Annex 1: Measurement diagrams to
T E S T R E P O R T
No.: 16-1-0190801T03a

According to:

FCC Regulations
Part 15.205, Part 15.209, Part 15.247

ISED-Regulations
RSS-Gen, Issue 4, RSS-247, Issue 2

for

Intel Corporation

RCM24G Radio Control Module 2.4 GHz
+
PRESTTA Antenna + INTEL FA5 Antenna Ports 1 & 5

FCC-ID: 2AJ2A-RCM24G
IC: 1000B-RCM24G
PMN:RCM24G
HVIN:D
FVIN: RCM24G_12017USCN

Laboratory Accreditation and Listings			
DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01	MRA US-EU 0003	Industry Canada Reg. No.: 3462D-2 Reg. No.: 3462D-3	Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2666 C-2914, T-1967, G-301
Wi Fi ALLIANCE AUTHORIZED RF LABORATORY	ctia Authorized™ Test Lab Lab Code: 20011130-00		
accredited according to DIN EN ISO/IEC 17025			

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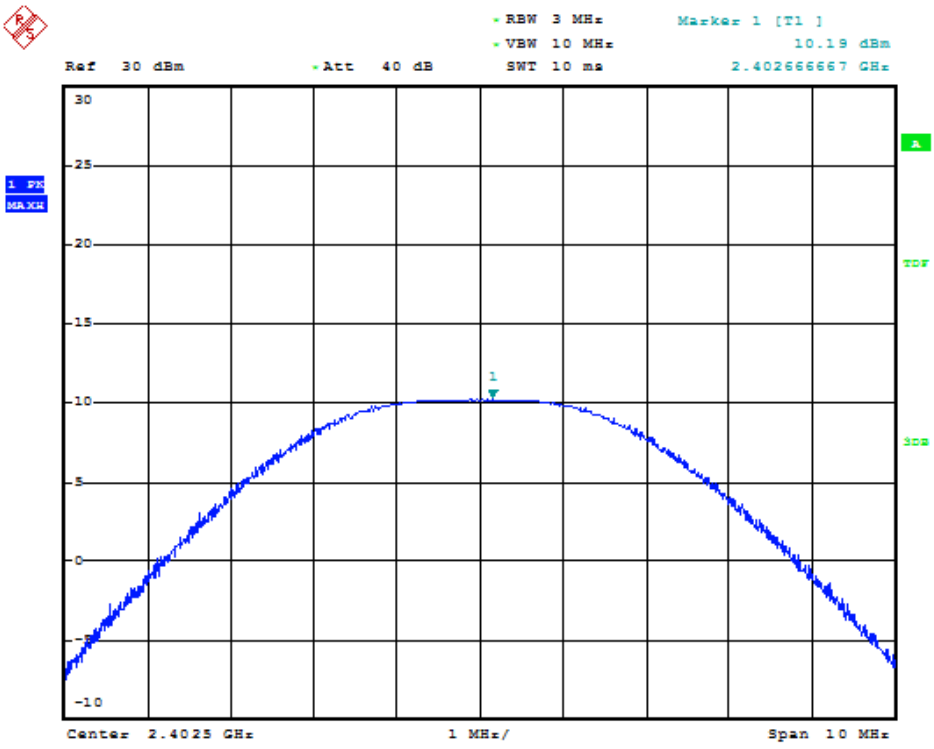
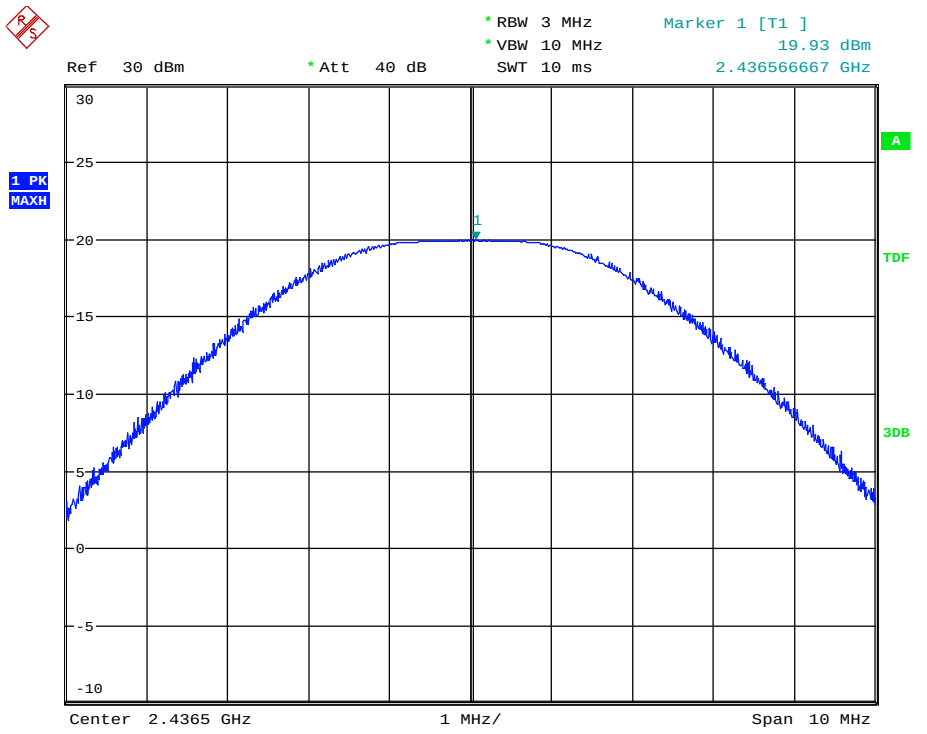
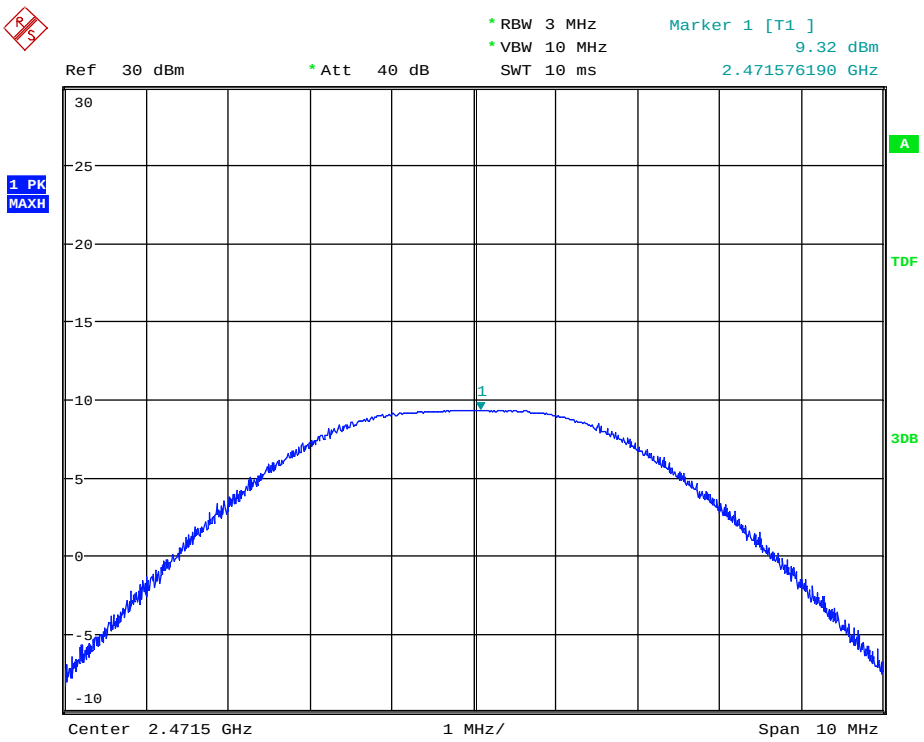


Plot 1: Conducted Power-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm

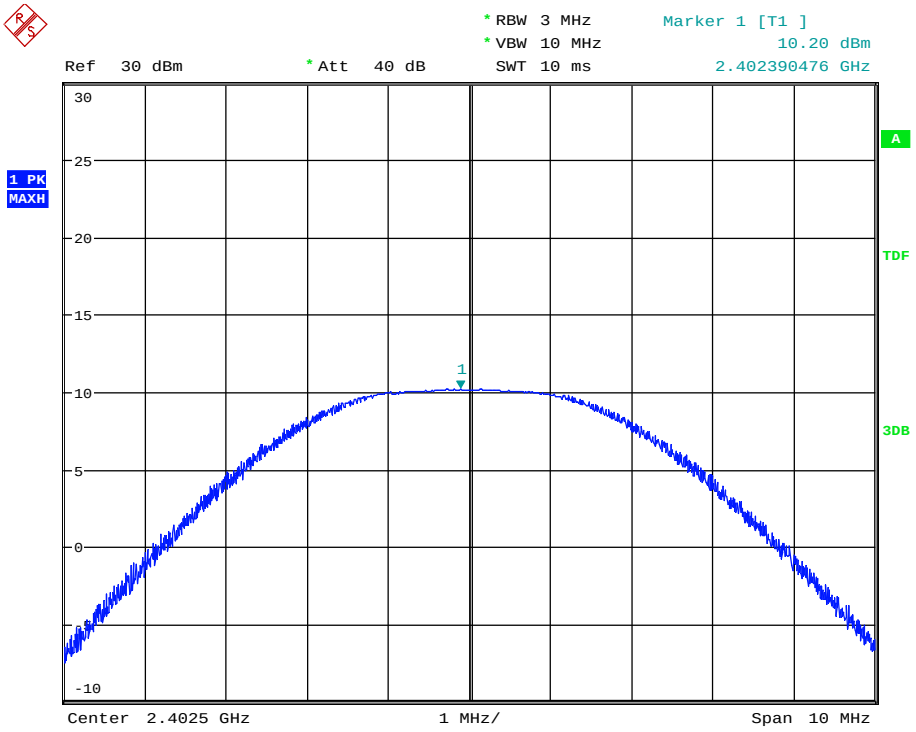


Plot 2: Conducted Power-RCM24G-MSK-50Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

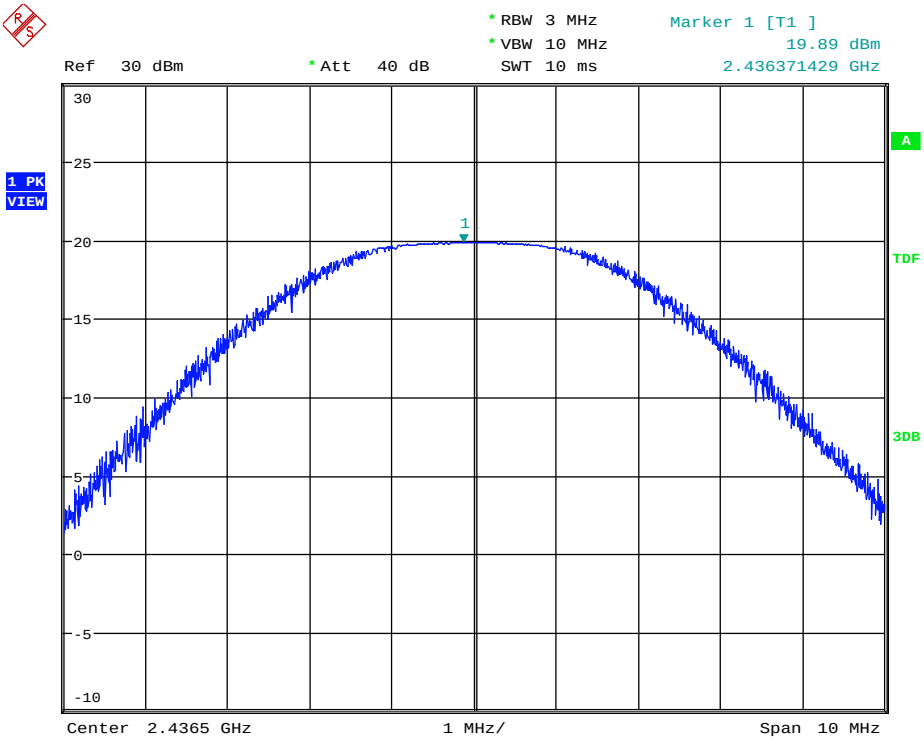


Plot 3: Conducted Power-RCM24G-MSK-50Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

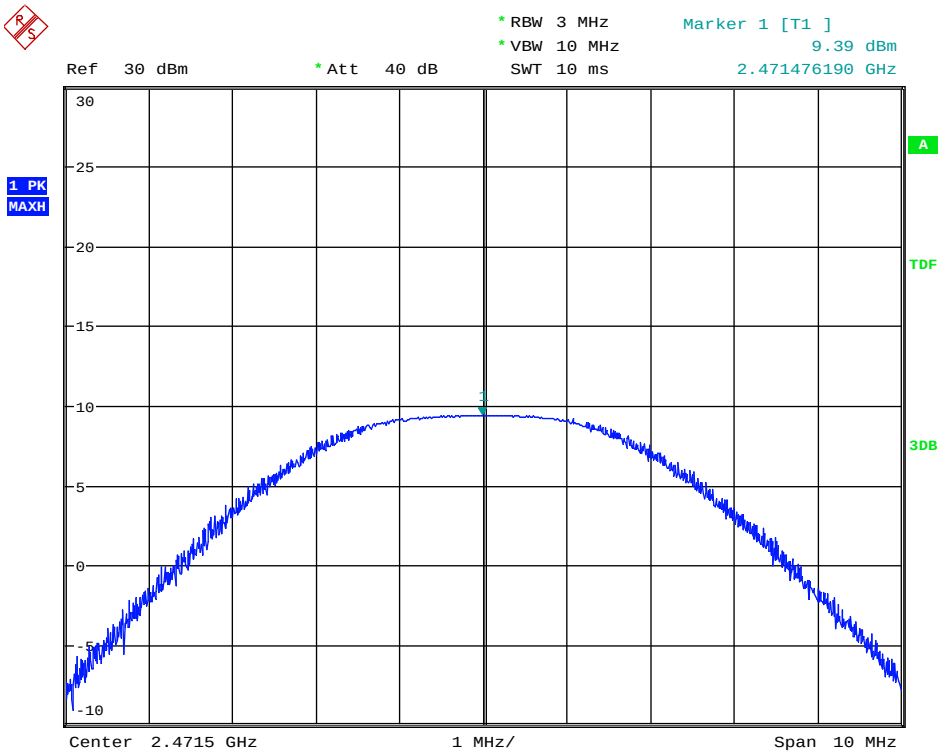
1.1.2. MSK-Data Rate 100Kbps



Plot 4: Conducted Power-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm

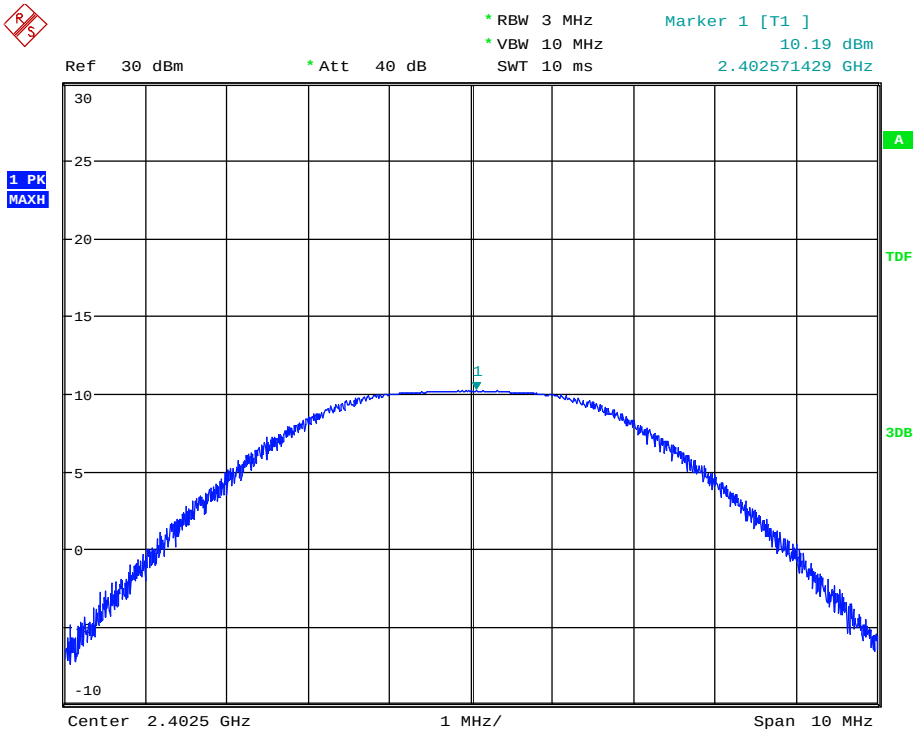


Plot 5: Conducted Power-RCM24G-MSK-100Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

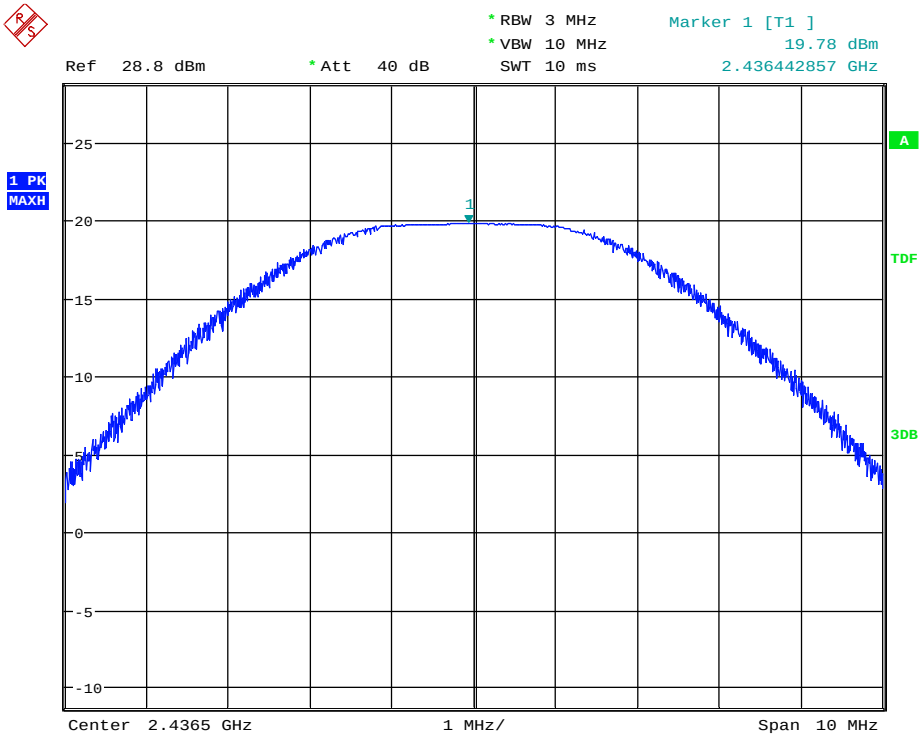


Plot 6: Conducted Power-RCM24G-MSK-100Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

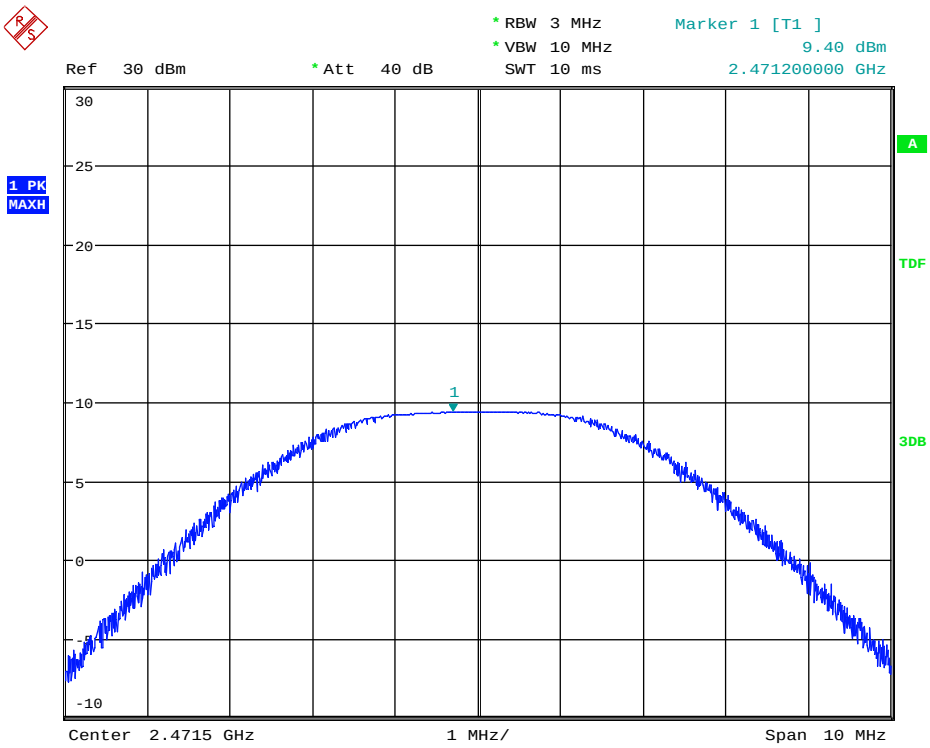
1.1.3. MSK-Data Rate 250Kbps



Plot 7: Conducted Power-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm

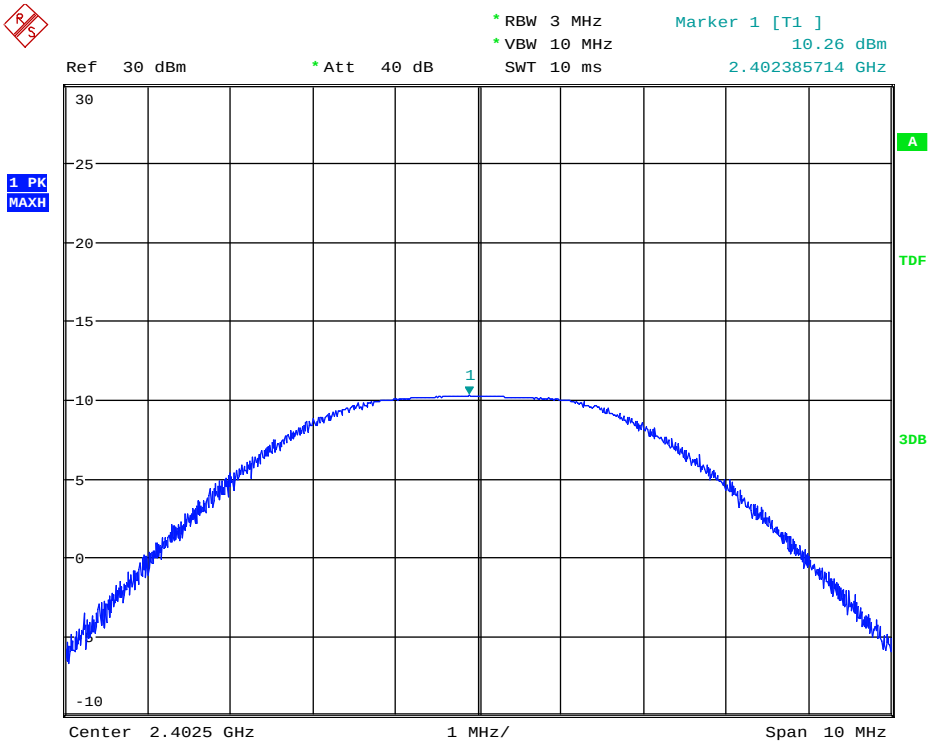


Plot 8: Conducted Power-RCM24G-MSK-250Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

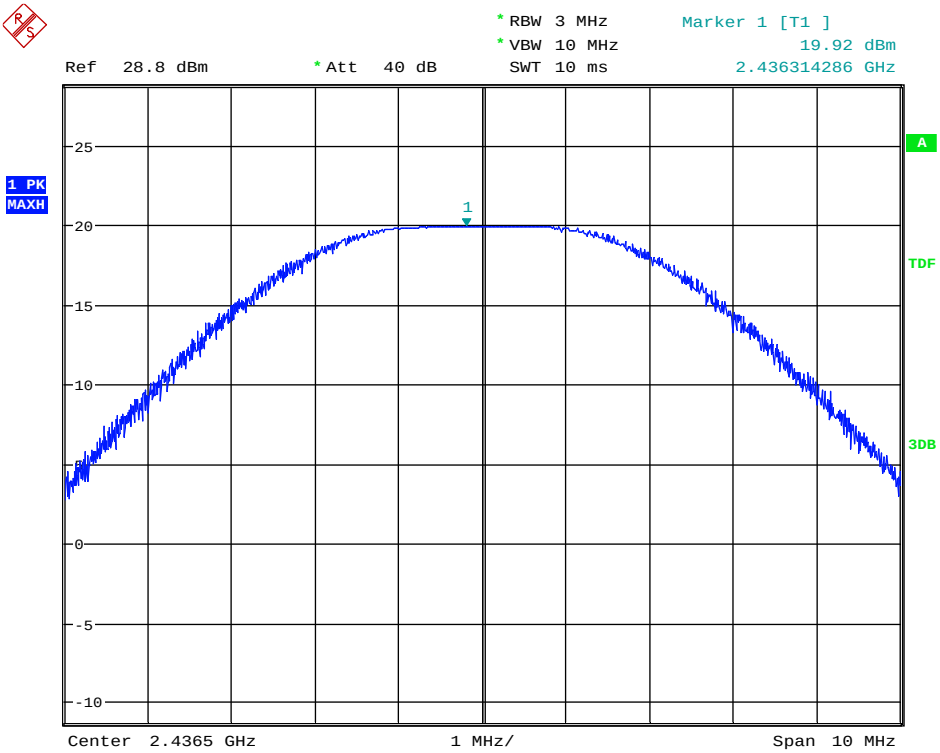


Plot 9: Conducted Power-RCM24G-MSK-250Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

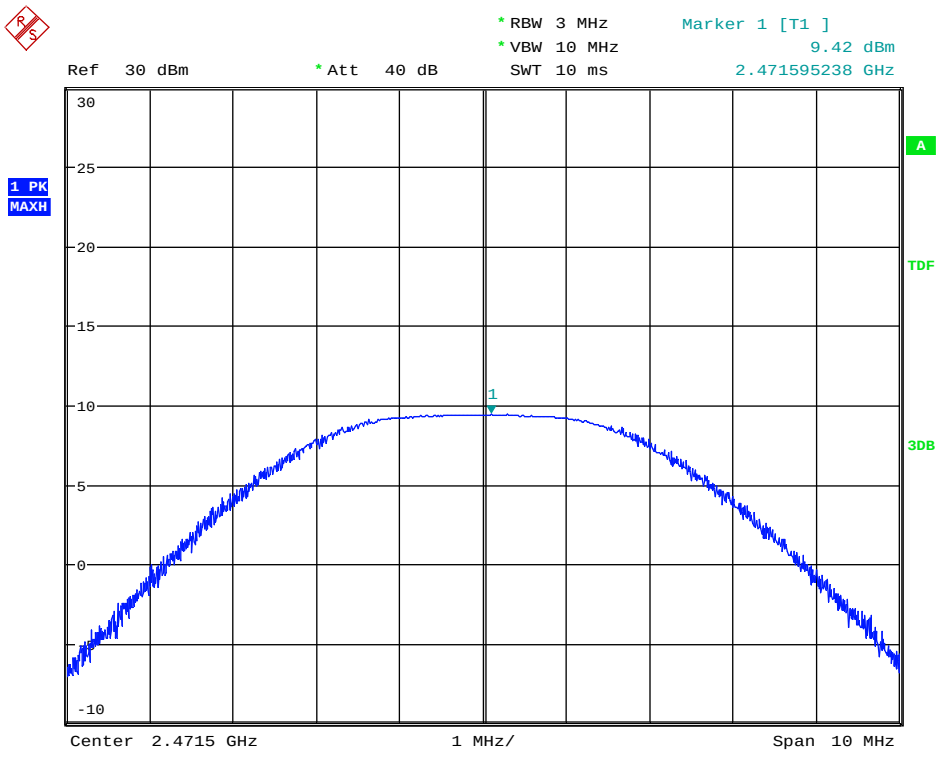
1.1.4. MSK-Data Rate 500Kbps



Plot 10: Conducted Power-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm



Plot 11: Conducted Power-RCM24G-MSK-500Kbps-Ch34 (2436.5 MHz)-PWR+21dBm



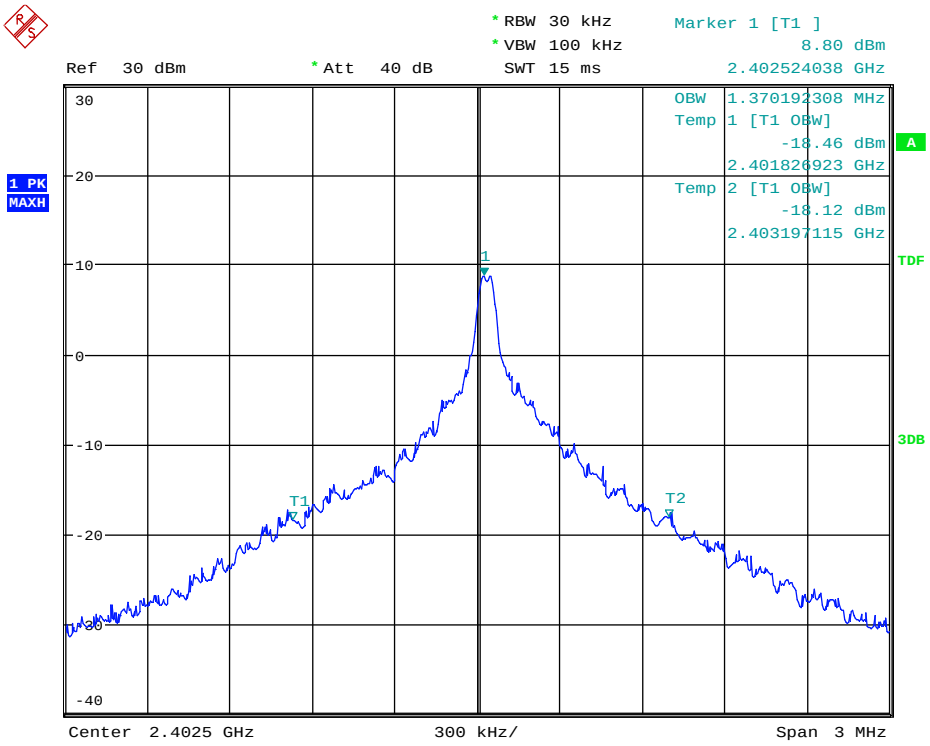
Plot 12: Conducted Power-RCM24G-MSK-500Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

Tabular Summary of Conducted Power Measurements

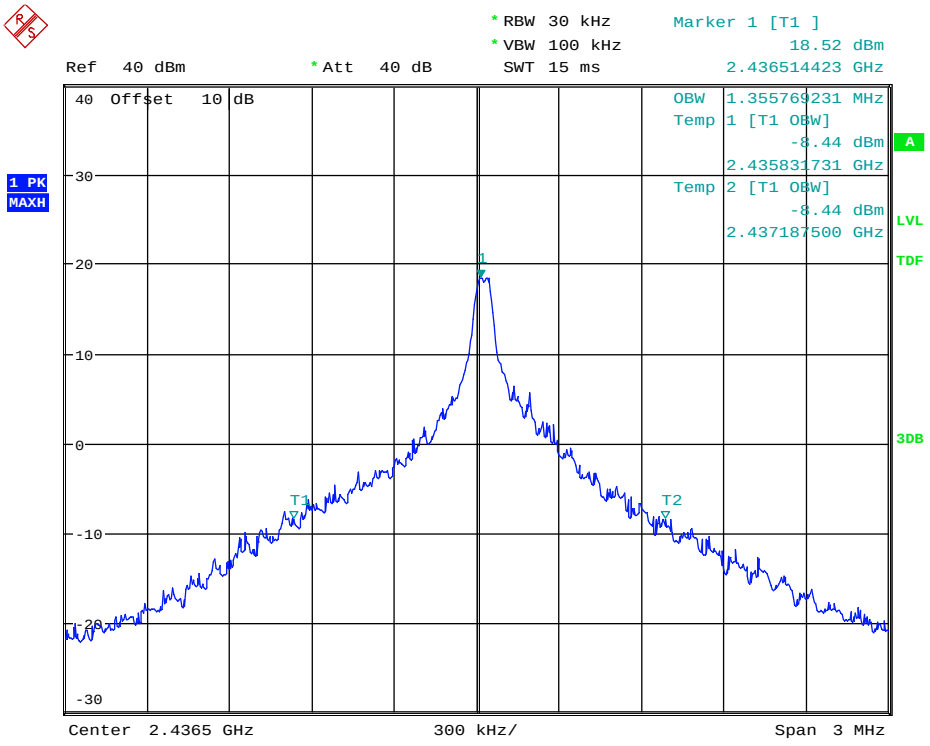
Conducted Peak Power Measurements for Proprietary 2.4GHz FHSS (MSK) Modes				
Bluetooth FHSS (Mode)	**Modulation (Data Rate)**	**Channel No. (Channel Frequency)**	**Conducted Peak Power (dBm)**	**Conducted Peak Power (mW)**
2402.5 -24710.5 MHz (70 Channels FHSS Mode)	MSK (50 Kbps)	Channel No. 0 (2402.5 MHz)	10,19	10,45
	MSK (50 Kbps)	Channel No. 34 (2436,5 MHz)	19,93	98,40
	MSK (50 Kbps)	Channel No.69 (2471,5 MHz)	9,32	8,55
	MSK (100 Kbps)	Channel No. 0 (2402.5 MHz)	10,20	10,47
	MSK (100 Kbps)	Channel No. 34 (2436,5 MHz)	19,89	97,50
	MSK (100 Kbps)	Channel No.69 (2471,5 MHz)	9,39	8,69
	MSK (250 Kbps)	Channel No. 0 (2402.5 MHz)	10,19	10,45
	MSK (250 Kbps)	Channel No. 34 (2436,5 MHz)	19,78	95,06
	MSK (250 Kbps)	Channel No.69 (2471,5 MHz)	9,40	8,71
	MSK (500 Kbps)	Channel No. 0 (2402.5 MHz)	10,26	10,62
	MSK (500 Kbps)	Channel No. 34 (2436,5 MHz)	19,92	98,17
	MSK (500 Kbps)	Channel No.69 (2471,5 MHz)	9,42	8,75
FCC 15.247 Conducted Peak Power Limits			**20.97 dBm**	**125 mW**
RSS-247 Issue2 Limits				

1.2. 99% Occupied Bandwidth

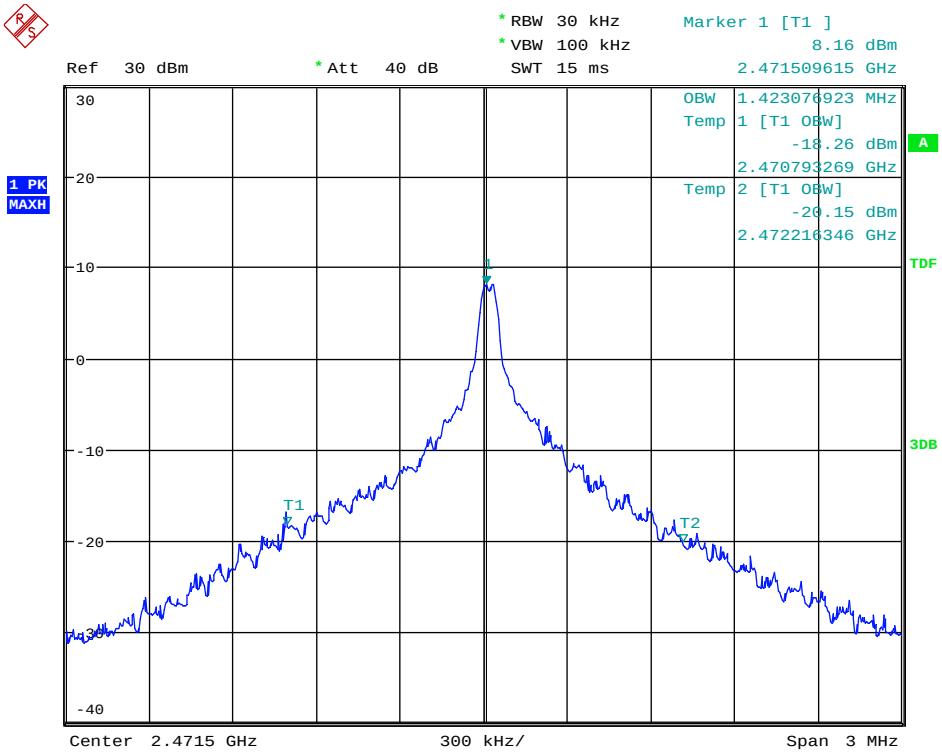
1.2.1. MSK-Data Rate 50Kbps



Plot 13: 99% OBW-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm

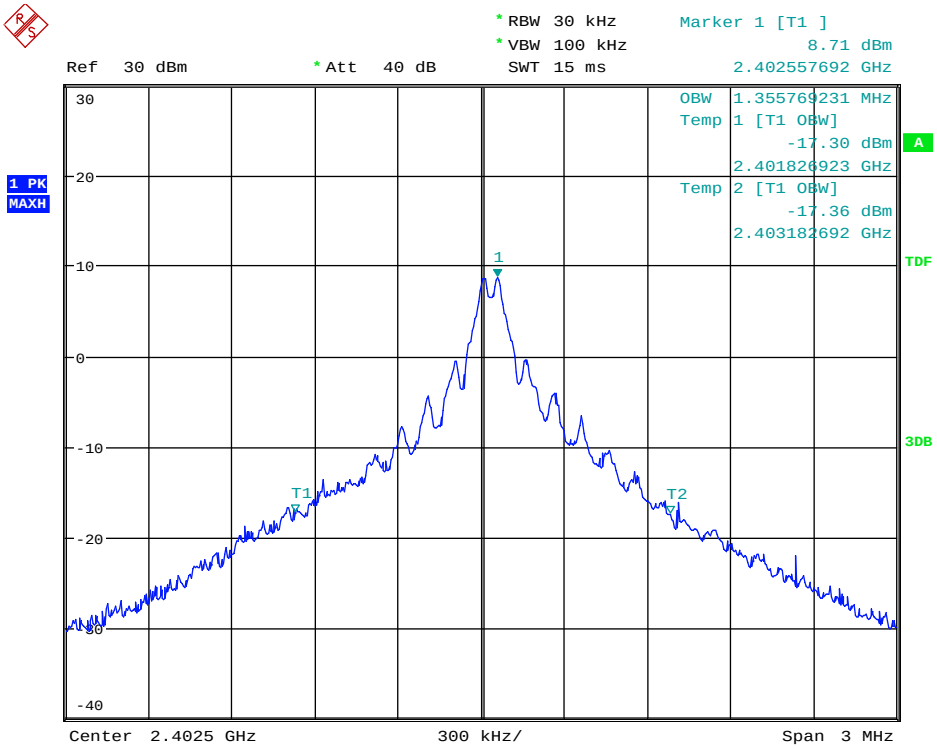


Plot 14: 99% OBW-RCM24G-MSK-50Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

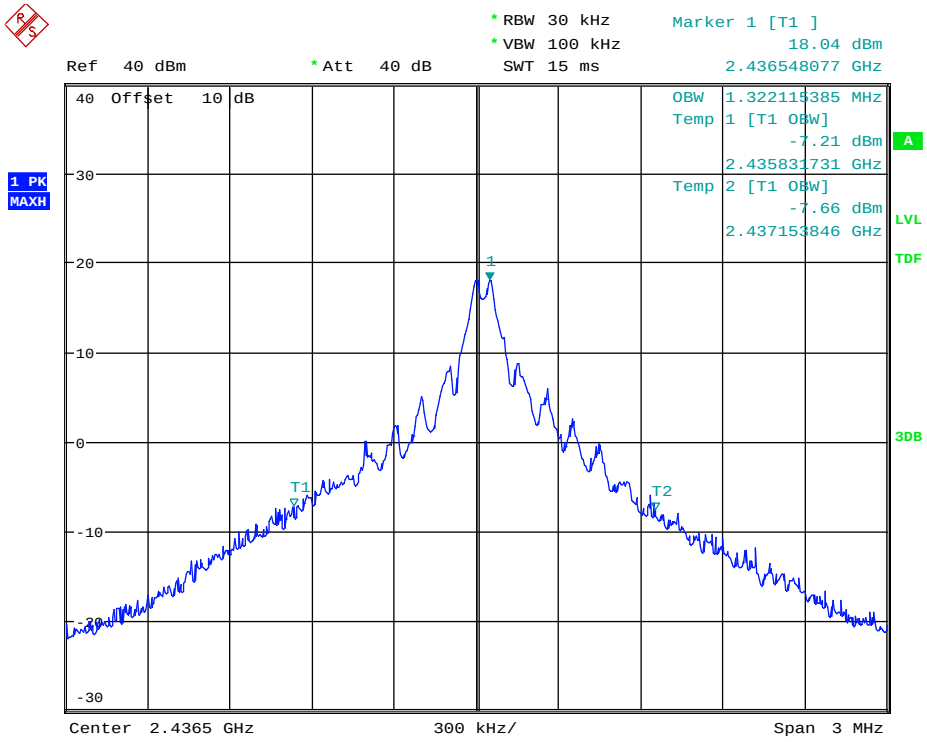


Plot 15: 99% OBW-RCM24G-MSK-50Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

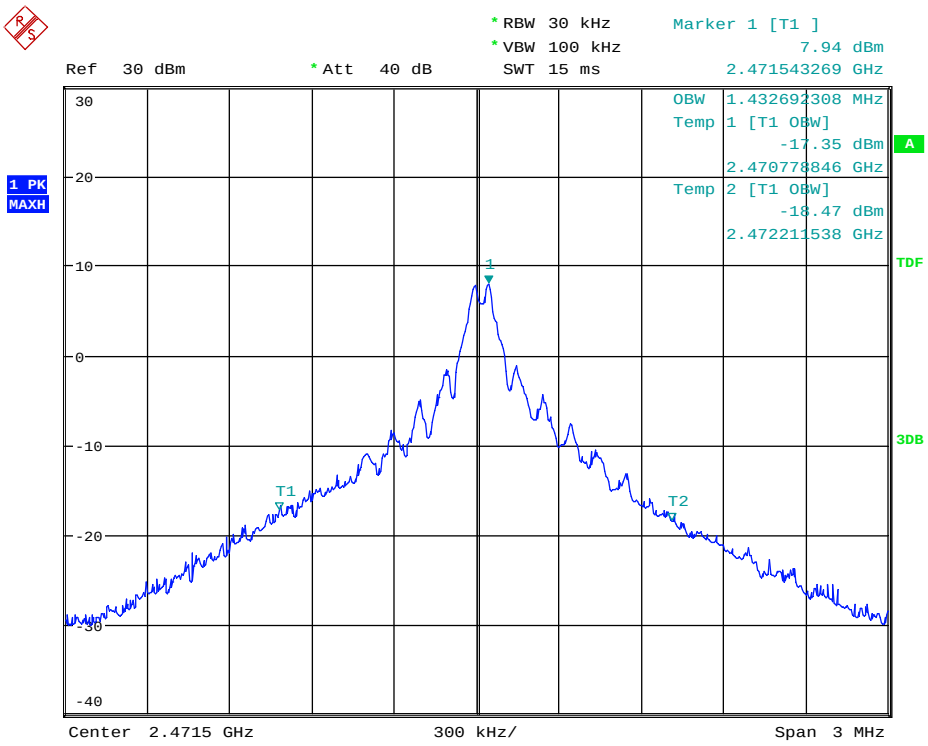
1.2.2. MSK-Data Rate 100Kbps



Plot 16: 99% OBW-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm

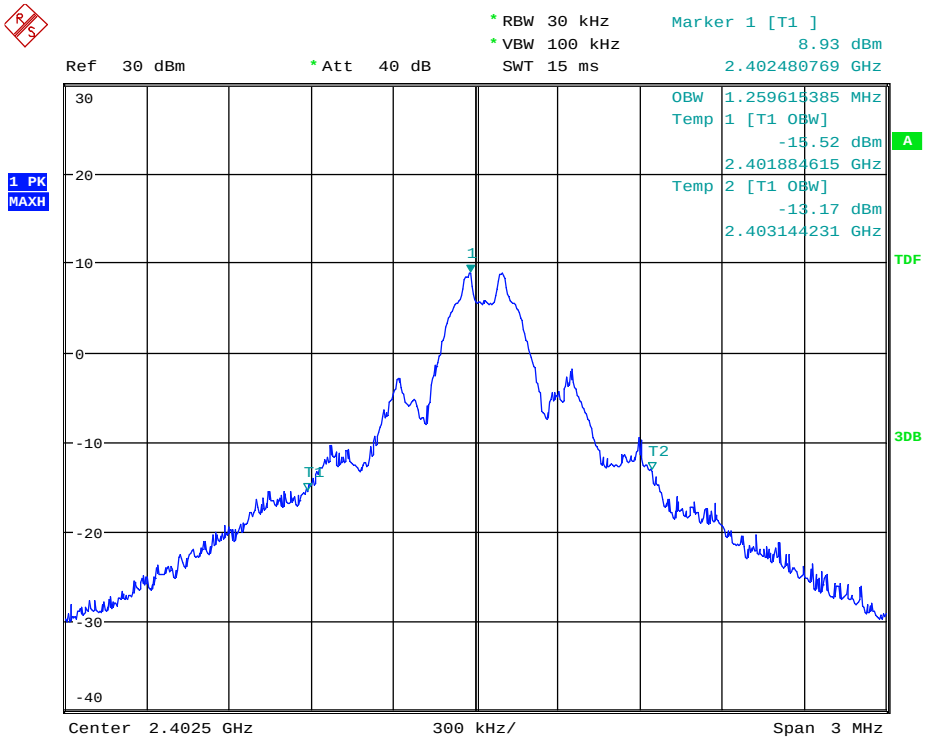


Plot 17: 99% OBW-RCM24G-MSK-100Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

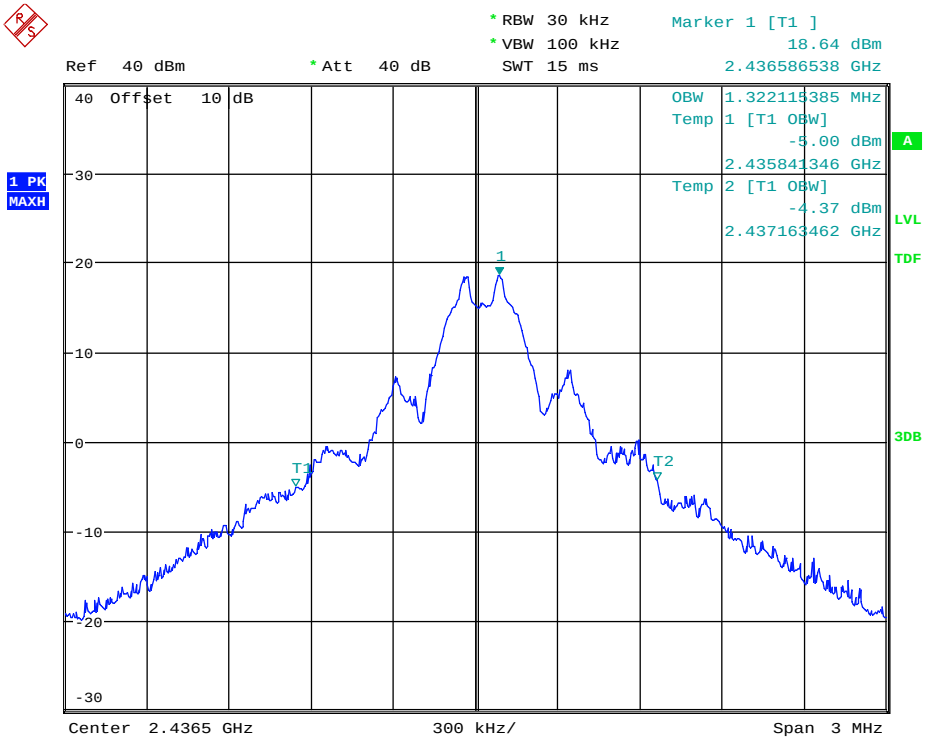


Plot 18: 99% OBW-RCM24G-MSK-100Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

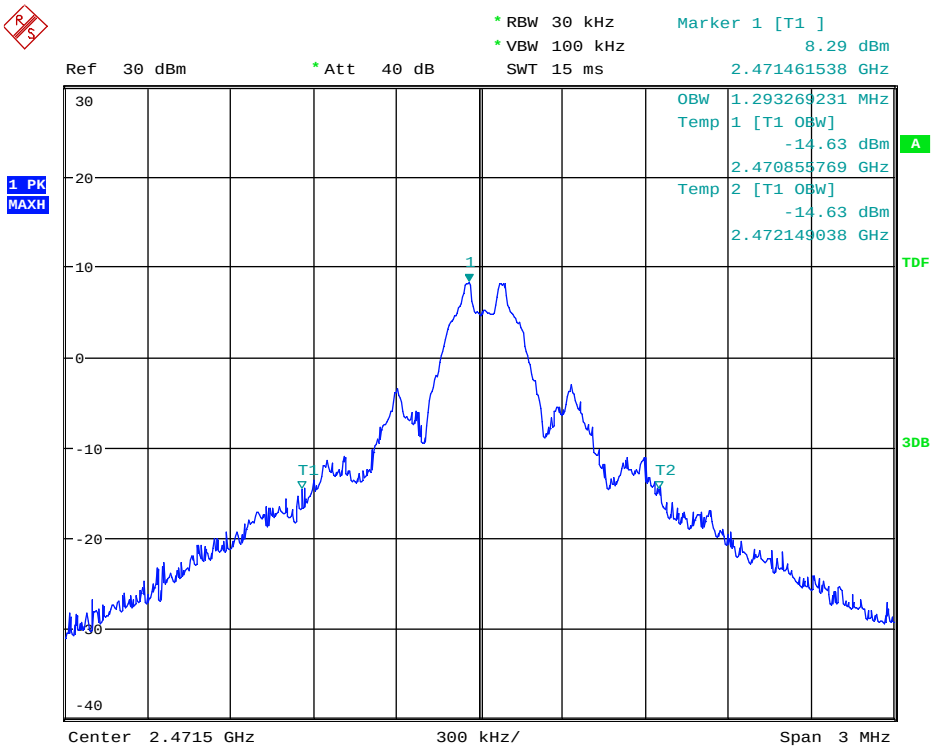
1.2.3. MSK-Data Rate 250Kbps



Plot 19: 99% OBW-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm

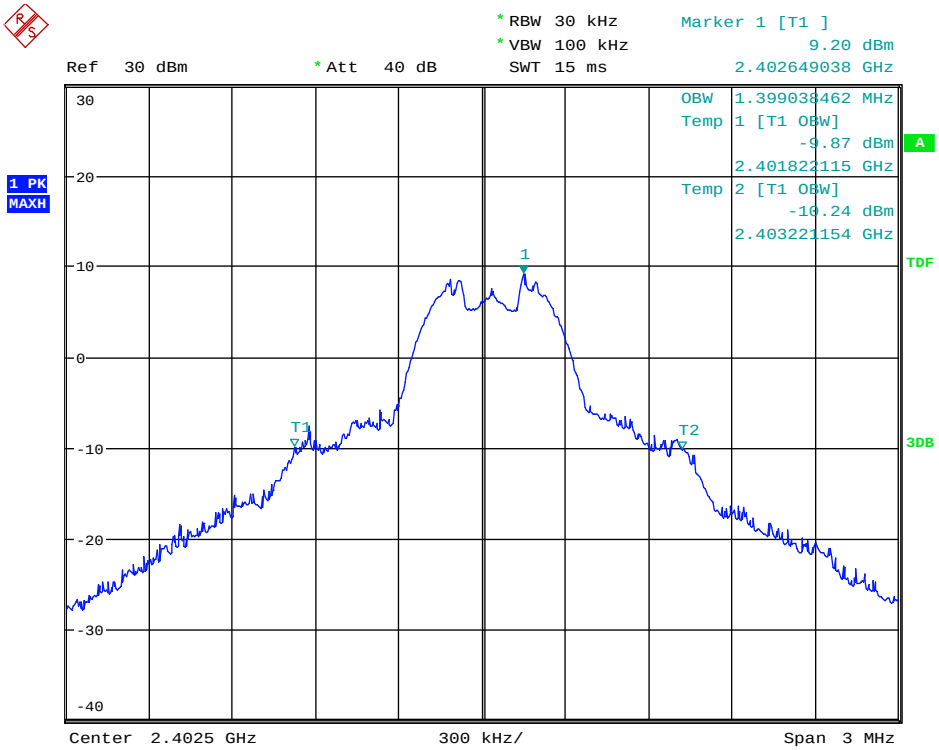


Plot 20: 99% OBW-RCM24G-MSK-250Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

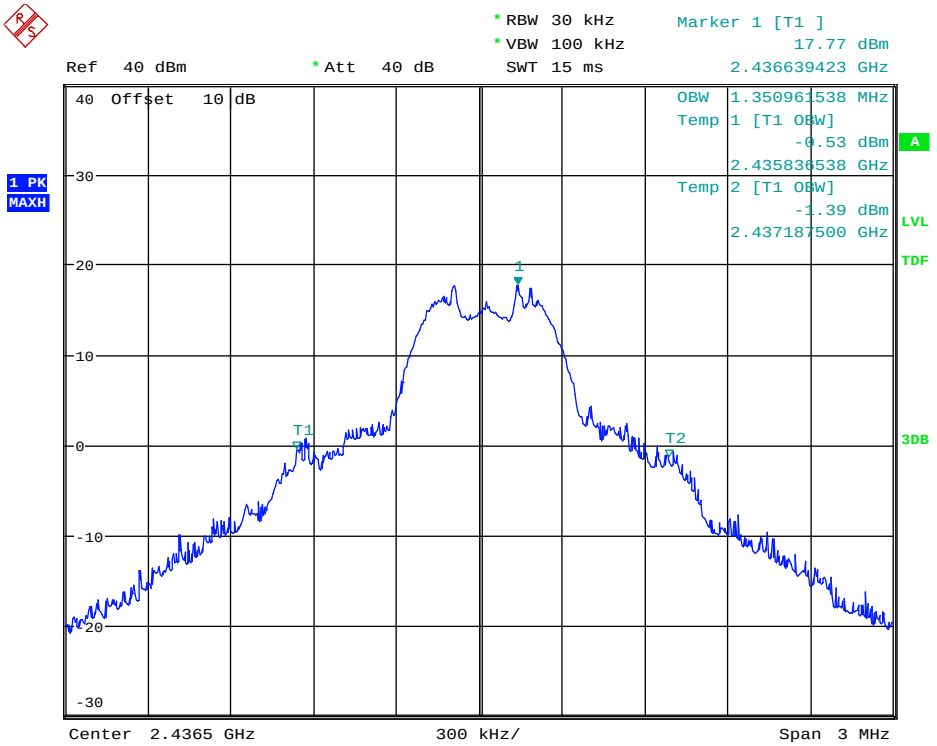


Plot 21: 99% OBW-RCM24G-MSK-250Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

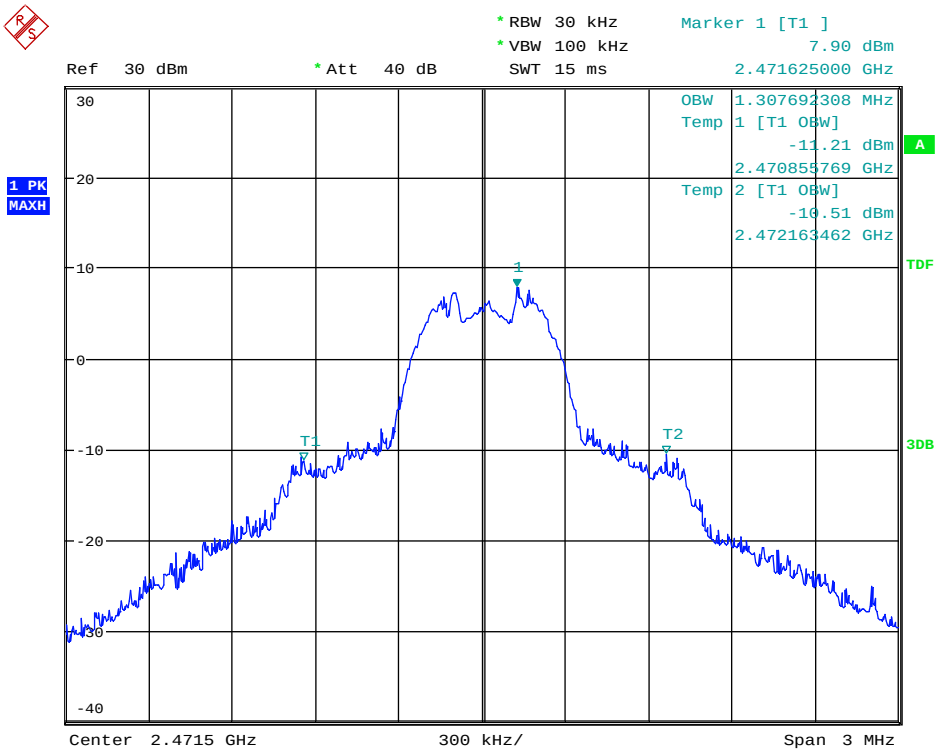
1.2.4. MSK-Data Rate 500Kbps



Plot 22: 99% OBW-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm



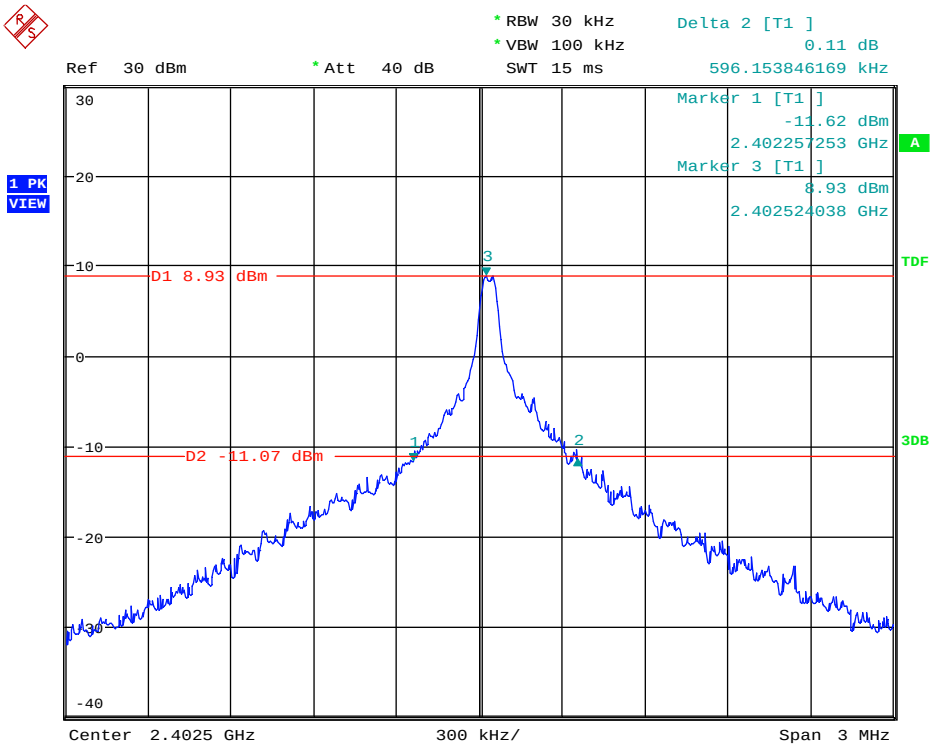
Plot 23: 99% OBW-RCM24G-MSK-500Kbps-Ch34 (2436.5 MHz)-PWR+21dBm



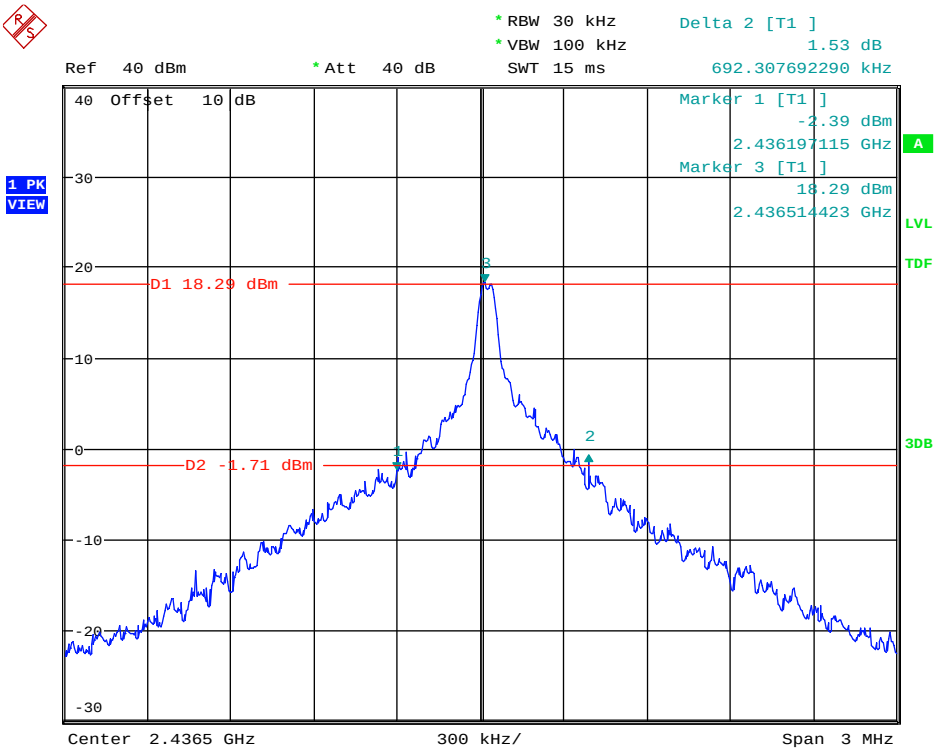
Plot 24: 99% OBW-RCM24G-MSK-500Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

1.3. 20 dB Bandwidth

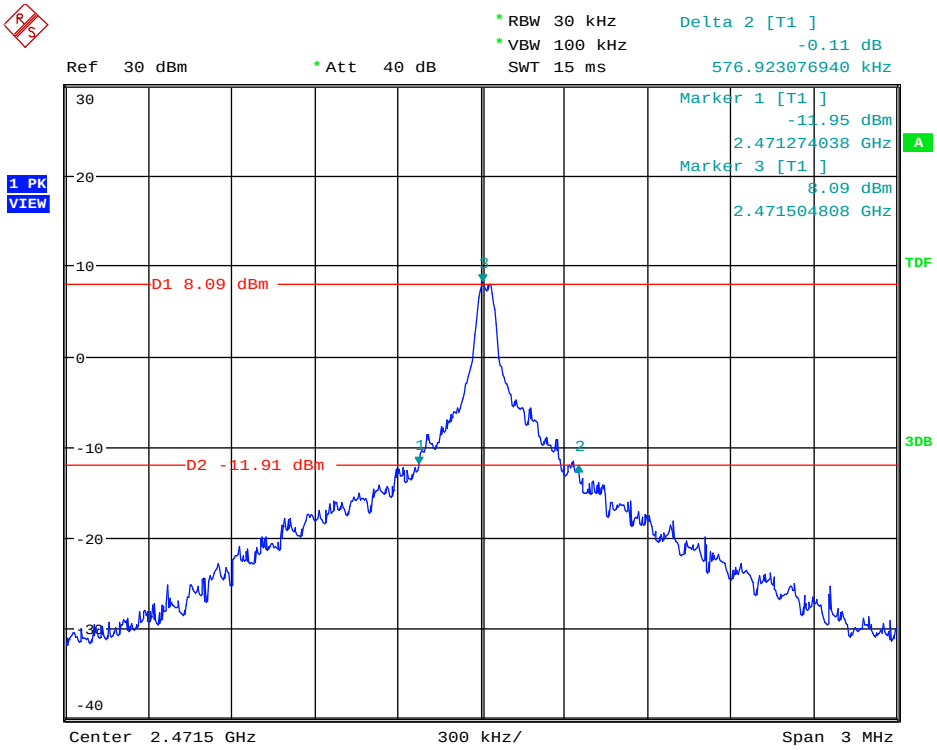
1.3.1. MSK-Data Rate 50Kbps



Plot 25: 20dB B.W.-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm

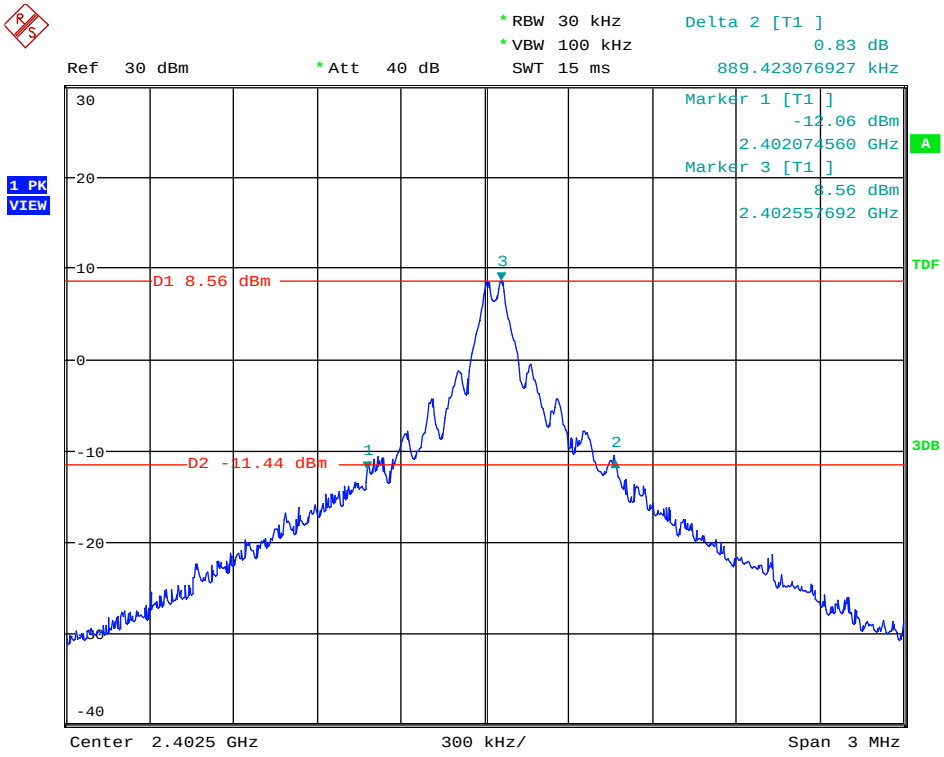


Plot 26: 20dB B.W.-RCM24G-MSK-50Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

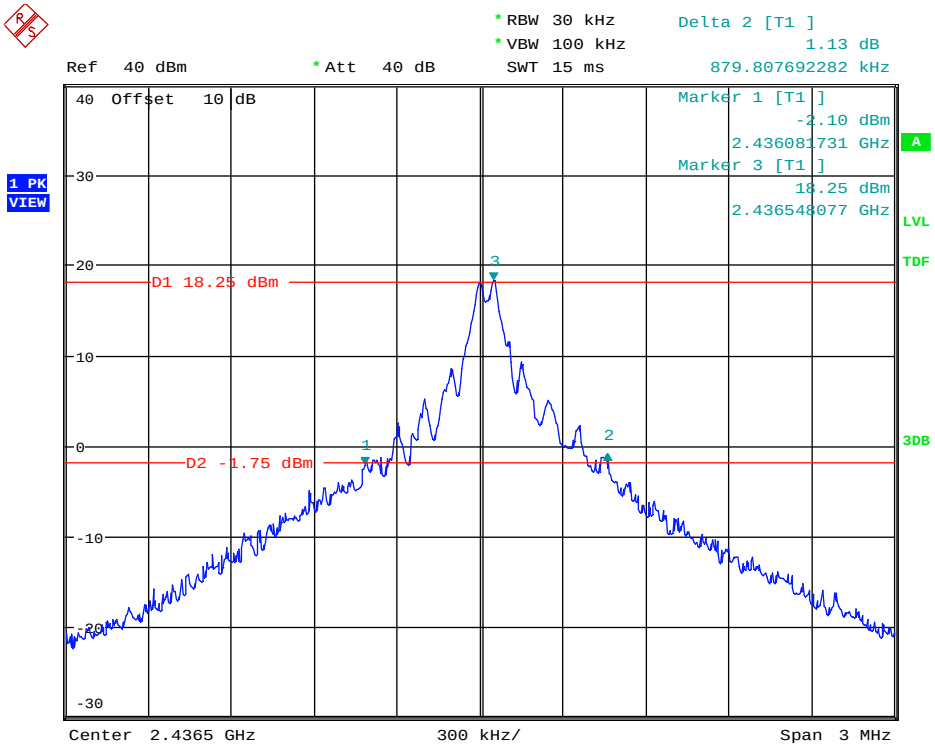


Plot 27: 20dB B.W.-RCM24G-MSK-50Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

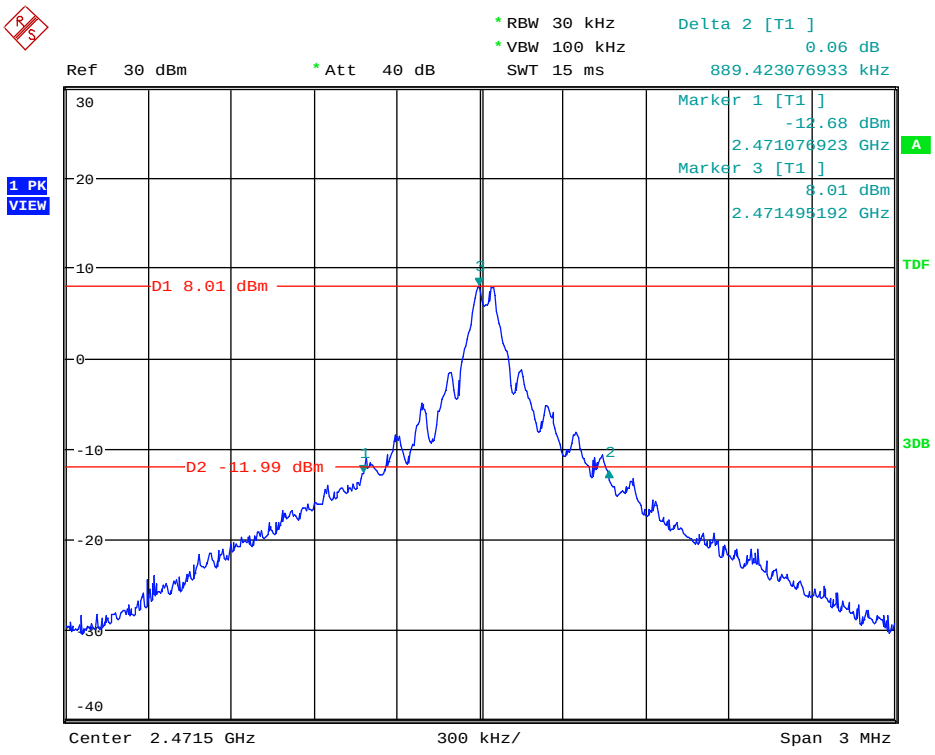
1.3.2. MSK-Data Rate 100Kbps



Plot 28: 20dB B.W.-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm

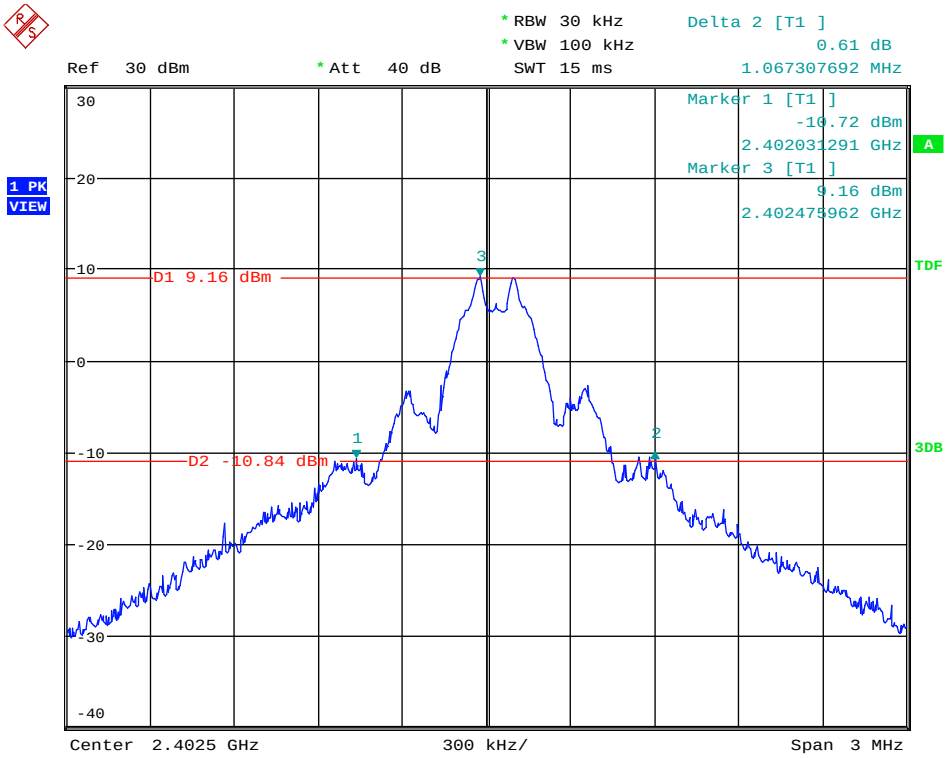


Plot 29: 20dB B.W.-RCM24G-MSK-100Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

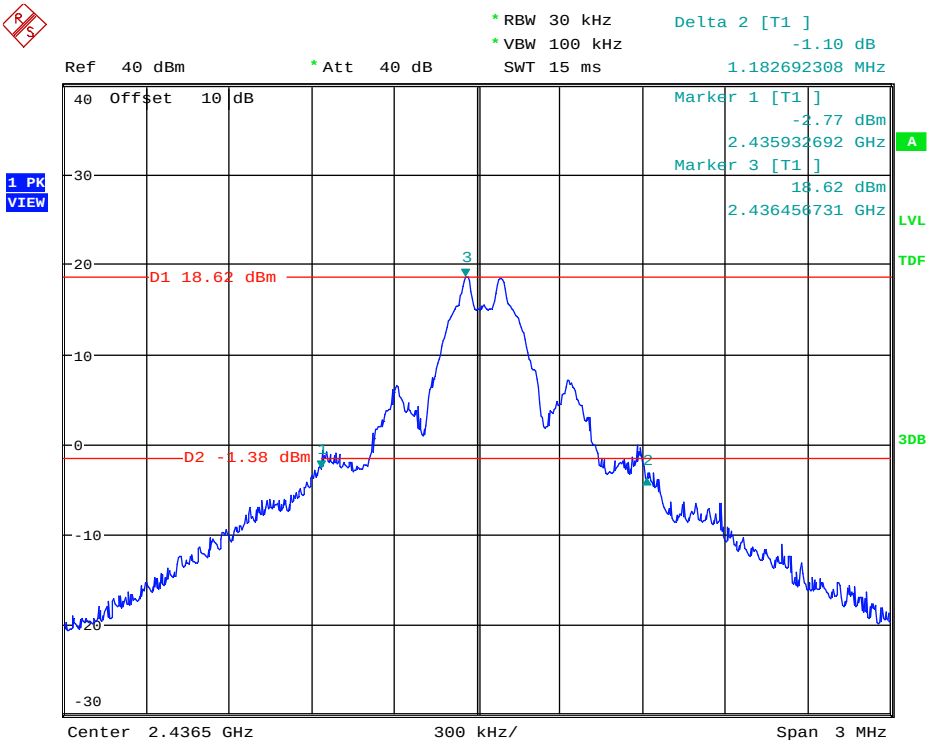


Plot 30: 20dB B.W.-RCM24G-MSK-100Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

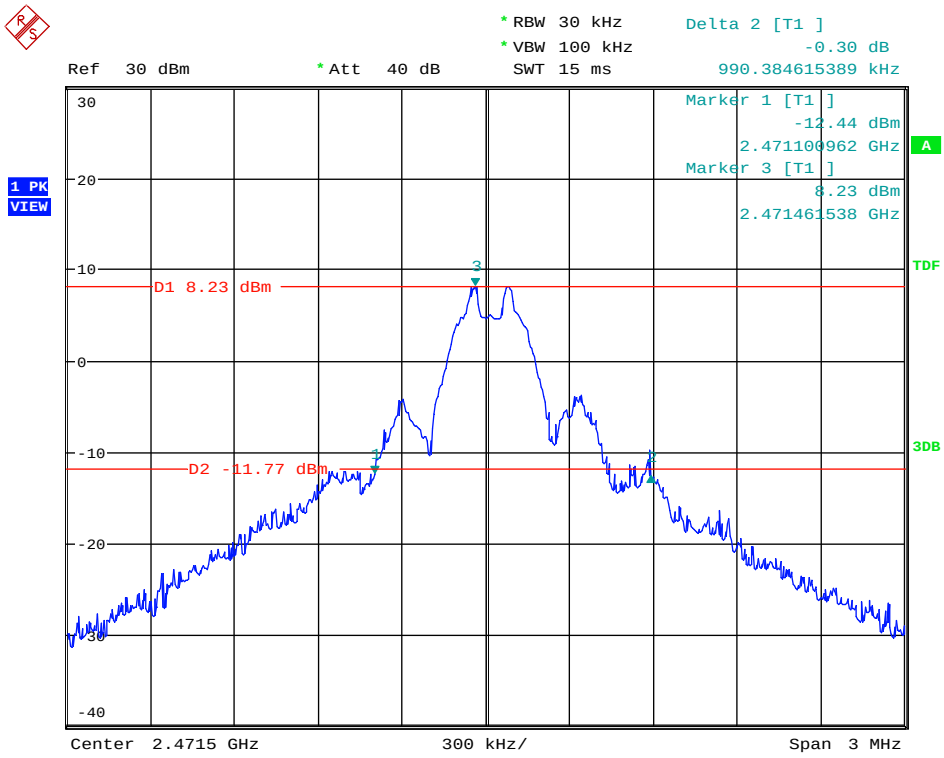
1.3.3. MSK-Data Rate 250Kbps



Plot 31: 20dB B.W.-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm

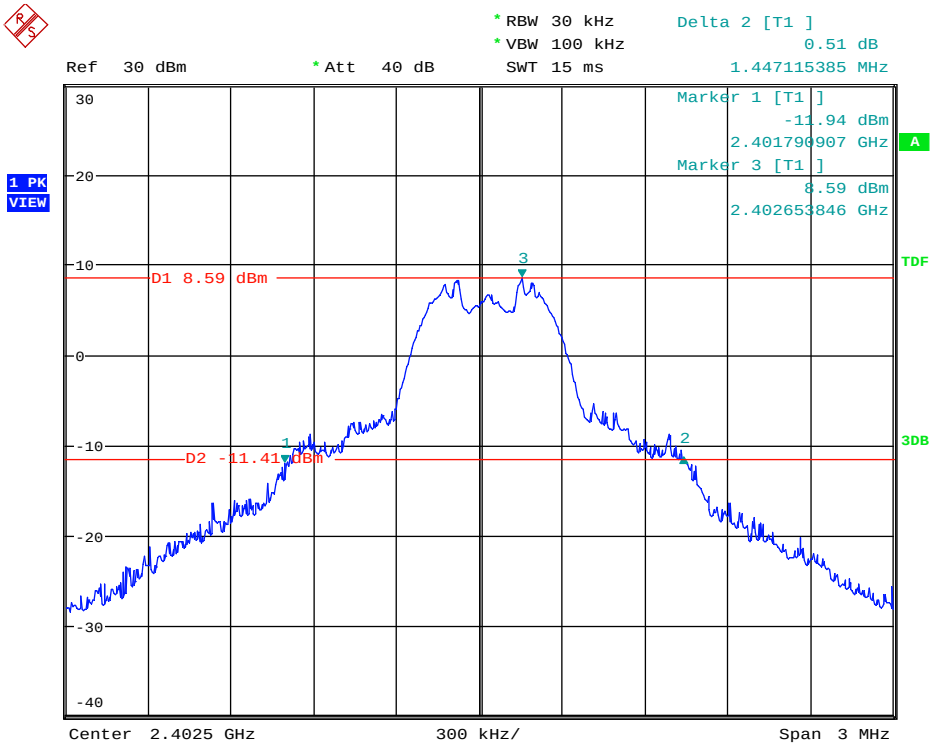


Plot 32: 20dB B.W.-RCM24G-MSK-250Kbps -Ch34 (2436.5 MHz)-PWR+21dBm

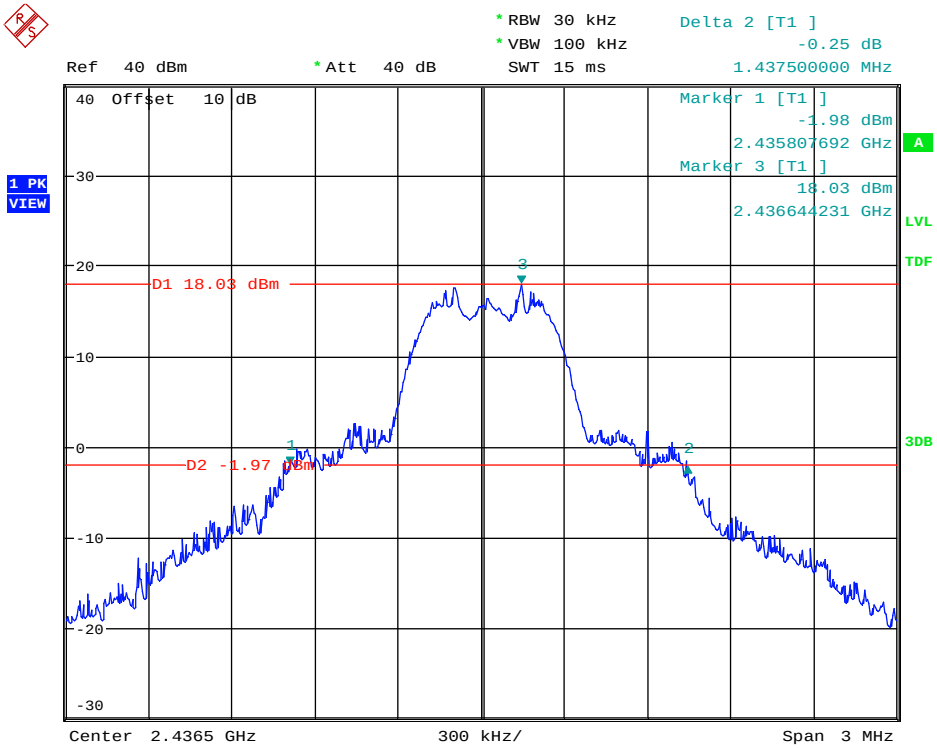


Plot 33: 20dB B.W.-RCM24G-MSK-250Kbps -Ch69 (2471.5 MHz)-PWR+12 dBm

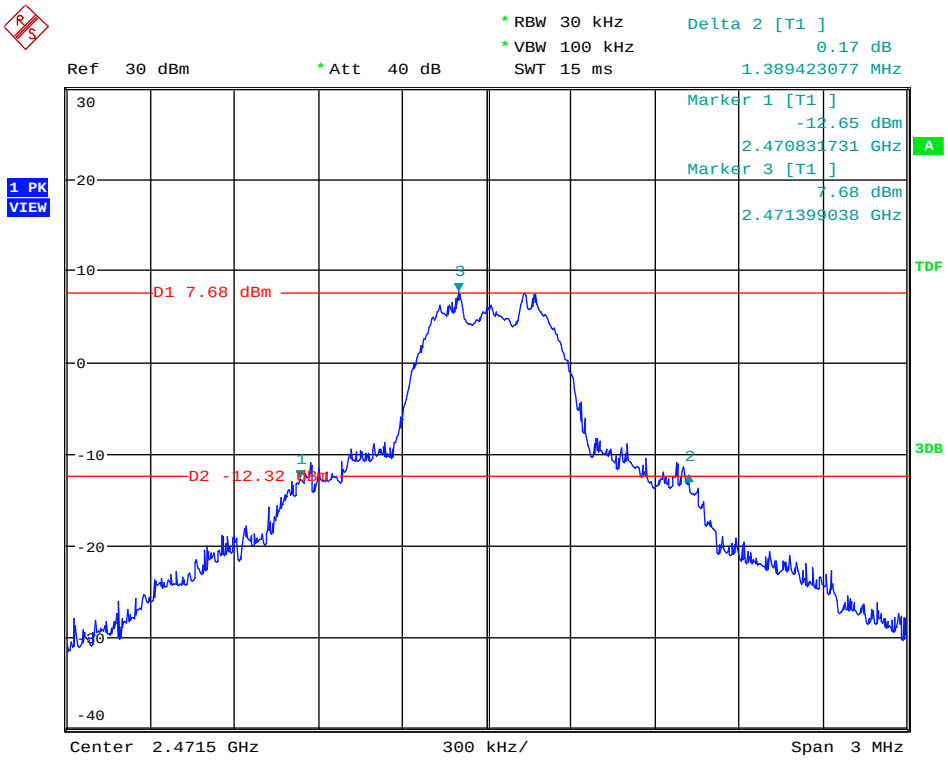
1.3.4. MSK-Data Rate 500Kbps



Plot 34: 20dB B.W.-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm



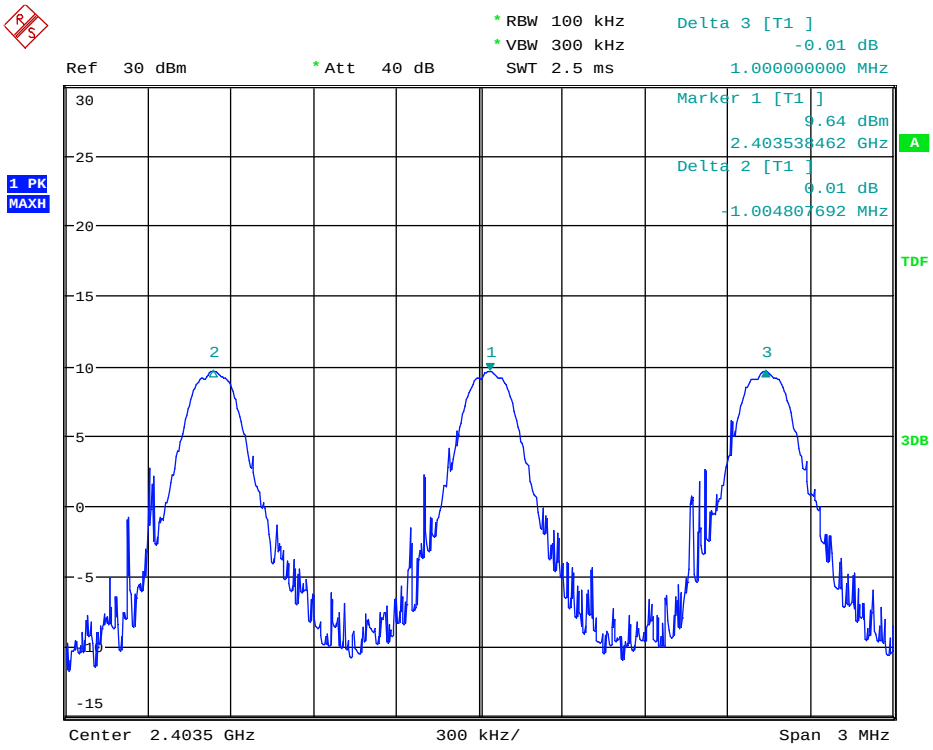
Plot 35: 20dB B.W.-RCM24G-MSK-500Kbps-Ch34 (2436.5 MHz)-PWR+21dBm



