

8 FCC Part 2.1049(c)(1): Occupied Bandwidth; Part 90.210 Authorized Bandwidth; Part 74.462: Authorized Bandwidth and Emissions; Part 80.205: Bandwidths; §80.211: Emission Limitations; ISED RSS-119 5.5: Channel Bandwidth, Authorized Bandwidth, Occupied Bandwidth and Spectrum Masks

Occupied Bandwidth - Compliance with the Emission Masks

8.1 Test Procedure

ANSI C63.26-2015, section 5.4

Device with digital modulation: Modulated to its maximum extent using a pseudo-random data sequence.

Part 90.210 Authorized Bandwidth

Applicable Emission Masks		
Frequency Band (MHz)	Mask for Equipment With Audio Low Pass Filter	Mask for Equipment Without Audio Low Pass Filter
Below 25 ¹	A or B.....	A or C
25–50.....	B.....	C
72–76.....	B.....	C
150–174 ²	B, D, or E.....	C, D, or E
150 Paging-only	B.....	C
220–222	F.....	F
421–512 ²	B, D, or E.....	C, D, or E
450 Paging-only	B.....	G
806–809/851–854	B.....	H
809–824/854–869 ^{3 5}	B.....	G
896–901/935–940	I.....	J
902–928	K.....	K
929–930	B.....	G
4940–4990 MHz	L or M.....	L or M
5850–5925 ⁴		
All other bands	B.....	C

¹ Equipment using single sideband J3E emission must meet the requirements of Emission Mask A. Equipment using other emissions must meet the requirements of Emission Mask B or C, as applicable.

² Equipment designed to operate with a 25 kHz channel bandwidth must meet the requirements of Emission Mask B or C, as applicable. Equipment designed to operate with a 12.5 kHz channel bandwidth must meet the requirements of Emission Mask D, and equipment designed to operate with a 6.25 kHz channel bandwidth must meet the requirements of Emission Mask E.

³ Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of §90.691.

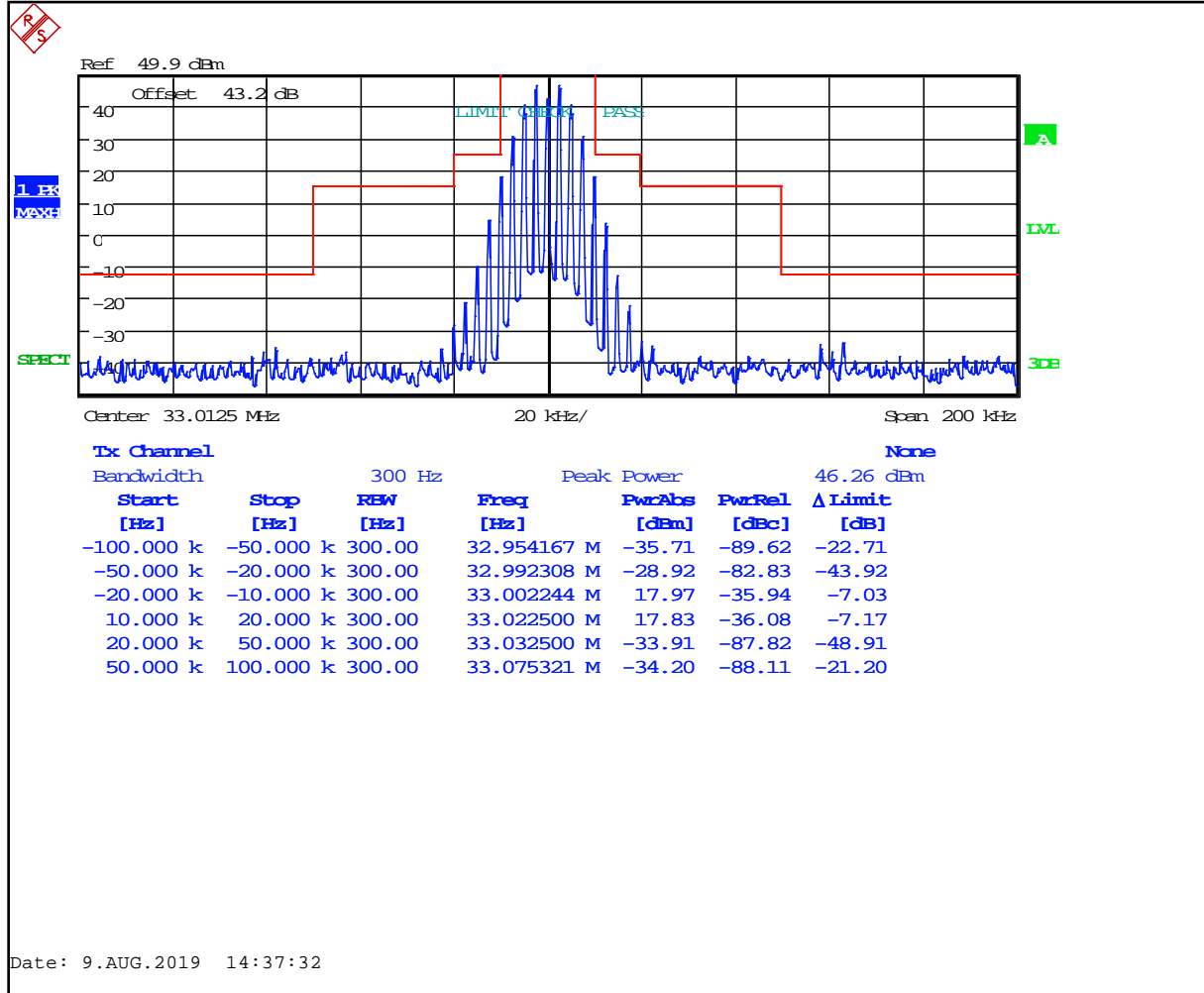
⁴ DSRCS Roadside Unit equipment in the 5850–5925 MHz band is governed under subpart M of this part.

⁵ Equipment may alternatively meet the Adjacent Channel Power limits of §90.221.

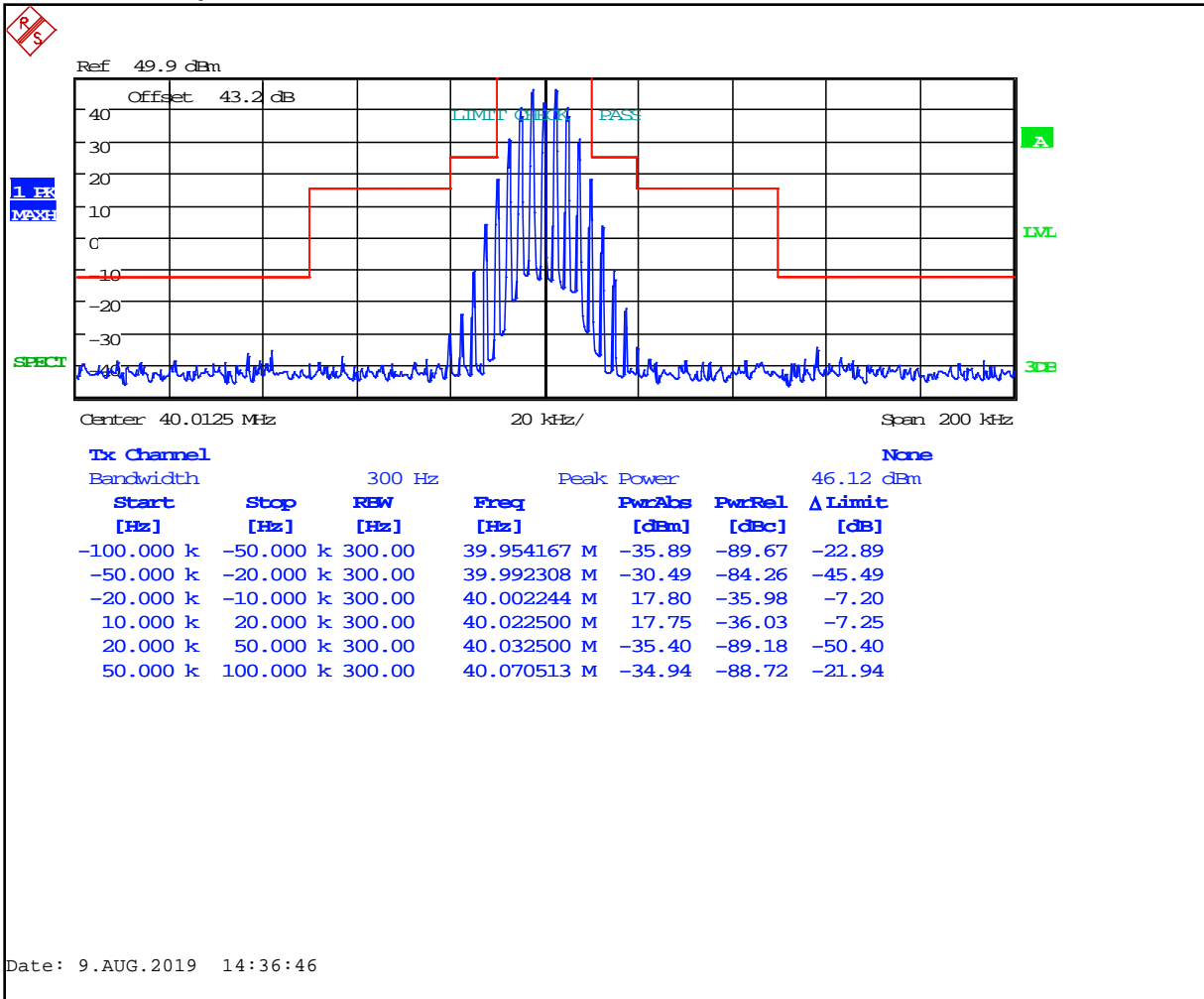
Applicable IC Emission Masks					
Frequency Band (MHz)	Related SRSP for Channeling Plan and ERP	Channel Bandwidth (kHz)	Authorized Bandwidth (kHz)	Masks for Equipment With Audio Filter	Masks for Equipment Without Audio Filter
138-144, 148-149.9, 150.05-174	SRSP-500	30	20	B	C
		15	11.25	D	D
		7.5	6	E	E
406.1-430, 450-470	SRSP-501	25	20 22	B Y	C (G for paging systems) Y
		12.5	11.25	D	D
		6.25	6	E	E
806-821/851-866, 821-824/866-869	SRSP-502	25	20 22	B Y	G Y
		12.5	11.25	D	D
		6.25	6	E	E

8.2 Test Data

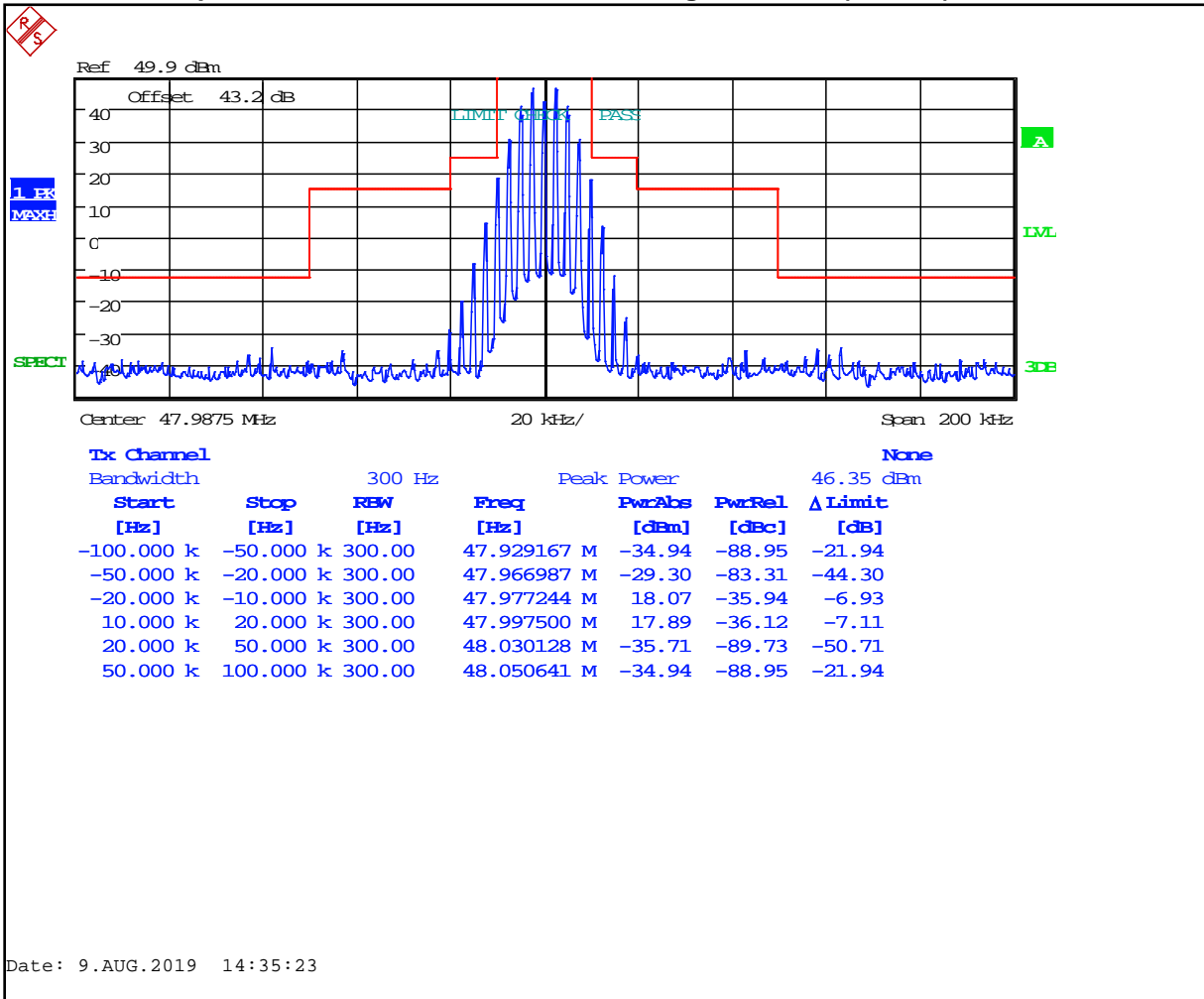
Plot 8-1: Occupied Bandwidth – 33.0125 MHz - Mask B



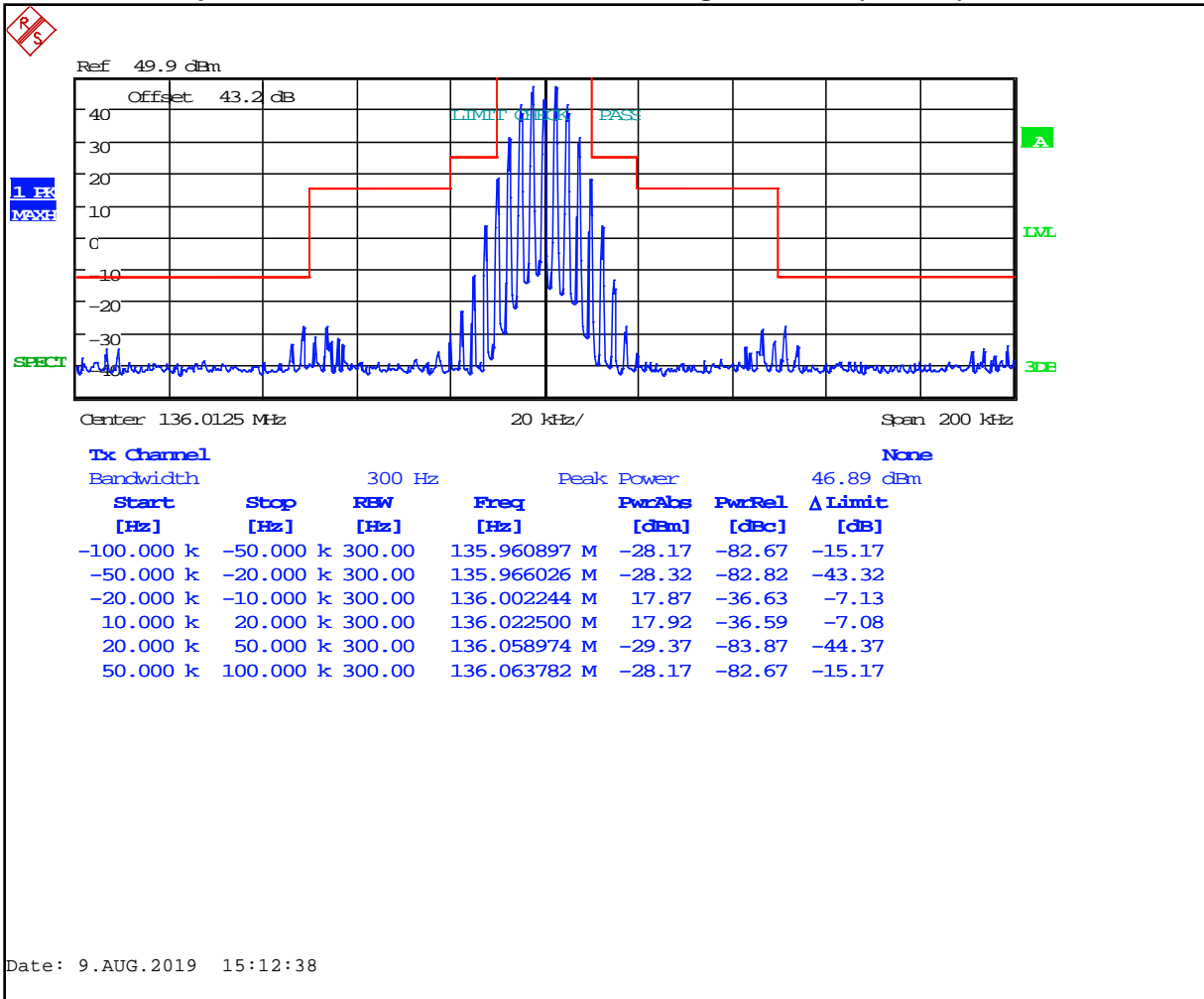
Plot 8-2: Occupied Bandwidth – 40.0125 MHz - Mask B



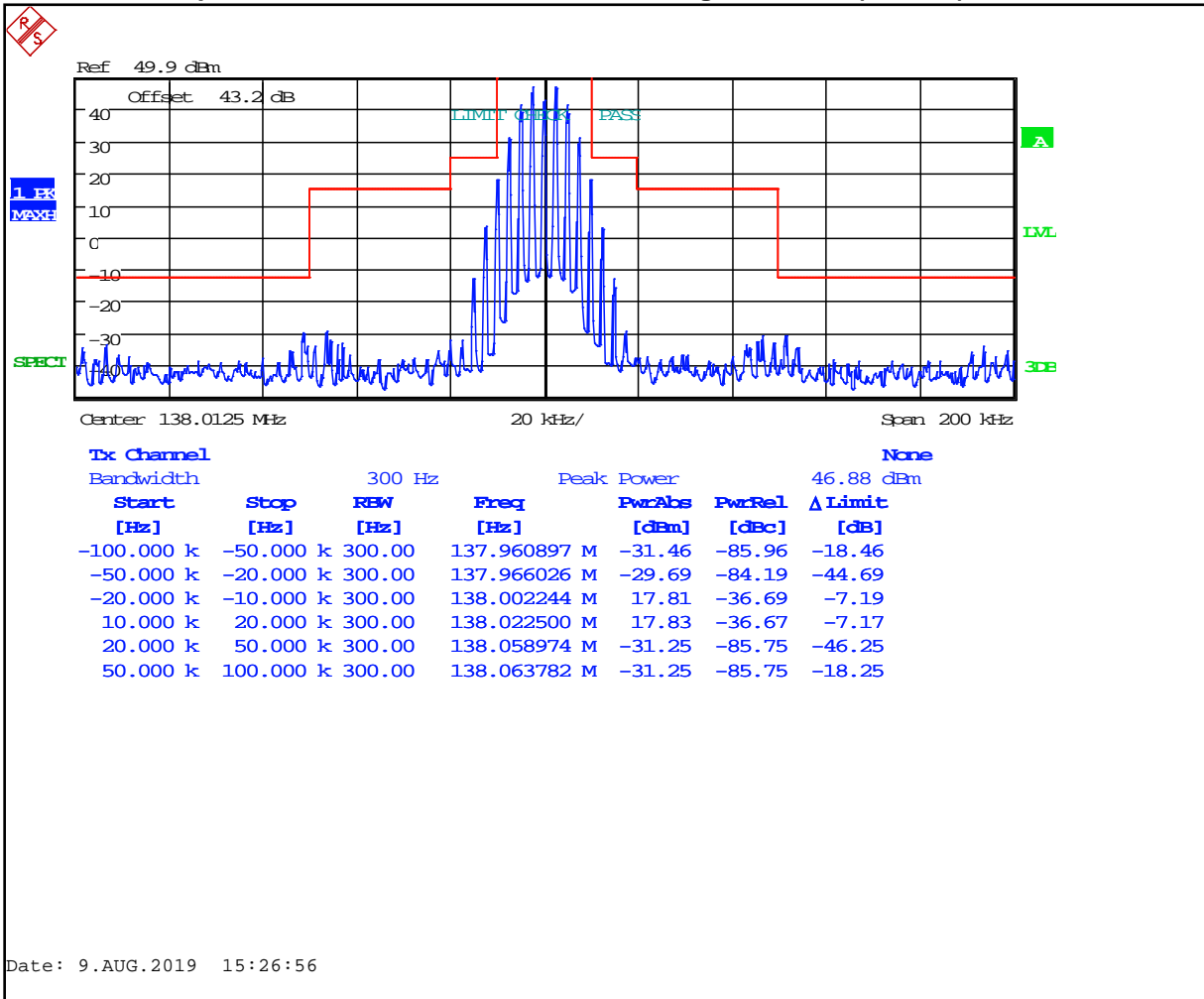
Plot 8-3: Occupied Bandwidth – 47.9875 MHz – Analog Wideband (Mask B)



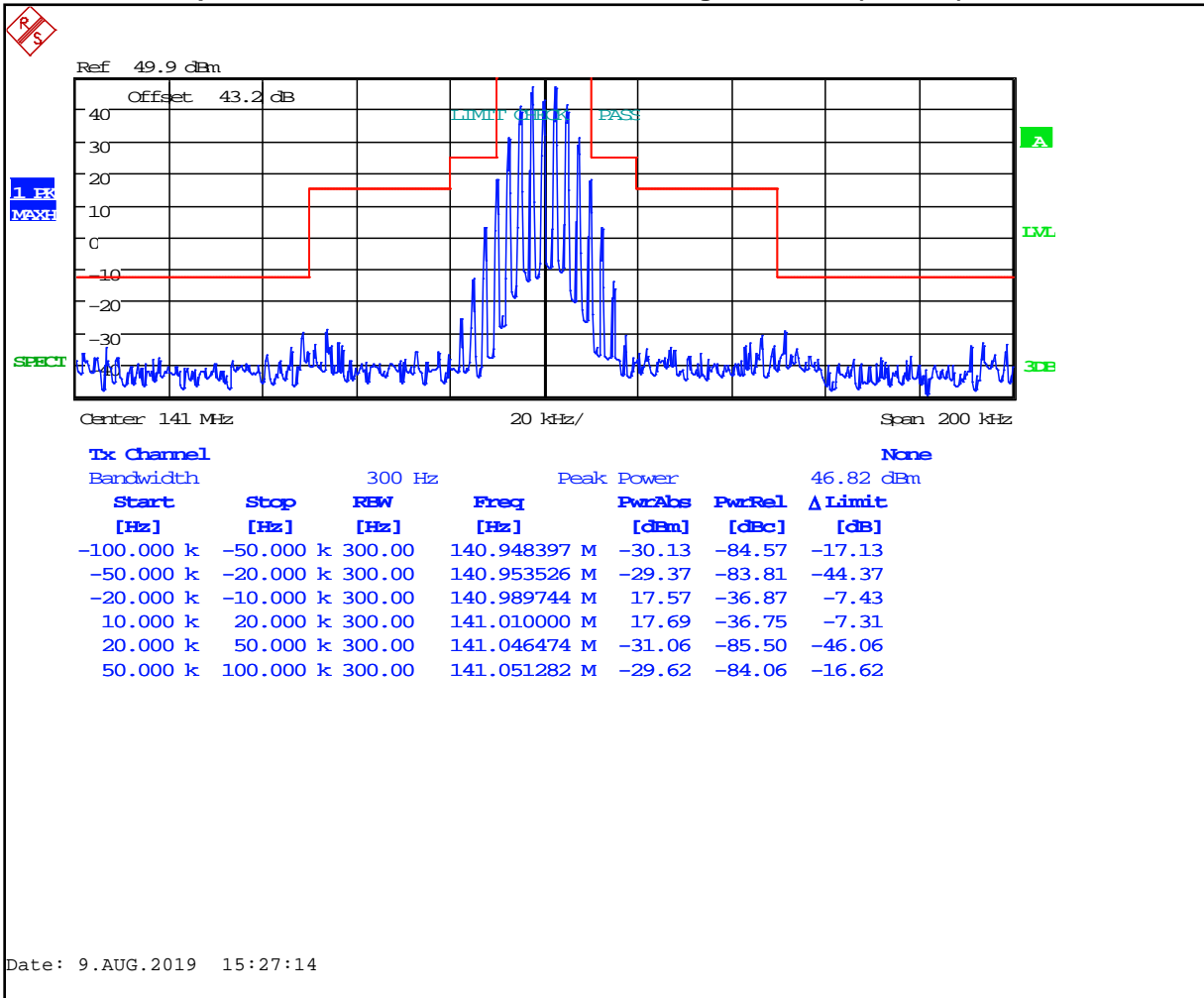
Plot 8-4: Occupied Bandwidth – 136.0125 MHz – Analog Wideband (Mask B)



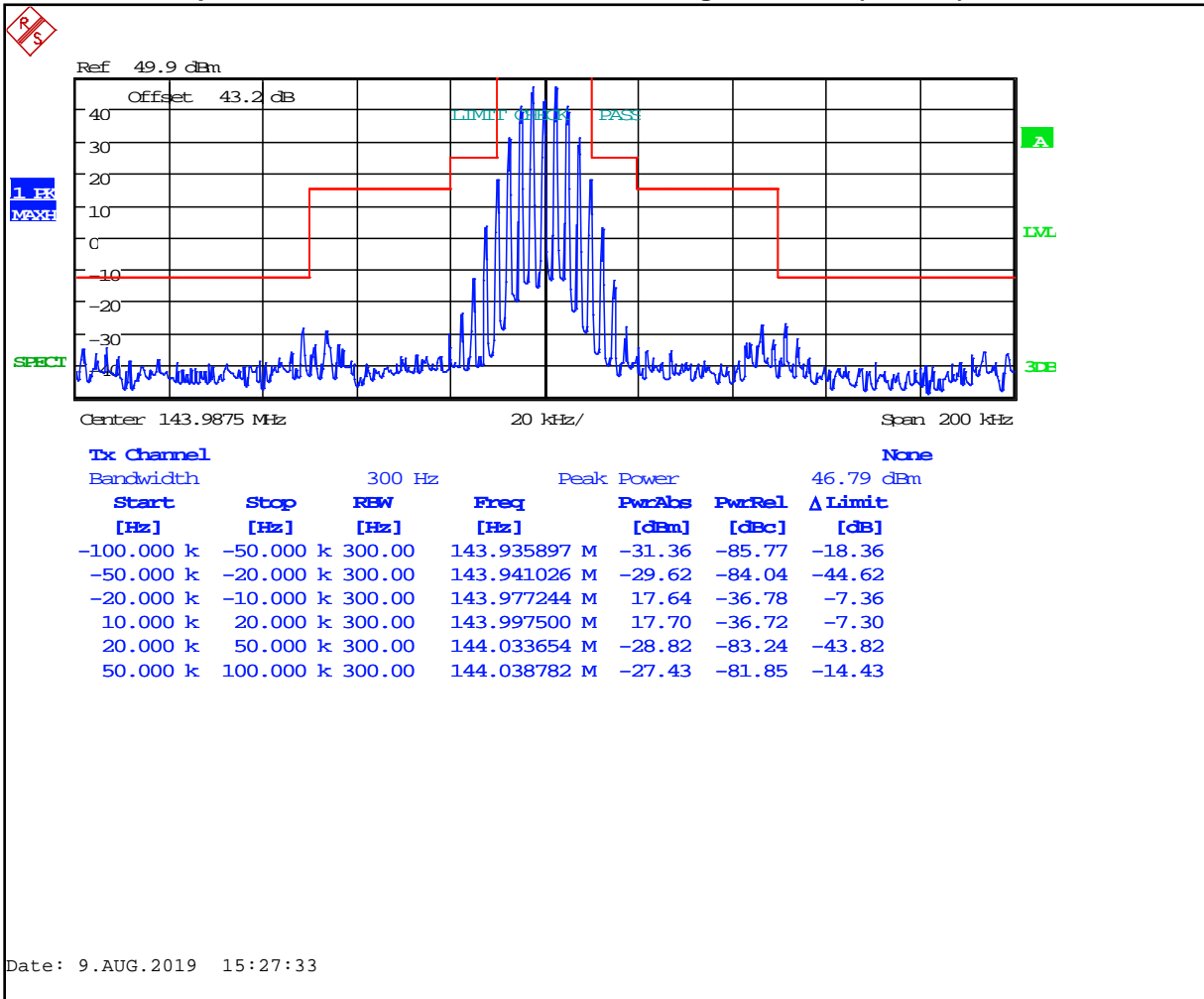
Plot 8-5: Occupied Bandwidth – 138.0125 MHz – Analog Wideband (Mask B)



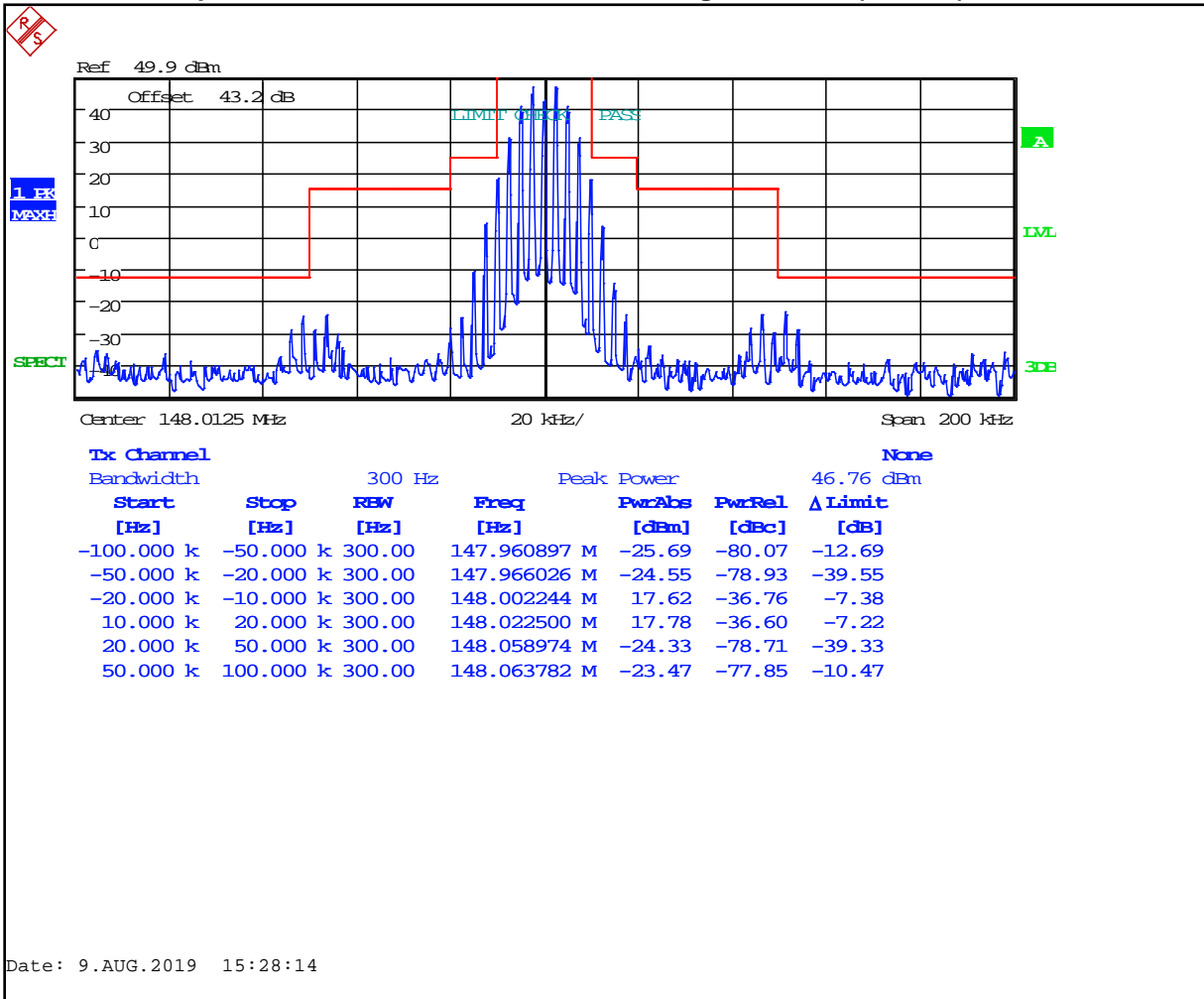
Plot 8-6: Occupied Bandwidth – 141.0000 MHz – Analog Wideband (Mask B)



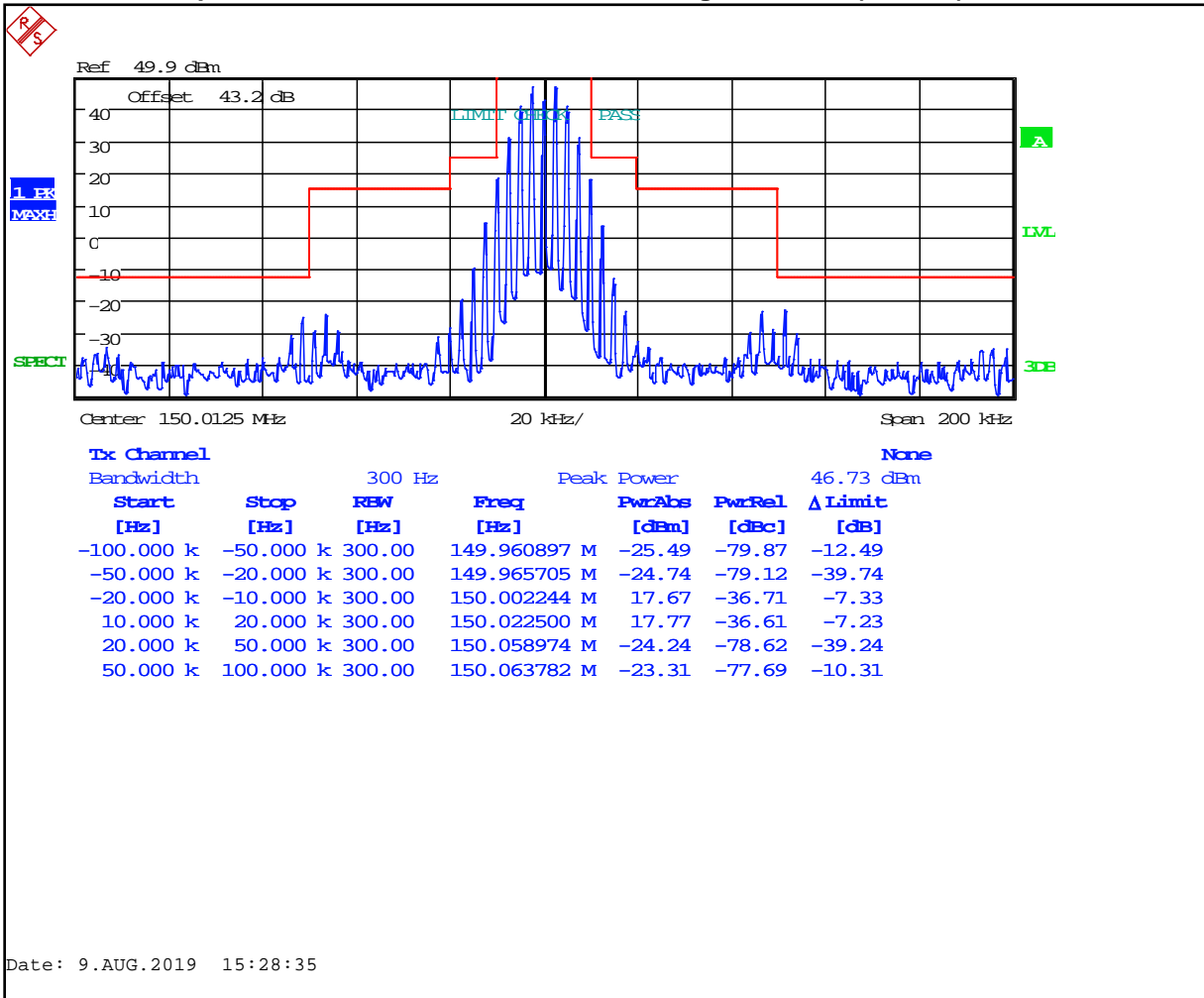
Plot 8-7: Occupied Bandwidth – 143.9875 MHz – Analog Wideband (Mask B)



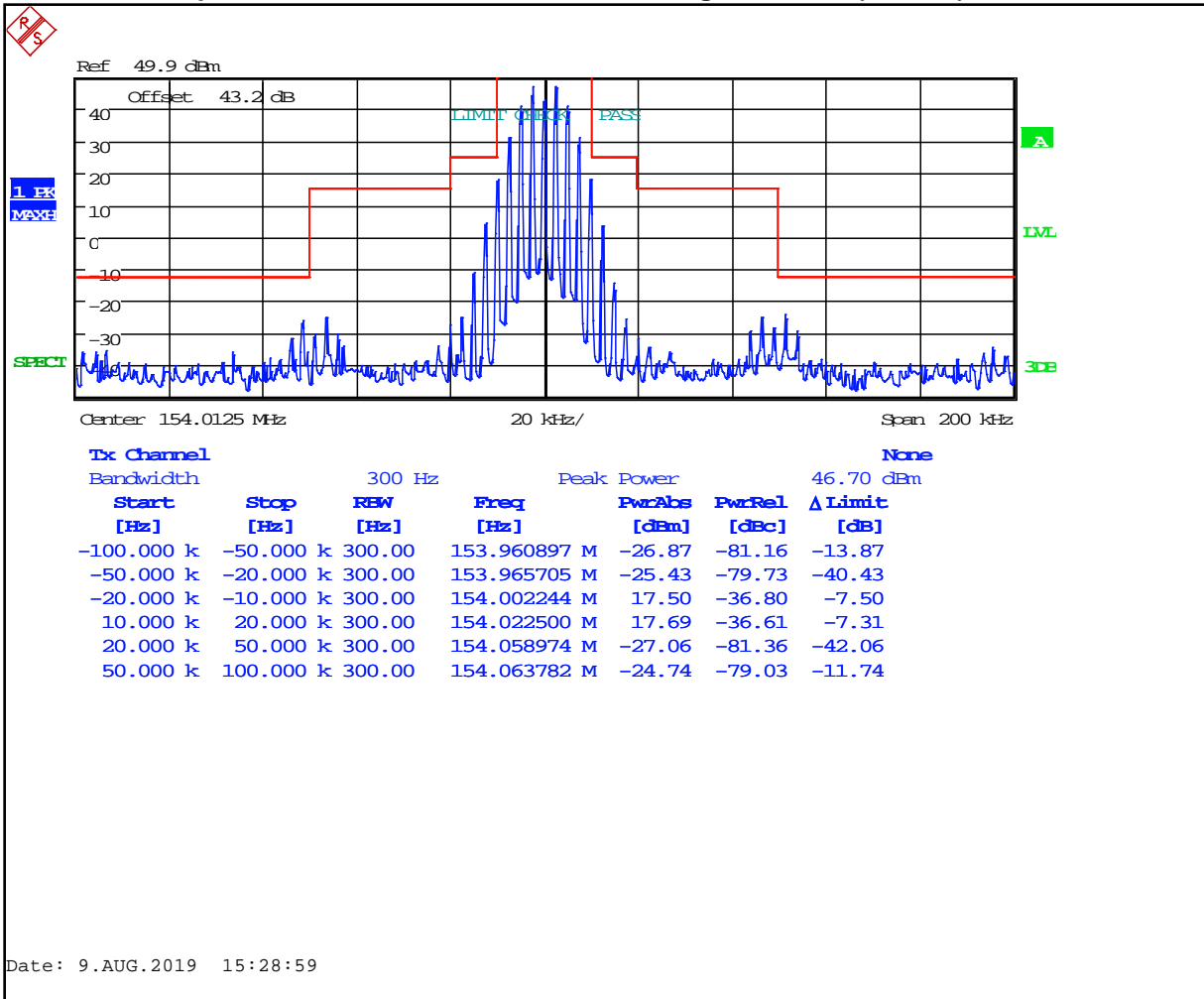
Plot 8-8: Occupied Bandwidth – 148.0125 MHz – Analog Wideband (Mask B)



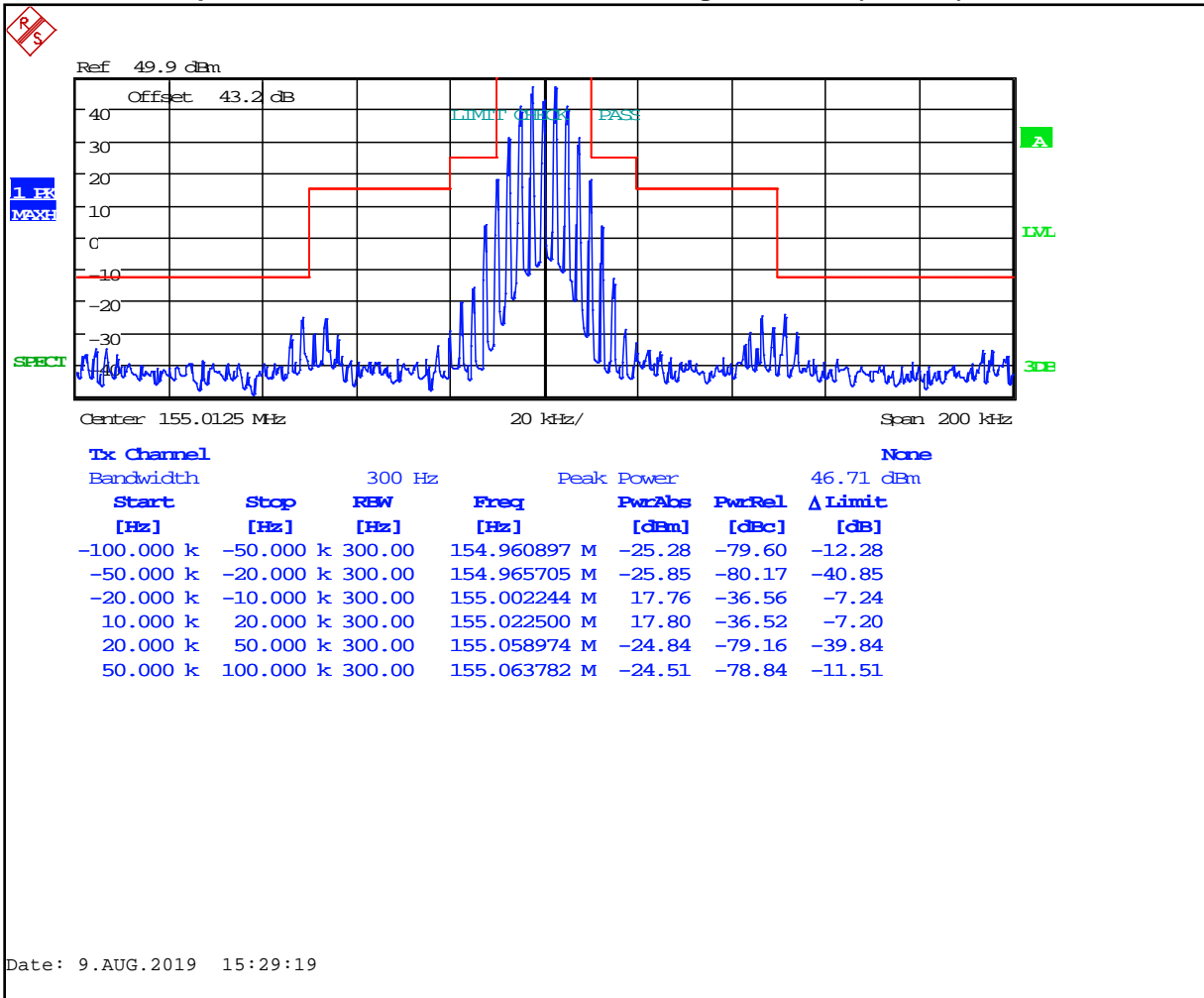
Plot 8-9: Occupied Bandwidth – 150.0125 MHz – Analog Wideband (Mask B)



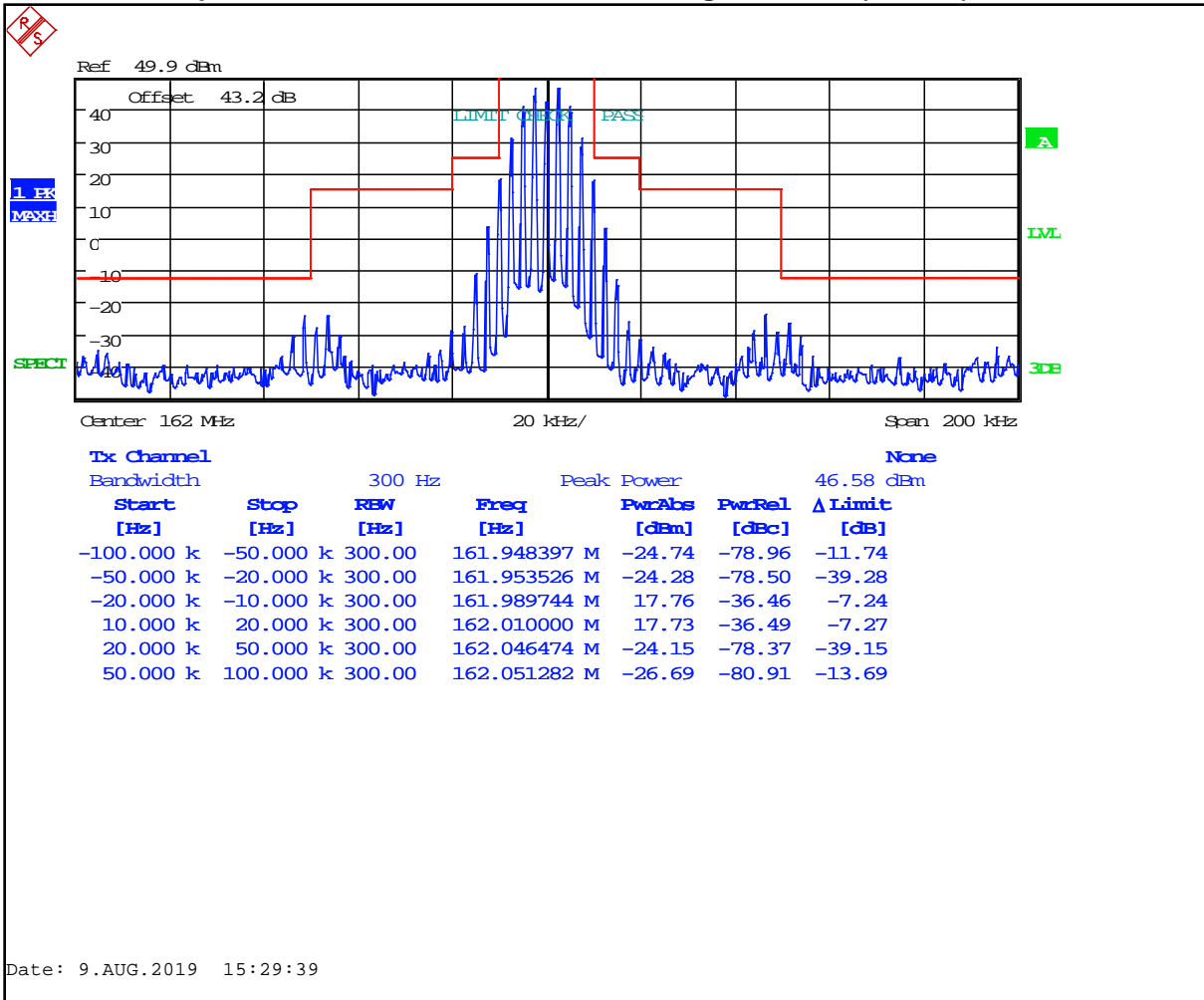
Plot 8-10: Occupied Bandwidth – 154.0125 MHz – Analog Wideband (Mask B)



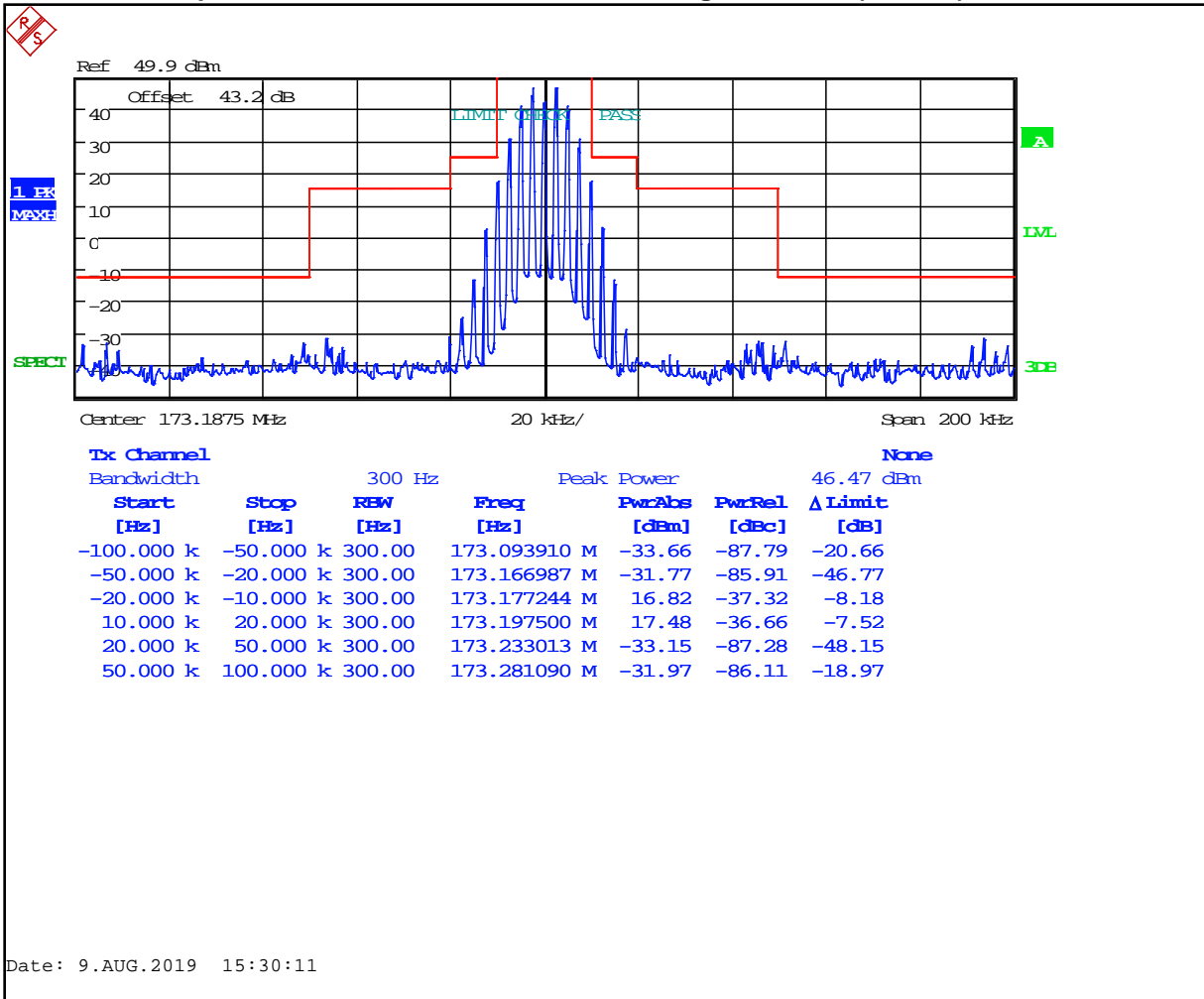
Plot 8-11: Occupied Bandwidth – 155.0125 MHz – Analog Wideband (Mask B)



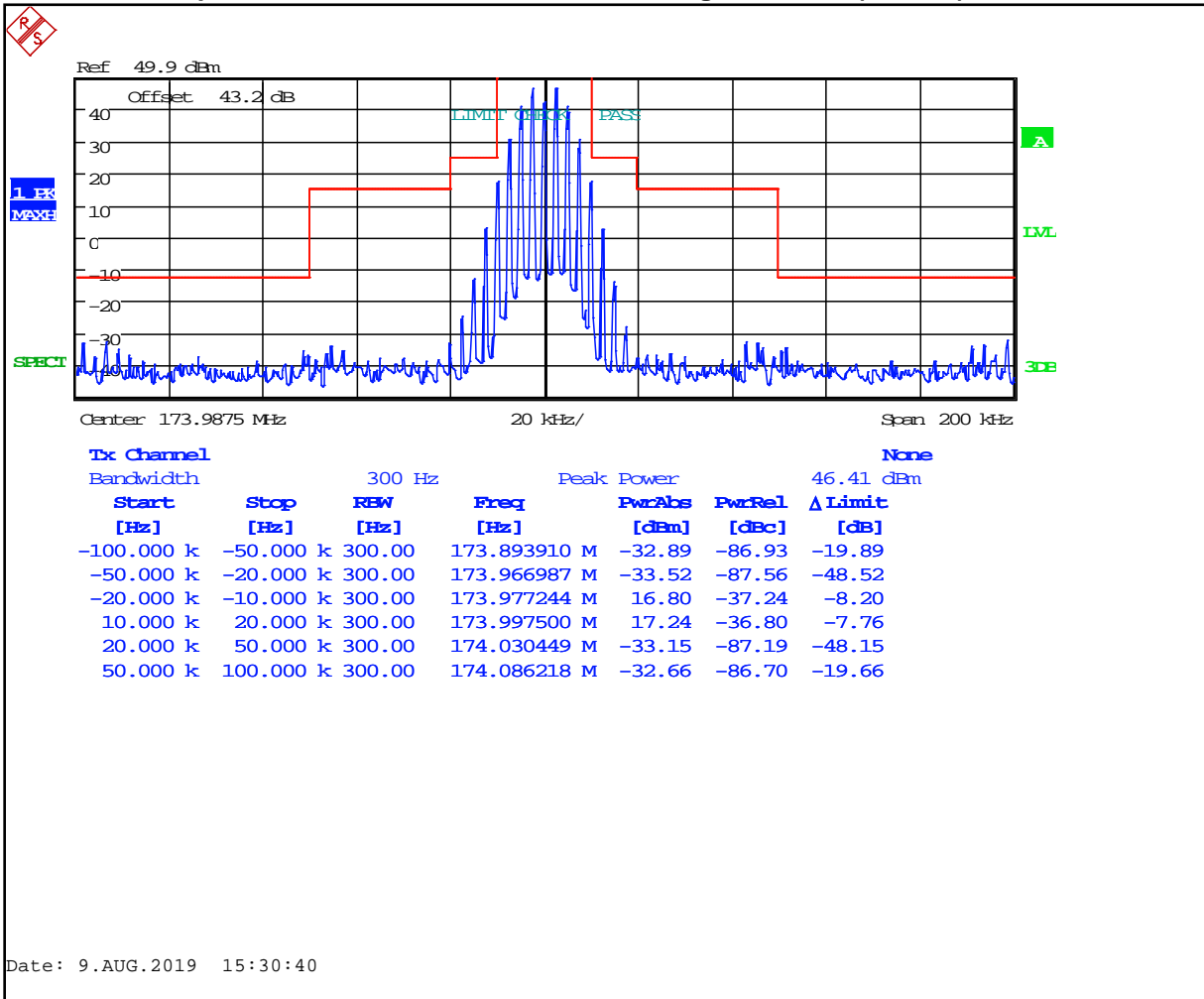
Plot 8-12: Occupied Bandwidth – 162.0000 MHz – Analog Wideband (Mask B)



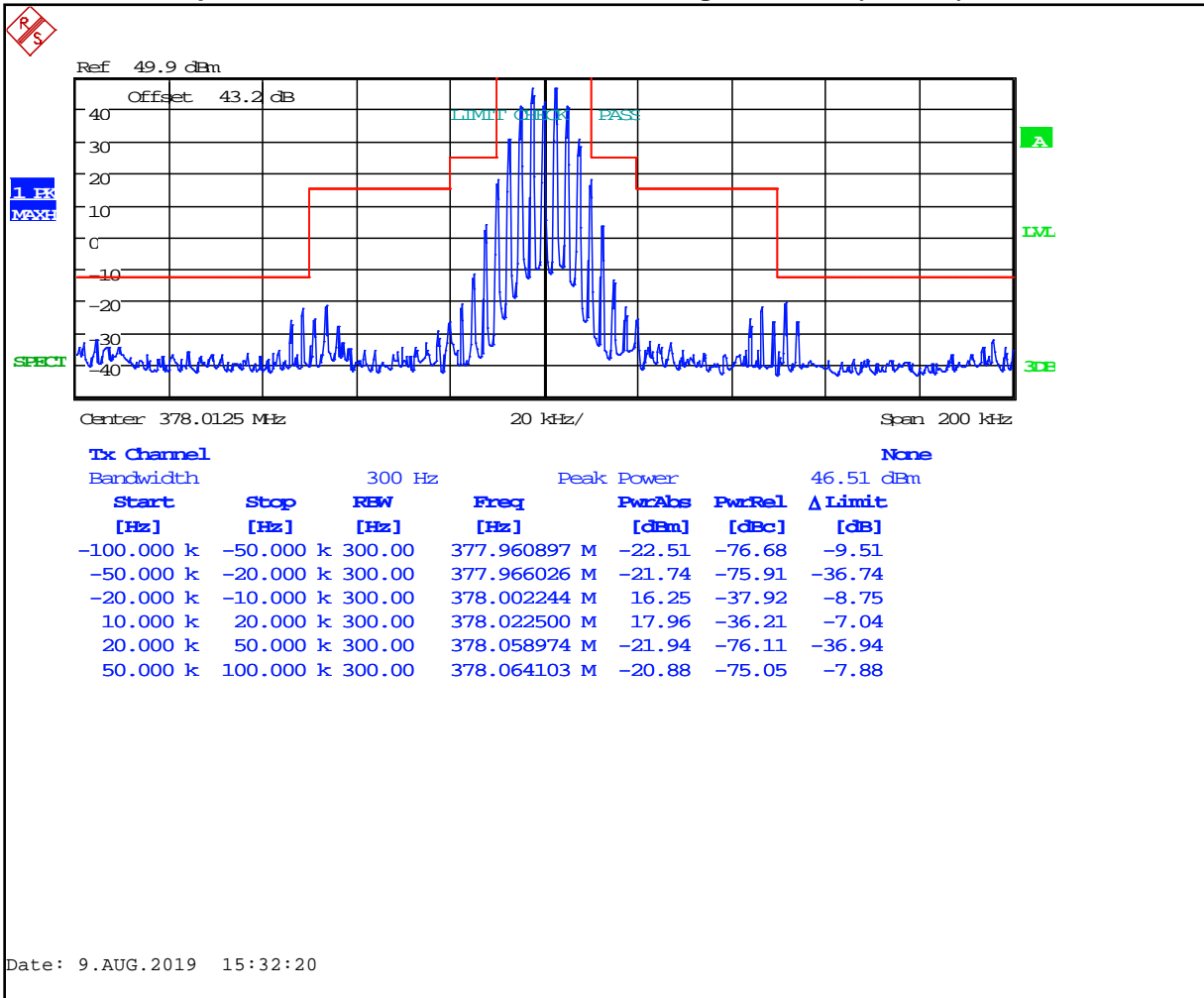
Plot 8-13: Occupied Bandwidth – 173.1875 MHz – Analog Wideband (Mask B)



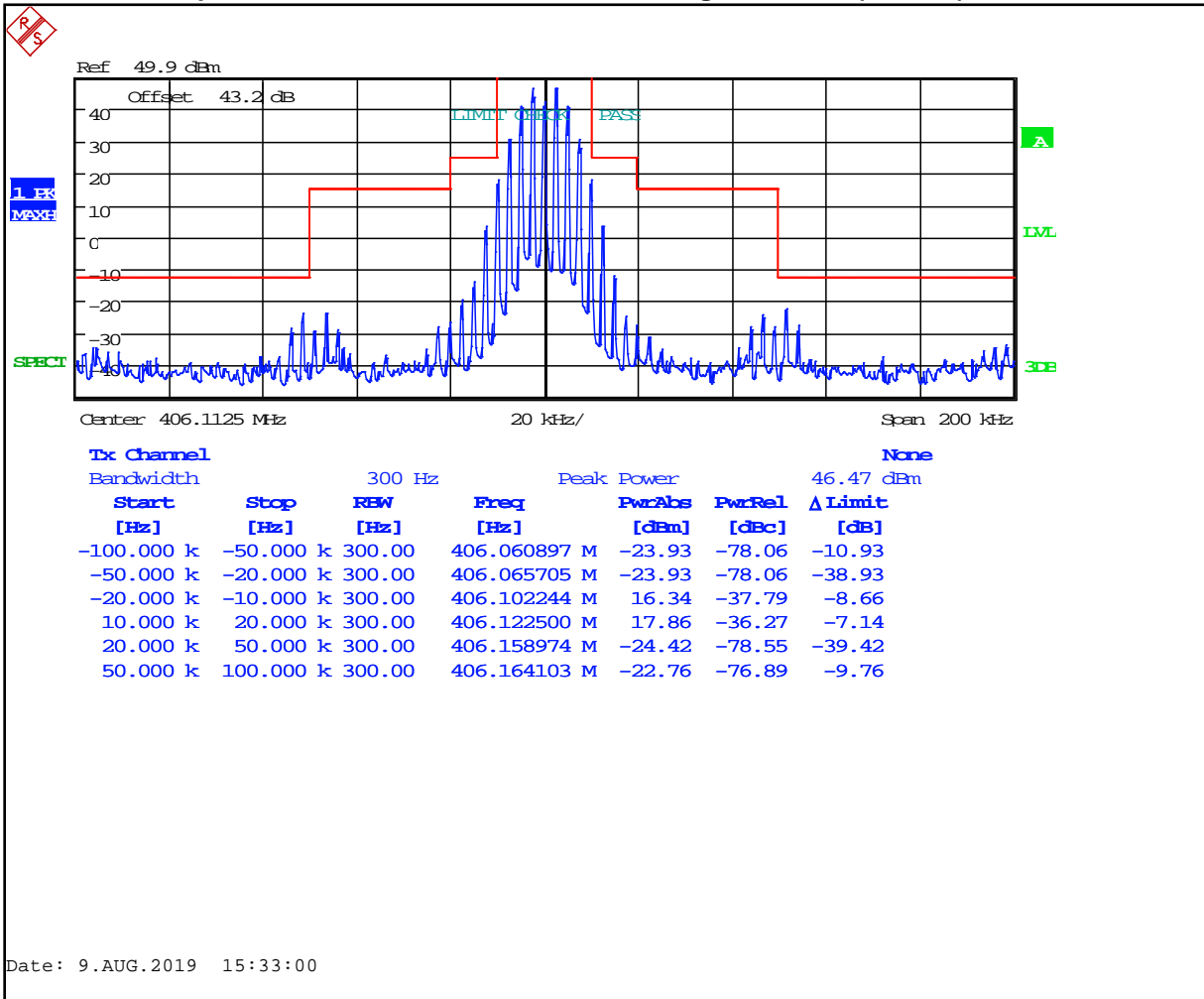
Plot 8-14: Occupied Bandwidth – 173.9875 MHz – Analog Wideband (Mask B)



