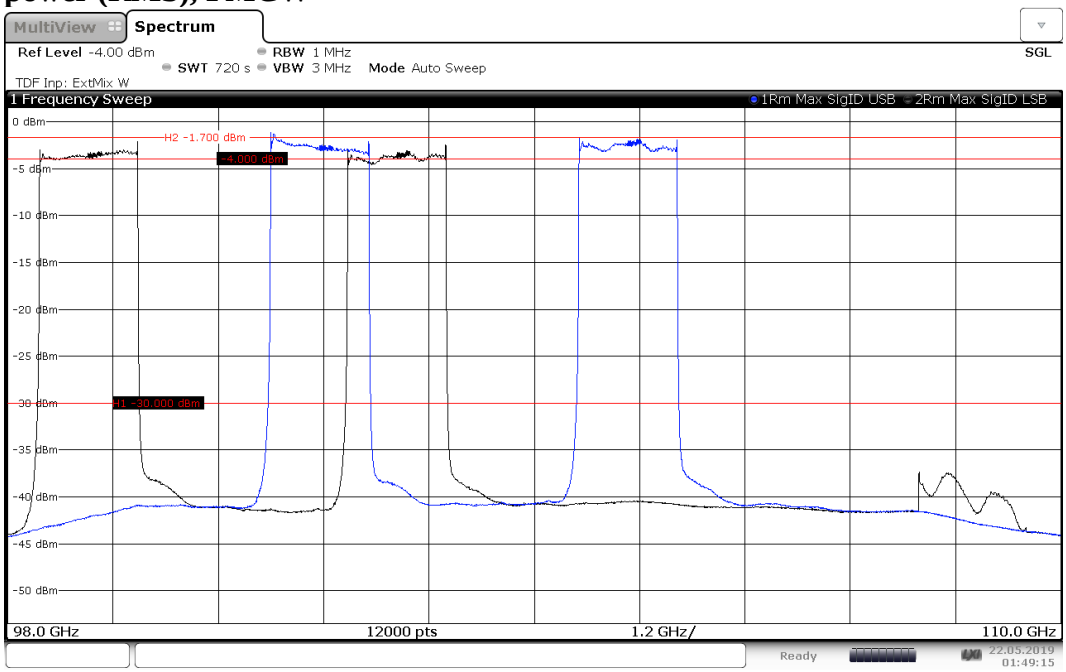
5.49. 97 GHz – 110 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_high



02:10:07 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

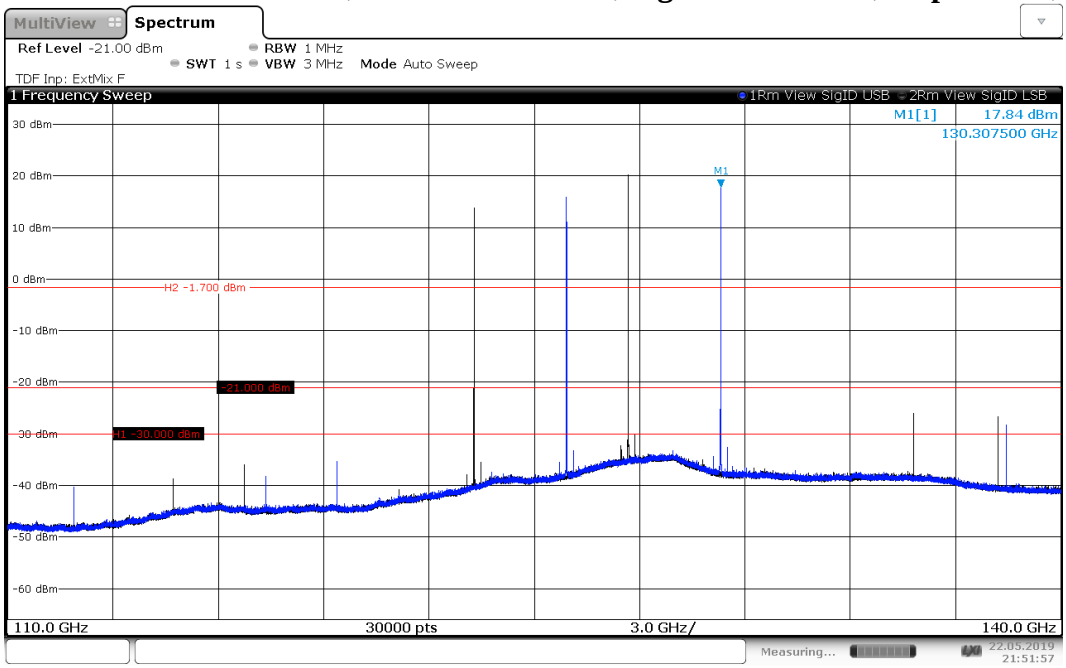
5.50. 98 GHz – 110 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



01:49:16 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

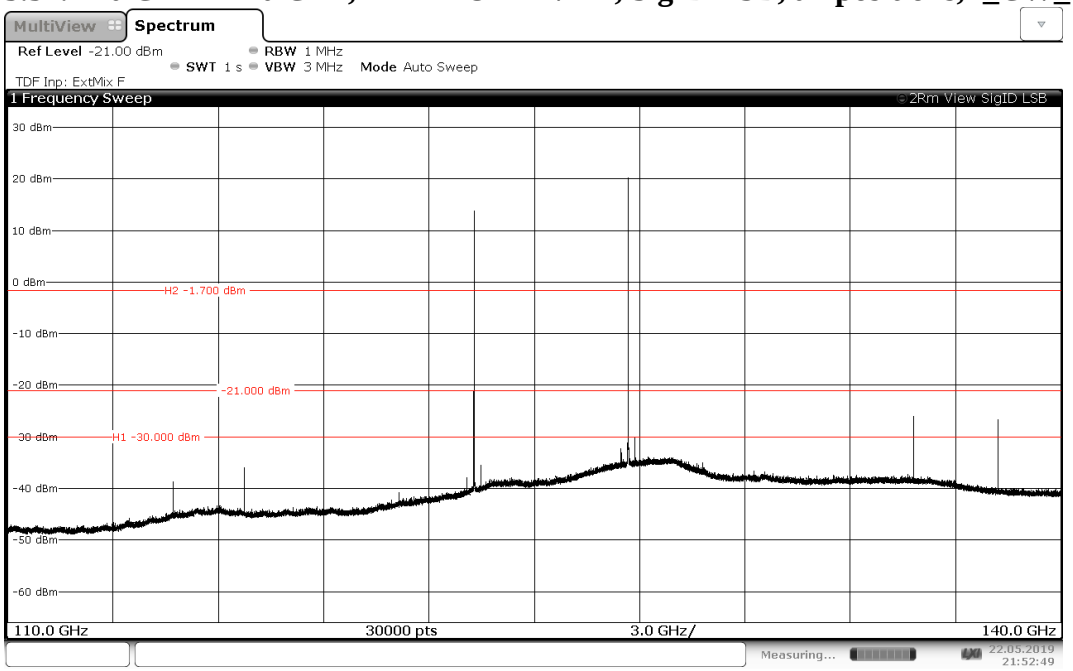
5.51. 110 GHz – 140 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



21:51:58 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

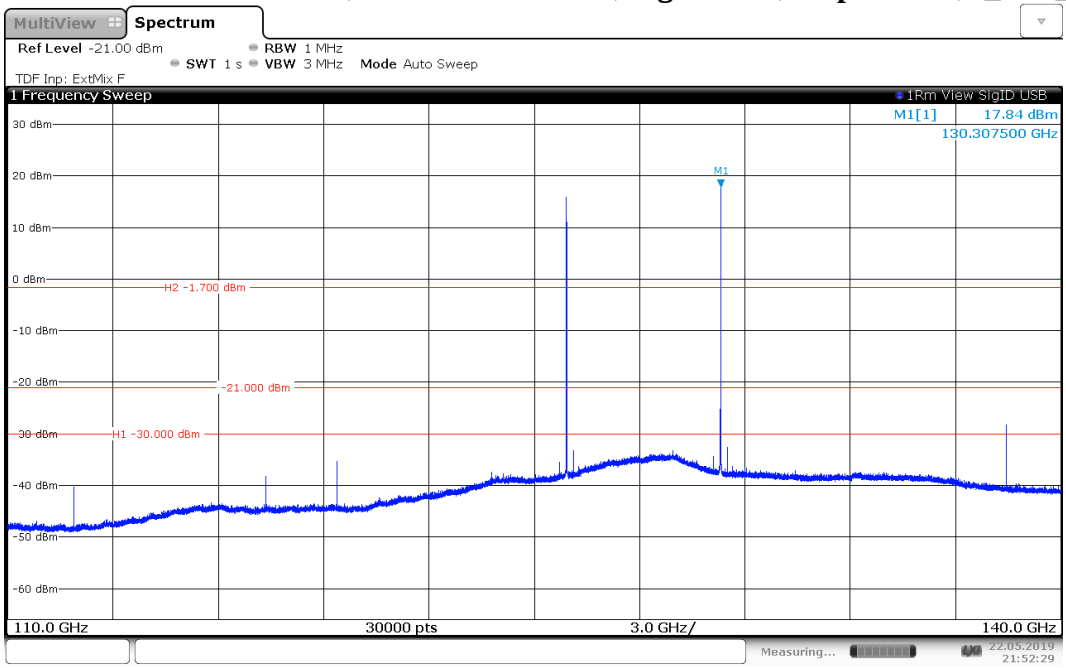
5.52. 110 GHz – 140 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_low



21:52:49 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

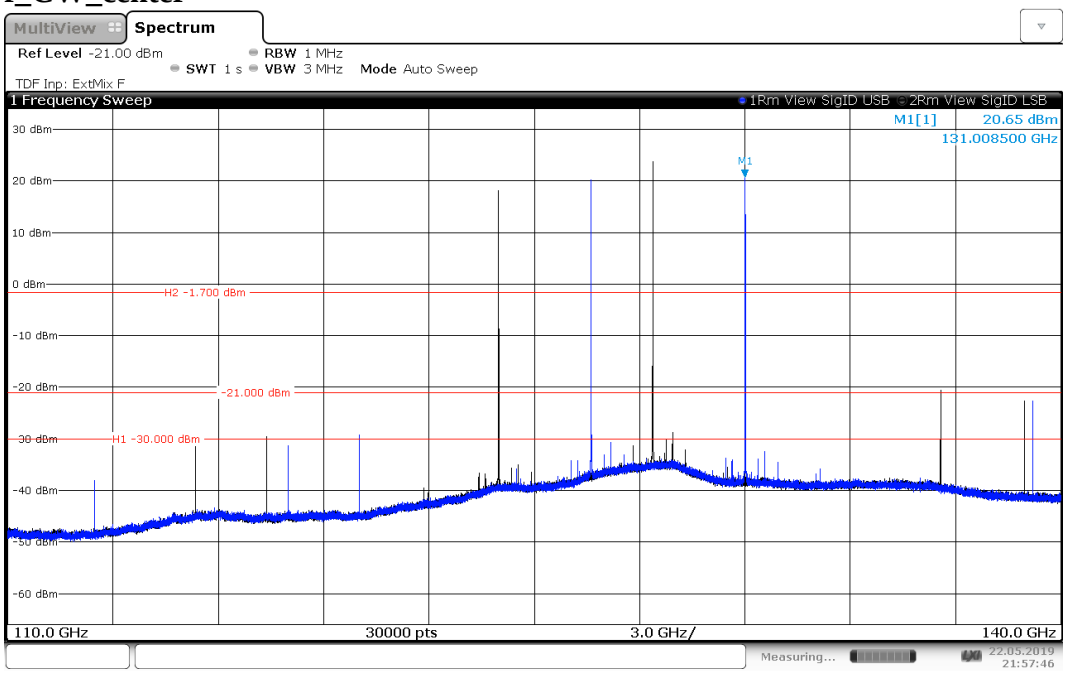
5.53. 110 GHz – 140 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_low