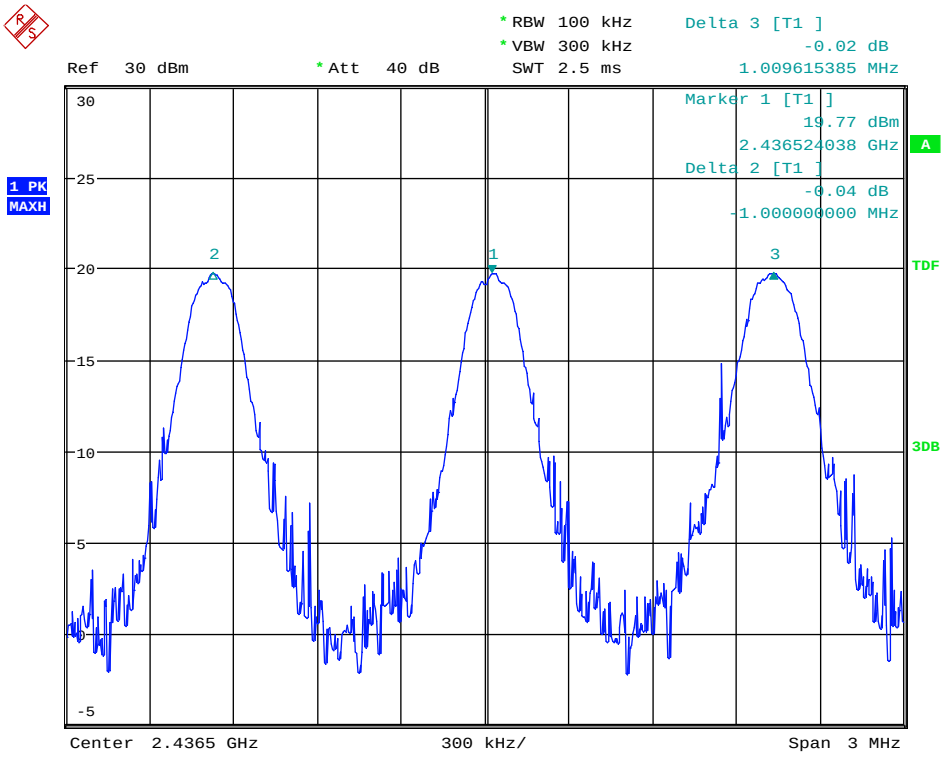
Plot 36: 20dB B.W.-RCM24G-MSK-500Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

1.4. Carrier Frequency Separations (CFS)

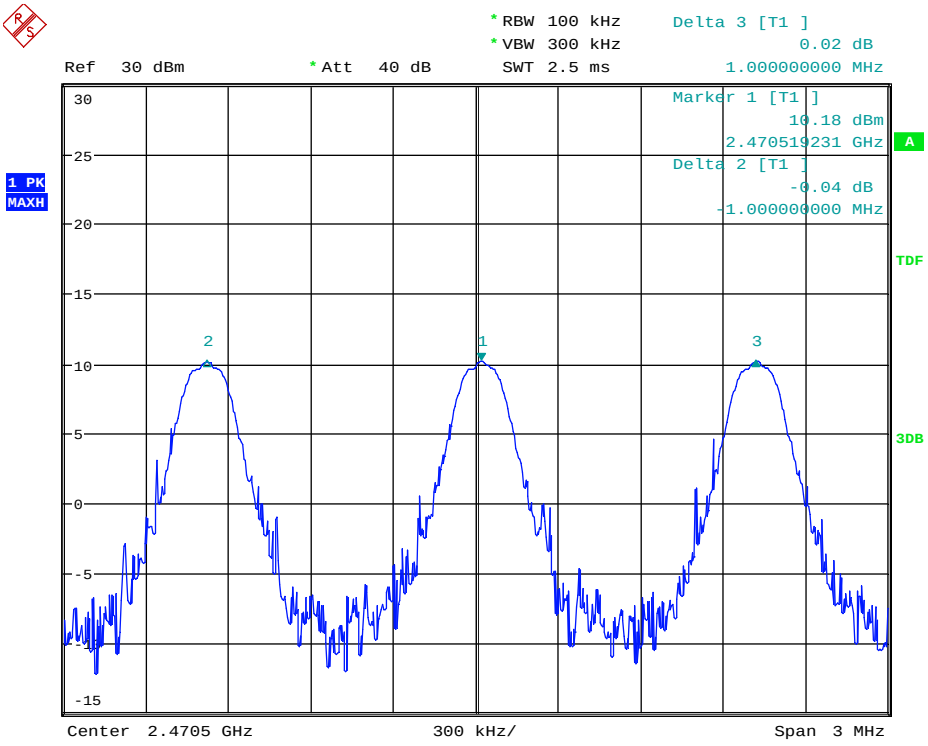
1.4.1. MSK-Data Rate 50Kbps



Plot 37: CFS-RCM24G-MSK-50Kbps-Ch0- Ch1- Ch2-PWR+12dBm

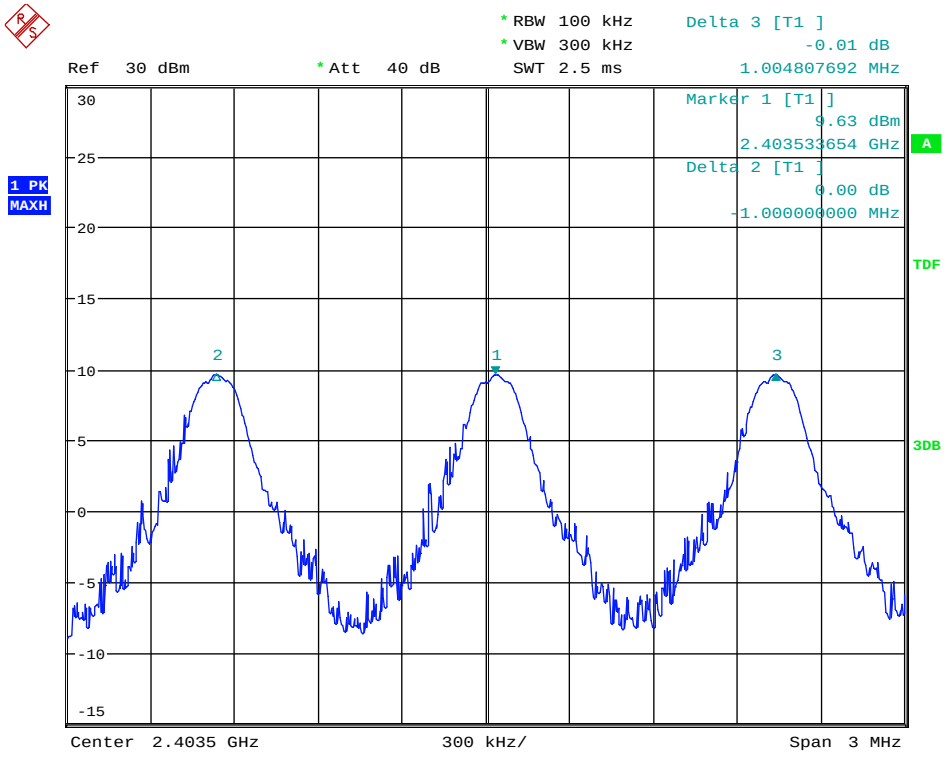


Plot 38: CFS-RCM24G-MSK-50Kbps-Ch33-Ch34-Ch35-PWR+21dBm

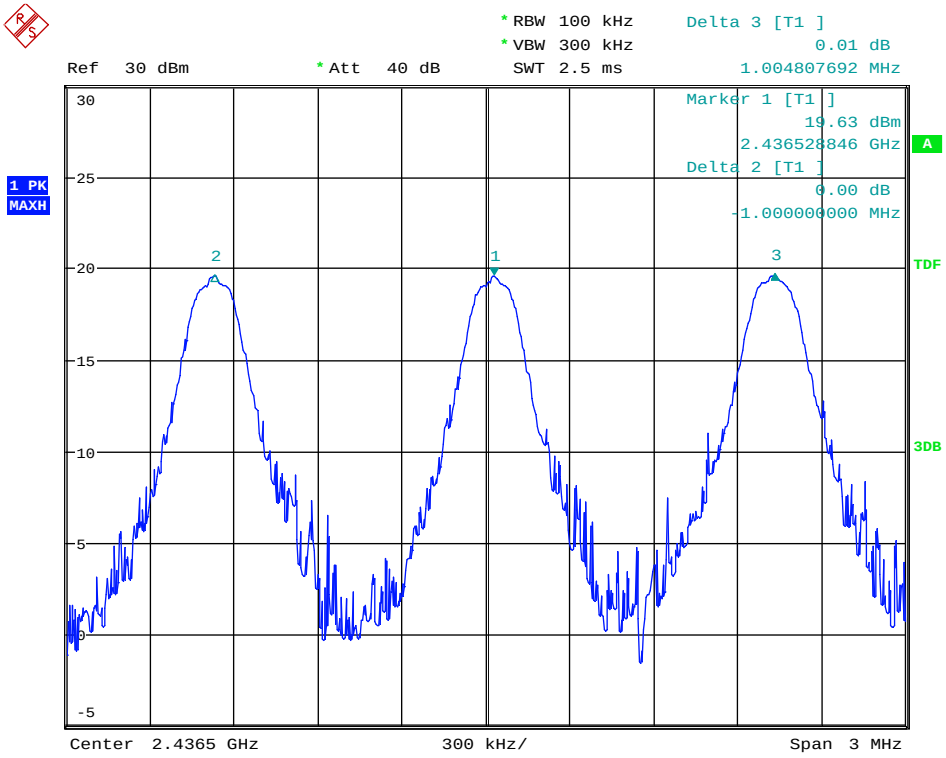


Plot 39: CFS-RCM24G-MSK-50Kbps-Ch67-Ch68-Ch69-PWR+12 dBm

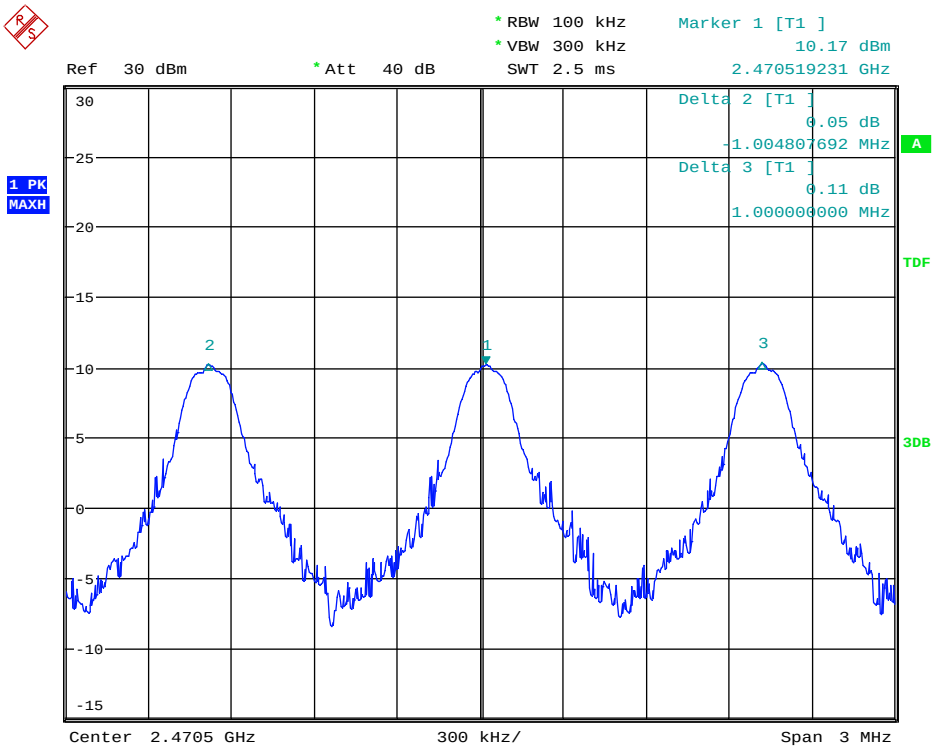
1.4.2. MSK-Data Rate 100Kbps



Plot 40: CFS-RCM24G-MSK-100Kbps-Ch0-Ch1-Ch2-PWR+12dBm

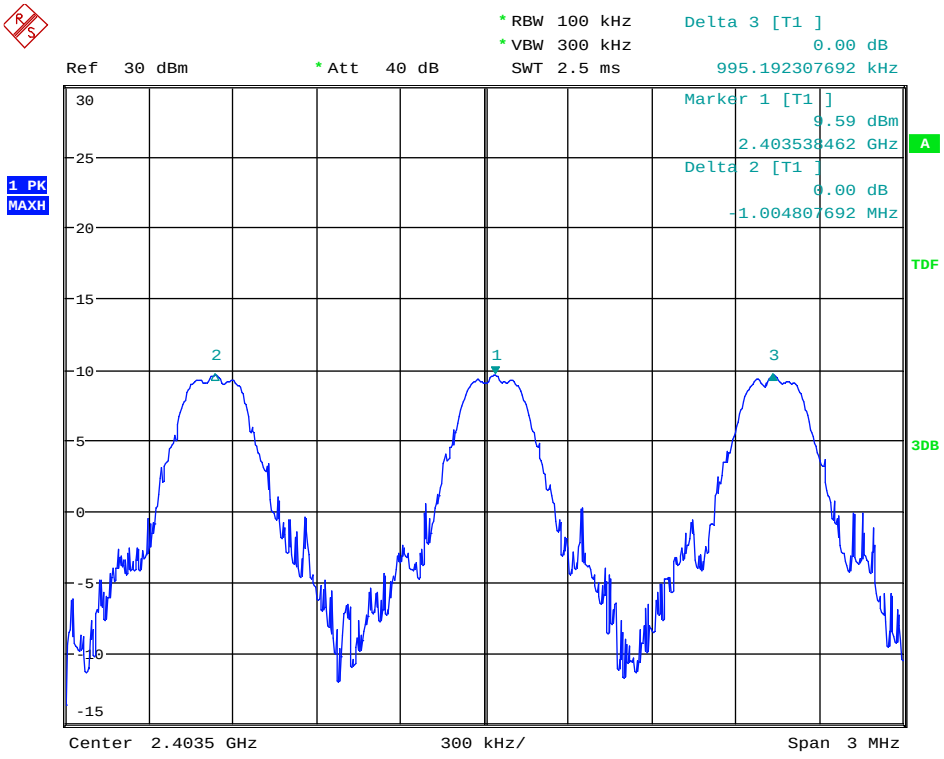


Plot 41: CFS-RCM24G-MSK-100Kbps-Ch33-Ch34-Ch35-PWR+21dBm

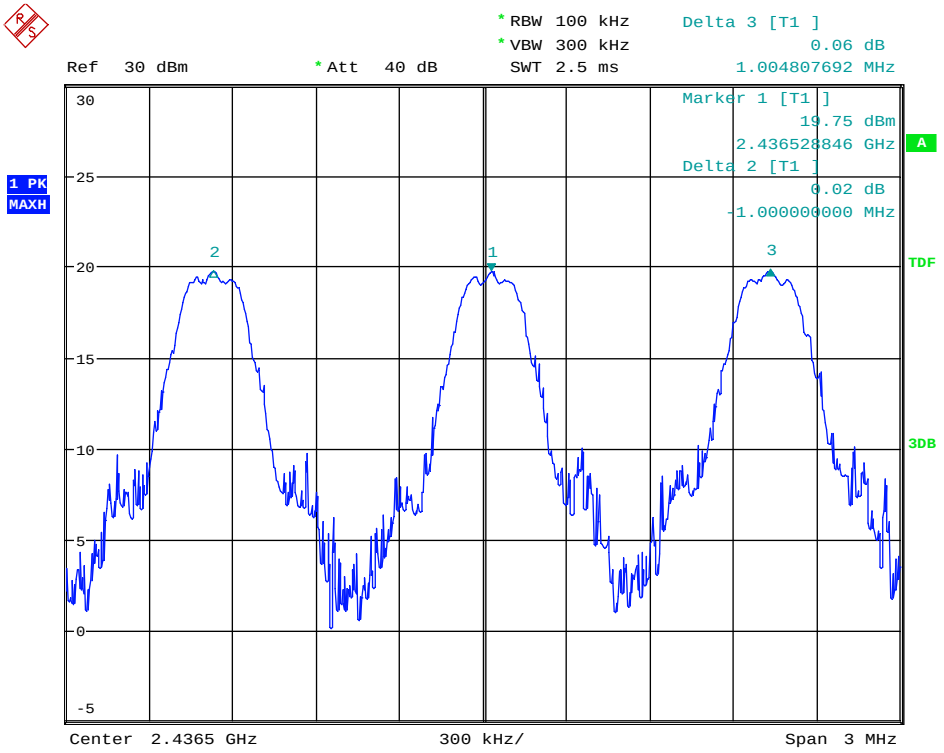


Plot 42: CFS-RCM24G-MSK-100Kbps-Ch67-Ch68-Ch69-PWR+12 dBm

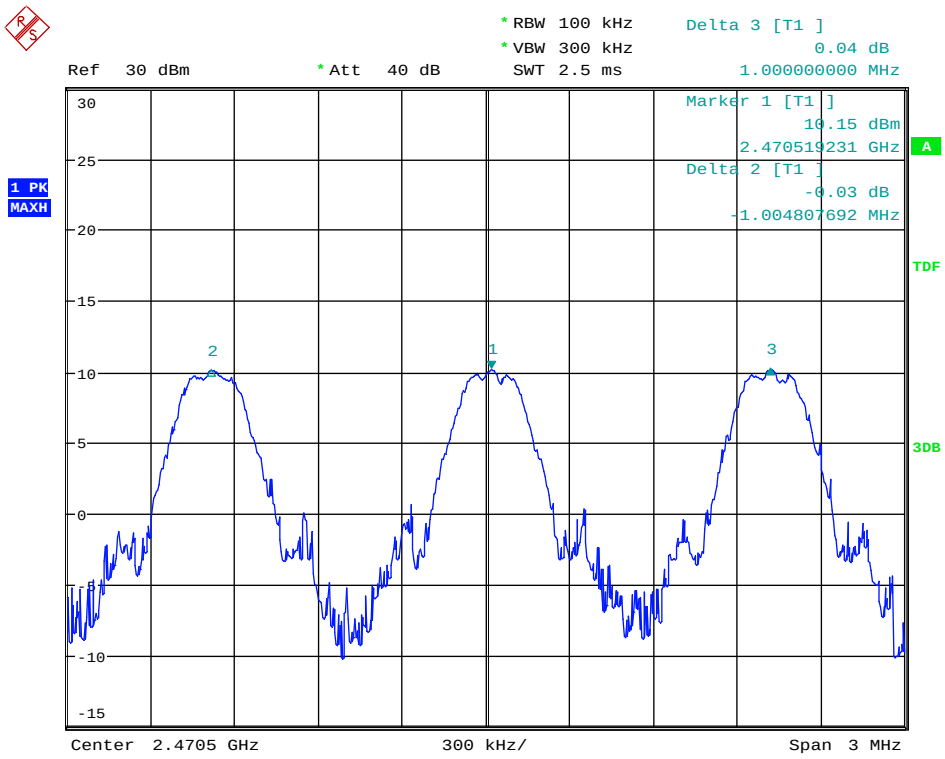
1.4.3. MSK-Data Rate 250Kbps



Plot 43: CFS-RCM24G-MSK-250Kbps -Ch0-Ch1-Ch2-PWR+12dBm

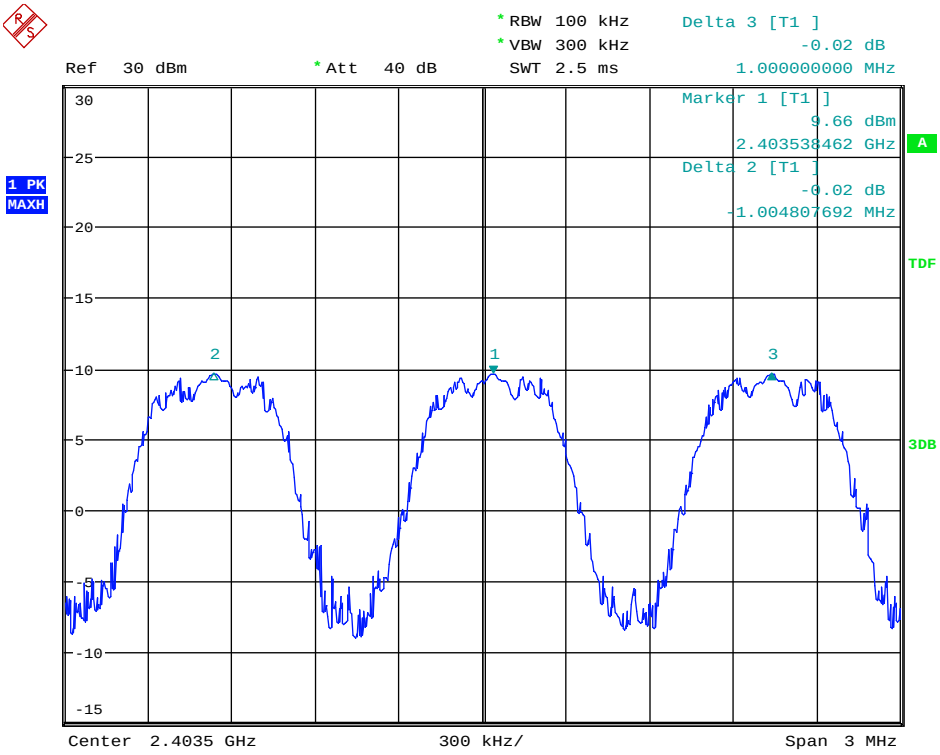


Plot 44: CFS-RCM24G-MSK-250Kbps –Ch33-Ch34-Ch35-PWR+21dBm

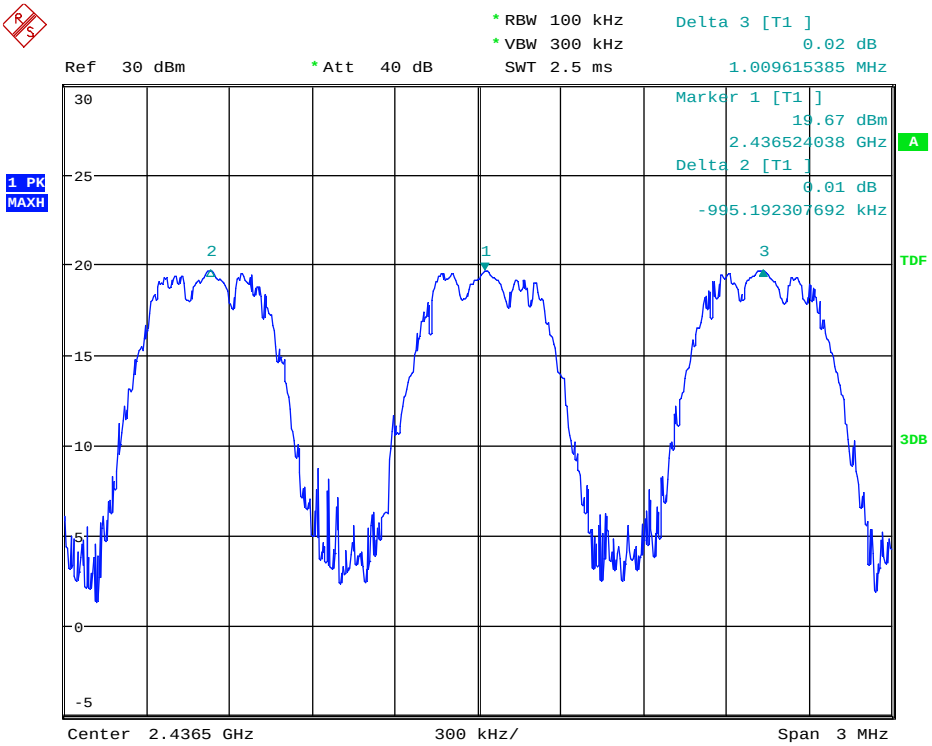


Plot 45: CFS-RCM24G-MSK-250Kbps –Ch67-Ch68-Ch69-PWR+12 dBm

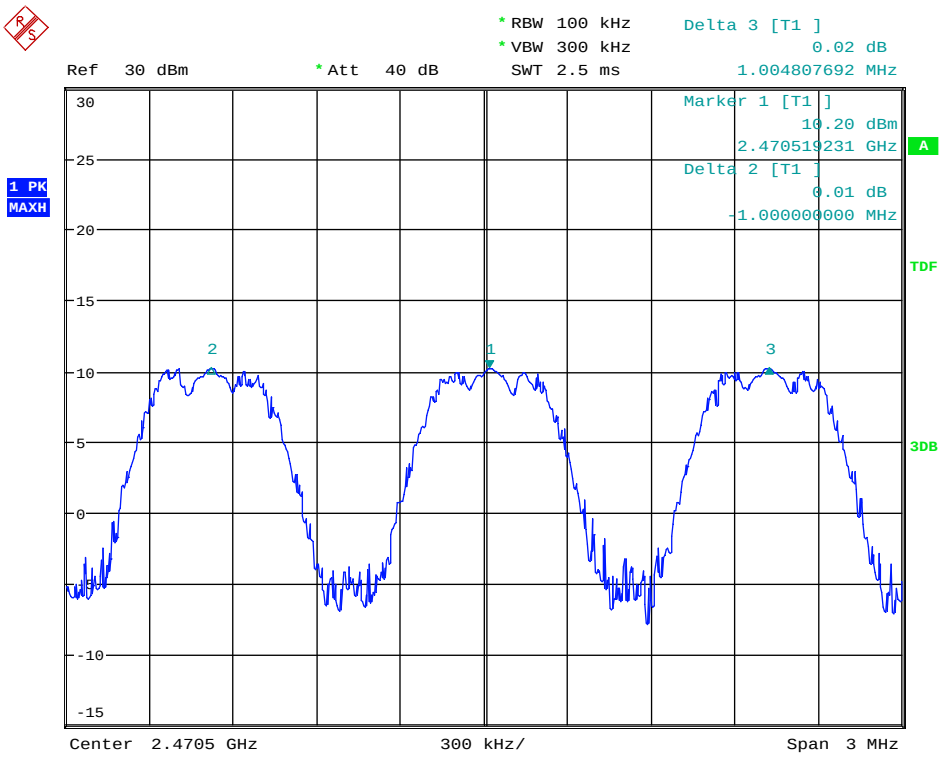
1.4.4. MSK-Data Rate 500Kbps



Plot 46: CFS-RCM24G-MSK-500Kbps-Ch0-Ch1-Ch2-PWR+12dBm



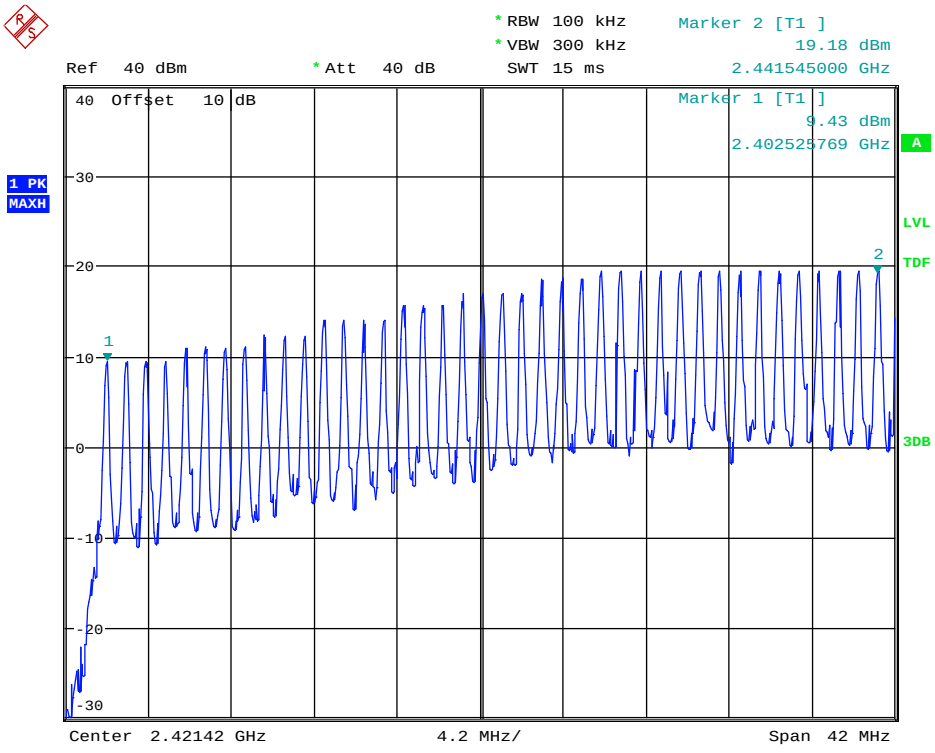
Plot 47: CFS-RCM24G-MSK-500Kbps-Ch33-Ch34-Ch35-PWR+21dBm



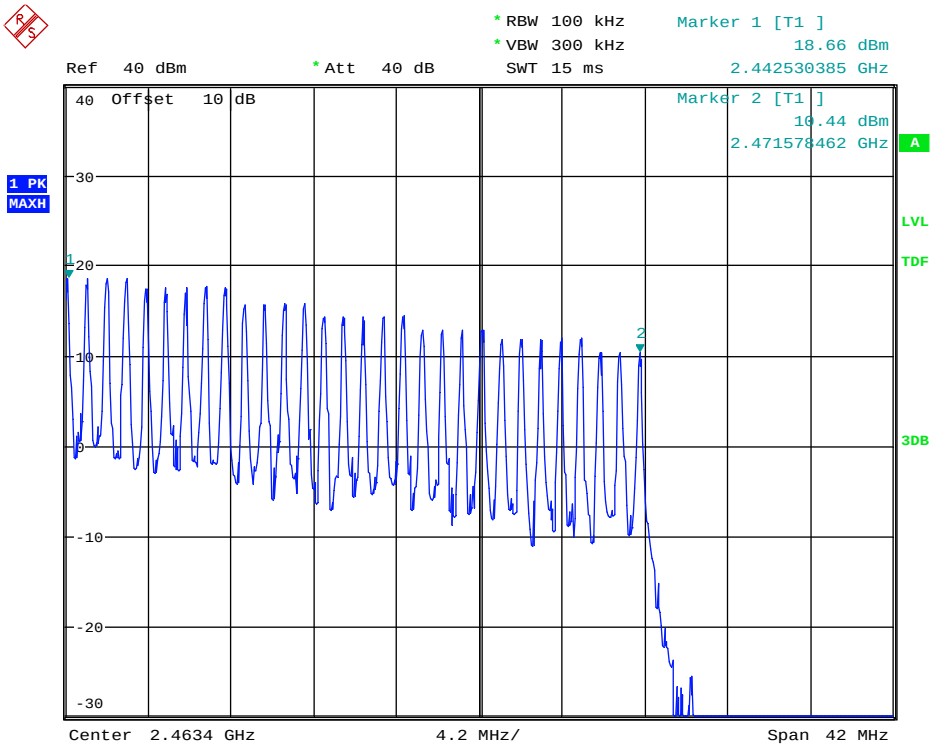
Plot 48: CFS-RCM24G-MSK-500Kbps-Ch67-Ch68-Ch69-PWR+12 dBm

1.5. Number of Hopping Frequencies (N-Hopping)

1.5.1. MSK-Data Rate 50Kbps

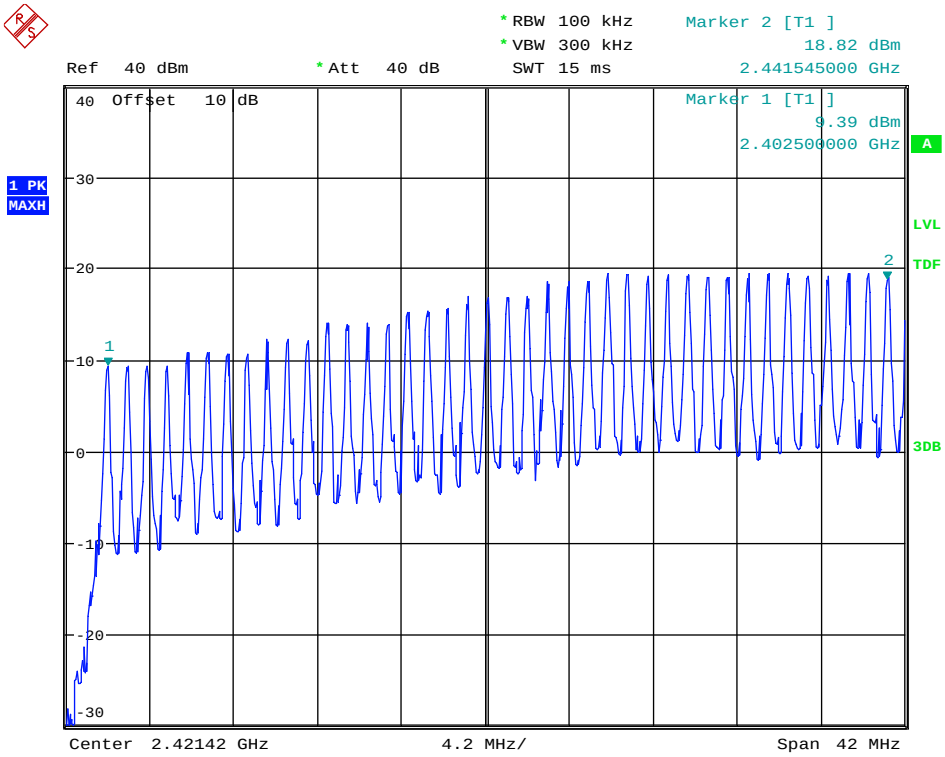


Plot 49: N-Hopping-RCM24G-MSK-50Kbps-2.4 GHz - Lower Spectrum

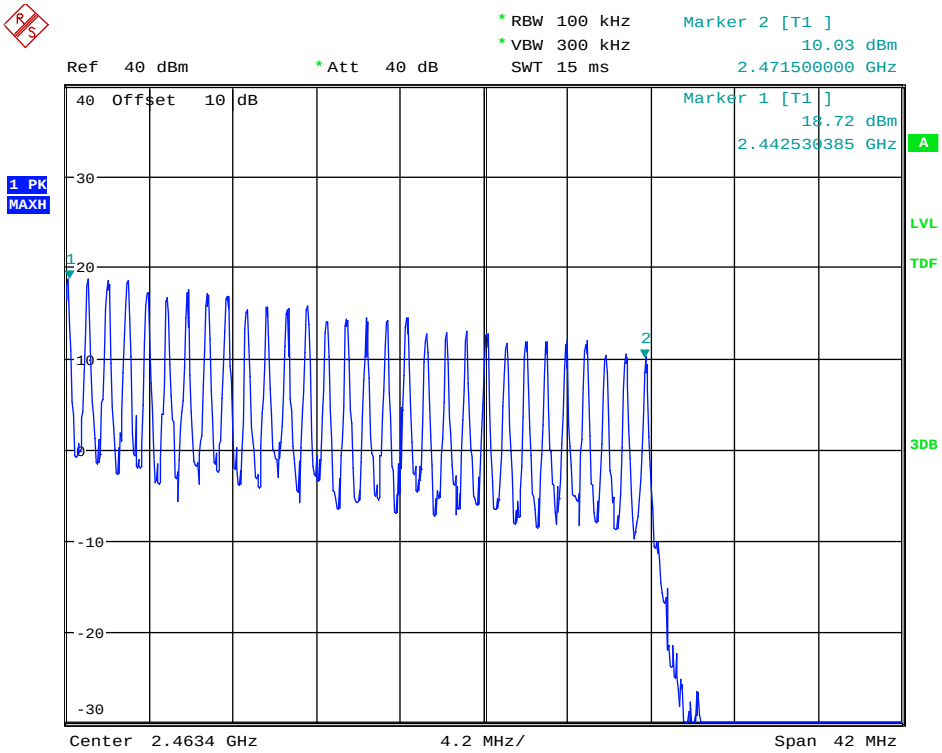


Plot 50: N-Hopping-RCM24G-MSK-50Kbps-2.4 GHz -Upper Spectrum

1.5.2. MSK-Data Rate 100Kbps

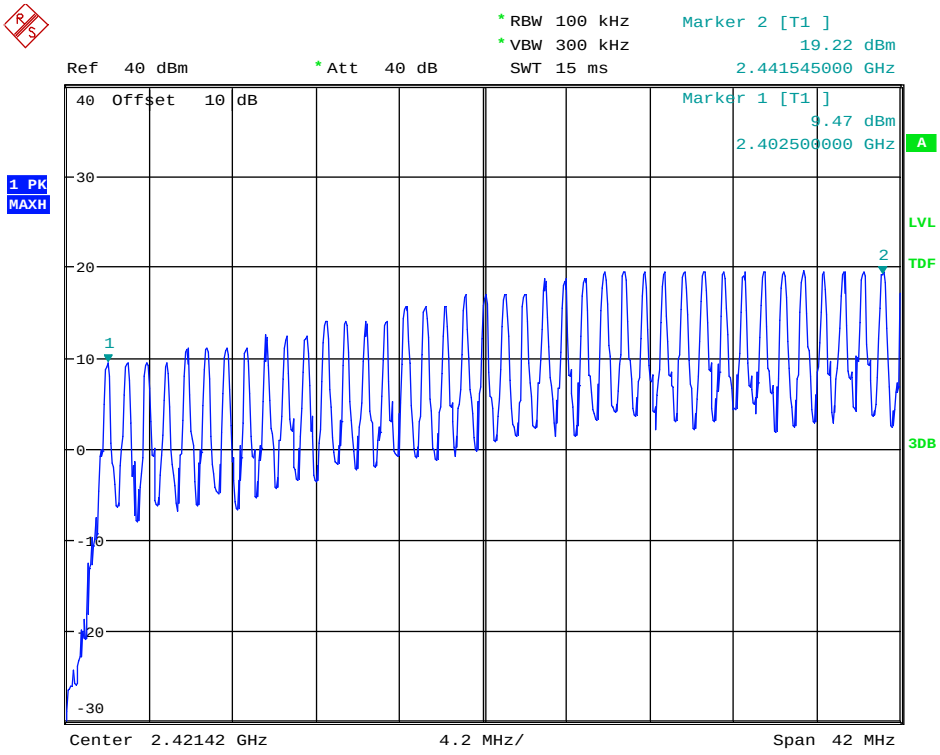


Plot 51: N-Hopping-RCM24G-MSK-100Kbps-2.4 GHz - Lower Spectrum

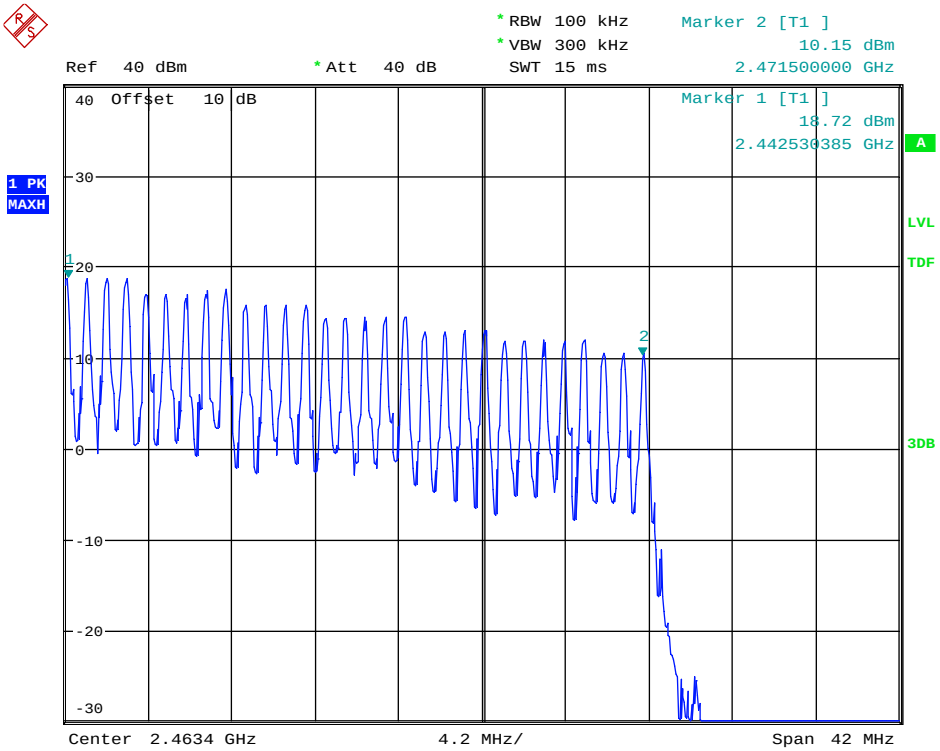


Plot 52: N-Hopping-RCM24G-MSK-100Kbps-2.4 GHz -Upper Spectrum

1.5.3. MSK-Data Rate 250Kbps

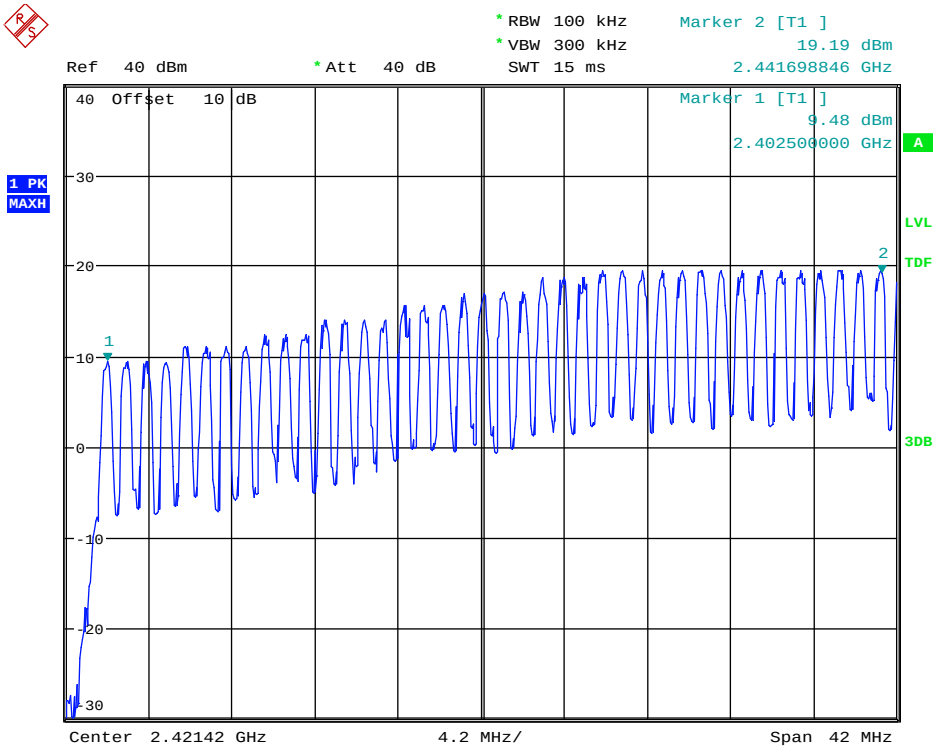


Plot 53: N-Hopping-RCM24G-MSK-250Kbps-2.4 GHz - Lower Spectrum

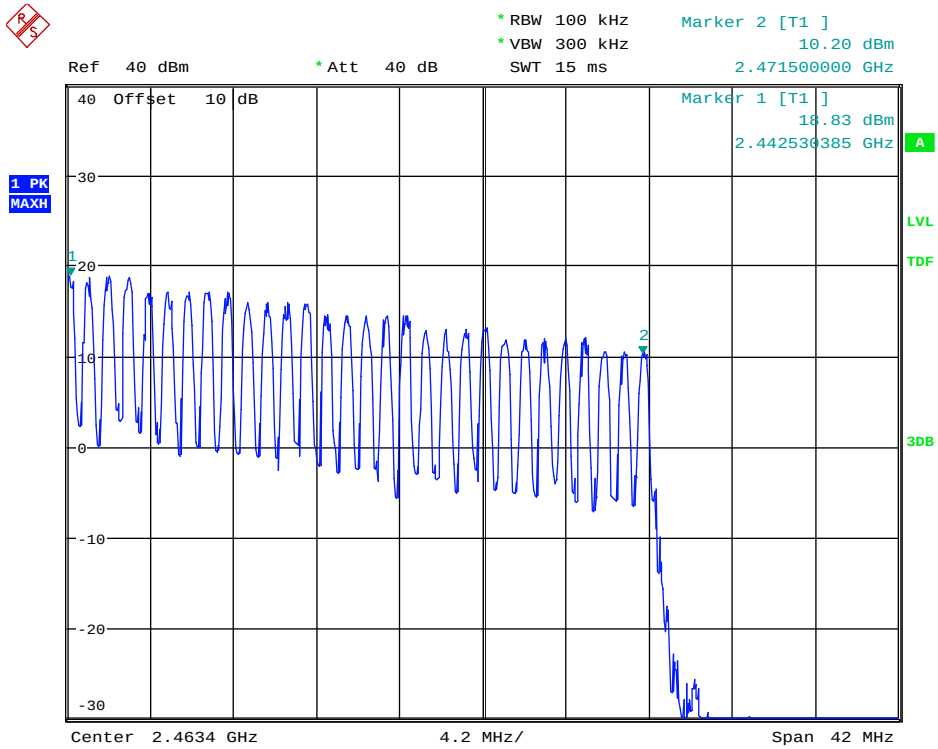


Plot 54: N-Hopping-RCM24G-MSK-250Kbps-2.4 GHz -Upper Spectrum

1.5.4. MSK-Data Rate 500Kbps



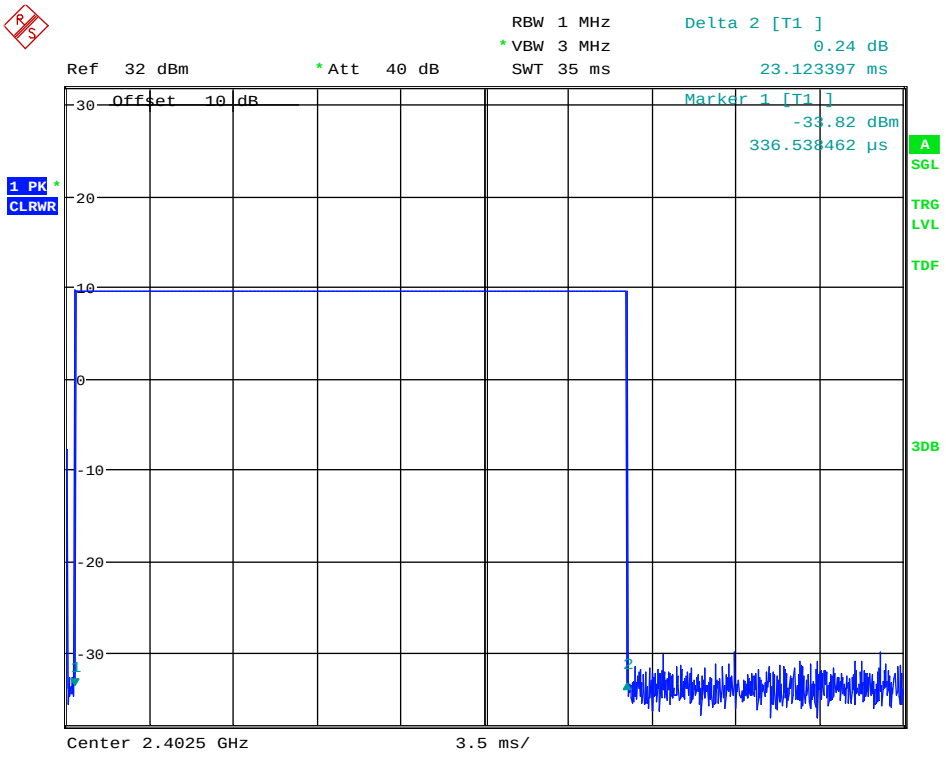
Plot 55: N-Hopping-RCM24G-MSK-500Kbps-2.4 GHz - Lower Spectrum



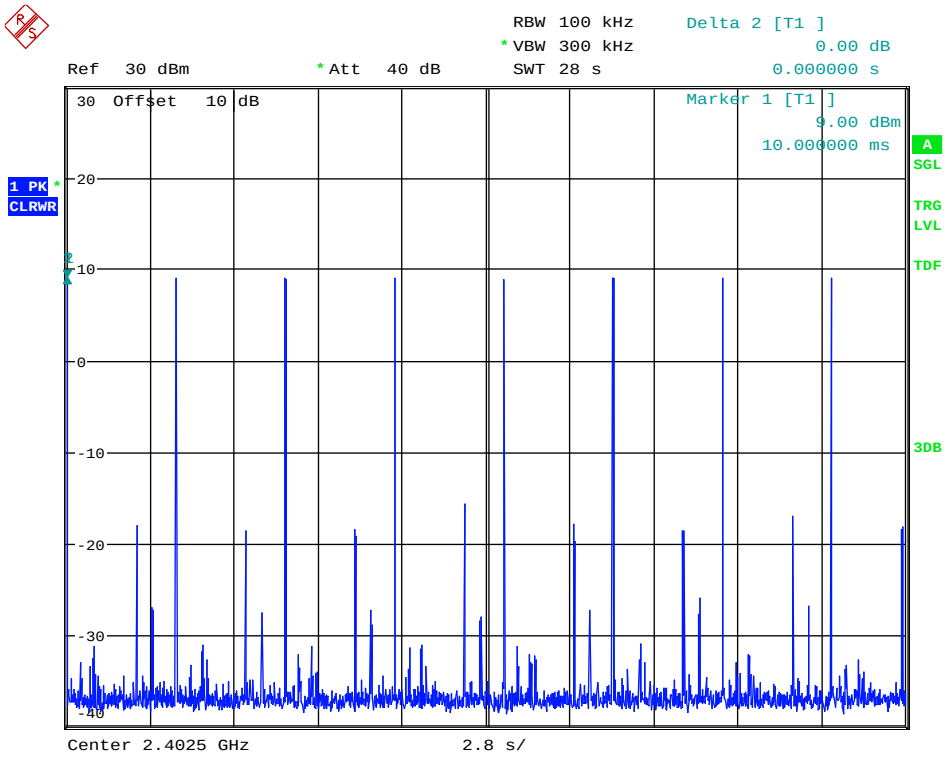
Plot 56: N-Hopping-RCM24G-MSK-500Kbps-2.4 GHz -Upper Spectrum

1.6. Average Occupancy Time (Occ.Time)

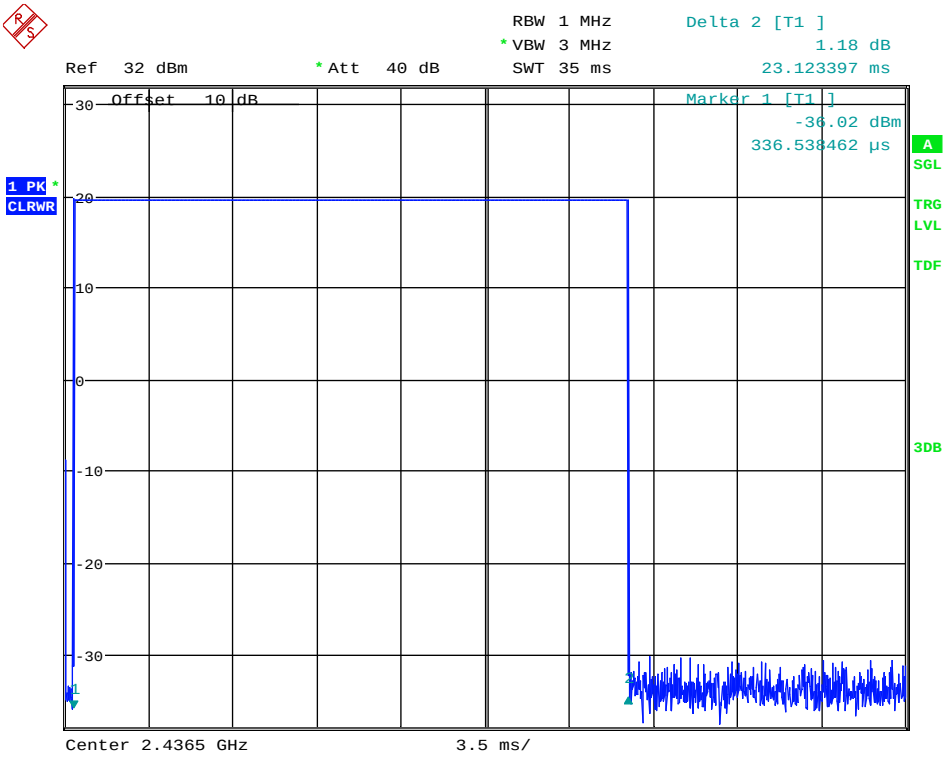
1.6.1. MSK-Data Rate 50Kbps



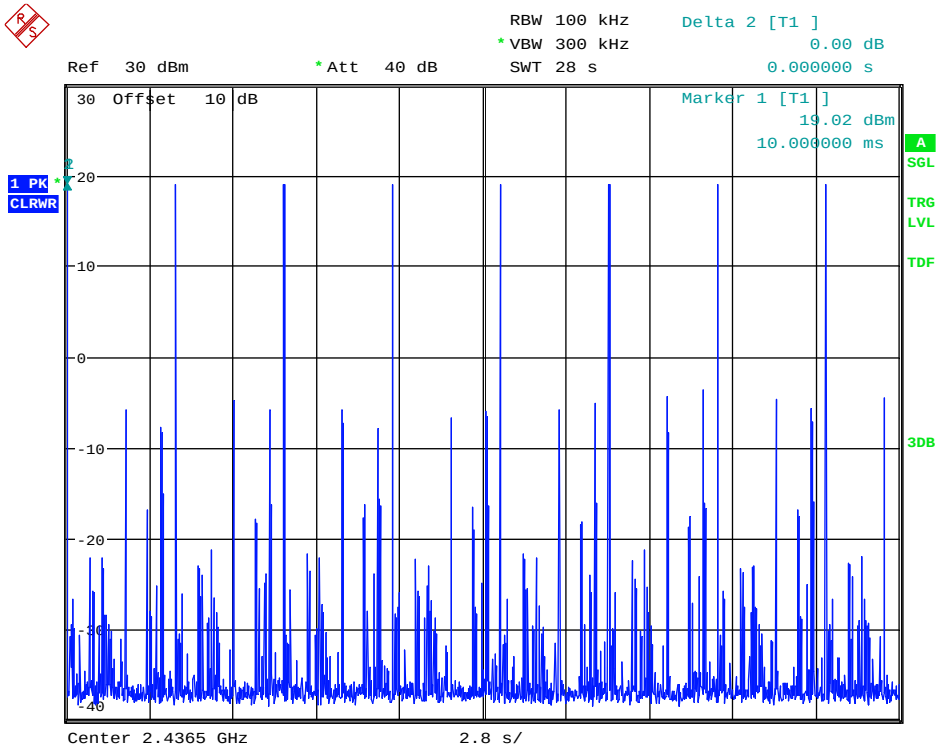
Plot 57: Occ.Time-Single Transmission-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm



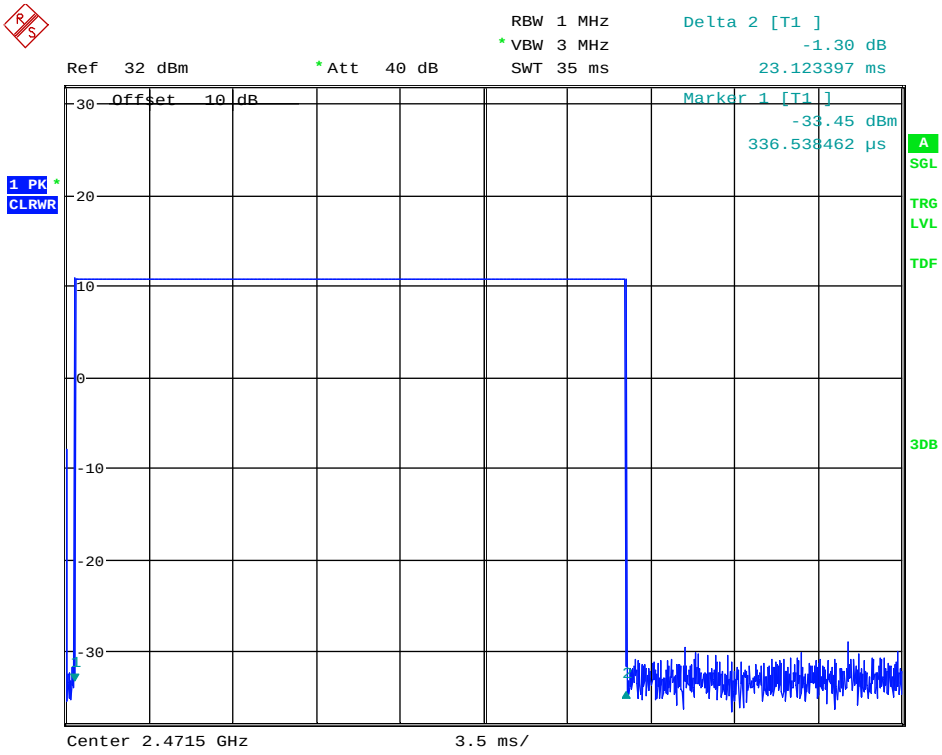
Plot 58: Transmissions in 28 Sec-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm



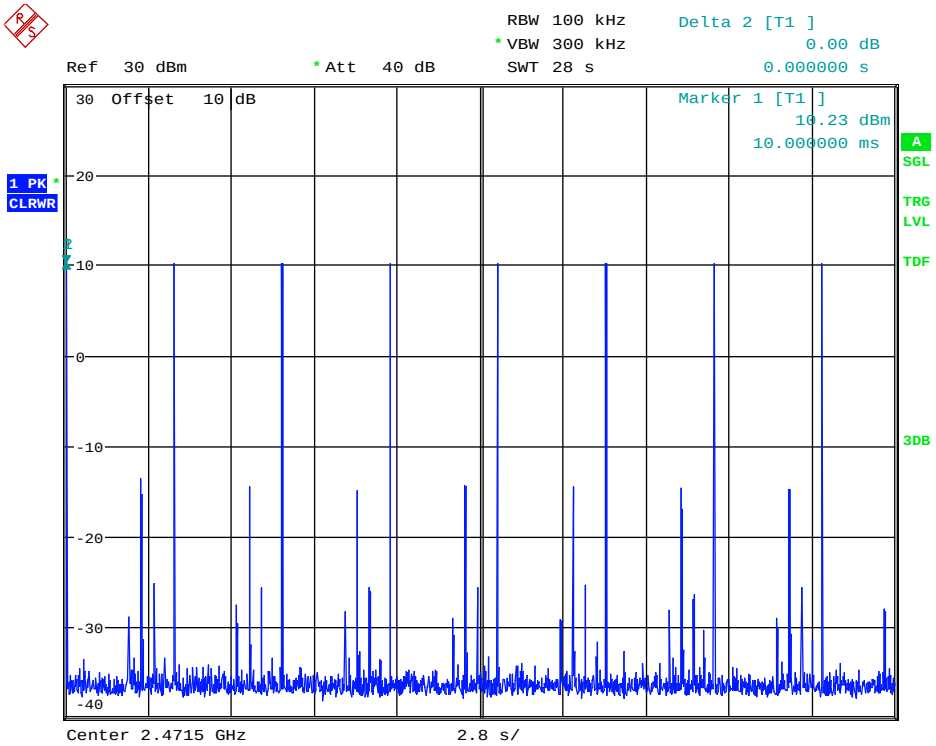
Plot 59: Occ.Time-Single Transmission-RCM24G-MSK-50Kbps-Ch34(2436.5 MHz)-PWR+21dBm



Plot 60: Transmissions in 28 Sec-RCM24G-MSK-50Kbps-Ch34(2436.5 MHz)-PWR+21dBm

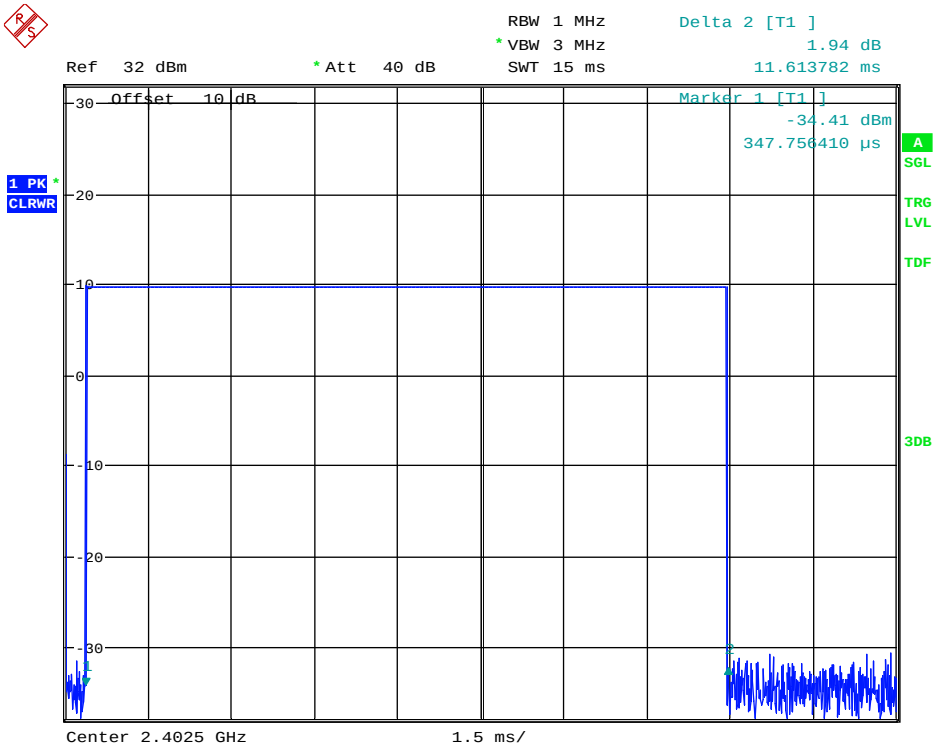


Plot 61: Occ.Time-Single Transmission-RCM24G-MSK-50Kbps-Ch69(2471.5 MHz)-PWR+12dBm

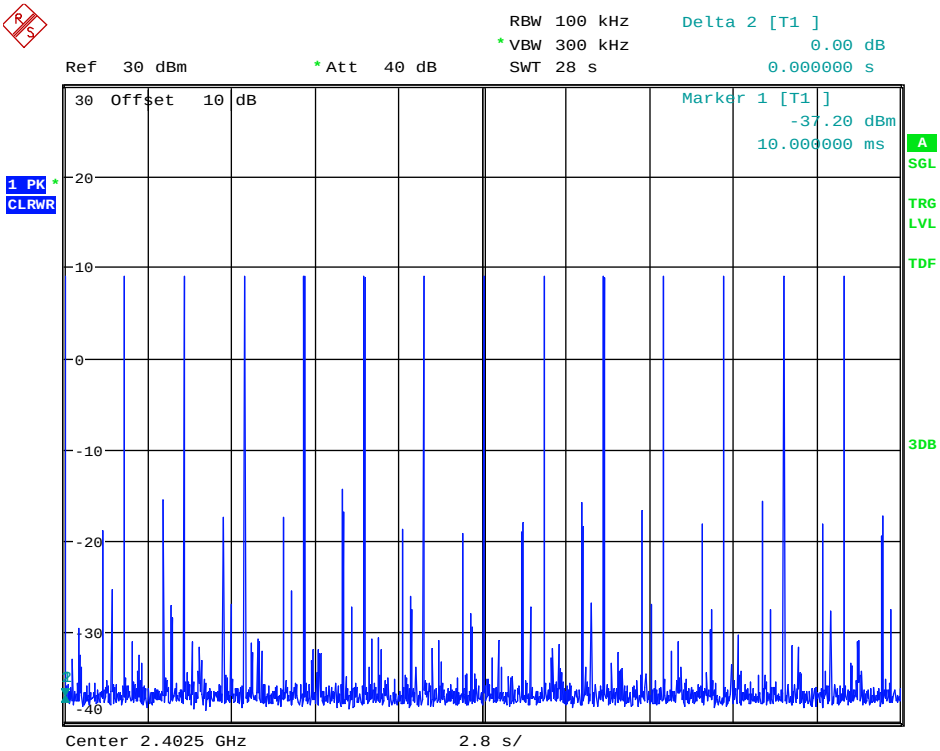


Plot 62: Transmissions in 28 Sec-RCM24G-MSK-50Kbps-Ch69(2471.5 MHz)-PWR+12dBm

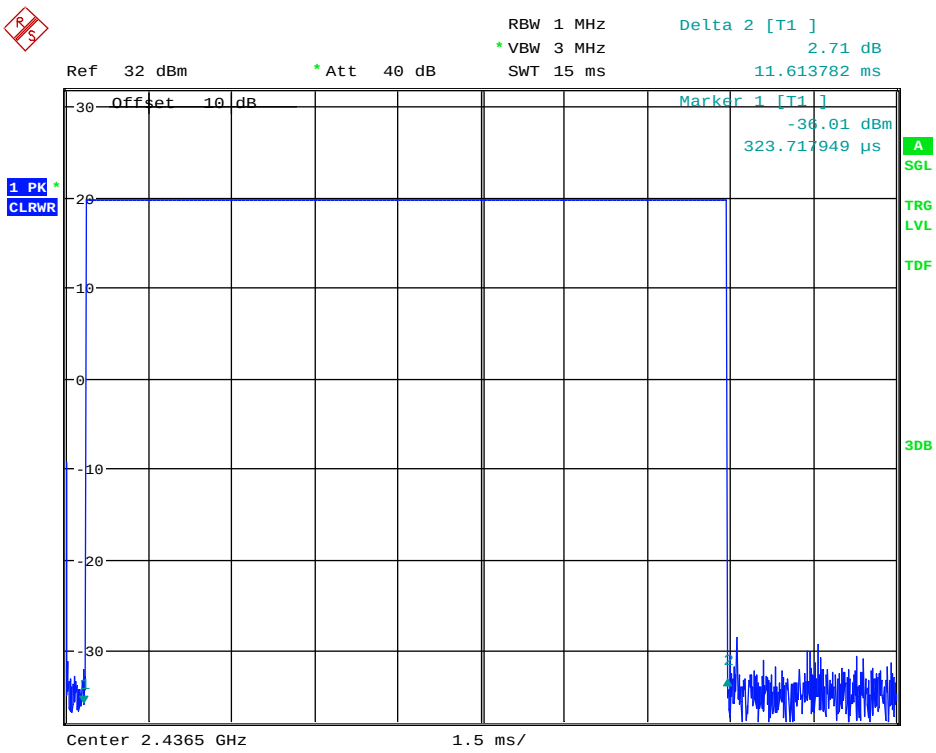
1.6.2. MSK-Data Rate 100Kbps



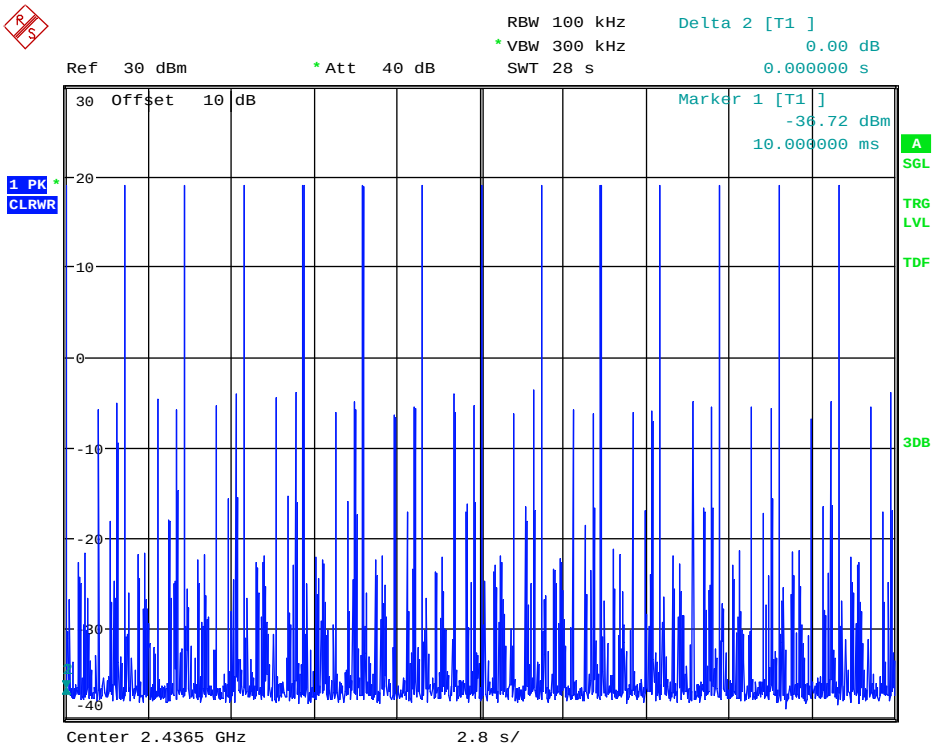
Plot 63: Occ.Time-Single Transmission-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm



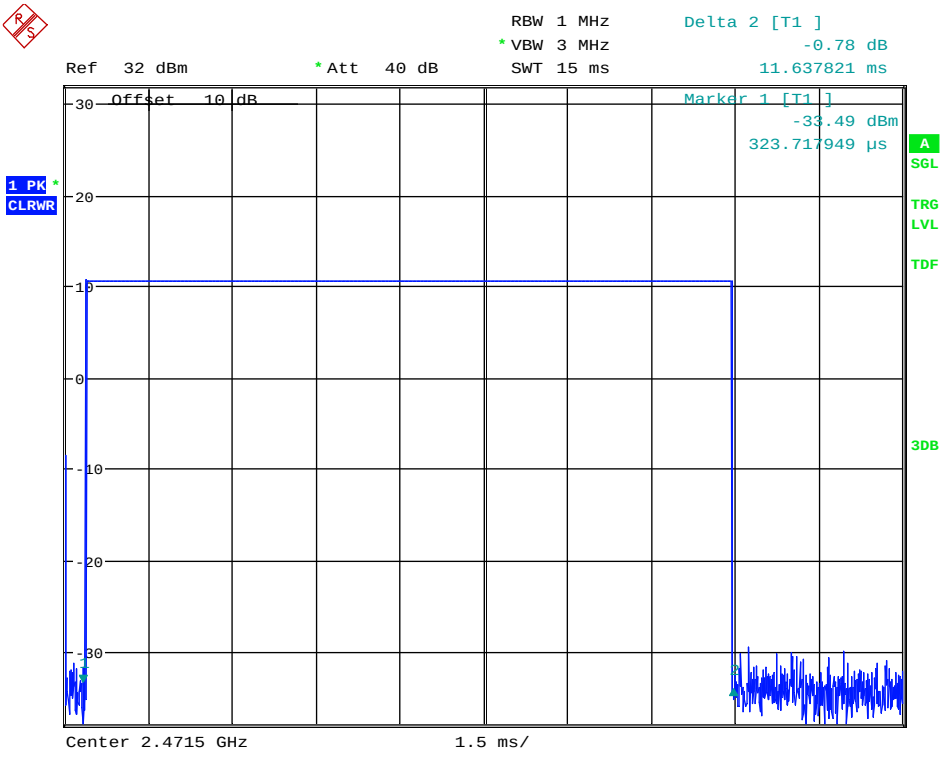
Plot 64: Transmissions in 28 Sec-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm



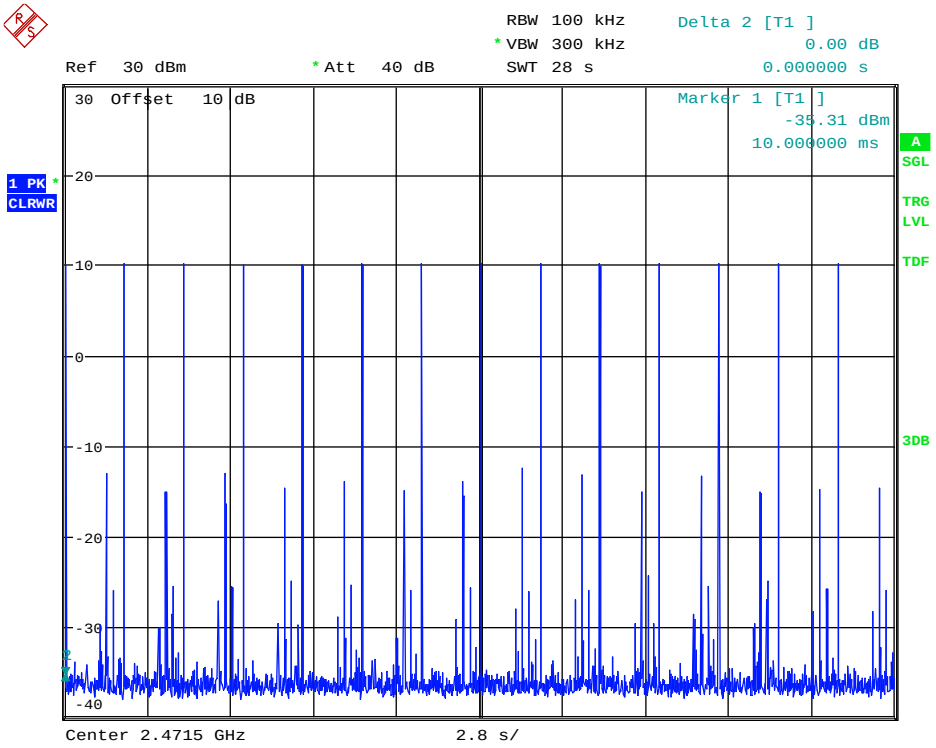
Plot 65: Occ.Time-Single Transmission-RCM24G-MSK-100Kbps-Ch34(2436.5 MHz)-PWR+21dBm



Plot 66: Transmissions in 28 Sec-RCM24G-MSK-100Kbps-Ch34(2436.5 MHz)-PWR+21dBm

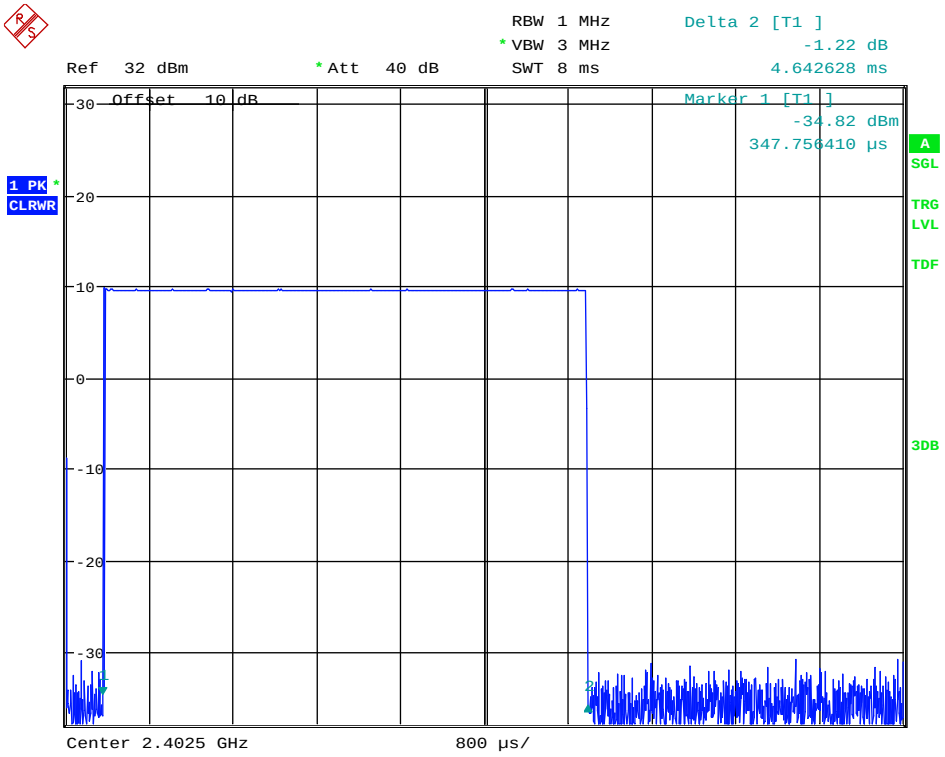


Plot 67: Occ.Time-Single Transmission-RCM24G-MSK-100Kbps-Ch69(2471.5 MHz)-PWR+12dBm

