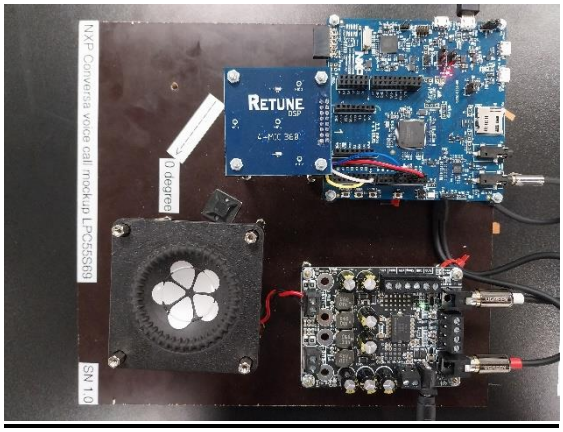
Measurement Protocol

Measurement Object	Microsoft Teams conferencing device 1.5m for NXP Conversa LPC55S69 software pack at 16kHz

Project	Mockup NXP Conversa LPC55S69 Software Pack
Report generation date	4/26/2023 3:31 PM
Evaluation procedure	MS Teams certification procedure v5
Conversa parameter file	conversa_parameters_config_LPCswp16k.src 2023/04/26 13:55:06
Responsible person	Mathieu BAQUE
Conversa lib version	5.3.18
ConversaTool version	5.3.7
Framework version	1.1.1



Notes

- **PxxA measurements**: They should be done in an anechoic room as required by the Microsoft Teams test suit. The room used for these measures is an absorbent room but not a full anechoic room. PxxA are grouped in the below table with a blue background.

- **PxxR measurements**: They are done in a more reverberant room than the one expected by Microsoft Teams test suit. PxxR are grouped in the below table with an orange background.

- **P13A :** Test fails due to non-anechoic environment.

- **P02A and P14A**: Tests latency fail due to the intern network latency.

Status Overview

SMD	Status	Single Value Description	Single Value	Object
P01A Send path - avg MOS-LQO - Shared Space	Ok	Calculated Value [MOS]	3.8	LPC55S69 SWP 16kHz 1.5m
P02A Send path - avg latency over E2E	Ok	Calculated Value [ms]	199.8	LPC55S69 SWP 16kHz 1.5m
P03A Send path: signal level with normal speech	Ok	Calculated Value	-15.9	LPC55S69 SWP 16kHz 1.5m
P04A Send path - signal level with quiet speech	Ok	Calculated Value	-17.1	LPC55S69 SWP 16kHz 1.5m
P05A Send path - idle channel SpNR	Ok	Calculated Value	52	LPC55S69 SWP 16kHz 1.5m
P06A Send path - active channel SpNR	Ok	Calculated Value	42	LPC55S69 SWP 16kHz 1.5m
P07A Single Frequency Interference SND	Ok	Min. dist. to tolerance scheme [dB], 750.0 Hz	0.31	LPC55S69 SWP 16kHz 1.5m
P08A Send path - distortion and noise	Ok			LPC55S69 SWP 16kHz 1.5m
P09A Send path- act. sens.- 2nd mask - Shared Space	Ok	Min. dist. to tolerance scheme [dB], 1.837 s	6.18	LPC55S69 SWP 16kHz 1.5m
P10A Send path: SpNR with maximum microphone gain	Ok	Calculated Value [dB]	41.3	LPC55S69 SWP 16kHz 1.5m
P11A Send path - freq. resp.- Shared Space Speakerphone	Ok	Min. dist. to tolerance scheme, 200.0 Hz	1.79	LPC55S69 SWP 16kHz 1.5m
P18A Receive path - freq. resp. - Shared Space Sp.	Ok	Min. dist. to tolerance scheme [Pa/V], 4000.0 Hz	2.65	LPC55S69 SWP 16kHz 1.5m
P12A Receive path - output level - Shared - up to 1.5m	Ok	Level [dB[SPL]], 0	67.59	LPC55S69 SWP 16kHz 1.5m
P13A Receive path - avg MOS-LQO - Shared Space Sp.	Not Ok	Calculated Value [MOS]	3.45	LPC55S69 SWP 16kHz 1.5m
P14A Receive path - avg latency over E2E call	Not Ok	Calculated Value [ms]	213.85	LPC55S69 SWP 16kHz 1.5m
P15A Receive idle channel noise - Personal/Shared space	Ok	Level [dB[SPL](A)]	18.28	LPC55S69 SWP 16kHz 1.5m
P16A Single Frequency Interference RCV	Ok	Min. dist. to tolerance scheme [dB], 2507.8 Hz	0.13	LPC55S69 SWP 16kHz 1.5m
P17A Receive path - distortion and noise - Shared Space	Ok			LPC55S69 SWP 16kHz 1.5m
P19A Receive path - no extra gain for quiet signals	Ok	Calculated Value	-0.51	LPC55S69 SWP 16kHz 1.5m
P20A Echo path - terminal coupling loss (TCL)	Ok	Calculated Value [dB]	59	LPC55S69 SWP 16kHz 1.5m
P21A Echo path - EQUEST nomvol - worst of 6	Ok	Calculated Value [MOS]	4.4	LPC55S69 SWP 16kHz 1.5m
P22A Echo path - echo dur alt. SND-RCV P1- ARnom - 1.5m	Ok	Min. dist. to tolerance scheme [dB], 35.095 s	9.91	LPC55S69 SWP 16kHz 1.5m
P22A Echo path - echo dur alt. SND-RCV P2- ARnom - 1.5m	Ok	Min. dist. to tolerance scheme [dB], 45.031 s	9.64	LPC55S69 SWP 16kHz 1.5m