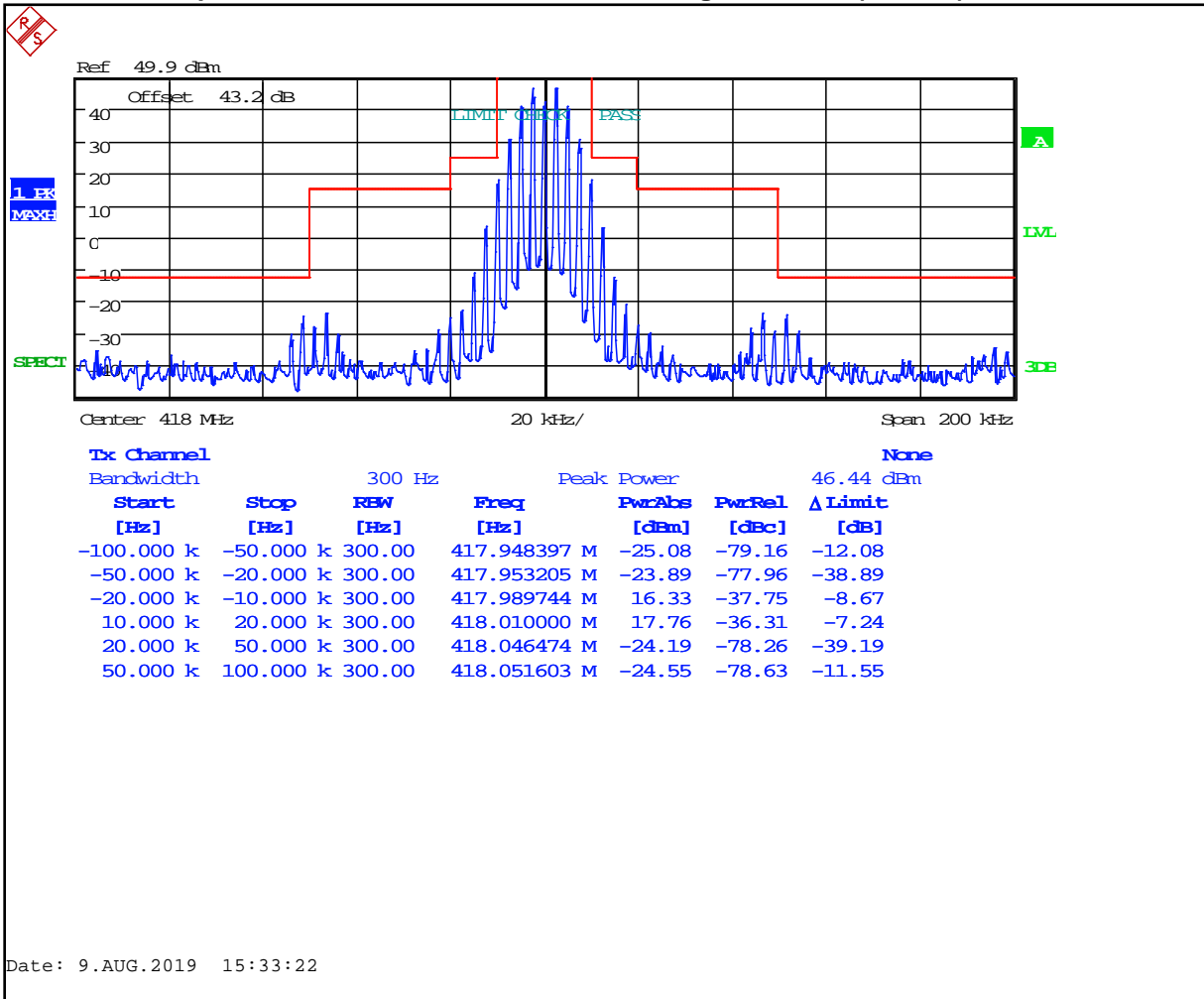
Plot 8-15: Occupied Bandwidth – 378.0125 MHz – Analog Wideband (Mask B)



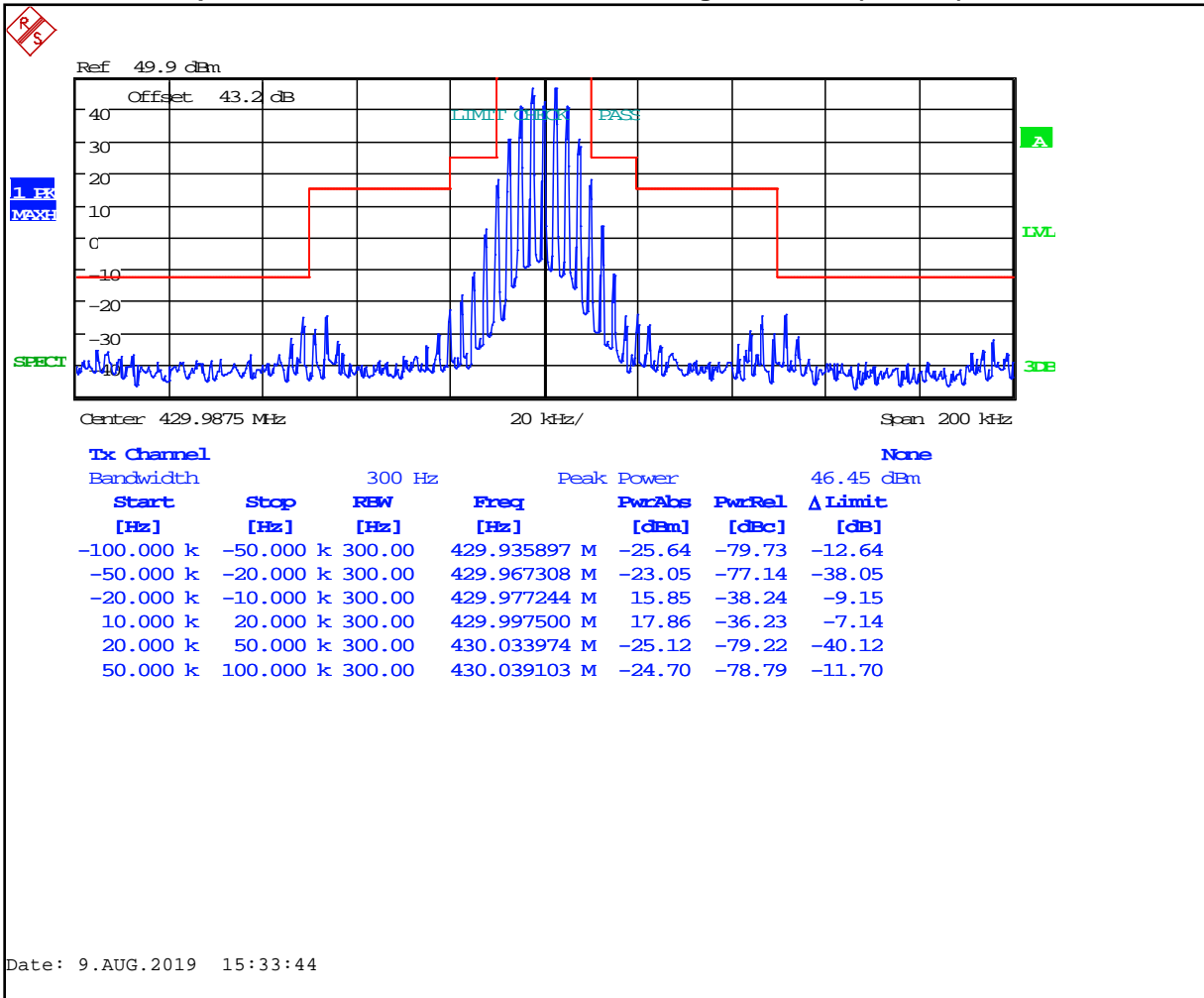
Plot 8-16: Occupied Bandwidth – 406.1125 MHz – Analog Wideband (Mask B)



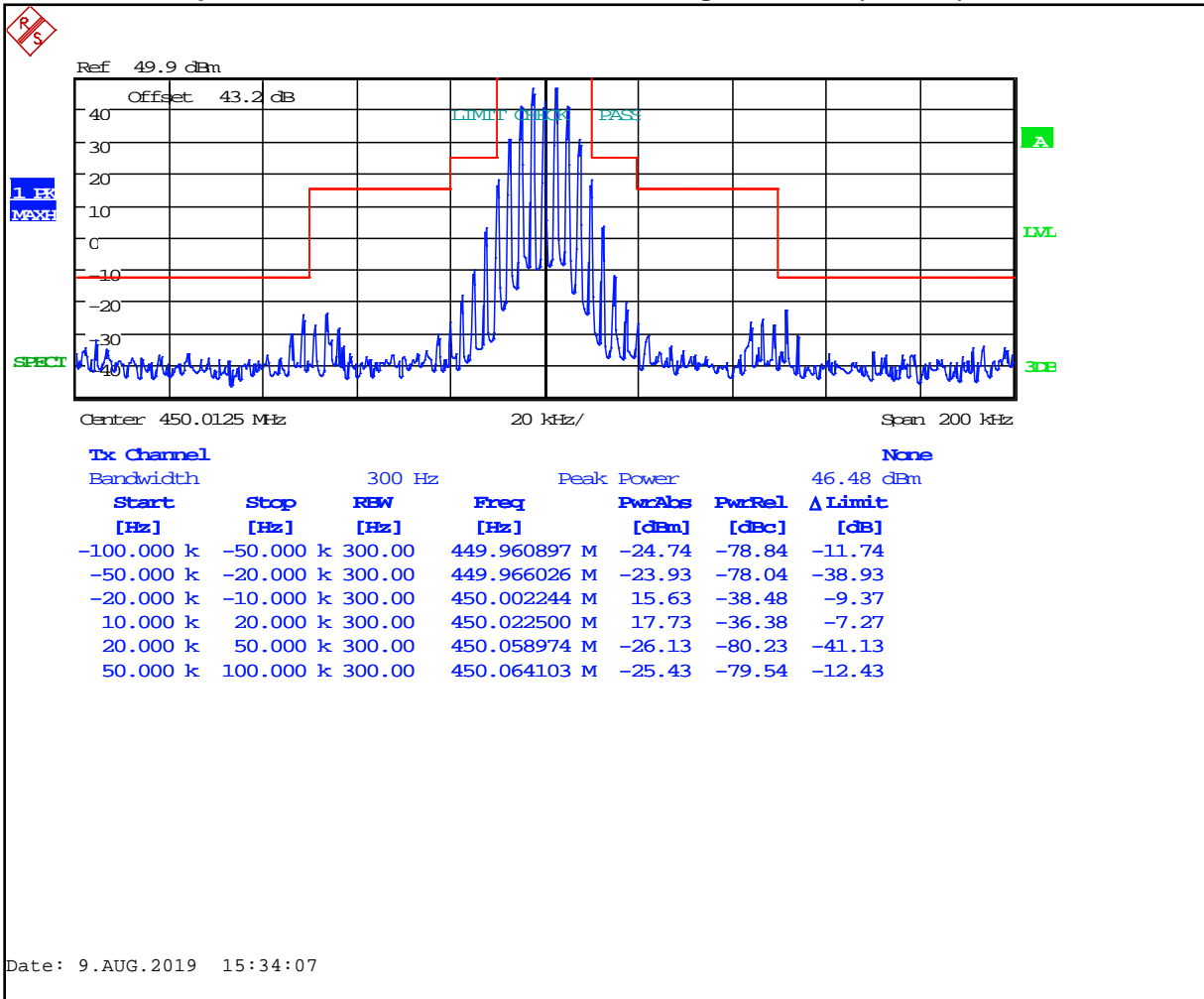
Plot 8-17: Occupied Bandwidth – 418.0000 MHz – Analog Wideband (Mask B)



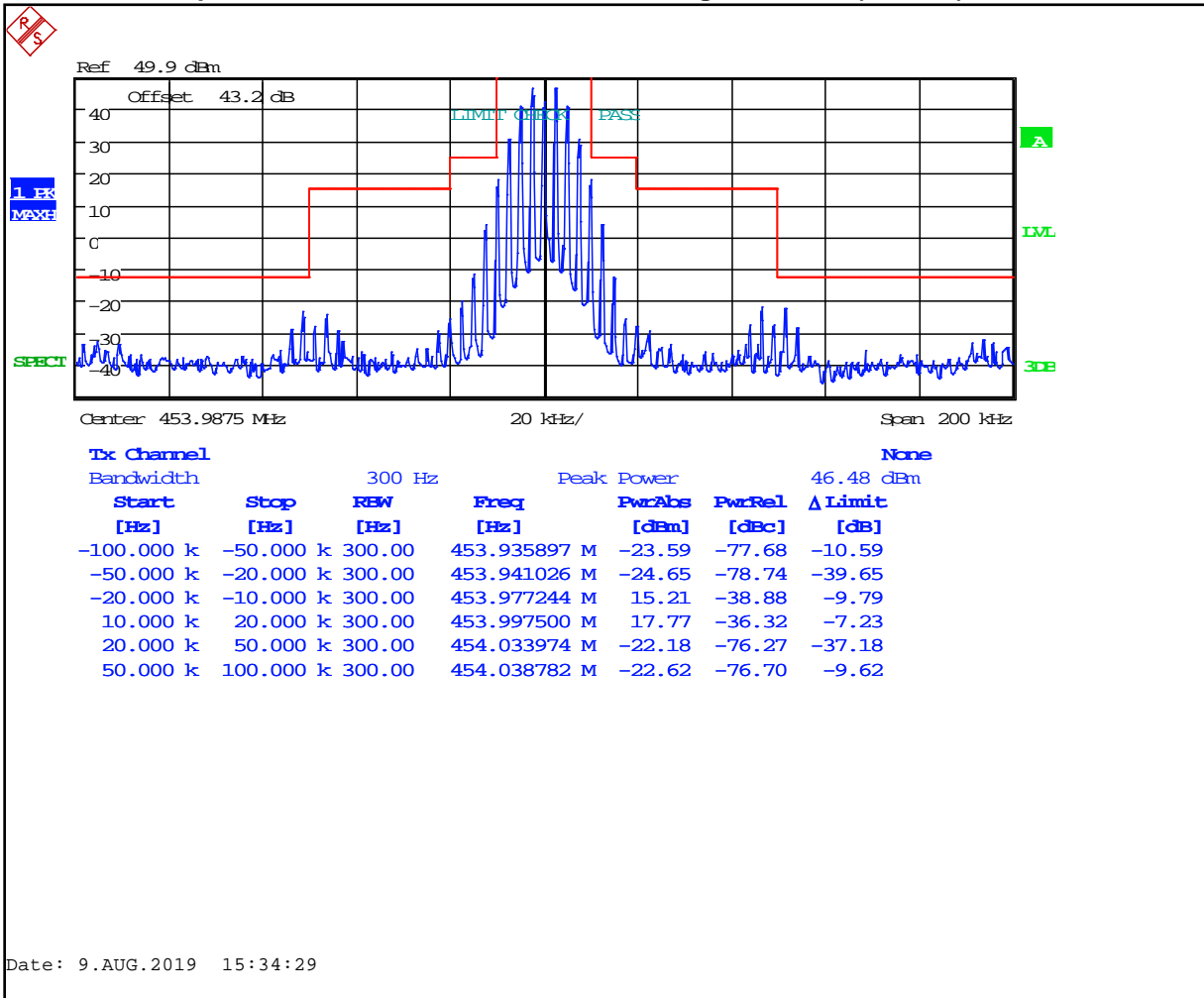
Plot 8-18: Occupied Bandwidth – 429.9875 MHz – Analog Wideband (Mask B)



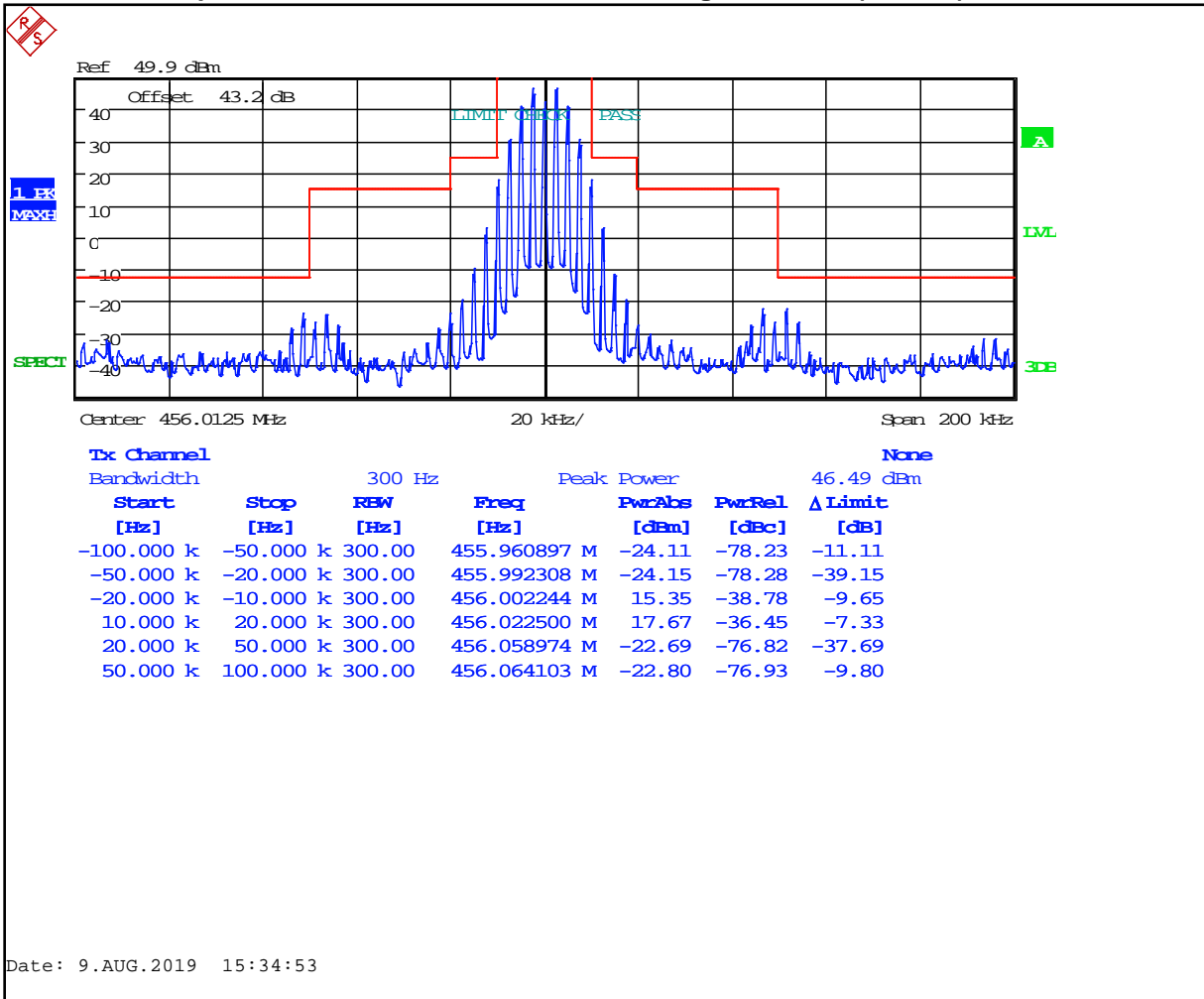
Plot 8-19: Occupied Bandwidth – 450.0125 MHz – Analog Wideband (Mask B)



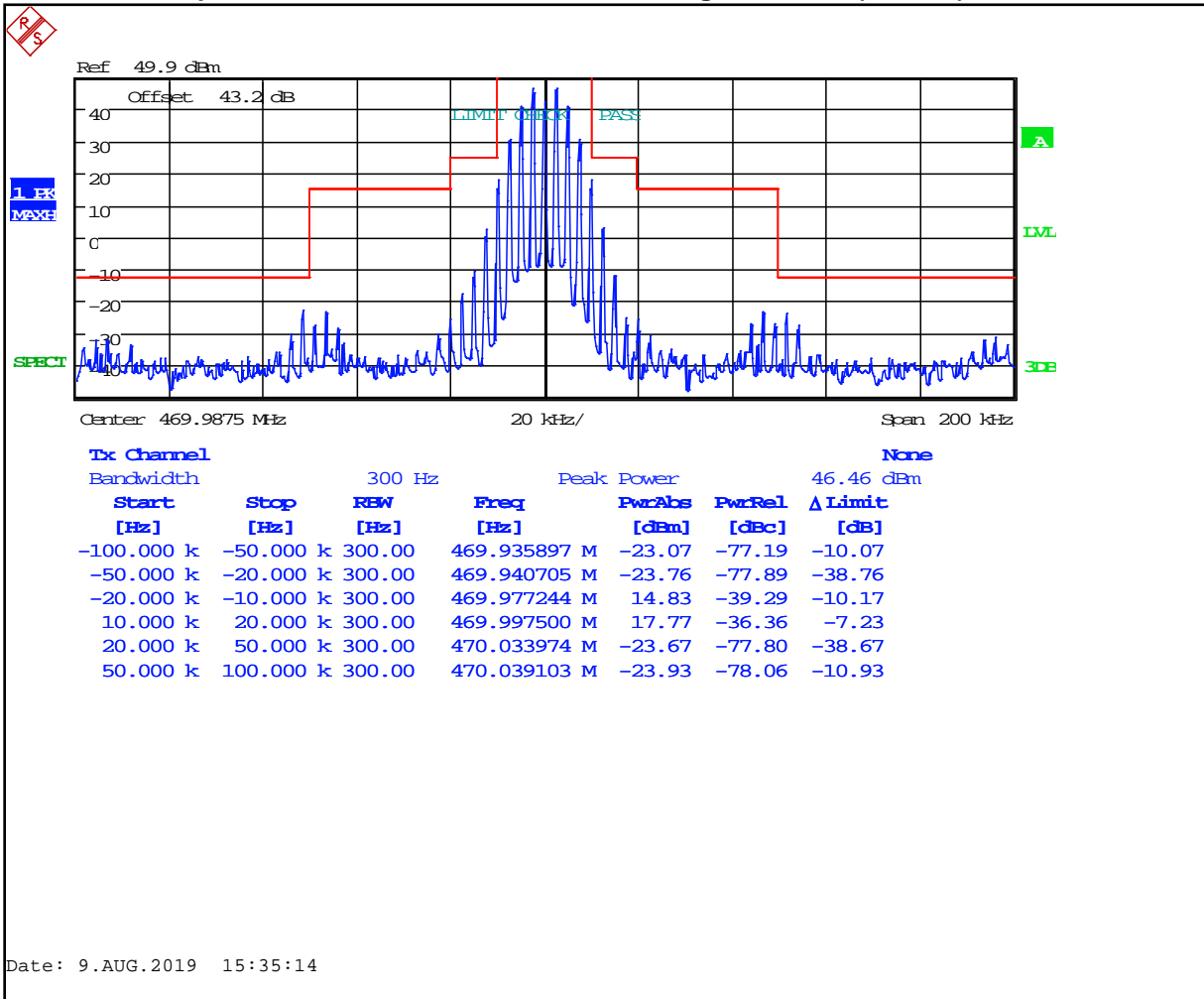
Plot 8-20: Occupied Bandwidth – 453.9875 MHz – Analog Wideband (Mask B)



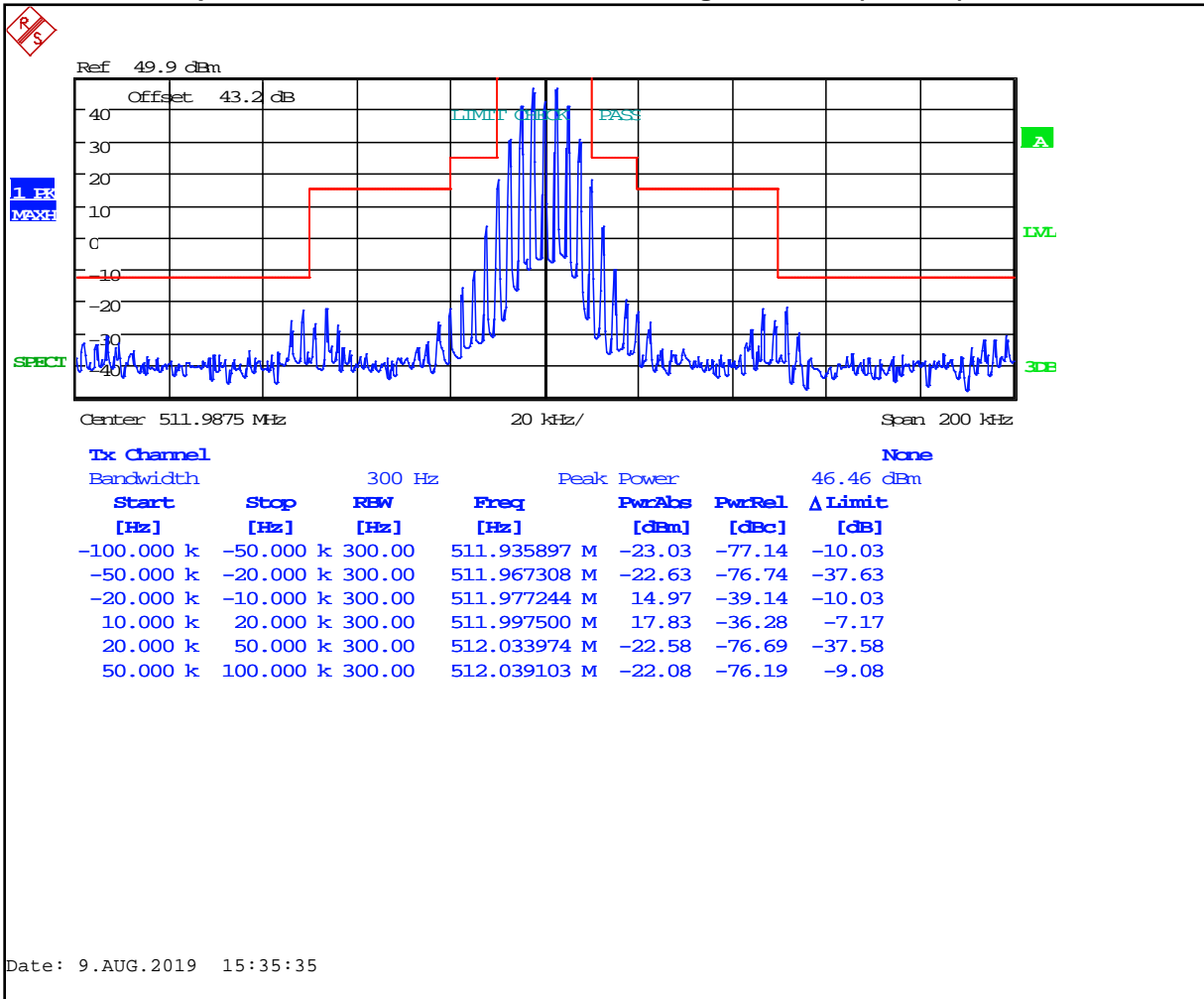
Plot 8-21: Occupied Bandwidth – 456.0125 MHz – Analog Wideband (Mask B)



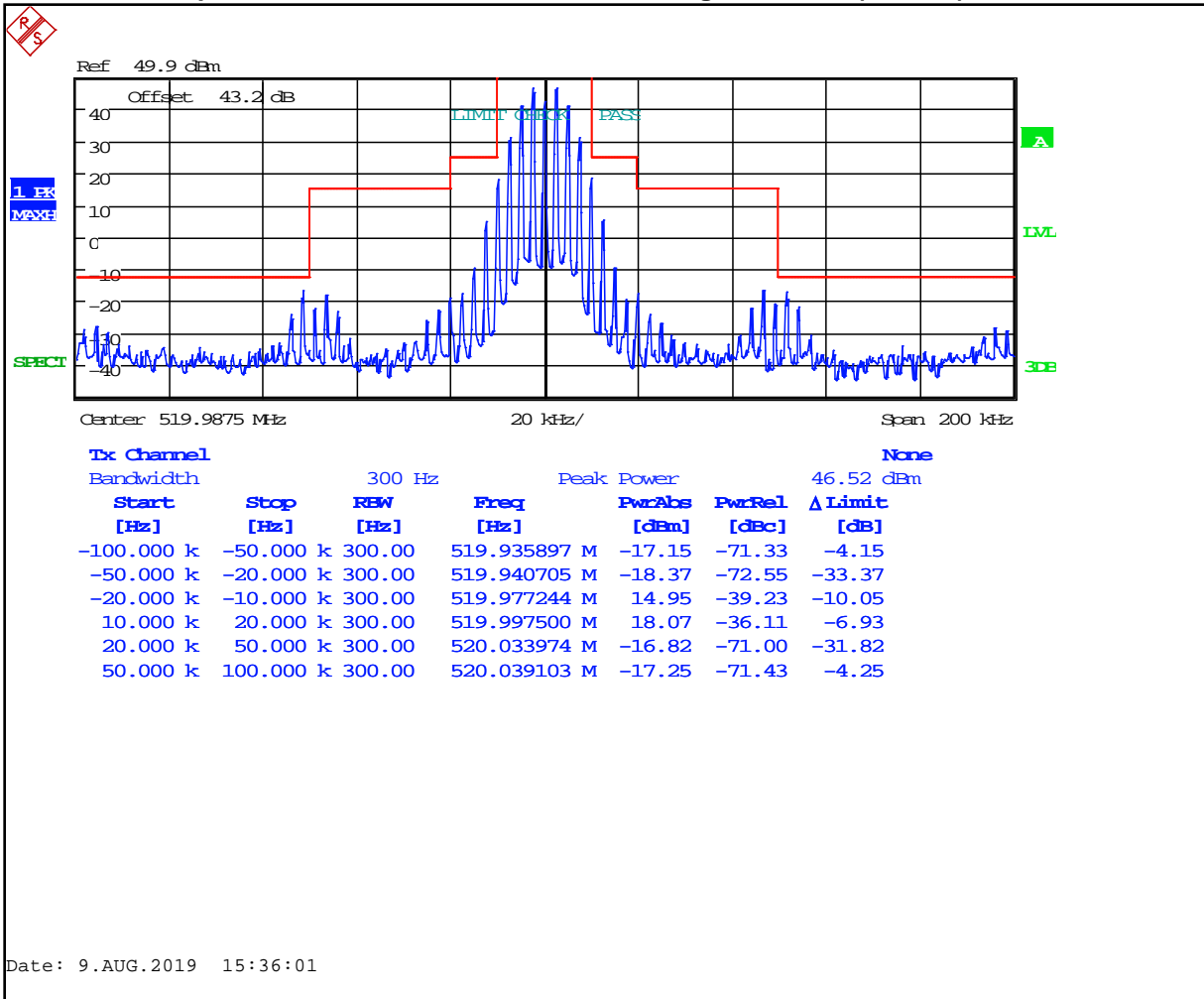
Plot 8-22: Occupied Bandwidth – 469.9875 MHz – Analog Wideband (Mask B)



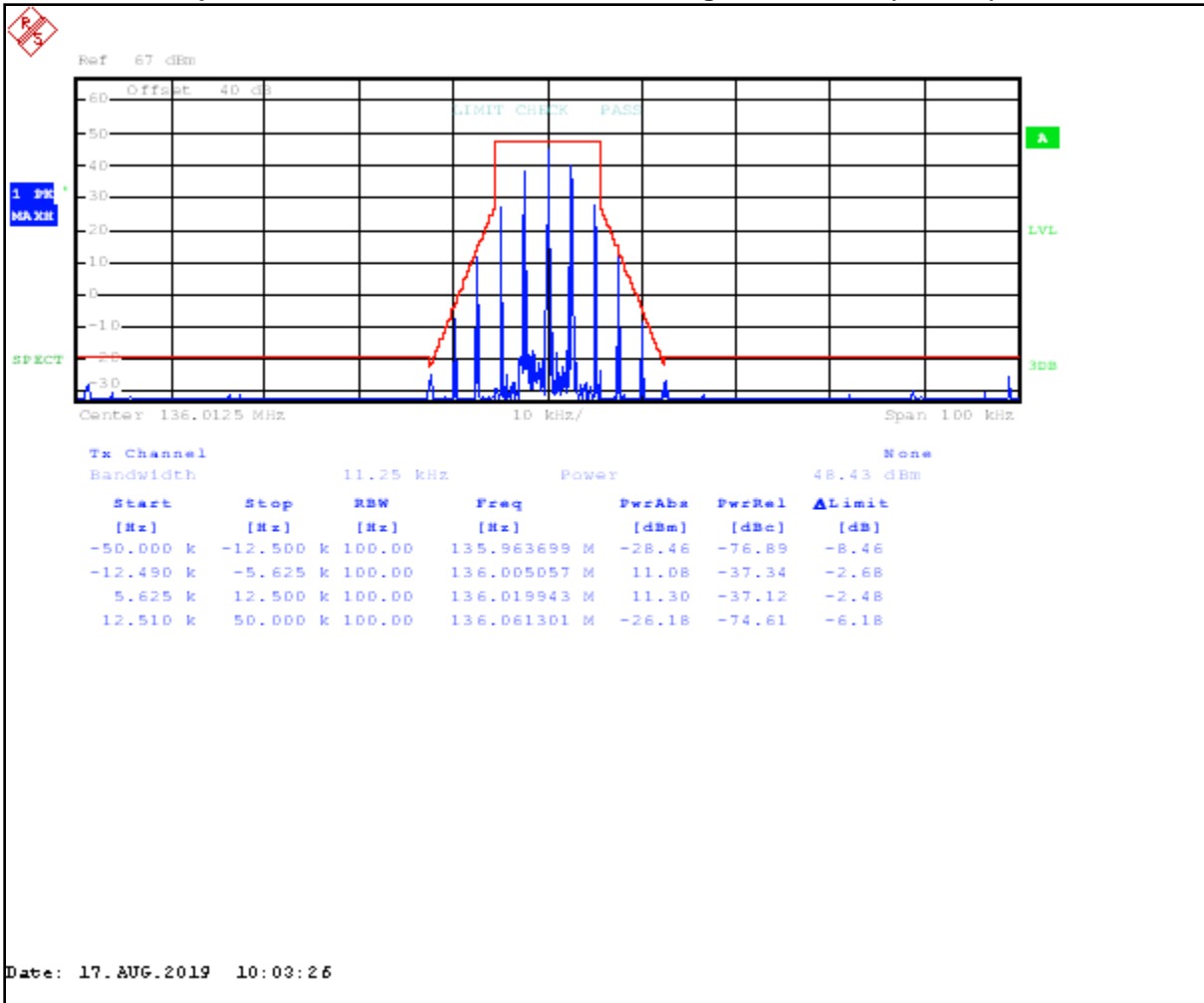
Plot 8-23: Occupied Bandwidth – 511.9875 MHz – Analog Wideband (Mask B)



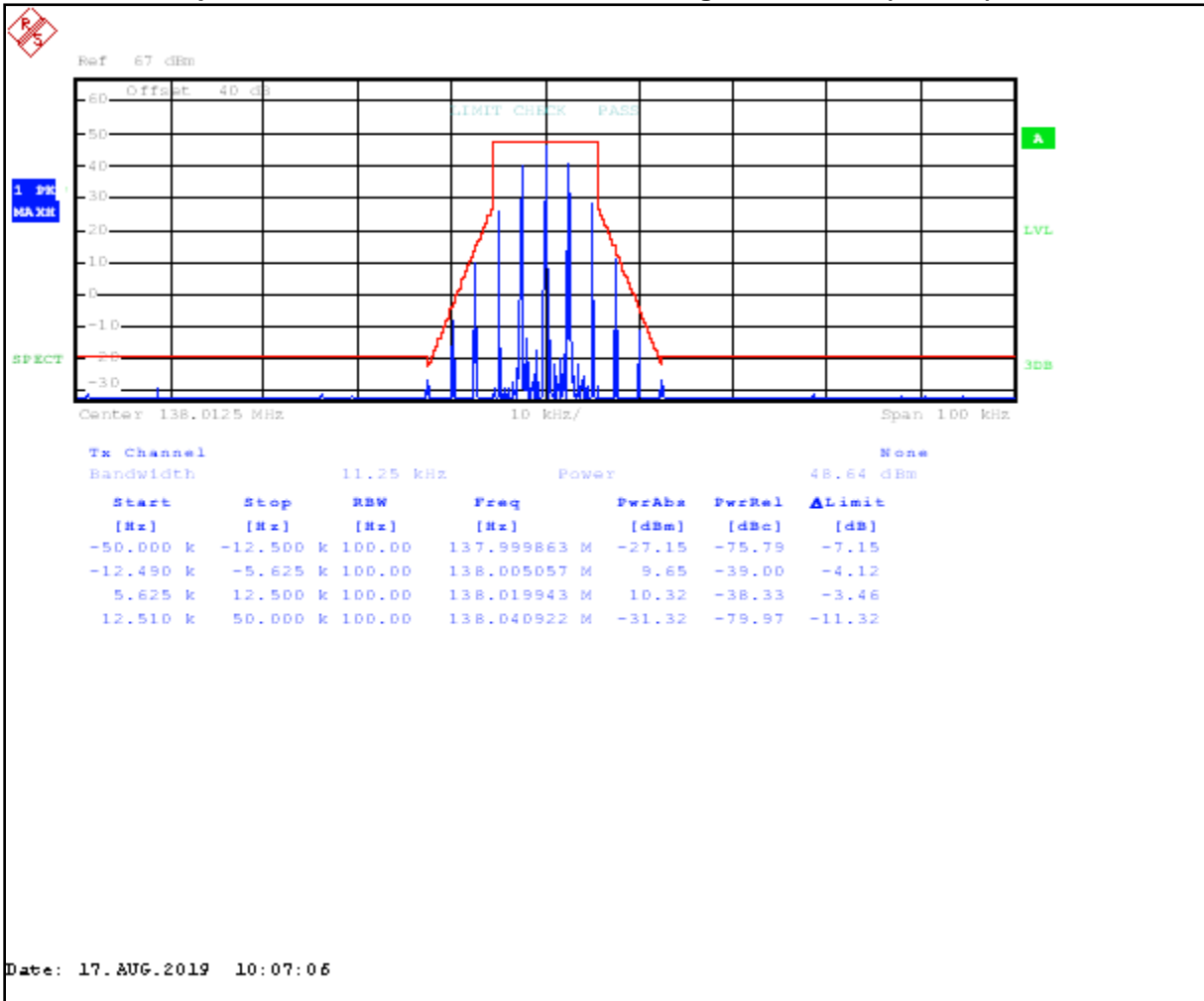
Plot 8-24: Occupied Bandwidth – 519.9875 MHz – Analog Wideband (Mask B)



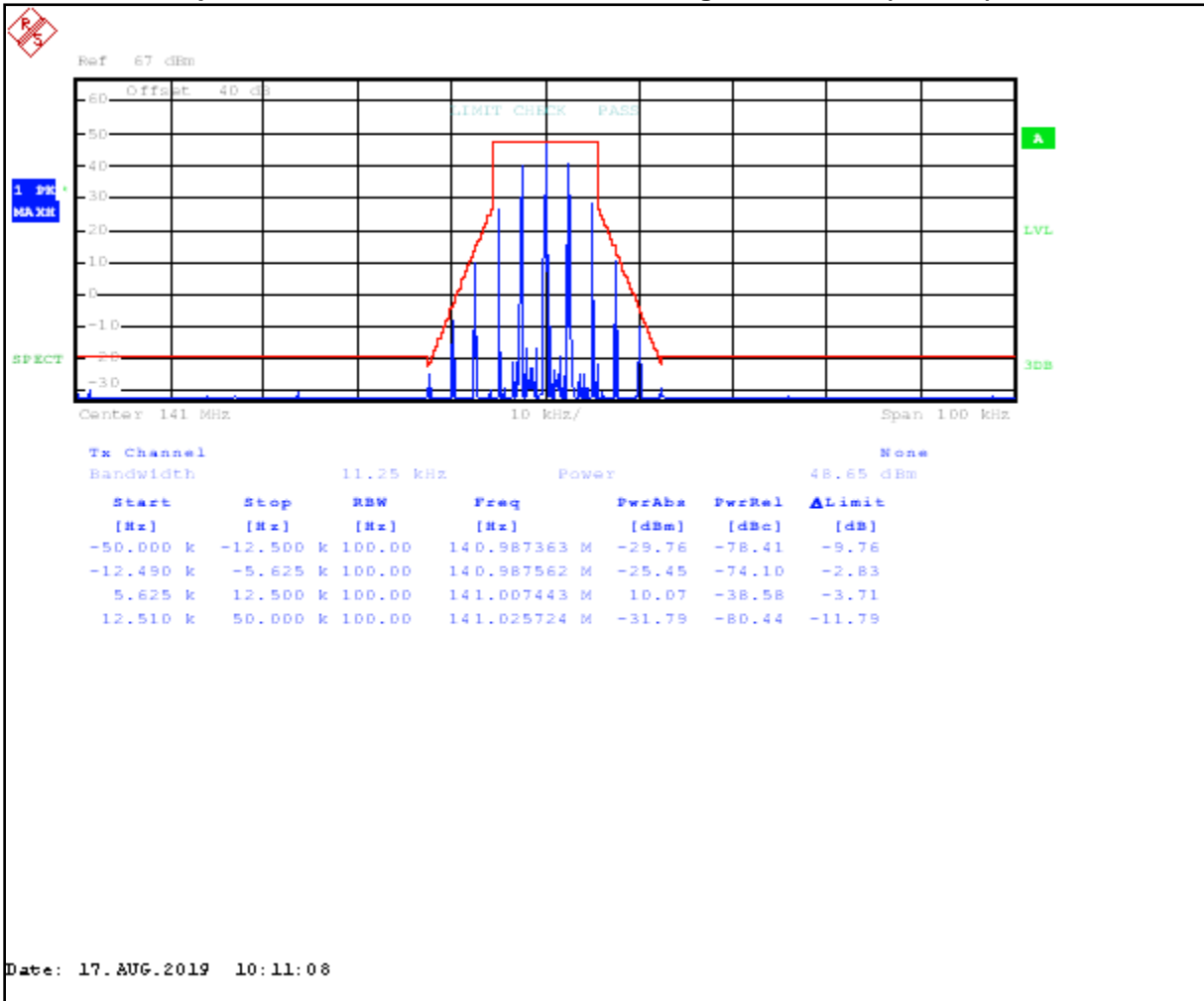
Plot 8-25: Occupied Bandwidth – 136.0125 MHz – Analog Narrowband (Mask D)



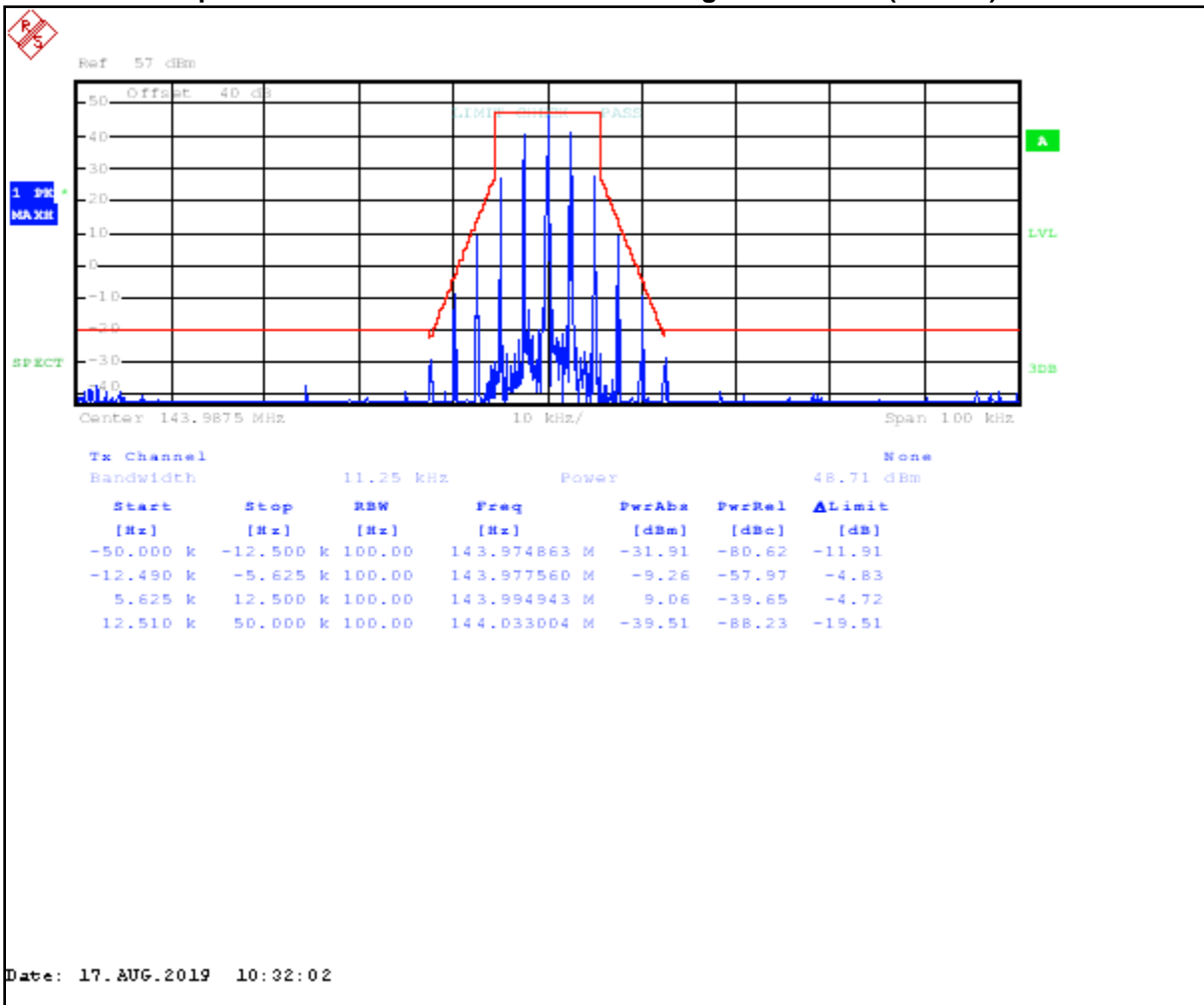
Plot 8-26: Occupied Bandwidth – 138.0125 MHz – Analog Narrowband (Mask D)



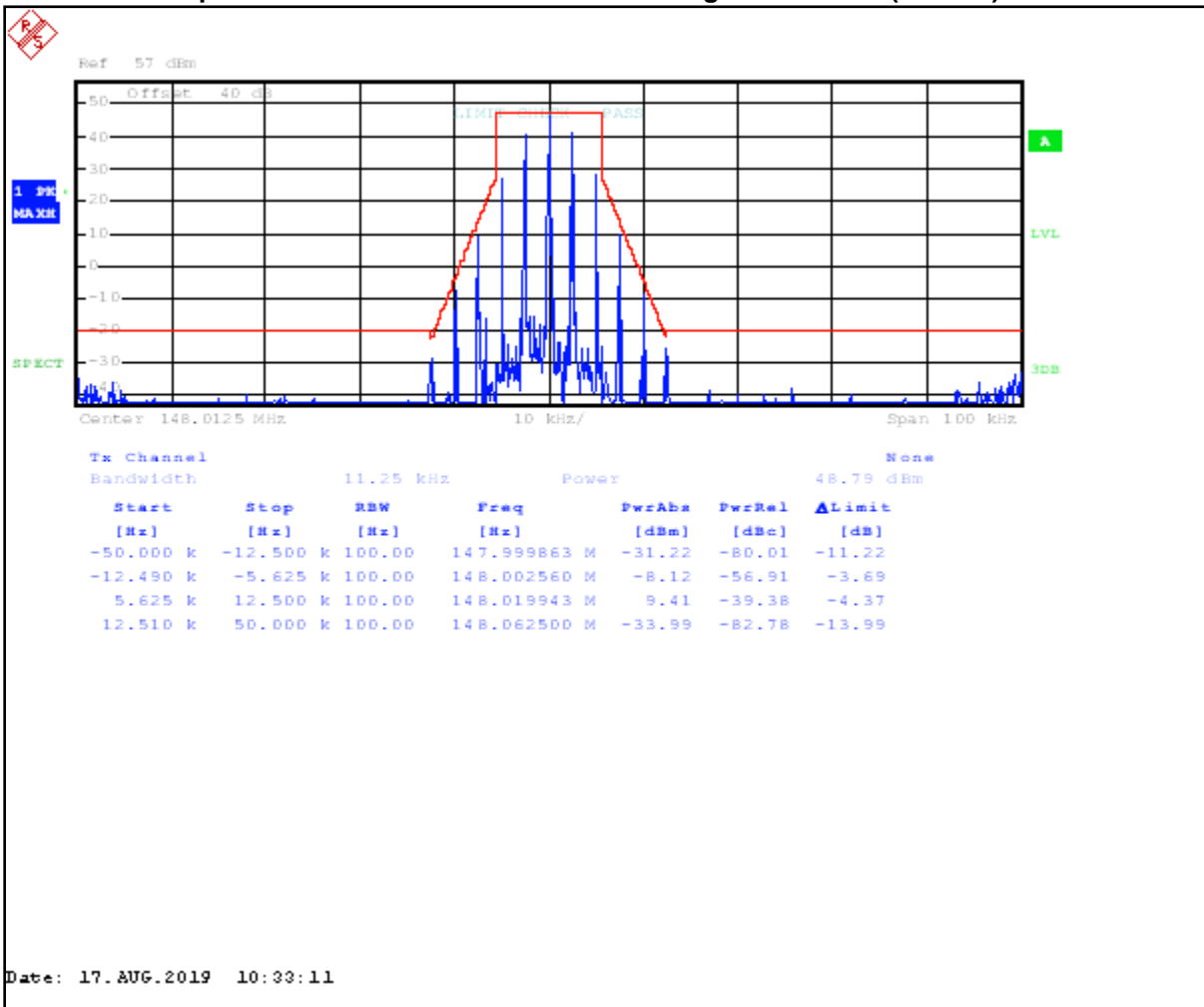
Plot 8-27: Occupied Bandwidth – 141.0000 MHz – Analog Narrowband (Mask D)



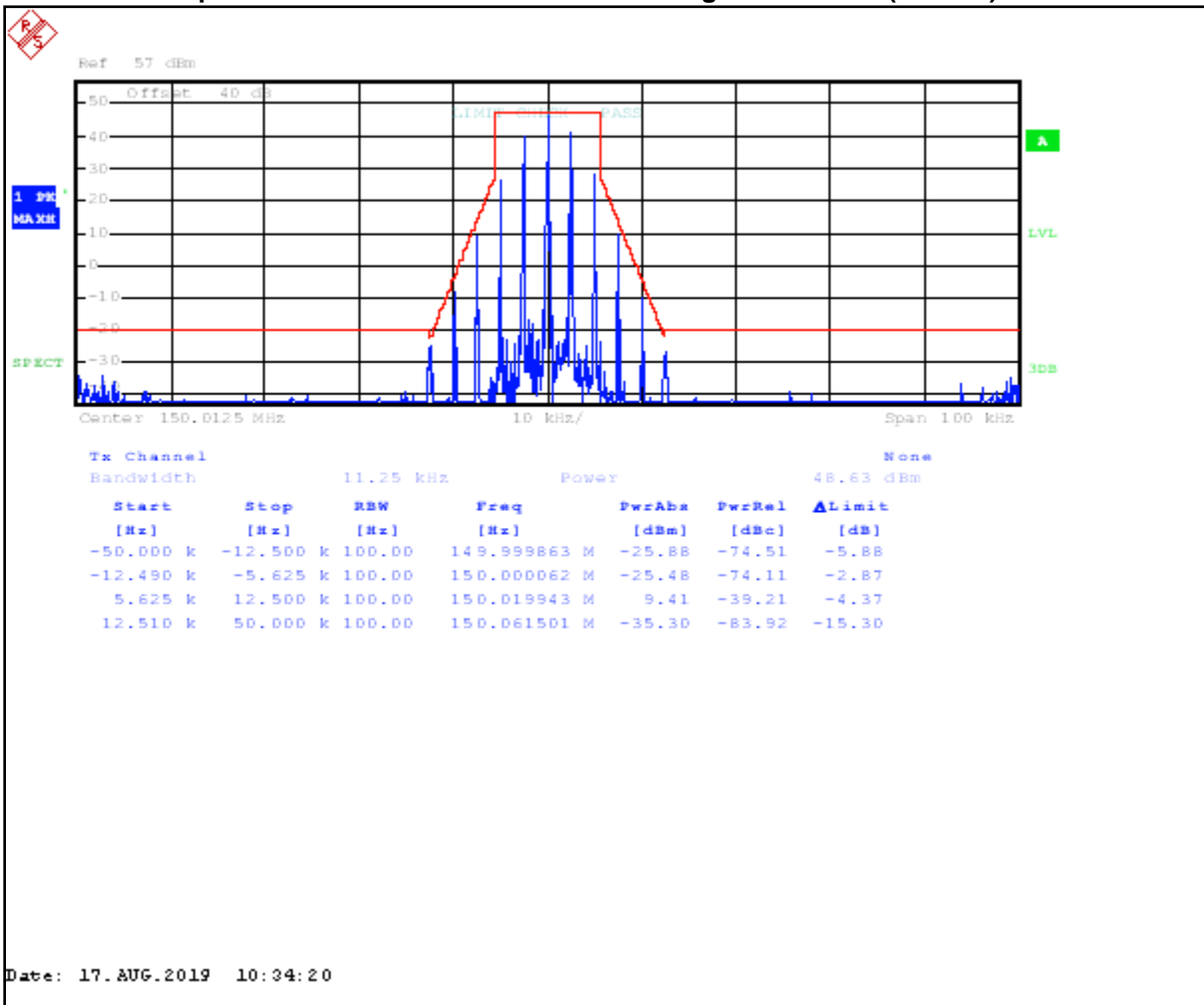
Plot 8-28: Occupied Bandwidth – 143.9875 MHz – Analog Narrowband (Mask D)



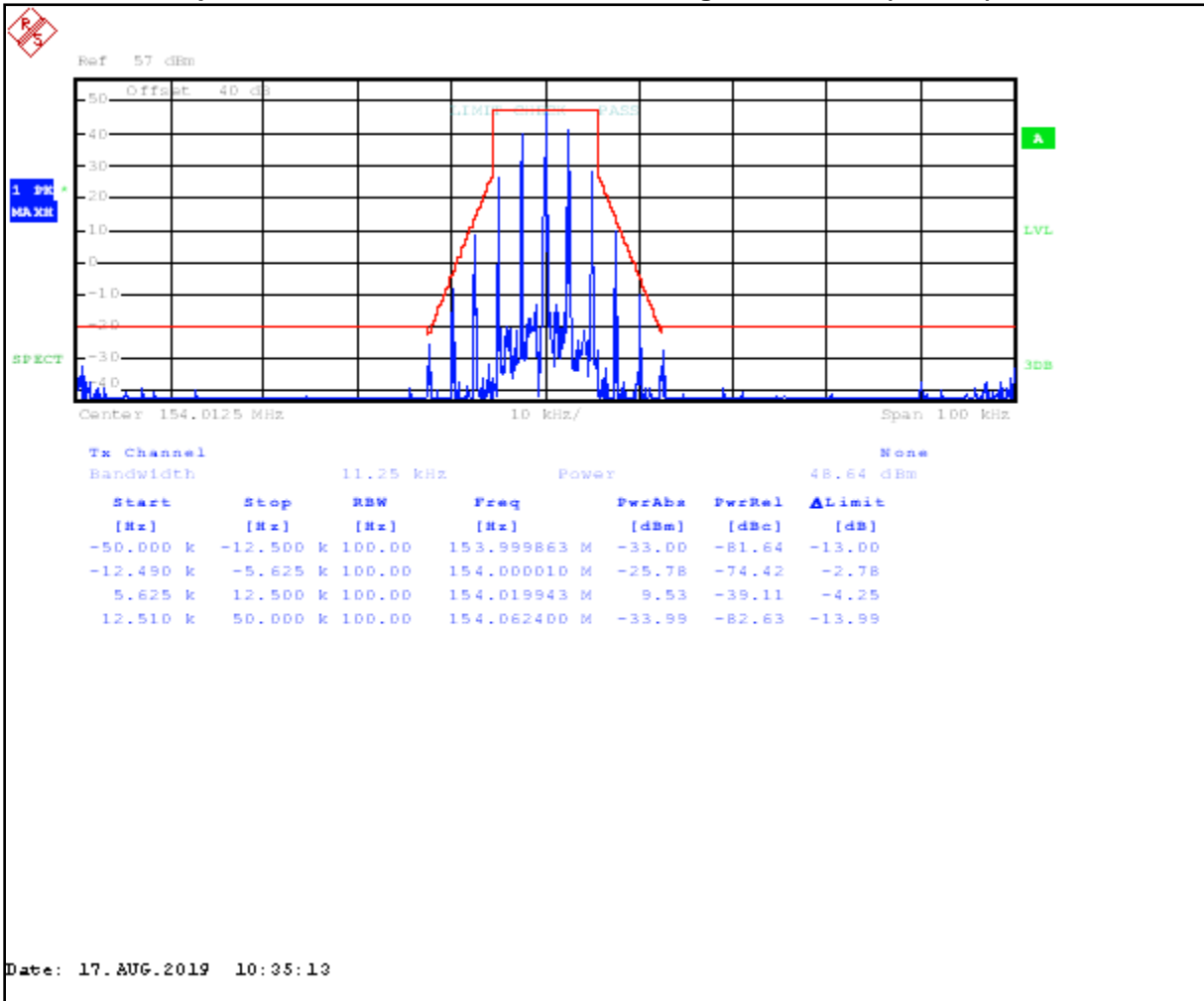
Plot 8-29: Occupied Bandwidth – 148.0125 MHz – Analog Narrowband (Mask D)



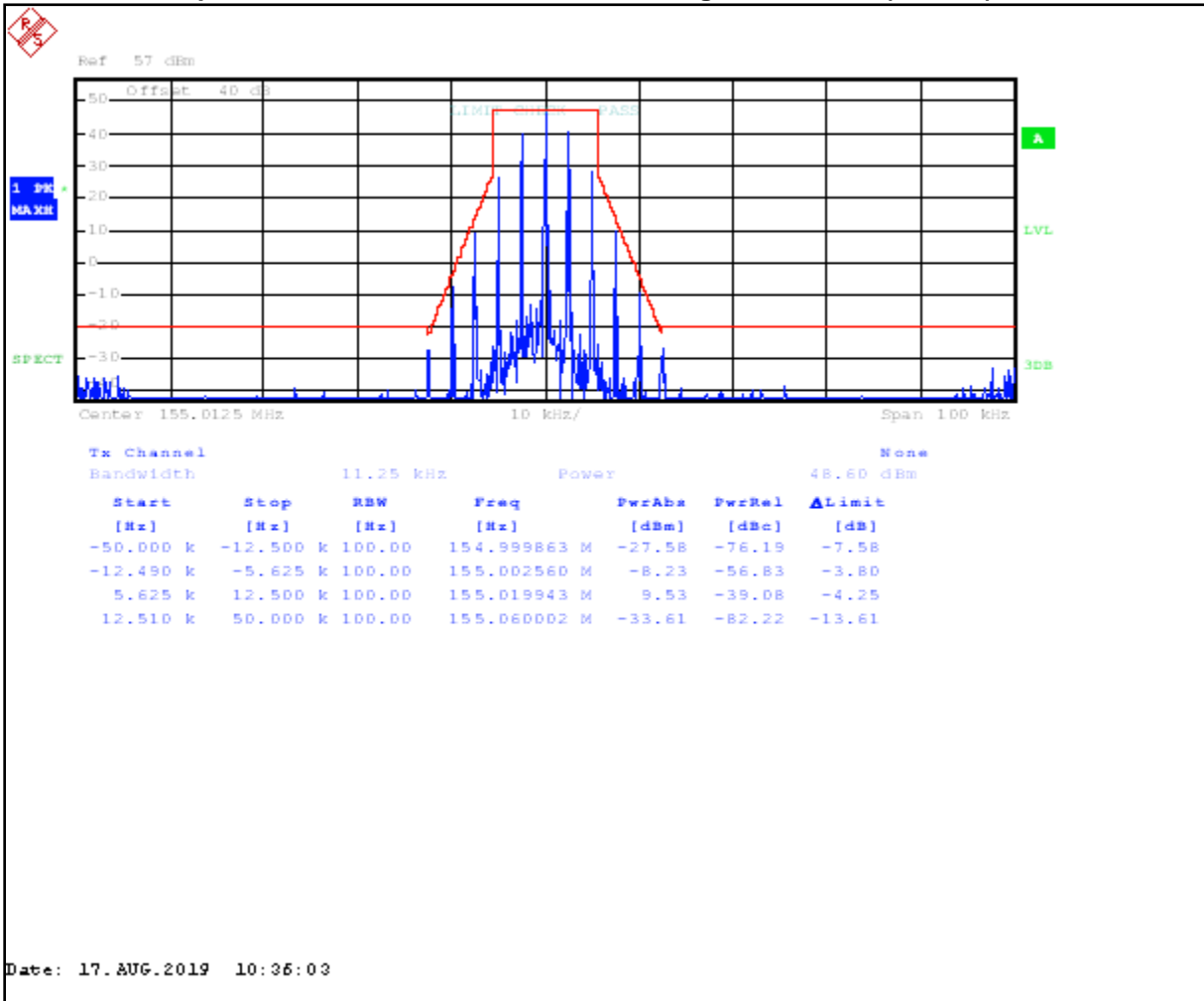
Plot 8-30: Occupied Bandwidth – 150.0125 MHz – Analog Narrowband (Mask D)