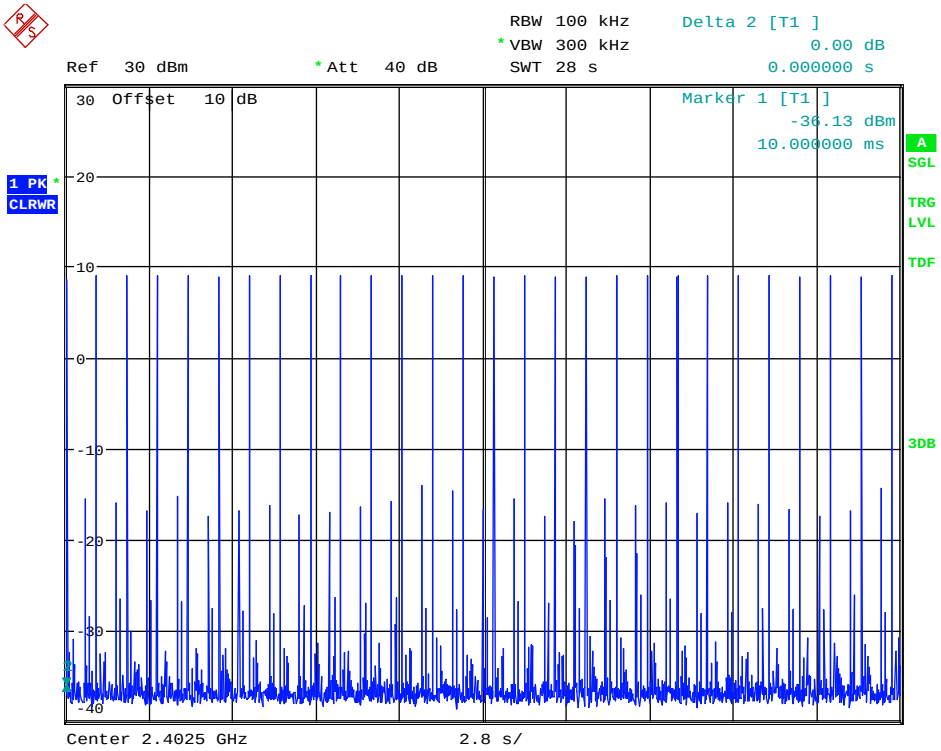


Plot 68: Transmissions in 28 Sec-RCM24G-MSK-100Kbps-Ch69(2471.5 MHz)-PWR+12dBm

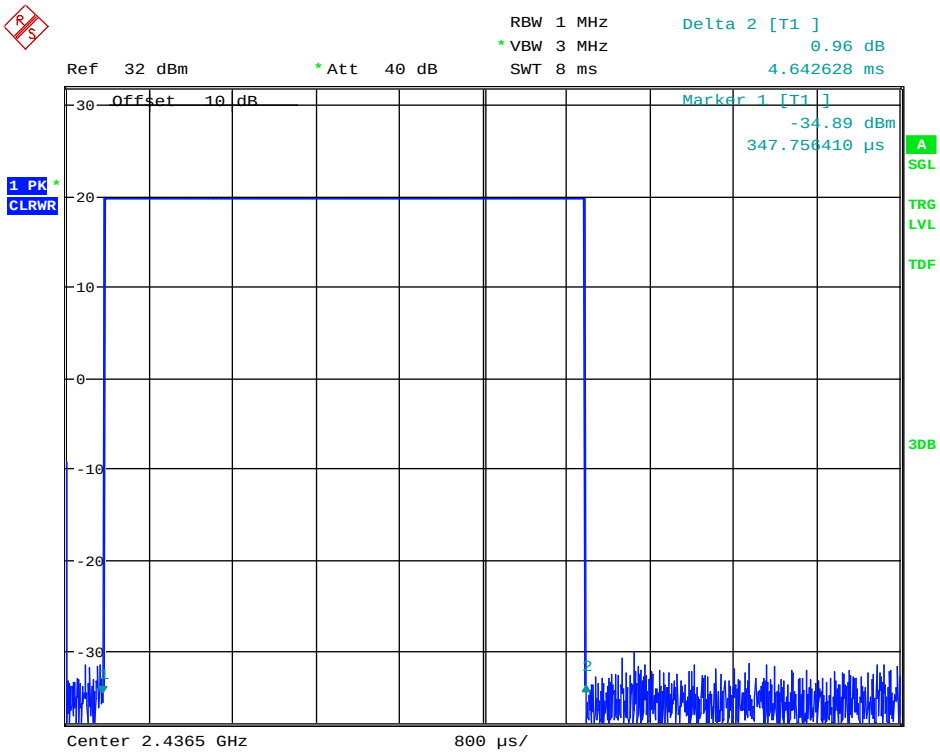
1.6.3. MSK-Data Rate 250Kbps



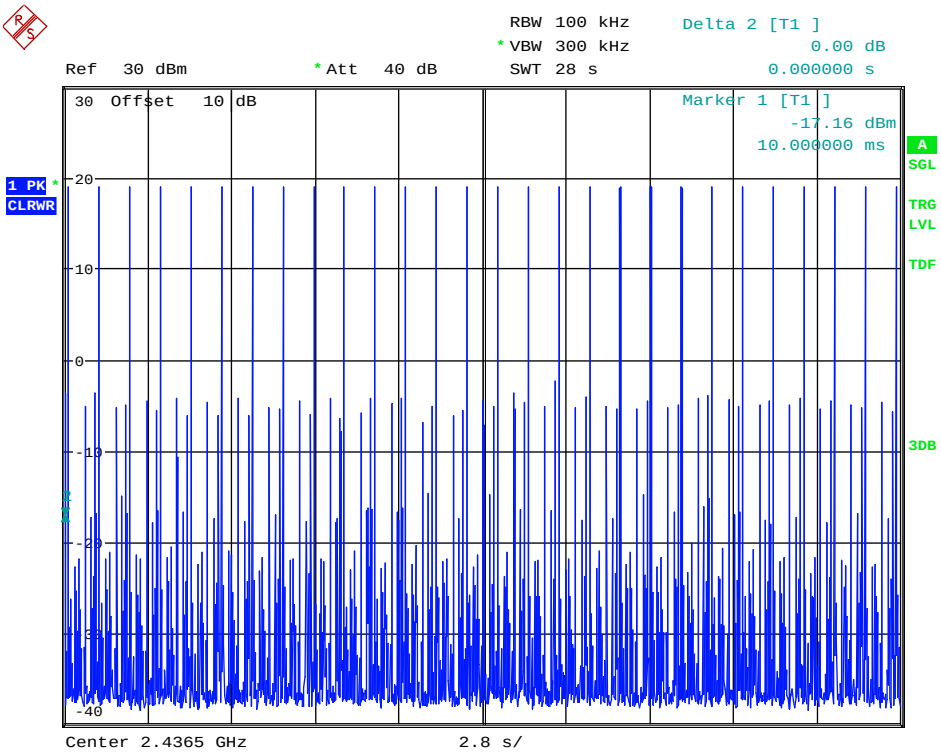
Plot 69: Occ.Time-Single Transmission-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm



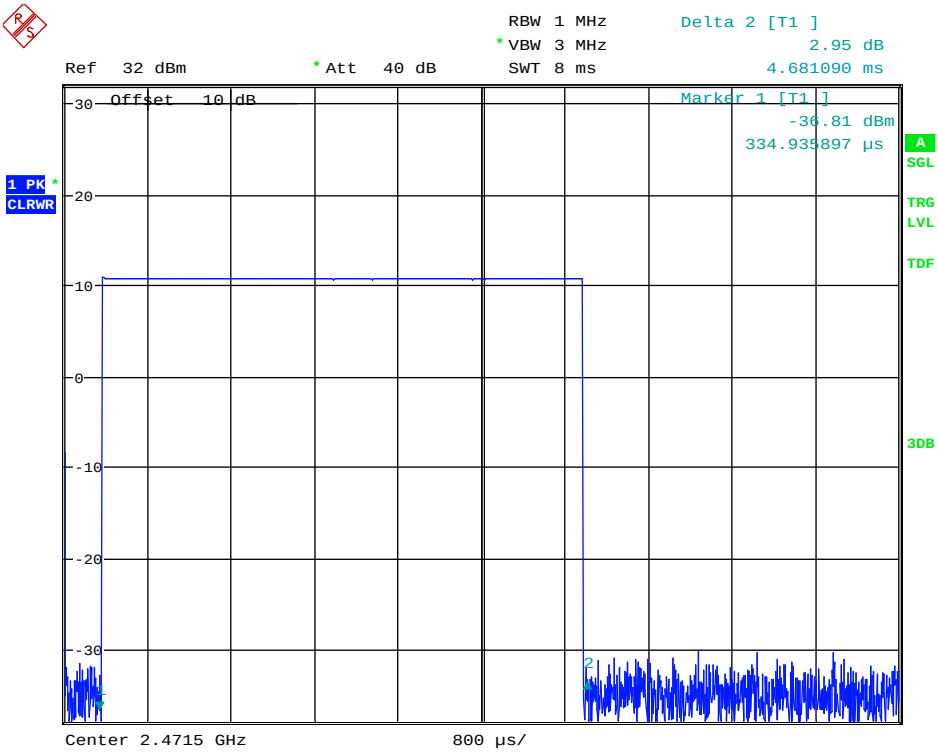
Plot 70: Transmissions in 28 Sec-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm



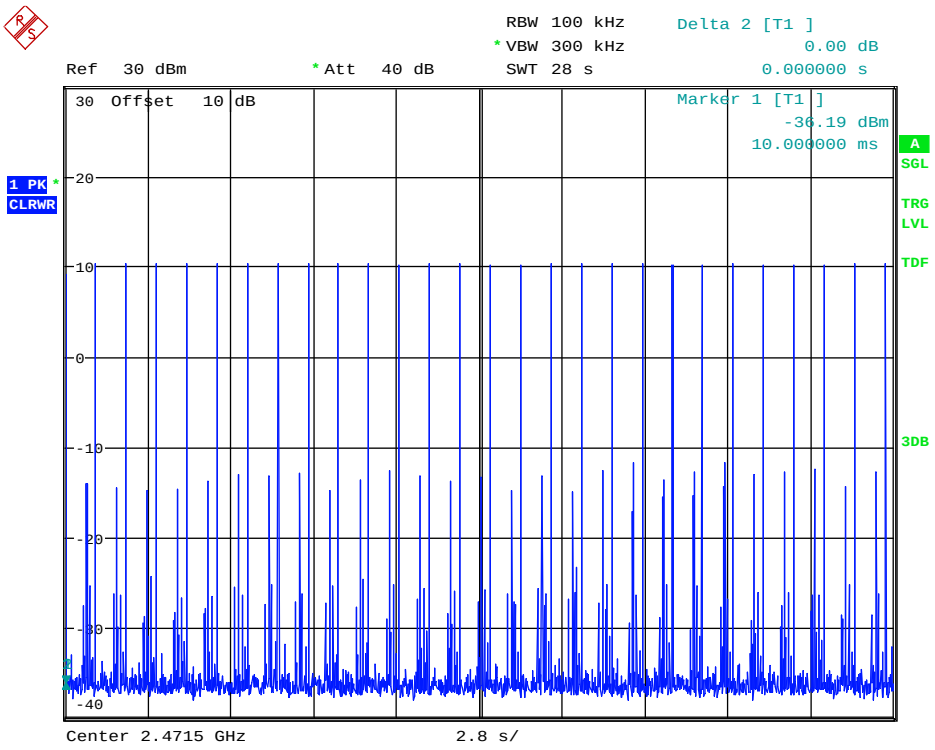
Plot 71: Occ.Time-Single Transmission-RCM24G-MSK-250Kbps-Ch34(2436.5 MHz)-PWR+21dBm



Plot 72: Transmissions in 28 Sec-RCM24G-MSK-250Kbps-Ch34(2436.5 MHz)-PWR+21dBm

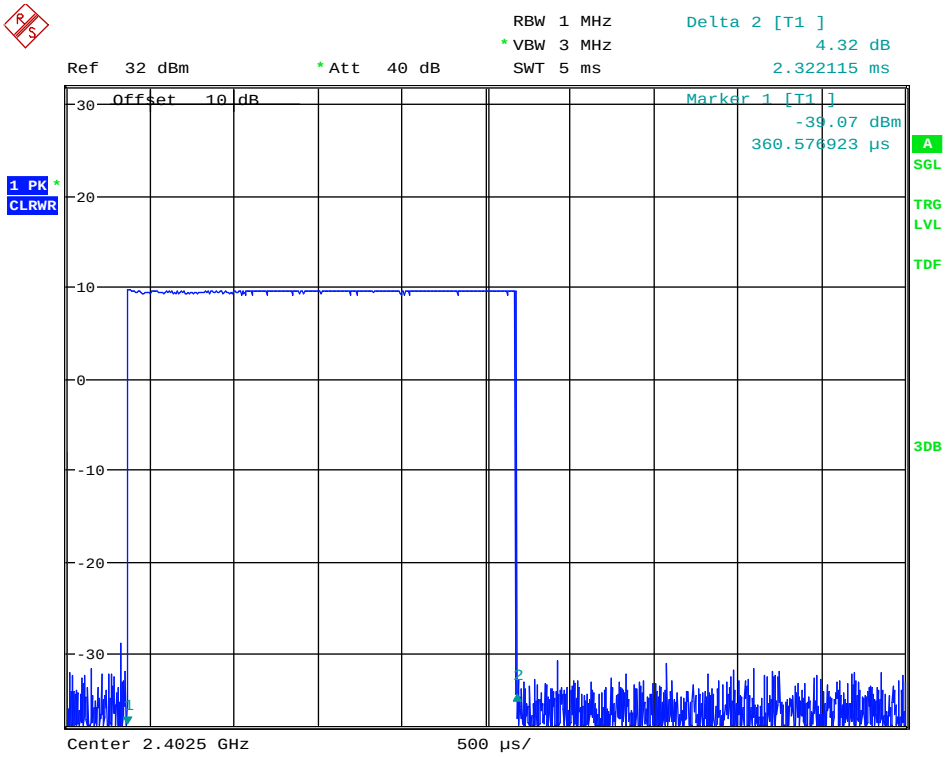


Plot 73: Occ.Time-Single Transmission-RCM24G-MSK-250Kbps-Ch69(2471.5 MHz)-PWR+12dBm

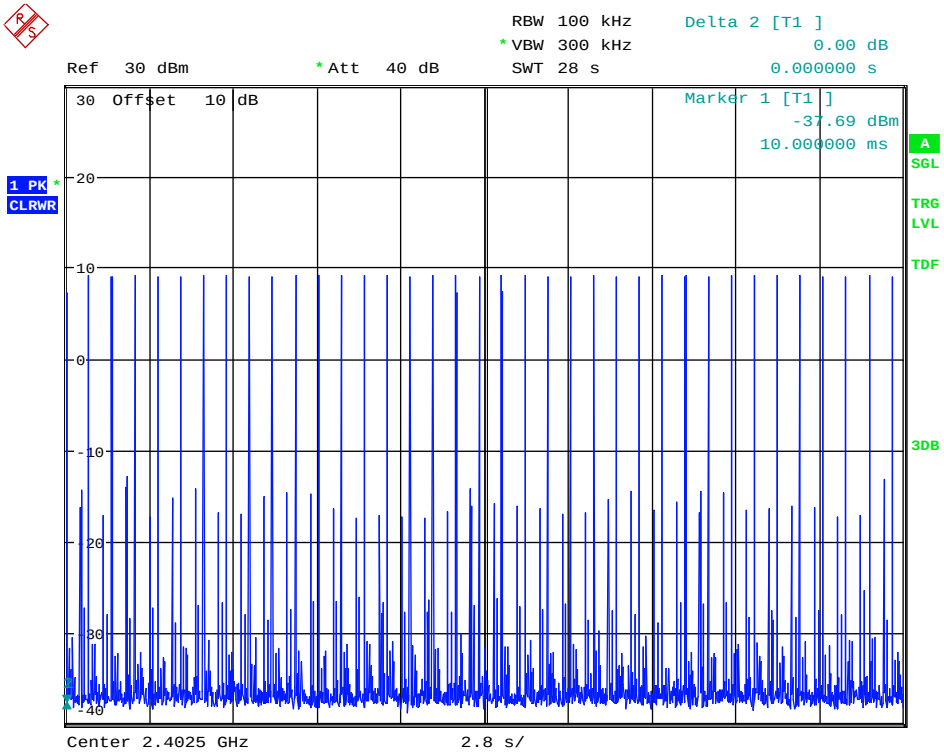


Plot 74: Transmissions in 28 Sec-RCM24G-MSK-250Kbps-Ch69(2471.5 MHz)-PWR+12dBm

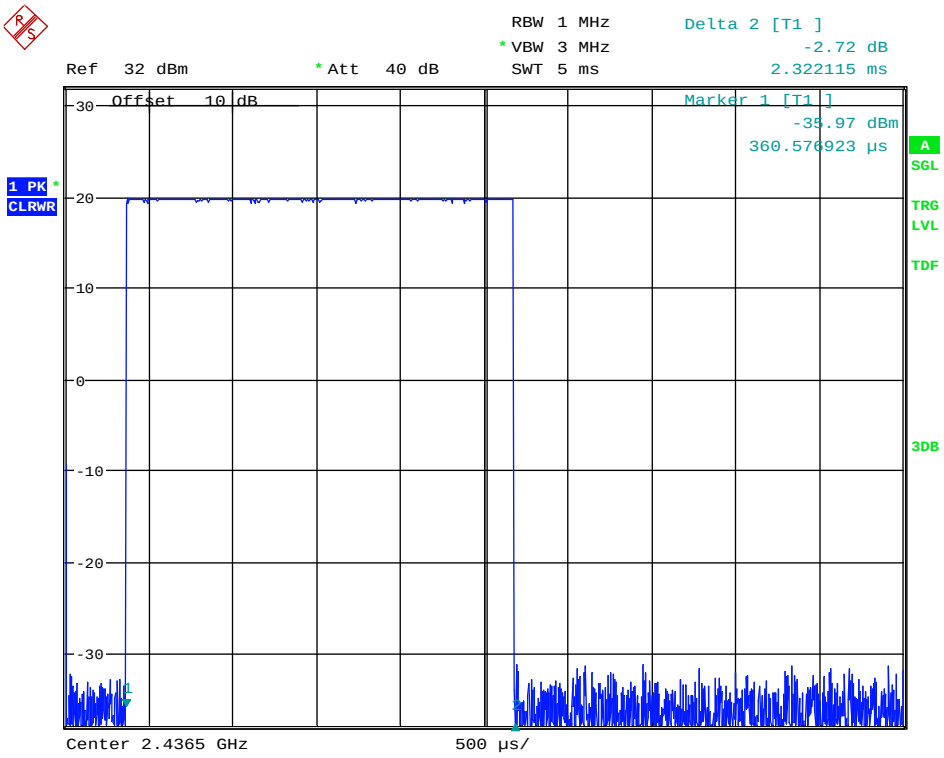
1.6.4. MSK-Data Rate 500Kbps



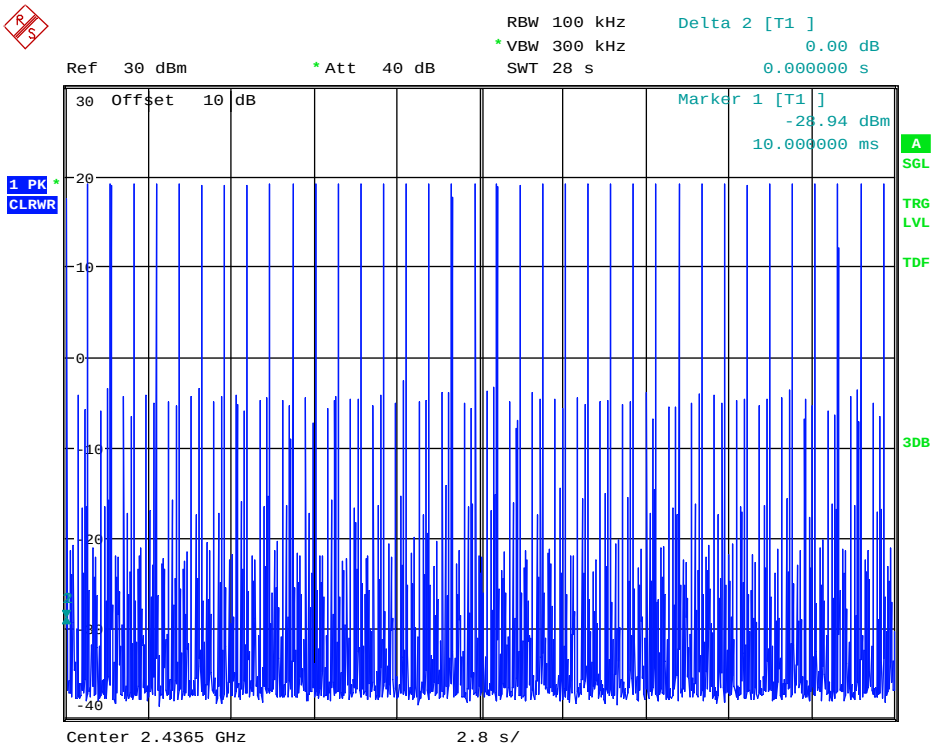
Plot 75: Occ.Time-Single Transmission-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm



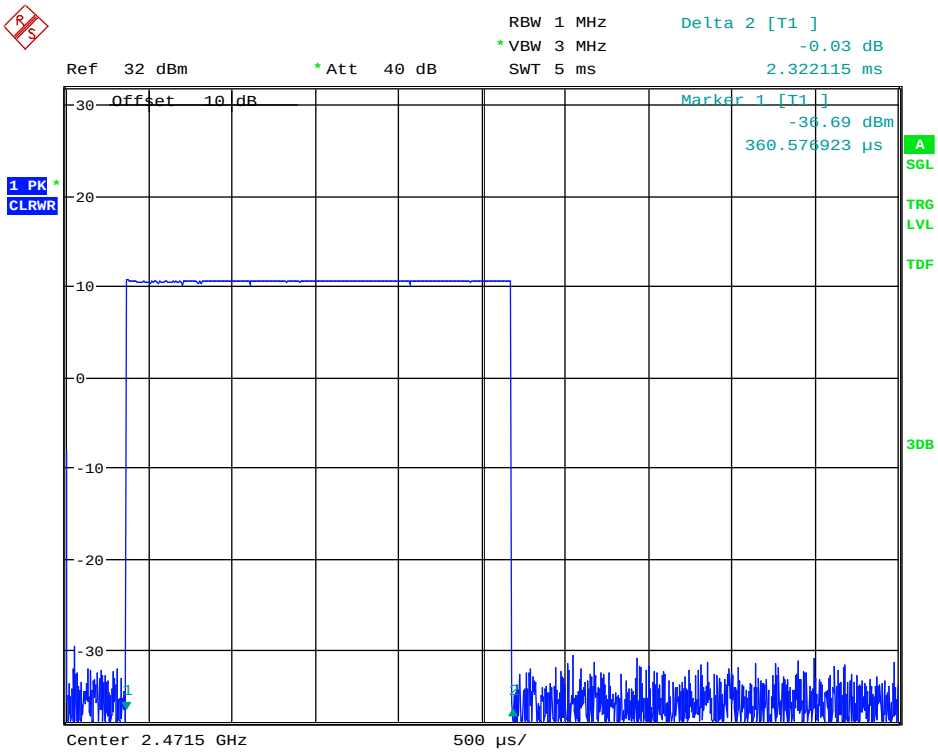
Plot 76: Transmissions in 28 Sec-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm



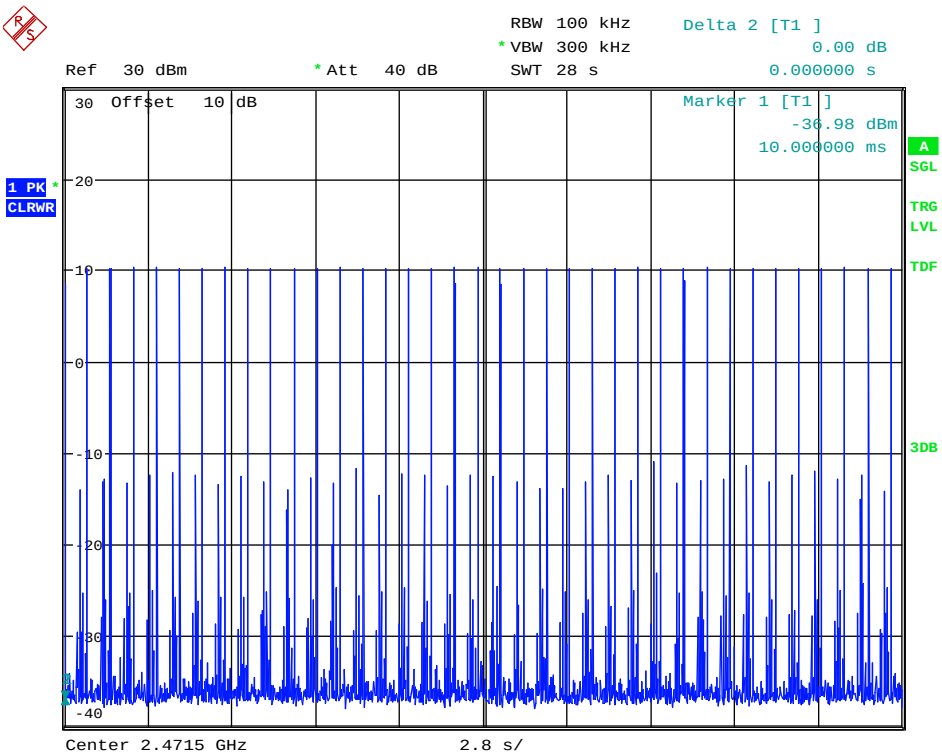
Plot 77: Occ.Time-Single Transmission-RCM24G-MSK-500Kbps-Ch34(2436.5 MHz)-PWR+21dBm



Plot 78: Transmissions in 28 Sec-RCM24G-MSK-500Kbps-Ch34(2436.5 MHz)-PWR+21dBm



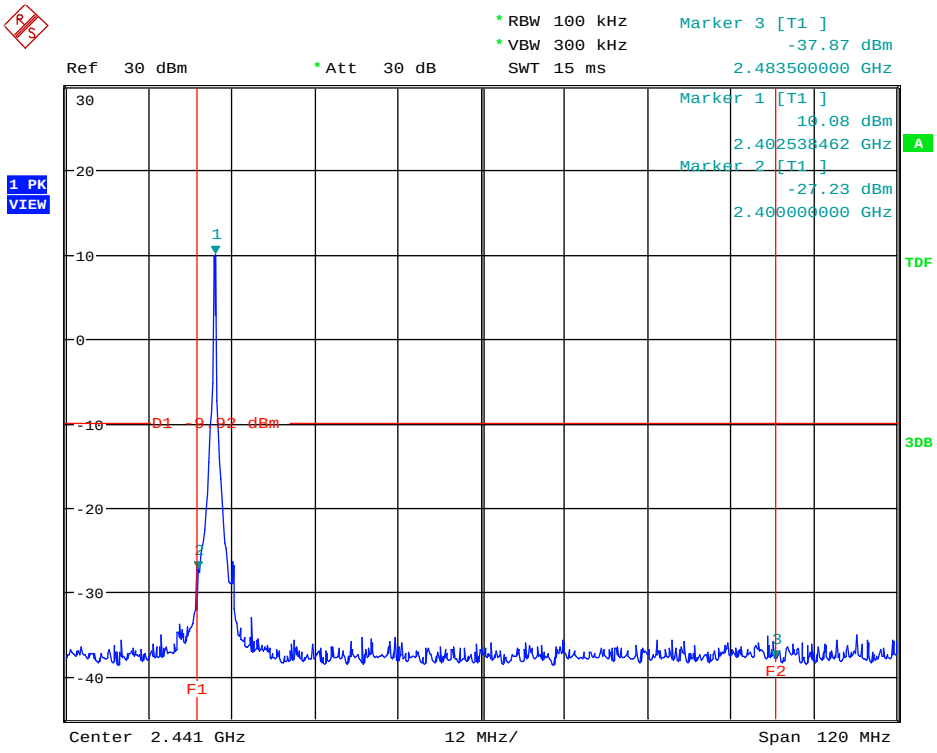
Plot 79: Occ.Time-Single Transmission-RCM24G-MSK-500Kbps-Ch69(2471.5 MHz)-PWR+12dBm



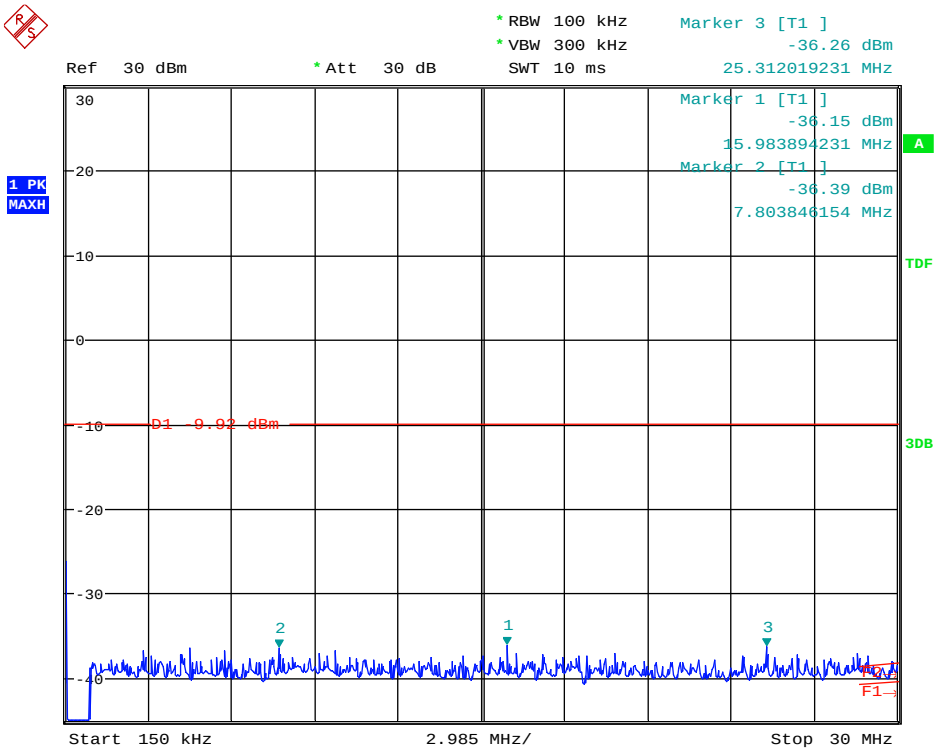
Plot 80: Transmissions in 28 Sec-RCM24G-MSK-500Kbps-Ch69(2471.5 MHz)-PWR+12dBm

1.7. 20dBc TX Conducted Spurious Emissions

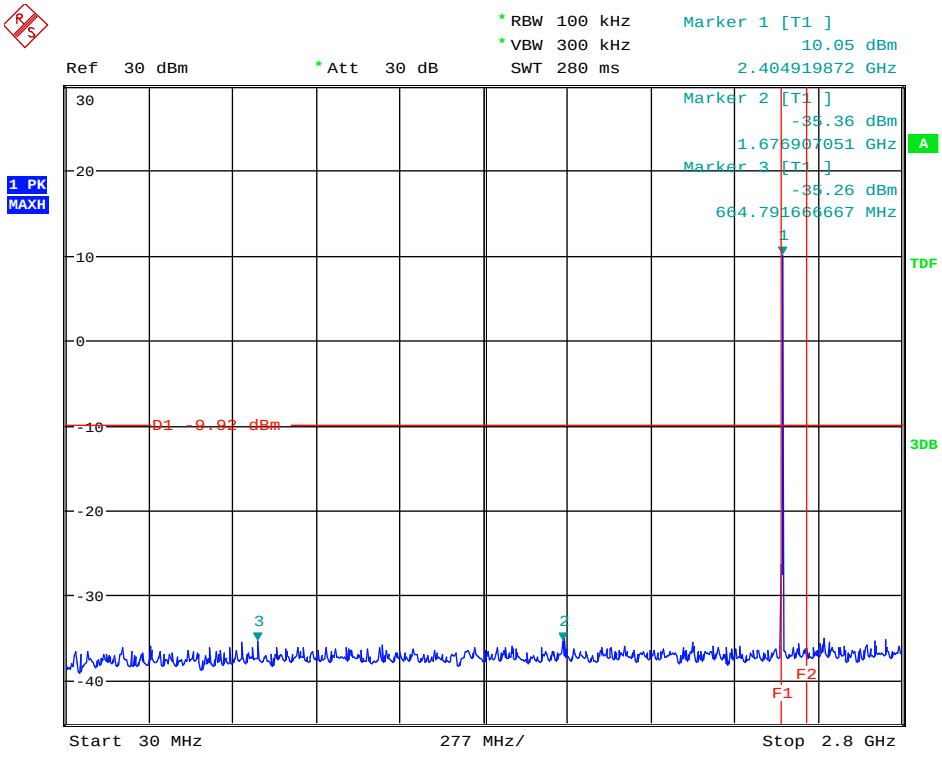
1.7.1. MSK-Data Rate 50Kbps



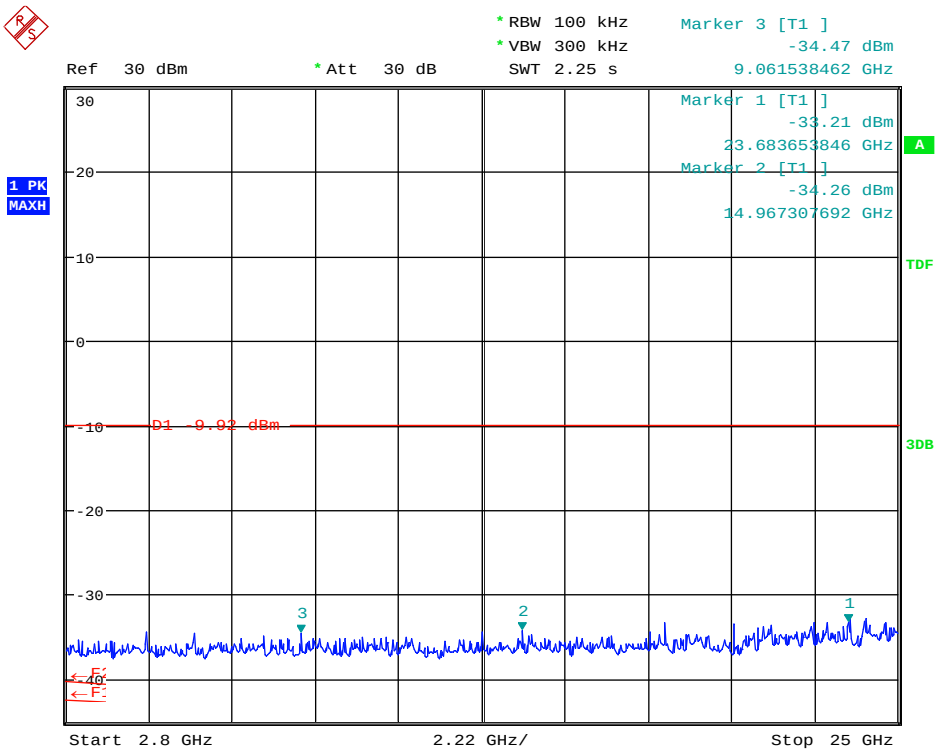
Plot 81: 20dBc-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm-Carrier



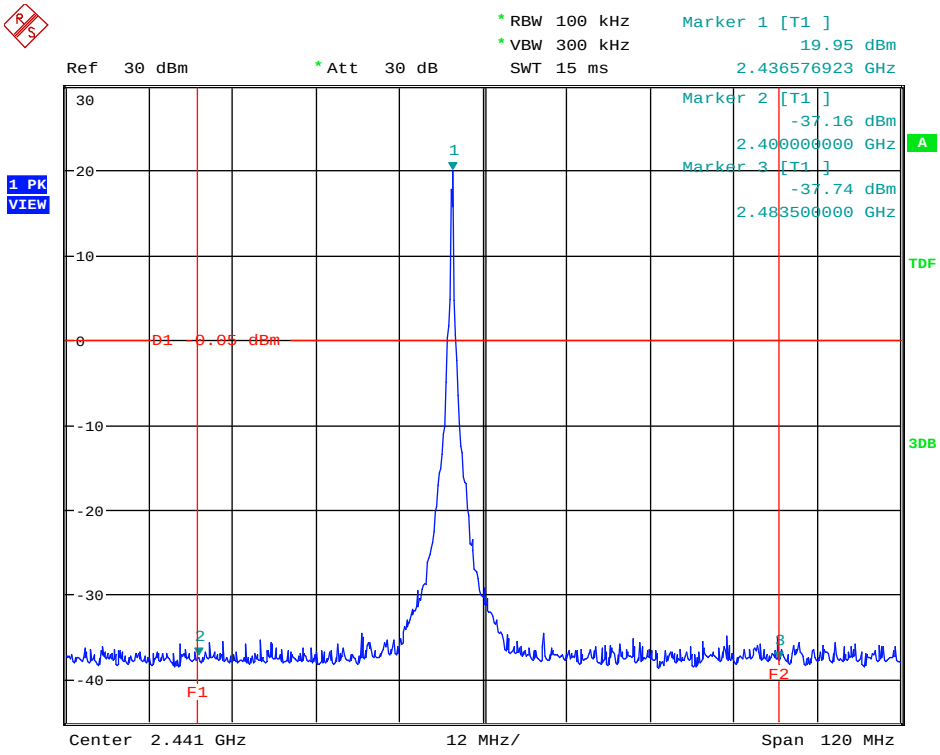
Plot 82: 20dBc-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm-0.15MHz-30MHz



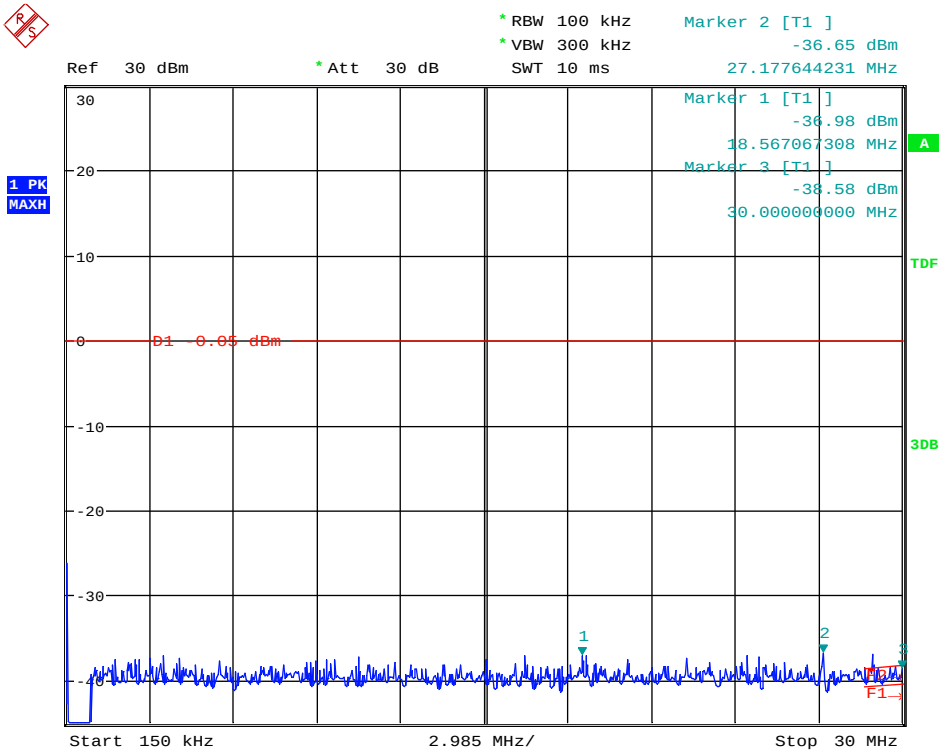
Plot 83: 20dBc-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm-30MHz-2.8GHz



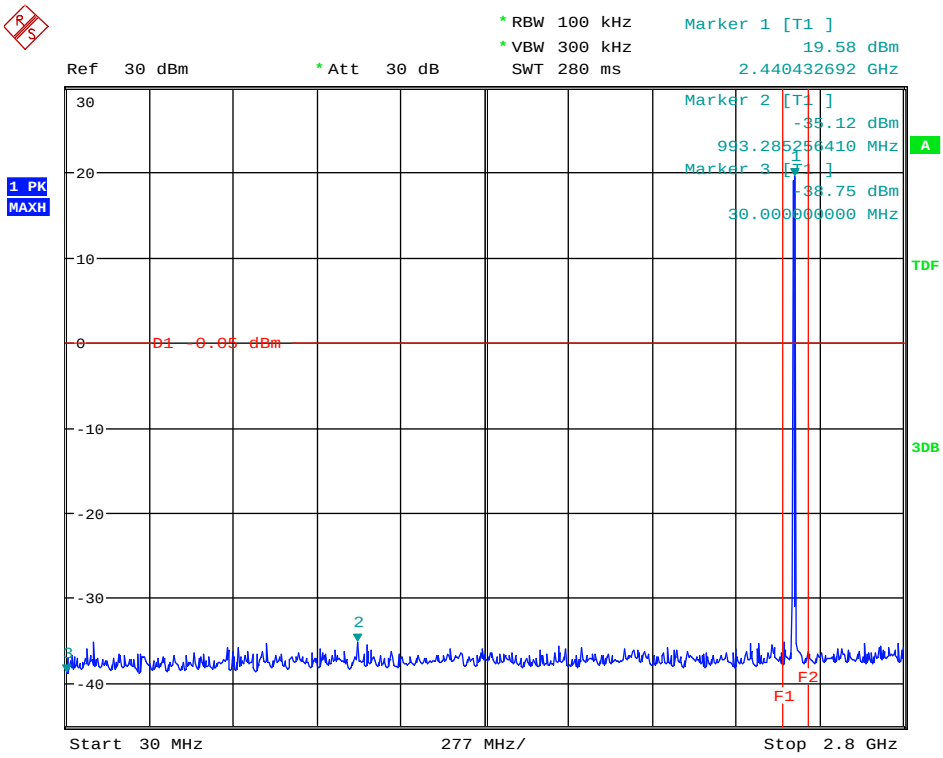
Plot 84: 20dBc-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm-2.8GHz-25GHz



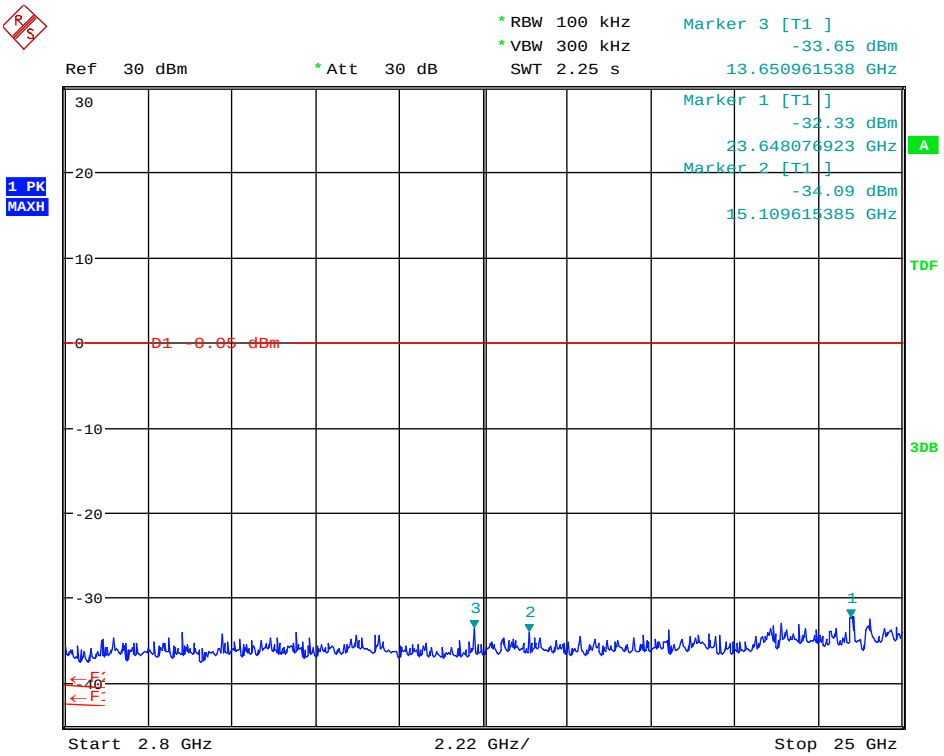
Plot 85: 20dBc-RCM24G-MSK-50Kbps-Ch34(2436.5 MHz)-PWR+21dBm-Carrier



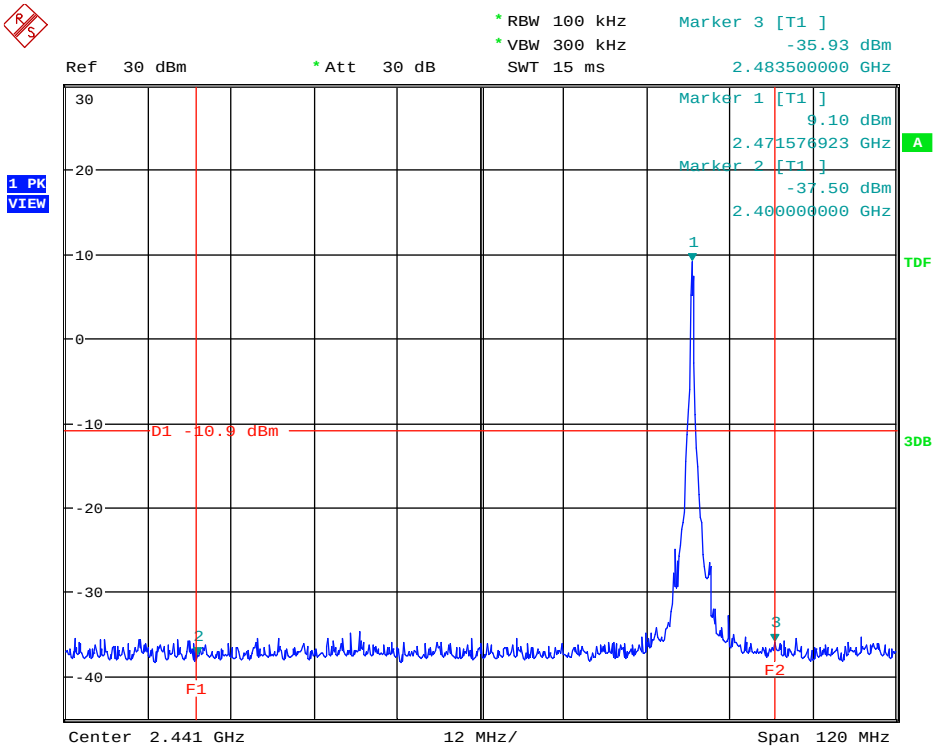
Plot 86: 20dBc-RCM24G-MSK-50Kbps- Ch34(2436.5 MHz)-PWR+21dBm-0.15MHz-30MHz



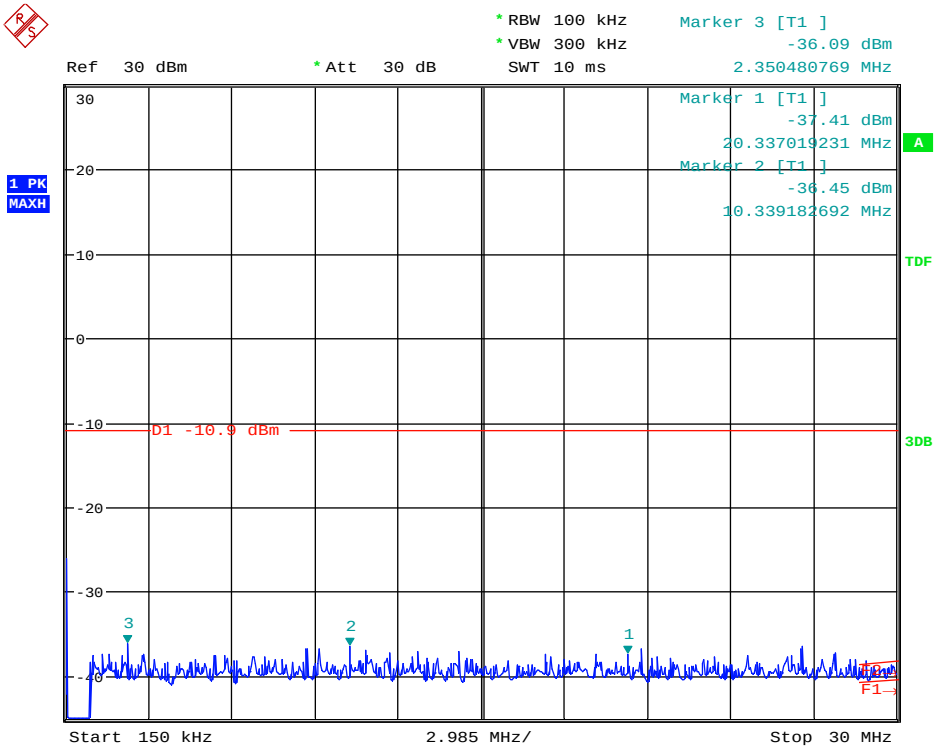
Plot 87: 20dBc-RCM24G-MSK-50Kbps-Ch34(2436.5 MHz)-PWR+21dBm-30MHz-2.8GHz



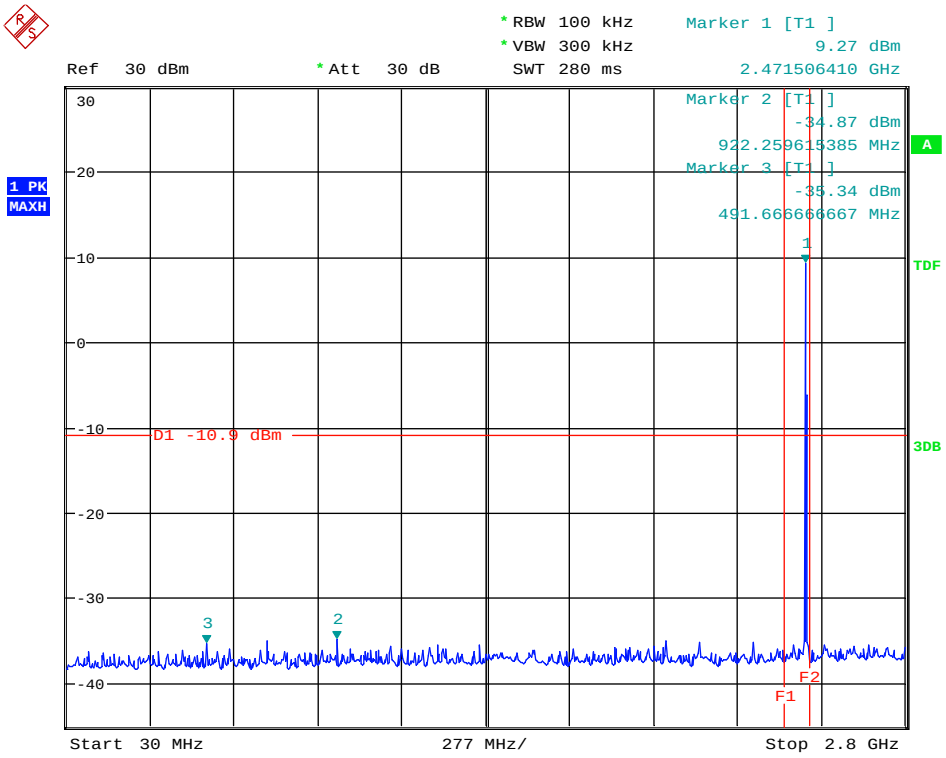
Plot 88: 20dBc-RCM24G-MSK-50Kbps-Ch34(2436.5 MHz)-PWR+21dBm-2.8GHz-25GHz



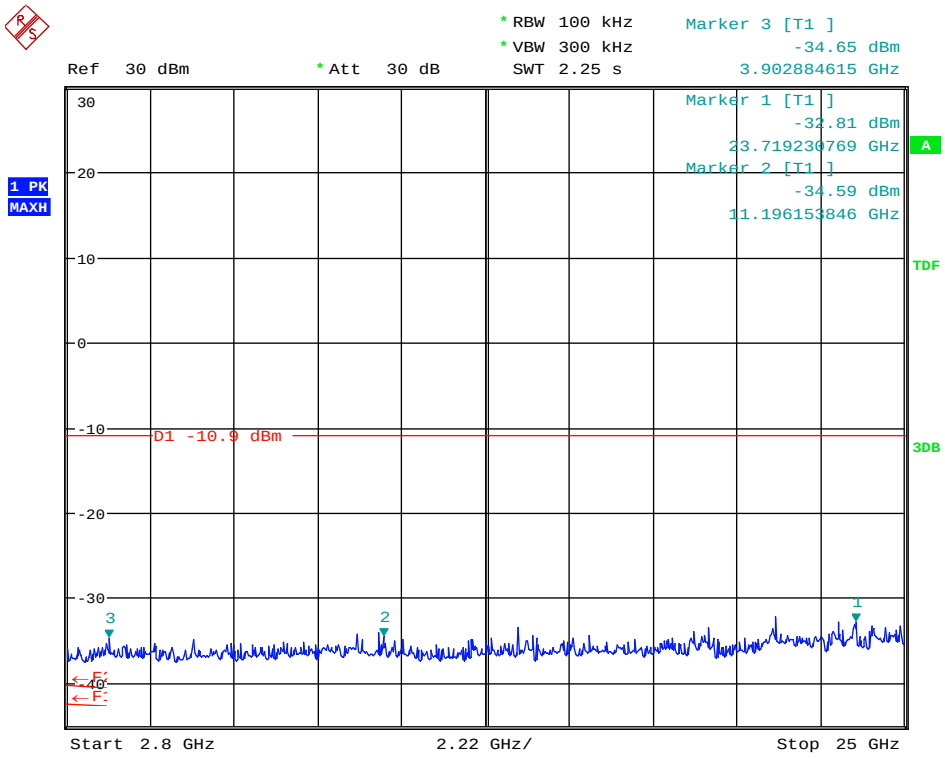
Plot 89: 20dBc-RCM24G-MSK-50Kbps-Ch69(2471.5 MHz)-PWR+12dBm-Carrier



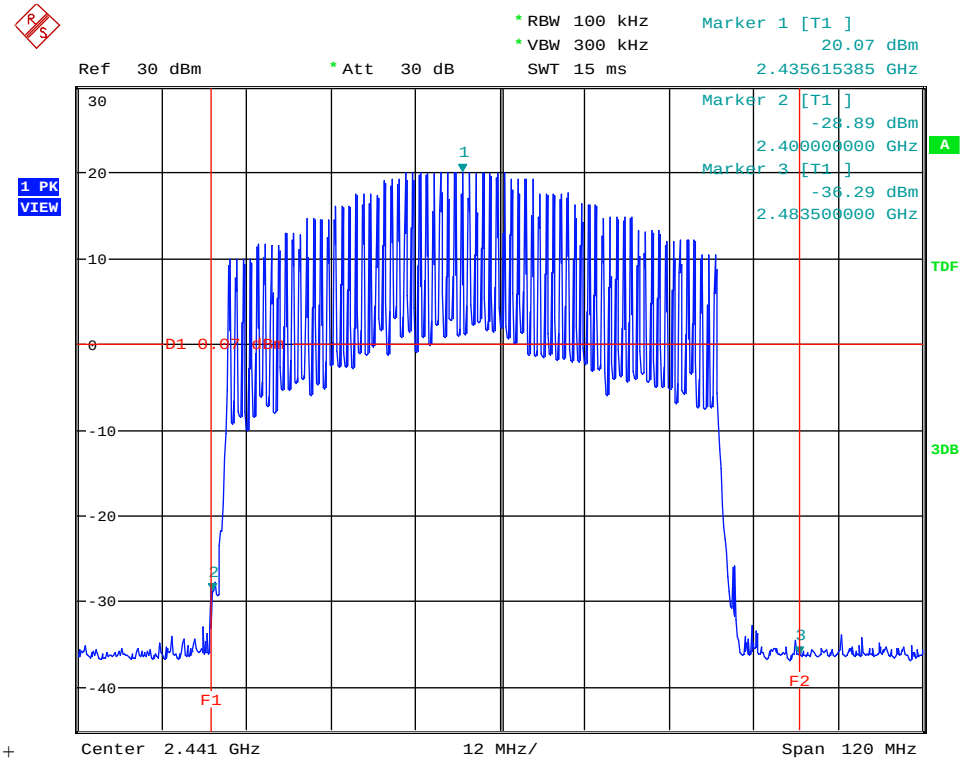
Plot 90: 20dBc-RCM24G-MSK-50Kbps- Ch69(2471.5 MHz)-PWR+12dBm-0.15MHz-30MHz



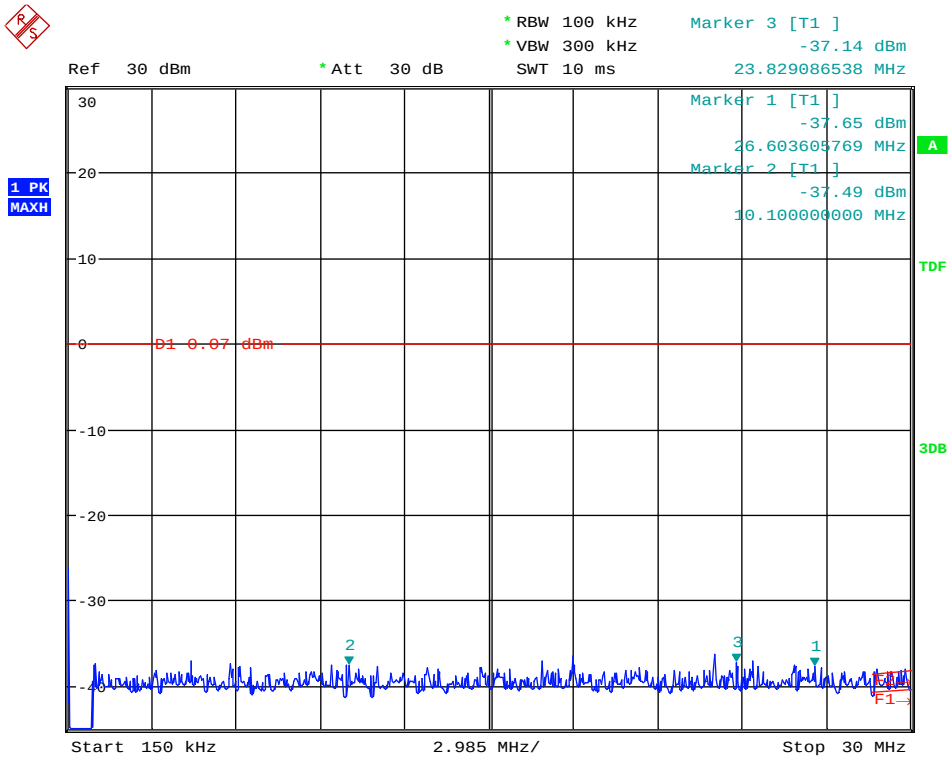
Plot 91: 20dBc-RCM24G-MSK-50Kbps-Ch69(2471.5 MHz)-PWR+12dBm-30MHz-2.8GHz



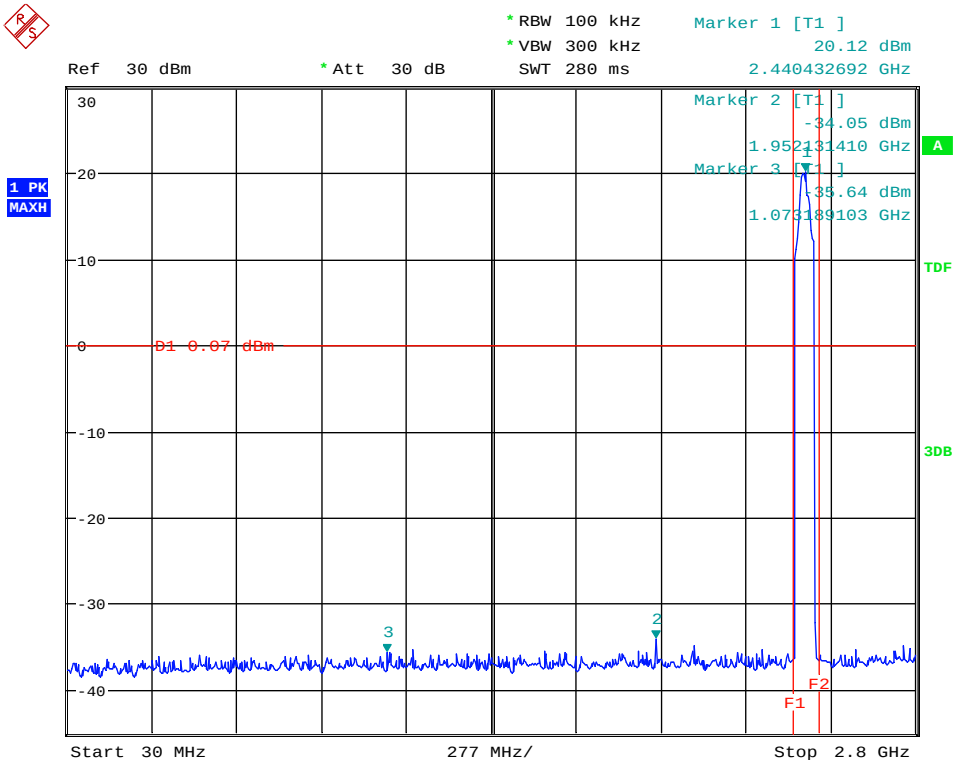
Plot 92: 20dBc-RCM24G-MSK-50Kbps-Ch69(2471.5 MHz)-PWR+12dBm-2.8GHz-25GHz



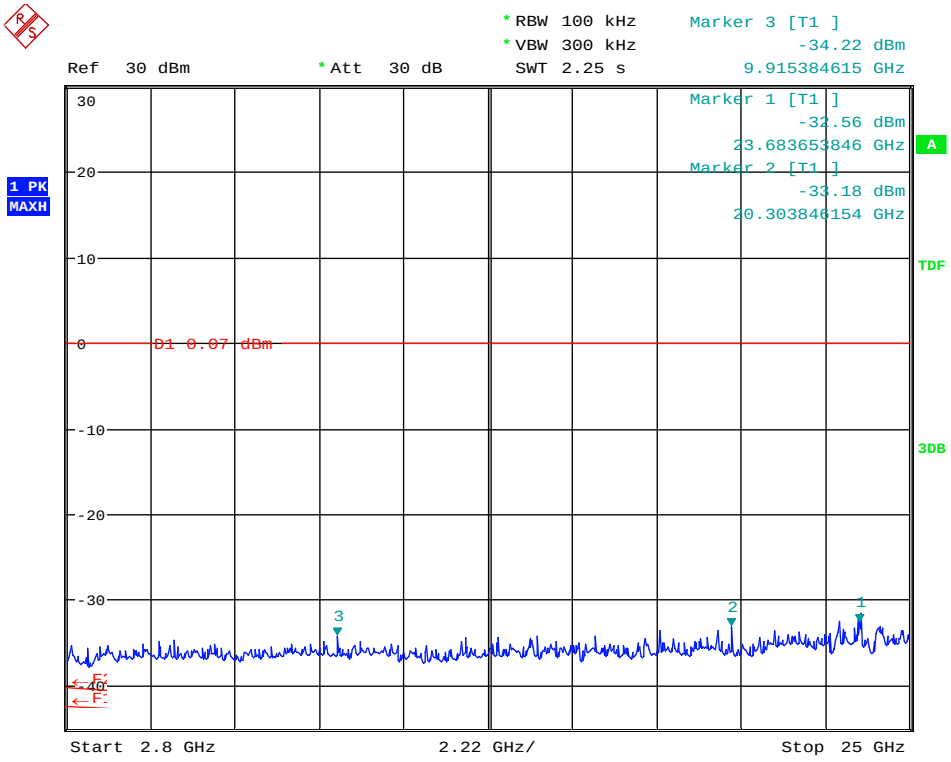
Plot 93: 20dBc-RCM24G-MSK-50Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-Carrier



Plot 94: 20dBc-RCM24G-MSK-50Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-0.15MHz-30MHz

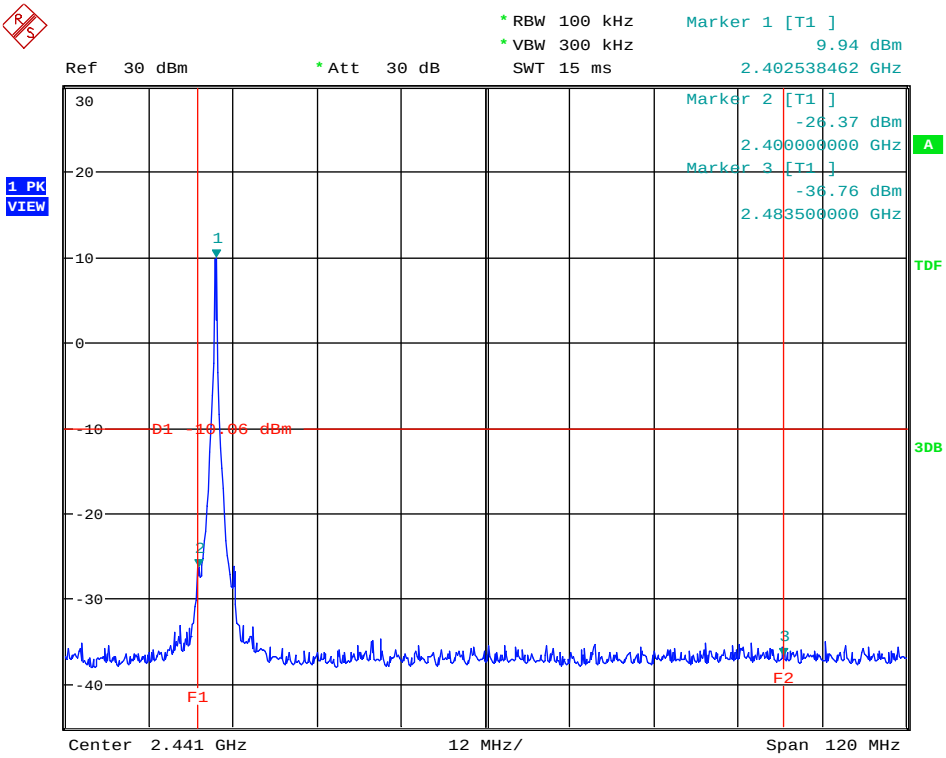


Plot 95: 20dBc-RCM24G-MSK-50Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-30MHz-2.8GHz

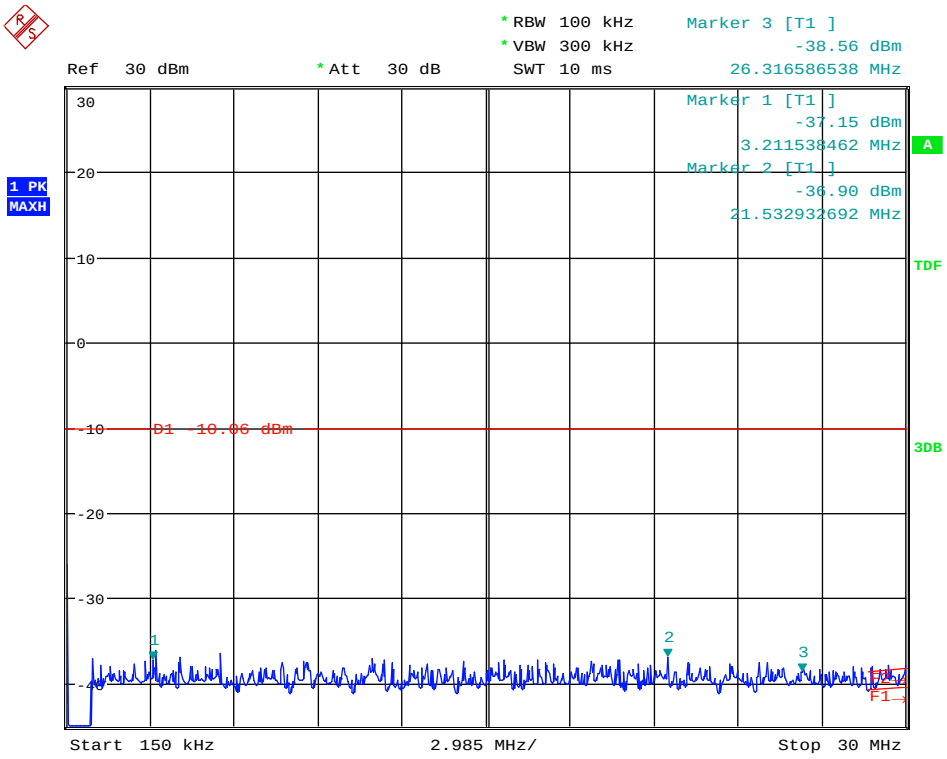


Plot 96: 20dBc-RCM24G-MSK-50Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-2.8GHz-25GHz

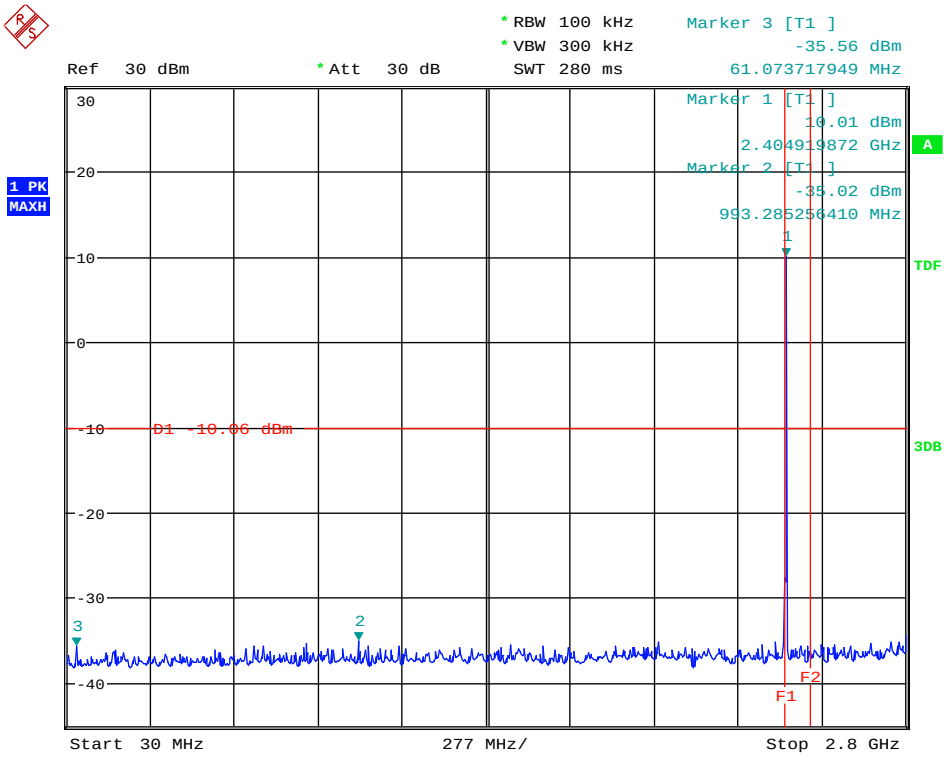
1.7.2. MSK-Data Rate 100Kbps



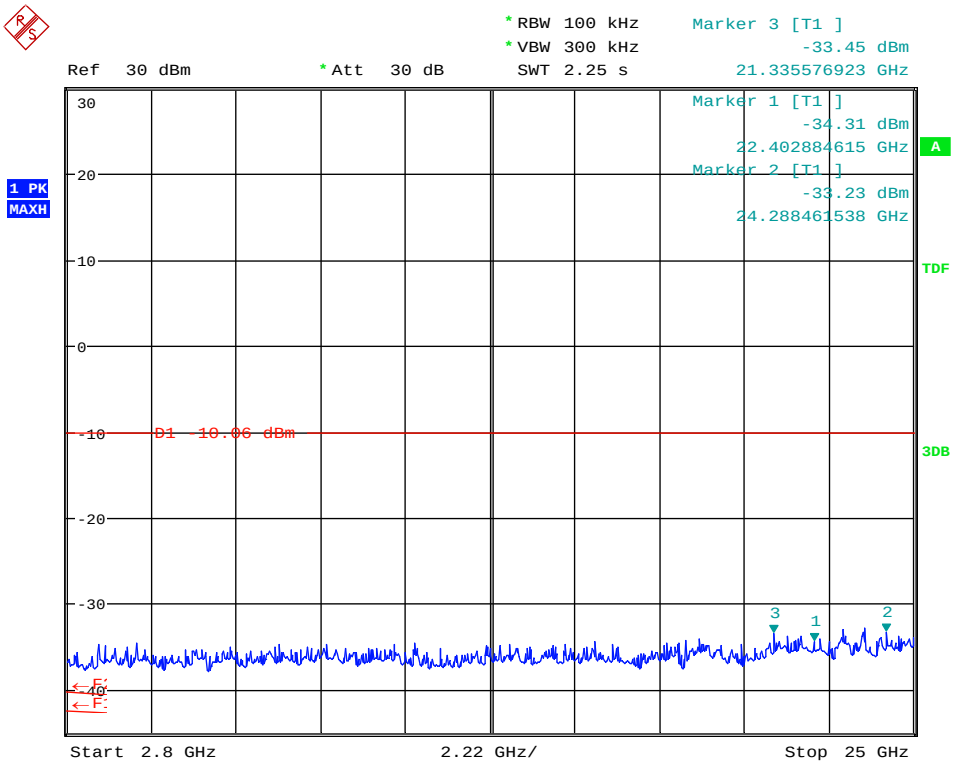
Plot 97: 20dBc-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm-Carrier



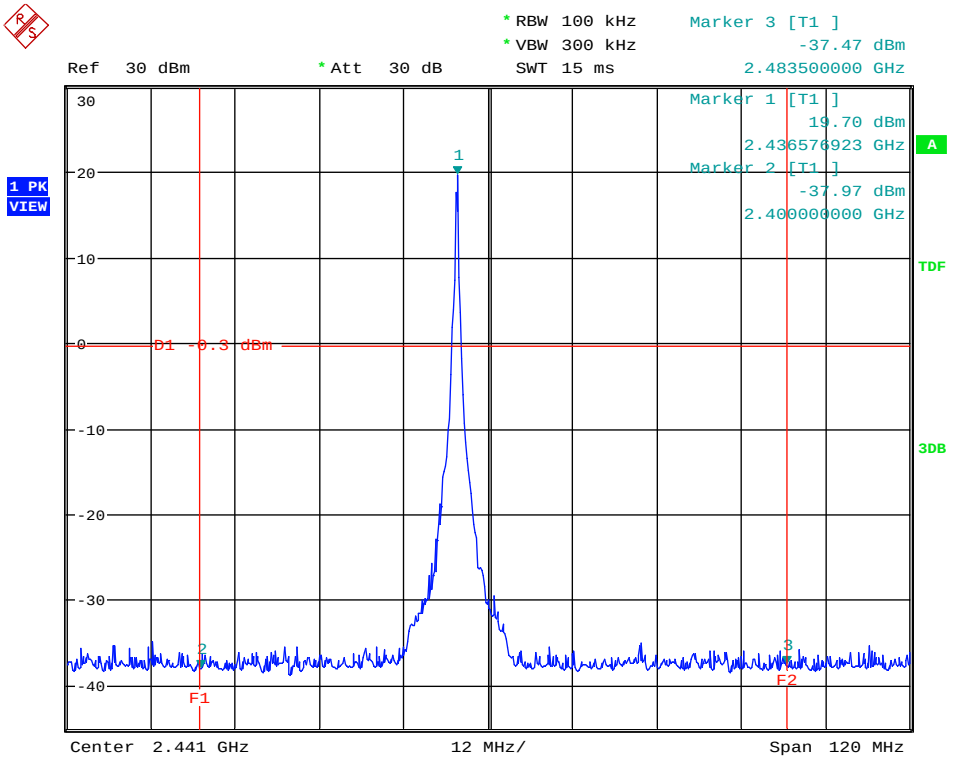
Plot 98: 20dBc-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm-0.15MHz-30MHz



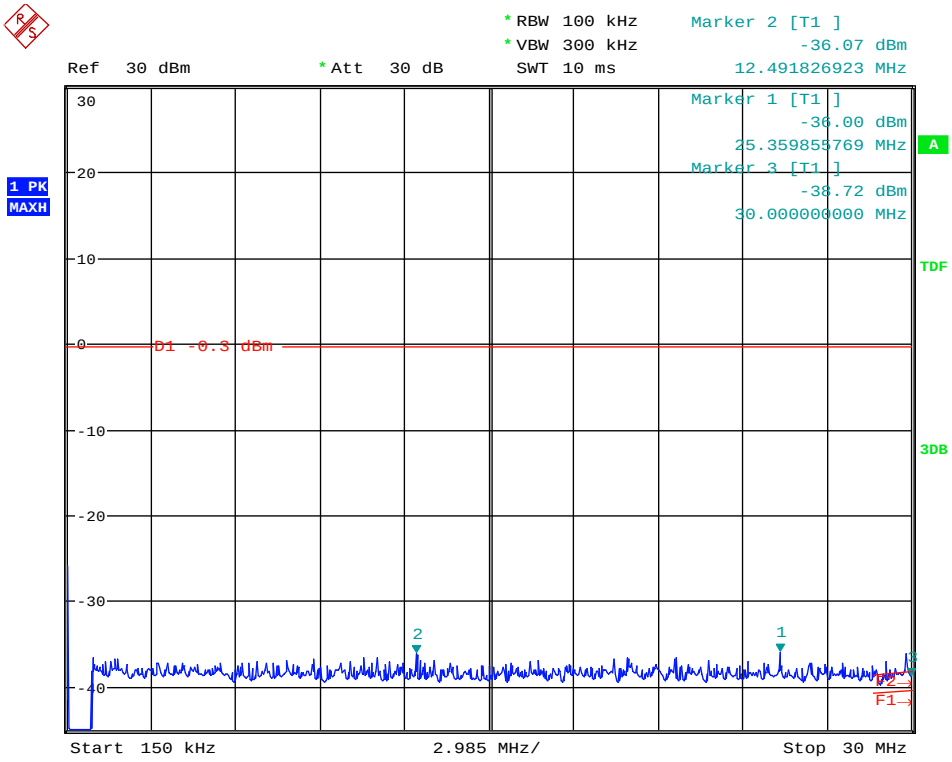
Plot 99: 20dBc-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm-30MHz-2.8GHz



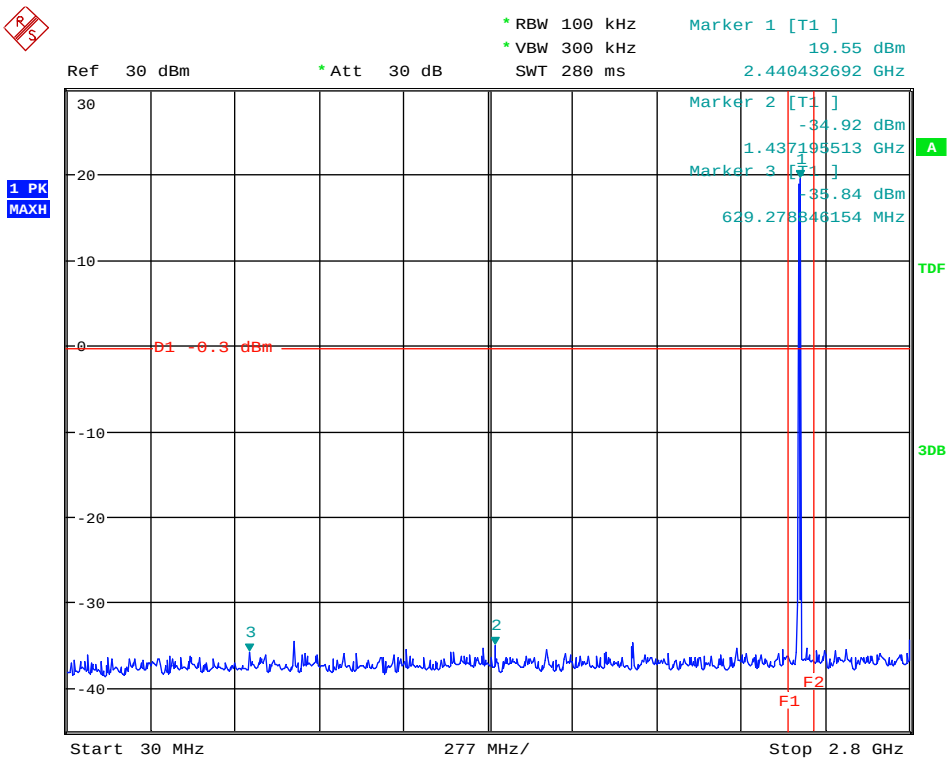
Plot 100: 20dBc-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm-2.8GHz-25GHz



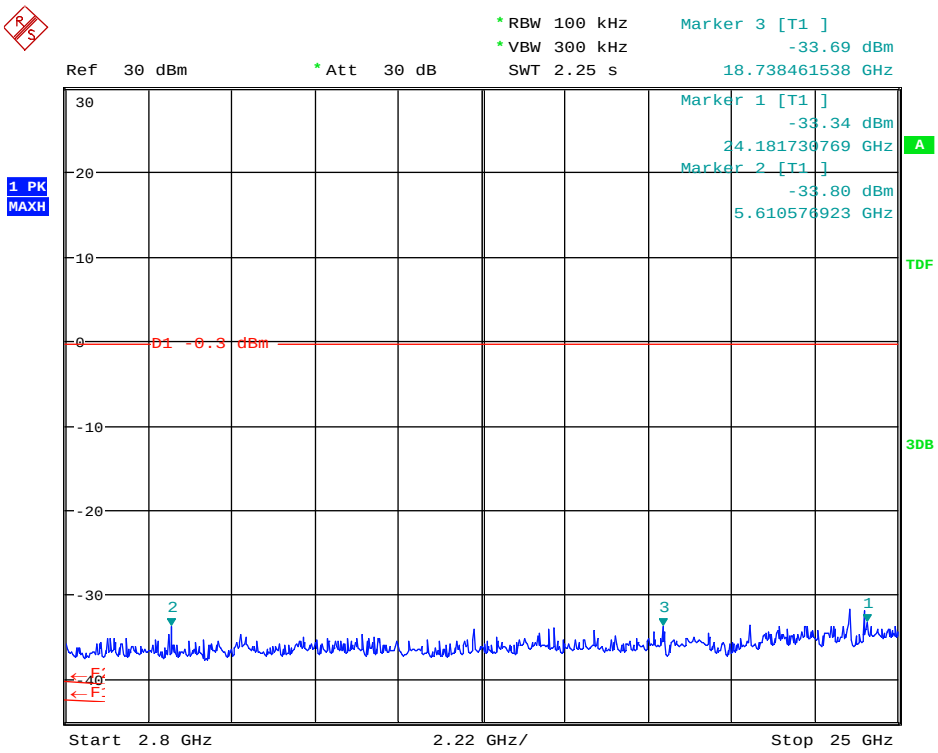
Plot 101: 20dBc-RCM24G-MSK-100Kbps-Ch34(2436.5 MHz)-PWR+21dBm-Carrier