P23A Echo path - SND attn. dur. DT - ARNom - 1.5m	Ok	Calculated Value [dB]	10.2	LPC55S69 SWP 16kHz 1.5m
P01R Send quality with ambient noise - avg S-MOS	Ok	Calculated Value [MOS (Avg)]	4.13	LPC55S69 SWP 16kHz 1.5m
P02R Send quality with ambient noise - avg N-MOS	Ok	Calculated Value [MOS (Avg)]	3.79	LPC55S69 SWP 16kHz 1.5m
P03R Send path - Average Alter. talker1&2 S-MOS	Ok	Calculated Value [MOS]	4.3	LPC55S69 SWP 16kHz 1.5m
P04R Send path - Average Alter. talker 1&2 - Level	Ok	Calculated Value [dB]	-16.6	LPC55S69 SWP 16kHz 1.5m
P05R Receive path: output level in reverber - upto 1.5m	Ok	Level [dB[SPL](C)], 0	67.37	LPC55S69 SWP 16kHz 1.5m
P06R Echo path - EQUEST nomvol - worst of 6	Ok	Calculated Value [MOS]	4.40	LPC55S69 SWP 16kHz 1.5m
P07R Echo Path- A-wt echo during alt. SND-RCV P1-Reverb	Ok	Min. dist. to tolerance scheme [dB], 39.884 s	7.09	LPC55S69 SWP 16kHz 1.5m
P07R Echo Path- A-wt echo during alt. SND-RCV P2-Reverb	Ok	Min. dist. to tolerance scheme [dB], 43.537 s	3.54	LPC55S69 SWP 16kHz 1.5m
P08R Echo path -AEC convergence test A-wt at call start	Ok	Min. dist. to tolerance scheme [dB], 11.771 s	20.58	LPC55S69 SWP 16kHz 1.5m

P01A Send path - avg MOS-LQO - Shared Space, Index: 1

Correction

PMOS_SND_F1	3.700	4/18/2023	Measured	Super Wideband MOS (P.863) SND - female run 1
PMOS_SND_F2	3.700	4/18/2023	Measured	Super Wideband MOS (P.863) SND - female run 2
PMOS_SND_M1	3.900	4/18/2023	Measured	Super Wideband MOS (P.863) SND - male run 1
PMOS_SND_M2	3.900	4/18/2023	Measured	Super Wideband MOS (P.863) SND - male run 2

(PMOS_SND_F1+PMOS_SND_F2+PMOS_SND_M1+PMOS_SND_M2)/4

Calculated Value: 3.8 MOS Ok

Ok

4/18/2023 4:24 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P02A Send path - avg latency over E2E, Index: 1

Correction

DELAY_SND_F1	199.587 ms	4/18/2023	Measured	Super Wideband MOS (P.863) SND - female run 1
DELAY_SND_M1	199.690 ms	4/18/2023	Measured	Super Wideband MOS (P.863) SND - male run 1
DELAY_SND_F2	199.970 ms	4/18/2023	Measured	Super Wideband MOS (P.863) SND - female run 2
DELAY_SND_M2	199.767 ms	4/18/2023	Measured	Super Wideband MOS (P.863) SND - male run 2

(DELAY_SND_F1+DELAY_SND_M1+DELAY_SND_F2+DELAY_SND_M2) / 4

Calculated Value: 199.8 ms Ok

Ok

4/18/2023 4:24 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P03A Send path: signal level with normal speech, Index: 1

Correction

SNDLVL_N_AR_SHAR1.5	-15.900 dBm0	4/18/2023	Measured	Rec. for P03A Send path signal level with normal speech

SNDLVL_N_AR_SHAR1.5

Calculated Value: -15.9 Ok

Ok

4/18/2023 4:25 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P04A Send path - signal level with quiet speech, Index: 1

Correction

SNDLVL_Q_AR_SHAR1.5	-17.150 dBm0	4/18/2023	Measured	Rec. for P04A Send path signal level with quiet speech

SNDLVL_Q_AR_SHAR1.5

Calculated Value: -17.1 Ok

Ok

4/18/2023 4:26 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P05A Send path - idle channel SpNR , Index: 1

Correction

SND_SP_LVL_SHAR1.5	-14.950 dBm0	4/18/2023	Measured	Graph for P05A- P06A - speech level
SND_IDLE_NOI_SHAR1.5	-66.590 dBm0	4/18/2023	Measured	Graph for P05A - idle channel noise A-weight

SND_SP_LVL_SHAR1.5 - SND_IDLE_NOI_SHAR1.5

Calculated Value: 52 Ok

Ok

4/18/2023 4:27 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P06A Send path - active channel SpNR, Index: 1

Correction

SND_SP_LVL_SHAR1.5	-14.950 dBm0	4/18/2023	Measured	Graph for P05A- P06A - speech level
SND_ACT_NOI_SHAR1.5	-57.020 dBm0	4/18/2023	Measured	Graph for P06A - active channel noise A-weight