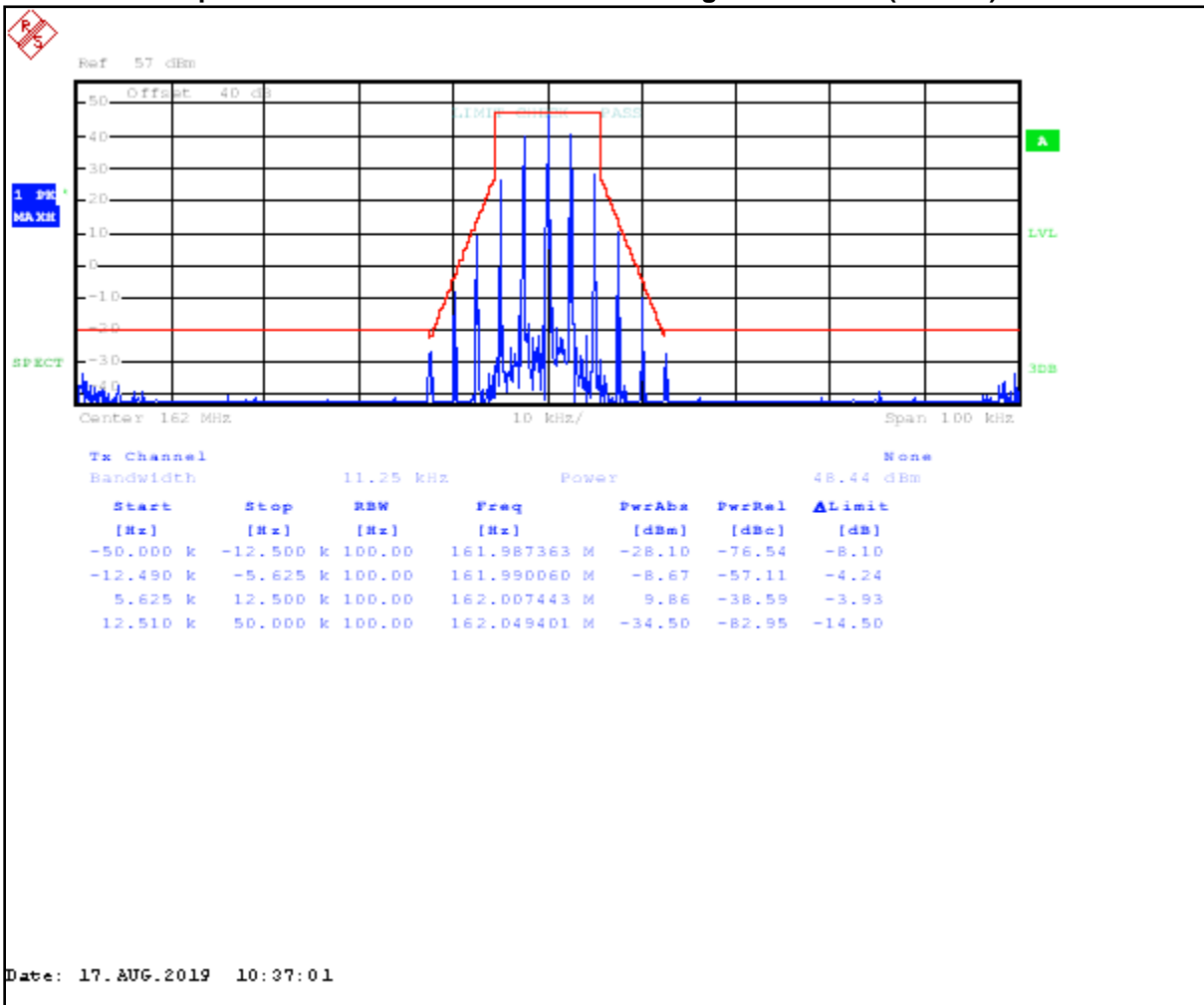
Plot 8-31: Occupied Bandwidth – 154.0125 MHz – Analog Narrowband (Mask D)



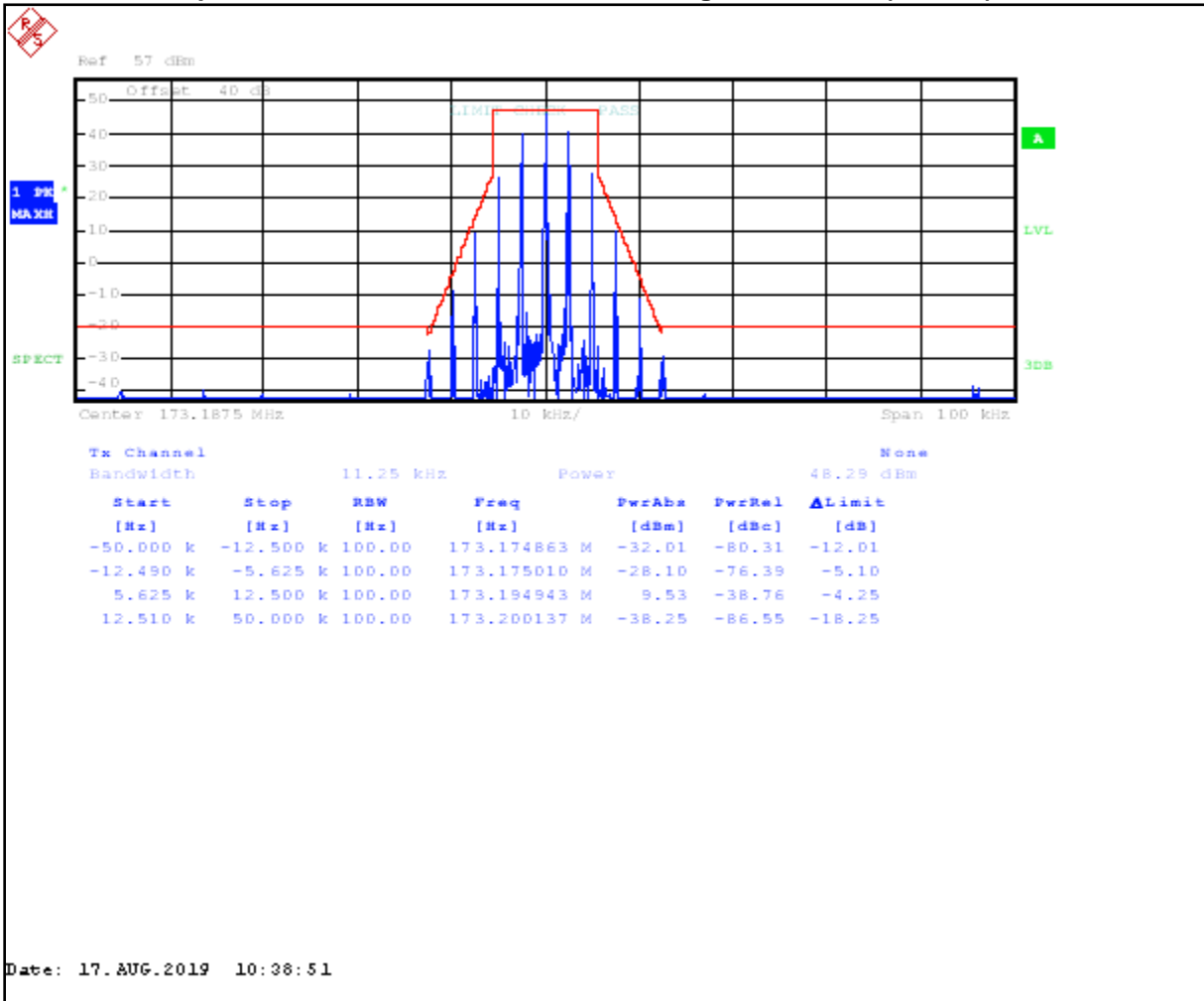
Plot 8-32: Occupied Bandwidth – 155.0125 MHz – Analog Narrowband (Mask D)



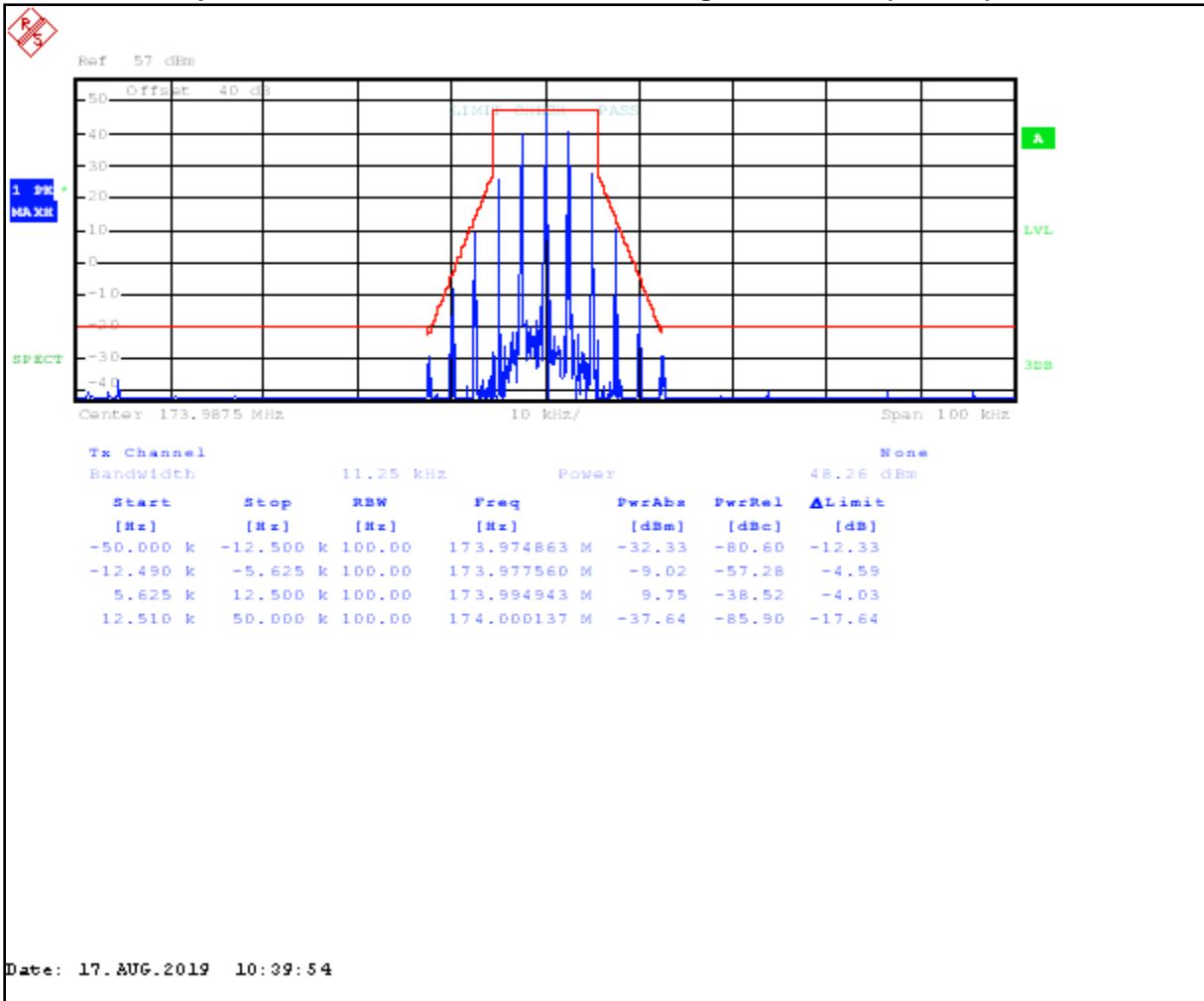
Plot 8-33: Occupied Bandwidth – 162.000 MHz – Analog Narrowband (Mask D)



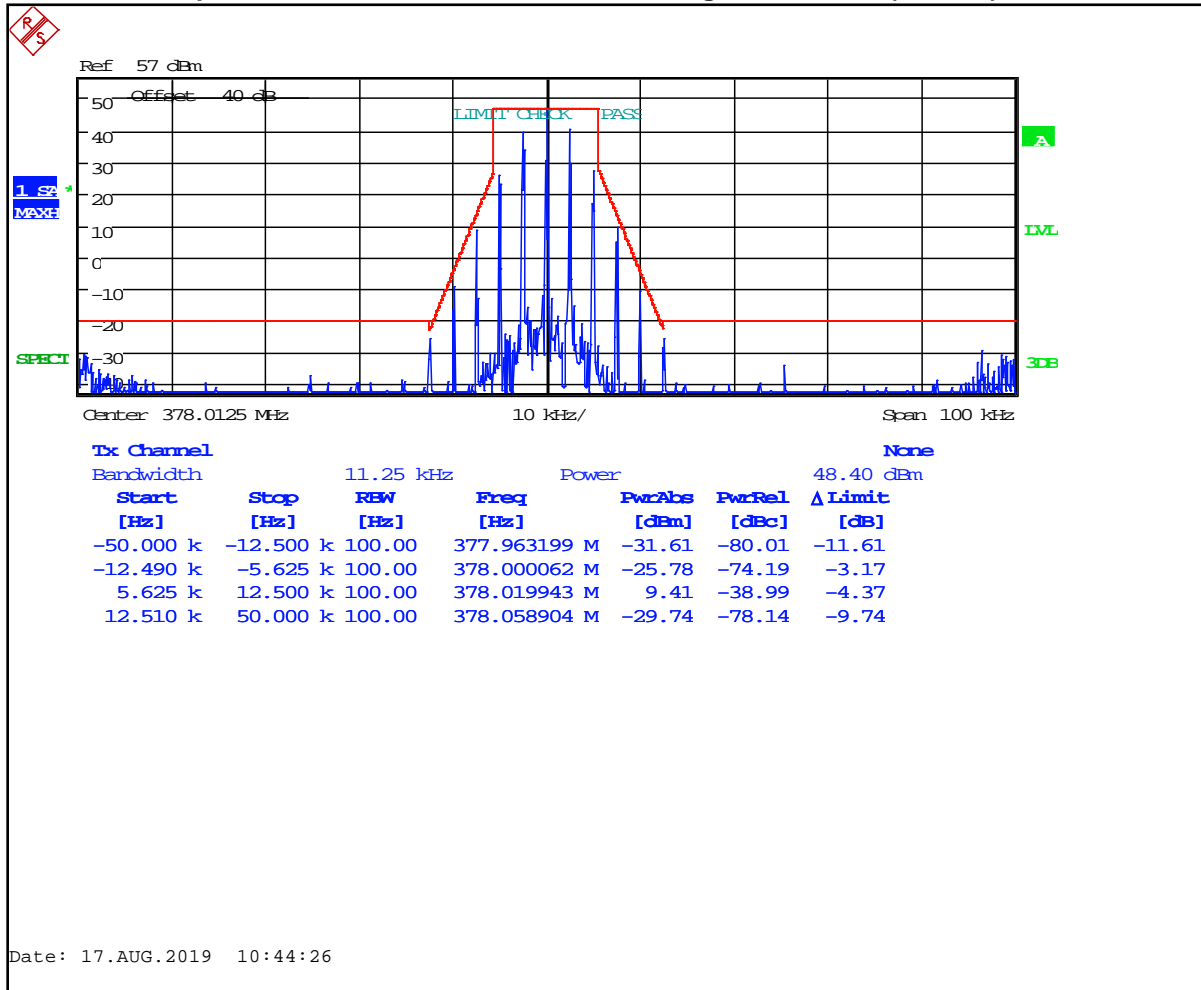
Plot 8-34: Occupied Bandwidth – 173.1875 MHz – Analog Narrowband (Mask D)



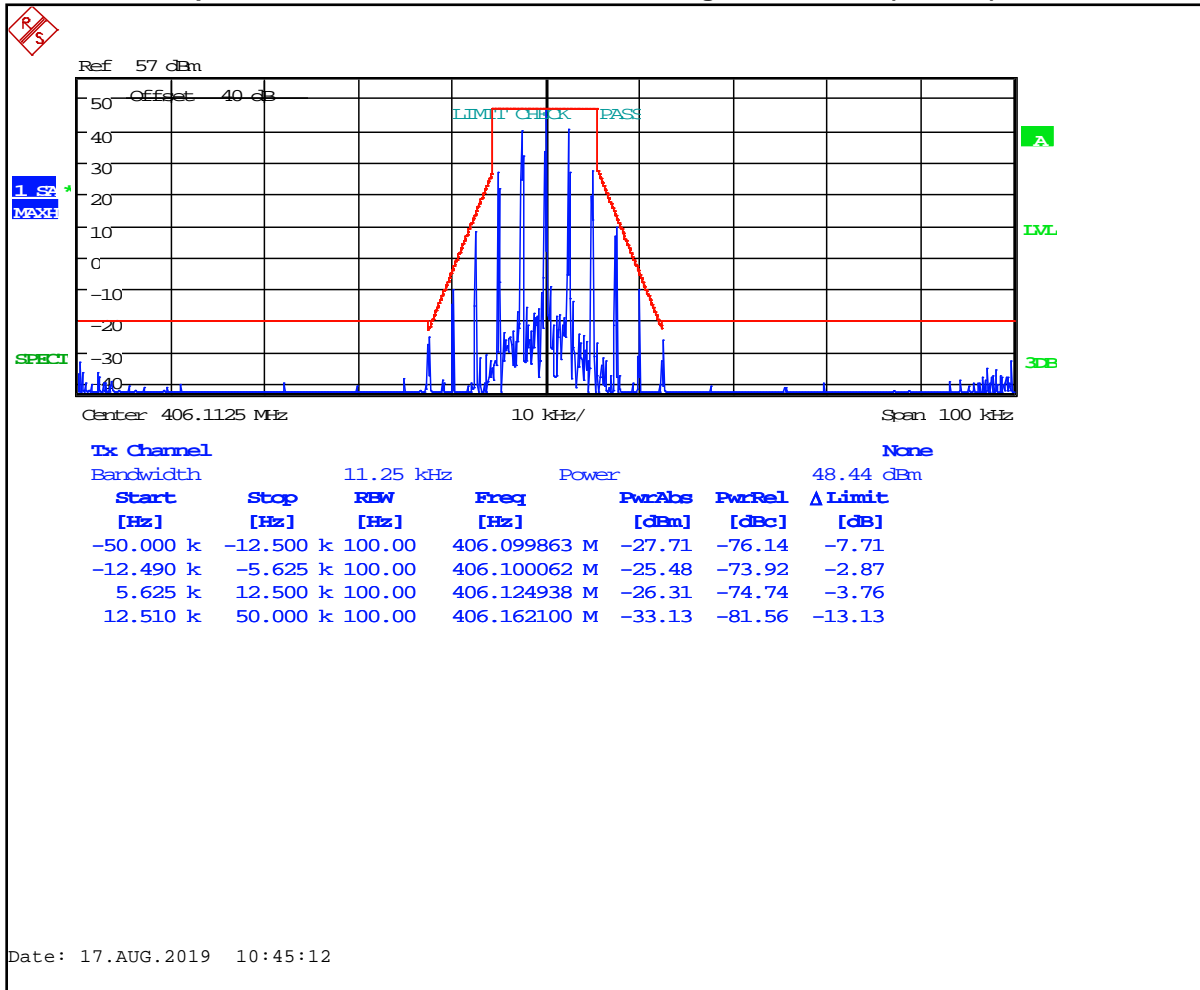
Plot 8-35: Occupied Bandwidth – 173.9875 MHz – Analog Narrowband (Mask D)



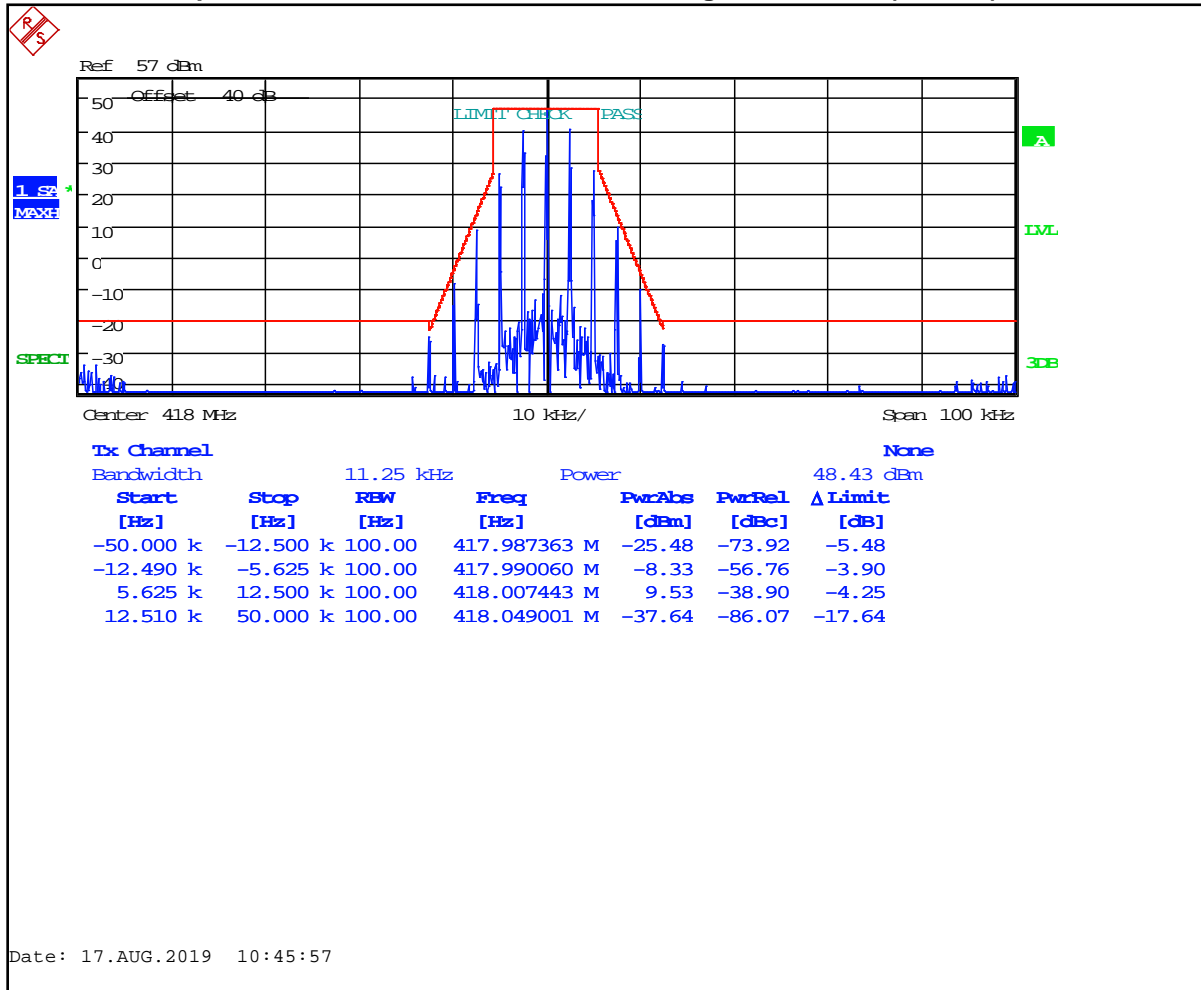
Plot 8-36: Occupied Bandwidth – 378.0125 MHz – Analog Narrowband (Mask D)



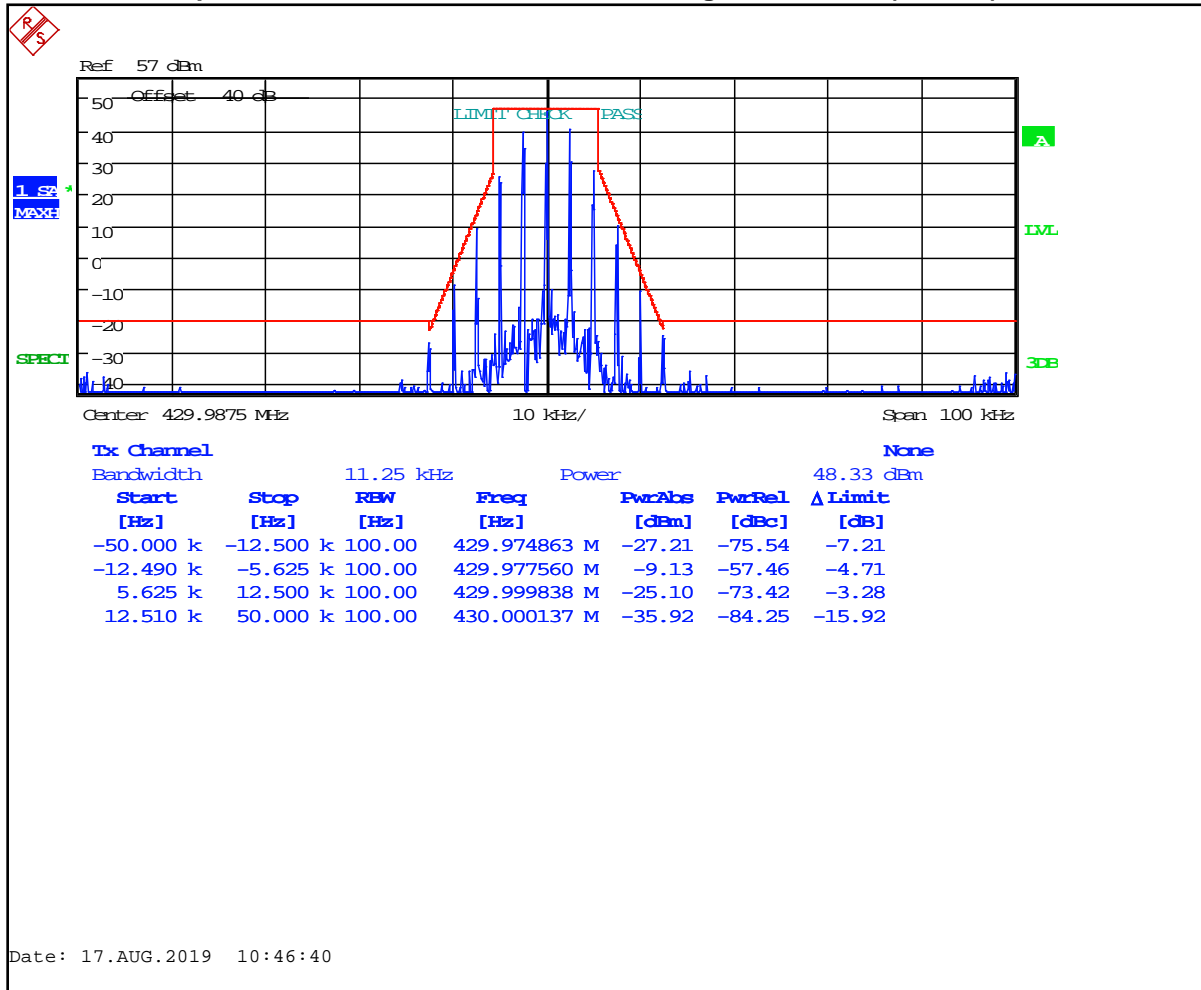
Plot 8-37: Occupied Bandwidth – 406.1125 MHz – Analog Narrowband (Mask D)



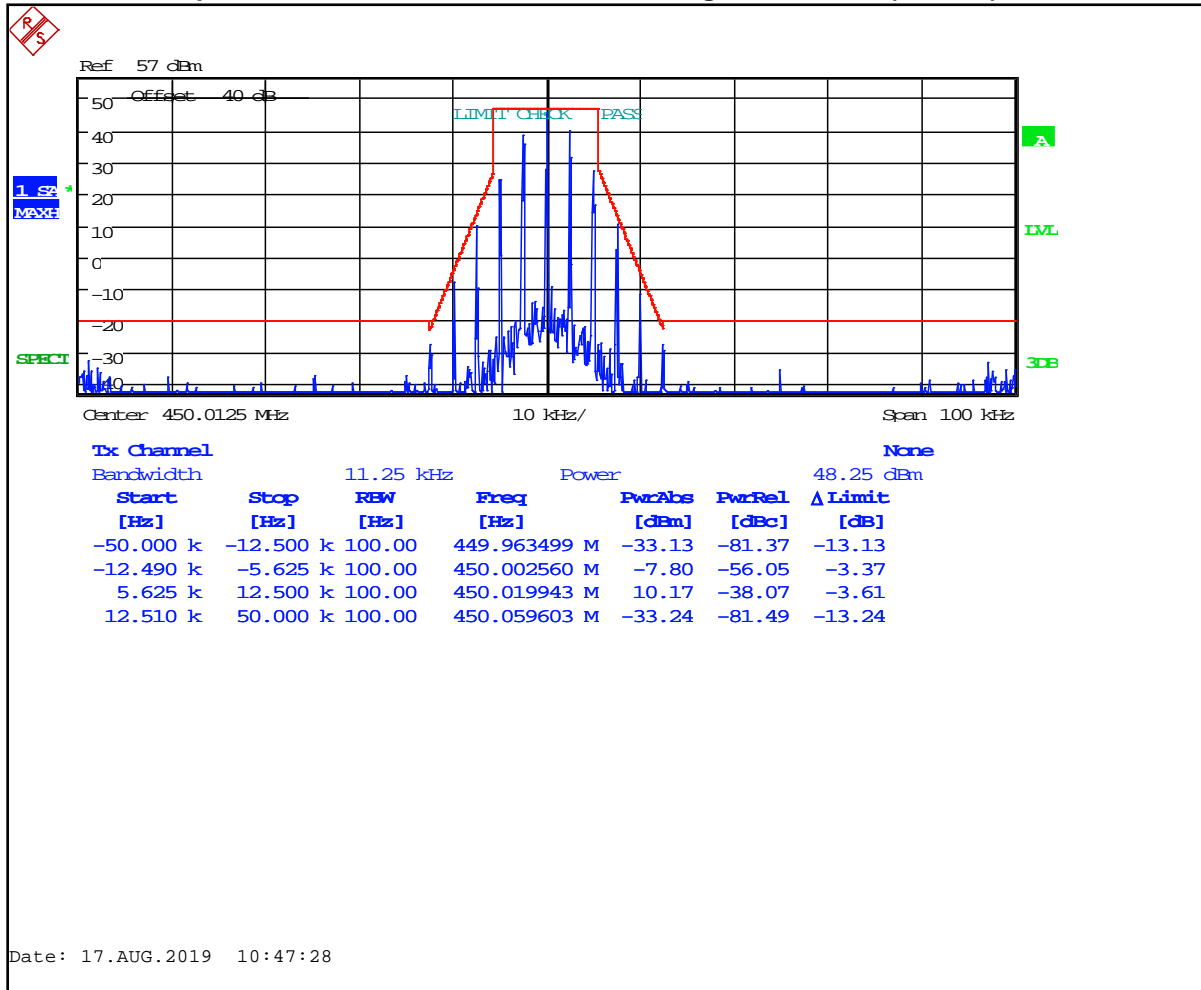
Plot 8-38: Occupied Bandwidth – 418.0000 MHz – Analog Narrowband (Mask D)



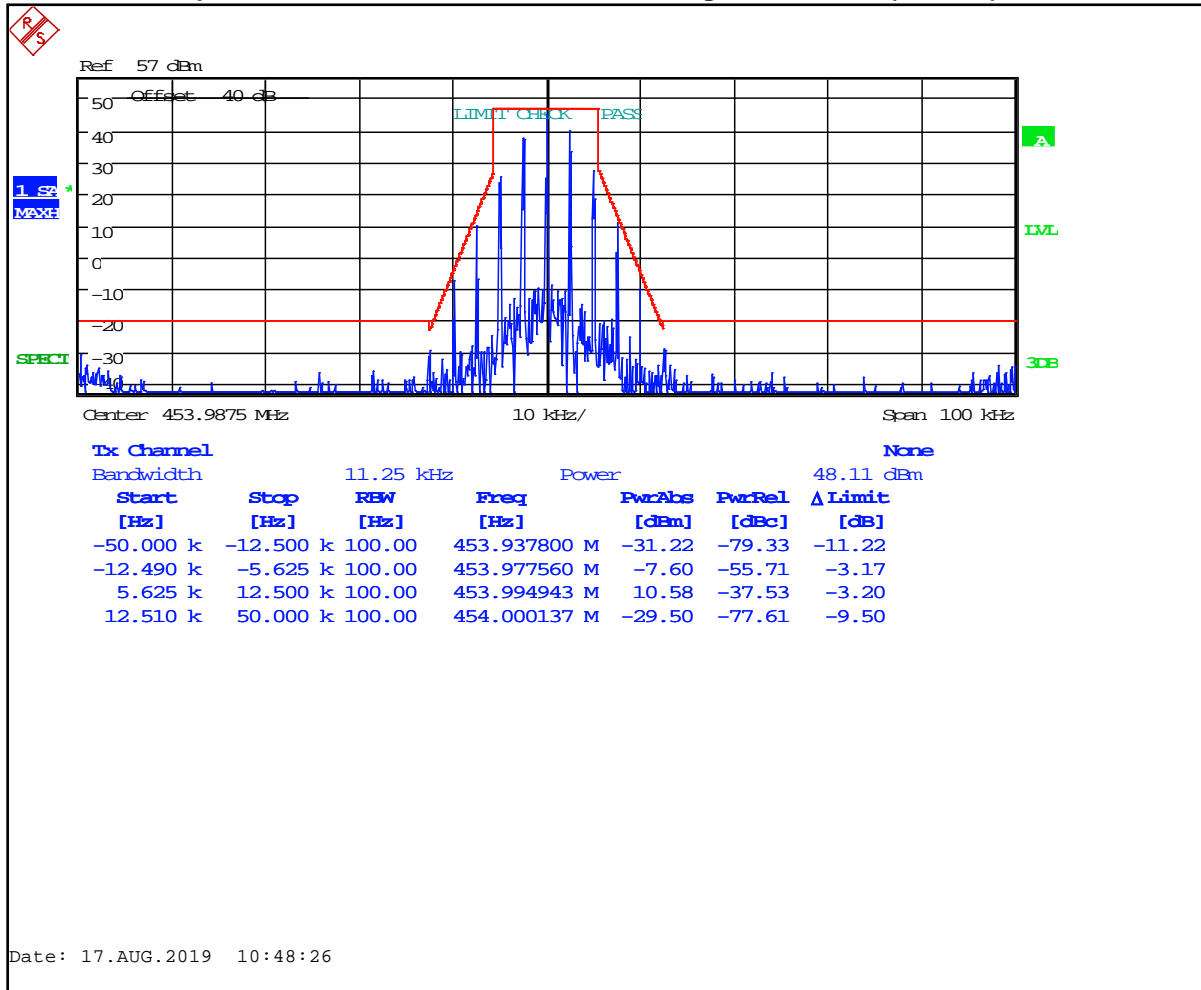
Plot 8-39: Occupied Bandwidth – 429.9875 MHz – Analog Narrowband (Mask D)



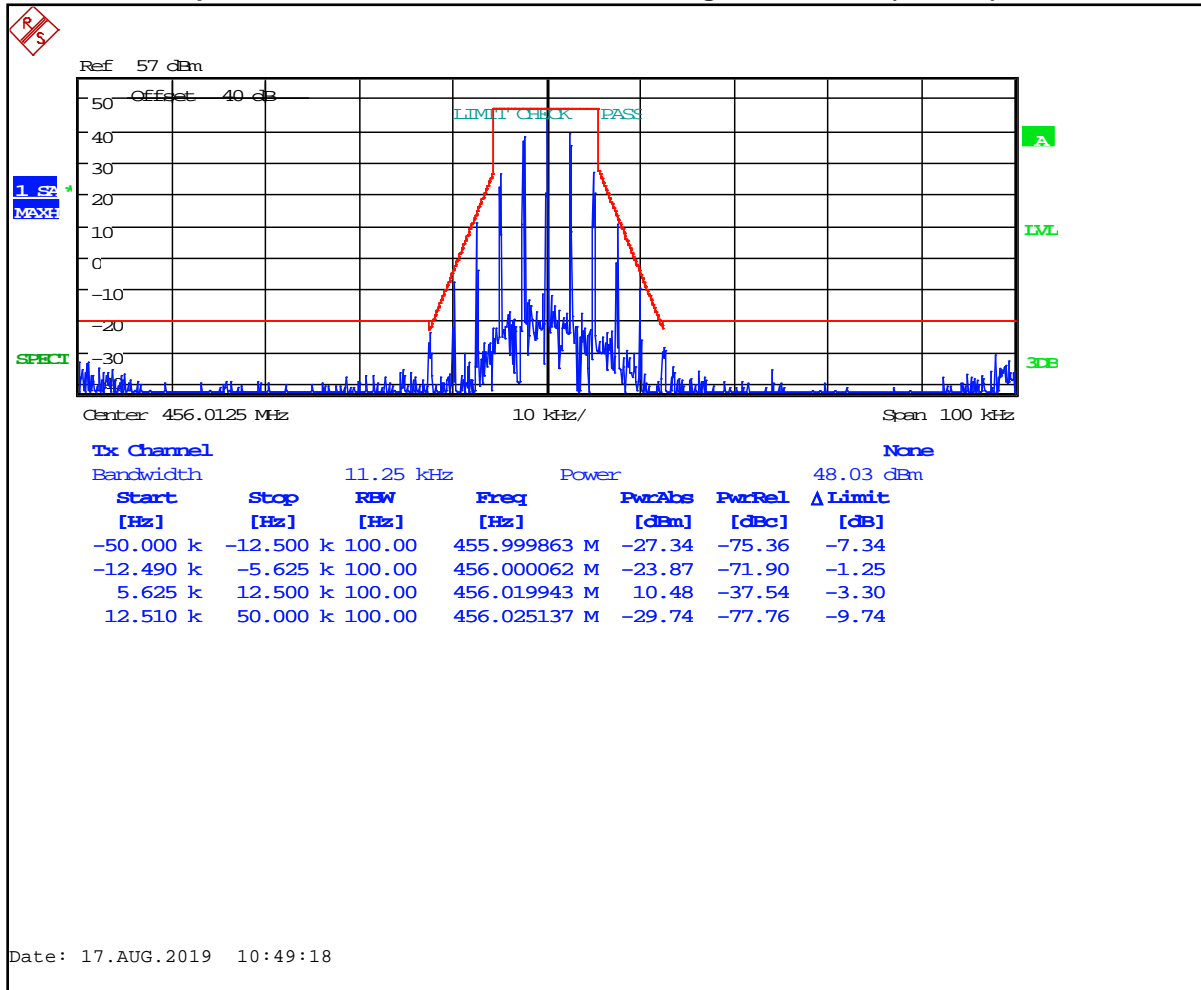
Plot 8-40: Occupied Bandwidth – 450.0125 MHz – Analog Narrowband (Mask D)



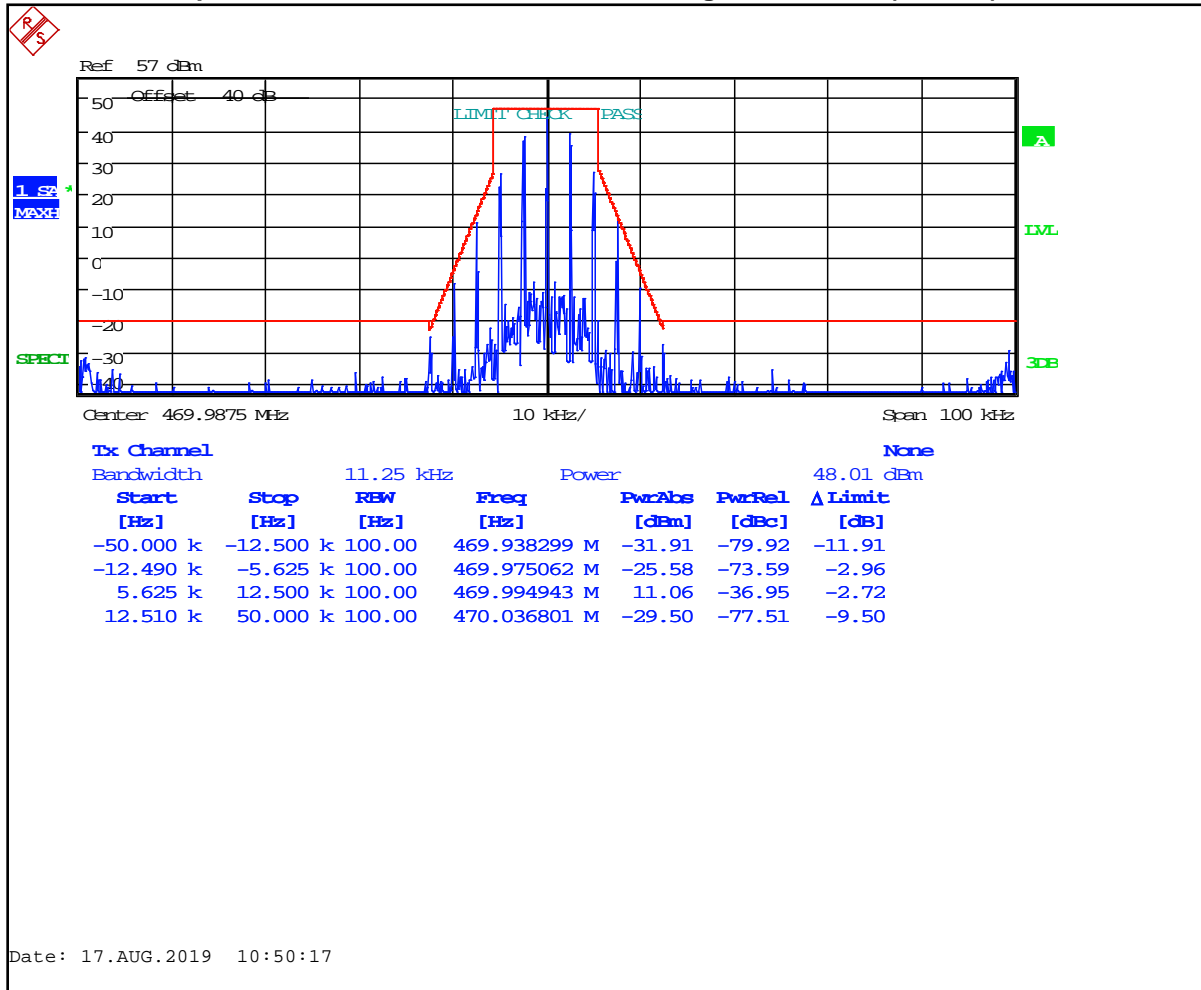
Plot 8-41: Occupied Bandwidth – 453.9875 MHz – Analog Narrowband (Mask D)



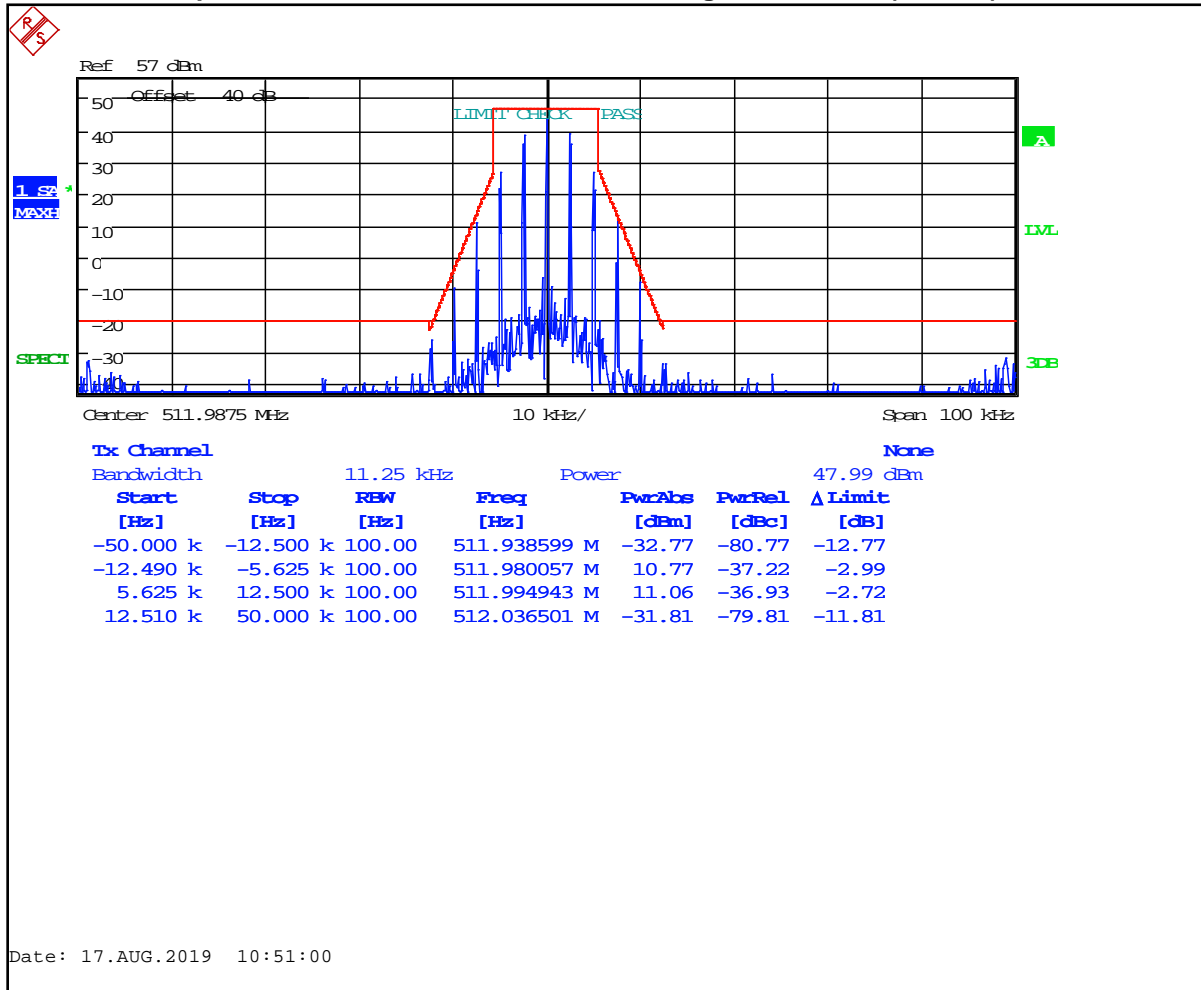
Plot 8-42: Occupied Bandwidth – 456.0125 MHz – Analog Narrowband (Mask D)



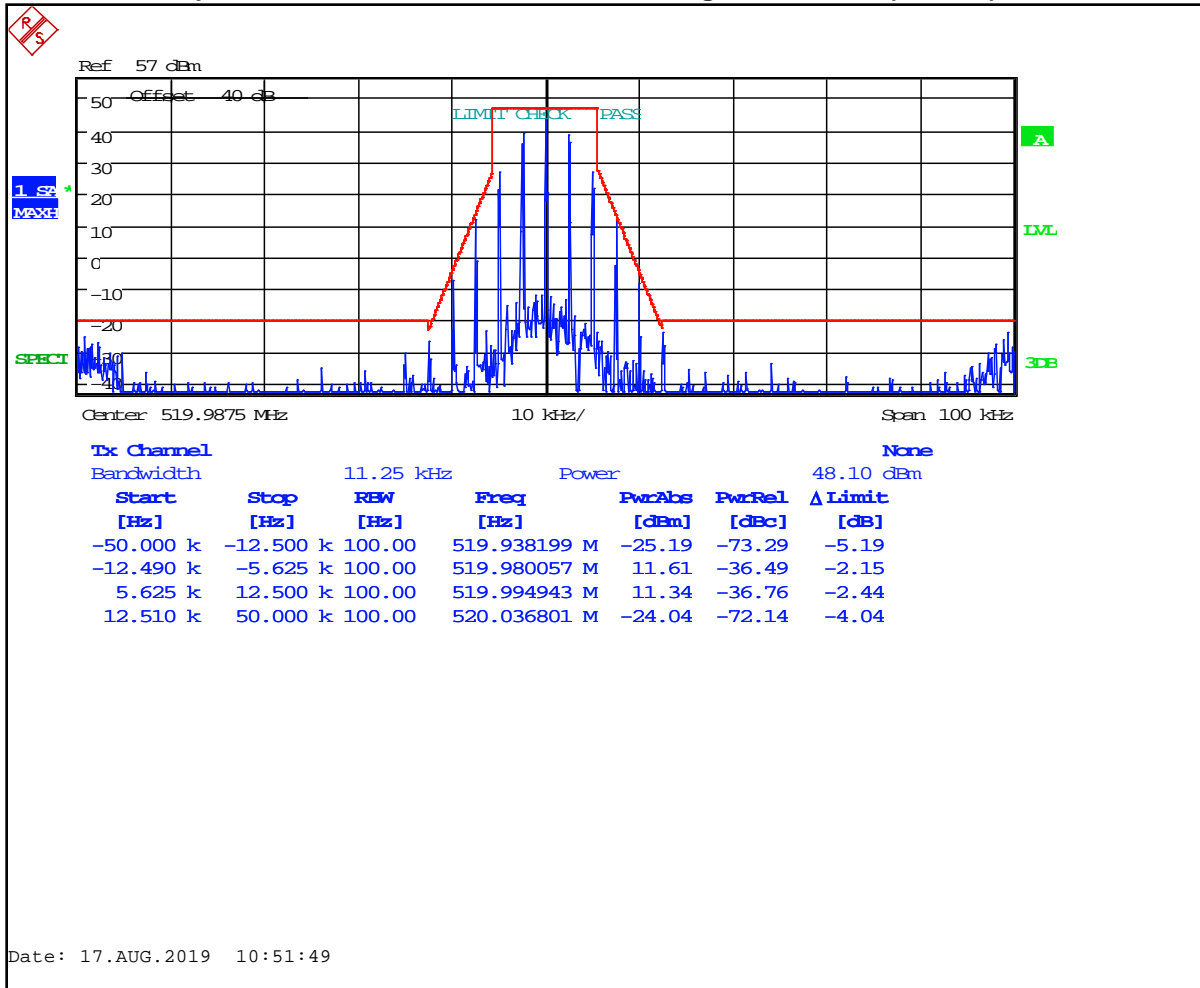
Plot 8-43: Occupied Bandwidth – 469.9875 MHz – Analog Narrowband (Mask D)



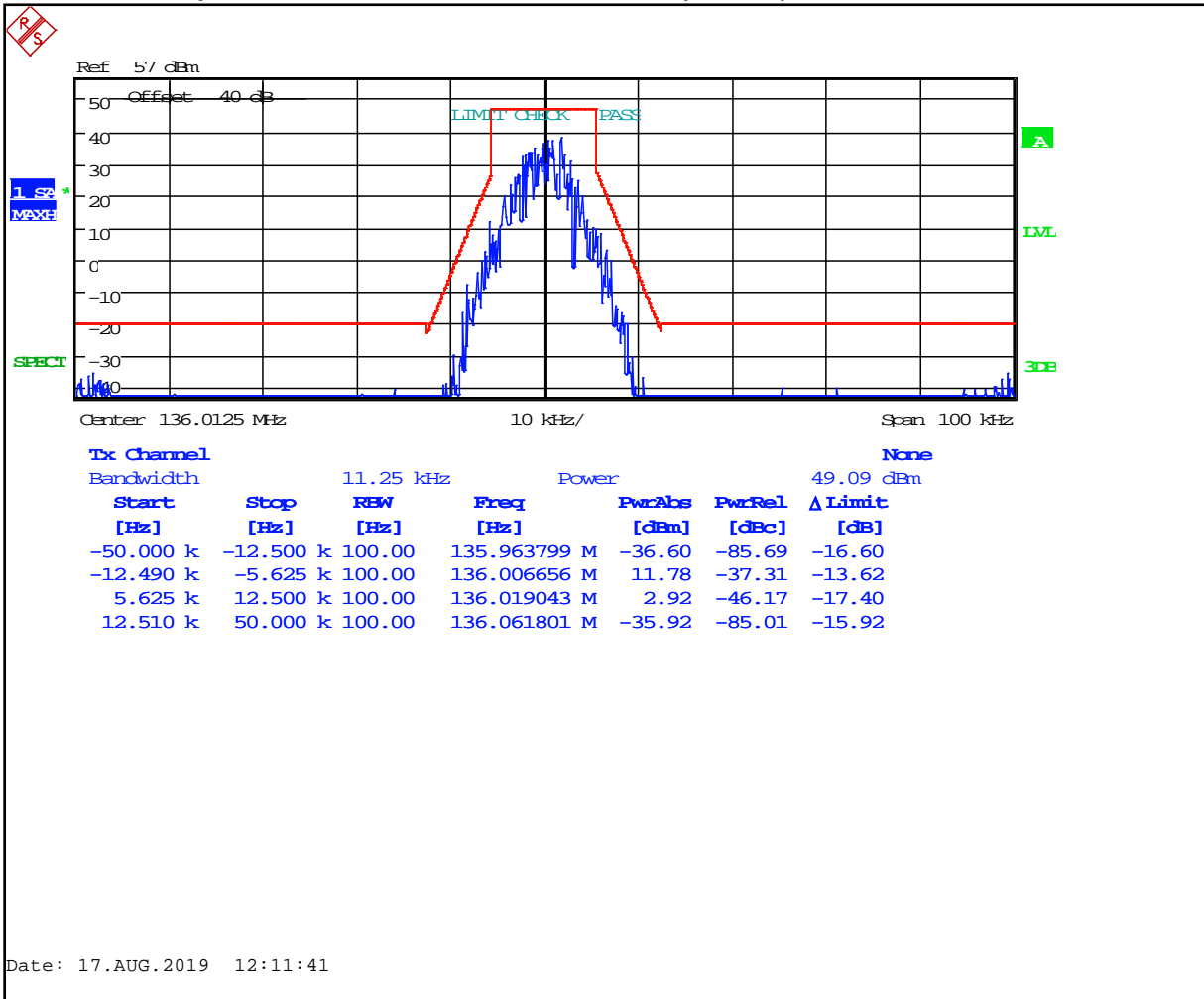
Plot 8-44: Occupied Bandwidth – 511.9875 MHz – Analog Narrowband (Mask D)



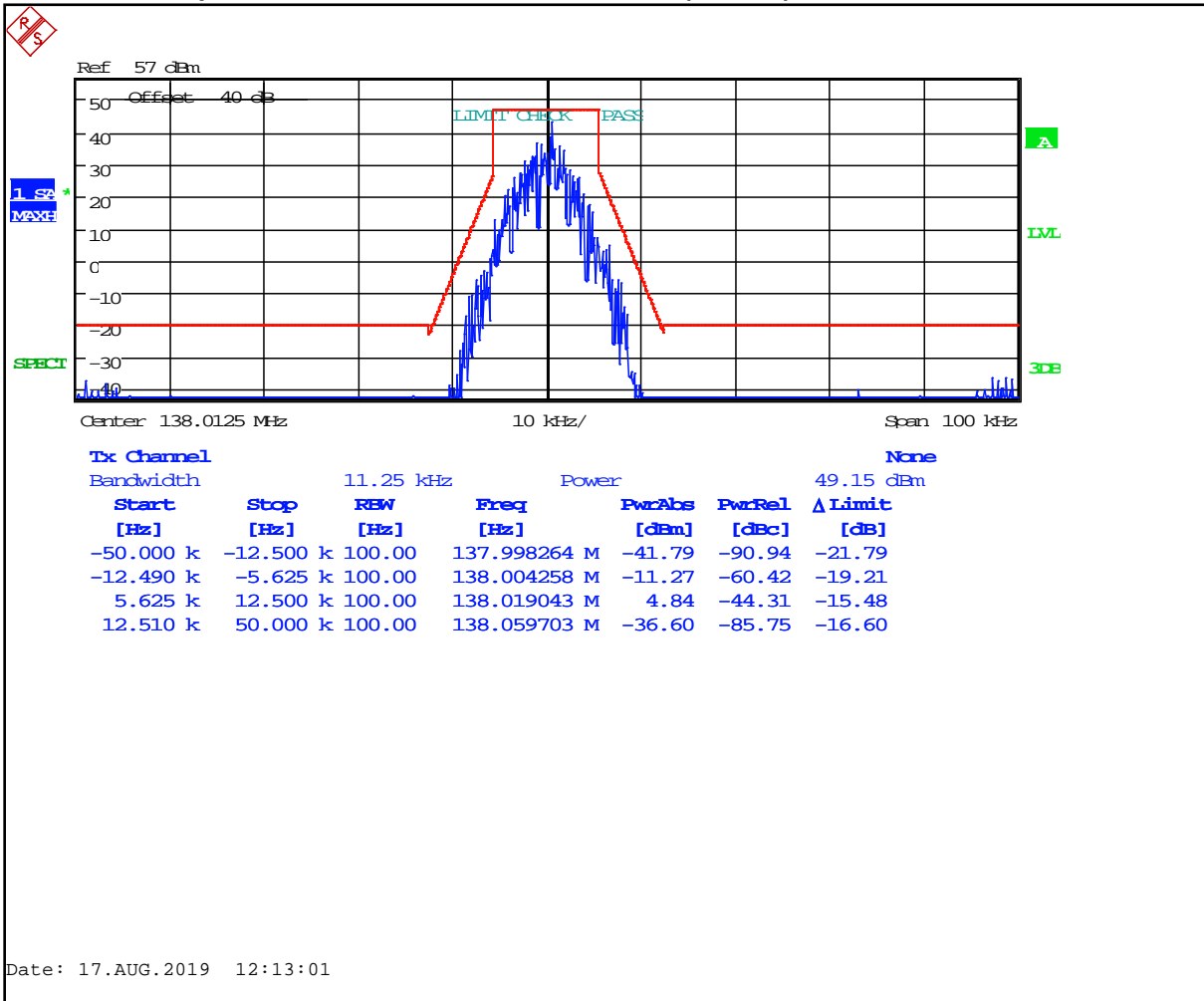
Plot 8-45: Occupied Bandwidth – 519.9875 MHz – Analog Narrowband (Mask D)



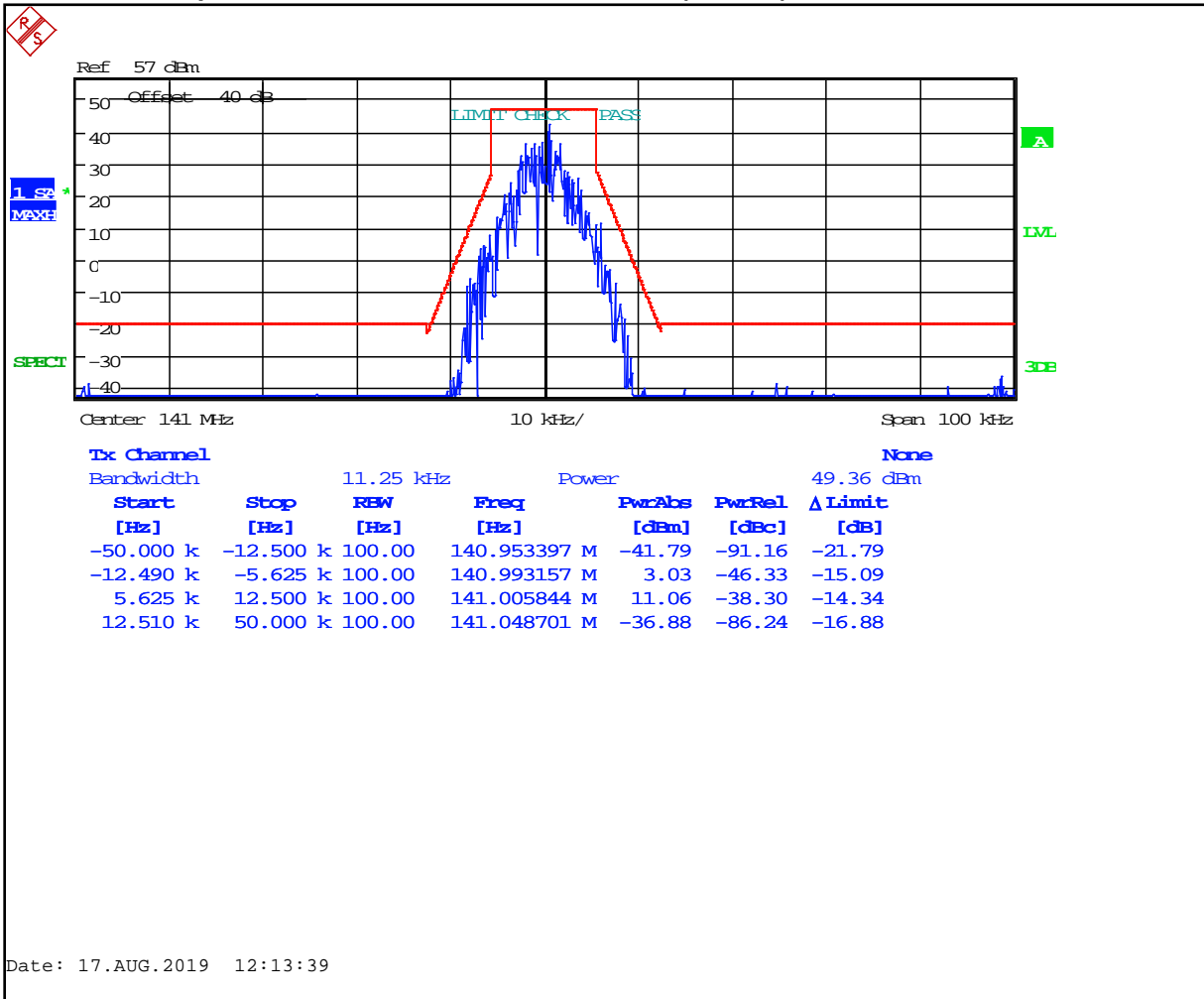
Plot 8-46: Occupied Bandwidth – 136.0125 MHz – P25 (Mask D)



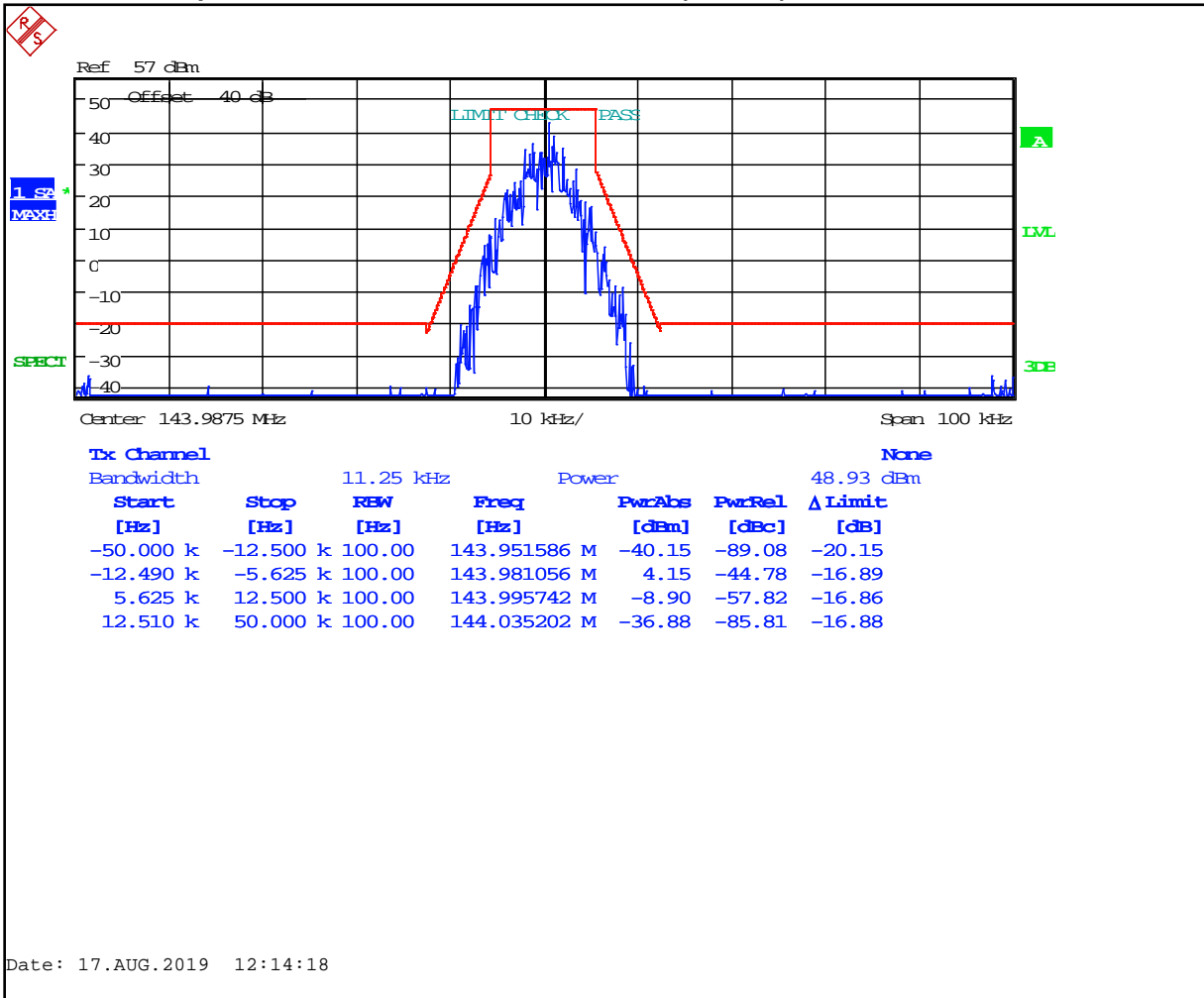
Plot 8-47: Occupied Bandwidth – 138.0125 MHz – P25 (Mask D)



