

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012422\
 Data File : VL038254.D
 Acq On : 24 Jan 2022 10:08
 Operator : SY/AP
 Sample : VSTDICC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Quant Time: Jan 24 11:18:44 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012422A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Jan 24 11:15:25 2022
 Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 01/25/2022
 Supervised By : Mahesh Dadoda 01/26/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	801239	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2319873	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2052150	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1542271	9.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.06	85	274321	1.817	ppbv	93
3) Chlorodifluoromethane	3.00	51	346502	2.058	ppbv	98
4) Chloromethane	3.15	50	114018	1.953	ppbv	98
5) Vinyl Chloride	3.27	62	113881	1.941	ppbv	94
6) Bromomethane	3.48	94	63247	2.115	ppbv	91
7) Chloroethane	3.57	64	39361	1.992	ppbv	98
8) Dichlorotetrafluoroethane	3.20	85	294745	2.057	ppbv	98
9) Propene	3.02	41	115999	1.984	ppbv	97
10) Heptane	8.12	43	294622	1.987	ppbv	100
11) Trichlorofluoromethane	3.96	101	290615	2.096	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.49	101	215757	2.060	ppbv	96
13) Ethanol	3.63	45	13945m	1.407	ppbv	
14) Bromoethene	3.75	108	85867	2.058	ppbv	100
15) Acetone	3.86	43	156171	1.942	ppbv	93
16) 1,3-Butadiene	3.34	39	104551	1.909	ppbv	94
17) tert-Butyl alcohol	4.30	59	167436m	1.896	ppbv	
18) 1,1-Dichloroethene	4.30	96	93885	2.047	ppbv	98
19) Isopropyl Alcohol	3.98	45	99036m	1.975	ppbv	
20) Methylene Chloride	4.35	84	86258m	1.900	ppbv	
21) Allyl Chloride	4.42	41	136480	2.006	ppbv	96
22) trans-1,2-Dichloroethene	4.89	96	99331	2.123	ppbv	93
23) Vinyl Acetate	5.08	43	215538	1.980	ppbv	99
24) 1,1-Dichloroethane	5.01	63	200703	2.061	ppbv	99
25) Ethyl Acetate	5.68	43	425218	1.952	ppbv	98
26) Hexane	5.69	57	197582	1.808	ppbv	97
27) Carbon Disulfide	4.56	76	231370	2.405	ppbv	96
28) Methyl tert-Butyl Ether	5.05	73	215155	1.959	ppbv	100
29) Chloroform	5.76	83	320291	1.975	ppbv	99
30) Cyclohexane	7.14	84	170075	1.757	ppbv #	81
31) cis-1,2-Dichloroethene	5.56	61	148326	1.730	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	328692	2.042	ppbv	99
34) 2-Butanone	5.25	43	151763	2.177	ppbv	99
35) Carbon Tetrachloride	7.02	117	341593	2.385	ppbv	95
36) Benzene	6.89	78	442170	2.043	ppbv	100
37) 1,2-Dichloroethane	6.31	62	245146m	2.258	ppbv	
38) Trichloroethene	7.83	130	157311	1.910	ppbv	96
39) 1,2-Dichloropropane	7.62	63	176300	2.117	ppbv	98
40) 1,4-Dioxane	7.85	88	42566m	1.757	ppbv	
41) Tetrahydrofuran	6.07	42	104195	2.040	ppbv	97
42) Bromodichloromethane	7.79	83	368245	2.384	ppbv	97
43) Methyl Methacrylate	8.02	69	151206	2.030	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	788947	2.146	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	115908	2.103	ppbv	93
46) cis-1,3-Dichloropropene	8.70	75	158040	2.072	ppbv	98
47) 1,1,2-Trichloroethane	9.47	97	170507	1.973	ppbv	95
48) Dibromochloromethane	10.30	129	283715	2.334	ppbv	94
49) Bromoform	13.04	173	215282m	2.493	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	284221	2.242	ppbv	99
51) 2-Hexanone	10.15	43	129335m	2.131	ppbv	
52) Tetrachloroethene	11.22	164	142439	1.783	ppbv	97
53) Toluene	9.81	91	489480	1.960	ppbv	99
54) 1,2-Dibromoethane	10.61	107	242404	1.977	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.12	131	190317	2.230	ppbv #	1
57) Chlorobenzene	12.14	112	348576	1.959	ppbv	98
58) Ethyl Benzene	12.71	91	642795	2.018	ppbv	98
59) m/p-Xylene	12.99	91	1126707m	4.139	ppbv	
60) o-Xylene	13.69	91	512139	2.029	ppbv	99
61) Styrene	13.53	104	240209	1.879	ppbv	99
62) Isopropylbenzene	14.67	105	704253	1.987	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	373193	1.923	ppbv	100
64) n-propylbenzene	15.56	120	171040	1.941	ppbv	89
65) tert-Butylbenzene	16.74	119	606112	1.943	ppbv	99
66) Benzyl Chloride	16.99	91	23448m	2.017	ppbv	
67) sec-Butylbenzene	17.29	105	841818	1.964	ppbv	99
69) p-Isopropyltoluene	17.65	119	655027	1.900	ppbv	99
70) n-Butylbenzene	18.55	91	647432	1.975	ppbv	99
71) 2-Chlorotoluene	15.45	91	522699	1.982	ppbv	97
72) 4-Ethyltoluene	15.84	105	561210	1.931	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	502675	1.932	ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	542385	1.985	ppbv	95
75) 1,3-Dichlorobenzene	17.00	146	283332	1.920	ppbv	100
76) 1,4-Dichlorobenzene	17.14	146	266222	1.818	ppbv	96
77) 1,2-Dichlorobenzene	17.82	146	264884	1.875	ppbv	97
78) Hexachloro-1,3-Butadiene	23.37	225	187725	2.153	ppbv	99
79) Naphthalene	22.20	128	256606	1.818	ppbv	99
80) Naphthalene, 2-methyl-	24.98	142	27497	0.982	ppbv #	83
81) 1,2,4-Trichlorobenzene	21.92	180	156138m	1.935	ppbv	

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

