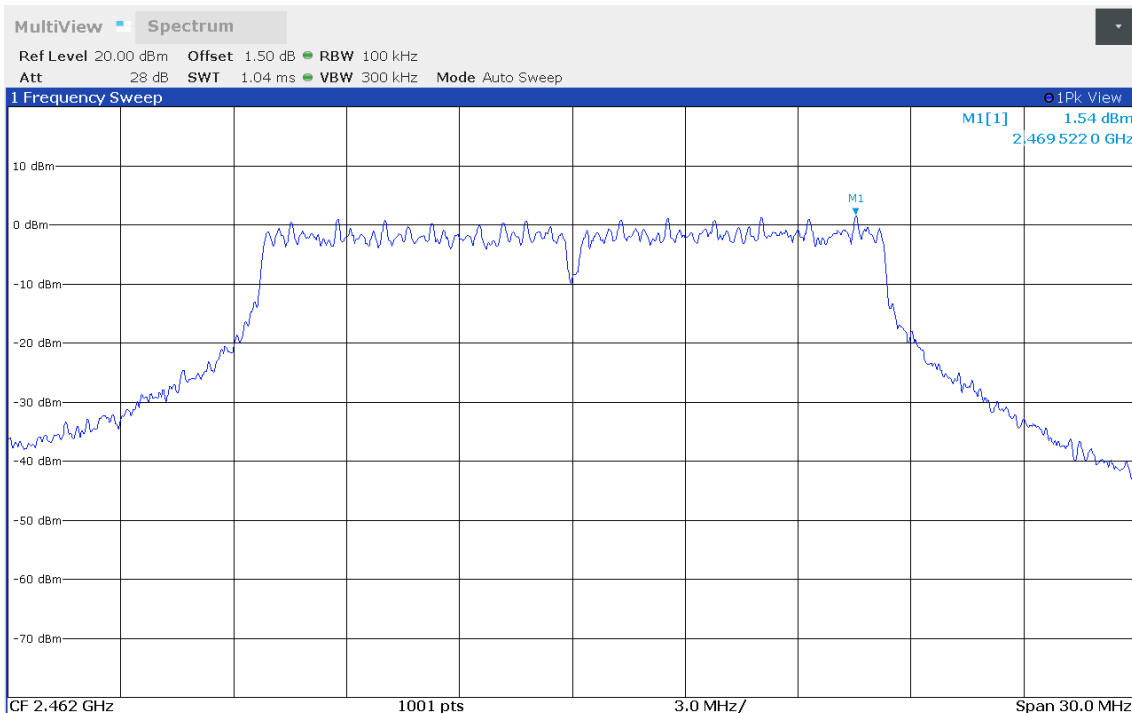


Peak Power Spectral Density

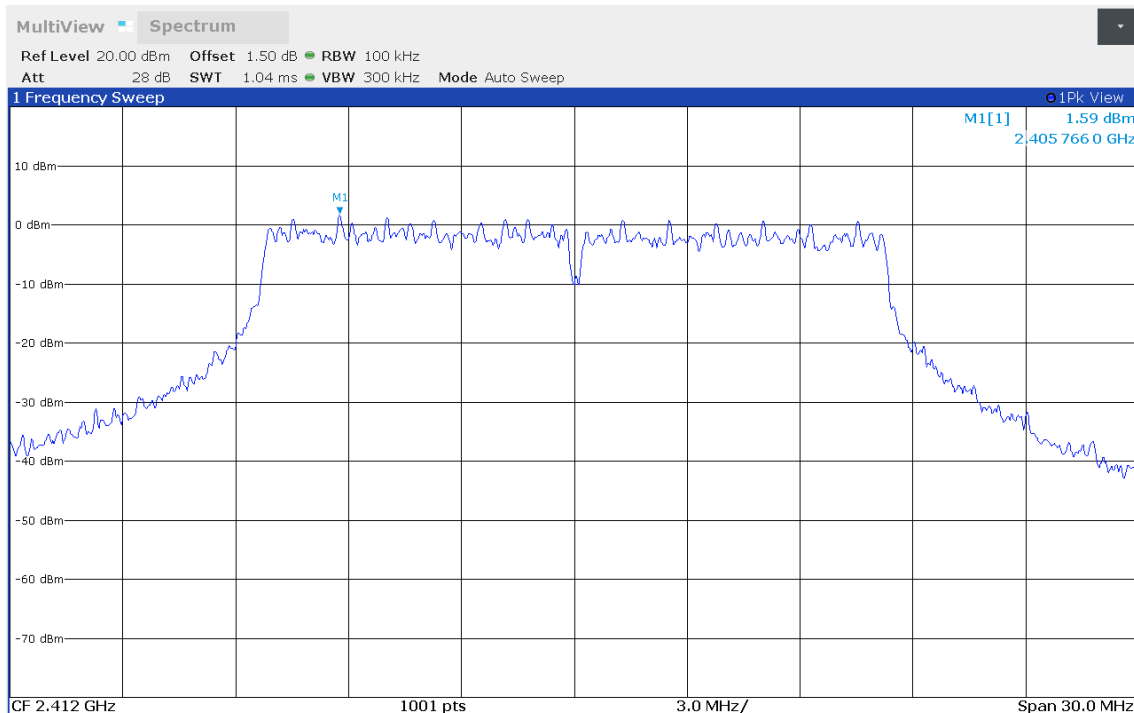
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 g, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 1
 Peak Frequency [MHz]: 2469.522
 Spectral Density [dBm/RBW]: 1.542
 Resolution Bandwidth [kHz]: 100 kHz



14:23:17 11.09.2021

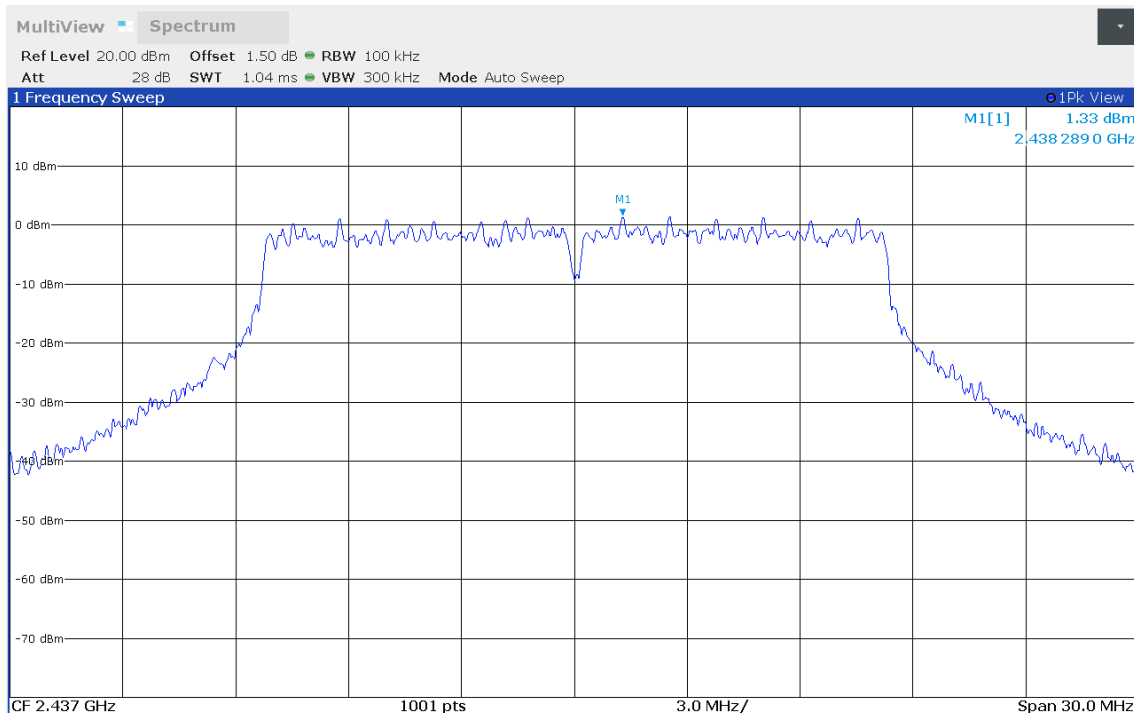
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 g, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Peak Frequency [MHz]: 2405.766
 Spectral Density [dBm/RBW]: 1.587
 Resolution Bandwidth [kHz]: 100 kHz



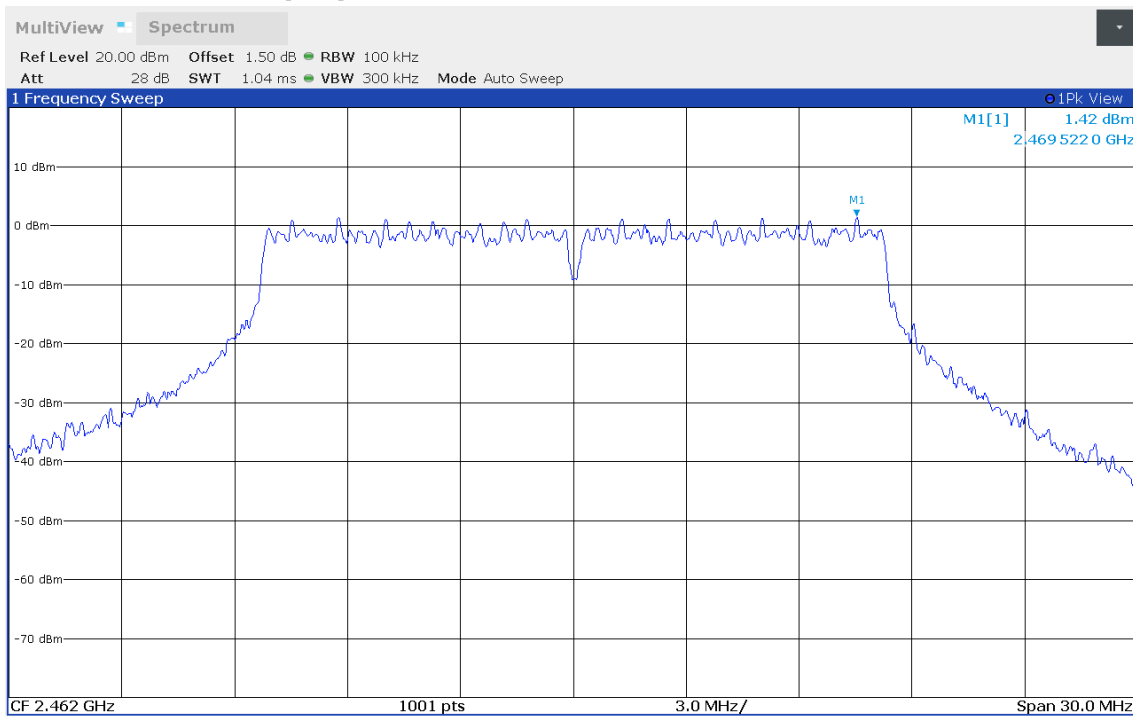
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 g, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Peak Frequency [MHz]: 2438.289
 Spectral Density [dBm/RBW]: 1.332
 Resolution Bandwidth [kHz]: 100 kHz



Peak Power Spectral Density

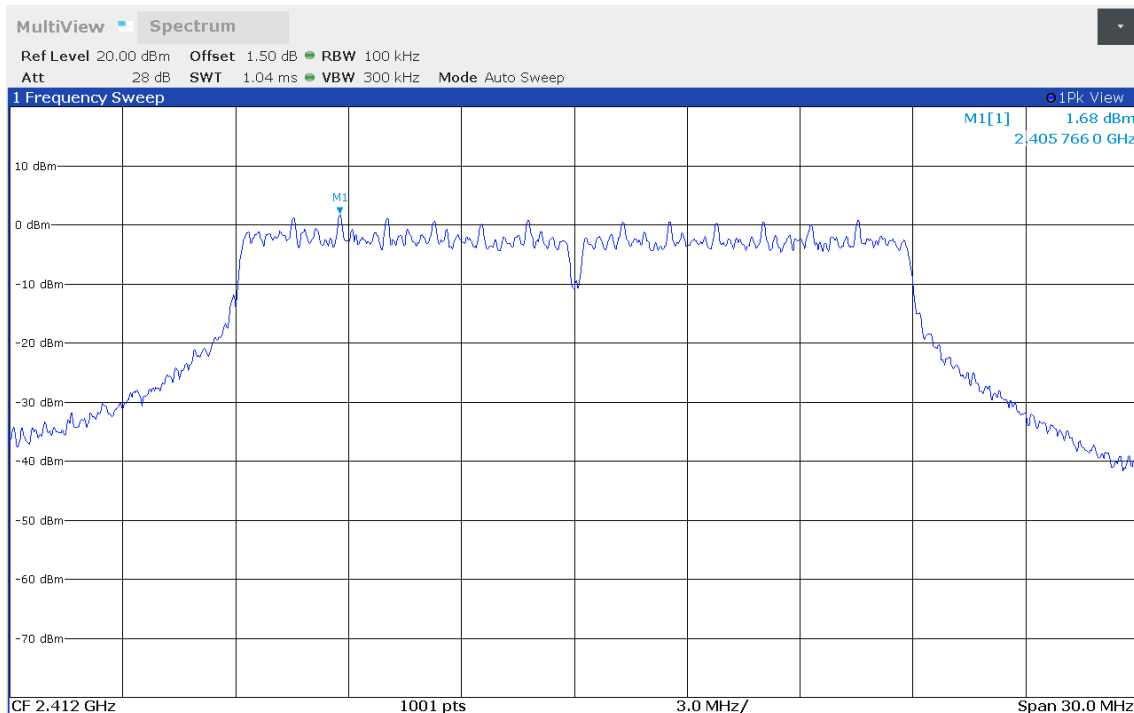
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 g, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Peak Frequency [MHz]: 2469.522
 Spectral Density [dBm/RBW]: 1.417
 Resolution Bandwidth [kHz]: 100 kHz



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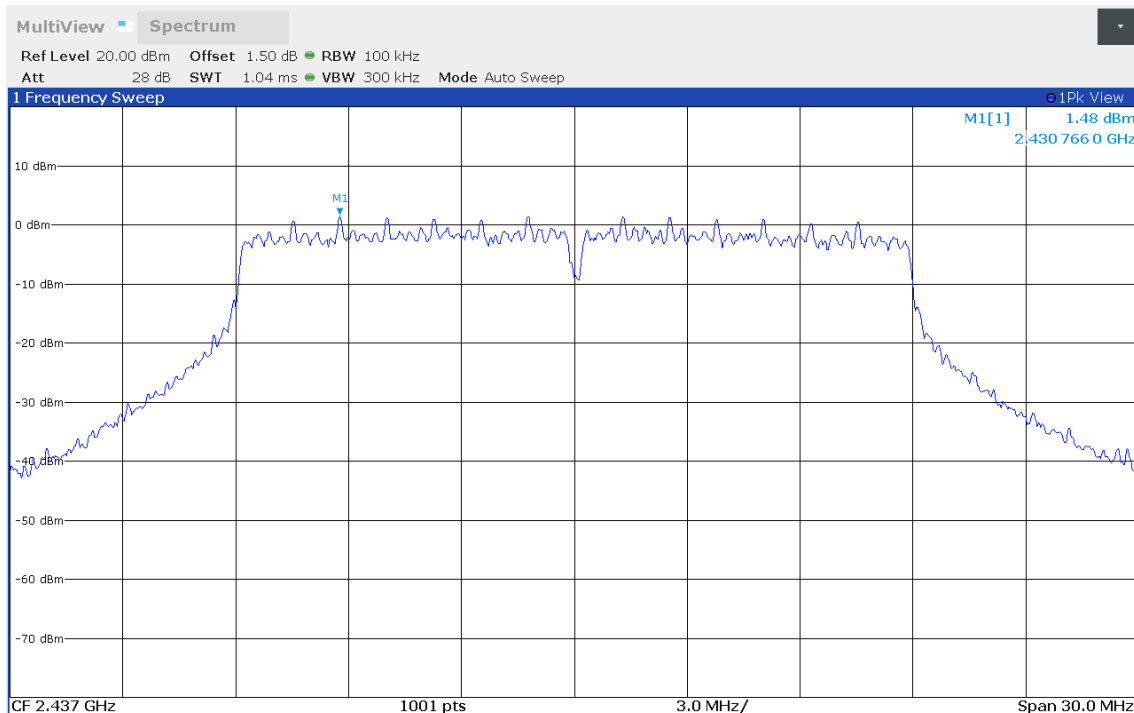
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT20, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Peak Frequency [MHz]: 2405.766
 Spectral Density [dBm/RBW]: 1.680
 Resolution Bandwidth [kHz]: 100 kHz



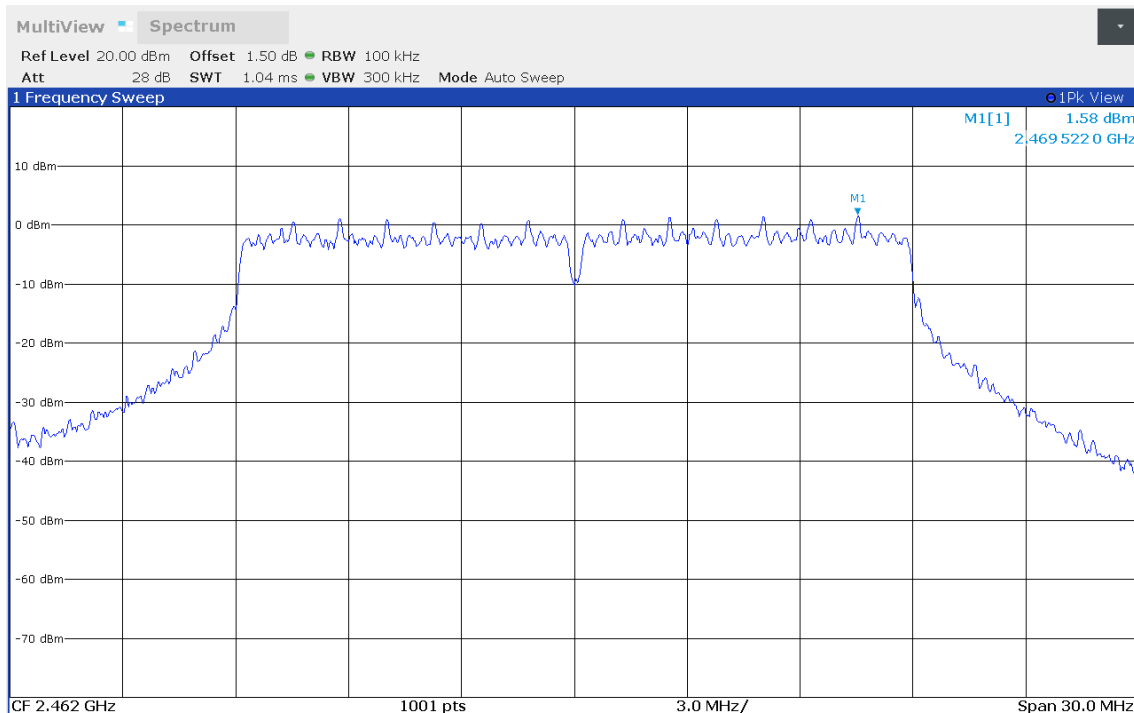
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT20, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Peak Frequency [MHz]: 2430.766
 Spectral Density [dBm/RBW]: 1.483
 Resolution Bandwidth [kHz]: 100 kHz



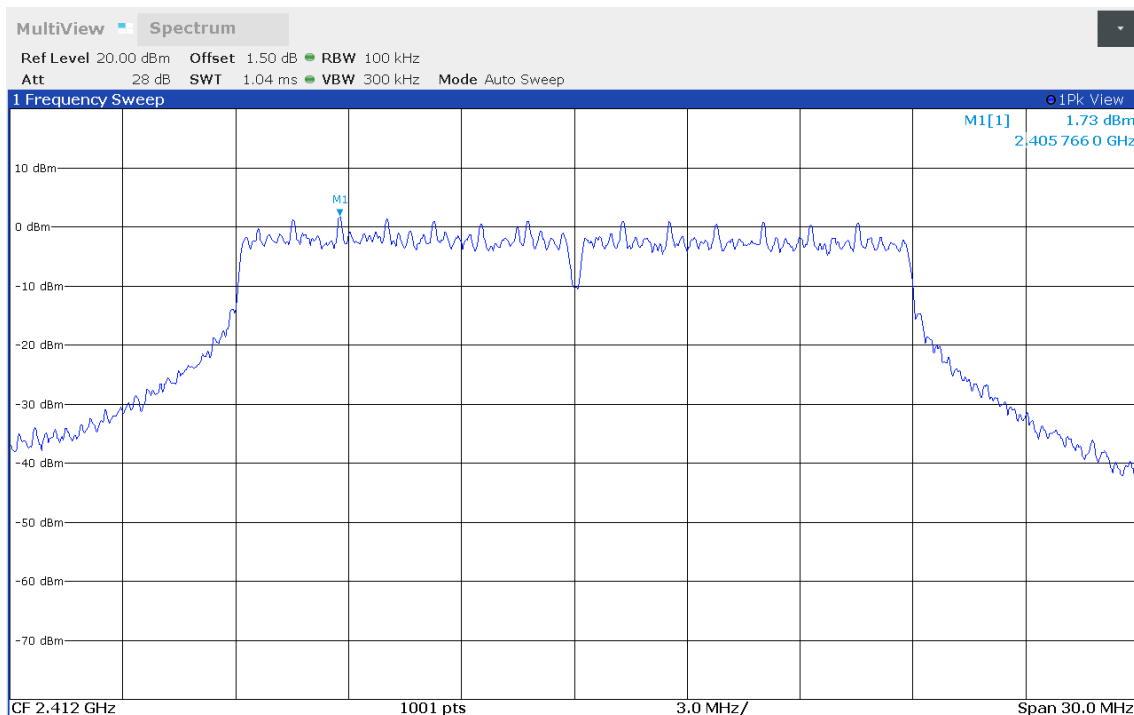
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT20, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Peak Frequency [MHz]: 2469.522
 Spectral Density [dBm/RBW]: 1.577
 Resolution Bandwidth [kHz]: 100 kHz



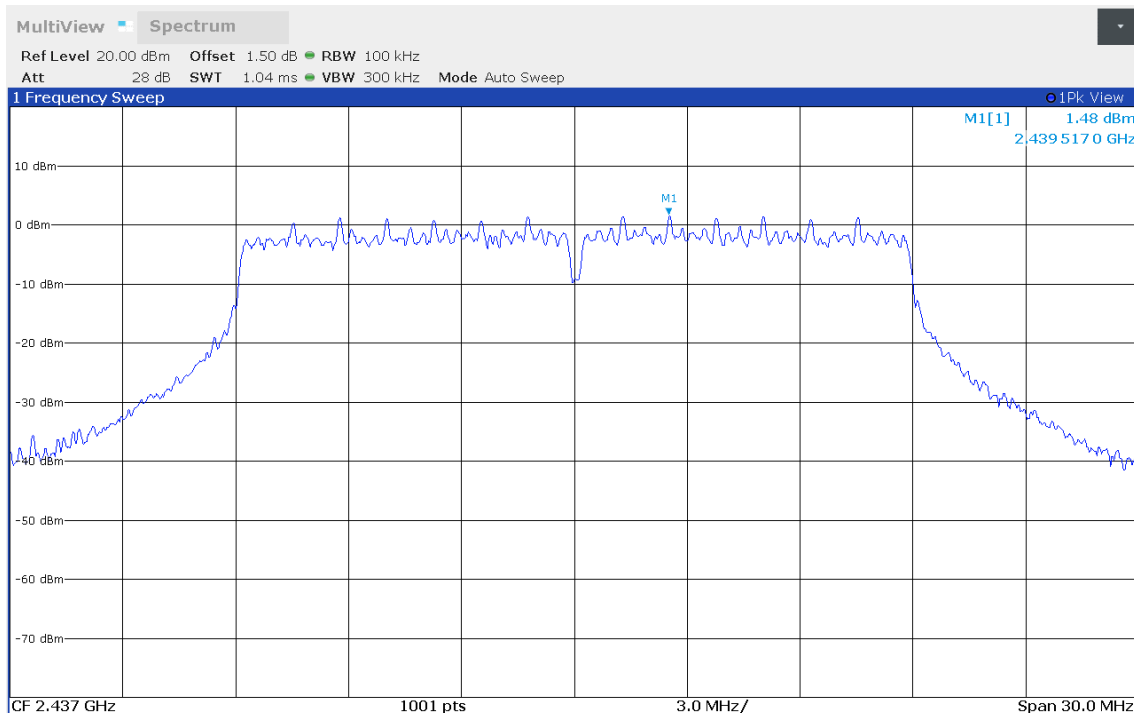
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT20, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Peak Frequency [MHz]: 2405.766
 Spectral Density [dBm/RBW]: 1.727
 Resolution Bandwidth [kHz]: 100 kHz



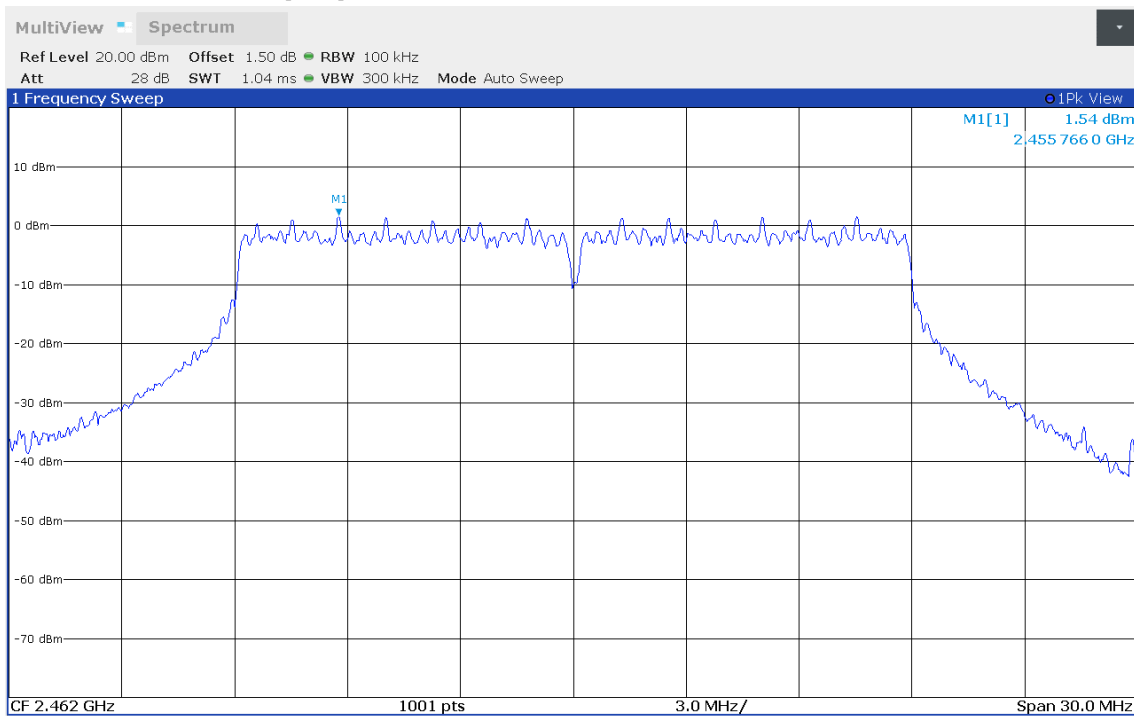
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT20, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Peak Frequency [MHz]: 2439.517
 Spectral Density [dBm/RBW]: 1.485
 Resolution Bandwidth [kHz]: 100 kHz



Peak Power Spectral Density

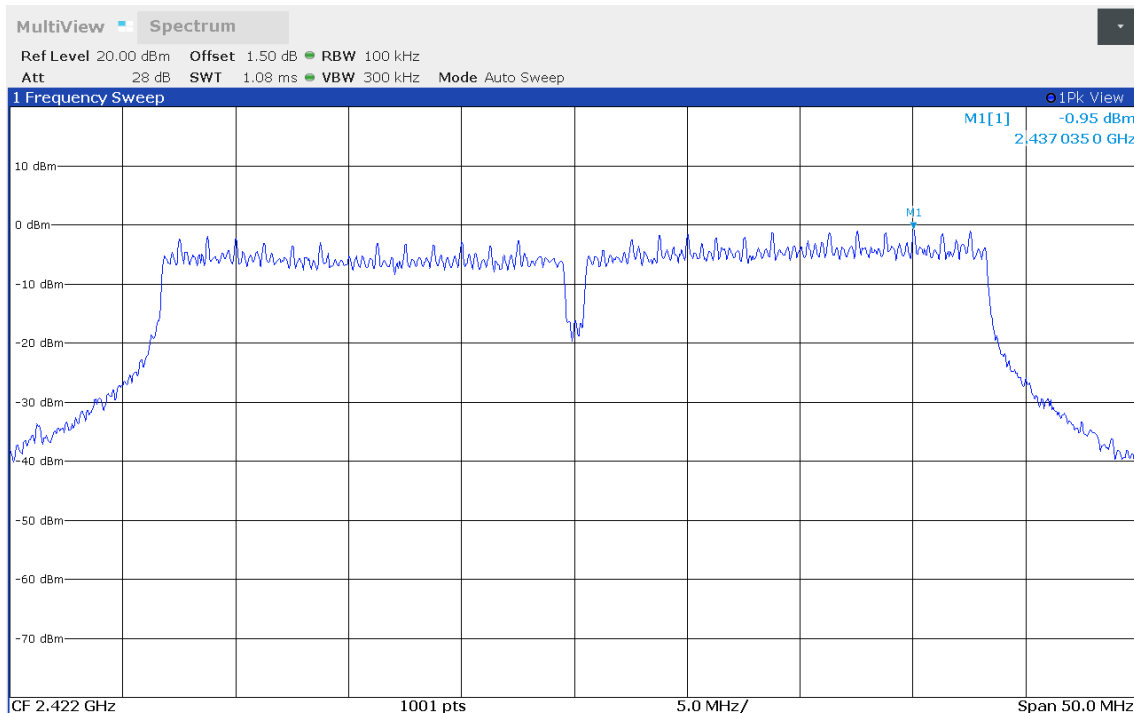
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 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
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 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT20, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Peak Frequency [MHz]: 2455.766
 Spectral Density [dBm/RBW]: 1.542
 Resolution Bandwidth [kHz]: 100 kHz



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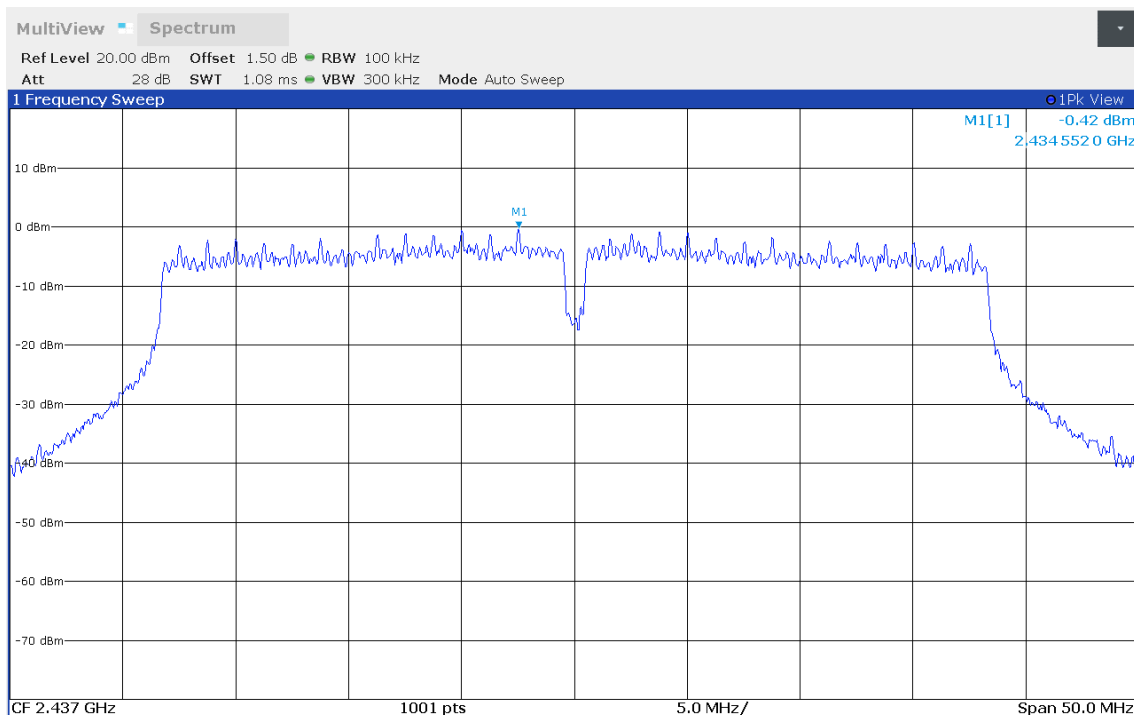
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT40, Channel: 3, 2422 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Peak Frequency [MHz]: 2437.035
 Spectral Density [dBm/RBW]: -0.945
 Resolution Bandwidth [kHz]: 100 kHz



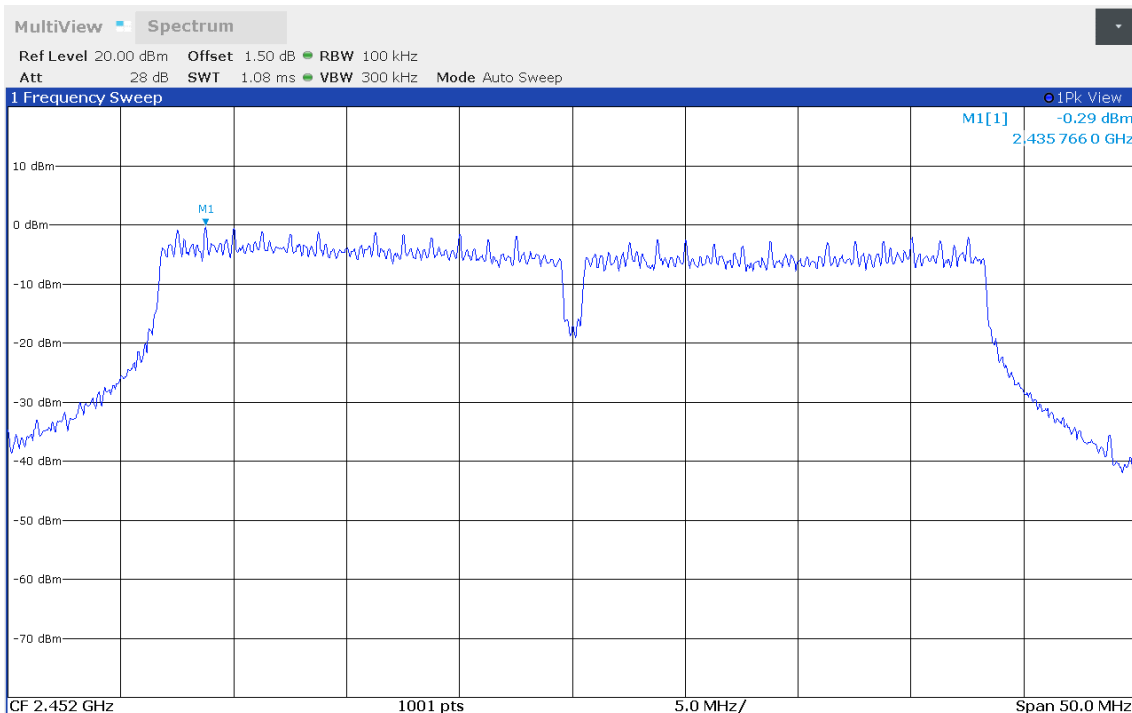
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT40, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Peak Frequency [MHz]: 2434.552
 Spectral Density [dBm/RBW]: -0.421
 Resolution Bandwidth [kHz]: 100 kHz