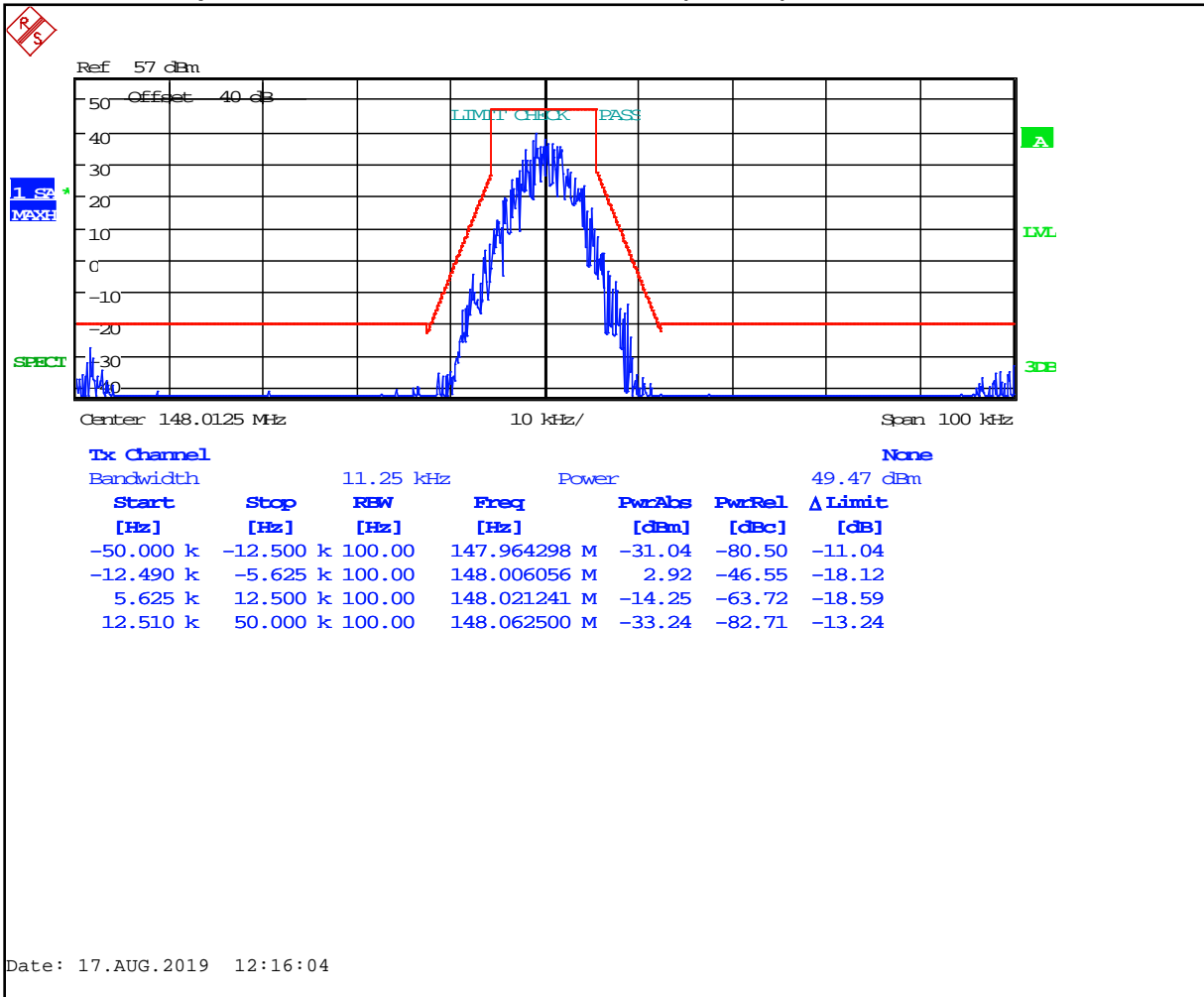
Plot 8-48: Occupied Bandwidth – 141.0000 MHz – P25 (Mask D)



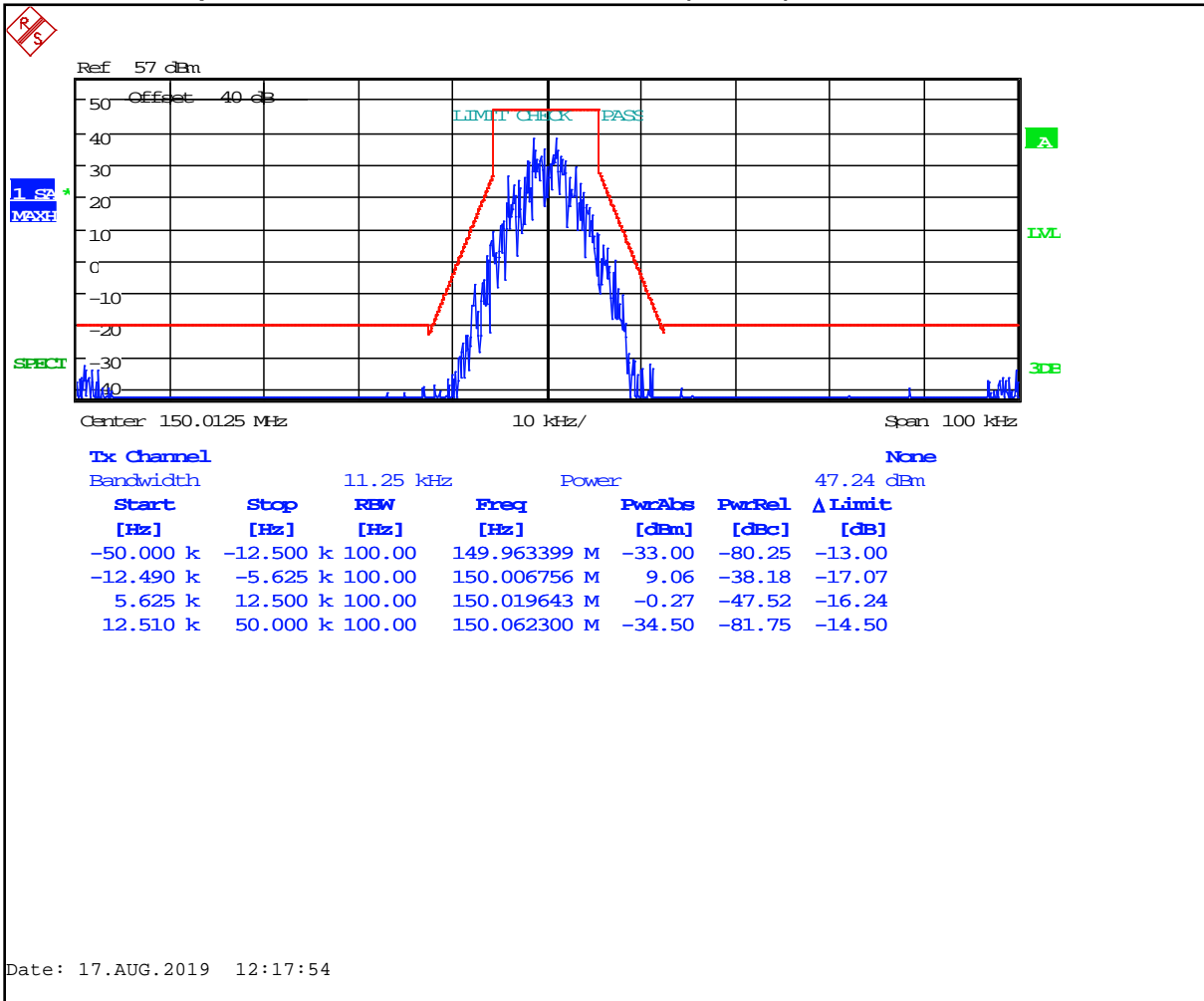
Plot 8-49: Occupied Bandwidth – 143.9875 MHz – P25 (Mask D)



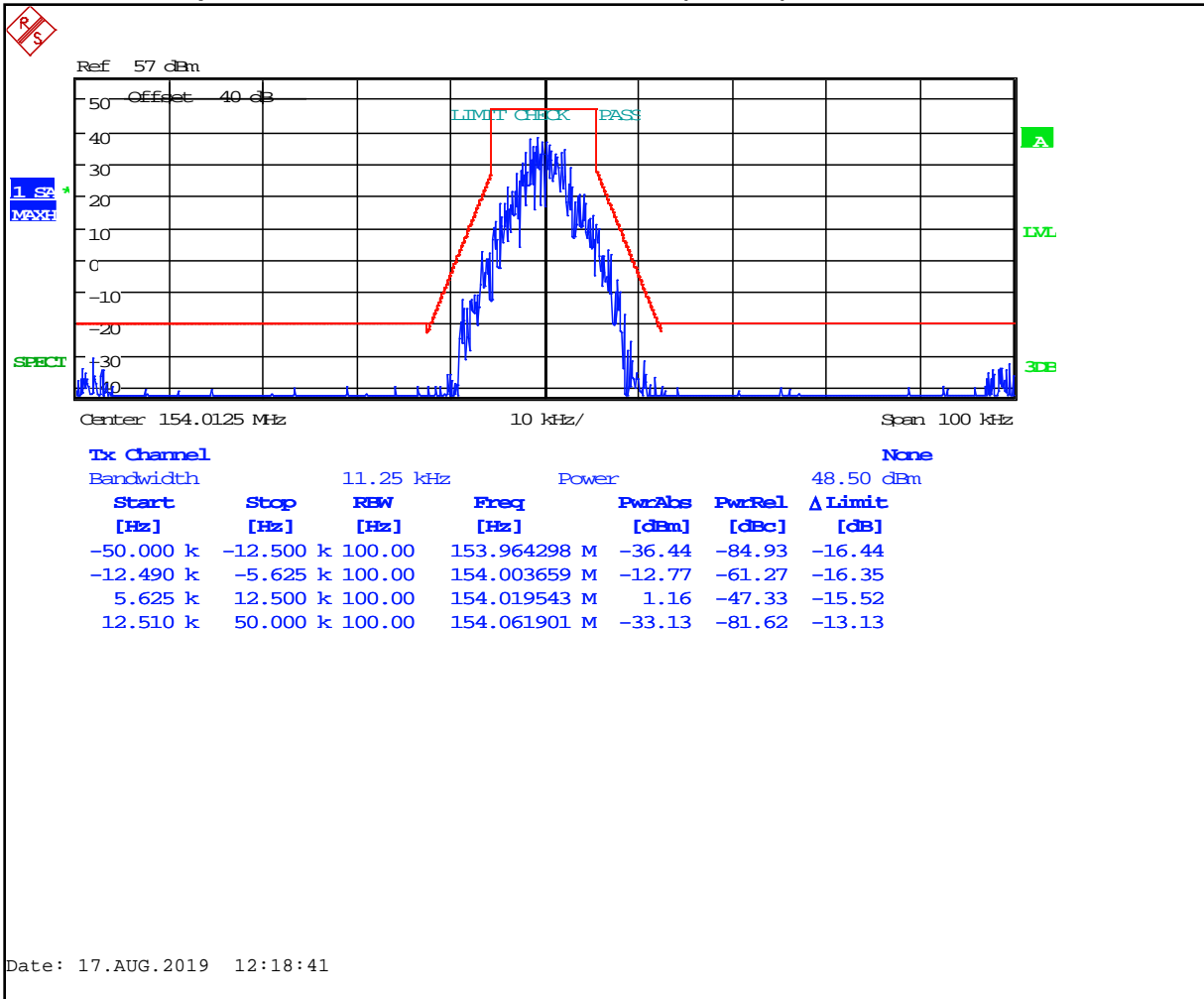
Plot 8-50: Occupied Bandwidth – 148.0125 MHz – P25 (Mask D)



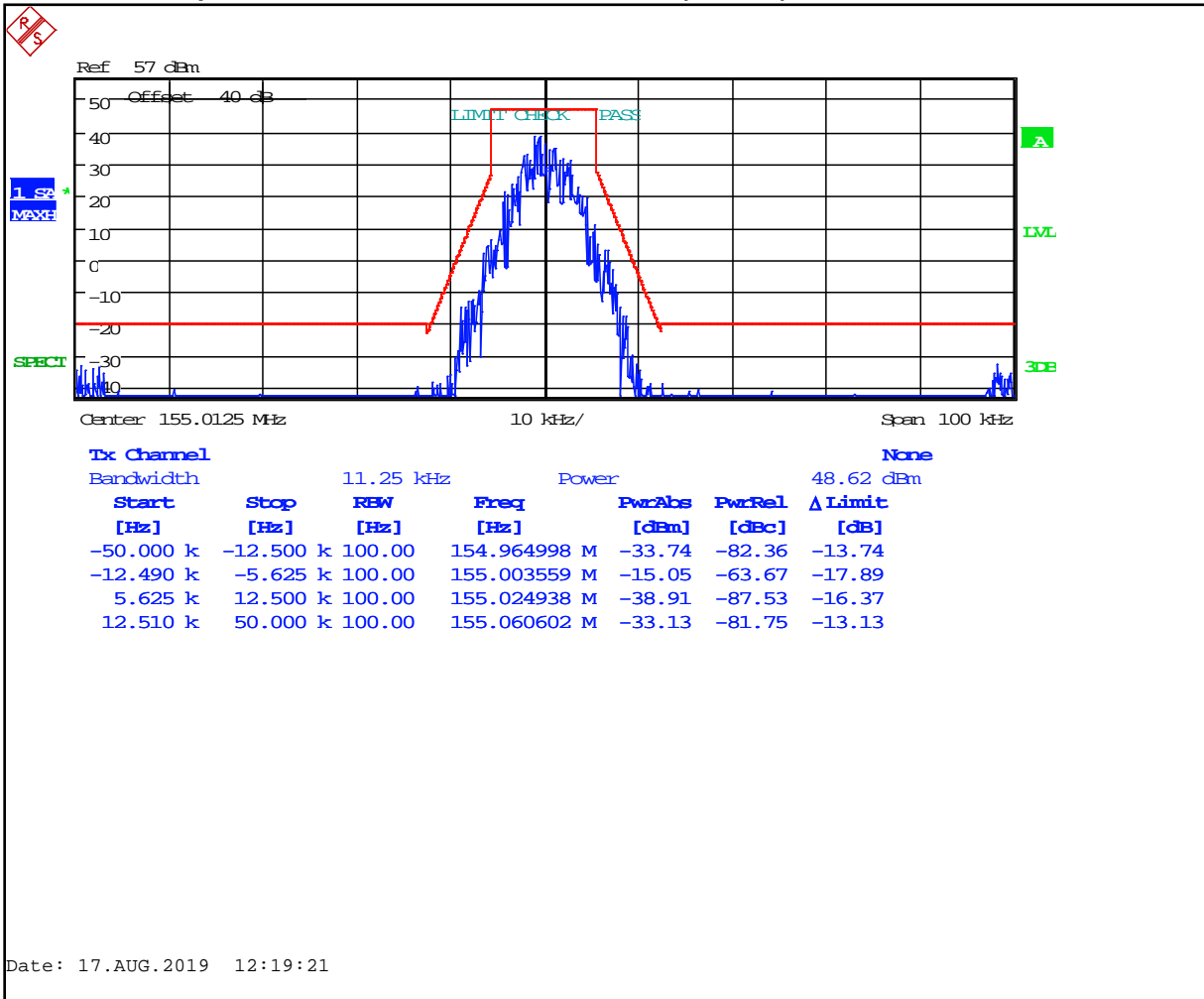
Plot 8-51: Occupied Bandwidth – 150.0125 MHz – P25 (Mask D)



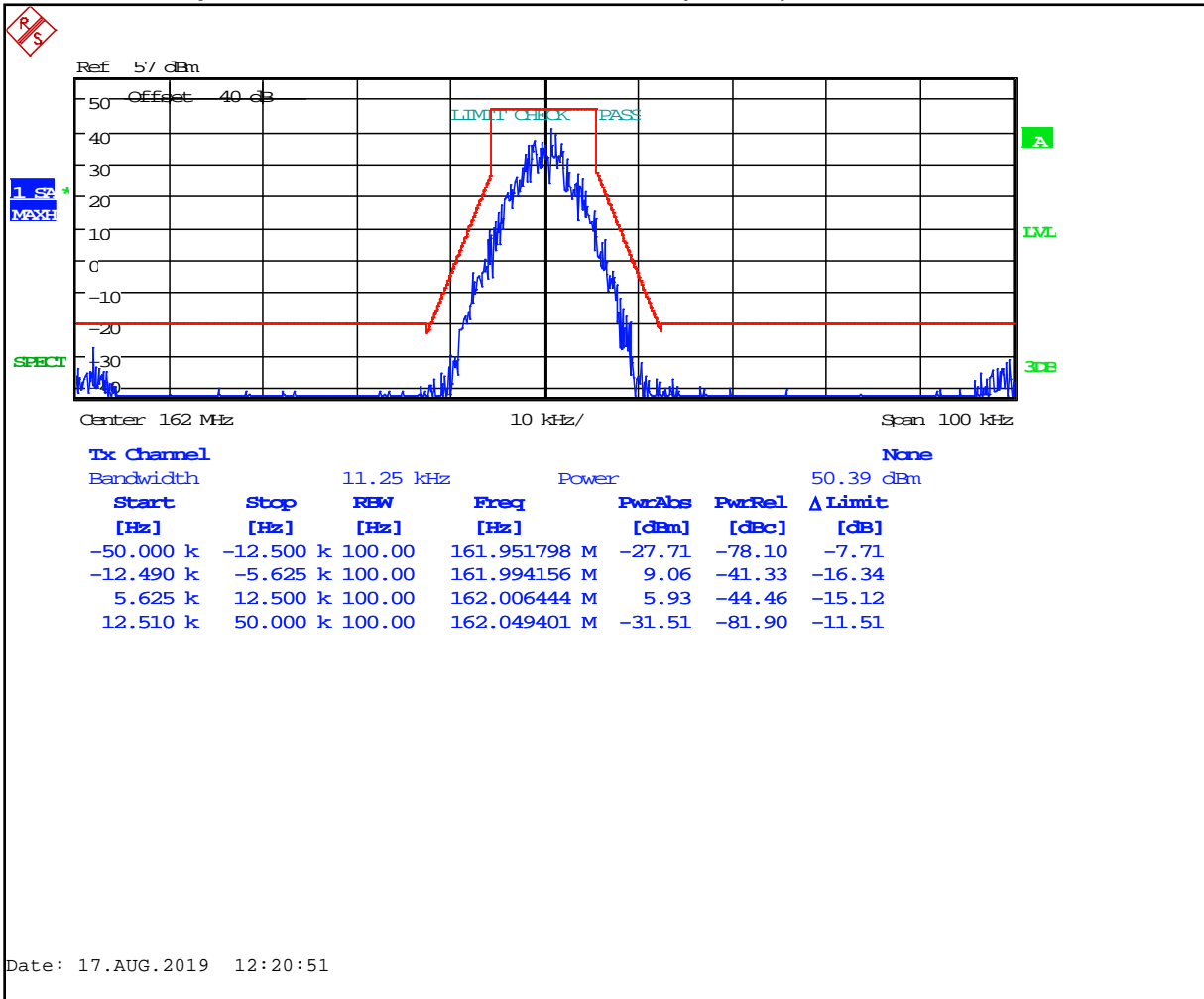
Plot 8-52: Occupied Bandwidth – 154.0125 MHz – P25 (Mask D)



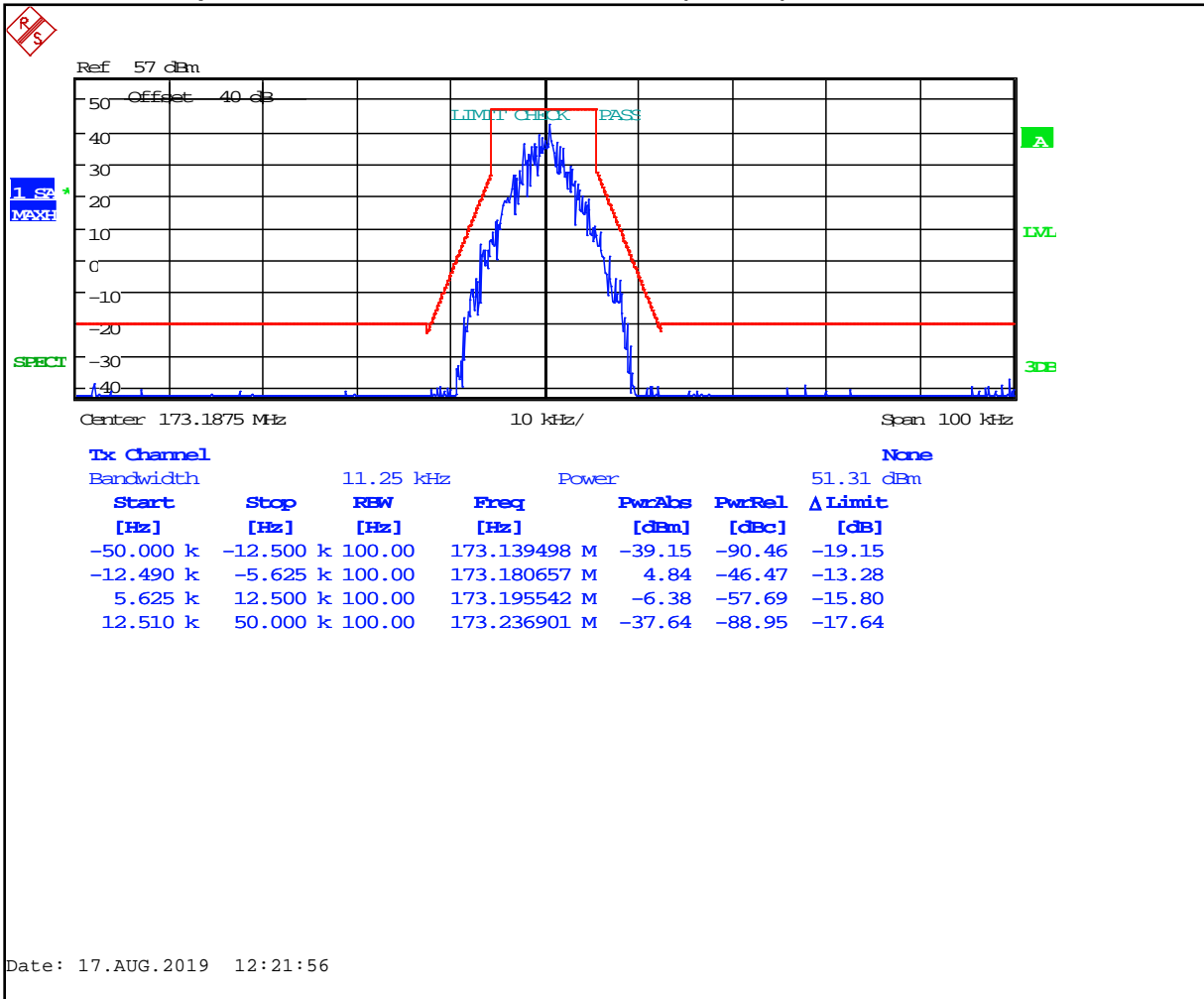
Plot 8-53: Occupied Bandwidth – 155.0125 MHz – P25 (Mask D)



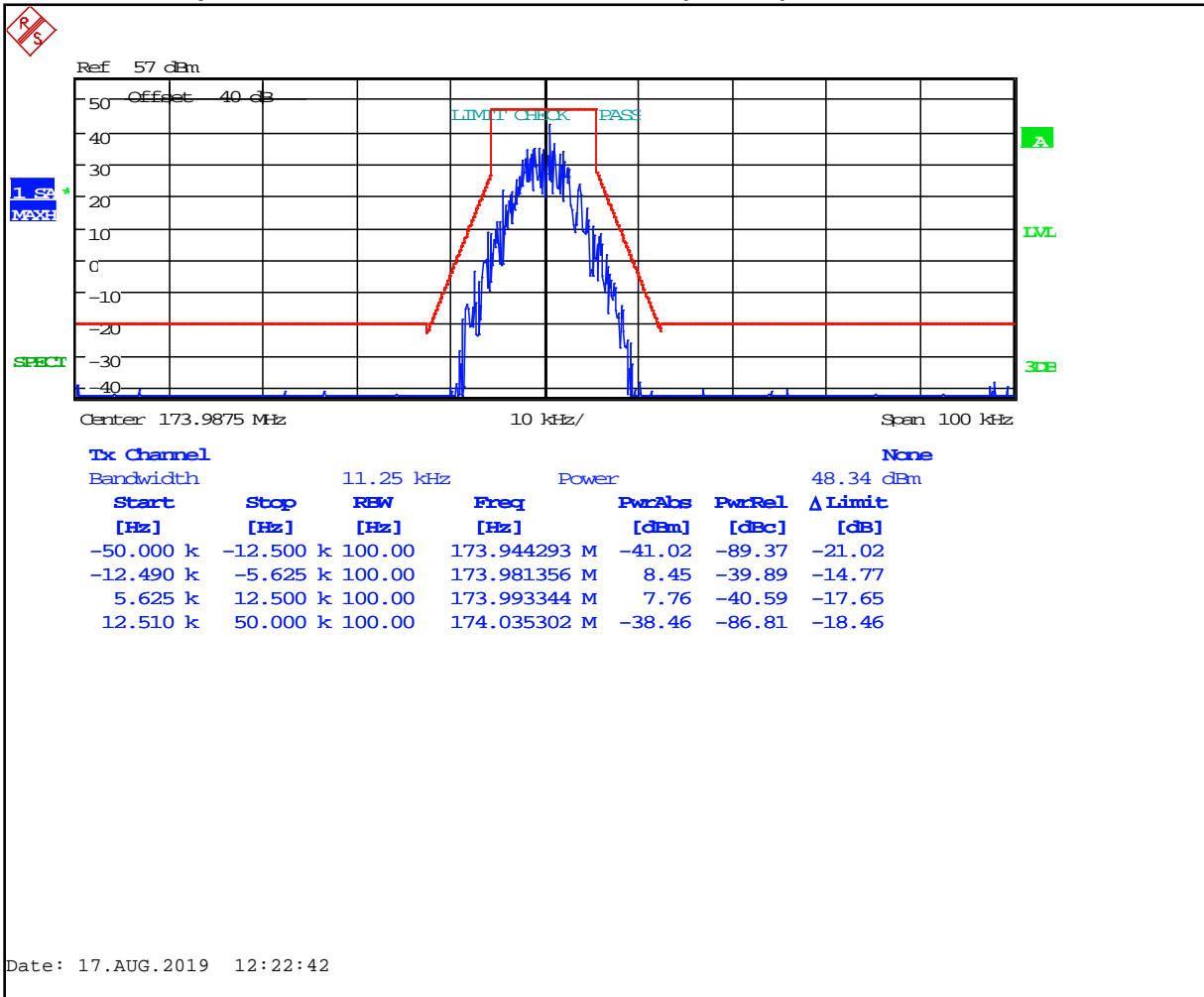
Plot 8-54: Occupied Bandwidth – 162.0000 MHz – P25 (Mask D)



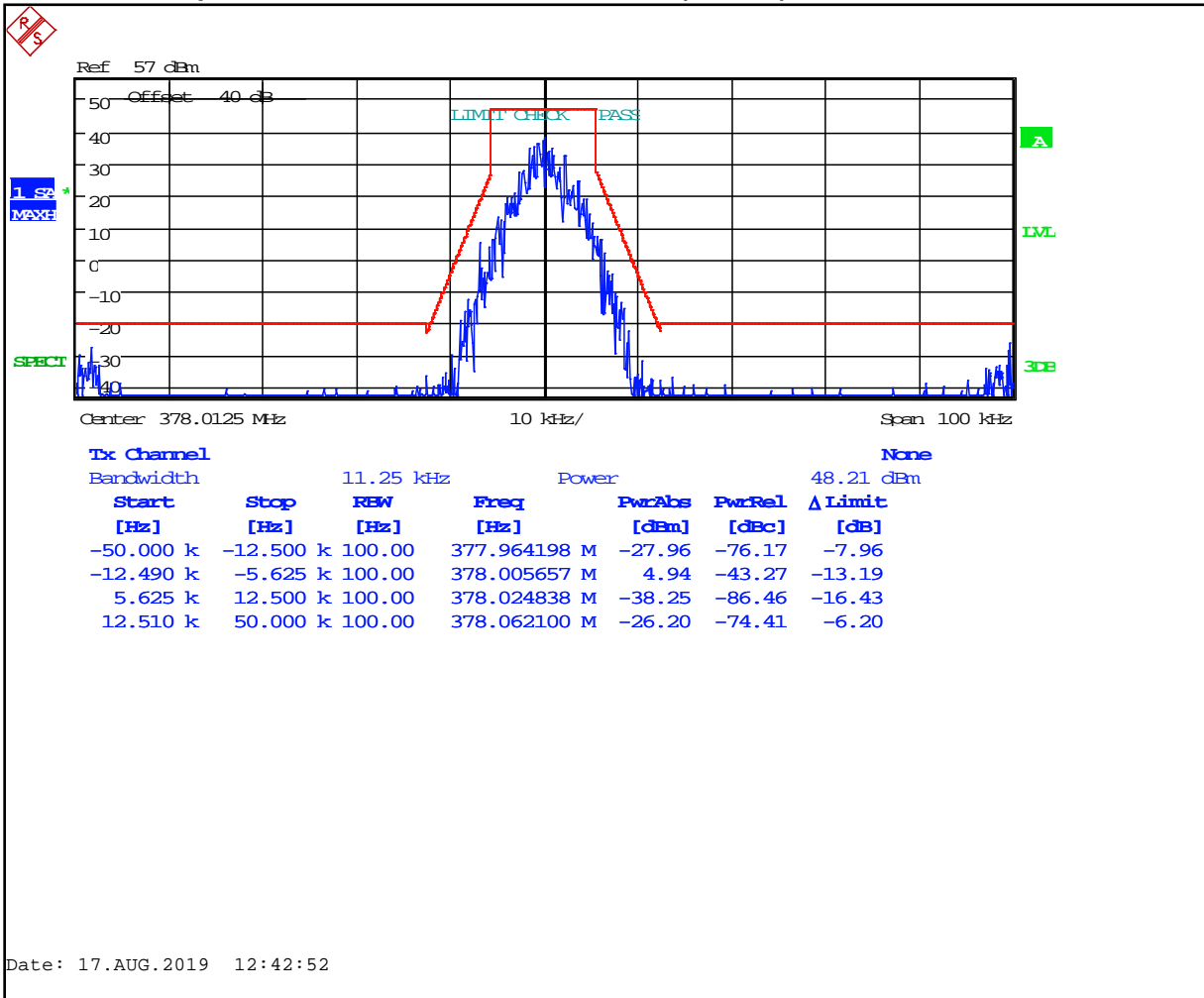
Plot 8-55: Occupied Bandwidth – 173.1875 MHz – P25 (Mask D)



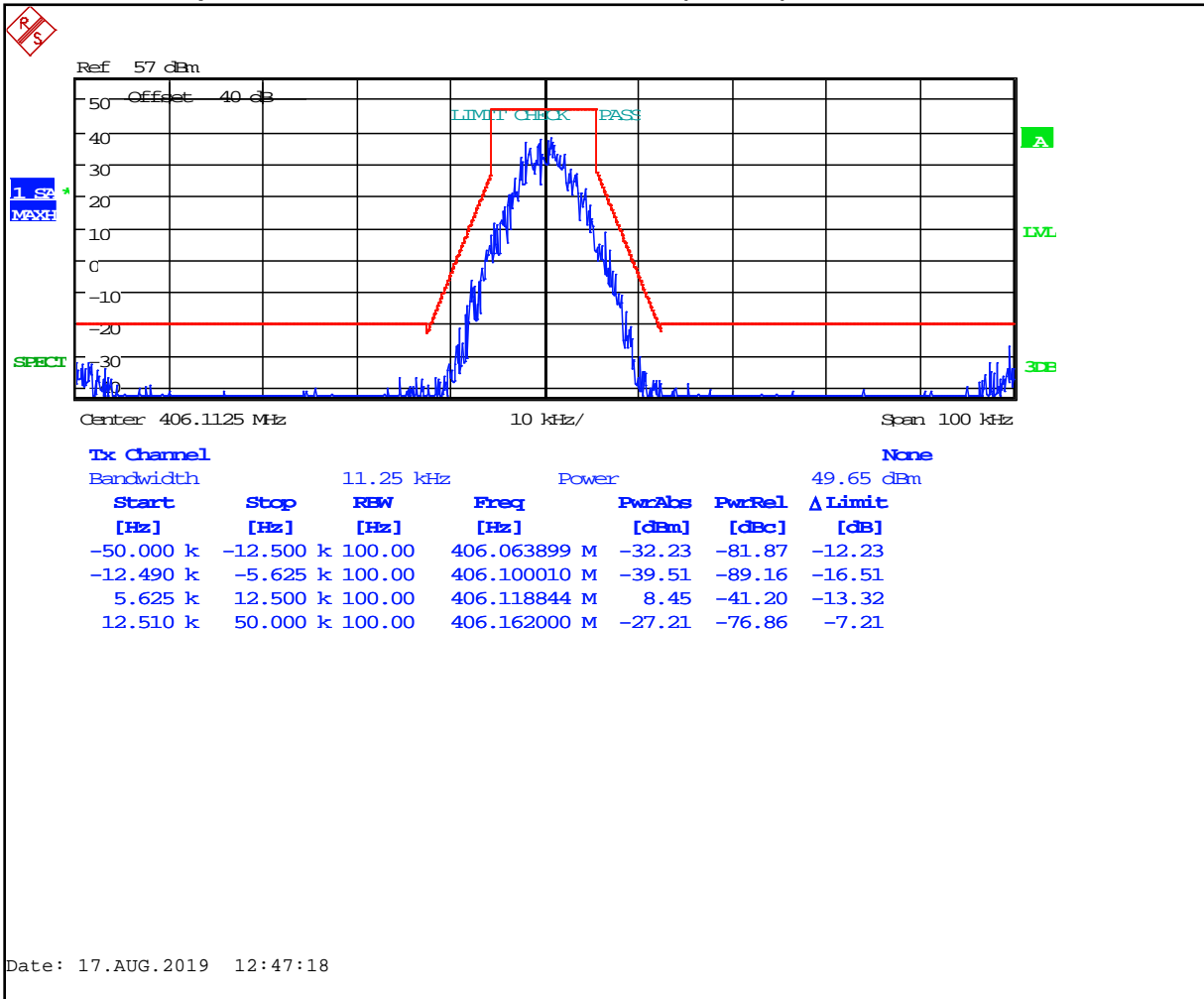
Plot 8-56: Occupied Bandwidth – 173.9875 MHz – P25 (Mask D)



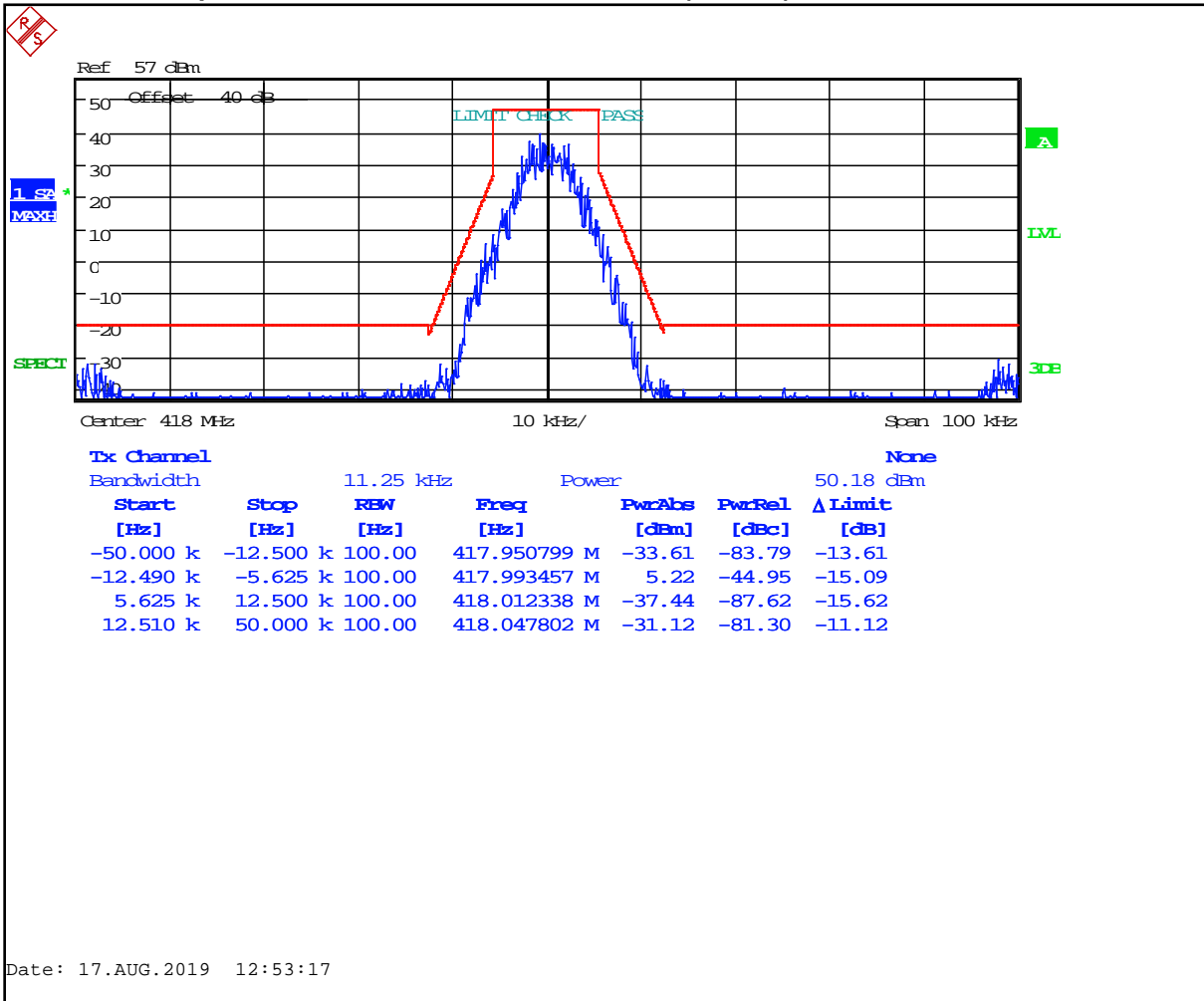
Plot 8-57: Occupied Bandwidth – 378.0125 MHz – P25 (Mask D)



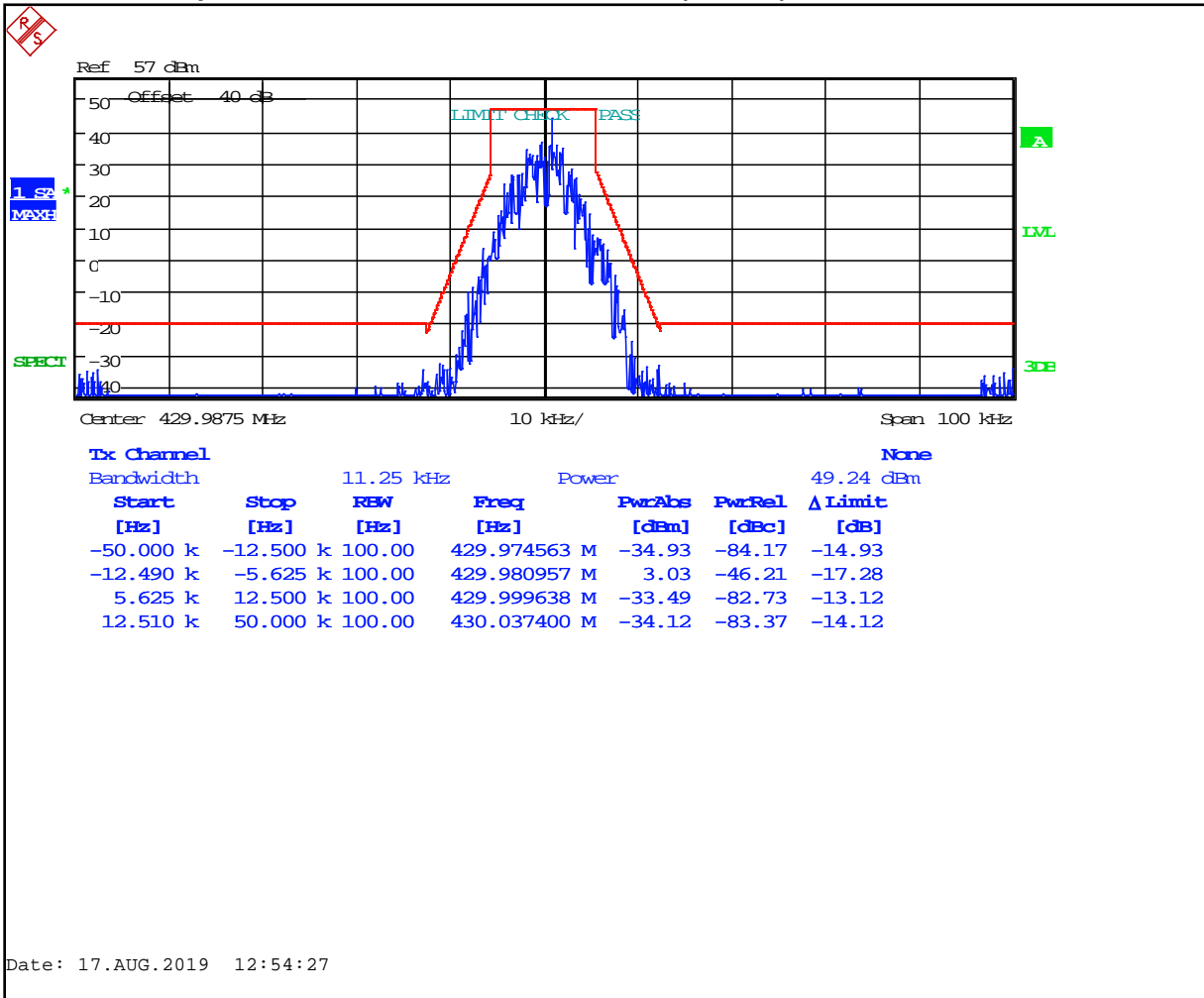
Plot 8-58: Occupied Bandwidth – 406.1125 MHz – P25 (Mask D)



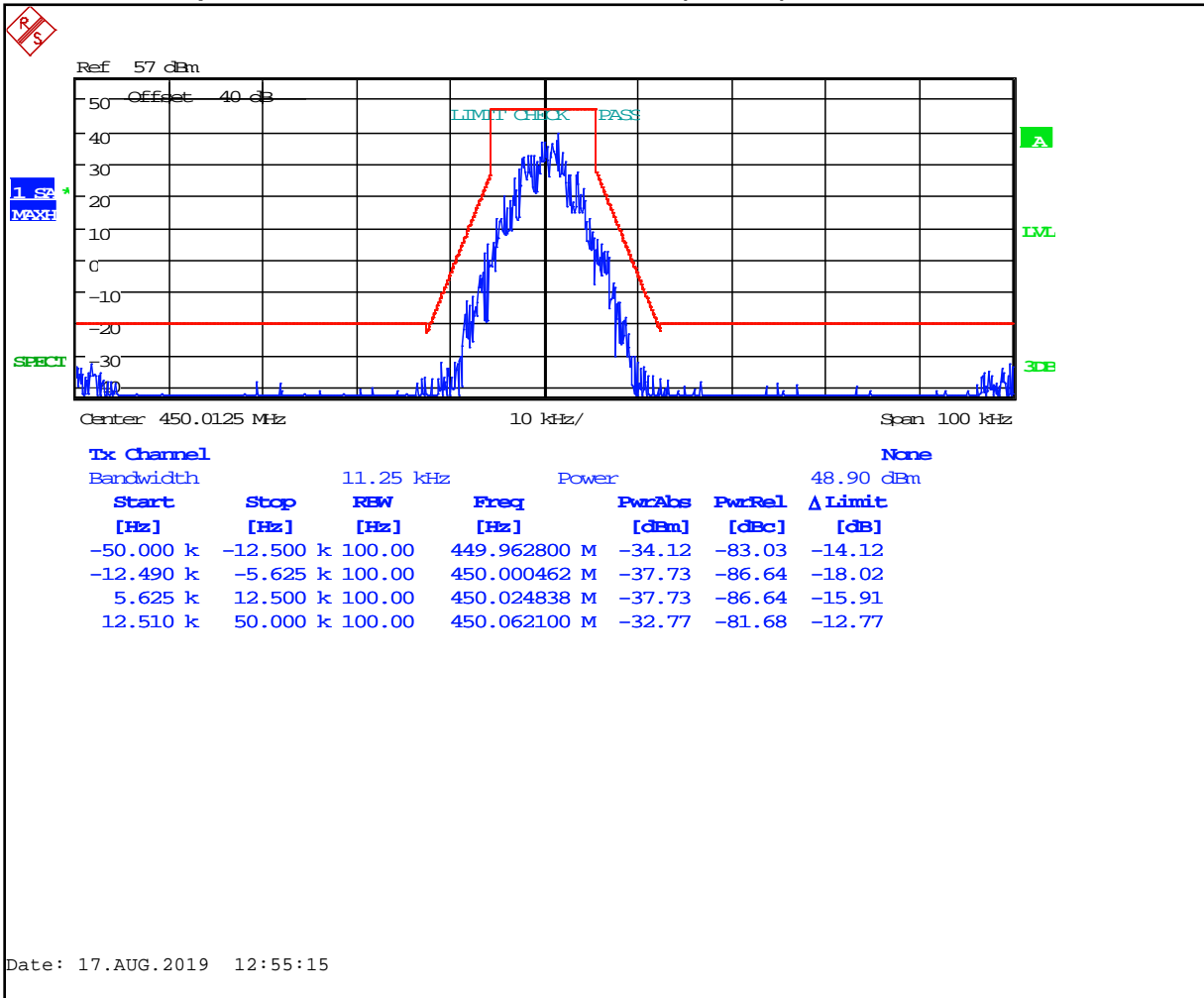
Plot 8-59: Occupied Bandwidth – 418.0000 MHz – P25 (Mask D)



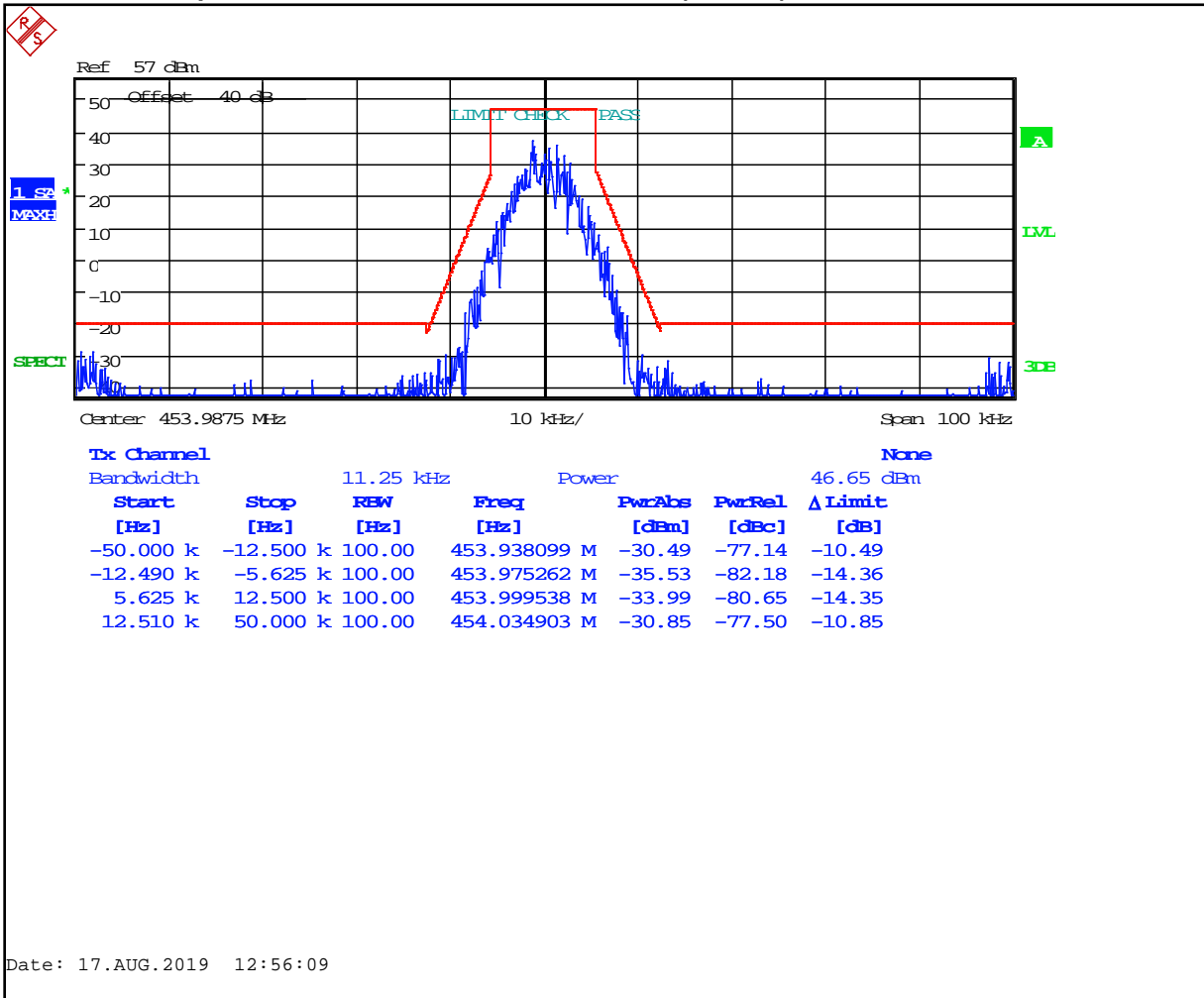
Plot 8-60: Occupied Bandwidth – 429.9875 MHz – P25 (Mask D)



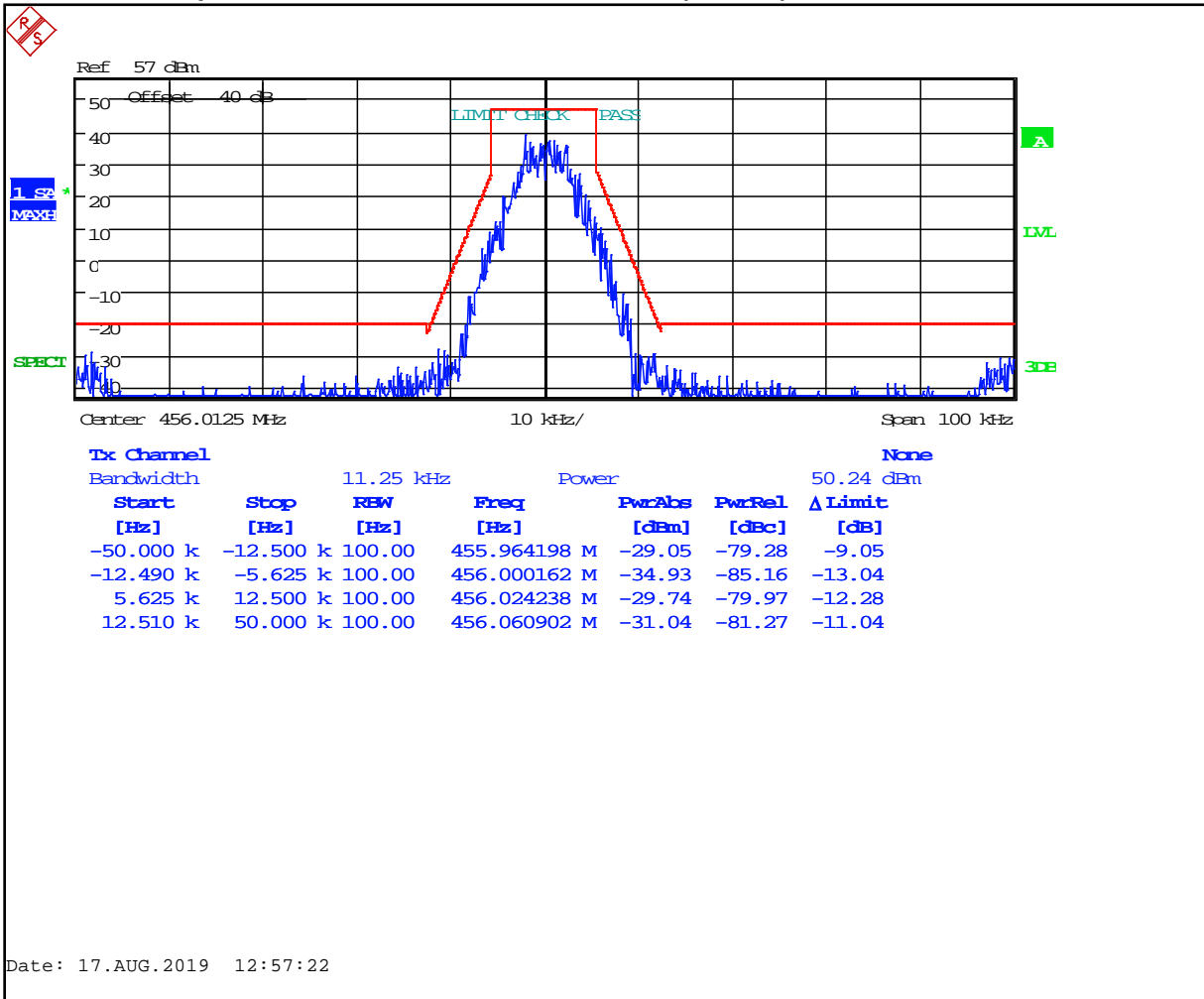
Plot 8-61: Occupied Bandwidth – 450.0125 MHz – P25 (Mask D)



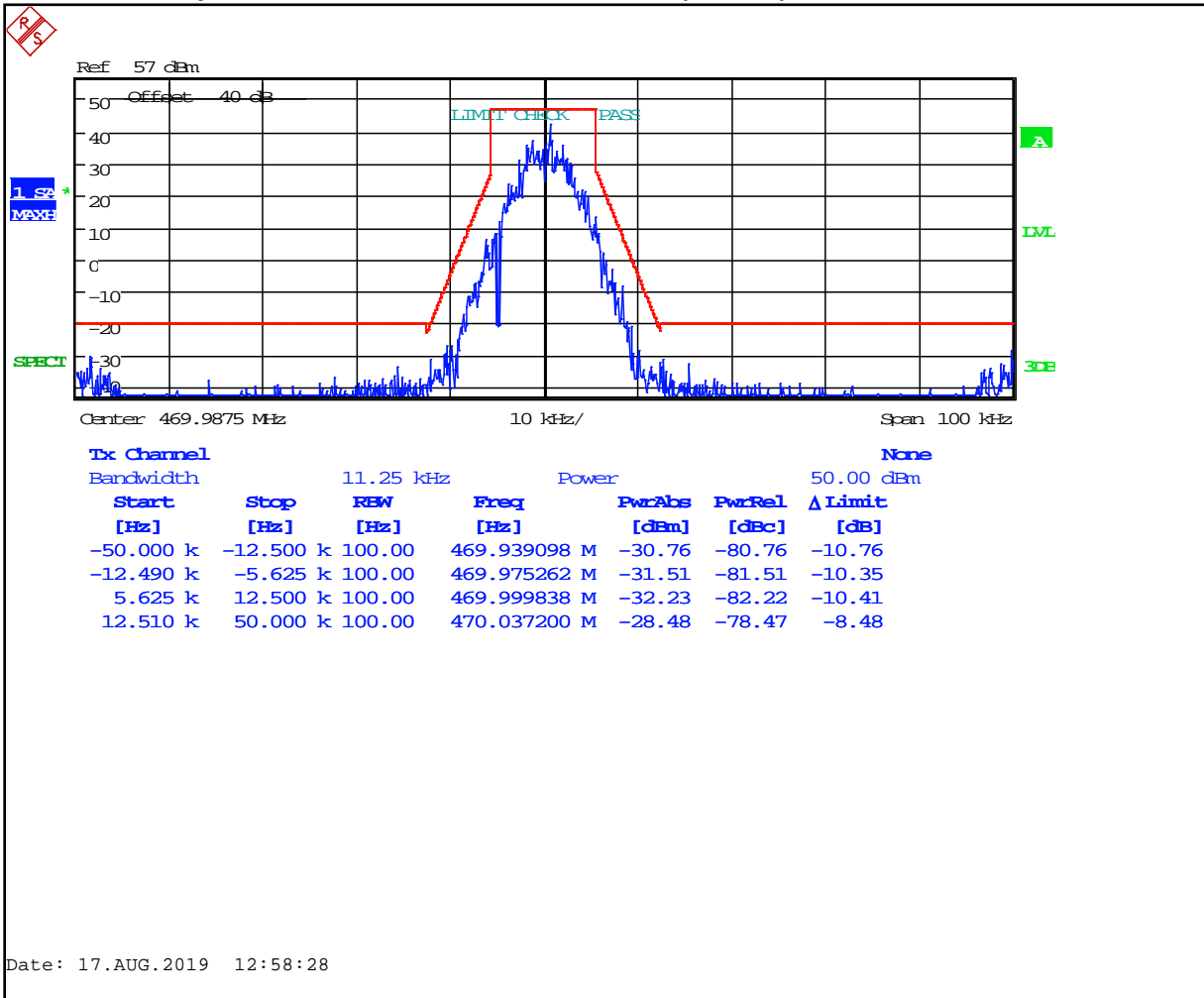
Plot 8-62: Occupied Bandwidth – 453.9875 MHz – P25 (Mask D)



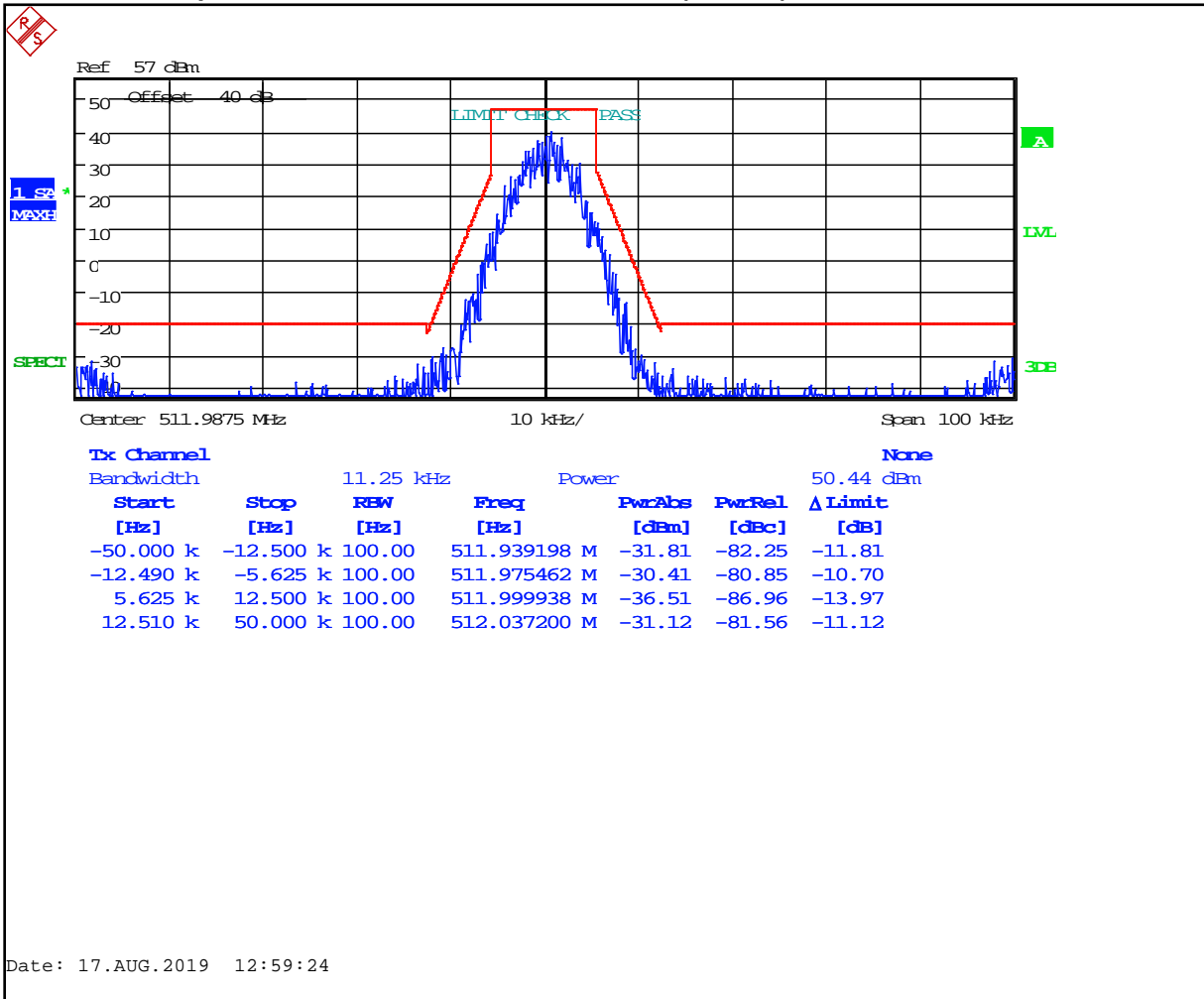
Plot 8-63: Occupied Bandwidth – 456.0125 MHz – P25 (Mask D)