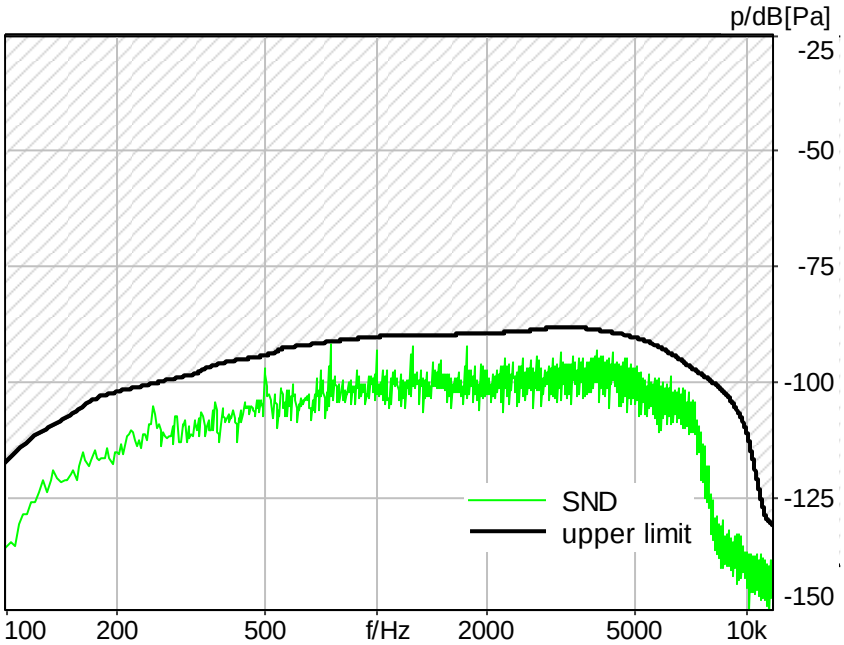
SND_SP_LVL_SHAR1.5 - SND_ACT_NOI_SHAR1.5

Calculated Value: 42 Ok

Ok

4/18/2023 4:27 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P07A Single Frequency Interference SND, Index: 1



Absolute minimal distance
0.31 dB at 750.0 Hz Ok

Ok

4/18/2023 4:28 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

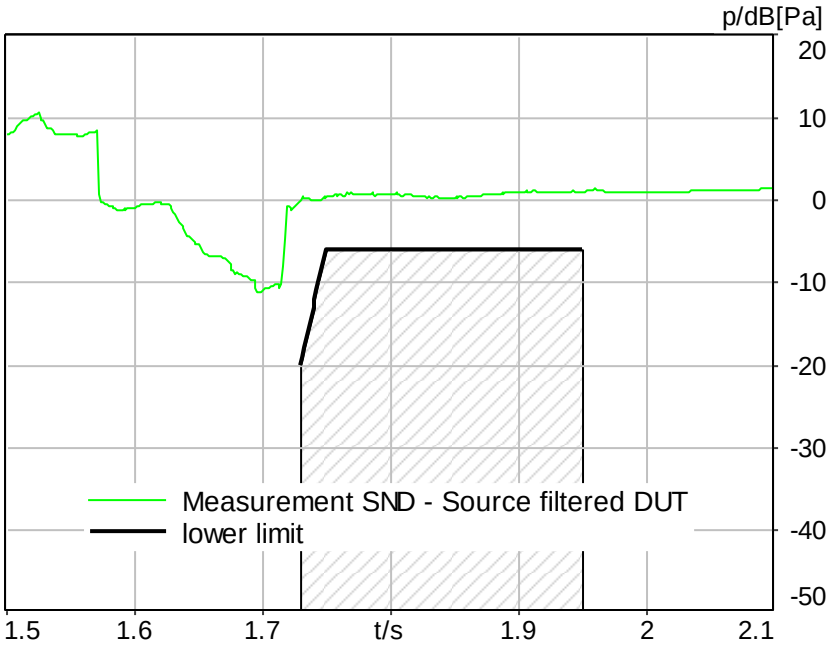
If this tescase shows a failing result then please check next SMD for the peak noise level value.
If the peak interference noise level measured is below -80dBV then the result of send interference noise test can be marked as Pass over ruling the calculated result.

P08A Send path - distortion and noise, Index: 1

Variable Name	Distortion Value [dB]	Lower Limit [dB]	Frequency Range [Hz]	Center Frequency [Hz]	Pass/Fail
iso24_89_SP	39.21	30	224...282	250	Pass
iso25_89_SP	41.61	30	282...355	315	Pass
iso26_89_SP	44.09	30	355...447	400	Pass
iso27_89_SP	47.59	30	447...562	500	Pass
iso28_89_SP	45.53	30	562...708	630	Pass
iso29_89_SP	47.76	30	708...891	800	Pass
iso30_89_SP	47.9	30	891...1122	1000	Pass
iso31_89_SP	47.62	30	1122...1413	1250	Pass
iso32_89_SP	48.82	30	1413...1778	1600	Pass
iso33_89_SP	48.73	30	1778...2239	2000	Pass
iso34_89_SP	47.21	30	2239...2818	2500	Pass
iso35_89_SP	44.86	30	2818...3548	3150	Pass
iso36_89_SP	48.9	30	3548...4467	4000	Pass
iso37_89_SP	51.33	28	4467...5623	5000	Pass

4/18/2023 4:30 PM ACQUA

P09A Send path- act. sens.- 2nd mask - Shared Space, Index: 1



Absolute minimal distance

6.18 dB at 1.837 s Ok

Ok

4/18/2023 4:31 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

P10A Send path: SpNR with maximum microphone gain , Index: 1

Correction

spnr_89	53.100 dB	4/18/2023	Measured	Analysis - SpNR - 89dBSPL
spnr_86	50.700 dB	4/18/2023	Measured	Analysis - SpNR - 86dBSPL
spnr_83	47.500 dB	4/18/2023	Measured	Analysis - SpNR - 83dBSPL
spnr_80	44.800 dB	4/18/2023	Measured	Analysis - SpNR - 80dBSPL
spnr_77	41.300 dB	4/18/2023	Measured	Analysis - SpNR - 77dBSPL

min (min(min (min (spnr_89, spnr_86), spnr_83) ,spnr_80) ,spnr_77)