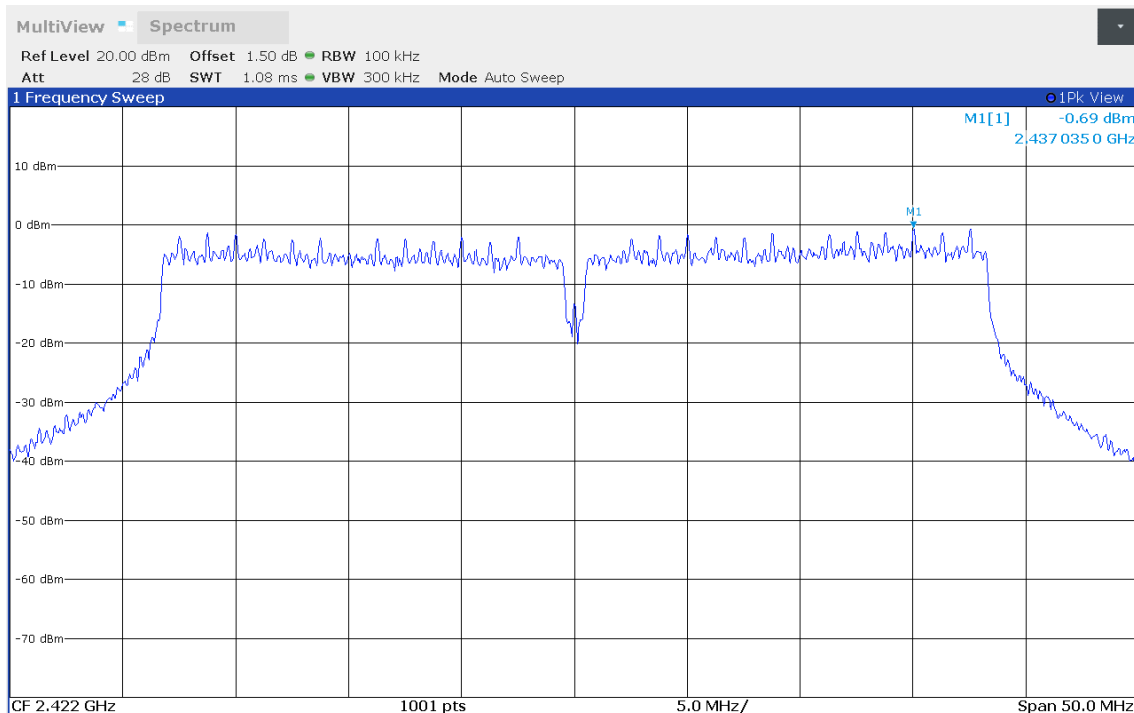
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT40, Channel: 9, 2452 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Peak Frequency [MHz]: 2435.766
 Spectral Density [dBm/RBW]: -0.287
 Resolution Bandwidth [kHz]: 100 kHz



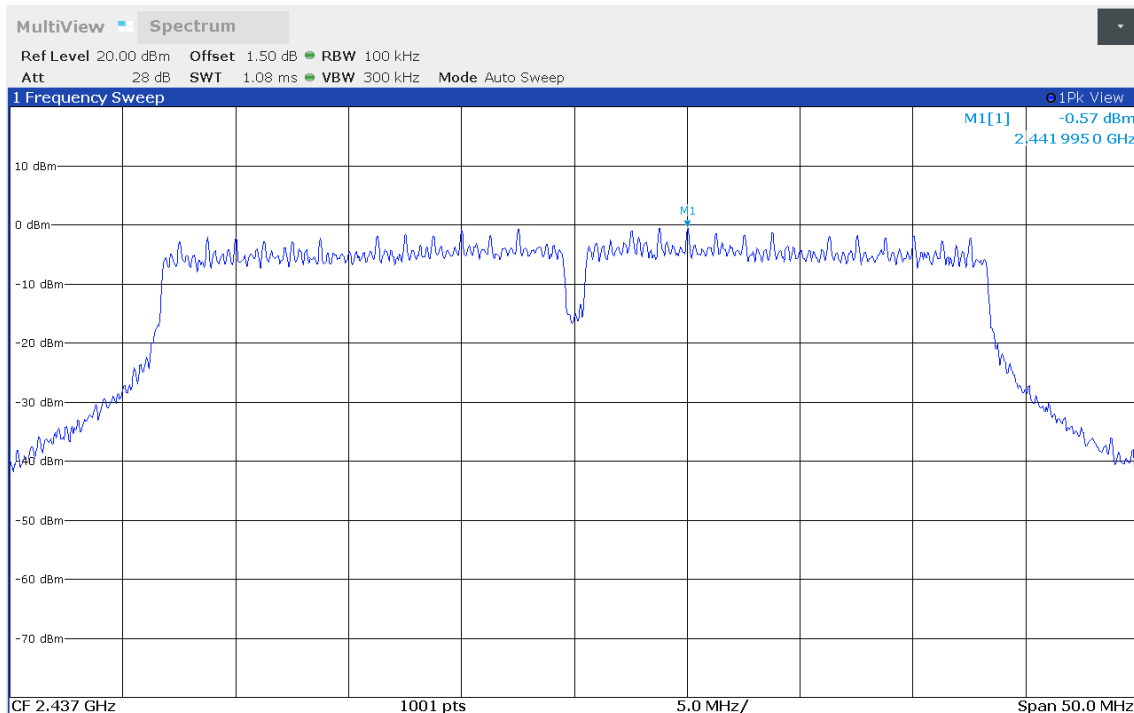
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT40, Channel: 3, 2422 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Peak Frequency [MHz]: 2437.035
 Spectral Density [dBm/RBW]: -0.688
 Resolution Bandwidth [kHz]: 100 kHz



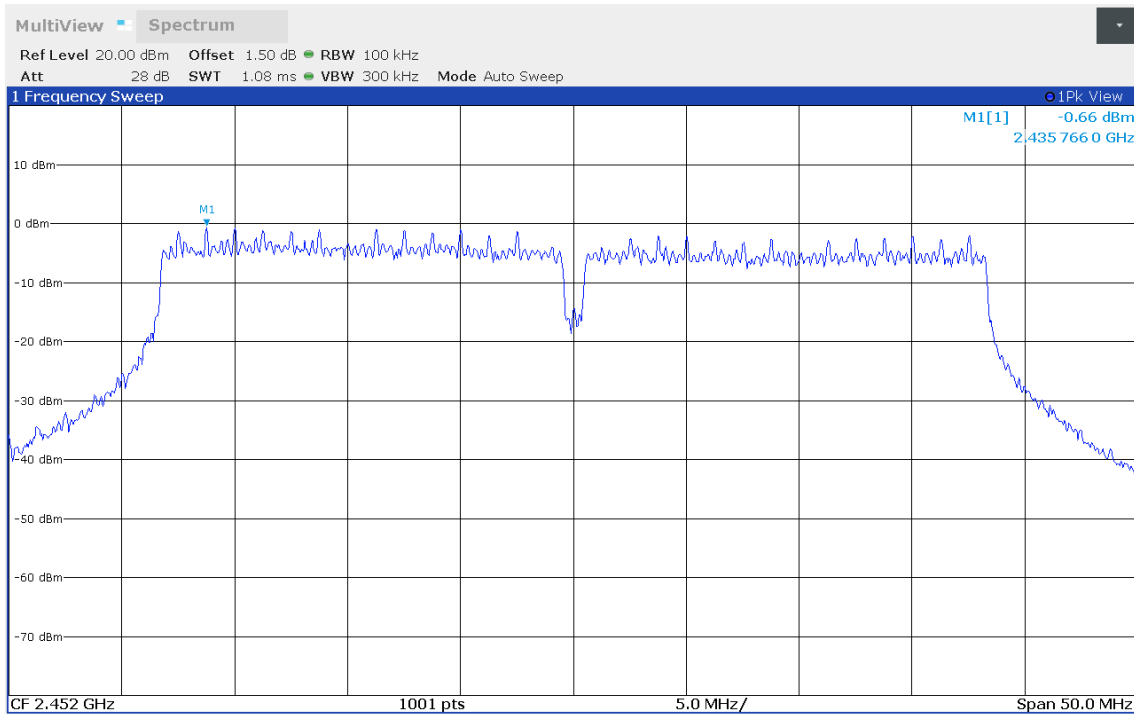
Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT40, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Peak Frequency [MHz]: 2441.995
 Spectral Density [dBm/RBW]: -0.566
 Resolution Bandwidth [kHz]: 100 kHz



Peak Power Spectral Density

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: IEEE 802.11 n HT40, Channel: 9, 2452 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Peak Frequency [MHz]: 2435.766
 Spectral Density [dBm/RBW]: -0.662
 Resolution Bandwidth [kHz]: 100 kHz



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3.5 Test Conditions and Results - Band-edge compliance

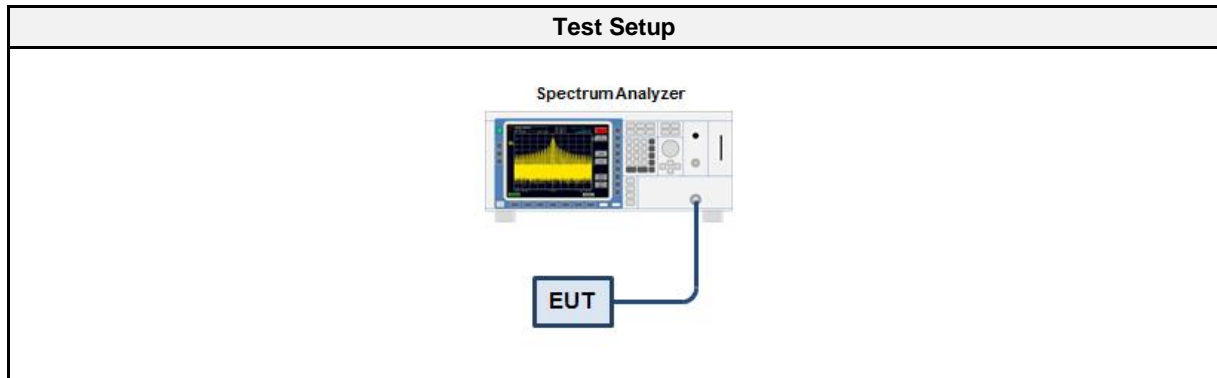
3.5.1 Information

Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 2 (section 5.5)
Measurement Uncertainty	± 3.64 dB
Measurement Method	ANSI C63.10 11.13
Operator	Toralf Jahn
Date	2021-09-11

3.5.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.5.3 Setup



3.5.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSW 43	EF00896	2021-07	2022-07
Cable (diverse)	– (diverse)	– (diverse)	EF00779 CAABD	2020-12	2021-12

3.5.5 Procedure

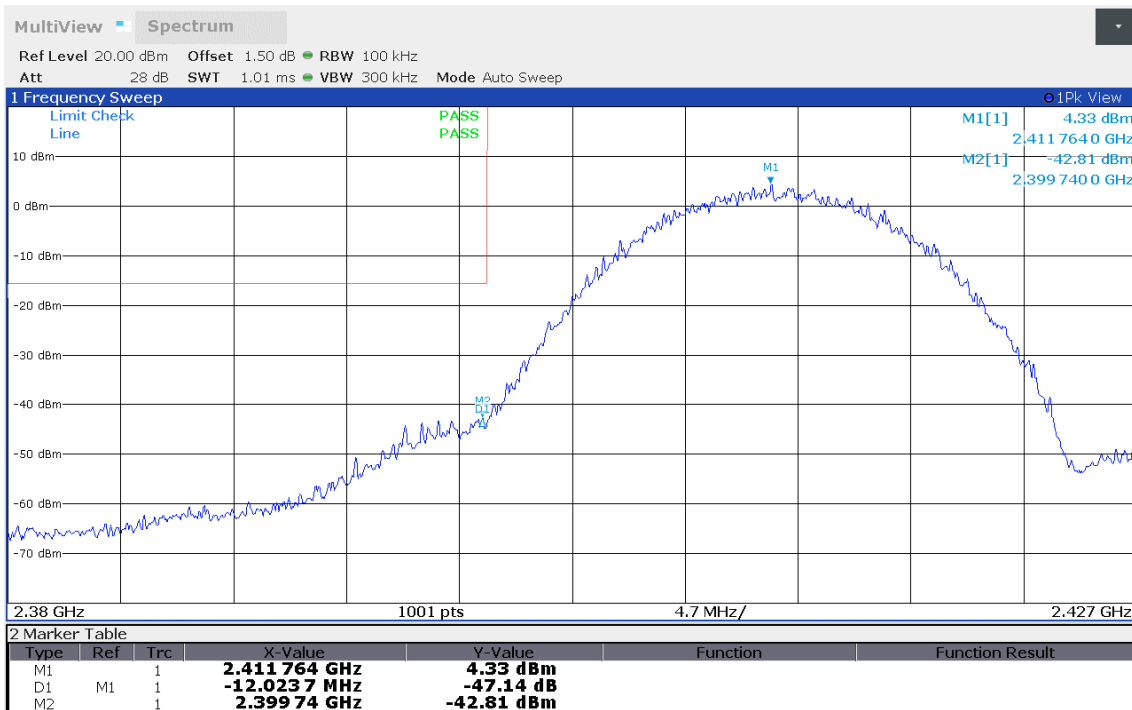
Test Procedure
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference

3.5.6 Results

Test Results					
Port	Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
1	DSSS	2412	-47.14	-20	PASS
1	DSSS	2462	-61.36	-20	PASS
1	OFDM	2412	-32.59	-20	PASS
1	OFDM	2462	-52.72	-20	PASS
1	HT20	2412	-31.69	-20	PASS
1	HT20	2462	-49.44	-20	PASS
1	HT40	2422	-32.46	-20	PASS
1	HT40	2452	-42.93	-20	PASS
2	DSSS	2412	-48.18	-20	PASS
2	DSSS	2462	-62.70	-20	PASS
2	OFDM	2412	-32.81	-20	PASS
2	OFDM	2462	-51.47	-20	PASS
2	HT20	2412	-31.14	-20	PASS
2	HT20	2462	-49.05	-20	PASS
2	HT40	2422	-31.29	-20	PASS
2	HT40	2452	-45.25	-20	PASS

Emissions in nonrestricted frequency bands at the Band-edge

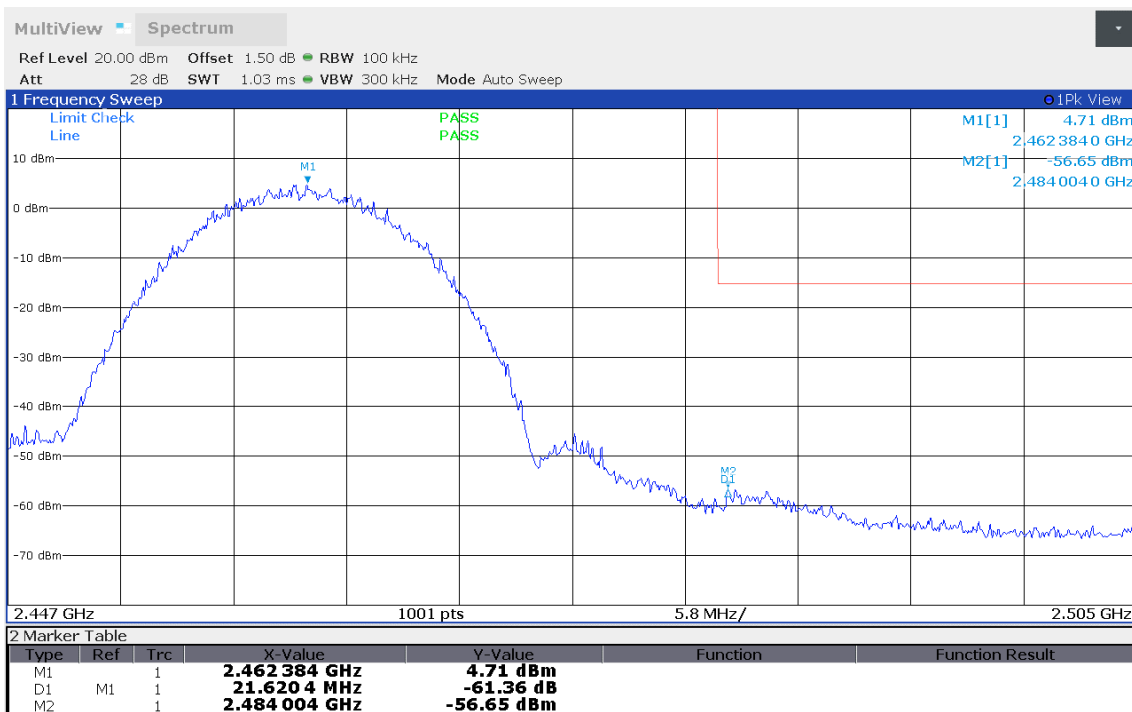
Project Number: GOM-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 b, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 1
 Band-edge: Lower
 In-band Frequency [MHz]: 2411.764
 Max. in-band Level [dBm/100 kHz]: 4.331
 Out-of-band Frequency [MHz]: 2399.74
 Max. out-of-band Level [dBm/100 kHz]: -42.807
 Attenuation [dB]: -47.14



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Emissions in nonrestricted frequency bands at the Band-edge

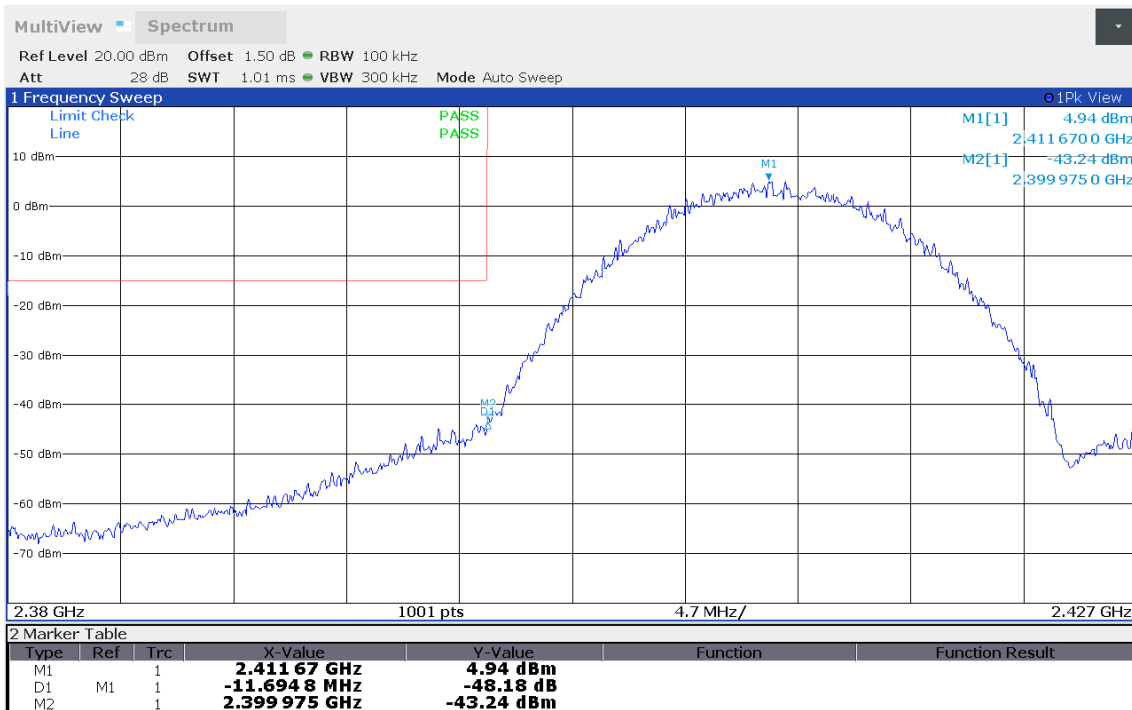
Project Number: GOM-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 b, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 1
 Band-edge: Upper
 In-band Frequency [MHz]: 2462.384
 Max. in-band Level [dBm/100 kHz]: 4.709
 Out-of-band Frequency [MHz]: 2484.004
 Max. out-of-band Level [dBm/100 kHz]: -56.647
 Attenuation [dB]: -61.36



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Emissions in nonrestricted frequency bands at the Band-edge

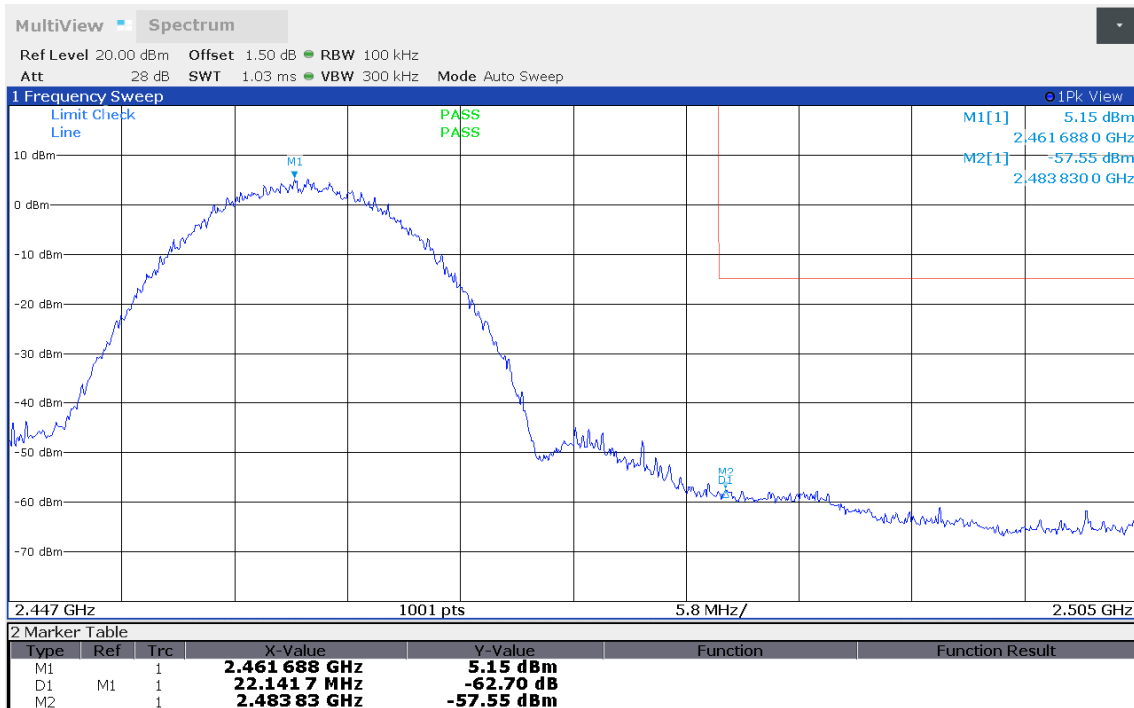
Project Number: GOM-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 b, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Band-edge: Lower
 In-band Frequency [MHz]: 2411.67
 Max. in-band Level [dBm/100 kHz]: 4.943
 Out-of-band Frequency [MHz]: 2399.975
 Max. out-of-band Level [dBm/100 kHz]: -43.24
 Attenuation [dB]: -48.18



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Emissions in nonrestricted frequency bands at the Band-edge

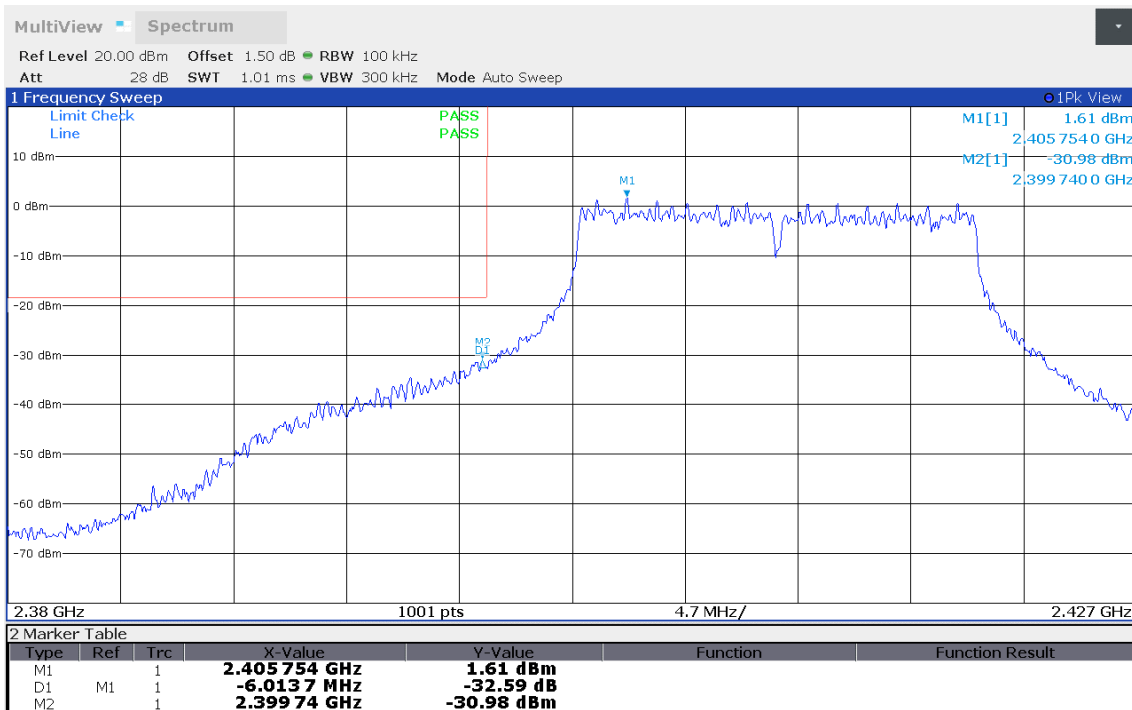
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 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 b, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Band-edge: Upper
 In-band Frequency [MHz]: 2461.688
 Max. in-band Level [dBm/100 kHz]: 5.155
 Out-of-band Frequency [MHz]: 2483.83
 Max. out-of-band Level [dBm/100 kHz]: -57.547
 Attenuation [dB]: -62.7



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Emissions in nonrestricted frequency bands at the Band-edge

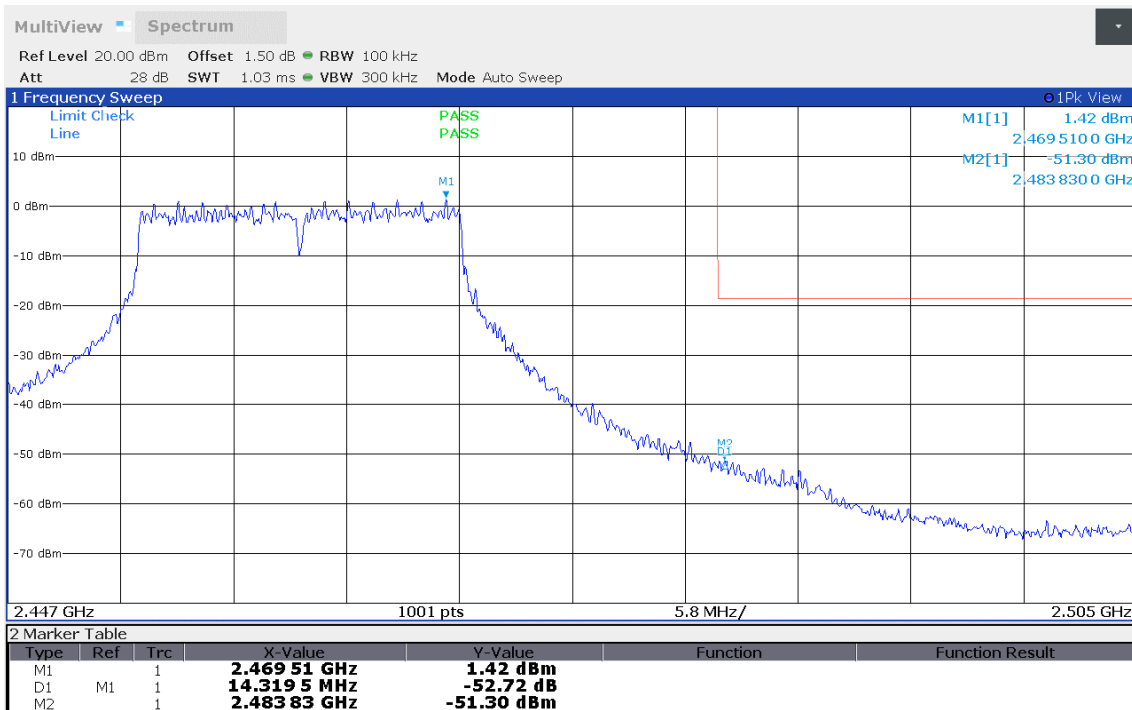
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 g, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 1
 Band-edge: Lower
 In-band Frequency [MHz]: 2405.754
 Max. in-band Level [dBm/100 kHz]: 1.607
 Out-of-band Frequency [MHz]: 2399.74
 Max. out-of-band Level [dBm/100 kHz]: -30.978
 Attenuation [dB]: -32.59



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Emissions in nonrestricted frequency bands at the Band-edge

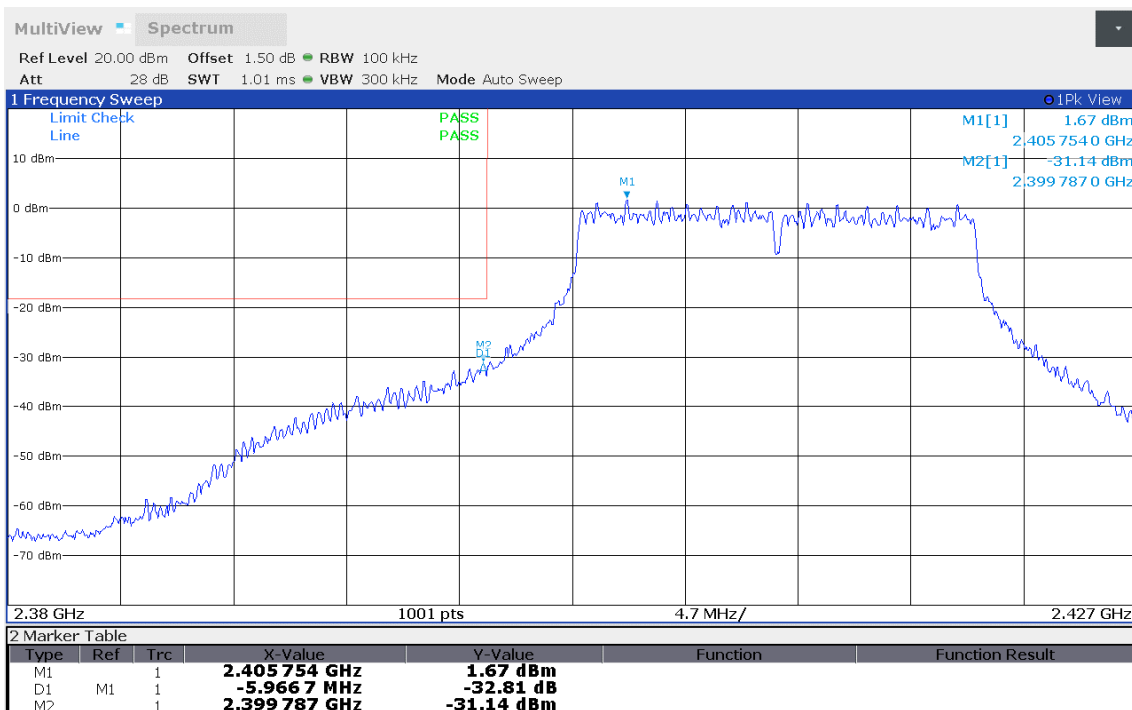
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 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 g, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 1
 Band-edge: Upper
 In-band Frequency [MHz]: 2469.51
 Max. in-band Level [dBm/100 kHz]: 1.422
 Out-of-band Frequency [MHz]: 2483.83
 Max. out-of-band Level [dBm/100 kHz]: -51.302
 Attenuation [dB]: -52.72



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Emissions in nonrestricted frequency bands at the Band-edge

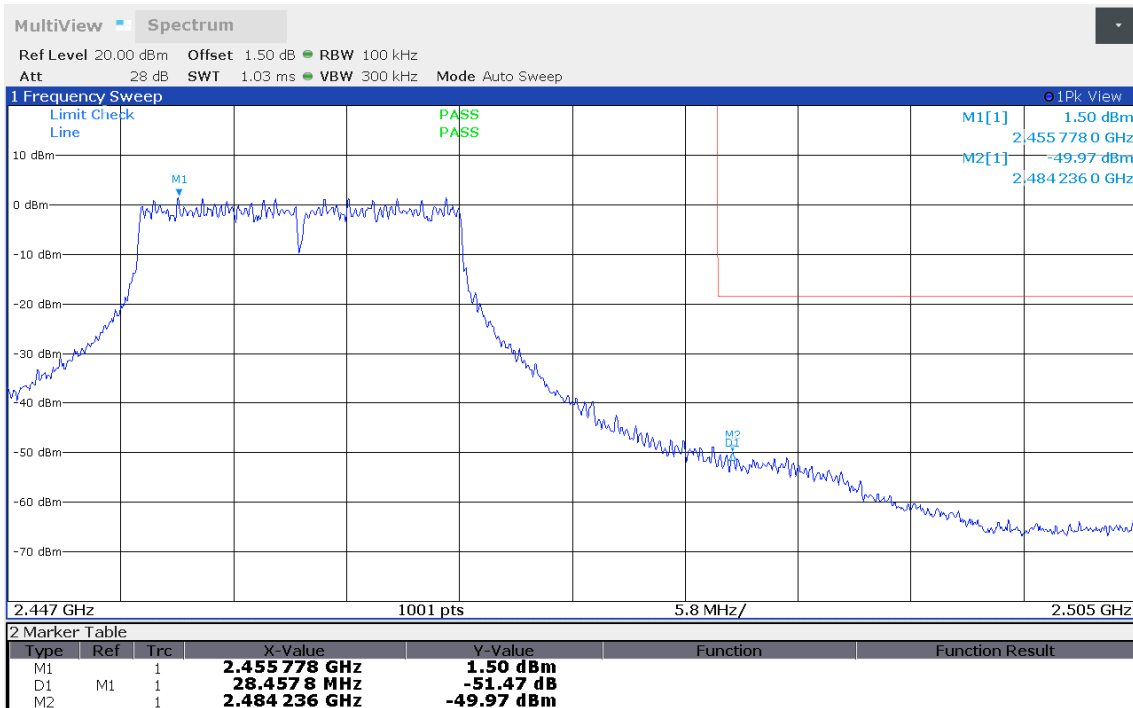
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 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 g, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Band-edge: Lower
 In-band Frequency [MHz]: 2405.754
 Max. in-band Level [dBm/100 kHz]: 1.671
 Out-of-band Frequency [MHz]: 2399.787
 Max. out-of-band Level [dBm/100 kHz]: -31.144
 Attenuation [dB]: -32.81



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Emissions in nonrestricted frequency bands at the Band-edge

