

	    CERTIFICATE 2518.08 SMM 825																										
MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia Sdn. Bhd. Plot 2A Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia.	FCC / ISED TEST REPORT Report Revision : Rev.A																										
<table><tr><td>Date/s Tested</td><td>: 20-June-2023 - 23-June-2023</td></tr><tr><td>Report Issue Date</td><td>: 18-August-2023</td></tr><tr><td>Manufacturer/Location</td><td>: Avigilon Corporation, Box 378, 101-1001 W. Broadway Vancouver, BC, V6H 4E4, Canada.</td></tr><tr><td>Requestor</td><td>: HOWKINS, SIMON</td></tr><tr><td>Product Type</td><td>: CAMERA</td></tr><tr><td>Certified Model Number</td><td>: ACBUSRNE</td></tr><tr><td>Frequency Band</td><td>: 902-928MHz</td></tr><tr><td>Maximum Field Strength at 3 meters</td><td>: 93.27 dBuV/m</td></tr><tr><td>Applicant Name</td><td>: Avigilon Corporation</td></tr><tr><td>Applicant Address</td><td>: Box 378, 101-1001 W. Broadway Vancouver, BC, V6H 4E4, Canada</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr><tr><td>ISED Registrations</td><td>: MY0001</td></tr></table> The equipment was tested accordance to the requirement listed below: <table><tr><td>FCC Part 15.249 RSS 210 Issue 10, Annex B.10 RSS-Gen Issue 5</td><td>PASS</td></tr></table>		Date/s Tested	: 20-June-2023 - 23-June-2023	Report Issue Date	: 18-August-2023	Manufacturer/Location	: Avigilon Corporation, Box 378, 101-1001 W. Broadway Vancouver, BC, V6H 4E4, Canada.	Requestor	: HOWKINS, SIMON	Product Type	: CAMERA	Certified Model Number	: ACBUSRNE	Frequency Band	: 902-928MHz	Maximum Field Strength at 3 meters	: 93.27 dBuV/m	Applicant Name	: Avigilon Corporation	Applicant Address	: Box 378, 101-1001 W. Broadway Vancouver, BC, V6H 4E4, Canada	FCC Registrations	: 461337	ISED Registrations	: MY0001	FCC Part 15.249 RSS 210 Issue 10, Annex B.10 RSS-Gen Issue 5	PASS
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Prepared & Approved Signatory :  MAHESHWARAN A/L RAJAGOPAL Responsible Engineer																											

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REVISION HISTORY

Revision History	Description	Date	Originator
Rev. A	Initial Report	18-August-2023	Maheshvaran A/L Rajagopal

1.0.General Information

EUT Description:

Technologies	Z-Wave
TX Frequency range	902MHz – 928MHz
Modulation Type	CH0: 2GFSK & 100 kbit/s CH1: 2FSK & 40 kbit/s CH2: 2FSK & 9.6 kbit/s
Antenna Type	Flexible Printed Circuit (FPC)
Peak Antenna Gain	1.4 dBi

1.1.Channel number and frequency information:

Channel	Frequency (MHz)
0	916.00
1	908.40
2	908.42

General Description of Applied Standards

The EUT is an RF Product. The EUT is a security camera that will be used in fixed locations. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

FCC 47 CFR FCC Part 15.249

ANSI C63.10-2013

FCC 47 CFR FCC Part 1.1310

RSS-210 Issue 10, Annex B.10

RSS-102 Issue 5

RSS-Gen Issue 5

Deviation from standard

Not applicable as no deviation from standard test method

Modifications to EUT

No modifications were done to the device.

2.0. Summary of Test Results

FCC Clause	IC Clause	Test Item	Result
15.249(a)	RSS-210 Annex B.10(a)	Maximum Radiated Output Power - Fundamental Frequencies	Pass
-	RSS-GEN 6.7	99% Occupied Bandwidth	Pass
§15.215(c)	-	20 dB Bandwidth	Pass
§15.249(a), §15.205, §15.209	RSS-210 Annex B.10(a)&(b)	Radiated Emissions 9 kHz to 13.2GHz	Pass
§15.207(a)	RSS-GEN 8.8	Conducted Emissions on Power Supply Lines	Pass

3.0. Measurement Uncertainty

Measurement	Frequency	Expanded Uncertainty (k=1.96) (±dB)
AC Power Line Conducted Spurious Emission	150kHz ~ 30MHz	3.48
Radiated Emissions up to 1 GHz	30MHz ~ 1000MHz	5.88
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.84
	18GHz ~ 40GHz	6.02
Conducted Spurious Emissions	9kHz ~ 12.75GHz	2.82

4.0.Equipment List

DESCRIPTION	MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
Radiated Emission:				
DRG HORN FREQ.	SAS-571	1143	08-Mar-23	08-Mar-25
DRG HORN FREQ.	SAS-571	720	18-Apr-23	18-Apr-25
DC Power Supply	N7976A	MY53410110	30-Jun-22	30-Jun-23
SIGNAL GENERATOR	SMB 100A	182511	04-Jun-21	04-Jun-24
EMI TEST RECEIVER	ESW44	101731	05-Oct-22	05-Oct-23
5m SEMI-ANECHOIC CHAMBER	S800-HX	J2308	No Cal. Req'd	No Cal. Req'd
BILOG ANTENNA	CBL6112D	30991	05-Jan-23	05-Jan-24
BILOG ANTENNA	CBL6112D	55546	23-Jun-22	23-Jun-23
DATA LOGGER THERMOHYGROMETER	SDL500	A.016785	23-Jun-22	23-Jun-23
SYSTEM CONTROLLER	SC104V	050806-1	No Cal. Req'd	No Cal. Req'd
TURNTABLE FLUSH MOUNT 2M	FM2011	NA	No Cal. Req'd	No Cal. Req'd
ANTENNA POSITIONING TOWER	TLT2	NA	No Cal. Req'd	No Cal. Req'd
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	18-Aug-22	18-Aug-23
PREAMPLIFIER 18-40GHz	Miteq Hi Gain Sucoflex	002	No Cal. Req'd	No Cal. Req'd
PREAMPLIFIER	PAM-0118P	361	11-Sep-20	11-Sep-23
LOOP ANTENNA	6502	00208416	12-Oct-22	12-Oct-23
NOTCH FILTER	BRC50722	G034	No Cal. Req'd	No Cal. Req'd
TEST SOFTWARE	EMC_FCC_IC_BLUETOOTH_RE_TEST			
VERSION	EMC_FCC_RE_v1.6.5			
Conducted Emission:				
DATA LOGGER	DSB	16344143	21-Jun-2023	23-Jun-2024
V-NETWORK 2-LINE	ENV216	101268	15-Aug-22	15-Aug-23
EMI TEST RECEIVER	ESCI	100225	9-Aug-2022	9-Aug-2023
PROGRAMMABLE AC SOURCE	61604	616040003502	12-Dec-2022	12-Dec-2023
TEST SOFTWARE	EMC32			
VERSION	Ver. 10.60.10			

5.0. Transmitter Test Parameters

5.1. Maximum Radiated Output Power - Fundamental Frequencies

5.1.1. Test Limits:

Frequency range [MHz]	Limit [mV/m]	Limit [dB μ V/m]	Detector
902 – 928	50	94	Quasi-peak
2400 – 2483.5	50	94	Average
5725 – 5875	50	94	Average
24000 – 24500	250	108	Average

5.1.2. Test Data:

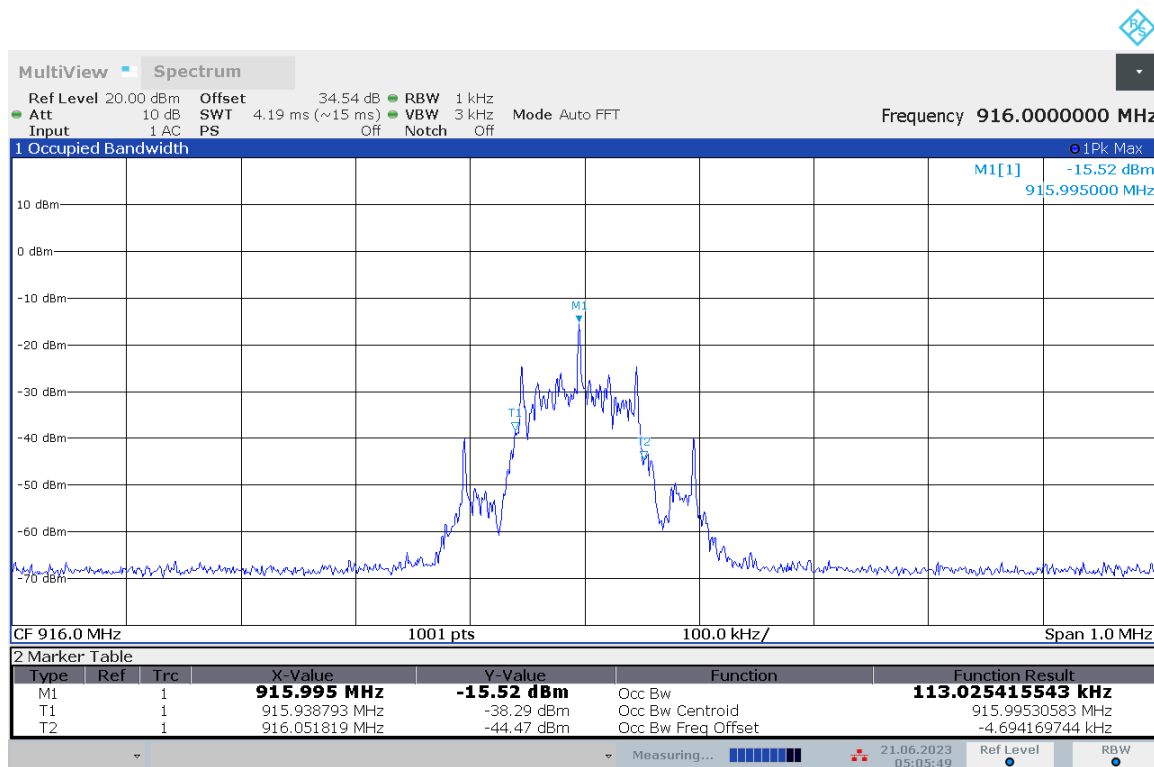
Channel	Radiated Power/QP [dB μ V/m]	QP Limit [dB μ V/m]	Margin [dB]	Result
CH0	93.24	94.00	0.76	PASS
CH1	93.01	94.00	0.99	PASS
CH2	93.27	94.00	0.73	PASS

5.2.99% Occupied Bandwidth

5.2.1. Test Data:

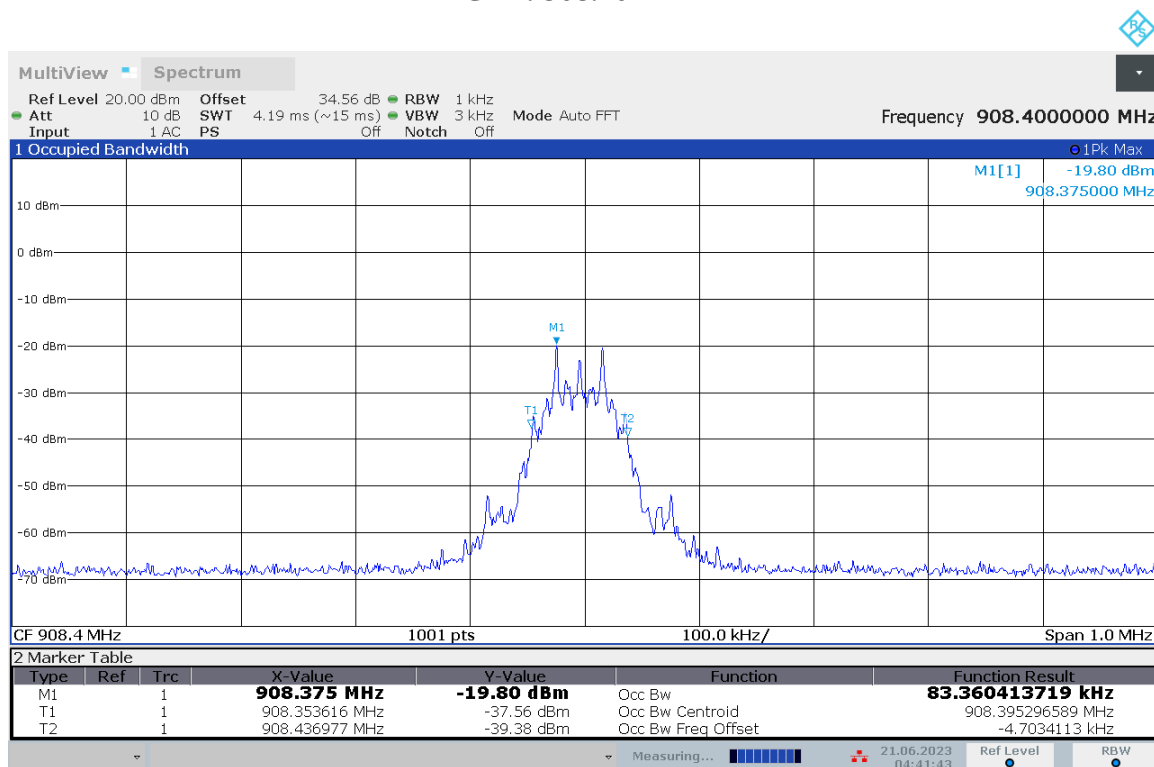
Channel	Limit	99 % BW [kHz]	Result
CH0	-	113.03	PASS
CH1	-	83.36	PASS
CH2	-	63.23	PASS

CH0: 916.00 MHz



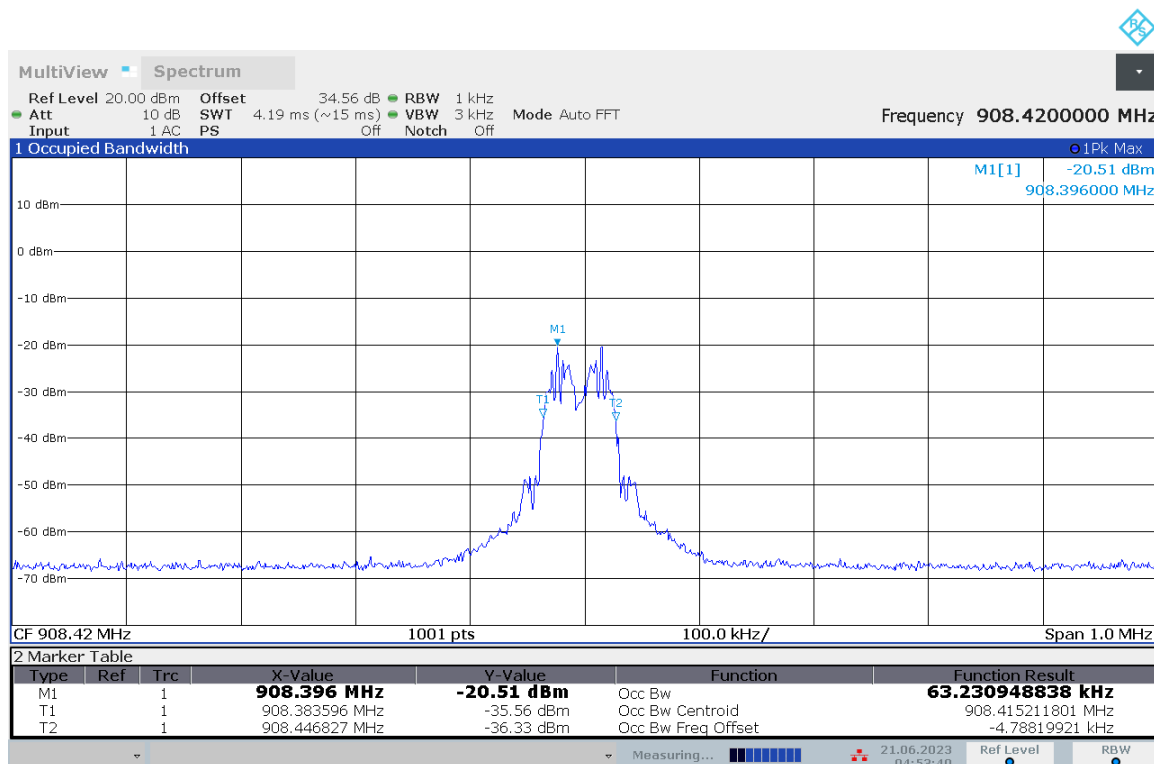
05:05:50 21.06.2023

CH1: 908.40 MHz



04:41:44 21.06.2023

CH2: 908.42 MHz



04:53:41 21.06.2023

5.3. 20 dB Bandwidth and Band Edge

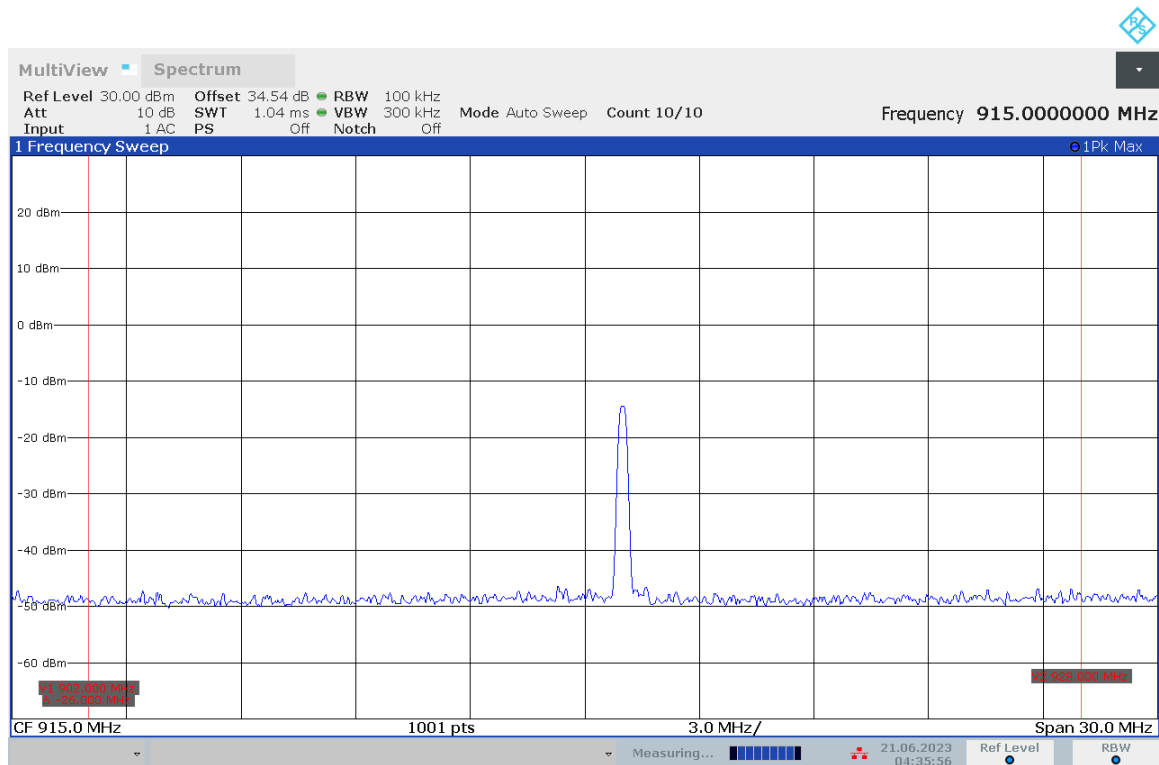
5.3.1. Test Data

Channel	Limit	20dB BW [kHz]	Result
CH0	-	111.90	PASS
CH1	-	86.90	PASS
CH2	-	67.90	PASS