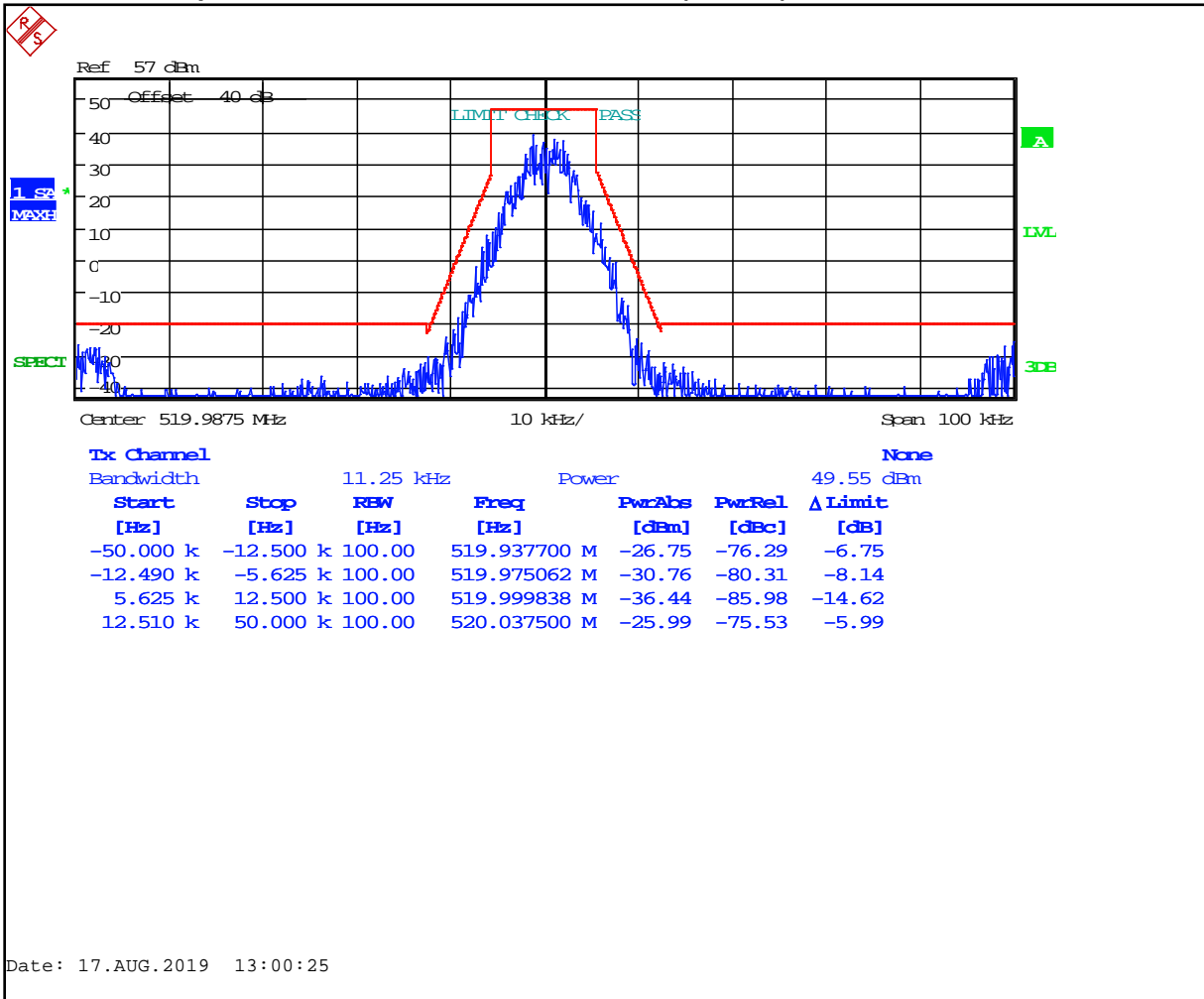
Plot 8-64: Occupied Bandwidth – 469.9875 MHz – P25 (Mask D)



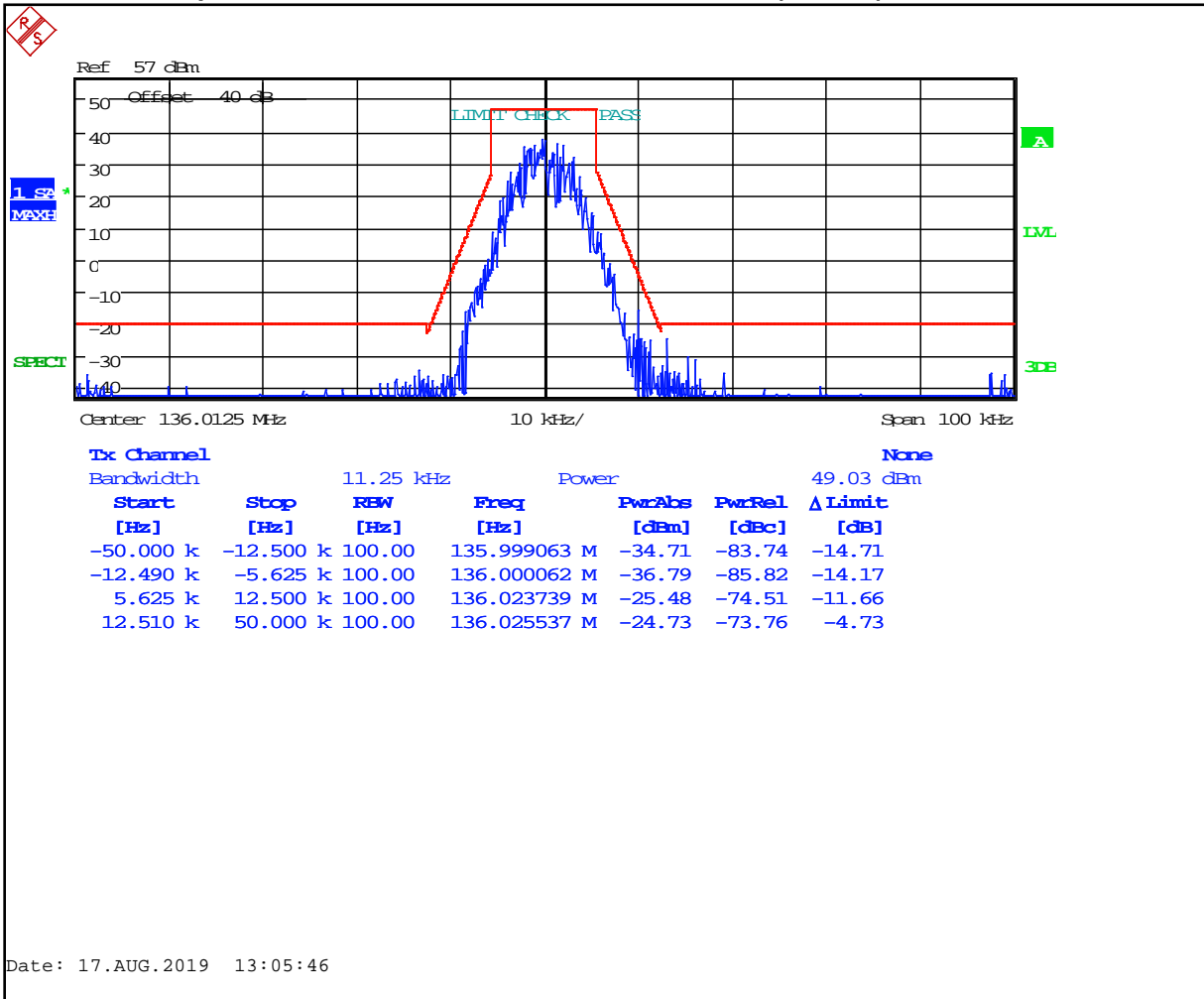
Plot 8-65: Occupied Bandwidth – 511.9875 MHz – P25 (Mask D)



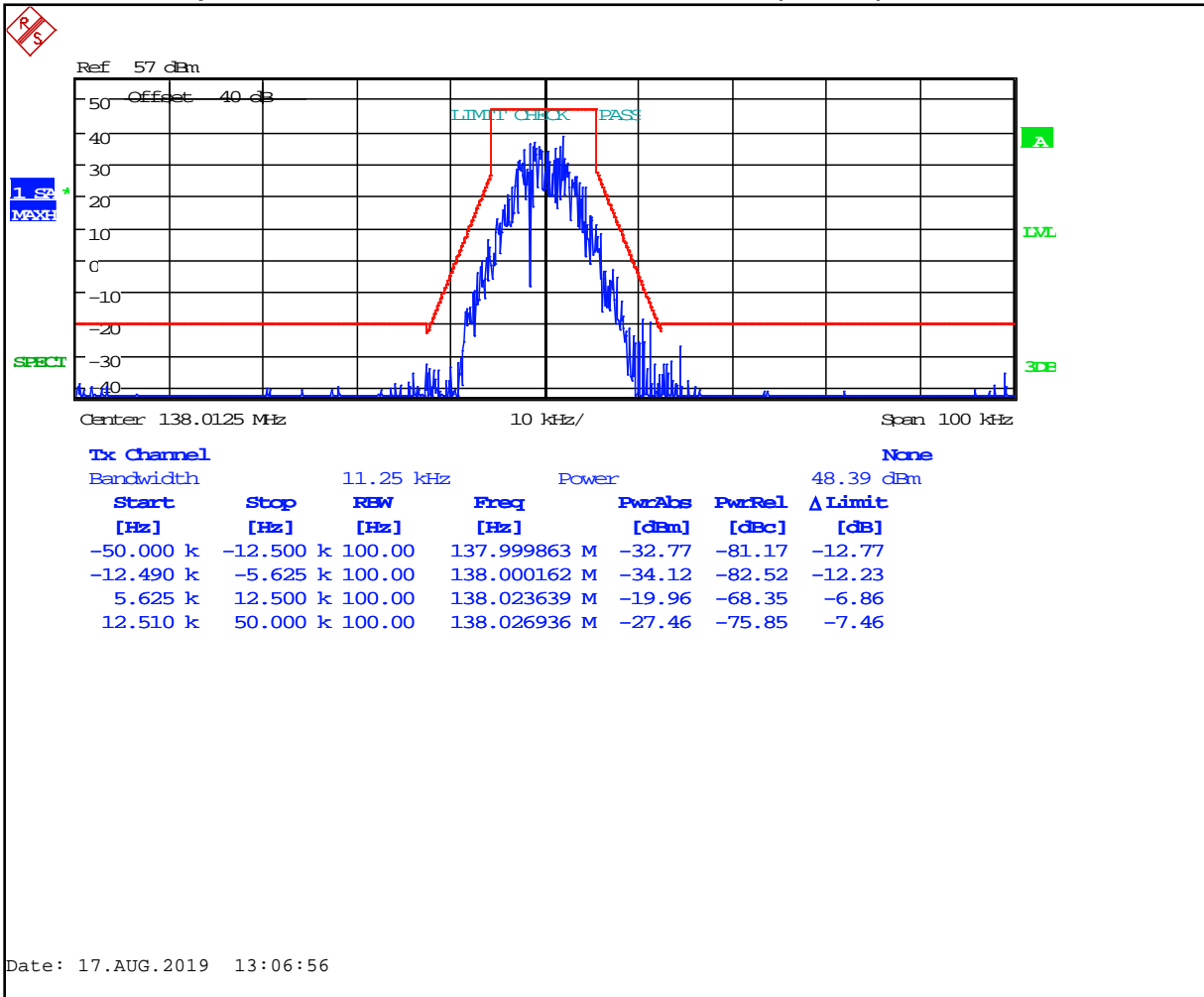
Plot 8-66: Occupied Bandwidth – 519.9875 MHz – P25 (Mask D)



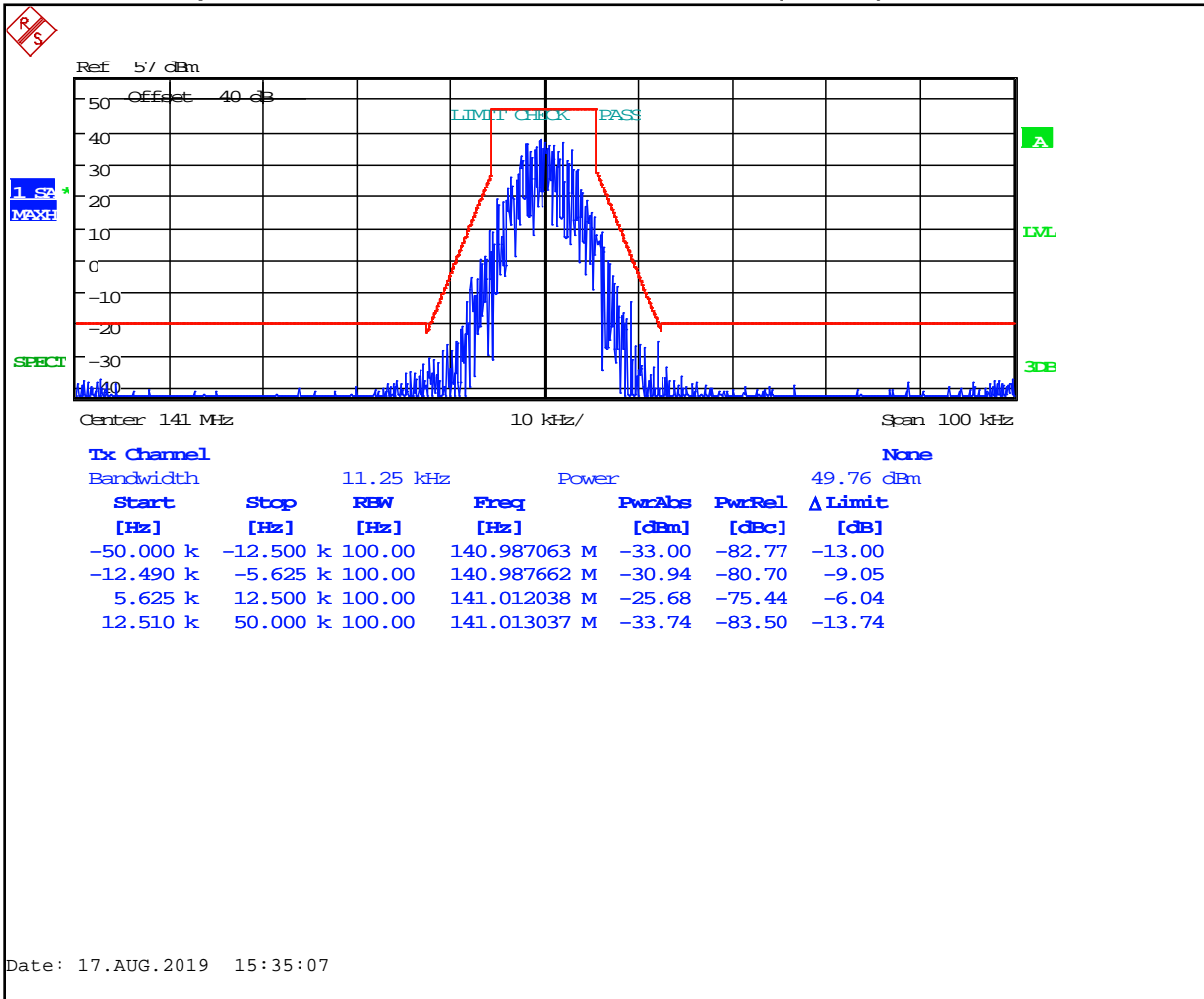
Plot 8-67: Occupied Bandwidth – 136.0125 MHz – CPM TDMA (Mask D)



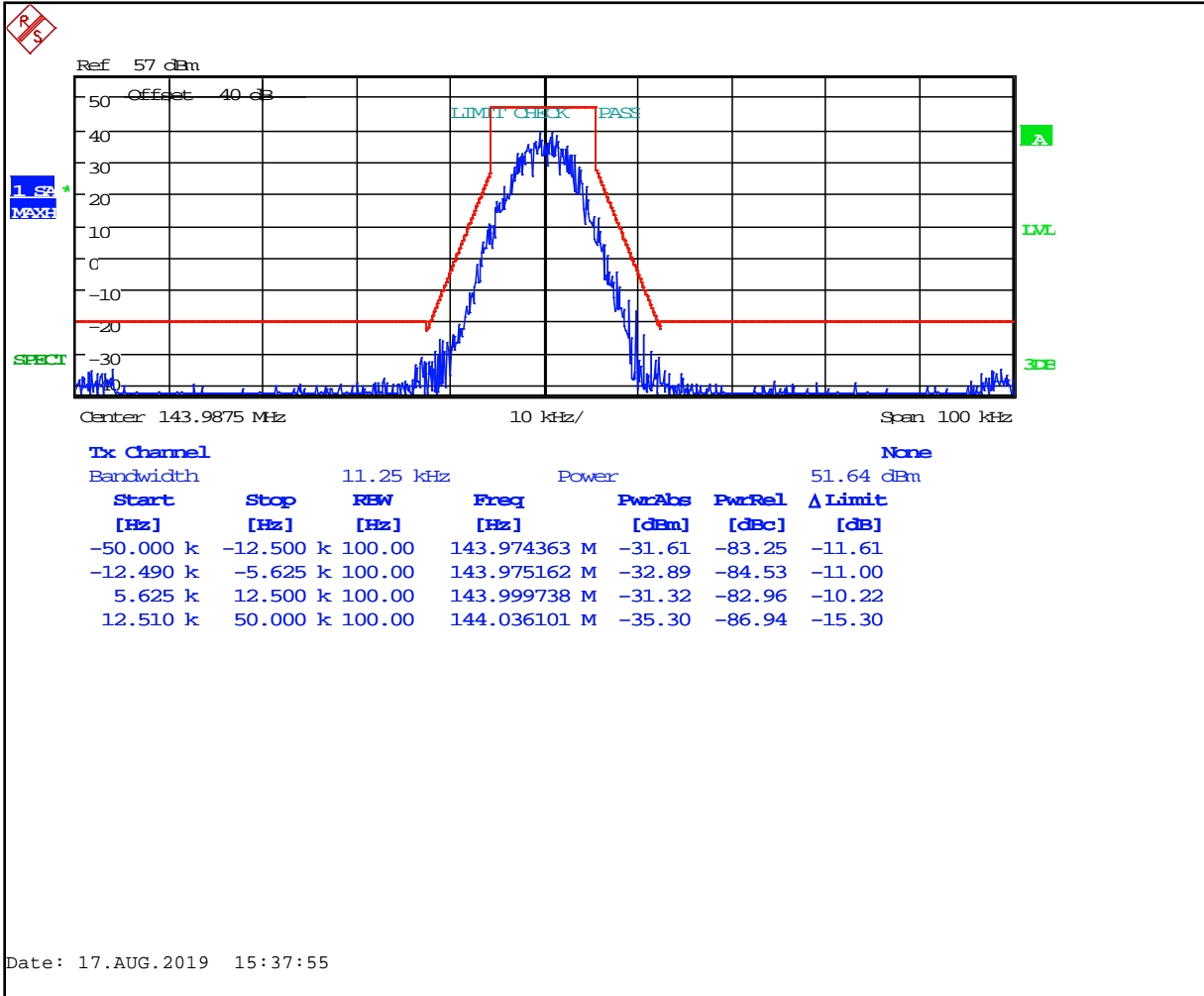
Plot 8-68: Occupied Bandwidth – 138.0125 MHz – CPM TDMA (Mask D)



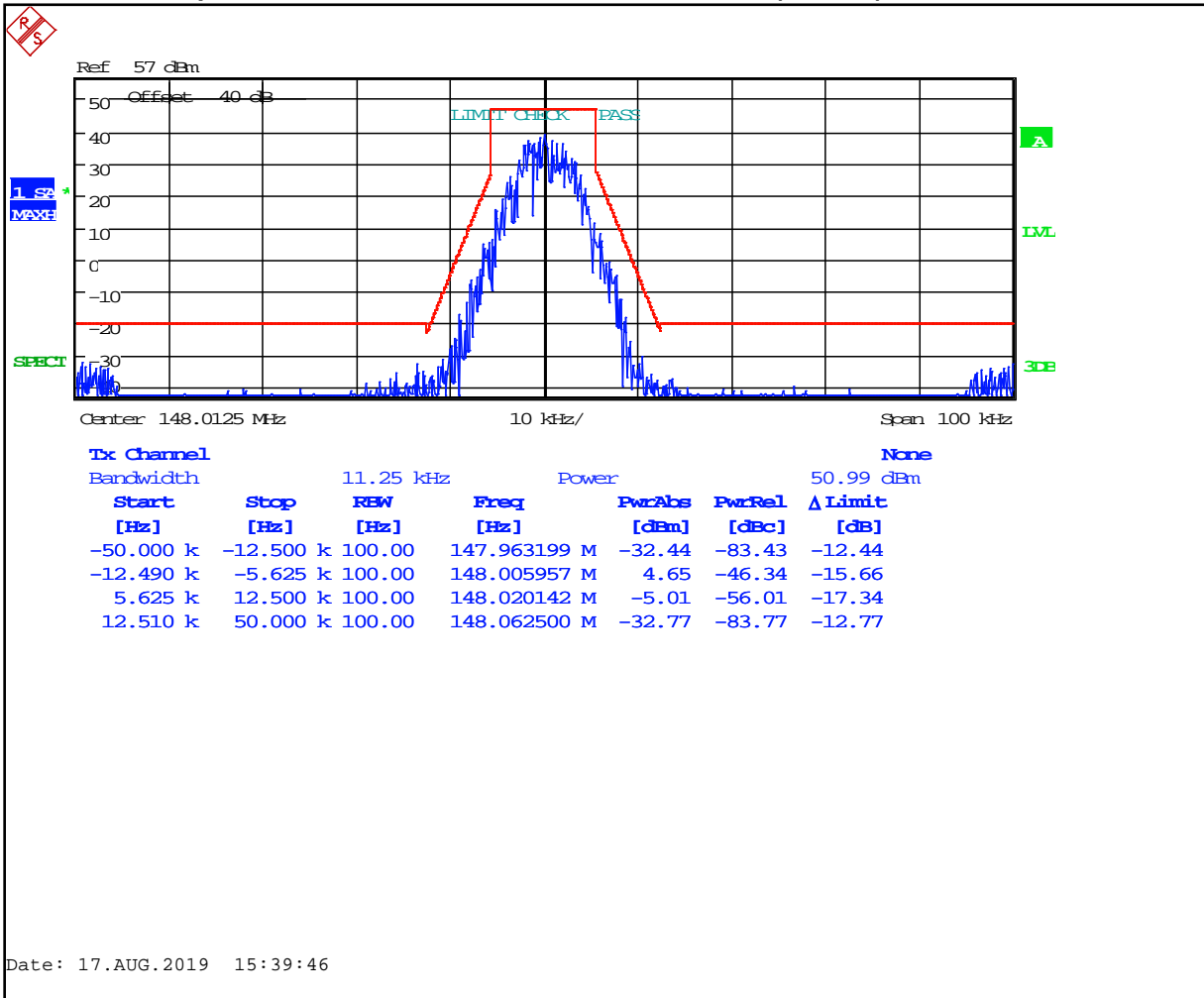
Plot 8-69: Occupied Bandwidth – 141.0000 MHz – CPM TDMA (Mask D)



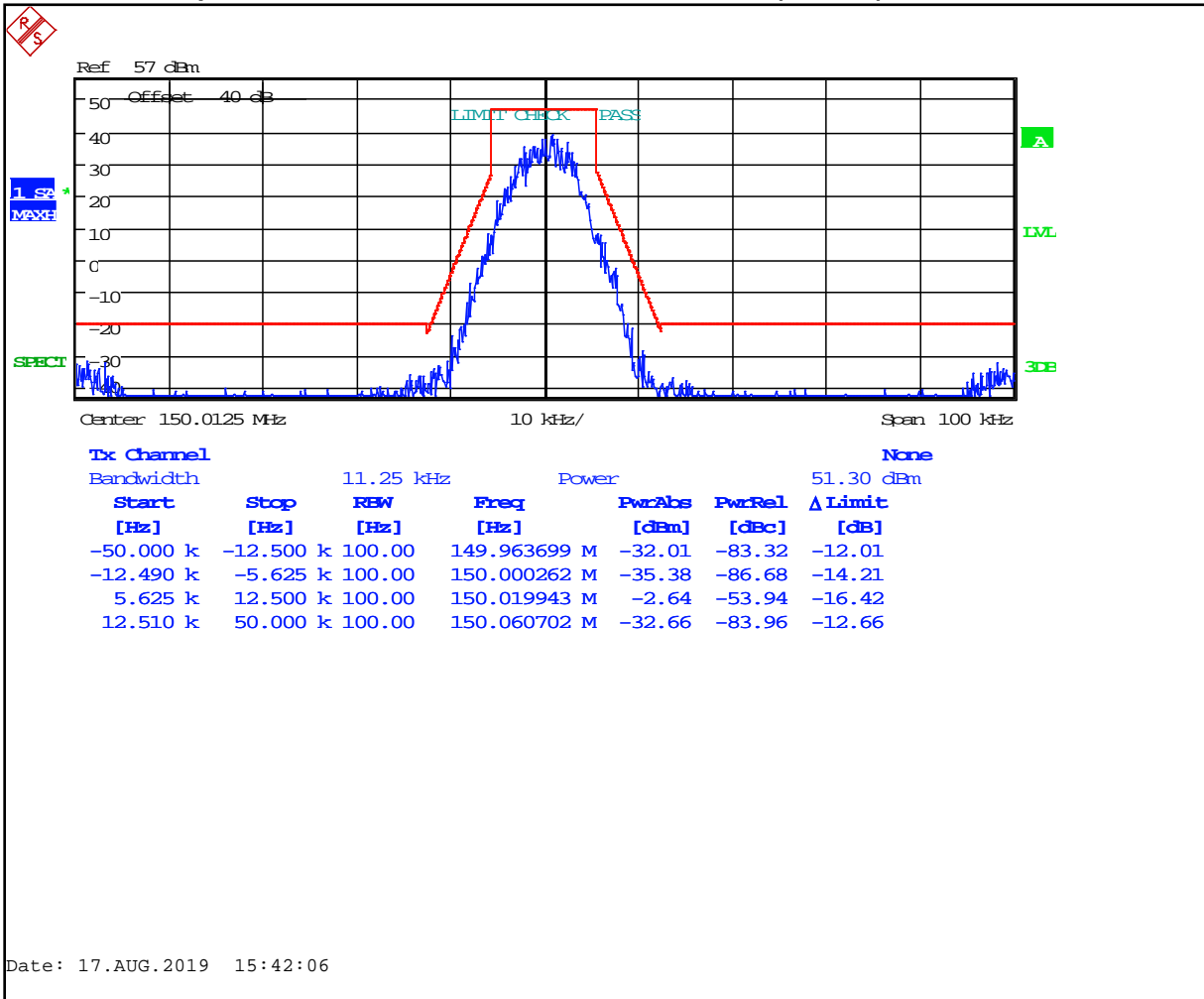
Plot 8-70: Occupied Bandwidth – 143.9875 MHz – CPM TDMA (Mask D)



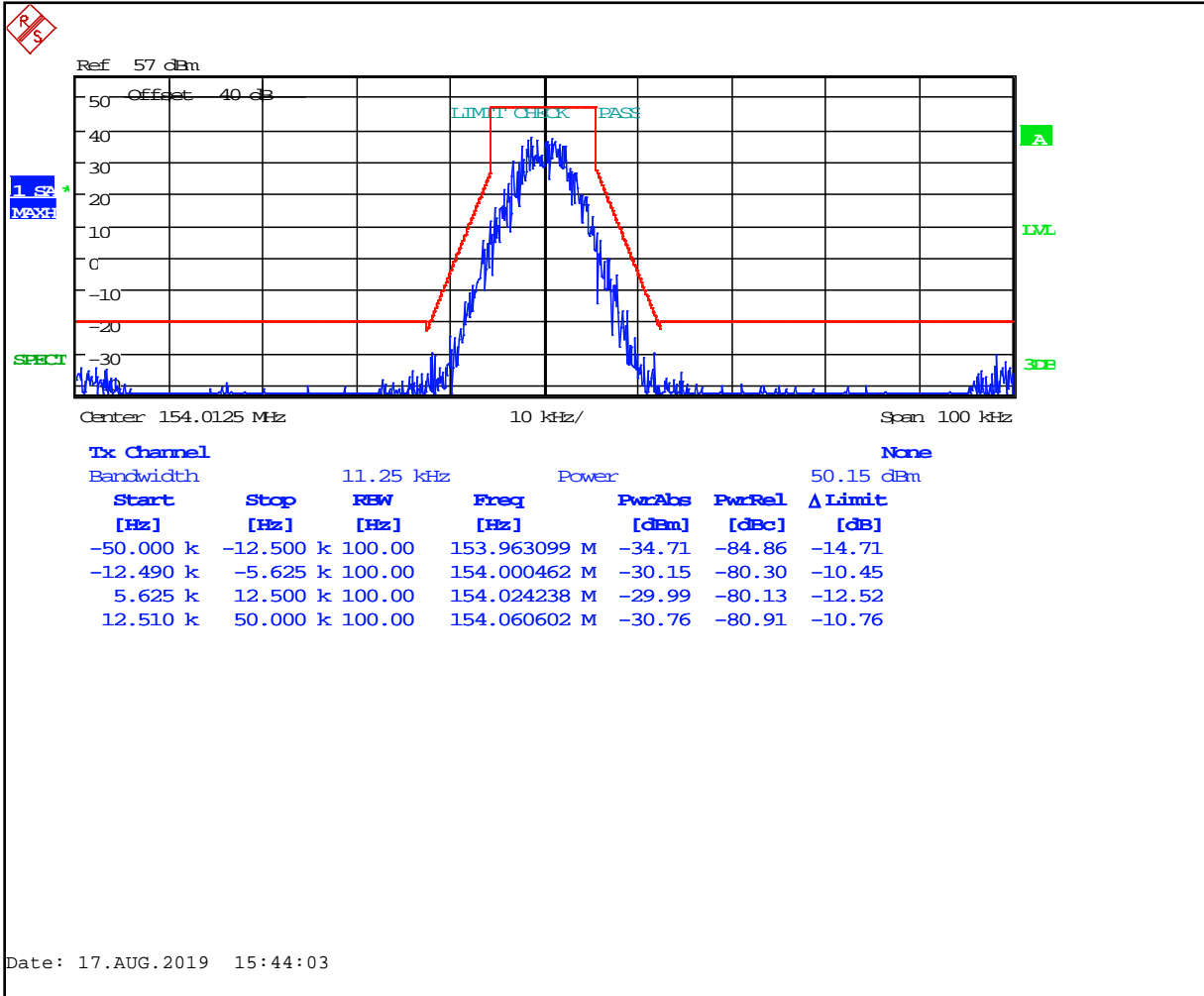
Plot 8-71: Occupied Bandwidth – 148.0125 MHz – CPM TDMA (Mask D)



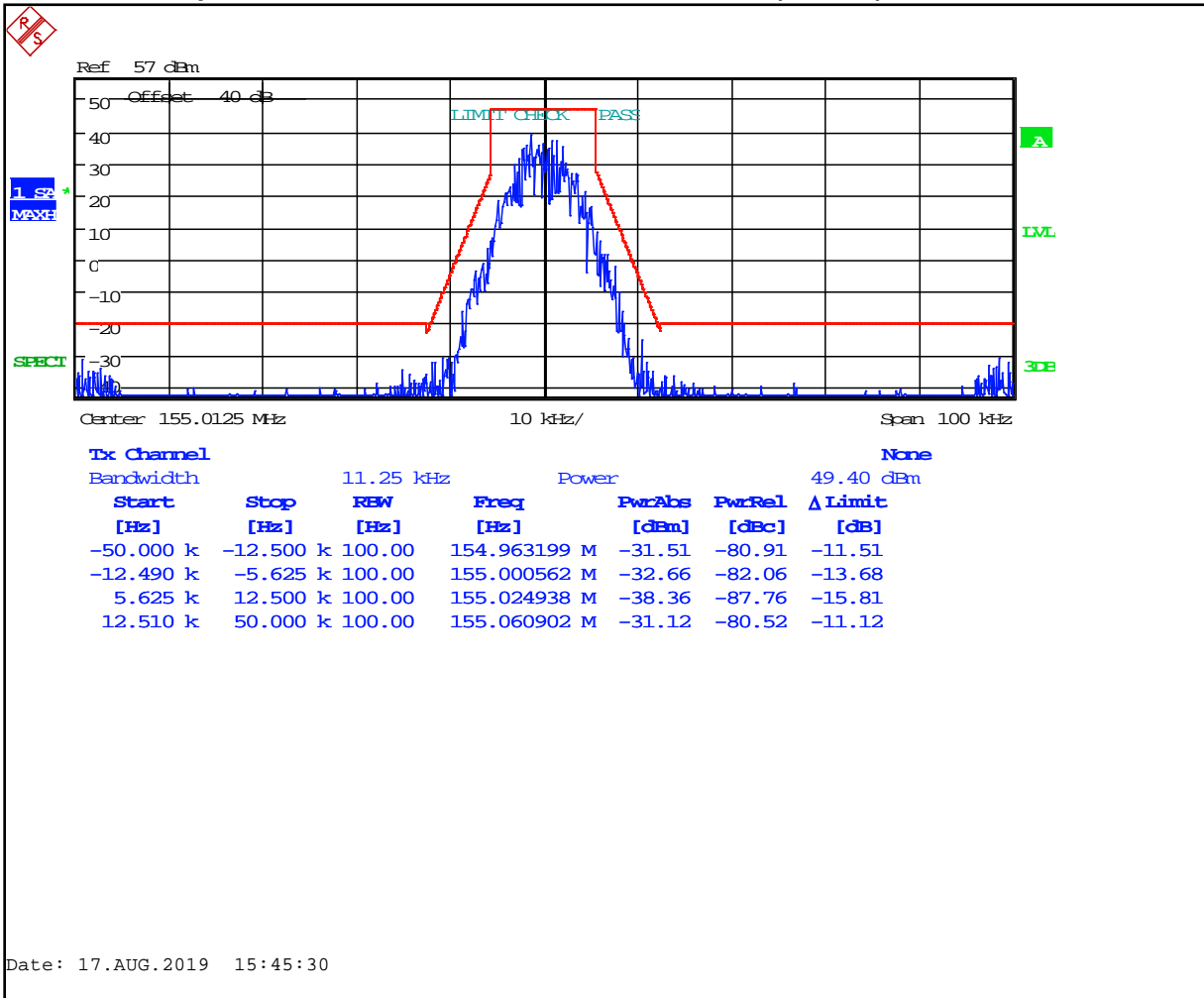
Plot 8-72: Occupied Bandwidth – 150.0125 MHz – CPM TDMA (Mask D)



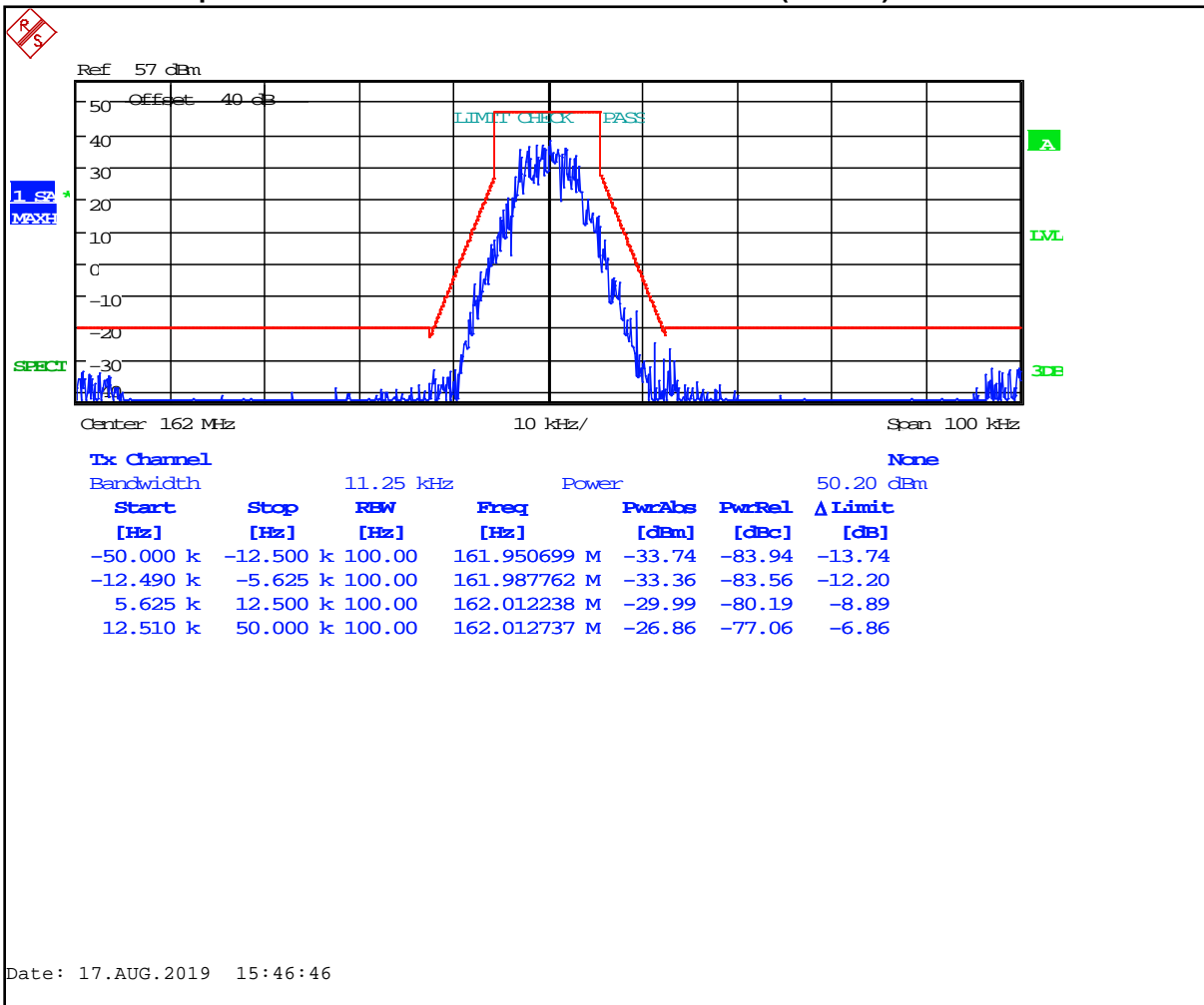
Plot 8-73: Occupied Bandwidth – 154.0125 MHz – CPM TDMA (Mask D)



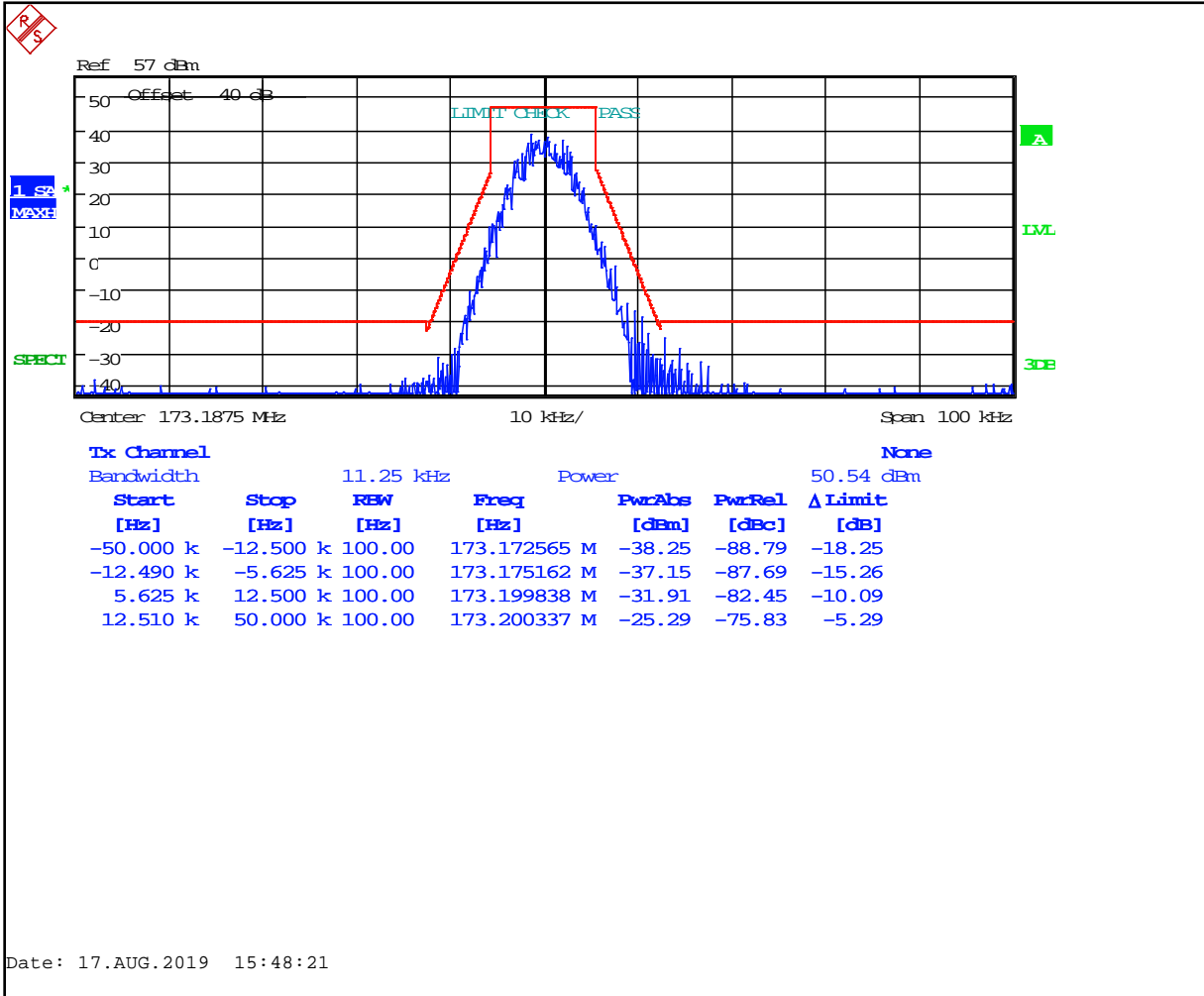
Plot 8-74: Occupied Bandwidth – 155.0125 MHz – CPM TDMA (Mask D)



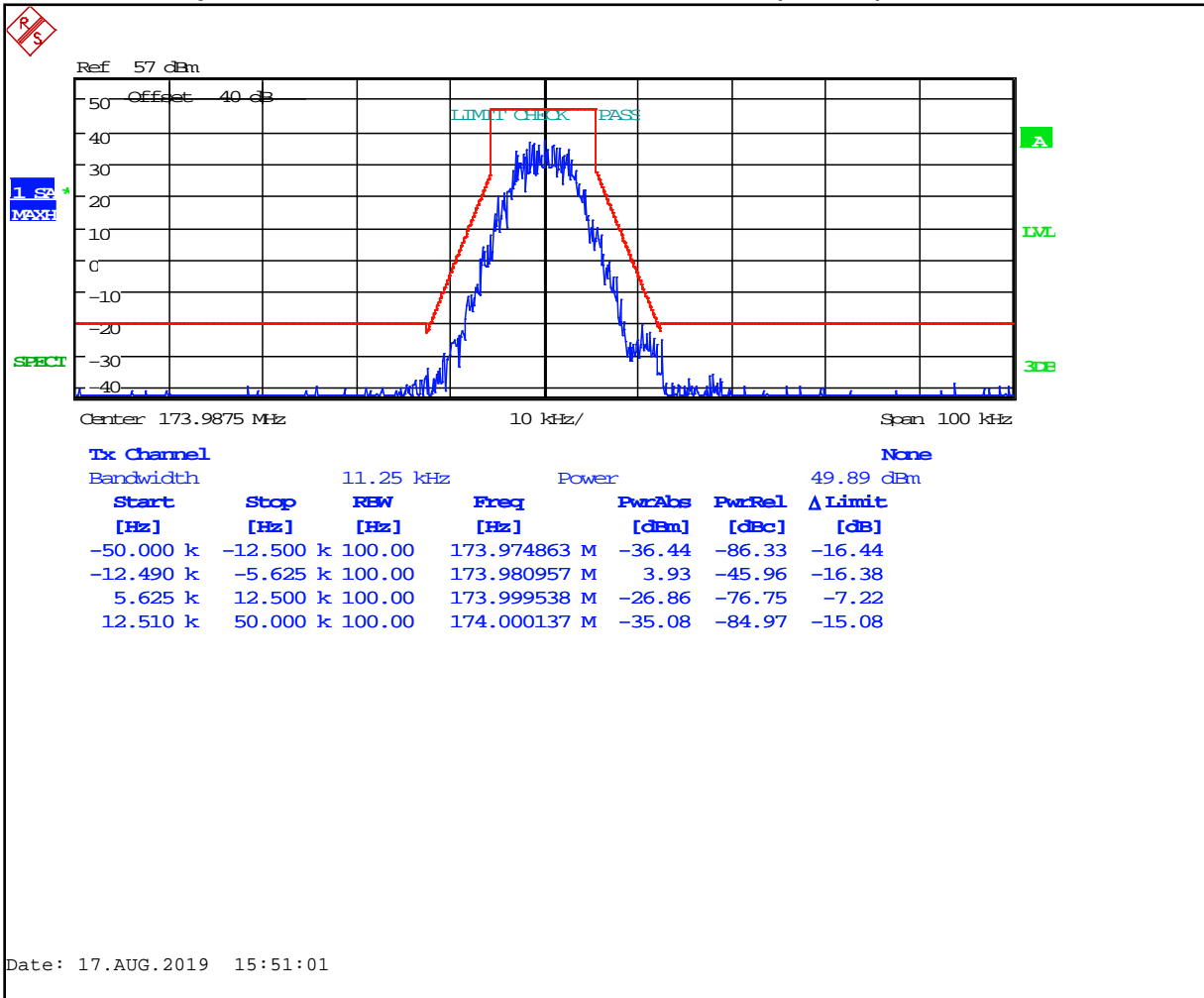
Plot 8-75: Occupied Bandwidth – 162.0000 MHz – CPM TDMA (Mask D)



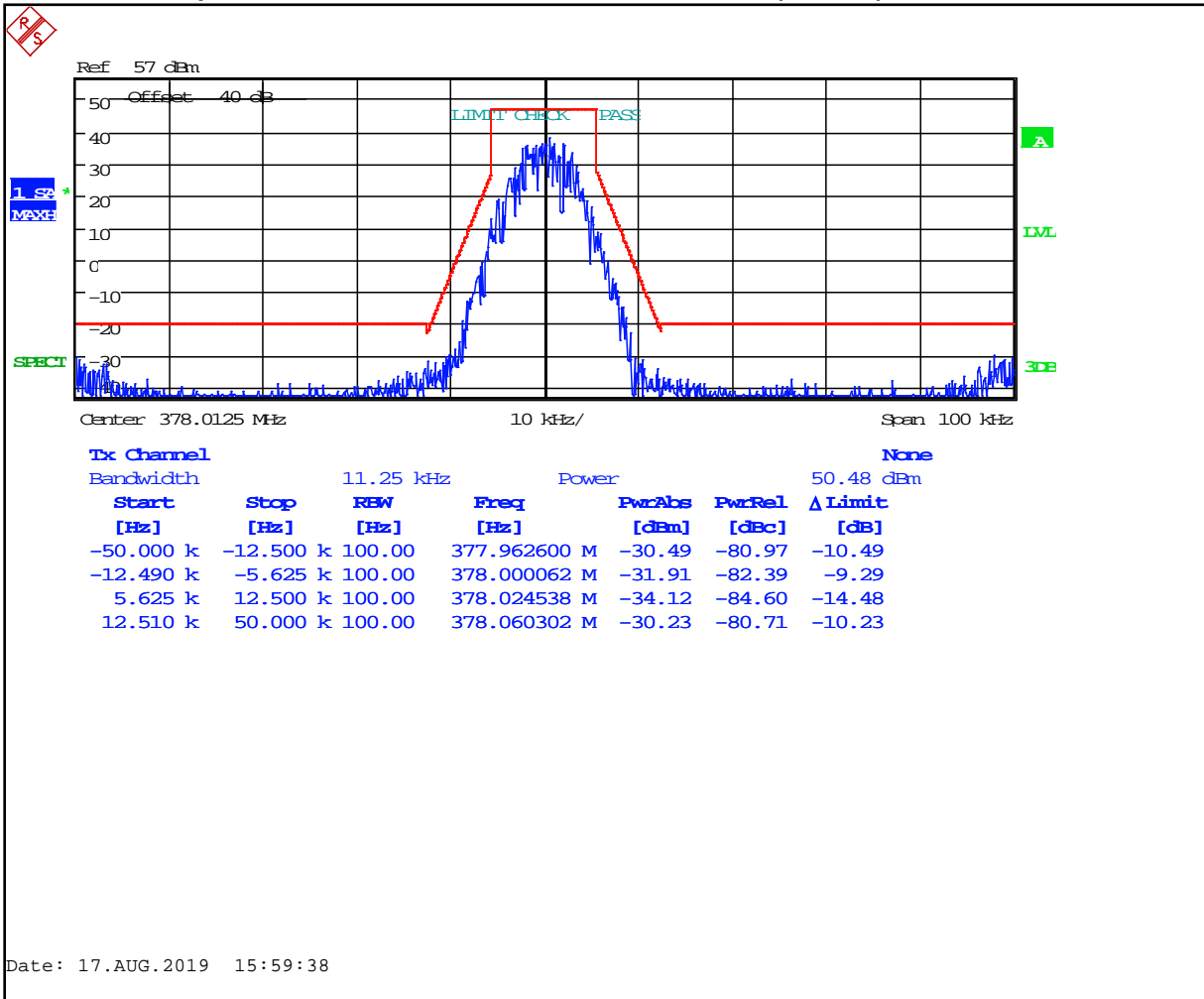
Plot 8-76: Occupied Bandwidth – 173.1875 MHz – CPM TDMA (Mask D)



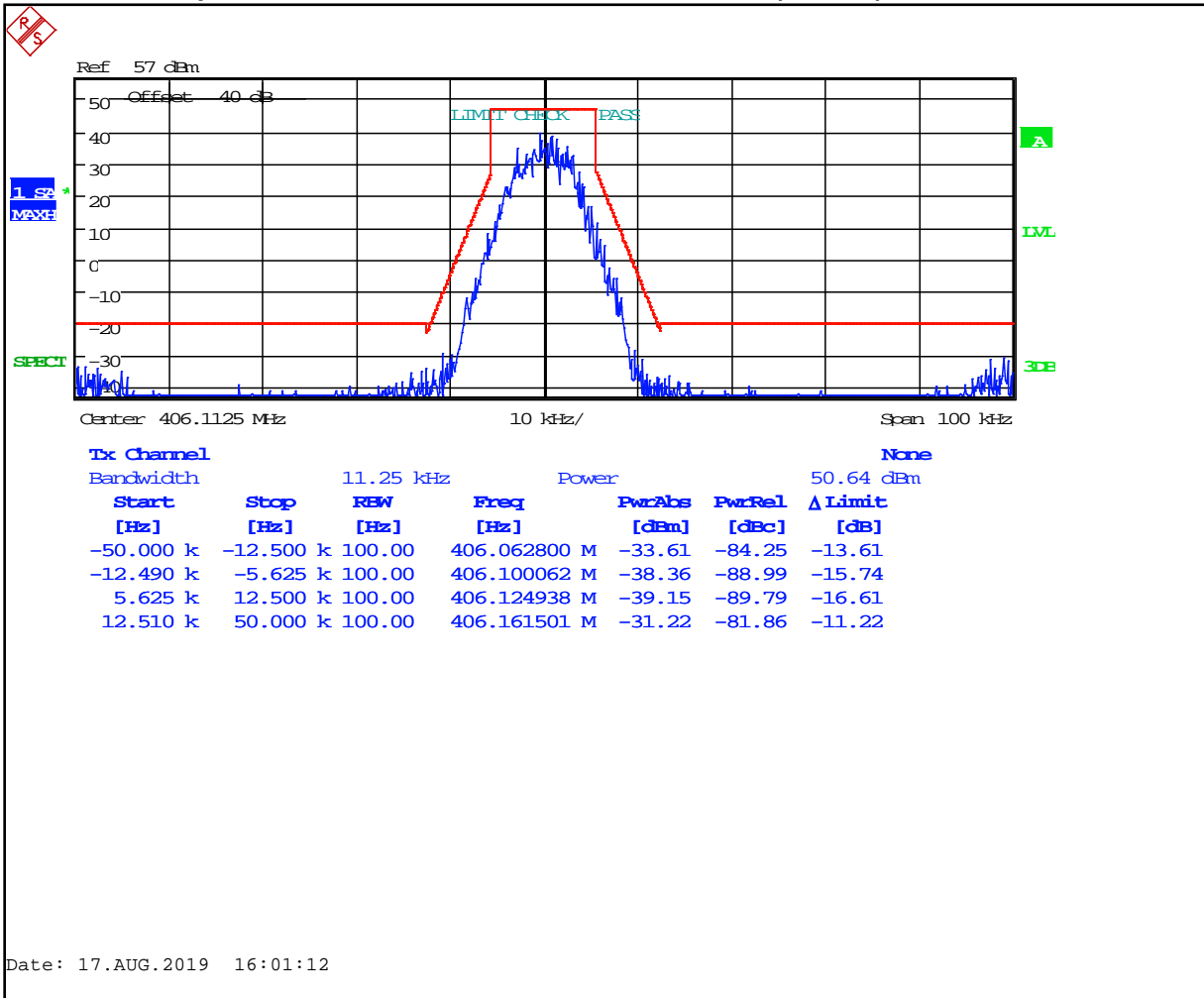
Plot 8-77: Occupied Bandwidth – 173.9875 MHz – CPM TDMA (Mask D)



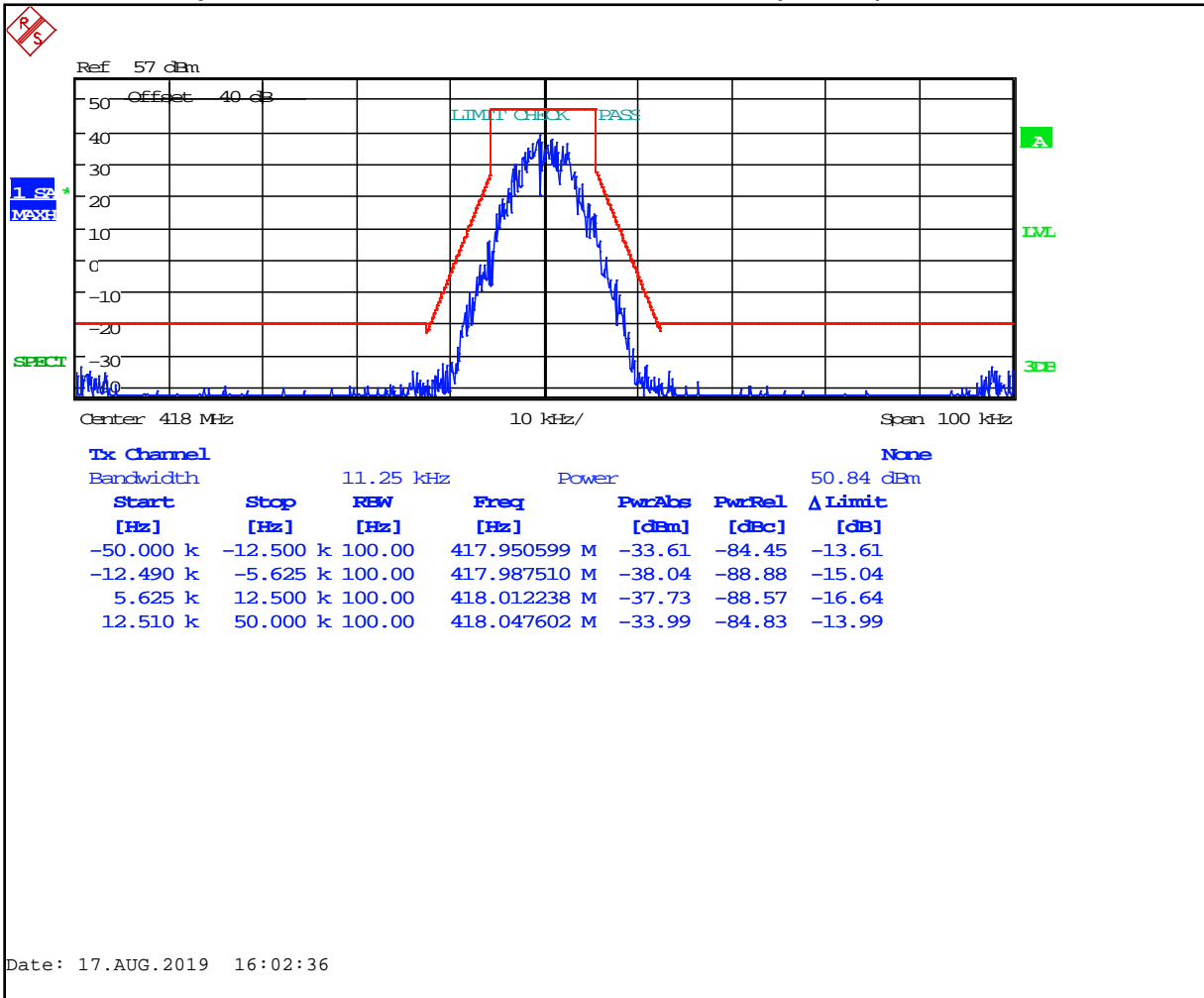
Plot 8-78: Occupied Bandwidth – 378.0125 MHz – CPM TDMA (Mask D)



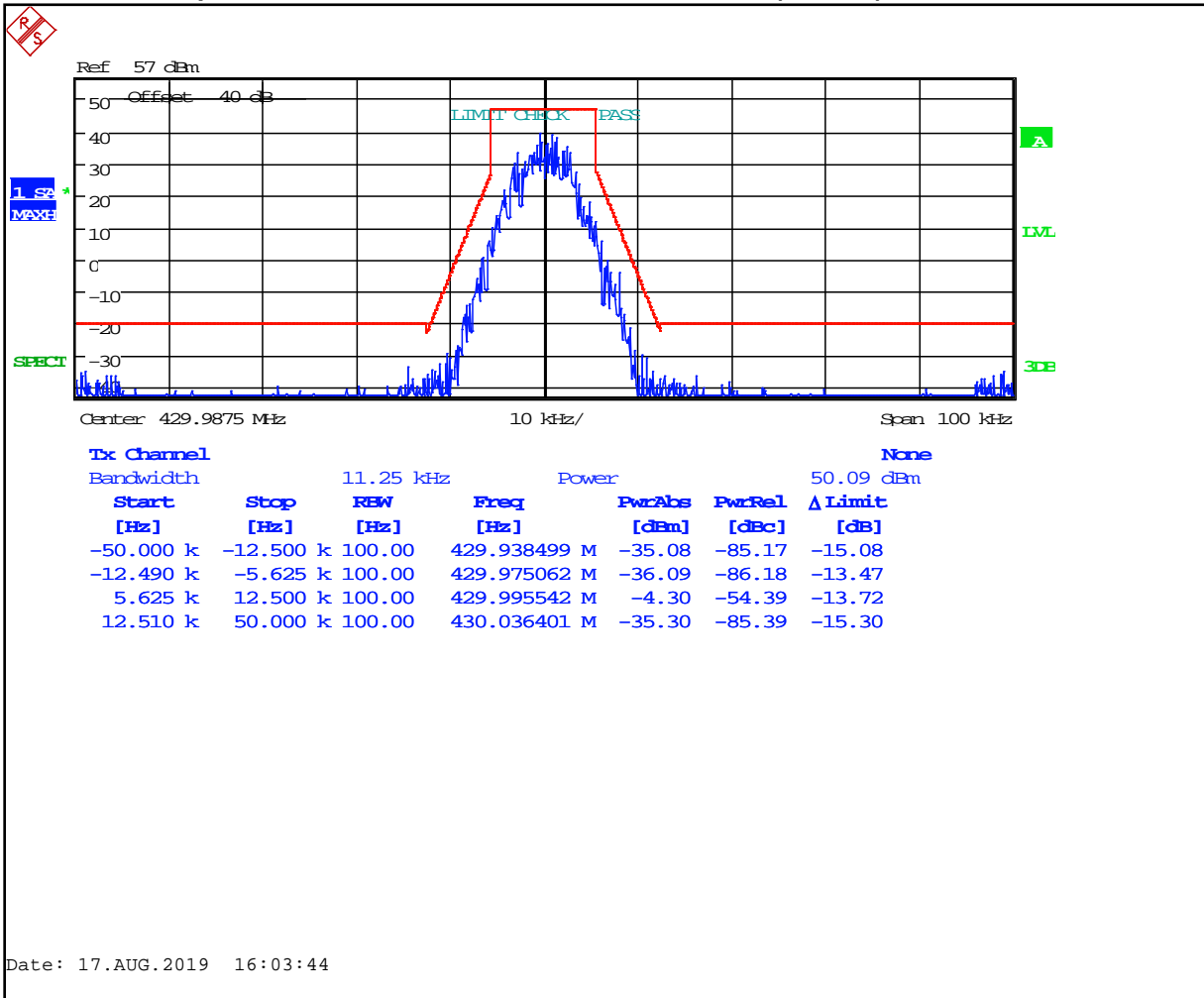
Plot 8-79: Occupied Bandwidth – 406.1125 MHz – CPM TDMA (Mask D)



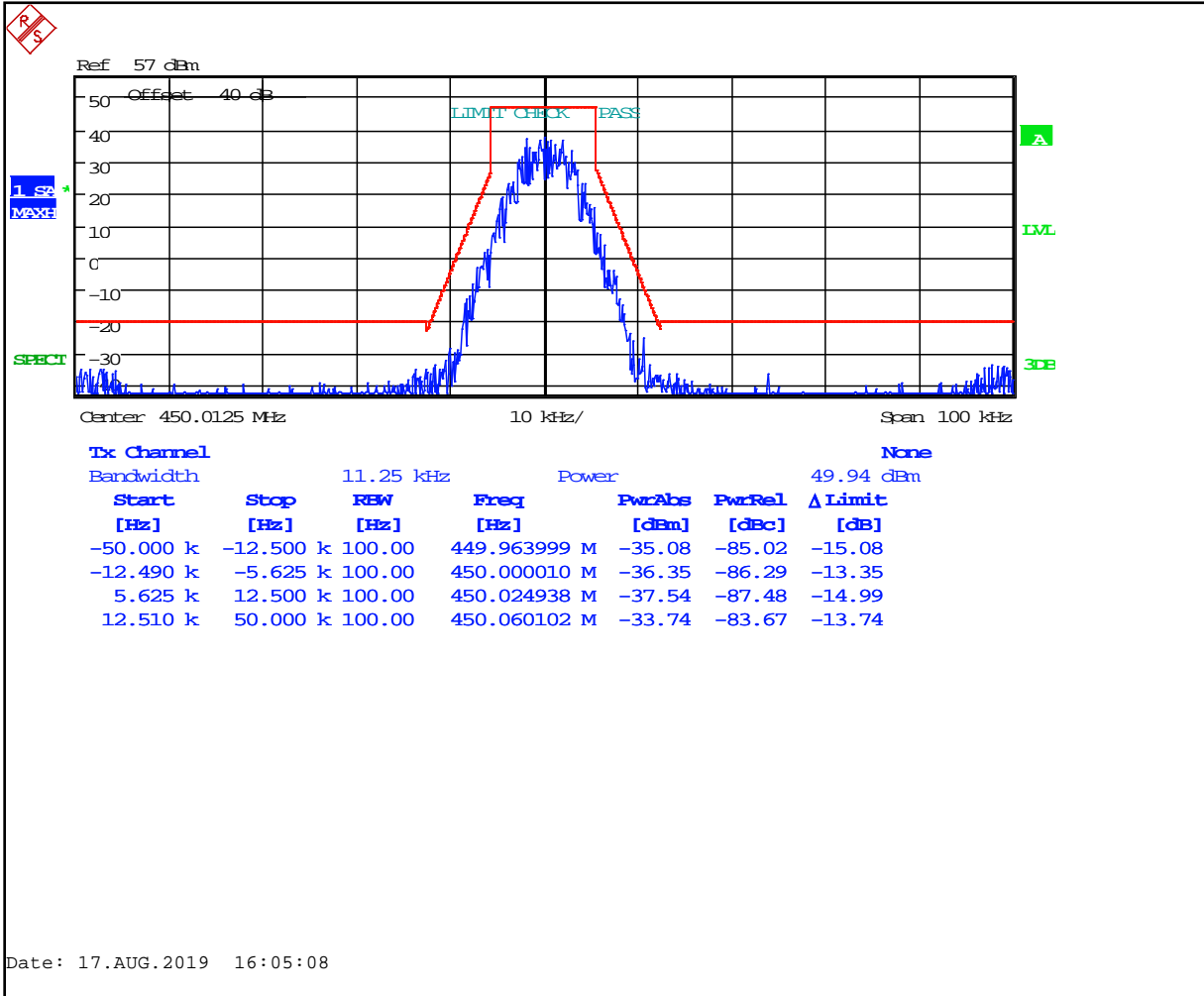
Plot 8-80: Occupied Bandwidth – 418.0000 MHz – CPM TDMA (Mask D)