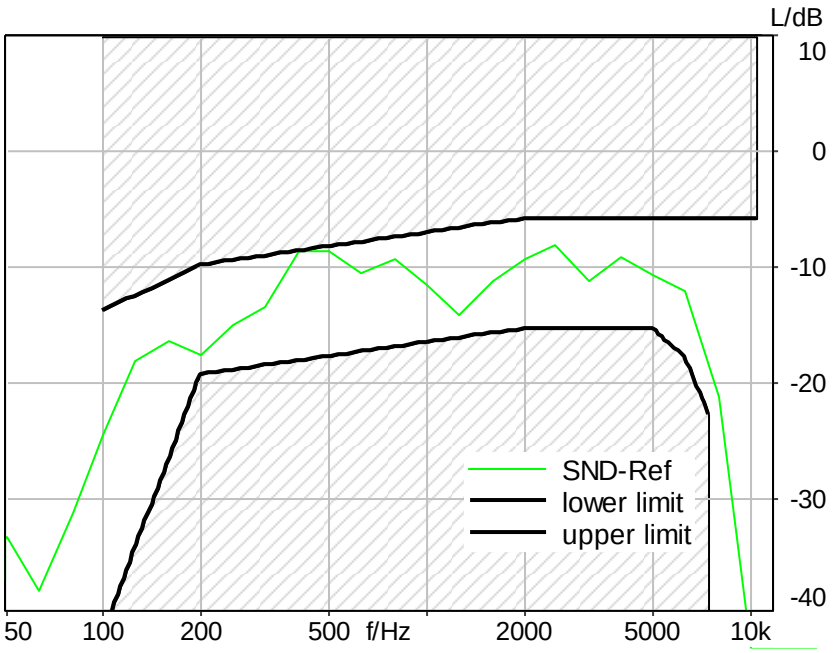
Calculated Value: 41.3 dB Ok

Ok

4/18/2023 4:33 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

P11A Send path - freq. resp.- Shared Space Speakerphone, Index: 1



Absolute minimal distance

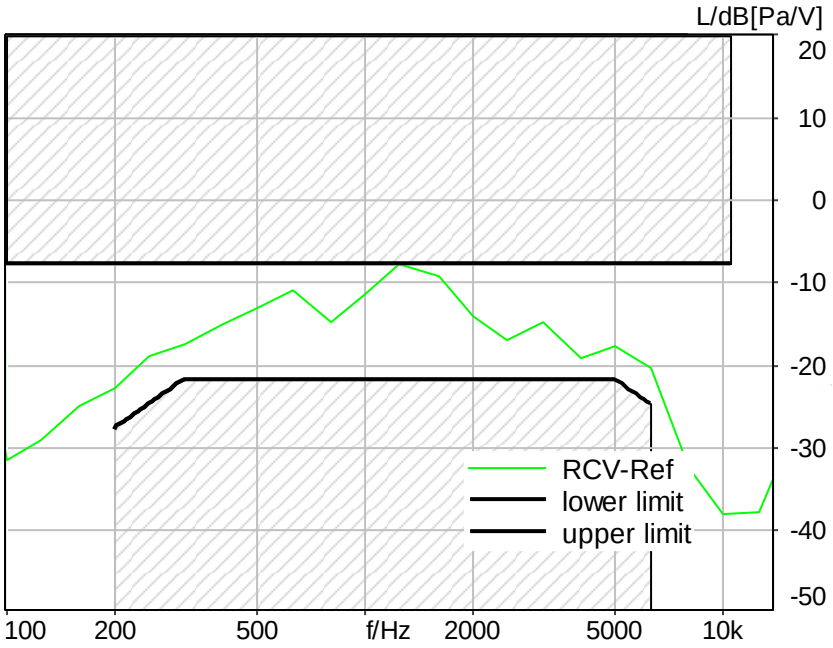
1.79 dB at 200.0 Hz Ok

Ok

4/18/2023 5:15 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

P18A Receive path - freq. resp. - Shared Space Sp., Index: 1



Absolute minimal distance
2.65 dB at 4000.0 Hz Ok

Ok

4/18/2023 5:15 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P12A Receive path - output level - Shared - up to 1.5m, Index: 1

Level RCV: 67.59 dB[SPL] Ok

Ok

4/18/2023 4:36 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P13A Receive path - avg MOS-LQO - Shared Space Sp., Index: 1

Correction

PMOS_RCV_F1	3.300	4/18/2023	Measured	Super Wideband MOS (P.863) RCV - female run 1
PMOS_RCV_F2	3.300	4/18/2023	Measured	Super Wideband MOS (P.863) RCV -

				female run 2
PMOS_RCV_M1	3.600	4/18/2023	Measured	Super Wideband MOS (P.863) RCV - male run 1
PMOS_RCV_M2	3.600	4/18/2023	Measured	Super Wideband MOS (P.863) RCV - male run 2

(PMOS_RCV_F1+PMOS_RCV_F2+PMOS_RCV_M1+PMOS_RCV_M2)/4

Calculated Value: 3.45 MOS Not Ok

Not Ok

4/18/2023 4:37 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P14A Receive path - avg latency over E2E call, Index: 1

Correction

DELAY_RCV_F1	213.942 ms	4/18/2023	Measured	Super Wideband MOS (P.863) RCV - female run 1
DELAY_RCV_M1	214.342 ms	4/18/2023	Measured	Super Wideband MOS (P.863) RCV - male run 1
DELAY_RCV_F2	213.373 ms	4/18/2023	Measured	Super Wideband MOS (P.863) RCV - female run 2
DELAY_RCV_M2	213.748 ms	4/18/2023	Measured	Super Wideband MOS (P.863) RCV - male run 2