21:52:29 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. -21 dBm is a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

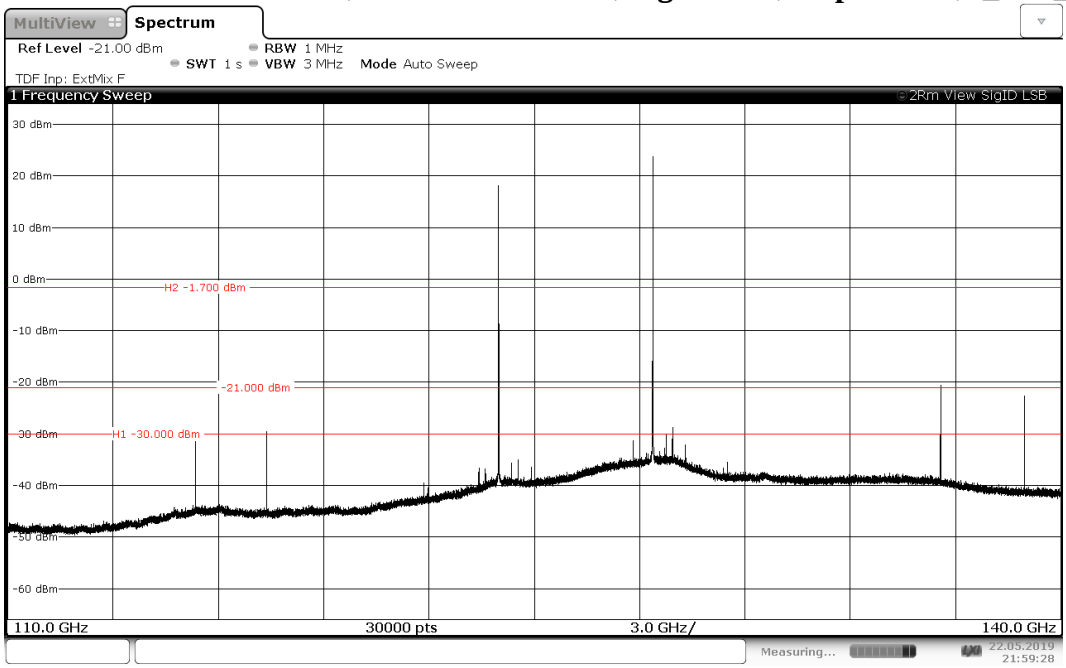
5.54. 110 GHz – 140 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



21:57:46 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

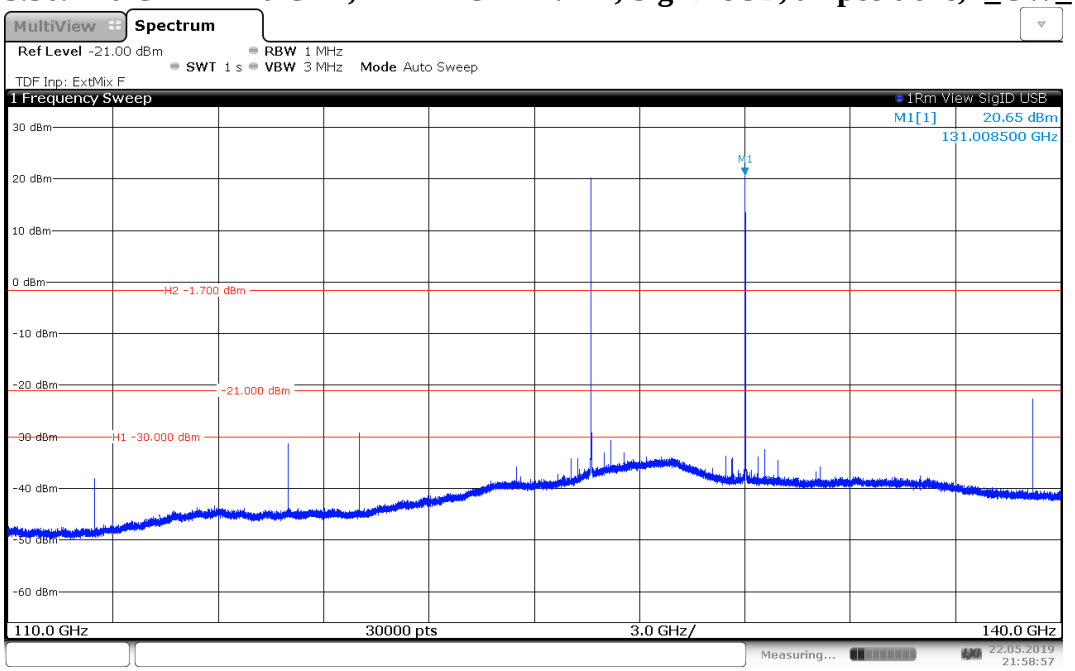
5.55. 110 GHz – 140 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_center



21:59:28 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

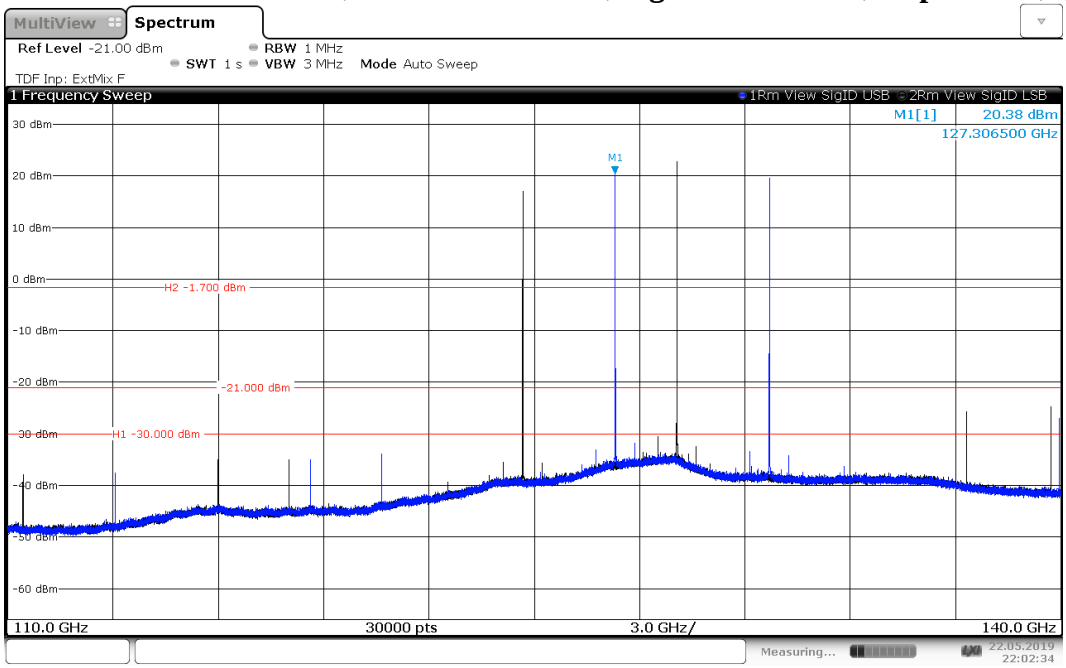
5.56. 110 GHz – 140 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_center



21:58:57 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. -21 dBm is a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

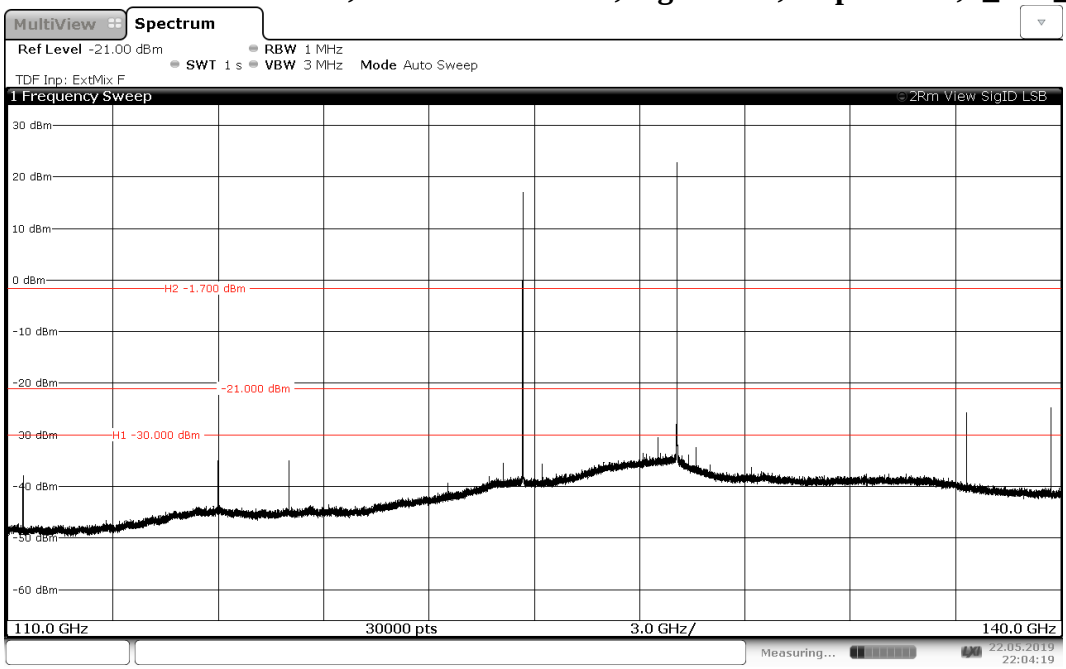
5.57. 110 GHz – 140 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



