

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038986.D
 Acq On : 5 May 2022 23:55
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Quant Time: May 06 09:24:10 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Thu May 05 07:41:27 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 05/07/2022
 Supervised By :Mahesh Dadoda 05/09/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	954689	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2164977	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1804301	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1503272	10.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	30891m	0.207 ppbv	
3) Chlorodifluoromethane	2.99	51	19844	0.168 ppbv	99
4) Chloromethane	3.14	50	9520m	0.160 ppbv	
5) Vinyl Chloride	3.26	62	5919	0.109 ppbv	92
6) Bromomethane	3.48	94	4441m	0.174 ppbv	
7) Chloroethane	3.56	64	2438m	0.134 ppbv	
8) Dichlorotetrafluoroethane	3.19	85	21947	0.162 ppbv	98
9) Propene	3.02	41	11619m	0.225 ppbv	
10) Heptane	8.12	43	14698m	0.116 ppbv	
11) Trichlorofluoromethane	3.95	101	21404	0.167 ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.48	101	14856m	0.168 ppbv	
13) Ethanol	3.63	45	3091m	0.765 ppbv	
14) Bromoethene	3.74	108	6020m	0.165 ppbv	
15) Acetone	3.87	43	18733	0.208 ppbv	94
16) 1,3-Butadiene	3.33	39	10866m	0.210 ppbv	
17) tert-Butyl alcohol	4.32	59	9237m	0.133 ppbv	
18) 1,1-Dichloroethene	4.29	96	6703m	0.176 ppbv	
19) Isopropyl Alcohol	3.98	45	4650m	0.109 ppbv	
20) Methylene Chloride	4.34	84	11312m	0.333 ppbv	
21) Allyl Chloride	4.41	41	9402m	0.153 ppbv	
22) trans-1,2-Dichloroethene	4.88	96	6902m	0.168 ppbv	
23) Vinyl Acetate	5.07	43	13574m	0.190 ppbv	
24) 1,1-Dichloroethane	5.01	63	11704m	0.143 ppbv	
25) Ethyl Acetate	5.68	43	28257m	0.131 ppbv	
26) Hexane	5.68	57	12924m	0.135 ppbv	
27) Carbon Disulfide	4.55	76	10859m	0.119 ppbv	
28) Methyl tert-Butyl Ether	5.05	73	10556m	0.145 ppbv	
29) Chloroform	5.75	83	25383	0.164 ppbv	99
30) Cyclohexane	7.12	84	9612m	0.120 ppbv	
31) cis-1,2-Dichloroethene	5.55	61	11825m	0.121 ppbv	
32) 1,1,1-Trichloroethane	6.50	97	18335m	0.118 ppbv	
34) 2-Butanone	5.27	43	19376m	0.175 ppbv	
35) Carbon Tetrachloride	7.01	117	19857m	0.139 ppbv	
36) Benzene	6.89	78	24007	0.130 ppbv	98
37) 1,2-Dichloroethane	6.30	62	16693m	0.146 ppbv	
38) Trichloroethene	7.83	130	10073m	0.122 ppbv	
39) 1,2-Dichloropropane	7.61	63	10838m	0.150 ppbv	
40) 1,4-Dioxane	7.88	88	4396m	0.170 ppbv	
41) Tetrahydrofuran	6.09	42	10005m	0.135 ppbv	
42) Bromodichloromethane	7.78	83	20531m	0.131 ppbv	
43) Methyl Methacrylate	8.01	69	7911m	0.105 ppbv	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038986.D
 Acq On : 5 May 2022 23:55
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/07/2022
 Supervised By : Mahesh Dadoda 05/09/2022

Quant Time: May 06 09:24:10 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu May 05 07:41:27 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	40013m	0.123	ppbv	
45) t-1,3-Dichloropropene	9.26	75	5148m	0.071	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	9309m	0.096	ppbv	
47) 1,1,2-Trichloroethane	9.47	97	10060m	0.134	ppbv	
48) Dibromochloromethane	10.30	129	11024m	0.090	ppbv	
49) Bromoform	13.02	173	8586m	0.092	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	22470m	0.116	ppbv	
51) 2-Hexanone	10.18	43	16358m	0.116	ppbv	
52) Tetrachloroethene	11.21	164	7091m	0.107	ppbv	
53) Toluene	9.80	91	23867m	0.115	ppbv	
54) 1,2-Dibromoethane	10.61	107	12415m	0.122	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	11454m	0.145	ppbv	
57) Chlorobenzene	12.13	112	20214m	0.149	ppbv	
58) Ethyl Benzene	12.70	91	31558m	0.122	ppbv	
59) m/p-Xylene	12.99	91	55966m	0.252	ppbv	
60) o-Xylene	13.67	91	27347m	0.131	ppbv	
61) Styrene	13.52	104	11692m	0.105	ppbv	
62) Isopropylbenzene	14.66	105	42790m	0.161	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.67	83	19399m	0.158	ppbv	
64) n-propylbenzene	15.55	120	7625m	0.103	ppbv	
65) tert-Butylbenzene	16.73	119	37438m	0.140	ppbv	
66) Benzyl Chloride	17.00	91	4570m	0.131	ppbv	
67) sec-Butylbenzene	17.28	105	47682m	0.125	ppbv	
69) p-Isopropyltoluene	17.64	119	32263m	0.105	ppbv	
70) n-Butylbenzene	18.54	91	39060m	0.119	ppbv	
71) 2-Chlorotoluene	15.44	91	30665m	0.130	ppbv	
72) 4-Ethyltoluene	15.83	105	26470m	0.111	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	29675m	0.139	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	30270m	0.129	ppbv	
75) 1,3-Dichlorobenzene	16.99	146	19051m	0.148	ppbv	
76) 1,4-Dichlorobenzene	17.12	146	20292m	0.161	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	18766m	0.148	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	27242m	0.233	ppbv	
79) Naphthalene	22.19	128	38996m	0.205	ppbv	
81) 1,2,4-Trichlorobenzene	21.91	180	20598m	0.185	ppbv	

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