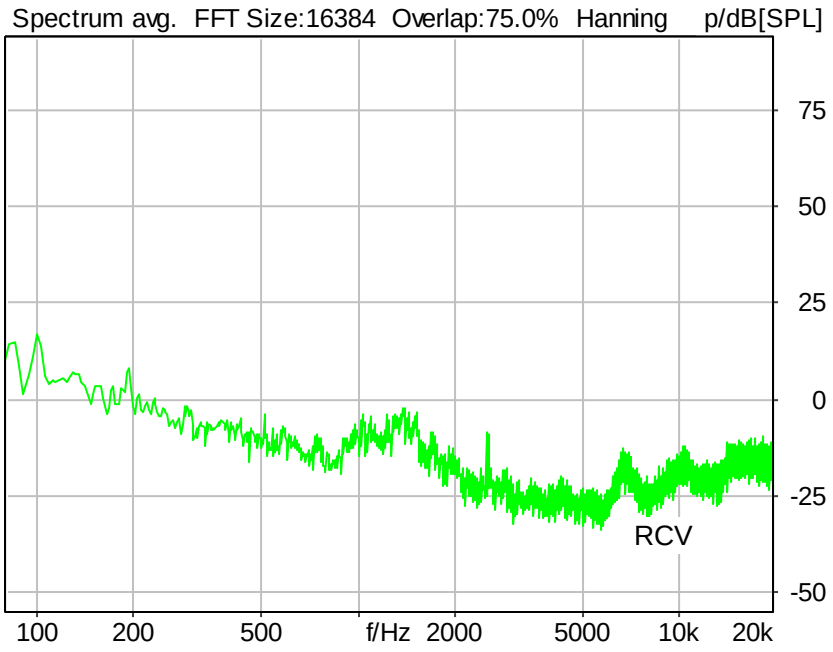
(DELAY_RCV_F1+DELAY_RCV_M1+DELAY_RCV_F2+DELAY_RCV_M2)/4

Calculated Value: 213.85 ms Not Ok

Not Ok

4/18/2023 4:37 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P15A Receive idle channel noise - Personal/Shared space, Index: 1

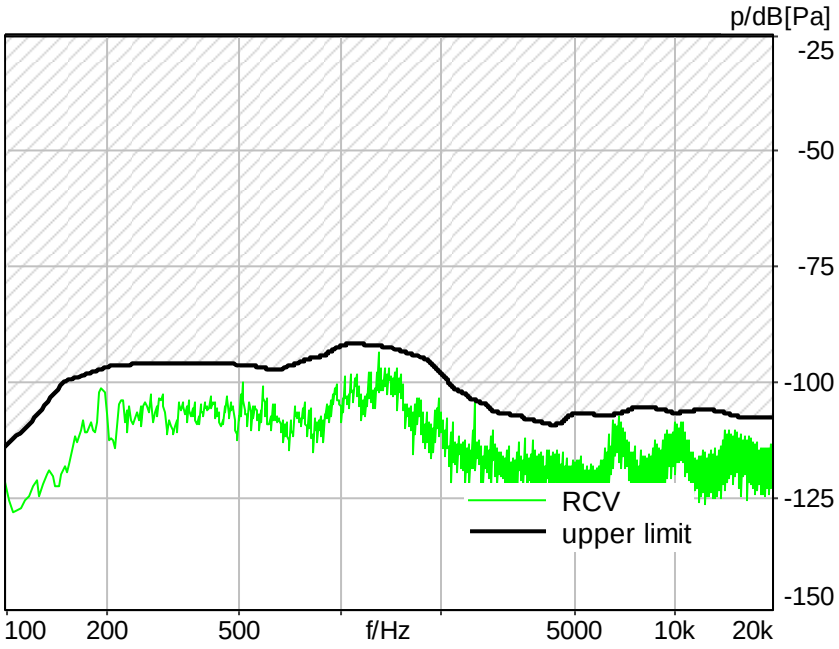


Level: 18.28 dB[SPL](A) Ok

Ok

4/18/2023 4:37 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P16A Single Frequency Interference RCV , Index: 1



Absolute minimal distance
0.13 dB at 2507.8 Hz Ok

Ok

4/18/2023 4:38 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

If this tescase shows a failing result then please check next SMD for the peak noise level value.

If the peak interference noise level measured is below 24dBSPL then the result of receive interference noise test can be marked as Pass over ruling the calculated result.

P17A Receive path - distortion and noise - Shared Space, Index: 1

Variable Name	Distortion Value [dB]	Lower Limit [dB]	Frequency Range [Hz]	Center Frequency [Hz]	Pass/Fail
iso24_16_SP	34.85	20	224...282	250	Pass
iso25_16_SP	38.96	20	282...355	315	Pass
iso26_16_SP	39.77	22	355...447	400	Pass
iso27_16_SP	46.52	24	447...562	500	Pass
iso28_16_SP	41.72	24	562...708	630	Pass
iso29_16_SP	45.46	24	708...891	800	Pass
iso30_16_SP	45.28	24	891...1122	1000	Pass
iso31_16_SP	51.14	24	1122...1413	1250	Pass
iso32_16_SP	48.87	24	1413...1778	1600	Pass
iso33_16_SP	40.93	24	1778...2239	2000	Pass
iso34_16_SP	37.96	24	2239...2818	2500	Pass
iso35_16_SP	39.83	24	2818...3548	3150	Pass
iso36_16_SP	34.74	24	3548...4467	4000	Pass
iso37_16_SP	36.52	24	4467...5623	5000	Pass

4/18/2023 5:09 PM ACQUA

P19A Receive path - no extra gain for quiet signals, Index: 1

Correction

DRC_gain_1	-65.910 dB[Pa]	4/26/2023	Measured	Analysis P19A compression - quiet signal - beginning
DRC_gain_2	-66.420 dB[Pa]	4/26/2023	Measured	Analysis P19A compression - quiet signal - end

