

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
 Data File : VL040432.D
 Acq On : 16 May 2023 10:15
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: May 16 11:11:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/17/2023
 Supervised By : Mahesh Dadoda 05/17/2023

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

Internal Standards						
1) Bromochloromethane	5.189	49	1088732	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2788819	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2637741	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	2065540	9.470	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	407644	2.077	ppbv	98
3) Chlorodifluoromethane	2.665	51	310830	2.185	ppbv	98
4) Chloromethane	2.803	50	189636	2.110	ppbv	99
5) Vinyl Chloride	2.912	62	162174	2.186	ppbv	97
6) Bromomethane	3.111	94	50692	2.074	ppbv	96
7) Chloroethane	3.192	64	60453	2.152	ppbv	91
8) Dichlorotetrafluoroethane	2.848	85	408598	2.130	ppbv	98
9) Propene	2.687	41	116022	2.064	ppbv	95
10) Heptane	7.581	43	279242	2.186	ppbv	99
11) Trichlorofluoromethane	3.555	101	414054	2.084	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.060	101	306057	2.202	ppbv	98
13) Ethanol	3.250	45	9305m	1.983	ppbv	
14) Bromoethene	3.362	108	121249	2.133	ppbv	99
15) Acetone	3.465	43	299279	1.941	ppbv	99
16) 1,3-Butadiene	2.976	39	138957	2.177	ppbv	99
17) tert-Butyl alcohol	3.873	59	313489	2.214	ppbv	99
18) 1,1-Dichloroethene	3.877	96	132732	2.117	ppbv	97
19) Isopropyl Alcohol	3.578	45	152931	2.174	ppbv	# 96
20) Methylene Chloride	3.928	84	142292	2.311	ppbv	97
21) Allyl Chloride	3.989	41	184020	2.100	ppbv	97
22) trans-1,2-Dichloroethene	4.443	96	131412	2.097	ppbv	95
23) Vinyl Acetate	4.626	43	85498m	2.178	ppbv	
24) 1,1-Dichloroethane	4.558	63	276784	2.118	ppbv	100
25) Ethyl Acetate	5.205	43	573446	2.210	ppbv	99
26) Hexane	5.208	57	242104	2.213	ppbv	97
27) Carbon Disulfide	4.121	76	304370	2.150	ppbv	99
28) Methyl tert-Butyl Ether	4.587	73	257844	2.283	ppbv	100
29) Chloroform	5.272	83	419821	2.154	ppbv	96
30) Cyclohexane	6.600	84	177578	2.096	ppbv	96
31) cis-1,2-Dichloroethene	5.076	61	228475	2.107	ppbv	99
32) 1,1,1-Trichloroethane	6.002	97	411663	2.174	ppbv	98
34) 2-Butanone	4.787	43	301240	2.003	ppbv	100
35) Carbon Tetrachloride	6.497	117	403935	2.058	ppbv	98
36) Benzene	6.372	78	491387	2.160	ppbv	98
37) 1,2-Dichloroethane	5.806	62	312571	2.091	ppbv	98
38) Trichloroethene	7.295	130	289994	2.239	ppbv	98
39) 1,2-Dichloropropane	7.073	63	191463	2.139	ppbv	99
40) 1,4-Dioxane	7.301	88	65921	1.923	ppbv	# 1
41) Tetrahydrofuran	5.565	42	183288	2.226	ppbv	97
42) Bromodichloromethane	7.253	83	422591	2.070	ppbv	96
43) Methyl Methacrylate	7.484	69	182852m	2.164	ppbv	
44) 2,2,4-Trimethylpentane	7.330	57	827160	2.176	ppbv	100
45) t-1,3-Dichloropropene	8.716	75	143500	1.901	ppbv	94

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M

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

QLast Update : Thu Apr 13 14:37:02 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.147	75	211749	2.015	ppbv	96
47) 1,1,2-Trichloroethane	8.905	97	199878	2.036	ppbv	96
48) Dibromochloromethane	9.716	129	329580	2.085	ppbv	98
49) Bromoform	12.417	173	257050	2.085	ppbv	99
50) 4-Methyl-2-Pentanone	8.188	43	493763	2.165	ppbv	98
51) 2-Hexanone	9.565	43	376243	2.233	ppbv #	98
52) Tetrachloroethene	10.619	164	157988m	2.220	ppbv	
53) Toluene	9.230	91	528307	2.190	ppbv	99
54) 1,2-Dibromoethane	10.015	107	209575	2.106	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.516	131	256741	2.132	ppbv #	1
57) Chlorobenzene	11.532	112	428763	2.076	ppbv	98
58) Ethyl Benzene	12.095	91	716366	2.208	ppbv	100
59) m/p-Xylene	12.375	91	1332389m	4.465	ppbv	
60) o-Xylene	13.066	91	627066	2.190	ppbv	99
61) Styrene	12.909	104	320464	2.234	ppbv	99
62) Isopropylbenzene	14.040	105	908235	2.202	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.056	83	215120	2.053	ppbv	99
64) n-propylbenzene	14.925	120	225478	2.222	ppbv	89
65) tert-Butylbenzene	16.098	119	817820	2.254	ppbv	97
66) Benzyl Chloride	16.339	91	41415m	1.843	ppbv	
67) sec-Butylbenzene	16.645	105	1198721	2.300	ppbv	99
69) p-Isopropyltoluene	17.005	119	951121	2.337	ppbv	99
70) n-Butylbenzene	17.899	91	1073408	2.379	ppbv	98
71) 2-Chlorotoluene	14.809	91	708229	2.237	ppbv	99
72) 4-Ethyltoluene	15.204	105	714010	2.258	ppbv	100
73) 1,3,5-Trimethylbenzene	15.359	105	657368	2.251	ppbv	95
74) 1,2,4-Trimethylbenzene	16.117	105	754409	2.260	ppbv	91
75) 1,3-Dichlorobenzene	16.339	146	407087	2.227	ppbv	98
76) 1,4-Dichlorobenzene	16.484	146	387890	2.147	ppbv	97
77) 1,2-Dichlorobenzene	17.153	146	405893	2.245	ppbv	99
78) Hexachloro-1,3-Butadiene	22.644	225	300751	2.075	ppbv	99
79) Naphthalene	21.400	128	541032	2.401	ppbv	99
80) Naphthalene,2-methyl-	24.384	142	163685	2.441	ppbv	96
81) 1,2,4-Trichlorobenzene	21.149	180	293117	2.117	ppbv	100

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

