

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034777.D
 Acq On : 28 Mar 2023 03:57
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 03/29/2023
 Supervised By :Semsettin Yesilyurt 03/29/2023

Quant Time: Mar 28 09:22:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	26075	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	186817	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	200893	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	77284	30.847	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.833%			
60) 4-Bromofluorobenzene	11.079	95	116211	28.950	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.500%			
63) Toluene-d8	8.646	98	203718	29.840	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.467%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	52079	21.058	ug/l	100
3) Chloromethane	1.294	50	69347	21.625	ug/l	96
4) Vinyl Chloride	1.373	62	67894	21.459	ug/l	94
5) Bromomethane	1.617	94	45450	21.840	ug/l	97
6) Chloroethane	1.690	64	43919	21.331	ug/l	93
7) Trichlorofluoromethane	1.892	101	107495	21.330	ug/l	96
8) Diethyl Ether	2.129	74	39414	21.724	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.330	101	54433	21.290	ug/l	99
10) 1,1-Dichloroethene	2.318	96	53387	20.627	ug/l	92
11) Methyl Iodide	2.452	142	66580	20.201	ug/l	96
12) Methyl Acetate	2.702	43	122484	21.370	ug/l	99
13) Acrolein	2.239	56	66025	99.336	ug/l	100
14) Acrylonitrile	3.068	53	168301	106.635	ug/l	99
15) Acetone	2.391	58	45551	106.307	ug/l	95
16) Carbon Disulfide	2.513	76	131076	19.799	ug/l	99
17) Allyl chloride	2.666	41	101770	20.320	ug/l	99
18) Methylene Chloride	2.788	84	64676	21.213	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	59286	20.933	ug/l	96
20) Diisopropyl ether	3.757	45	217947	21.241	ug/l	98
21) 1,1-Dichloroethane	3.611	63	115082	20.976	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	68566	20.787	ug/l	99
23) tert-Butyl Alcohol	2.995	59	76470m	107.686	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	202055	21.008	ug/l	100
25) Chloroform	5.092	83	114844	20.580	ug/l	98
26) Cyclohexane	5.470	56	100634	20.931	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	85015	19.786	ug/l	99
30) 2-Butanone	4.562	43	242970	101.396	ug/l	99
31) 2,2-Dichloropropane	4.476	77	76334	17.518	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	97086	19.260	ug/l	98
33) Carbon Tetrachloride	5.677	117	79050	19.001	ug/l	99
34) Benzene	6.037	78	251575	20.148	ug/l	99
35) Methacrylonitrile	4.915	41	52828	20.143	ug/l	96
36) 1,2-Dichloroethane	6.086	62	99521	20.328	ug/l	99
37) Trichloroethene	7.122	130	61775	19.439	ug/l	96
38) Methylcyclohexane	7.378	83	94635	20.159	ug/l	98
39) 1,2-Dichloropropane	7.427	63	65056	20.044	ug/l	99
40) Dibromomethane	7.580	93	44229	19.837	ug/l	99
41) Bromodichloromethane	7.823	83	81843	19.488	ug/l	95
42) Vinyl Acetate	3.720	43	795779	101.795	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	96981	20.868	ug/l	98
44) Isopropyl Acetate	6.336	43	157896	20.070	ug/l	100
45) 1,4-Dioxane	7.701	88	32914	422.284	ug/l	99
46) Methyl methacrylate	7.695	41	75911	19.803	ug/l	98
47) n-amyl Acetate	10.841	43	132170	19.324	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	83674	18.286	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	93226	18.545	ug/l	95
50) 1,1,2-Trichloroethane	9.152	97	63554	20.461	ug/l	97
51) Ethyl methacrylate	9.116	69	98062	19.451	ug/l	98
52) 1,3-Dichloropropane	9.305	76	110147	20.074	ug/l	100
53) Dibromochloromethane	9.518	129	56109	18.260	ug/l	99
54) 1,2-Dibromoethane	9.610	107	65144	19.607	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	273814	103.208	ug/l	99
56) Bromoform	10.798	173	35979	16.981	ug/l	95
58) 4-Methyl-2-Pentanone	8.573	43	482356	104.723	ug/l	100
59) 2-Hexanone	9.427	43	362705	104.588	ug/l	100
61) Tetrachloroethene	9.274	164	55626	20.550	ug/l	98
62) Toluene	8.720	91	267285	20.348	ug/l	100
64) Chlorobenzene	10.079	112	163333	20.191	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.164	131	56051	19.382	ug/l	97
66) Ethyl Benzene	10.195	91	298526	20.404	ug/l	99
67) m/p-Xylenes	10.299	106	224840	40.389	ug/l	98
68) o-Xylene	10.640	106	112658	20.464	ug/l	98
69) Styrene	10.658	104	179177	19.743	ug/l	100
70) Isopropylbenzene	10.963	105	286242	20.090	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	94775	20.237	ug/l	99
72) 1,2,3-Trichloropropane	11.237	75	84862m	19.906	ug/l	
73) Bromobenzene	11.201	156	66942	19.564	ug/l	98
74) n-propylbenzene	11.304	91	331515	19.988	ug/l	99
75) 2-Chlorotoluene	11.365	91	202524	19.586	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	239891	20.001	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	21110	16.124	ug/l	96
78) 4-Chlorotoluene	11.457	91	232803	19.639	ug/l	100
79) tert-butylbenzene	11.713	119	225933	19.734	ug/l	98
80) 1,2,4-Trimethylbenzene	11.749	105	237131	19.896	ug/l	99
81) sec-Butylbenzene	11.890	105	277290	19.988	ug/l	99
82) p-Isopropyltoluene	12.012	119	227910	19.468	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	125183	19.373	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	127209	19.604	ug/l	99
85) n-Butylbenzene	12.335	91	193799	19.208	ug/l	100
86) Hexachloroethane	12.536	117	34318	17.898	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	122951	19.445	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.944	75	19379	18.935	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	73770	19.449	ug/l	98
90) Hexachlorobutadiene	13.725	225	27472	18.781	ug/l	94
91) Naphthalene	13.774	128	268026	20.000	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	73528	19.391	ug/l	99

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