DRC_gain_2 - DRC_gain_1

Calculated Value: -0.51 Ok

Ok

4/26/2023 3:26 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P20A Echo path - terminal coupling loss (TCL) , Index: 1

Correction

echo_tcl_e2e	56.660 dB	4/26/2023	Measured	Recording for P20A terminal coupling loss (TCL)
snd_normal_tcl_e2e	-15.310 dBm0	4/26/2023	Measured	Send path - signal level with normal speech for TCL

echo_tcl_e2e + (snd_normal_tcl_e2e - (-18))

Calculated Value: 59 dB Ok

Ok

4/26/2023 11:43 AM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P21A Echo path - EQUEST nomvol - worst of 6, Index: 1

Correction

EMOS_E2E_AR_NOM_1	5.000	4/26/2023	Measured	Echo path - P21A EQUEST nomvol (male) 1/6
EMOS_E2E_AR_NOM_2	4.400	4/26/2023	Measured	Echo path - P21A EQUEST nomvol (female) 2/6
EMOS_E2E_AR_NOM_3	5.000	4/26/2023	Measured	Echo path - P21A EQUEST nomvol (male) 3/6
EMOS_E2E_AR_NOM_4	5.000	4/26/2023	Measured	Echo path - P21A EQUEST

				nomvol (male) 4/6
EMOS_E2E_AR_NOM_5	4.500	4/26/2023	Measured	Echo path - P21A EQUEST nomvol (female) 5/6
EMOS_E2E_AR_NOM_6	4.400	4/26/2023	Measured	Echo path - P21A EQUEST nomvol (female) 6/6

min (min (min(min (min (EMOS_E2E_AR_NOM_1, EMOS_E2E_AR_NOM_2), EMOS_E2E_AR_NOM_3) ,EMOS_E2E_AR_NOM_4) ,EMOS_E2E_AR_NOM_5) ,EMOS_E2E_AR_NOM_6)

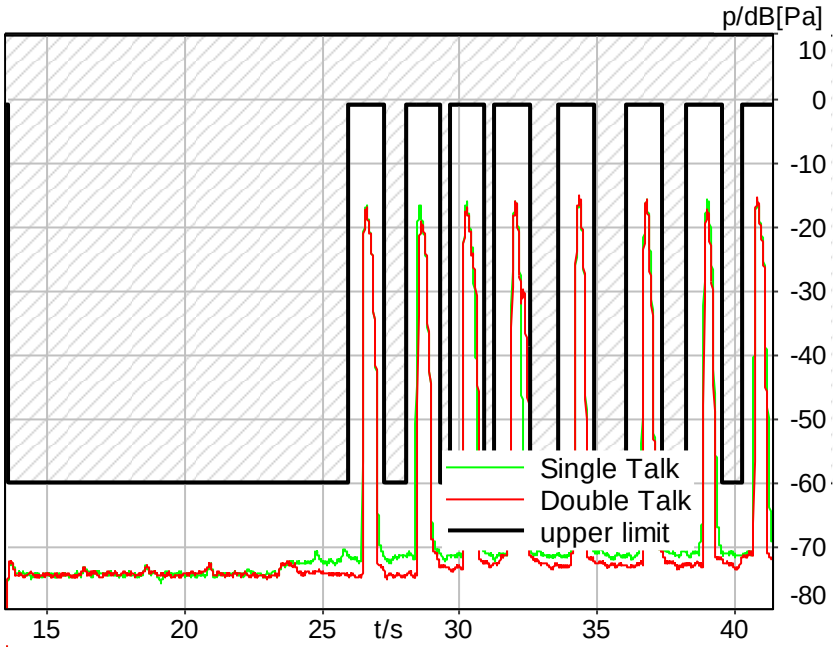
Calculated Value: 4.4 MOS Ok

Ok

4/26/2023 11:45 AM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

P22A Echo path - echo dur alt. SND-RCV P1- ARnom - 1.5m, Index: 1



Absolute minimal distance

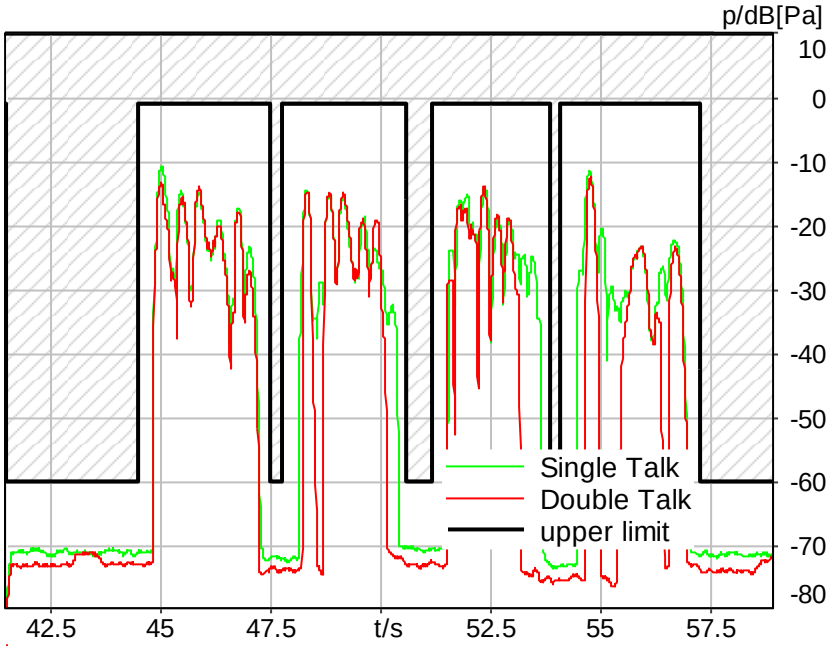
9.91 dB at 35.095 s Ok

Ok

4/26/2023 11:48 AM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

P22A Echo path - echo dur alt. SND-RCV P2- ARnom - 1.5m, Index: 1



Absolute minimal distance
9.64 dB at 45.031 s Ok

Ok

4/26/2023 11:48 AM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P23A Echo path - SND attn. dur. DT - ARNom - 1.5m, Index: 1