22:02:34 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

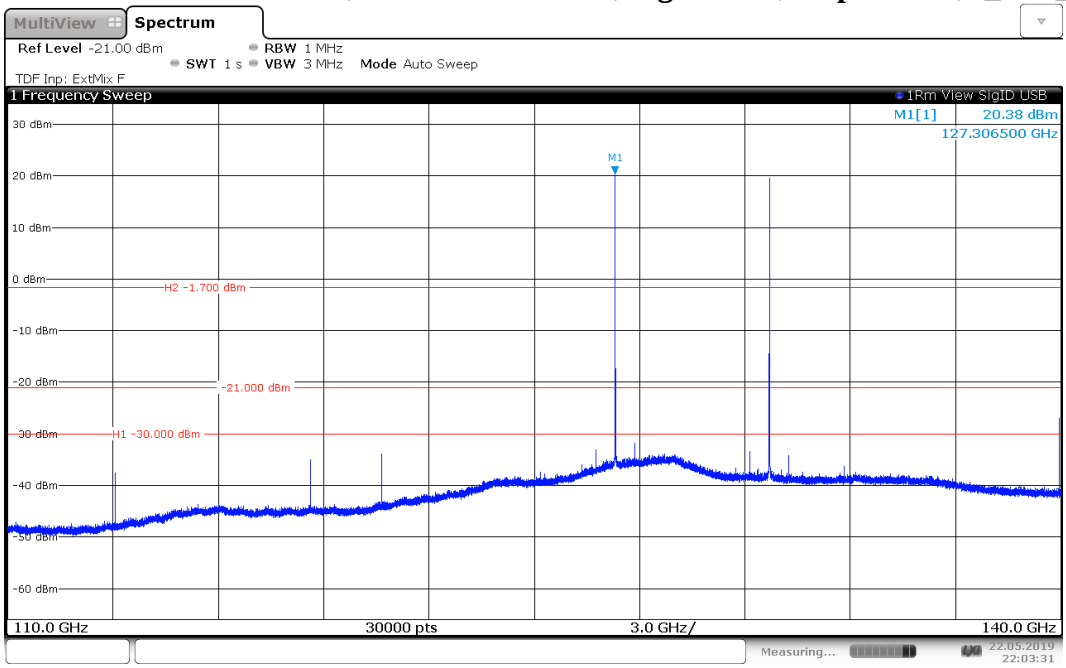
5.58. 110 GHz – 140 GHz, ANT HOR + VER, SigID LSB, all positions, f_CW_high



22:04:19 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

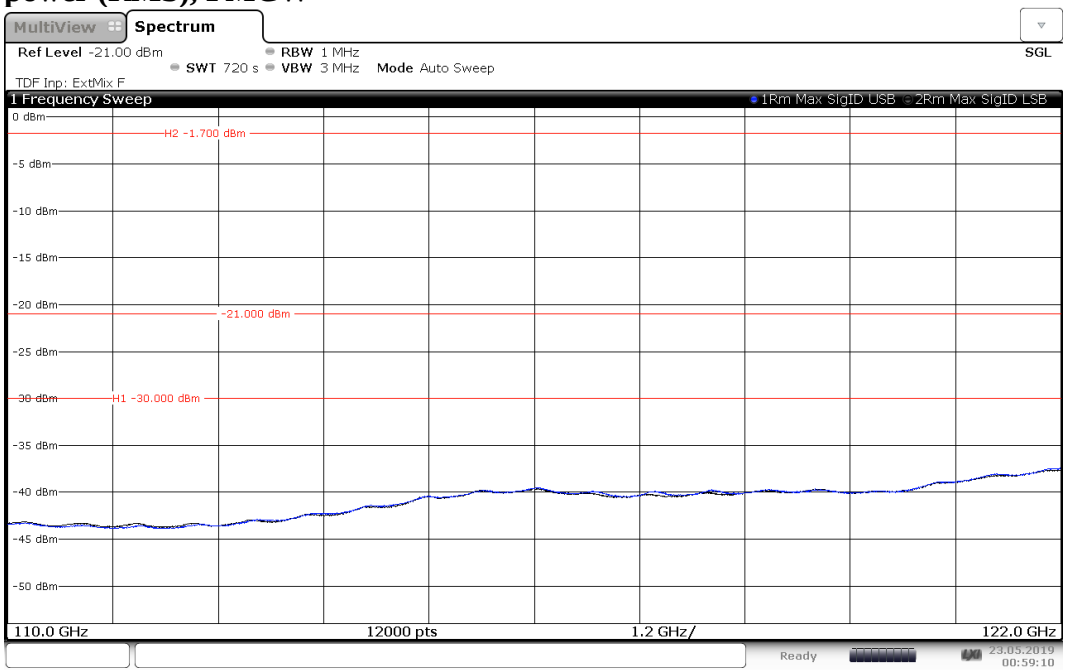
5.59. 110 GHz – 140 GHz, ANT HOR + VER, SigID USB, all positions, f_CW_high



22:03:31 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

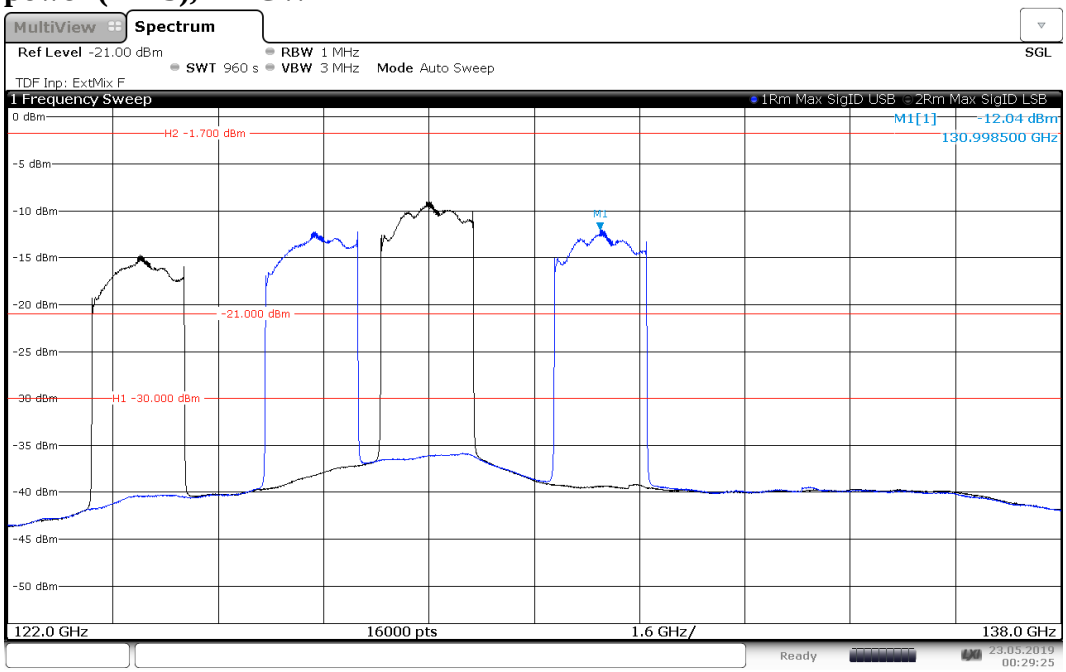
5.60. 110 GHz – 122 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



00:59:11 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

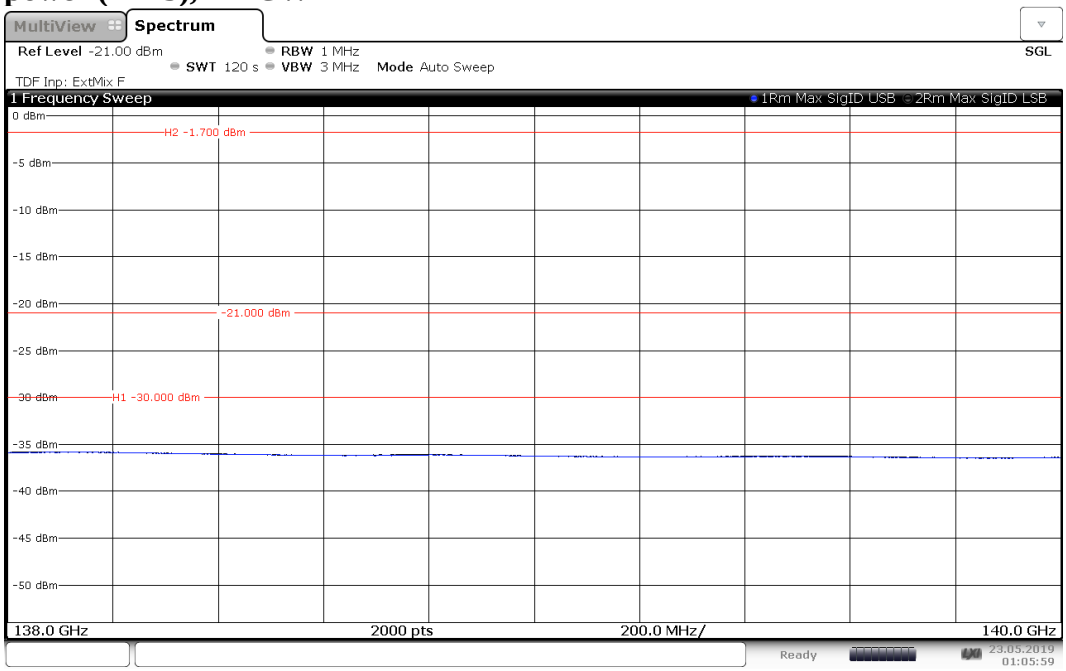
5.61. 122 GHz – 138 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



00:29:25 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED). No real signal is above the limit.

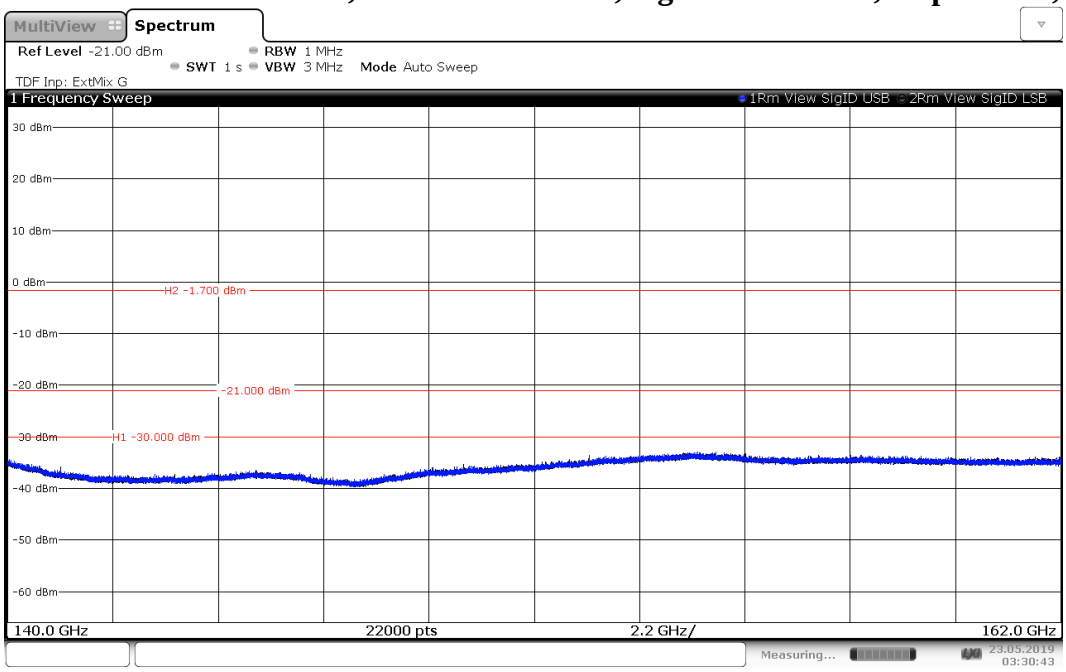
5.62. 138 GHz – 140 GHz, ANT HOR + VER, SigID USB+LSB, position with the highest power (RMS), FMCW