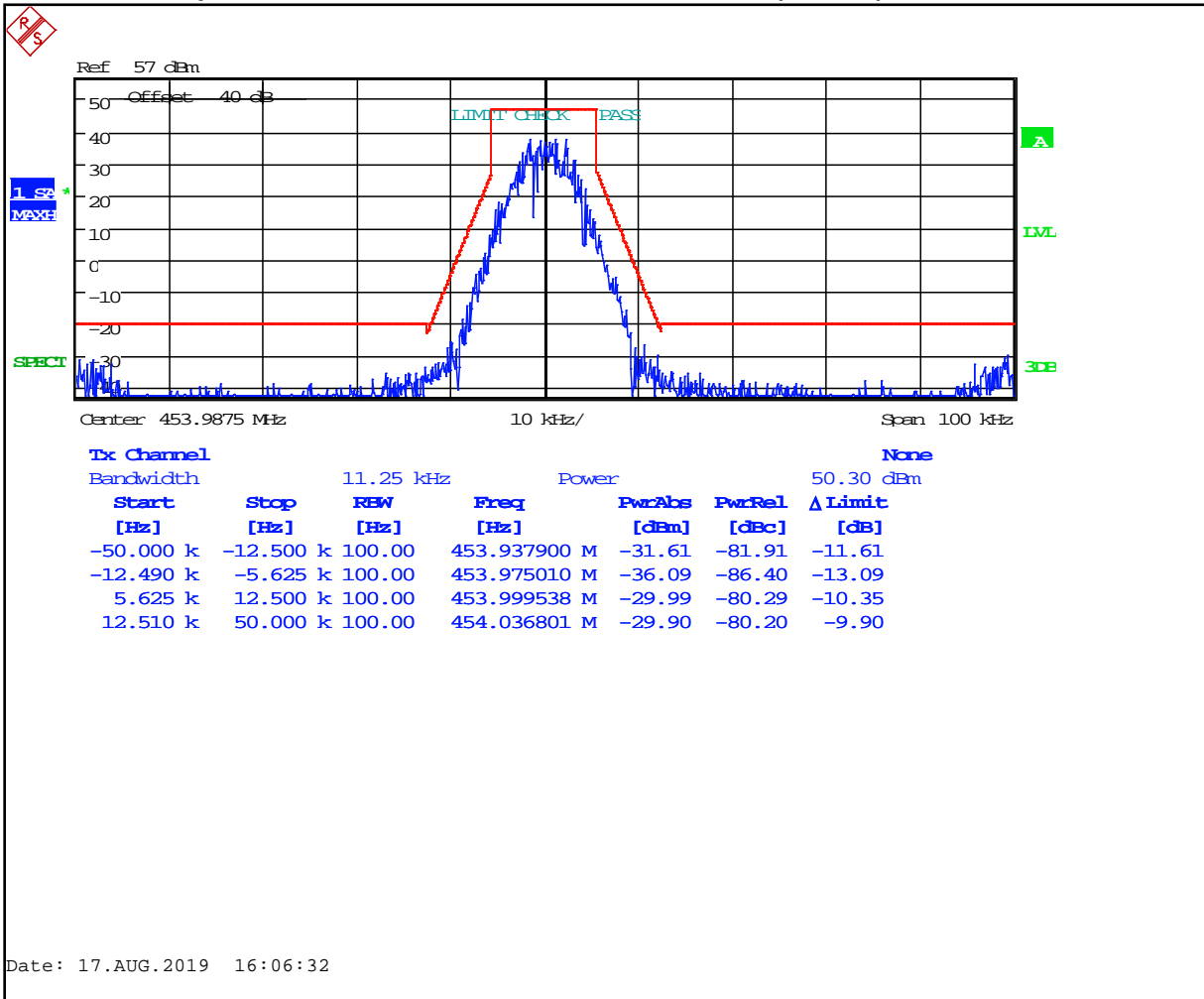
Plot 8-81: Occupied Bandwidth – 429.9875 MHz – CPM TDMA (Mask D)



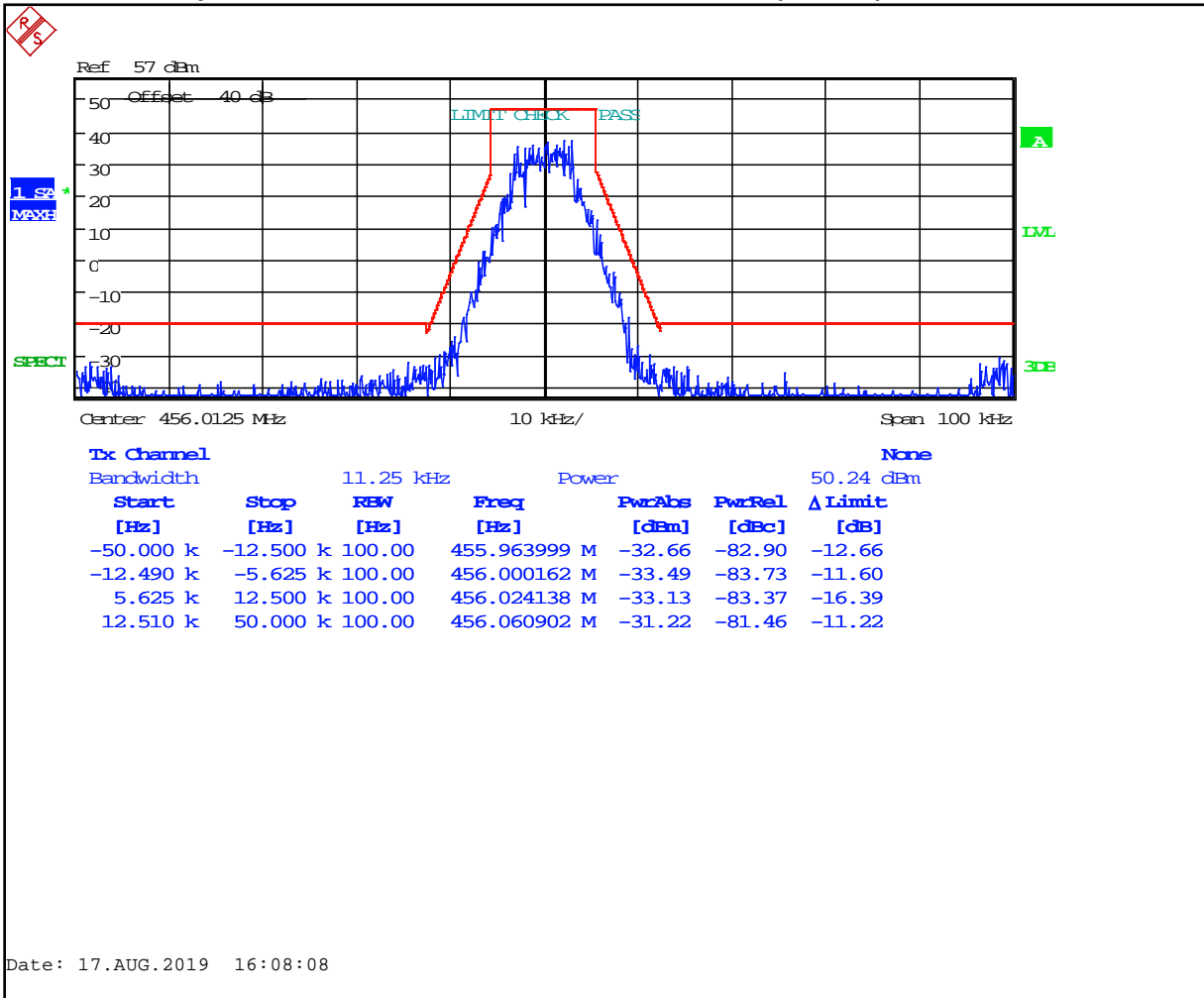
Plot 8-82: Occupied Bandwidth – 450.0125 MHz – CPM TDMA (Mask D)



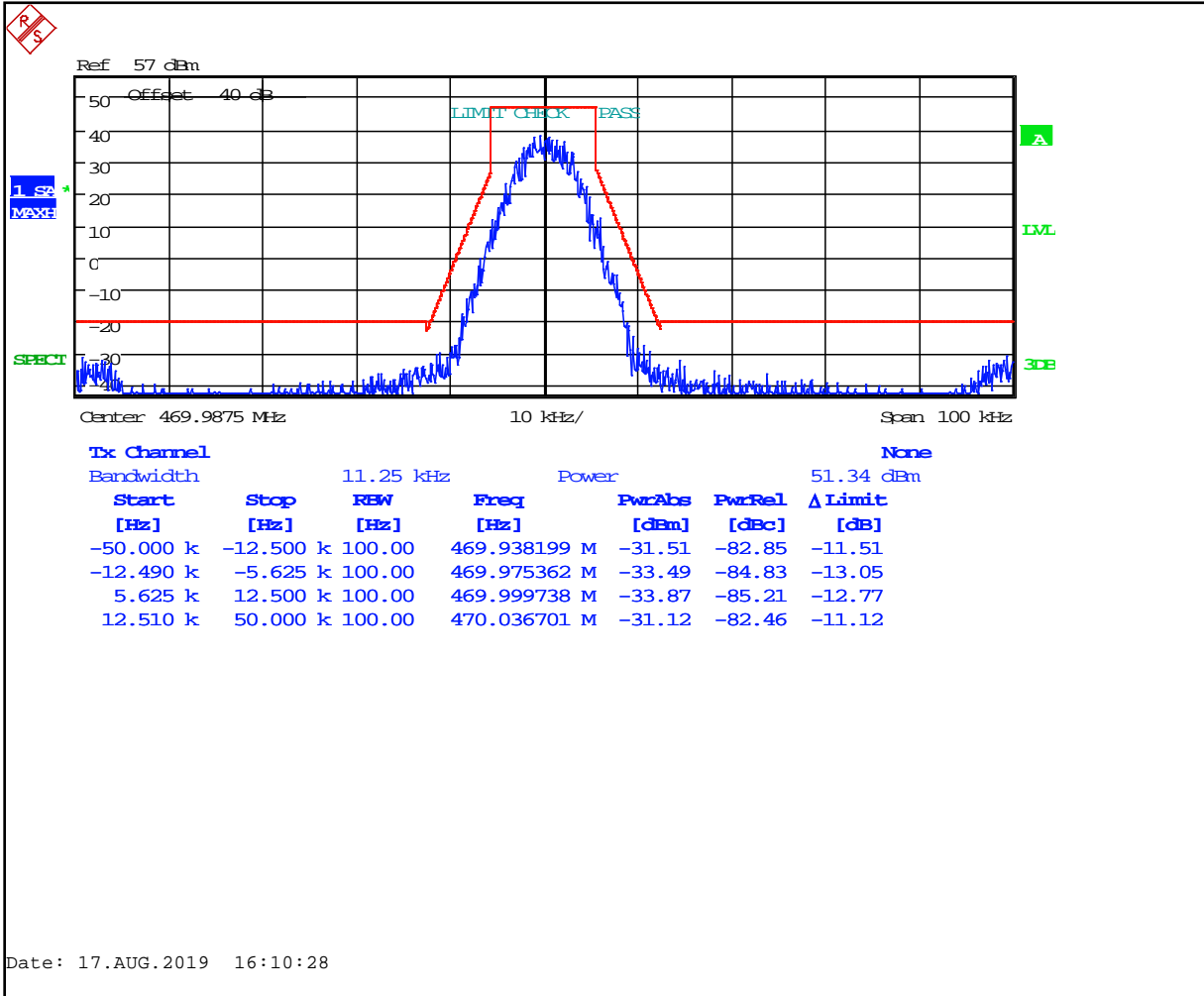
Plot 8-83: Occupied Bandwidth – 453.9875 MHz – CPM TDMA (Mask D)



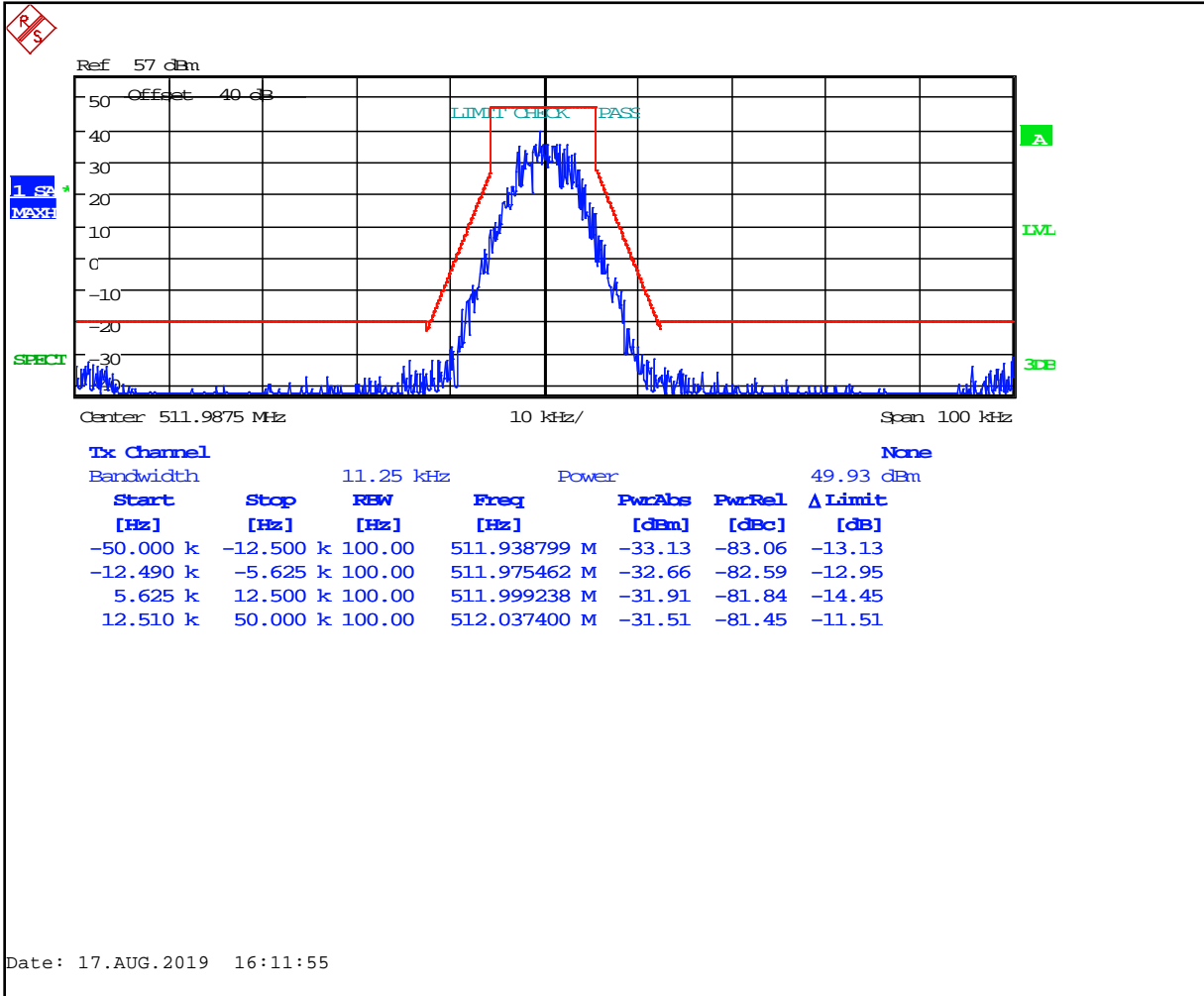
Plot 8-84: Occupied Bandwidth – 456.0125 MHz – CPM TDMA (Mask D)



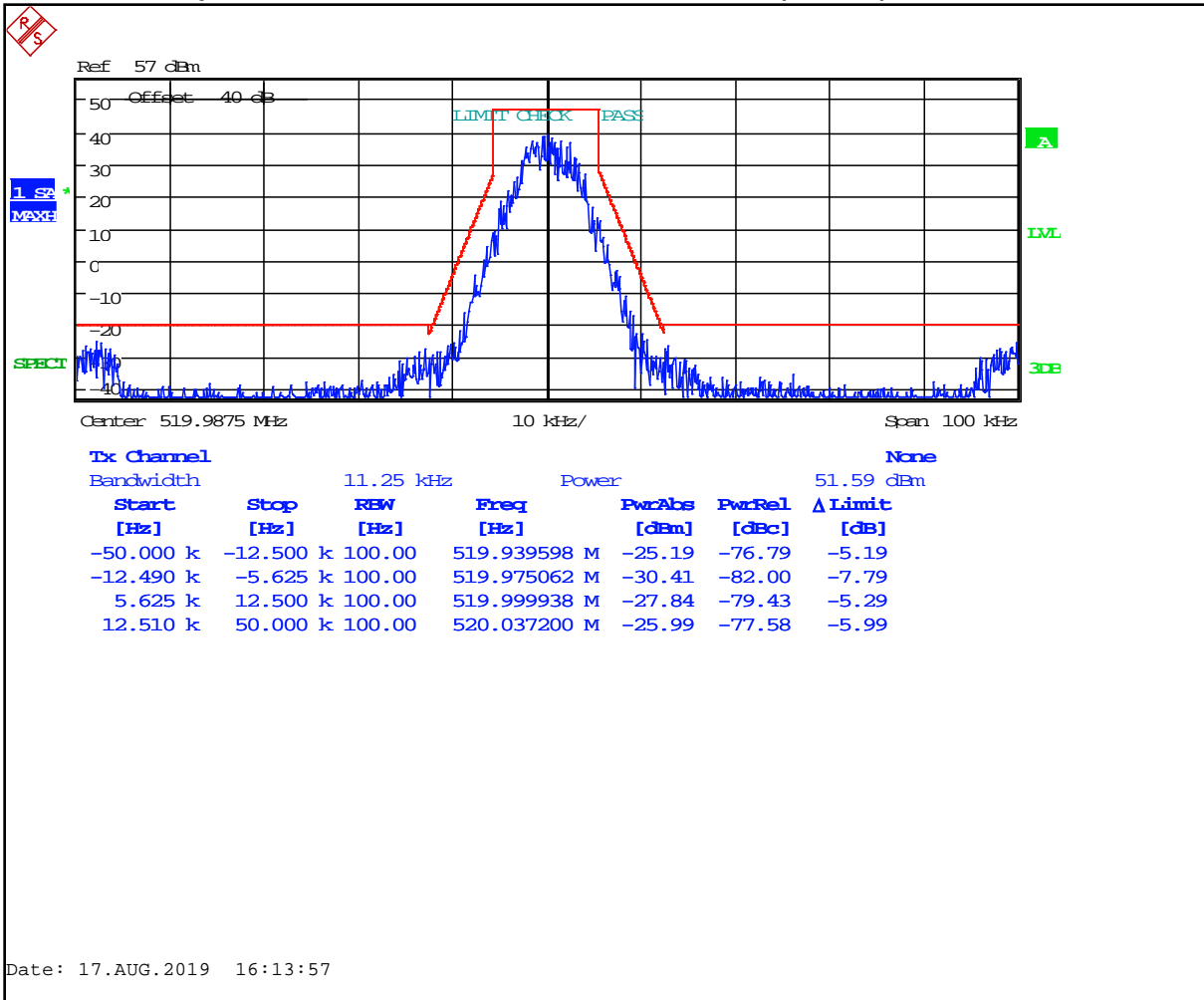
Plot 8-85: Occupied Bandwidth – 469.9875 MHz – CPM TDMA (Mask D)



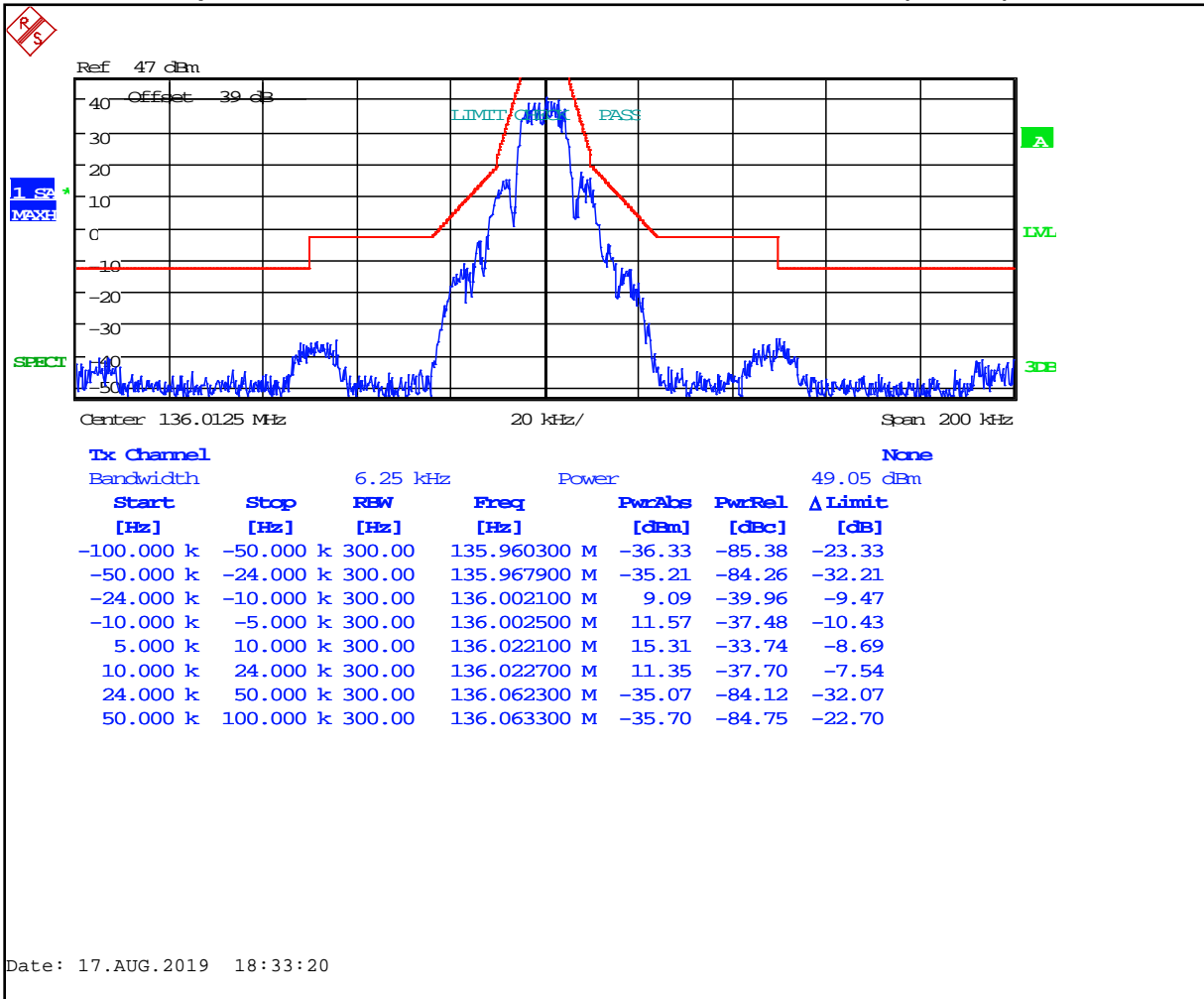
Plot 8-86: Occupied Bandwidth – 511.9875 MHz – CPM TDMA (Mask D)



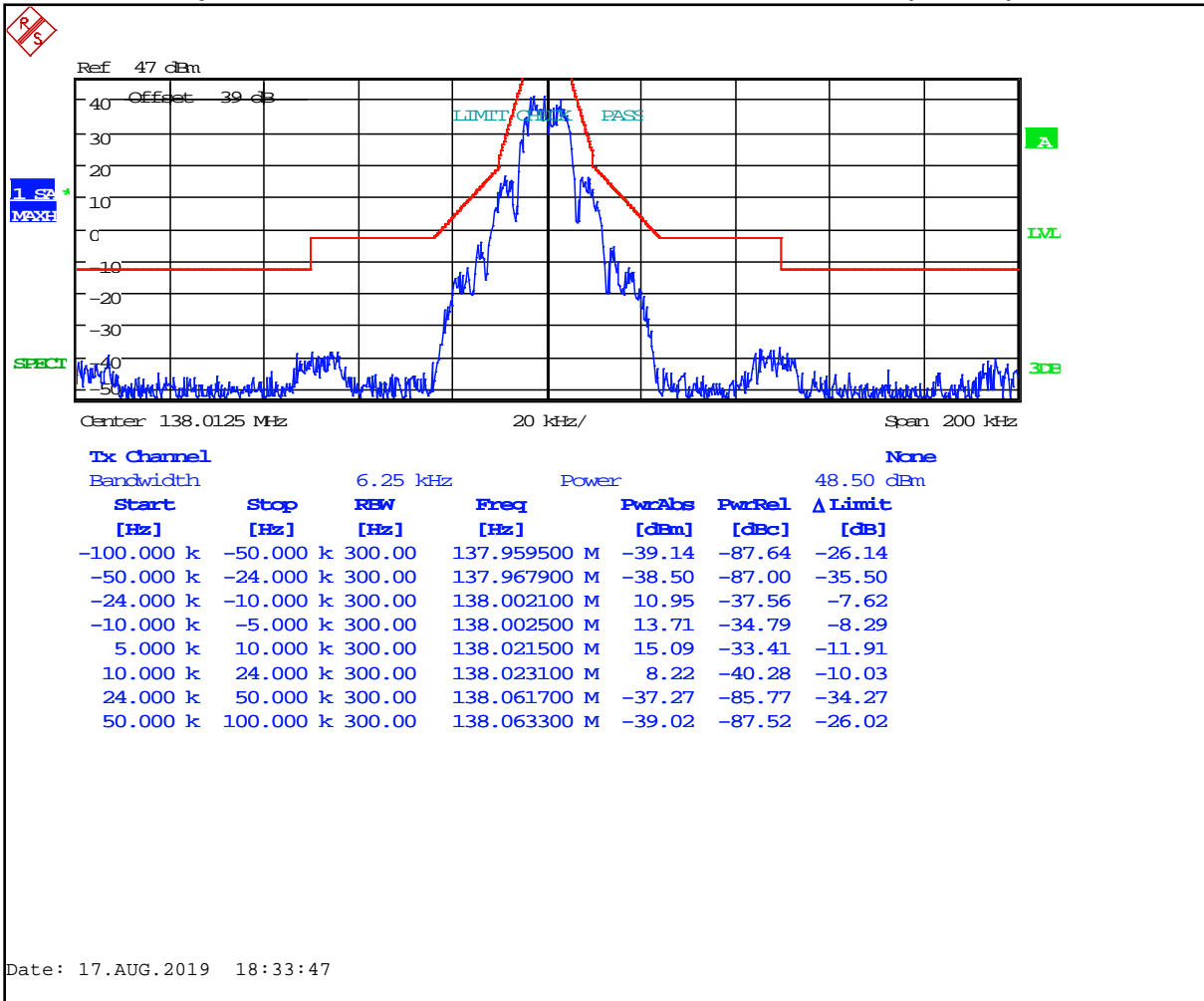
Plot 8-87: Occupied Bandwidth – 519.9875 MHz – CPM TDMA (Mask D)



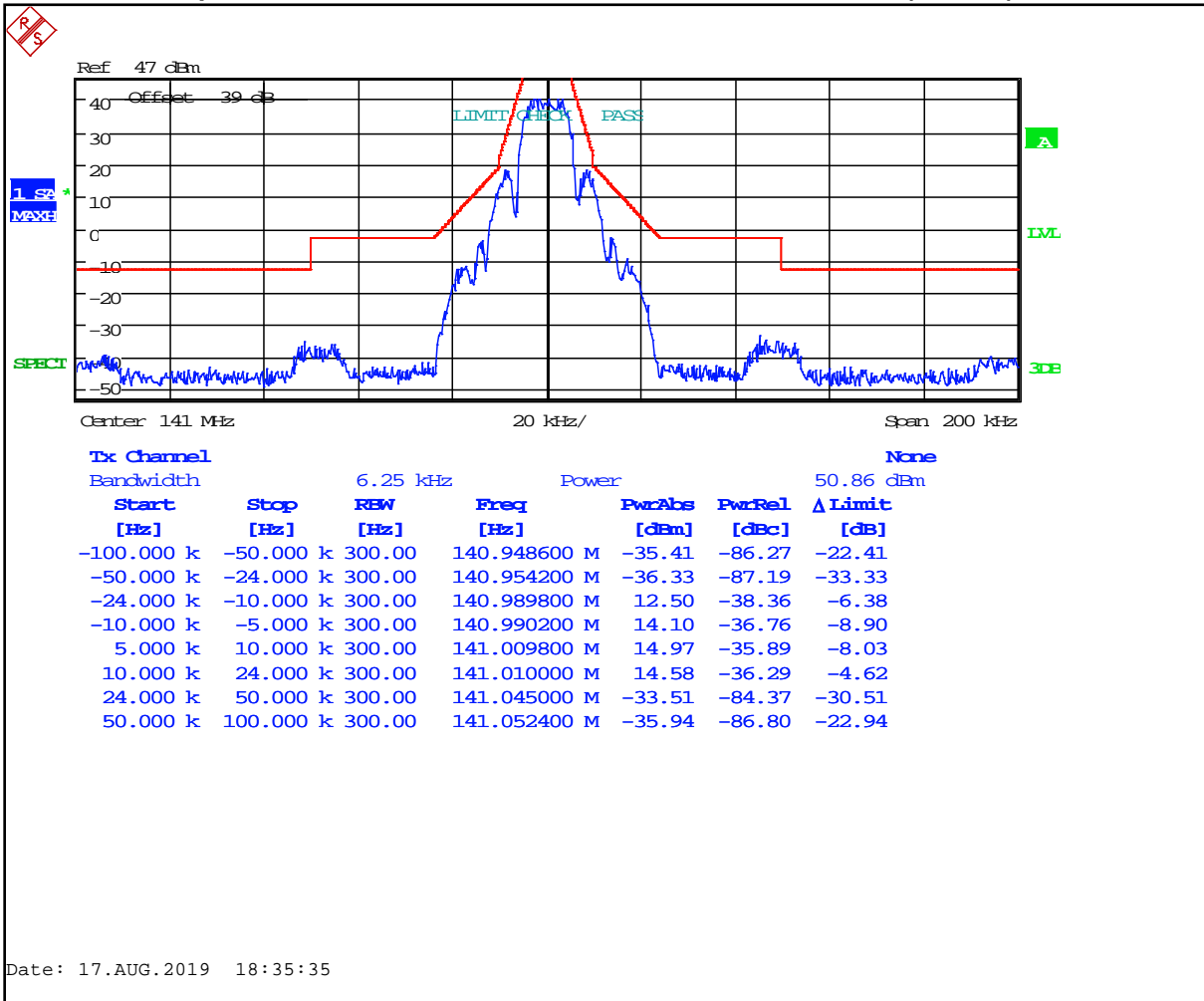
Plot 8-88: Occupied Bandwidth – 136.0125 MHz – 2-Level FSK 9600 WB (Mask C)



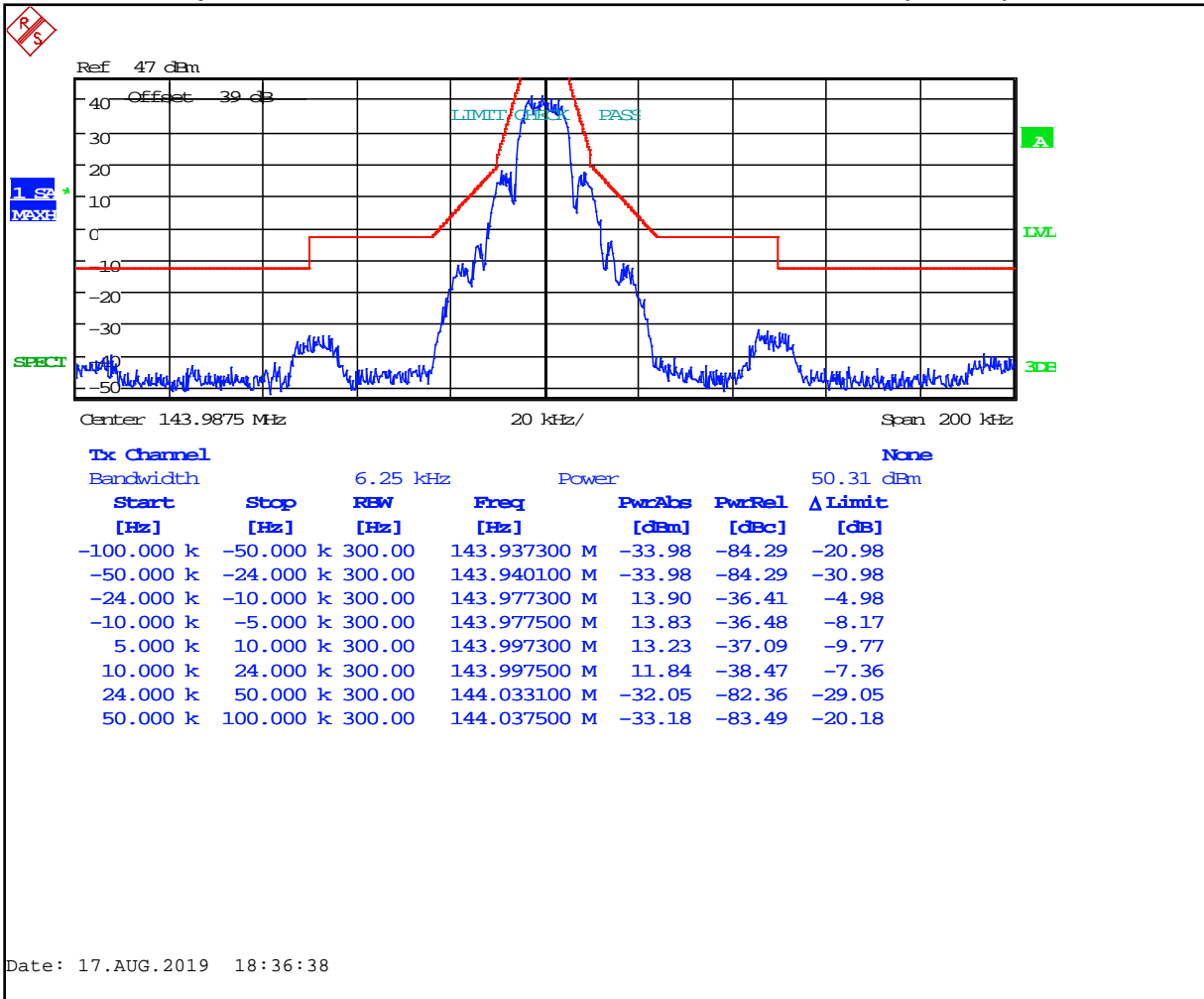
Plot 8-89: Occupied Bandwidth – 138.0125 MHz – 2-Level FSK 9600 WB (Mask C)



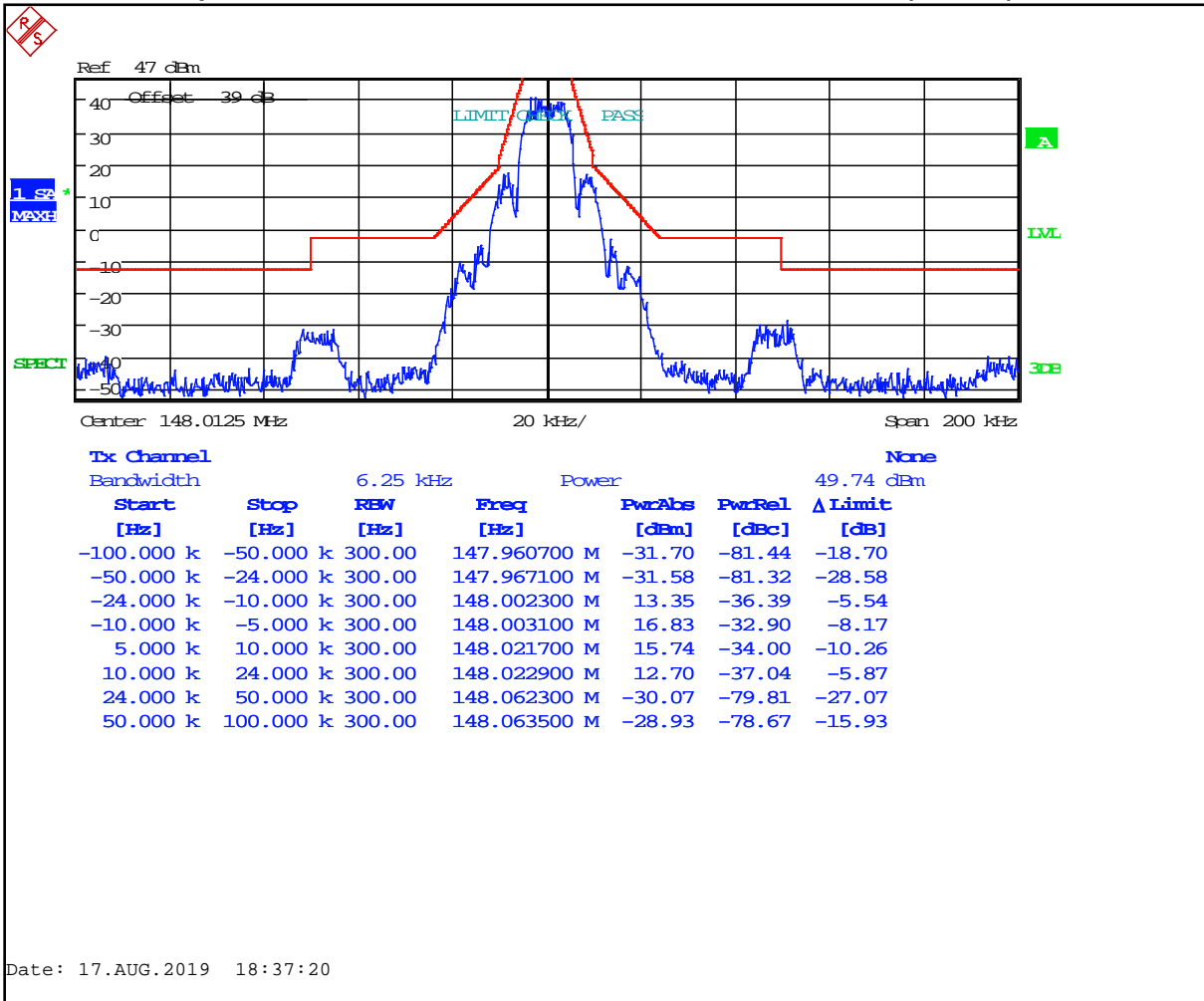
Plot 8-90: Occupied Bandwidth – 141.0000 MHz – 2-Level FSK 9600 WB (Mask C)



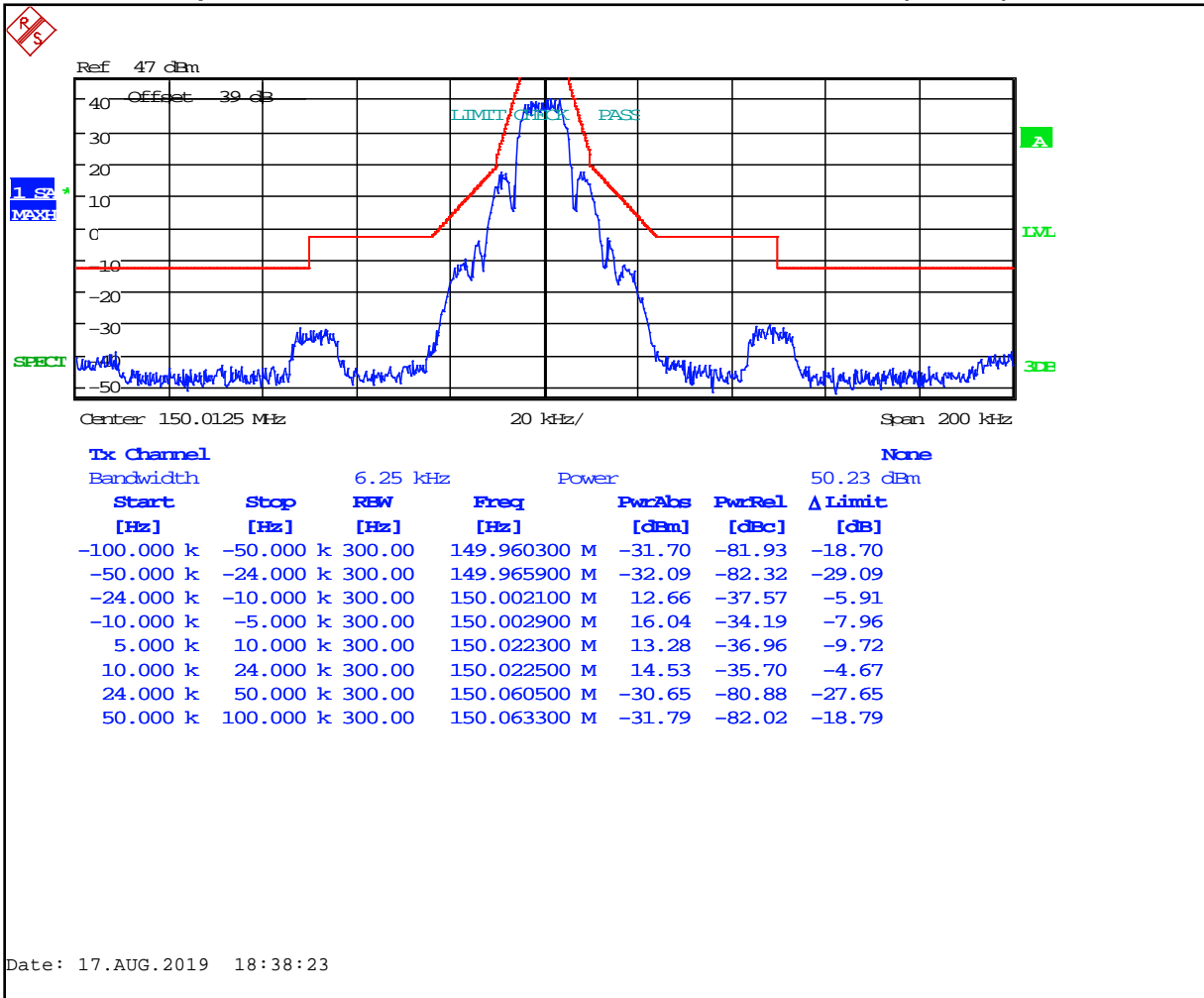
Plot 8-91: Occupied Bandwidth – 143.9875 MHz – 2-Level FSK 9600 WB (Mask C)



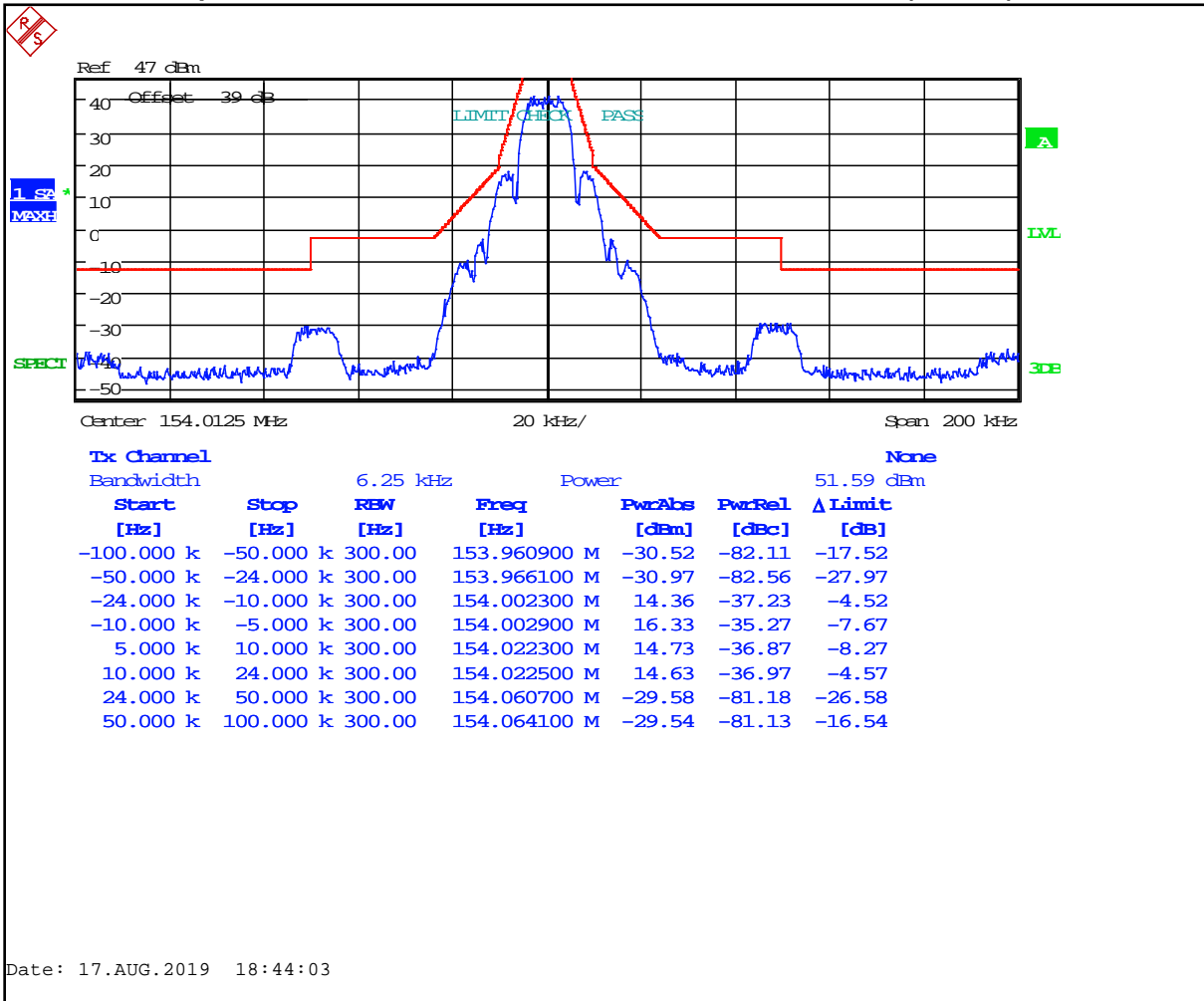
Plot 8-92: Occupied Bandwidth – 148.0125 MHz – 2-Level FSK 9600 WB (Mask C)



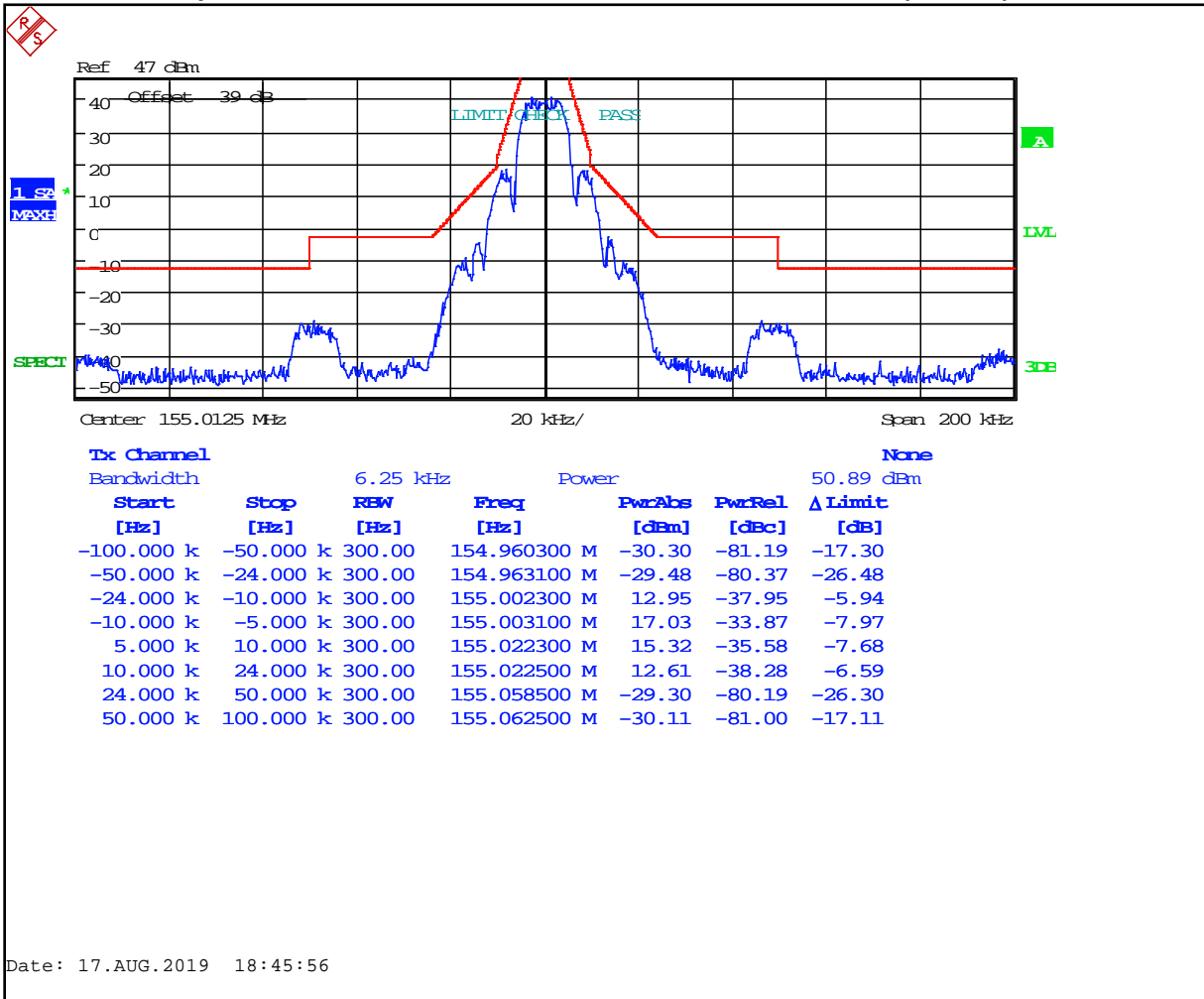
Plot 8-93: Occupied Bandwidth – 150.0125 MHz – 2-Level FSK 9600 WB (Mask C)



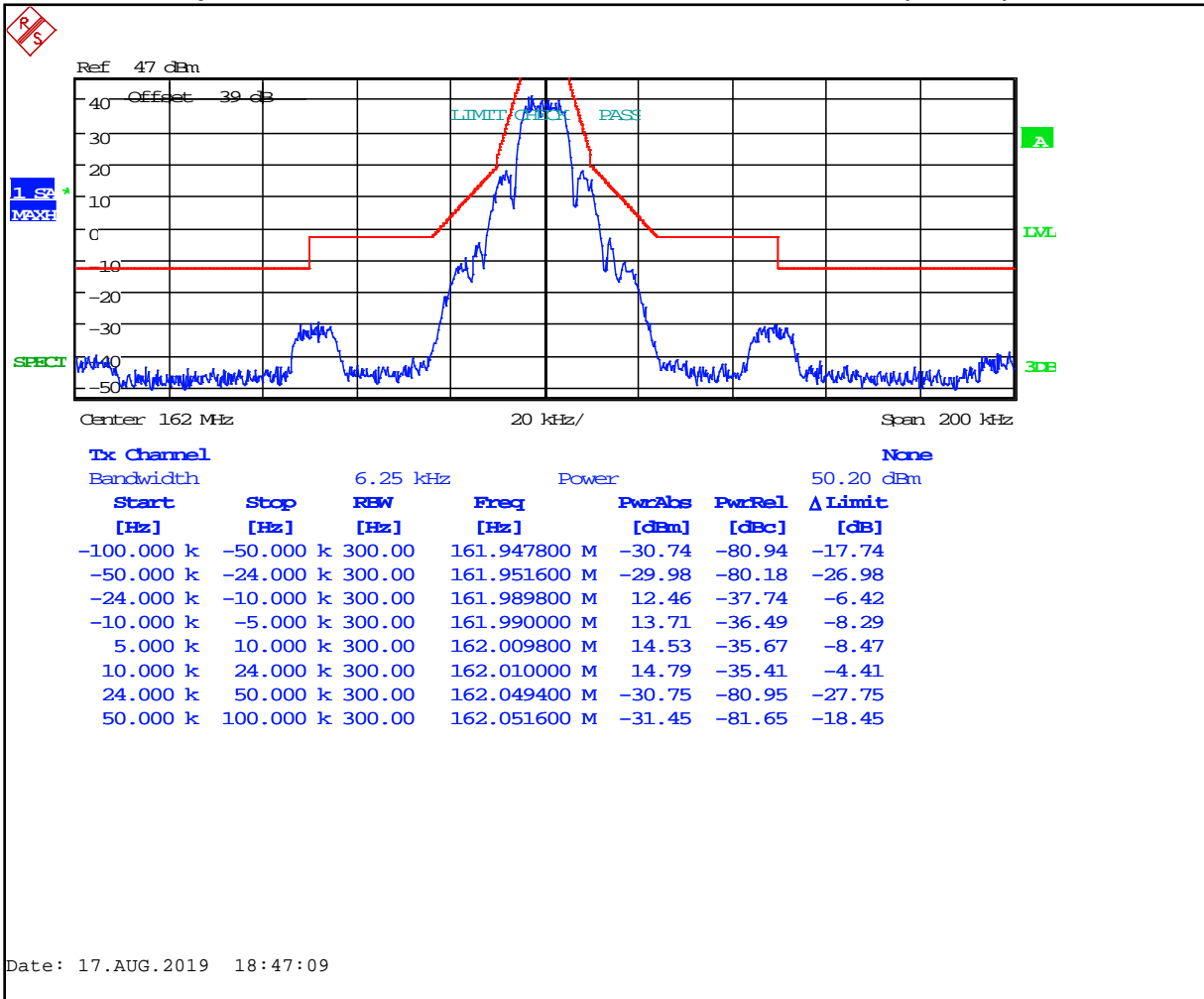
Plot 8-94: Occupied Bandwidth – 154.0125 MHz – 2-Level FSK 9600 WB (Mask C)



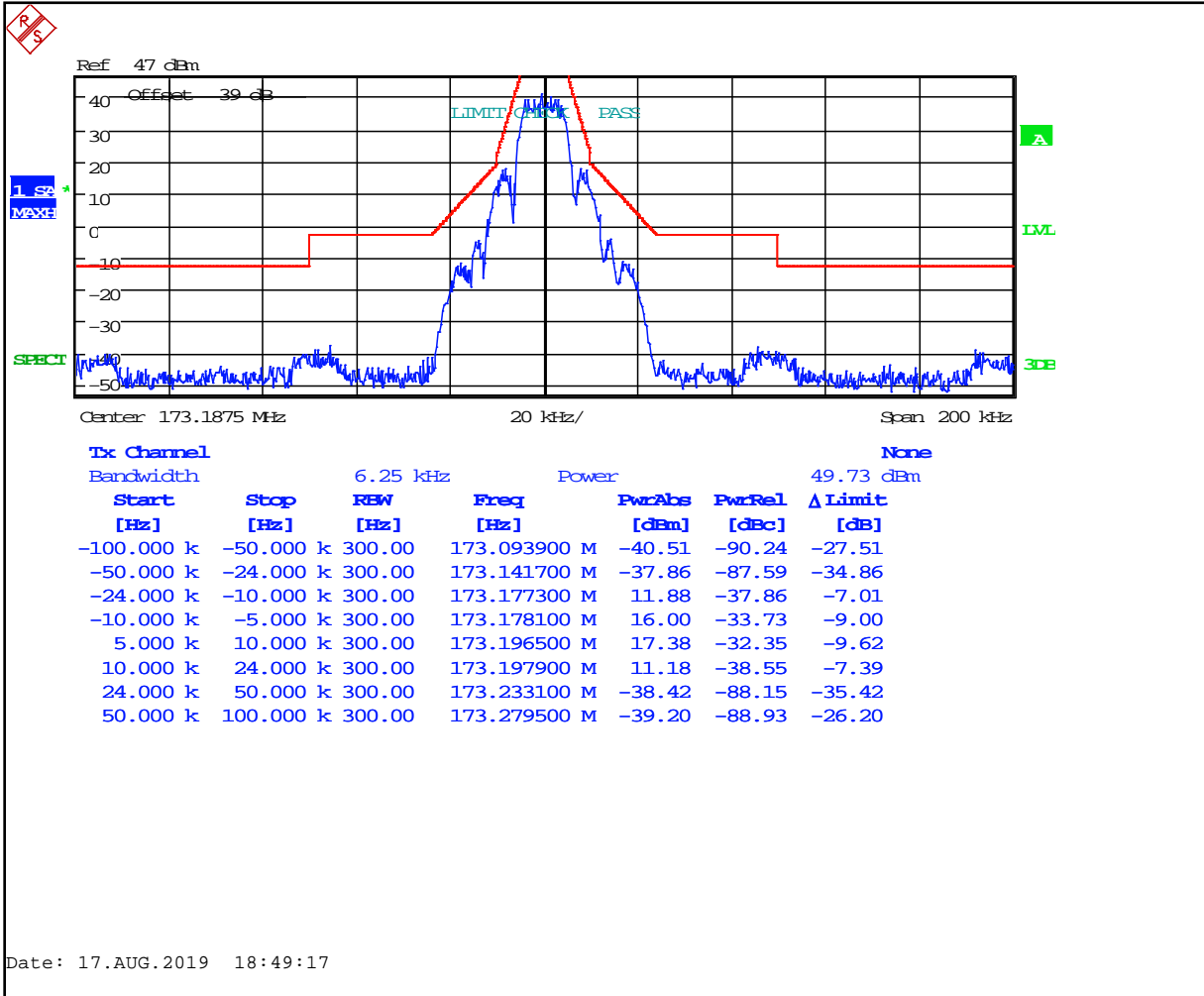
Plot 8-95: Occupied Bandwidth – 155.0125 MHz – 2-Level FSK 9600 WB (Mask C)



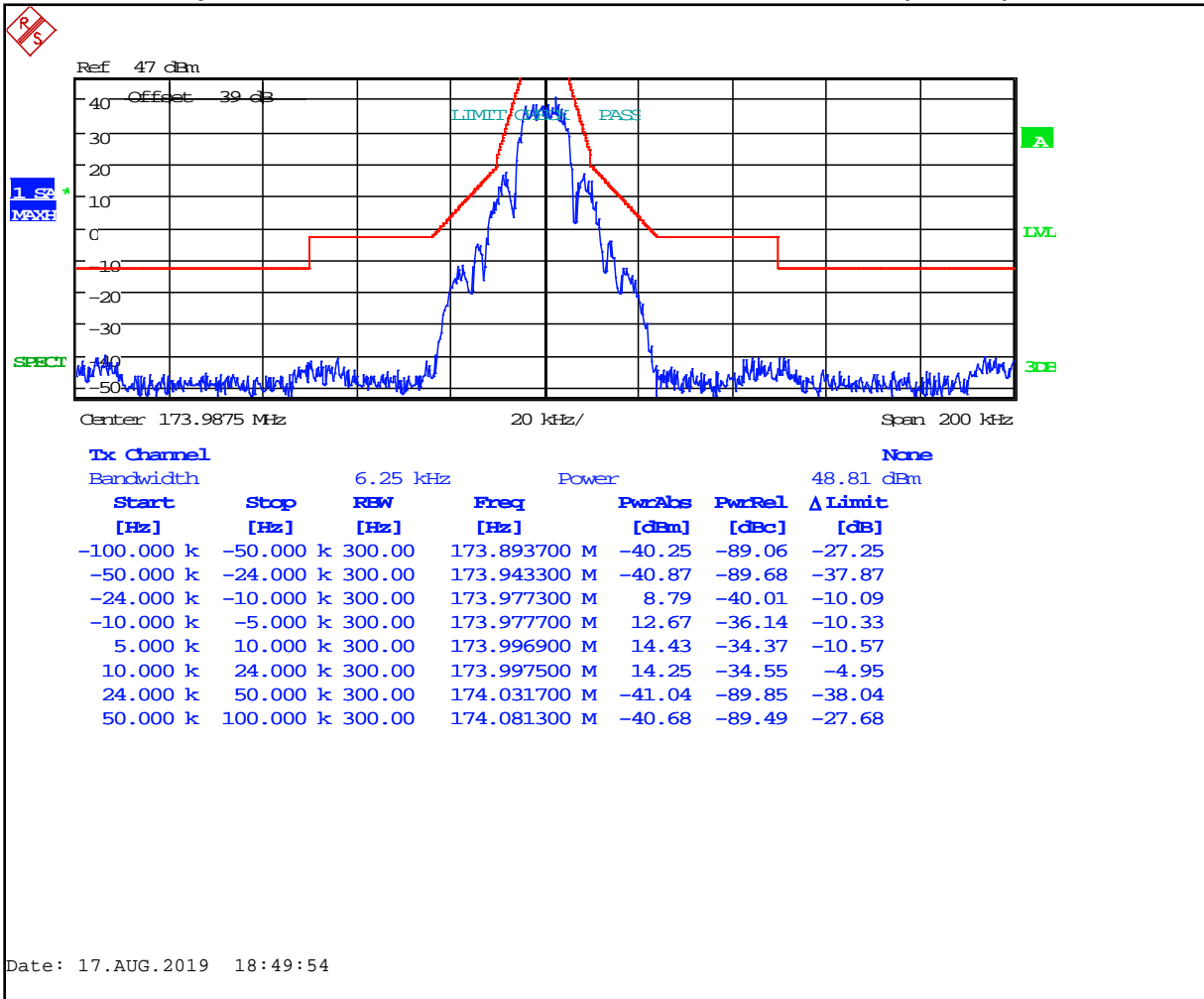
Plot 8-96: Occupied Bandwidth – 162.0000 MHz – 2-Level FSK 9600 WB (Mask C)