Correction

DTatt_E2E_NOM_1_SH15	2.559 dB	4/26/2023	Measured	Analysis P23A - SNDattn.during DT P1 - ARNom - 1.5m
DTatt_E2E_NOM_2_SH15	10.200 dB	4/26/2023	Measured	Analysis P23A - SNDattn.during DT P2 - ARNom - 1.5m

max (DTatt_E2E_NOM_1_SH15, DTatt_E2E_NOM_2_SH15)

Calculated Value: 10.2 dB Ok

Ok

4/26/2023 11:48 AM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P01R Send quality with ambient noise - avg S-MOS, Index: 1

Correction

S_MOS_E2E_PROJ_SHAR	4.082	4/18/2023	Measured	A. Analyze 3QUEST - Projector noise - Pos1
S_MOS_E2E_CONF_SHAR	4.172	4/18/2023	Measured	B. Analyze 3QUEST - Conference 3 noise - Pos1

1/2 * (S_MOS_E2E_PROJ_SHAR + S_MOS_E2E_CONF_SHAR)

Calculated Value: 4.13 MOS (Avg) Ok

Ok

4/18/2023 6:28 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P02R Send quality with ambient noise - avg N-MOS , Index: 1

Correction

N_MOS_E2E_PROJ_SHAR	3.940	4/18/2023	Measured	A. Analyze 3QUEST - Projector noise - Pos1
N_MOS_E2E_CONF_SHAR	3.649	4/18/2023	Measured	B. Analyze 3QUEST - Conference 3 noise - Pos1

1/2 * (N_MOS_E2E_PROJ_SHAR + N_MOS_E2E_CONF_SHAR)

Calculated Value: 3.79 MOS (Avg) Ok

Ok

4/18/2023 6:28 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P03R Send path - Average Alter. talker1&2 S-MOS, Index: 1

Correction

S_MOS_MIN_T1_SHAR	4.500 MOS	4/18/2023	Measured	Calc P03R Send path - Altern. talker S-MOS - Talker 1
S_MOS_MIN_T2_SHAR	4.300 MOS	4/18/2023	Measured	Calc P03R Send path - Altern.

				talker S-MOS - Talker 2

min(S_MOS_MIN_T1_SHAR, S_MOS_MIN_T2_SHAR)

Calculated Value: 4.3 MOS Ok

Ok

4/18/2023 6:17 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P04R Send path - Average Alter. talker 1&2 - Level, Index: 1

Correction

LVL_ALT_T1	-16.600 dB	4/18/2023	Measured	Calc P04R Send - Alternating talker level - Talker 1
LVL_ALT_T2	-16.600 dB	4/18/2023	Measured	Calc P04R Send - Alternating talker level - Talker 2

min(LVL_ALT_T1, LVL_ALT_T2)

Calculated Value: -16.6 dB Ok

Ok

4/18/2023 6:17 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P05R Receive path: output level in reverber - upto 1.5m, Index: 1

Level RCV: 67.37 dB[SPL](C) Ok

Ok

4/19/2023 10:34 AM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P06R Echo path - EQUEST nomvol - worst of 6, Index: 3

Correction

EMOS_E2ERR_NOM_SHAR1	5.000	4/26/2023	Measured	Echo path - P06R EQUEST RR nomvol (male) 1/6
EMOS_E2ERR_NOM_SHAR2	4.400	4/26/2023	Measured	Echo path - P06R EQUEST RR nomvol (female) 2/6

EMOS_E2ERR_NOM_SHAR3	5.000	4/26/2023	Measured	Echo path - P06R EQUEST RR nomvol (male) 3/6
EMOS_E2ERR_NOM_SHAR4	5.000	4/26/2023	Measured	Echo path - P06R EQUEST RR nomvol (male) 4/6
EMOS_E2ERR_NOM_SHAR5	4.500	4/26/2023	Measured	Echo path - P06R EQUEST RR nomvol (female) 5/6
EMOS_E2ERR_NOM_SHAR6	4.400	4/26/2023	Measured	Echo path - P06R EQUEST RR nomvol (female) 6/6