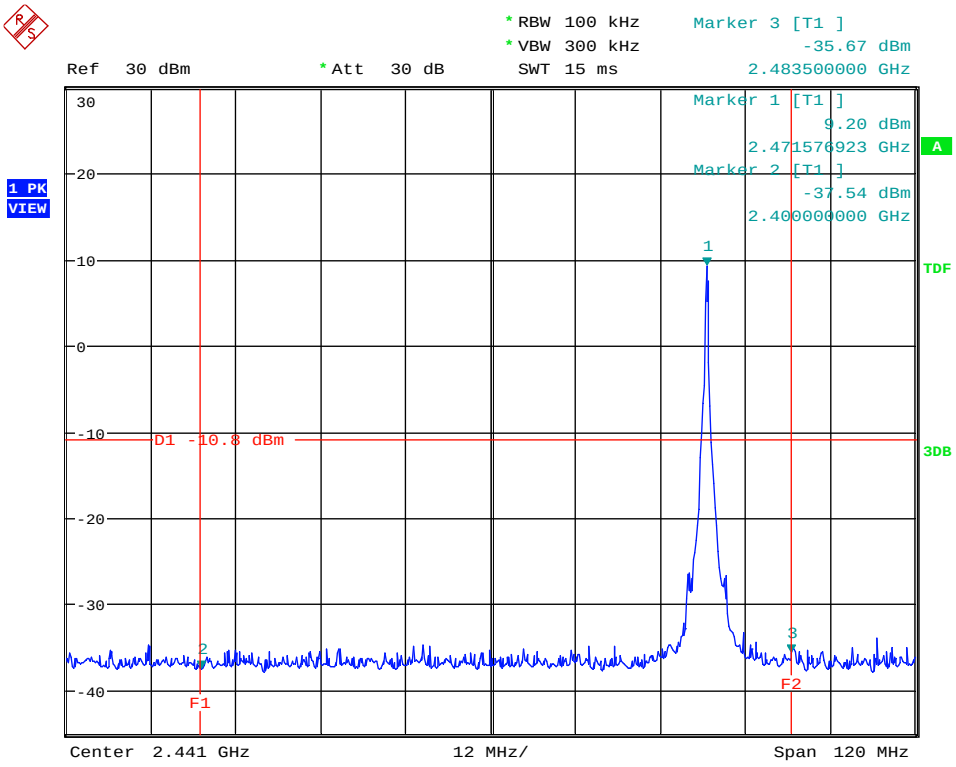
Plot 102: 20dBc-RCM24G-MSK-100Kbps- Ch34(2436.5 MHz)-PWR+21dBm-0.15MHz-30MHz



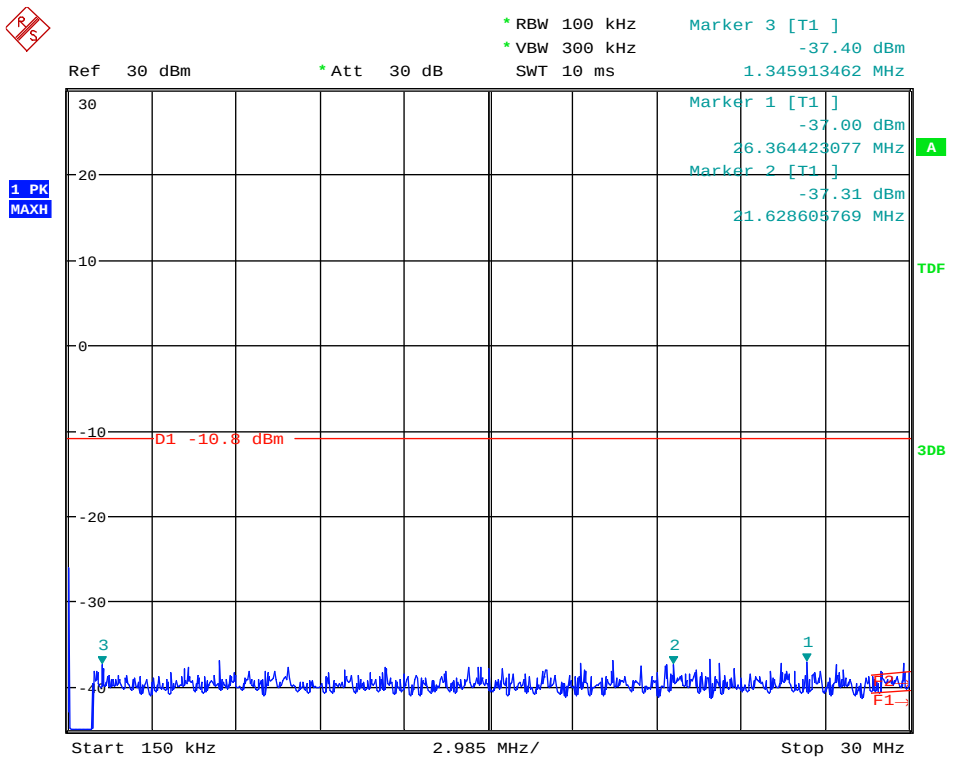
Plot 103: 20dBc-RCM24G-MSK-100Kbps-Ch34(2436.5 MHz)-PWR+21dBm-30MHz-2.8GHz



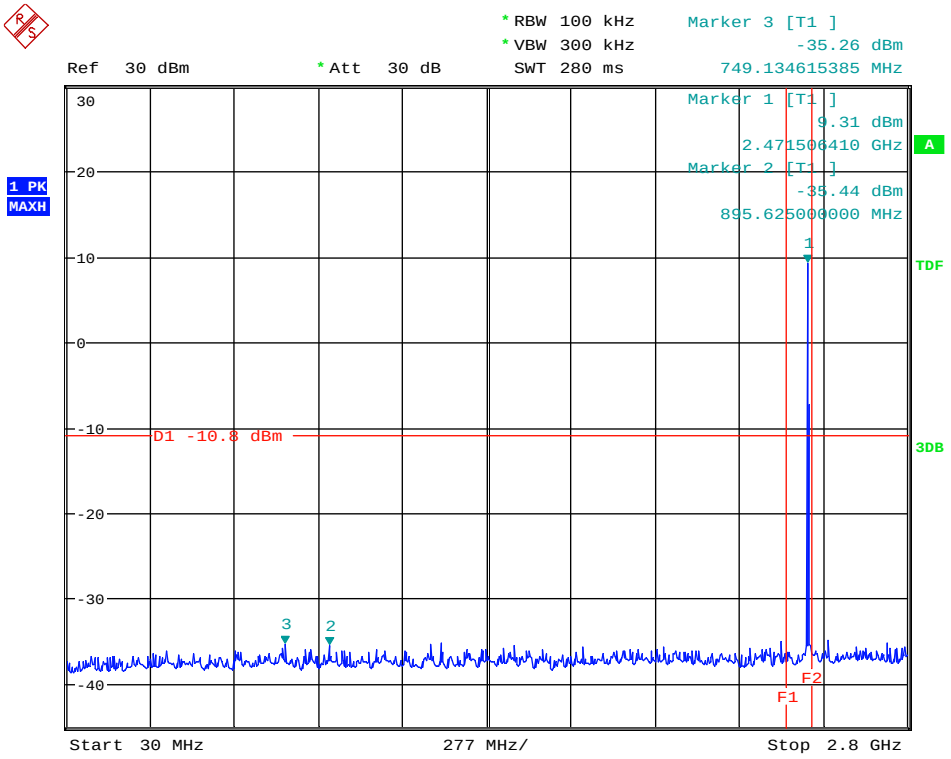
Plot 104: 20dBc-RCM24G-MSK-100Kbps-Ch34(2436.5 MHz)-PWR+21dBm-2.8GHz-25GHz



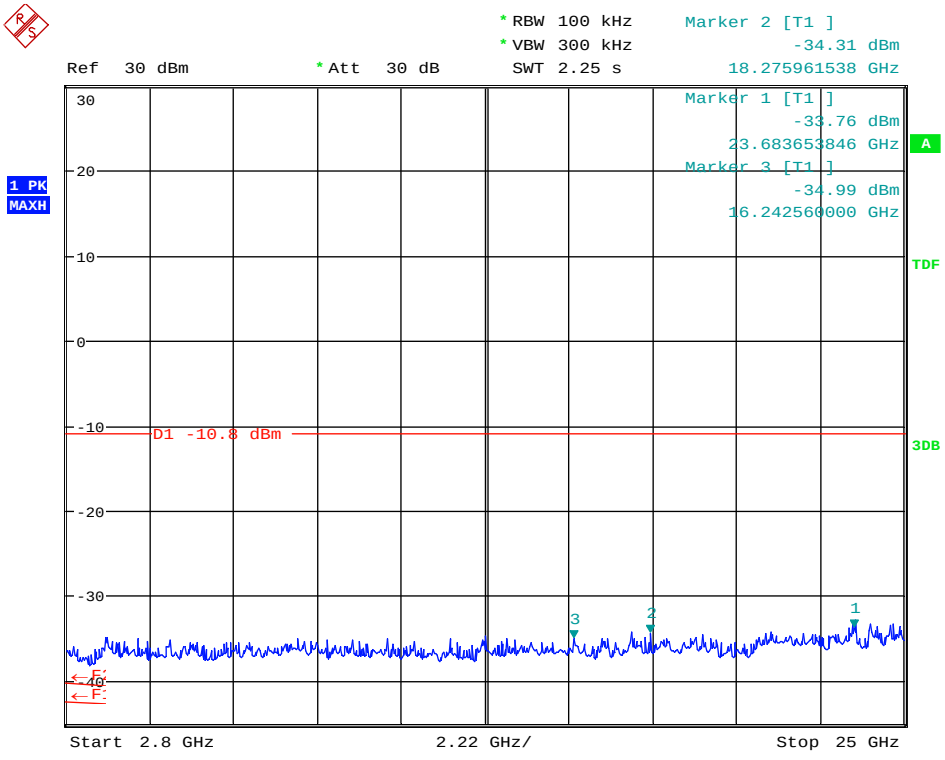
Plot 105: 20dBc-RCM24G-MSK-100Kbps-Ch69(2471.5 MHz)-PWR+12dBm-Carrier



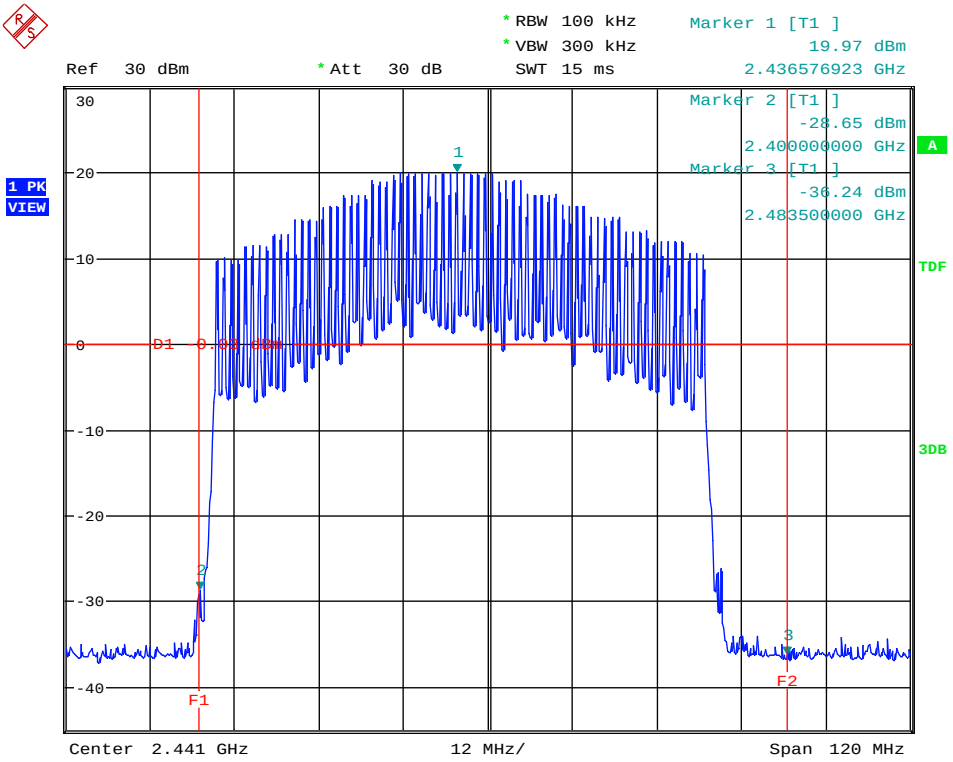
Plot 106: 20dBc-RCM24G-MSK-100Kbps- Ch69(2471.5 MHz)-PWR+12dBm-0.15MHz-30MHz



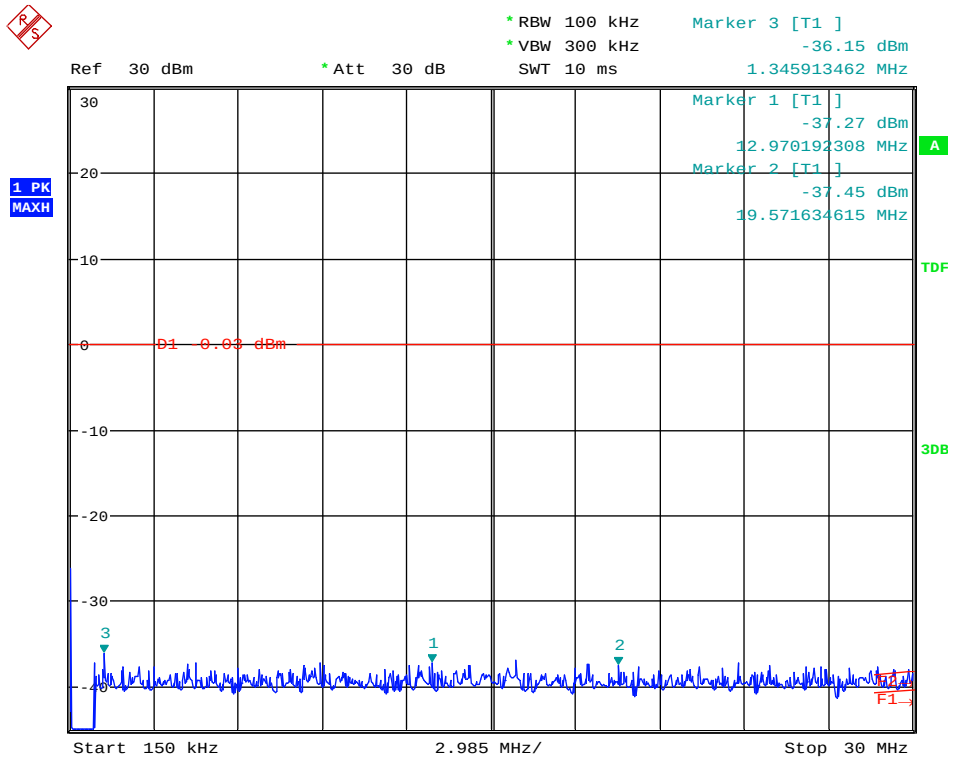
Plot 107: 20dBc-RCM24G-MSK-100Kbps-Ch69(2471.5 MHz)-PWR+12dBm-30MHz-2.8GHz



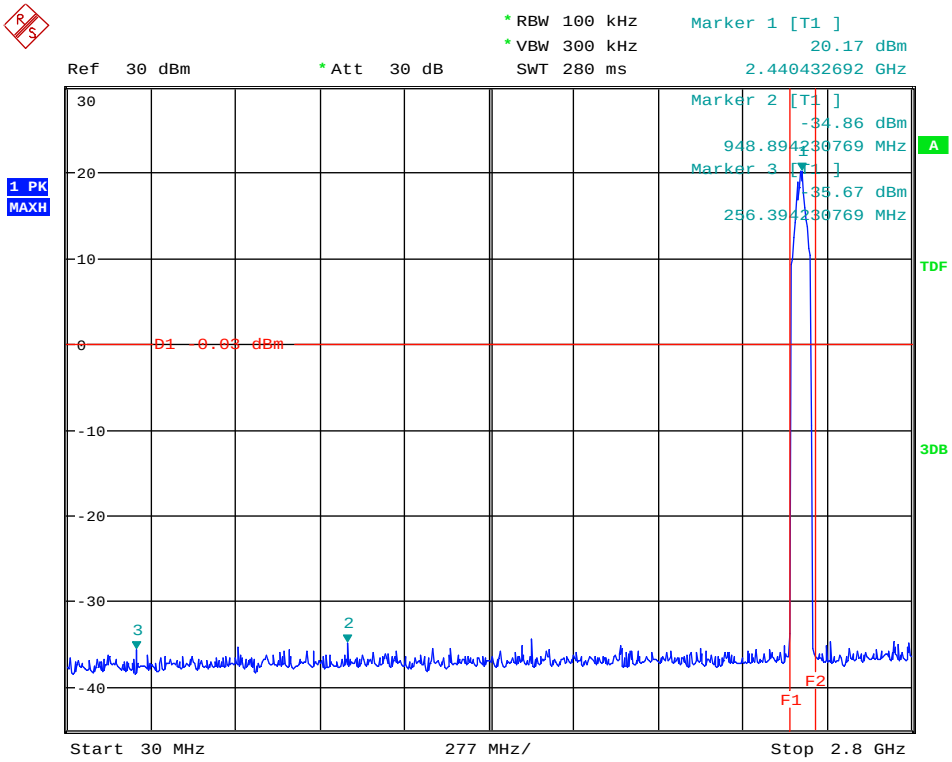
Plot 108: 20dBc-RCM24G-MSK-100Kbps-Ch69(2471.5 MHz)-PWR+12dBm-2.8GHz-25GHz



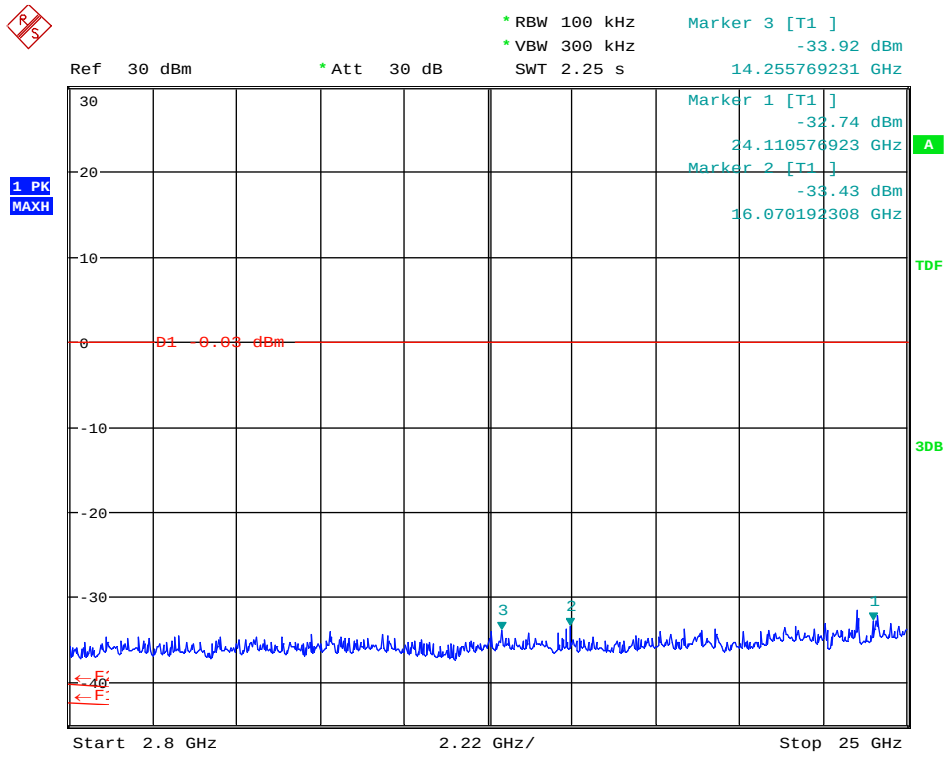
Plot 109: 20dBc-RCM24G-MSK-100Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-Carrier



Plot 110: 20dBc-RCM24G-MSK-100Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-0.15MHz-30MHz

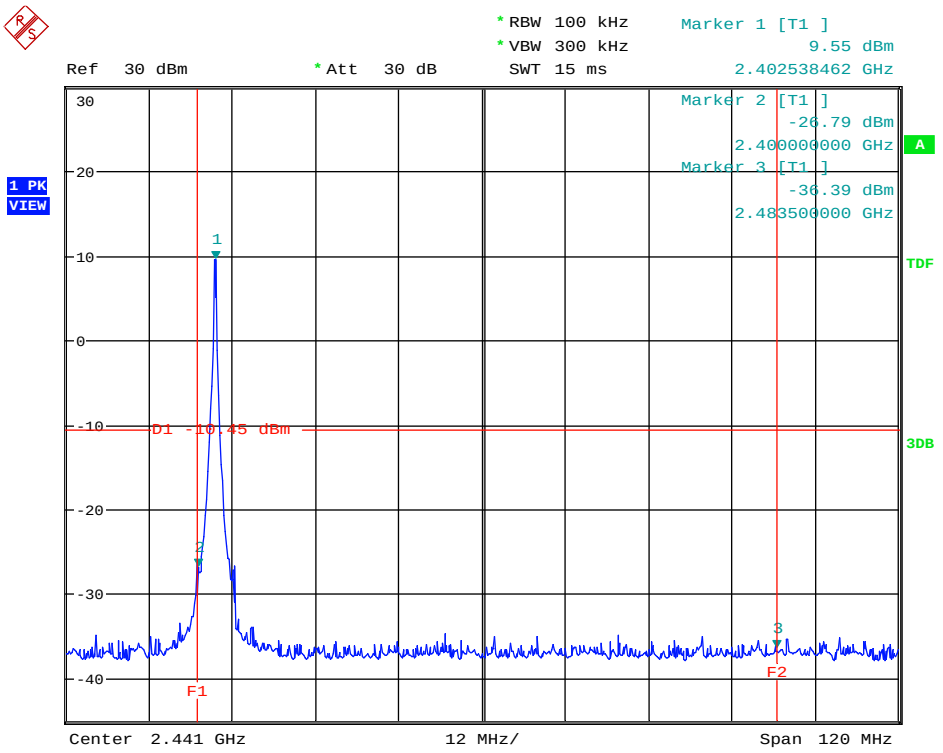


Plot 111: 20dBc-RCM24G-MSK-100Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-30MHz-2.8GHz

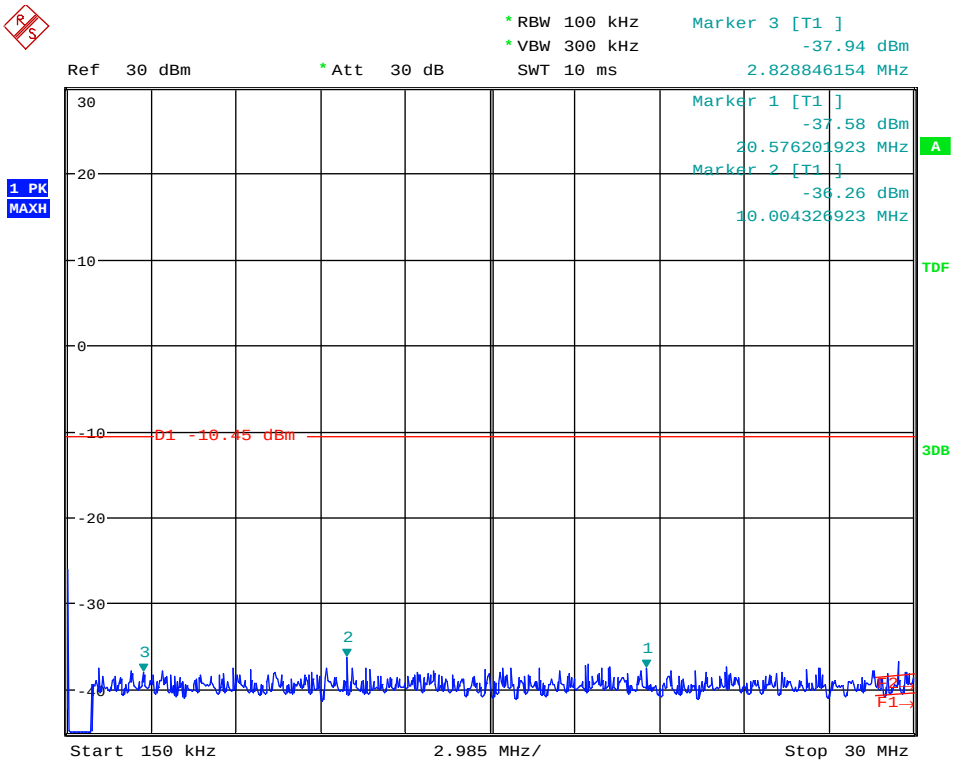


Plot 112: 20dBc-RCM24G-MSK-100Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-2.8GHz-25GHz

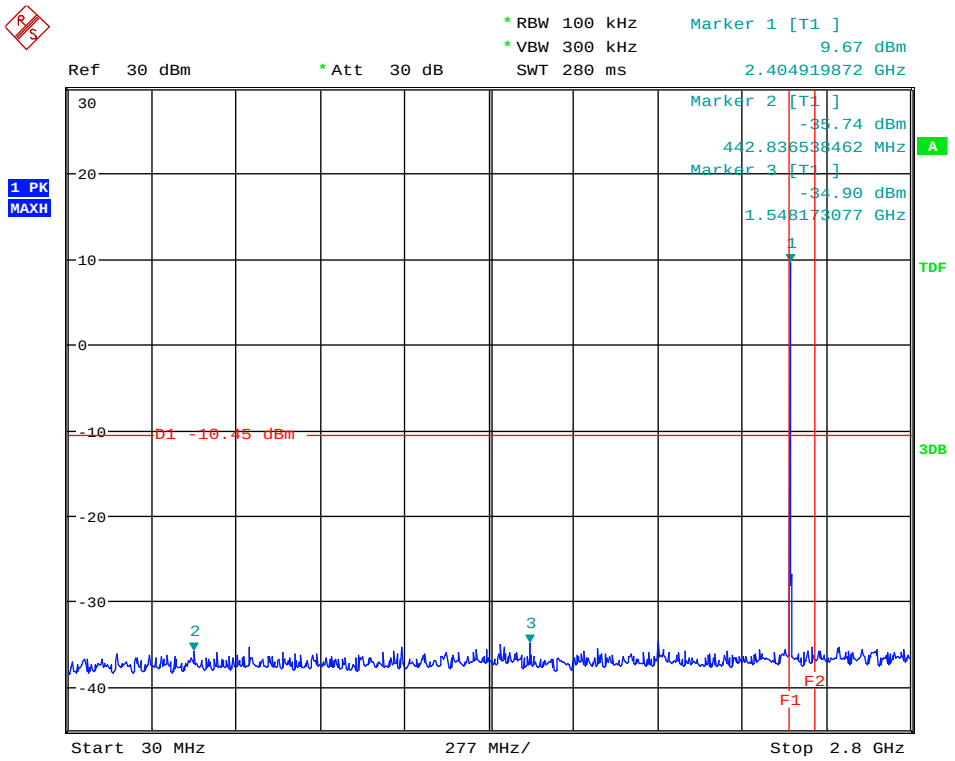
1.7.3. MSK-Data Rate 250Kbps



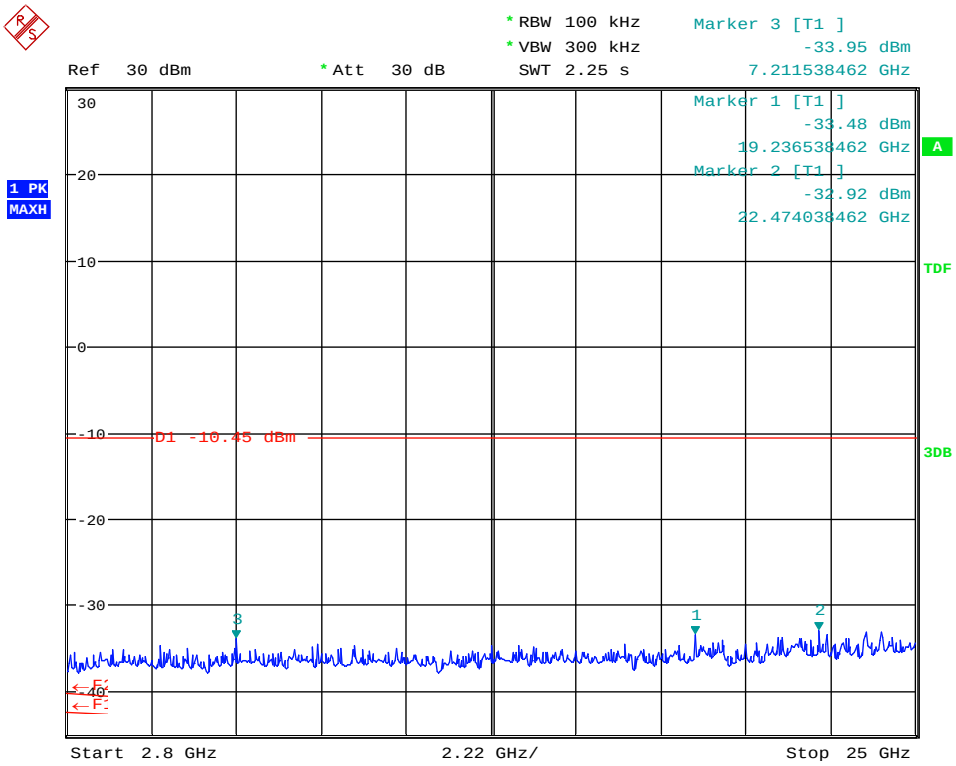
Plot 113: 20dBc-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm-Carrier



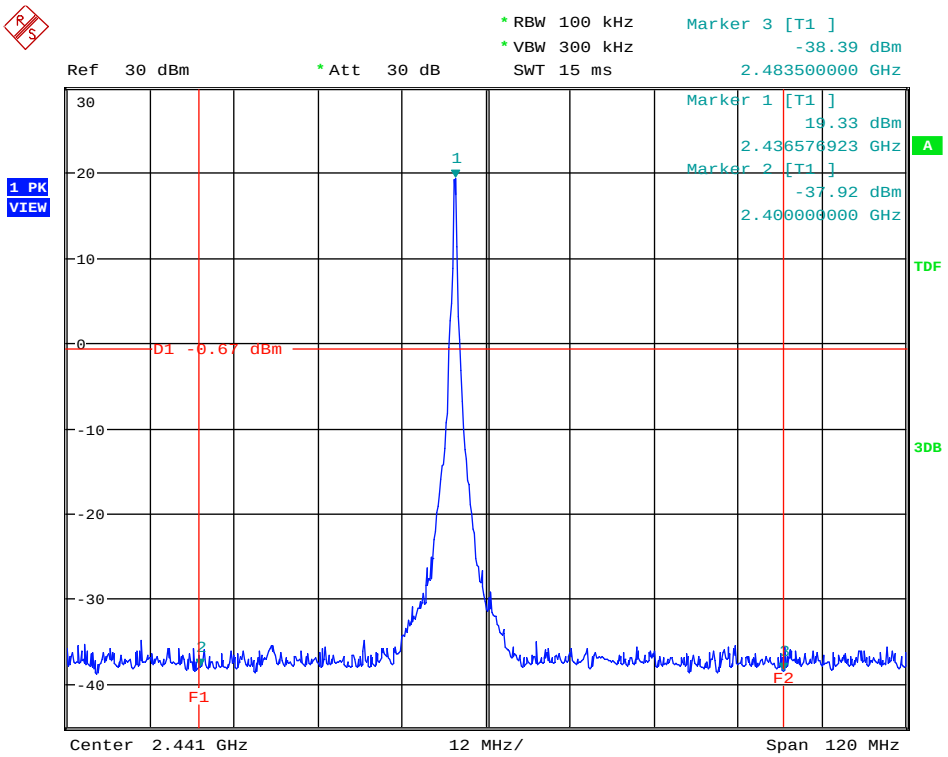
Plot 114: 20dBc-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm-0.15MHz-30MHz



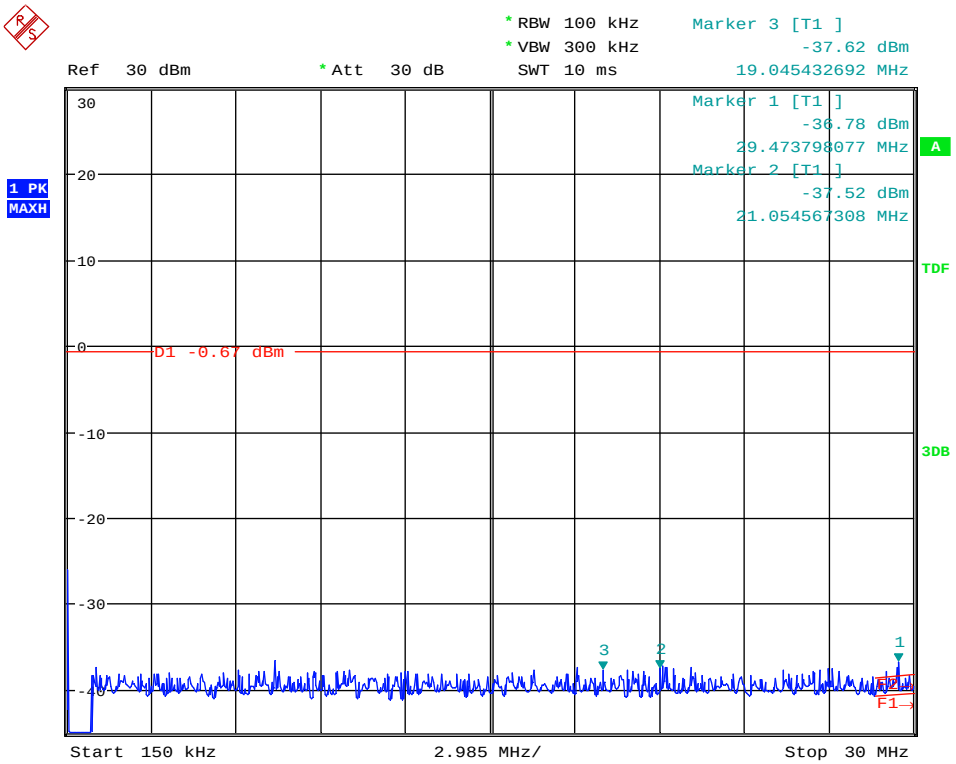
Plot 115: 20dBc-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm-30MHz-2.8GHz



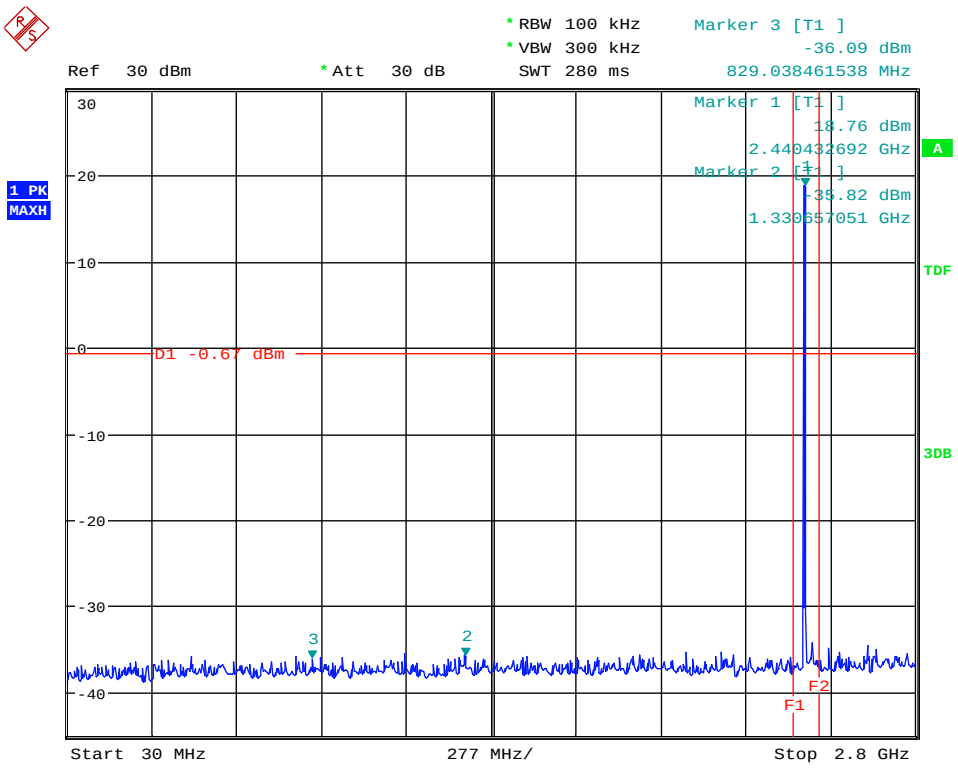
Plot 116: 20dBc-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm-2.8GHz-25GHz



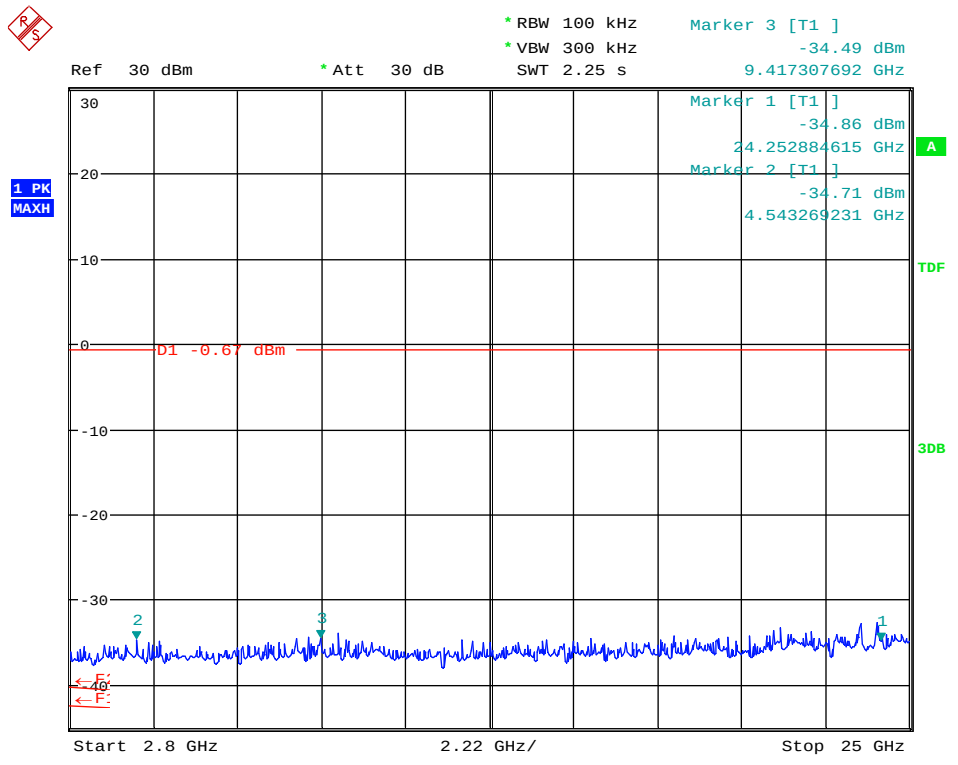
Plot 117: 20dBc-RCM24G-MSK-250Kbps-Ch34(2436.5 MHz)-PWR+21dBm-Carrier



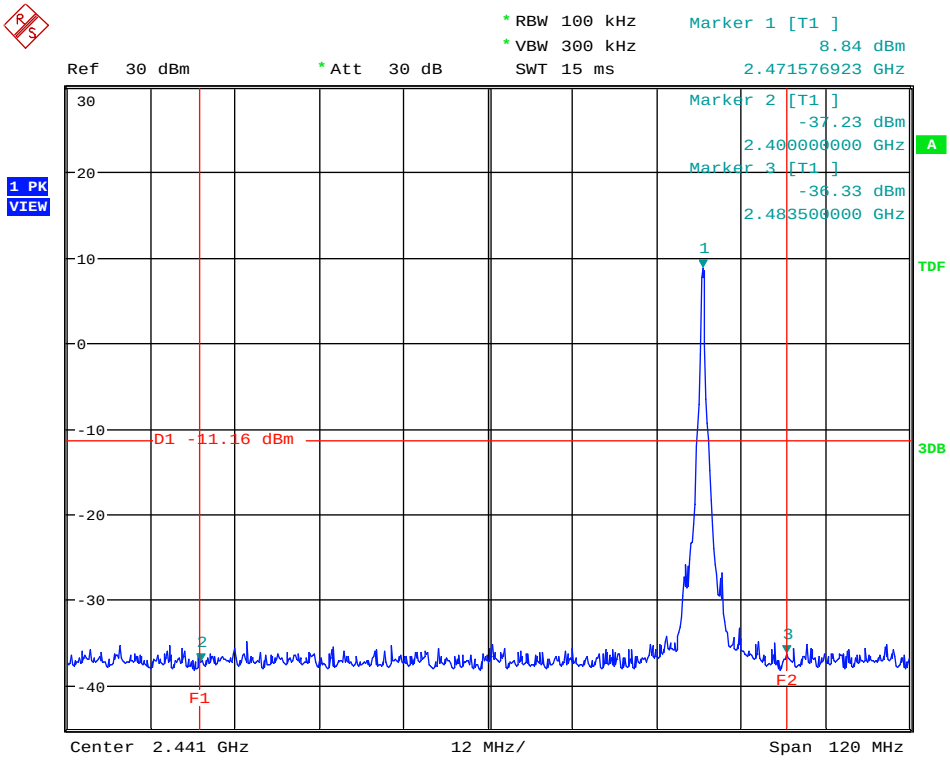
Plot 118: 20dBc-RCM24G-MSK-250Kbps- Ch34(2436.5 MHz)-PWR+21dBm-0.15MHz-30MHz



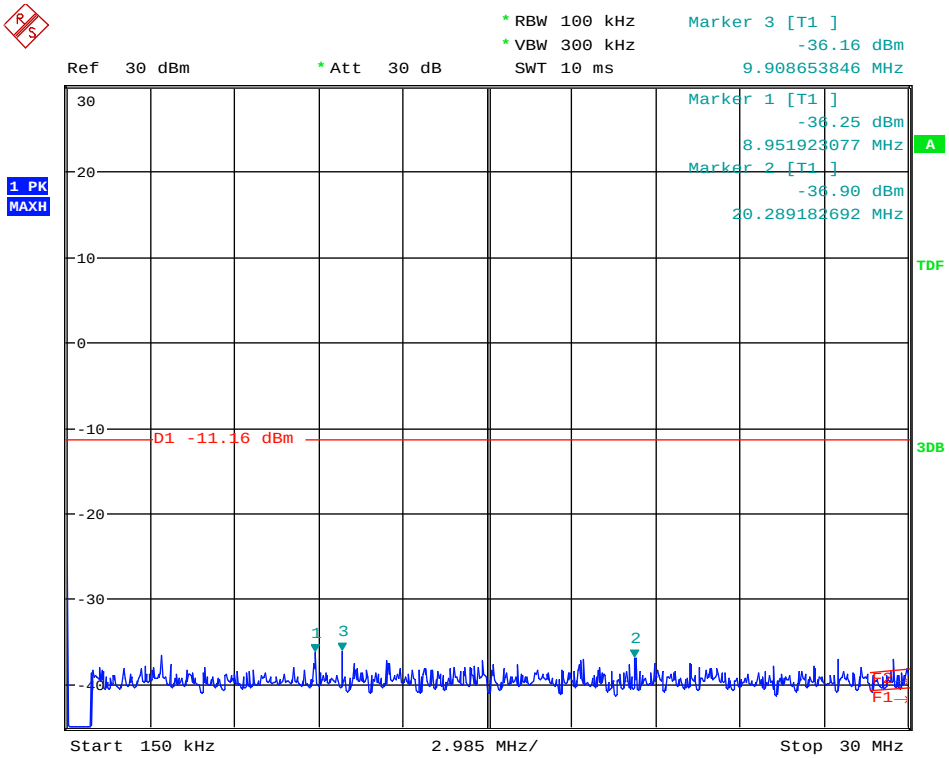
Plot 119: 20dBc-RCM24G-MSK-250Kbps-Ch34(2436.5 MHz)-PWR+21dBm-30MHz-2.8GHz



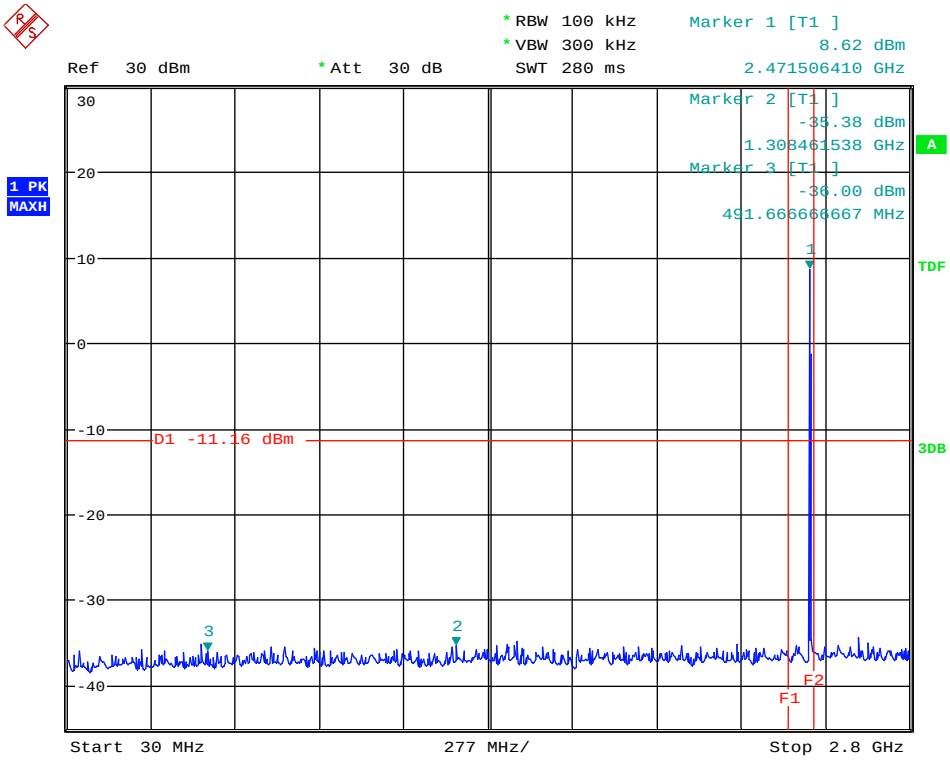
Plot 120: 20dBc-RCM24G-MSK-250Kbps-Ch34(2436.5 MHz)-PWR+21dBm-2.8GHz-25GHz



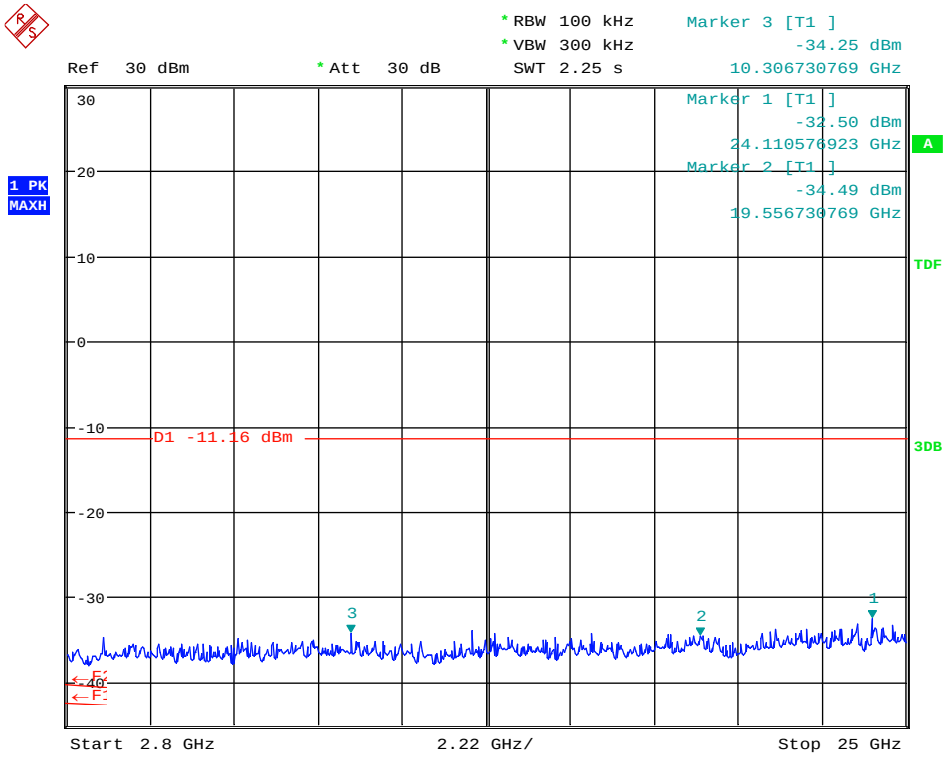
Plot 121: 20dBc-RCM24G-MSK-250Kbps-Ch69(2471.5 MHz)-PWR+12dBm-Carrier



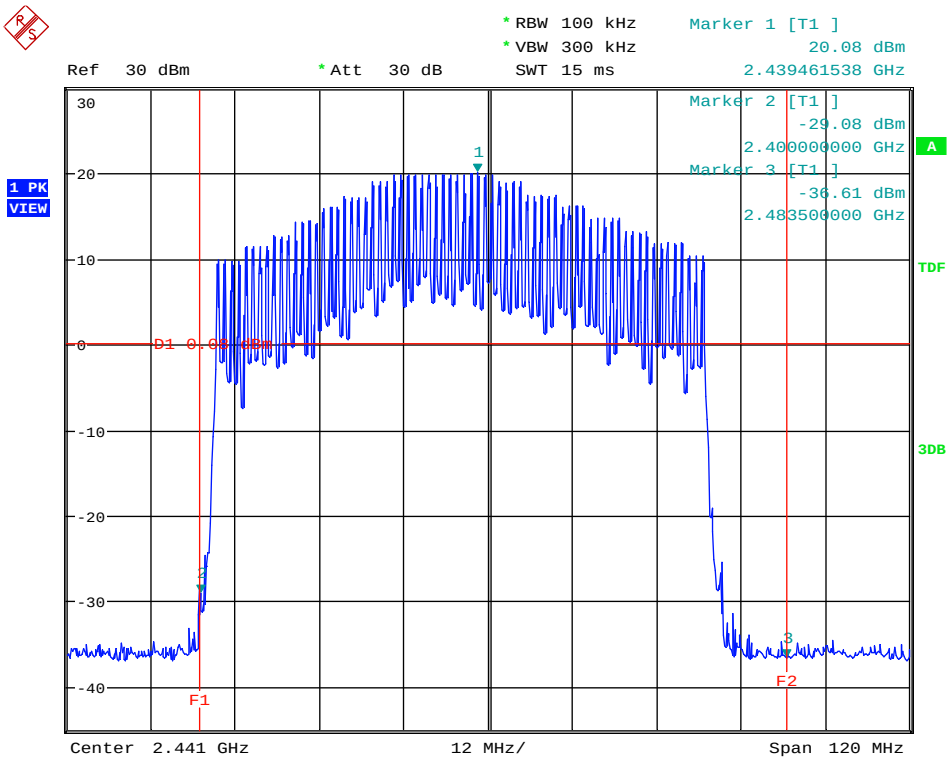
Plot 122: 20dBc-RCM24G-MSK-250Kbps- Ch69(2471.5 MHz)-PWR+12dBm-0.15MHz-30MHz



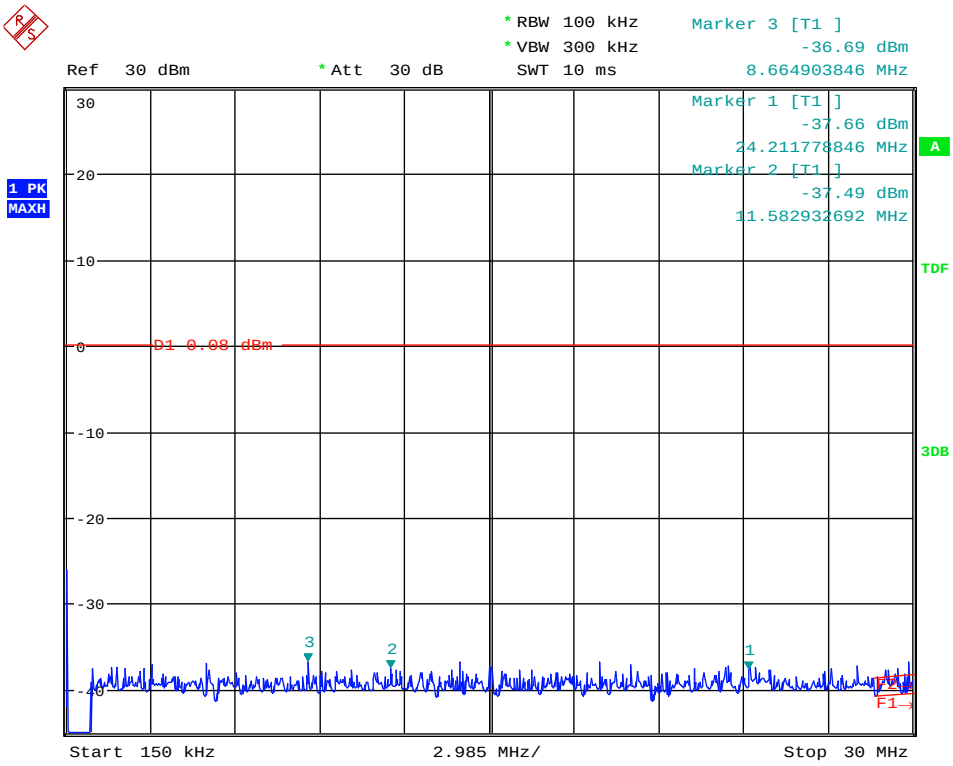
Plot 123: 20dBc-RCM24G-MSK-250Kbps-Ch69(2471.5 MHz)-PWR+12dBm-30MHz-2.8GHz



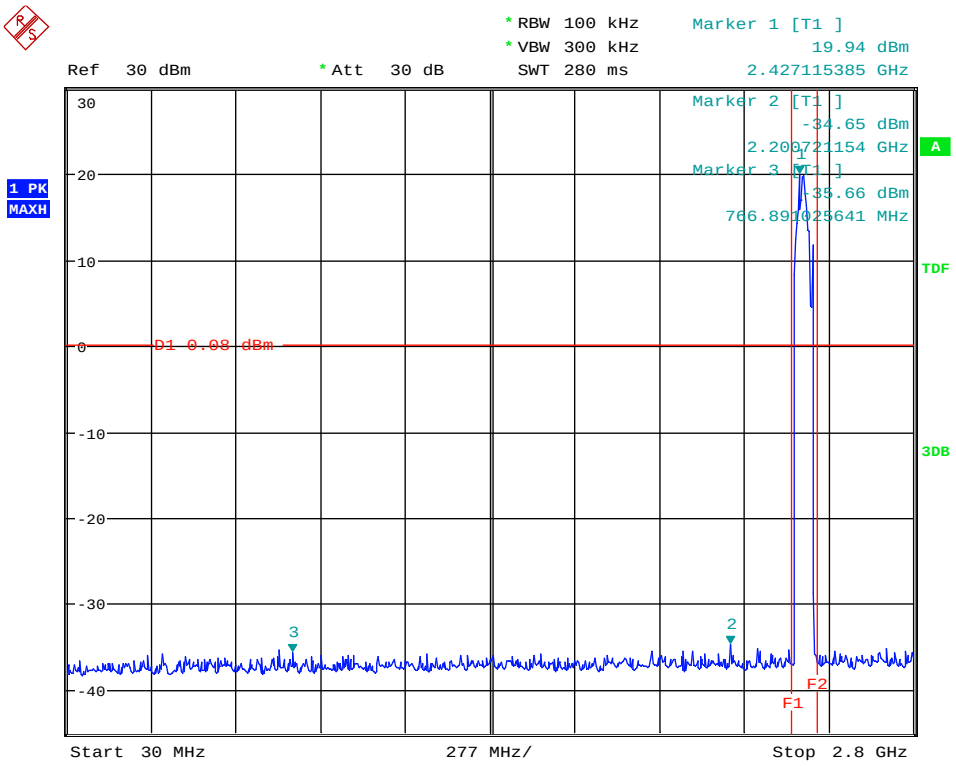
Plot 124: 20dBc-RCM24G-MSK-250Kbps-Ch69(2471.5 MHz)-PWR+12dBm-2.8GHz-25GHz



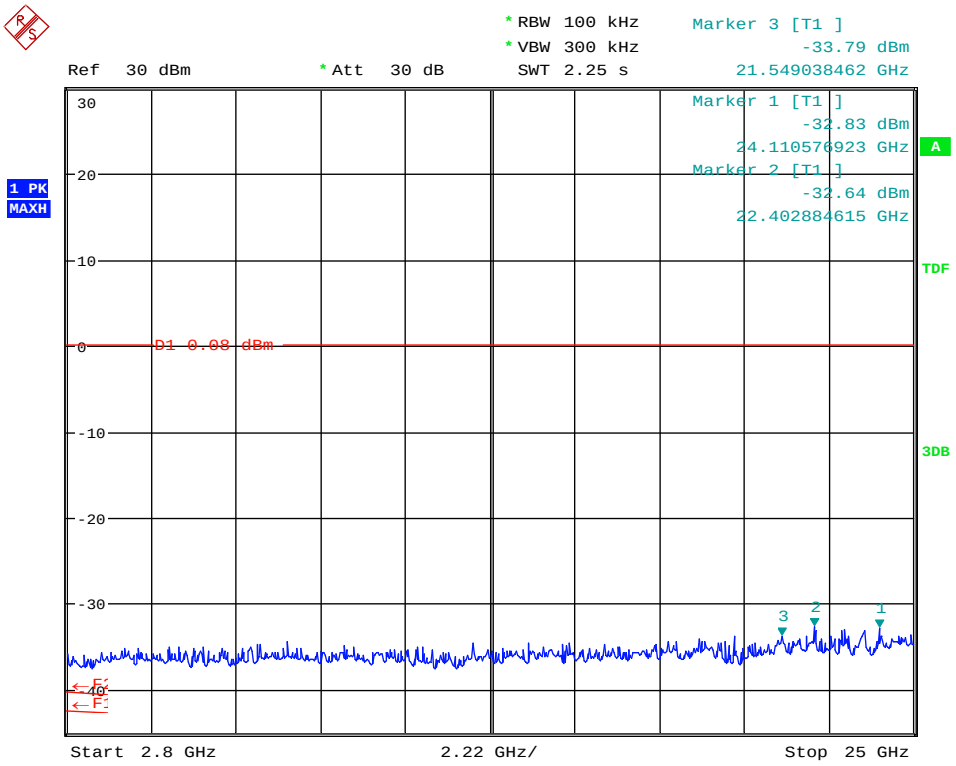
Plot 125: 20dBc-RCM24G-MSK-250Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-Carrier



Plot 126: 20dBc-RCM24G-MSK-250Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-0.15MHz-30MHz

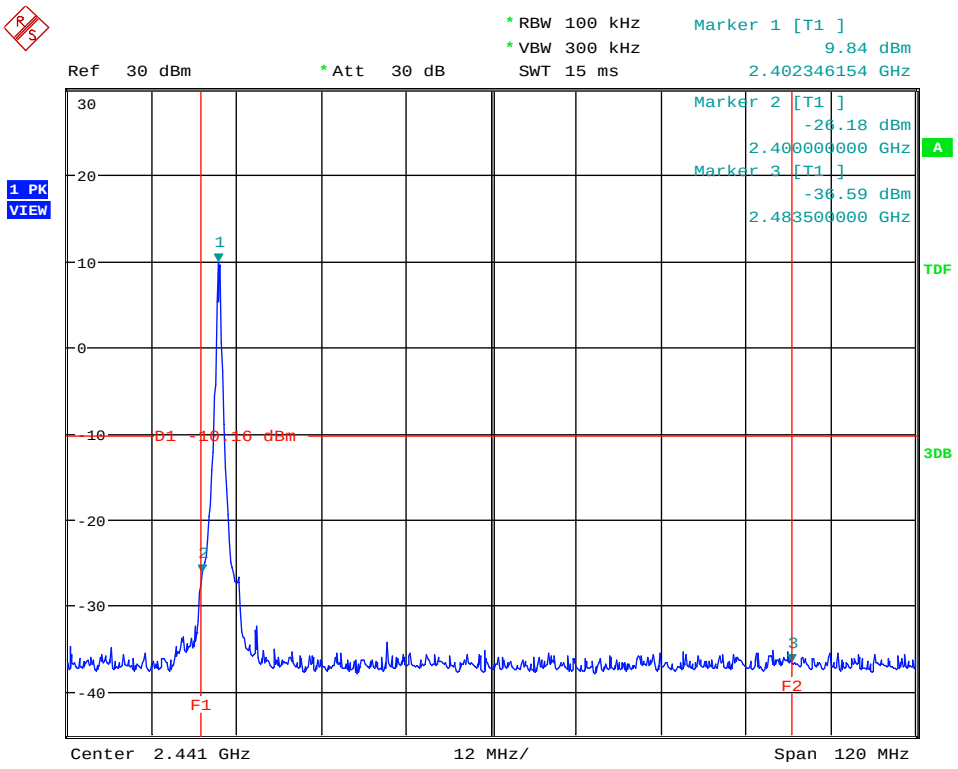


Plot 127: 20dBc-RCM24G-MSK-250Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-30MHz-2.8GHz

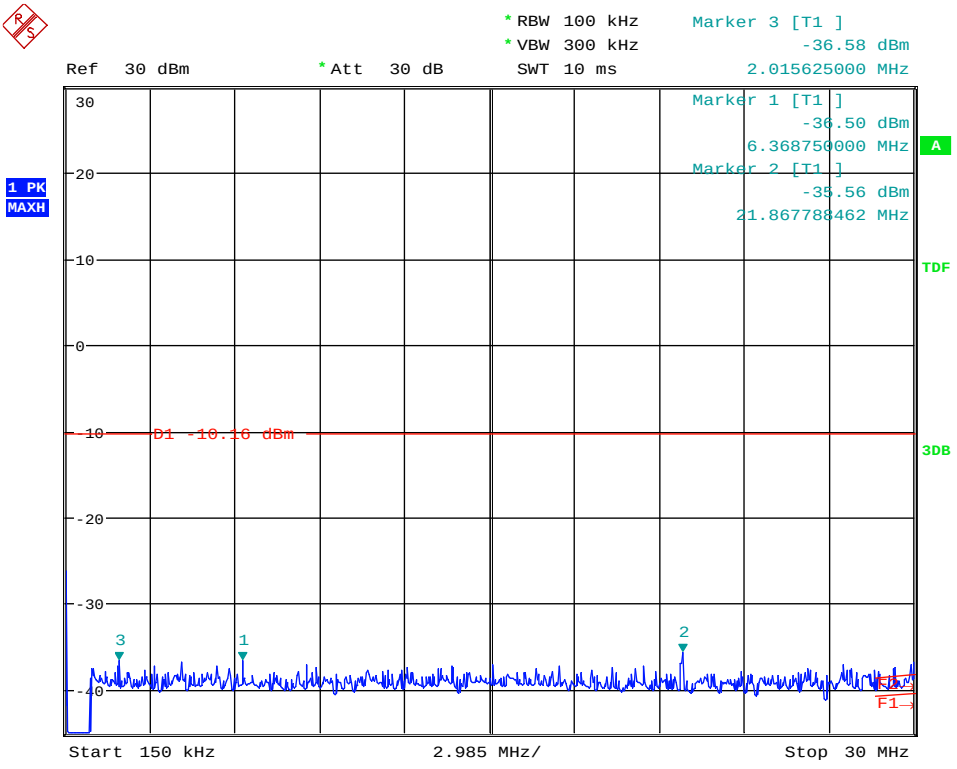


Plot 128: 20dBc-RCM24G-MSK-250Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-2.8GHz-25GHz

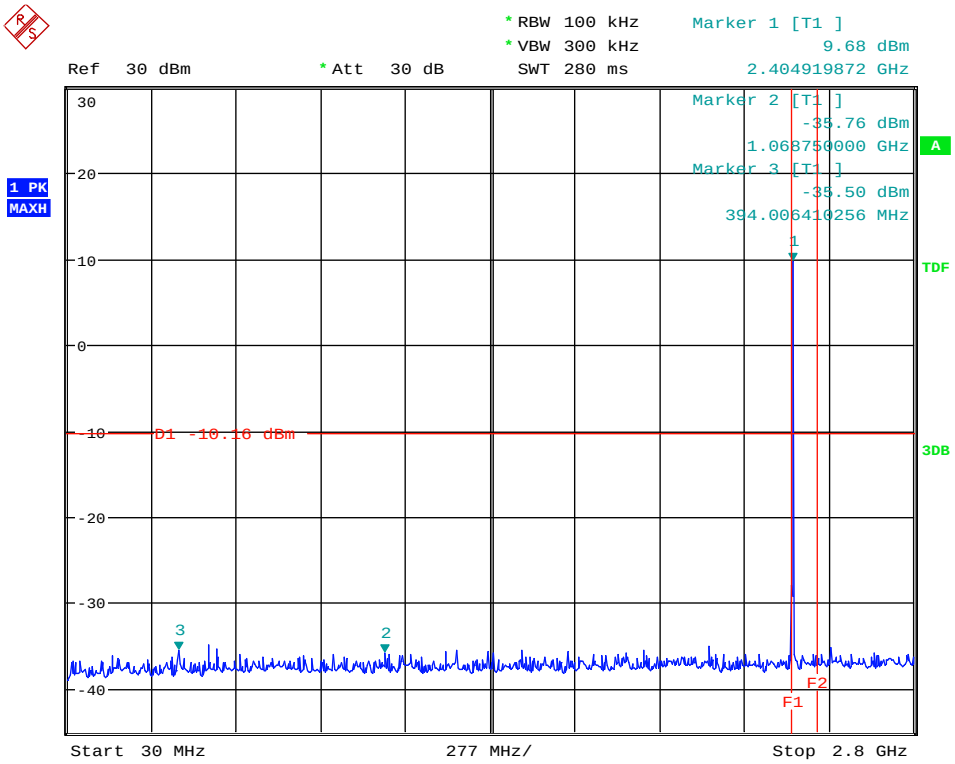
1.7.4. MSK-Data Rate 500Kbps



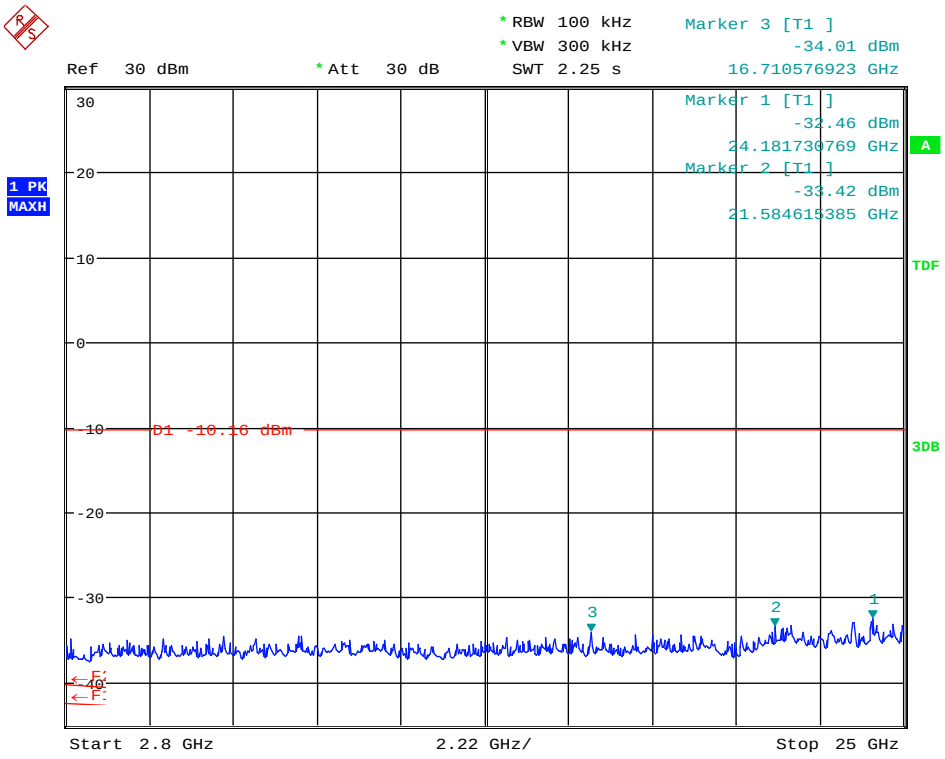
Plot 129: 20dBc-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm-Carrier



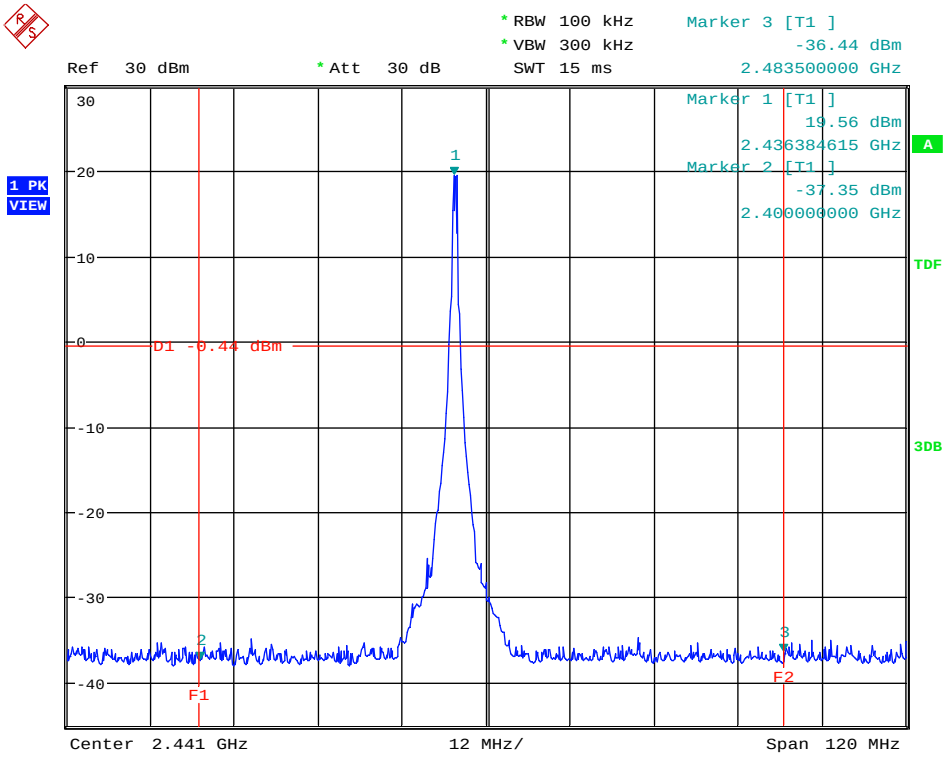
Plot 130: 20dBc-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm-0.15MHz-30MHz



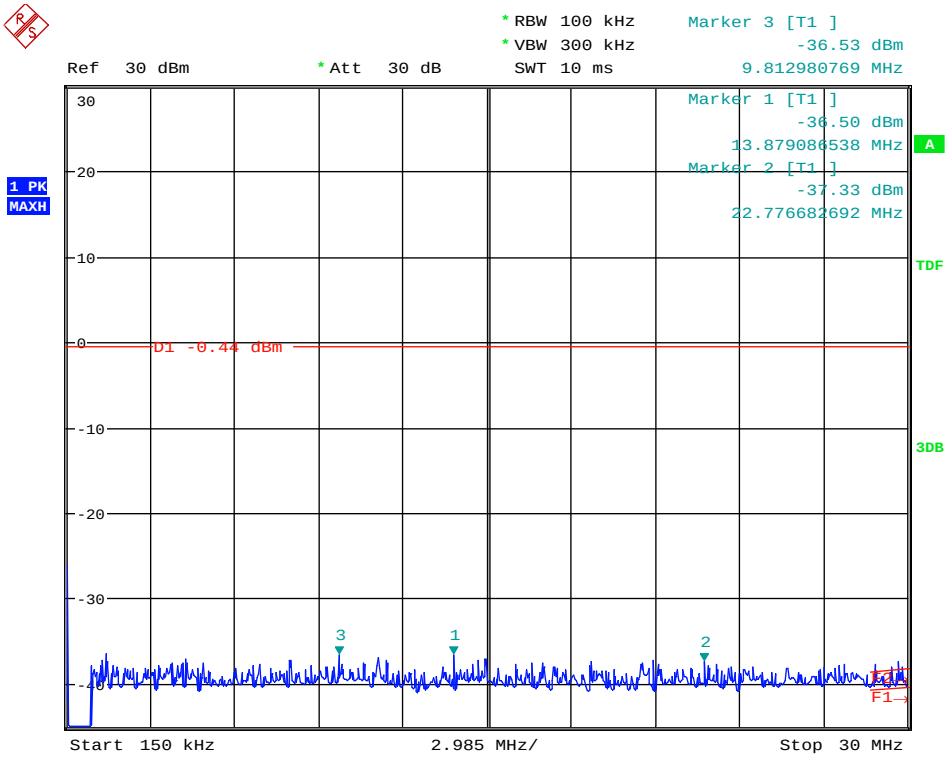
Plot 131: 20dBc-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm-30MHz-2.8GHz



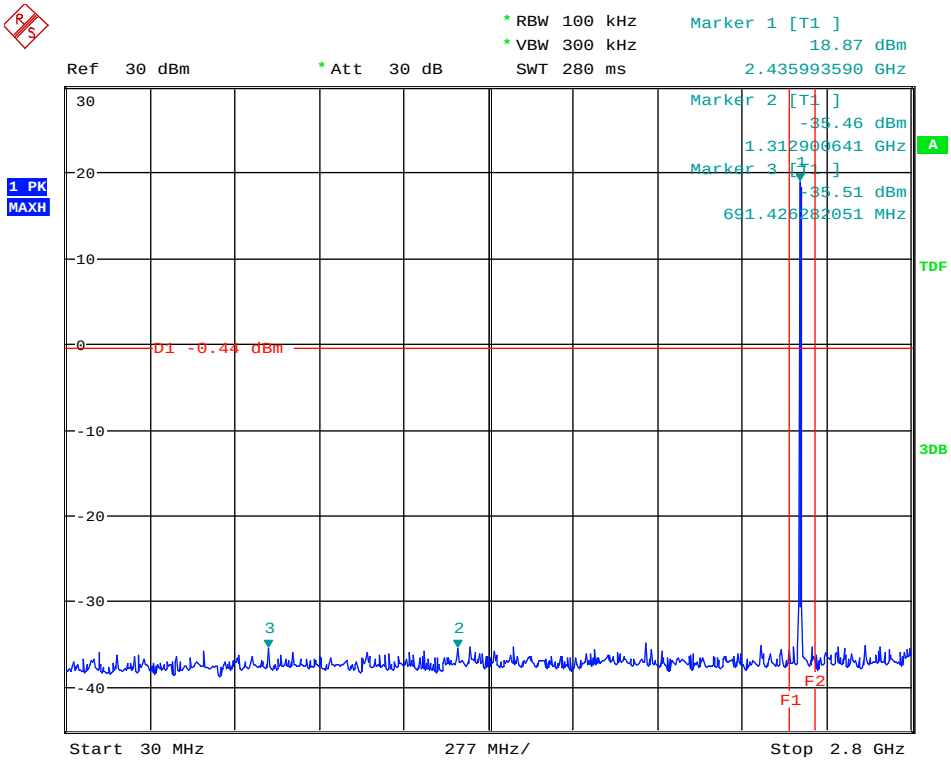
Plot 132: 20dBc-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm-2.8GHz-25GHz



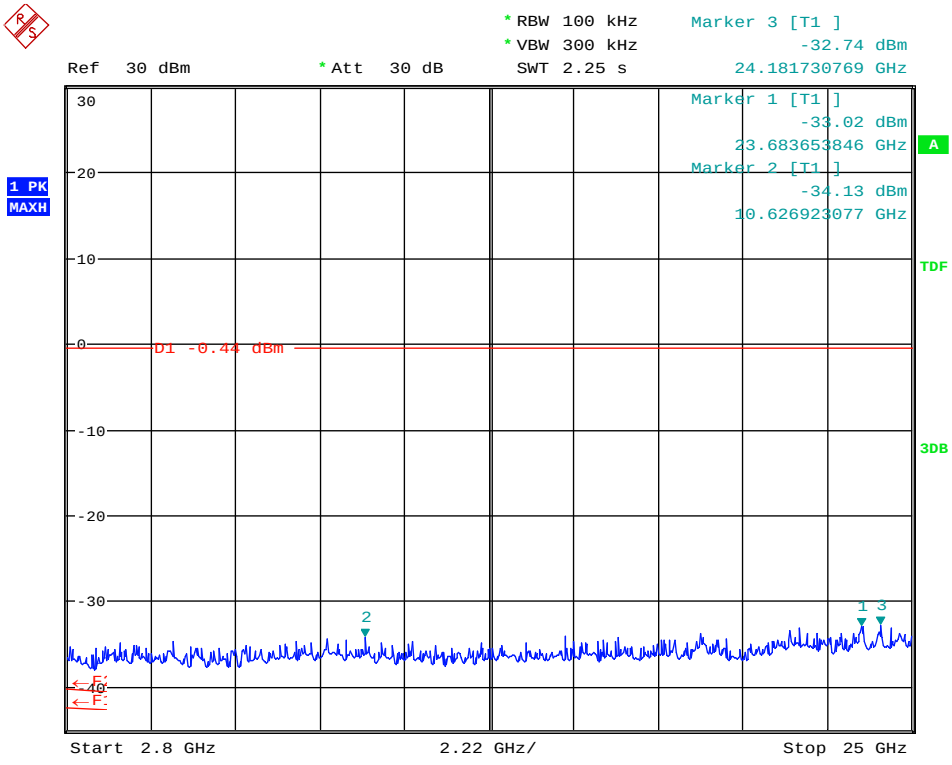
Plot 133: 20dBc-RCM24G-MSK-500Kbps-Ch34(2436.5 MHz)-PWR+21dBm-Carrier



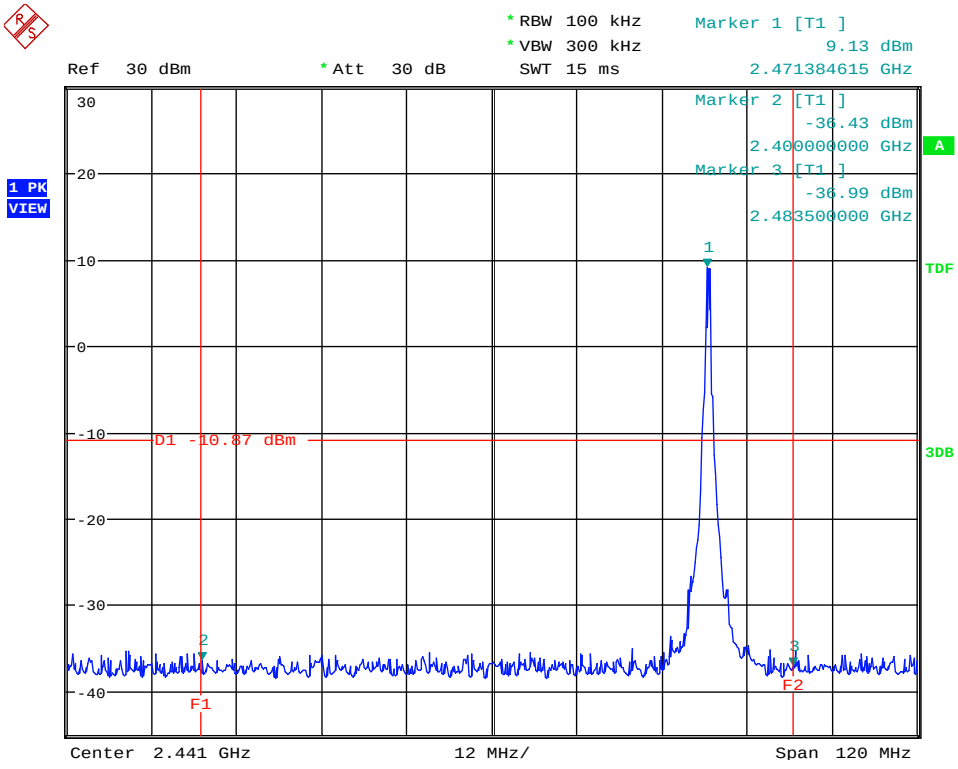
Plot 134: 20dBc-RCM24G-MSK-500Kbps- Ch34(2436.5 MHz)-PWR+21dBm-0.15MHz-30MHz