CH0: 916.00 MHz



04:28:58 21.06.2023

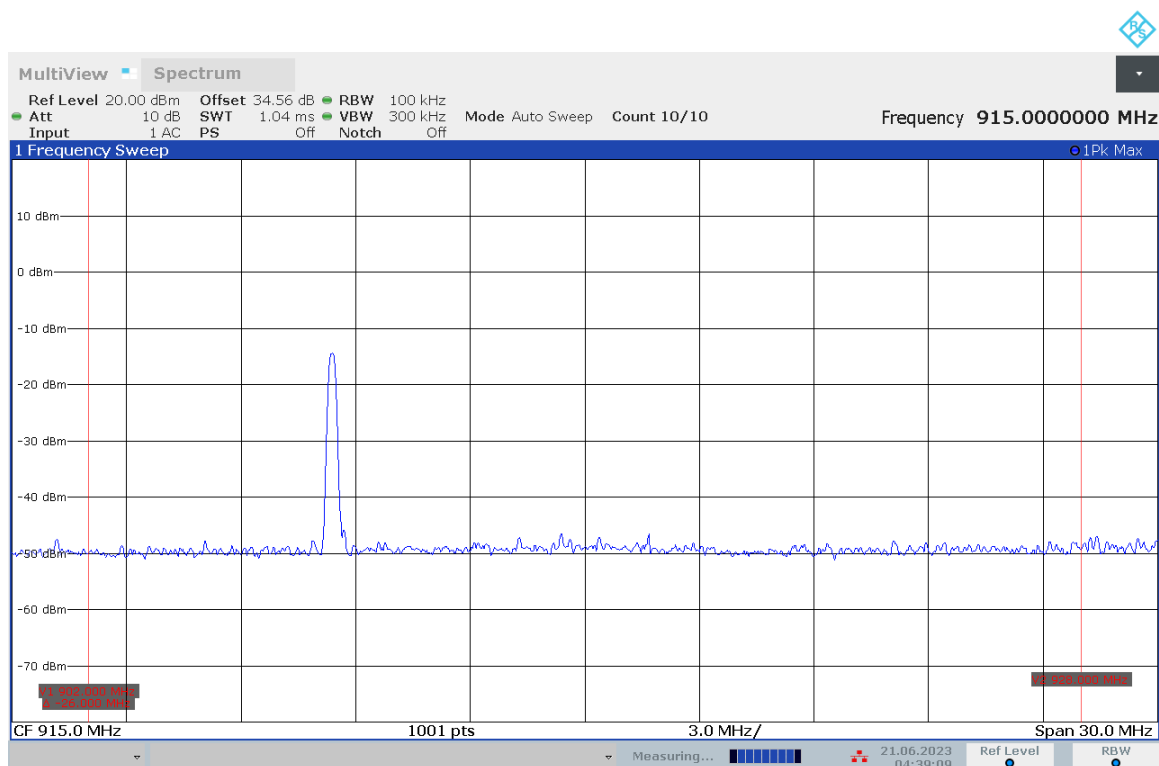


04:35:57 21.06.2023

CH1: 908.40 MHz

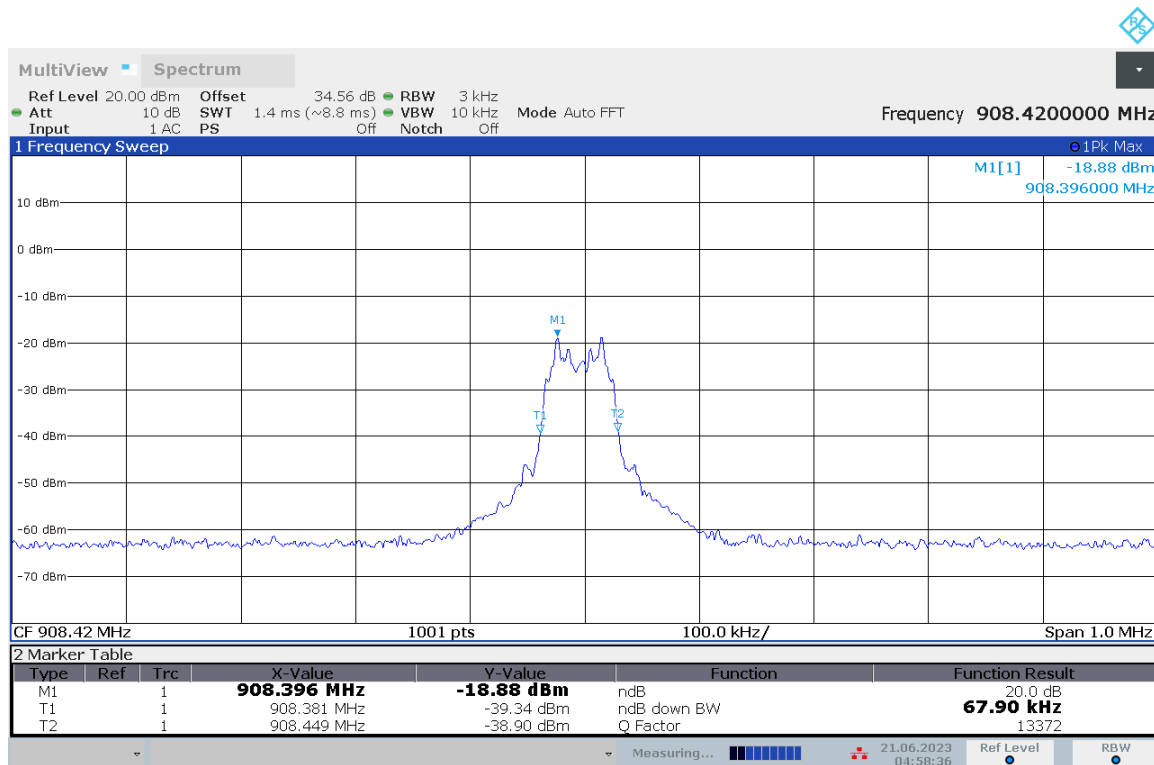


04:45:19 21.06.2023

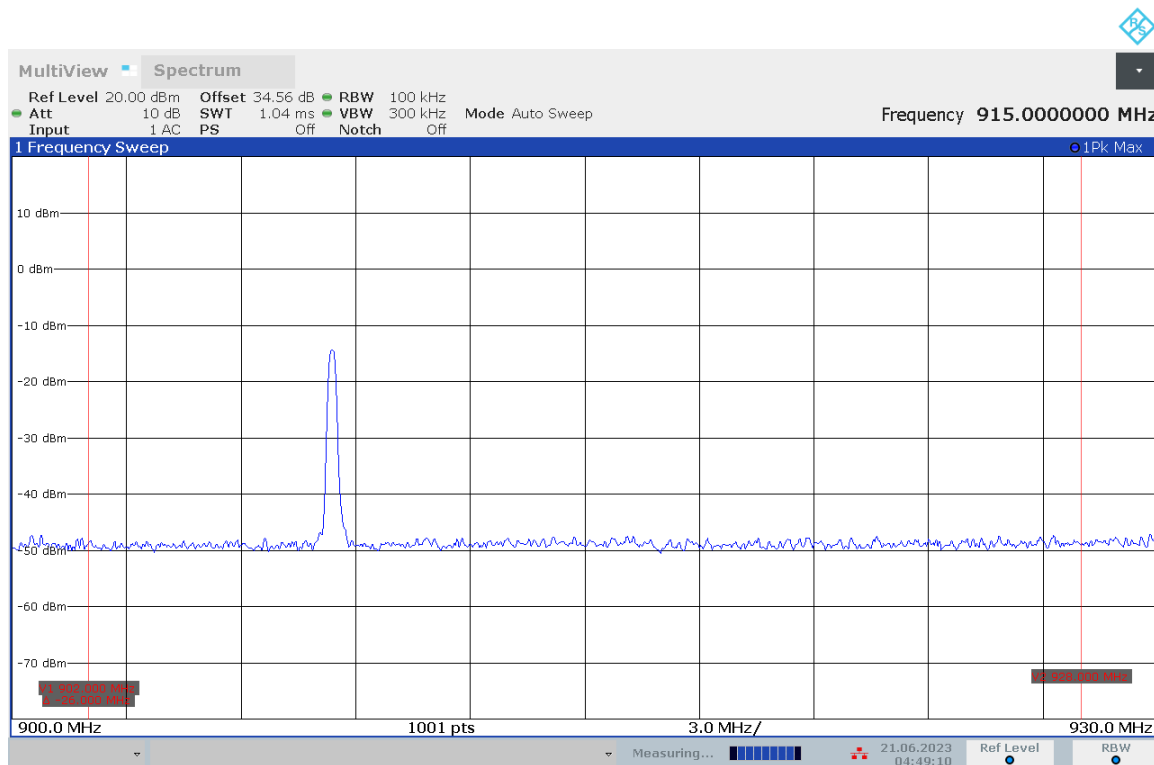


04:39:09 21.06.2023

CH2: 908.42 MHz



04:58:37 21.06.2023



04:49:10 21.06.2023

5.4. Radiated Emission

5.4.1. Test Limits:

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of fundamental or to the general radiated emission limits in 15.209, whichever is the lesser attenuation.

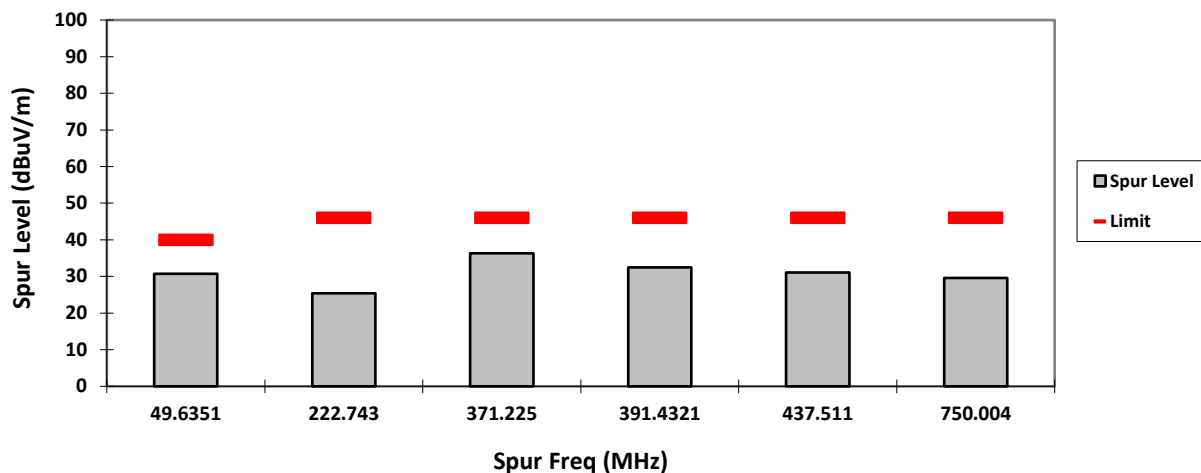
Field strength of harmonics shall comply with the following:

Frequency range [MHz]	Limit [$\mu\text{V/m}$]	Limit [dB $\mu\text{V/m}$]	Detector
902 – 928	500	53.9	Quasi-peak
2400 – 2483.5	500	53.9	Average
5725 – 5875	500	53.9	Average
24000 – 24500	2500	67.9	Average

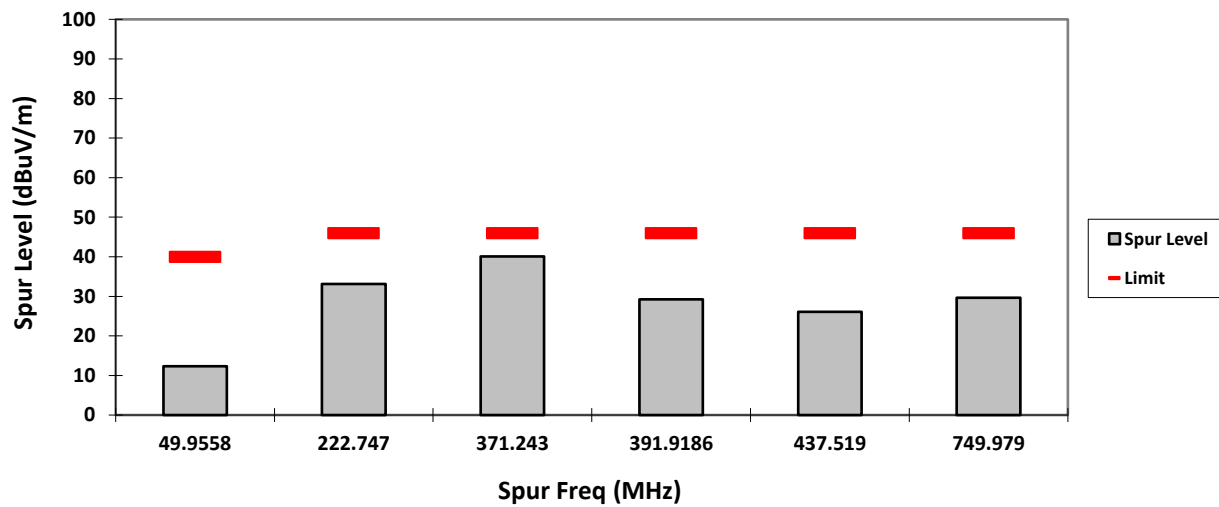
Radiated emission limits according to 15.209:

Frequency range [MHz]	Limit [$\mu\text{V/m}$]	Limit [dB $\mu\text{V/m}$]	Detector
0.009-0.490	2400/F(kHz)	48.5-13.8	Quasi-peak
0.490-1.705	24000/F(kHz)	33.8-22.97	Quasi-peak
1.705-30.0	30	29.54	Quasi-peak
30 - 80	100	40.0	Quasi-peak
88 - 216	150	43.5	Quasi-peak
216 - 960	200	46.0	Quasi-peak
960 - 1000	500	53.9	Quasi-peak
Above 1000	500	53.9	Average
Above 1000	5000	73.9	Peak