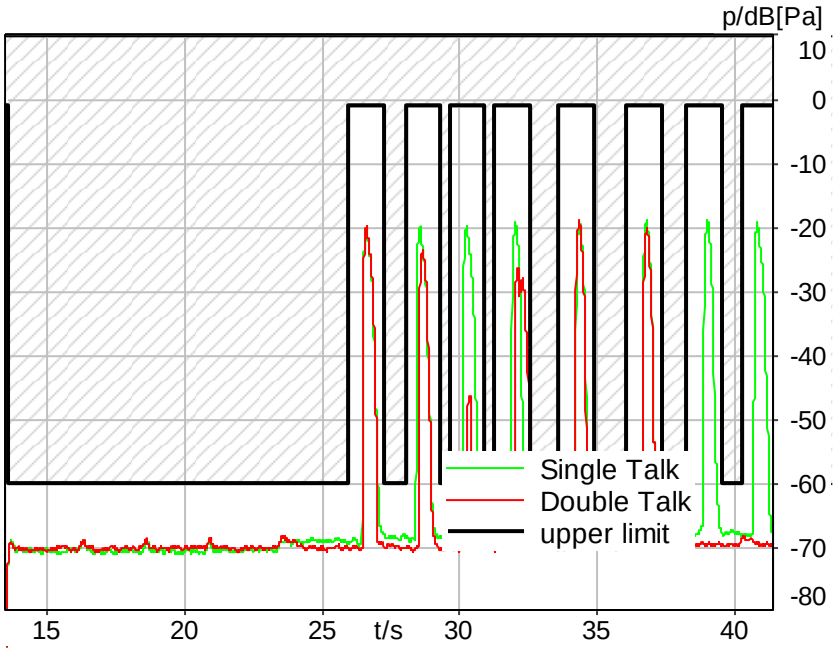
min (min (min(min (min (EMOS_E2ERR_NOM_SHAR1, EMOS_E2ERR_NOM_SHAR2), EMOS_E2ERR_NOM_SHAR3) ,EMOS_E2ERR_NOM_SHAR4) ,EMOS_E2ERR_NOM_SHAR5) ,EMOS_E2ERR_NOM_SHAR6)

Calculated Value: 4.40 MOS Ok

Ok

4/26/2023 1:42 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P07R Echo Path- A-wt echo during alt. SND-RCV P1-Reverb, Index: 3



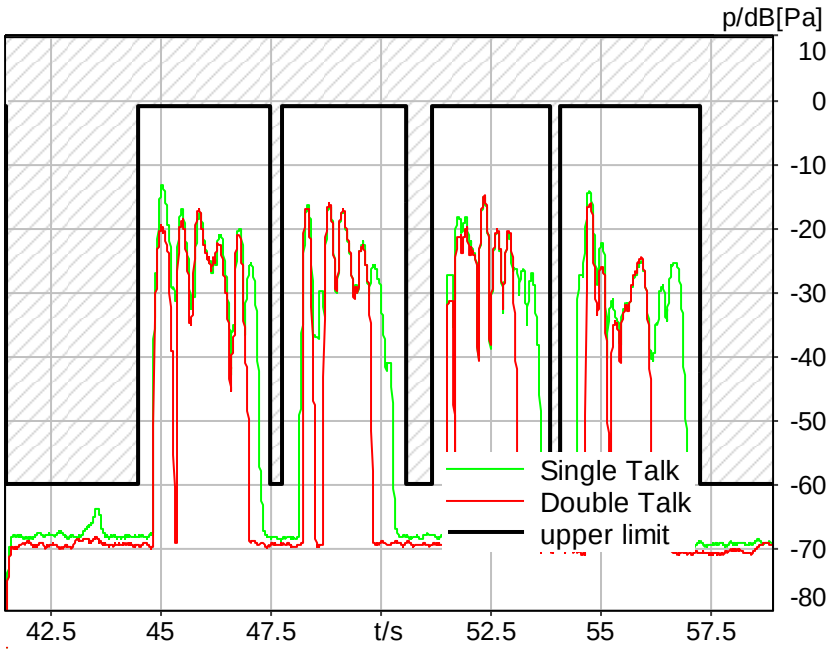
Absolute minimal distance
7.09 dB at 39.884 s Ok

Ok

4/26/2023 1:45 PM ACQUA 5.1.200

Unmodified HEAD acoustics Measurement Descriptor

P07R Echo Path- A-wt echo during alt. SND-RCV P2-Reverb, Index: 3

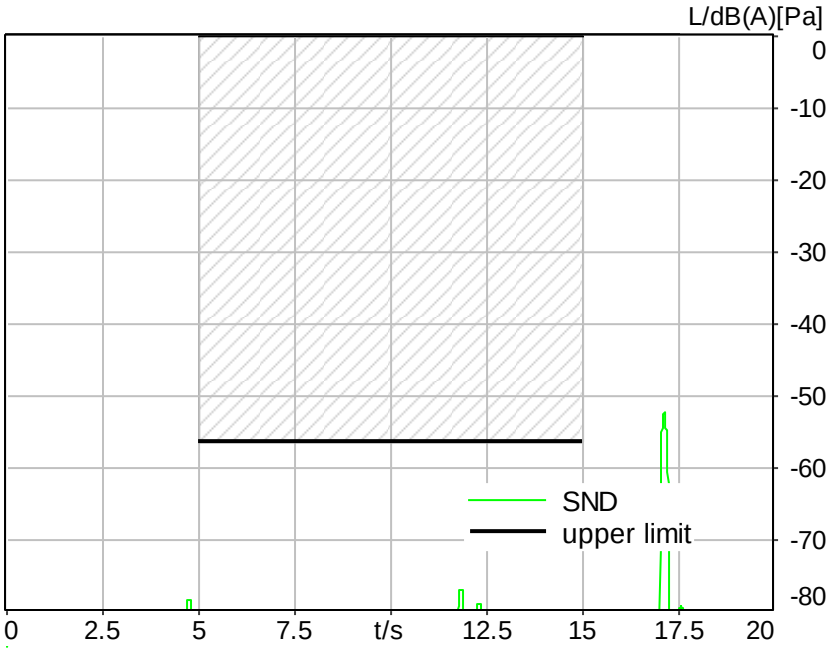


Absolute minimal distance
3.54 dB at 43.537 s Ok

Ok

4/26/2023 1:45 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor

P08R Echo path -AEC convergence test A-wt at call start, Index: 1



Absolute minimal distance
20.58 dB at 11.771 s Ok

Ok

4/26/2023 1:33 PM ACQUA 5.1.200
Unmodified HEAD acoustics Measurement Descriptor