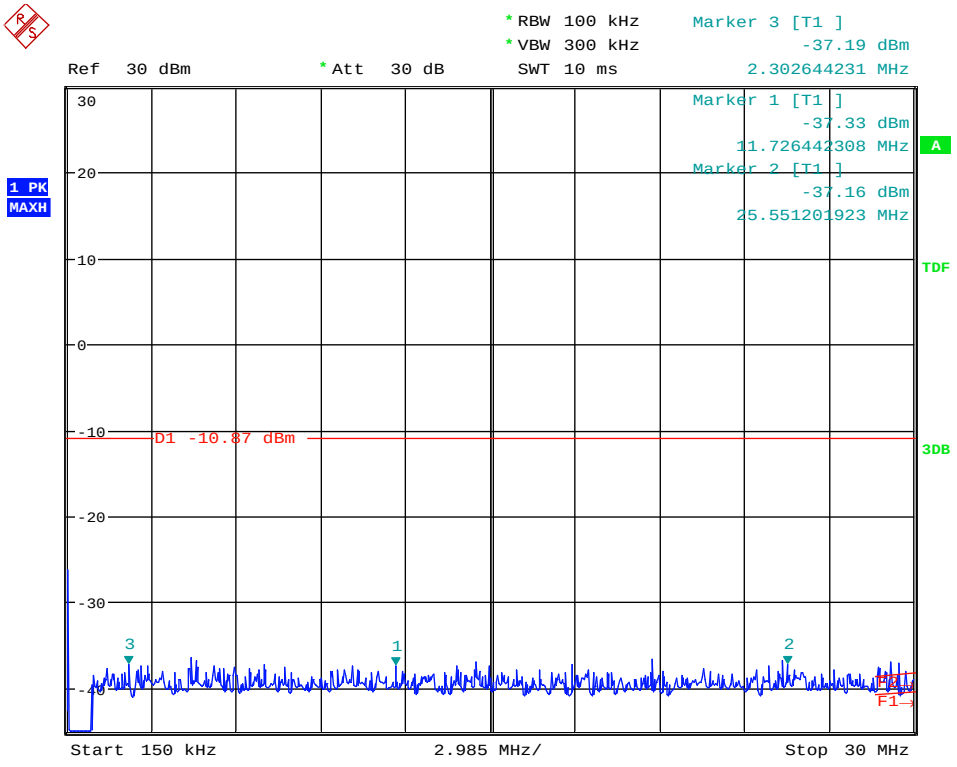
Plot 135: 20dBc-RCM24G-MSK-500Kbps-Ch34(2436.5 MHz)-PWR+21dBm-30MHz-2.8GHz



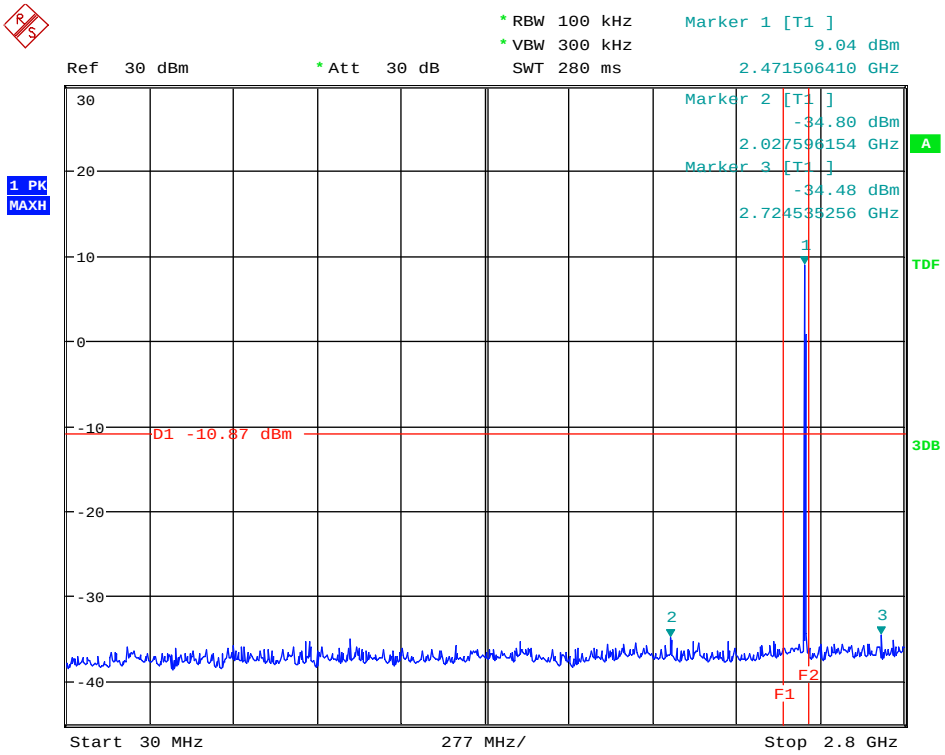
Plot 136: 20dBc-RCM24G-MSK-500Kbps-Ch34(2436.5 MHz)-PWR+21dBm-2.8GHz-25GHz



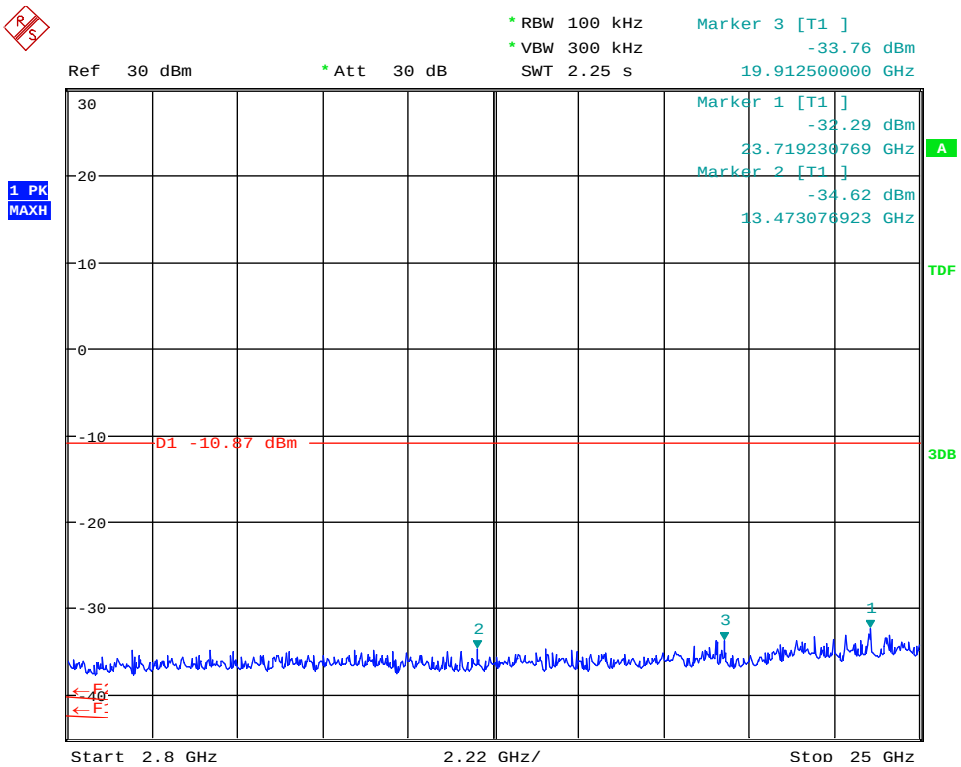
Plot 137: 20dBc-RCM24G-MSK-500Kbps-Ch69(2471.5 MHz)-PWR+12dBm-Carrier



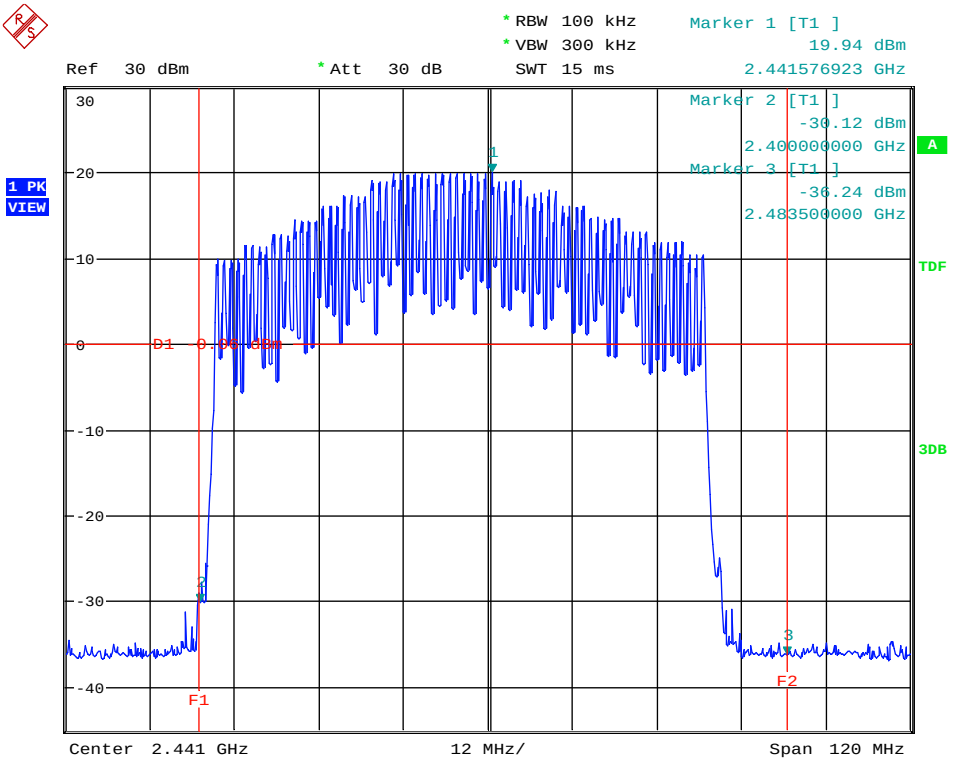
Plot 138: 20dBc-RCM24G-MSK-500Kbps- Ch69(2471.5 MHz)-PWR+12dBm-0.15MHz-30MHz



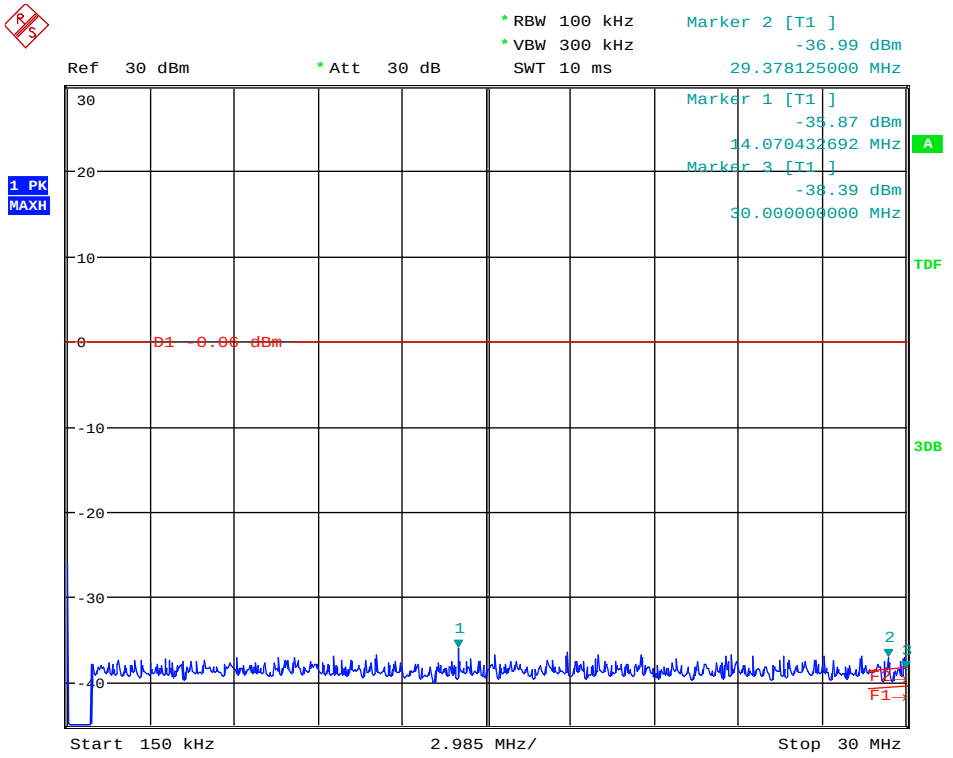
Plot 139: 20dBc-RCM24G-MSK-500Kbps-Ch69(2471.5 MHz)-PWR+12dBm-30MHz-2.8GHz



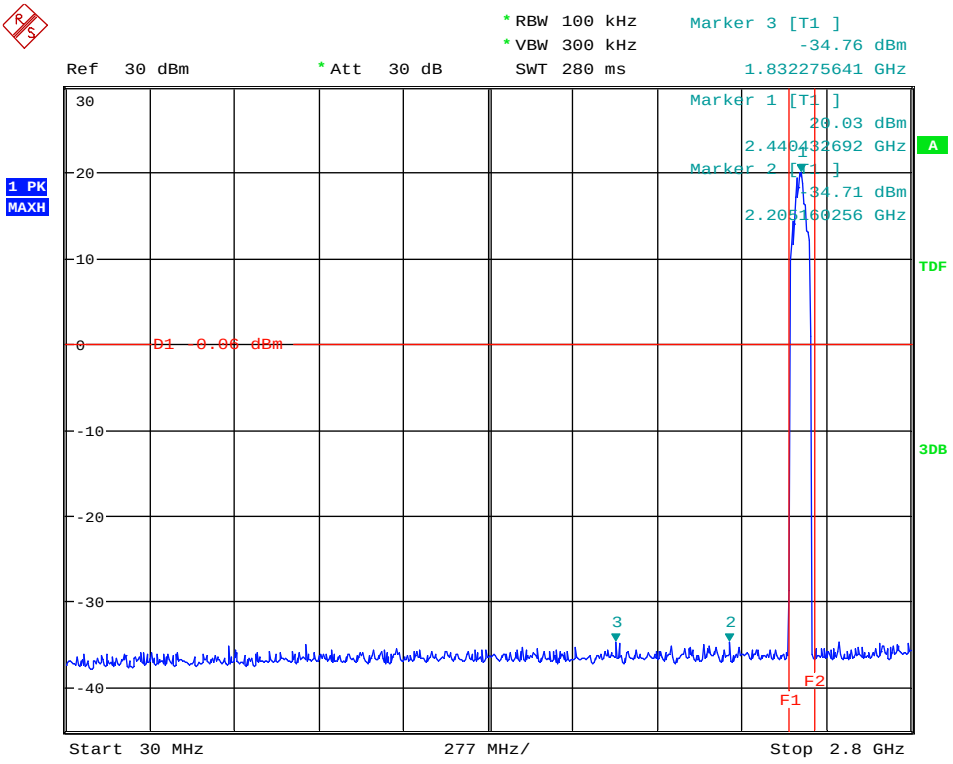
Plot 140: 20dBc-RCM24G-MSK-500Kbps-Ch69(2471.5 MHz)-PWR+12dBm-2.8GHz-25GHz



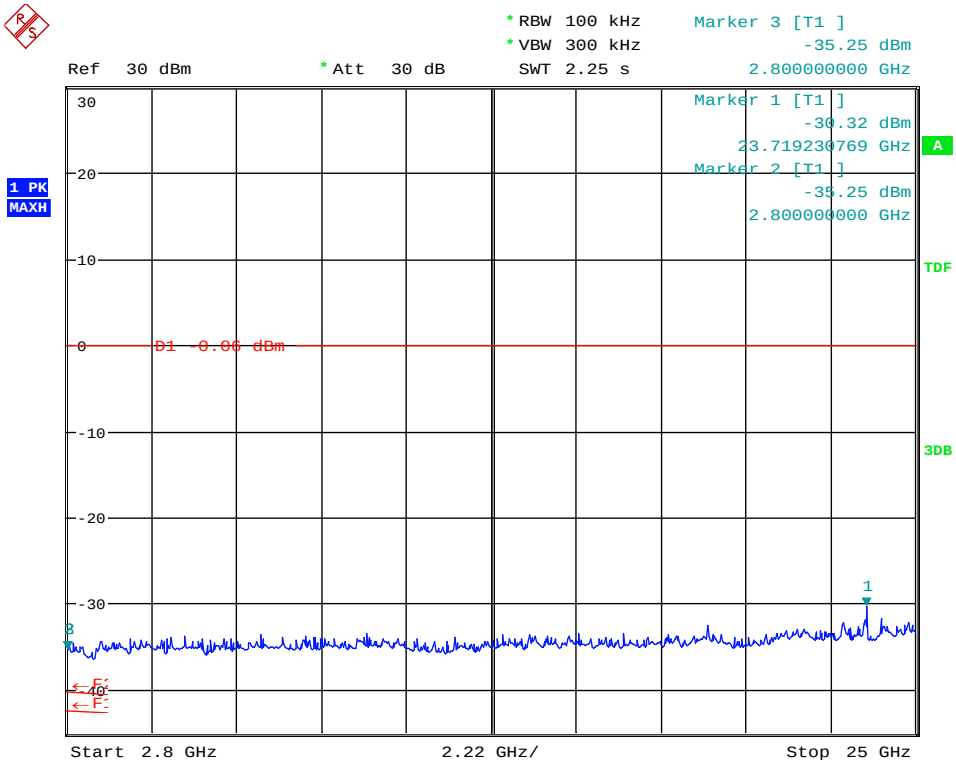
Plot 141: 20dBc-RCM24G-MSK-500Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-Carrier



Plot 142: 20dBc-RCM24G-MSK-500Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-0.15MHz-30MHz



Plot 143: 20dBc-RCM24G-MSK-500Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-30MHz-2.8GHz



Plot 144: 20dBc-RCM24G-MSK-500Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-2.8GHz-25GHz

Radiated Field Strength Measurements

RCM24G

+

PRESTTA Antenna

2. Radiated Field Strength Measurements- RCM24G + PRESTTA Antenna

2.1. Radiated Field Strength Emissions - 9kHz to 30MHz

2.01_RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR +12 dBm

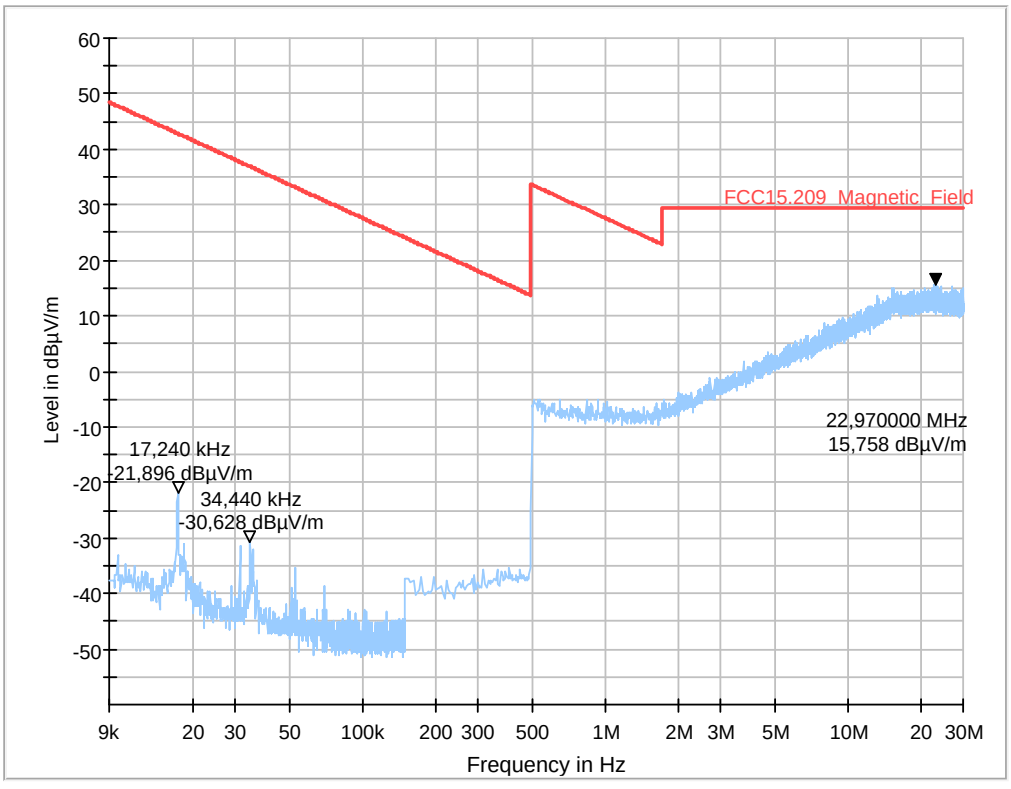
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	TX-Continuous RCM24G+Prestta Antenna MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.02_RCM24G+PRESTTA Ant-MSK-100Kbps-Ch69-PWR+12dBm

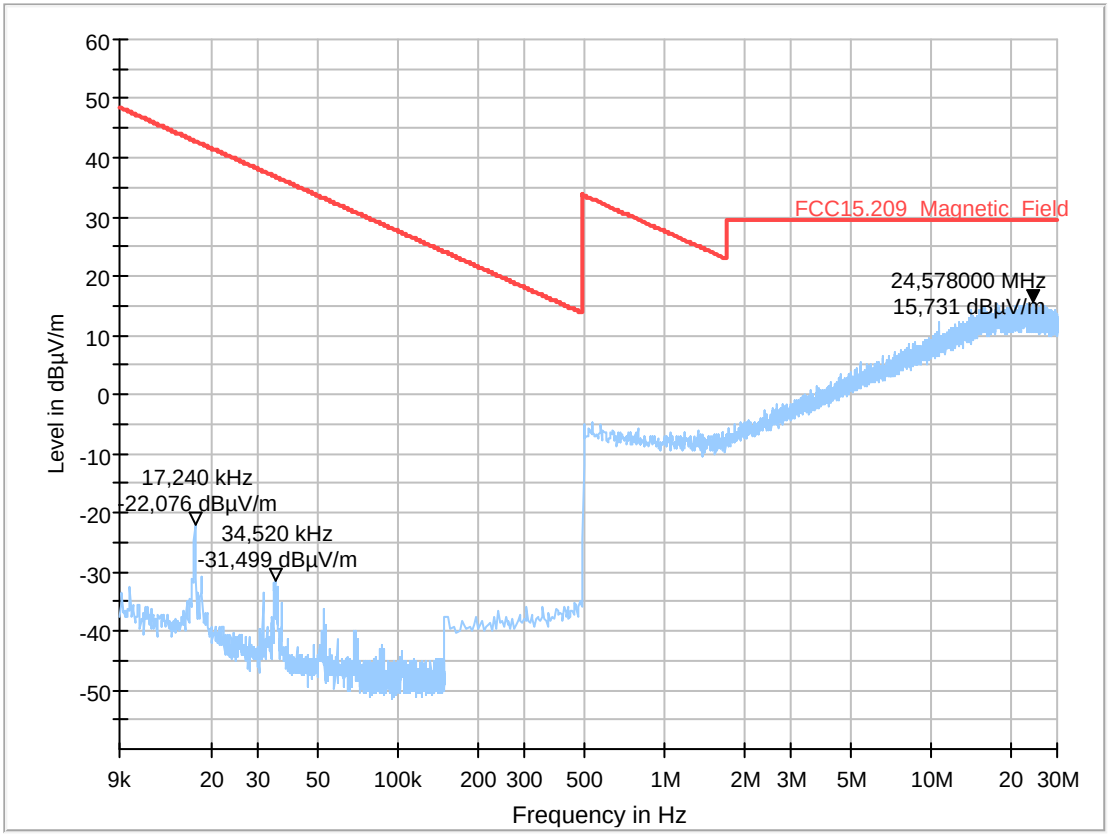
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	TX-Continuous RCM24G+Prestta Antenna MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.03_RCM24G+PRESTTA Ant-MSK-250Kbps-Ch0-PWR +12dBm

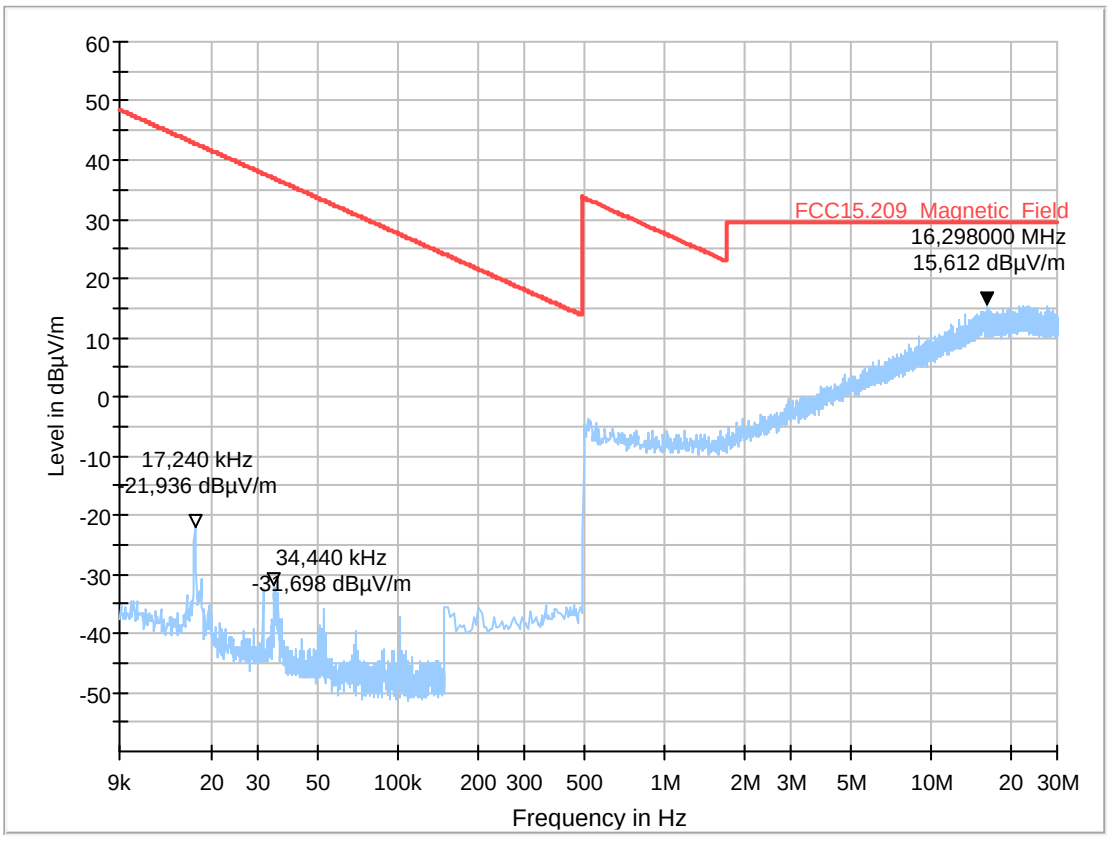
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	TX-Continuous RCM24G+Prestta Antenna MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.04_RCM24G+PRESTTA Ant-MSK-500Kbps-Ch34-PWR +21dBm

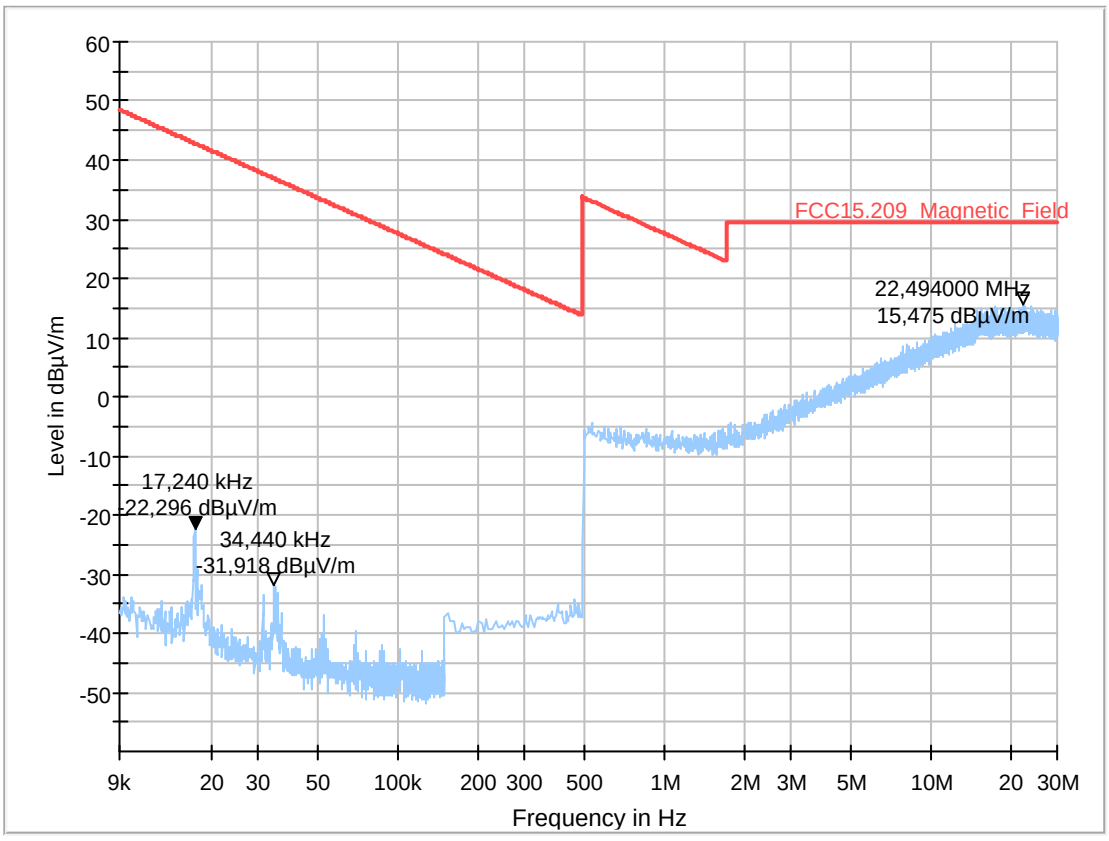
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	TX-Continuous RCM24G+Prestta Antenna MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.2. Radiated Field Strength Emissions - 30MHz to 1GHz

3.01_RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR +12dBm

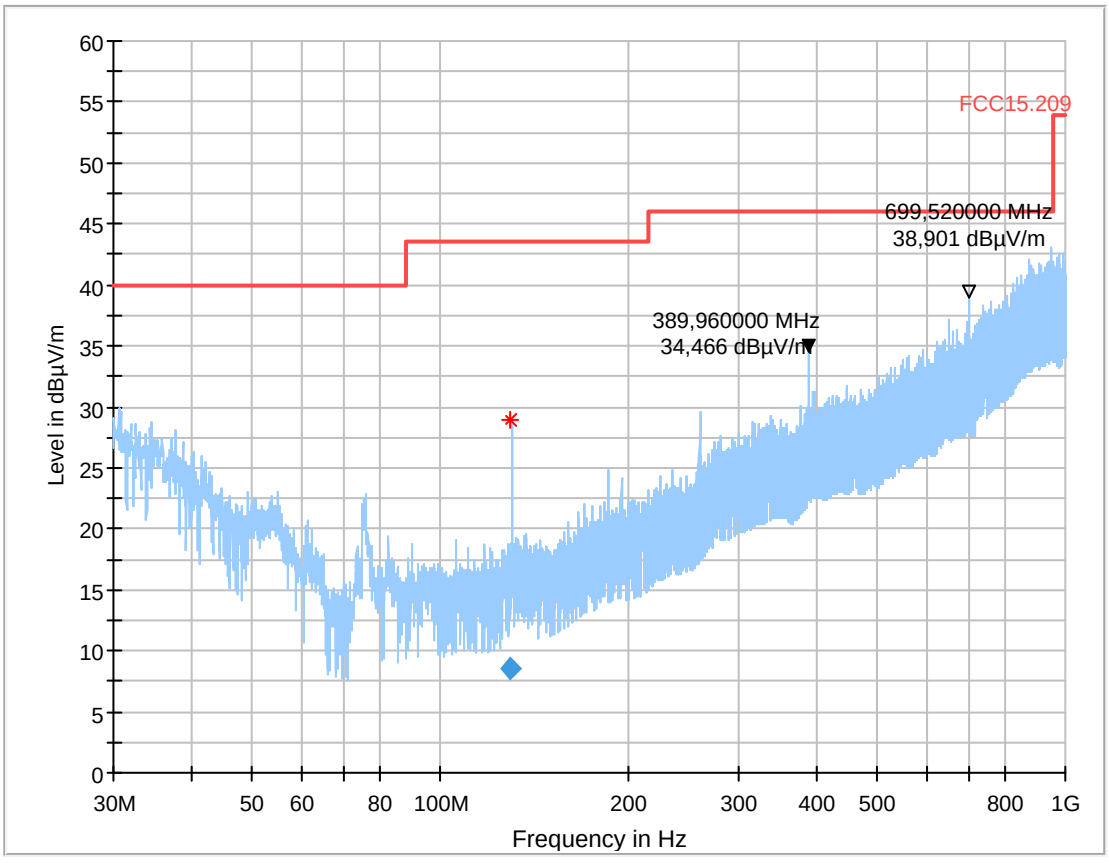
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 , FCC 15.209 Intentional Radiator / RSS-Gen, Issue 4
Operator:	APh
Operating conditions:	TX-Continuous RCM24G+Prestta Antenna MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
129.864000	8.50	43.50	35.00	1000.0	120.000	183.0	H	163.0	0.0	9.0

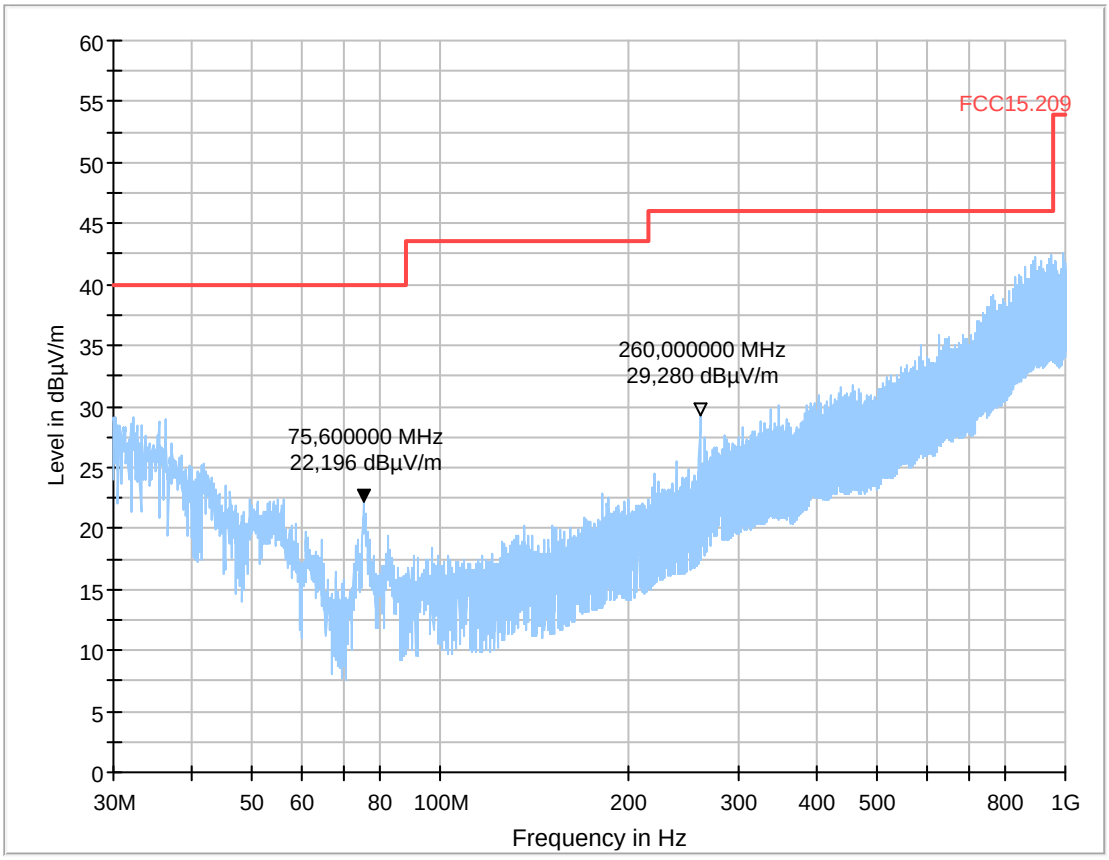
3.02_RCM24G+PRESTTA Ant-MSK-100Kbps-Ch69-PWR+12dBm

Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 , FCC 15.209 Intentional Radiator / RSS-Gen, Issue 4
Operator:	RIs
Operating conditions:	TX-Continuous RCM24G+Prestta Antenna MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



3.03_RCM24G+PRESTTA Ant-MSK-250Kbps-Ch0-PWR +12dBm

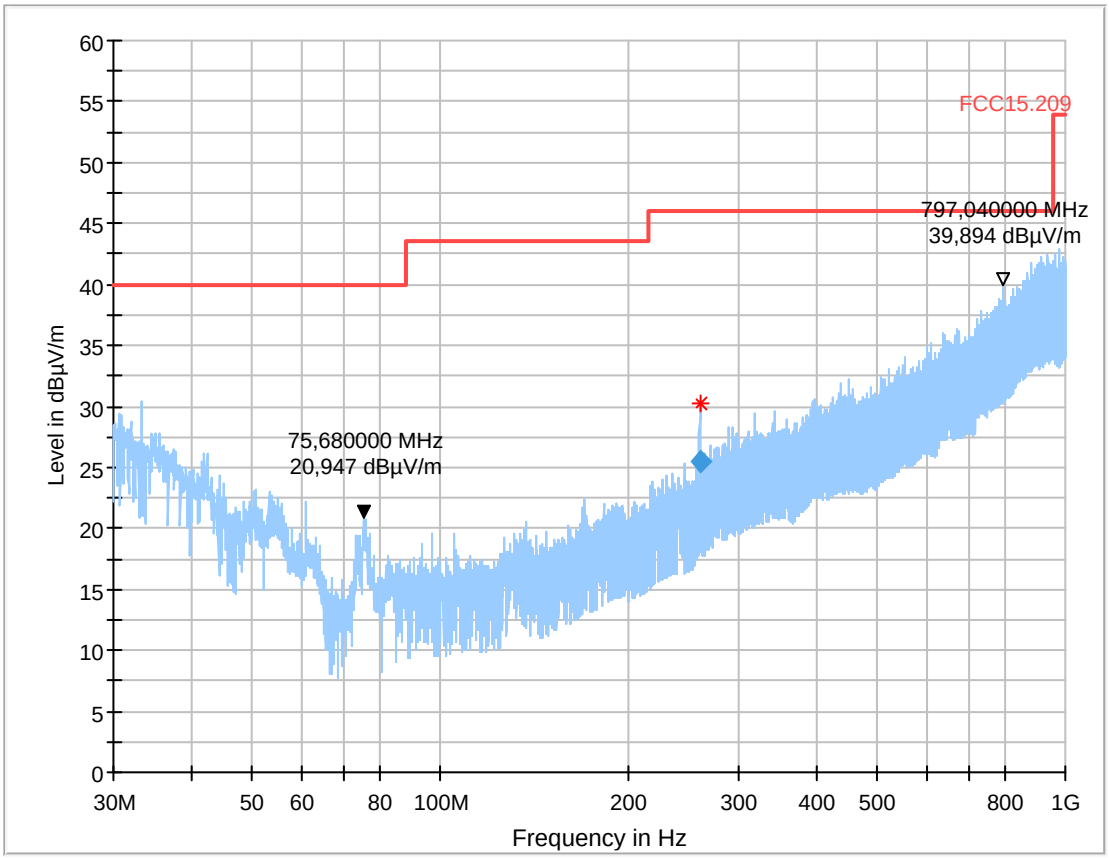
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 , FCC 15.209 Intentional Radiator / RSS-Gen, Issue 4
Operator:	YSa
Operating conditions:	TX-Continuous RCM24G+Prestta Antenna MSK |250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power: +12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
259.996000	25.42	46.00	20.58	1000.0	120.000	125.0	H	-1.0	0.0	13.7

3.04_RCM24G+PRESTTA Ant-MSK-500Kbps-Ch34-PWR +21dBm

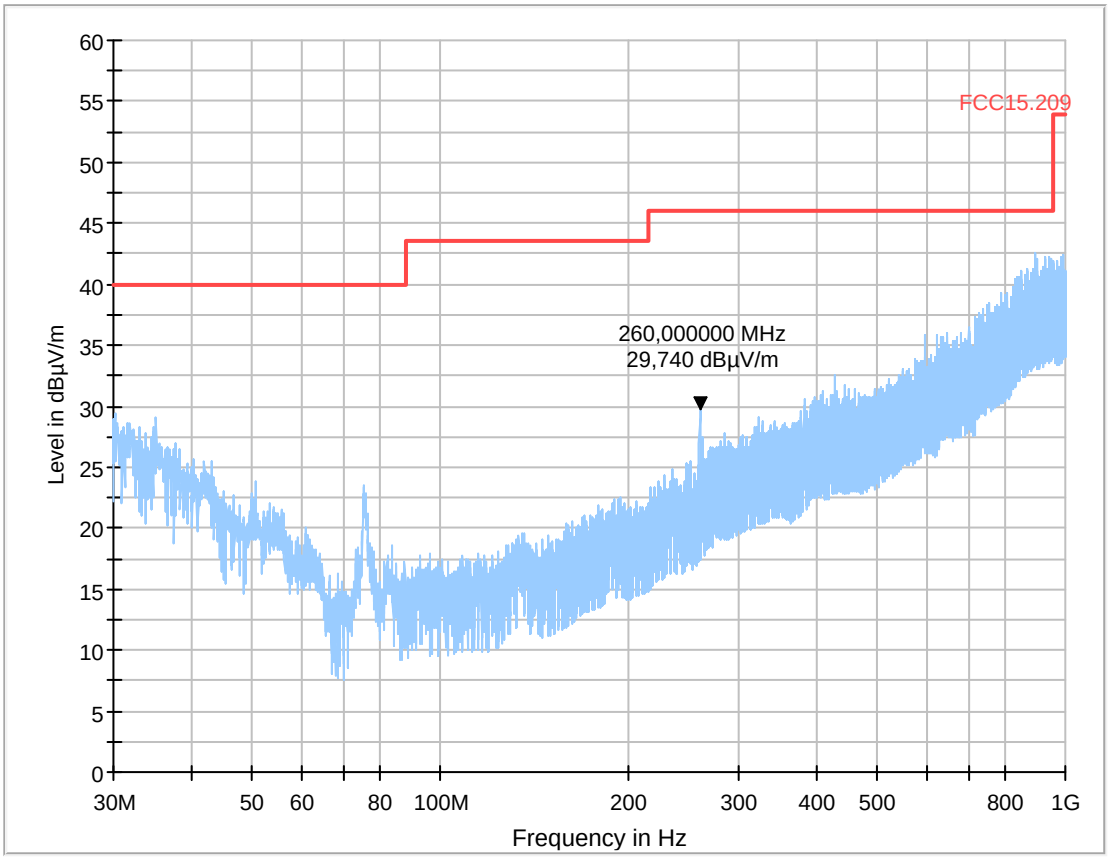
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 , FCC 15.209 Intentional Radiator / RSS-Gen, Issue 4
Operator:	YSa
Operating conditions:	TX-Continuous RCM24G+Prestta Antenna MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.3. Radiated Field Strength Emissions - 1GHz to 18GHz

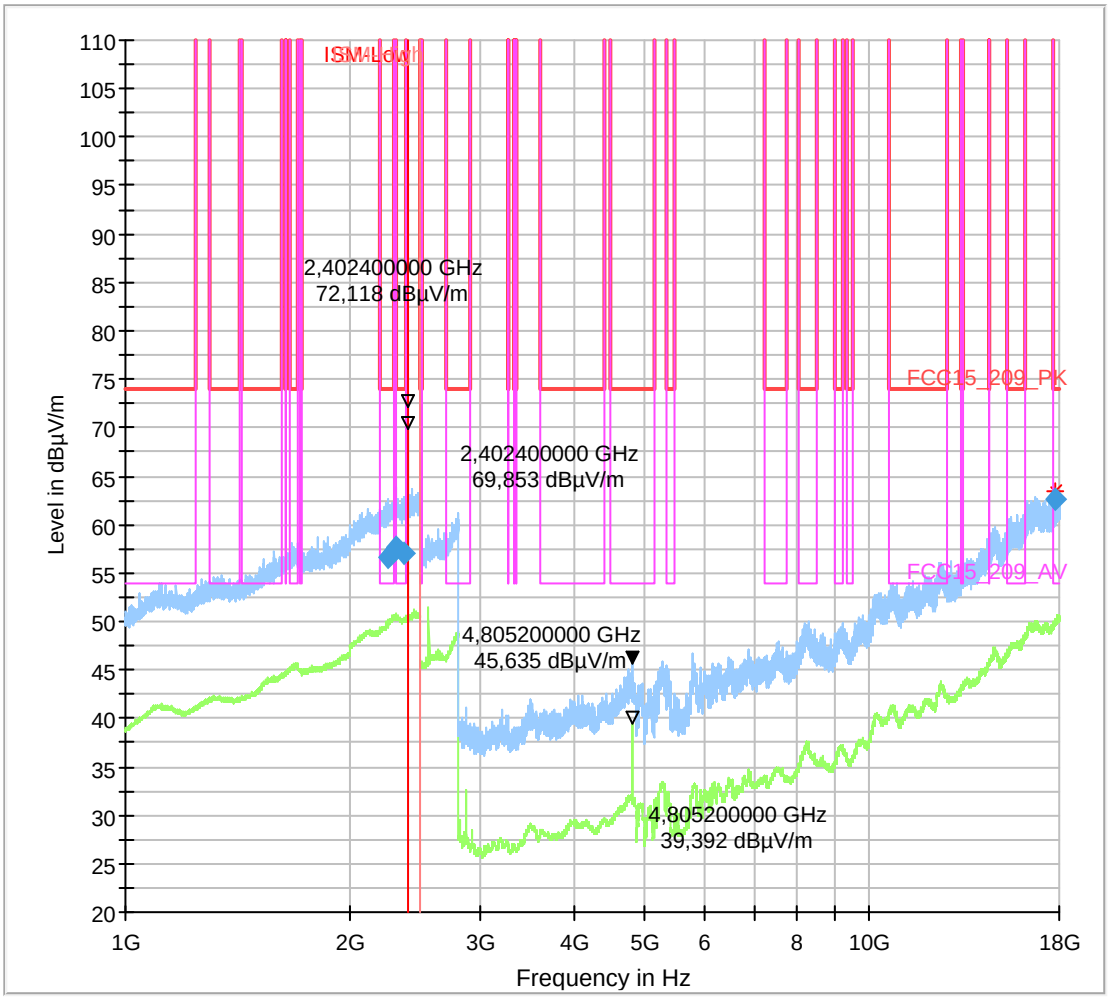
4.01_RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR +12dBm

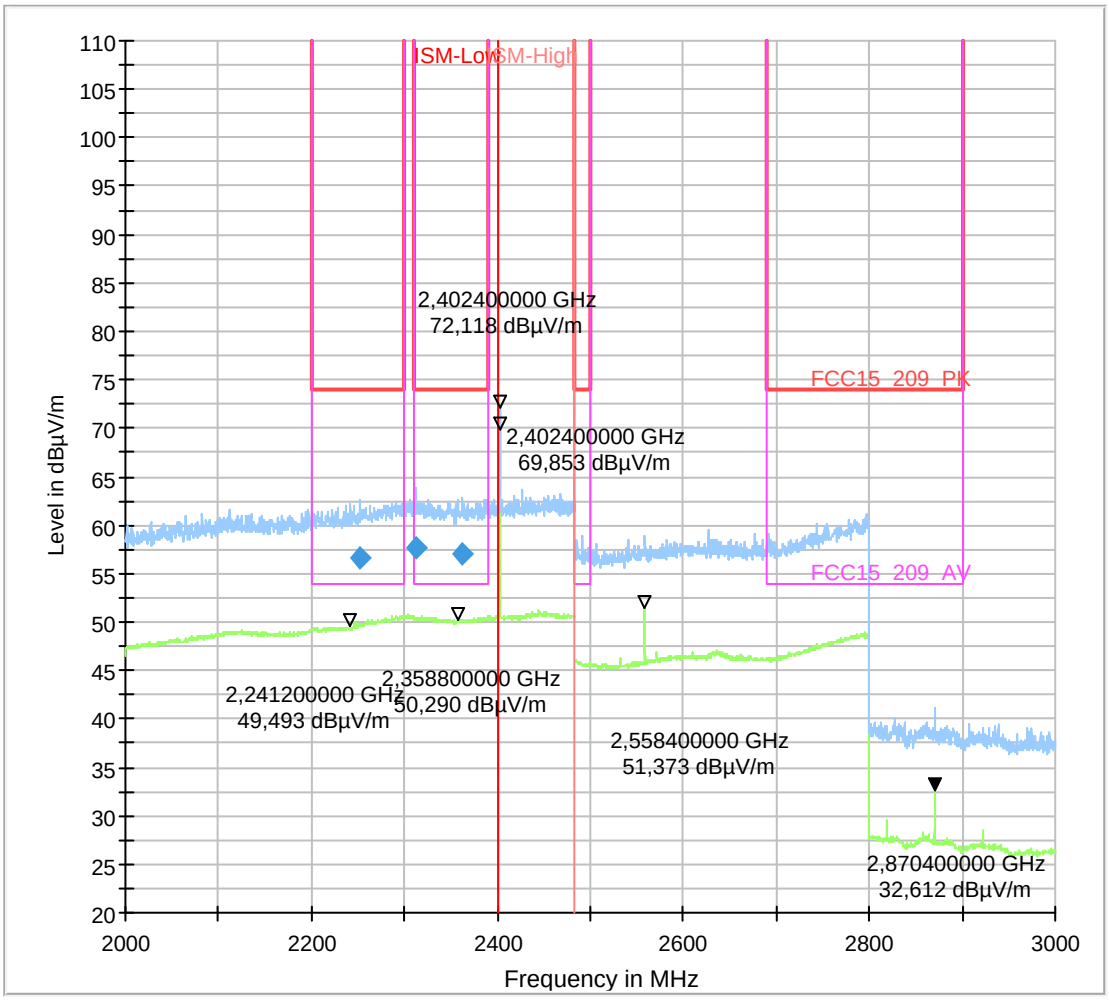
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) | Power:+12dBm
Operator Name:	APh/ PSa
Measurements performed :	with 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply





Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2251.880000	56.56	74.00	17.44	100.0	1000.000	155.0	H	90.0	90.0	34.8
2311.520000	57.66	74.00	16.34	100.0	1000.000	155.0	H	156.0	90.0	35.7
2362.560000	57.10	74.00	16.90	100.0	1000.000	155.0	V	71.0	0.0	35.6
17768.560000	62.58	74.00	11.42	100.0	1000.000	155.0	V	190.0	0.0	25.8

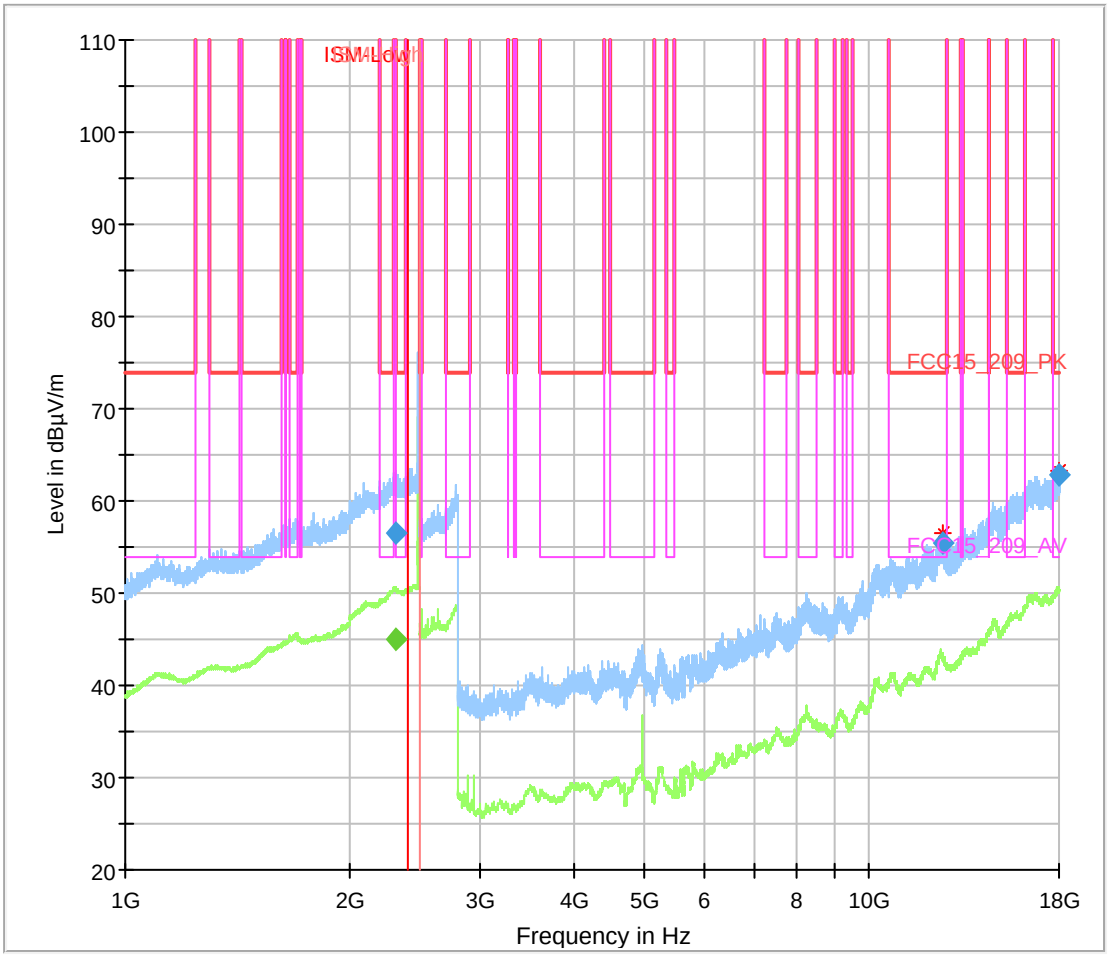
4.02_RCM24G+PRESTTA Ant-MSK-100Kbps-Ch69-PWR+12dBm

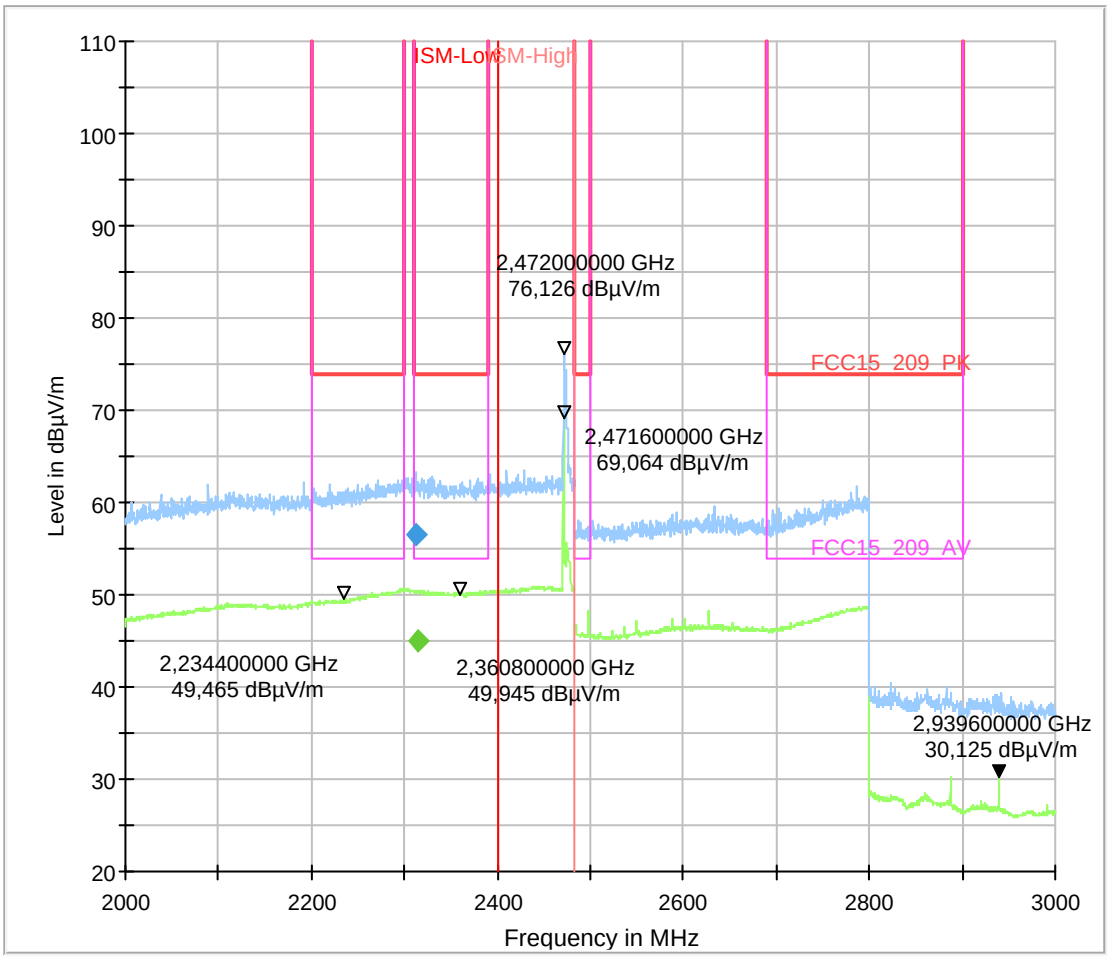
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) | Power:+12dBm
Operator Name:	APh/ PSa
Measurements performed :	with 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply





Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)
2313.360000	56.60	---	74.00	17.40	100.0	1000.000	155.0
2314.440000	---	45.00	54.00	9.00	100.0	1000.000	155.0
12565.200000	55.35	---	74.00	18.65	100.0	1000.000	155.0
17968.400000	62.90	---	74.00	11.10	100.0	1000.000	155.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2313.360000	V	229.0	90.0	35.7
2314.440000	V	334.0	90.0	35.7
12565.200000	V	302.0	90.0	19.4
17968.400000	H	236.0	0.0	26.4

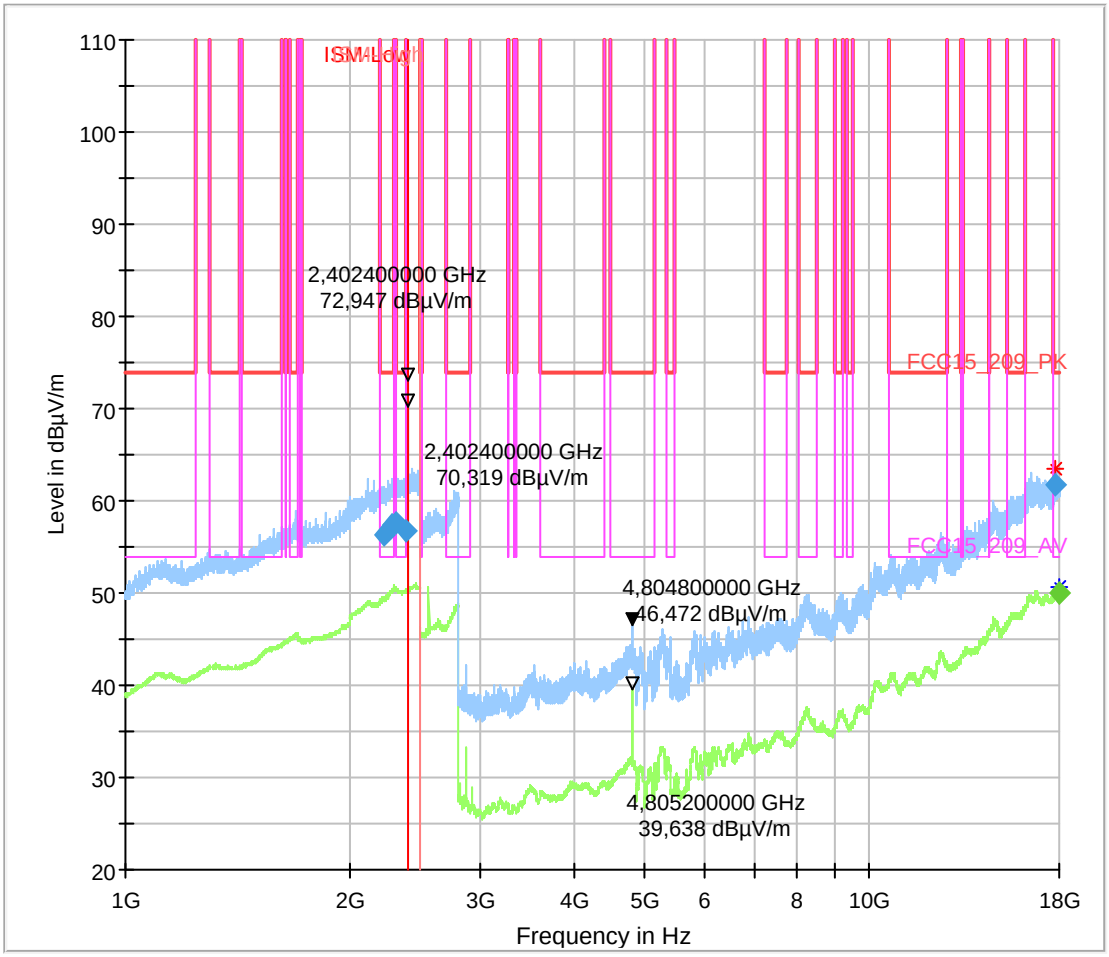
4.03_RCM24G+PRESTTA Ant-MSK-250Kbps-Ch0-PWR +12 dBm

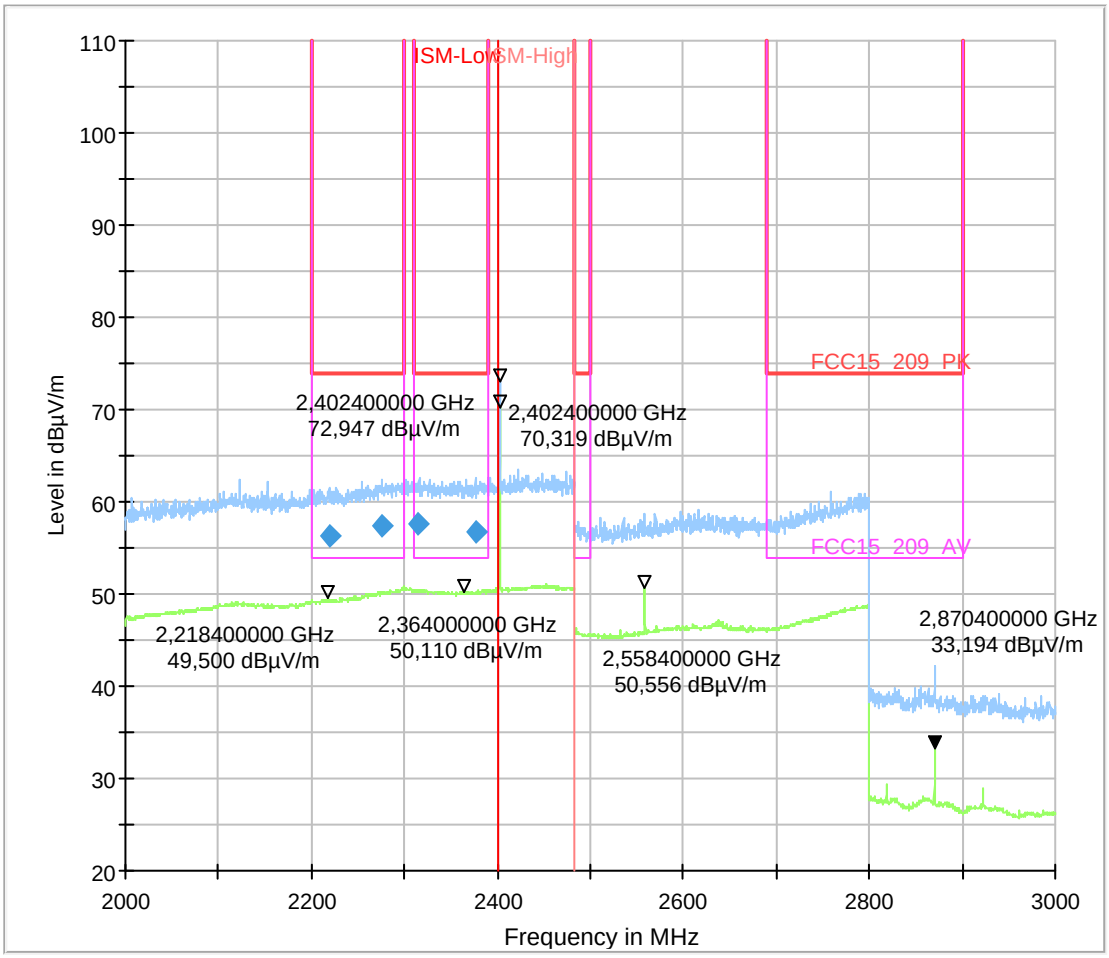
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) | Power:+12dBm
Operator Name:	PSa
Measurements performed :	with 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply





Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)
2219.280000	56.40	---	74.00	17.60	100.0	1000.000	155.0
2275.960000	57.33	---	74.00	16.67	100.0	1000.000	155.0
2315.240000	57.68	---	74.00	16.32	100.0	1000.000	155.0
2377.240000	56.77	---	74.00	17.23	100.0	1000.000	155.0
17795.640000	61.72	---	74.00	12.28	100.0	1000.000	155.0
17948.080000	---	49.94	54.00	4.06	100.0	1000.000	155.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2219.280000	H	165.0	0.0	35.0
2275.960000	V	34.0	0.0	35.2
2315.240000	H	93.0	90.0	35.7
2377.240000	H	295.0	0.0	35.5
17795.640000	V	153.0	0.0	25.9
17948.080000	H	181.0	0.0	26.3

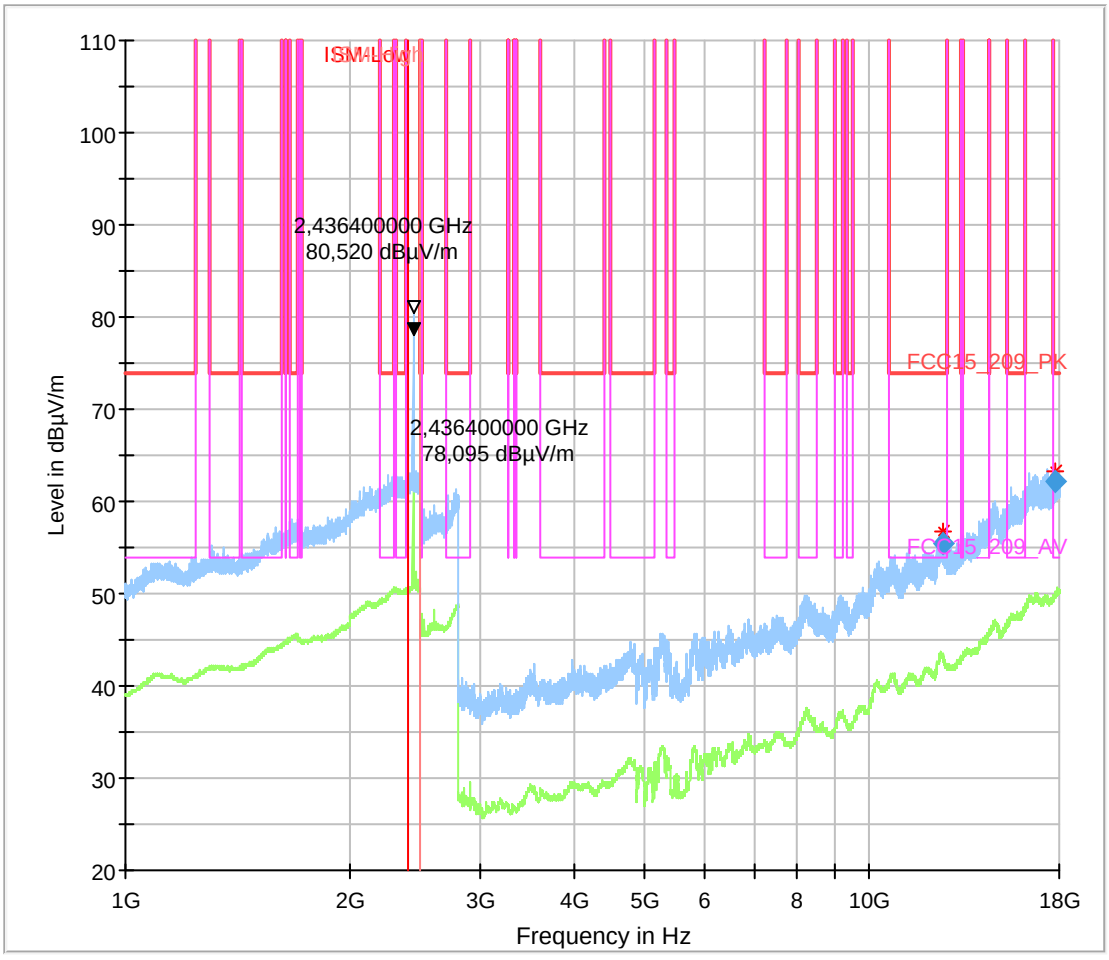
4.04_RCM24G+PRESTTA Ant-MSK-500Kbps-Ch34-PWR +21dBm

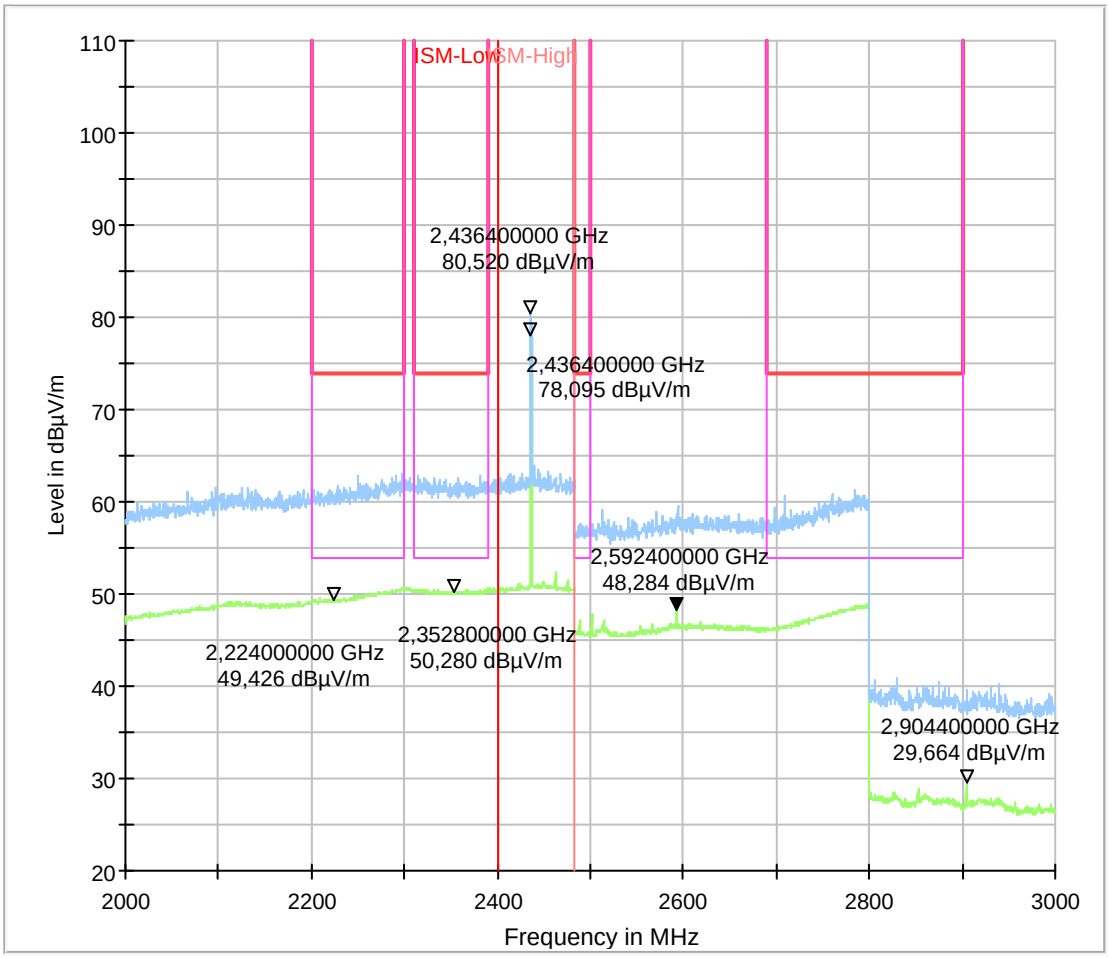
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated) | Power:+21dBm
Operator Name:	APh/ PSa
Measurements performed :	with 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply





Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
12524.920000	55.40	74.00	18.60	100.0	1000.000	155.0	V	20.0	0.0	19.7
17826.920000	62.08	74.00	11.92	100.0	1000.000	155.0	V	11.0	0.0	26.0

2.4. Radiated Field Strength Emissions - 18GHz to 25GHz
4.01a_RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR +12dBm

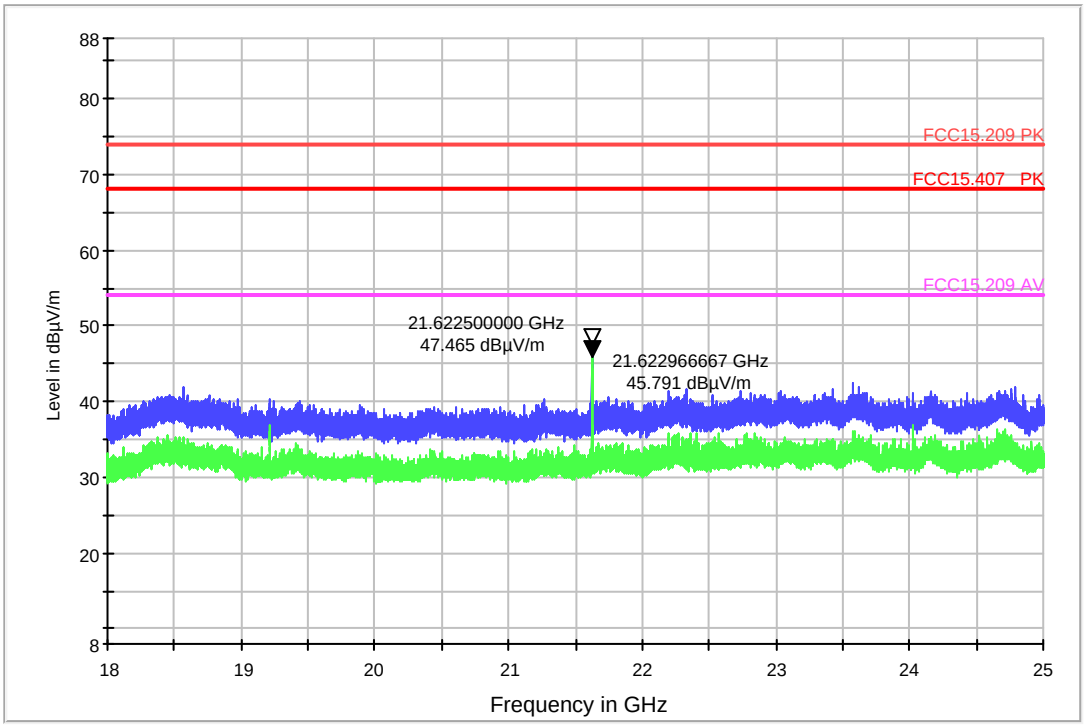
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+Prestta Antenna MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

FCC_Sweep_15.247_18_25GHz_Pre



4.02a_RCM24G+PRESTTA Ant-MSK-100Kbps-Ch69-PWR+12dBm

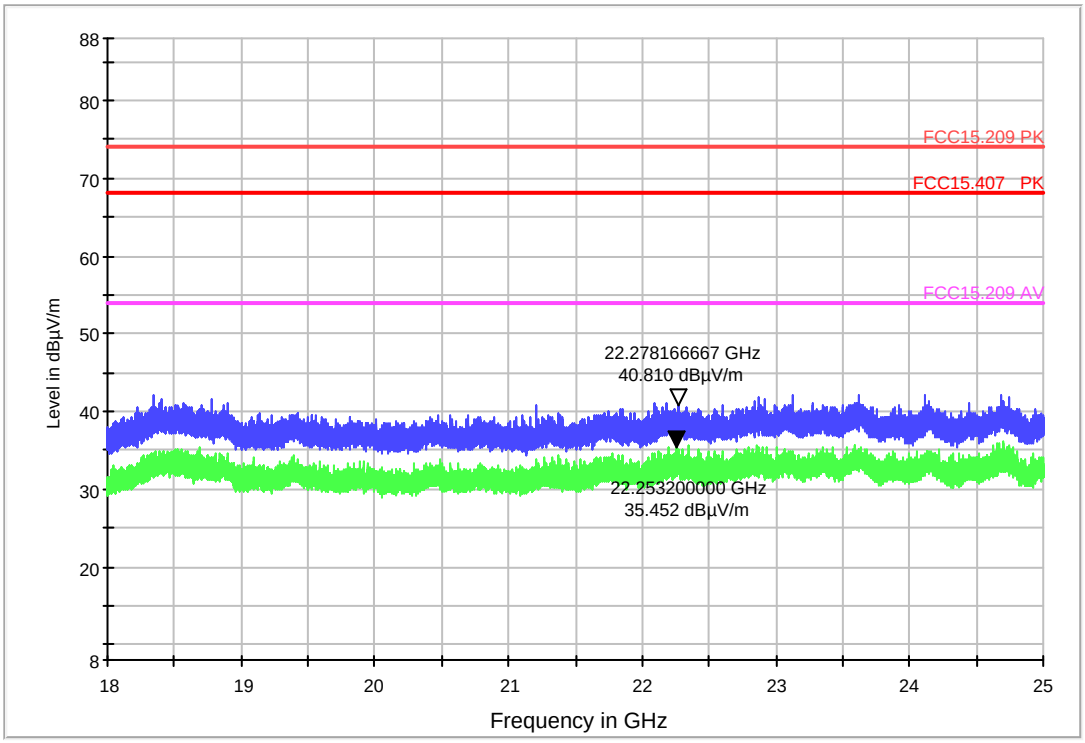
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+Prestta Antenna MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

FCC_Sweep_15.247_18_25GHz_Pre



4.03a_RCM24G+PRESTTA Ant-MSK-250Kbps-Ch0-PWR +12dBm

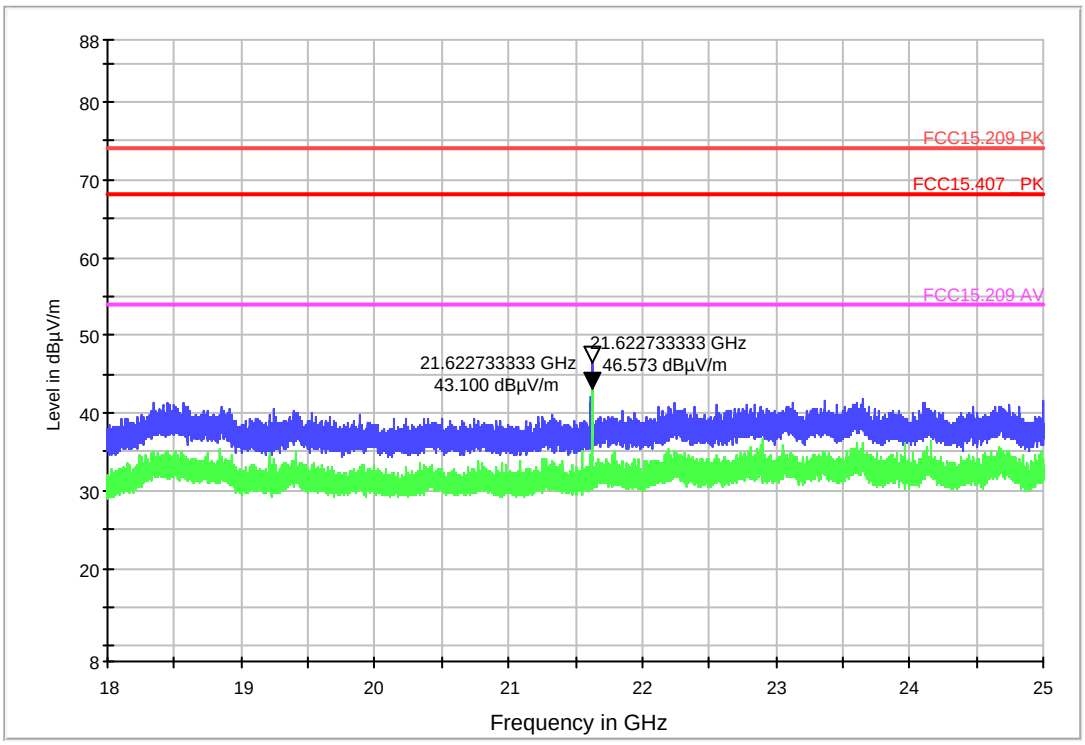
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+Prestta Antenna MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