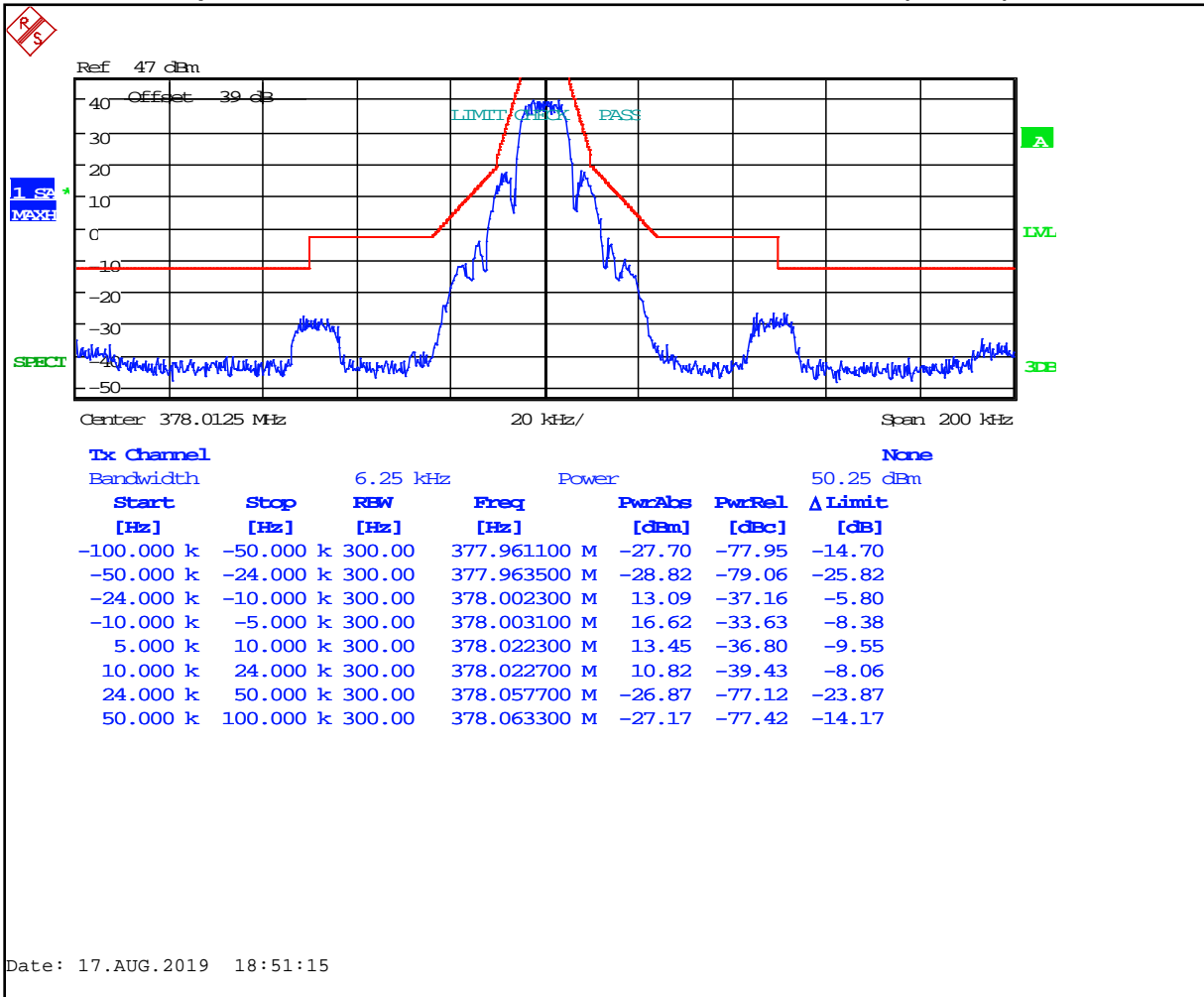
Plot 8-97: Occupied Bandwidth – 173.1875 MHz – 2-Level FSK 9600 WB (Mask C)



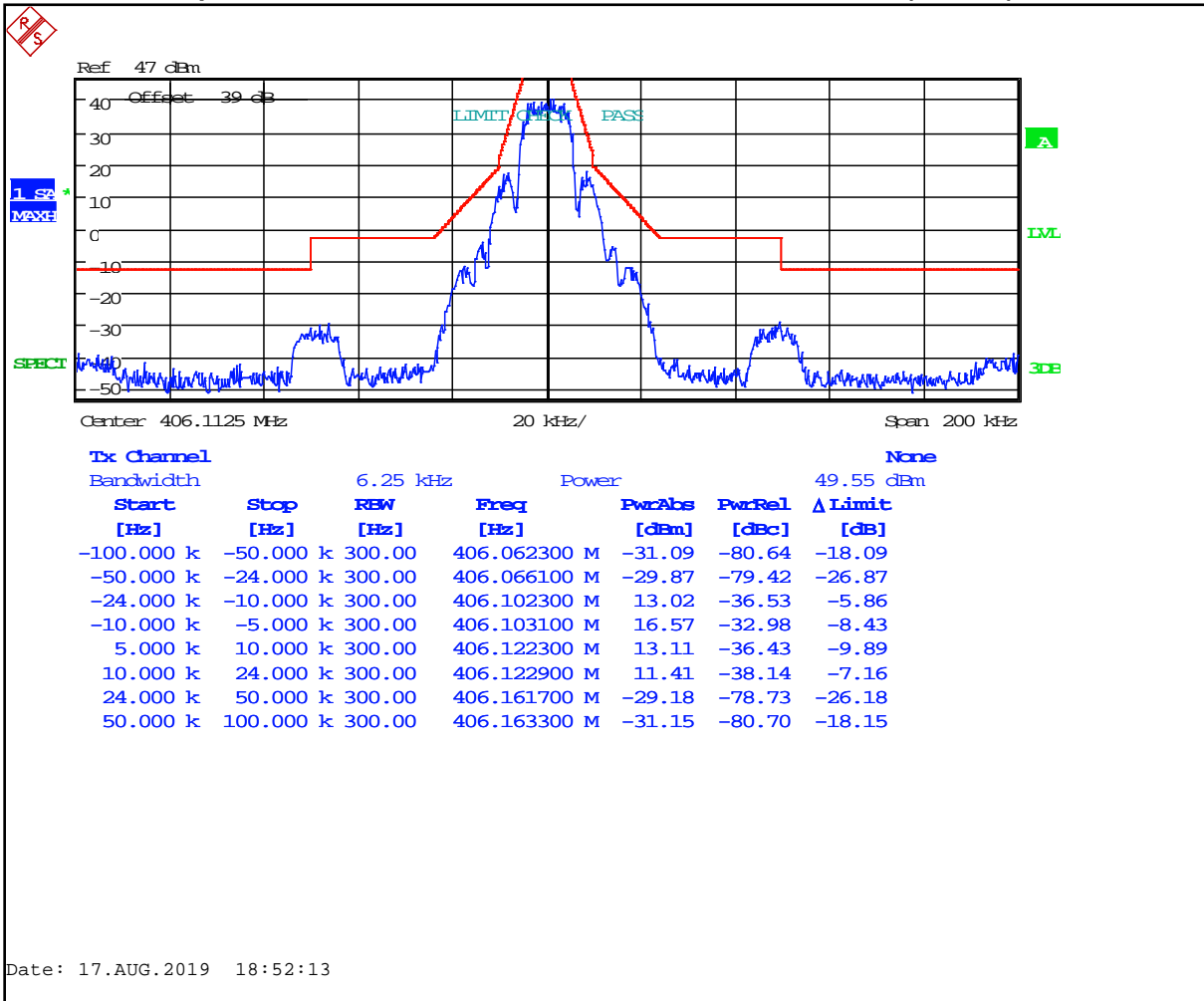
Plot 8-98: Occupied Bandwidth – 173.9875 MHz – 2-Level FSK 9600 WB (Mask C)



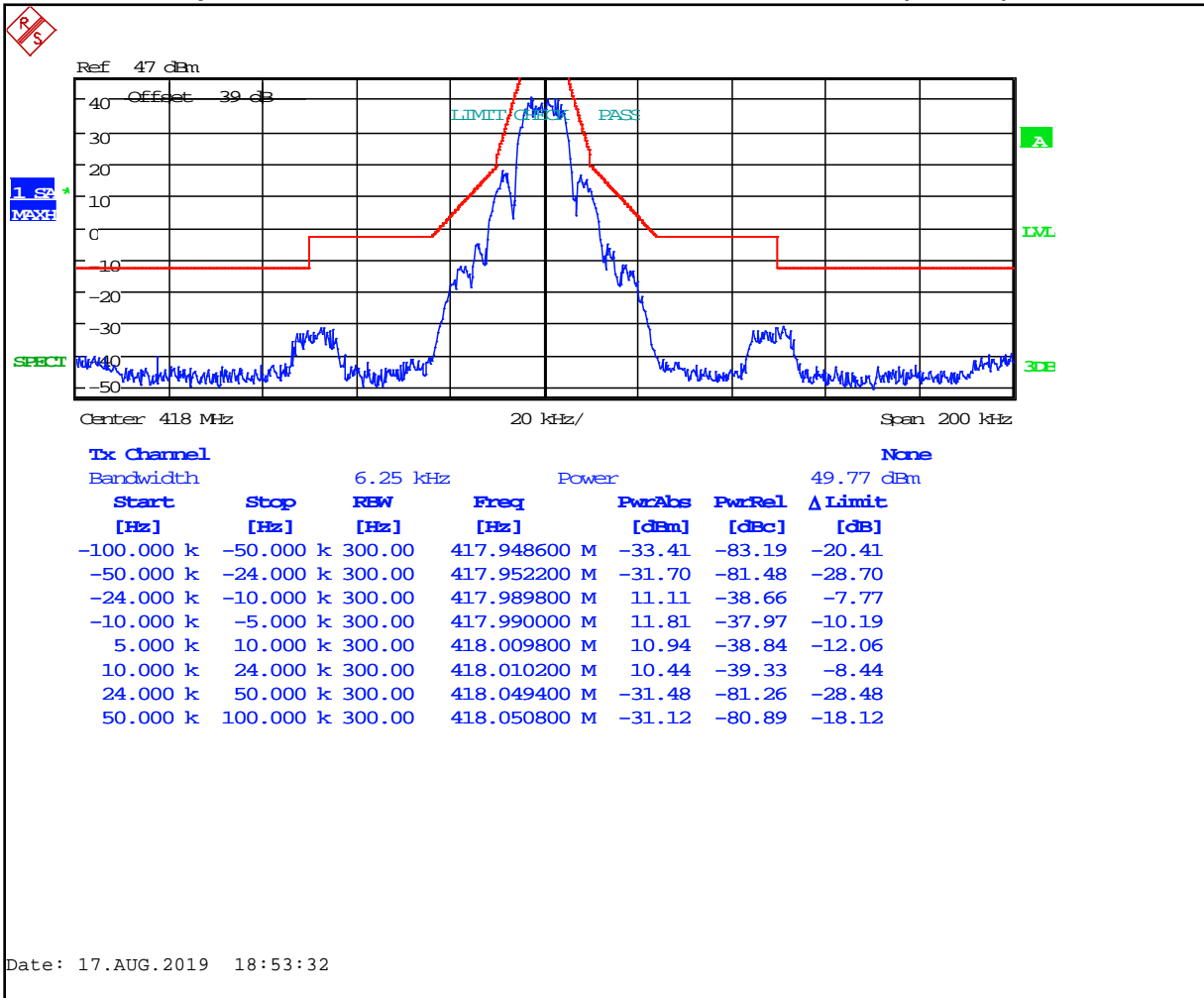
Plot 8-99: Occupied Bandwidth – 378.0125 MHz – 2-Level FSK 9600 WB (Mask C)



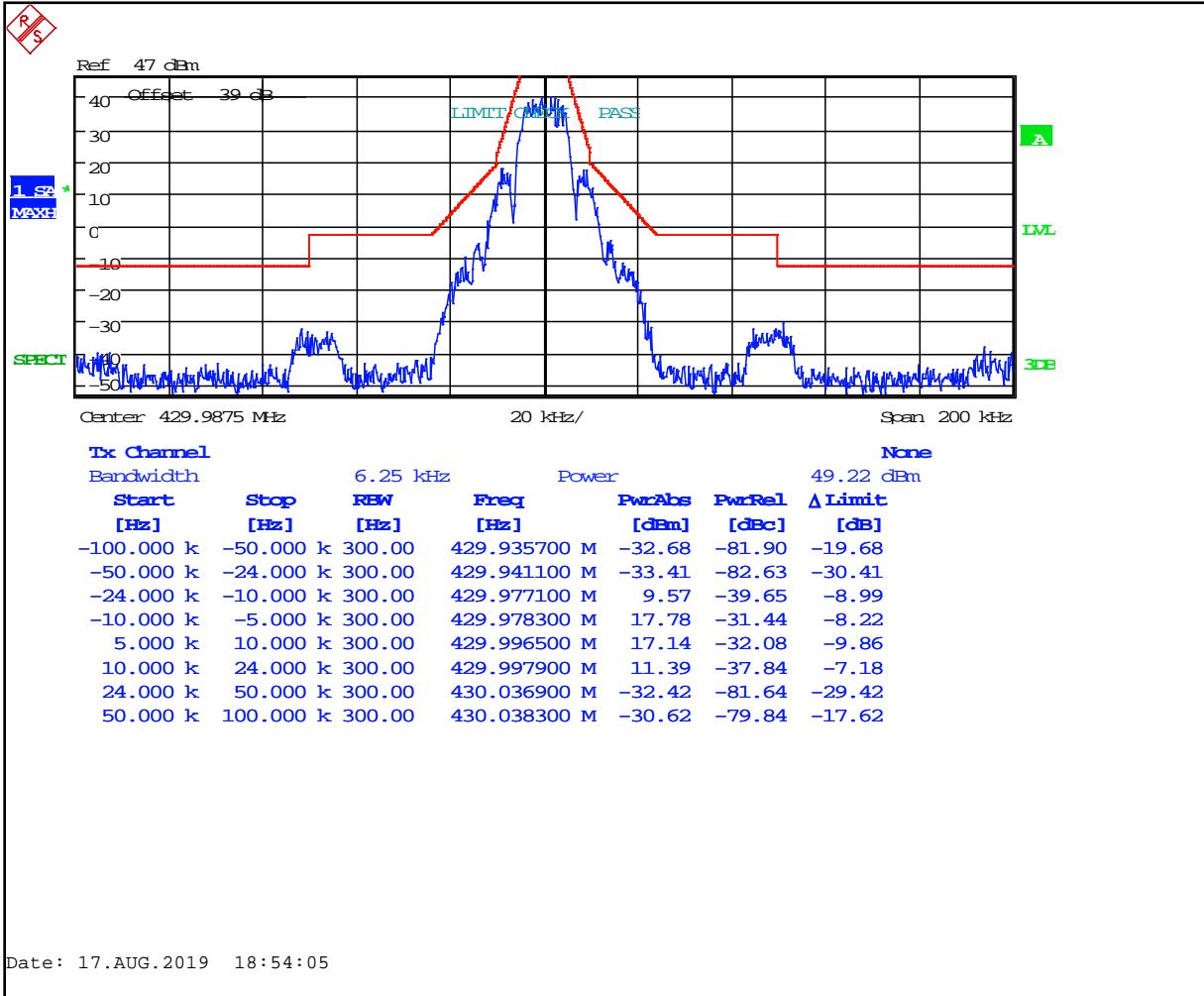
Plot 8-100: Occupied Bandwidth – 406.1125 MHz – 2-Level FSK 9600 WB (Mask C)



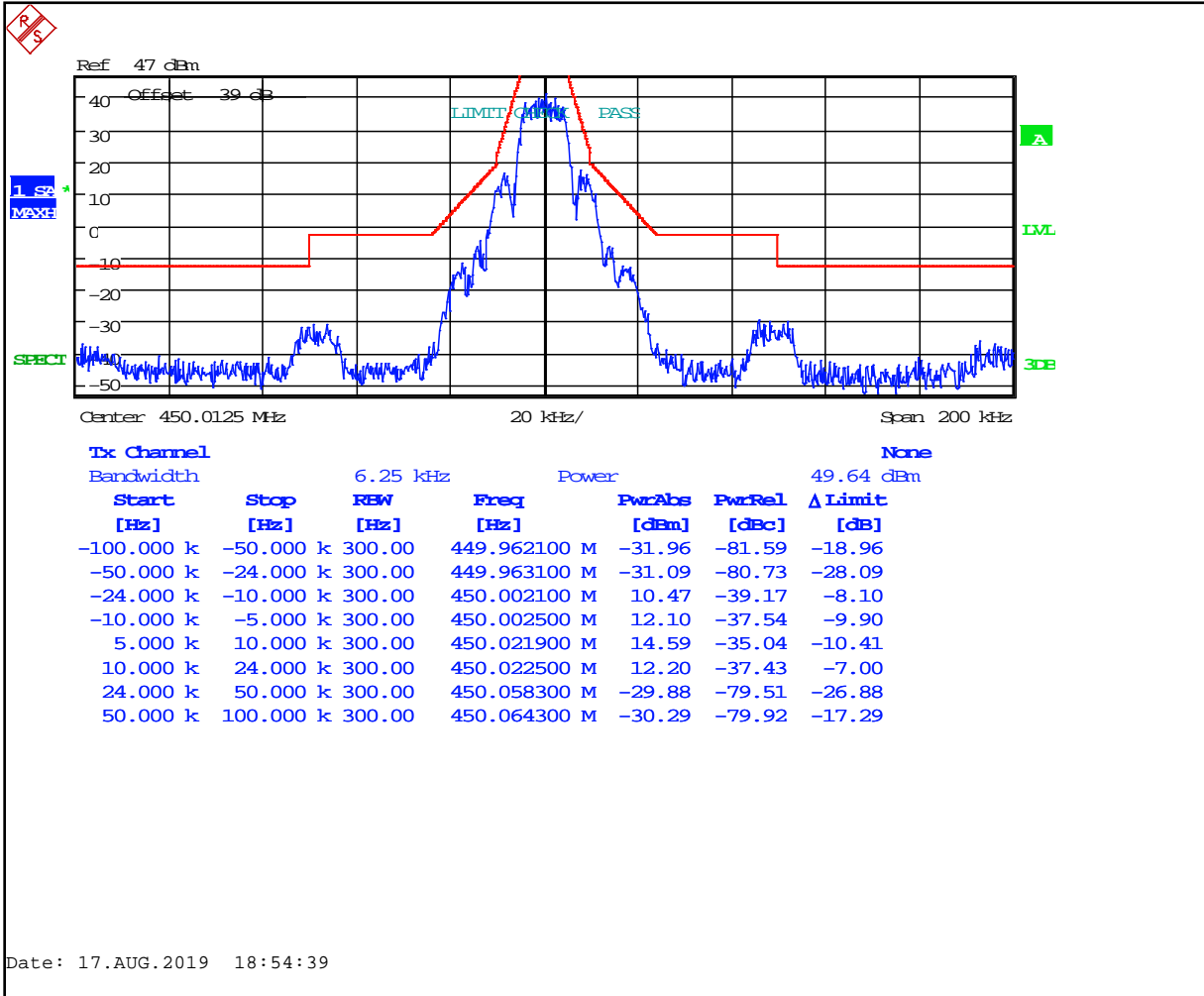
Plot 8-101: Occupied Bandwidth – 418.0000 MHz – 2-Level FSK 9600 WB (Mask C)



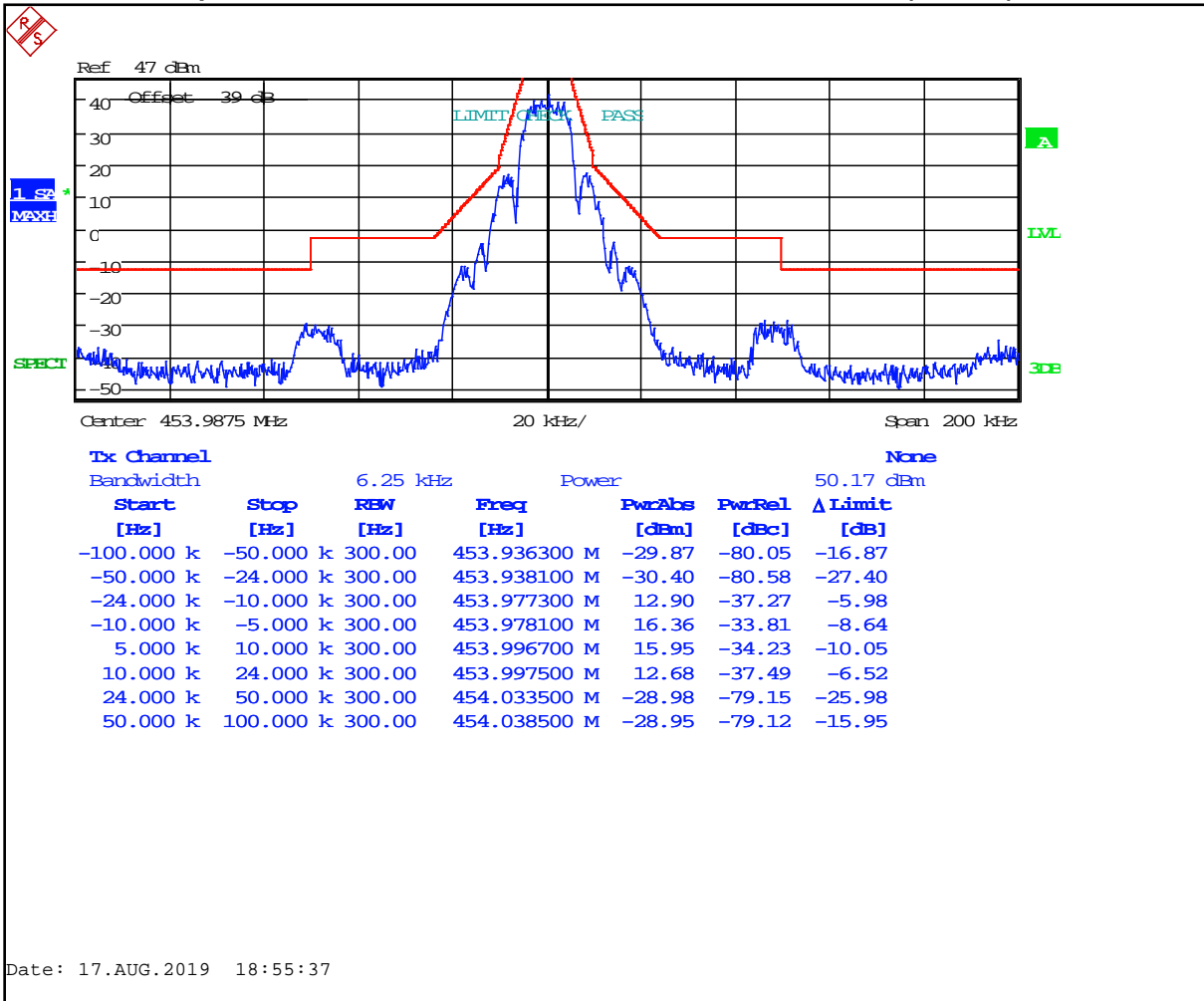
Plot 8-102: Occupied Bandwidth – 429.9875 MHz – 2-Level FSK 9600 WB (Mask C)



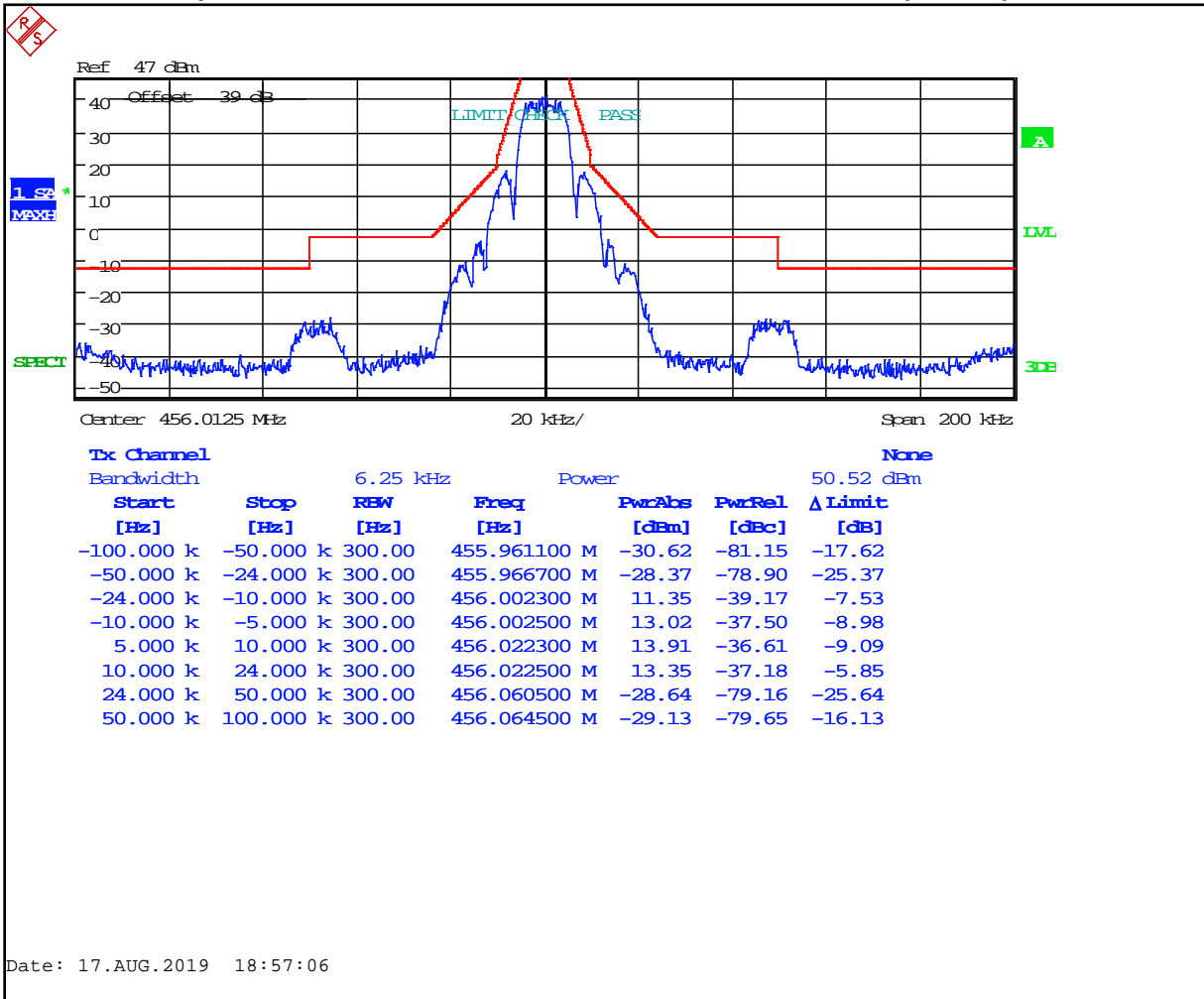
Plot 8-103: Occupied Bandwidth – 450.0125 MHz – 2-Level FSK 9600 WB (Mask C)



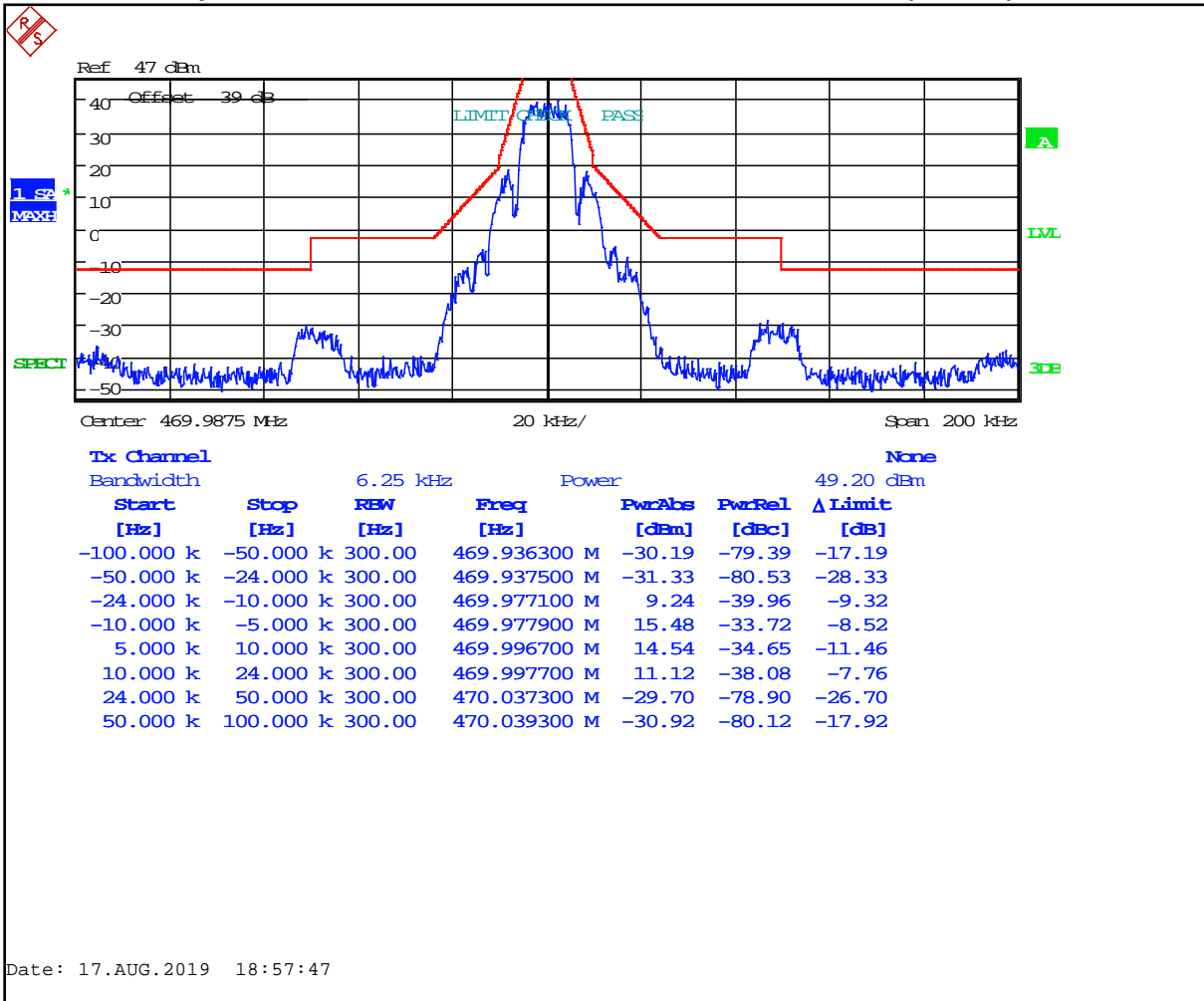
Plot 8-104: Occupied Bandwidth – 453.9875 MHz – 2-Level FSK 9600 WB (Mask C)



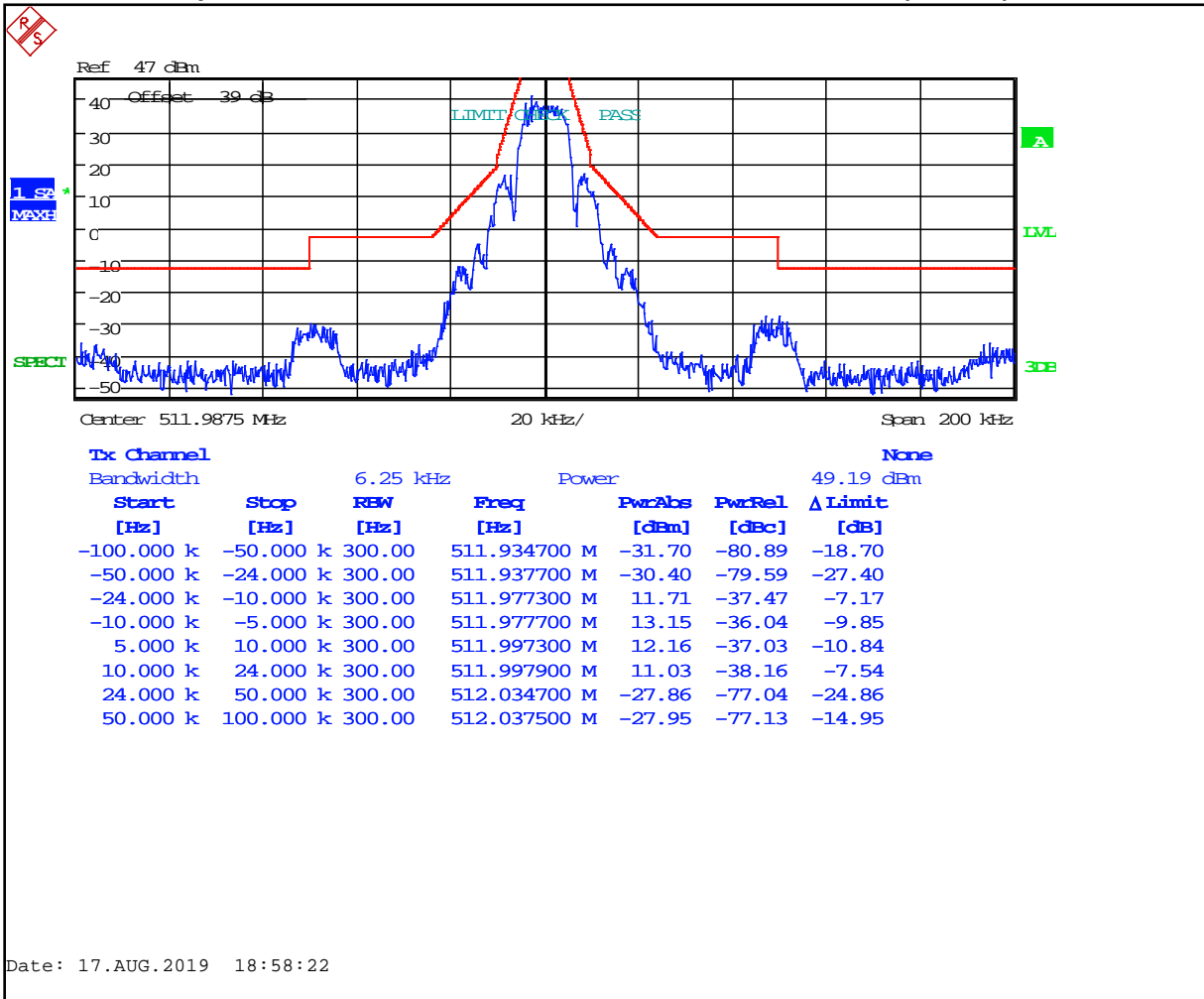
Plot 8-105: Occupied Bandwidth – 456.0125 MHz – 2-Level FSK 9600 WB (Mask C)



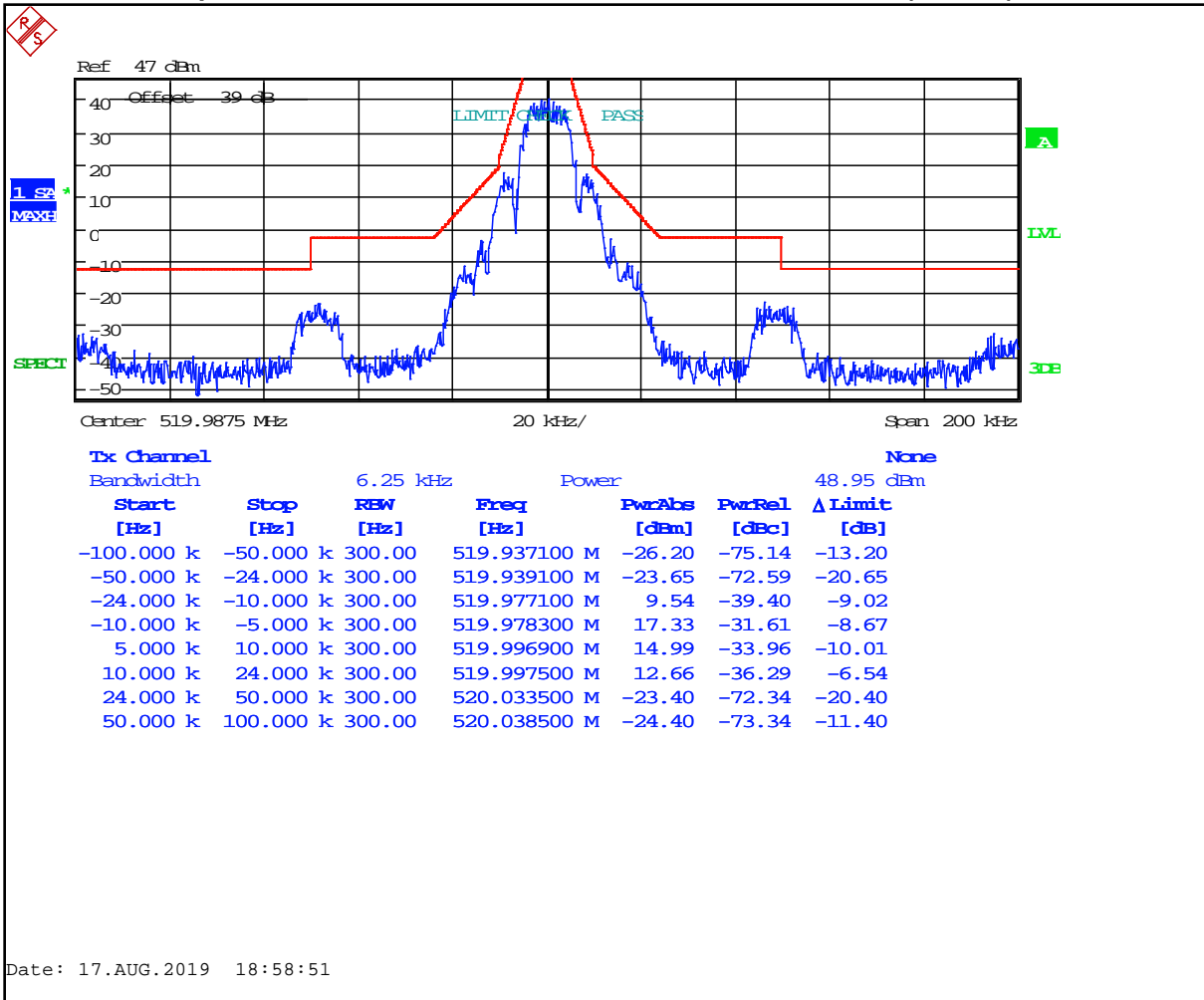
Plot 8-106: Occupied Bandwidth – 469.9875 MHz – 2-Level FSK 9600 WB (Mask C)



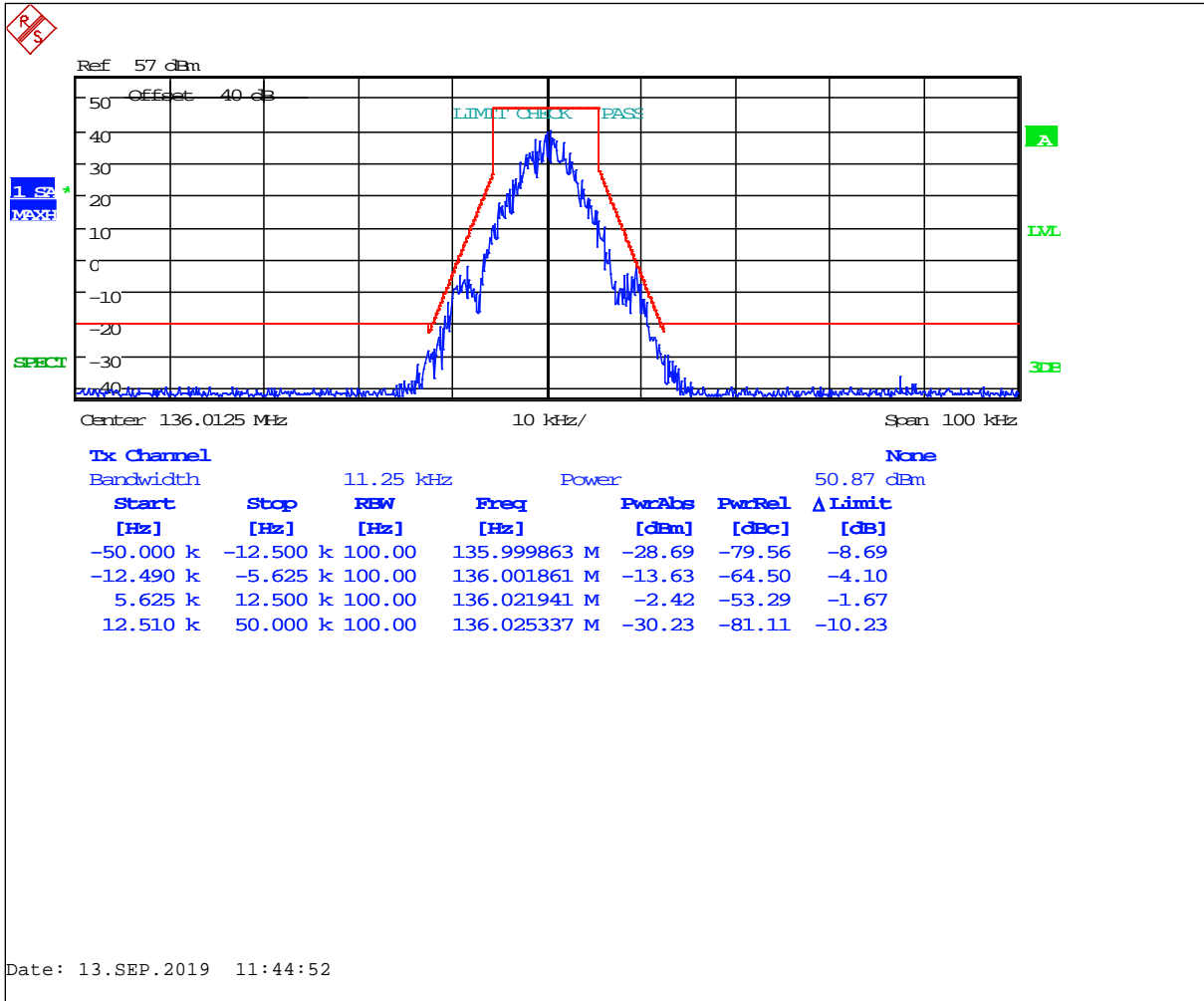
Plot 8-107: Occupied Bandwidth – 511.9875 MHz – 2-Level FSK 9600 WB (Mask C)



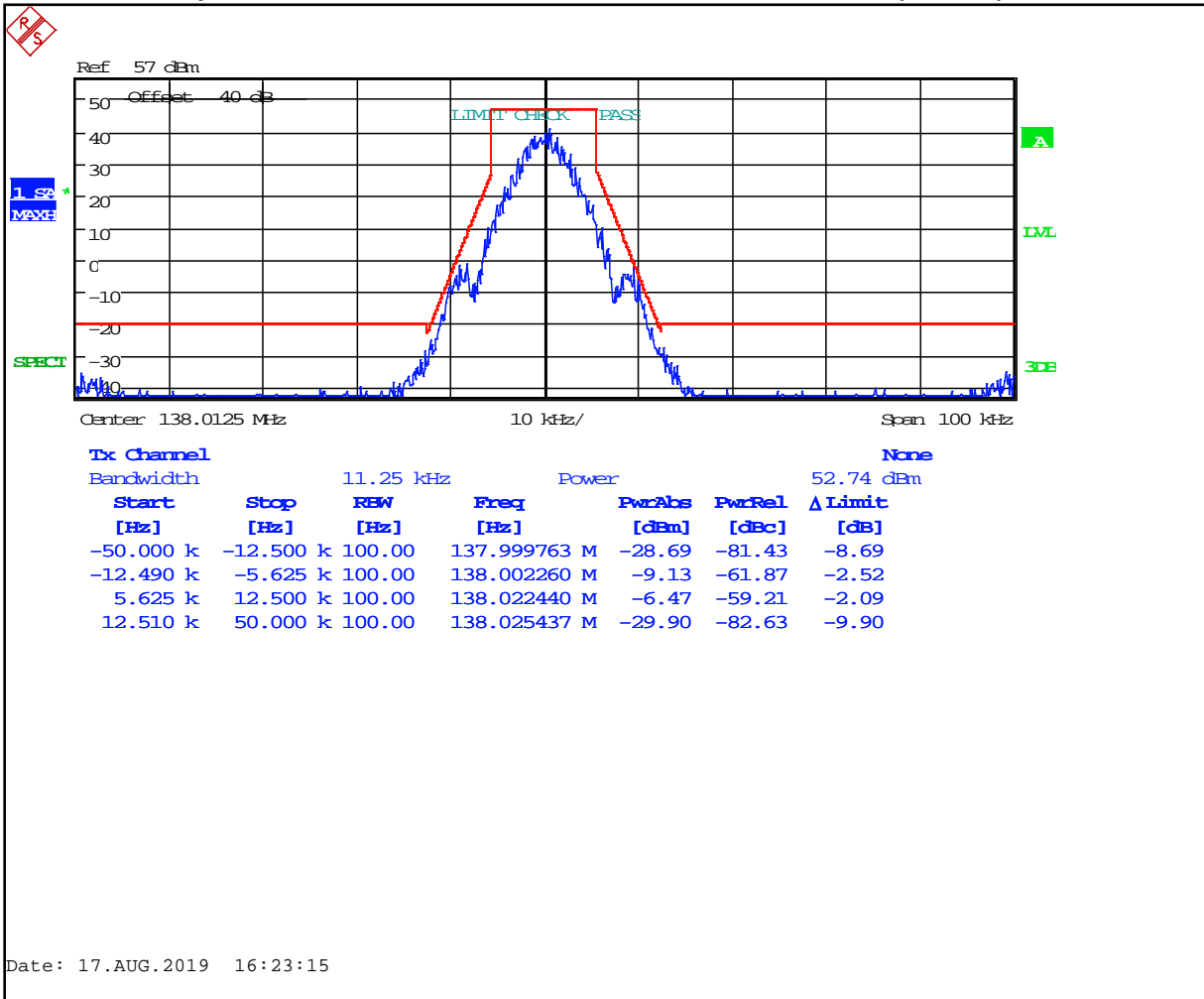
Plot 8-108: Occupied Bandwidth – 519.9875 MHz – 2-Level FSK 9600 WB (Mask C)



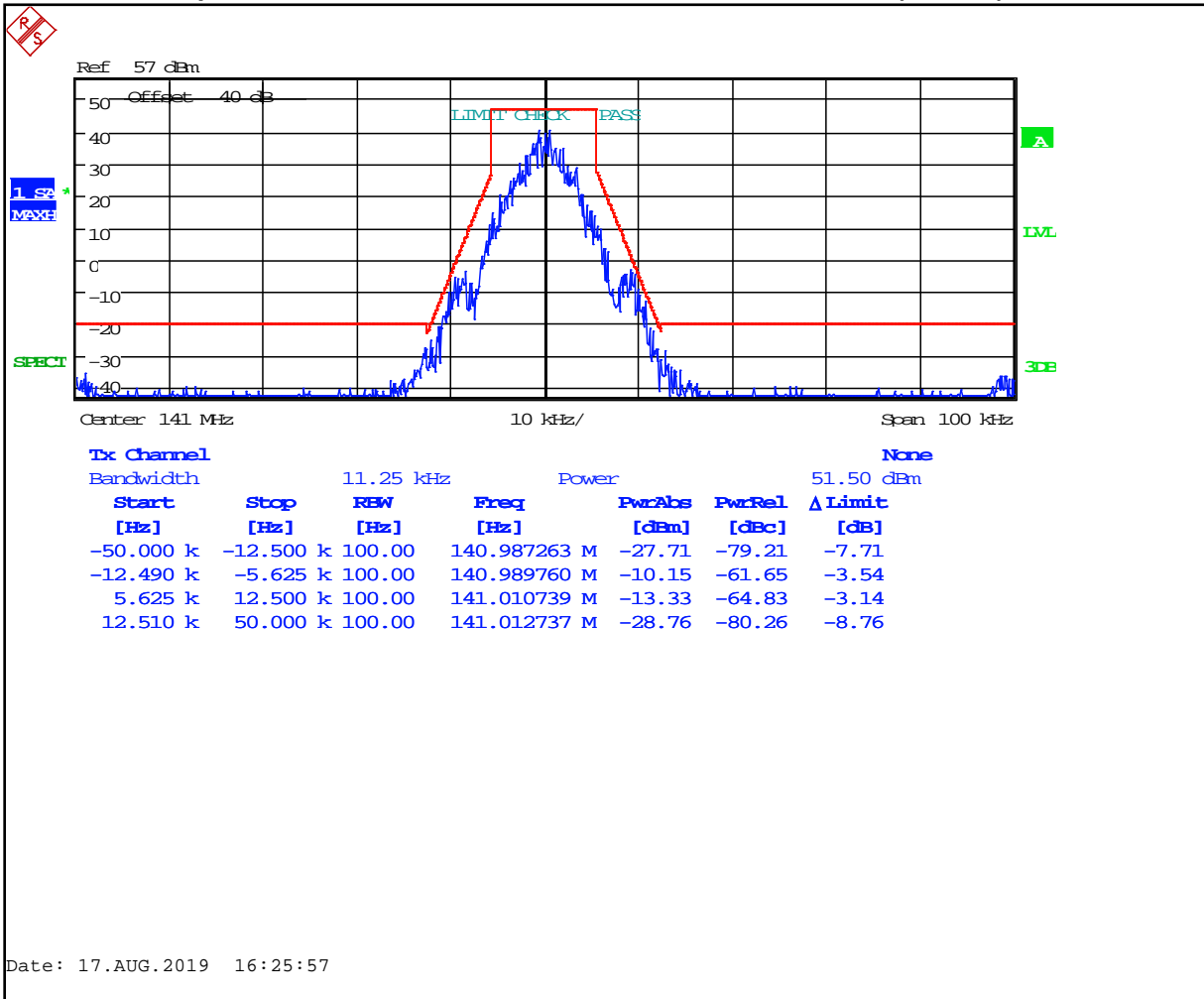
Plot 8-109: Occupied Bandwidth – 136.0125 MHz – 2-Level FSK 9600 NB (Mask D)



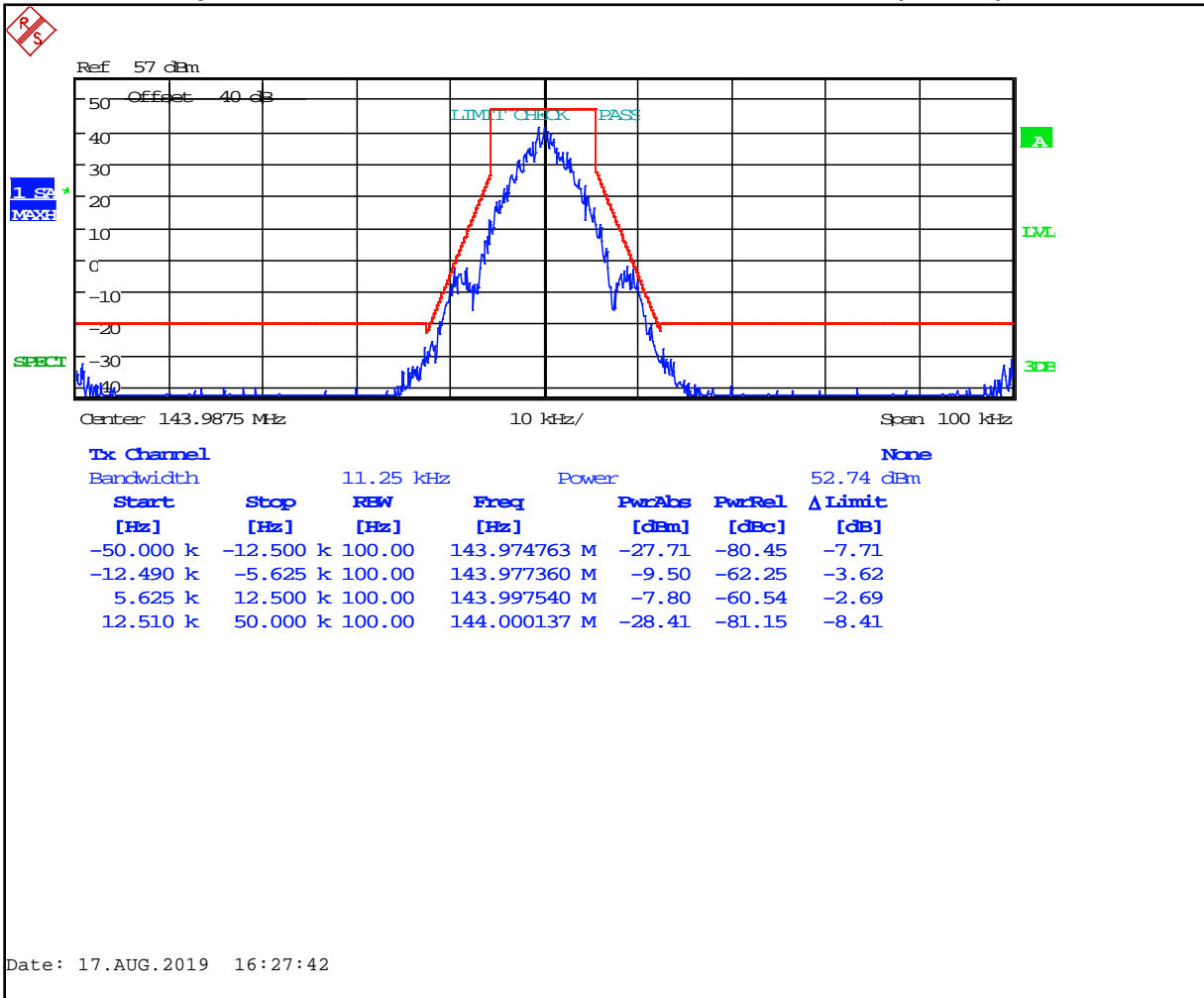
Plot 8-110: Occupied Bandwidth – 138.0125 MHz – 2-Level FSK 9600 NB (Mask D)



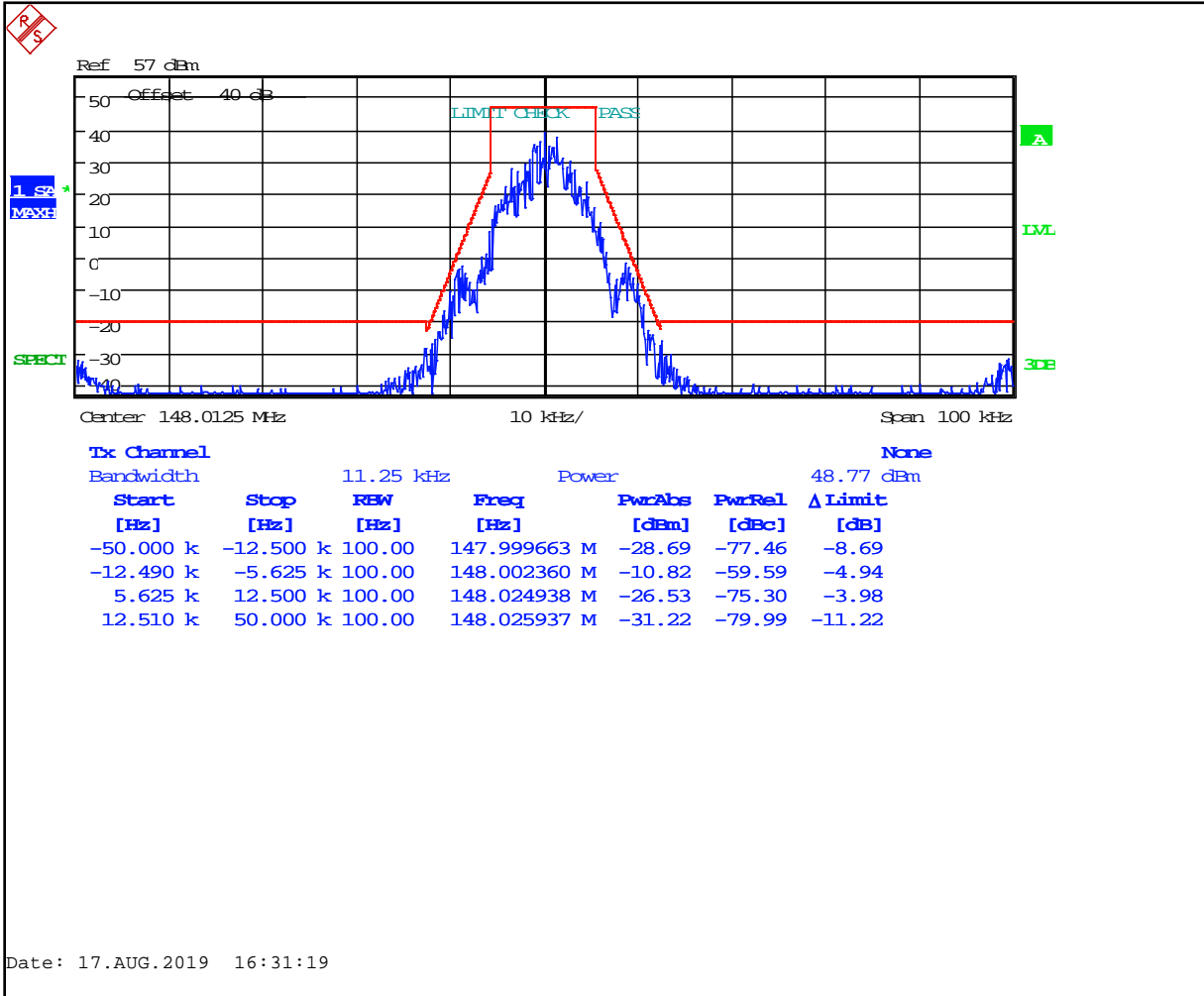
Plot 8-111: Occupied Bandwidth – 141.0000 MHz – 2-Level FSK 9600 NB (Mask D)



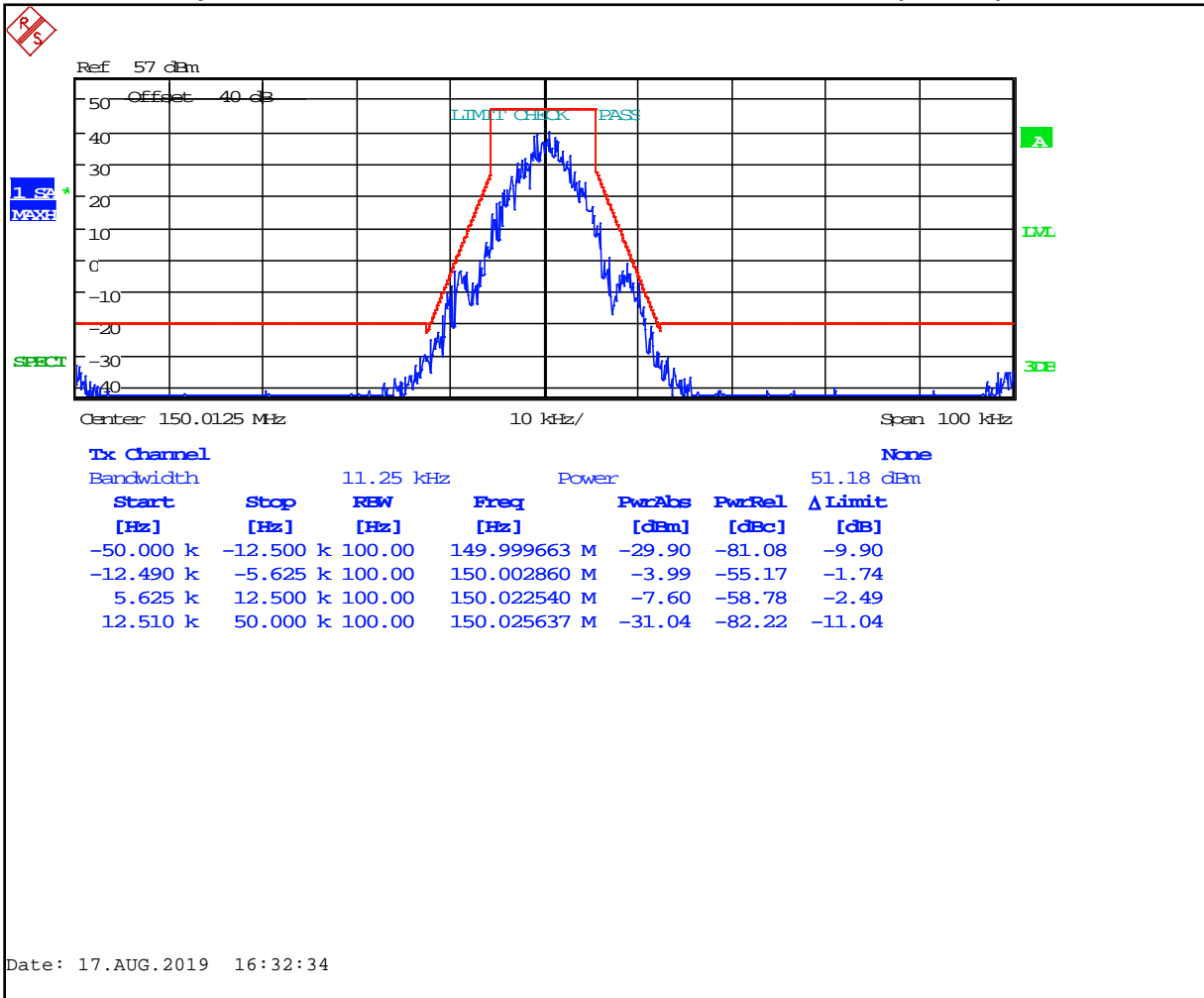
Plot 8-112: Occupied Bandwidth – 143.9875 MHz – 2-Level FSK 9600 NB (Mask D)



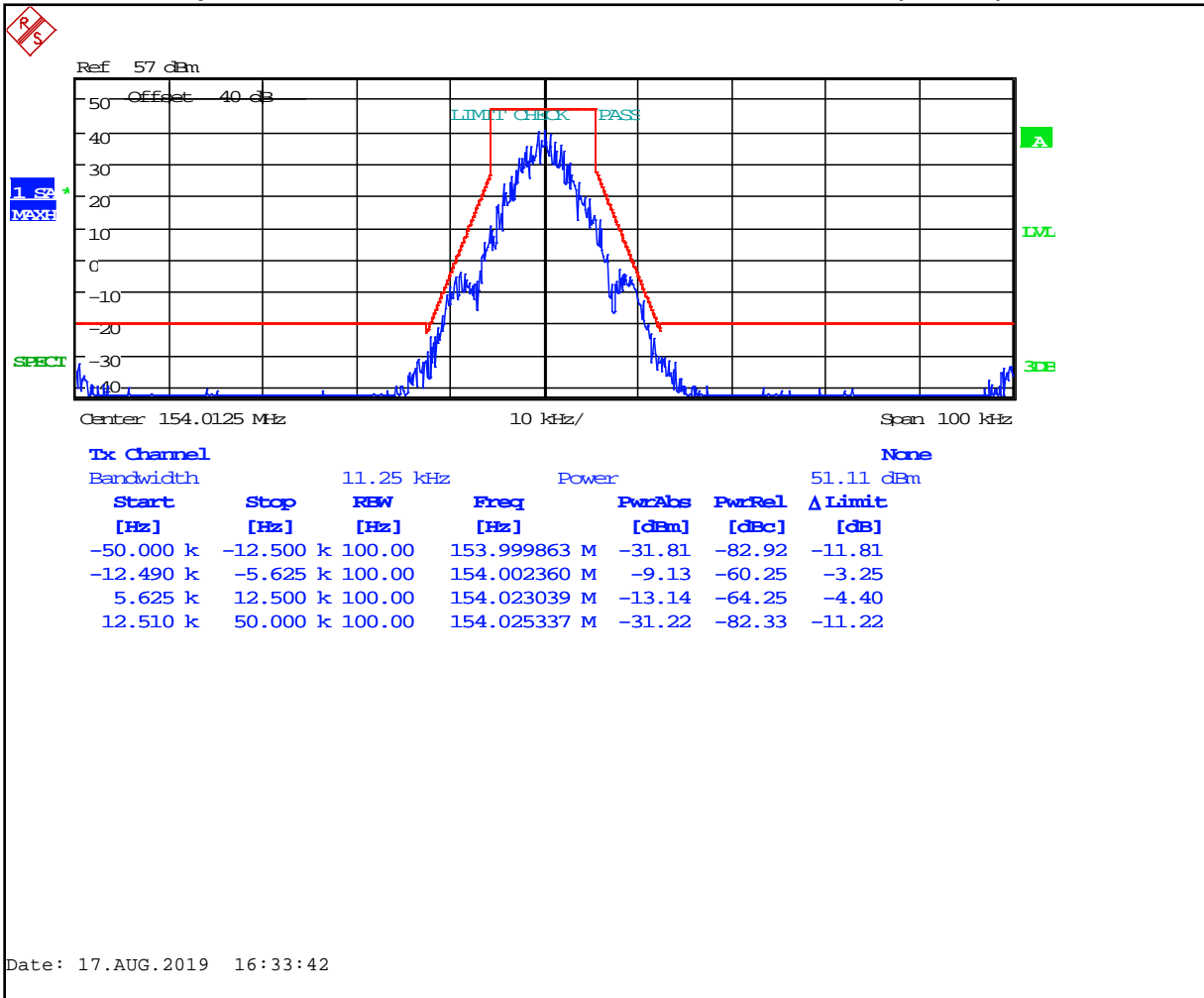
Plot 8-113: Occupied Bandwidth – 148.0125 MHz – 2-Level FSK 9600 NB (Mask D)