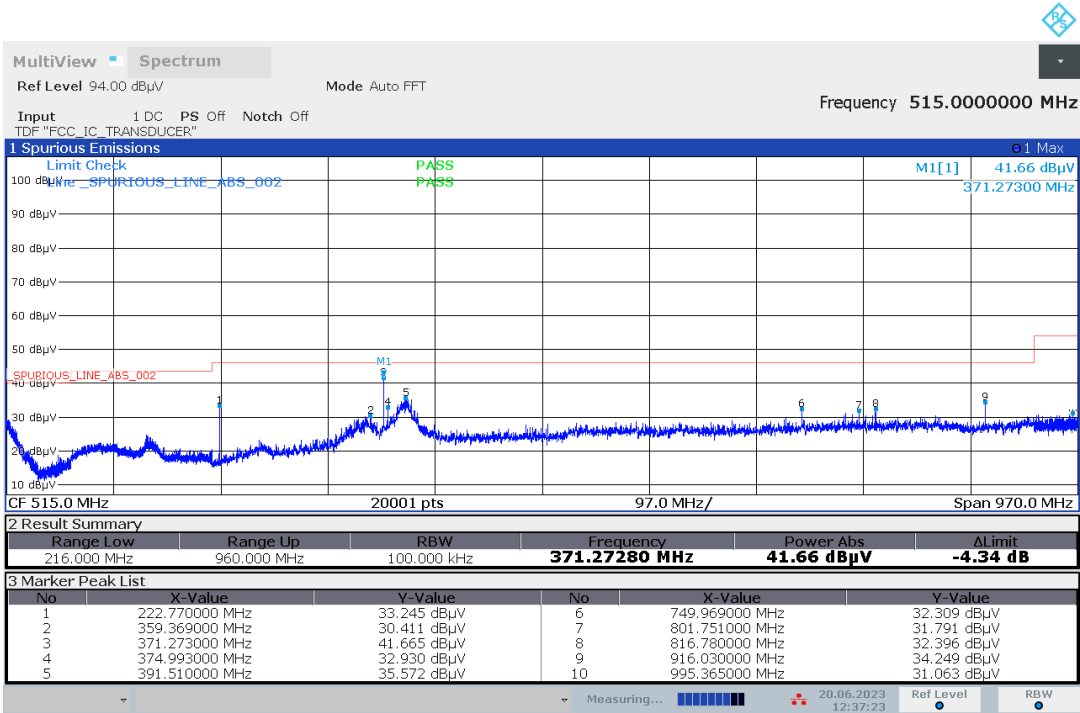
VERTICAL, QPK



HORIZONTAL, QPK



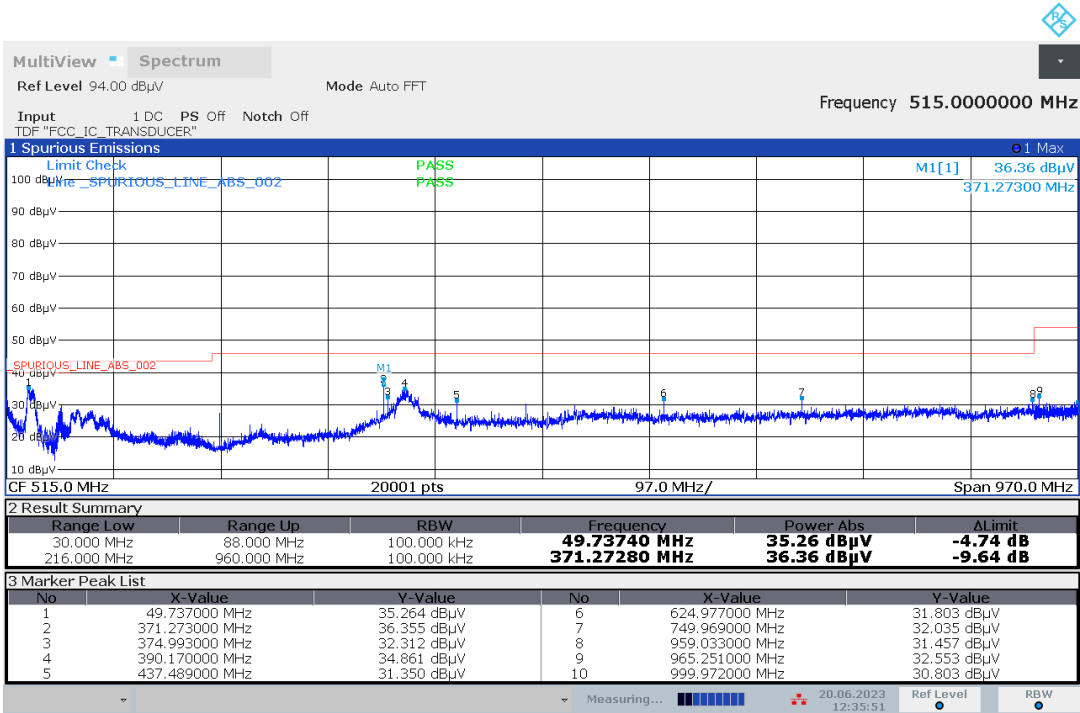
CH0: 916.00 MHz / 30MHz-1GHz / Horizontal



12:37:24 20.06.2023

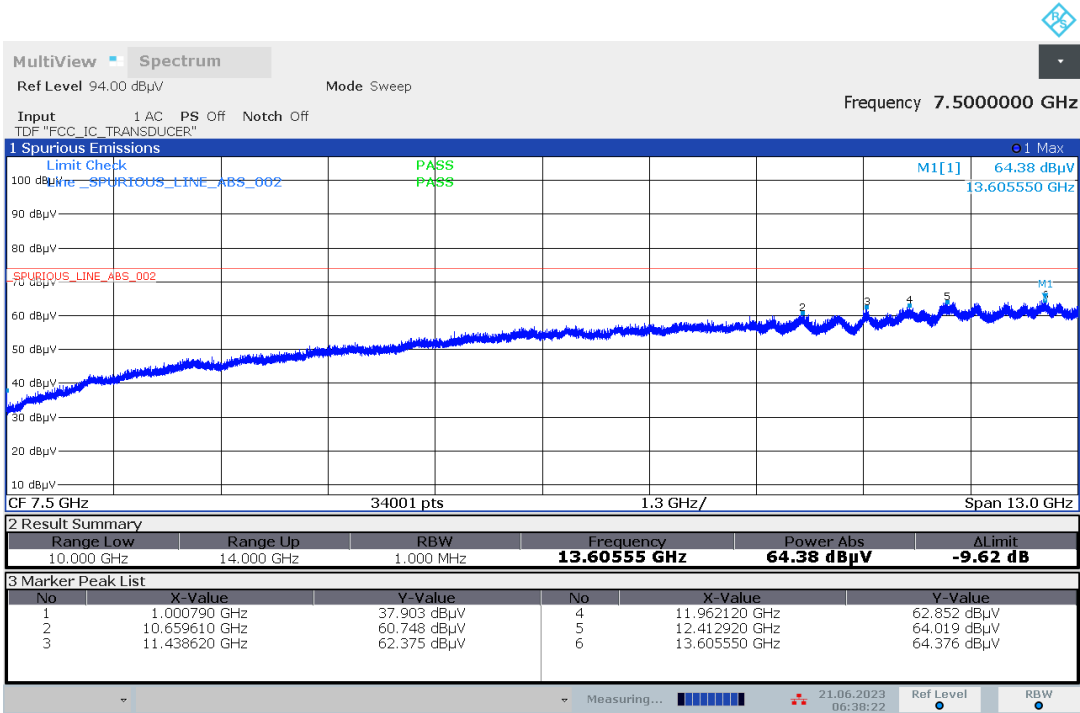
Note: 916.00 MHz signal is the fundamental being attenuated by the notch filter

CH0: 916.00 MHz / 30MHz-1GHz / Vertical



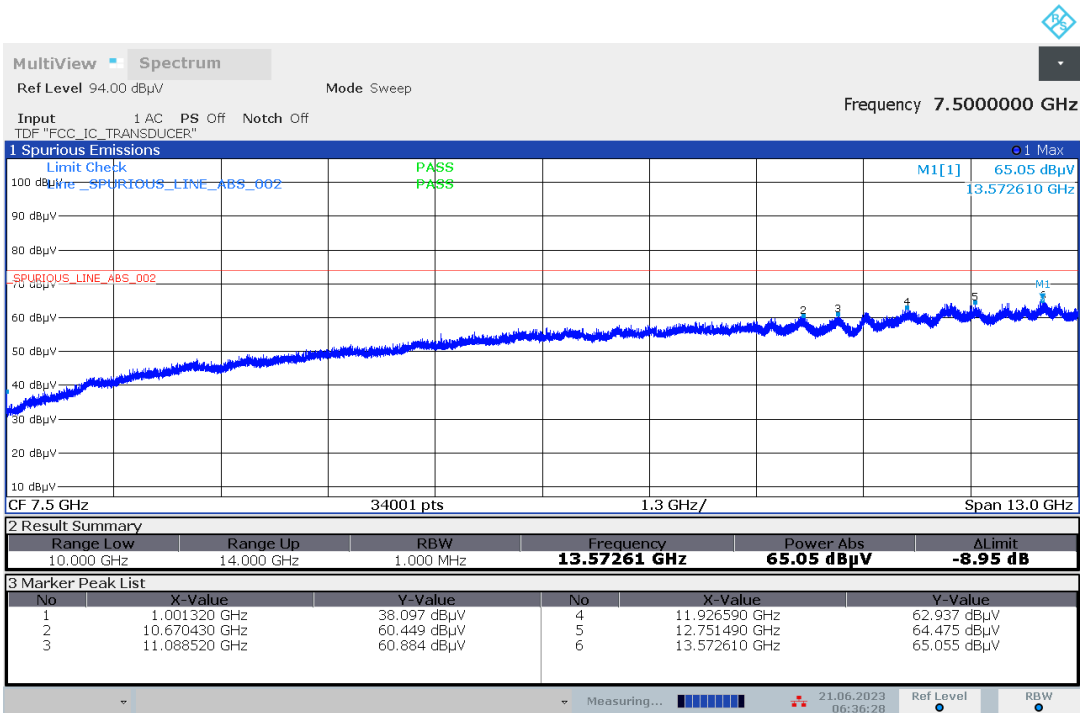
12:35:51 20.06.2023

CH0: 916.00 MHz / 1GHz-14GHz / Horizontal



06:38:23 21.06.2023

CH0: 916.00 MHz / 1GHz-14GHz / Vertical



06:36:28 21.06.2023

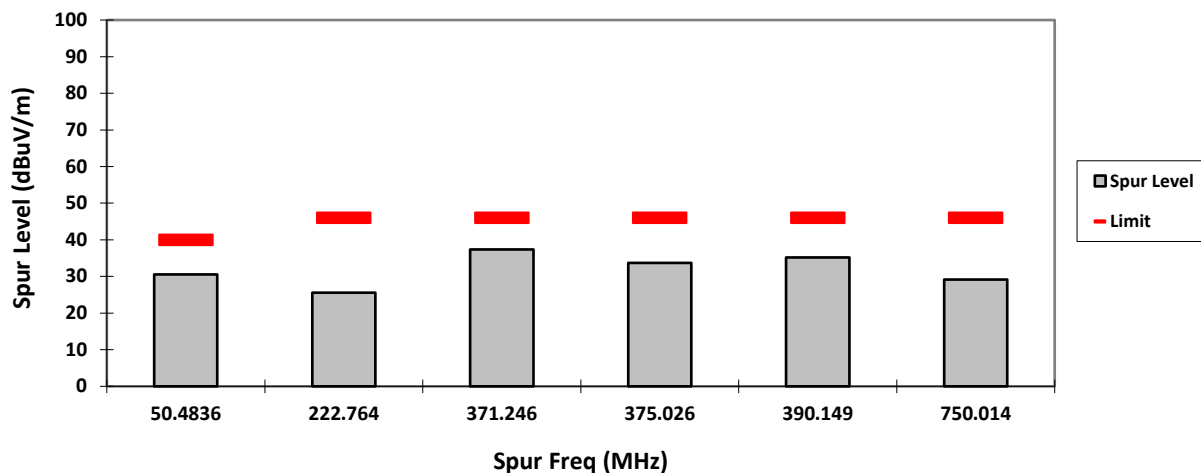
Radiated Emission (Mid Channel) tabular data

Remarks: Pass Result	Marginal Result	Fail Result
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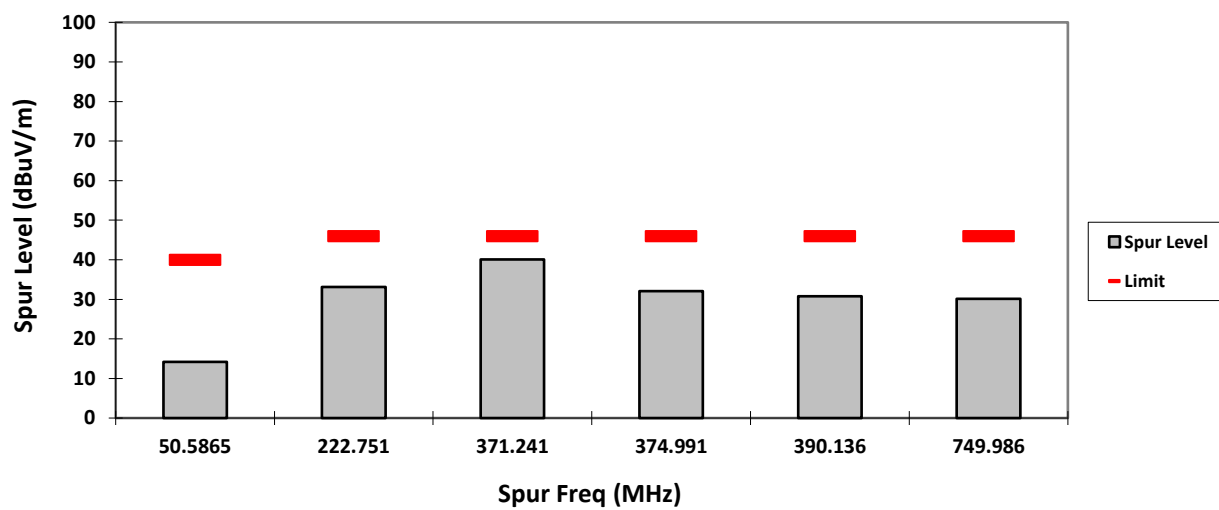
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

18

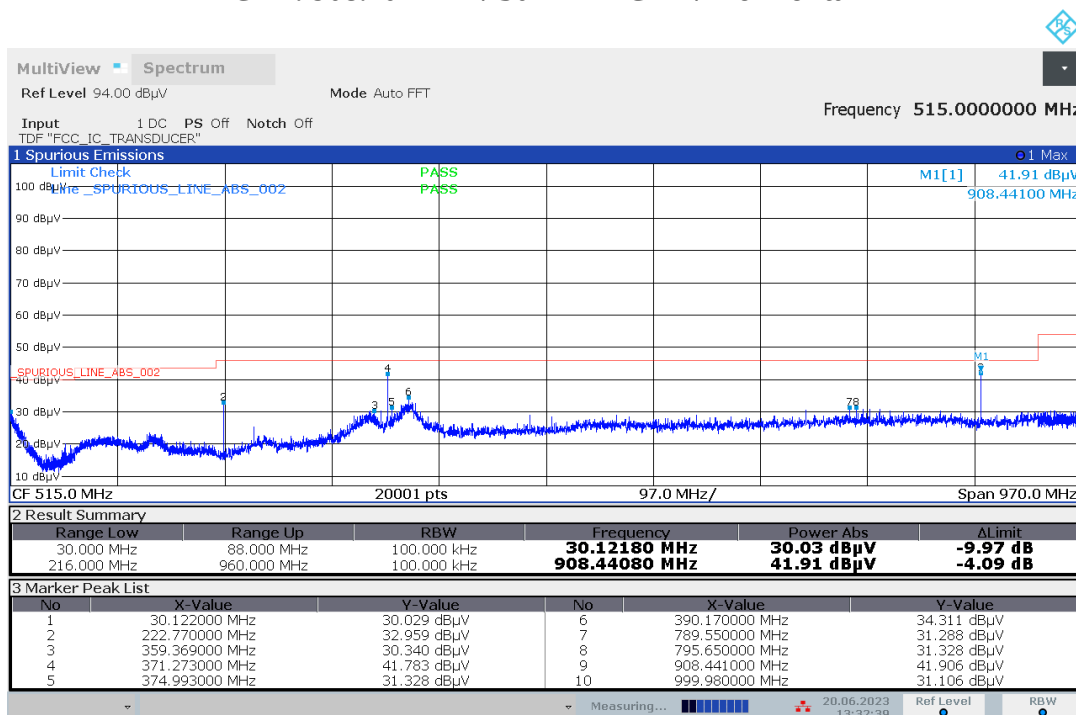
VERTICAL, QPK



HORIZONTAL, QPK



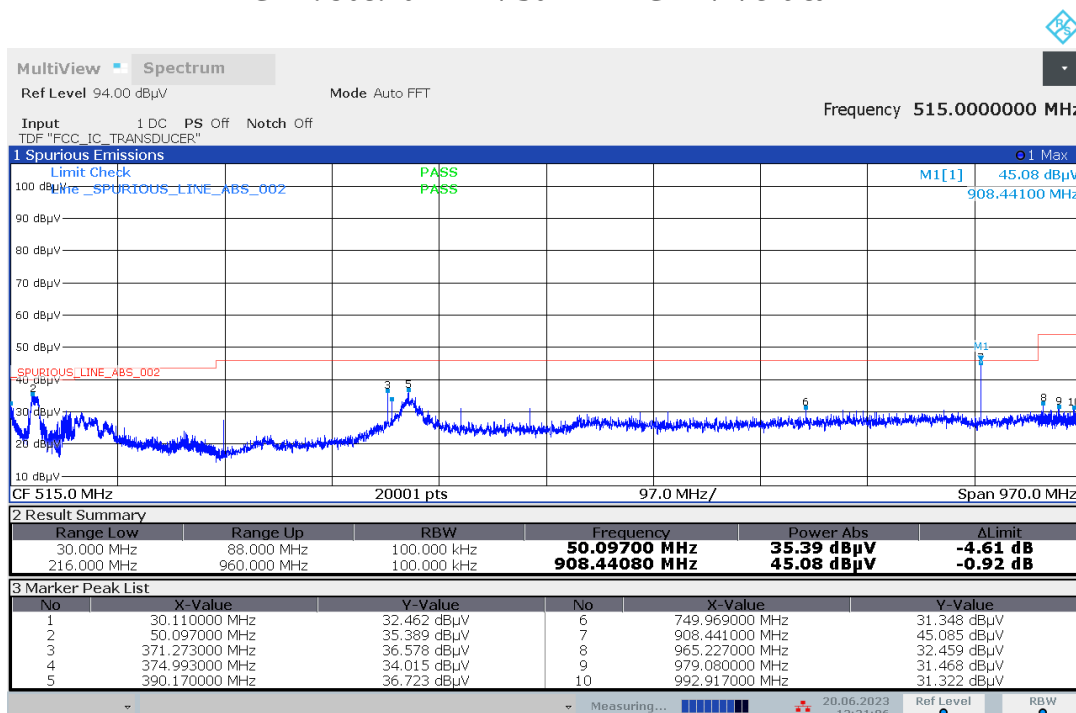
CH1: 908.40 MHz / 30MHz-1GHz / Horizontal