FCC_Sweep_15.247_18_25GHz_Pre



4.04a_RCM24G+PRESTTA Ant-MSK-500Kbps-Ch34-PWR +21dBm

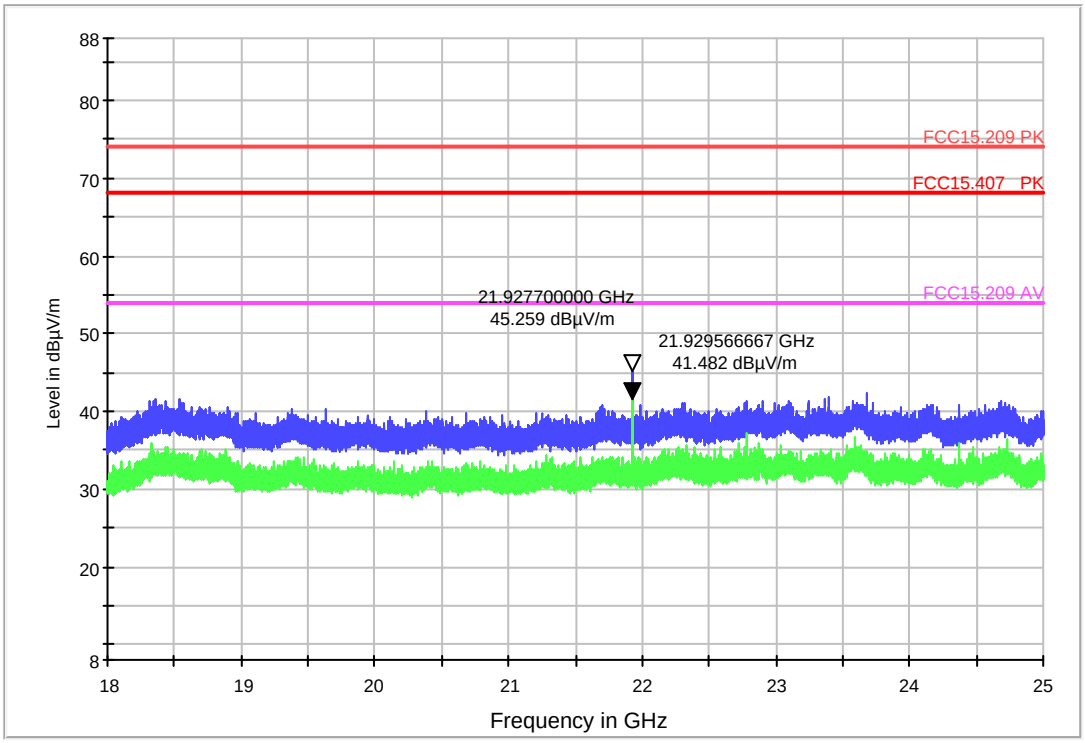
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+Prestta Antenna MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

FCC_Sweep_15.247_18_25GHz_Pre



2.5. Radiated Band-Edge Measurements

2.5.1. Low Channel 2402.5 MHz (2.4 GHz ISM: left band edge)

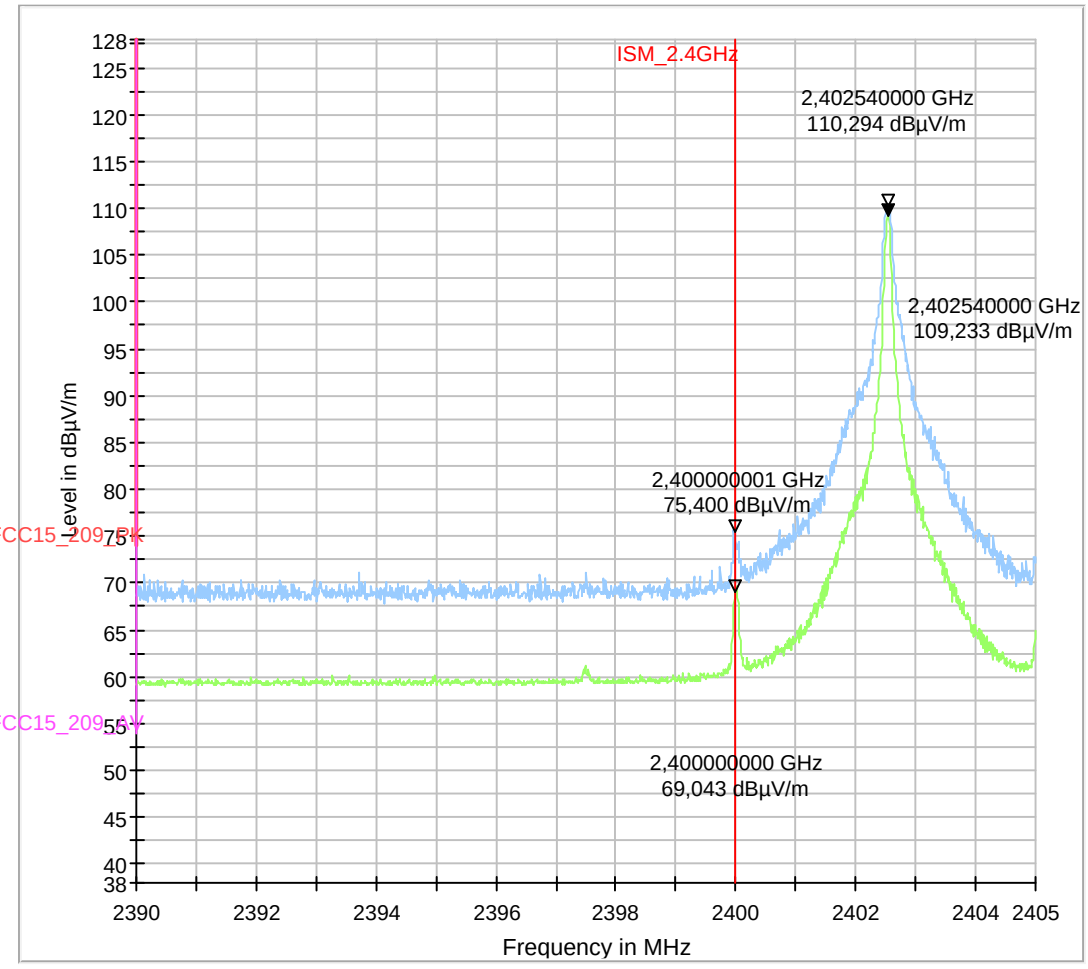
9.01_BE-RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR+12 dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power +12 dBm
Operator Name:	AFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3
4.01_RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR +12dBm]

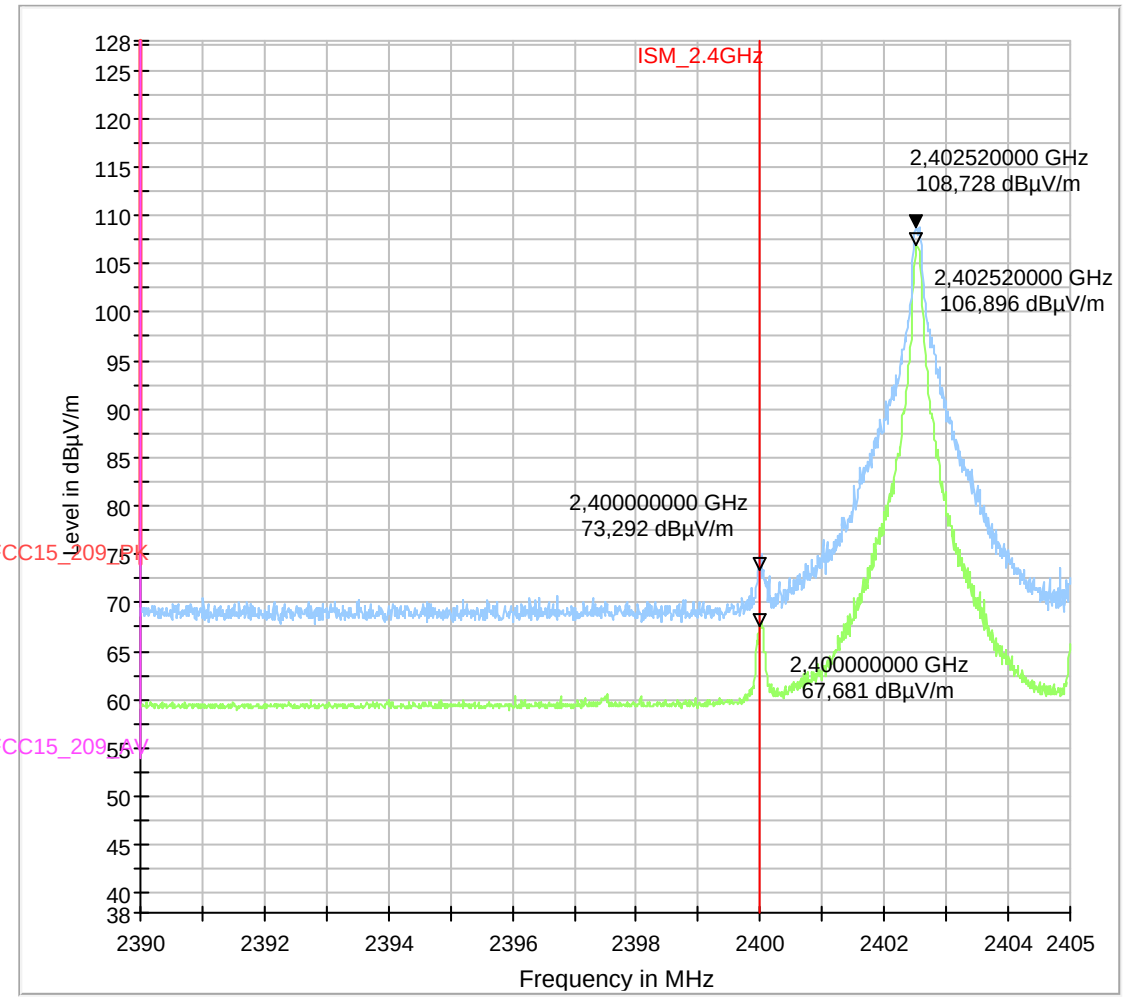
9.03_BE-RCM24G+PRESTTA Ant-MSK-100Kbps- Ch0-PWR+12 dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 100 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power +12 dBm
Operator Name:	AFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3
4.02_RCM24G+PRESTTA Ant-MSK-100Kbps-Ch69-PWR+12dBm]

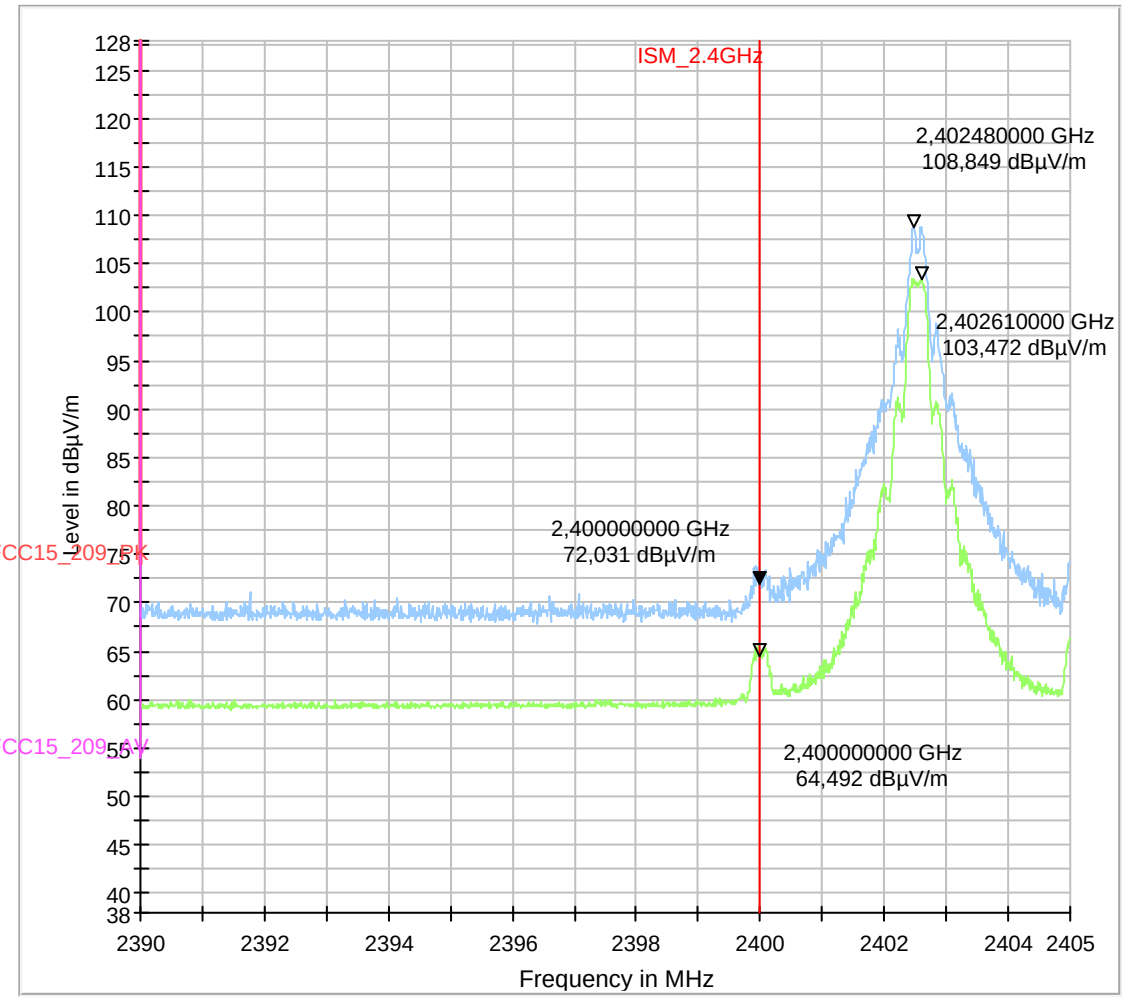
9.05_BE-RCM24G+PRESTTA Ant-MSK-250Kbps- Ch0-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power +12 dBm
Operator Name:	AFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3
4.03_RCM24G+PRESTTA Ant-MSK-250Kbps-Ch0-PWR +12 dBm]

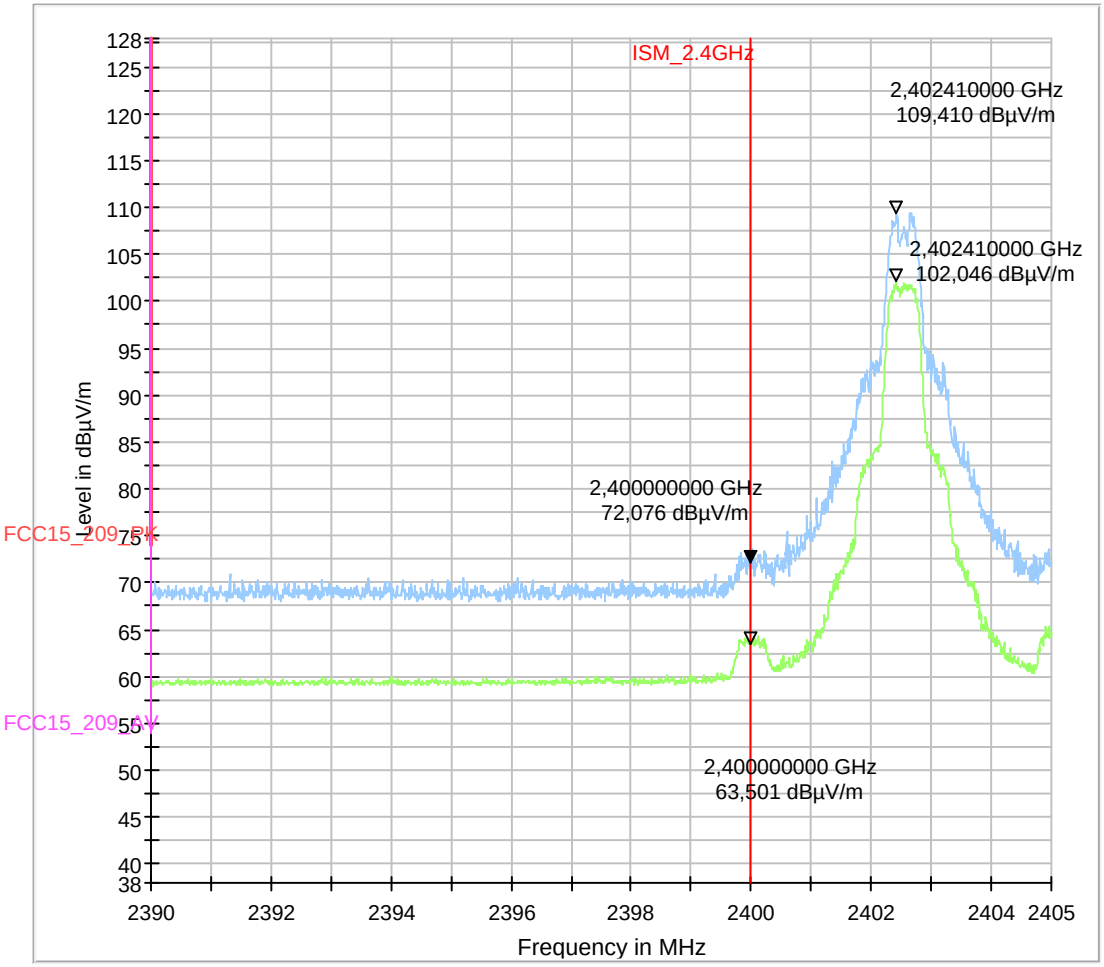
9.07_BE-RCM24G+PRESTTA Ant-MSK-500Kbps- Ch0-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 500 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power +12 dBm
Operator Name:	AFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3
4.04_RCM24G+PRESTTA Ant-MSK-500Kbps-Ch34-PWR +21dBm]

2.5.2. High Channel 2471.5 MHz (2.4 GHz ISM: right band edge)

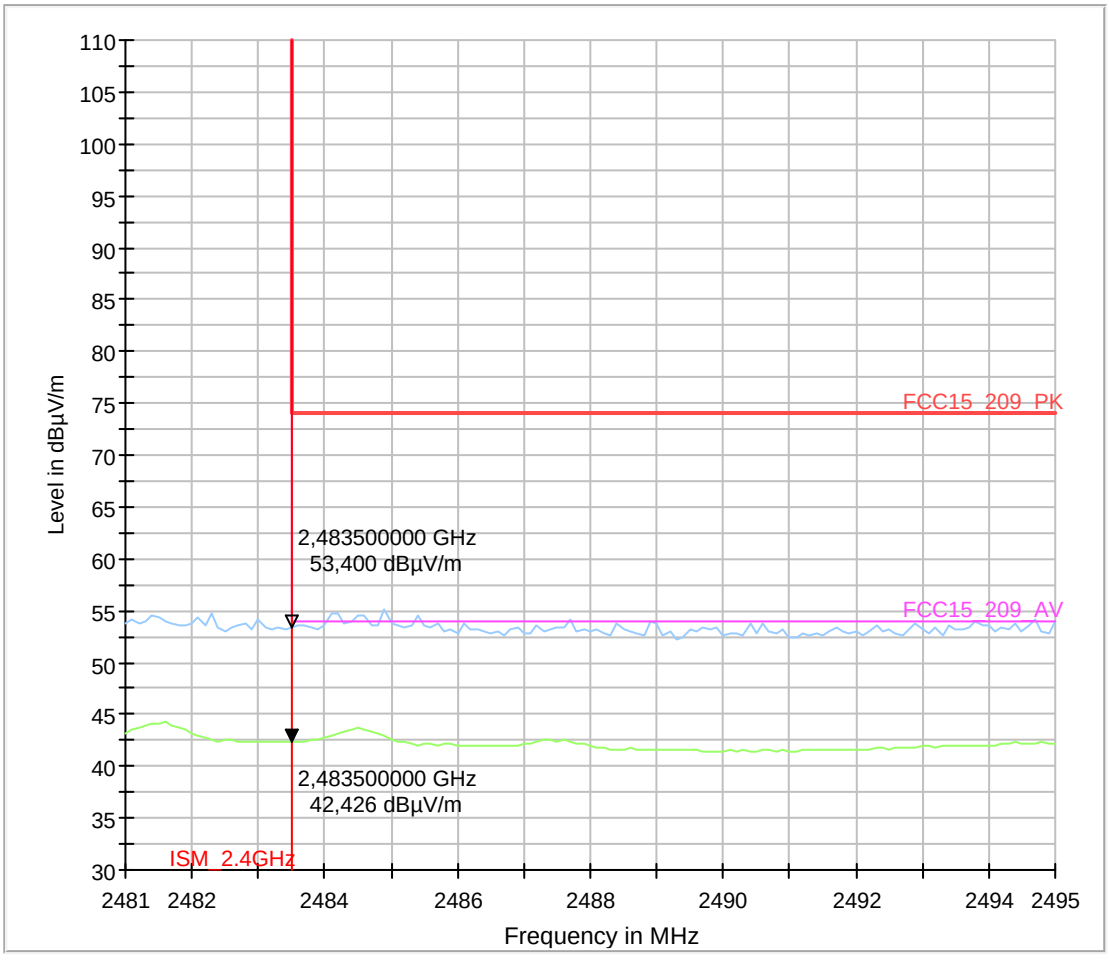
9.02_BE-RCM24G+PRESTTA Ant-MSK-50Kbps-Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 50 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated Power +12 dBm)
Operator Name:	AFr
Measurements Performed :	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



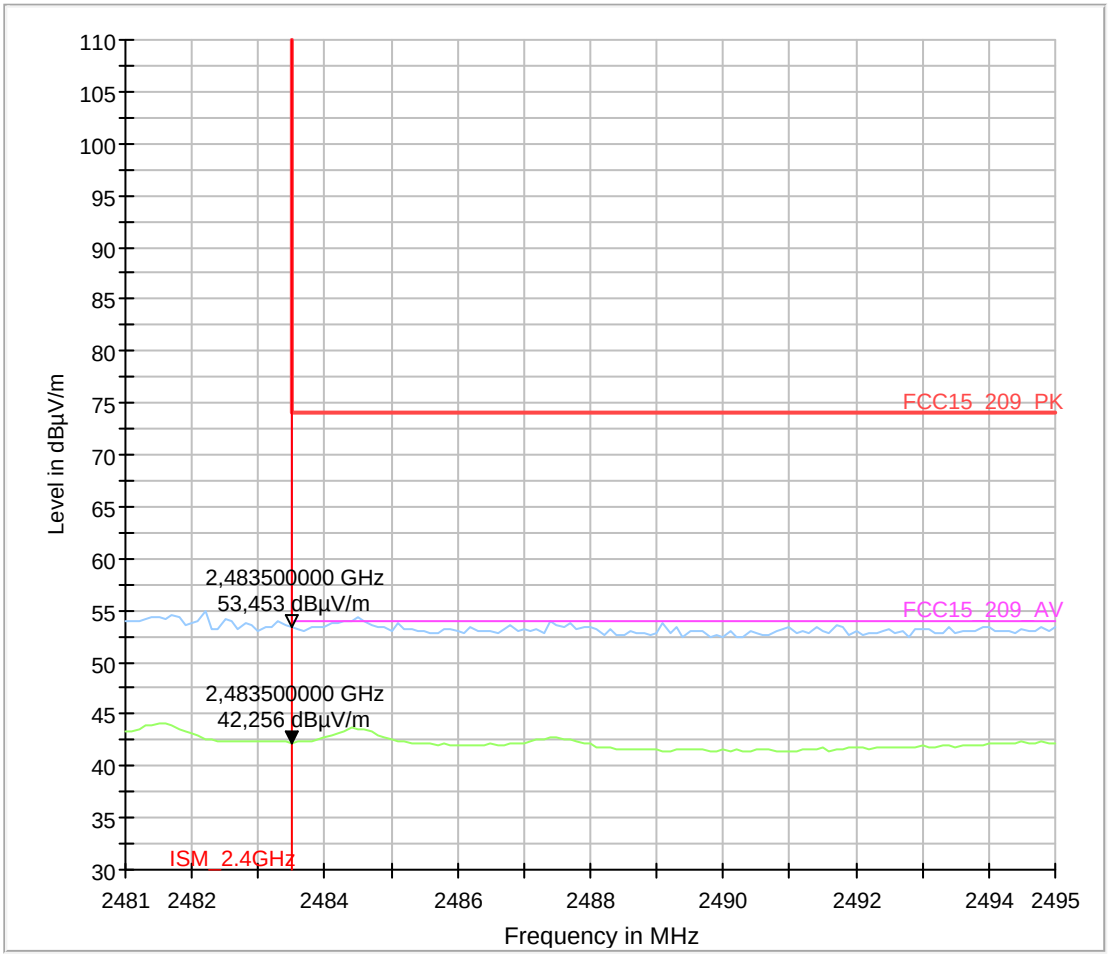
9.04_BE-RCM24G+PRESTTA Ant-MSK-100Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power +12 dBm
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



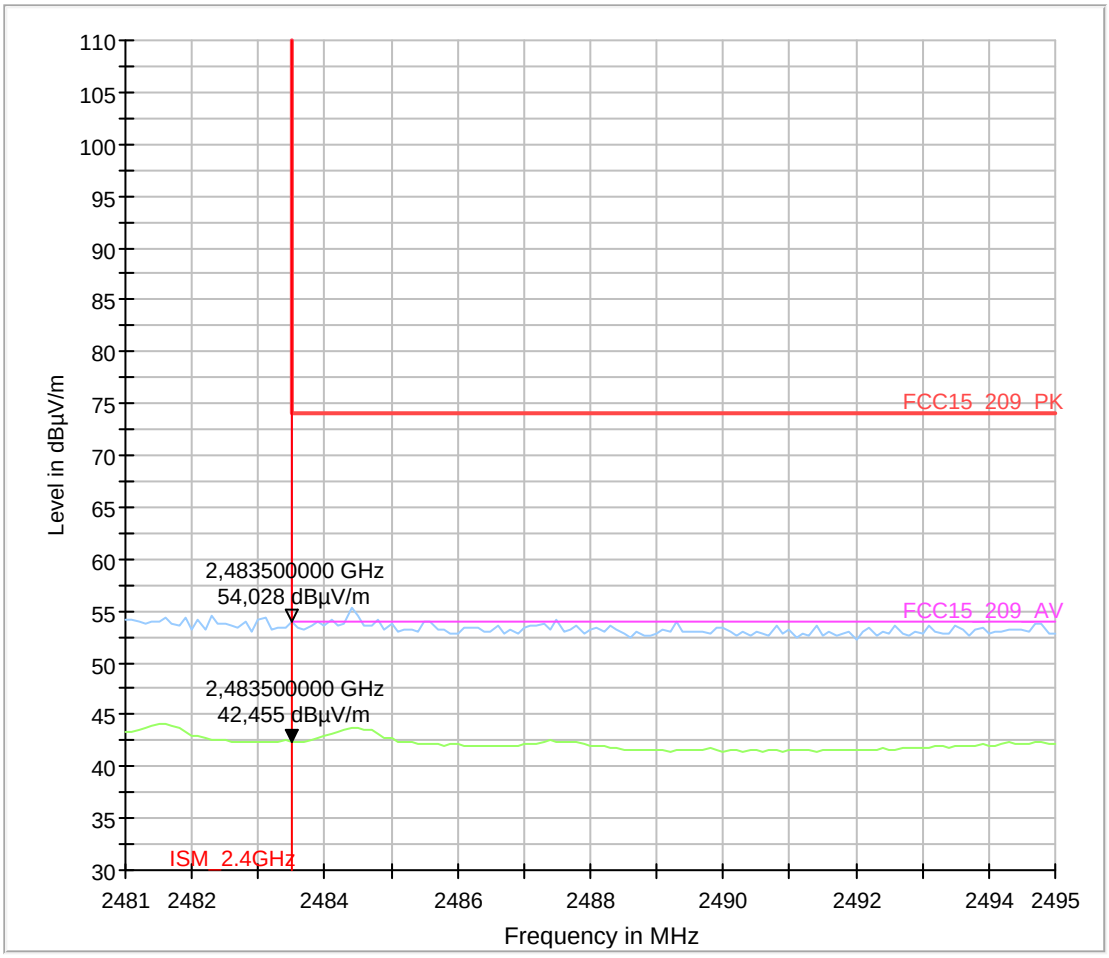
9.06_BE-RCM24G+PRESTTA Ant-MSK-250Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 250 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power +12 dBm
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



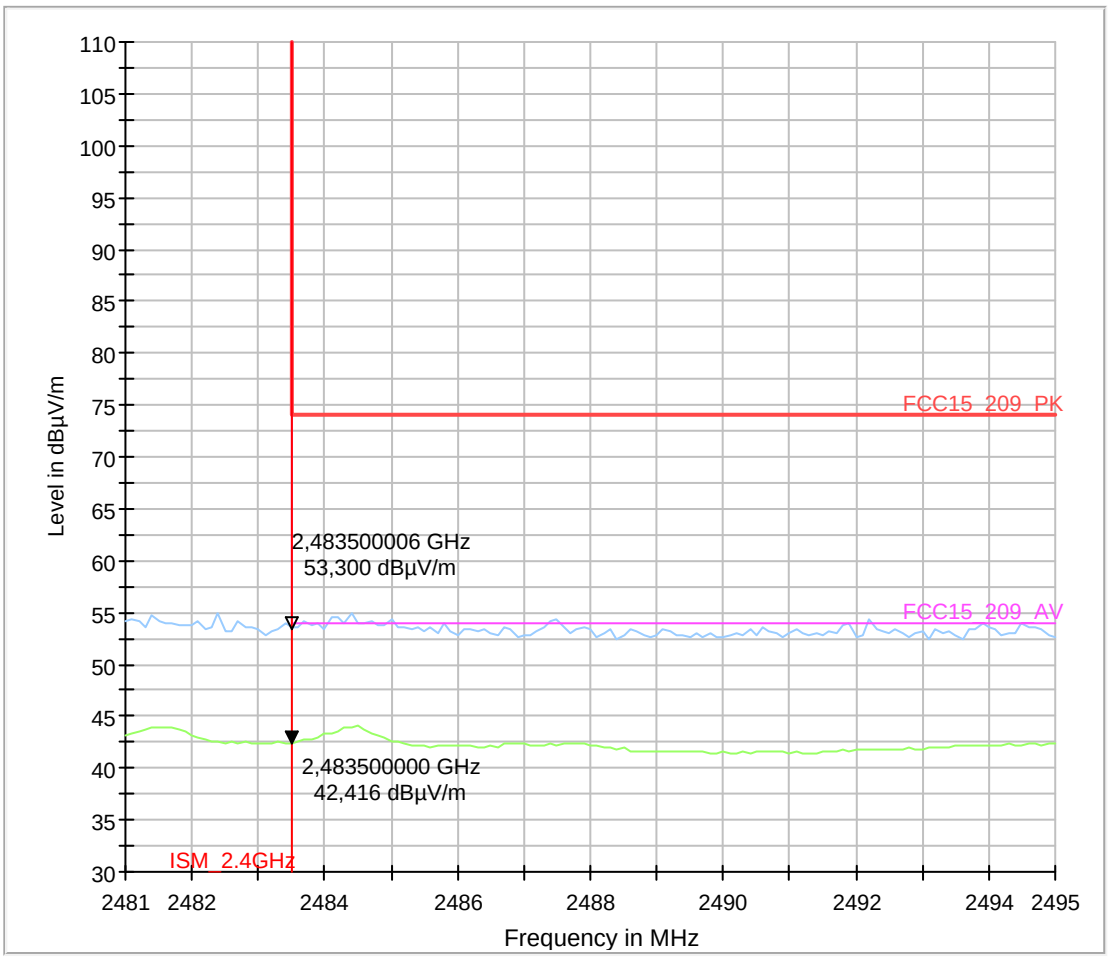
9.08_BE-RCM24G+PRESTTA Ant-MSK-500Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 500 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power +12 dBm
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



2.5.3. Low Channel Hopping Mode (2.4 GHz ISM: left band edge)

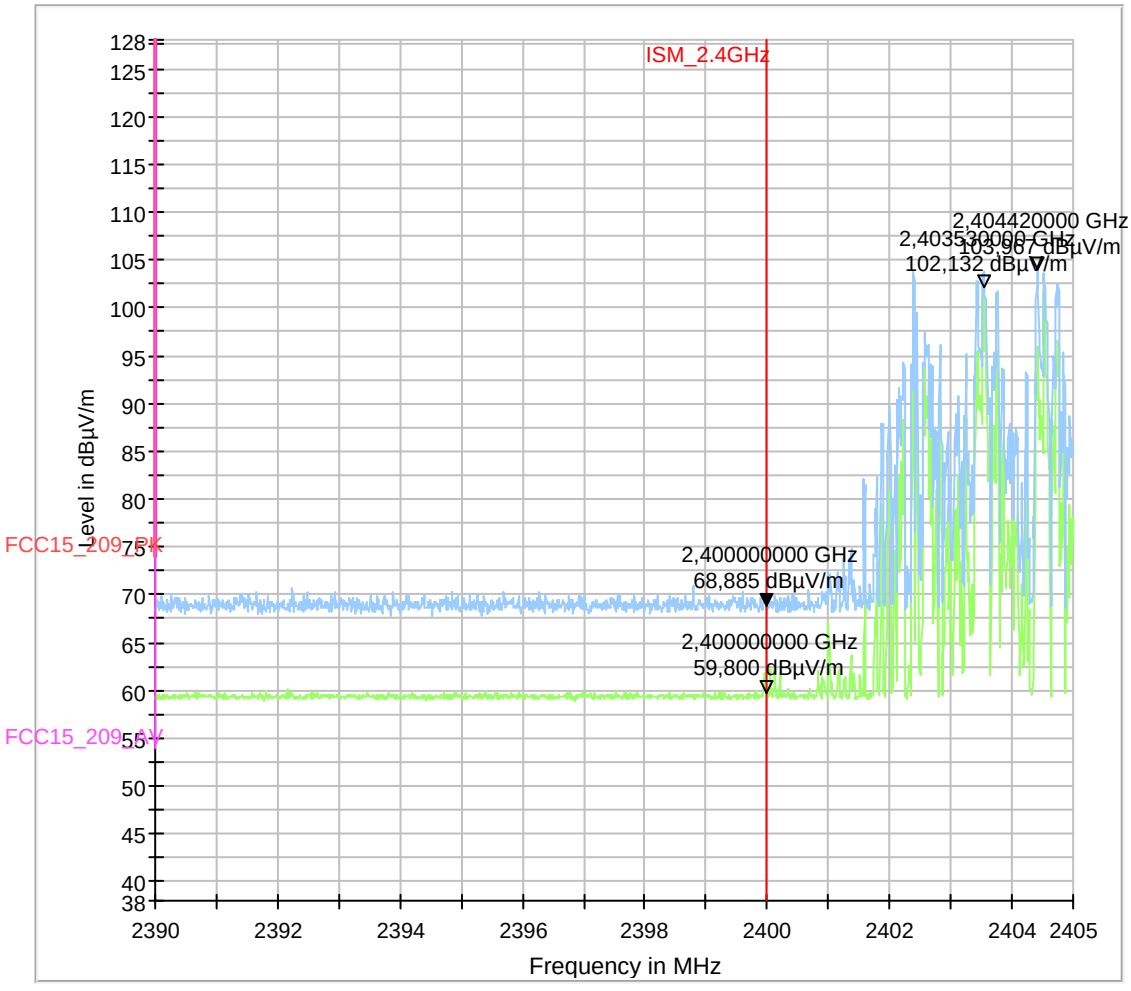
9.09a_BE-RCM24G+PRESTTA Ant-MSK-500Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 500 Kbps | Hopping Mode (Master)
Operator Name:	AFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3]

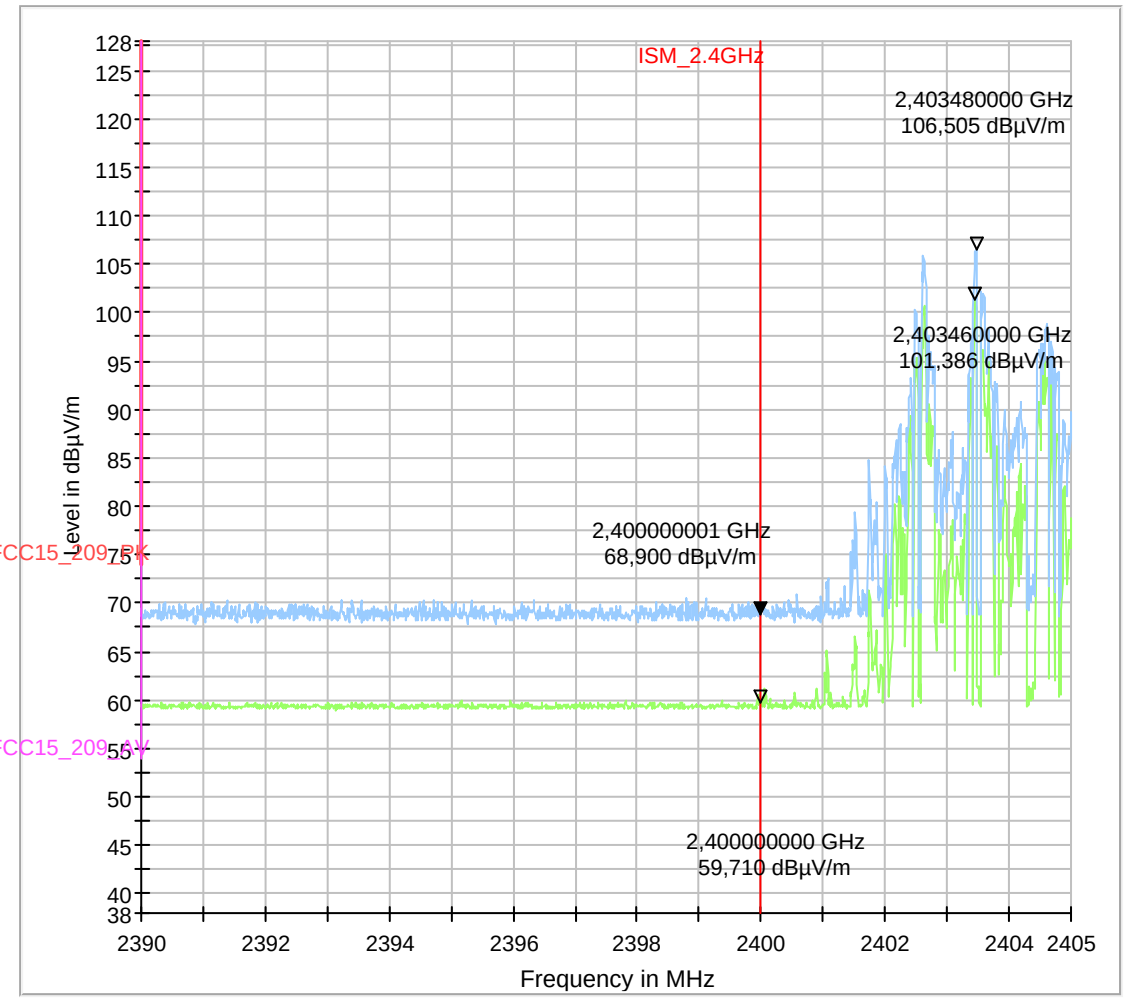
9.10a_BE-RCM24G+PRESTTA Ant-MSK-250Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 250 Kbps | Hopping Mode (Master)
Operator Name:	AFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3]

2.5.4. High Channel Hopping Mode (2.4 GHz ISM: left band edge)

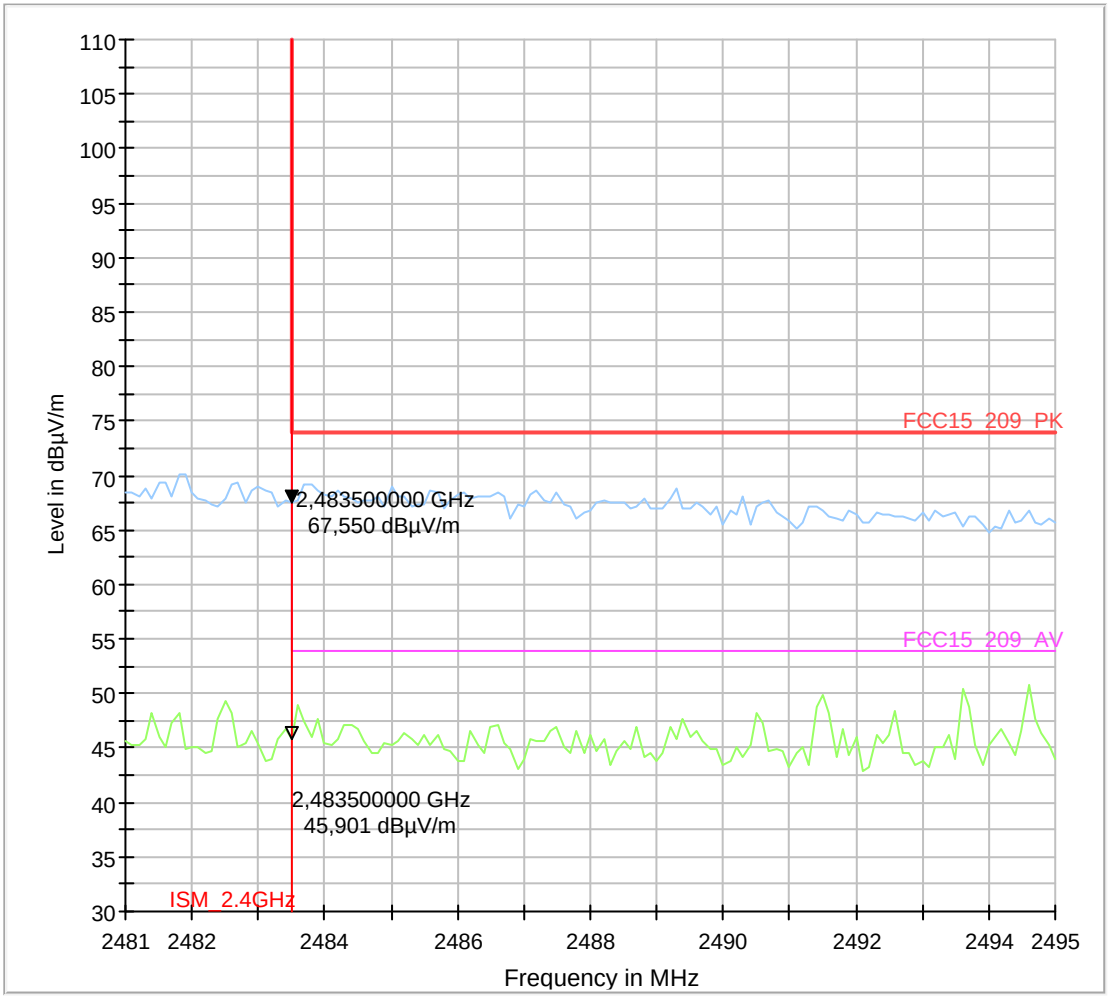
9.09b_BE-RCM24G+PRESTTA Ant-MSK-500Kbps-High

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 500 Kbps | Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



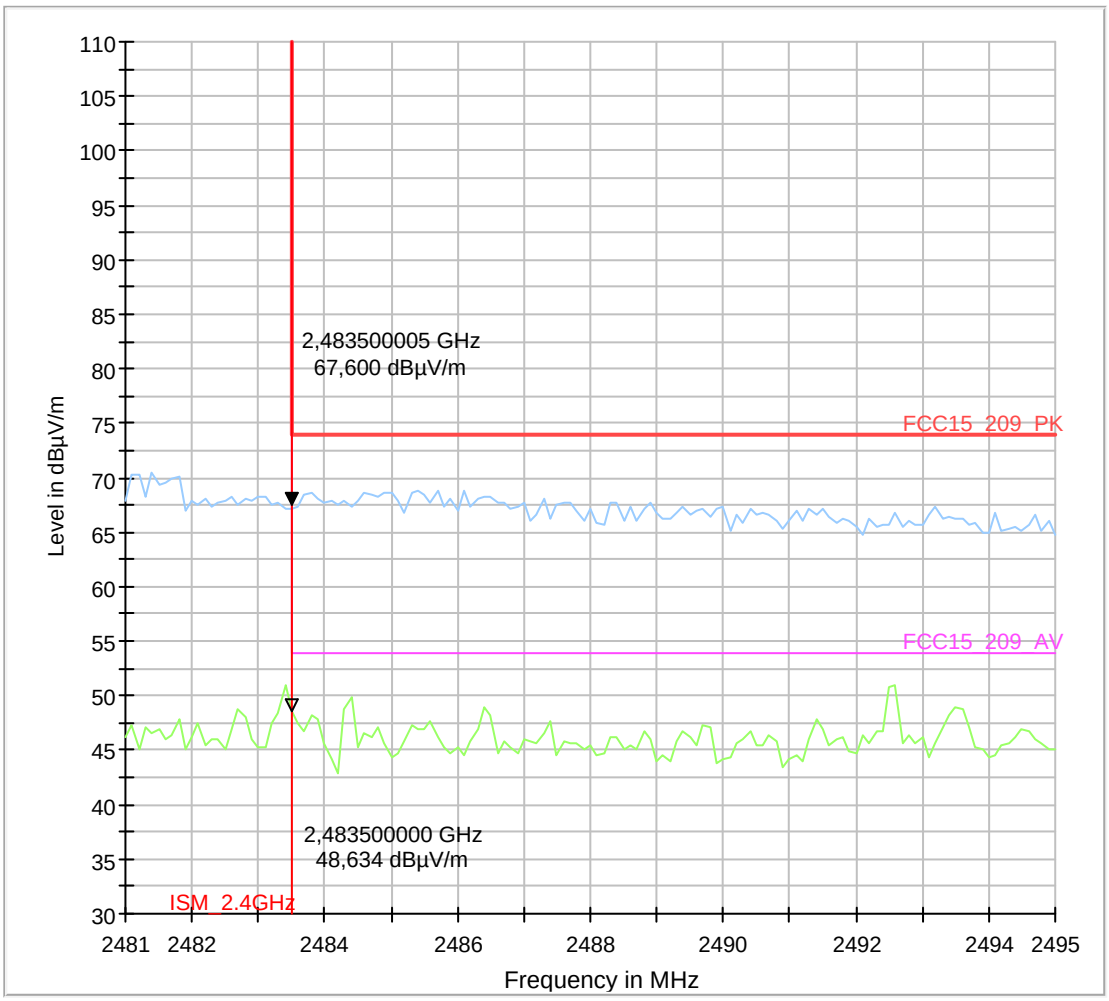
9.10b_BE-RCM24G+PRESTTA Ant-MSK-250Kbps-High

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK | 250 Kbps | Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



Radiated Field Strength Measurements

RCM24G
+
INTEL FA5 ANTENNA PORT 1

3. Radiated Field Strength Measurements-RCM24G + INTEL FA5 ANTENNA-PORT 1

3.1. Radiated Field Strength Emissions - 9kHz to 30MHz

2.11_RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps-Ch0-PWR +12dBm

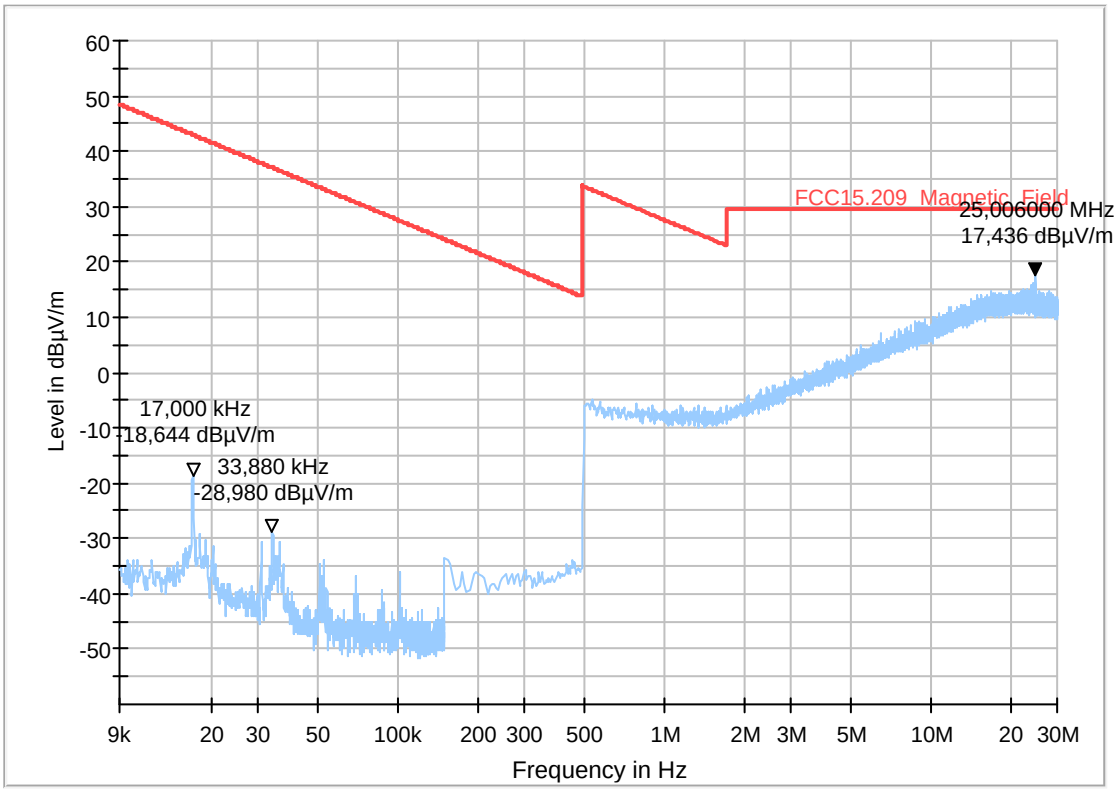
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFr
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ohm terminations.

Full Spectrum



2.12_RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch69-PWR+12dBm

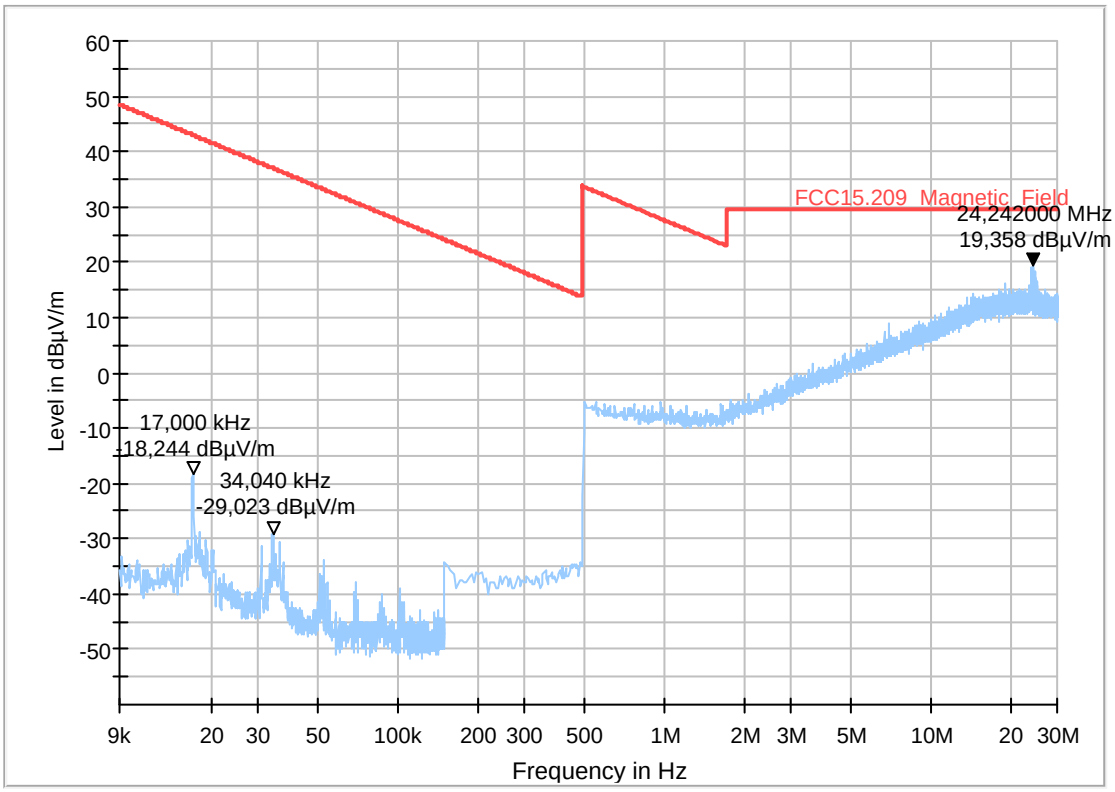
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFr
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ohm terminations.

Full Spectrum



2.13_RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR +12dBm

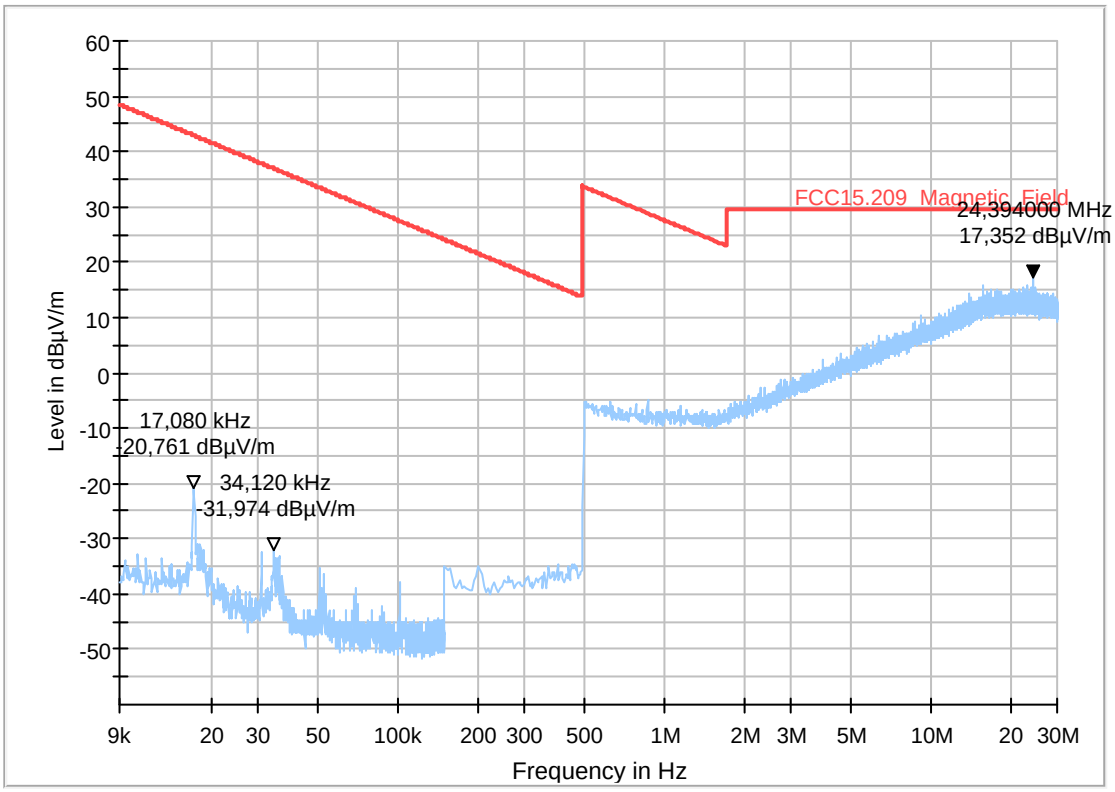
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFr
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ohm terminations.

Full Spectrum



2.14_RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch34-PWR +21dBm

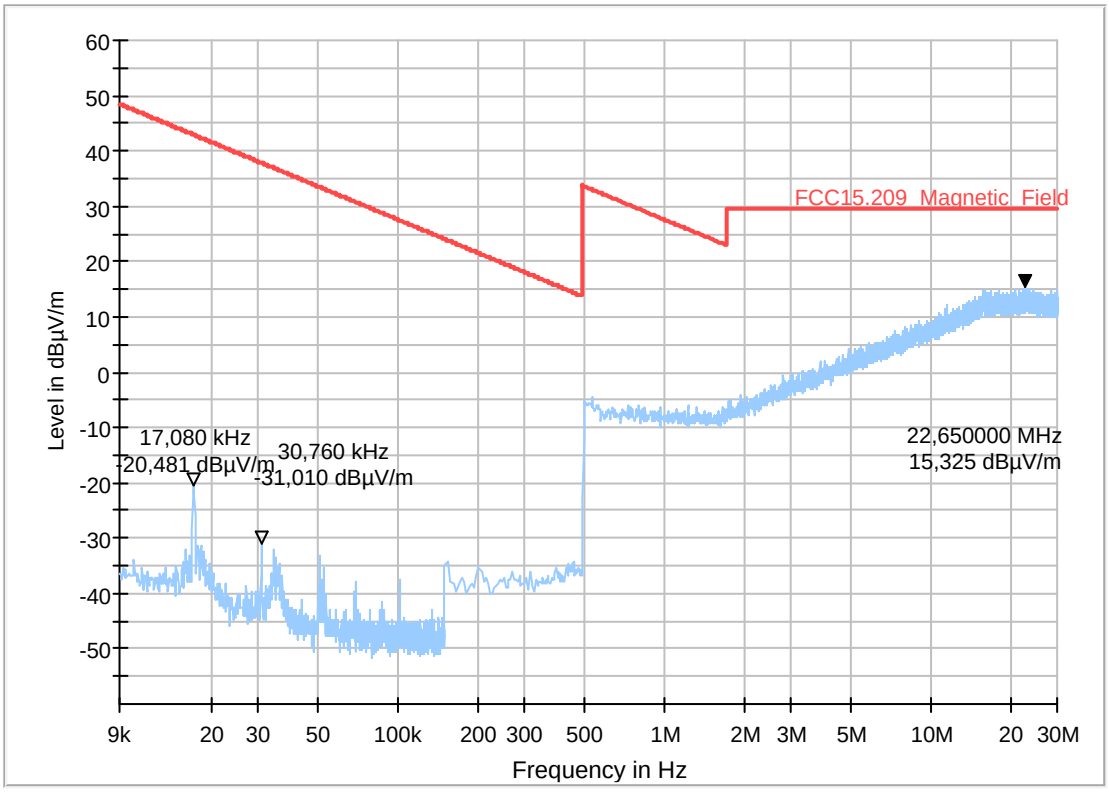
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFr
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm
Power during tests:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ohm terminations.

Full Spectrum



3.2. Radiated Field Strength Emissions - 30MHz to 1GHz

3.11_RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps-Ch0-PWR +12dBm

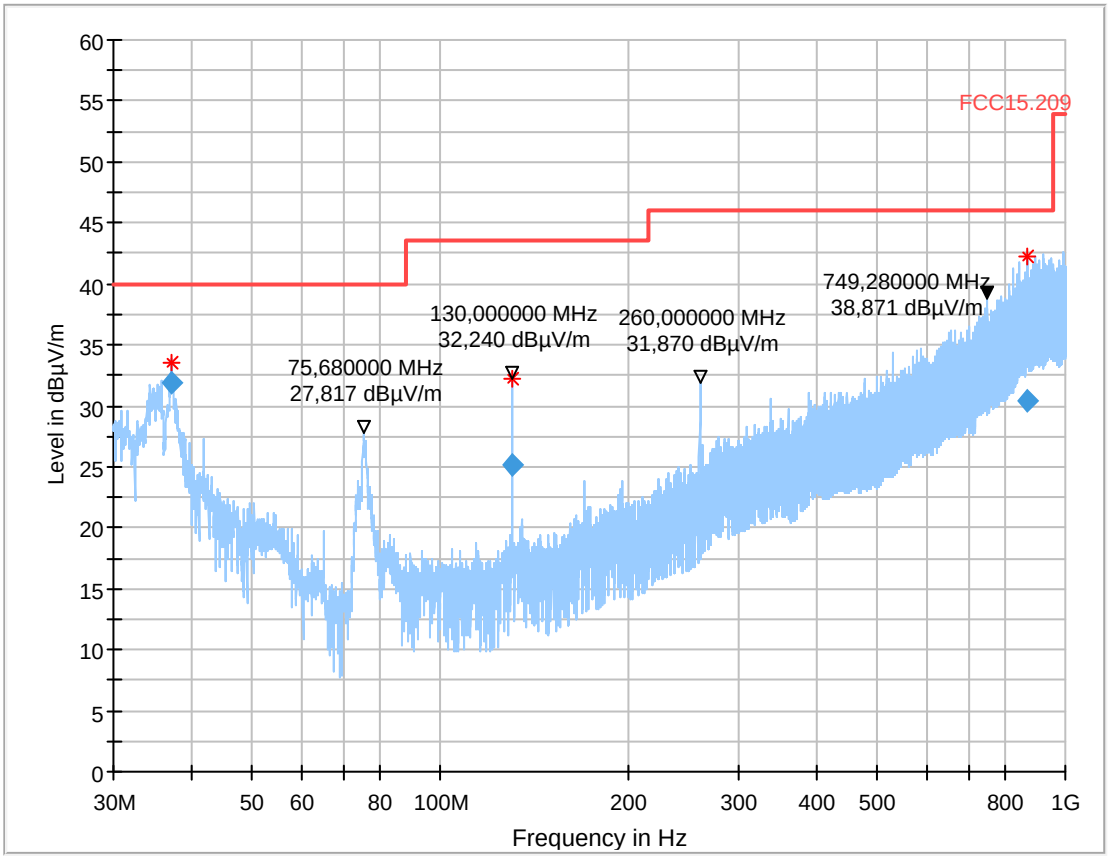
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	APh
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK | 50 Kbps |0 (2402.5 MHz) Fixed Channel (modulated) Power:+12dBm
Power during tests:	3.6 V DC Using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ohm terminations.

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
37.172000	31.92	40.00	8.08	1000.0	120.000	283.0	V	143.0	90.0	18.3
130.000000	25.13	43.50	18.37	1000.0	120.000	245.0	H	342.0	0.0	9.0
867.120000	30.37	46.00	15.63	1000.0	120.000	360.0	V	81.0	90.0	26.0

3.12_RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch69-PWR+12dBm

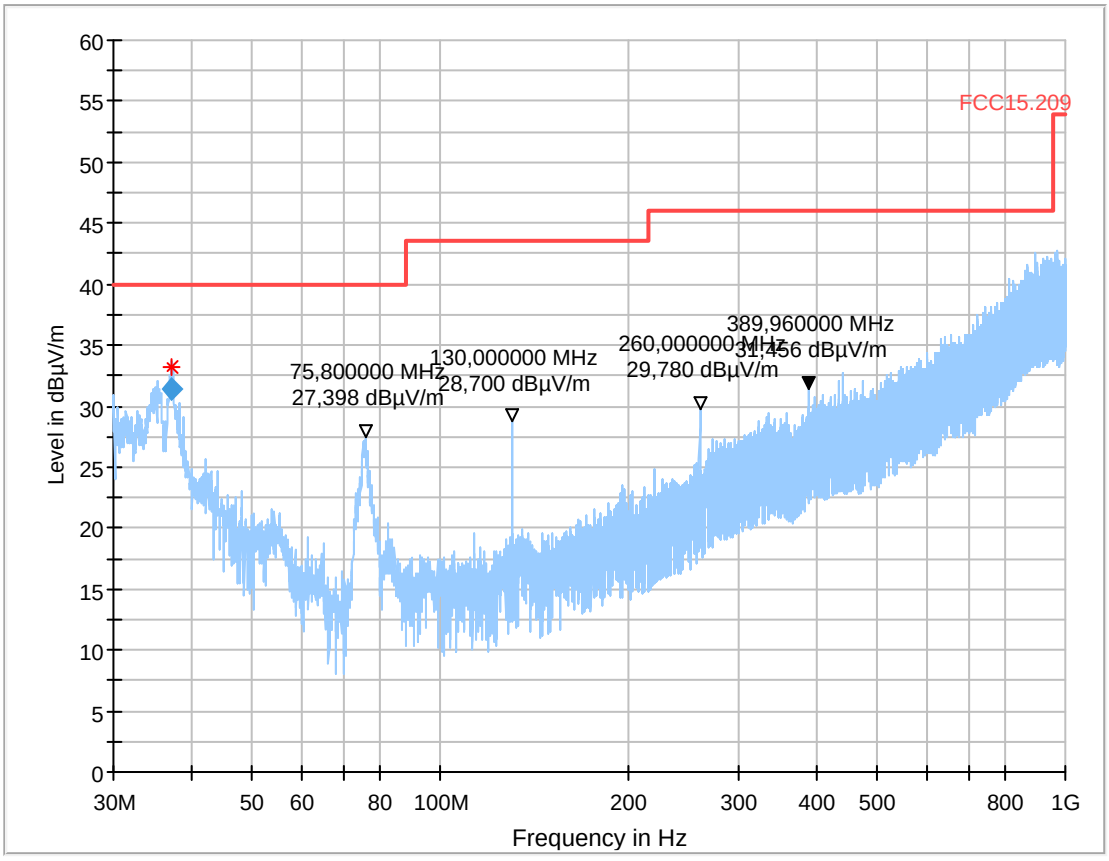
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	APh
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC Using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ohm terminations.

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
37.256000	31.32	40.00	8.68	1000.0	120.000	292.0	H	117.0	90.0	18.3

3.13_RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR +12dBm

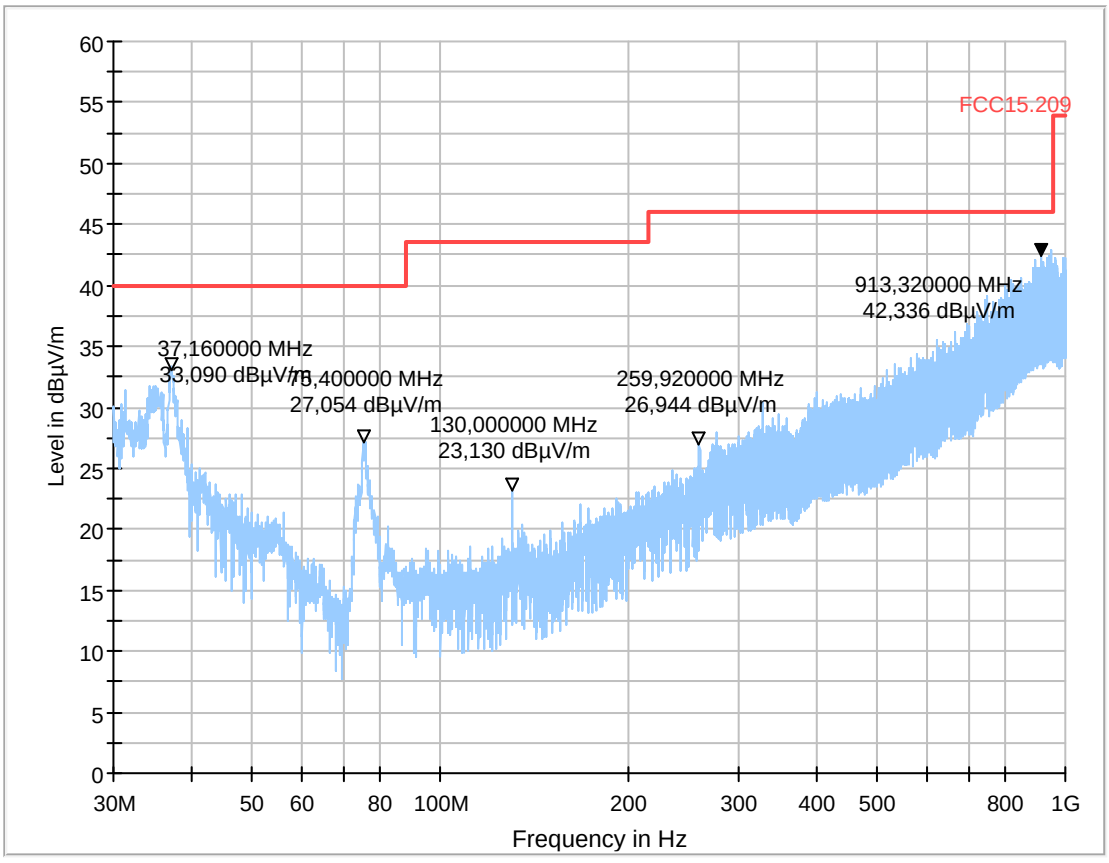
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	APh
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC Using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ohm

Full Spectrum



3.14_RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch34-PWR +21dBm

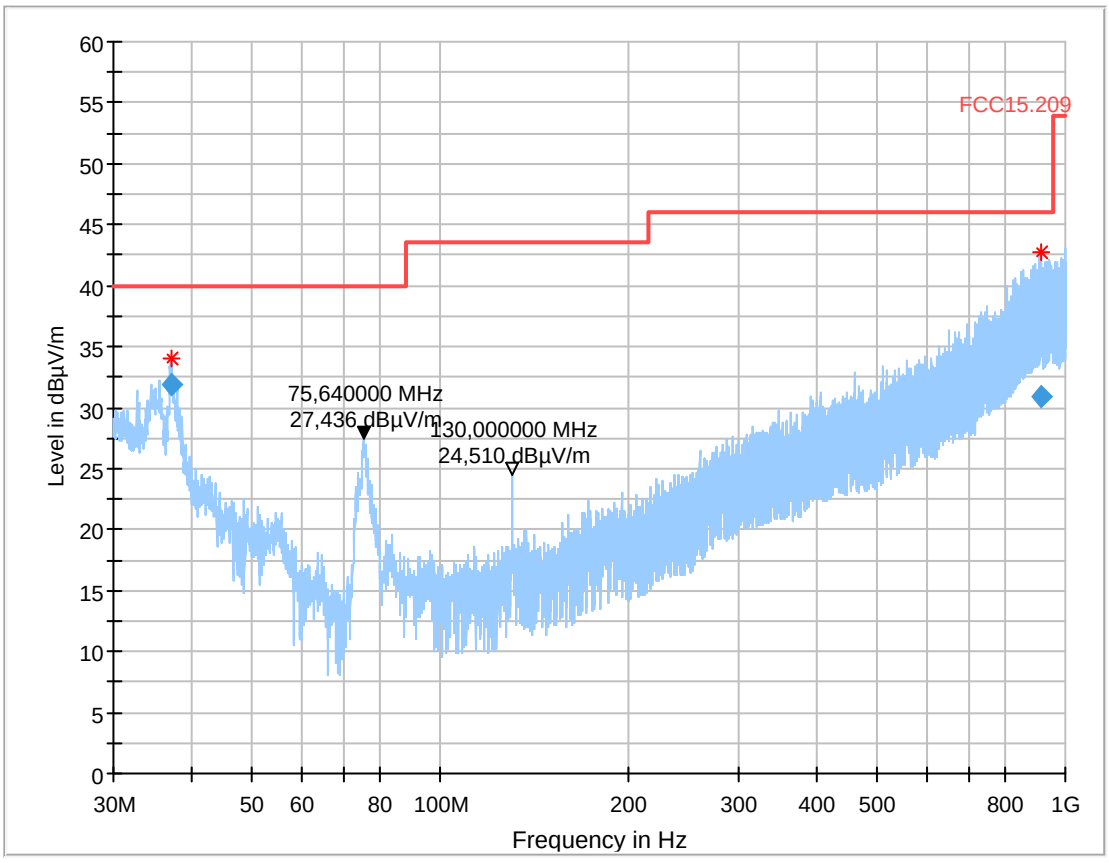
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	AFr
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm
Power during tests:	3.6 V DC Using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ohm

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
37.040000	31.85	40.00	8.15	1000.0	120.000	294.0	V	117.0	0.0	18.4
912.392000	30.92	46.00	15.08	1000.0	120.000	273.0	V	111.0	90.0	26.7

3.3. Radiated Field Strength Emissions - 1GHz to 18GHz

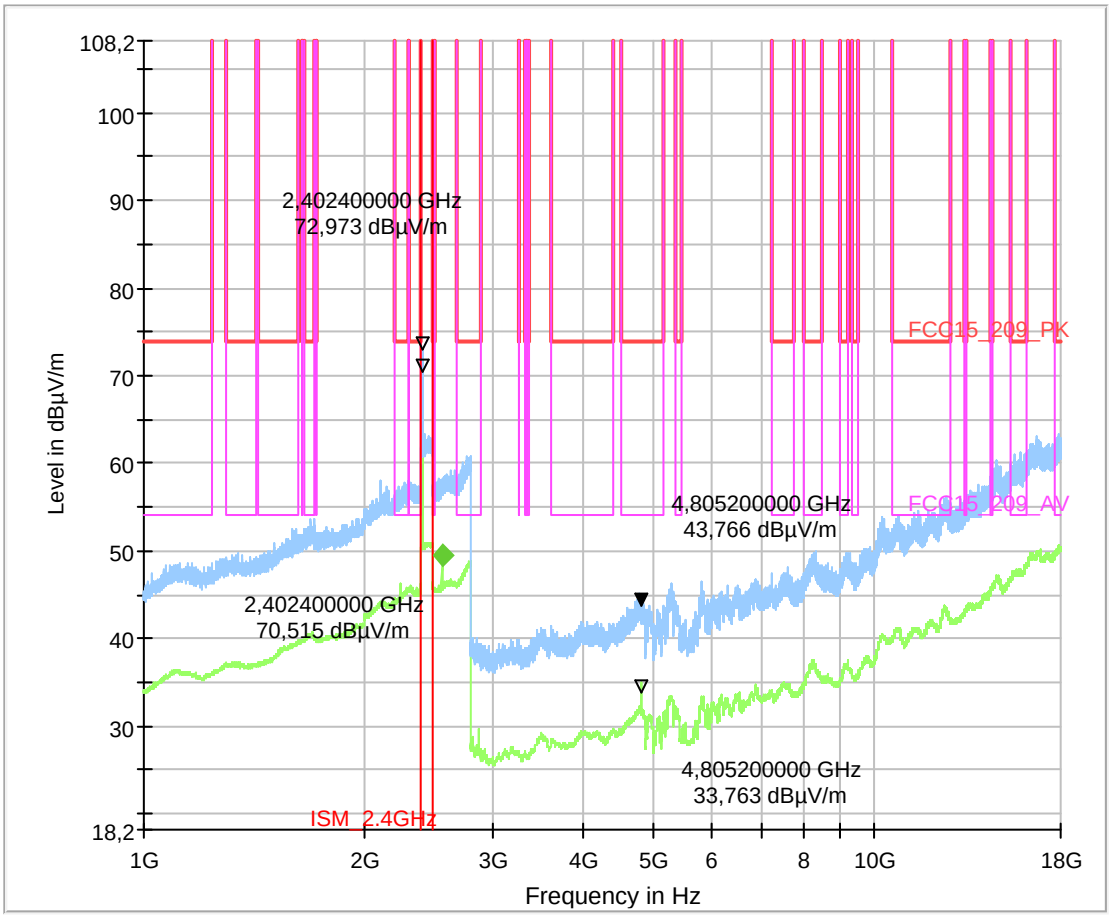
4.11_RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps-Ch0-PWR +12dBm

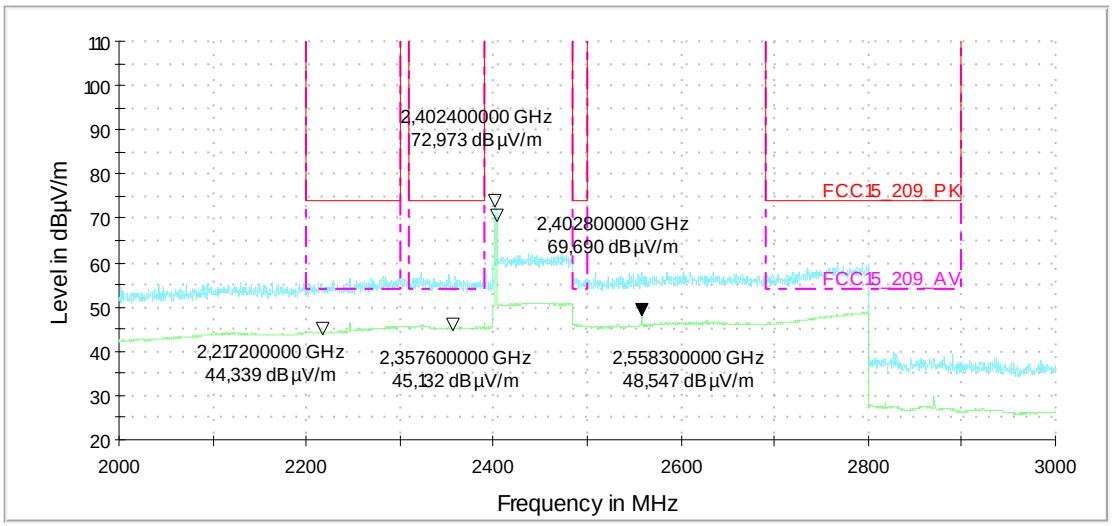
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power +12dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5| 2| 3| 4) are terminated with 50 Ohm





Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2558.550000	49.59	150.00	100.41	100.0	1000.000	155.0	H	58.0	90.0	36.0

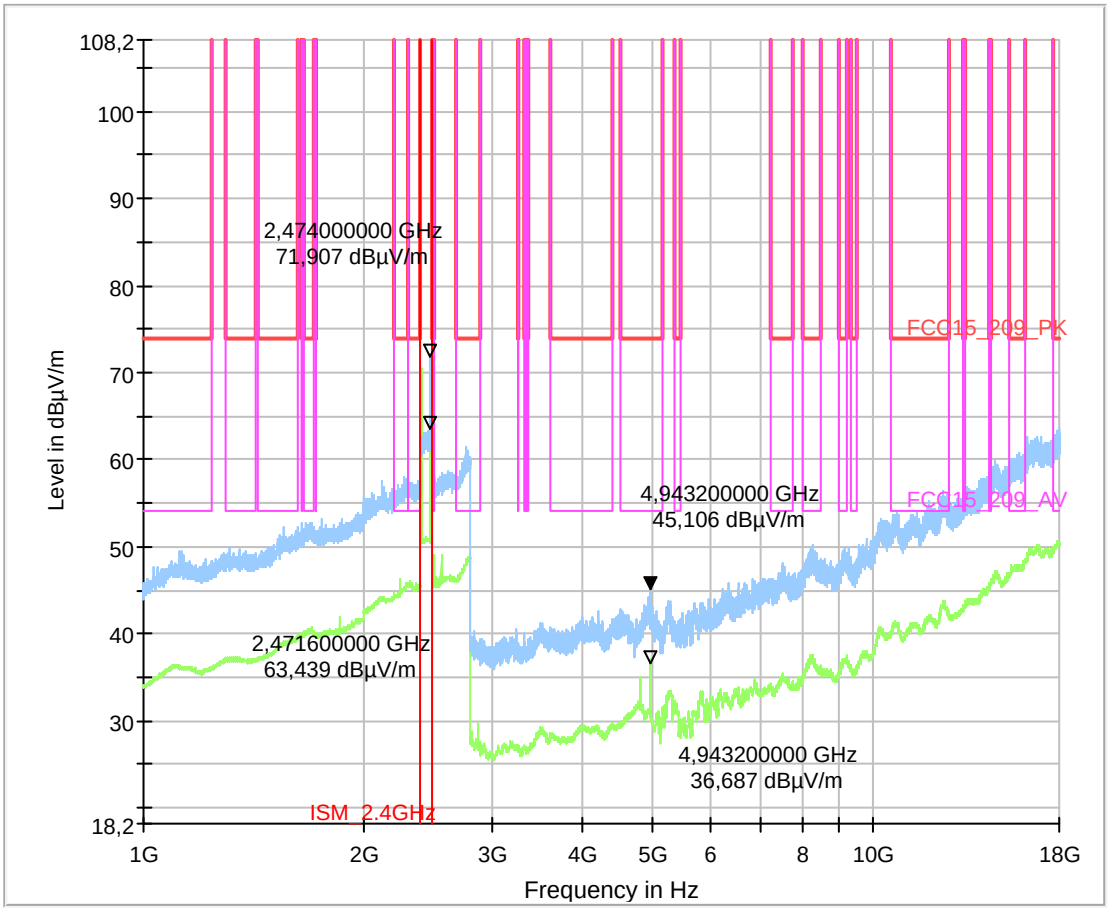
4.12_RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch69-PWR +12dBm

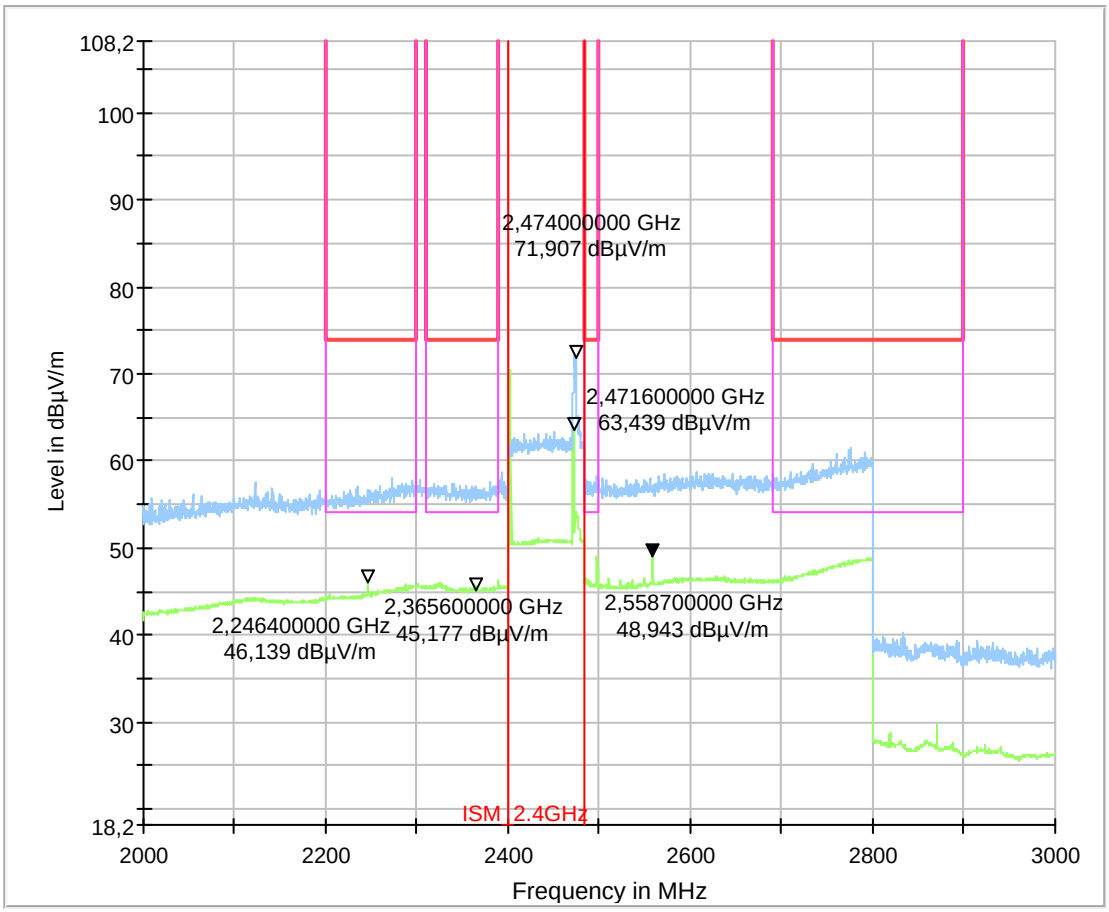
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power +12dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5| 2| 3| 4) are terminated with 50 Ohm