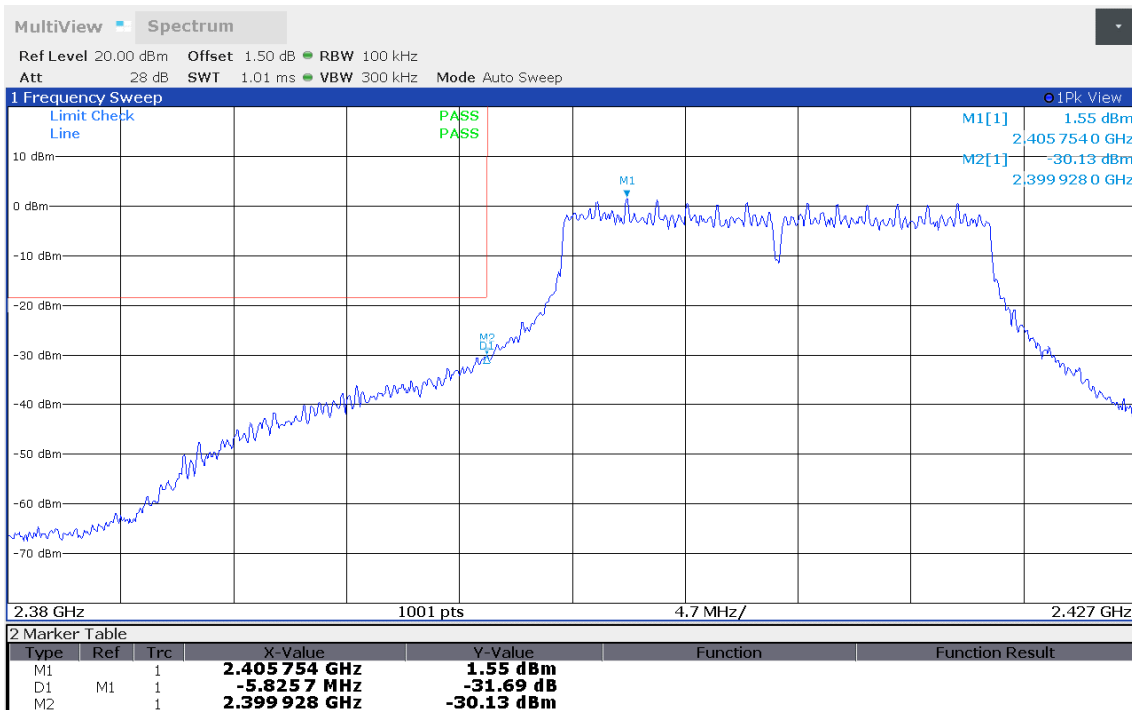
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 g, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Band-edge: Upper
 In-band Frequency [MHz]: 2455.778
 Max. in-band Level [dBm/100 kHz]: 1.501
 Out-of-band Frequency [MHz]: 2484.236
 Max. out-of-band Level [dBm/100 kHz]: -49.972
 Attenuation [dB]: -51.47



14:40:22 11.09.2021

Emissions in nonrestricted frequency bands at the Band-edge

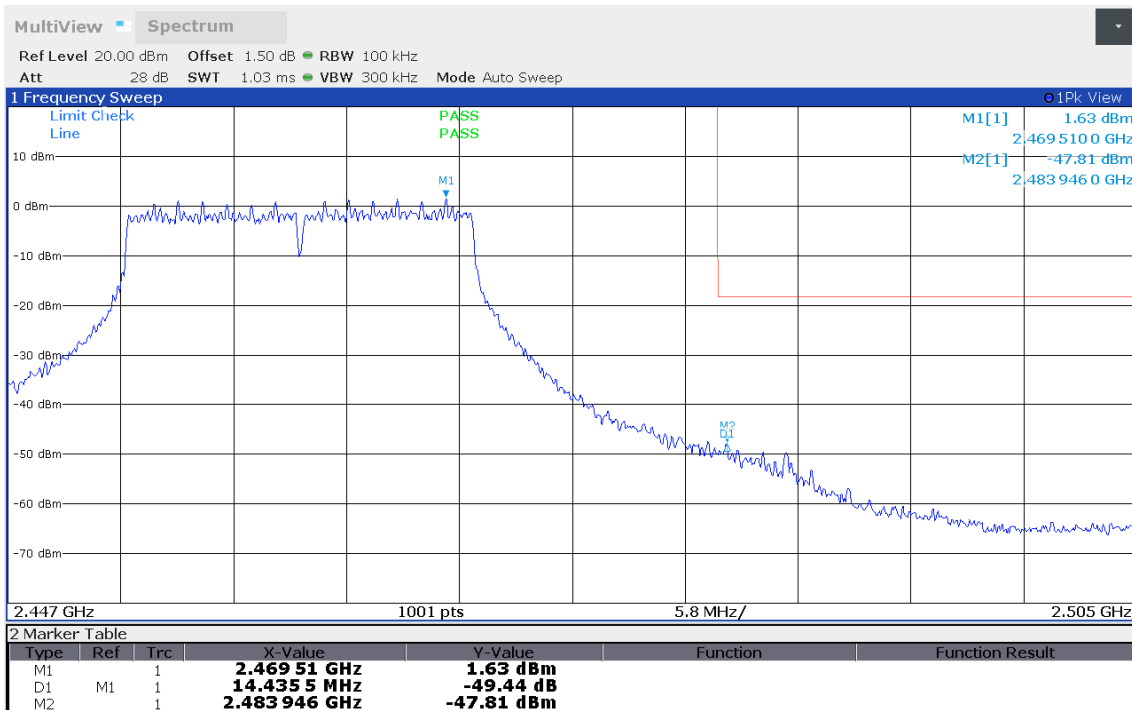
Project Number: GOM-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT20, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Band-edge: Lower
 In-band Frequency [MHz]: 2405.754
 Max. in-band Level [dBm/100 kHz]: 1.554
 Out-of-band Frequency [MHz]: 2399.928
 Max. out-of-band Level [dBm/100 kHz]: -30.132
 Attenuation [dB]: -31.69



14:12:25 18.09.2021

Emissions in nonrestricted frequency bands at the Band-edge

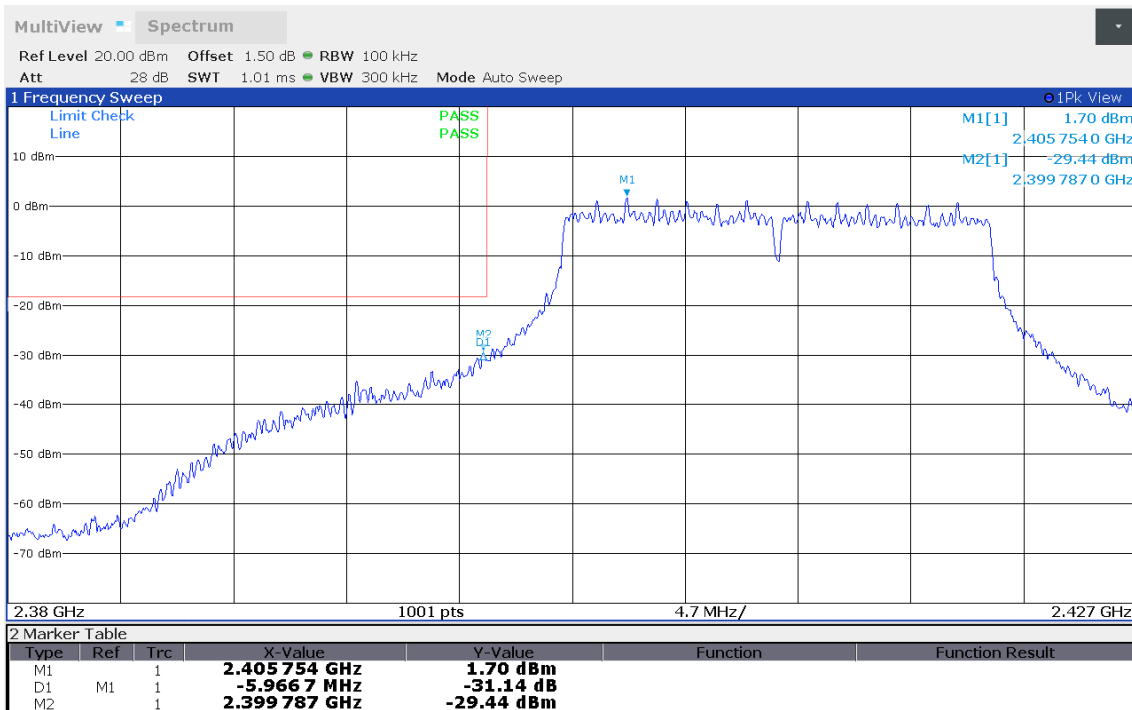
Project Number: GOM-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT20, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Band-edge: Upper
 In-band Frequency [MHz]: 2469.51
 Max. in-band Level [dBm/100 kHz]: 1.631
 Out-of-band Frequency [MHz]: 2483.946
 Max. out-of-band Level [dBm/100 kHz]: -47.812
 Attenuation [dB]: -49.44



14:13:34 18.09.2021

Emissions in nonrestricted frequency bands at the Band-edge

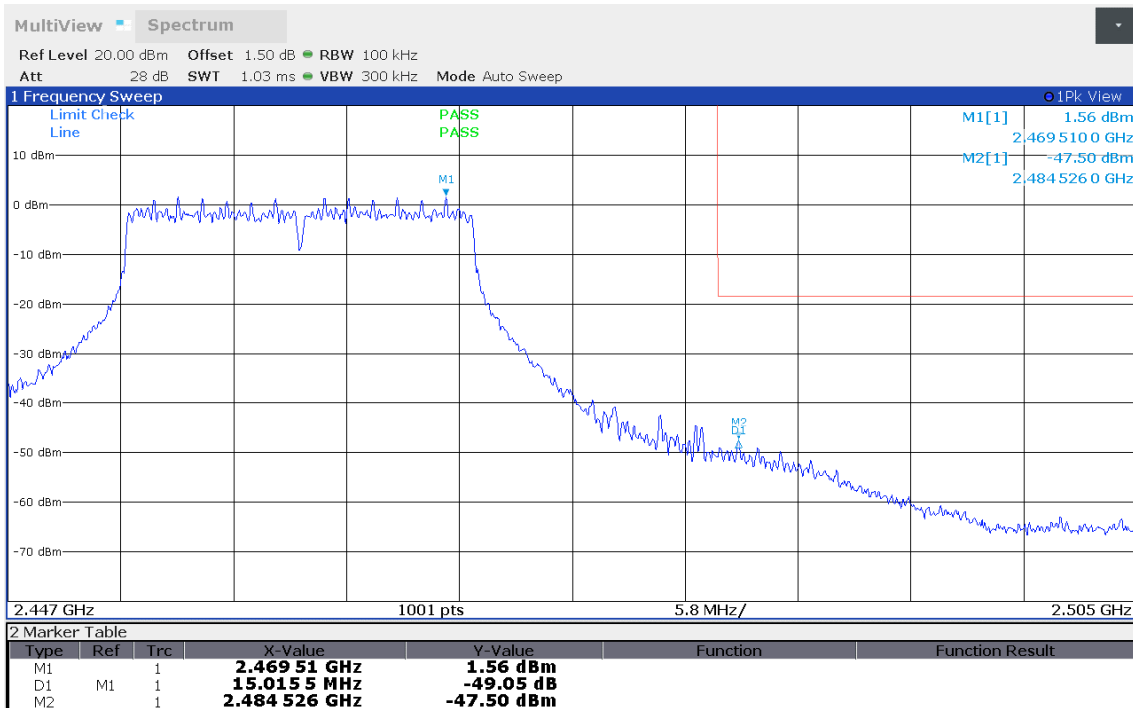
Project Number: GOM-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT20, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Band-edge: Lower
 In-band Frequency [MHz]: 2405.754
 Max. in-band Level [dBm/100 kHz]: 1.697
 Out-of-band Frequency [MHz]: 2399.787
 Max. out-of-band Level [dBm/100 kHz]: -29.443
 Attenuation [dB]: -31.14



14:15:10 18.09.2021

Emissions in nonrestricted frequency bands at the Band-edge

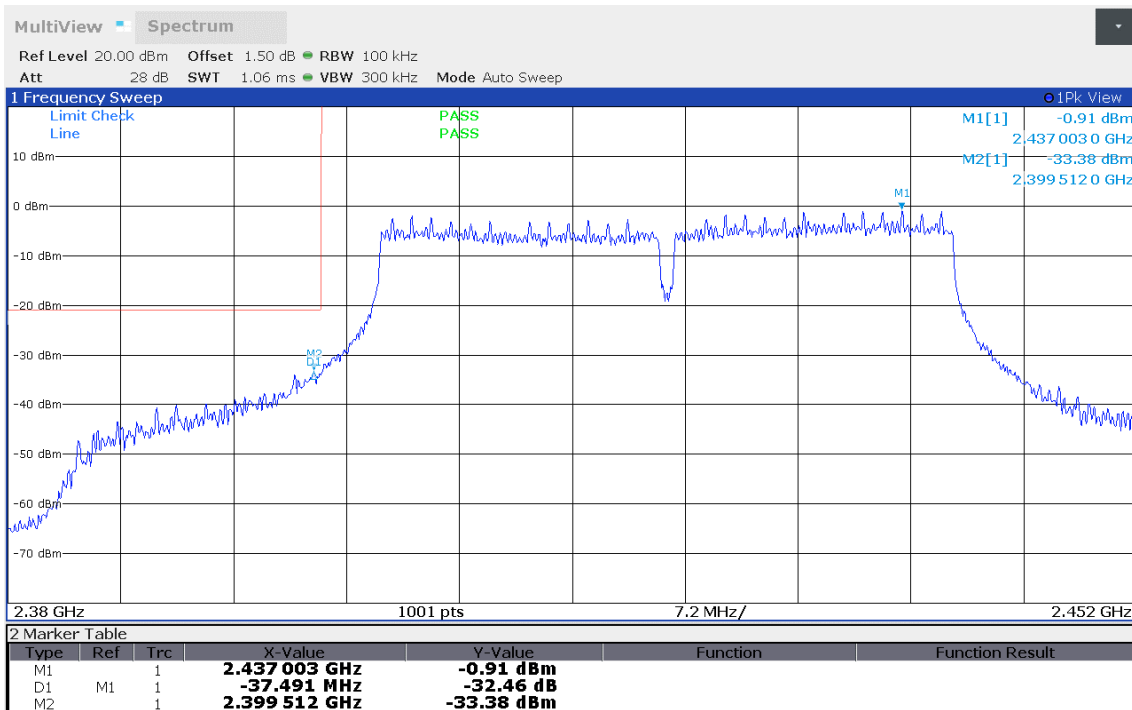
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT20, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Band-edge: Upper
 In-band Frequency [MHz]: 2469.51
 Max. in-band Level [dBm/100 kHz]: 1.555
 Out-of-band Frequency [MHz]: 2484.526
 Max. out-of-band Level [dBm/100 kHz]: -47.497
 Attenuation [dB]: -49.05



14:15:55 18.09.2021

Emissions in nonrestricted frequency bands at the Band-edge

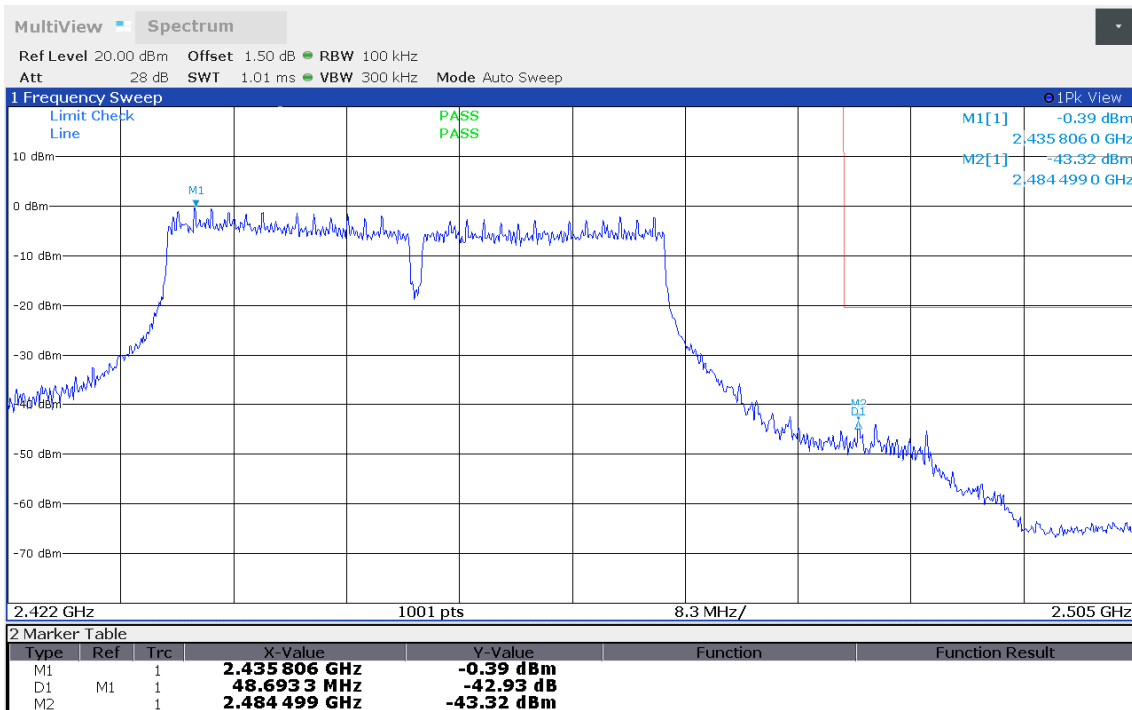
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 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT40, Channel: 3, 2422 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Band-edge: Lower
 In-band Frequency [MHz]: 2437.003
 Max. in-band Level [dBm/100 kHz]: -0.913
 Out-of-band Frequency [MHz]: 2399.512
 Max. out-of-band Level [dBm/100 kHz]: -33.377
 Attenuation [dB]: -32.46



14:05:56 18.09.2021

Emissions in nonrestricted frequency bands at the Band-edge

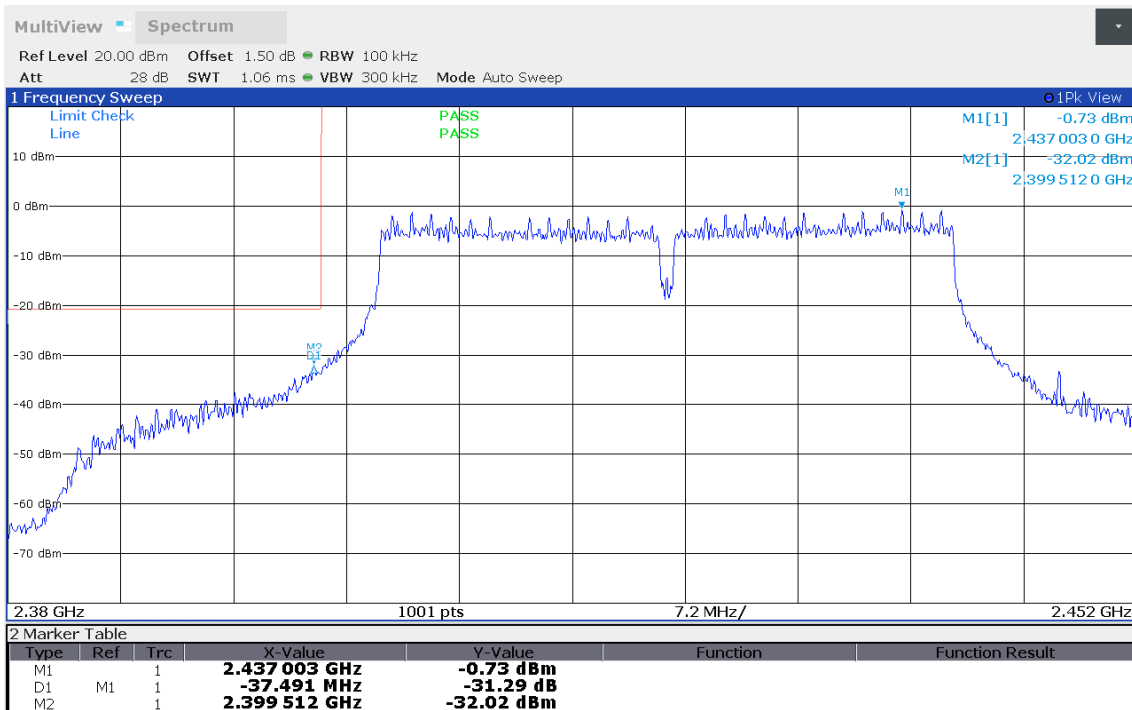
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 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT40, Channel: 9, 2452 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Band-edge: Upper
 In-band Frequency [MHz]: 2435.806
 Max. in-band Level [dBm/100 kHz]: -0.395
 Out-of-band Frequency [MHz]: 2484.499
 Max. out-of-band Level [dBm/100 kHz]: -43.325
 Attenuation [dB]: -42.93



14:07:10 18.09.2021

Emissions in nonrestricted frequency bands at the Band-edge

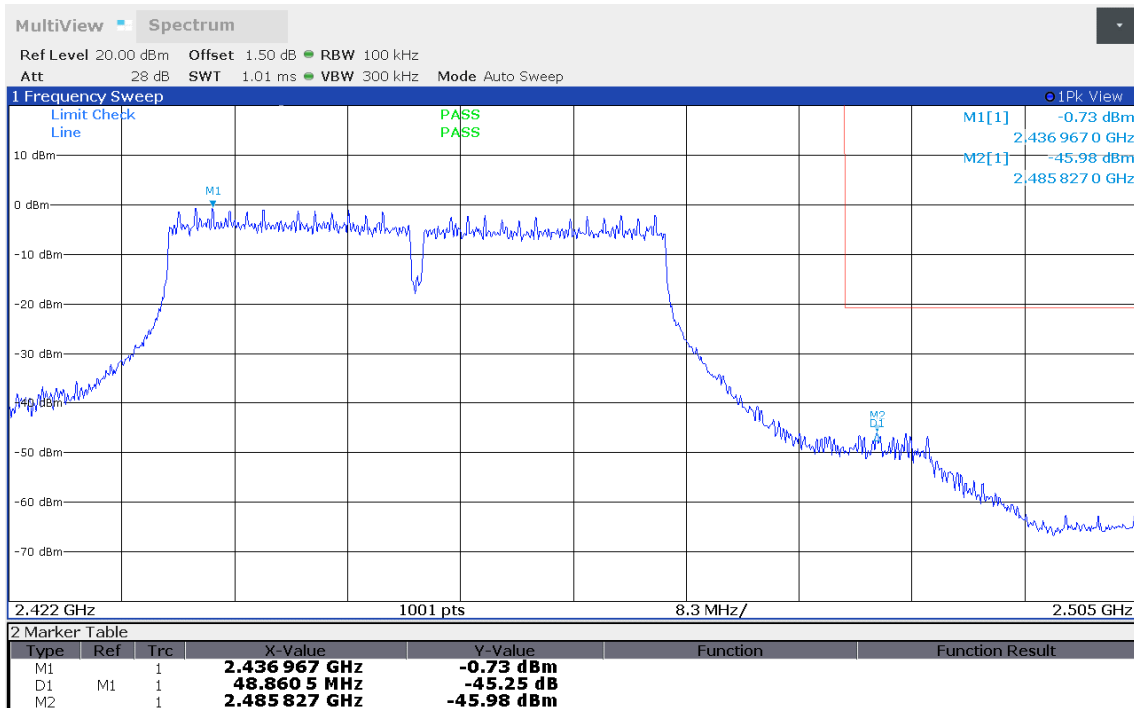
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT40, Channel: 3, 2422 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Band-edge: Lower
 In-band Frequency [MHz]: 2437.003
 Max. in-band Level [dBm/100 kHz]: -0.726
 Out-of-band Frequency [MHz]: 2399.512
 Max. out-of-band Level [dBm/100 kHz]: -32.019
 Attenuation [dB]: -31.29



14:08:30 18.09.2021

Emissions in nonrestricted frequency bands at the Band-edge

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT40, Channel: 9, 2452 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Band-edge: Upper
 In-band Frequency [MHz]: 2436.967
 Max. in-band Level [dBm/100 kHz]: -0.732
 Out-of-band Frequency [MHz]: 2485.827
 Max. out-of-band Level [dBm/100 kHz]: -45.984
 Attenuation [dB]: -45.25



14:09:15 18.09.2021

3.6 Test Conditions and Results - Conducted spurious emissions

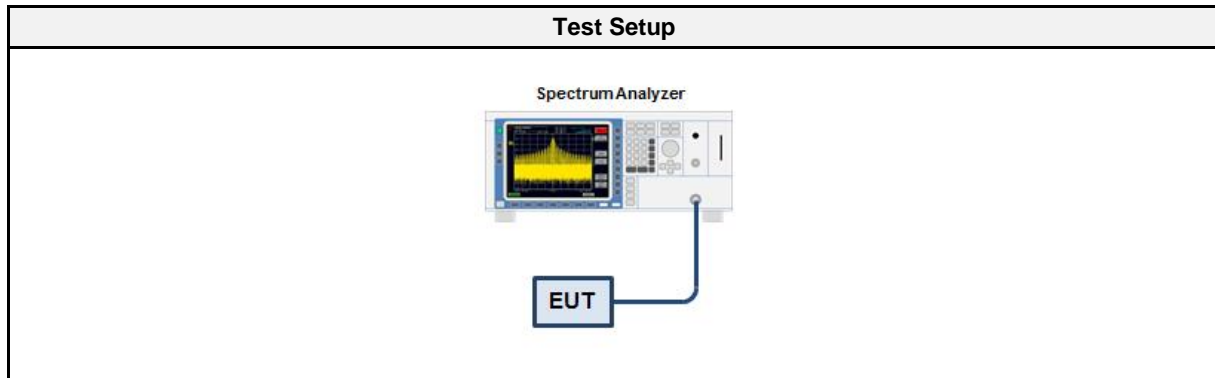
3.6.1 Information

Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 2 (section 5.5)
Measurement Uncertainty	± 4.25 dB
Measurement Method	ANSI C63.10 11.11
Operator	Toralf Jahn
Date	2021-09-11

3.6.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.6.3 Setup



3.6.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSW 43	EF00896	2021-07	2022-07
Cable (diverse)	– (diverse)	– (diverse)	EF00779 CAABD	2020-12	2021-12

3.6.5 Procedure

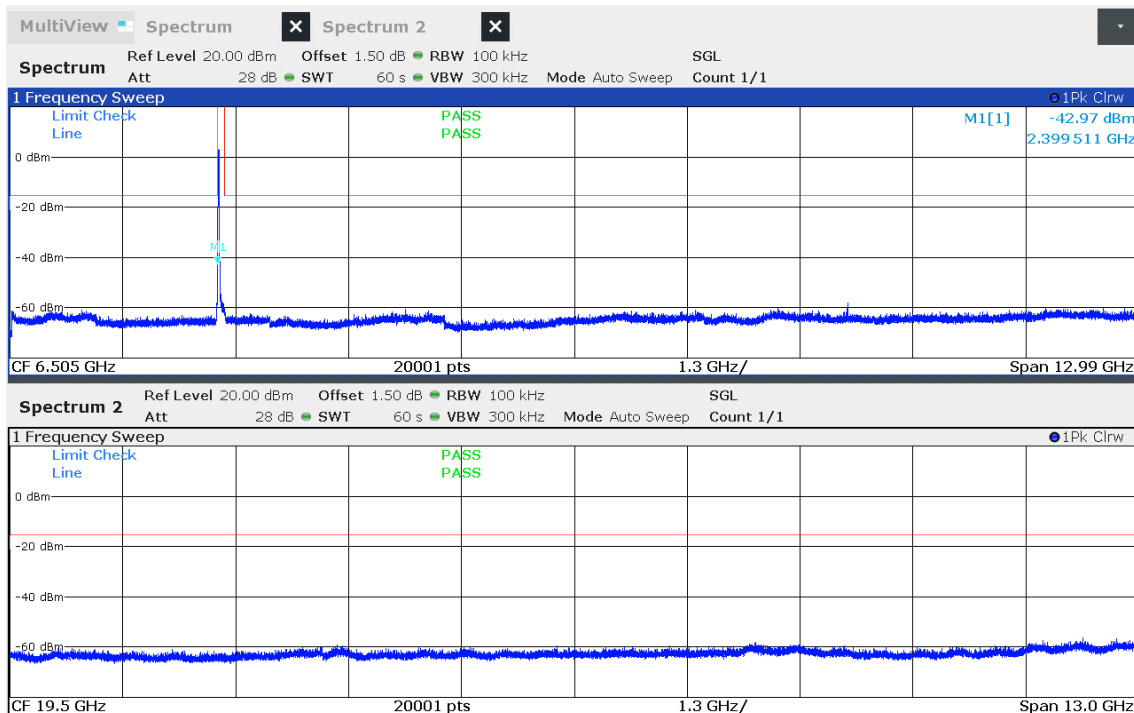
Test Procedure
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels outside frequency band

3.6.6 Results

Test Results			
Port	Mode	Channel [MHz]	Verdict
1	DSSS	2412	PASS
1	DSSS	2437	PASS
1	DSSS	2462	PASS
1	OFDM	2412	PASS
1	OFDM	2437	PASS
1	OFDM	2462	PASS
1	HT20	2412	PASS
1	HT20	2437	PASS
1	HT20	2462	PASS
1	HT40	2422	PASS
1	HT40	2437	PASS
1	HT40	2452	PASS
2	DSSS	2412	PASS
2	DSSS	2437	PASS
2	DSSS	2462	PASS
2	OFDM	2412	PASS
2	OFDM	2437	PASS
2	OFDM	2462	PASS
2	HT20	2412	PASS
2	HT20	2437	PASS
2	HT20	2462	PASS
2	HT40	2422	PASS
2	HT40	2437	PASS
2	HT40	2452	PASS

Conducted Spurious Emissions

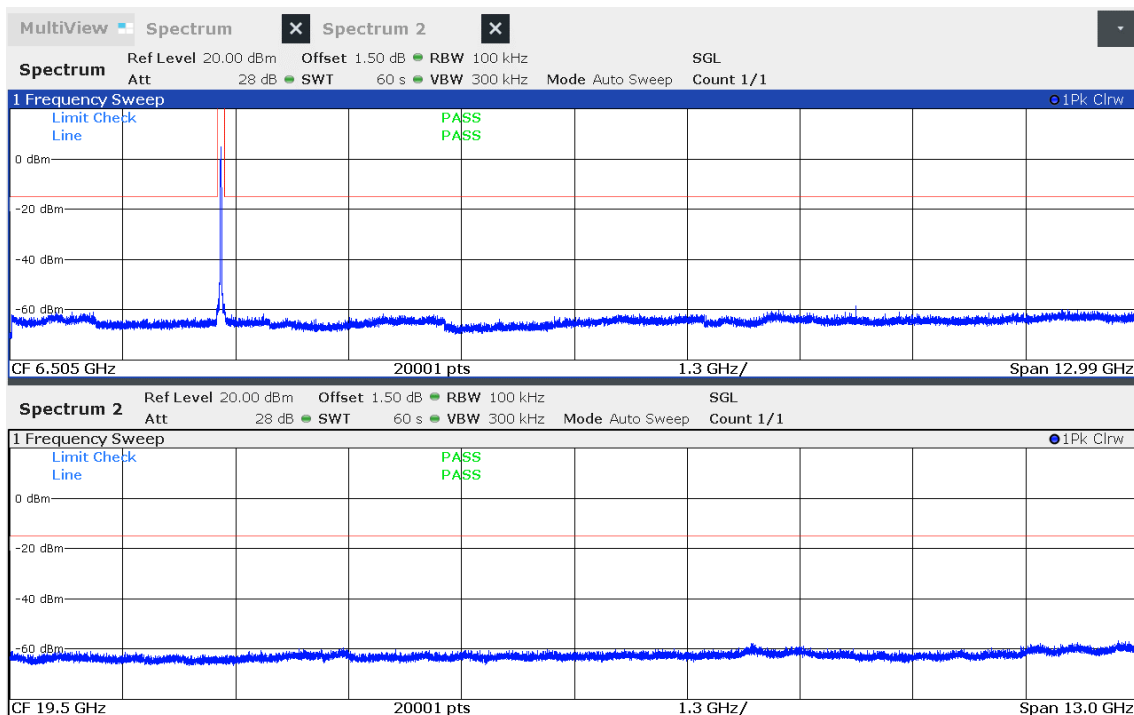
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 b, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2411.7
 Max. in-band Level [dBm/100 kHz]: 4.6
 Out-of-band Limit [dBm/100 kHz]: -15.4



14:50:54 11.09.2021

Conducted Spurious Emissions

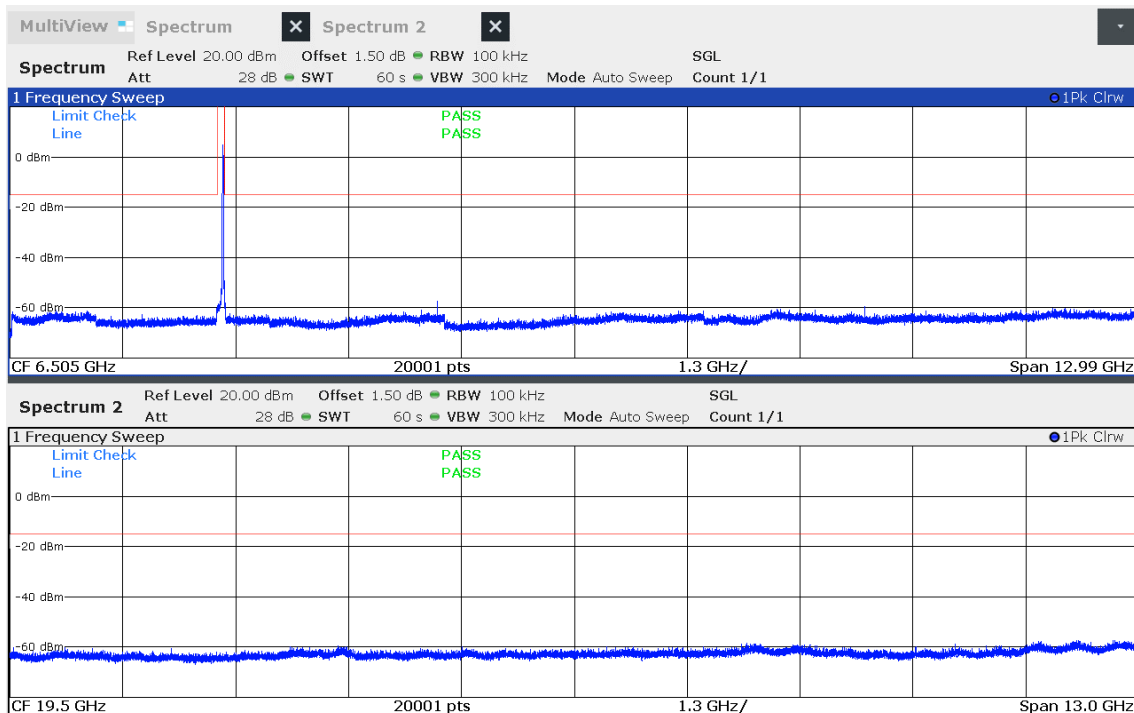
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 b, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2436.7
 Max. in-band Level [dBm/100 kHz]: 5.0
 Out-of-band Limit [dBm/100 kHz]: -15.0