13:32:39 20.06.2023

Note: 908.4 MHz signal is the fundamental being attenuated by the notch filter

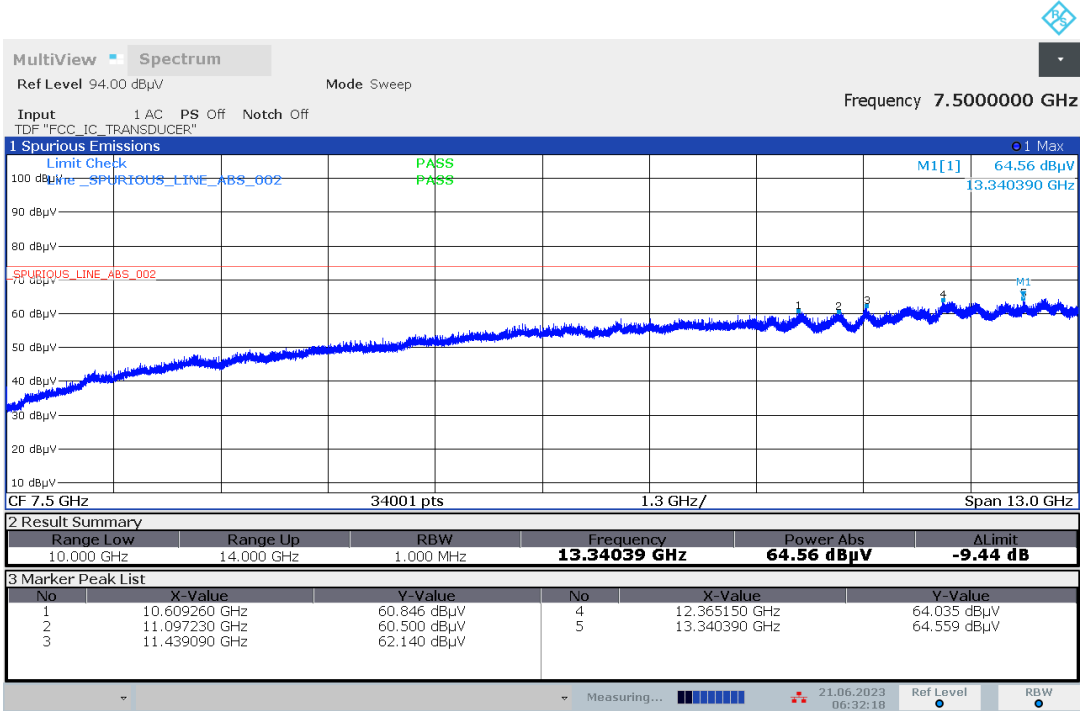
CH1: 908.40 MHz / 30MHz-1GHz / Vertical



13:31:06 20.06.2023

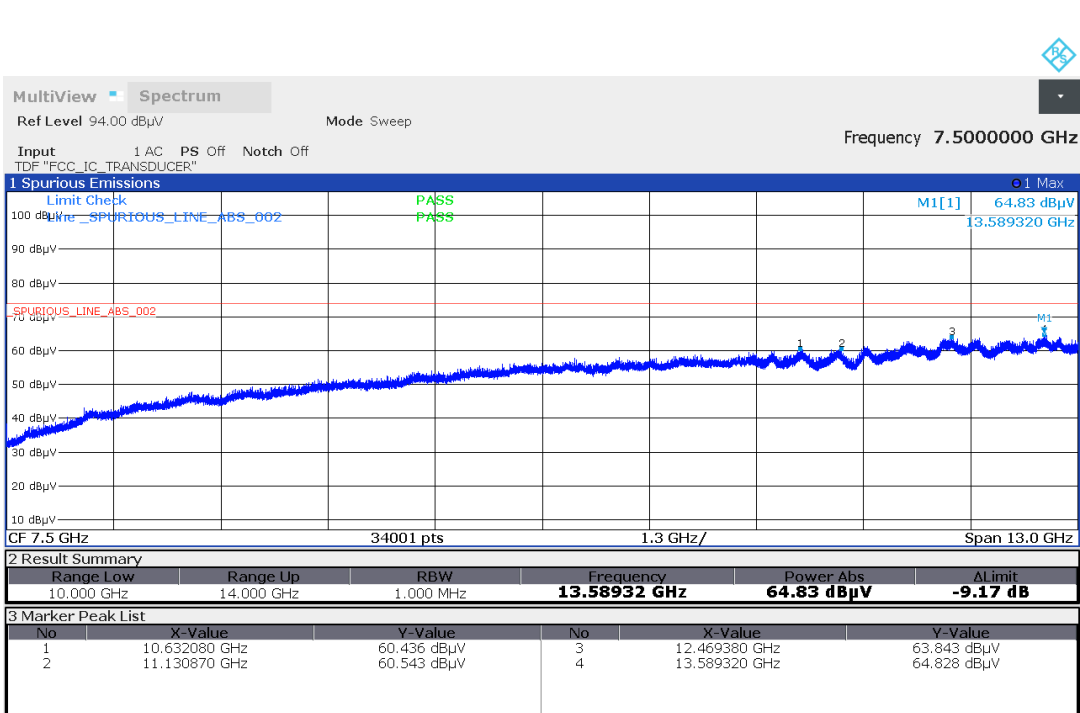
Note: 908.4 MHz signal is the fundamental being attenuated by the notch filter

CH1: 908.40 MHz / 1GHz-14GHz / Horizontal



06:32:19 21.06.2023

CH1: 908.40 MHz / 1GHz-14GHz / Vertical



06:30:25 21.06.2023

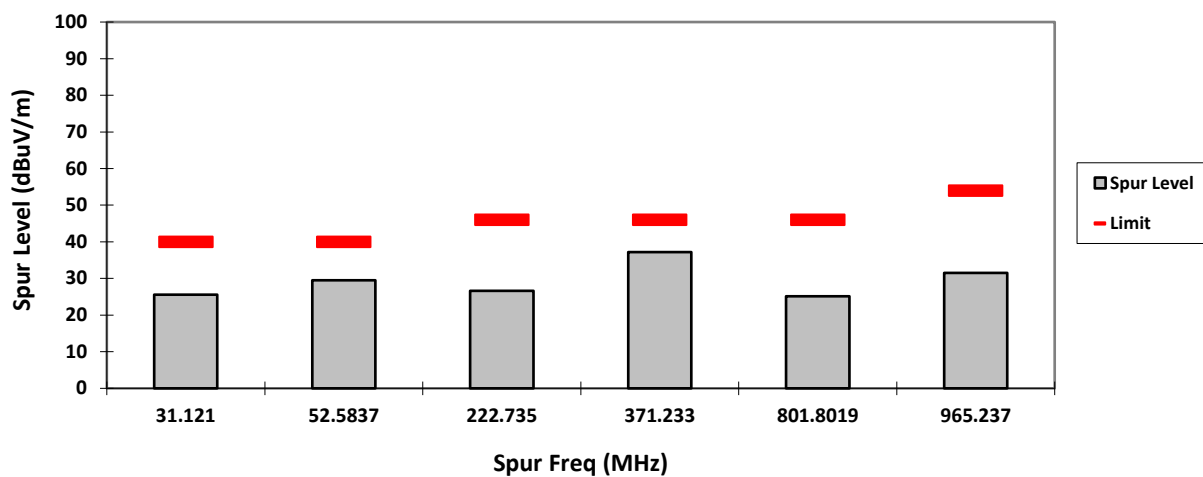
Radiated Emission (High Channel) tabular data

Remarks: Pass Result	Marginal Result	Fail Result
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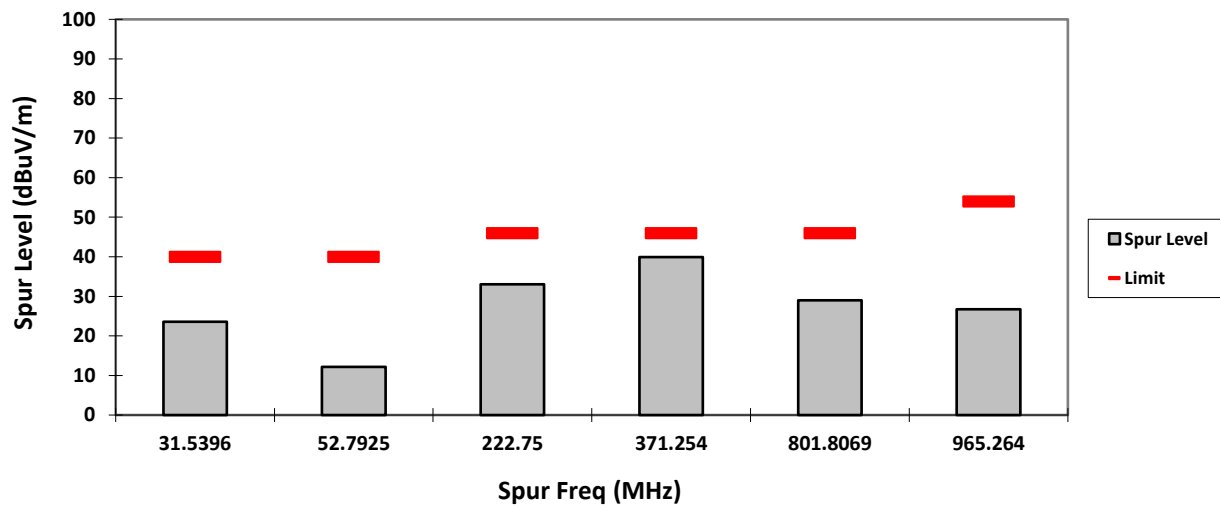
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

22

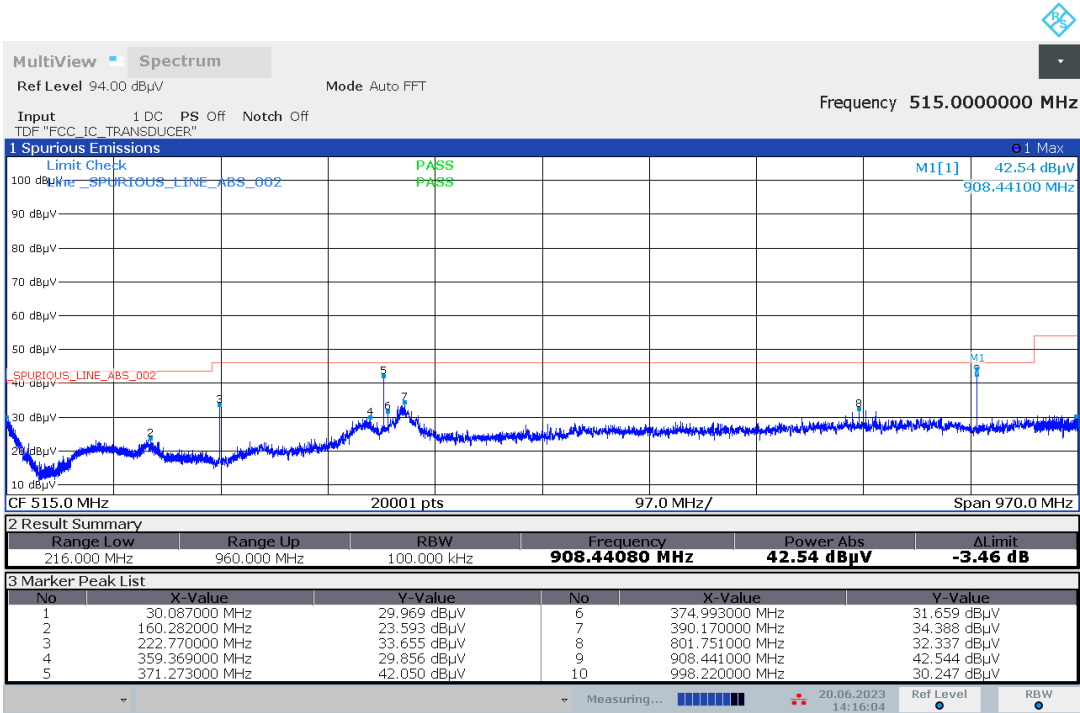
VERTICAL, QPK



HORIZONTAL, QPK



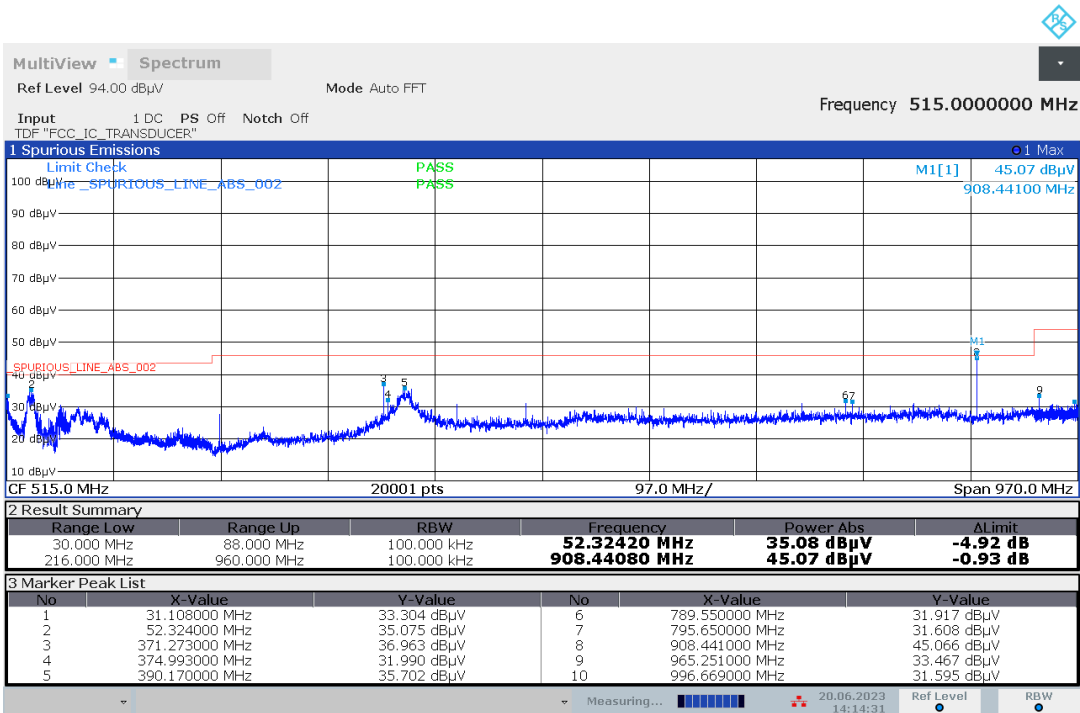
CH2: 908.42 MHz / 30MHz-1GHz / Horizontal