01:05:59 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

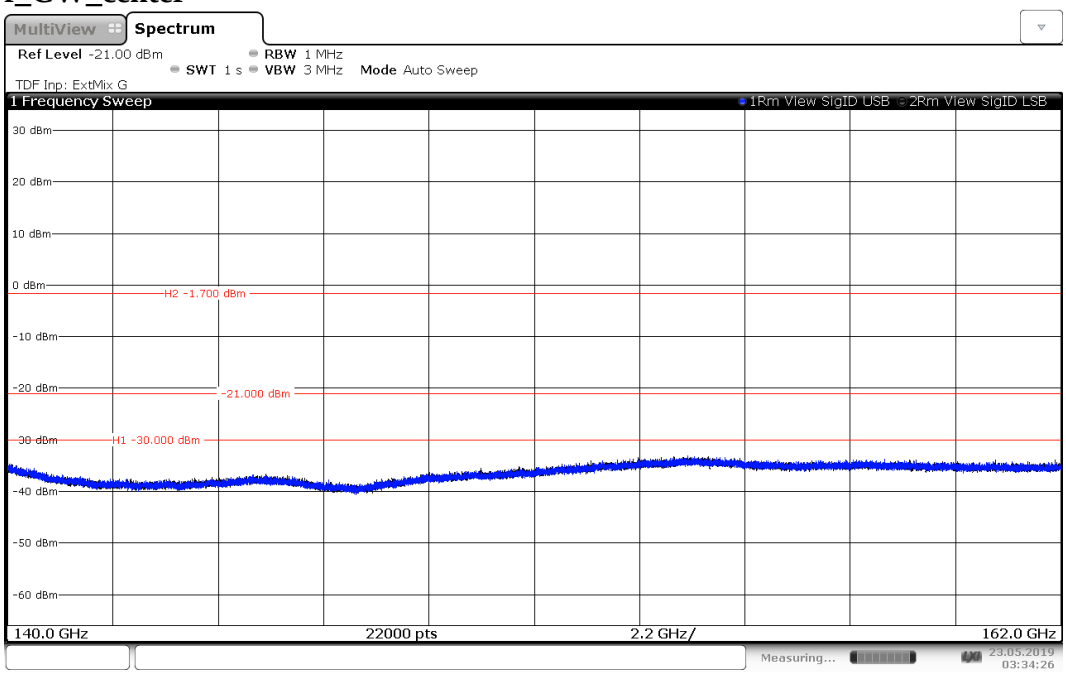
5.63. 140 GHz – 162 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



03:30:44 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

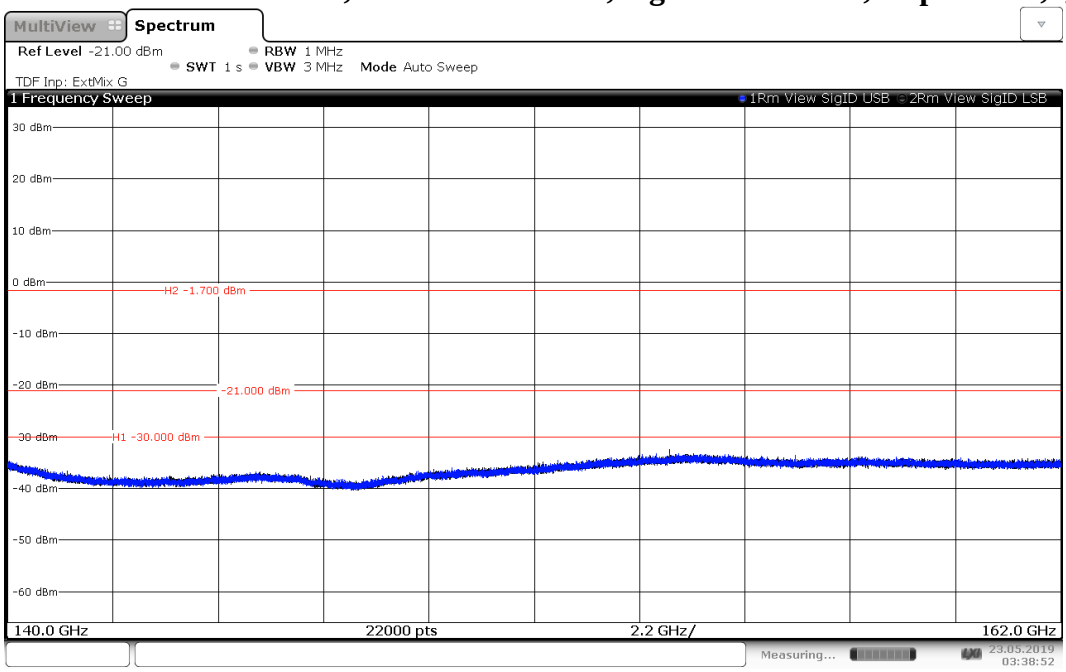
5.64. 140 GHz – 162 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



03:34:26 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

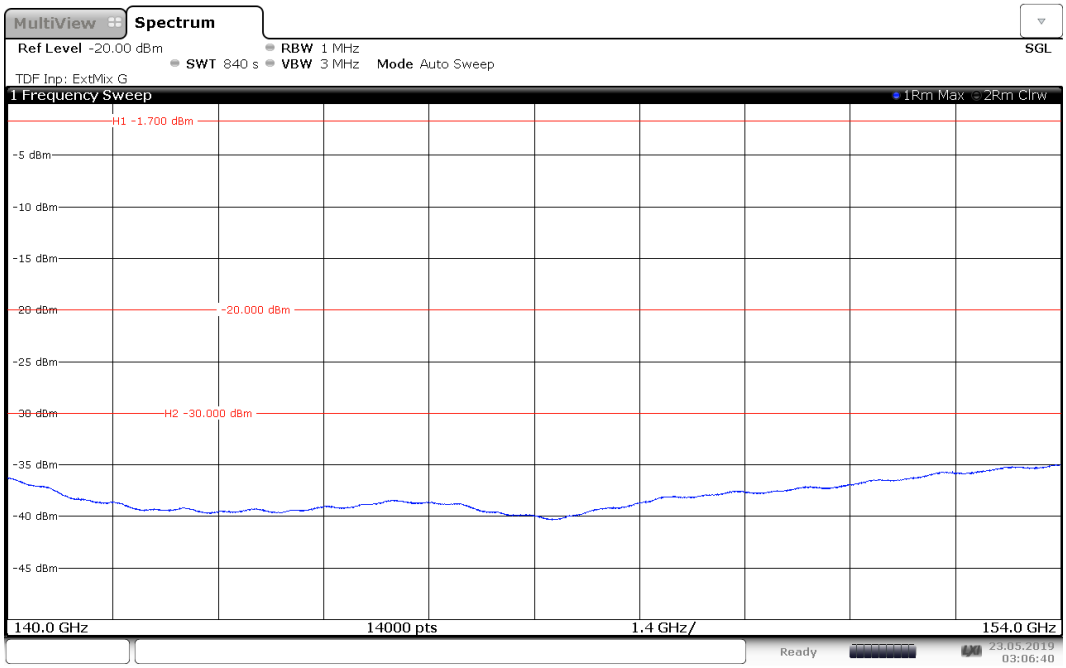
5.65. 140 GHz – 162 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



03:38:52 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 a reference line from the FSW67. Limit is -1.7 dBm (FCC) and -30 dBm (ISED).

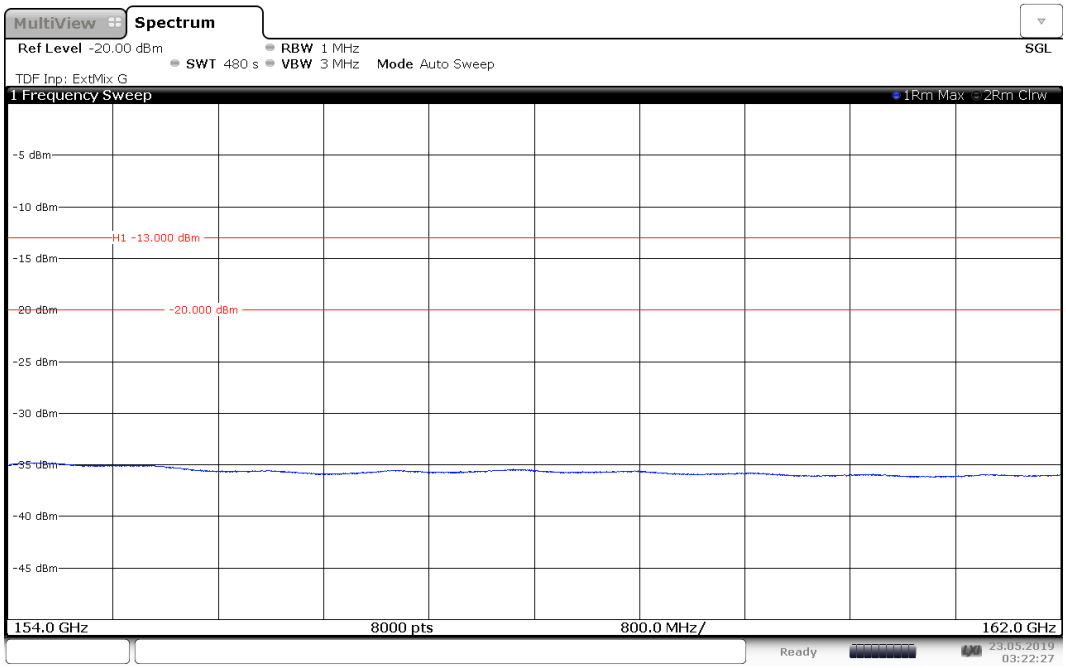
5.66. 140 GHz – 154 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



03:06:40 23.05.2019

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

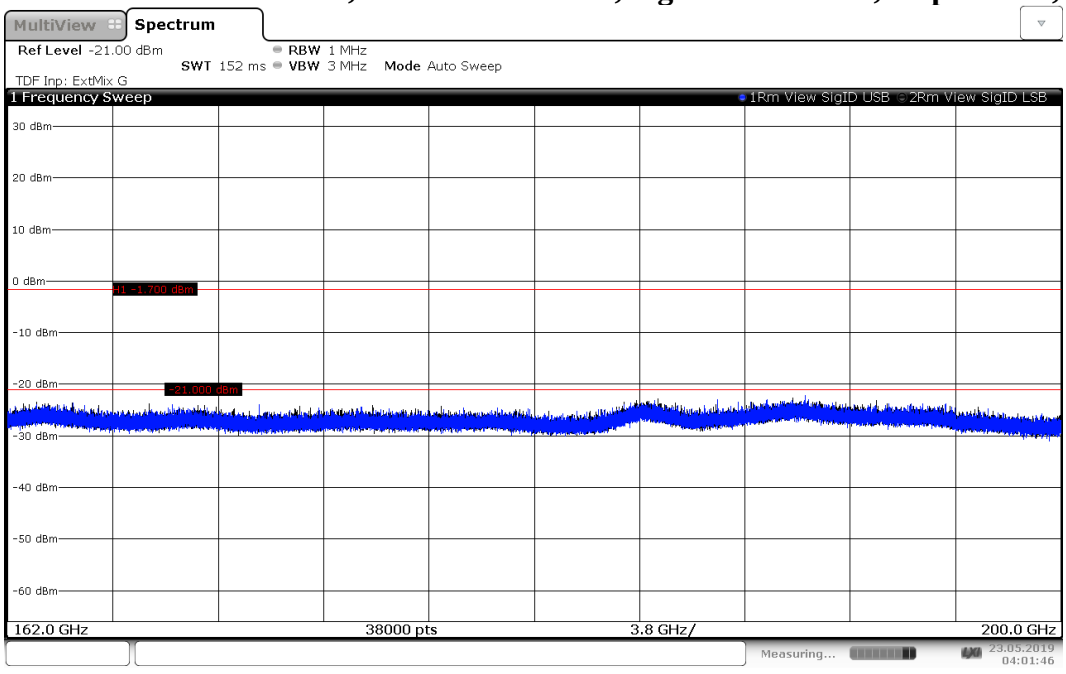
5.67. 154 GHz – 162 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