14:54:36 11.09.2021

Conducted Spurious Emissions

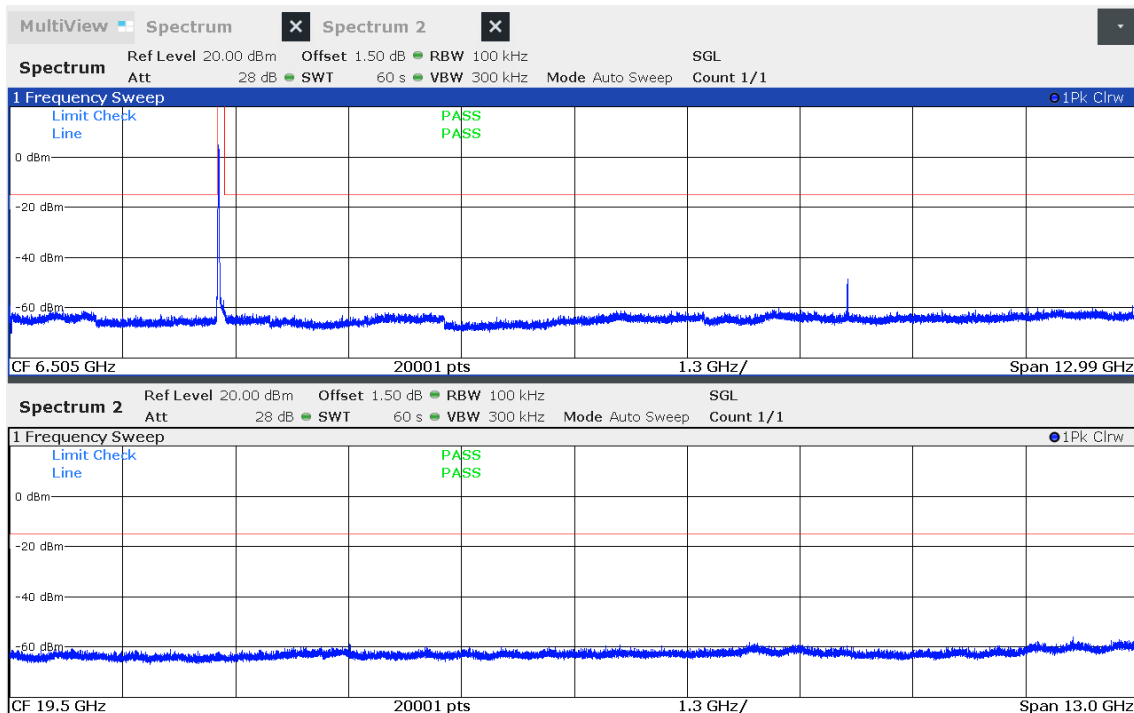
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 b, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2462.4
 Max. in-band Level [dBm/100 kHz]: 4.9
 Out-of-band Limit [dBm/100 kHz]: -15.1



14:58:07 11.09.2021

Conducted Spurious Emissions

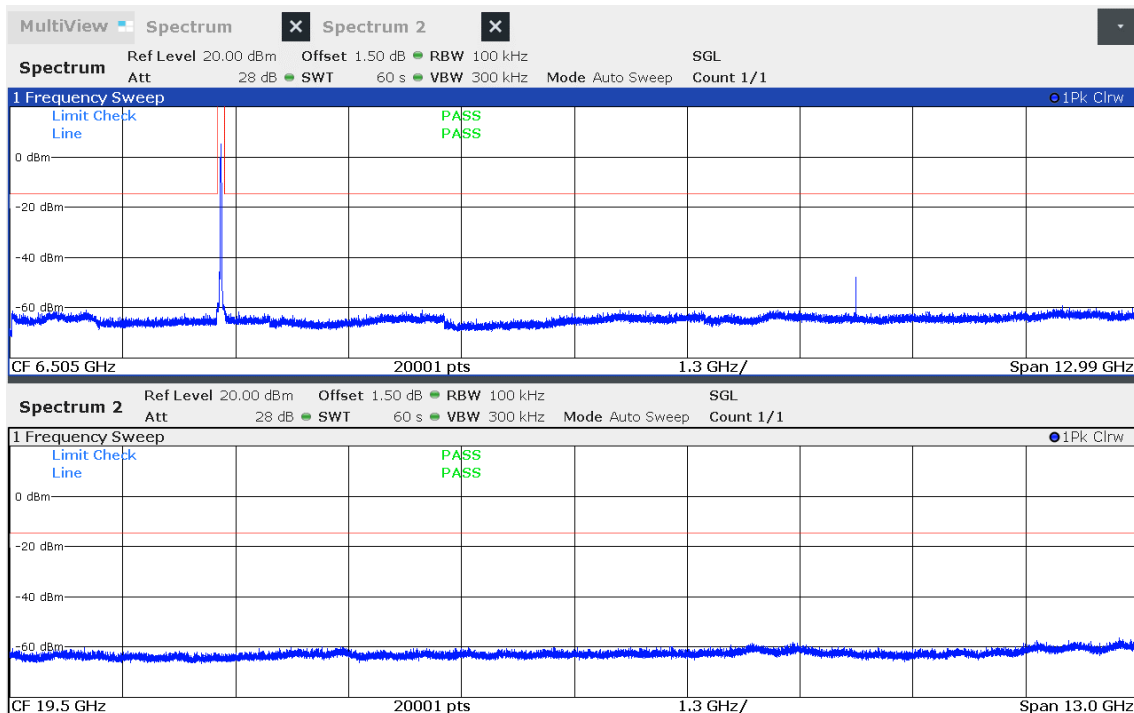
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 b, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2411.7
 Max. in-band Level [dBm/100 kHz]: 5.0
 Out-of-band Limit [dBm/100 kHz]: -15.0



15:01:28 11.09.2021

Conducted Spurious Emissions

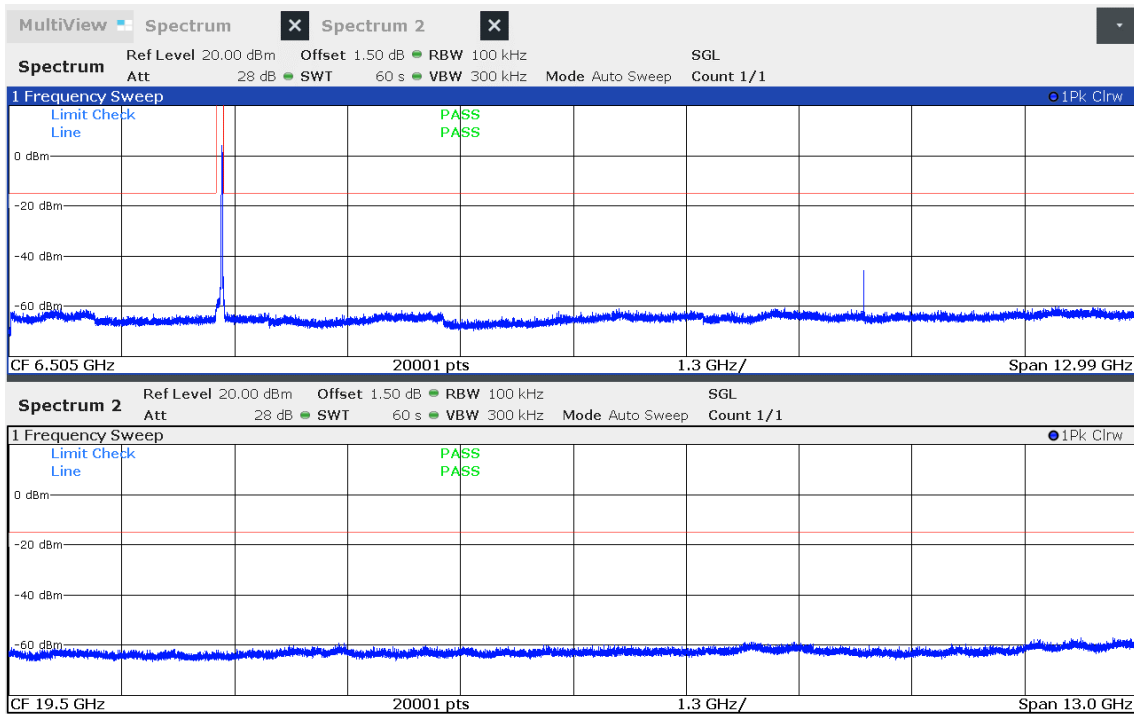
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 b, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2437.4
 Max. in-band Level [dBm/100 kHz]: 5.2
 Out-of-band Limit [dBm/100 kHz]: -14.8



15:04:34 11.09.2021

Conducted Spurious Emissions

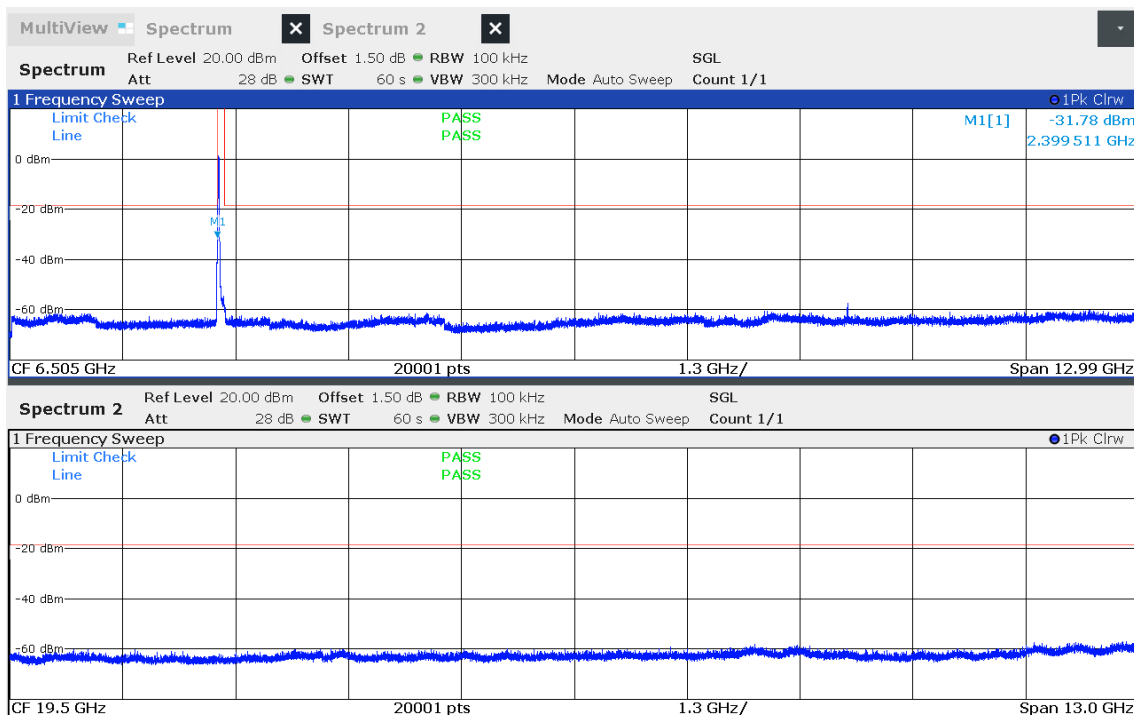
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 b, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2461.7
 Max. in-band Level [dBm/100 kHz]: 5.1
 Out-of-band Limit [dBm/100 kHz]: -14.9



15:07:36 11.09.2021

Conducted Spurious Emissions

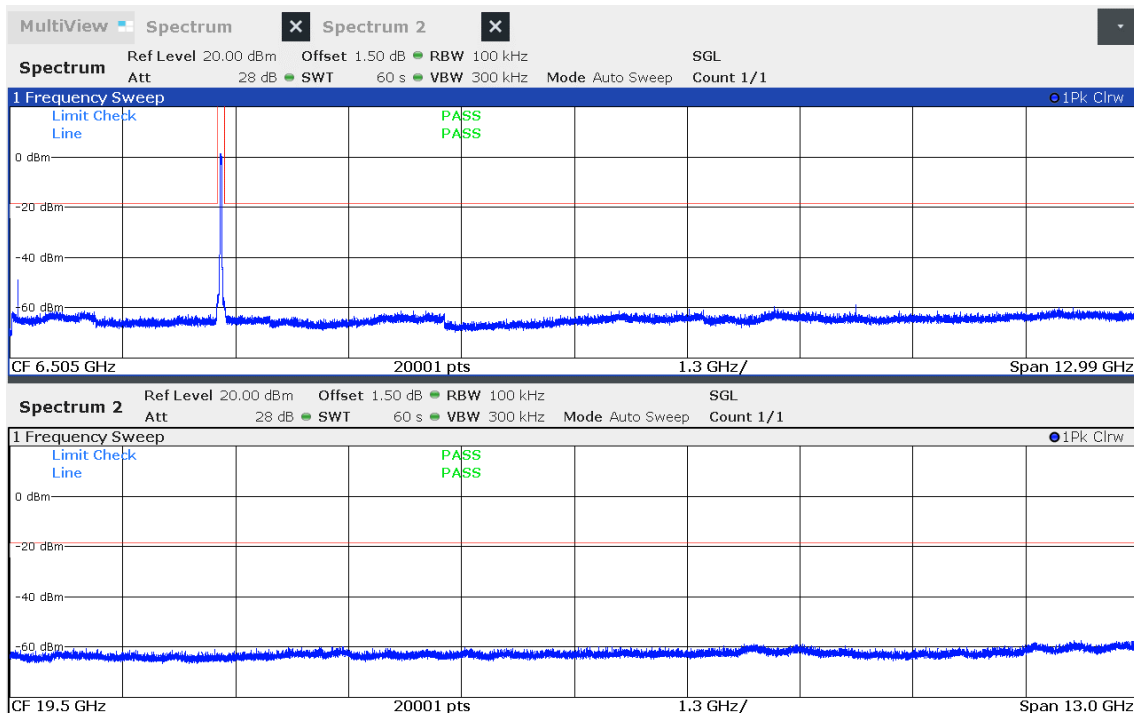
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 g, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2405.8
 Max. in-band Level [dBm/100 kHz]: 1.6
 Out-of-band Limit [dBm/100 kHz]: -18.4



15:13:04 11.09.2021

Conducted Spurious Emissions

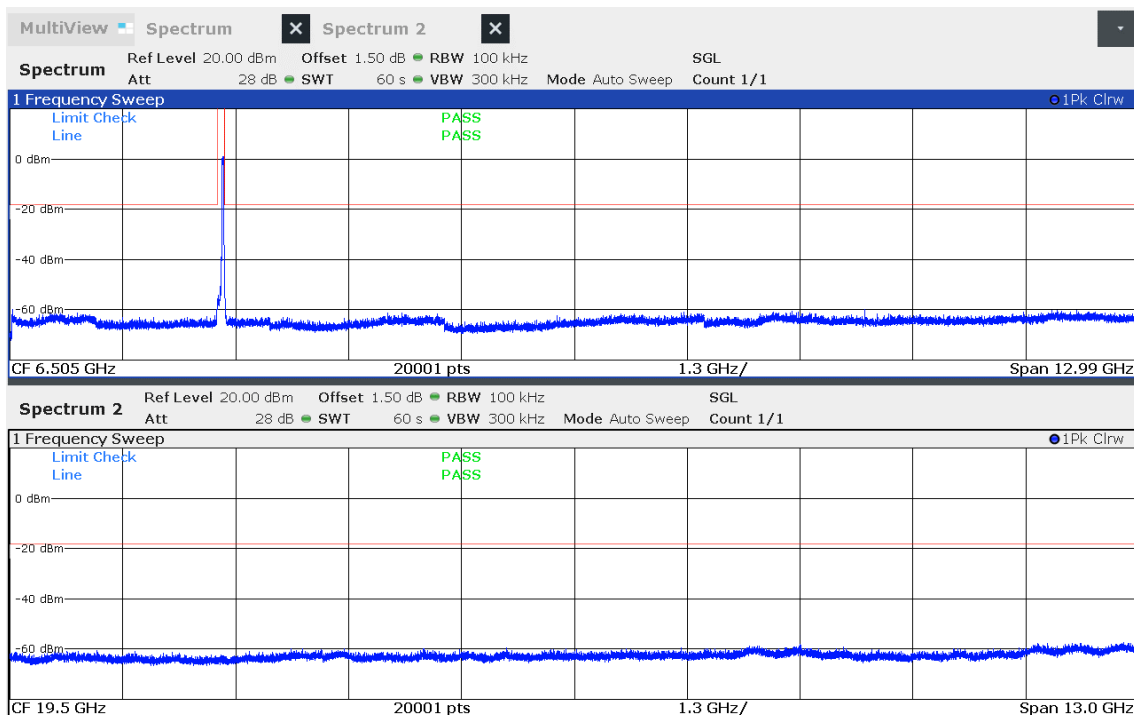
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 g, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2435.8
 Max. in-band Level [dBm/100 kHz]: 1.4
 Out-of-band Limit [dBm/100 kHz]: -18.6



15:17:09 11.09.2021

Conducted Spurious Emissions

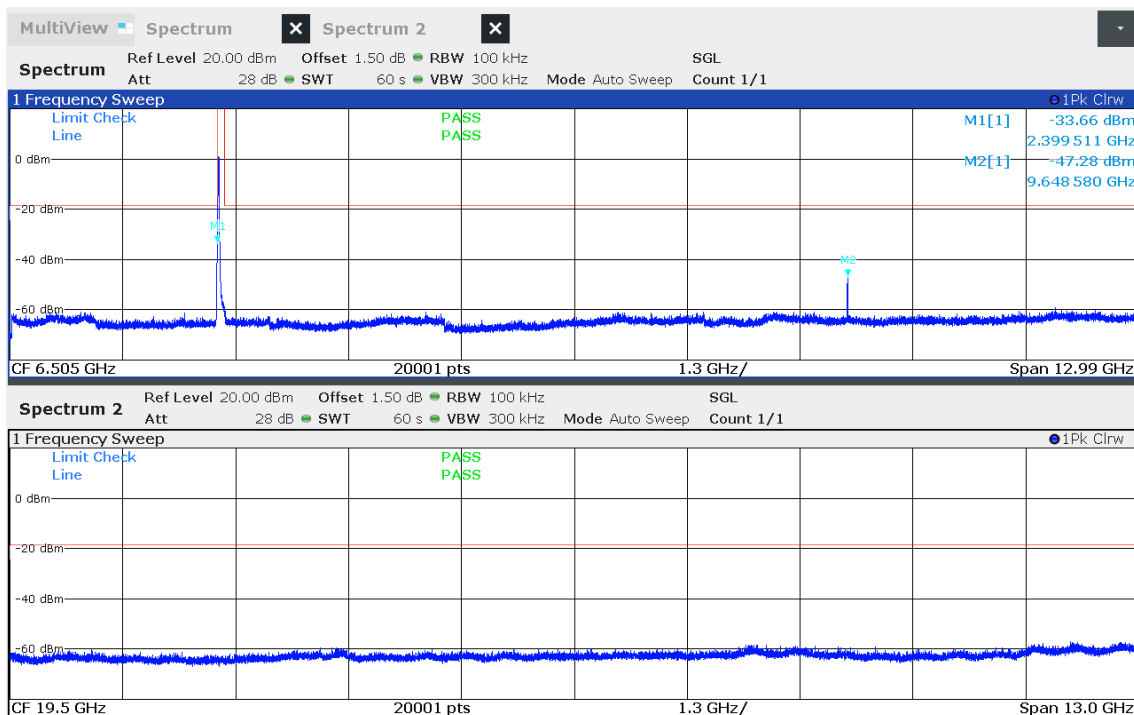
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 g, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2469.5
 Max. in-band Level [dBm/100 kHz]: 1.7
 Out-of-band Limit [dBm/100 kHz]: -18.3



15:19:44 11.09.2021

Conducted Spurious Emissions

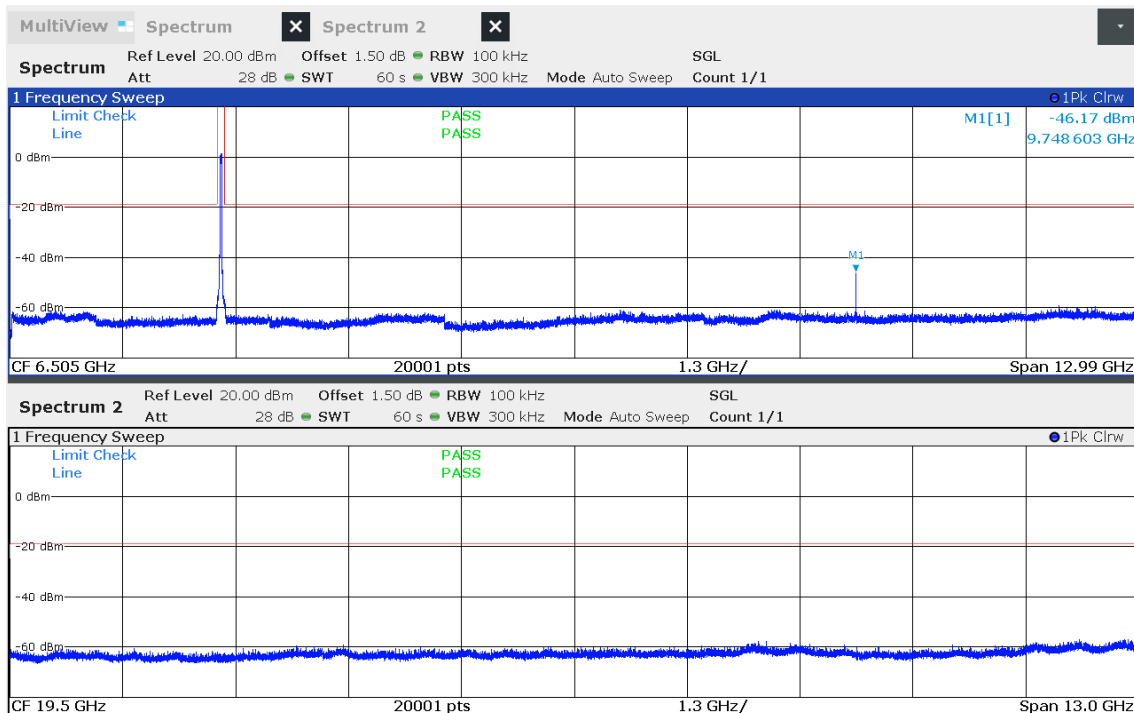
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 g, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2405.8
 Max. in-band Level [dBm/100 kHz]: 1.6
 Out-of-band Limit [dBm/100 kHz]: -18.4



15:24:00 11.09.2021

Conducted Spurious Emissions

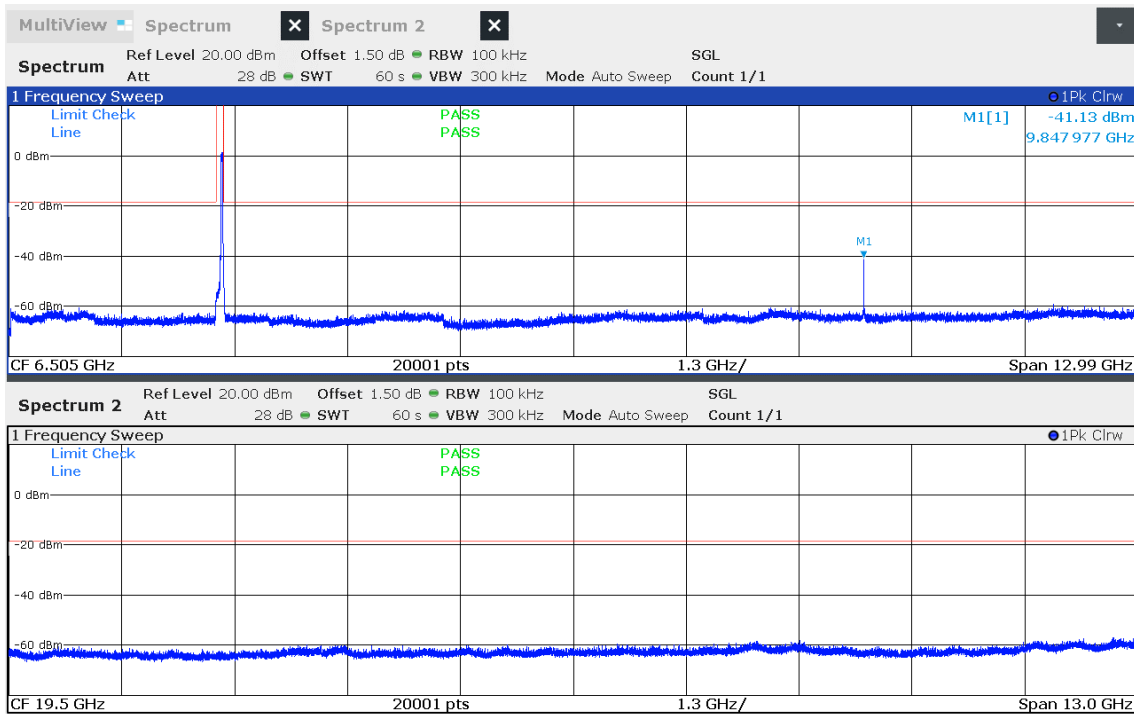
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 g, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2439.5
 Max. in-band Level [dBm/100 kHz]: 1.3
 Out-of-band Limit [dBm/100 kHz]: -18.7



15:27:15 11.09.2021

Conducted Spurious Emissions

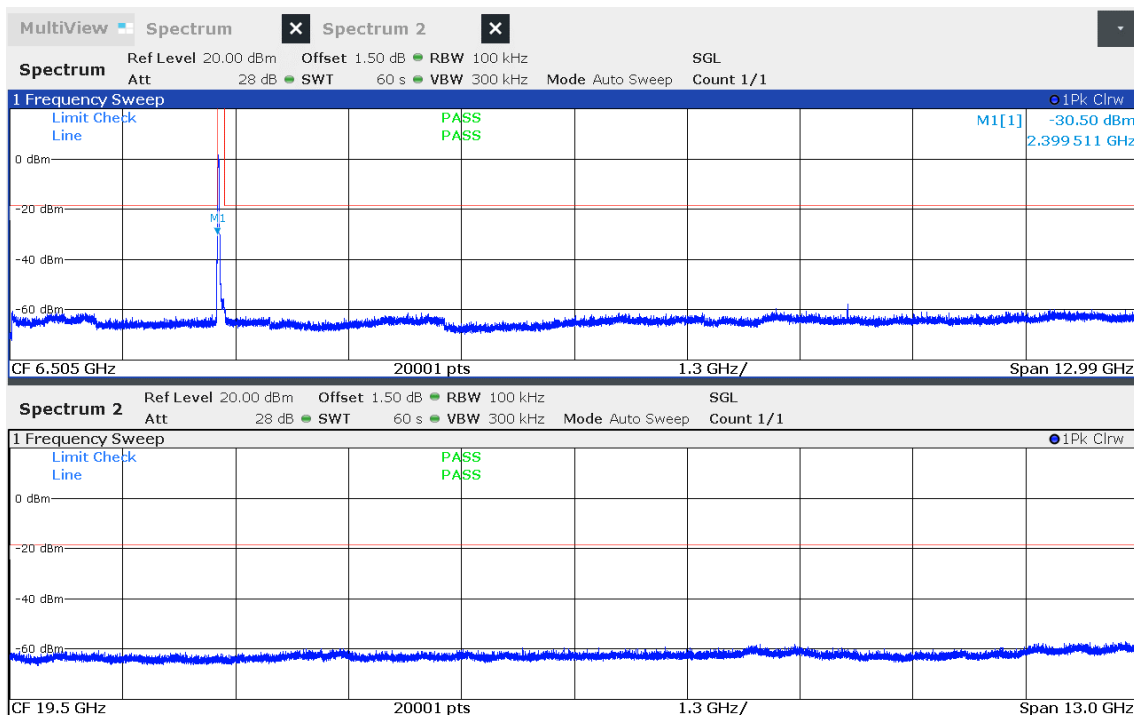
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 g, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-11
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2455.8
 Max. in-band Level [dBm/100 kHz]: 1.5
 Out-of-band Limit [dBm/100 kHz]: -18.5



15:30:18 11.09.2021

Conducted Spurious Emissions

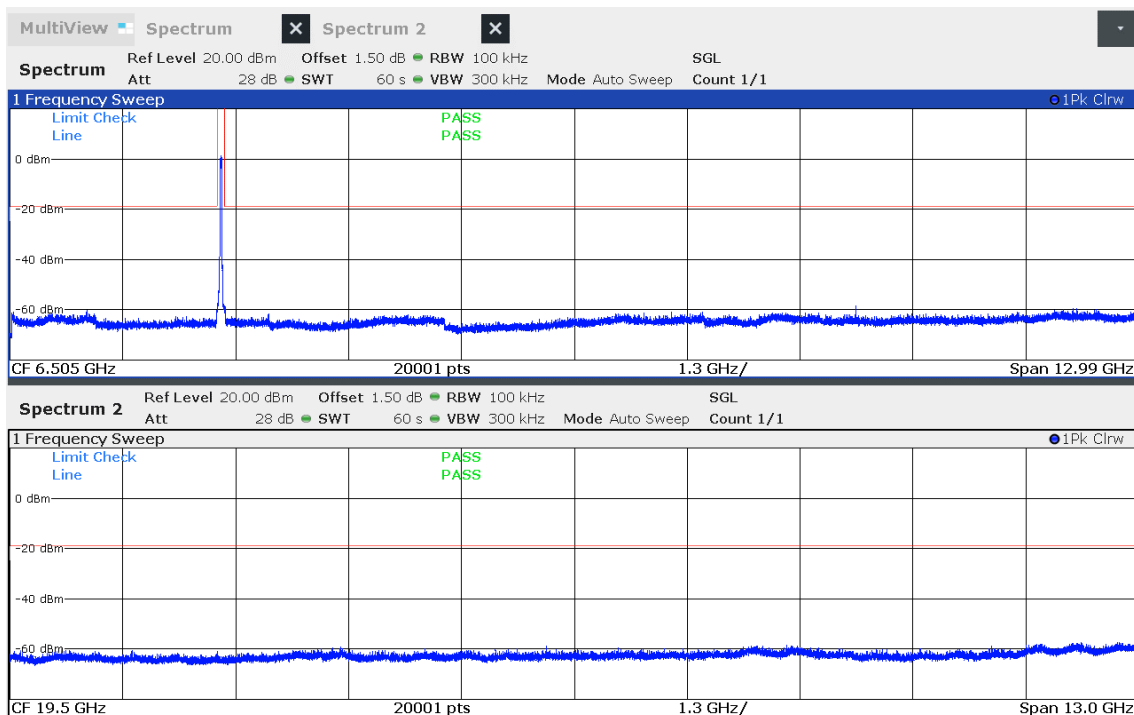
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT20, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2405.8
 Max. in-band Level [dBm/100 kHz]: 1.5
 Out-of-band Limit [dBm/100 kHz]: -18.5



14:21:50 18.09.2021

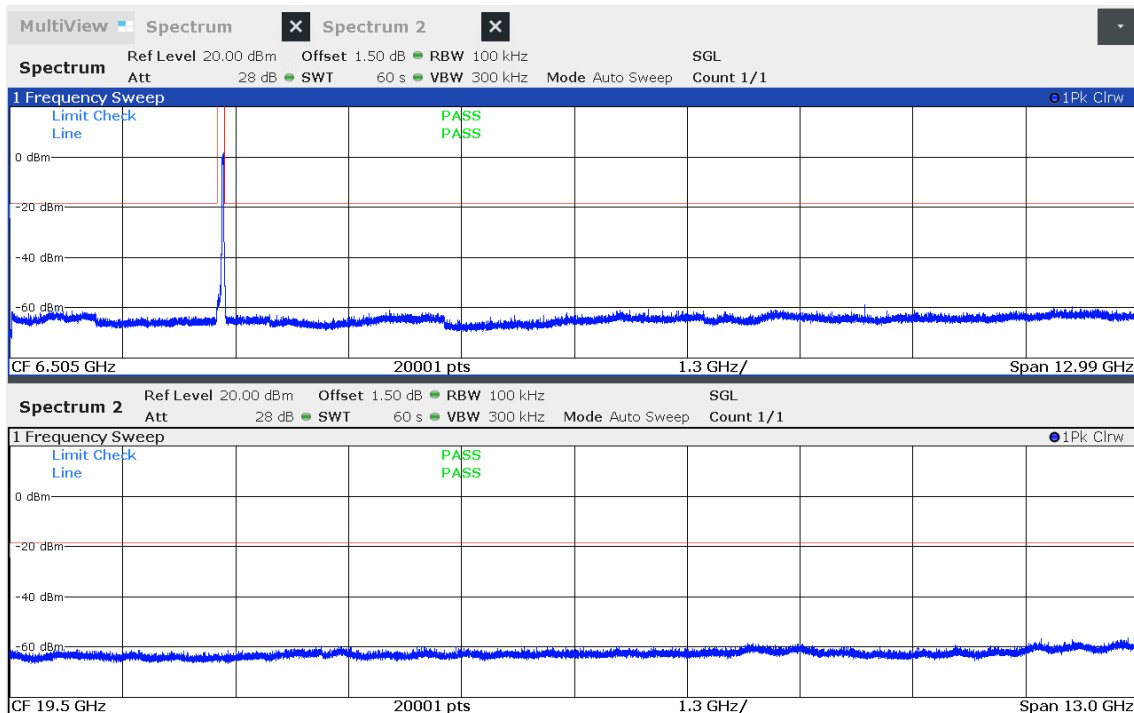
Conducted Spurious Emissions

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT20, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2435.8
 Max. in-band Level [dBm/100 kHz]: 1.3
 Out-of-band Limit [dBm/100 kHz]: -18.7



Conducted Spurious Emissions

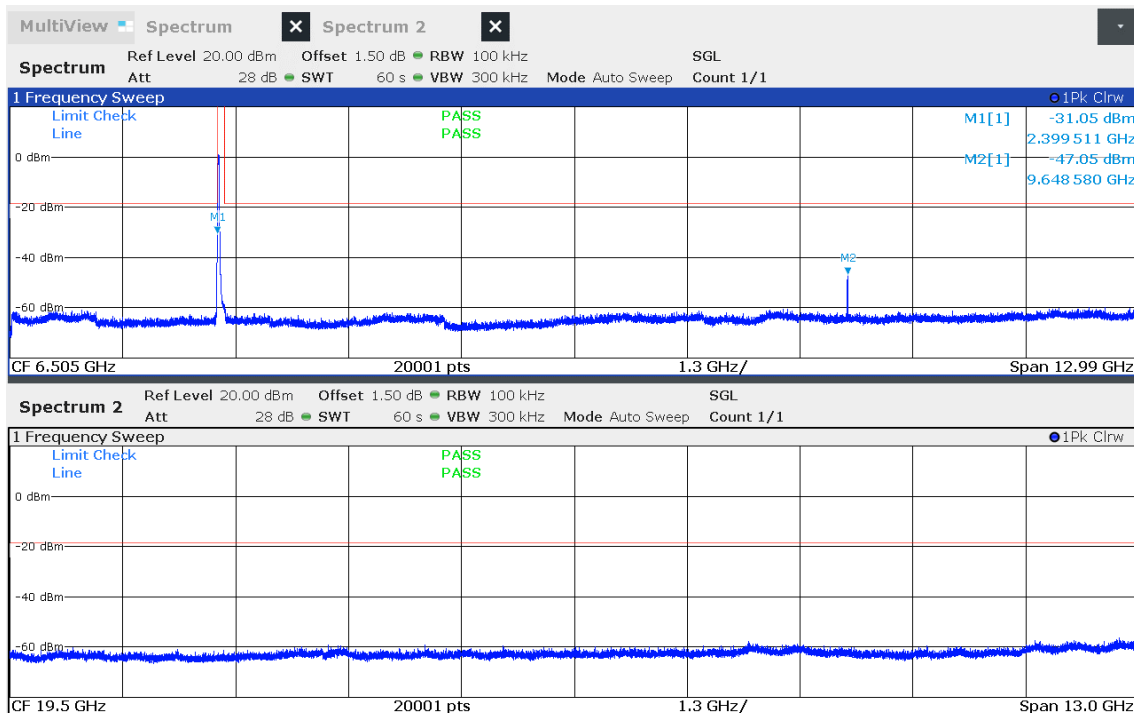
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT20, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2469.5
 Max. in-band Level [dBm/100 kHz]: 1.5
 Out-of-band Limit [dBm/100 kHz]: -18.5