14:16:04 20.06.2023

Note: 908.4 MHz signal is the fundamental being attenuated by the notch filter

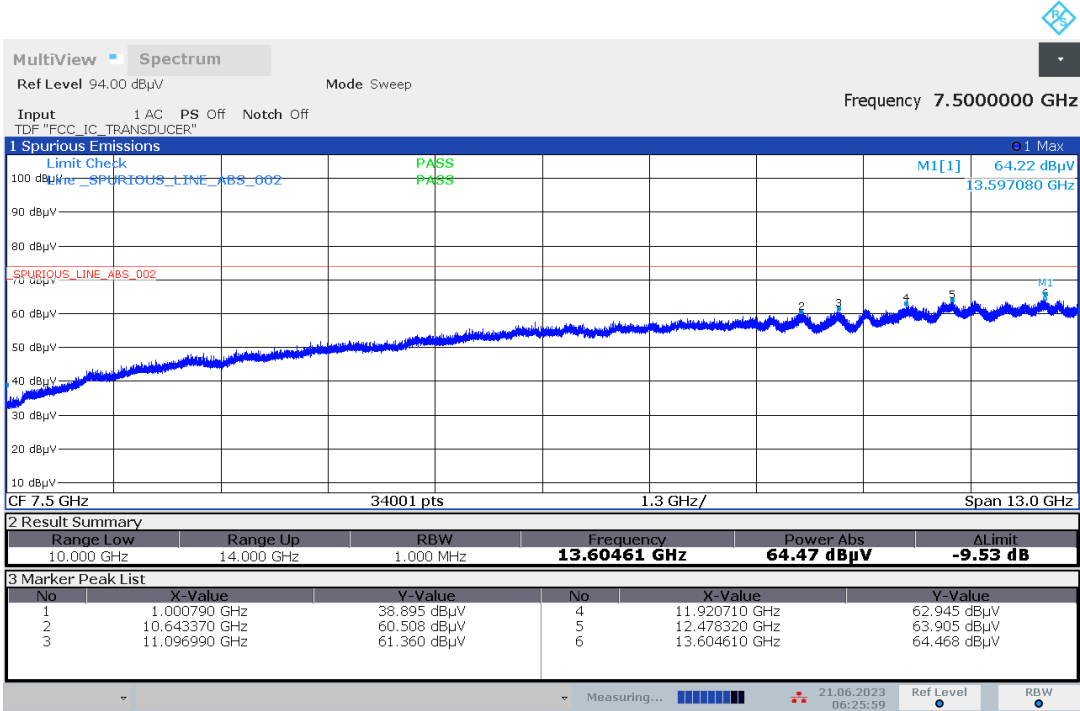
CH2: 908.42 MHz / 30MHz-1GHz / Vertical



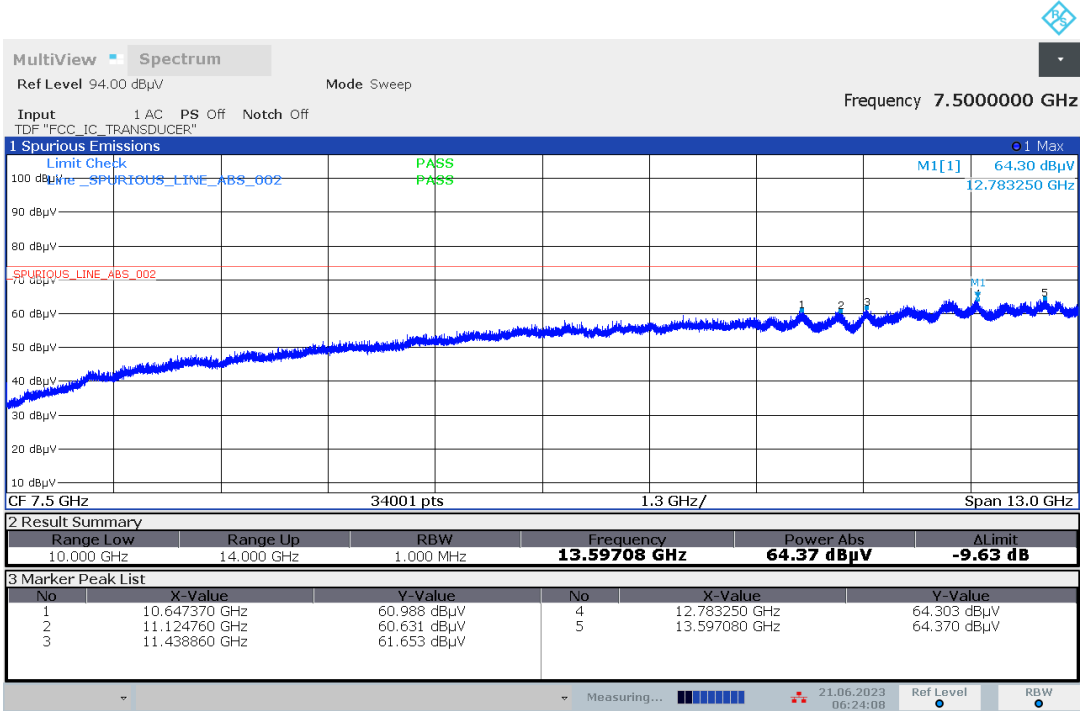
14:14:31 20.06.2023

Note: 908.4 MHz signal is the fundamental being attenuated by the notch filter

CH2: 908.42 MHz / 1GHz-14GHz / Horizontal



CH2: 908.42 MHz / 1GHz-14GHz / Vertical

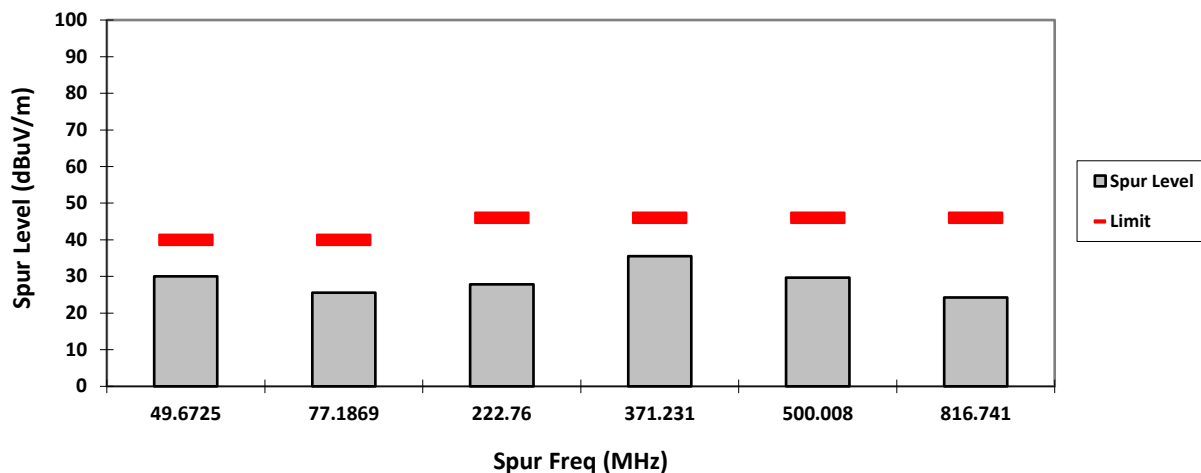


Radiated Emission tabular data

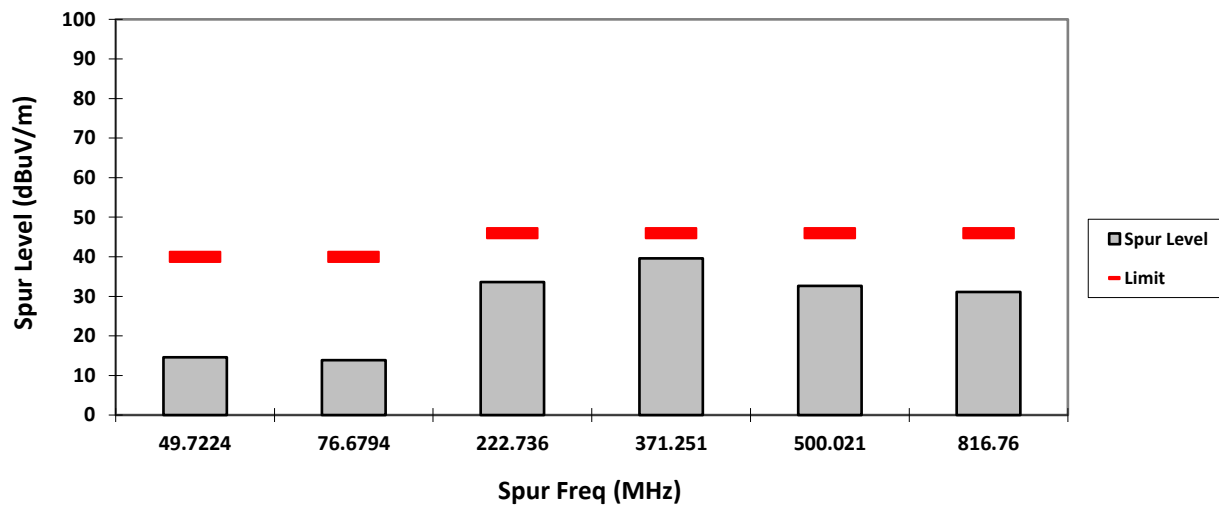
Remarks: Pass Result	Marginal Result	Fail Result
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Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

