

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041323\
 Data File : VL040355.D
 Acq On : 13 Apr 2023 10:45
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Apr 13 11:19:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023
 QLast Update : Tue Apr 11 04:15:53 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/14/2023
 Supervised By : Mahesh Dadoda 04/14/2023

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

Internal Standards						
1) Bromochloromethane	5.189	49	1087387	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2780148	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2662947	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	2126856	9.537	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.400%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.716	85	390441	1.830	ppbv	98
3) Chlorodifluoromethane	2.661	51	304742	2.229	ppbv	98
4) Chloromethane	2.803	50	201209	2.383	ppbv	98
5) Vinyl Chloride	2.912	62	165217	2.417	ppbv	95
6) Bromomethane	3.112	94	50650	2.136	ppbv	99
7) Chloroethane	3.189	64	58615	2.233	ppbv	98
8) Dichlorotetrafluoroethane	2.845	85	405045	2.218	ppbv	98
9) Propene	2.681	41	124148	2.370	ppbv	97
10) Heptane	7.578	43	287536	2.282	ppbv	100
11) Trichlorofluoromethane	3.555	101	430745	2.228	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.060	101	296671	2.044	ppbv	96
13) Ethanol	3.247	45	11553m	3.007	ppbv	
14) Bromoethene	3.356	108	123321	2.277	ppbv	96
15) Acetone	3.462	43	340274	2.570	ppbv	97
16) 1,3-Butadiene	2.973	39	142504	2.368	ppbv	100
17) tert-Butyl alcohol	3.874	59	310870	2.471	ppbv	99
18) 1,1-Dichloroethene	3.874	96	132327	2.125	ppbv	98
19) Isopropyl Alcohol	3.571	45	161887	2.553	ppbv #	97
20) Methylene Chloride	3.925	84	133108	2.390	ppbv	96
21) Allyl Chloride	3.986	41	189648	2.212	ppbv	99
22) trans-1,2-Dichloroethene	4.439	96	132074	2.084	ppbv	98
23) Vinyl Acetate	4.623	43	78850	2.141	ppbv #	89
24) 1,1-Dichloroethane	4.558	63	284761	2.168	ppbv	97
25) Ethyl Acetate	5.205	43	578425	2.334	ppbv	99
26) Hexane	5.208	57	244870	2.407	ppbv	98
27) Carbon Disulfide	4.118	76	302269	2.127	ppbv	100
28) Methyl tert-Butyl Ether	4.584	73	247918	2.122	ppbv	99
29) Chloroform	5.269	83	428221	2.384	ppbv	97
30) Cyclohexane	6.600	84	186938	2.332	ppbv	94
31) cis-1,2-Dichloroethene	5.079	61	235891	2.381	ppbv	95
32) 1,1,1-Trichloroethane	6.002	97	409809	2.381	ppbv	99
34) 2-Butanone	4.787	43	325796	2.374	ppbv	98
35) Carbon Tetrachloride	6.494	117	414146	2.374	ppbv	96
36) Benzene	6.369	78	493848	2.331	ppbv	98
37) 1,2-Dichloroethane	5.803	62	310405	2.251	ppbv	99
38) Trichloroethene	7.295	130	293013	2.531	ppbv	98
39) 1,2-Dichloropropane	7.076	63	190350	2.290	ppbv	93
40) 1,4-Dioxane	7.304	88	69924	2.126	ppbv	66
41) Tetrahydrofuran	5.562	42	175973	2.222	ppbv	96
42) Bromodichloromethane	7.250	83	436827	2.318	ppbv	95
43) Methyl Methacrylate	7.478	69	182214	2.314	ppbv	99
44) 2,2,4-Trimethylpentane	7.324	57	838369	2.373	ppbv	98
45) t-1,3-Dichloropropene	8.716	75	151111	2.202	ppbv	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.147	75	215869	2.215	ppbv	97
47) 1,1,2-Trichloroethane	8.902	97	210541	2.374	ppbv	95
48) Dibromochloromethane	9.716	129	334708	2.293	ppbv	99
49) Bromoform	12.410	173	263003	2.399	ppbv	99
50) 4-Methyl-2-Pentanone	8.192	43	509576	2.400	ppbv	96
51) 2-Hexanone	9.561	43	372240	2.263	ppbv #	97
52) Tetrachloroethene	10.622	164	161098	2.513	ppbv	98
53) Toluene	9.224	91	526518	2.371	ppbv	98
54) 1,2-Dibromoethane	10.015	107	218591	2.394	ppbv	93
56) 1,1,1,2-Tetrachloroethane	11.516	131	257810	2.301	ppbv #	1
57) Chlorobenzene	11.532	112	437555	2.310	ppbv	98
58) Ethyl Benzene	12.095	91	730624	2.410	ppbv	99
59) m/p-Xylene	12.381	91	1340646m	4.826	ppbv	
60) o-Xylene	13.066	91	636519	2.397	ppbv	99
61) Styrene	12.905	104	318253	2.362	ppbv	99
62) Isopropylbenzene	14.037	105	922467	2.439	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.053	83	221274	2.368	ppbv	97
64) n-propylbenzene	14.921	120	225105	2.433	ppbv	90
65) tert-Butylbenzene	16.098	119	833595	2.558	ppbv	98
66) Benzyl Chloride	16.336	91	42502m	2.007	ppbv	
67) sec-Butylbenzene	16.645	105	1198417	2.572	ppbv	98
69) p-Isopropyltoluene	17.005	119	945818	2.606	ppbv	98
70) n-Butylbenzene	17.896	91	1074288	2.687	ppbv	97
71) 2-Chlorotoluene	14.809	91	711070	2.471	ppbv	98
72) 4-Ethyltoluene	15.198	105	720822	2.483	ppbv	99
73) 1,3,5-Trimethylbenzene	15.359	105	667005	2.536	ppbv	99
74) 1,2,4-Trimethylbenzene	16.121	105	765423m	2.552	ppbv	
75) 1,3-Dichlorobenzene	16.343	146	403300	2.483	ppbv	97
76) 1,4-Dichlorobenzene	16.481	146	400316	2.584	ppbv	98
77) 1,2-Dichlorobenzene	17.153	146	407077	2.607	ppbv	99
78) Hexachloro-1,3-Butadiene	22.645	225	316609	2.765	ppbv	98
79) Naphthalene	21.394	128	585397	3.300	ppbv	97
80) Naphthalene,2-methyl-	24.387	142	149742	3.333	ppbv	96
81) 1,2,4-Trichlorobenzene	21.156	180	317433m	2.905	ppbv	

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

Manual Integrations

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