14:28:45 18.09.2021

Conducted Spurious Emissions

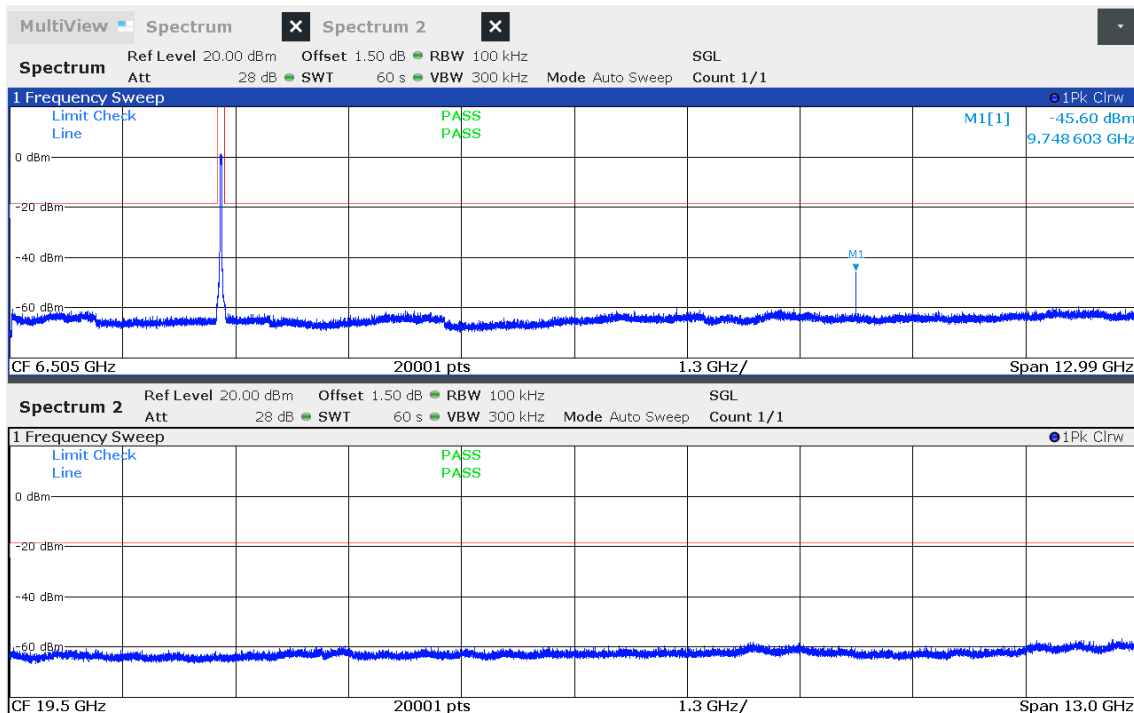
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT20, Channel: 1, 2412 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2405.8
 Max. in-band Level [dBm/100 kHz]: 1.6
 Out-of-band Limit [dBm/100 kHz]: -18.4



14:32:04 18.09.2021

Conducted Spurious Emissions

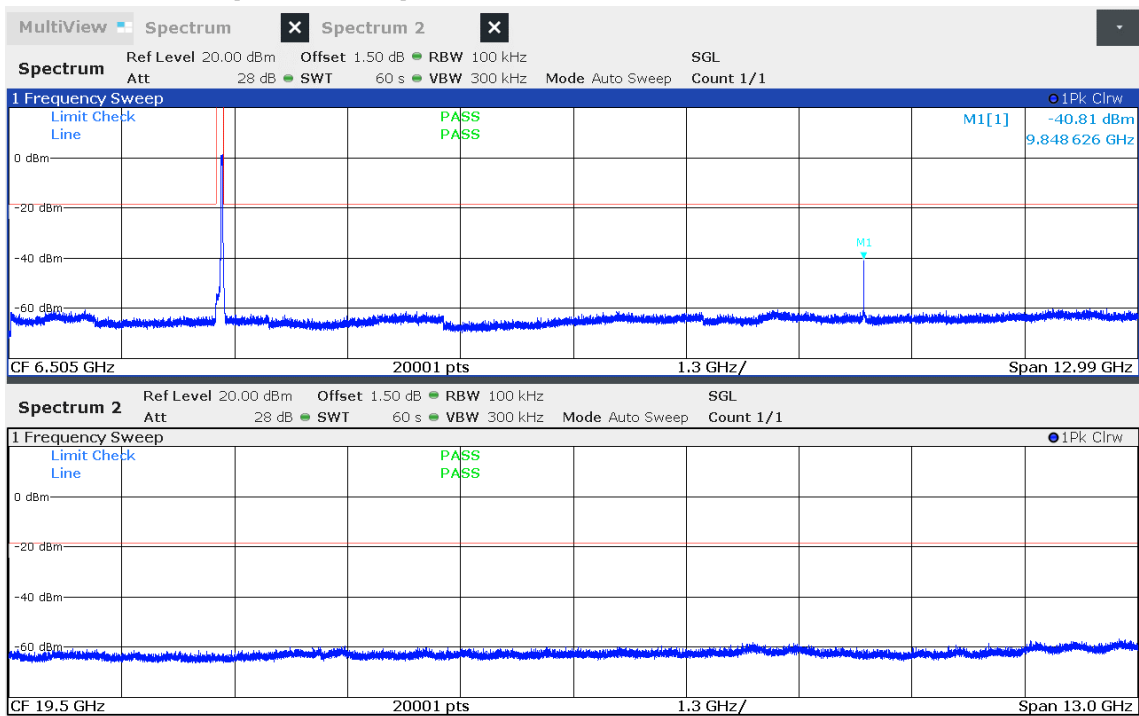
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT20, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2435.8
 Max. in-band Level [dBm/100 kHz]: 1.4
 Out-of-band Limit [dBm/100 kHz]: -18.6



14:37:02 18.09.2021

Conducted Spurious Emissions

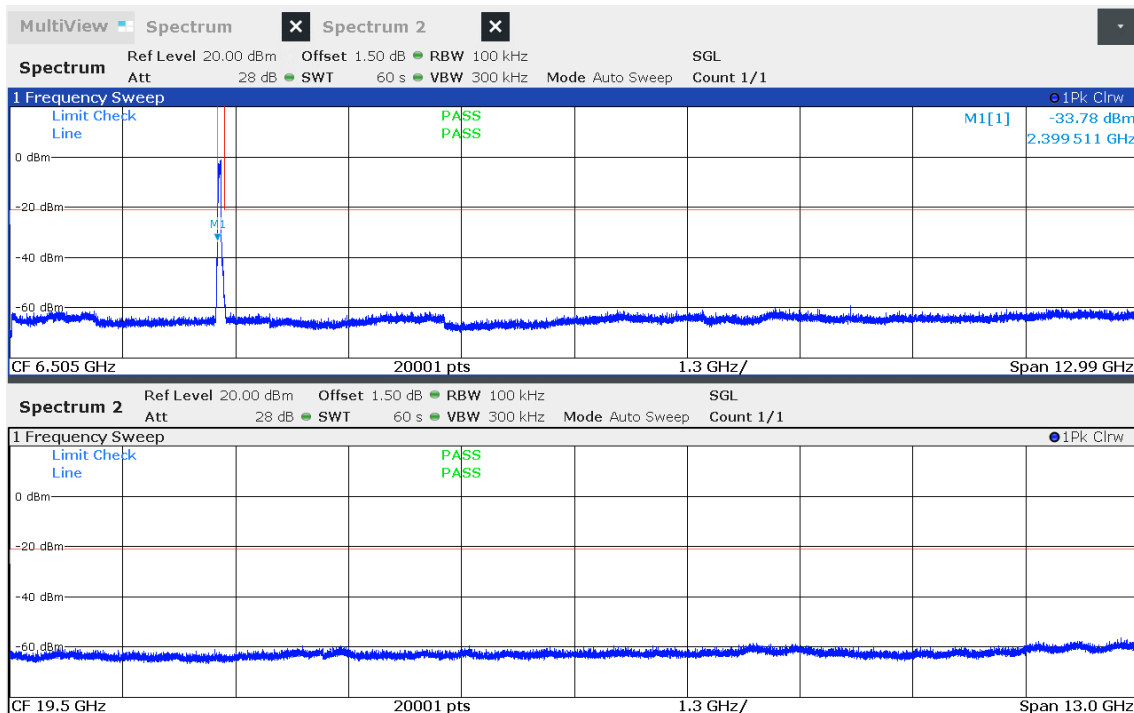
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT20, Channel: 11, 2462 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2455.8
 Max. in-band Level [dBm/100 kHz]: 1.6
 Out-of-band Limit [dBm/100 kHz]: -18.4



14:39:48 18.09.2021

Conducted Spurious Emissions

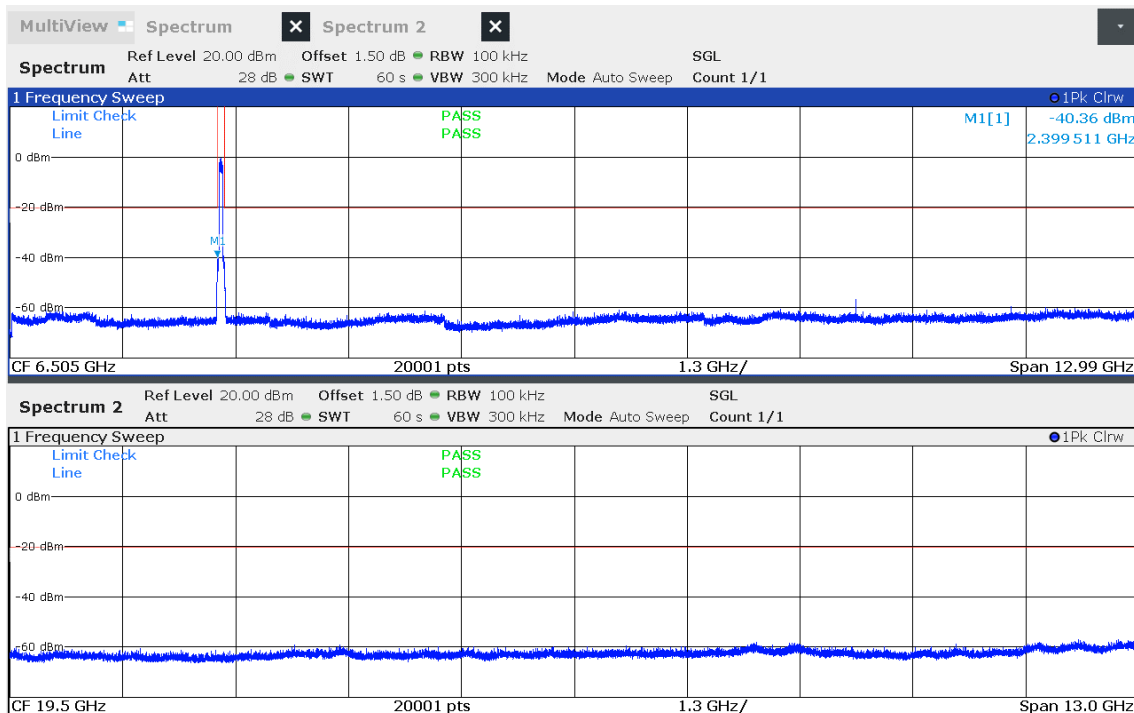
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT40, Channel: 3, 2422 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2437.0
 Max. in-band Level [dBm/100 kHz]: -0.9
 Out-of-band Limit [dBm/100 kHz]: -20.9



14:44:22 18.09.2021

Conducted Spurious Emissions

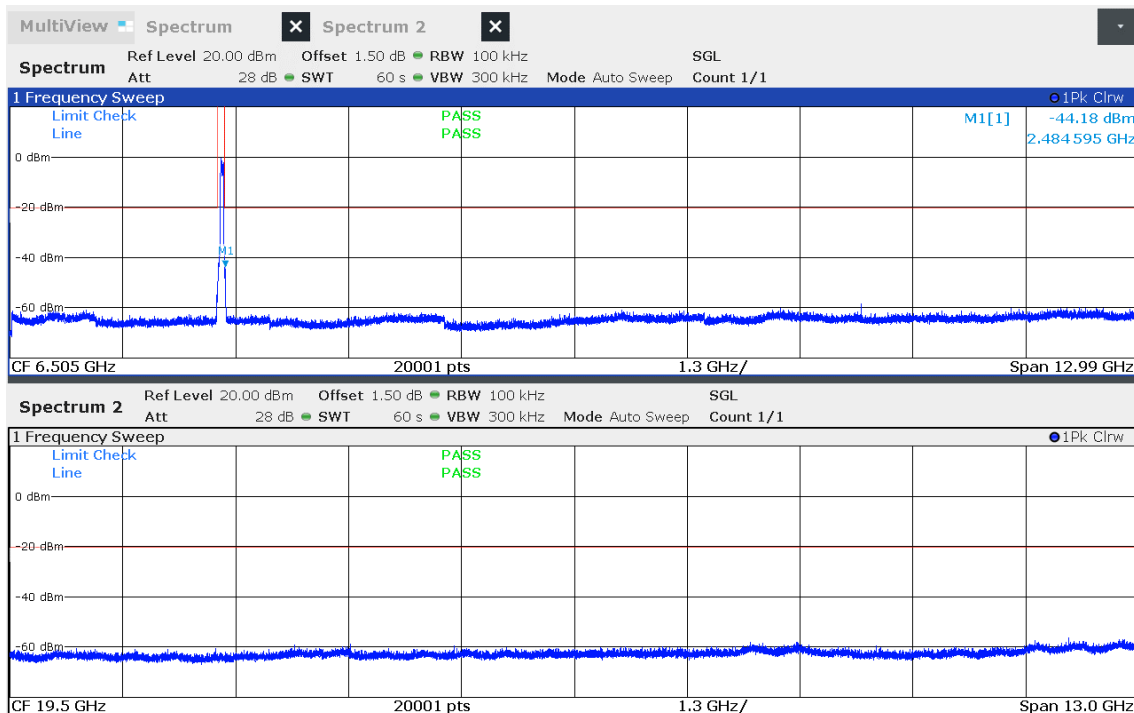
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT40, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2434.5
 Max. in-band Level [dBm/100 kHz]: -0.3
 Out-of-band Limit [dBm/100 kHz]: -20.3



14:46:57 18.09.2021

Conducted Spurious Emissions

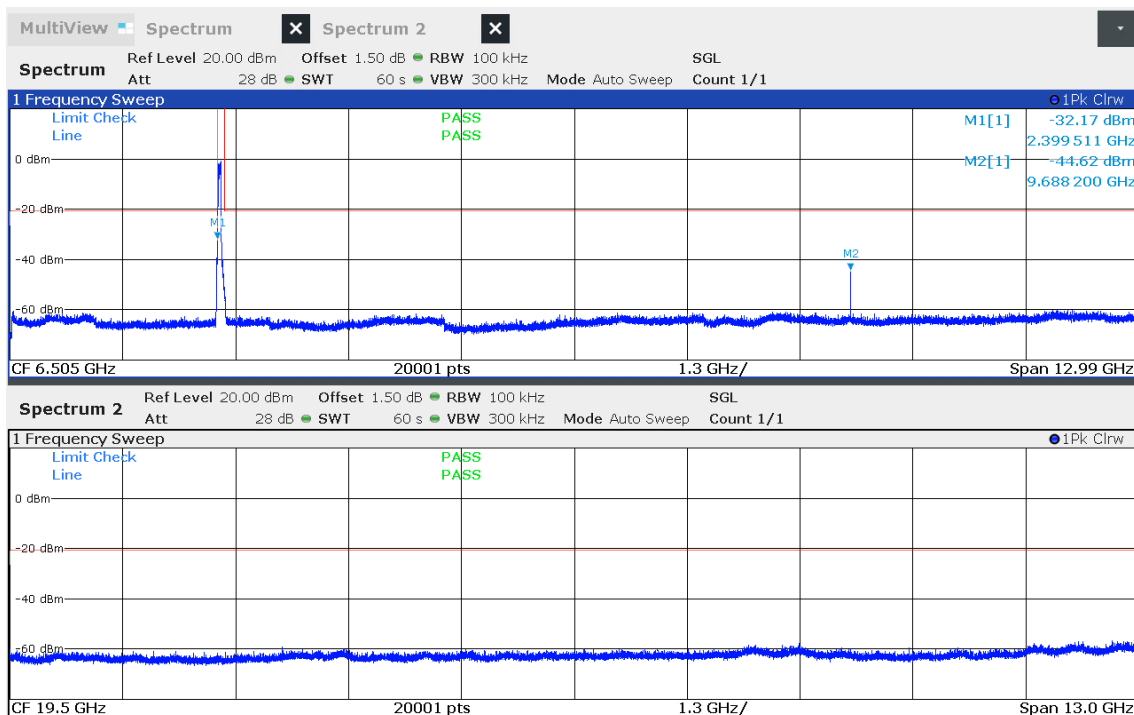
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT40, Channel: 9, 2452 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 1
 Max. in-band Frequency [MHz]: 2435.8
 Max. in-band Level [dBm/100 kHz]: -0.3
 Out-of-band Limit [dBm/100 kHz]: -20.3



14:50:35 18.09.2021

Conducted Spurious Emissions

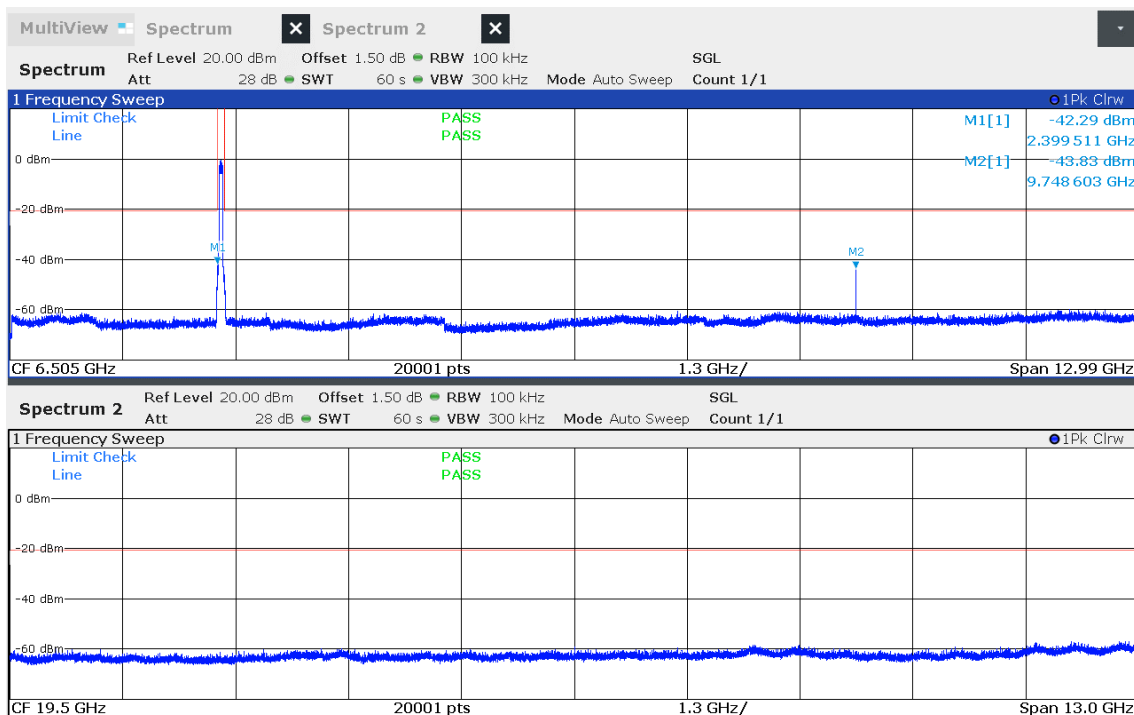
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT40, Channel: 3, 2422 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2439.5
 Max. in-band Level [dBm/100 kHz]: -0.8
 Out-of-band Limit [dBm/100 kHz]: -20.8



14:53:37 18.09.2021

Conducted Spurious Emissions

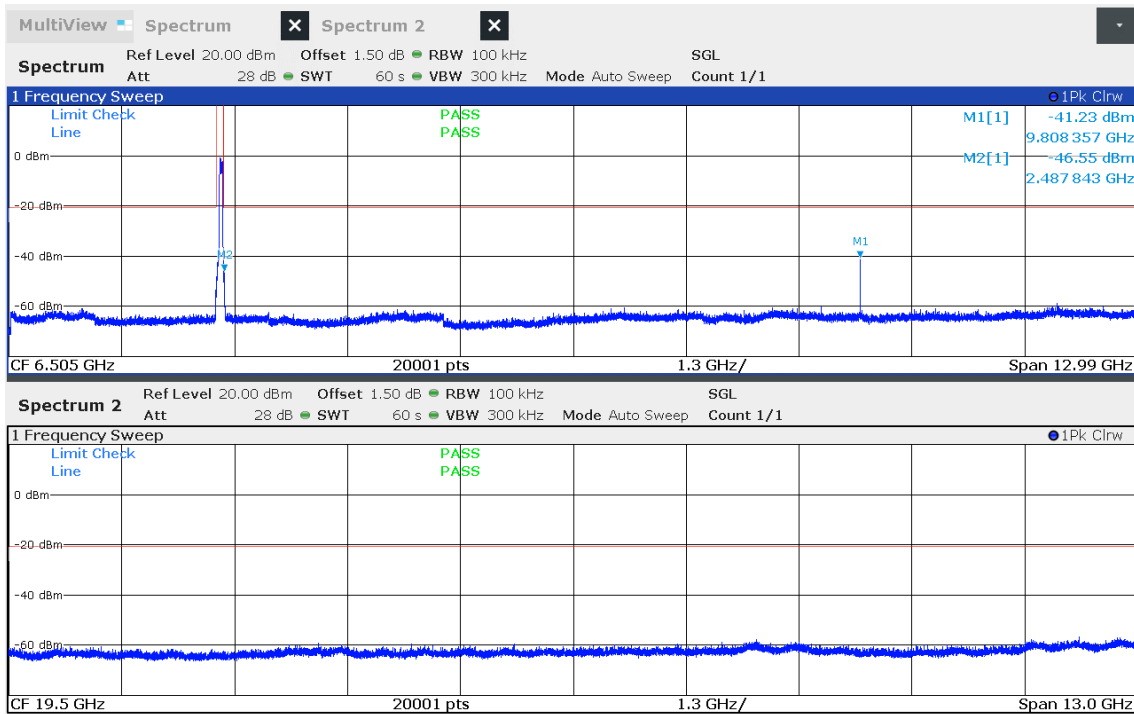
Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT40, Channel: 6, 2437 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2440.7
 Max. in-band Level [dBm/100 kHz]: -0.6
 Out-of-band Limit [dBm/100 kHz]: -20.6



14:56:14 18.09.2021

Conducted Spurious Emissions

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 34982
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: IEEE 802.11 n HT40, Channel: 9, 2452 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Toralf Jahn
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-18
 Antenna port: 2
 Max. in-band Frequency [MHz]: 2435.8
 Max. in-band Level [dBm/100 kHz]: -0.6
 Out-of-band Limit [dBm/100 kHz]: -20.6



14:59:05 18.09.2021

3.7 Test Conditions and Results - Transmitter radiated emissions

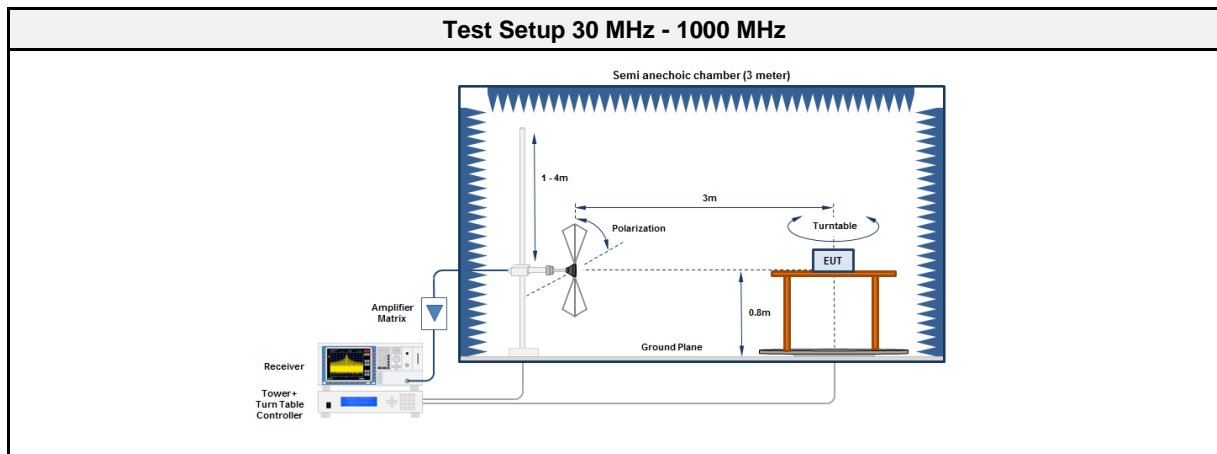
3.7.1 Information

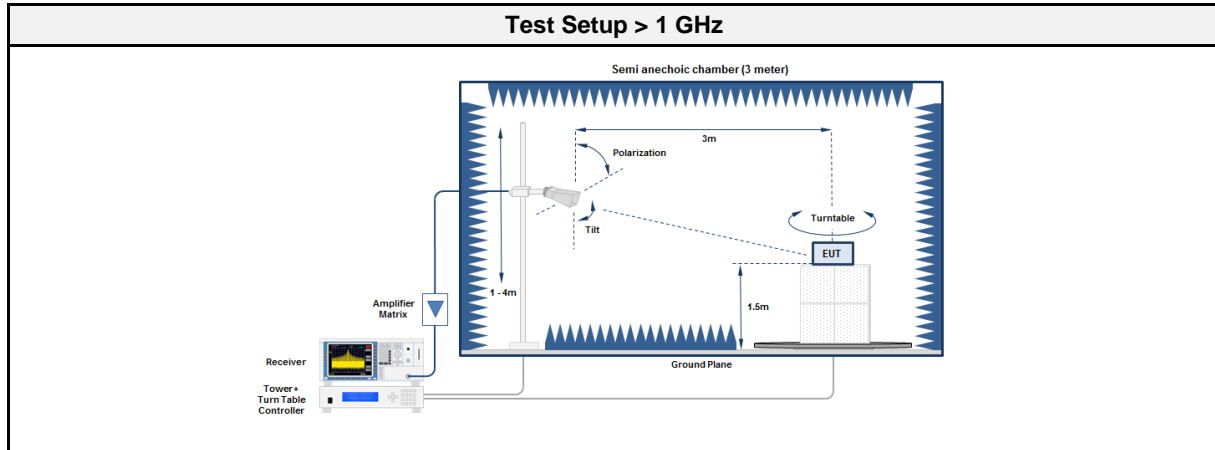
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISSED RSS-Gen, Issue 5 (section 6.13)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6, 11.12
Operator	Jens Degenhardt
Date	2021-11-03

3.7.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [$\mu\text{V}/\text{m}$]	Measurement distance [m]
0.009 - 0.09	Average	2400/F[kHz]	300
0.09 - 0.110	Quasi-Peak	2400/F[kHz]	300
0.110 - 0.490	Average	2400/F[kHz]	300
0.490 - 1.705	Quasi-Peak	24000/F[kHz]	30
1.705 - 30.0	Quasi-Peak	30	30
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.7.3 Setup





3.7.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2021-07	2022-07
Antenna	R&S	HK 116	EF00030	2021-05	2024-05
Antenna	R&S	HL 223	EF00187	2019-05	2022-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber	Frankonia	AC 2	EF01616	2021-09	2022-09
Spectrum analyzer	R&S	FSU43	EF01631	2021-07	2022-07
Antenna	Schwarzbeck	BBHA 9120D	EF01153	2020-11	2021-11
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.7.5 Procedure

Test Procedure 30 MHz - 1000 MHz
<ol style="list-style-type: none"> EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground EUT set to test mode The receiver is set to peak detection with max hold The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz
<ol style="list-style-type: none"> EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground EUT set to test mode The receiver is set to peak detection with max hold The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m All significant emissions are measured again using the corresponding final detector

3.7.6 Results

Test Results – DSSS – Port 2						
Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
2412	4824.4	38.14	pk	ver	74.00	-35.86
2412	4824.4	31.43	avg	ver	54.00	-22.57

Test Results - OFDM – Port 2						
Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
Comment: No significant emissions detected.						

Test Results - HT20 – Port 1 + 2						
Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
2412	110.1762	32.60	qpk	ver	43.50	-10.94
2412	117.2865	20.60	qpk	ver	43.50	-22.95
2412	128.0985	24.90	qpk	ver	43.50	-18.66
2412	130.2872	23.90	qpk	ver	43.50	-19.57
2412	136.8875	21.60	qpk	ver	43.50	-21.88
2412	250.18	40.60	qpk	ver	46.00	-05.43
2437	112.7092	24.60	qpk	ver	43.50	-18.91
2437	121.3367	24.20	qpk	ver	43.50	-19.37
2437	127.41	23.80	qpk	ver	43.50	-19.75
2462	113.657	33.40	qpk	ver	43.50	-10.09
2462	119.7897	32.00	qpk	ver	43.50	-11.56

Test Results - HT40 – Port 1 + 2						
Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
2422	2389.6	60.47	pk	ver	74.00	-13.53
2422	2389.6	47.51	avg	ver	54.00	-06.49

3.8 Test Conditions and Results - Receiver radiated emissions

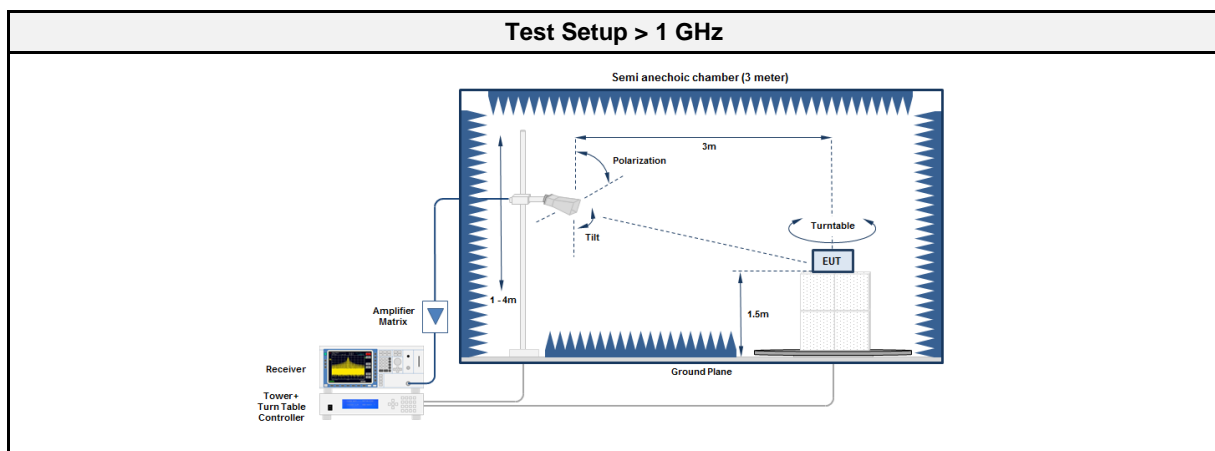
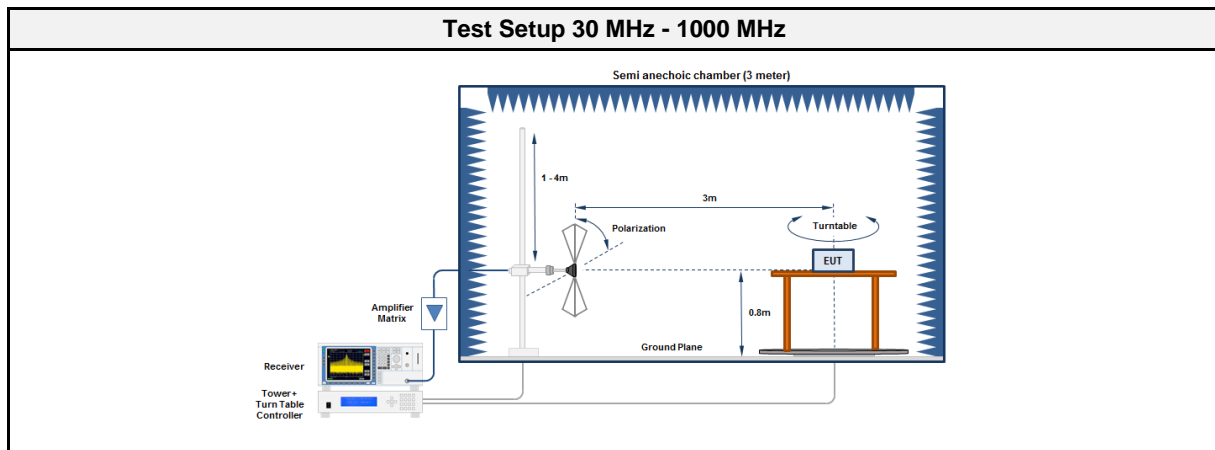
3.8.1 Information

Test Information	
Reference	ISED RSS-247, Issue 2 (section 3.1)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.5, 6.6, 11.12
Operator	Jens Degenhardt
Date	2021-11-17

3.8.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [$\mu\text{V}/\text{m}$]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.8.3 Setup



3.8.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2021-07	2022-07
Antenna	R&S	HK 116	EF00030	2021-05	2024-05
Antenna	R&S	HL 223	EF00187	2019-05	2022-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2021-07	2022-07
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2019-10	2022-10
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03

3.8.5 Procedure

Test Procedure 30 - 1000 MHz
<ol style="list-style-type: none"> EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground EUT set to test mode The receiver is set to peak detection with max hold The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz
<ol style="list-style-type: none"> EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground EUT set to test mode The receiver is set to peak detection with max hold The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m All significant emissions are measured again using the corresponding final detector

3.8.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
Scan Mode	250.2065	33.90	qpk	hor	46.00	-12.08
Scan Mode	1993	44.14	pk	ver	74.00	-29.86
Scan Mode	1993	34.65	avg	ver	53.98	-19.33

3.9 Test Conditions and Results - AC power line conducted emissions

3.9.1 Information

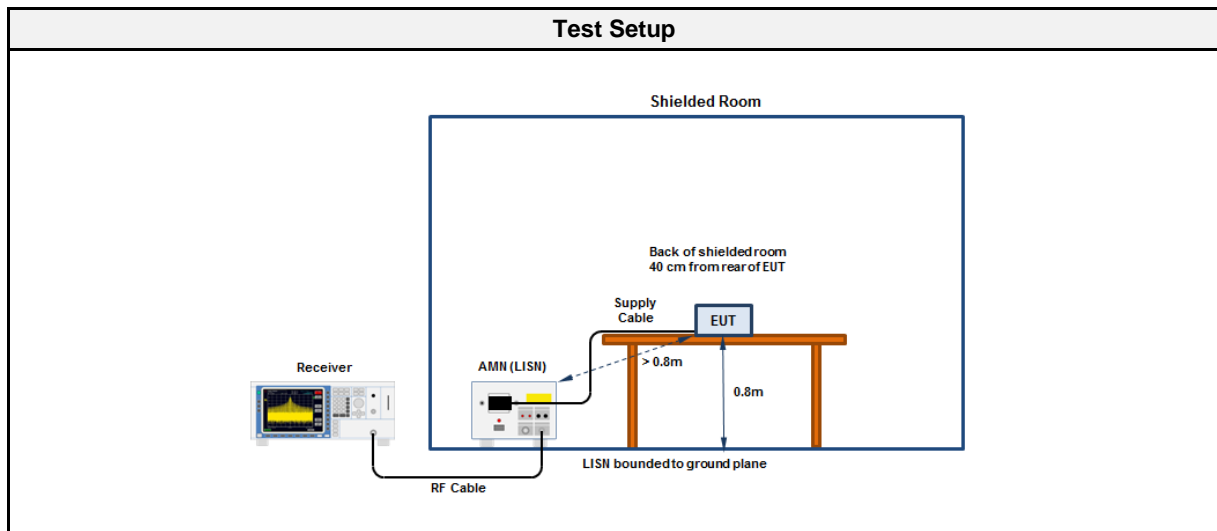
Test Information	
Reference	FCC 15.207
Measurement Method	ANSI C63.10 6.2
Operator	Toralf Jahn
Date	2021-11-16
Measurement uncertainty	±3.82 %