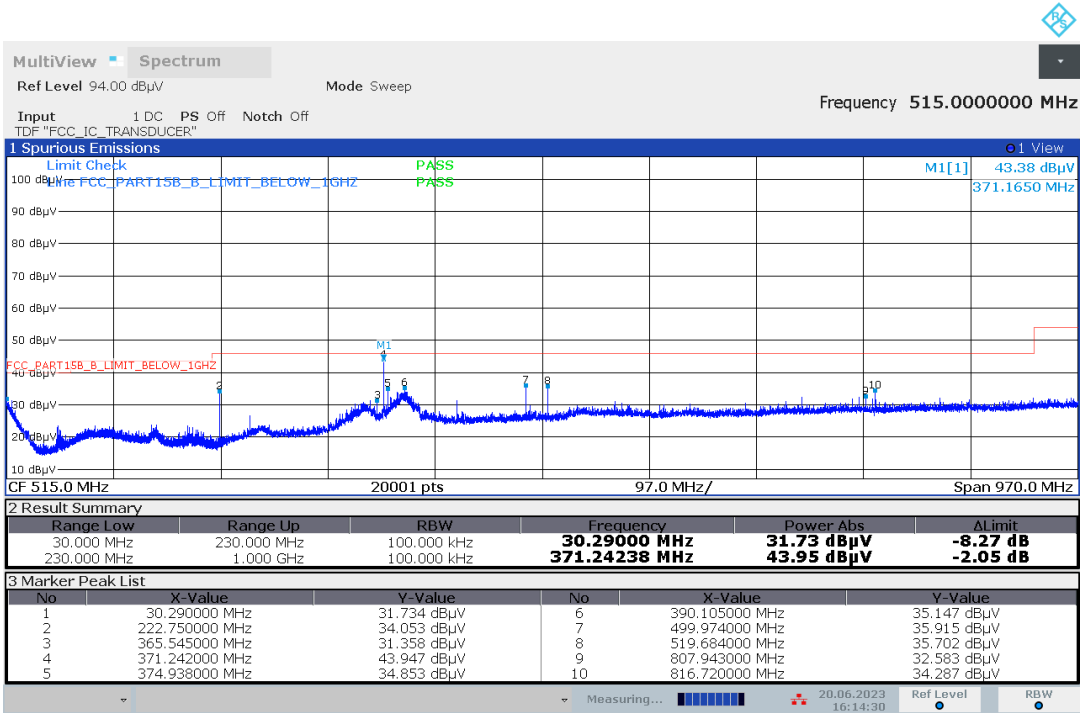
VERTICAL, QPK



HORIZONTAL, QPK

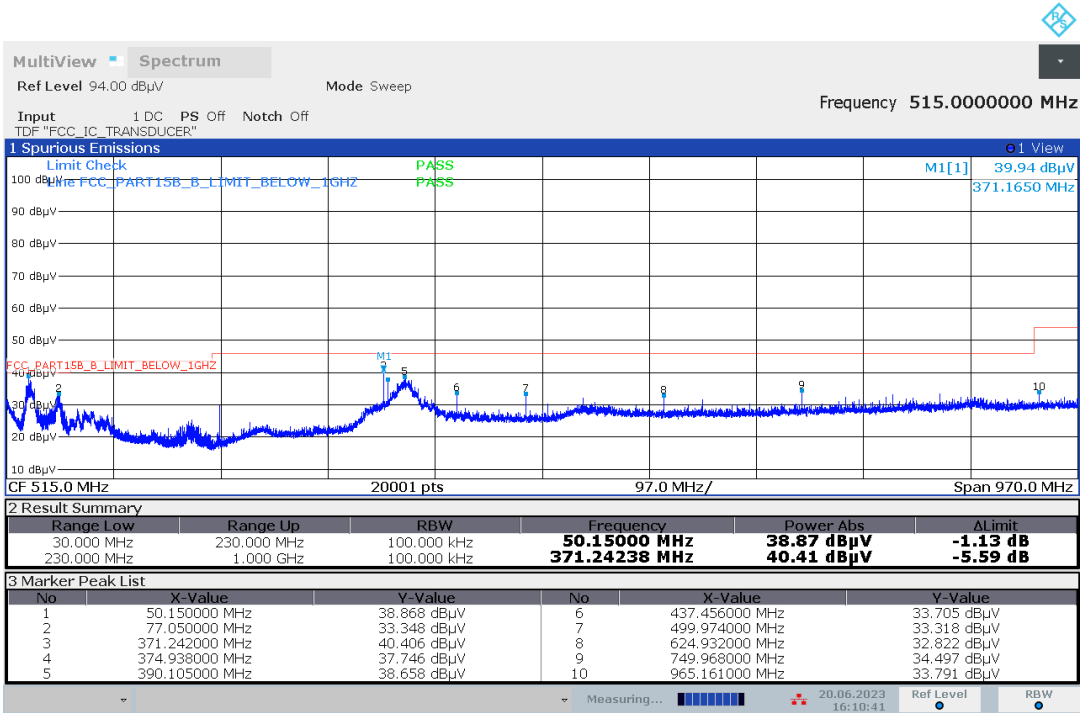


CH0: 916.00 MHz / 30MHz-1GHz / Horizontal



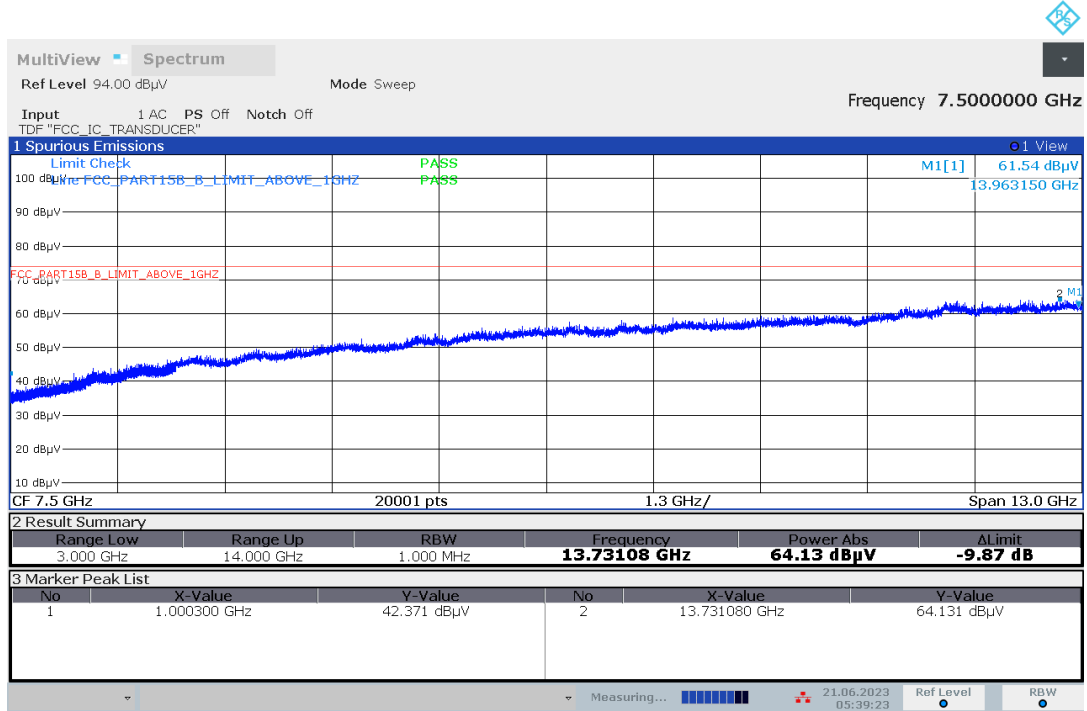
16:14:30 20.06.2023

CH0: 916.00 MHz / 30MHz-1GHz / Vertical



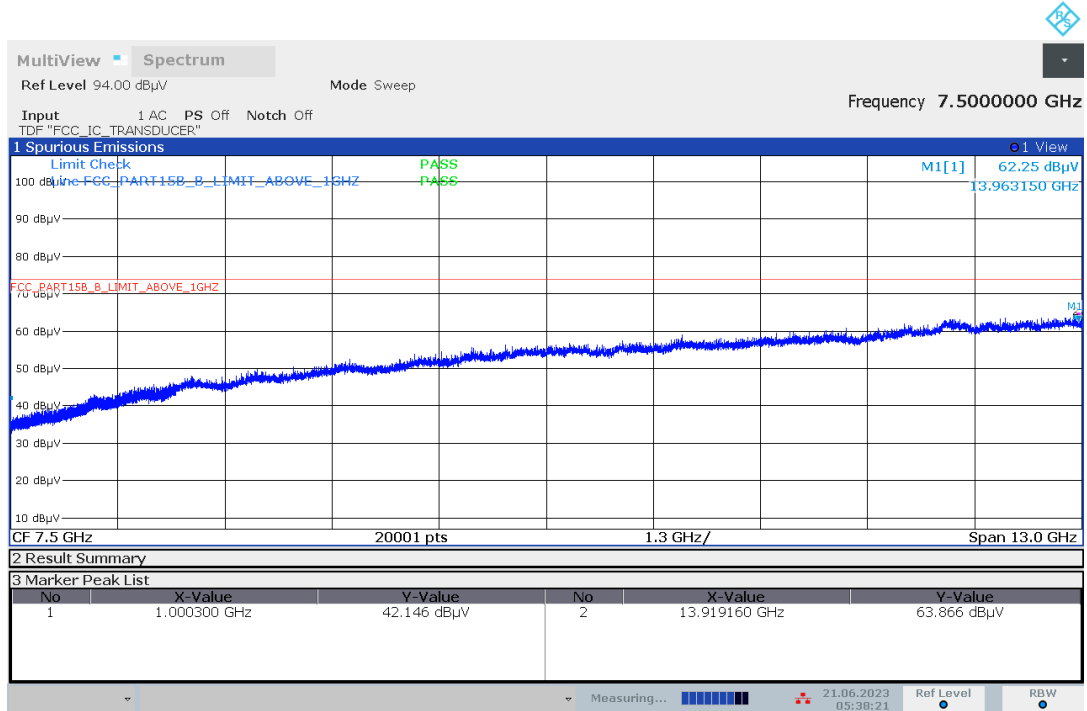
16:10:41 20.06.2023

CH0: 916.00 MHz / 1GHz-14GHz / Horizontal



05:39:23 21.06.2023

CH0: 916.00 MHz / 1GHz-14GHz / Vertical



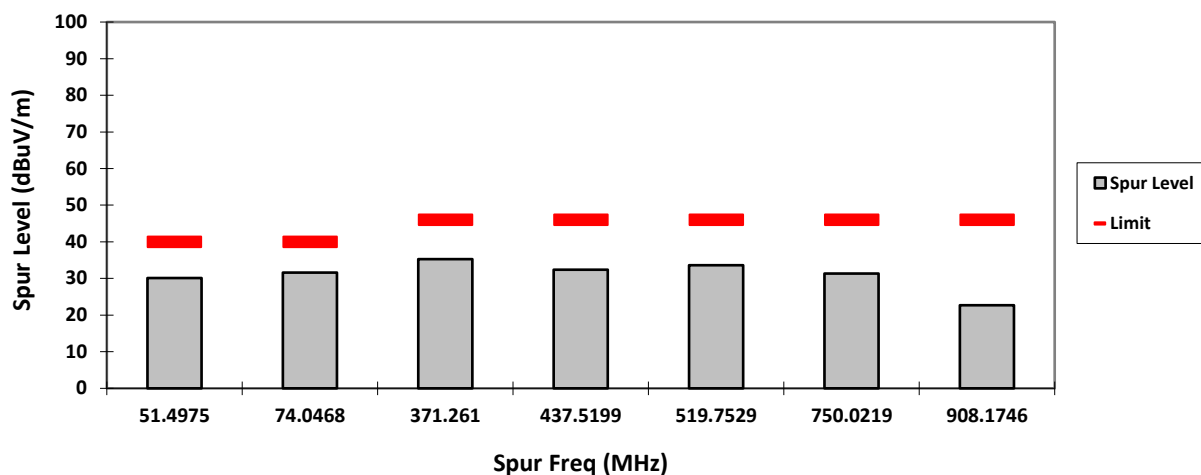
05:38:21 21.06.2023

Radiated Emission tabular data

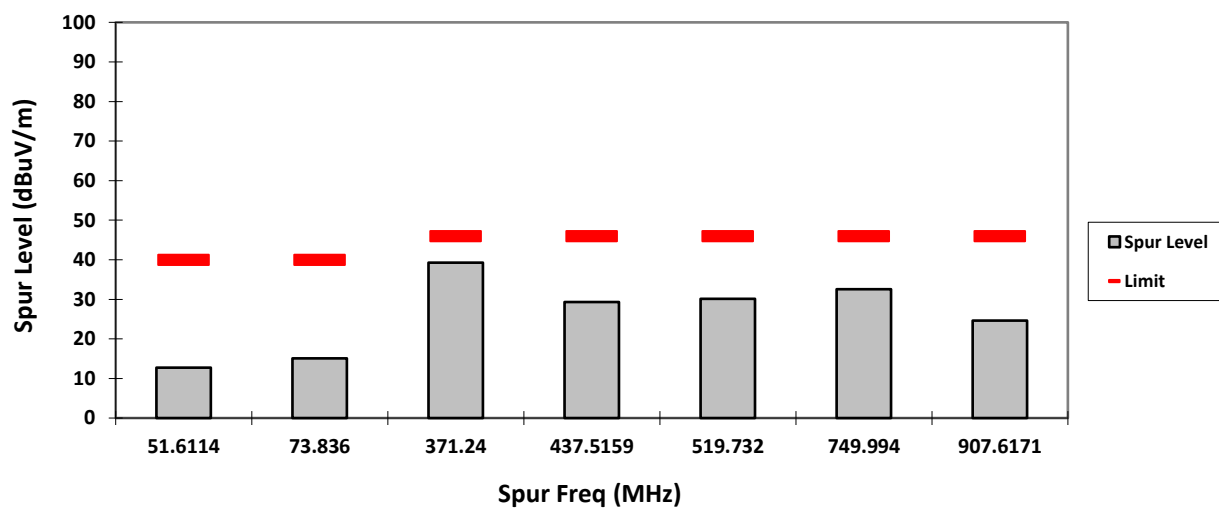
Remarks: Pass Result	Marginal Result	Fail Result
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Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

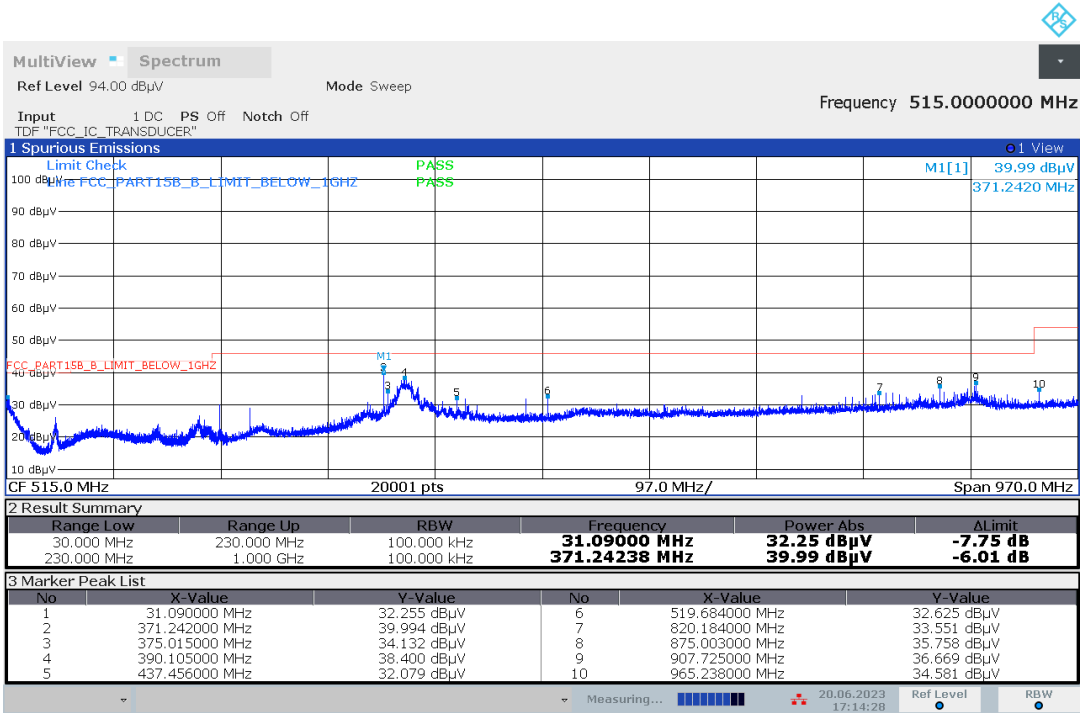
VERTICAL, QPK



HORIZONTAL, QPK

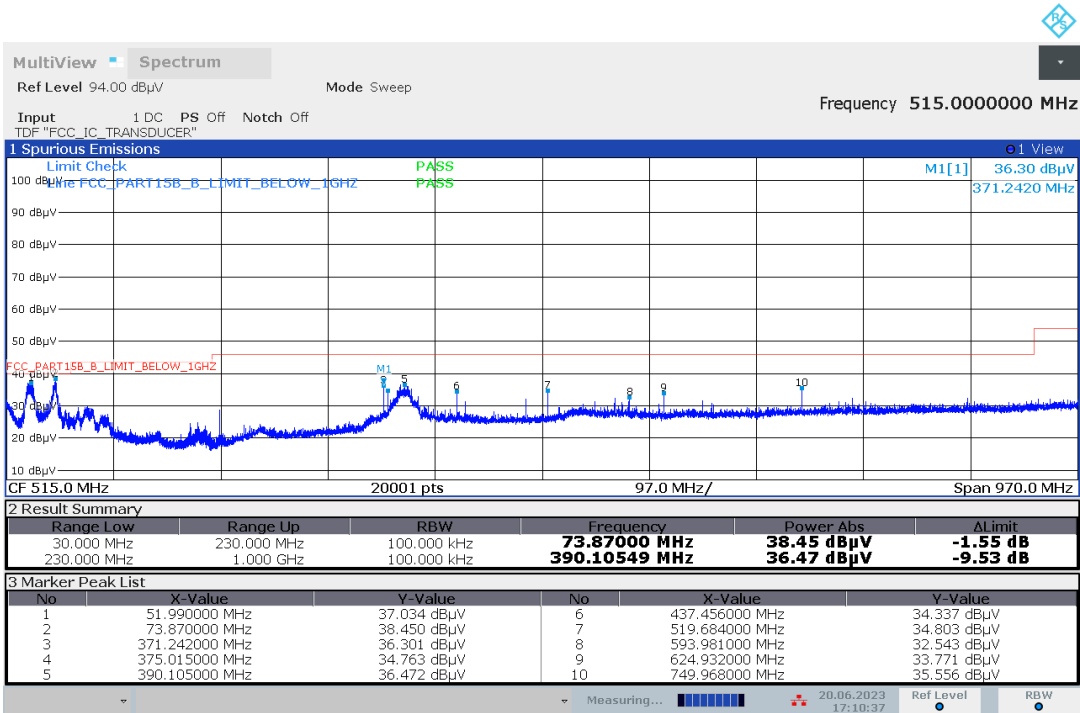


CH1: 908.40 MHz / 30MHz-1GHz / Horizontal



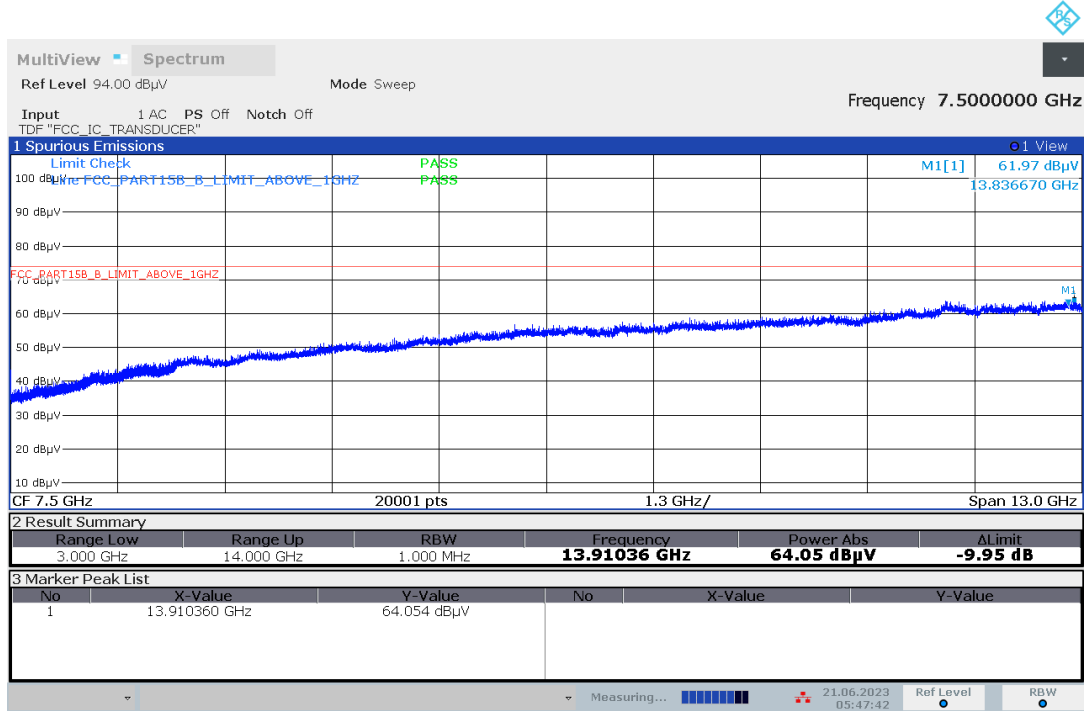
17:14:28 20.06.2023

CH1: 908.40 MHz / 30MHz-1GHz / Vertical



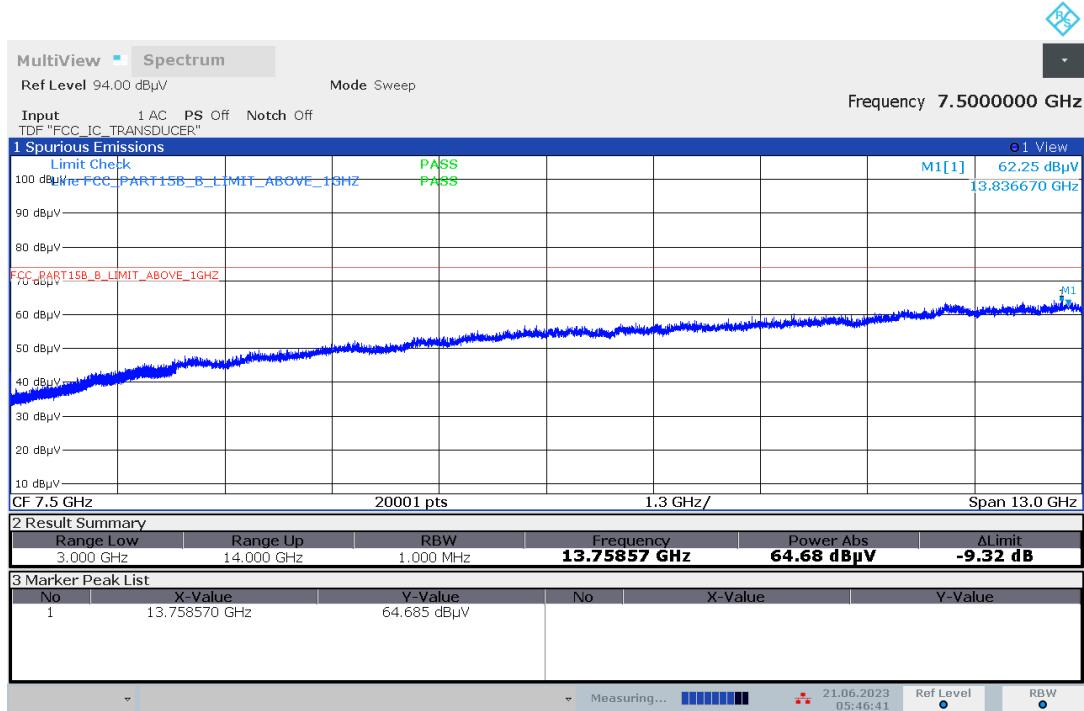
17:10:37 20.06.2023

CH1: 908.40 MHz / 1GHz-14GHz / Horizontal



05:47:43 21.06.2023

CH1: 908.40 MHz / 1GHz-14GHz / Vertical



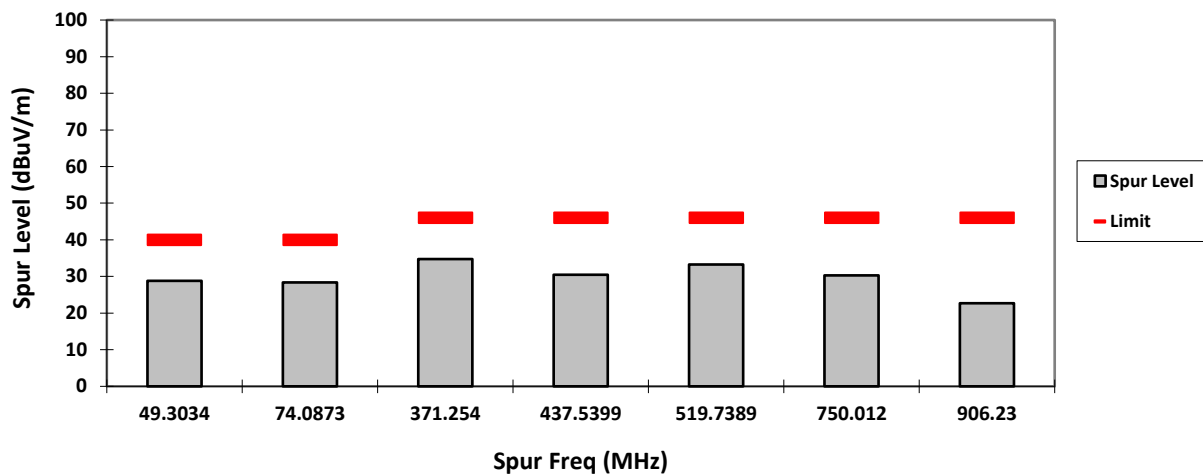
05:46:41 21.06.2023

Radiated Emission tabular data

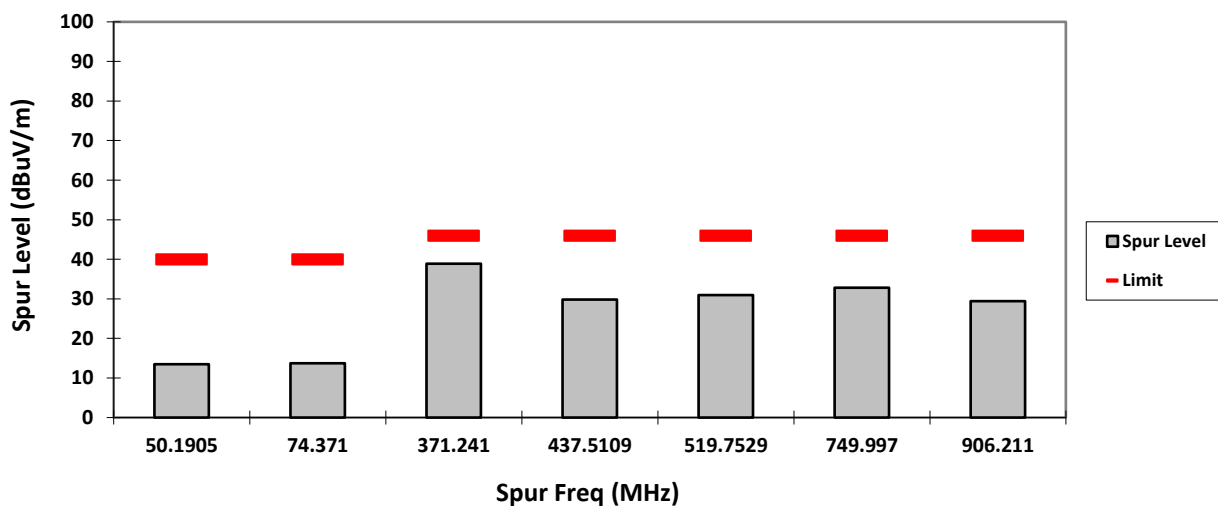
Remarks: Pass Result	Marginal Result	Fail Result
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Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