03:22:27 23.05.2019

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

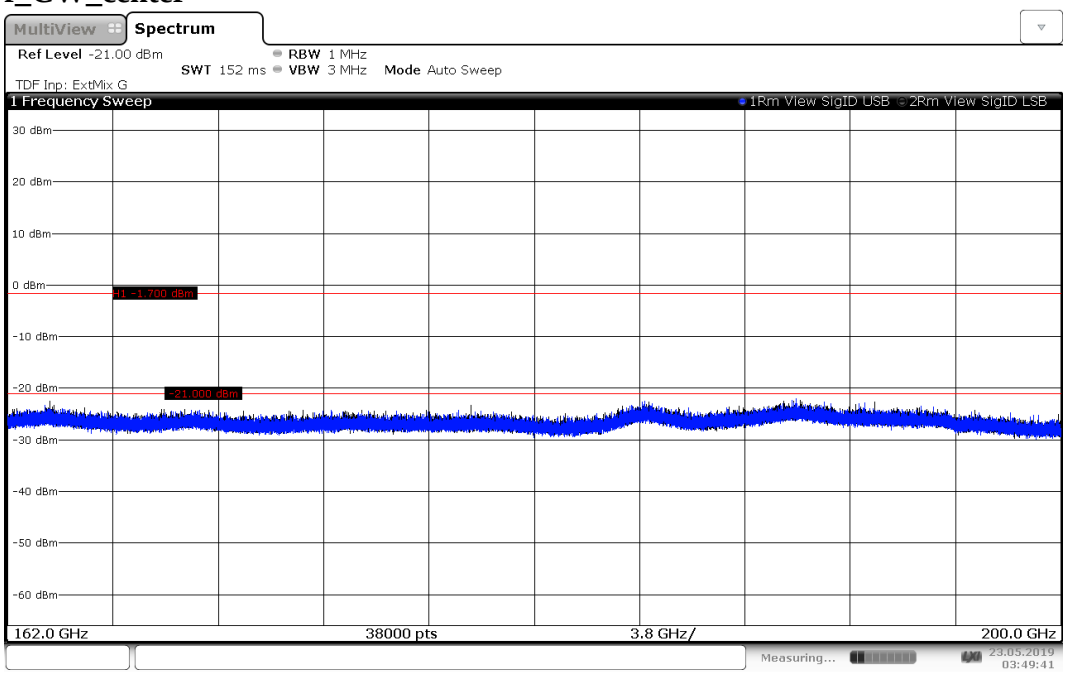
5.68. 162 GHz – 200 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



04:01:46 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 a reference line from the FSW67. Limit is -1.7 dBm.

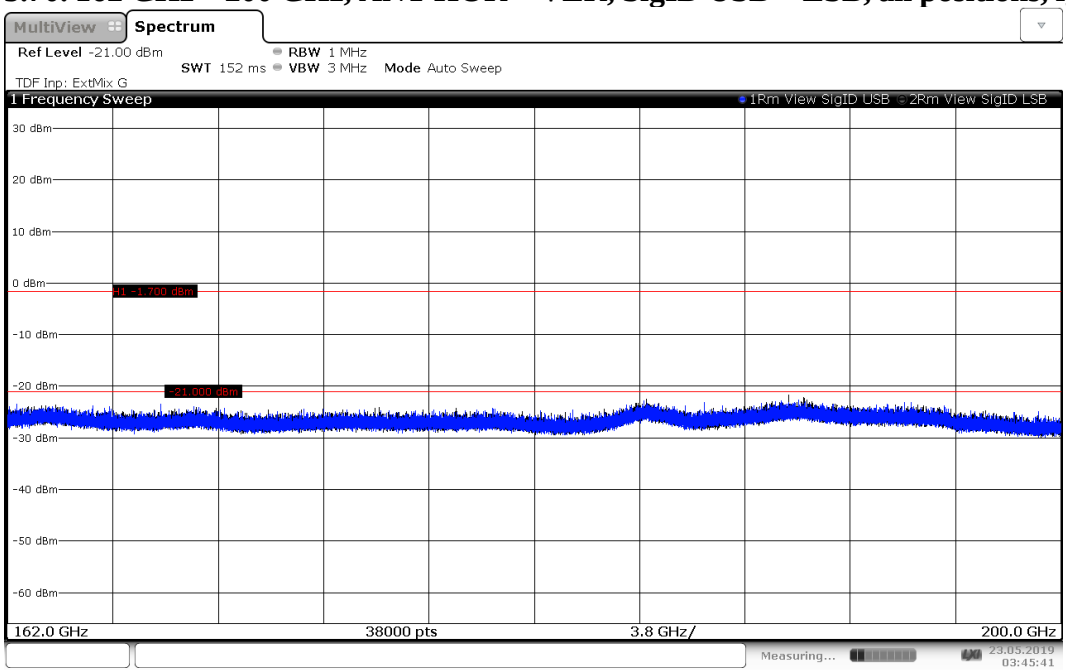
5.69. 162 GHz – 200 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



03:49:42 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 a reference line from the FSW67. Limit is -1.7 dBm.

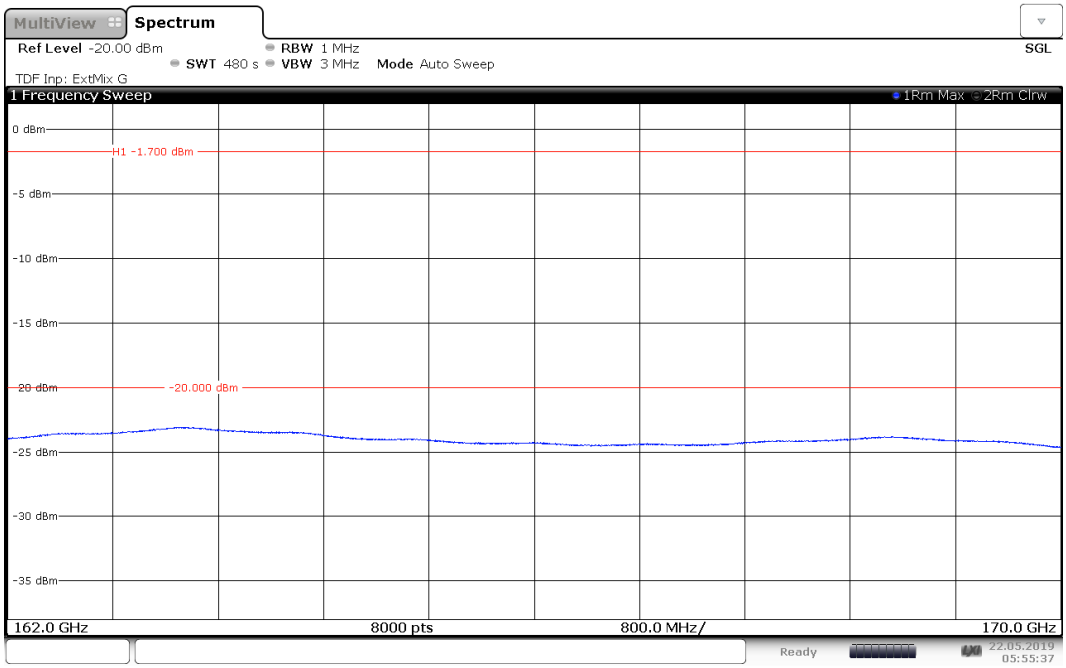
5.70. 162 GHz – 200 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



03:45:41 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 a reference line from the FSW67. Limit is -1.7 dBm.

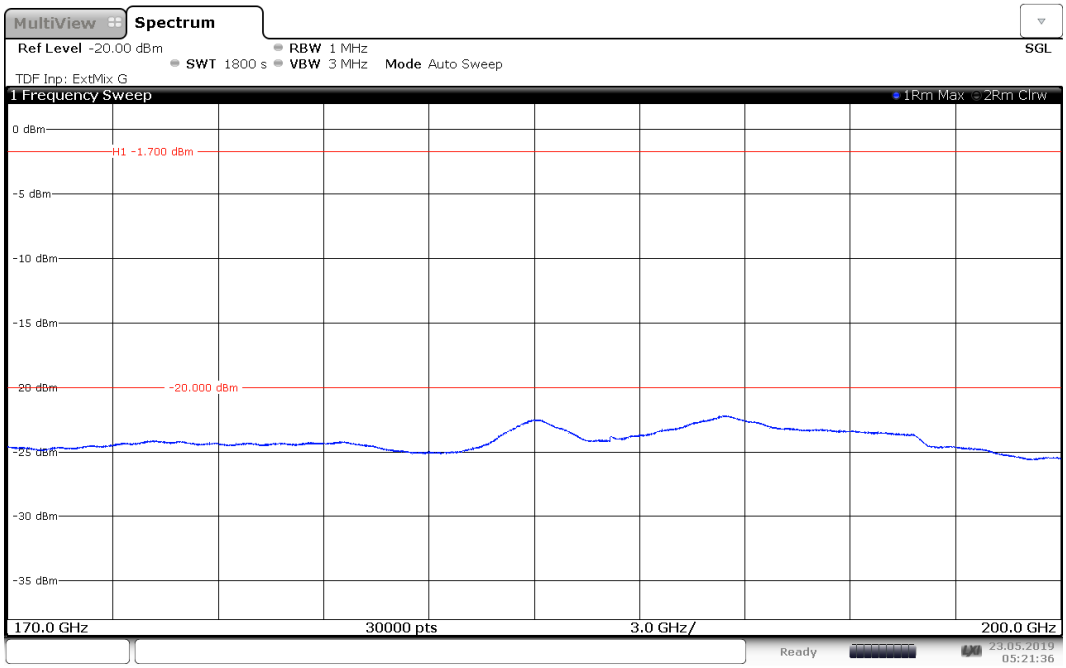
5.71. 162 GHz – 170 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