108,2
100
90
80
70
60
50
40
30
18,2
Level in dBµV/m
2000
2200
2400
2600
2800
3000
Frequency in MHz
2,474000000 GHz
71,907 dBµV/m
2,471600000 GHz
63,439 dBµV/m
2,246400000 GHz
46,139 dBµV/m
2,365600000 GHz
45,177 dBµV/m
2,558700000 GHz
48,943 dBµV/m
ISM 2.4GHz

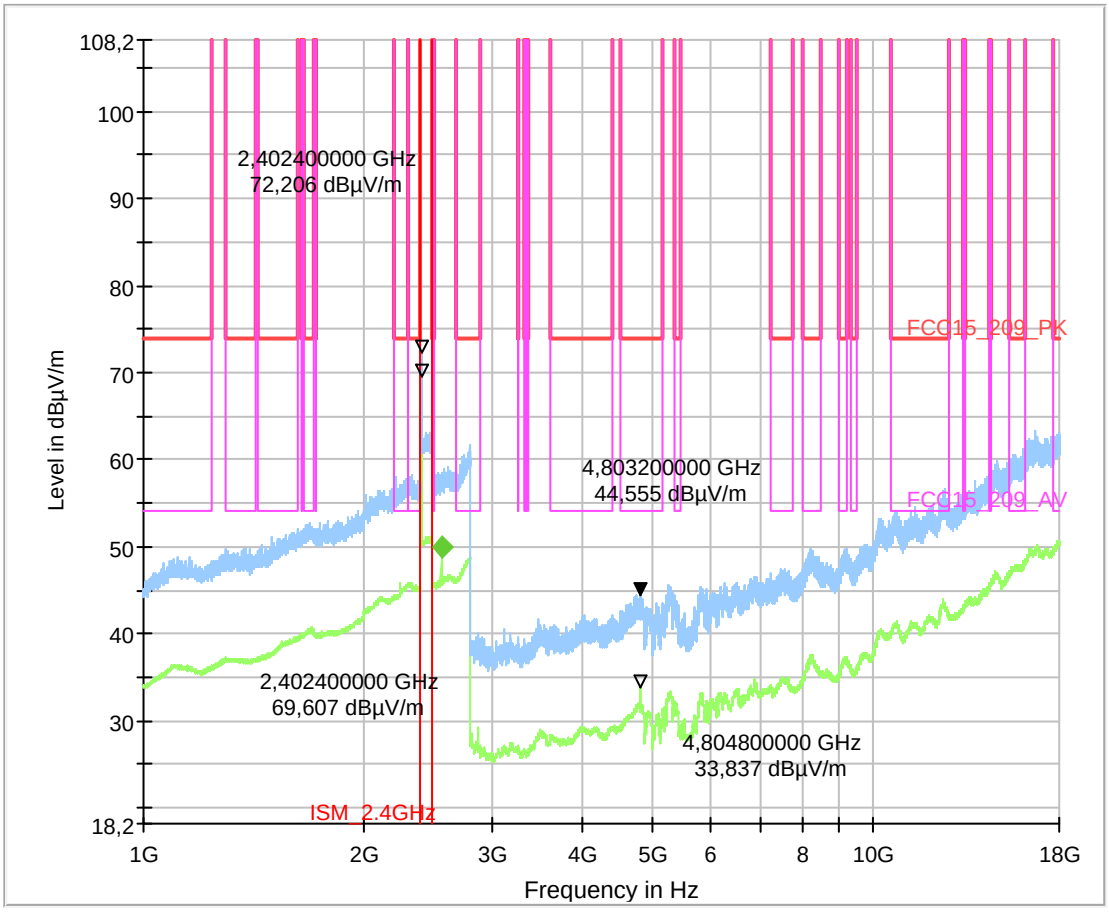
4.13_RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR +12dBm

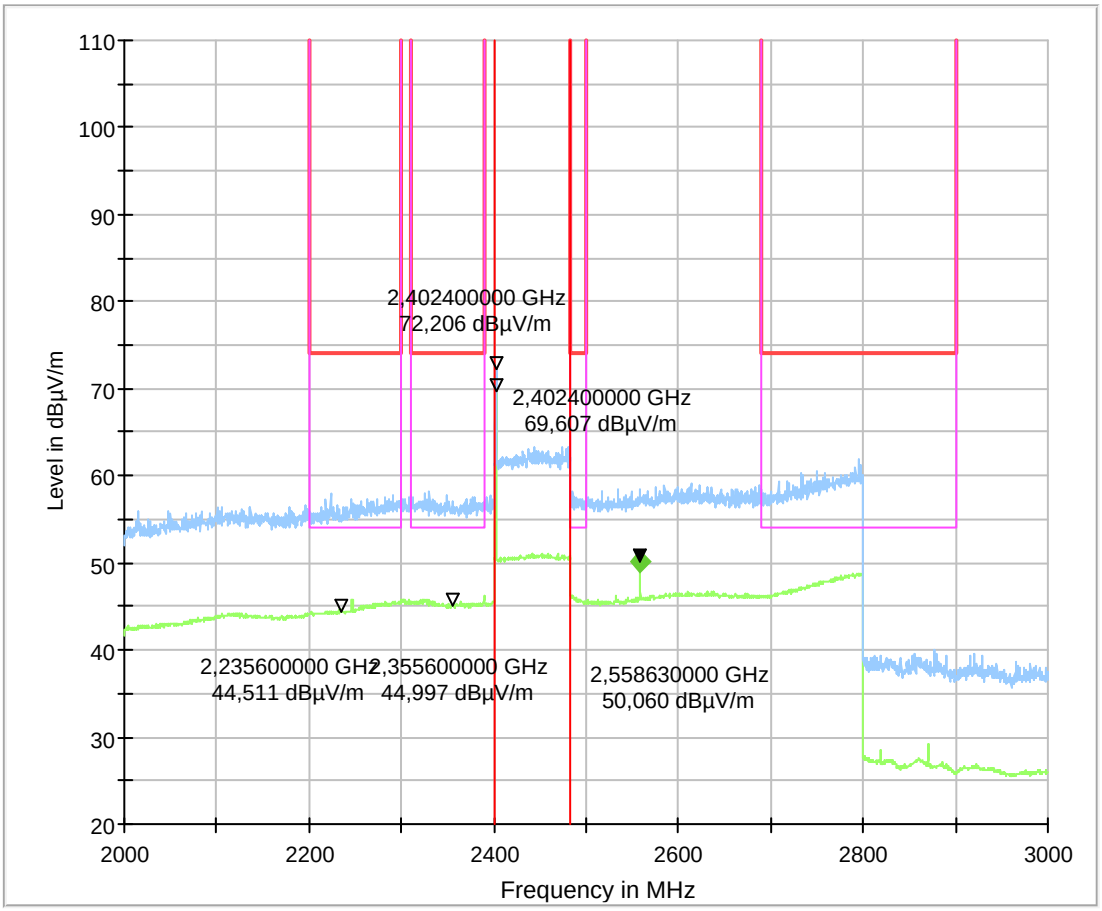
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power +12dBm
Operator Name:	TFr
Measurements Perfomed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5| 2| 3| 4) are terminated with 50 Ohm





Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2558.630000	50.06	150.00	99.94	100.0	1000.000	155.0	V	200.0	0.0	36.0

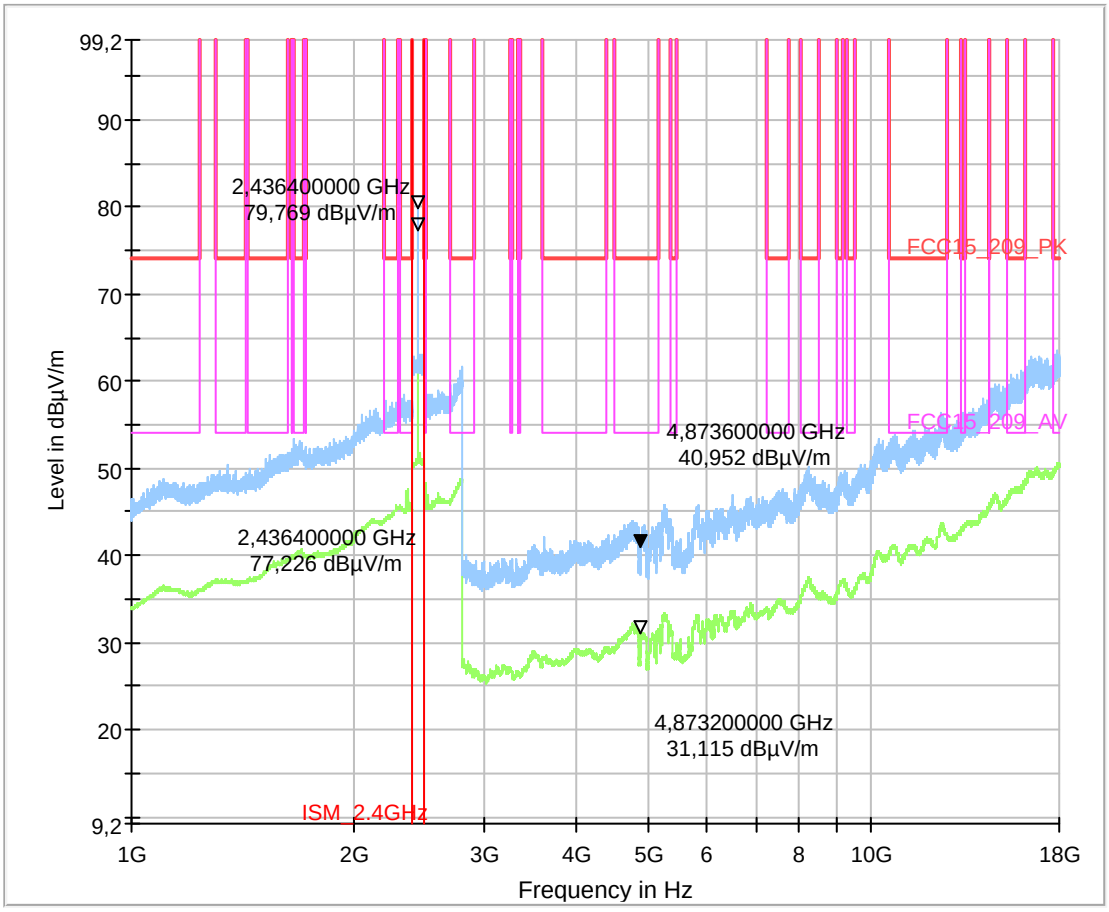
4.14_RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch34-PWR +21dBm

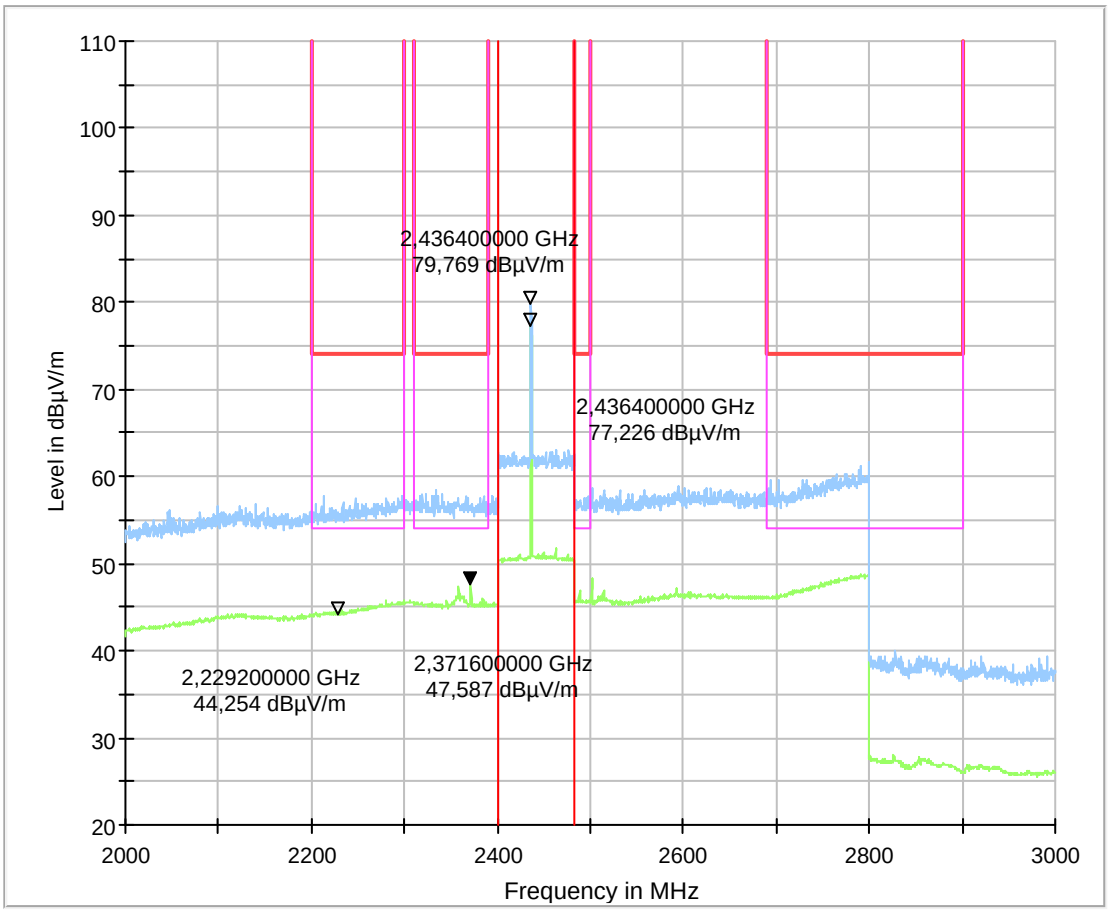
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated) Power +21dBm
Operator Name:	TFr
Measurements Perfomed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5| 2| 3| 4) are terminated with 50 Ohm




110
100
90
80
70
60
50
40
30
20
Level in dBµV/m
2000
2200
2400
2600
2800
3000
Frequency in MHz
2,436400000 GHz
79,769 dBµV/m
2,436400000 GHz
77,226 dBµV/m
2,229200000 GHz
44,254 dBµV/m
2,371600000 GHz
47,587 dBµV/m

3.4. Radiated Field Strength Emissions - 18GHz to 25GHz

4.11a_RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps-Ch0-PWR +12dBm

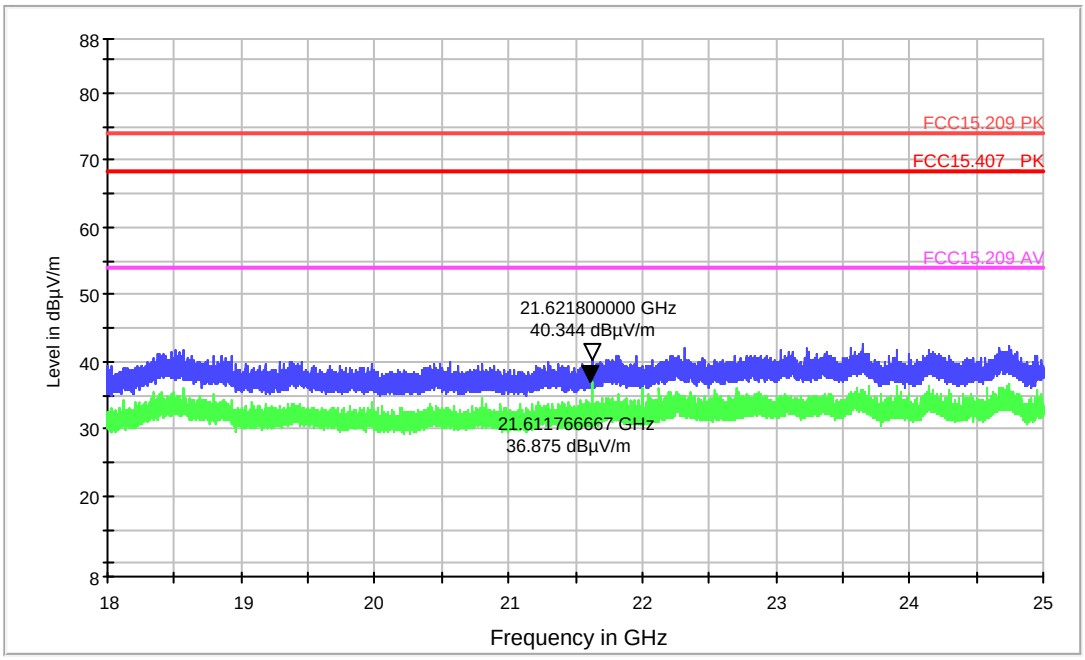
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.12a_RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch69-PWR+12dBm

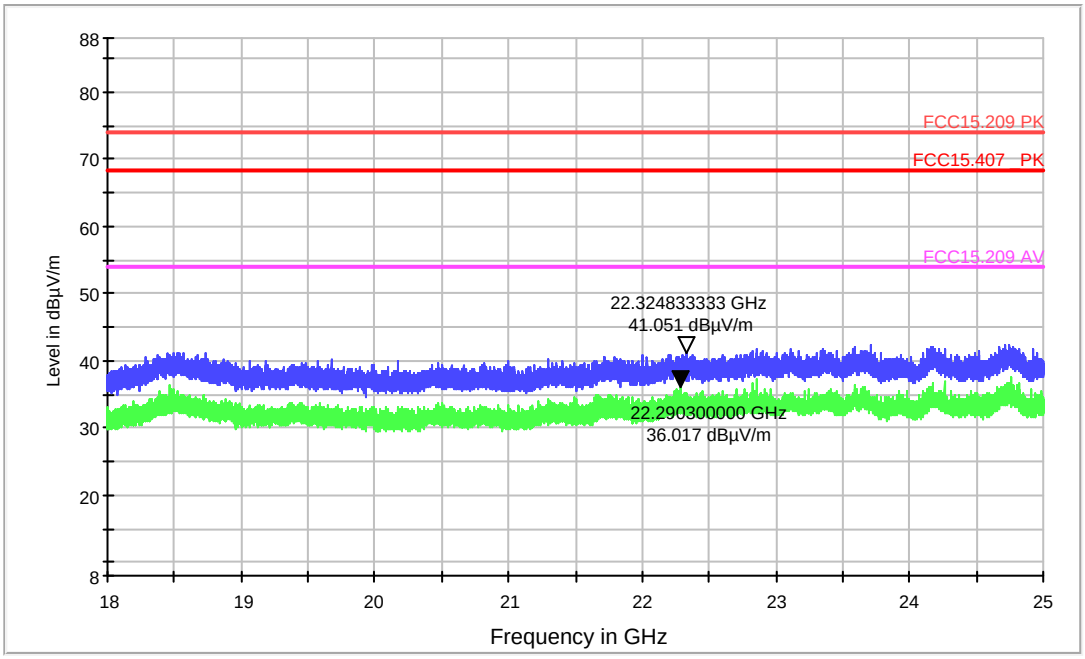
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.13a_RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR +12dBm

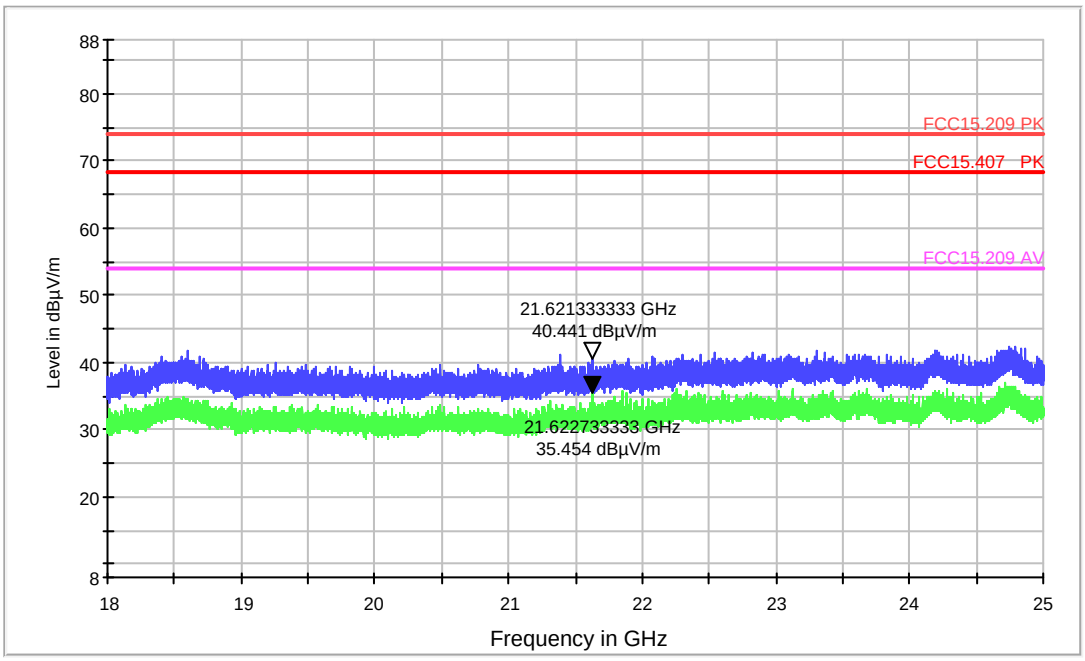
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.14a_RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch34-PWR +21dBm

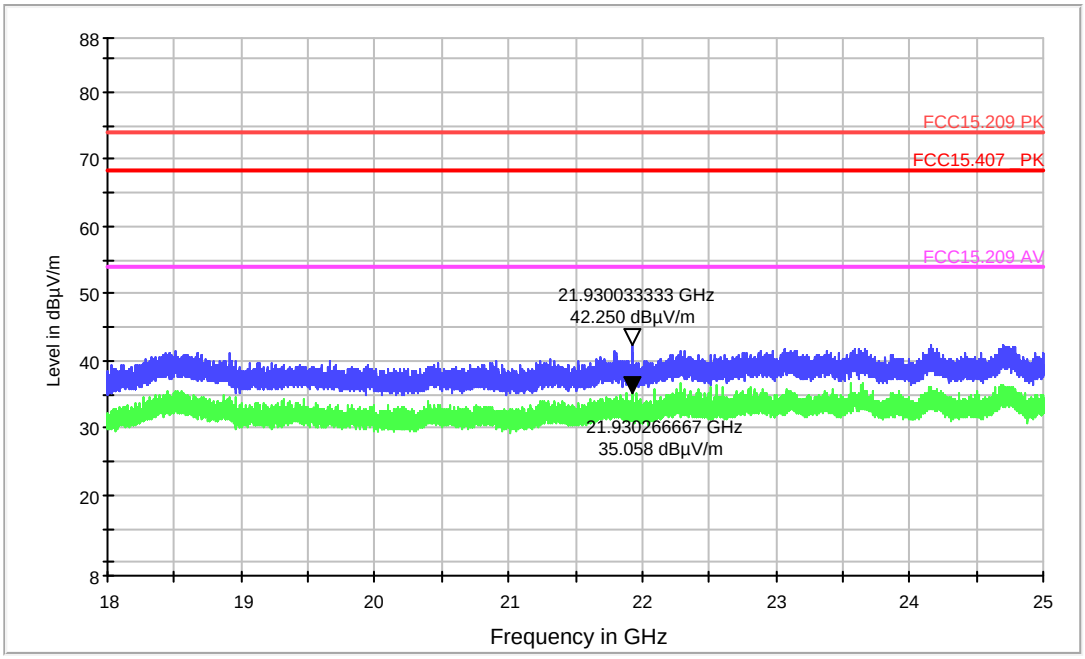
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



3.5. Radiated Band-Edge Measurements

3.5.1. Low Channel 2402.5 MHz (2.4 GHz ISM: left band edge)

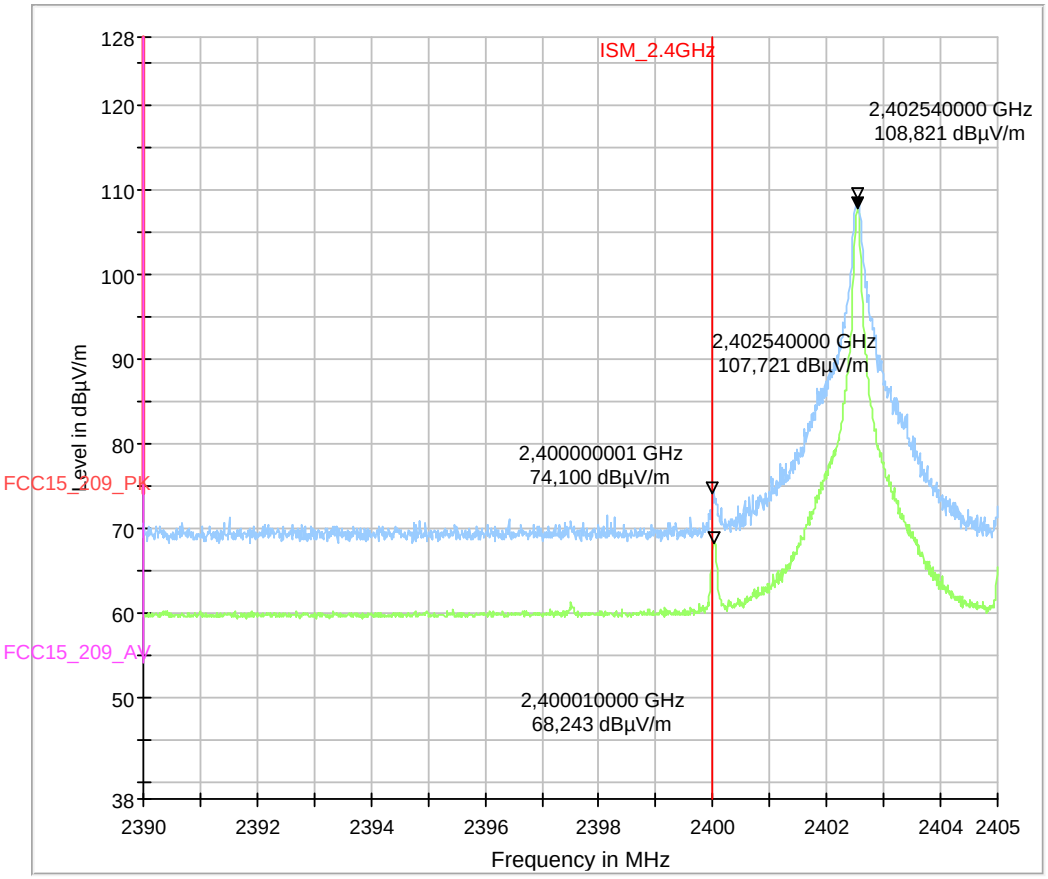
9.11_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps- Ch0-PWR+12 dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power +12dBm
Operator Name:	TFr
Comment:	Channel low

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 3.3 **4.11_RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps-Ch0-PWR +12dBm**]

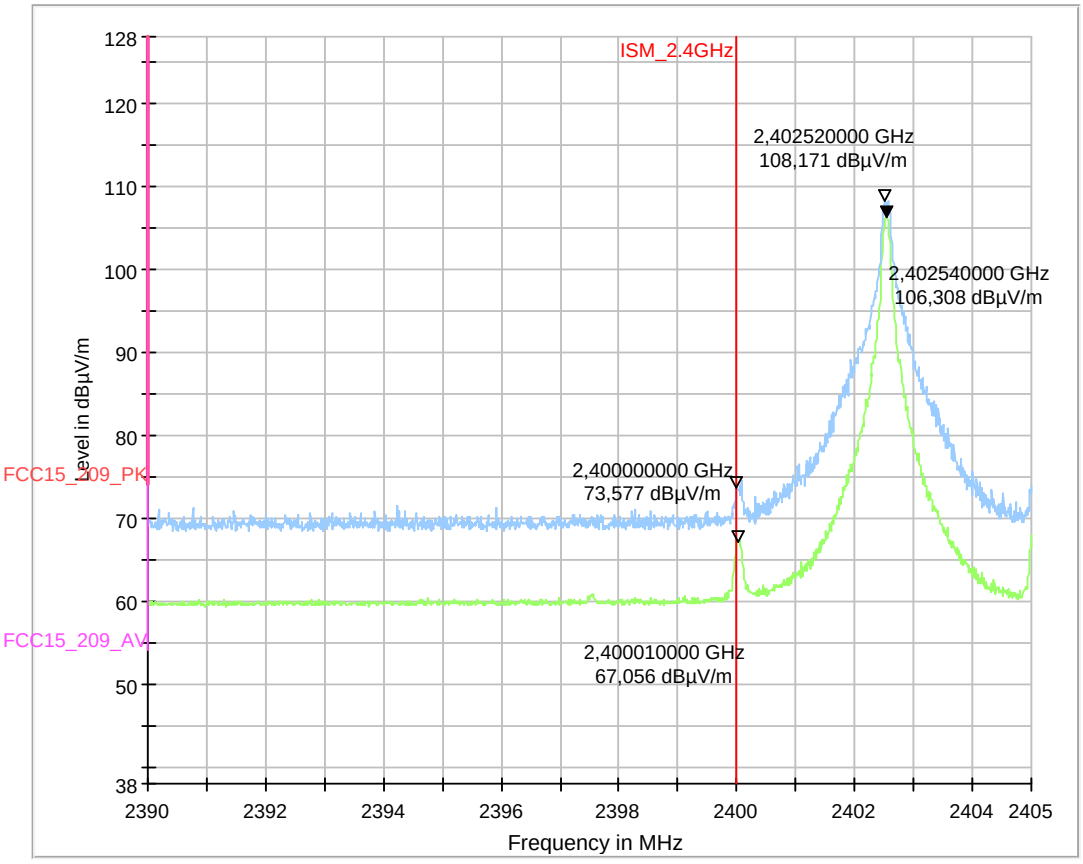
9.13_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch0-PWR+12 dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	MSK | 100 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power +12dBm
Operator Name:	TFr
Comment:	Channel low

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Commetns:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ω.



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 3.3 **4.12_RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch69- PWR +12dBm**]

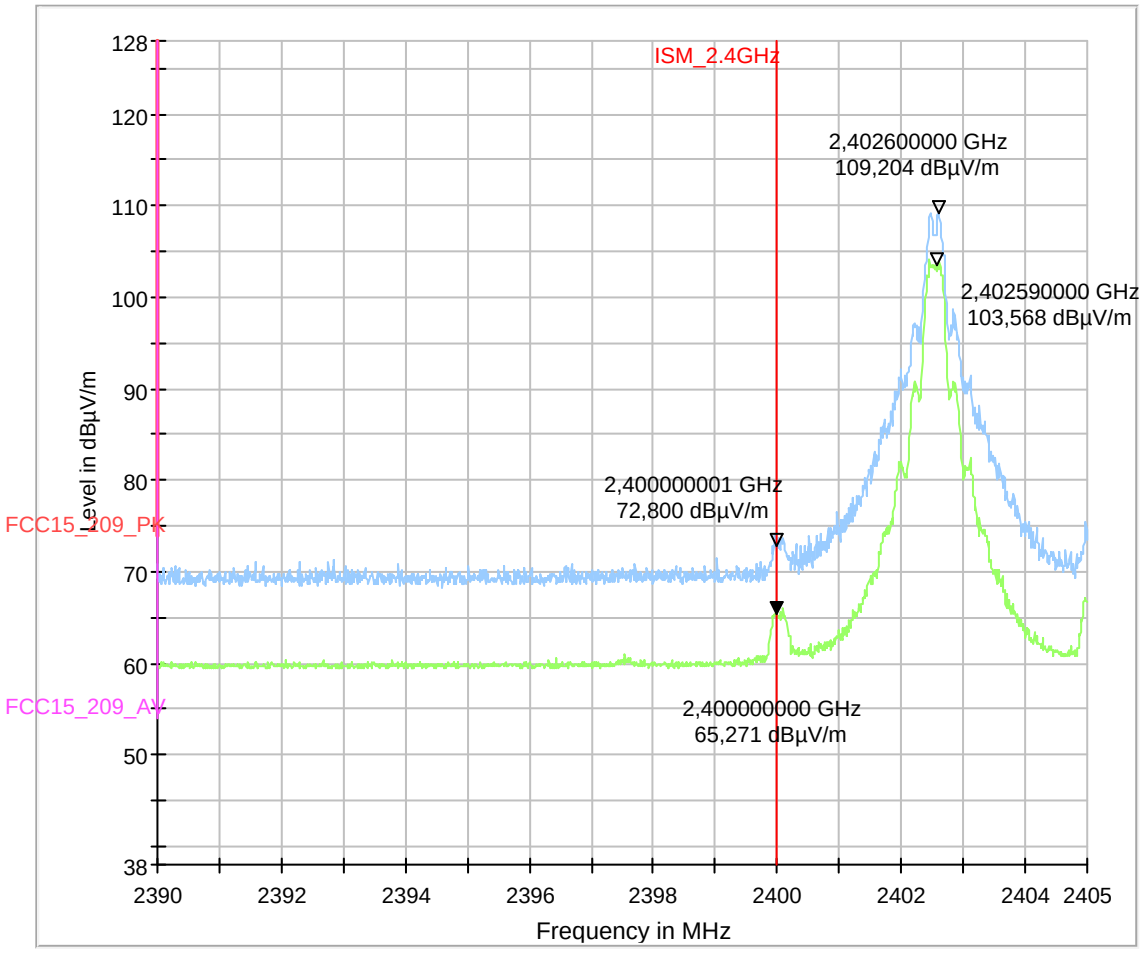
9.15_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR+12 dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 100 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated)| Power:+12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ω.



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 3.3 **4.13_RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR +12dBm**]

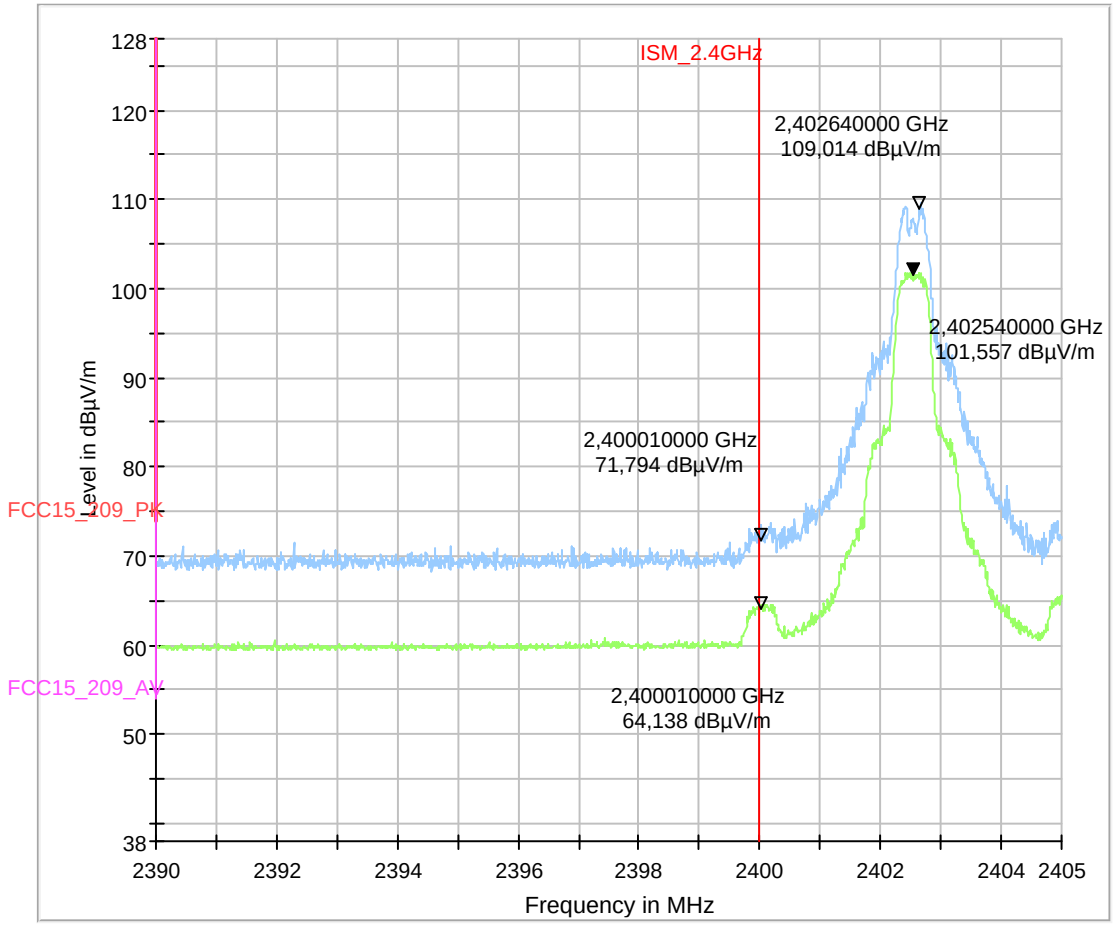
9.17_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch0-PWR+12 dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 500 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power 12 dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ω.



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 3.3
4.14_RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch34- PWR +21dBm]

3.5.2. High Channel 2471.5 MHz (2.4 GHz ISM: right band edge)

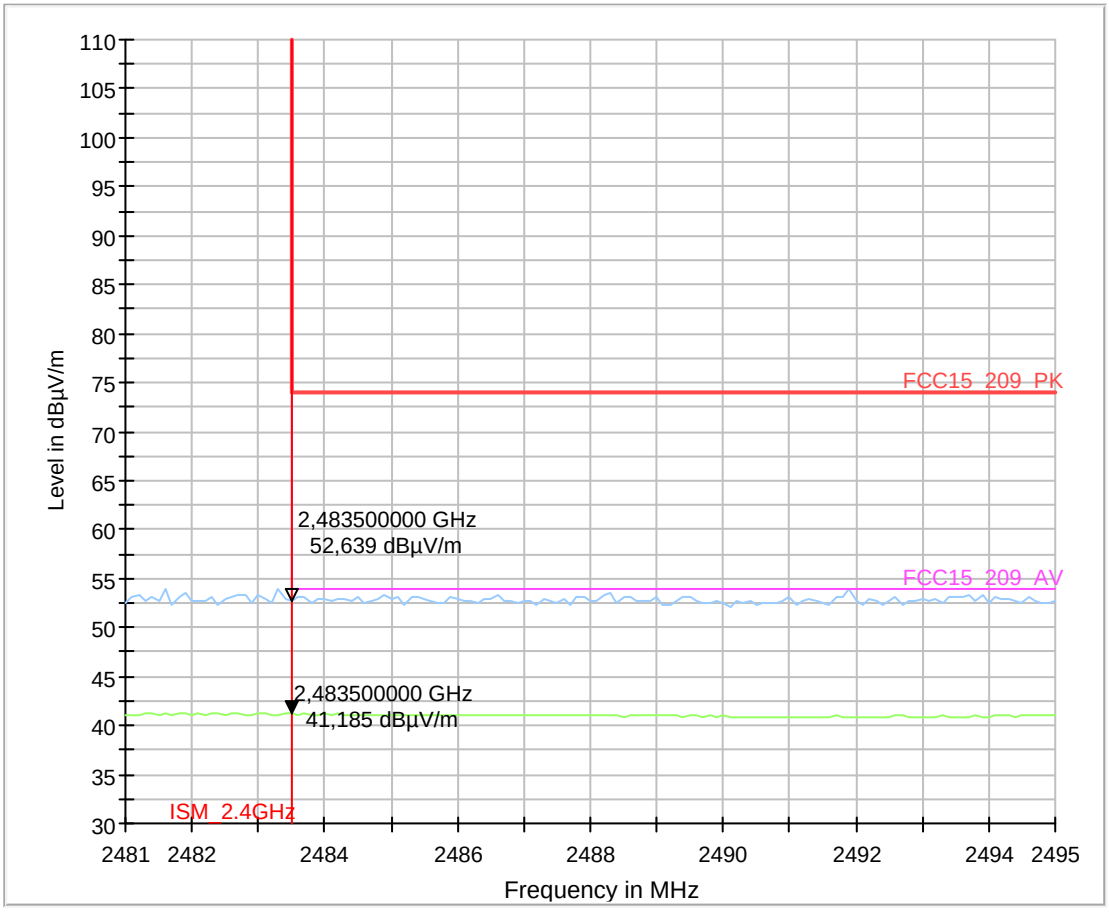
9.12_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 50 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power 12 dBm
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ω.



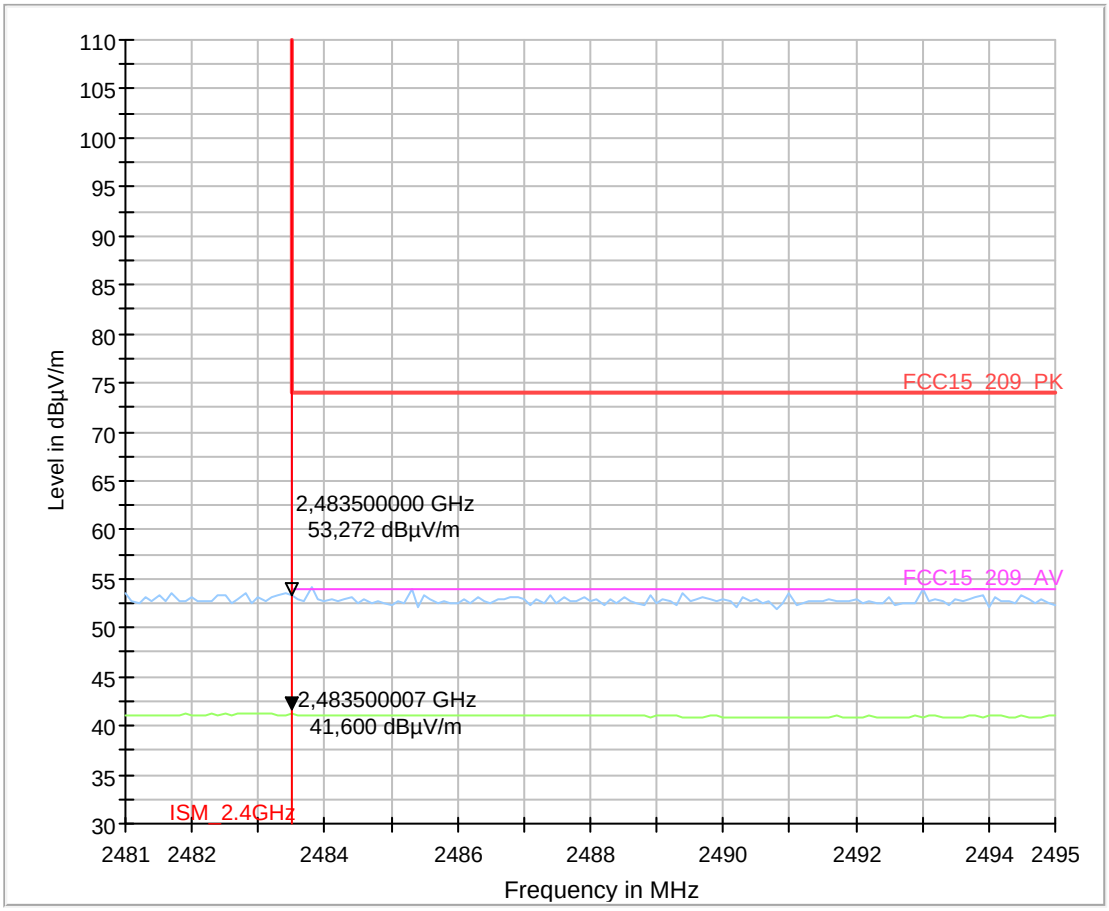
9.14_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power 12dBm
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50Ω.



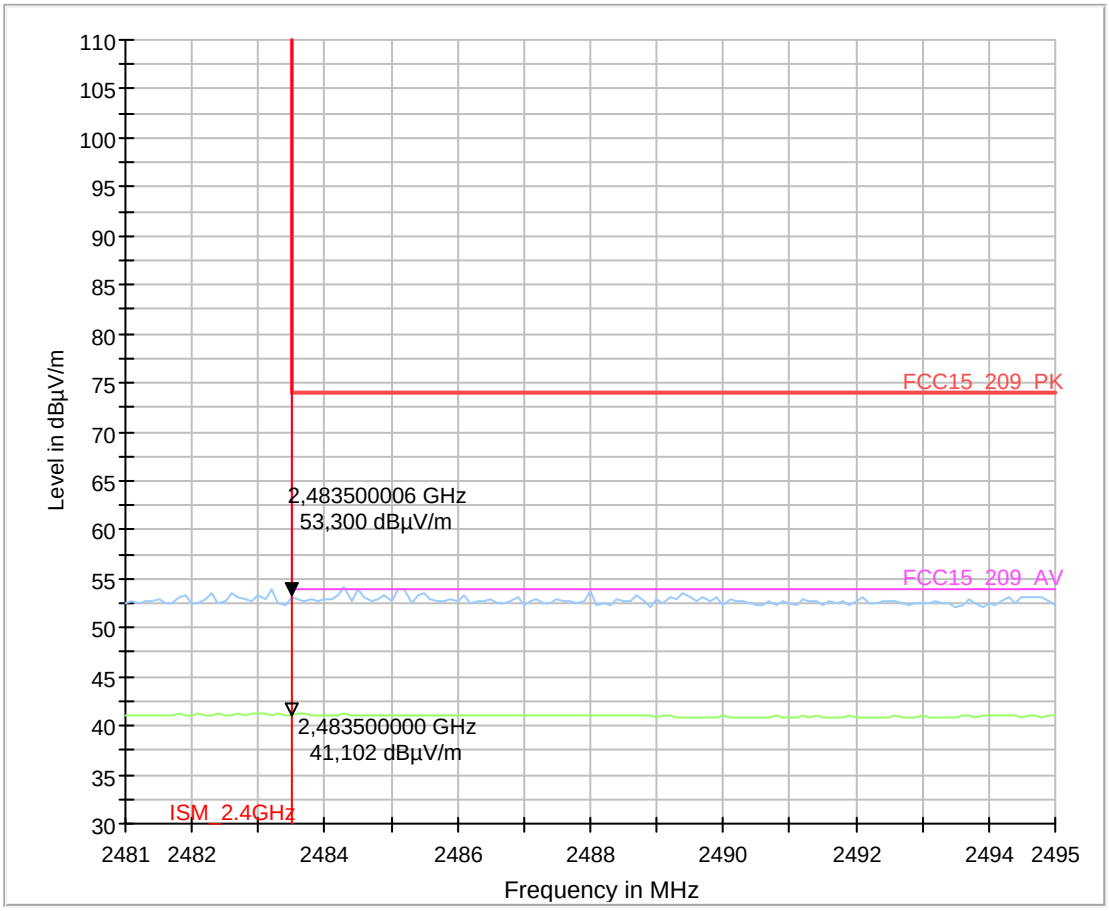
9.16_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 250 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated Power 12dBm)
Operator Name:	AFr
Measurments Perfomed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50Ω.



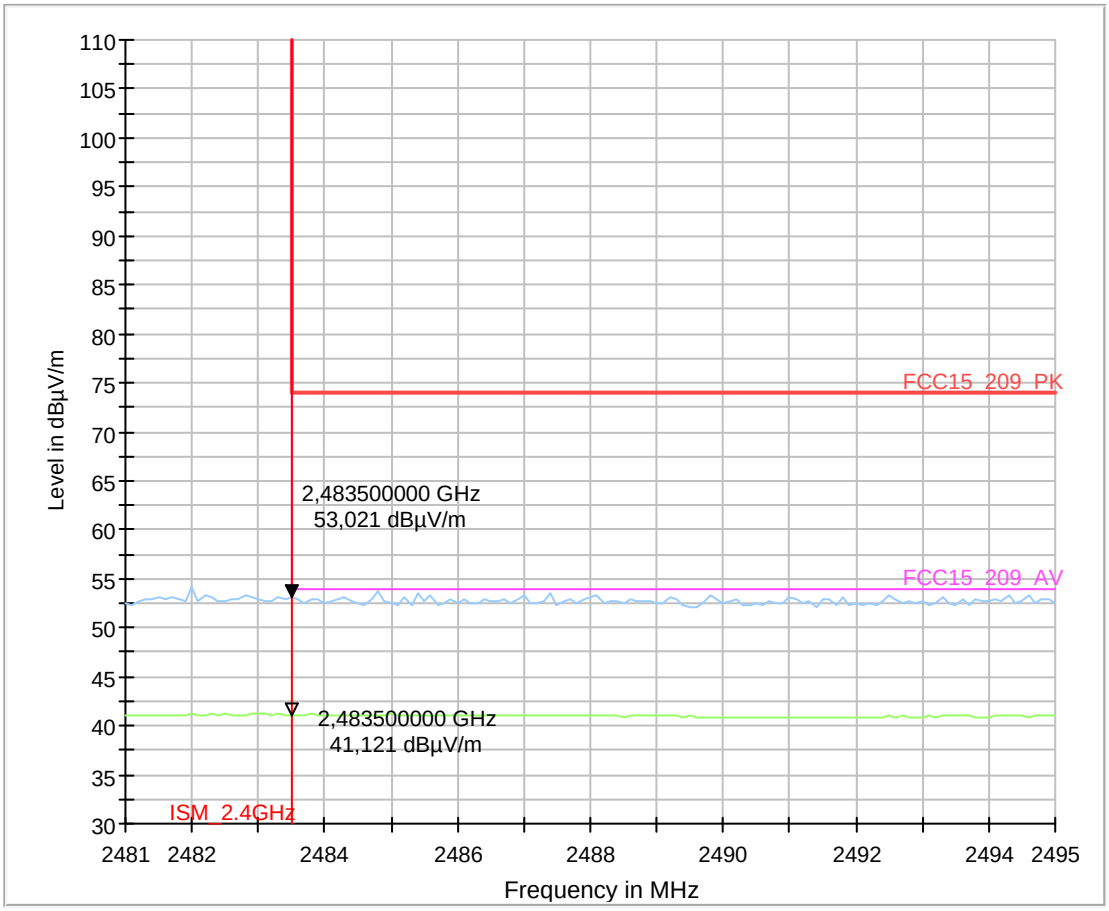
9.18_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 500 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power 12dBm
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50Ω.



3.5.3. Low Channel Hopping Mode (2.4 GHz ISM: left band edge)

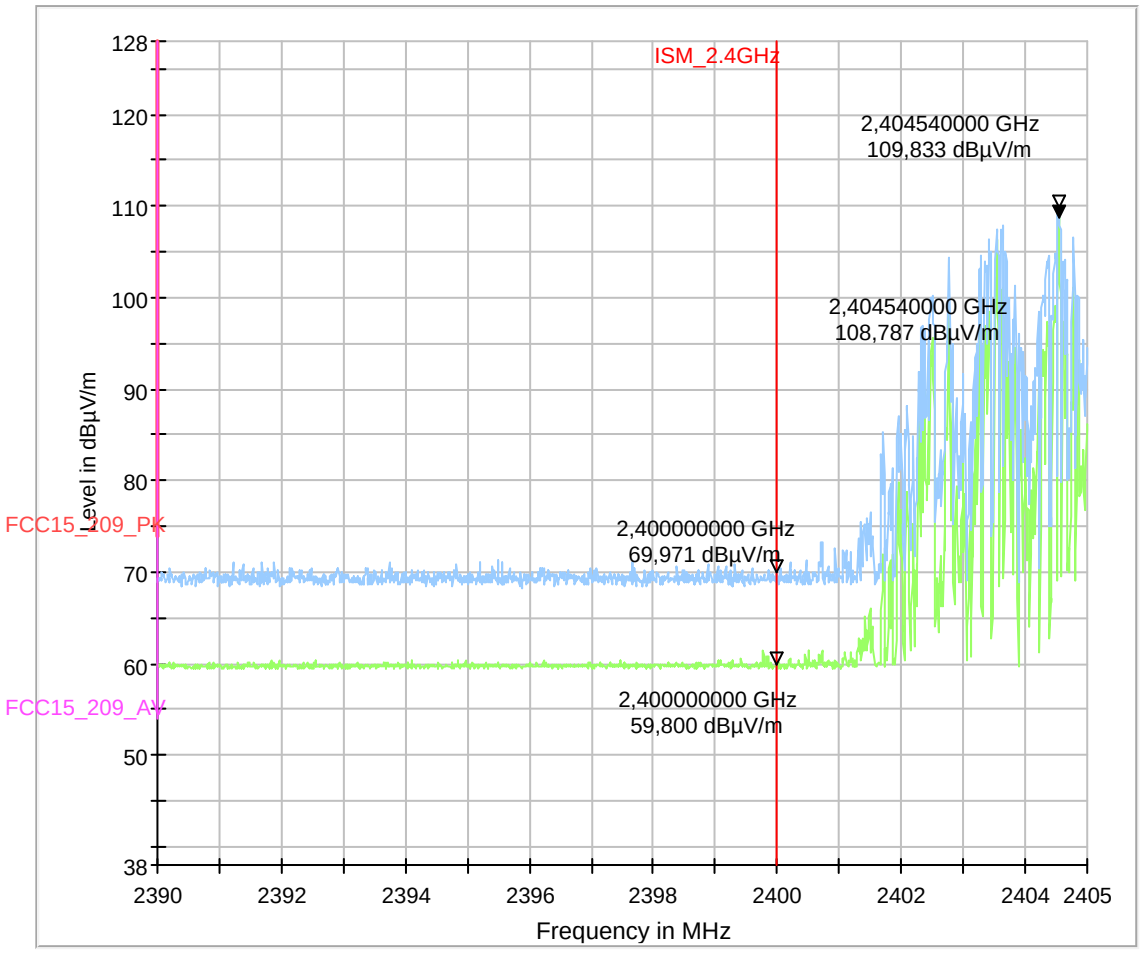
9.19a_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 500 Kbps | Hopping Mode (Master)
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50Ω.



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 3.3]

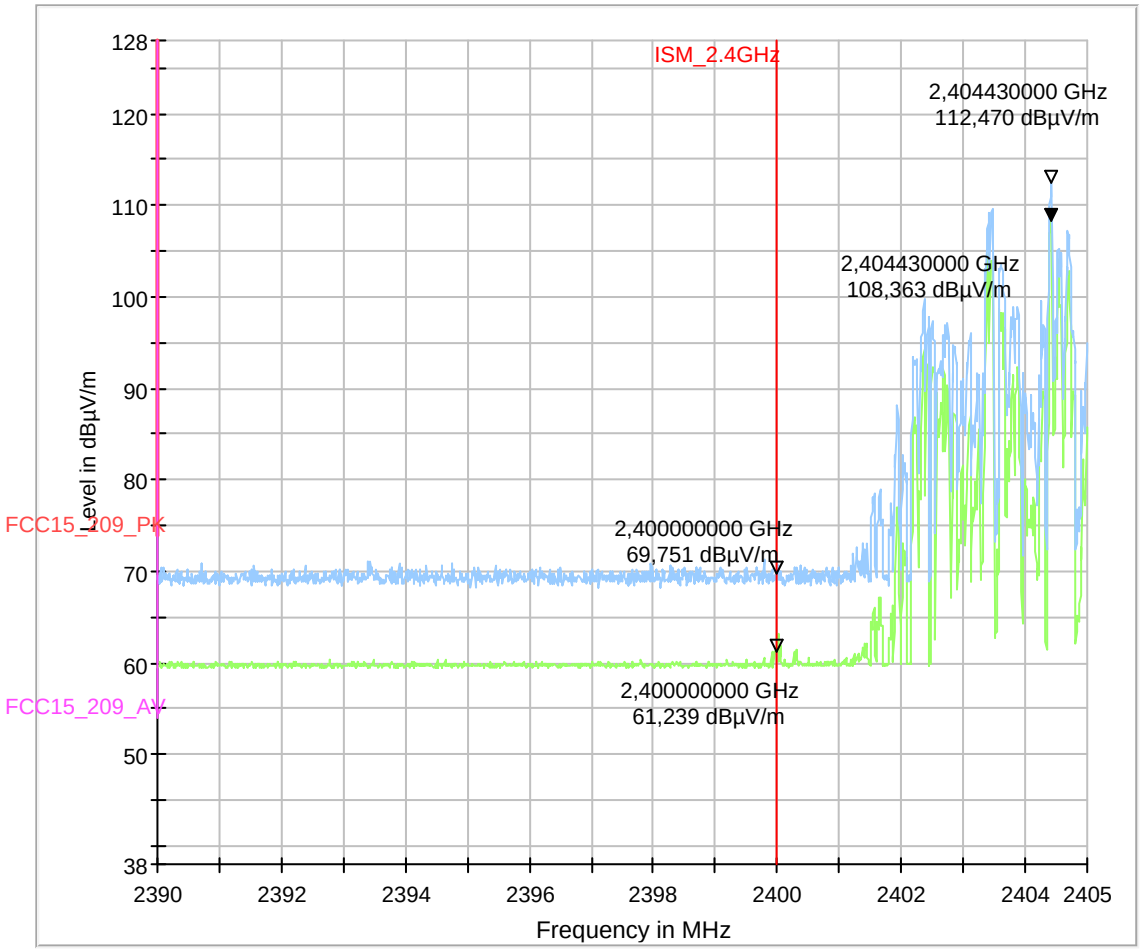
9.20a_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 250 Kbps | Hopping Mode (Master)
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ω.



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 3.3]

3.5.4. High Channel Hopping Mode (2.4 GHz ISM: left band edge)

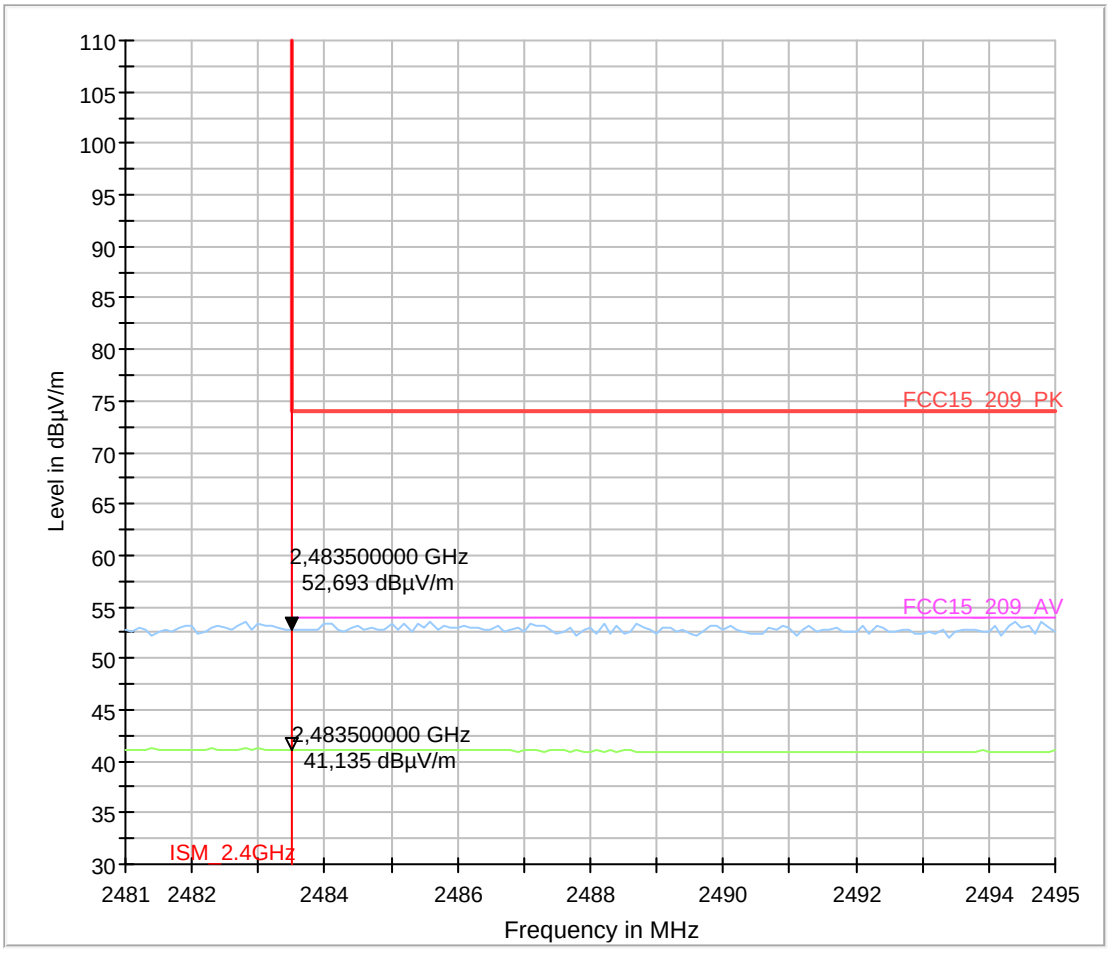
9.19b_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-High

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 500 Kbps | Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50 Ω.



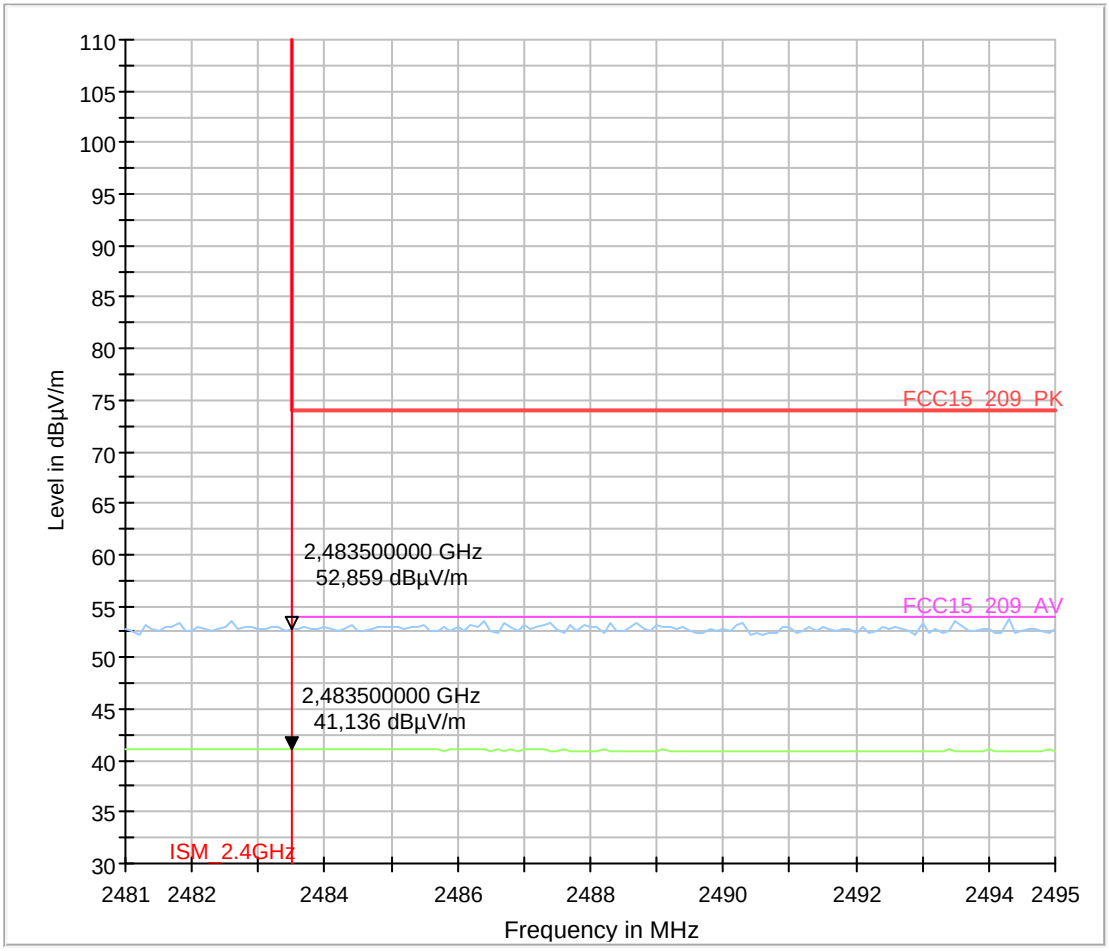
9.20b_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-High

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK | 250 Kbps | Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 | 2| 3| 4) are terminated with 50Ω



Radiated Field Strength Measurements

RCM24G

+

INTEL FA5 ANTENNA PORT 5

4. Radiated Field Strength Measurements-RCM24G + INTEL FA5 ANTENNA-PORT 5

4.1. Radiated Field Strength Emissions - 9kHz to 30MHz

2.21_RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR +12dBm

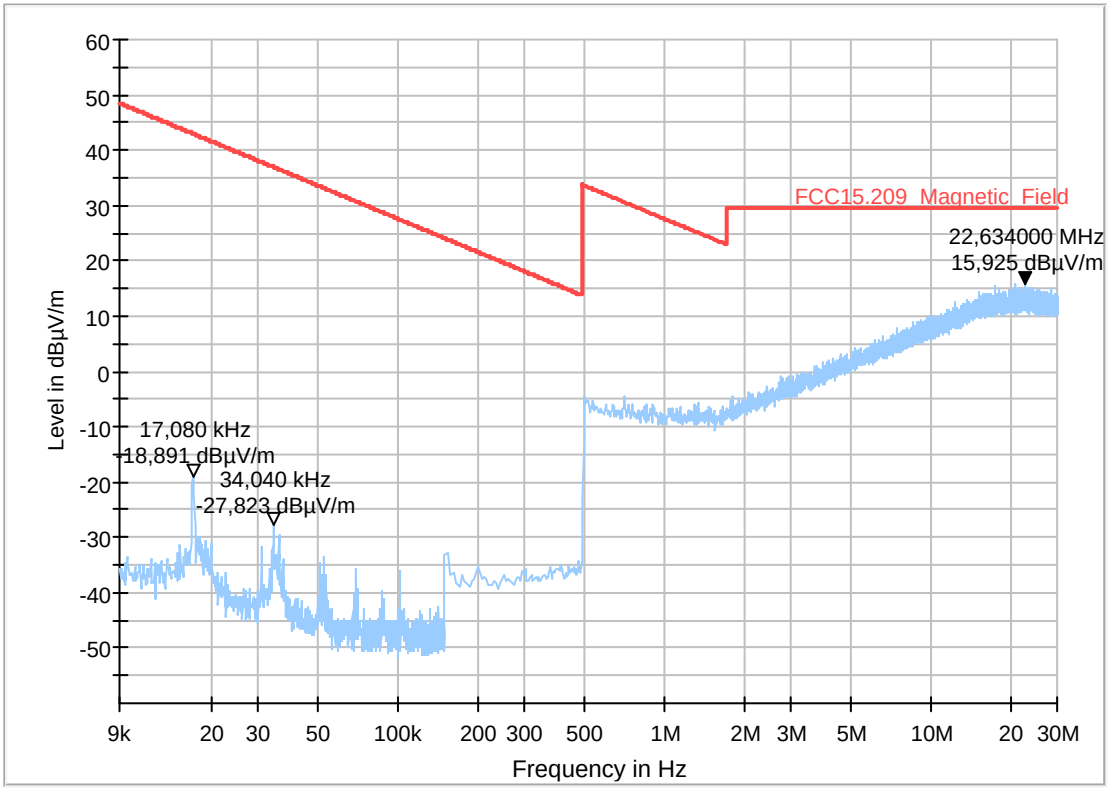
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.22_RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69-PWR+12dBm

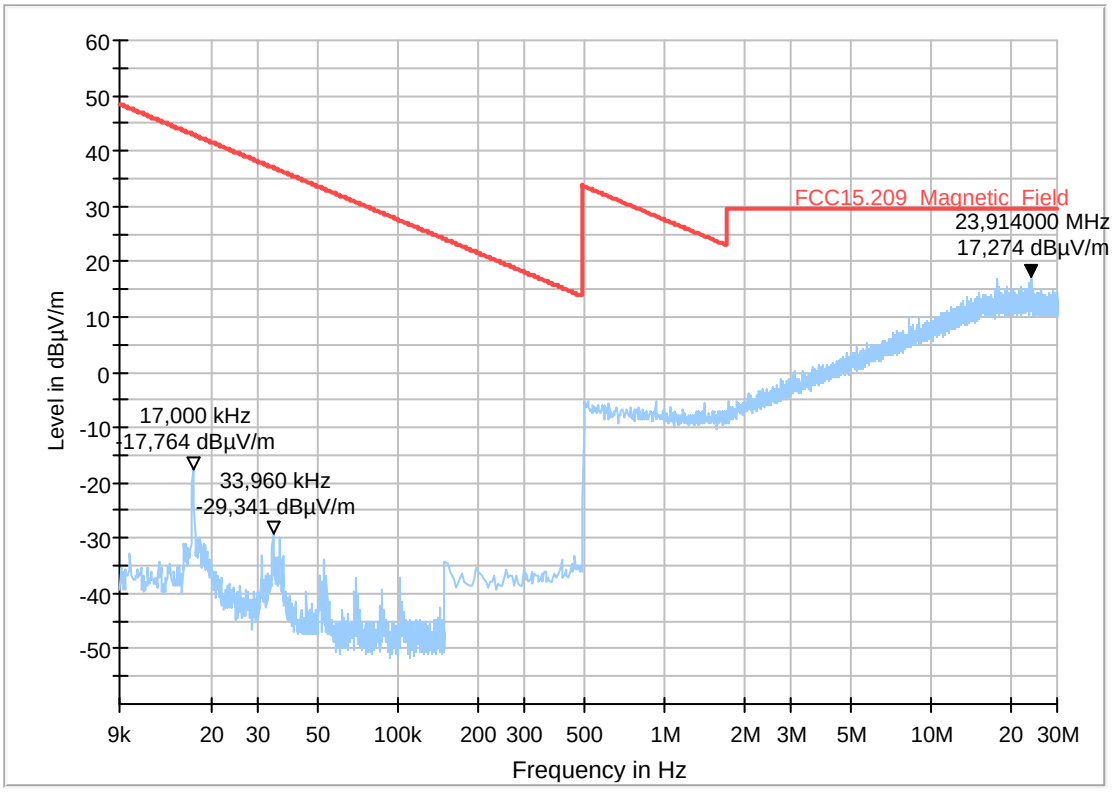
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFr
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω terminations.

Full Spectrum



2.23_RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch0-PWR +12dBm

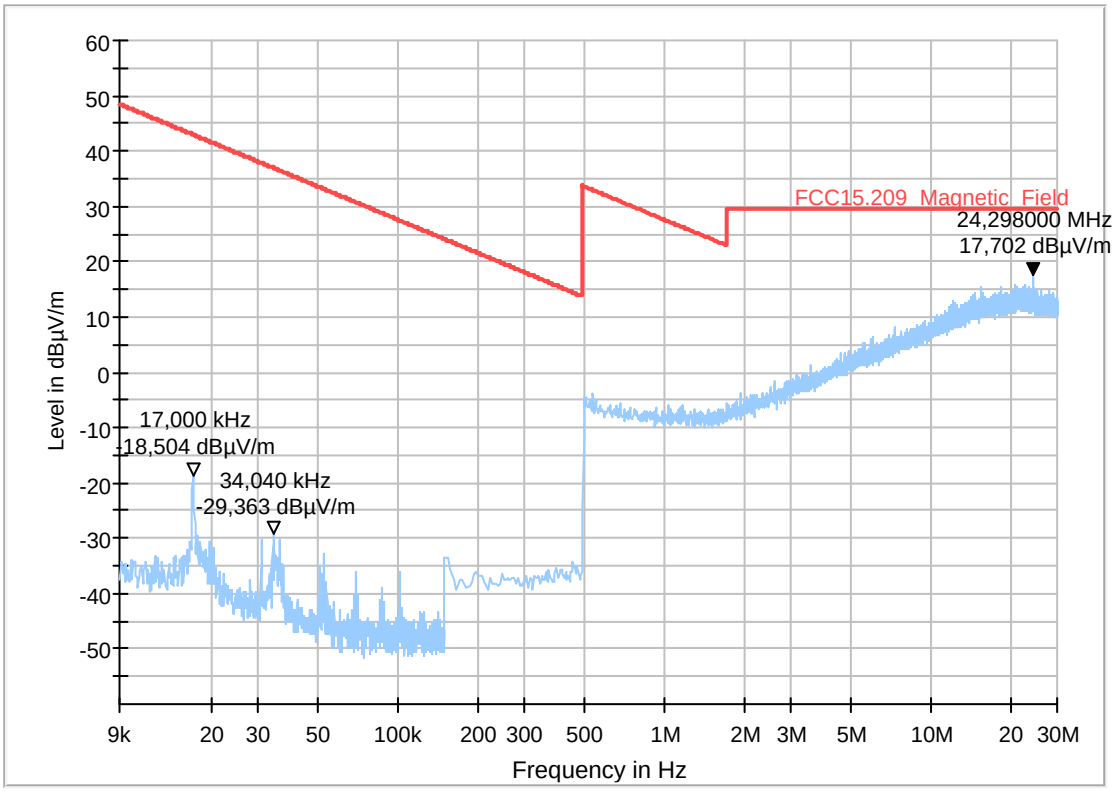
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFr
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω terminations.

Full Spectrum



2.24_RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch34-PWR +21dBm

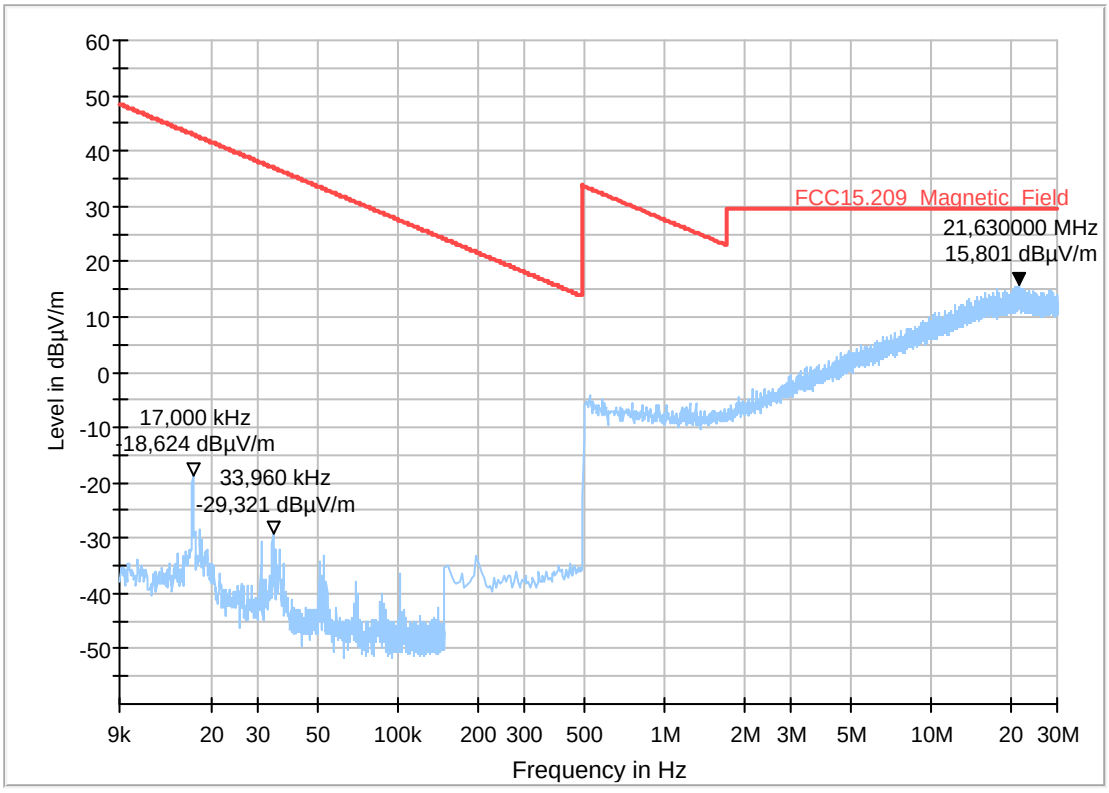
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFr
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω terminations.

Full Spectrum



4.2. Radiated Field Strength Emissions - 30MHz to 1GHz

3.21_RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR +12dBm

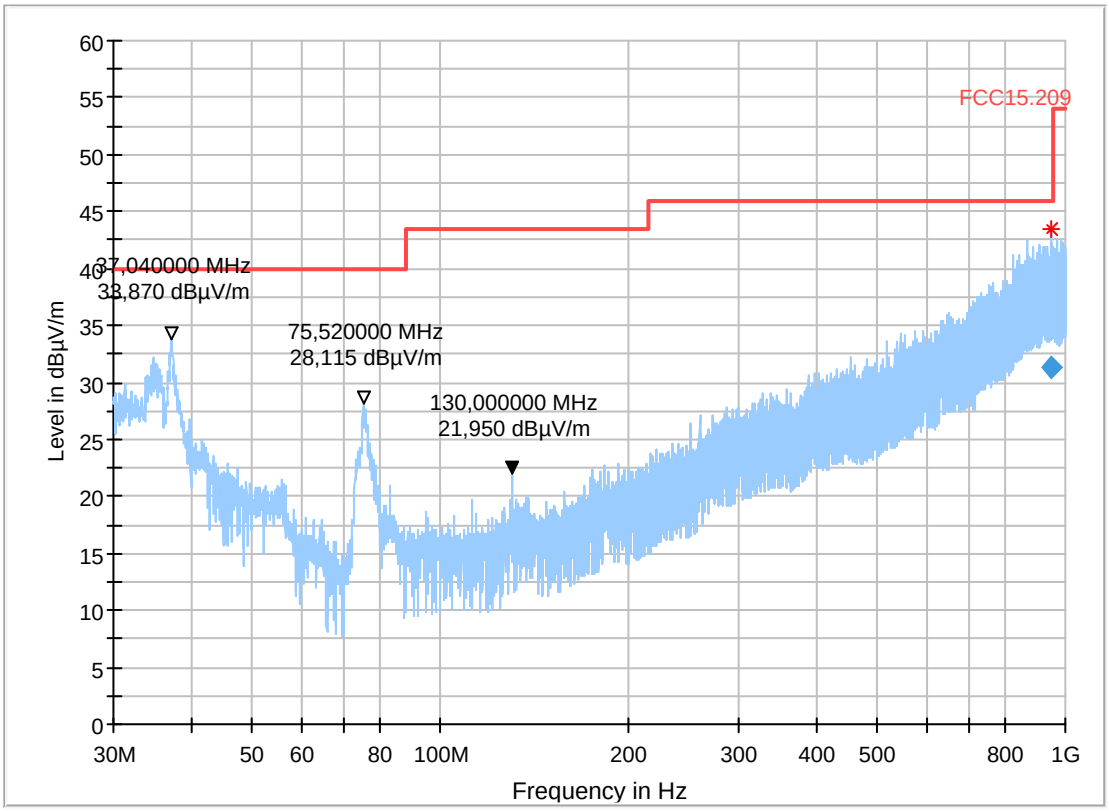
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	AFr
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 5 MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC Using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50Ω.

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
946.664000	31.29	46.00	14.71	1000.0	120.000	315.0	V	89.0	90.0	27.0

3.22_RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69-PWR+12dBm

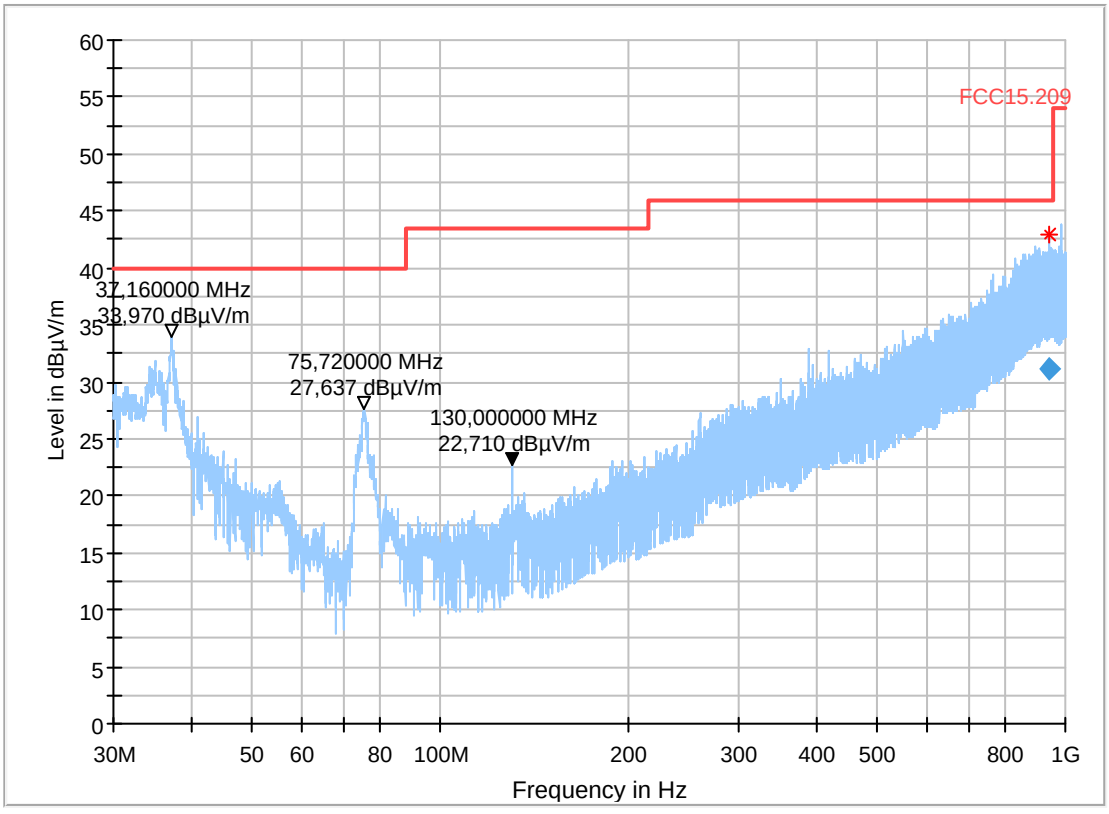
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	AFr
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 5 MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC Using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω.