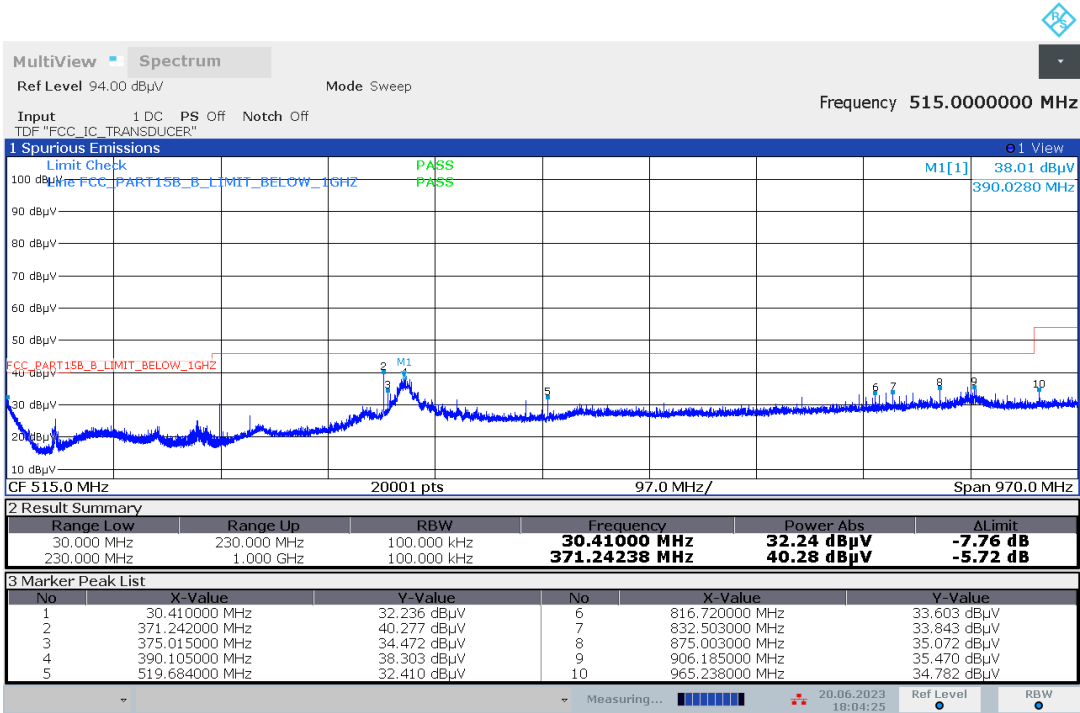
VERTICAL, QPK



HORIZONTAL, QPK

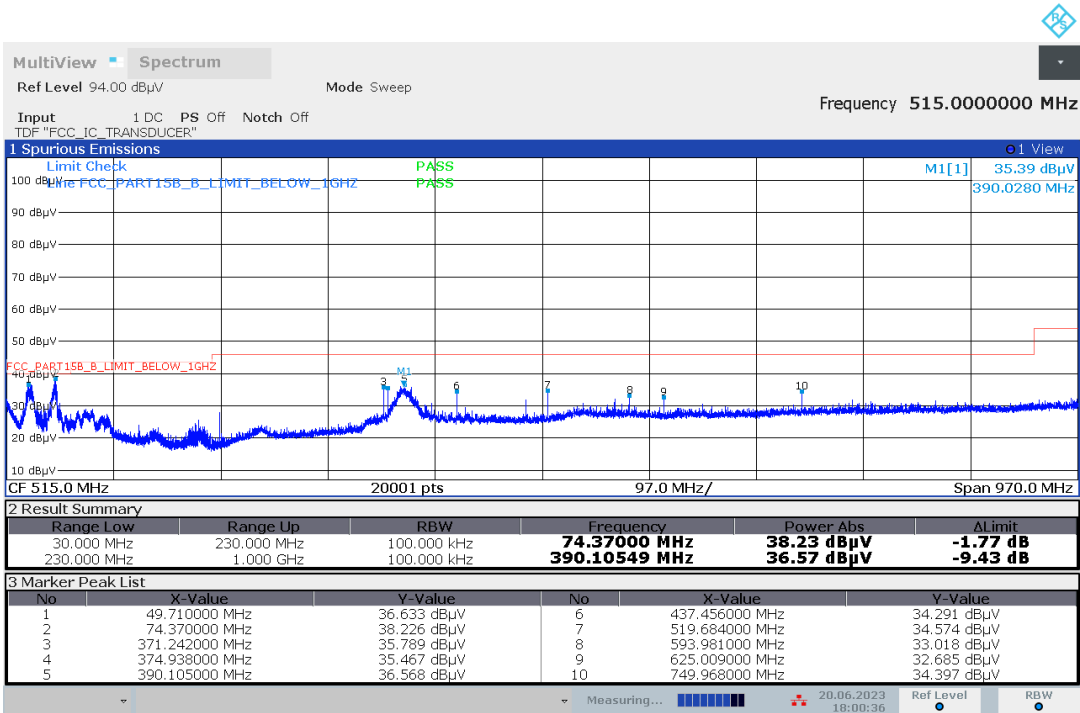


CH2: 908.42 MHz / 30MHz-1GHz / Horizontal



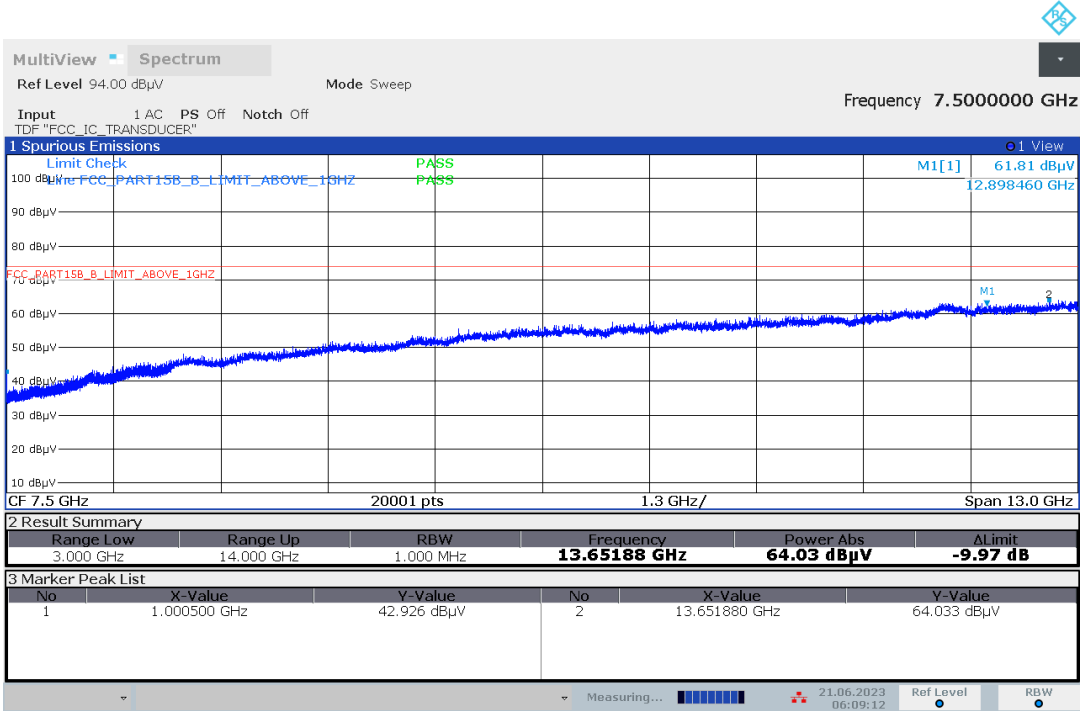
18:04:25 20.06.2023

CH2: 908.42 MHz / 30MHz-1GHz / Vertical



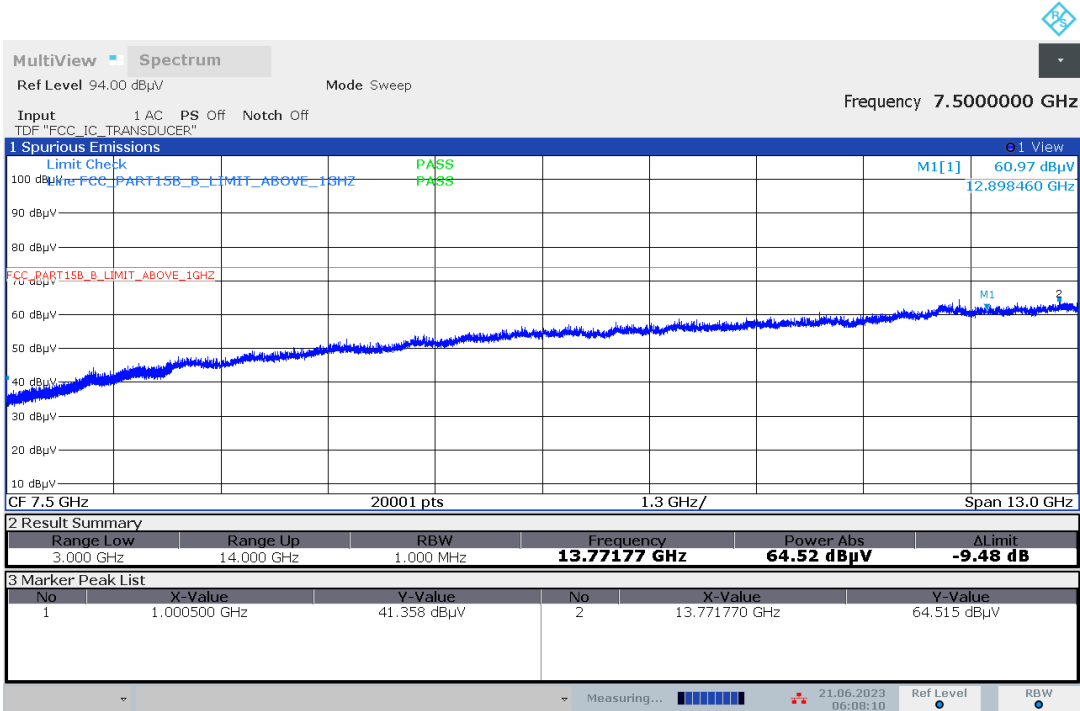
18:00:36 20.06.2023

CH2: 908.42 MHz / 1GHz-14GHz / Horizontal



06:09:13 21.06.2023

CH2: 908.42 MHz / 1GHz-14GHz / Vertical



06:08:11 21.06.2023

5.5. Conducted Emissions on Power Supply Lines

5.5.1. Test Limit

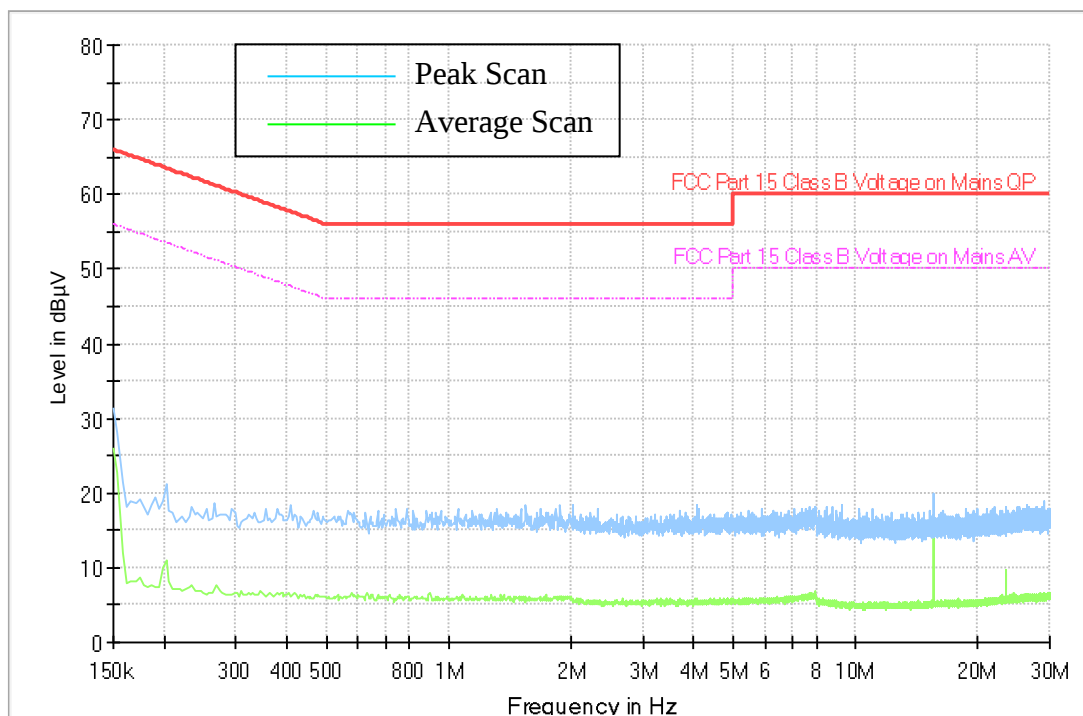
Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50
NOTE 1 The lower limit shall apply at the transition frequencies. NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		

5.5.1. Test Data

Report ID.:	: 38675-RF-00004
Ambient Temperature:	: 20.4 °C
Humidity:	: 61.5 %RH
Tester:	: Alif
Date of test:	: 23 June 2023