05:55:38 22.05.2019

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

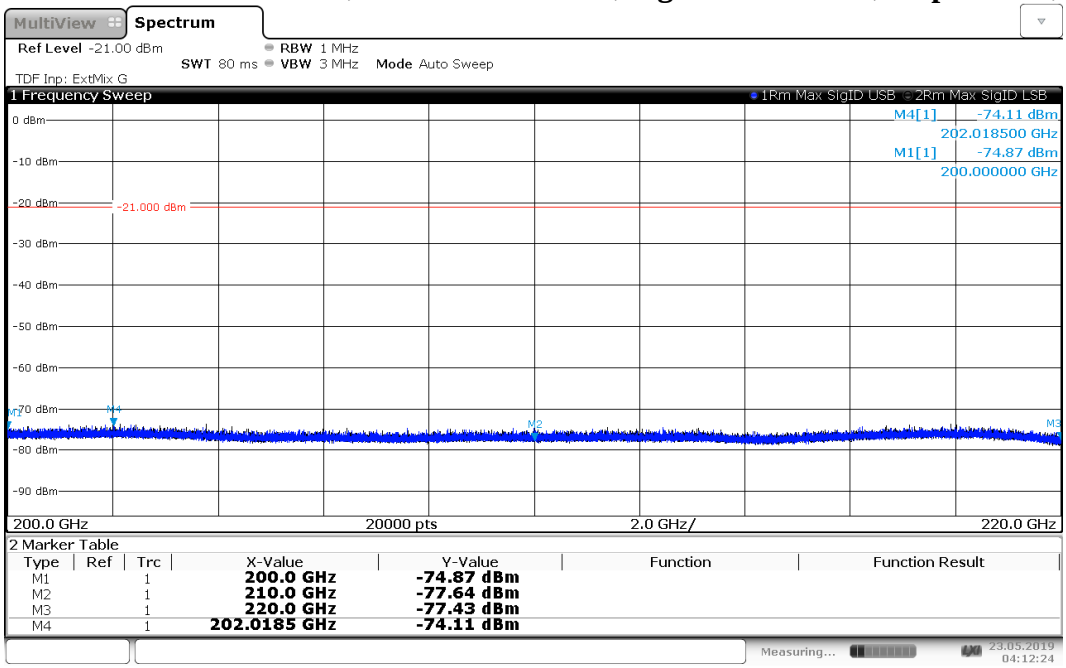
5.72. 170 GHz – 200 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



05:21:37 23.05.2019

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

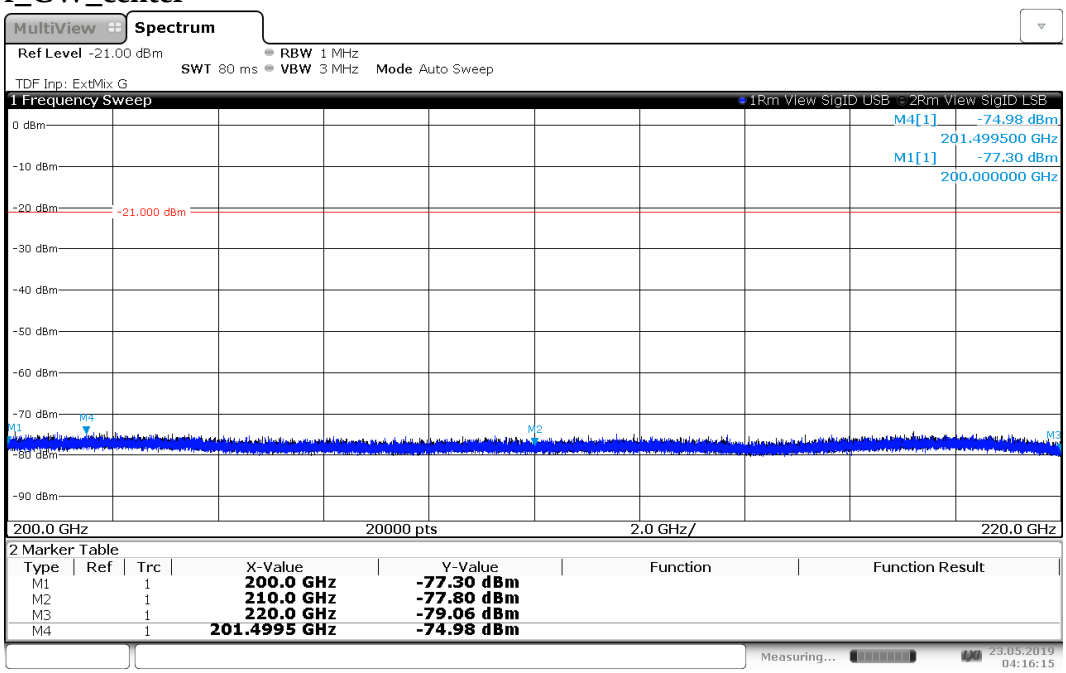
5.73. 200 GHz – 220 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



04:12:24 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 a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

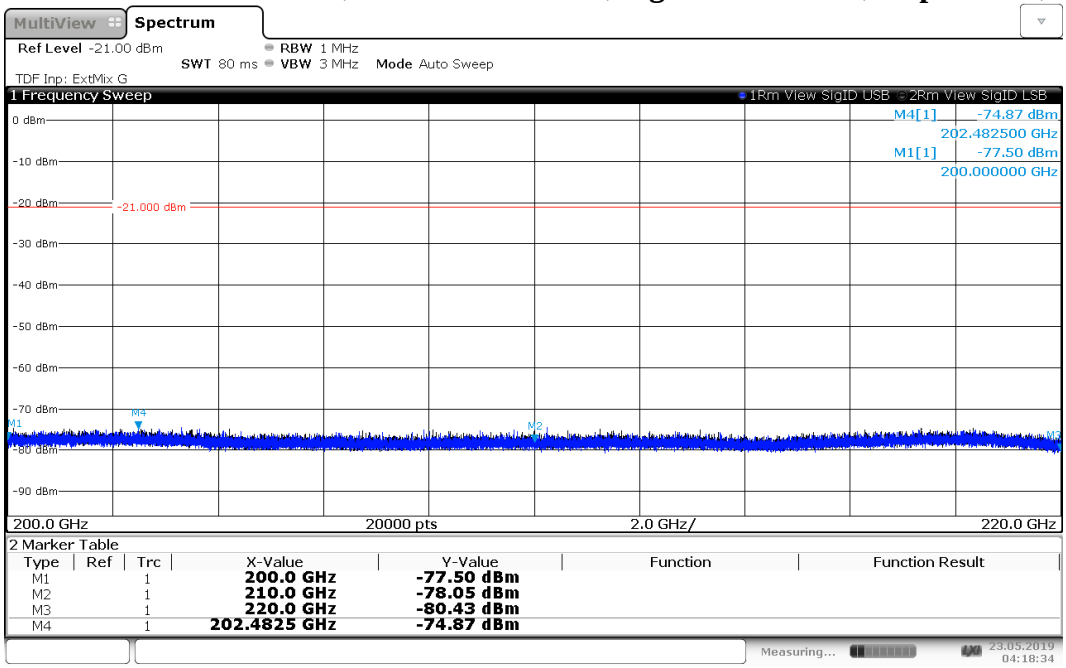
5.74. 200 GHz – 220 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



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

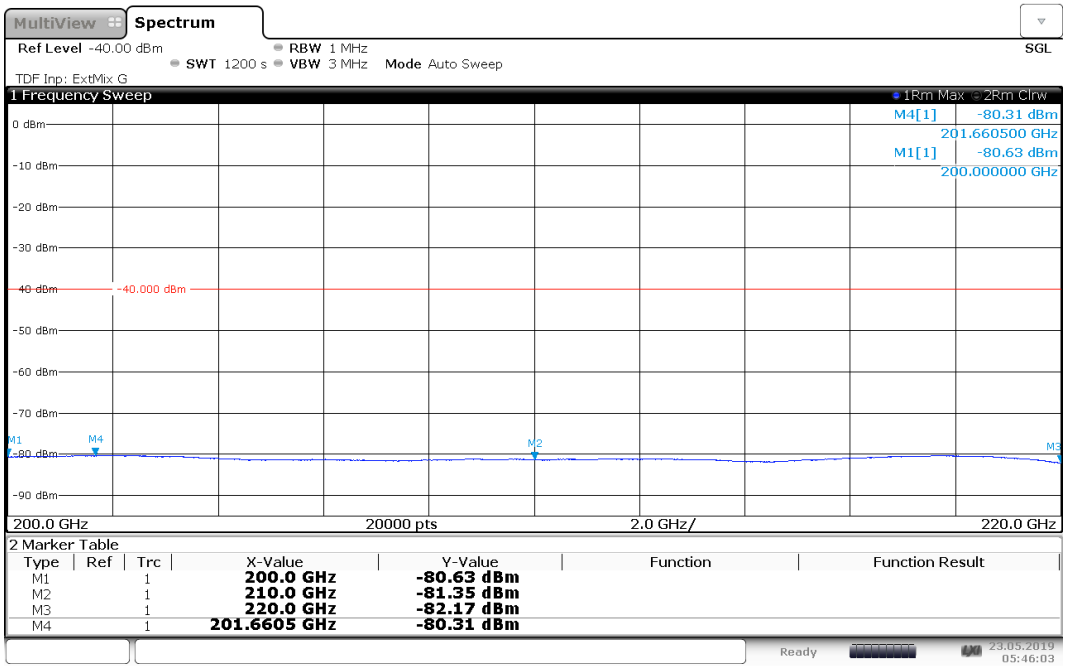
5.75. 200 GHz – 220 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



04:18:34 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 a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

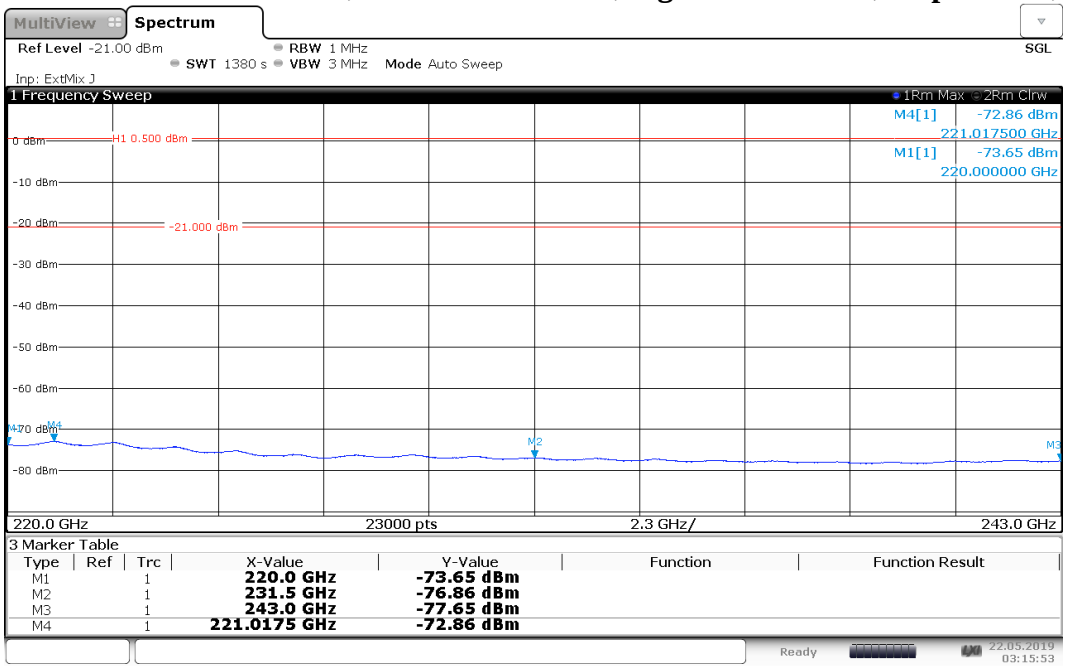
5.76. 200 GHz – 220 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW