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
941.192000	31.17	46.00	14.83	1000.0	120.000	282.0	H	143.0	90.0	26.8

3.23_RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch0-PWR +12dBm

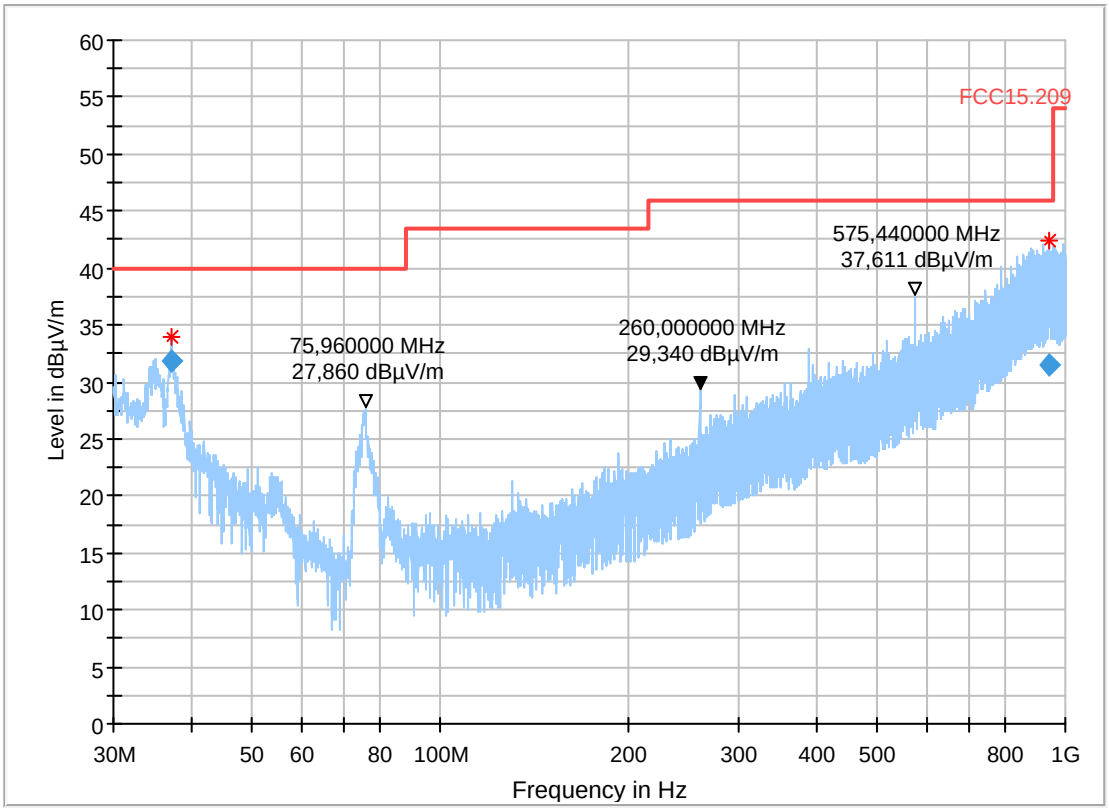
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	AFr
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 5 MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC Using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
37.192000	31.77	40.00	8.23	1000.0	120.000	284.0	H	132.0	90.0	18.3
945.000000	31.44	46.00	14.57	1000.0	120.000	248.0	H	218.0	90.0	27.1

3.24_RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch34-PWR +21dBm

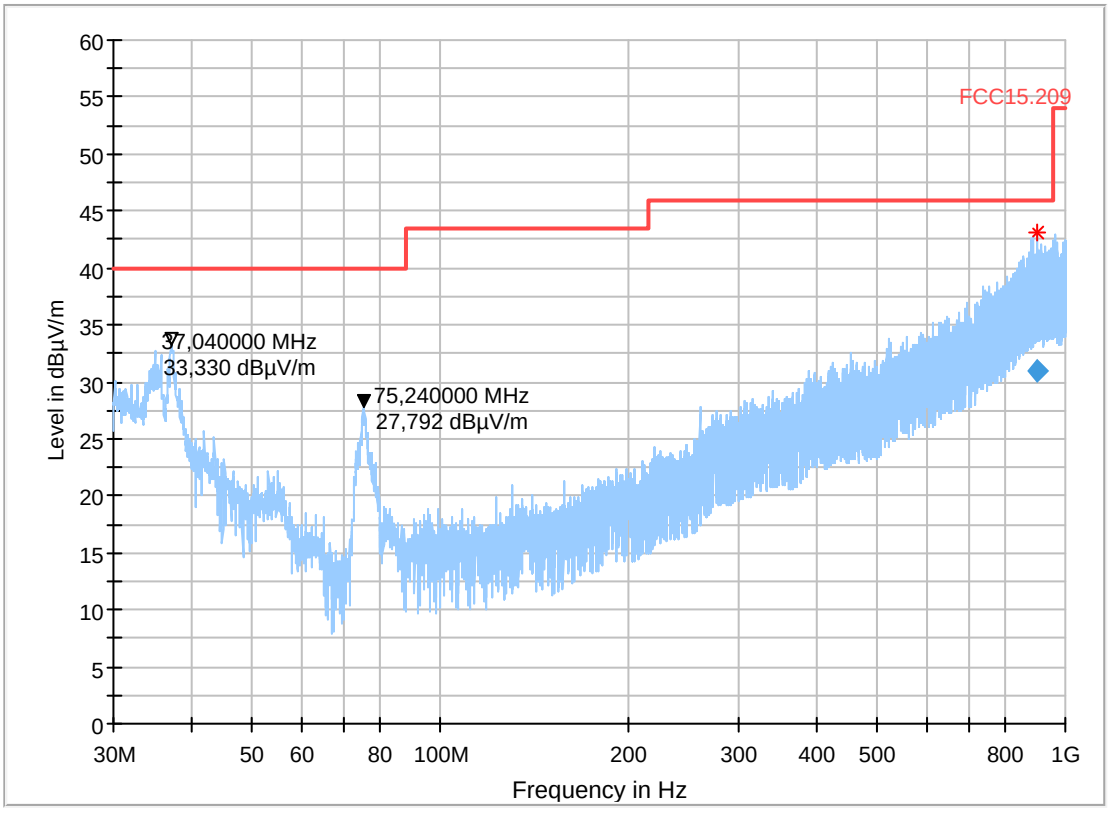
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	AFr
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 5 MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm
Power during tests:	3.6 V DC Using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
903.392000	30.96	46.00	15.04	1000.0	120.000	276.0	V	104.0	90.0	26.7

4.3. Radiated Field Strength Emissions - 1GHz to 18GHz

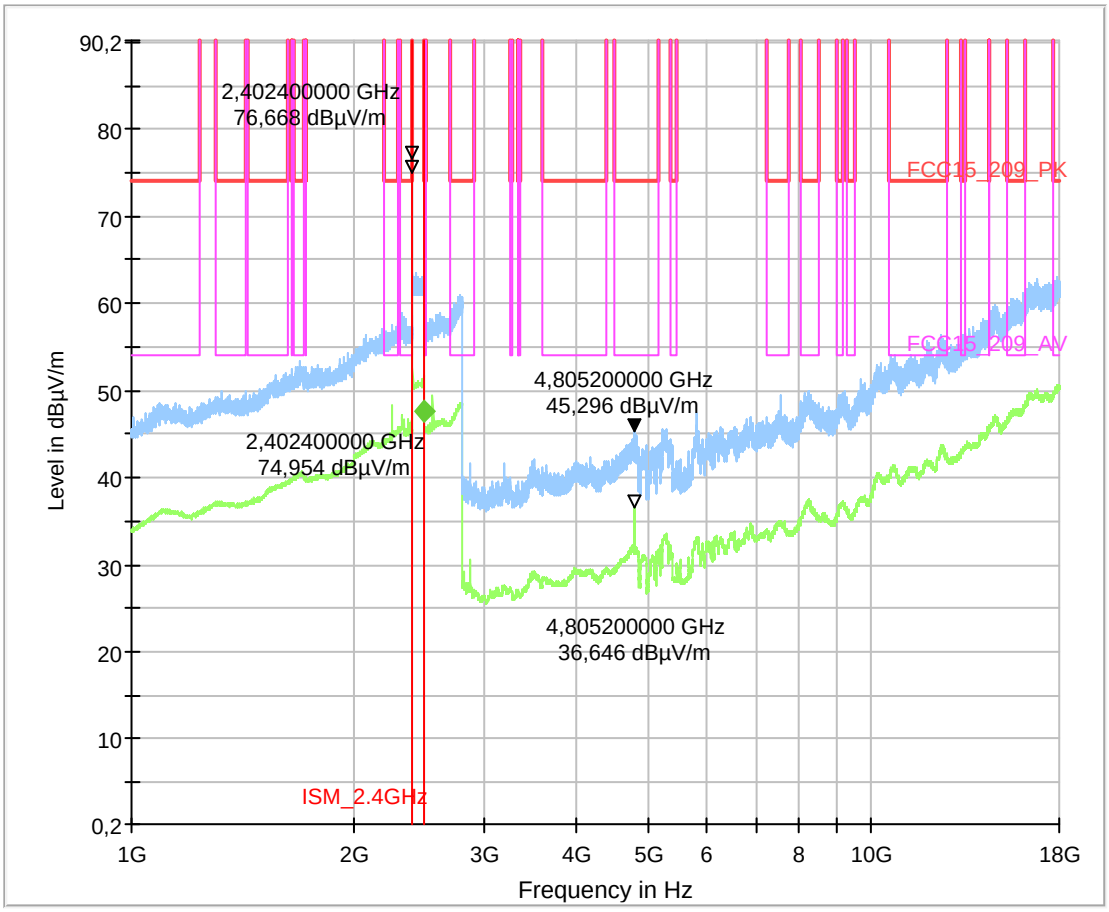
4.21_RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR +12dBm

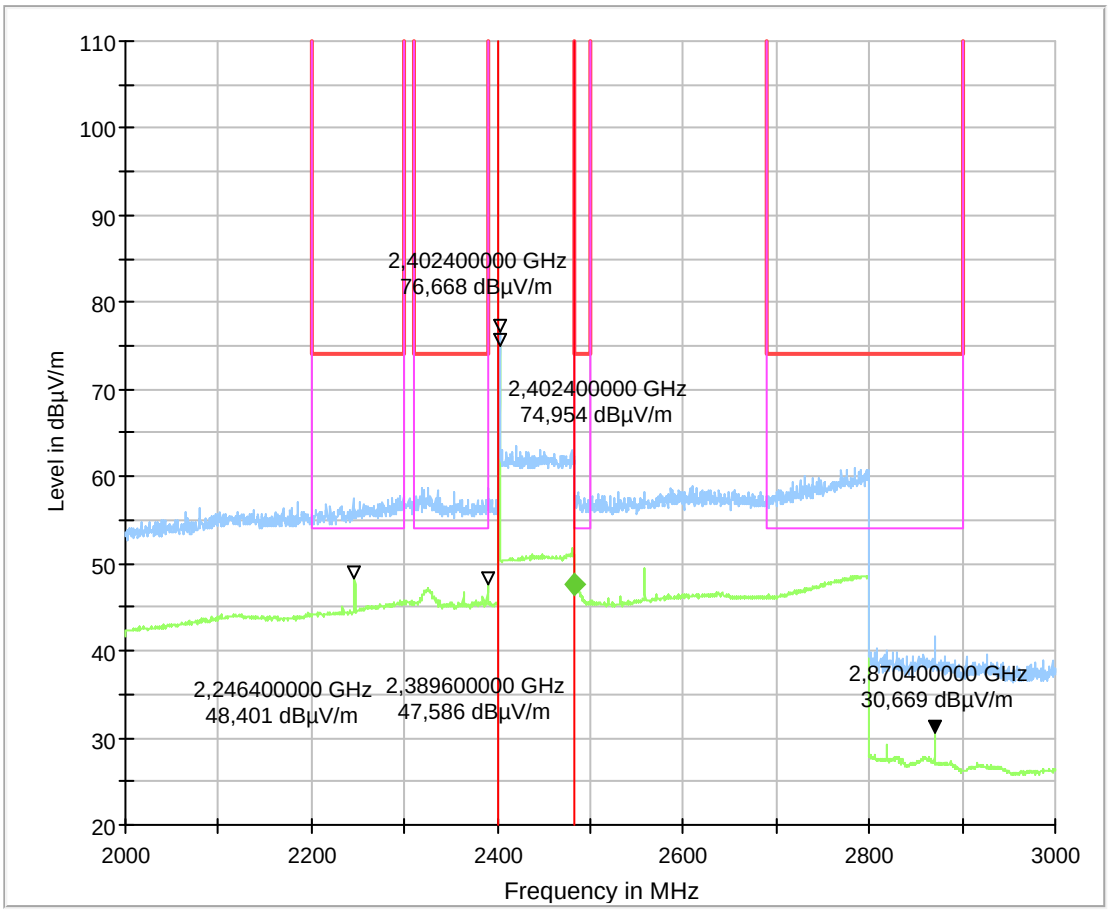
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated)-Power:+12dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω





Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Band-width (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2483.500000	47.59	54.00	6.41	100.0	1000.000	155.0	H	270.0	90.0	35.6

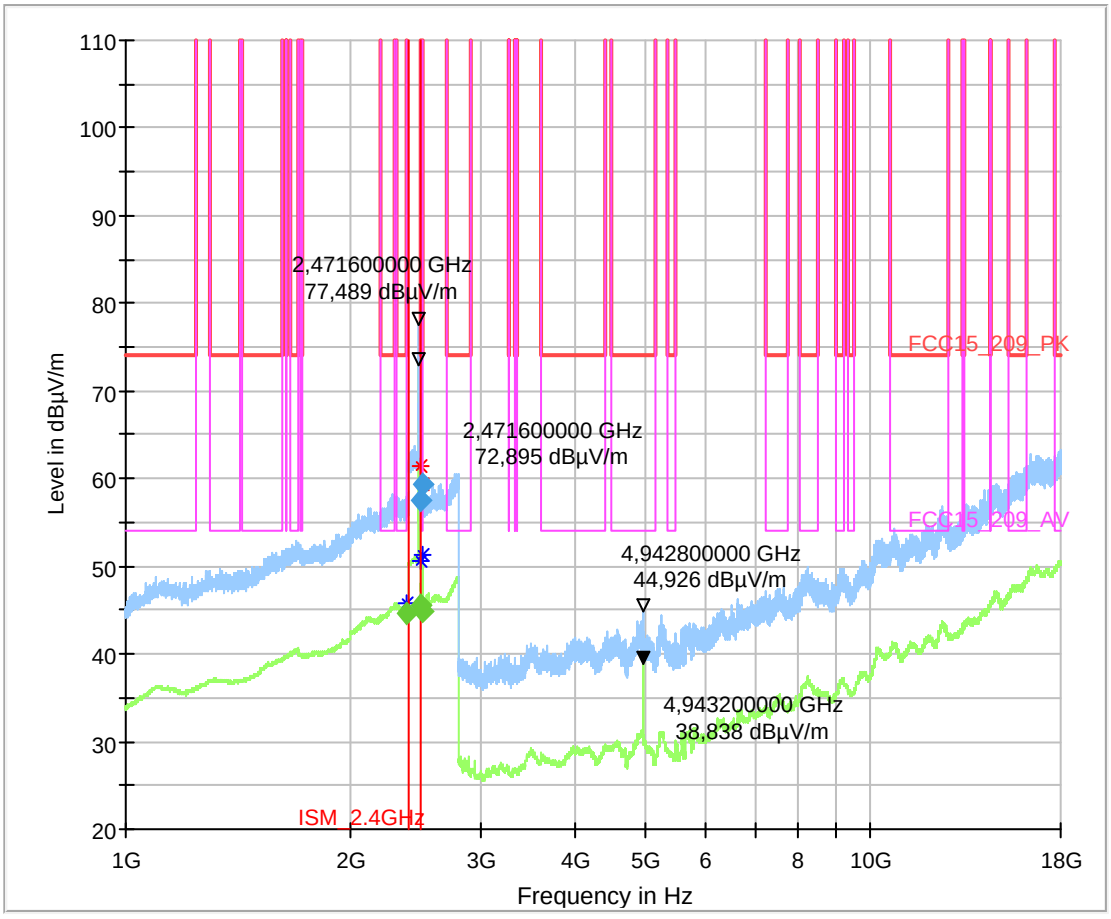
4.22_RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69-PWR+12dBm

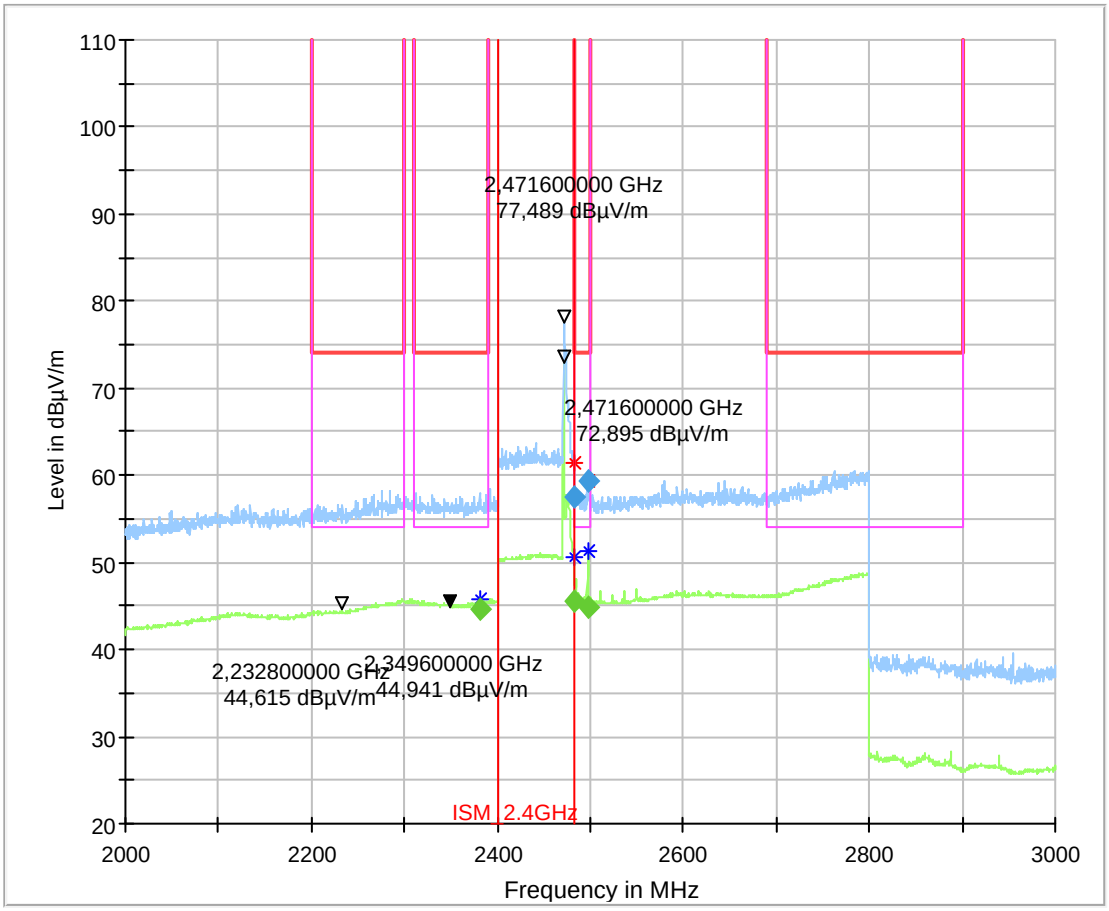
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) | Power:+12dBm
Operator Name:	PSa
Measurements Performed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω





Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)
2380.530000	---	44.68	54.00	9.32	100.0	1000.000	155.0
2483.500000	---	45.56	54.00	8.44	100.0	1000.000	155.0
2483.500000	57.59	---	74.00	16.41	100.0	1000.000	155.0
2496.950000	---	44.95	54.00	9.05	100.0	1000.000	155.0
2497.550000	59.39	---	74.00	14.61	100.0	1000.000	155.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2380.530000	V	270.0	0.0	35.5
2483.500000	H	139.0	0.0	35.6
2483.500000	H	218.0	0.0	35.6
2496.950000	H	282.0	90.0	35.6
2497.550000	V	151.0	0.0	35.6

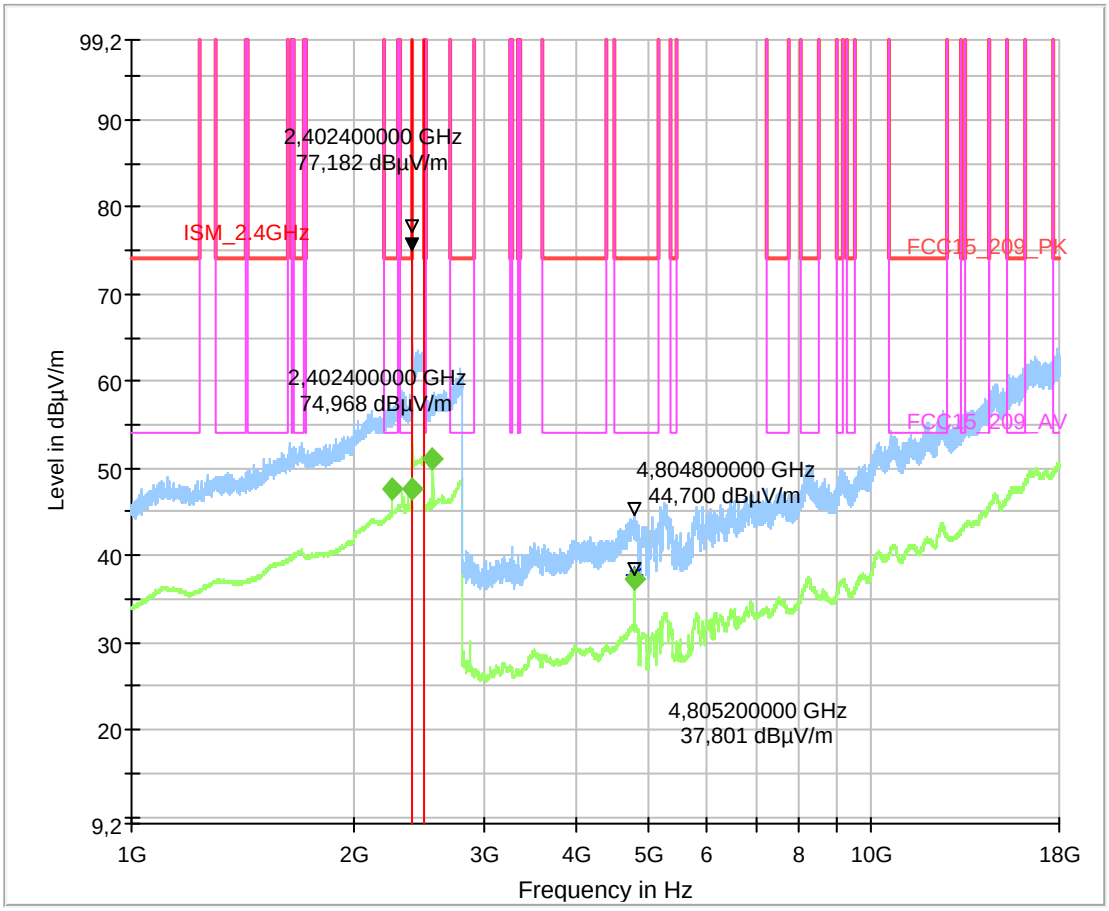
4.23_RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch0-PWR +12 dBm

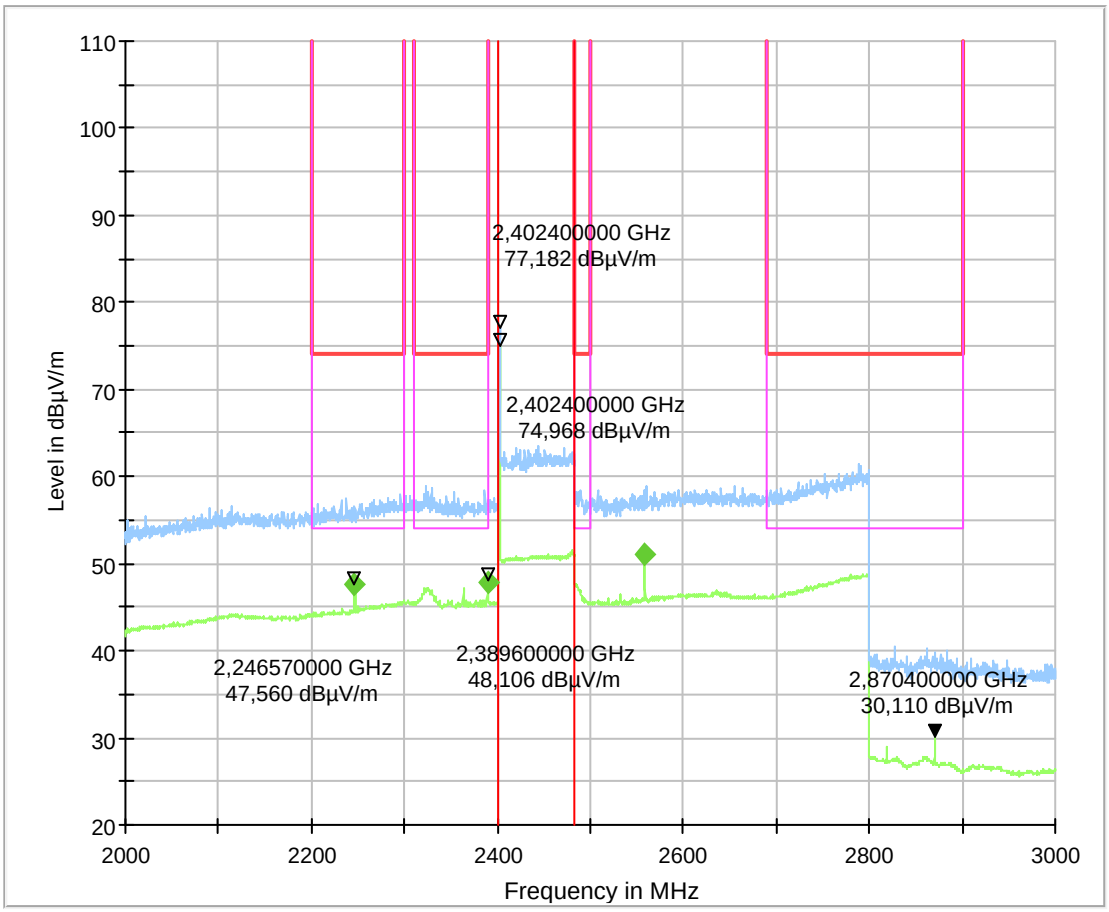
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power +12 dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω





Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Band-width (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2246.570000	47.56	54.00	6.44	100.0	1000.000	155.0	H	253.0	90.0	34.8
2389.450000	47.74	54.00	6.26	100.0	1000.000	155.0	H	272.0	90.0	35.5
2558.550000	51.01	150.00	99.00	100.0	1000.000	155.0	V	280.0	0.0	36.0
4805.210000	37.36	54.00	16.64	100.0	1000.000	155.0	V	139.0	0.0	4.9

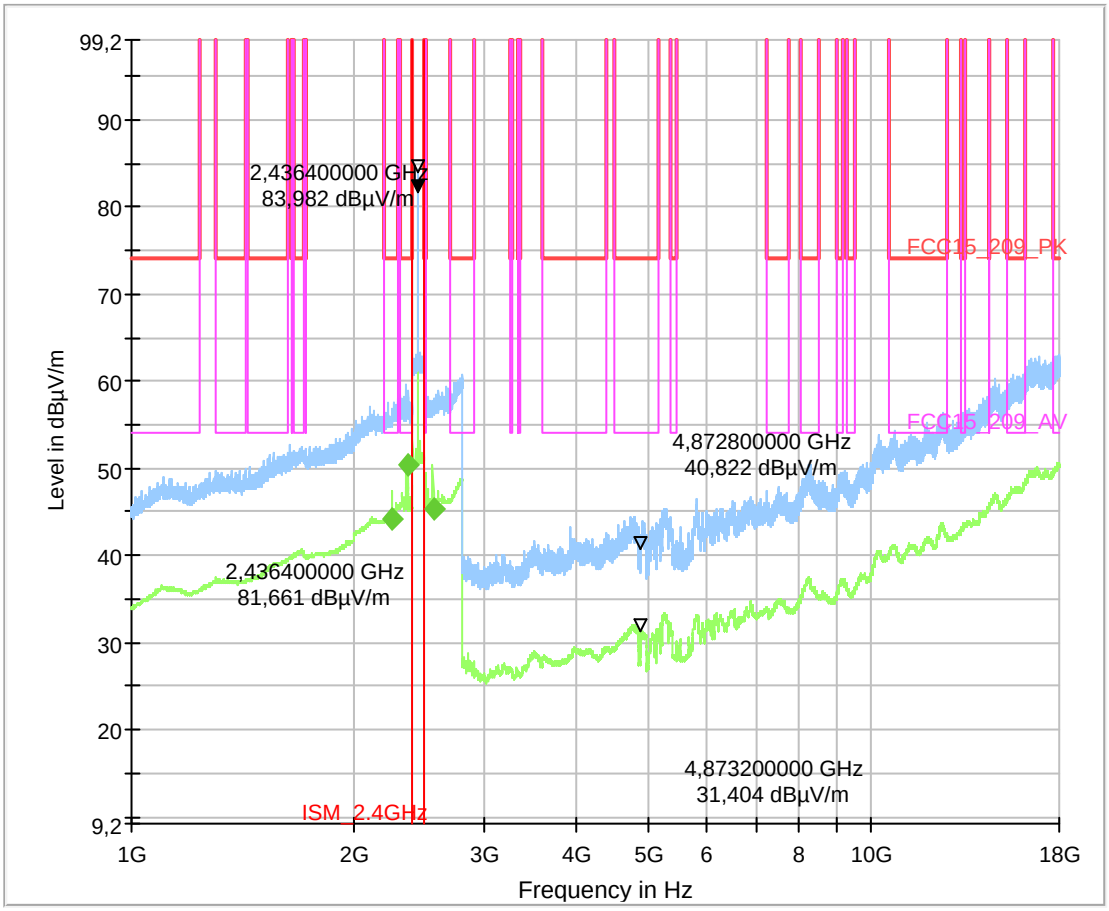
4.24_RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch34-PWR +21dBm

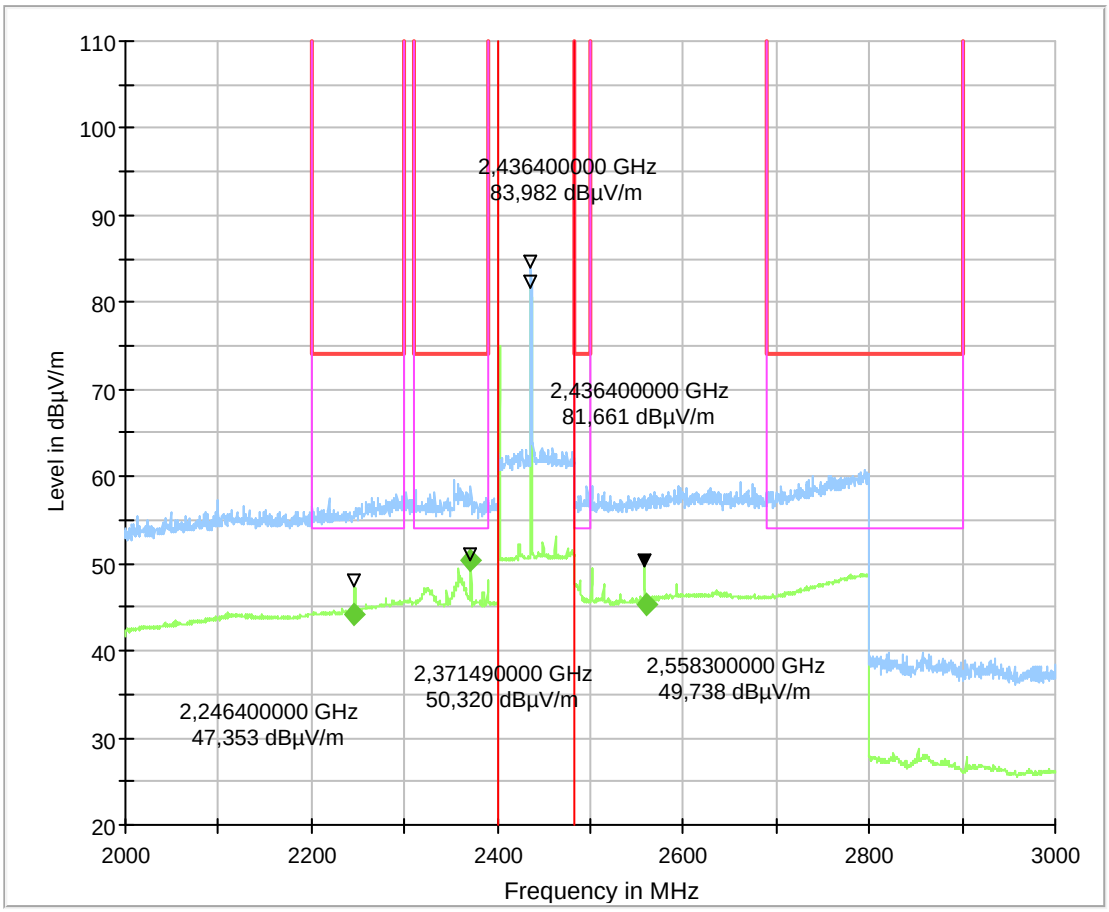
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated) Power +21dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω





Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Band-width (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2245.730000	44.10	54.00	9.90	100.0	1000.000	155.0	H	245.0	90.0	34.8
2371.490000	50.32	54.00	3.68	100.0	1000.000	155.0	H	277.0	90.0	35.5
2559.270000	45.33	150.00	104.67	100.0	1000.000	155.0	V	251.0	0.0	36.0

4.4. Radiated Field Strength Emissions - 18GHz to 25GHz

4.21a_RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR +12dBm

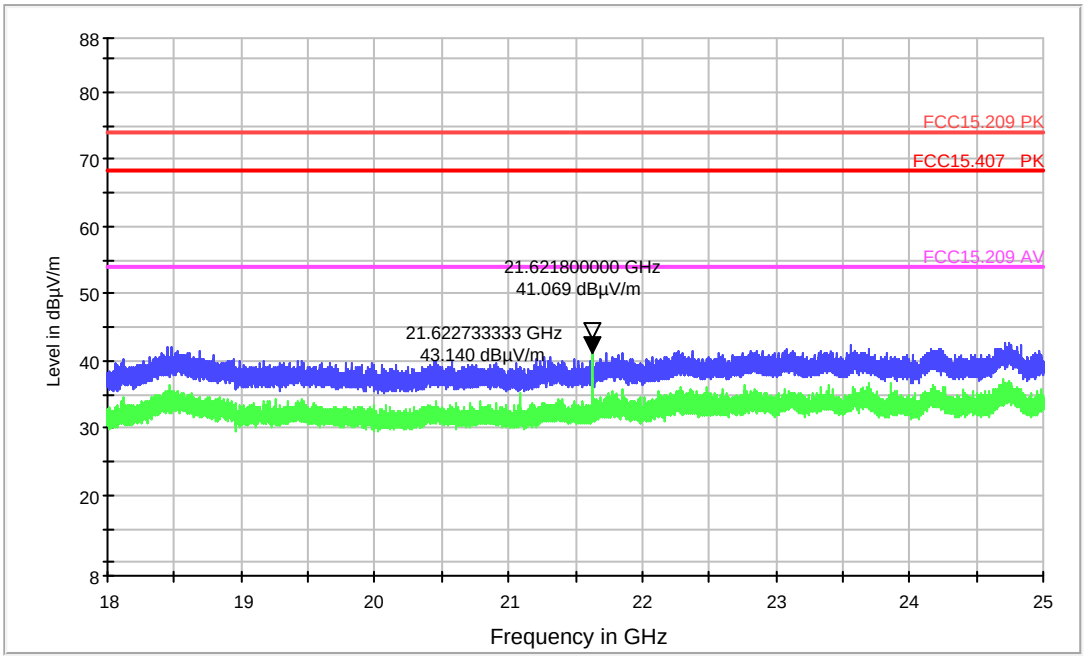
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power : +12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.22a_RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69-PWR+12dBm

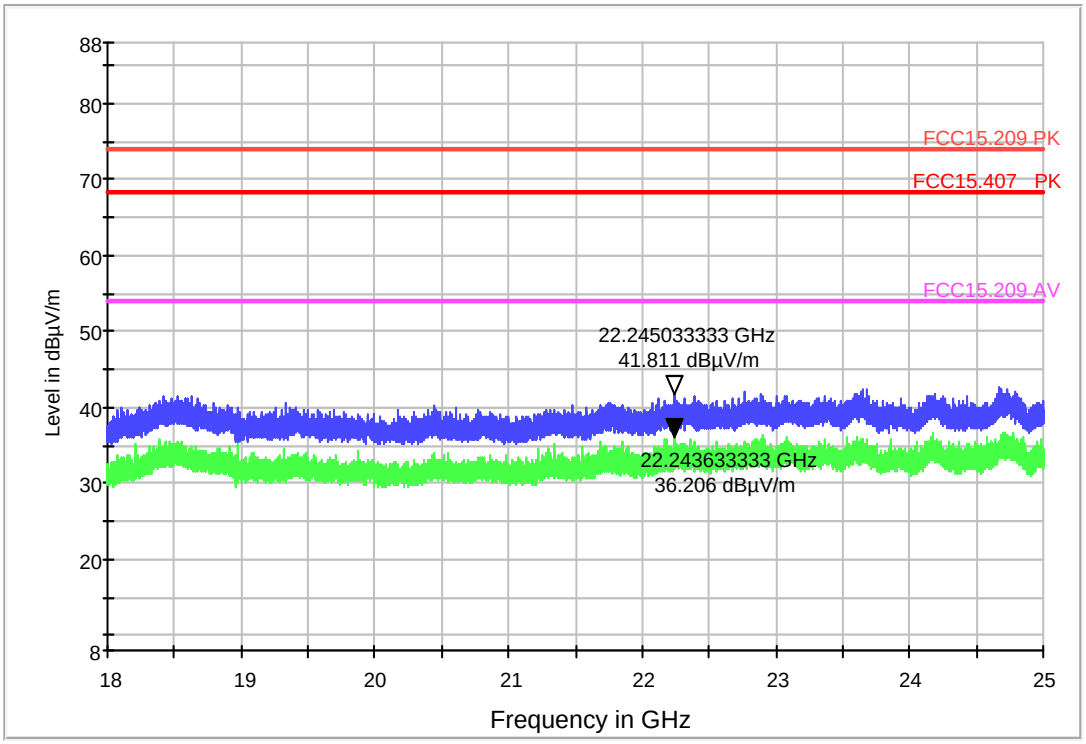
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK |100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated)| +12dBm Power Settings: +12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.23a_RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch0-PWR +12dBm

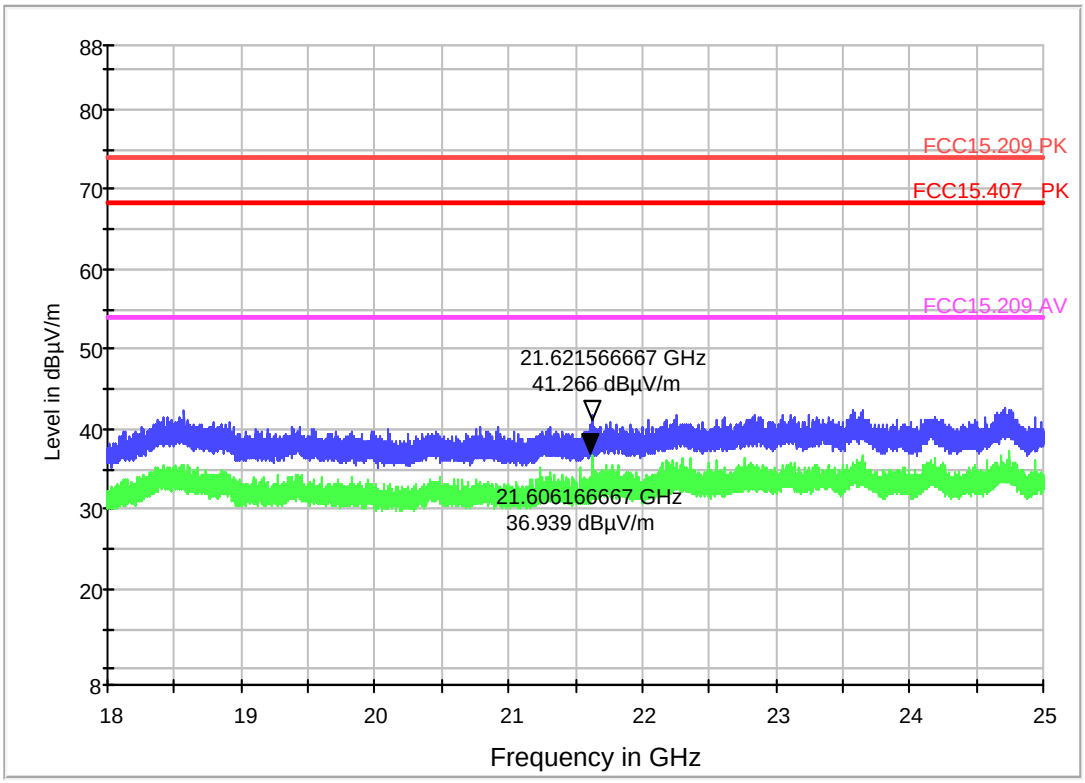
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.24a_RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch34-PWR +21dBm

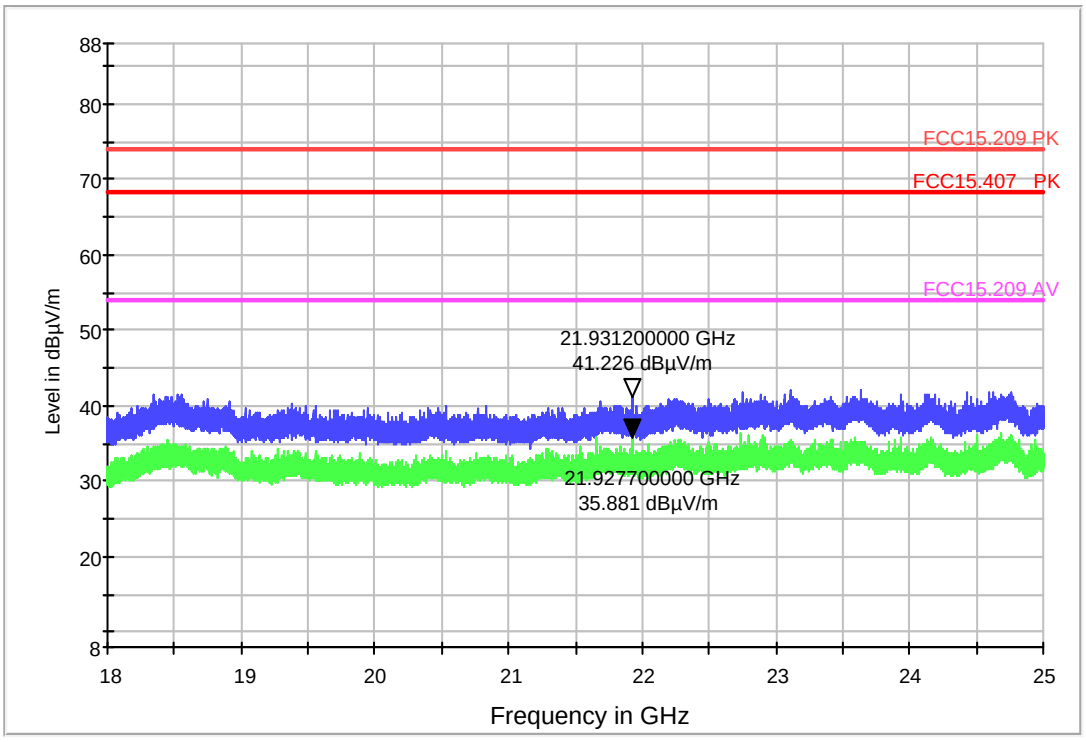
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK |500 Kbps |34 (2436.5 MHz) Fixed Chanel (modulated Power:+21dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.5. Radiated Band-Edge Measurements

4.5.1. Low Channel 2402.5 MHz (2.4 GHz ISM: left band edge)

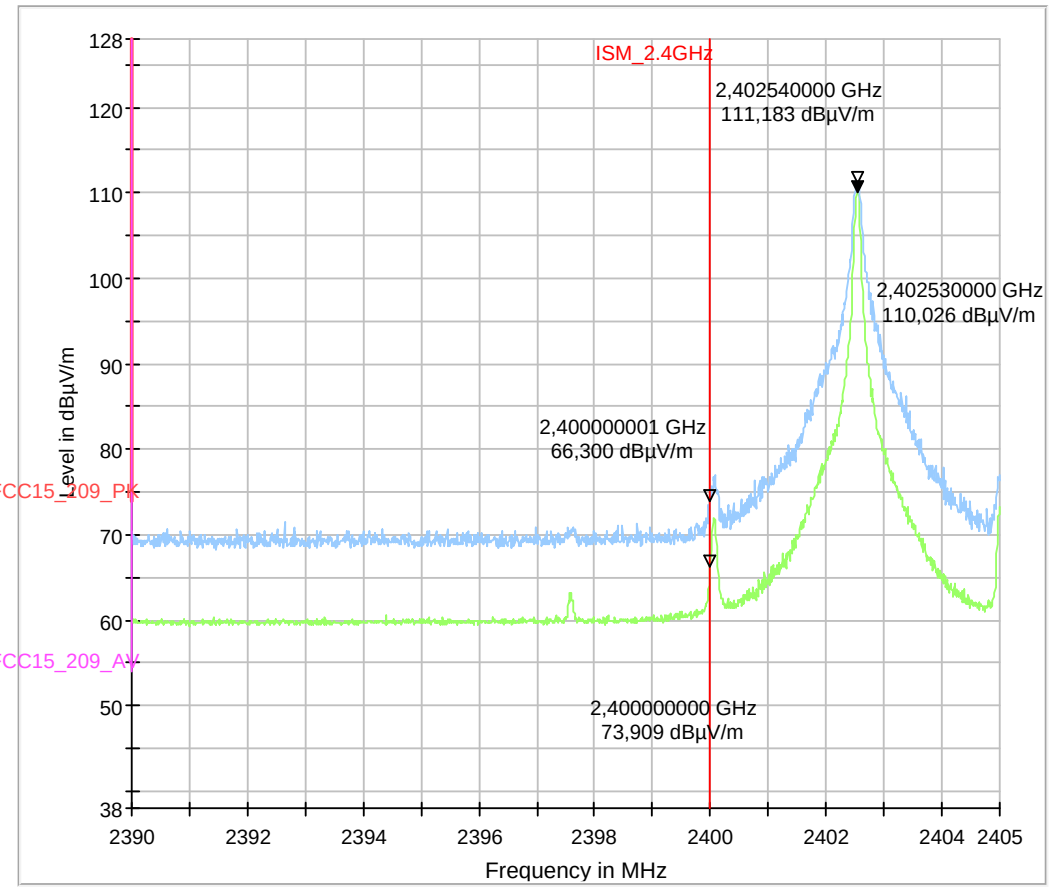
9.21_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper2.4 GHz Port) MSK | 50 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power 12 dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3 **4.21_RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR +12dBm**]

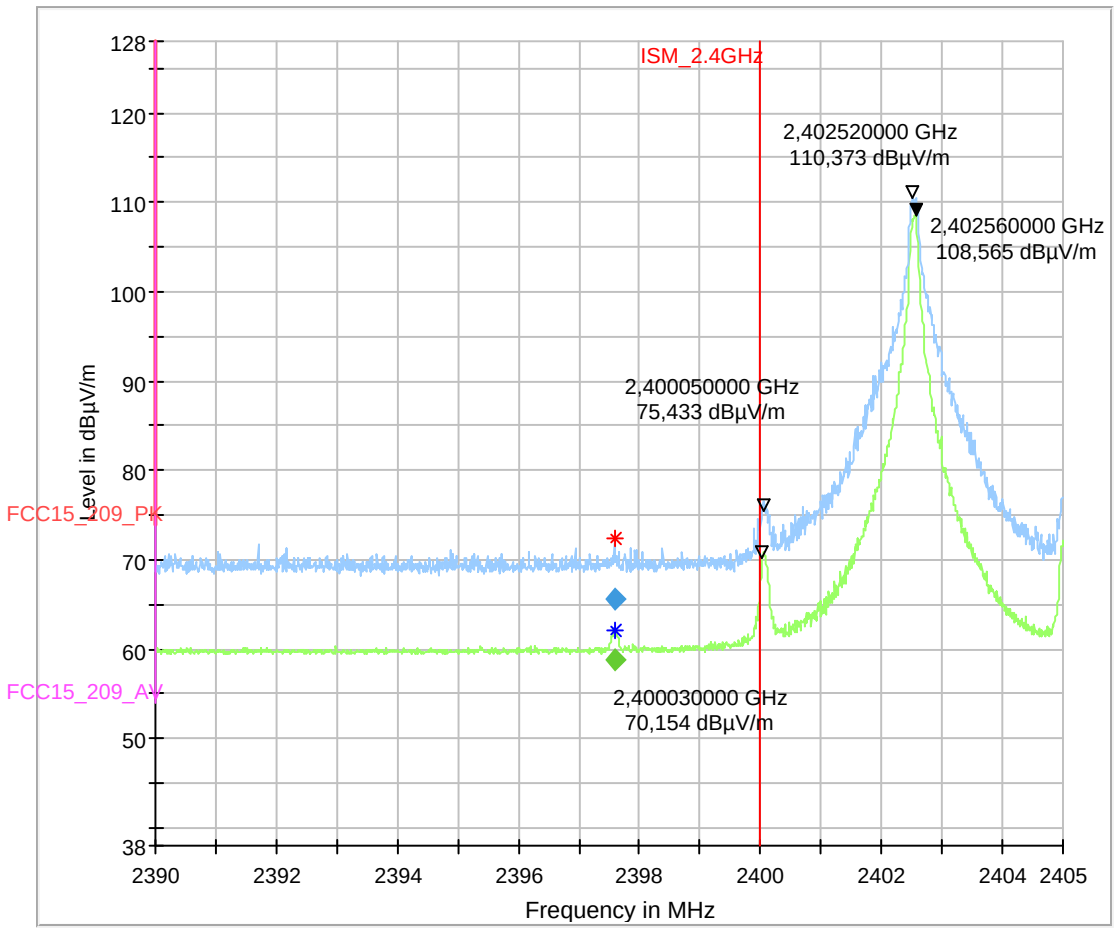
9.23_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps-Ch0-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper2.4 GHz Port) MSK | 100 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power 12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3 **4.22_RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69-PWR+12dBm**]

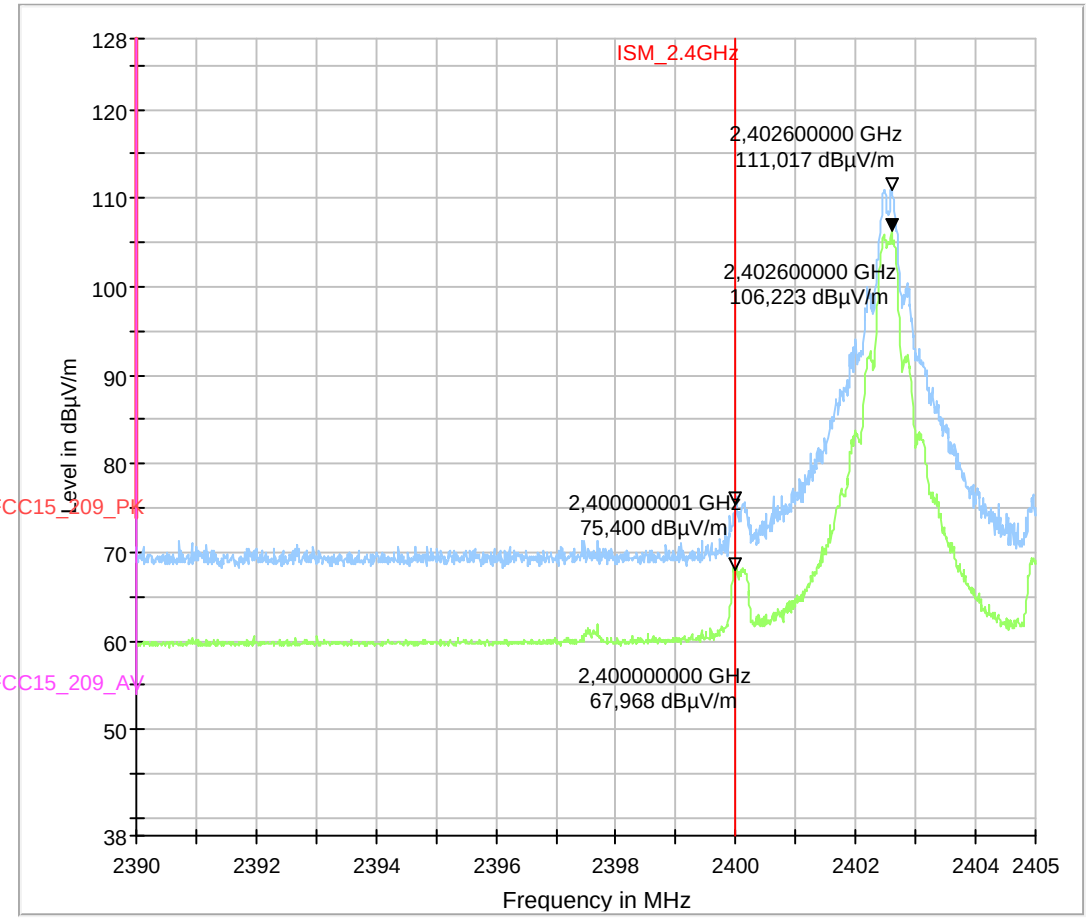
9.25_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps-Ch0-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper2.4 GHz Port) MSK | 250 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power 12 dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3 **4.23_RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch0- PWR +12 dBm**]

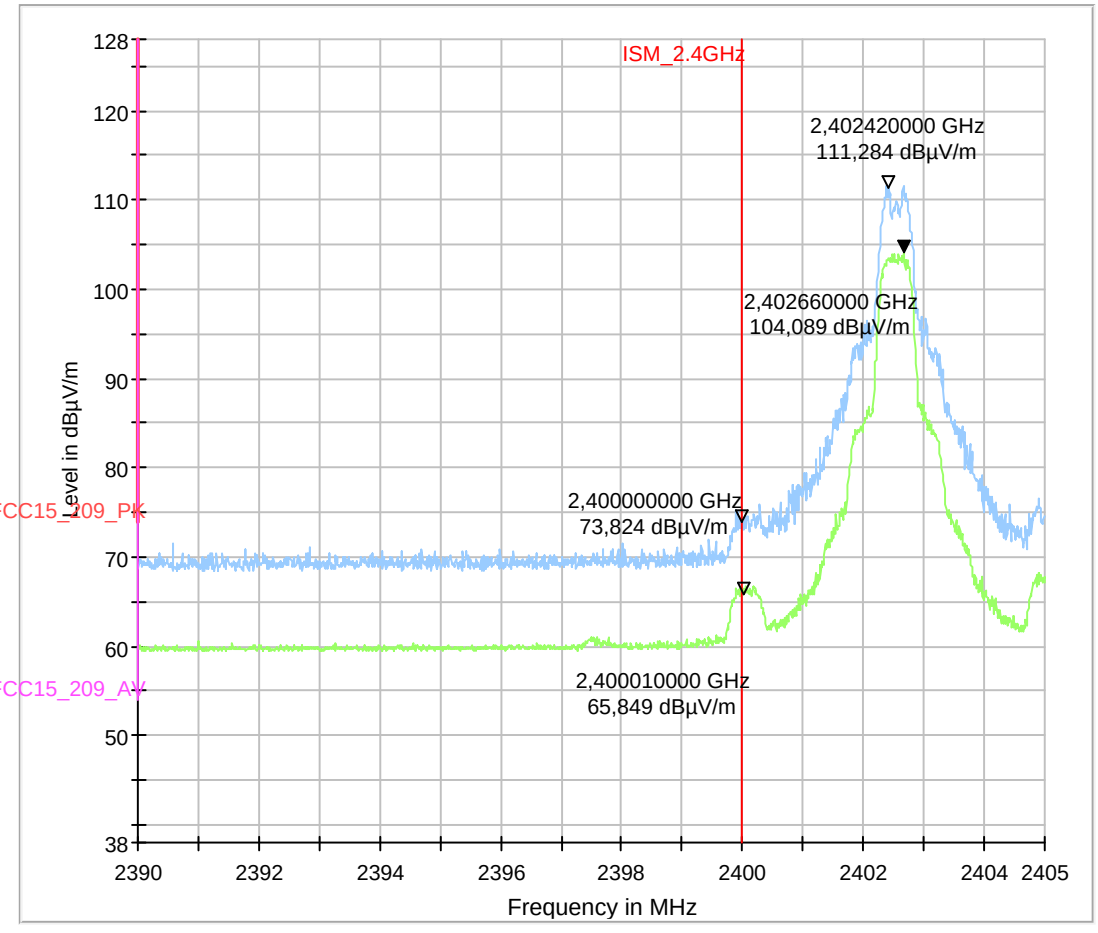
9.27_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps-Ch0-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper2.4 GHz Port) MSK | 500 Kbps |0 (2402.5 MHz) Fixed Chanel (modulated) Power 12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3
4.24_RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch34- PWR +21dBm]

4.5.2. High Channel 2471.5 MHz (2.4 GHz ISM: right band edge)

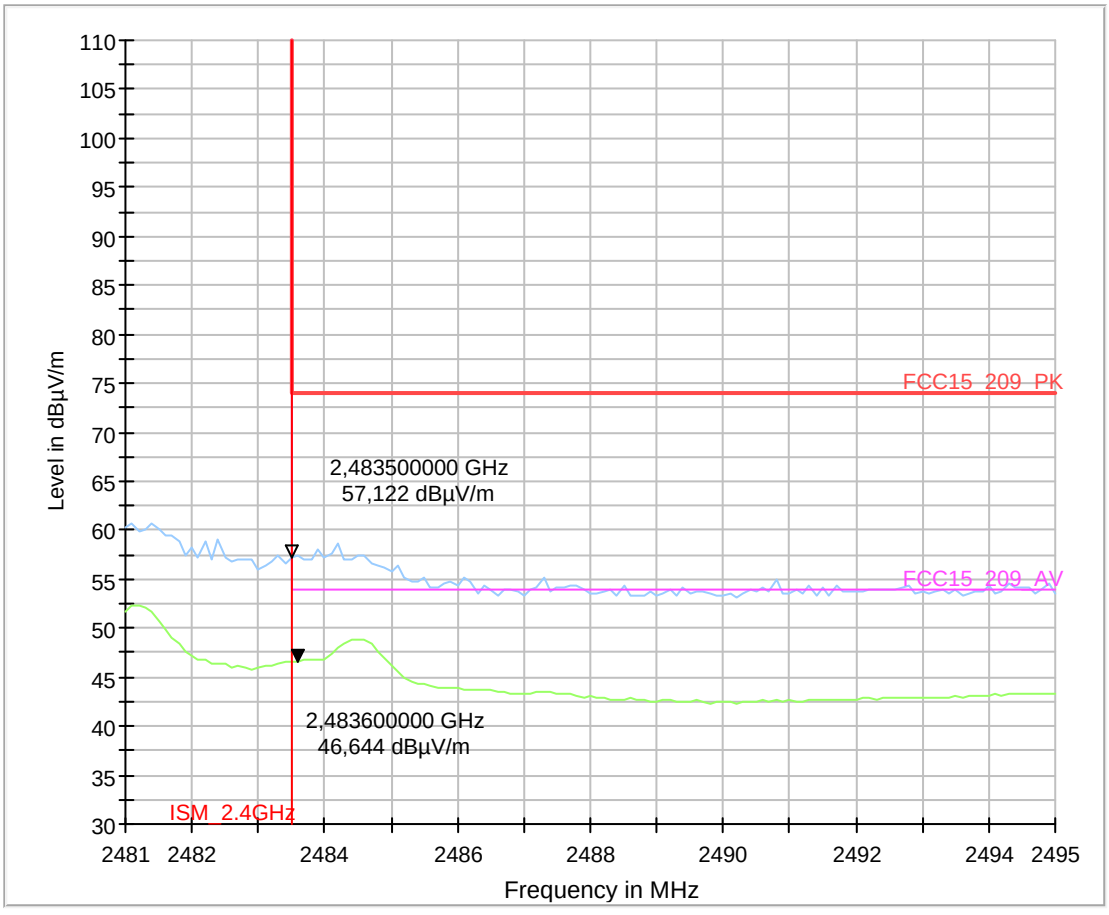
9.22_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port) MSK | 50 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated)-Power+12dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω



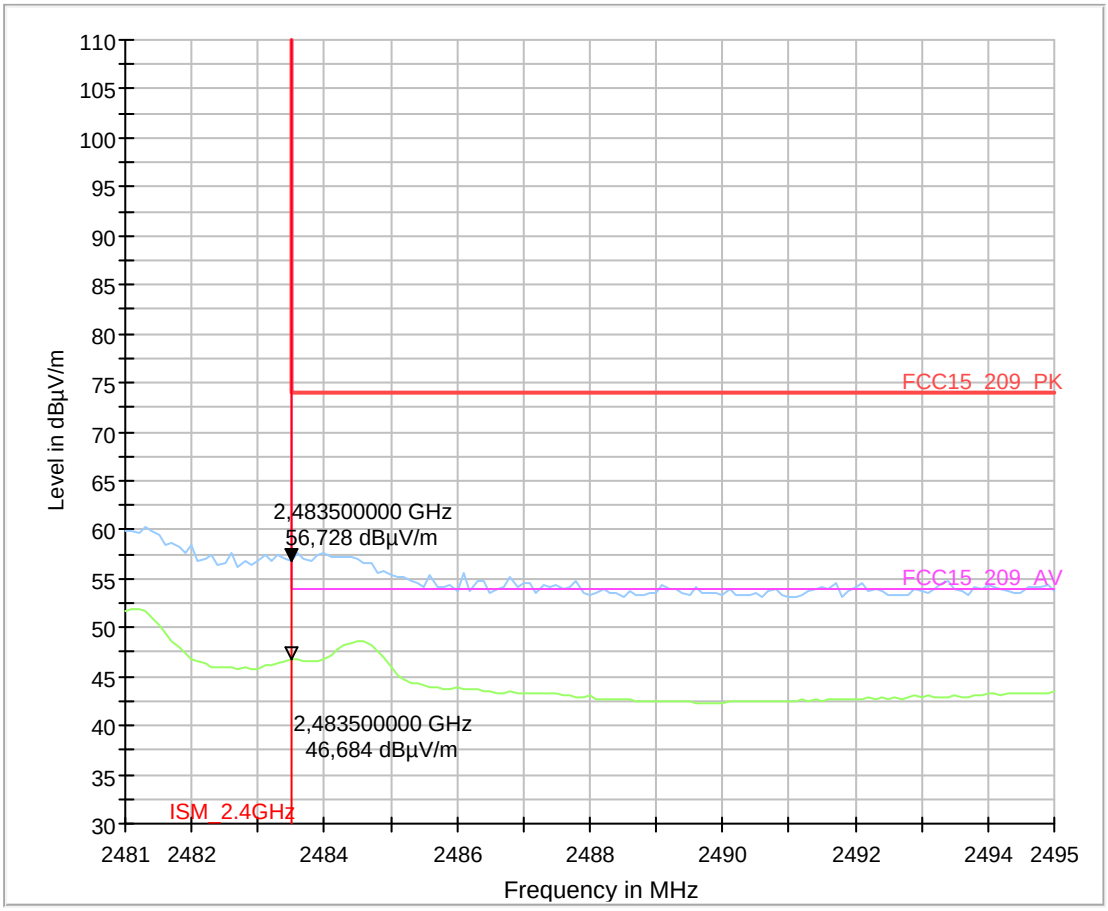
9.24_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper2.4 GHz Port) MSK | 100 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated)-Power+12dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω



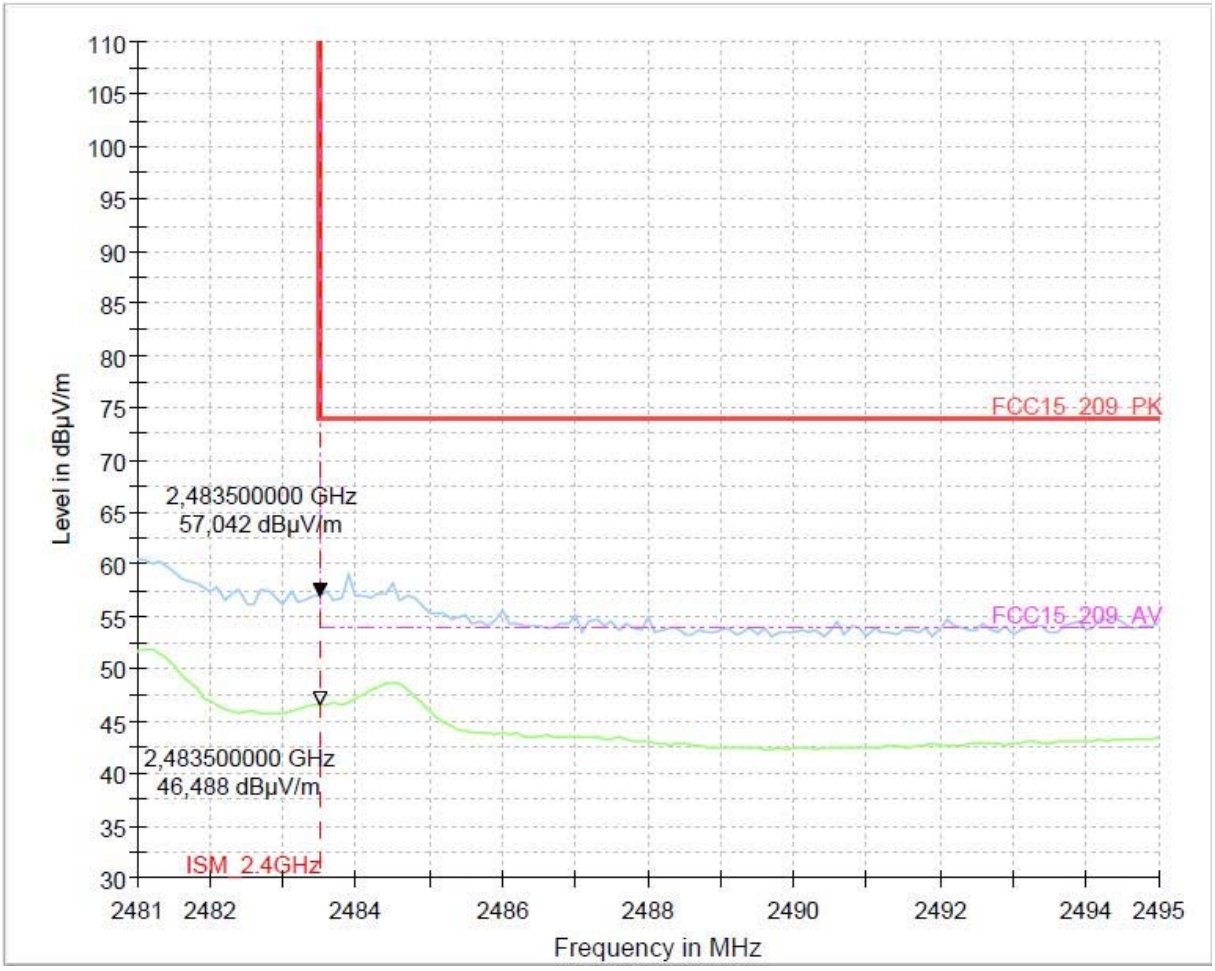
9.26_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upperr2.4 GHz Port) MSK | 250 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power +12dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω



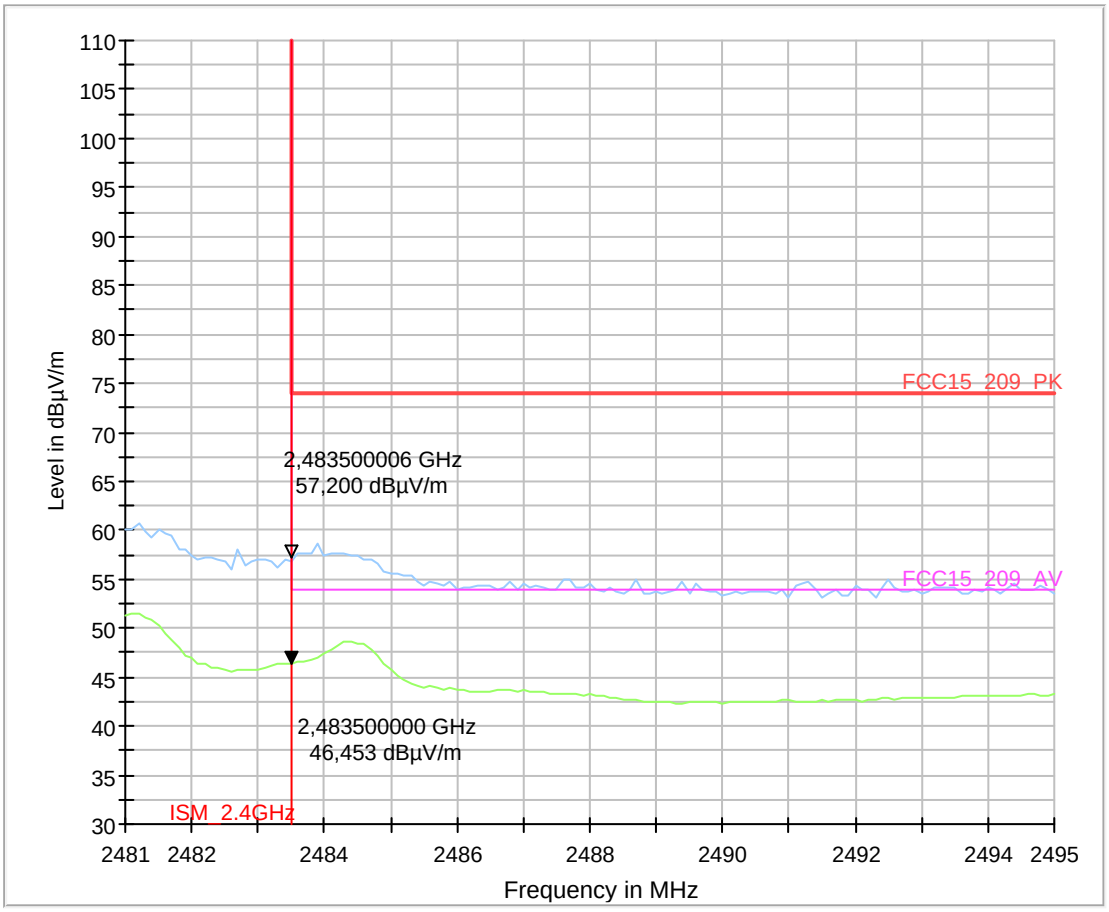
9.28_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper2.4 GHz Port) MSK | 500 Kbps |69 (2471.5 MHz) Fixed Chanel (modulated) Power 12dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω



4.5.3. Low Channel Hopping Mode (2.4 GHz ISM: left band edge)

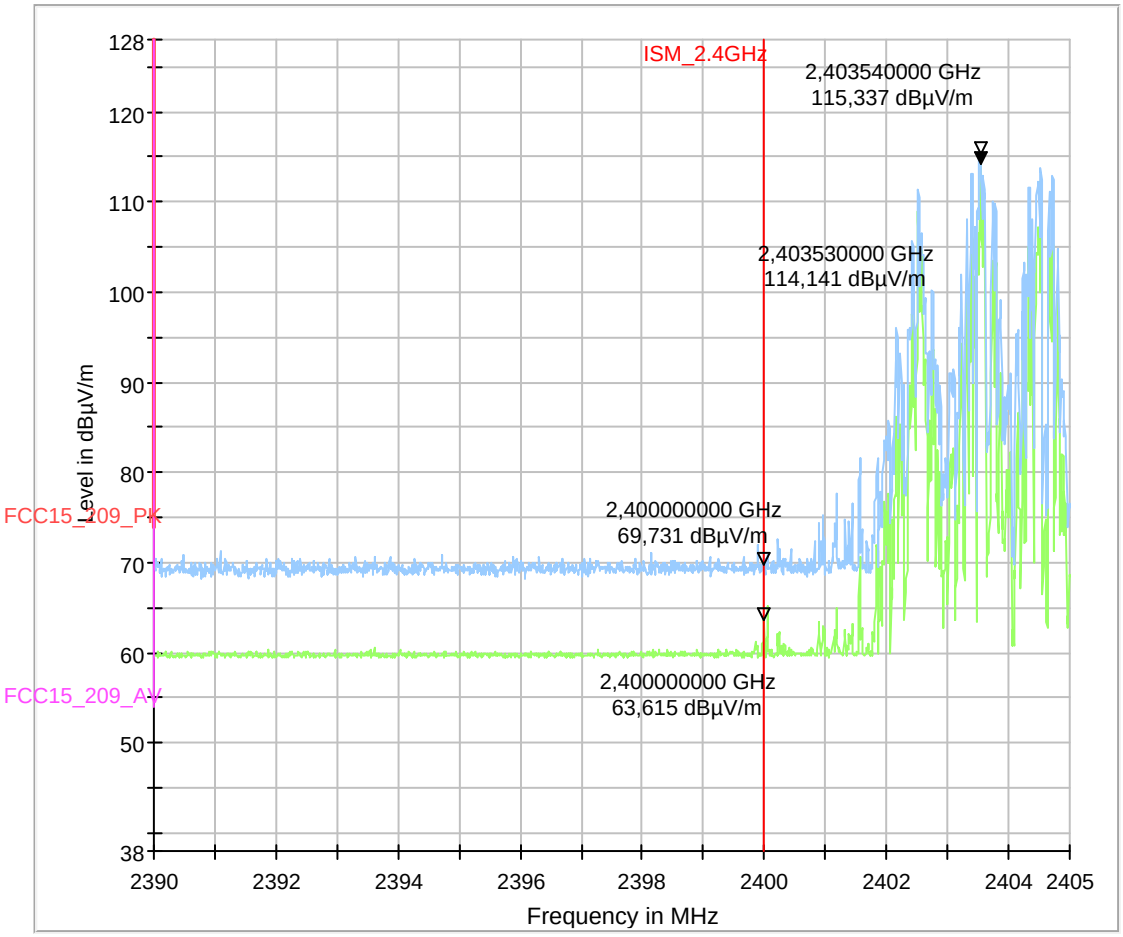
9.29a_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port) MSK | 500 Kbps | Hopping Mode (Master)
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3]

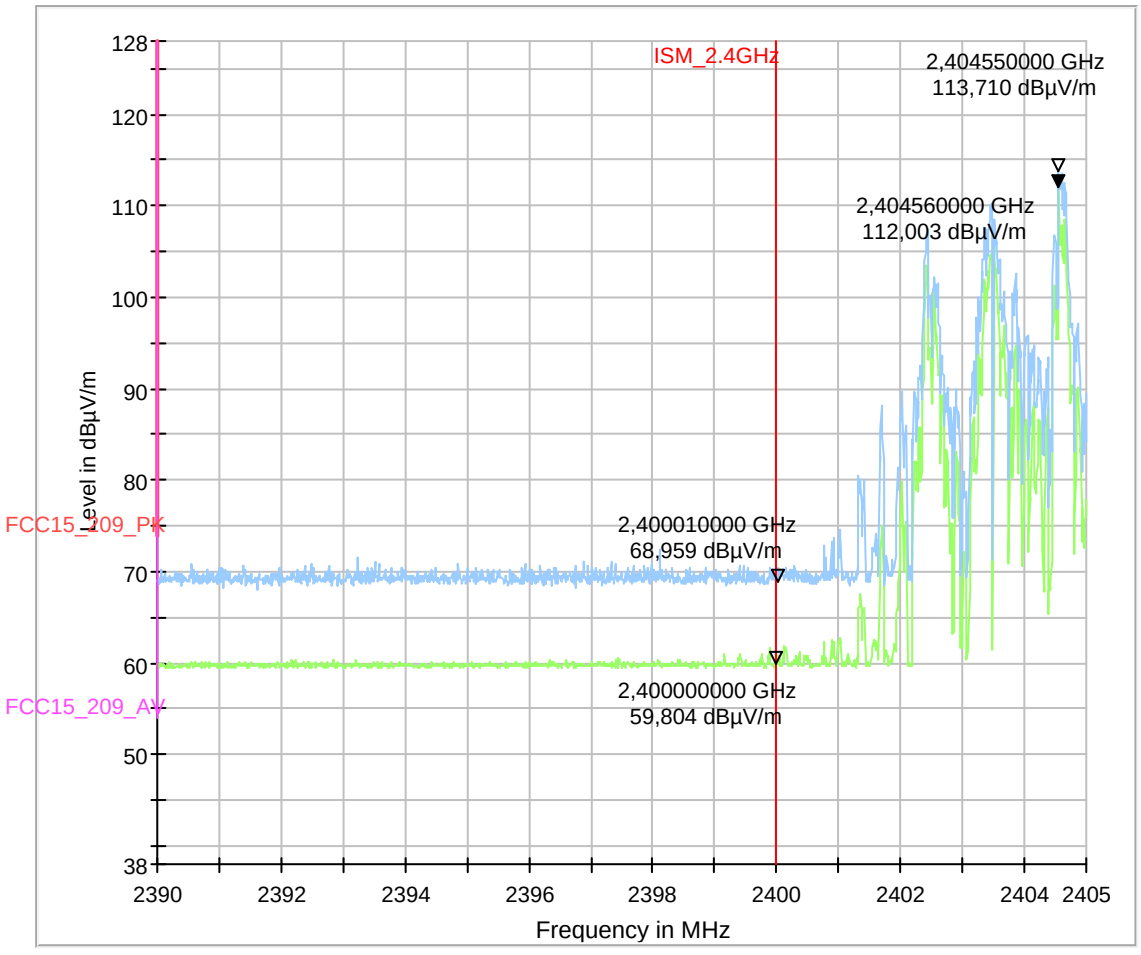
9.30a_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper2.4 GHz Port) MSK | 250 Kbps | Hopping Mode (Master)
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3]

4.5.4. High Channel Hopping Mode (2.4 GHz ISM: left band edge)

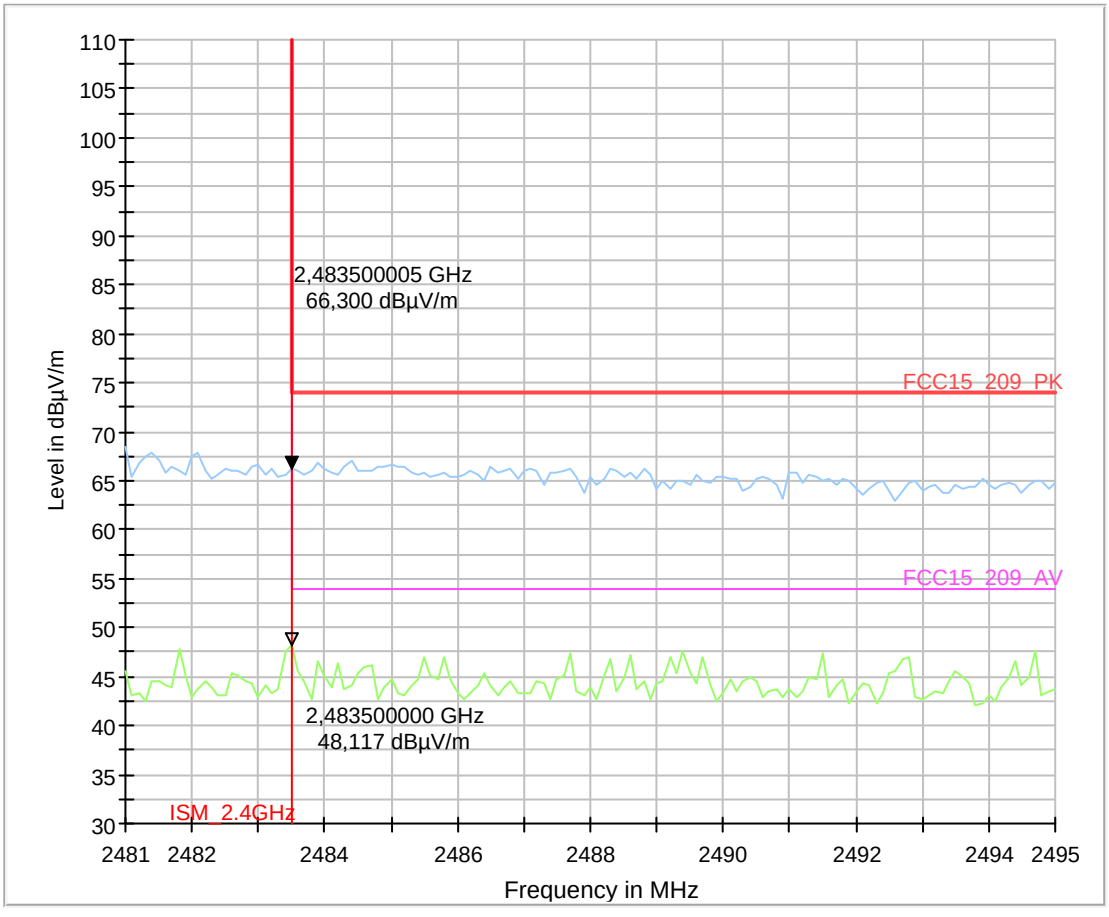
9.29b_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps-High- FINAL

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper2.4 GHz Port) MSK | 500 Kbps | Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω



9.30b_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps-High

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper2.4 GHz Port) MSK | 250 Kbps | Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 | 2| 3| 4) are terminated with 50 Ω