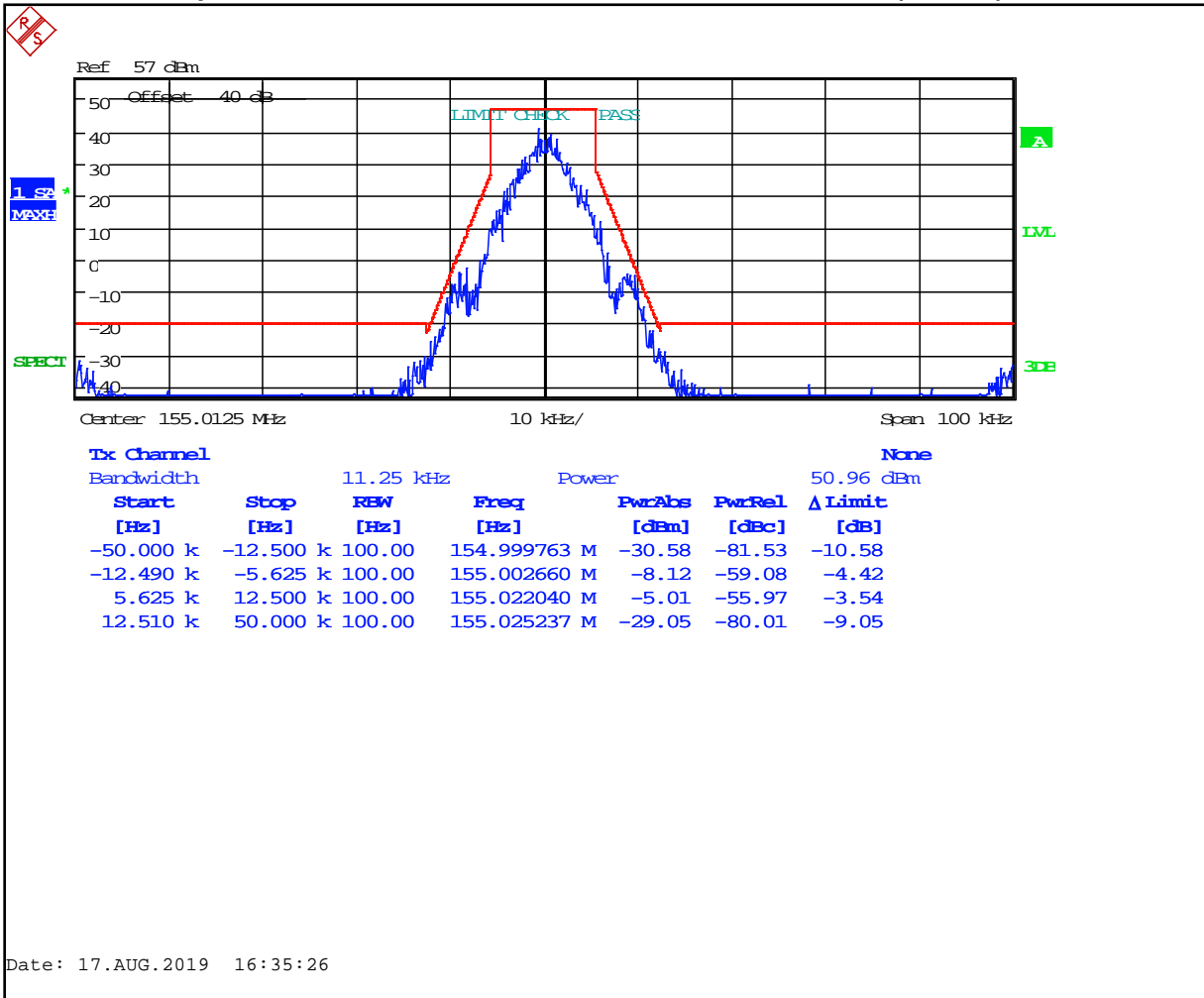
Plot 8-114: Occupied Bandwidth – 150.0125 MHz – 2-Level FSK 9600 NB (Mask D)



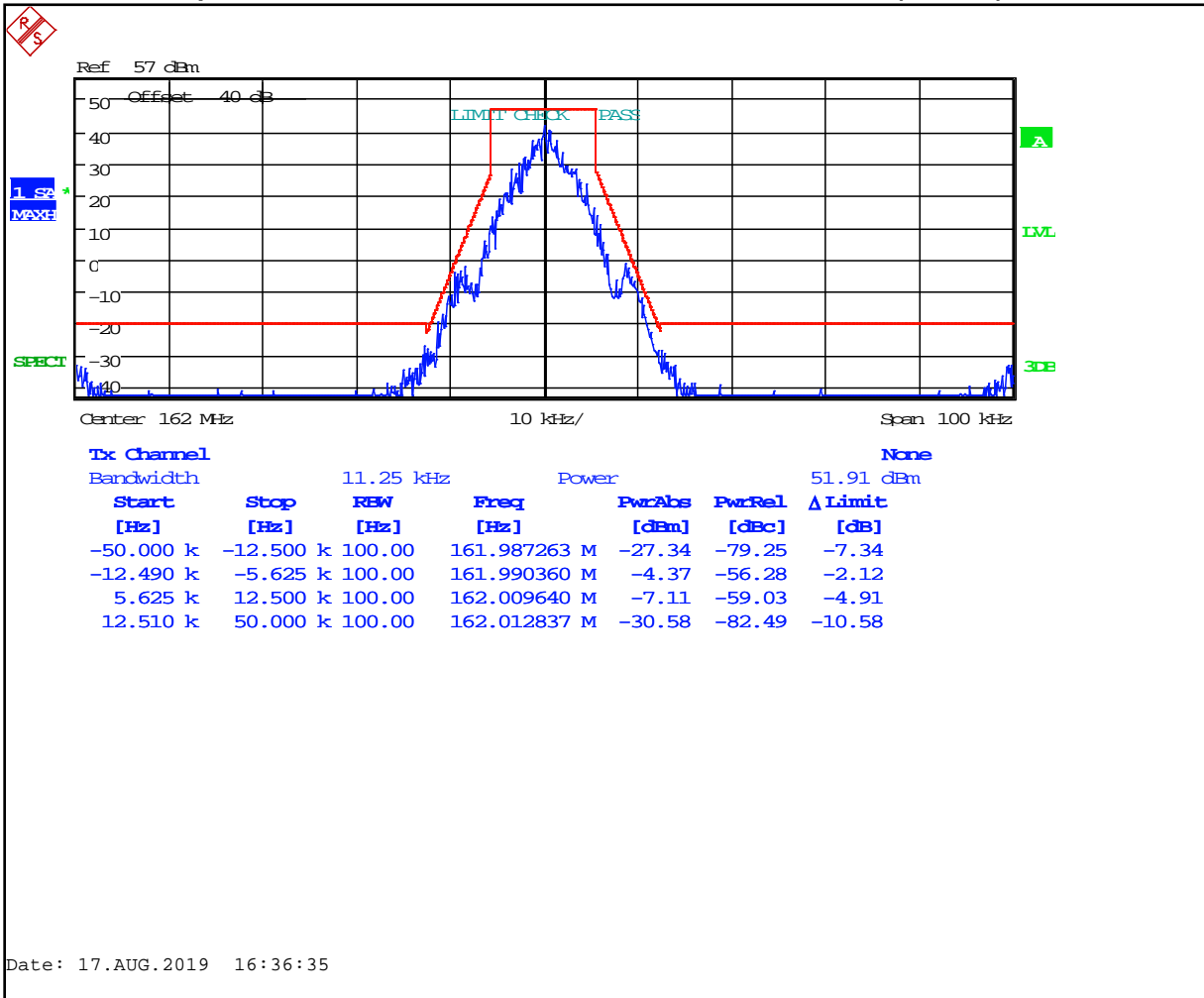
Plot 8-115: Occupied Bandwidth – 154.0125 MHz – 2-Level FSK 9600 NB (Mask D)



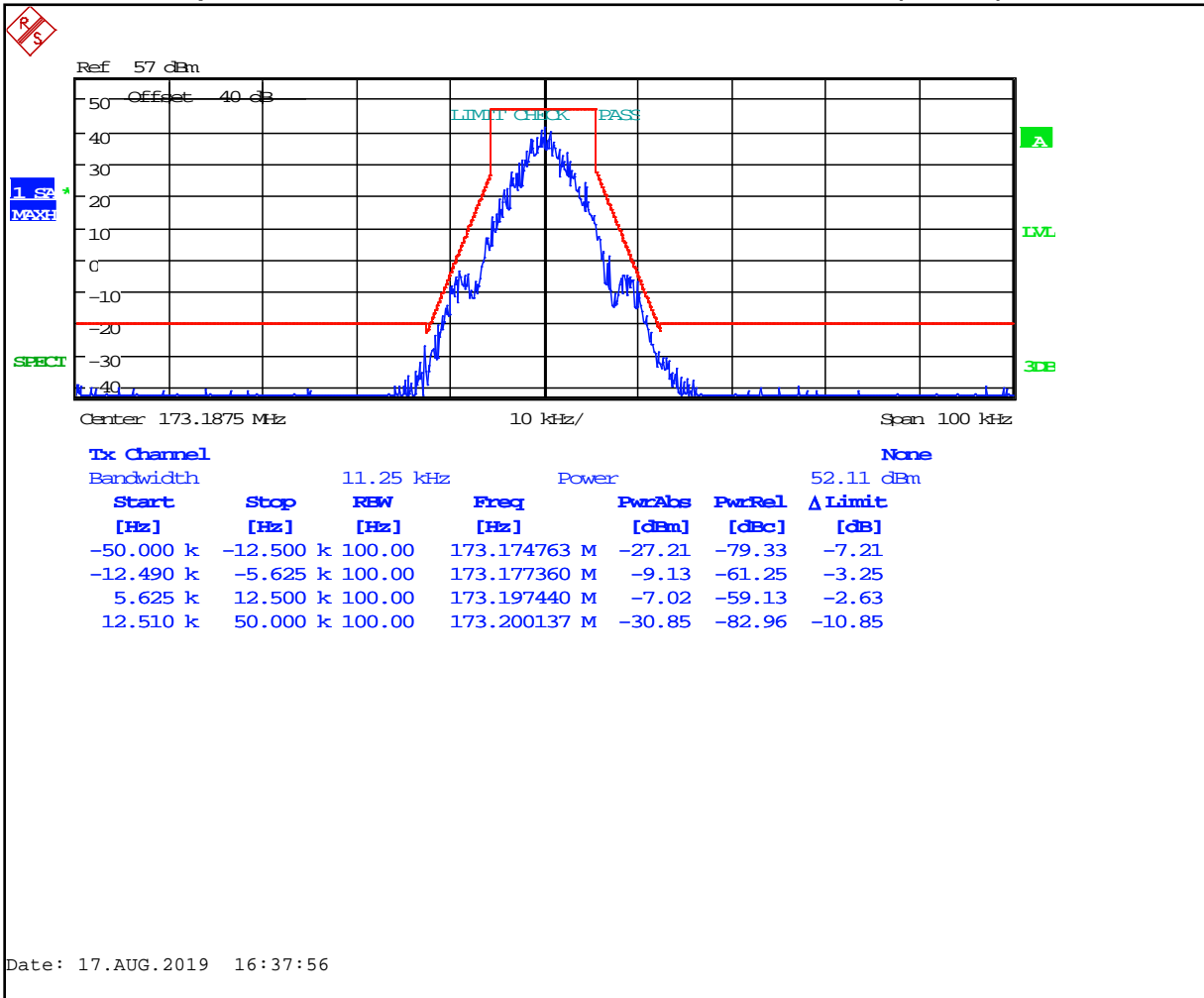
Plot 8-116: Occupied Bandwidth – 155.0125 MHz – 2-Level FSK 9600 NB (Mask D)



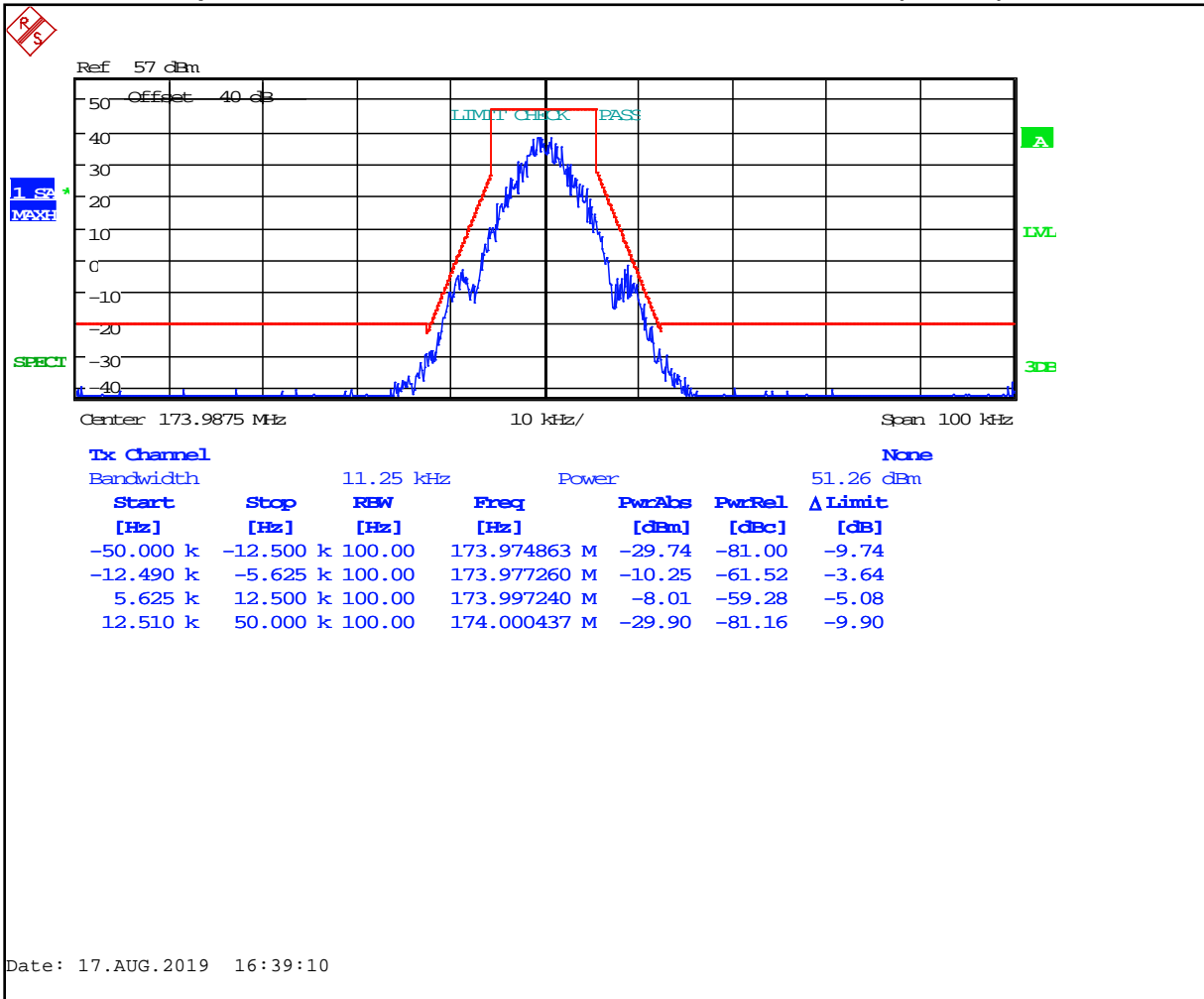
Plot 8-117: Occupied Bandwidth – 162.0000 MHz – 2-Level FSK 9600 NB (Mask D)



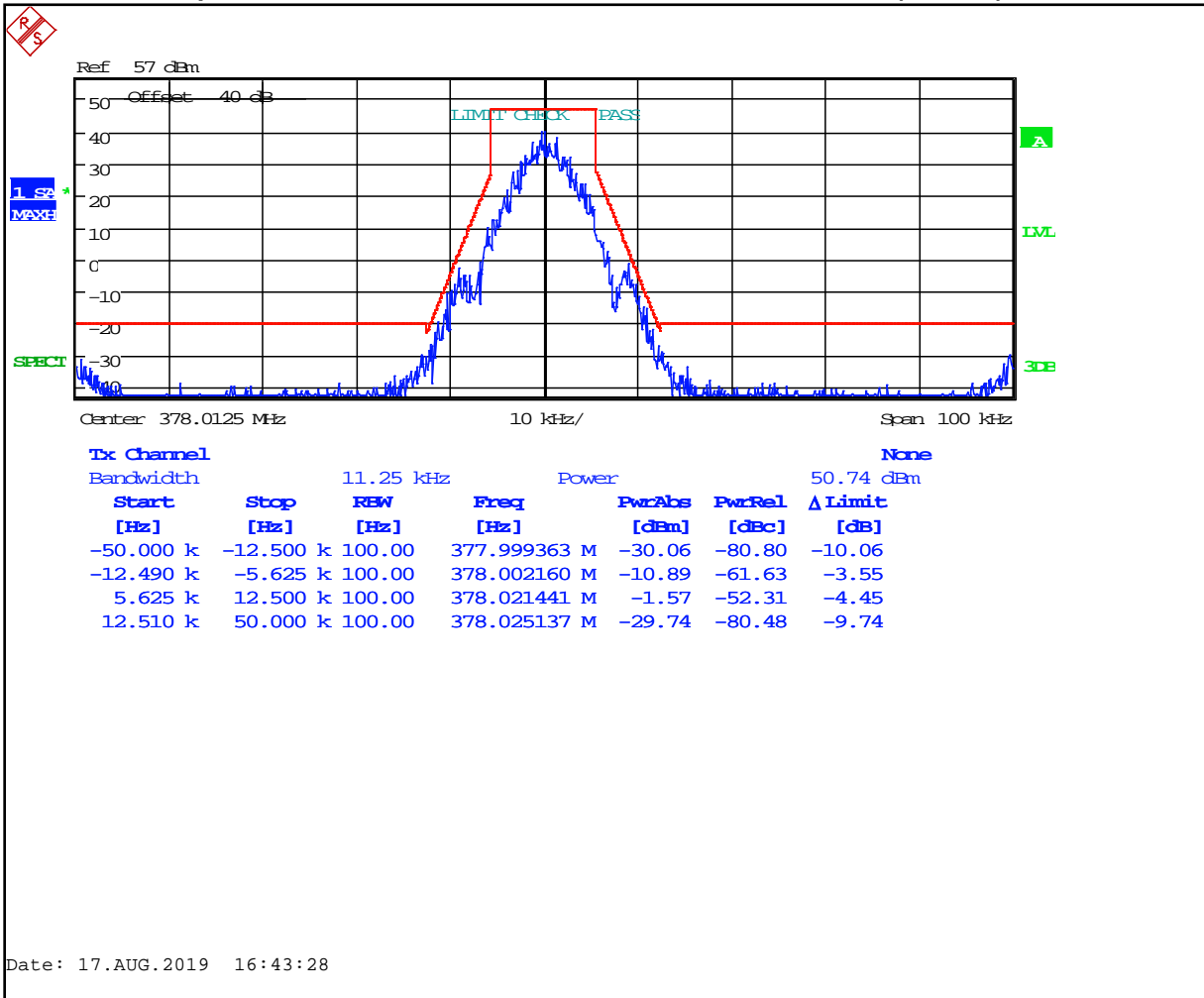
Plot 8-118: Occupied Bandwidth – 173.1875 MHz – 2-Level FSK 9600 NB (Mask D)



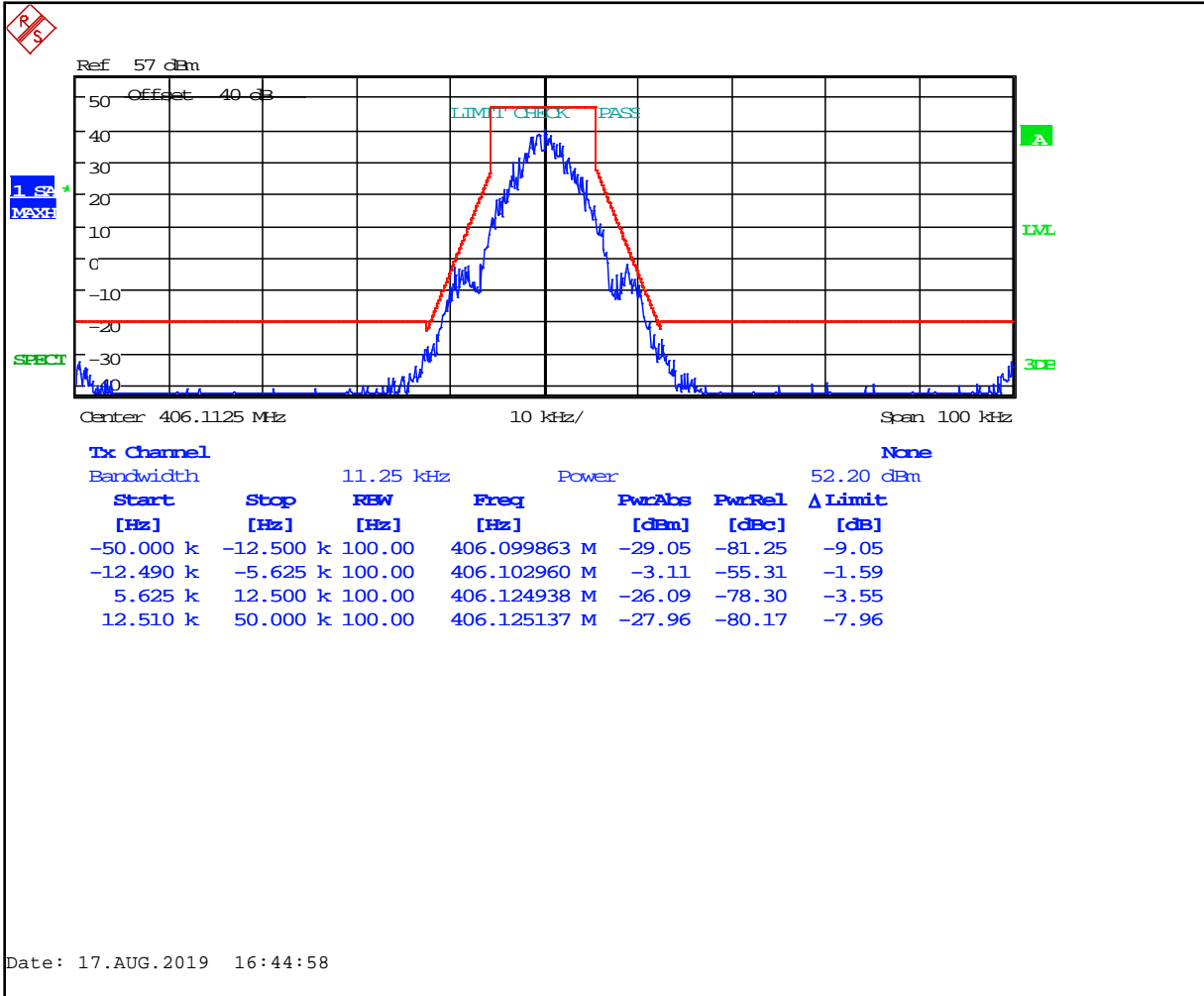
Plot 8-119: Occupied Bandwidth – 173.9875 MHz – 2-Level FSK 9600 NB (Mask D)



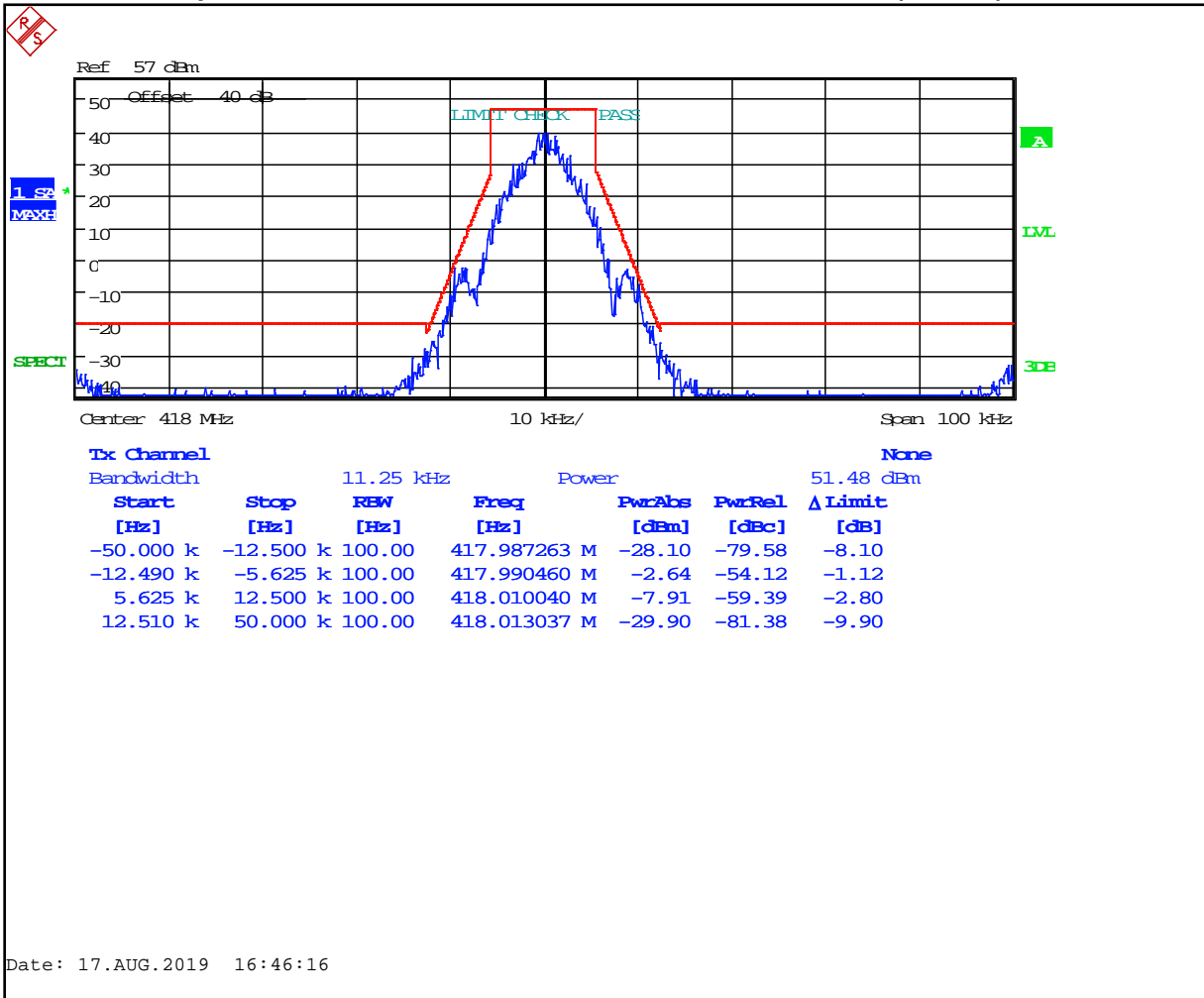
Plot 8-120: Occupied Bandwidth – 378.0125 MHz – 2-Level FSK 9600 NB (Mask D)



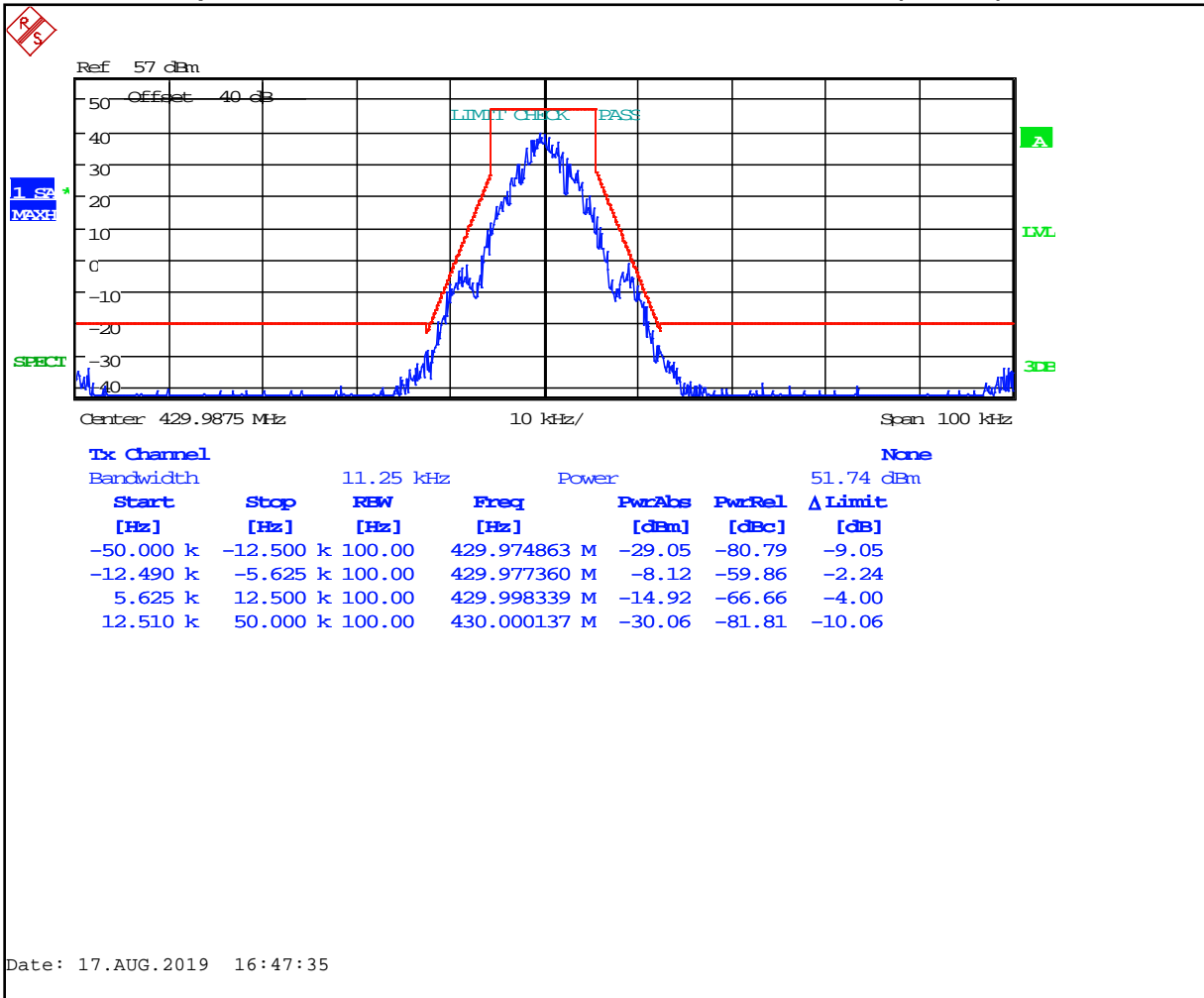
Plot 8-121: Occupied Bandwidth – 406.1125 MHz – 2-Level FSK 9600 NB (Mask D)



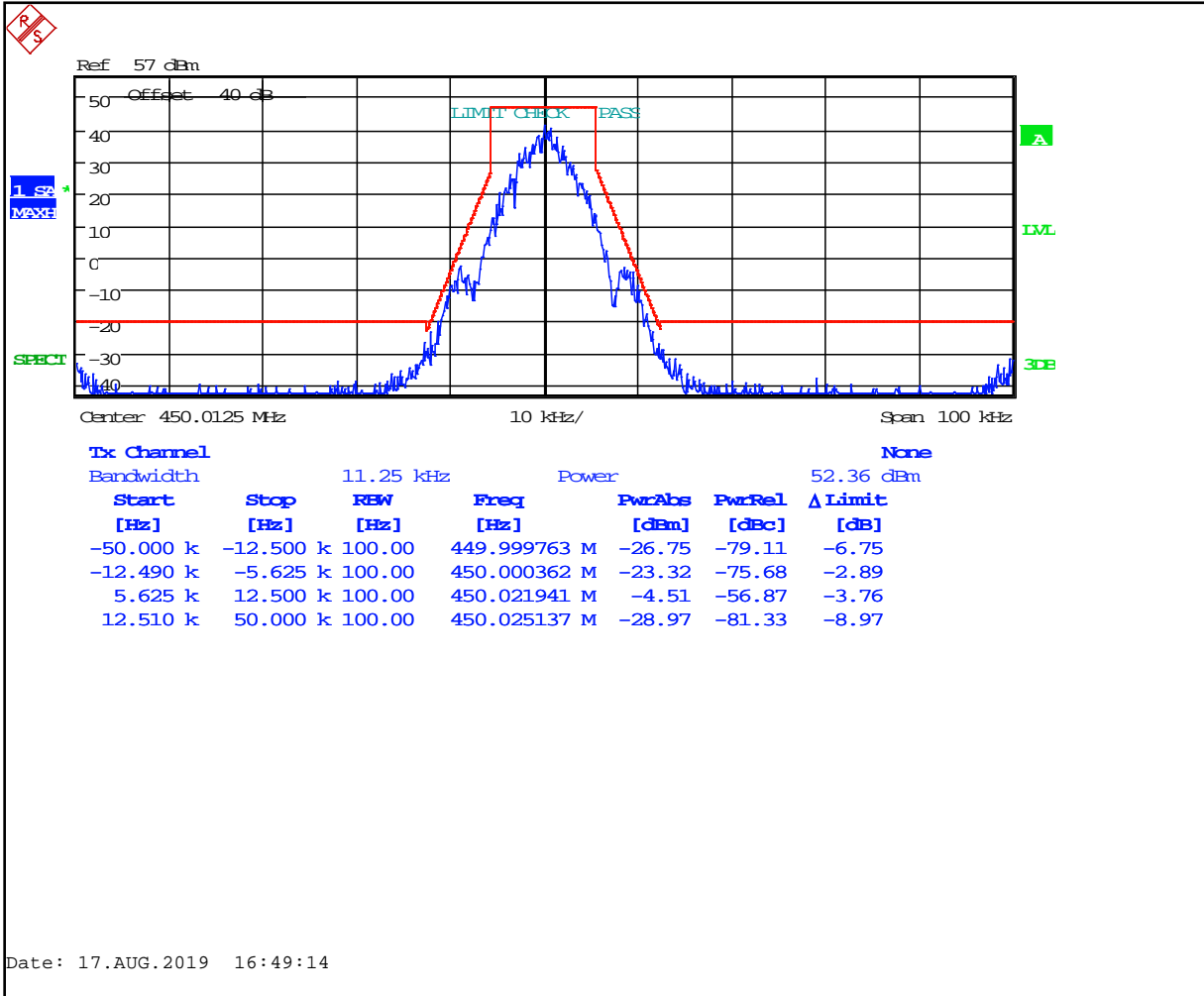
Plot 8-122: Occupied Bandwidth – 418.0000 MHz – 2-Level FSK 9600 NB (Mask D)



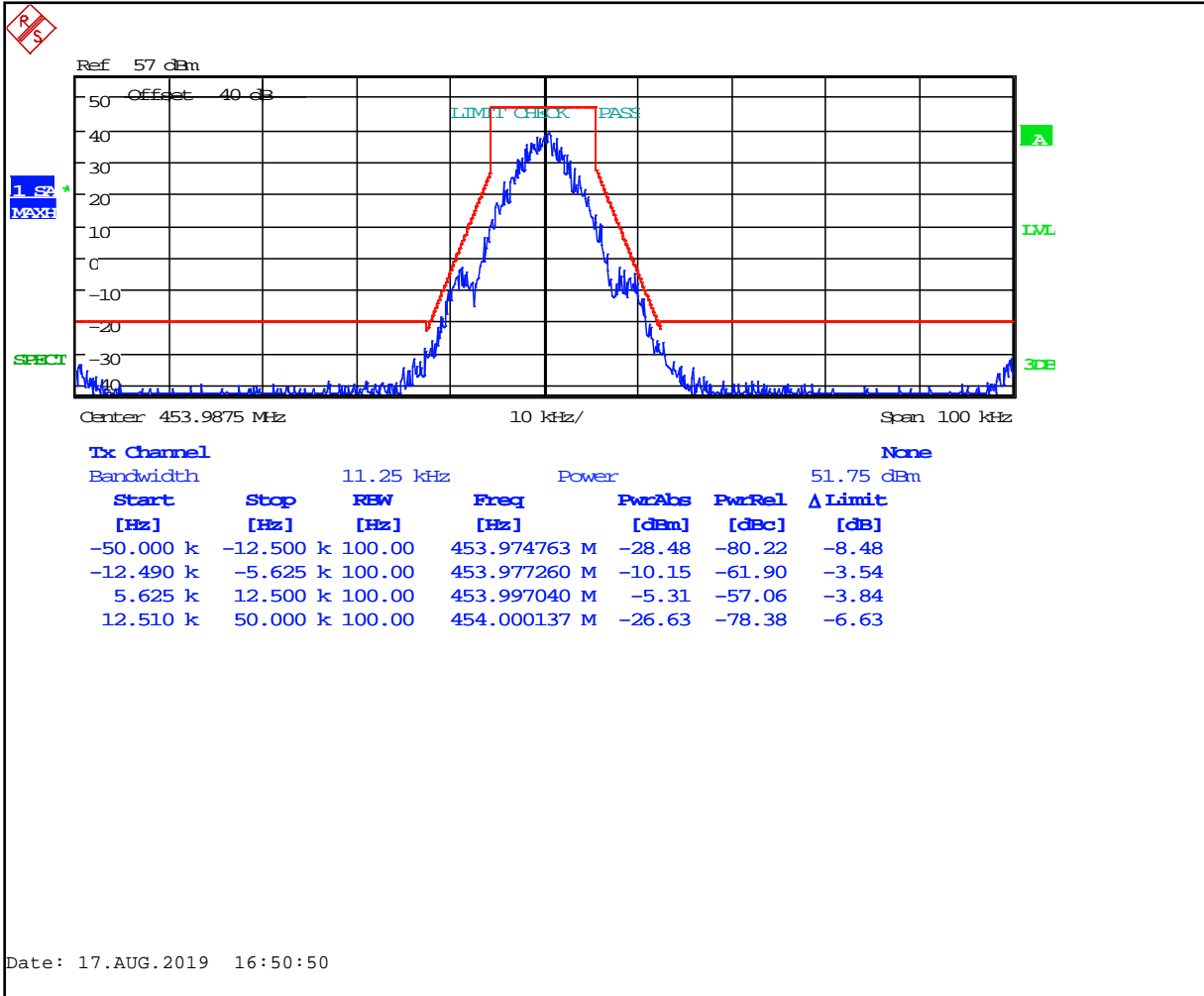
Plot 8-123: Occupied Bandwidth – 429.9875 MHz – 2-Level FSK 9600 NB (Mask D)



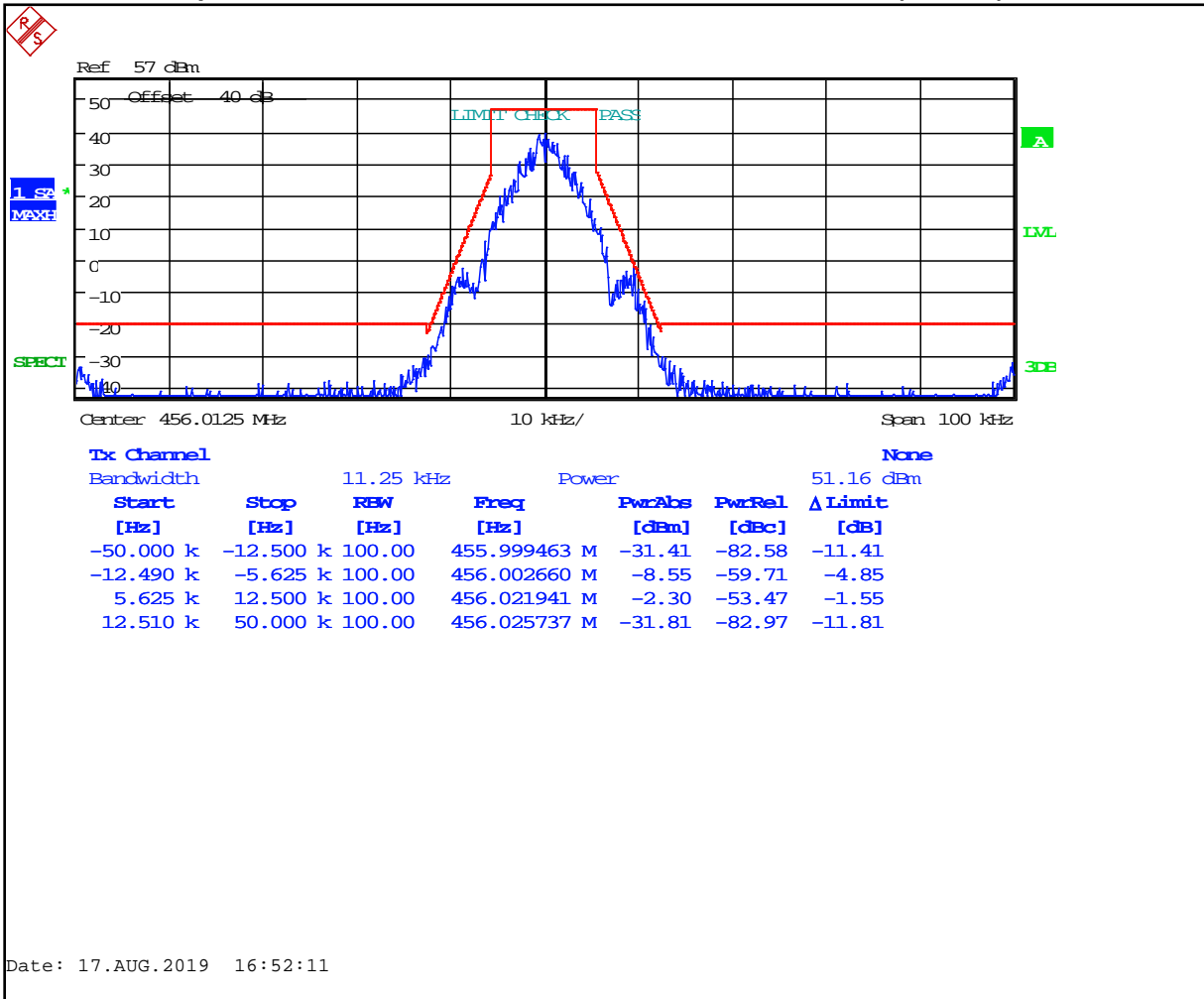
Plot 8-124: Occupied Bandwidth – 450.0125 MHz – 2-Level FSK 9600 NB (Mask D)



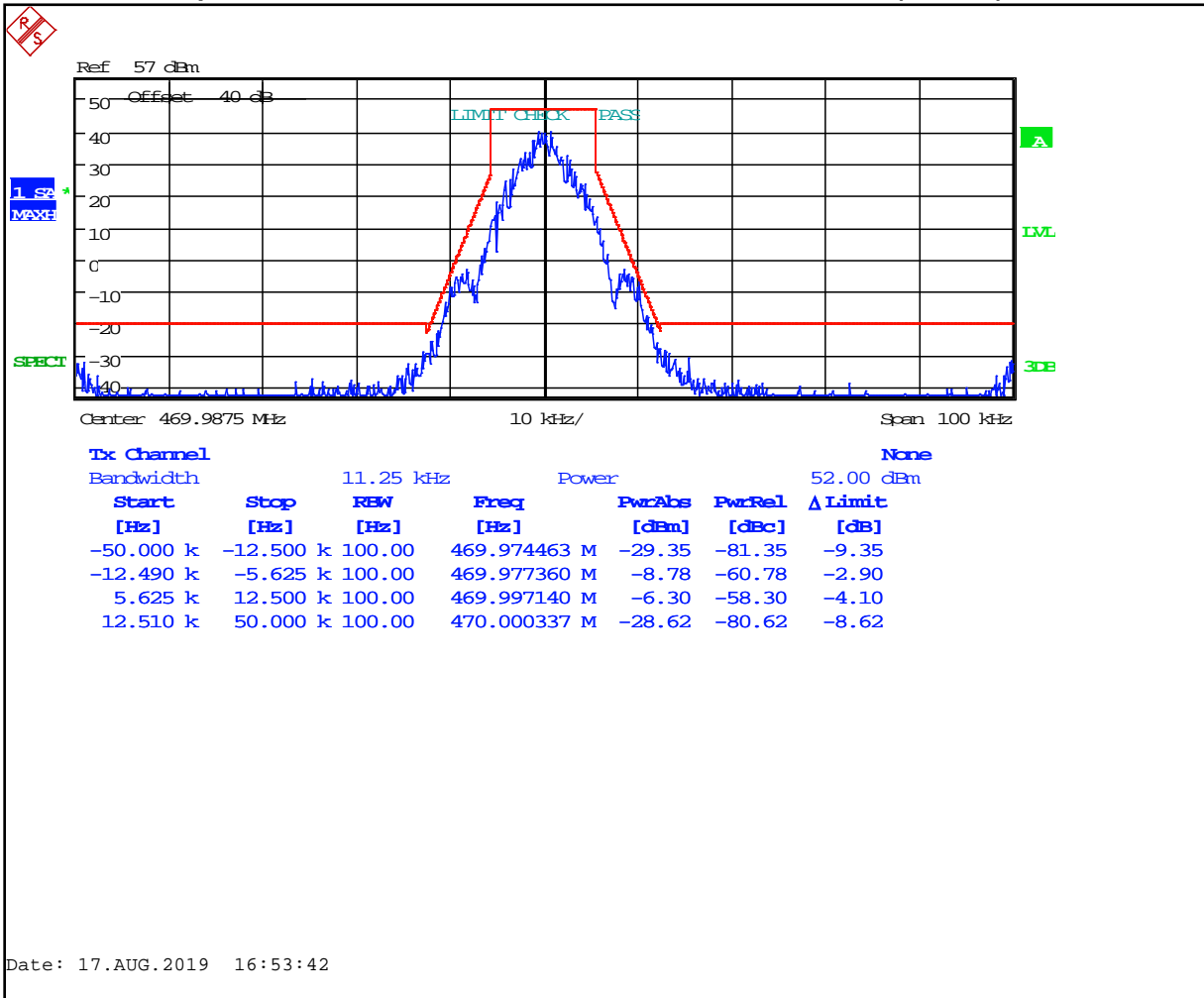
Plot 8-125: Occupied Bandwidth – 453.9875 MHz – 2-Level FSK 9600 NB (Mask D)



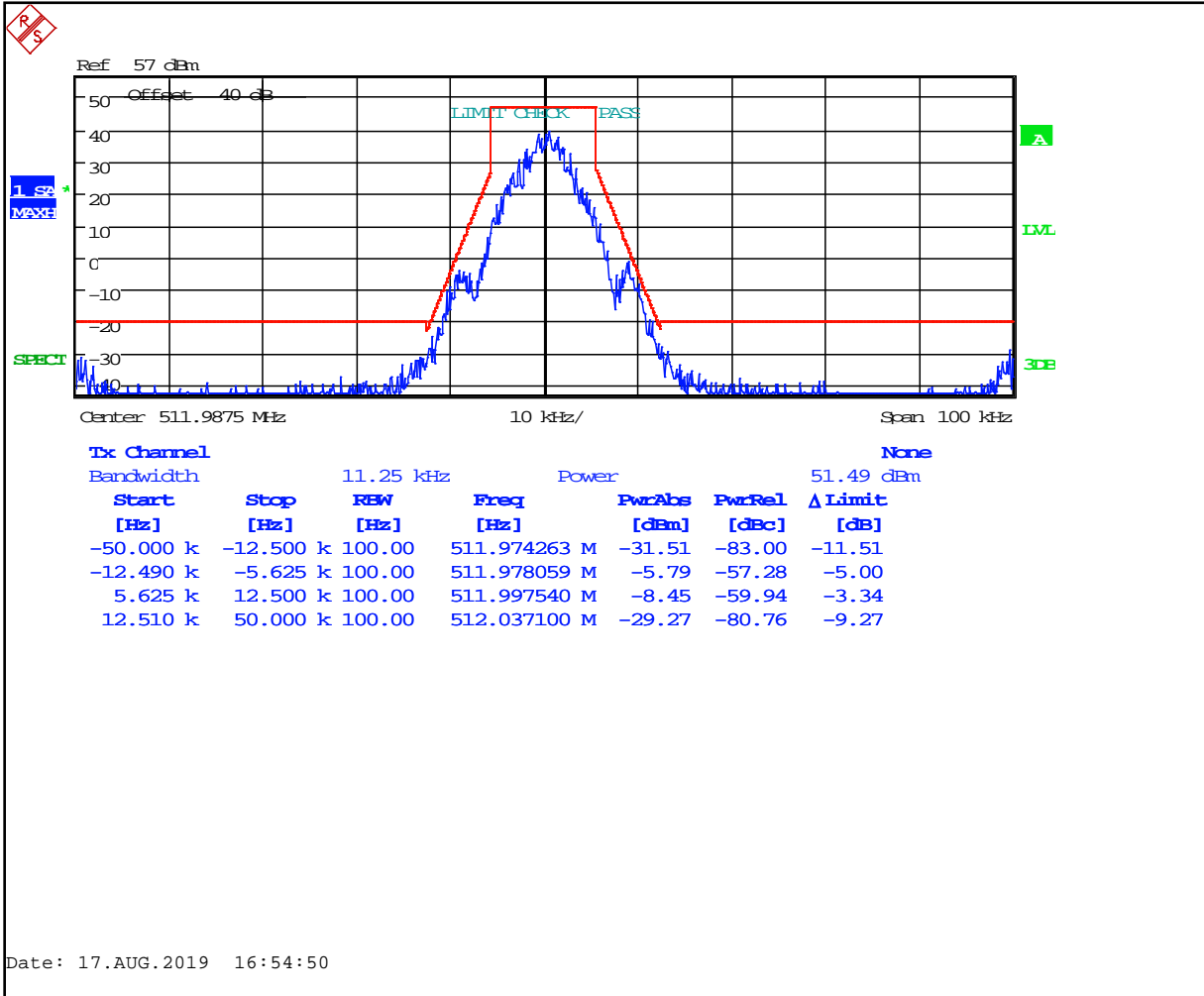
Plot 8-126: Occupied Bandwidth – 456.0125 MHz – 2-Level FSK 9600 NB (Mask D)



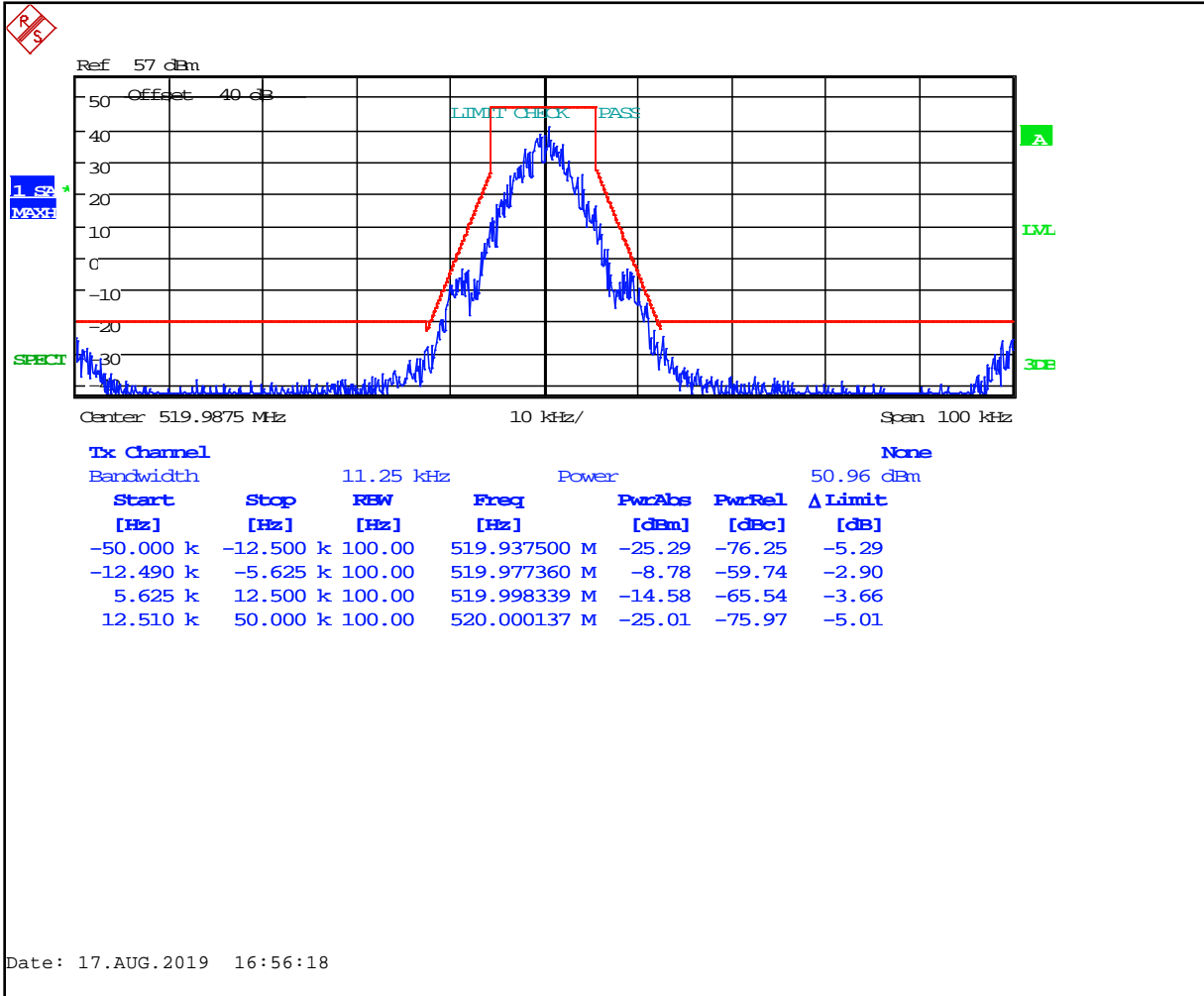
Plot 8-127: Occupied Bandwidth – 469.9875 MHz – 2-Level FSK 9600 NB (Mask D)



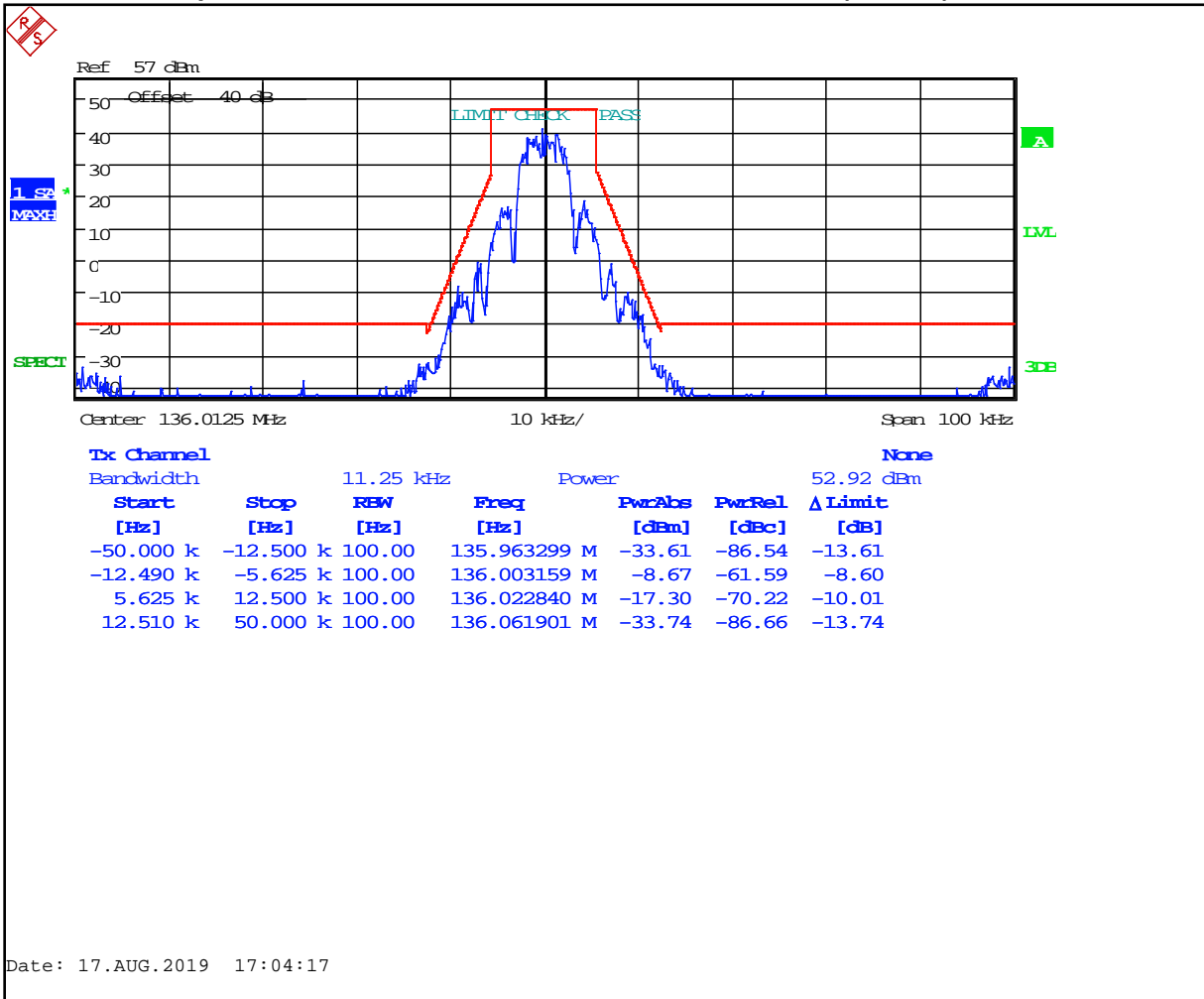
Plot 8-128: Occupied Bandwidth – 511.9875 MHz – 2-Level FSK 9600 NB (Mask D)



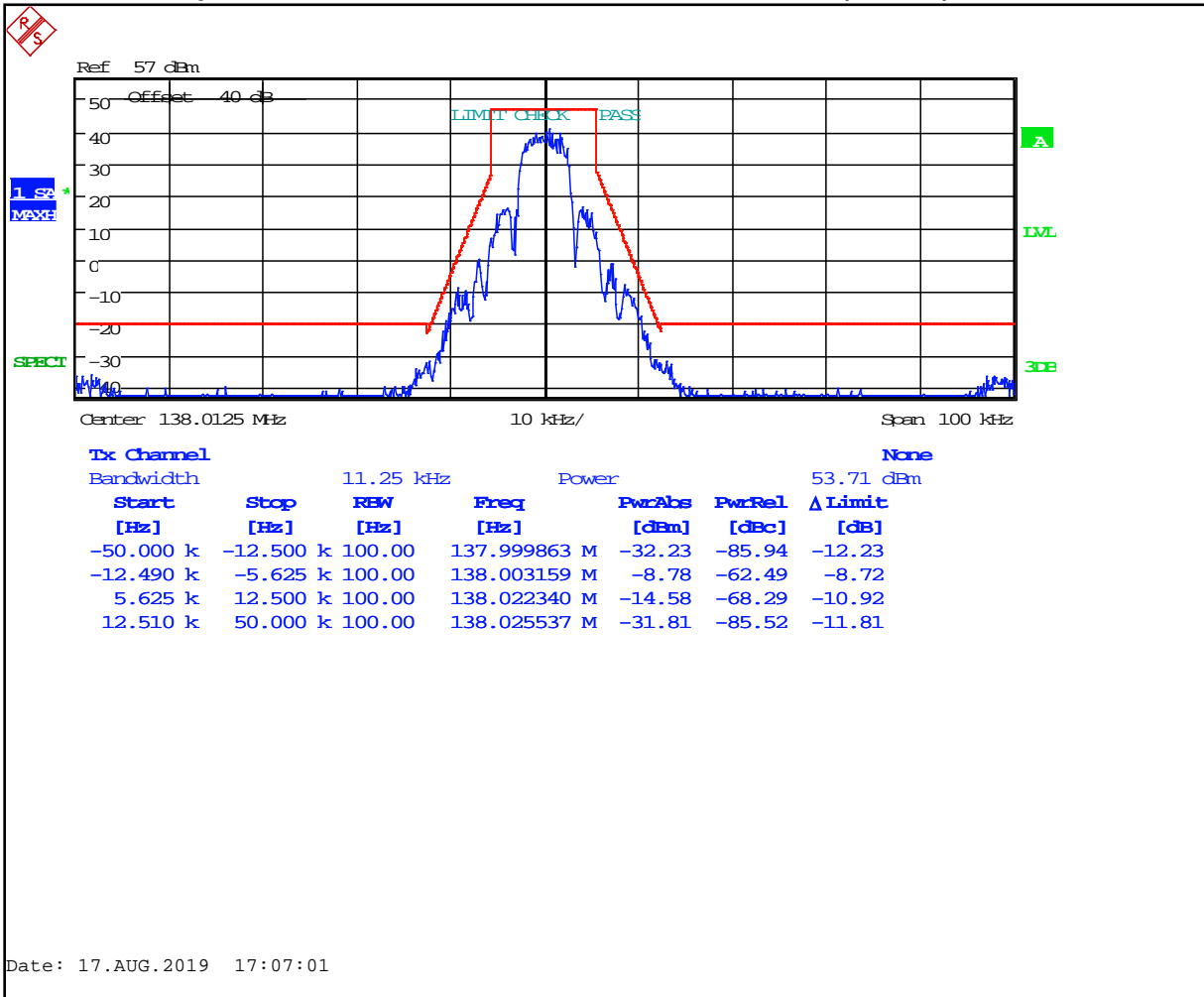
Plot 8-129: Occupied Bandwidth – 519.9875 MHz – 2-Level FSK 9600 NB (Mask D)



Plot 8-130: Occupied Bandwidth – 136.0125 MHz – 2-level FSK 4800 (Mask D)



Plot 8-131: Occupied Bandwidth – 138.0125 MHz – 2-level FSK 4800 (Mask D)



Plot 8-132: Occupied Bandwidth – 141.0000 MHz – 2-level FSK 4800 (Mask D)

