

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021523\
 Data File : VL040171.D
 Acq On : 15 Feb 2023 11:46
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/16/2023
 Supervised By :Mahesh Dadoda 02/18/2023

Quant Time: Feb 15 12:17:07 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 15 11:34:13 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.182	49	997711	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2579590	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2387673	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.780 95 1948331 9.818 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.716	85	210582	1.204	ppbv	94
3) Chlorodifluoromethane	2.658	51	126014	1.053	ppbv	99
4) Chloromethane	2.800	50	77826	1.052	ppbv	99
5) Vinyl Chloride	2.906	62	60285	0.961	ppbv	99
6) Bromomethane	3.105	94	22272	0.973	ppbv	95
7) Chloroethane	3.185	64	25458	1.062	ppbv	94
8) Dichlorotetrafluoroethane	2.841	85	167328	1.025	ppbv	96
9) Propene	2.681	41	52514	1.056	ppbv	99
10) Heptane	7.574	43	117441	1.025	ppbv	96
11) Trichlorofluoromethane	3.549	101	171954	0.985	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.057	101	127905	0.975	ppbv	98
13) Ethanol	3.237	45	5892m	1.288	ppbv	
14) Bromoethene	3.353	108	46781	0.960	ppbv	95
15) Acetone	3.465	43	123360	1.031	ppbv	92
16) 1,3-Butadiene	2.973	39	56786	1.018	ppbv	98
17) tert-Butyl alcohol	3.880	59	115351	1.035	ppbv	98
18) 1,1-Dichloroethene	3.867	96	56768	0.995	ppbv	90
19) Isopropyl Alcohol	3.574	45	59952	1.024	ppbv #	93
20) Methylene Chloride	3.925	84	73367	1.390	ppbv	96
21) Allyl Chloride	3.986	41	76156	0.991	ppbv	96
22) trans-1,2-Dichloroethene	4.436	96	54659	0.938	ppbv	94
23) Vinyl Acetate	4.619	43	36128m	0.931	ppbv	
24) 1,1-Dichloroethane	4.552	63	119571	1.018	ppbv	98
25) Ethyl Acetate	5.198	43	228700	1.085	ppbv	99
26) Hexane	5.205	57	105938m	1.148	ppbv	
27) Carbon Disulfide	4.115	76	111220	0.931	ppbv	99
28) Methyl tert-Butyl Ether	4.581	73	107174	1.033	ppbv	99
29) Chloroform	5.266	83	169493	1.149	ppbv	98
30) Cyclohexane	6.600	84	81126m	1.106	ppbv	
31) cis-1,2-Dichloroethene	5.073	61	95067	1.064	ppbv	94
32) 1,1,1-Trichloroethane	5.992	97	159651	1.065	ppbv	98
34) 2-Butanone	4.783	43	138541m	1.135	ppbv	
35) Carbon Tetrachloride	6.484	117	162680	1.115	ppbv	98
36) Benzene	6.362	78	211925	1.110	ppbv	98
37) 1,2-Dichloroethane	5.799	62	129875	1.058	ppbv	100
38) Trichloroethene	7.282	130	118115	1.090	ppbv	99
39) 1,2-Dichloropropane	7.069	63	79846m	1.069	ppbv	
40) 1,4-Dioxane	7.307	88	33066m	1.116	ppbv	
41) Tetrahydrofuran	5.561	42	78039m	1.108	ppbv	
42) Bromodichloromethane	7.243	83	172165	1.039	ppbv	97
43) Methyl Methacrylate	7.471	69	73923	1.055	ppbv	98
44) 2,2,4-Trimethylpentane	7.323	57	355902	1.121	ppbv	100
45) t-1,3-Dichloropropene	8.709	75	56484	0.904	ppbv	94

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QLast Update : Wed Feb 15 11:34:13 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.140	75	83818	0.982	ppbv	93
47) 1,1,2-Trichloroethane	8.896	97	86555	1.101	ppbv	98
48) Dibromochloromethane	9.709	129	129258	1.023	ppbv	99
49) Bromoform	12.407	173	96896	0.995	ppbv	99
50) 4-Methyl-2-Pentanone	8.192	43	202380	1.054	ppbv	100
51) 2-Hexanone	9.561	43	150124m	1.032	ppbv	
52) Tetrachloroethene	10.616	164	68255	1.093	ppbv	97
53) Toluene	9.217	91	218925	1.075	ppbv	100
54) 1,2-Dibromoethane	10.005	107	88207	1.072	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.507	131	99536	1.071	ppbv #	1
57) Chlorobenzene	11.523	112	181894	1.118	ppbv	98
58) Ethyl Benzene	12.089	91	302635	1.136	ppbv	94
59) m/p-Xylene	12.375	91	539892m	2.254	ppbv	
60) o-Xylene	13.063	91	260122	1.144	ppbv	99
61) Styrene	12.899	104	130676m	1.103	ppbv	
62) Isopropylbenzene	14.031	105	379687	1.161	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.056	83	96140m	1.164	ppbv	
64) n-propylbenzene	14.918	120	89802	1.104	ppbv	83
65) tert-Butylbenzene	16.095	119	330220	1.179	ppbv	95
66) Benzyl Chloride	16.326	91	19196m	1.003	ppbv	
67) sec-Butylbenzene	16.641	105	473426	1.193	ppbv	99
69) p-Isopropyltoluene	16.998	119	365242	1.171	ppbv	97
70) n-Butylbenzene	17.892	91	404339	1.202	ppbv	97
71) 2-Chlorotoluene	14.802	91	287059	1.141	ppbv	99
72) 4-Ethyltoluene	15.195	105	283116	1.122	ppbv	99
73) 1,3,5-Trimethylbenzene	15.352	105	269282m	1.185	ppbv	
74) 1,2,4-Trimethylbenzene	16.111	105	294917	1.172	ppbv	95
75) 1,3-Dichlorobenzene	16.333	146	153955	1.101	ppbv	96
76) 1,4-Dichlorobenzene	16.481	146	151084	1.099	ppbv	95
77) 1,2-Dichlorobenzene	17.149	146	160605m	1.201	ppbv	
78) Hexachloro-1,3-Butadiene	22.644	225	115664m	1.181	ppbv	
79) Naphthalene	21.397	128	168417m	1.168	ppbv	
80) Naphthalene,2-methyl-	24.390	142	29901	0.615	ppbv	87
81) 1,2,4-Trichlorobenzene	21.156	180	100128m	1.127	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

