

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111822\
 Data File : VL039897.D
 Acq On : 18 Nov 2022 9:26
 Operator : SY/AP
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/21/2022
 Supervised By : Mahesh Dadoda 11/21/2022

Quant Time: Nov 18 11:18:14 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 19 2022

QLast Update : Fri Nov 18 11:17:48 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1324214	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3964819	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	3808552	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.777 95 2858867 10.029 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.710	85	336674	1.506	ppbv	96
3) Chlorodifluoromethane	2.655	51	374618	2.373	ppbv	100
4) Chloromethane	2.793	50	234968	2.390	ppbv	98
5) Vinyl Chloride	2.903	62	203352	2.555	ppbv	98
6) Bromomethane	3.102	94	62984	2.219	ppbv	86
7) Chloroethane	3.179	64	68926	2.311	ppbv	90
8) Dichlorotetrafluoroethane	2.838	85	445144	2.336	ppbv	99
9) Propene	2.671	41	167176	2.032	ppbv	94
10) Heptane	7.565	43	426562	2.165	ppbv	98
11) Trichlorofluoromethane	3.542	101	463392	2.541	ppbv	96
12) 1,1,2-Trichlorotrifluoro...	4.047	101	351594	2.670	ppbv	100
13) Ethanol	3.243	45	14336m	2.466	ppbv	
14) Bromoethene	3.346	108	139322	2.363	ppbv	95
15) Acetone	3.456	43	366911	2.276	ppbv	98
16) 1,3-Butadiene	2.964	39	184564	2.462	ppbv	97
17) tert-Butyl alcohol	3.867	59	386818	2.520	ppbv	100
18) 1,1-Dichloroethene	3.861	96	163854	2.714	ppbv	96
19) Isopropyl Alcohol	3.565	45	180304	2.260	ppbv #	33
20) Methylene Chloride	3.915	84	193369	3.353	ppbv	94
21) Allyl Chloride	3.976	41	253079	2.482	ppbv	99
22) trans-1,2-Dichloroethene	4.430	96	161232	2.631	ppbv	96
23) Vinyl Acetate	4.607	43	137738	2.145	ppbv #	94
24) 1,1-Dichloroethane	4.546	63	349126	2.662	ppbv	98
25) Ethyl Acetate	5.192	43	646571	1.947	ppbv	99
26) Hexane	5.198	57	296243	2.001	ppbv	100
27) Carbon Disulfide	4.105	76	381903	2.457	ppbv #	94
28) Methyl tert-Butyl Ether	4.574	73	360348	2.689	ppbv	99
29) Chloroform	5.256	83	243247	1.169	ppbv	100
30) Cyclohexane	6.587	84	276916	2.237	ppbv	97
31) cis-1,2-Dichloroethene	5.060	61	259018	1.919	ppbv	96
32) 1,1,1-Trichloroethane	5.986	97	479675	2.315	ppbv	97
34) 2-Butanone	4.777	43	400158	2.446	ppbv	100
35) Carbon Tetrachloride	6.481	117	474961	2.055	ppbv	98
36) Benzene	6.356	78	698453	2.088	ppbv #	94
37) 1,2-Dichloroethane	5.787	62	376391m	2.346	ppbv	
38) Trichloroethene	7.279	130	374851	2.094	ppbv	97
39) 1,2-Dichloropropane	7.060	63	267723	2.055	ppbv	96
40) 1,4-Dioxane	7.291	88	103998m	2.084	ppbv	
41) Tetrahydrofuran	5.555	42	266361	1.949	ppbv	96
42) Bromodichloromethane	7.237	83	515200	2.010	ppbv	99
43) Methyl Methacrylate	7.462	69	271693	2.056	ppbv	98
44) 2,2,4-Trimethylpentane	7.311	57	1186385	2.102	ppbv	98
45) t-1,3-Dichloropropene	8.700	75	241566	1.908	ppbv	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	346622	2.006	ppbv	94
47) 1,1,2-Trichloroethane	8.889	97	274086	2.077	ppbv	95
48) Dibromochloromethane	9.700	129	414749	1.845	ppbv	99
49) Bromoform	12.404	173	332124	1.838	ppbv	99
50) 4-Methyl-2-Pentanone	8.179	43	717725	2.143	ppbv	100
51) 2-Hexanone	9.555	43	547166	2.096	ppbv #	99
52) Tetrachloroethene	10.606	164	251755	2.009	ppbv	98
53) Toluene	9.211	91	799782	2.084	ppbv	98
54) 1,2-Dibromoethane	10.002	107	302253	2.064	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.507	131	323678	1.988	ppbv #	1
57) Chlorobenzene	11.520	112	597817	2.069	ppbv	95
58) Ethyl Benzene	12.085	91	1060597	2.060	ppbv	96
59) m/p-Xylene	12.362	91	1811806m	4.215	ppbv	
60) o-Xylene	13.056	91	854848	2.099	ppbv	97
61) Styrene	12.896	104	505651	2.018	ppbv	100
62) Isopropylbenzene	14.028	105	1248157	2.101	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.050	83	276619	1.824	ppbv	96
64) n-propylbenzene	14.921	120	312165	1.964	ppbv	83
65) tert-Butylbenzene	16.095	119	1092228	2.094	ppbv	99
66) Benzyl Chloride	16.336	91	87079m	1.436	ppbv	
67) sec-Butylbenzene	16.645	105	1519580	2.140	ppbv	98
69) p-Isopropyltoluene	16.998	119	1244452	2.113	ppbv	99
70) n-Butylbenzene	17.899	91	1252368	2.200	ppbv	98
71) 2-Chlorotoluene	14.802	91	928036	2.079	ppbv	99
72) 4-Ethyltoluene	15.191	105	969795	2.115	ppbv	99
73) 1,3,5-Trimethylbenzene	15.355	105	878671	2.161	ppbv	96
74) 1,2,4-Trimethylbenzene	16.114	105	937330	2.170	ppbv	98
75) 1,3-Dichlorobenzene	16.336	146	531342	2.107	ppbv	100
76) 1,4-Dichlorobenzene	16.478	146	500397	2.022	ppbv	96
77) 1,2-Dichlorobenzene	17.146	146	499215	2.100	ppbv	98
78) Hexachloro-1,3-Butadiene	22.654	225	367549	2.087	ppbv	98
79) Naphthalene	21.400	128	630371	2.007	ppbv	97
80) Naphthalene,2-methyl-	24.394	142	166403	1.250	ppbv	97
81) 1,2,4-Trichlorobenzene	21.149	180	356865	2.032	ppbv	97

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

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