05:46:04 23.05.2019

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

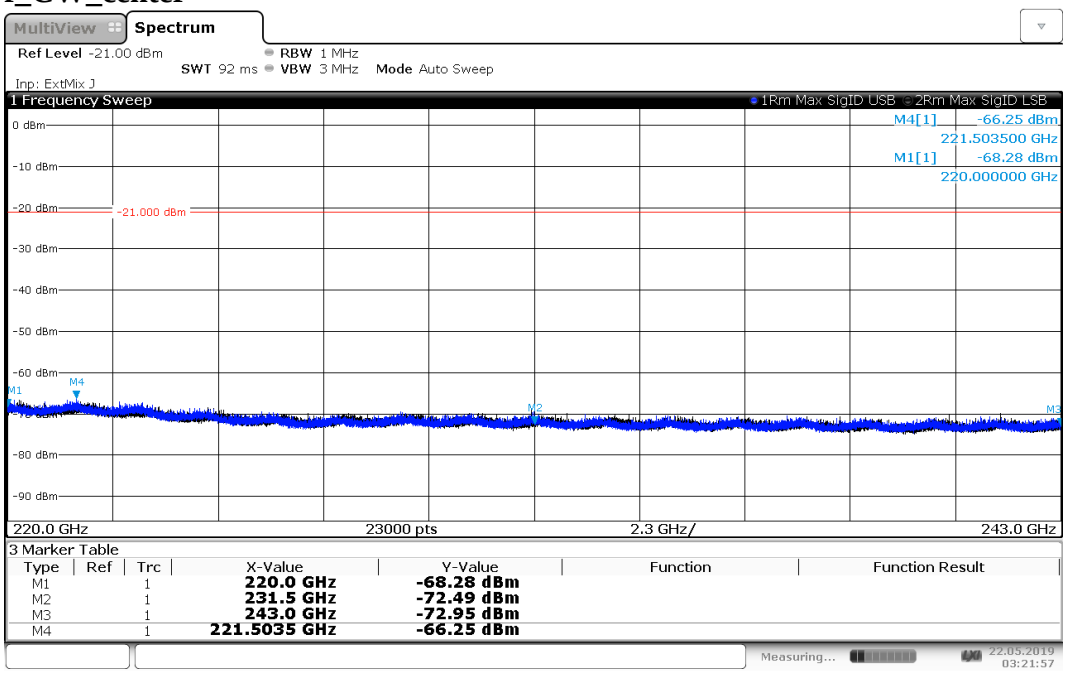
5.77. 220 GHz – 243 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_low



03:15:53 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 a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

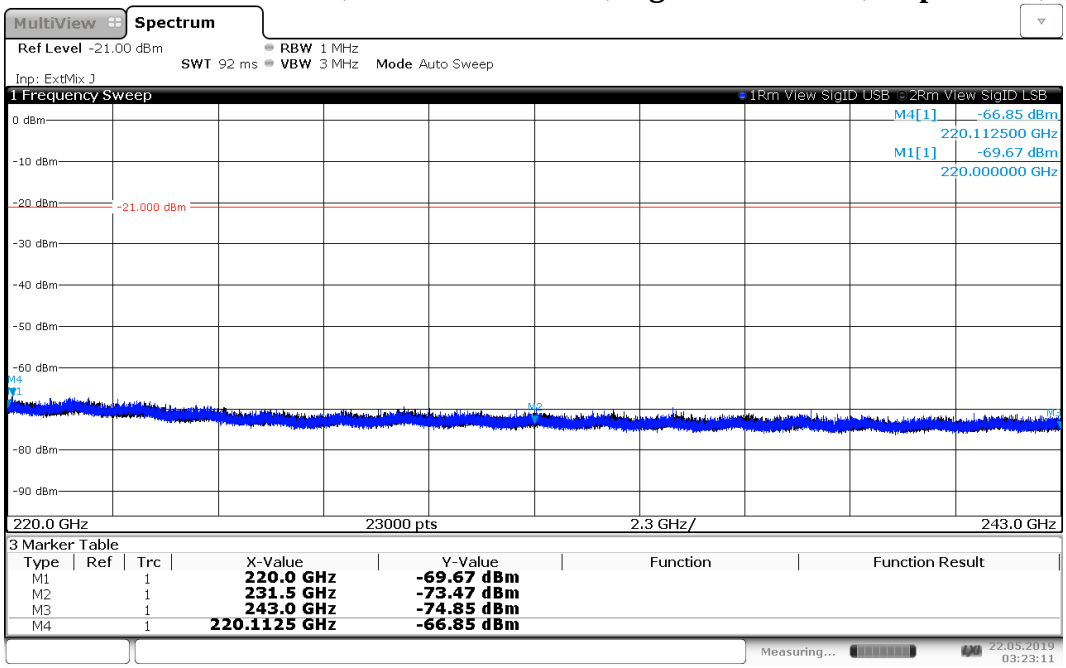
5.78. 220 GHz – 243 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_center



03:21:58 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 a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

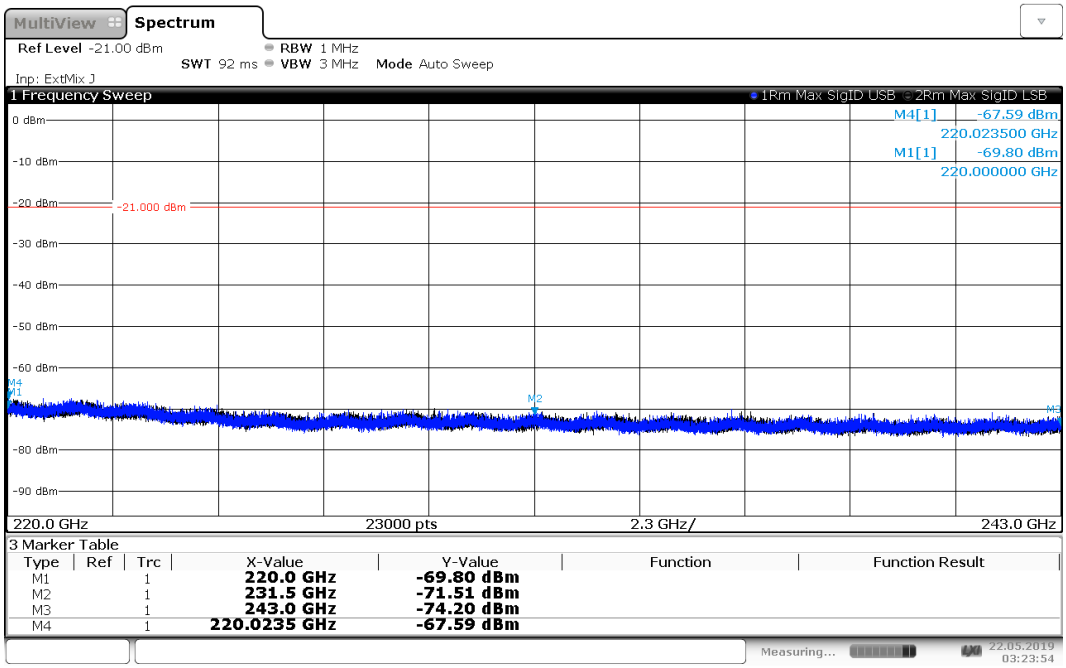
5.79. 220 GHz – 243 GHz, ANT HOR + VER, SigID USB + LSB, all positions, f_CW_high



03:23:12 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 a reference line from the FSW67. Limit is 0.5 dBm (see calculations in subsection 5.8.6).

5.80. 220 GHz – 243 GHz, ANT HOR + VER, position with the highest power (RMS), FMCW

