

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071023\
 Data File : VL040507.D
 Acq On : 10 Jul 2023 12:28
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/11/2023
 Supervised By : Mahesh Dadoda 07/11/2023

Quant Time: Jul 10 13:28:14 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 11 2023

QLast Update : Tue Jun 06 06:22:12 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.201	49	1137002	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.664	114	3080559	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2945686	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 2210761 9.093 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 90.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.735	85	453460	1.833	ppbv	99
3) Chlorodifluoromethane	2.681	51	372019	1.998	ppbv	94
4) Chloromethane	2.819	50	145475	2.018	ppbv	95
5) Vinyl Chloride	2.928	62	158053	2.197	ppbv	99
6) Bromomethane	3.127	94	61045	1.639	ppbv	91
7) Chloroethane	3.201	64	54941	2.045	ppbv	95
8) Dichlorotetrafluoroethane	2.864	85	376146	1.925	ppbv	97
9) Propene	2.700	41	131710	2.294	ppbv	98
10) Heptane	7.590	43	295621	2.274	ppbv	100
11) Trichlorofluoromethane	3.571	101	368577	1.829	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.076	101	255702	1.817	ppbv	94
13) Ethanol	3.259	45	30244	2.543	ppbv	96
14) Bromoethene	3.375	108	113537	1.928	ppbv	99
15) Acetone	3.478	43	261910	1.910	ppbv	93
16) 1,3-Butadiene	2.992	39	133904	2.006	ppbv	96
17) tert-Butyl alcohol	3.886	59	266419	2.363	ppbv	98
18) 1,1-Dichloroethene	3.886	96	118383m	1.887	ppbv	
19) Isopropyl Alcohol	3.584	45	156712	2.371	ppbv	98
20) Methylene Chloride	3.938	84	113467	1.939	ppbv	92
21) Allyl Chloride	4.002	41	148782	1.921	ppbv	97
22) trans-1,2-Dichloroethene	4.452	96	115952	1.802	ppbv	96
23) Vinyl Acetate	4.635	43	240836	1.798	ppbv	99
24) 1,1-Dichloroethane	4.571	63	254851	1.897	ppbv	99
25) Ethyl Acetate	5.217	43	527222	2.122	ppbv	99
26) Hexane	5.221	57	250116	2.126	ppbv	98
27) Carbon Disulfide	4.134	76	271444	1.844	ppbv	97
28) Methyl tert-Butyl Ether	4.597	73	189195	2.088	ppbv	98
29) Chloroform	5.282	83	386711	1.929	ppbv	99
30) Cyclohexane	6.610	84	208520	2.199	ppbv	94
31) cis-1,2-Dichloroethene	5.086	61	233756	2.076	ppbv	94
32) 1,1,1-Trichloroethane	6.012	97	376855	1.905	ppbv	98
34) 2-Butanone	4.796	43	324041	2.181	ppbv	98
35) Carbon Tetrachloride	6.504	117	379135	1.806	ppbv	97
36) Benzene	6.378	78	522059	2.131	ppbv	96
37) 1,2-Dichloroethane	5.812	62	295090	1.848	ppbv	98
38) Trichloroethene	7.301	130	203969	2.197	ppbv	96
39) 1,2-Dichloropropane	7.082	63	192692	2.040	ppbv	89
40) 1,4-Dioxane	7.311	88	65045	2.431	ppbv #	100
41) Tetrahydrofuran	5.571	42	186965	2.303	ppbv	99
42) Bromodichloromethane	7.259	83	406227	1.848	ppbv	94
43) Methyl Methacrylate	7.484	69	192595	2.188	ppbv	98
44) 2,2,4-Trimethylpentane	7.336	57	852680	2.129	ppbv	98
45) t-1,3-Dichloropropene	8.722	75	112872	1.737	ppbv	96

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

QLast Update : Tue Jun 06 06:22:12 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.156	75	158920	2.006	ppbv	92
47) 1,1,2-Trichloroethane	8.909	97	217111	2.091	ppbv	98
48) Dibromochloromethane	9.722	129	325840	1.963	ppbv	99
49) Bromoform	12.423	173	256633	2.044	ppbv	99
50) 4-Methyl-2-Pentanone	8.198	43	460058	2.312	ppbv	96
51) 2-Hexanone	9.568	43	321216	2.326	ppbv #	95
52) Tetrachloroethene	10.629	164	180180	2.342	ppbv	97
53) Toluene	9.233	91	575864	2.231	ppbv	100
54) 1,2-Dibromoethane	10.021	107	279029	2.050	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.526	131	260724	1.883	ppbv #	1
57) Chlorobenzene	11.539	112	472575	2.123	ppbv	95
58) Ethyl Benzene	12.105	91	791159	2.217	ppbv	100
59) m/p-Xylene	12.378	91	1386375m	4.227	ppbv	
60) o-Xylene	13.072	91	662442	2.129	ppbv	99
61) Styrene	12.912	104	307720	2.298	ppbv	97
62) Isopropylbenzene	14.040	105	983499	2.127	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.063	83	474132	2.354	ppbv	97
64) n-propylbenzene	14.931	120	257094	2.190	ppbv	97
65) tert-Butylbenzene	16.101	119	895353	2.257	ppbv	97
66) Benzyl Chloride	16.346	91	52650m	1.722	ppbv	
67) sec-Butylbenzene	16.648	105	1307327	2.260	ppbv	99
69) p-Isopropyltoluene	17.008	119	1086423	2.363	ppbv	97
70) n-Butylbenzene	17.902	91	1202742	2.344	ppbv	99
71) 2-Chlorotoluene	14.815	91	763650	2.224	ppbv	98
72) 4-Ethyltoluene	15.207	105	791269	2.258	ppbv	99
73) 1,3,5-Trimethylbenzene	15.365	105	692752	2.237	ppbv	95
74) 1,2,4-Trimethylbenzene	16.121	105	807031	2.215	ppbv	98
75) 1,3-Dichlorobenzene	16.346	146	465112	2.276	ppbv	99
76) 1,4-Dichlorobenzene	16.487	146	452843	2.279	ppbv	100
77) 1,2-Dichlorobenzene	17.159	146	455001	2.357	ppbv	99
78) Hexachloro-1,3-Butadiene	22.648	225	426999	2.868	ppbv	99
79) Naphthalene	21.400	128	758253	3.613	ppbv	99
80) Naphthalene,2-methyl-	24.390	142	289259	4.593	ppbv	97
81) 1,2,4-Trichlorobenzene	21.156	180	472843	3.637	ppbv	100

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

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