3.9.2 Limits

Limits		
Frequency [MHz]	Quasi-Peak [dBµV]	Average [dBµV]
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5	56	46
5 - 30	60	50

* Limit decreases linearly with the logarithm of the frequency

3.9.3 Setup



3.9.4 Equipment

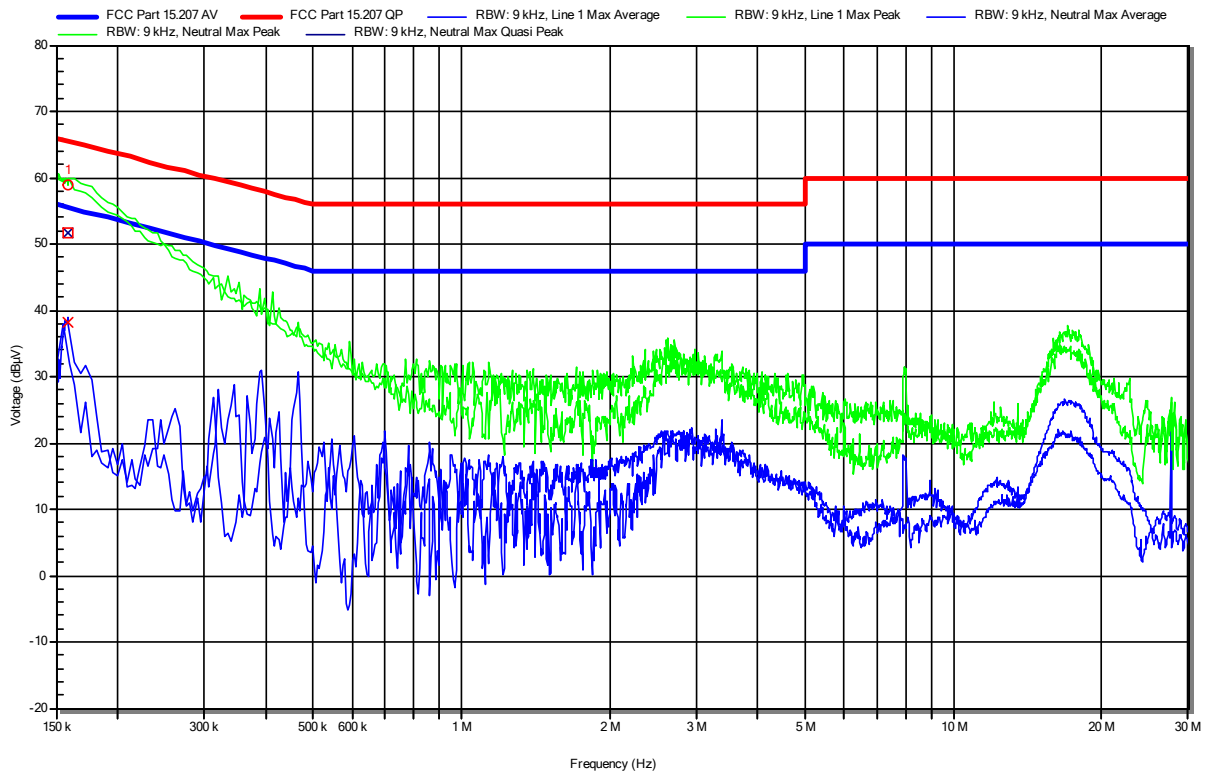
Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESR7	EF00943	2021-08	2022-08
LISN	Schwarzbeck	NSLK 8127 RC	EF01592	2021-07	2022-07

Conducted emissions at the mains power port according to FCC Part C 15.207

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35709
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Jahn
 Test Date: 2021-11-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 14.8 VDC via Laptop 120 VAC
 LISN: Schwarzbeck NSLK 8127 RC N
 Operational Mode & EUT Configuration: USB-Mode WLAN 2.4 GHz
 Applied to Port: USB
 Note 1:

Index 2



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	158.55 kHz	51.6 dBµV	65.54 dBµV	-13.94 dB	Pass	Neutral
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	158.55 kHz	38.24 dBµV	55.54 dBµV	-17.3 dB	Pass	Neutral

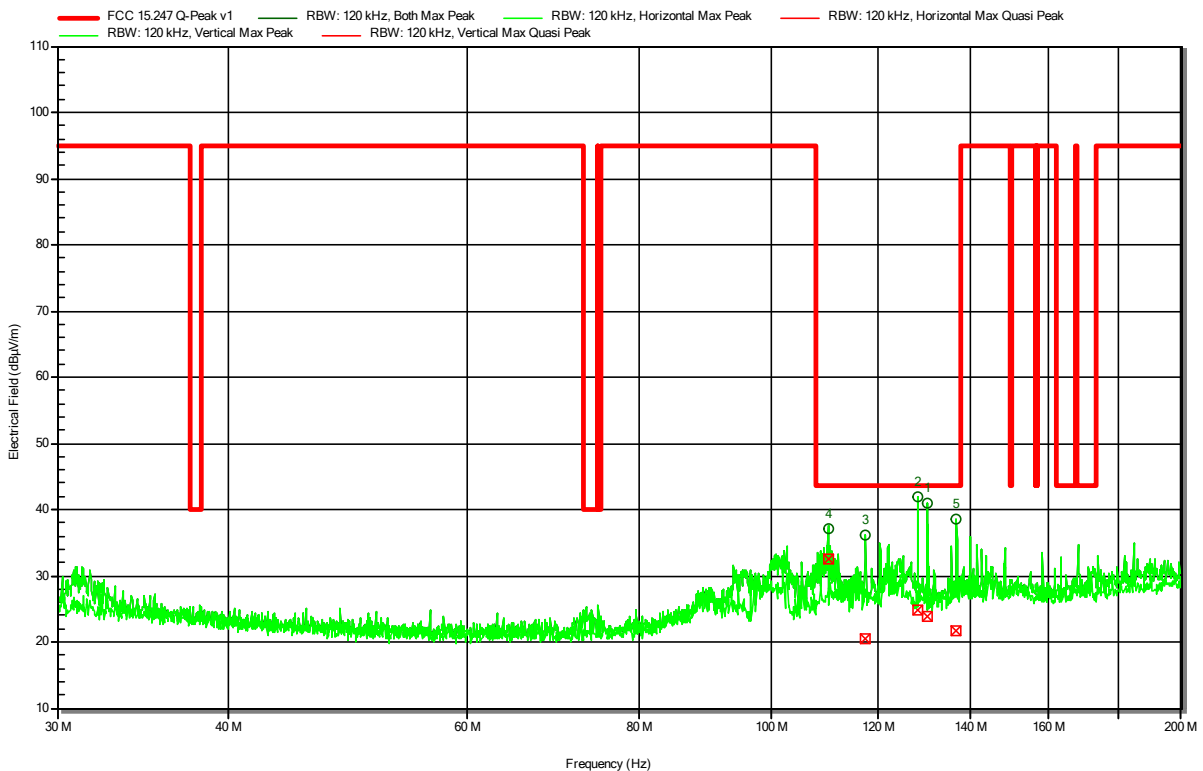
ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; f=2412MHz; HT20
 Test Date: 2021-11-18
 Note:

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
110.1762 MHz	37.2 dBµV/m	None	None	None	Vertical
117.2865 MHz	36.2 dBµV/m	None	None	None	Vertical
128.0985 MHz	41.9 dBµV/m	None	None	None	Horizontal
130.2872 MHz	40.9 dBµV/m	None	None	None	Horizontal
136.8875 MHz	38.5 dBµV/m	None	None	None	Horizontal

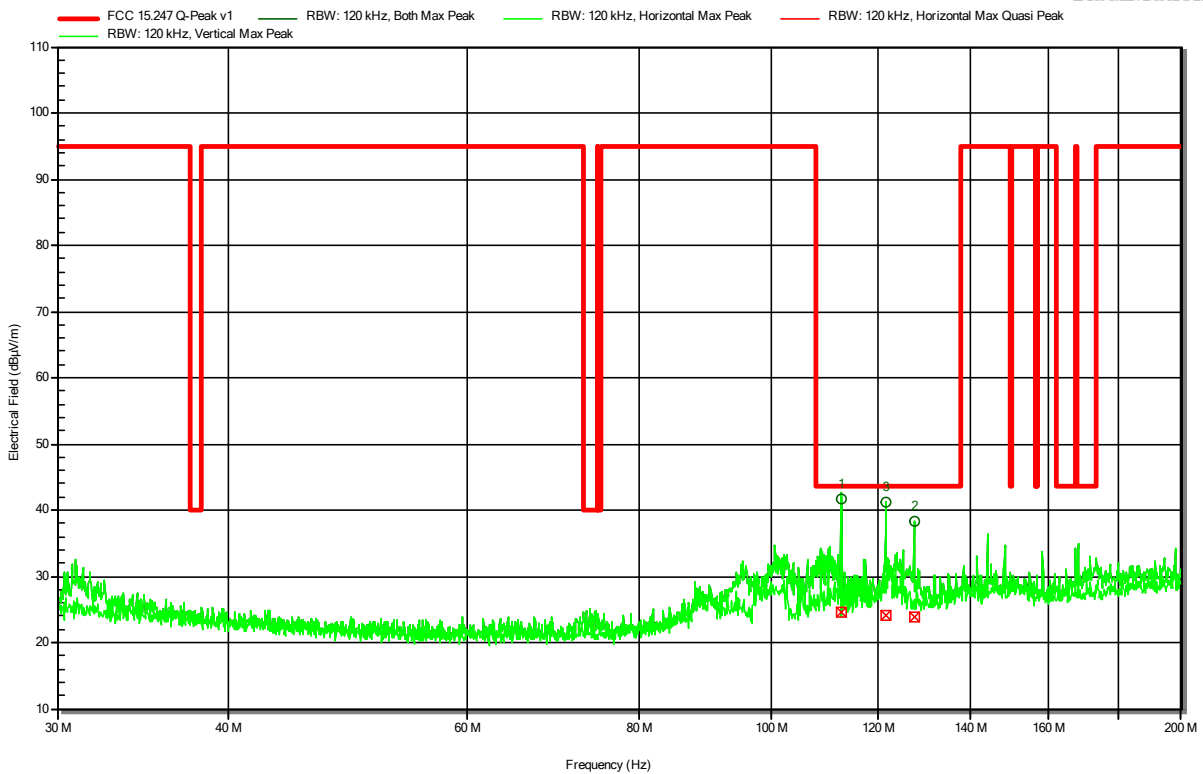
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
110.1762 MHz	32.6 dB μ V/m	43.5 dB μ V/m	-10.94 dB	Pass	Vertical
117.2865 MHz	20.6 dB μ V/m	43.5 dB μ V/m	-22.95 dB	Pass	Vertical
128.0985 MHz	24.9 dB μ V/m	43.5 dB μ V/m	-18.66 dB	Pass	Horizontal
130.2872 MHz	23.9 dB μ V/m	43.5 dB μ V/m	-19.57 dB	Pass	Horizontal
136.8875 MHz	21.6 dB μ V/m	43.5 dB μ V/m	-21.88 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; f=2437MHz; HT20
 Test Date: 2021-11-18
 Note:

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
112.7092 MHz	41.7 dBµV/m	None	None	None	Horizontal
121.3367 MHz	41.1 dBµV/m	None	None	None	Horizontal
127.41 MHz	38.3 dBµV/m	None	None	None	Horizontal

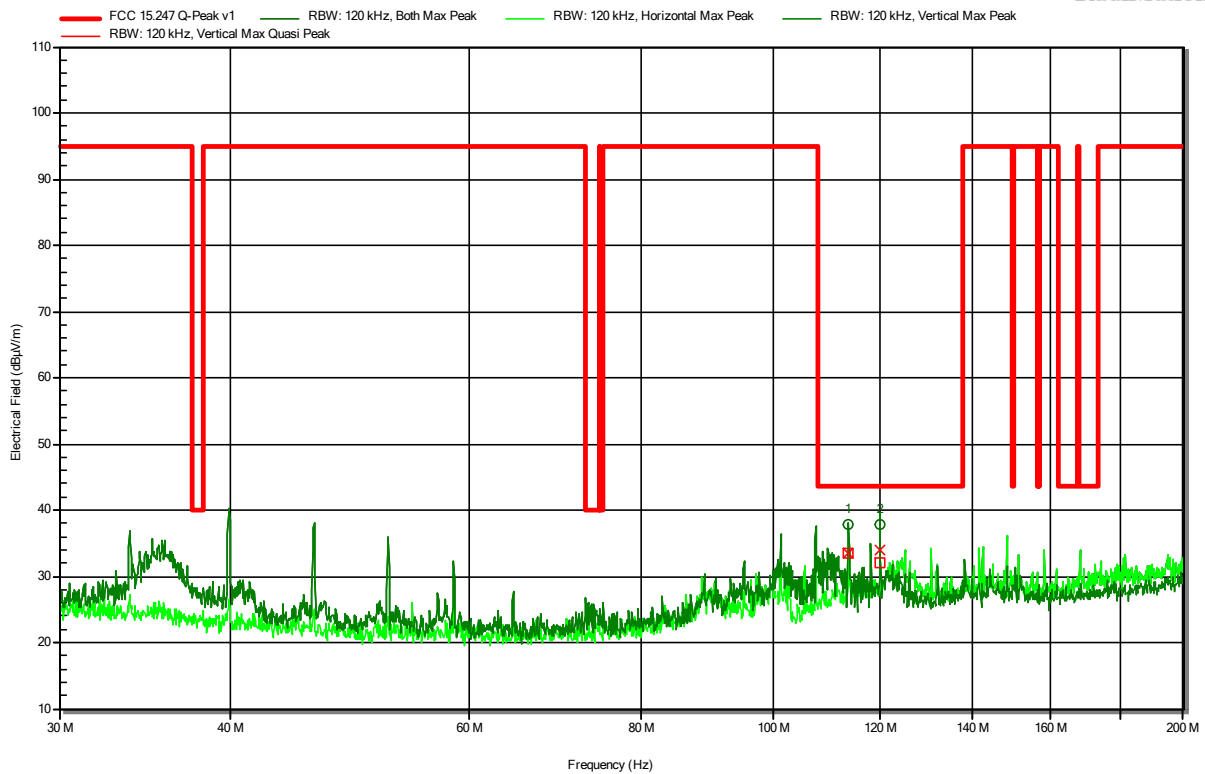
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
112.7092 MHz	24.6 dB μ V/m	43.5 dB μ V/m	-18.91 dB	Pass	Horizontal
121.3367 MHz	24.2 dB μ V/m	43.5 dB μ V/m	-19.37 dB	Pass	Horizontal
127.41 MHz	23.8 dB μ V/m	43.5 dB μ V/m	-19.75 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; f=2462MHz; HT20
 Test Date: 2021-11-18
 Note:

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
113.657 MHz	37.8 dBµV/m	None	None	None	Vertical
119.7897 MHz	37.9 dBµV/m	None	None	None	Vertical

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
113.657 MHz	33.4 dBµV/m	43.5 dBµV/m	-10.09 dB	Pass	Vertical
119.7897 MHz	32 dBµV/m	43.5 dBµV/m	-11.56 dB	Pass	Vertical

Test Report No.: G0M-2011-9488-TFC247WF-V01

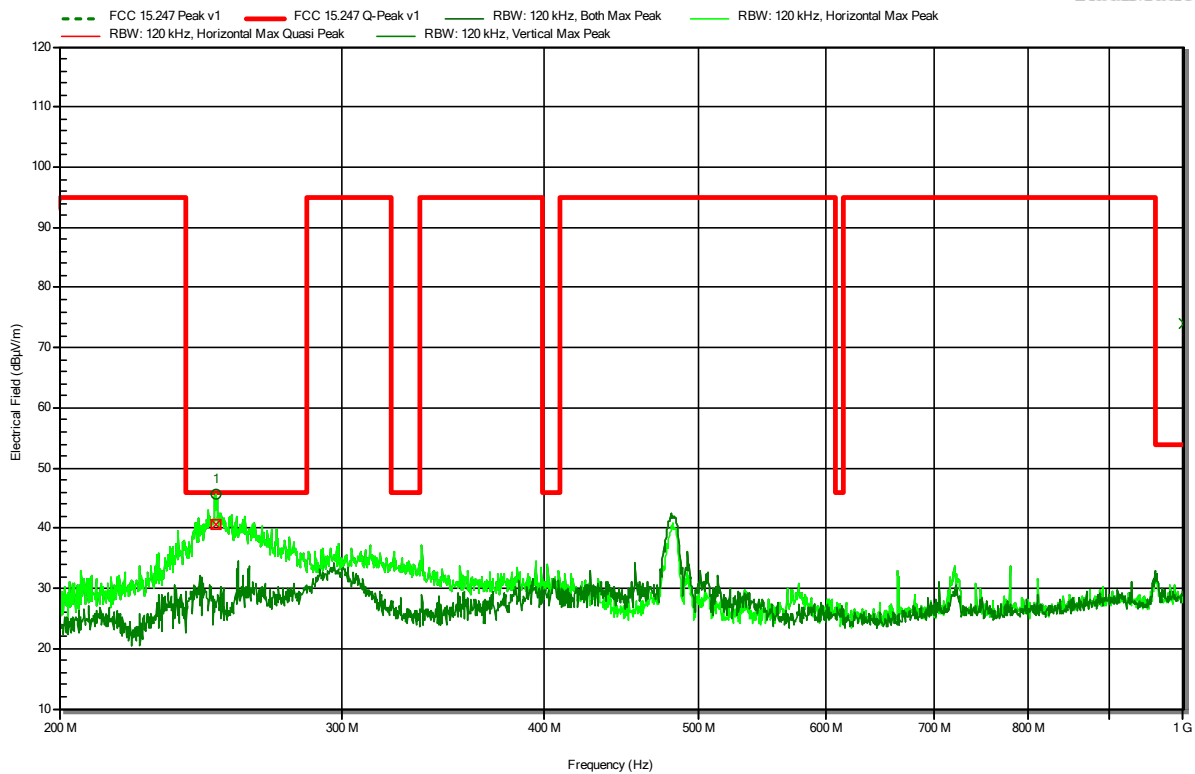
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; f=2412MHz; HT20
 Test Date: 2021-11-18
 Note:

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RadiMation



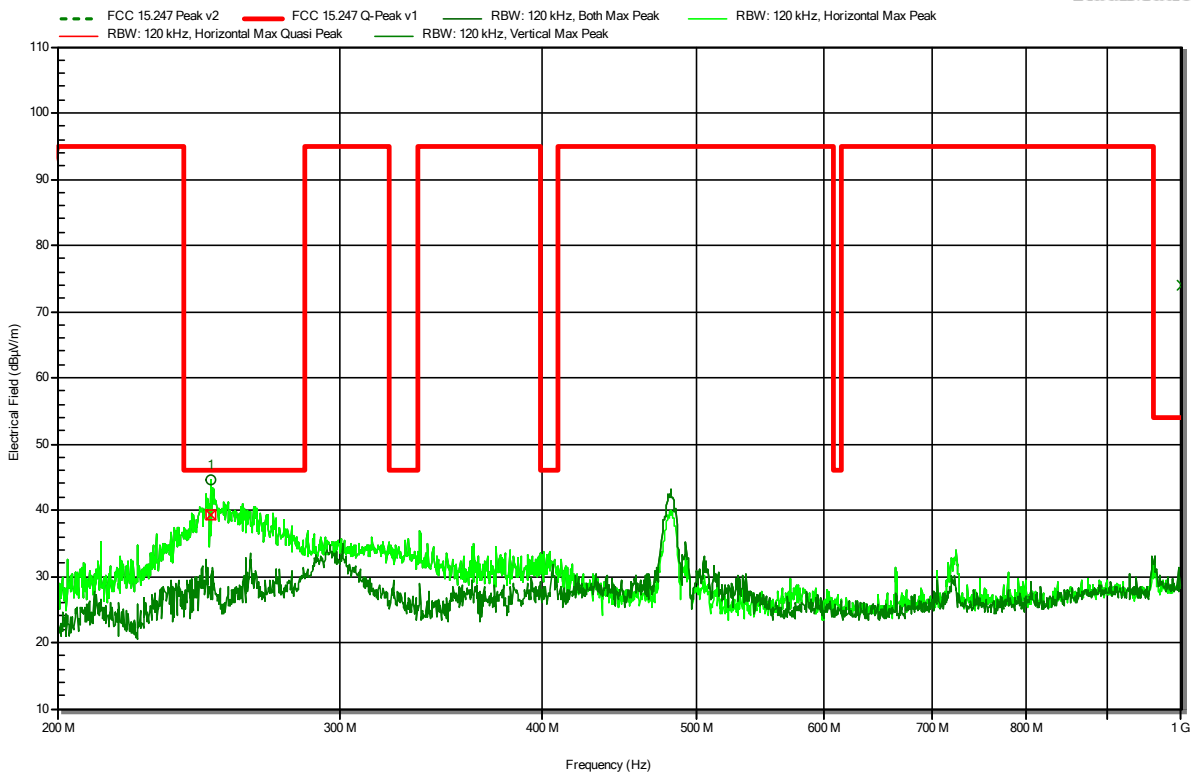
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
250.18 MHz	45.7 dBµV/m	None	None	None	Horizontal
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
250.18 MHz	40.6 dBµV/m	46 dBµV/m	-5.43 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; f=2437MHz; HT20
 Test Date: 2021-11-18
 Note:

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RadiMation



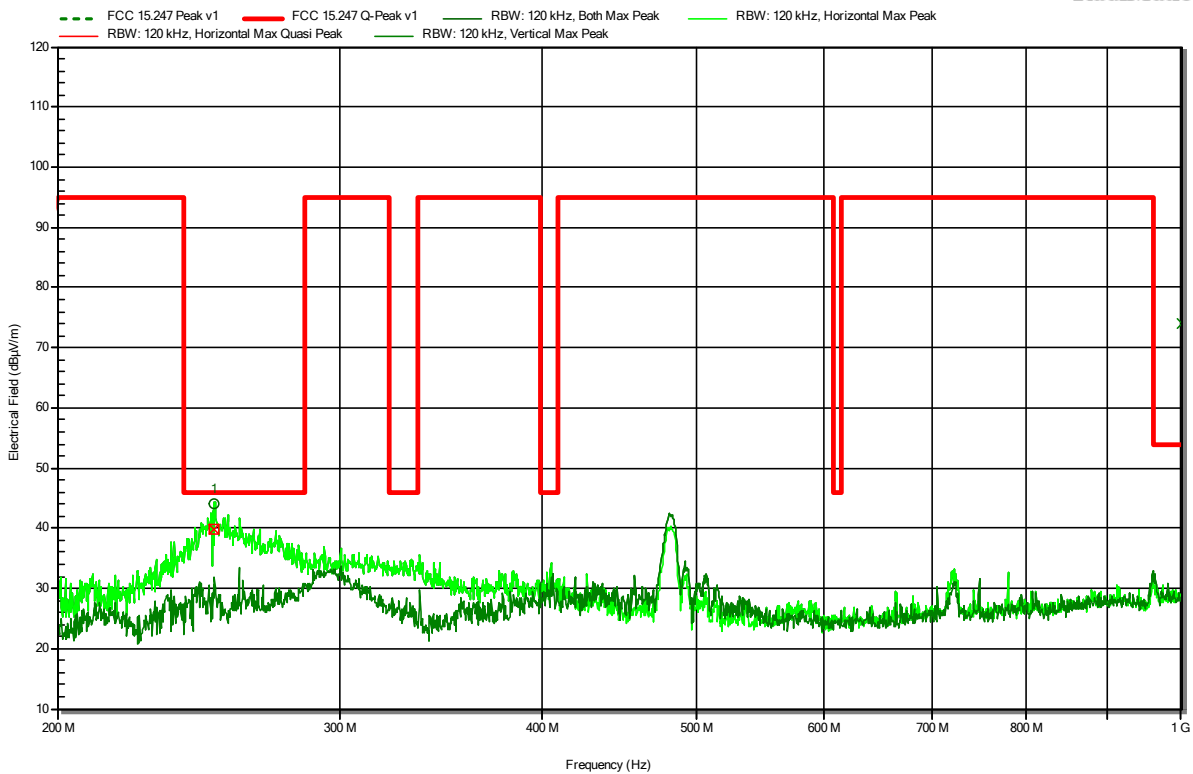
Frequency	Peak	Polarization			
249.46 MHz	44.5 dBµV/m	Horizontal			
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
249.46 MHz	39.3 dBµV/m	46 dBµV/m	-6.65 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; f=2462MHz; HT20
 Test Date: 2021-11-18
 Note:

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RadiMation



Frequency	Peak	Polarization			
250.36 MHz	44 dBµV/m	Horizontal			
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
250.36 MHz	39.8 dBµV/m	46 dBµV/m	-6.25 dB	Pass	Horizontal

Test Report No.: G0M-2011-9488-TFC247WF-V01

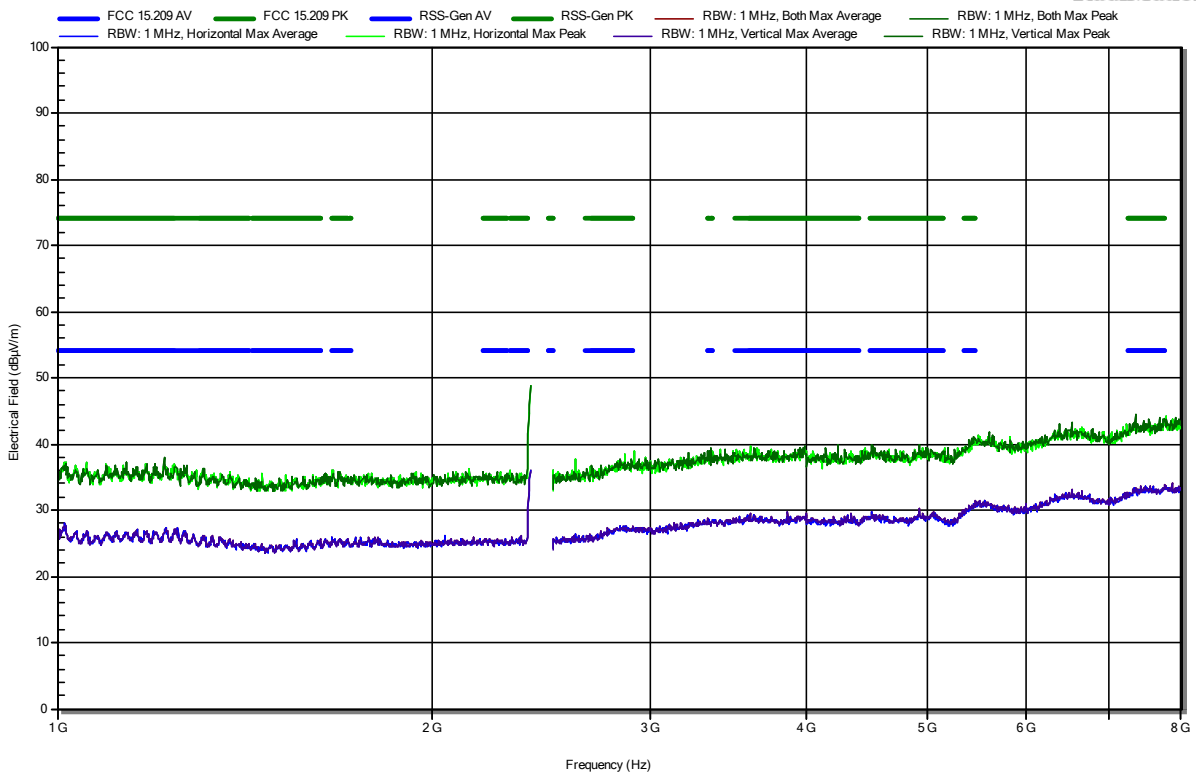
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2462MHz; HT20
 Test Date: 2021-11-03
 Note:

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RadiMation

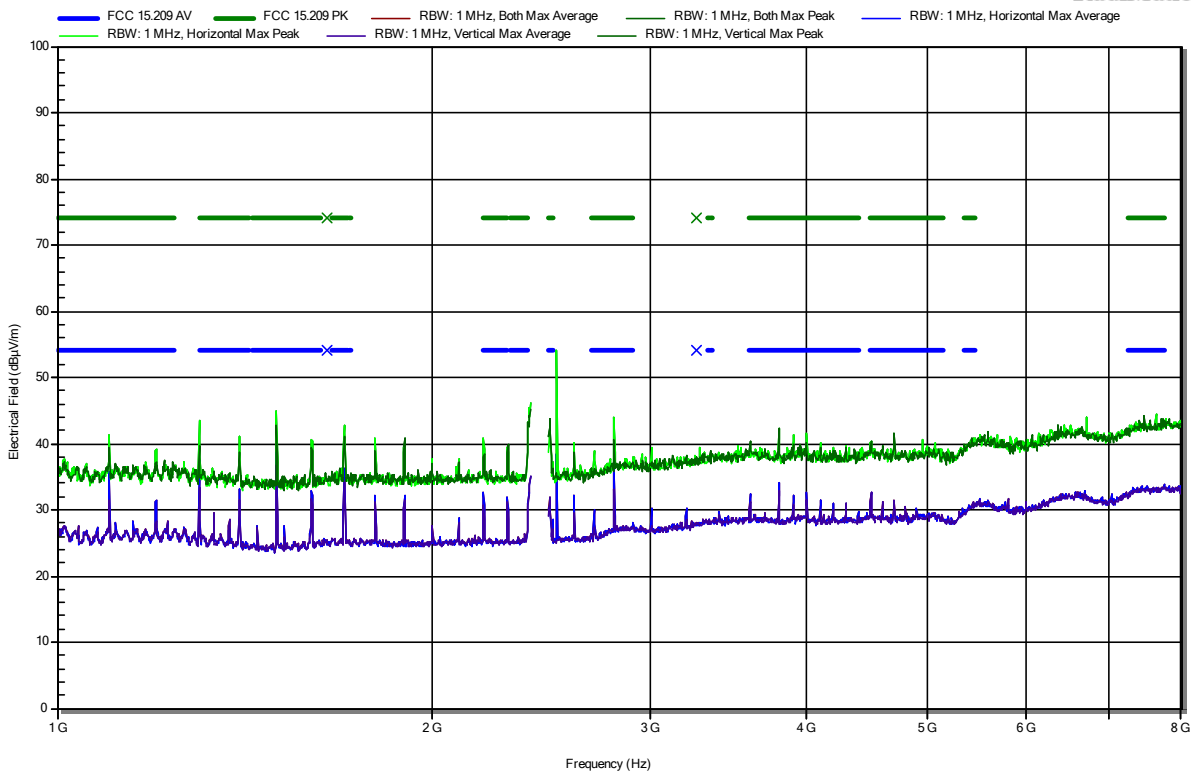


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2437MHz; HT20
 Test Date: 2021-11-02
 Note:

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RadiMation

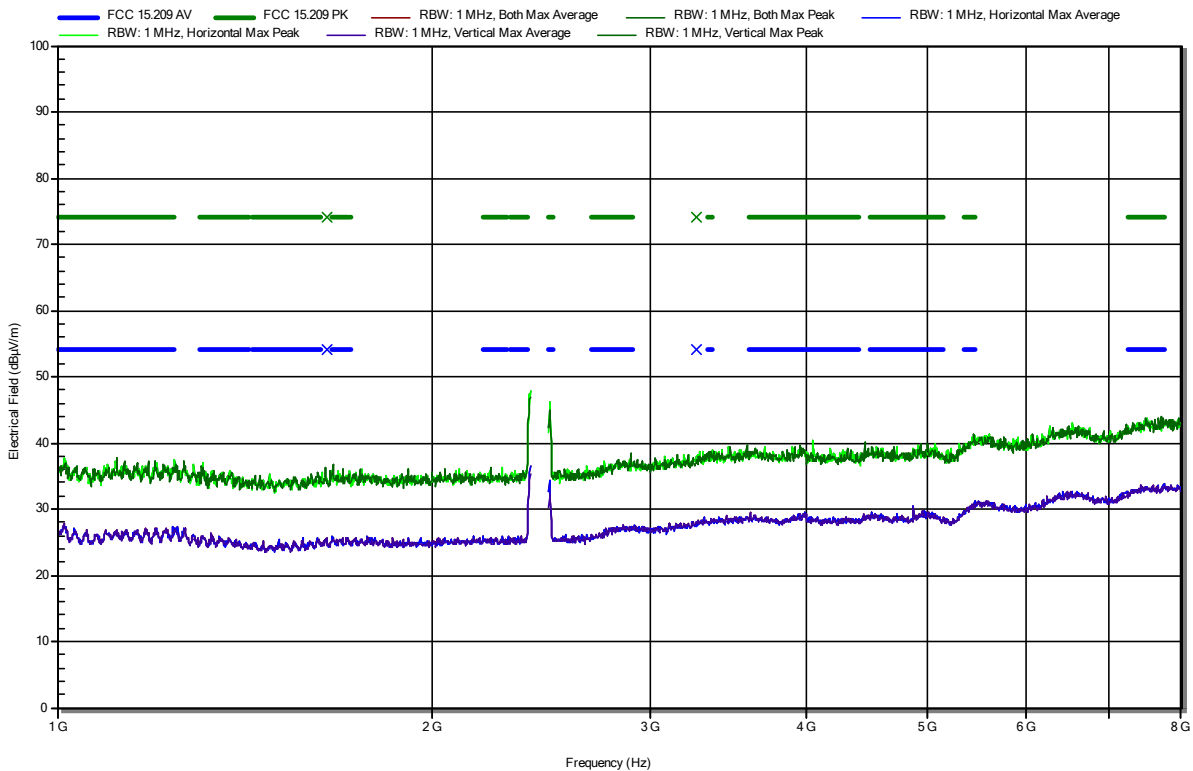


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2437MHz; HT20
 Test Date: 2021-11-03
 Note: Remeasurement; see test 38