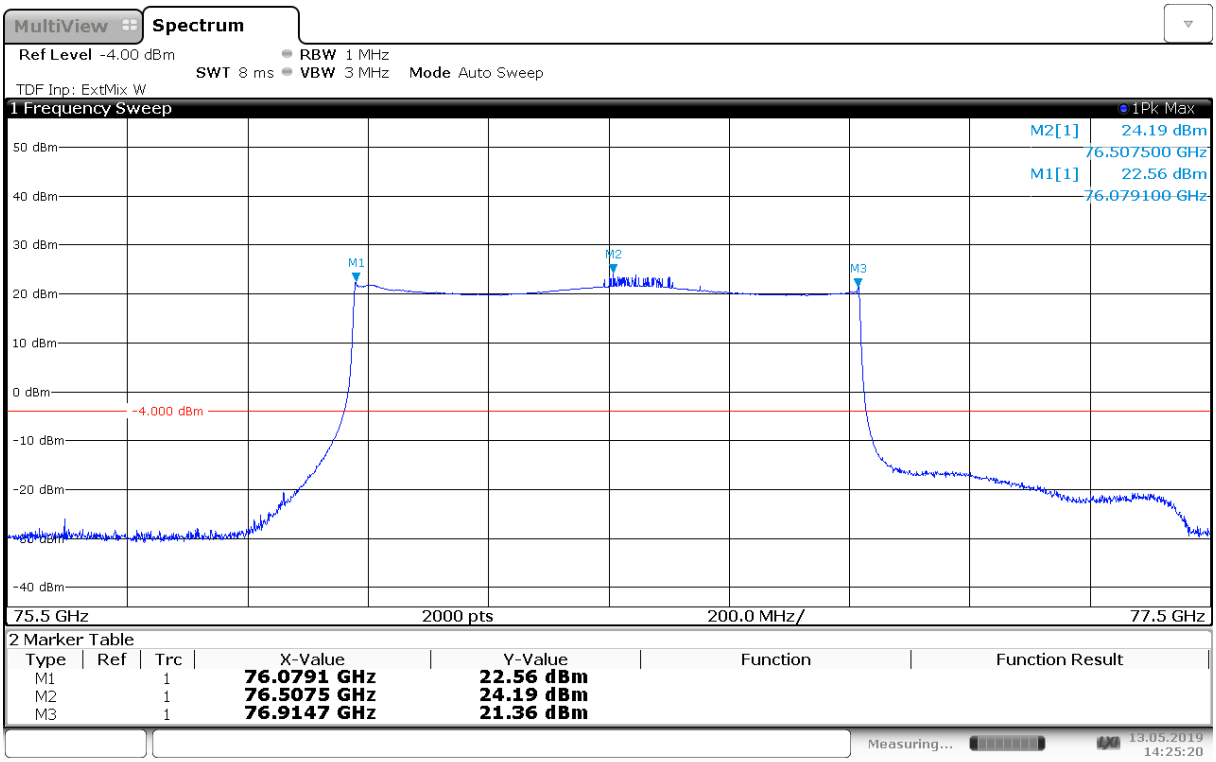


03:23:54 22.05.2019

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

6. Frequency stability

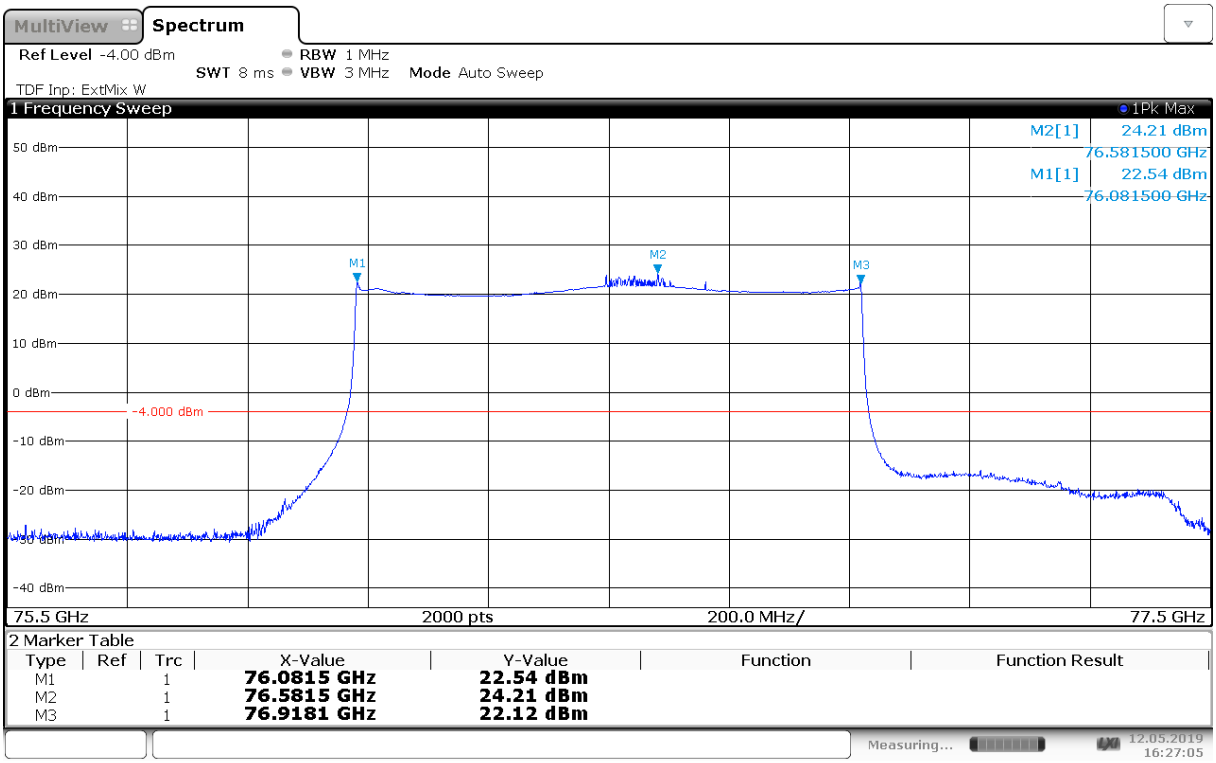
6.1. T_{nom}/V_{nom}



14:25:21 13.05.2019

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

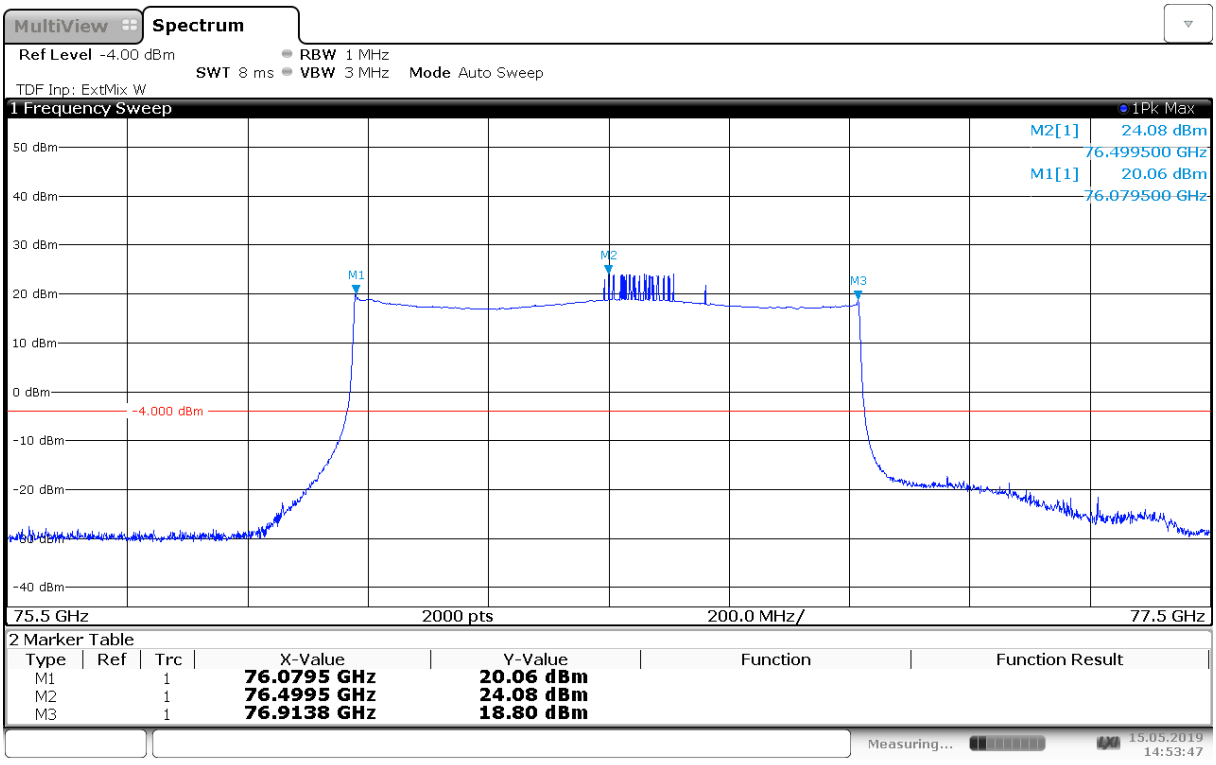
6.2. T_{min}/V_{nom}



16:27:05 12.05.2019

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

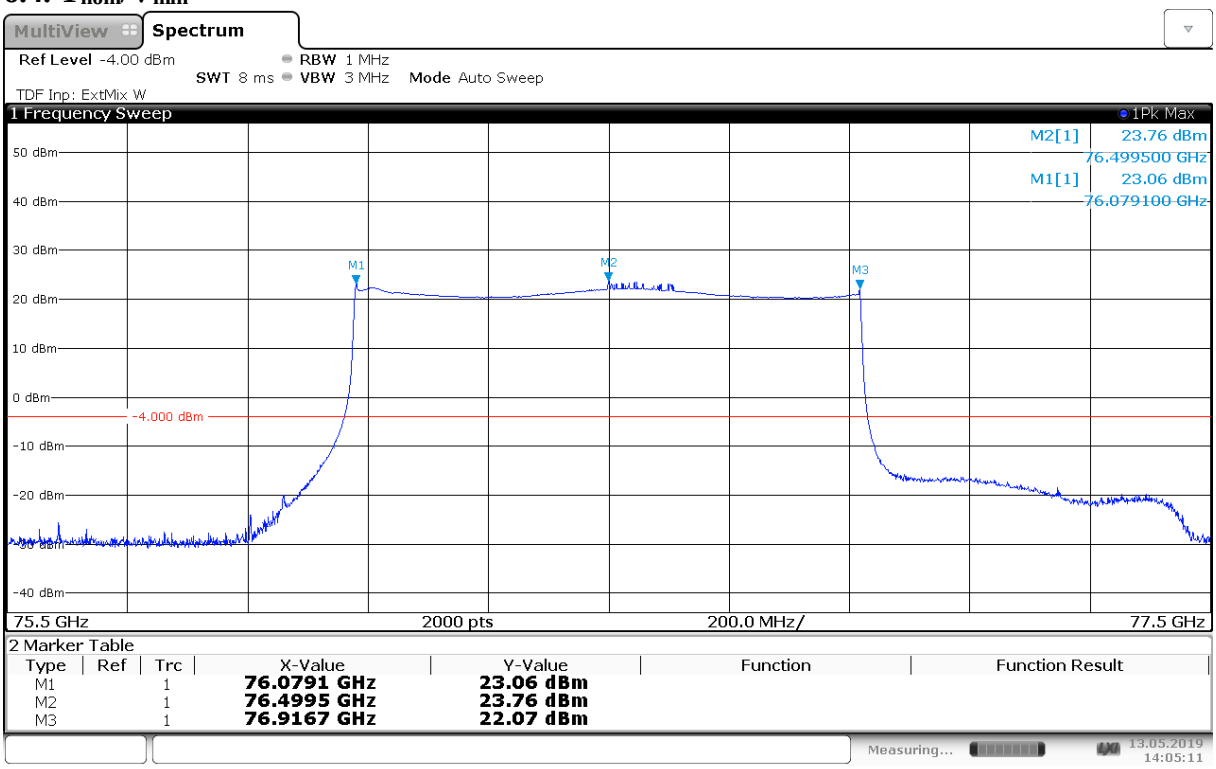
6.3. T_{max}/V_{nom}



14:53:47 15.05.2019

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

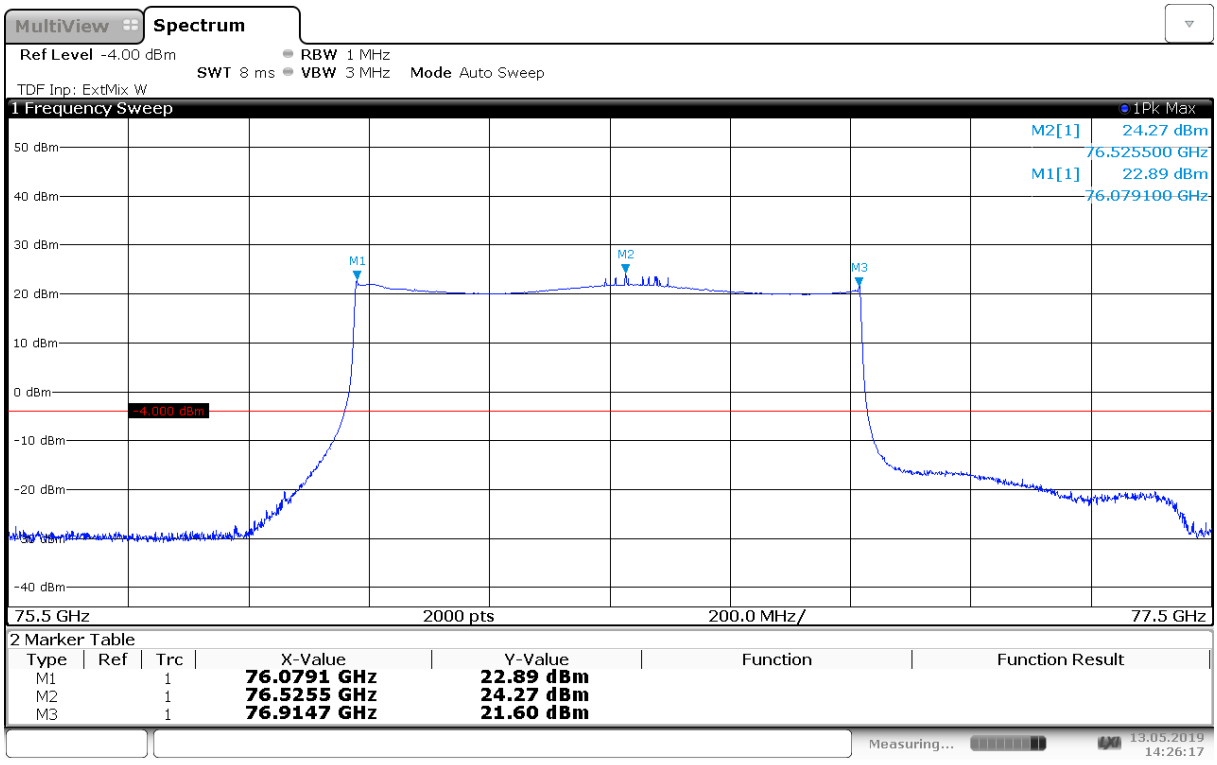
6.4. T_{nom}/V_{min}



14:05:12 13.05.2019

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

6.5. T_{nom}/V_{max}



14:26:17 13.05.2019

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