1) Ambient 120V

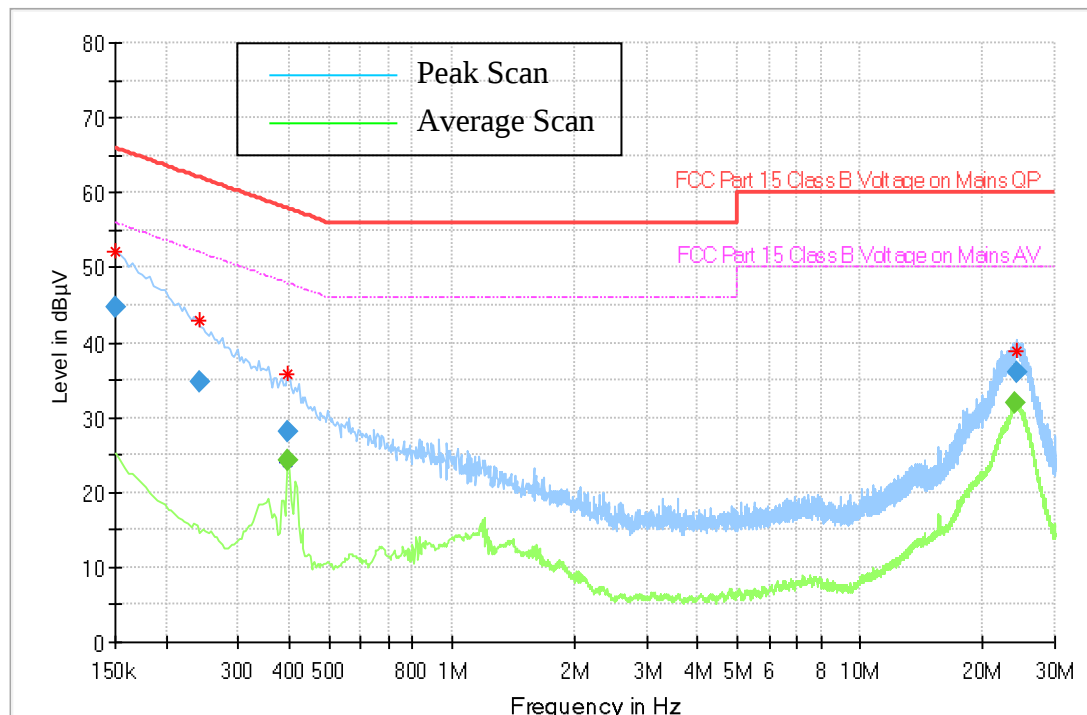
Full Spectrum



120VAC, 60Hz

1) EUT Rx CH: 0

Full Spectrum



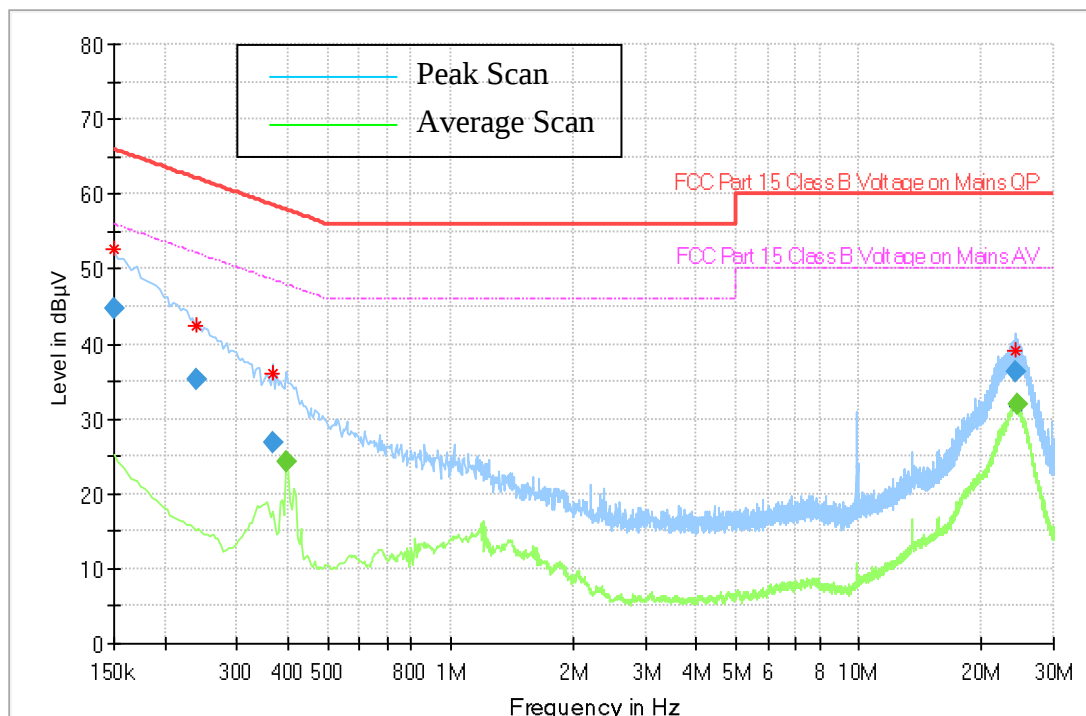
Quasi-Peak and Average Measurement

Frequency (MHz)	Quasi-Peak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.150000	44.85	---	66.00	21.15	1000.0	9.000	N	ON	10.3	PASS
0.242000	34.80	---	62.03	27.23	1000.0	9.000	L1	ON	10.2	PASS
0.398000	---	24.33	47.90	23.57	1000.0	9.000	L1	ON	10.3	PASS
0.398000	28.00	---	57.90	29.89	1000.0	9.000	L1	ON	10.3	PASS
23.982000	---	32.01	50.00	17.99	1000.0	9.000	N	ON	10.4	PASS
24.170000	36.10	---	60.00	23.90	1000.0	9.000	N	ON	10.4	PASS

* Expanded Uncertainty (U) = +/- 3.48dB

2) EUT Rx CH: 1

Full Spectrum



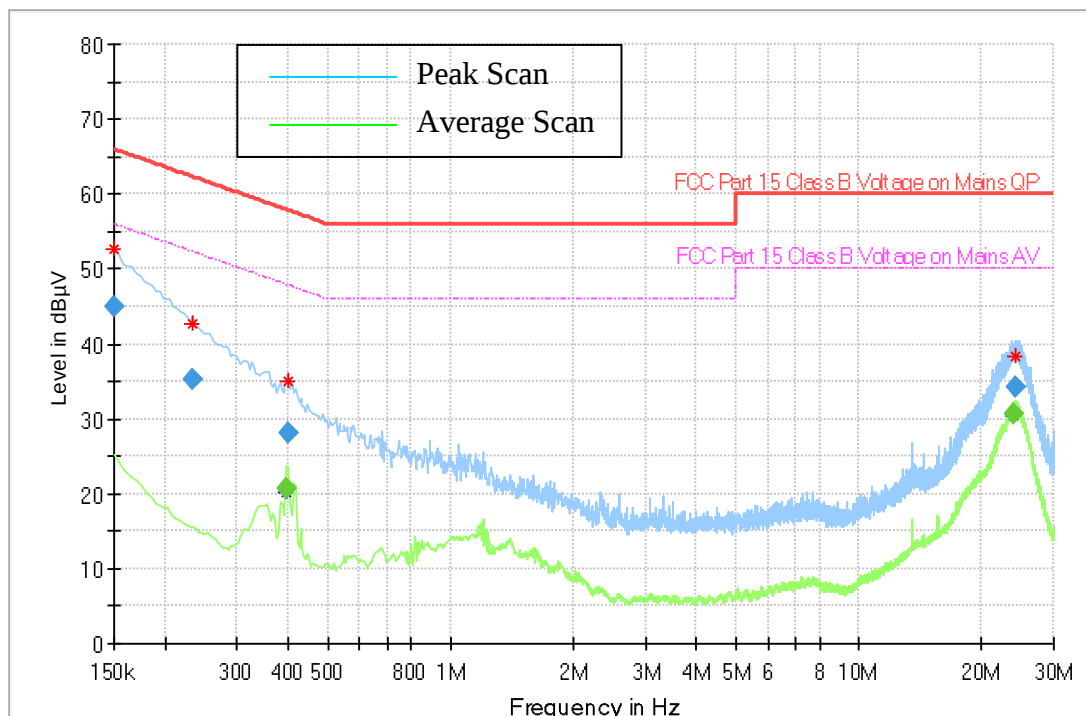
Quasi-Peak and Average Measurement

Frequency (MHz)	Quasi-Peak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.150000	44.79	---	66.00	21.21	1000.0	9.000	L1	ON	10.3	PASS
0.238000	35.18	---	62.17	26.99	1000.0	9.000	L1	ON	10.2	PASS
0.366000	26.72	---	58.59	31.87	1000.0	9.000	N	ON	10.3	PASS
0.398000	---	24.39	47.90	23.50	1000.0	9.000	L1	ON	10.3	PASS
24.110000	36.25	---	60.00	23.75	1000.0	9.000	N	ON	10.4	PASS
24.350000	---	32.00	50.00	18.00	1000.0	9.000	N	ON	10.4	PASS

* Expanded Uncertainty (U) = +/- 3.48dB

3) EUT Rx CH: 2

Full Spectrum



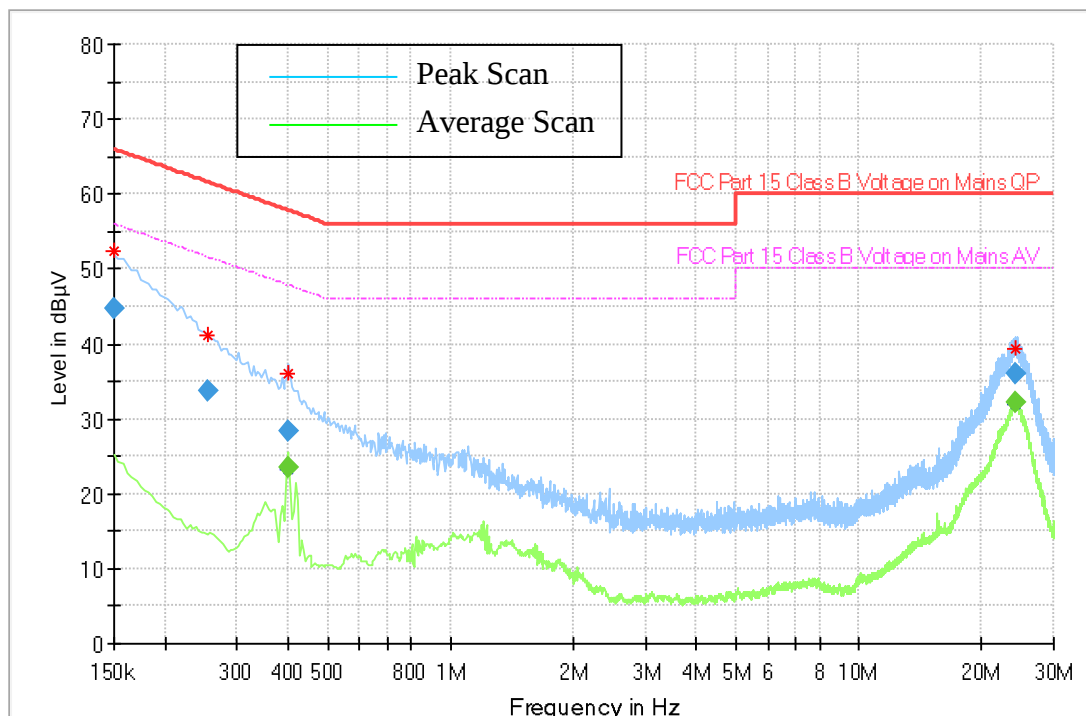
Quasi-Peak and Average Measurement

Frequency (MHz)	Quasi-Peak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.150000	44.89	---	66.00	21.11	1000.0	9.000	N	ON	10.3	PASS
0.234000	35.30	---	62.31	27.01	1000.0	9.000	L1	ON	10.2	PASS
0.398000	---	20.60	47.90	27.29	1000.0	9.000	L1	ON	10.3	PASS
0.402000	28.13	---	57.81	29.68	1000.0	9.000	L1	ON	10.3	PASS
24.038000	---	30.78	50.00	19.22	1000.0	9.000	L1	ON	10.4	PASS
24.198000	34.32	---	60.00	25.68	1000.0	9.000	L1	ON	10.4	PASS

* Expanded Uncertainty (U) = +/- 3.48dB

4) EUT Tx CH: 0

Full Spectrum



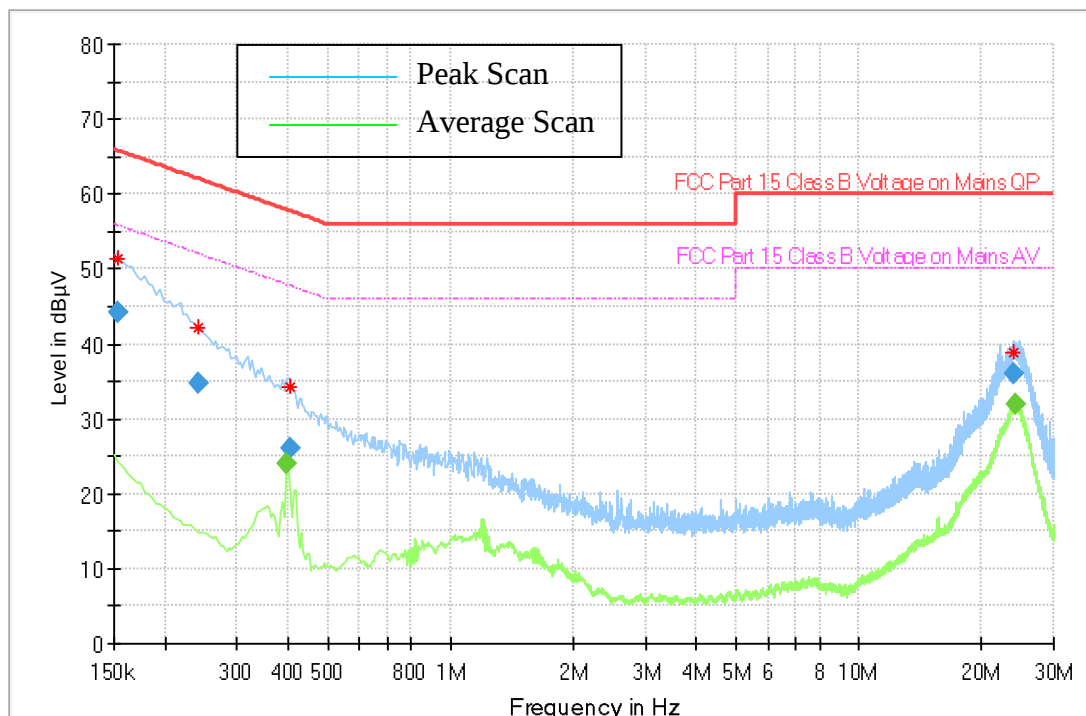
Quasi-Peak and Average Measurement

Frequency (MHz)	Quasi-Peak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.150000	44.65	---	66.00	21.35	1000.0	9.000	N	ON	10.3	PASS
0.254000	33.62	---	61.63	28.01	1000.0	9.000	N	ON	10.2	PASS
0.402000	---	23.44	47.81	24.38	1000.0	9.000	L1	ON	10.3	PASS
0.402000	28.29	---	57.81	29.53	1000.0	9.000	L1	ON	10.3	PASS
24.154000	---	32.09	50.00	17.91	1000.0	9.000	N	ON	10.4	PASS
24.242000	36.04	---	60.00	23.96	1000.0	9.000	N	ON	10.4	PASS

* Expanded Uncertainty (U) = +/- 3.48dB

5) EUT Tx CH: 1

Full Spectrum



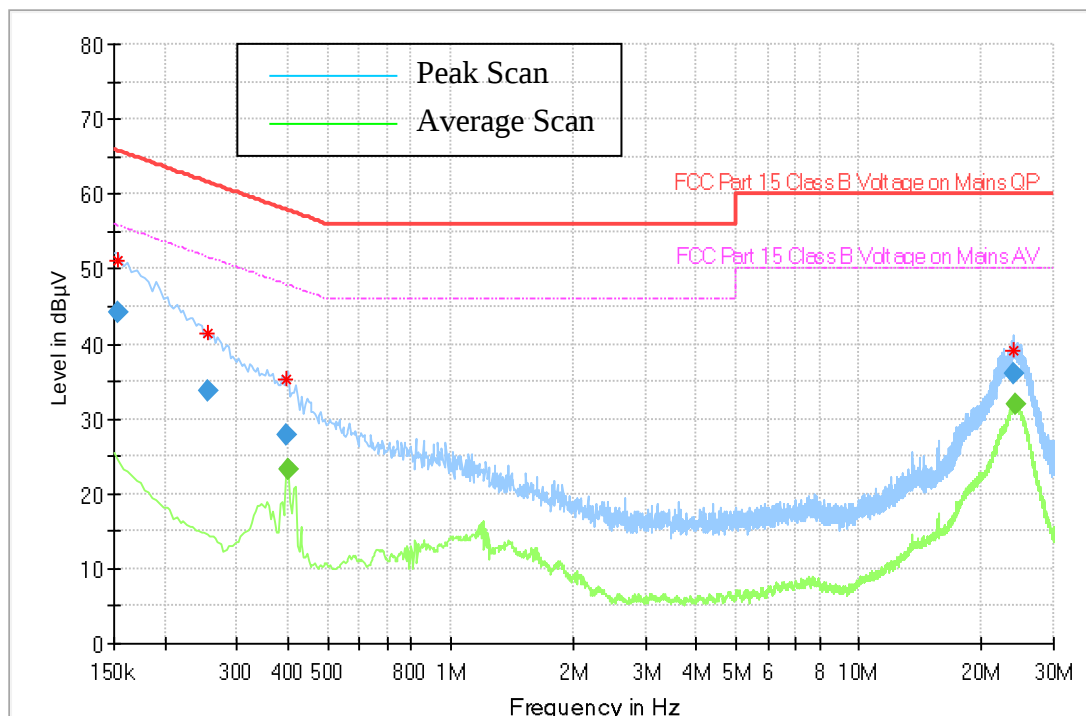
Quasi-Peak and Average Measurement

Frequency (MHz)	Quasi-Peak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.154000	44.17	---	65.78	21.61	1000.0	9.000	L1	ON	10.4	PASS
0.242000	34.68	---	62.03	27.34	1000.0	9.000	L1	ON	10.2	PASS
0.398000	---	23.97	47.90	23.93	1000.0	9.000	L1	ON	10.3	PASS
0.406000	26.05	---	57.73	31.68	1000.0	9.000	L1	ON	10.3	PASS
23.914000	36.02	---	60.00	23.98	1000.0	9.000	N	ON	10.4	PASS
24.154000	---	32.01	50.00	17.99	1000.0	9.000	N	ON	10.4	PASS

* Expanded Uncertainty (U) = +/- 3.48dB

6) EUT Tx CH: 2

Full Spectrum



Quasi-Peak and Average Measurement

Frequency (MHz)	Quasi-Peak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.154000	44.20	---	65.78	21.58	1000.0	9.000	N	ON	10.4	PASS
0.254000	33.73	---	61.63	27.89	1000.0	9.000	N	ON	10.2	PASS
0.398000	27.94	---	57.90	29.96	1000.0	9.000	L1	ON	10.3	PASS
0.402000	---	23.32	47.81	24.50	1000.0	9.000	L1	ON	10.3	PASS
24.018000	35.99	---	60.00	24.01	1000.0	9.000	N	ON	10.4	PASS
24.154000	---	32.05	50.00	17.95	1000.0	9.000	N	ON	10.4	PASS

* Expanded Uncertainty (U) = +/- 3.48dB

END OF TEST REPORT