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RadiMation

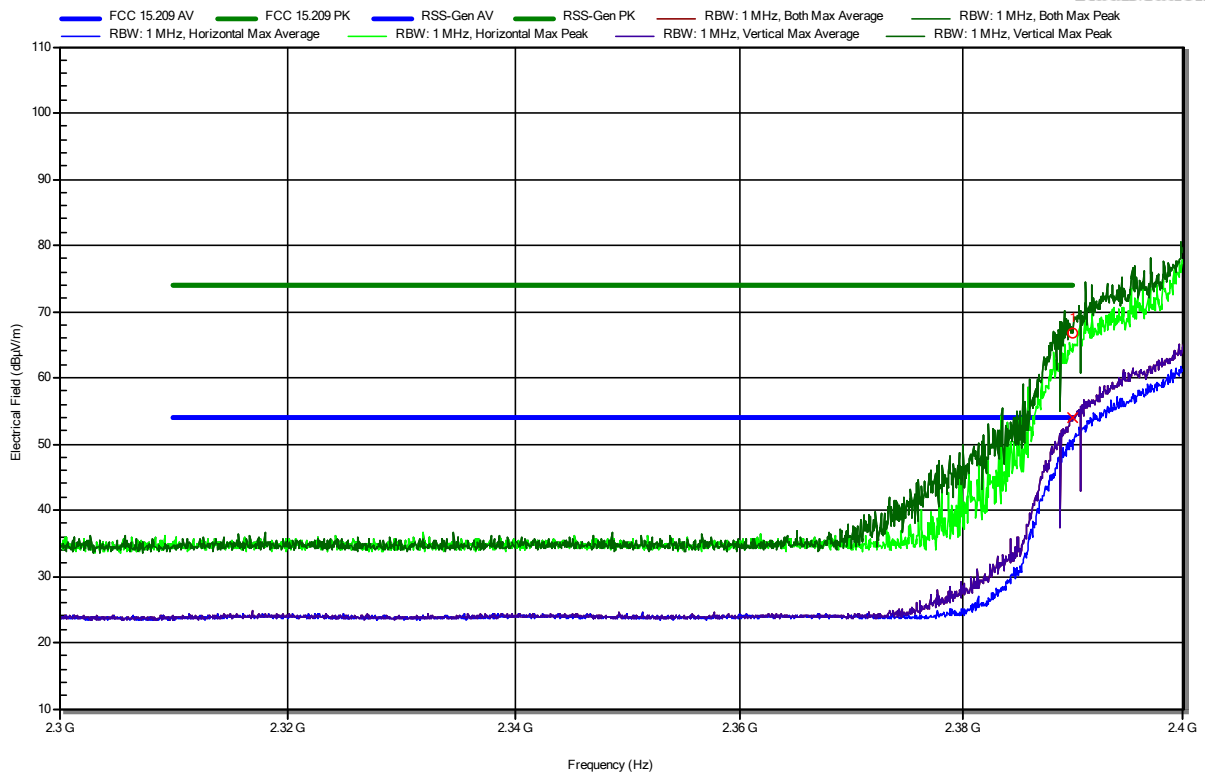


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2412MHz; HT20
 Test Date: 2021-11-02
 Note: lower bandedge

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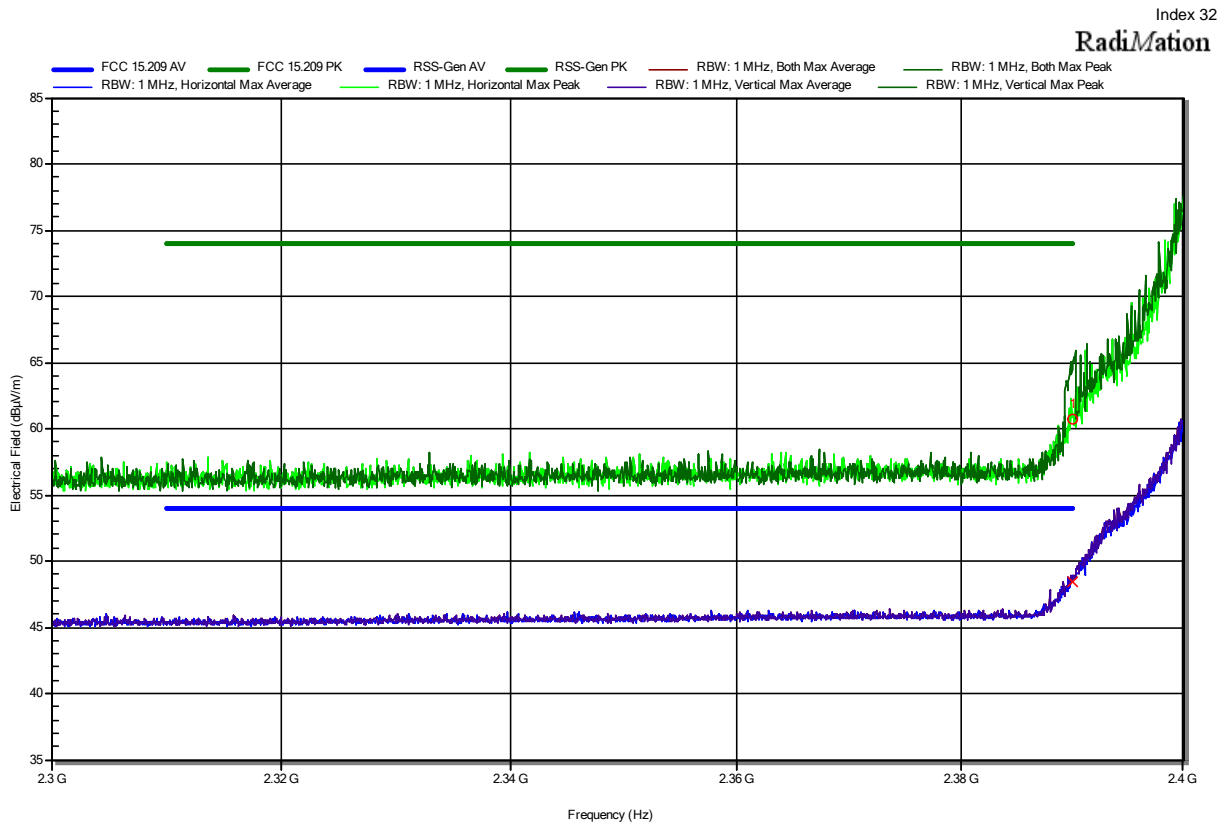
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.39 GHz	66.74 dBµV/m	74 dBµV/m	-7.26 dB	Pass	Vertical
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.39 GHz	54.04 dBµV/m	54 dBµV/m	0.04 dB	Fail	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2412MHz; HT20
 Test Date: 2021-11-02
 Note: lower bandedge; without preamp



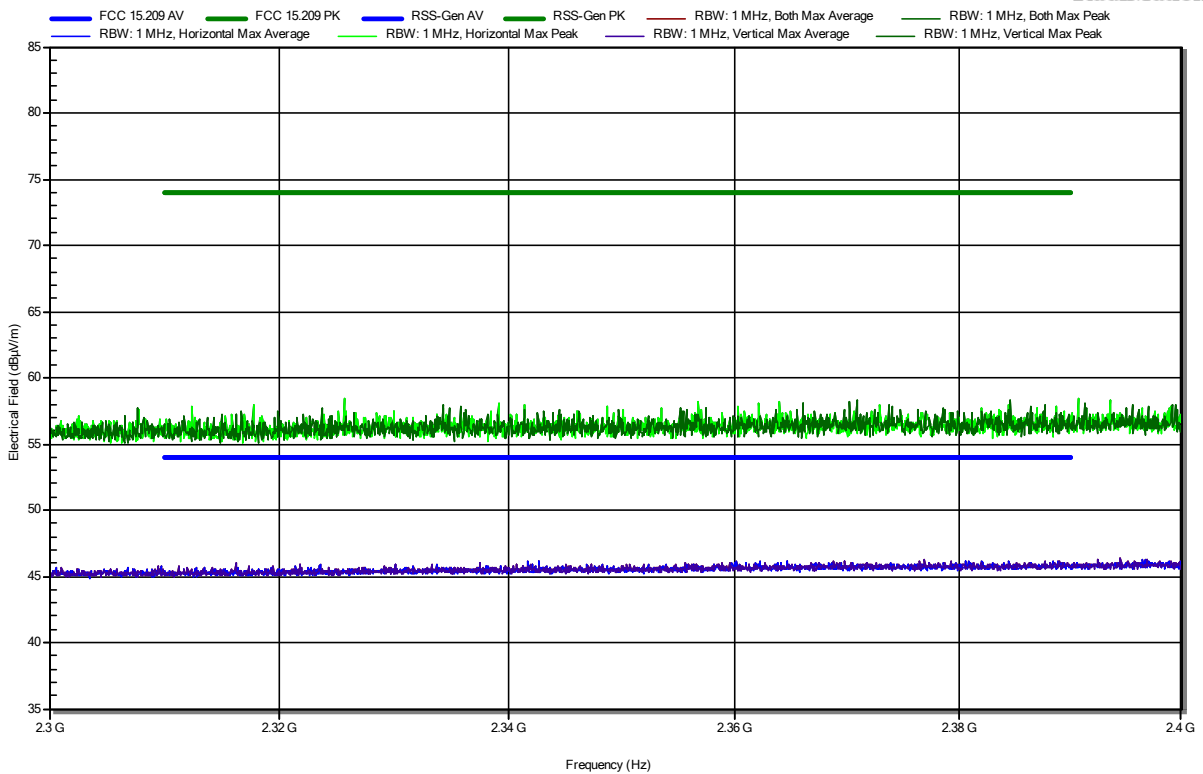
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.39 GHz	60.73 dBµV/m	74 dBµV/m	-13.27 dB	Pass	Vertical
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.39 GHz	48.45 dBµV/m	54 dBµV/m	-5.55 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2437MHz; HT20
 Test Date: 2021-11-03
 Note: lower bandedge

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RadiMation

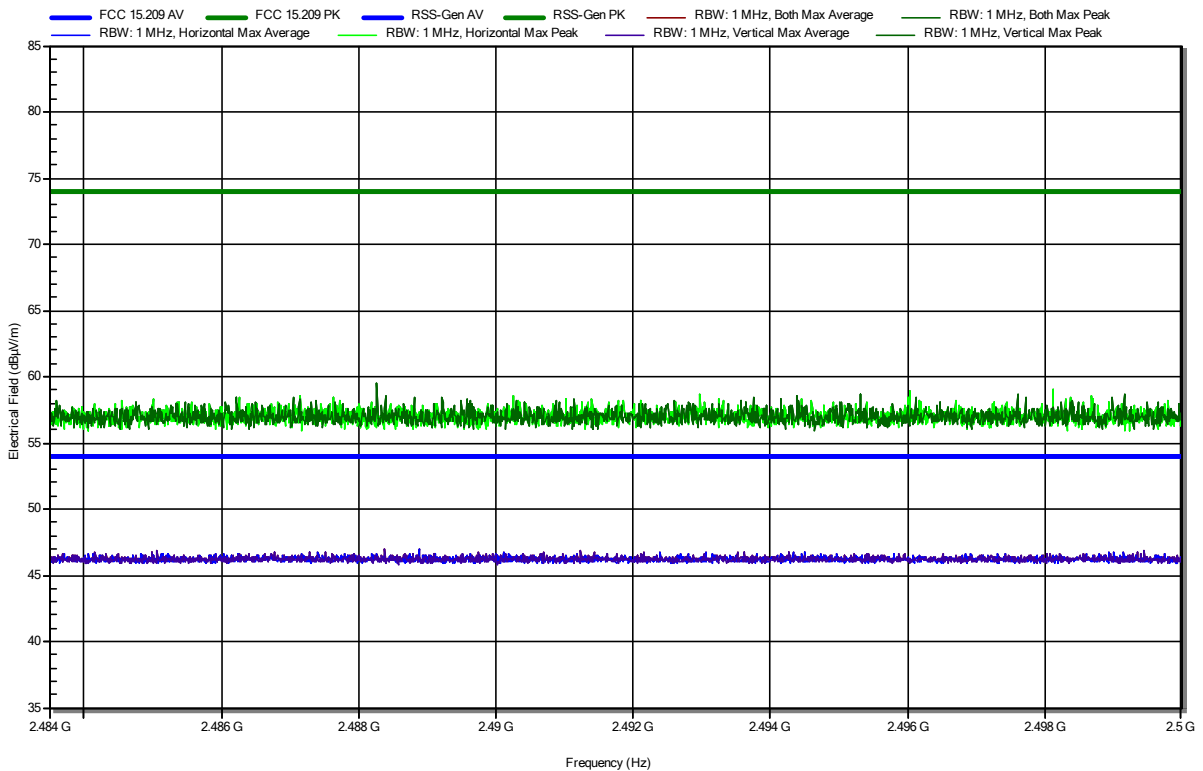


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2437MHz; HT20
 Test Date: 2021-11-03
 Note: upper bandedge

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RadiMation

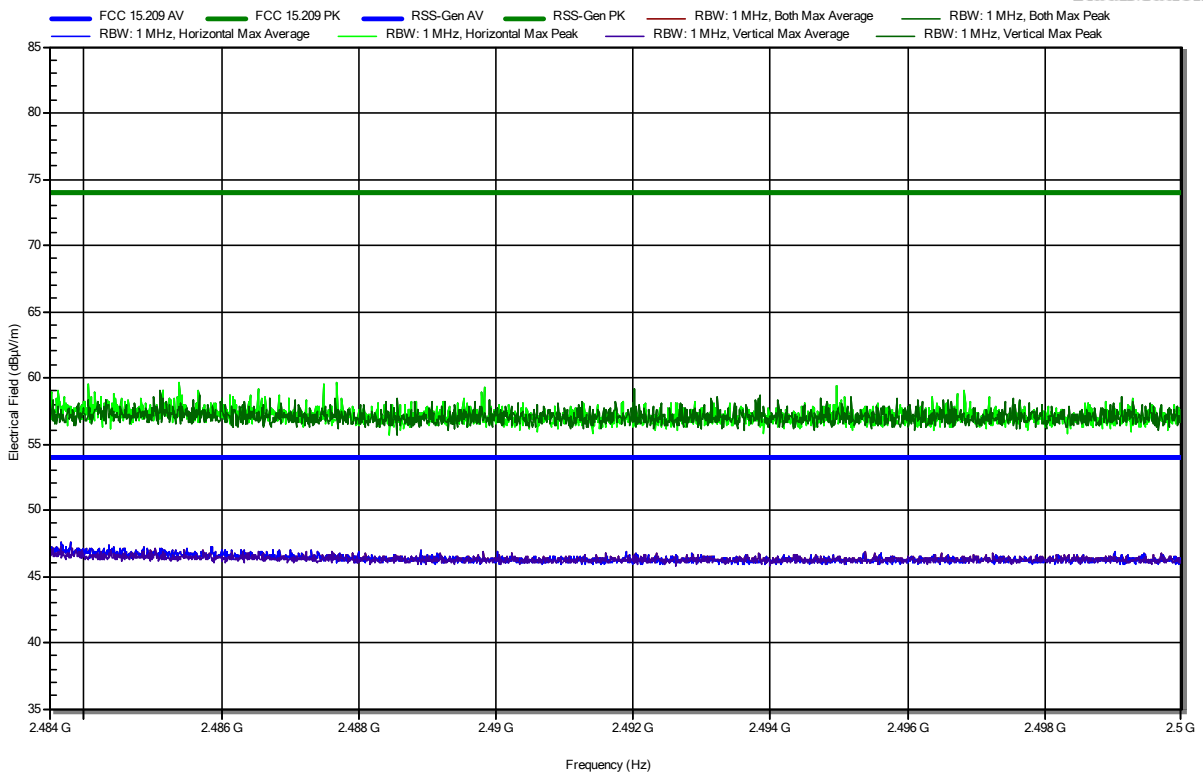


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2462MHz; HT20
 Test Date: 2021-11-03
 Note: upper bandedge

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RadiMation

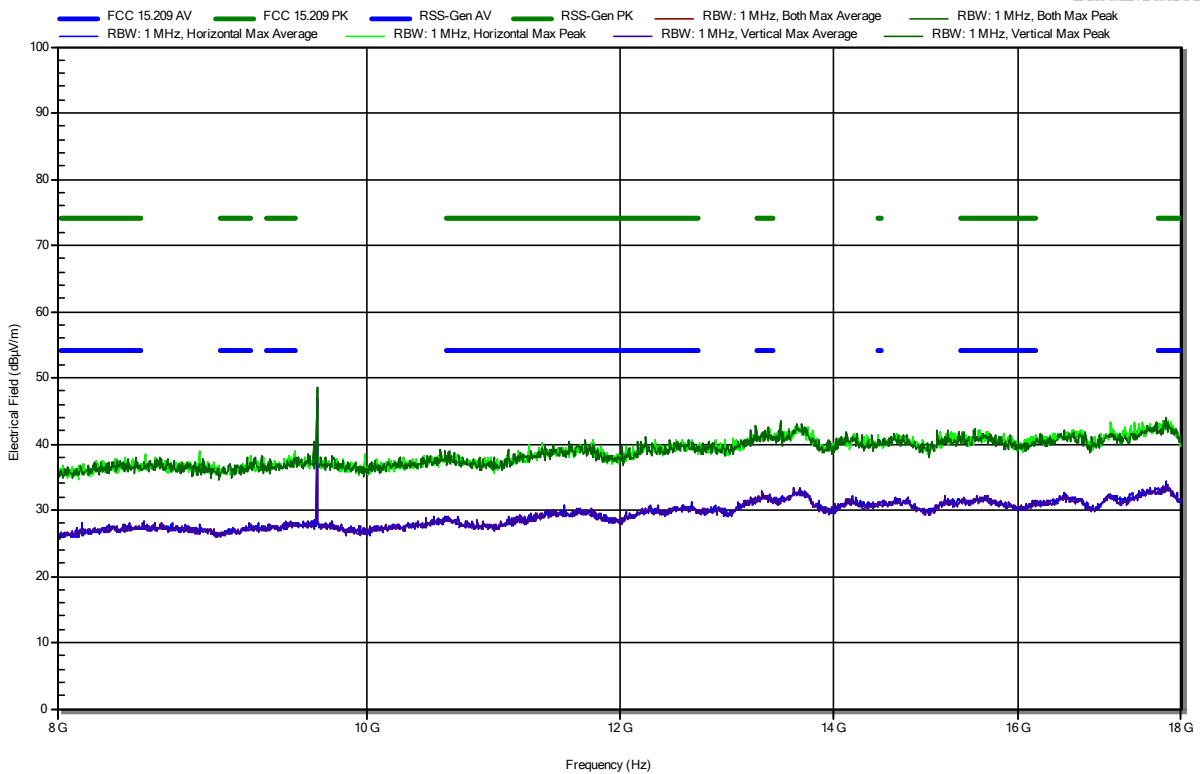


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; f=2412MHz; HT20
 Test Date: 2021-11-02
 Note:

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RadiMation

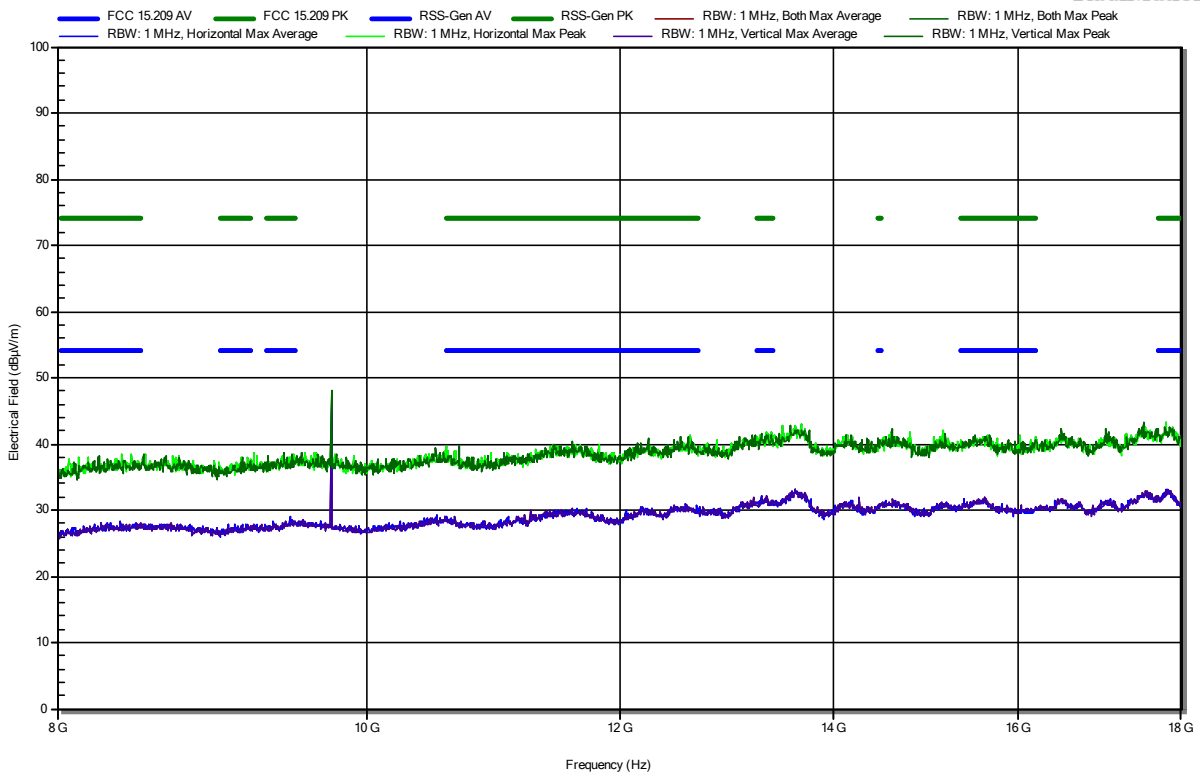


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; f=2437MHz; HT20
 Test Date: 2021-11-02
 Note:

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RadiMation

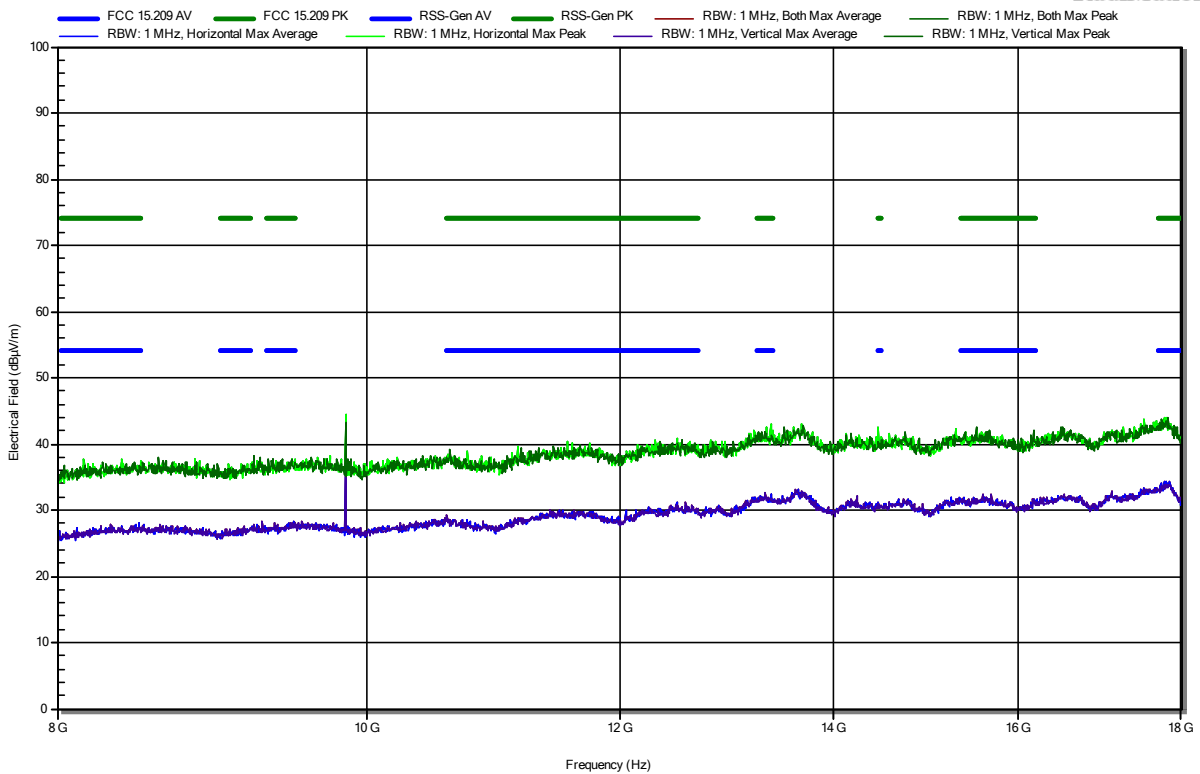


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; f=2462MHz; HT20
 Test Date: 2021-11-03
 Note:

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RadiMation

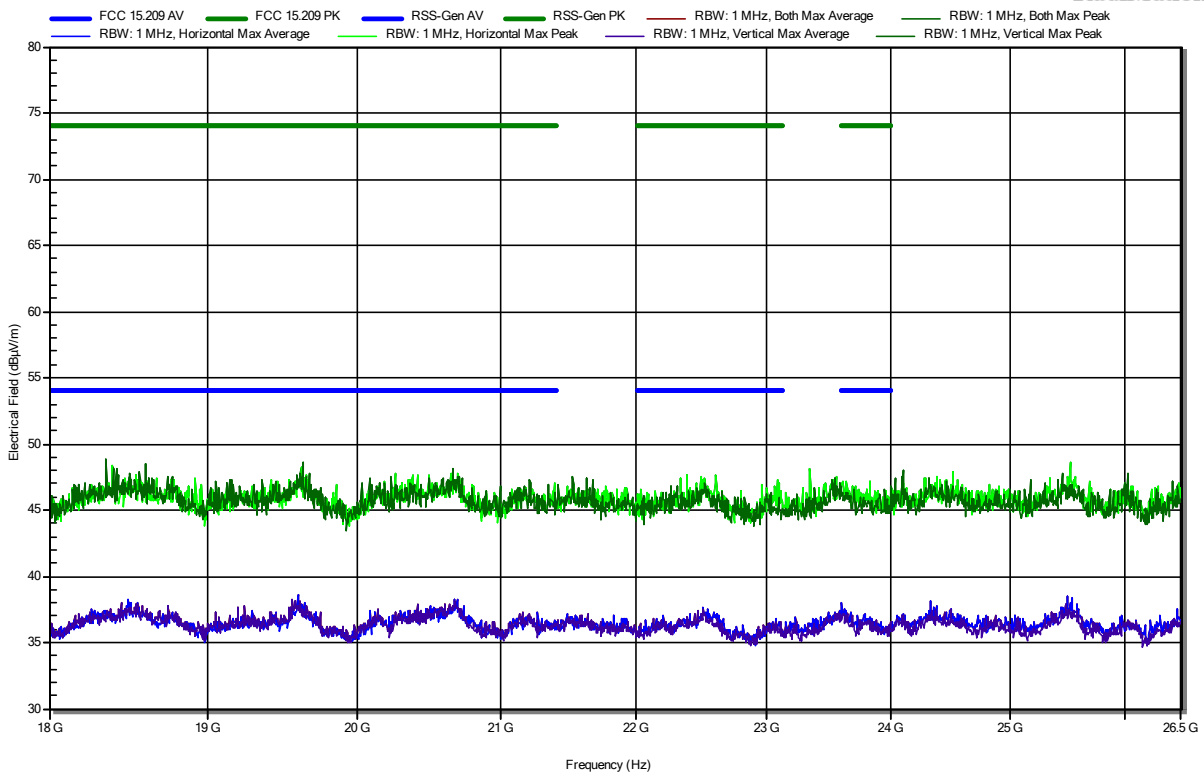


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; f=2412MHz; HT20
 Test Date: 2021-11-02
 Note:

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RadiMation

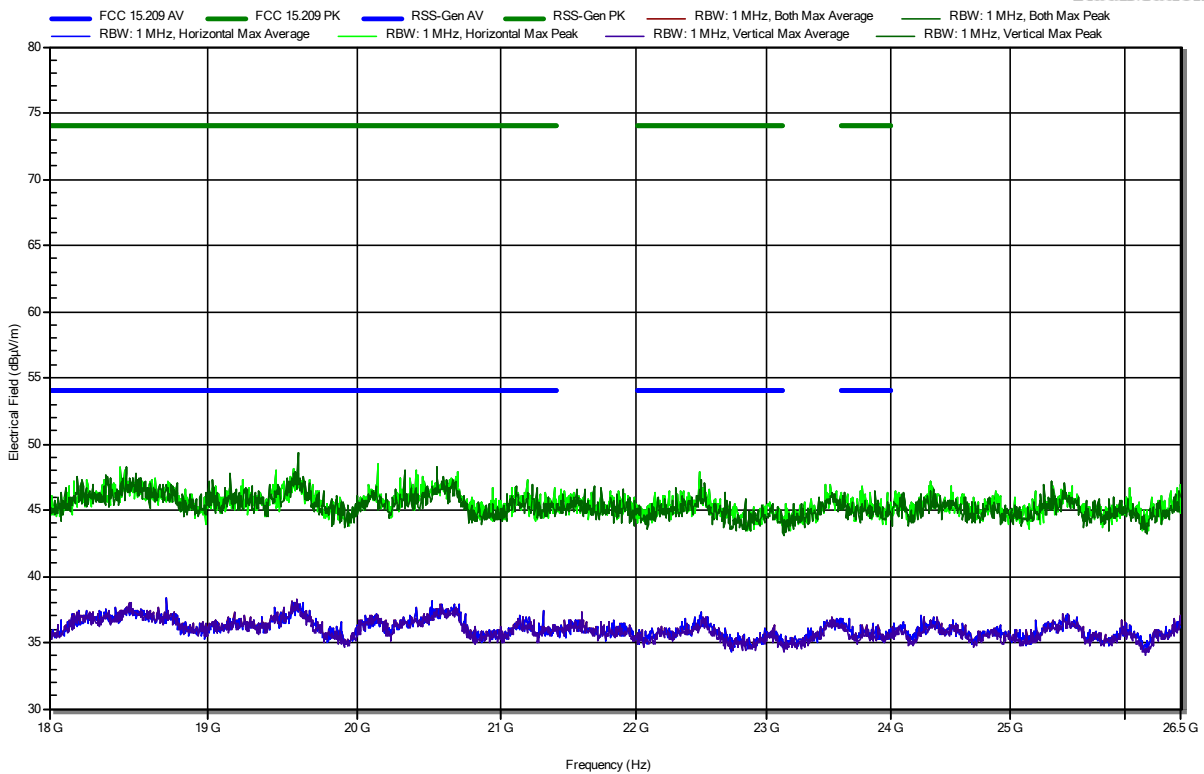


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; f=2437MHz; HT20
 Test Date: 2021-11-02
 Note:

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RadiMation

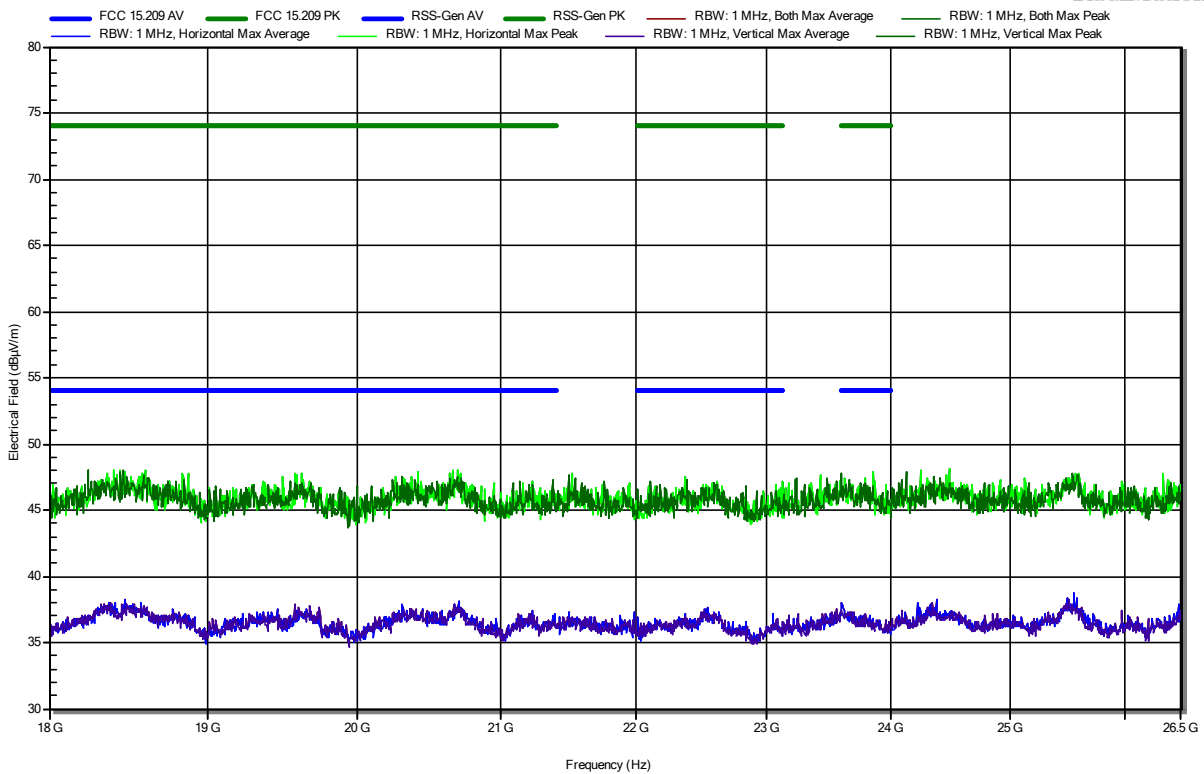


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; f=2462MHz; HT20
 Test Date: 2021-11-03
 Note:

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RadiMation

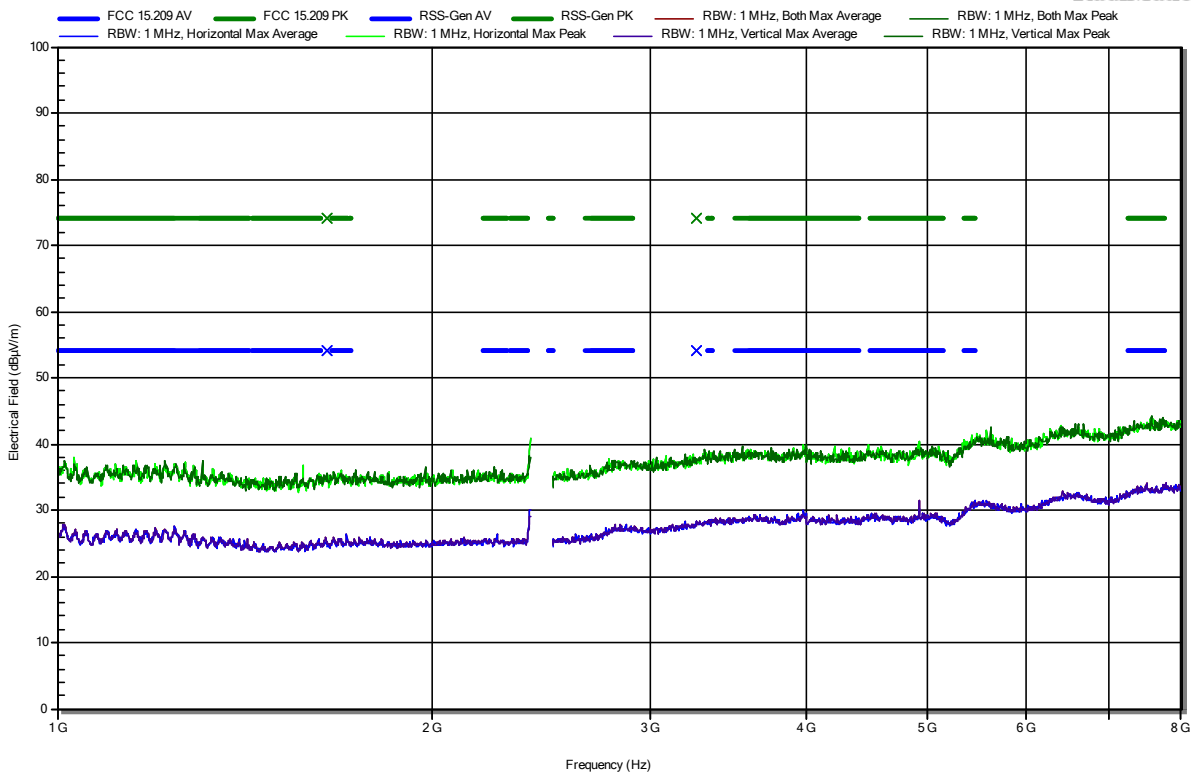


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2462MHz; CCK; datarate=Rate_11Mb_S; TXChain=1
 Test Date: 2021-11-03
 Note:

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RadiMation

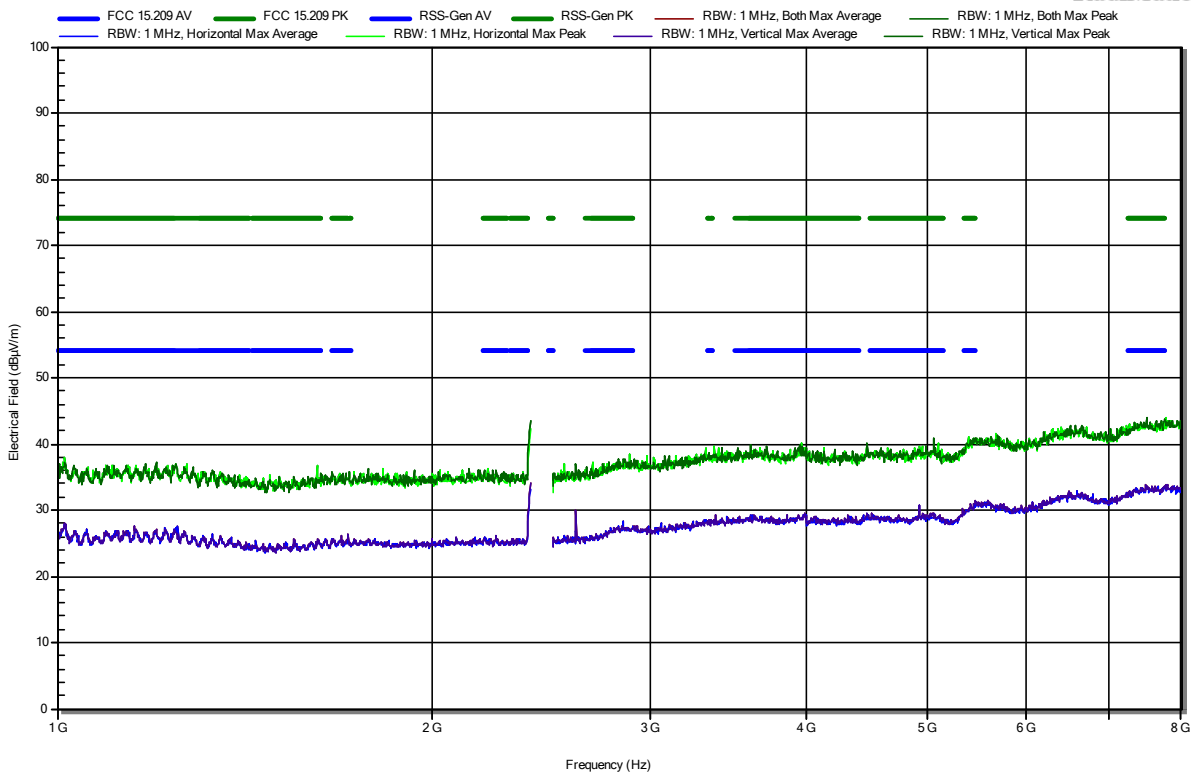


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2462MHz; CCK; datarate=Rate_11Mb_S; TXChain=2
 Test Date: 2021-11-03
 Note:

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RadiMation

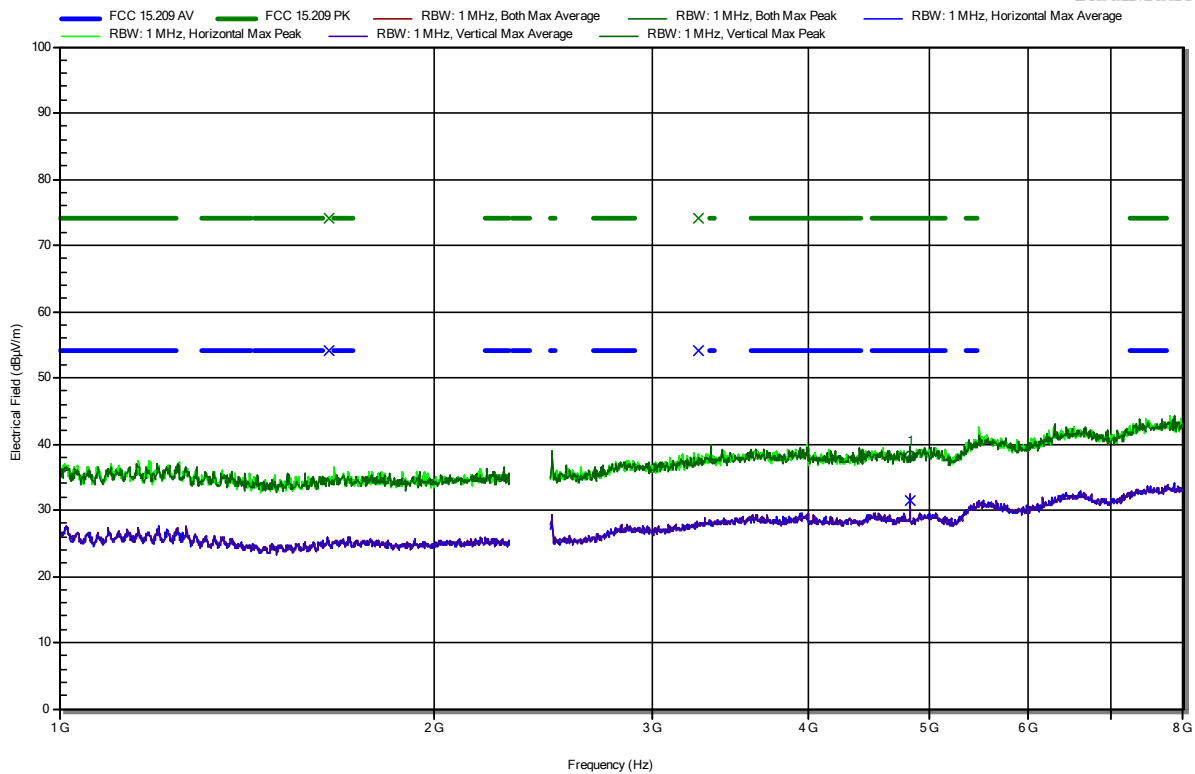


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2412MHz; CCK; datarate=Rate_11Mb_S; TXChain=2
 Test Date: 2021-11-03
 Note:

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RadiMation



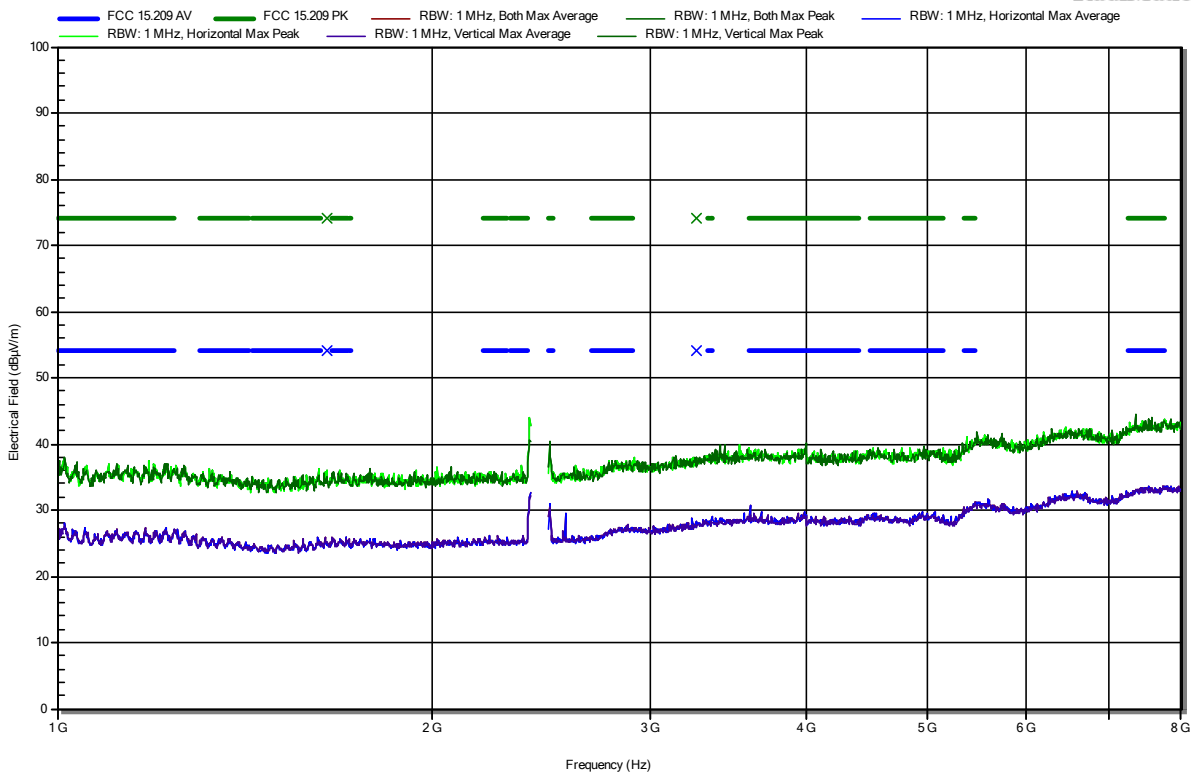
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8244 GHz	38.14 dBµV/m	74 dBµV/m	-35.86 dB	Pass	Vertical
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8244 GHz	31.43 dBµV/m	54 dBµV/m	-22.57 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2437MHz; CCK; datarate=Rate_11Mb_S; TXChain=2
 Test Date: 2021-11-03
 Note:

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RadiMation

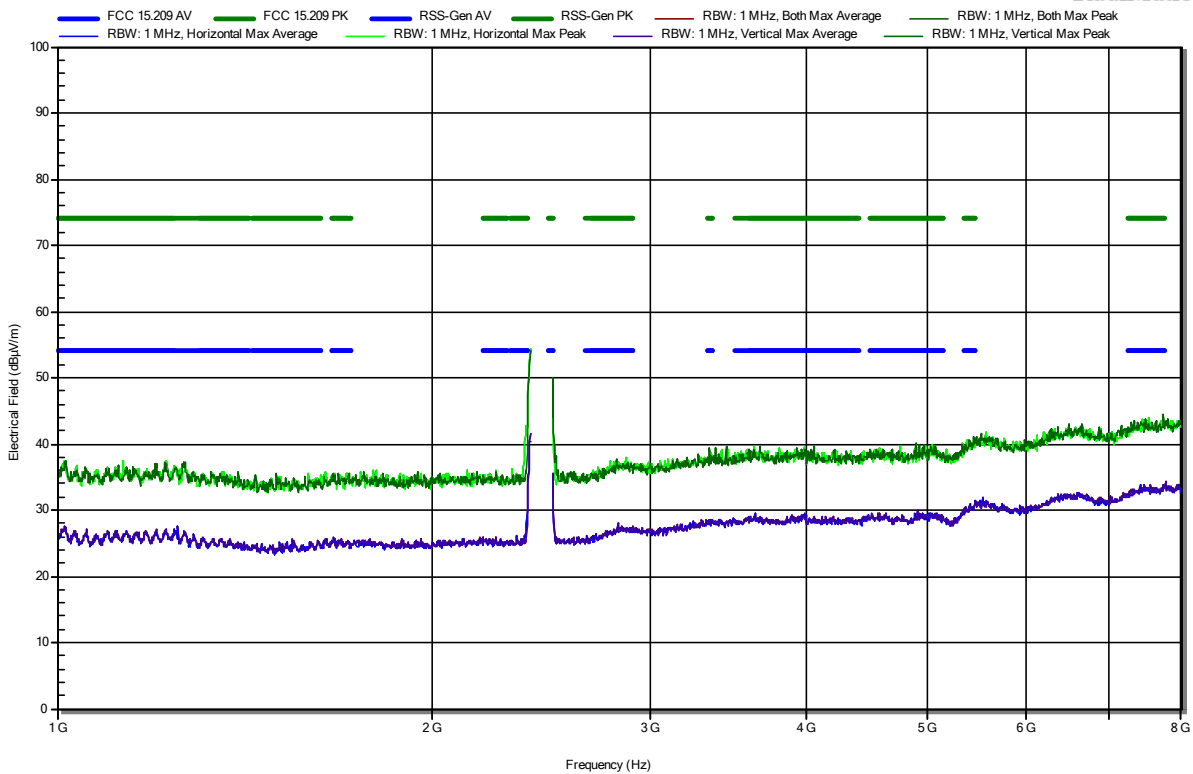


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2452MHz; HT40+; datarate=MCS_15_40
 Test Date: 2021-11-03
 Note:

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RadiMation

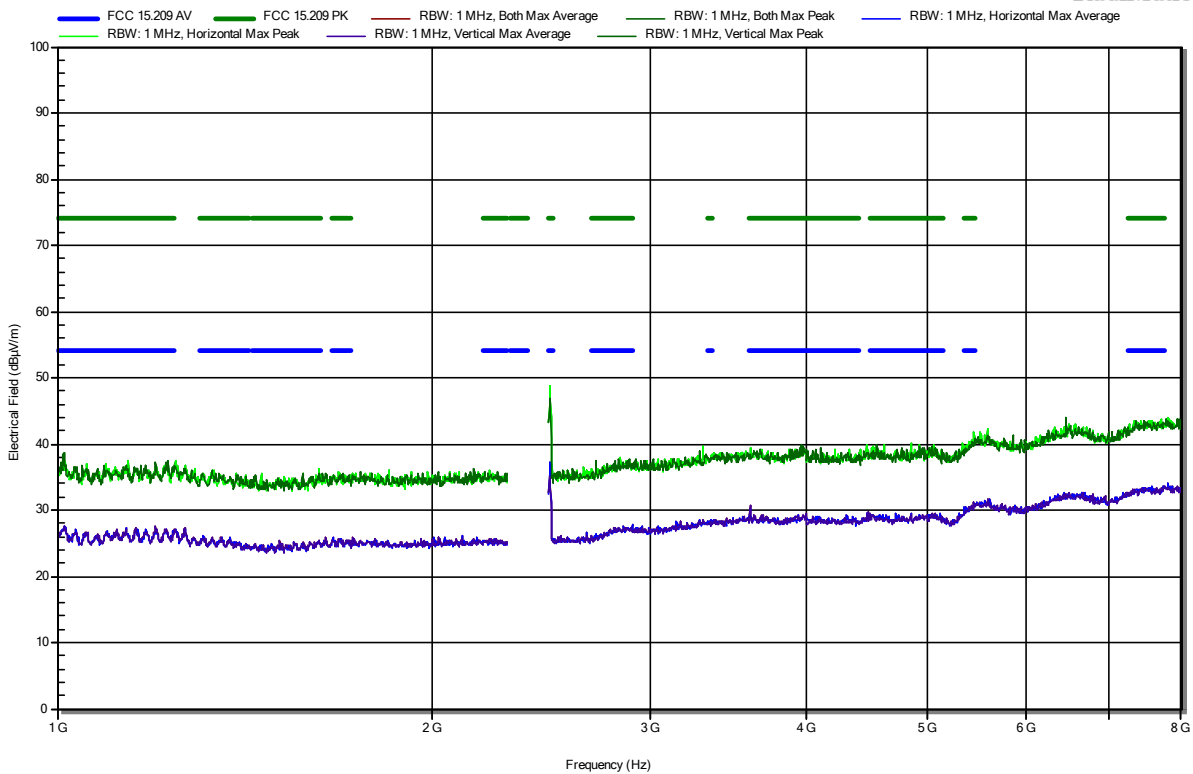


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2422MHz; HT40+; datarate=MCS_15_40
 Test Date: 2021-11-03
 Note:

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RadiMation

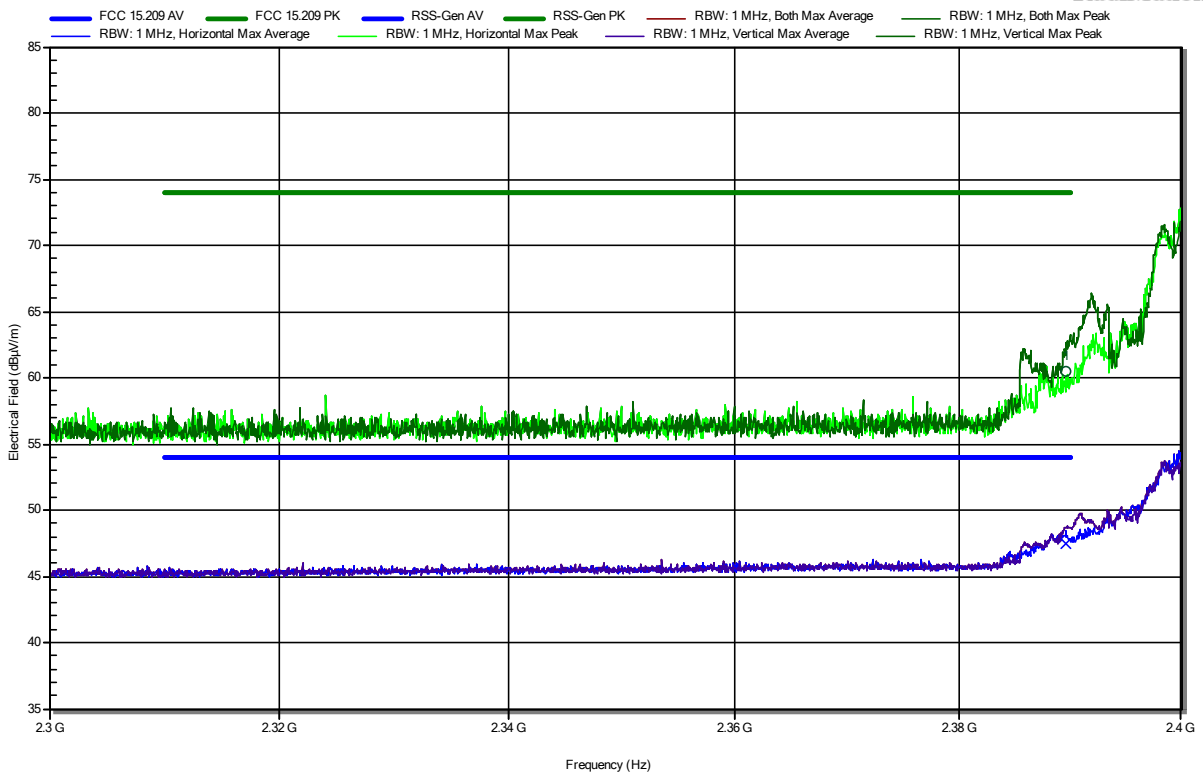


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2422MHz; HT40+; datarate=MCS_15_40
 Test Date: 2021-11-03
 Note: lower bandedge

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RadiMation



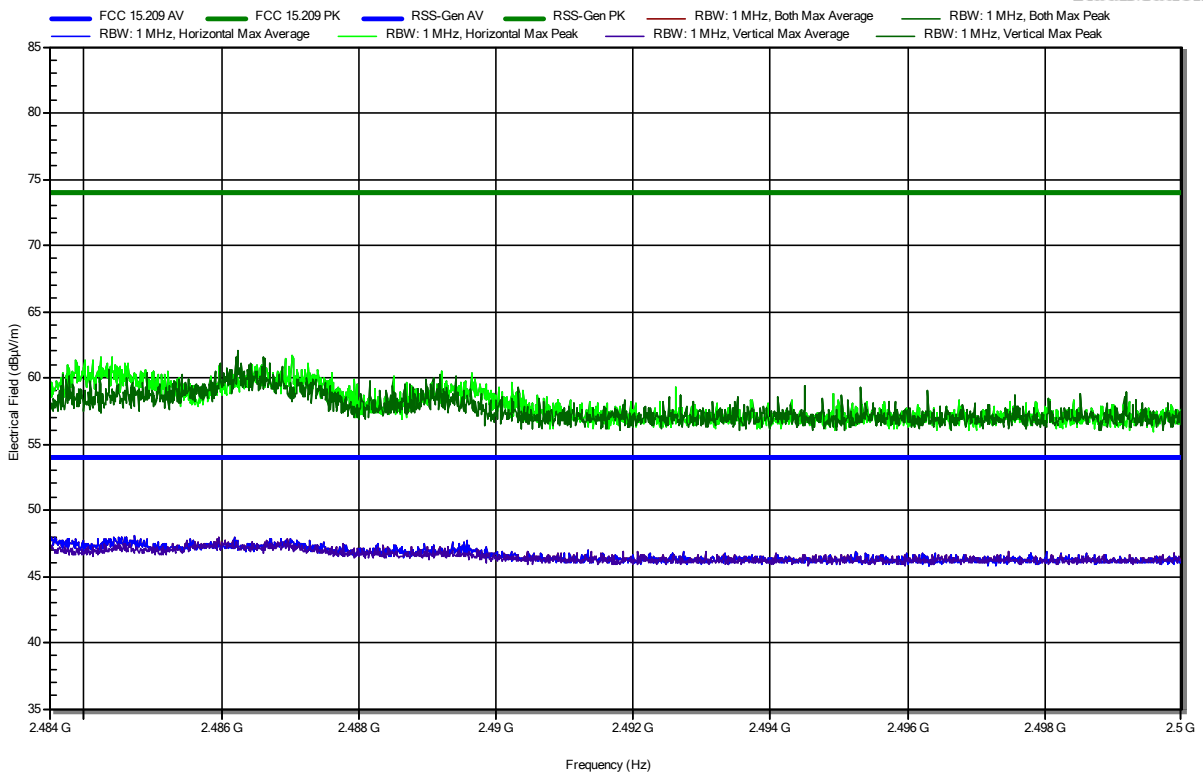
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.3896 GHz	60.47 dBµV/m	74 dBµV/m	-13.53 dB	Pass	Vertical
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.3896 GHz	47.51 dBµV/m	54 dBµV/m	-6.49 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2452MHz; HT40+; datarate=MCS_15_40
 Test Date: 2021-11-03
 Note: upper bandedge

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RadiMation

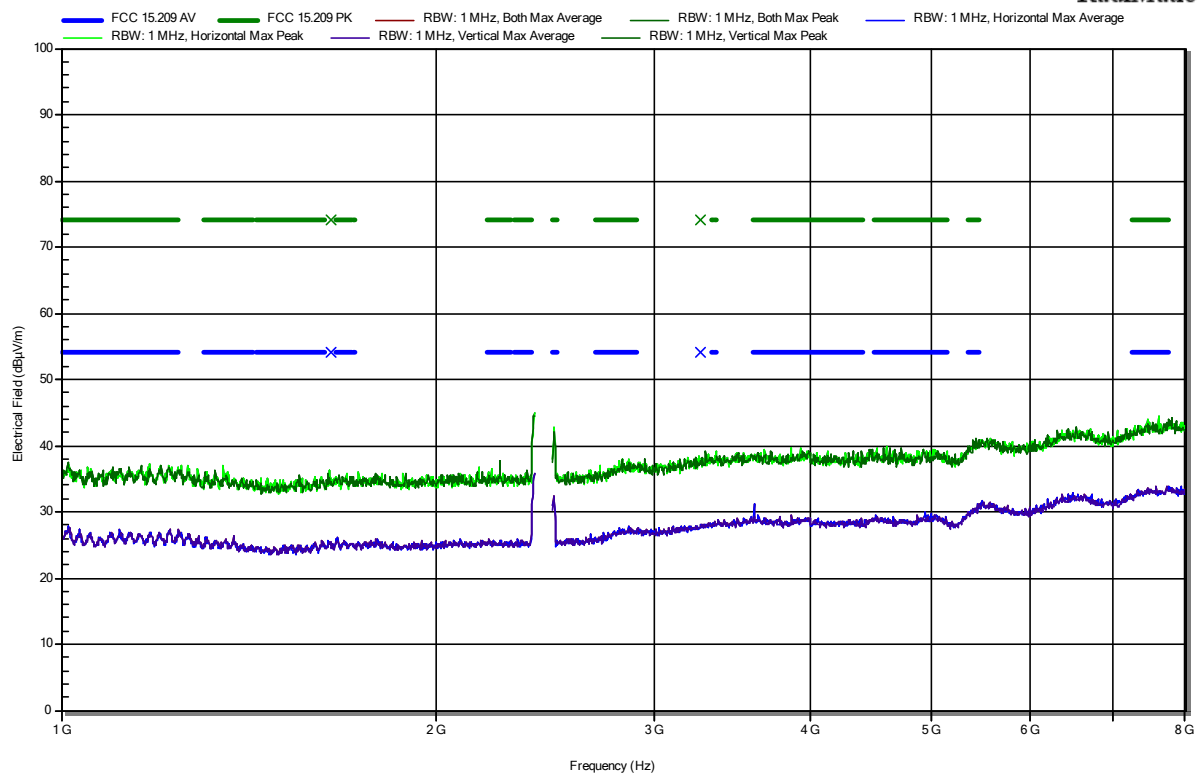


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; f=2437MHz; No-HT; datarate=48Mbps; TXChain=2
 Test Date: 2021-11-03
 Note:

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RadiMation



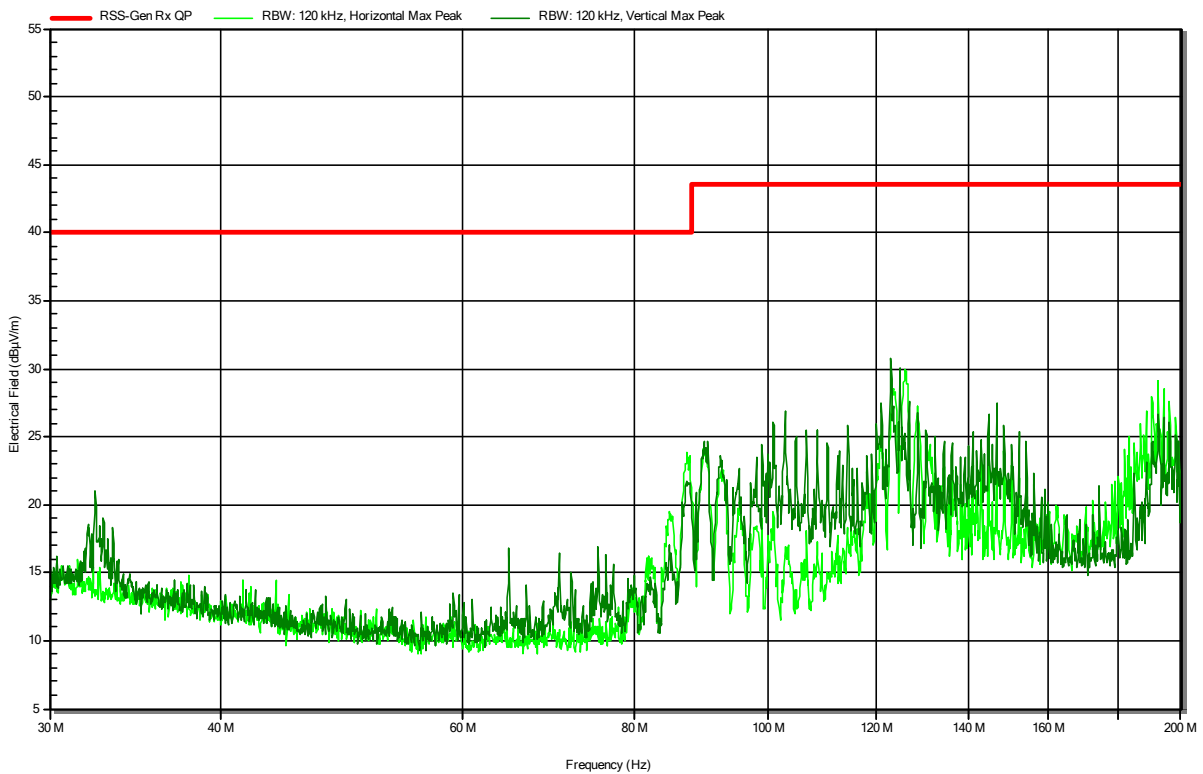
ANNEX B Receiver spurious emissions

Radiated Spurious Emissions according to RSS-GEN

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Rx; Receive
 Test Date: 2021-11-17
 Note:

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RadiMation

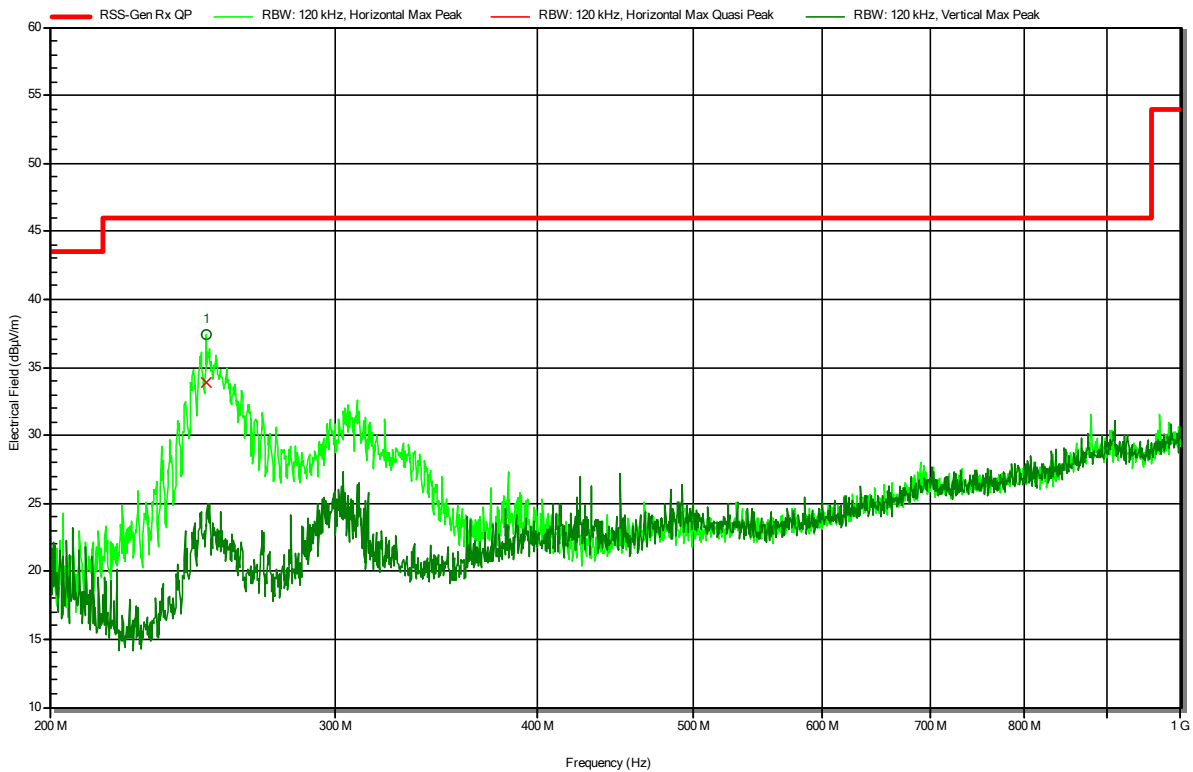


Radiated Spurious Emissions according to RSS-GEN

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Rx; Receive
 Test Date: 2021-11-17
 Note:

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
250.2065 MHz	37.5 dBµV/m	None	None	None	Horizontal

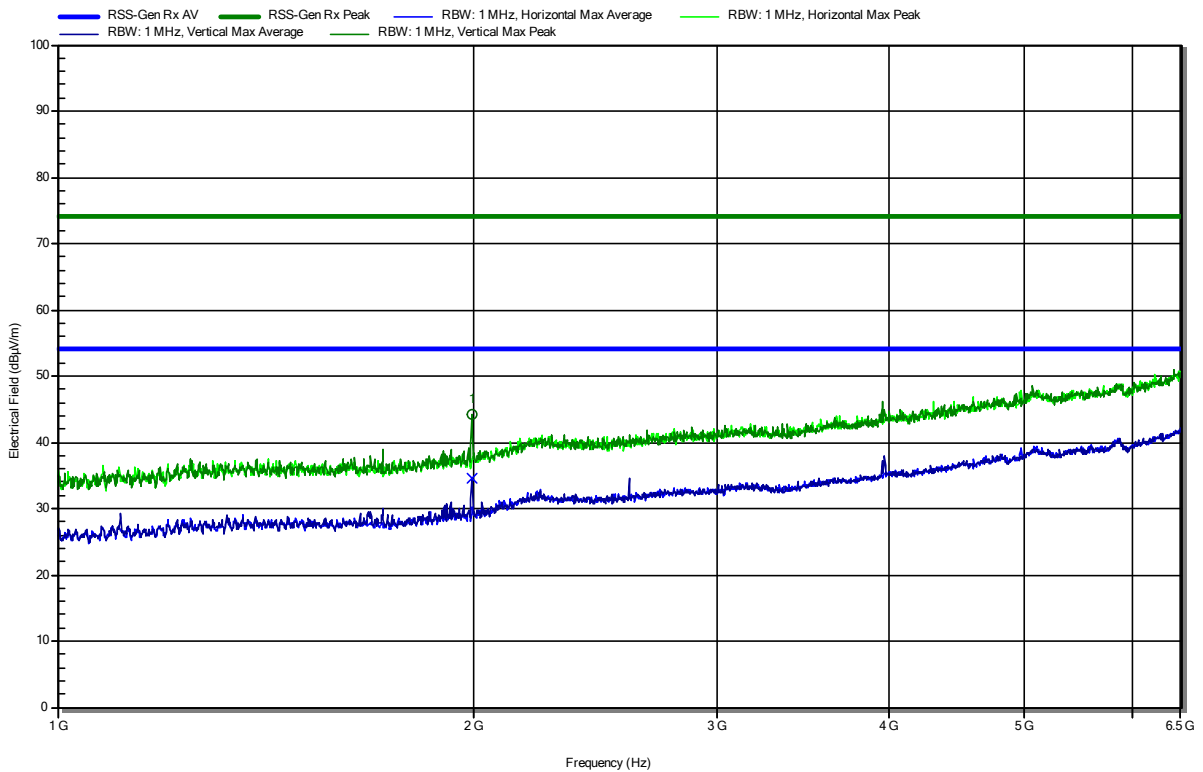
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
250.2065 MHz	33.9 dBµV/m	46 dBµV/m	-12.08 dB	Pass	Horizontal

Radiated Spurious Emissions according to RSS-GEN

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Rx; Receive
 Test Date: 2021-11-18
 Note:

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.993 GHz	44.14 dBµV/m	74 dBµV/m	-29.86 dB	Pass	Vertical
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
1.993 GHz	34.65 dBµV/m	53.98 dBµV/m	-19.33 dB	Pass	Vertical

Radiated Spurious Emissions according to RSS-GEN

Project Number: G0M-2011-9488
 Applicant: Leica Geosystems AG
 Model Description: UAV 3D measurement device
 Model: BLK2FLY
 Test Sample ID: 35554
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Degenhardt
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom: 14.8 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Rx; Receive
 Test Date: 2021-11-18
 Note:

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RadiMation

