

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031924\
 Data File : VX040715.D
 Acq On : 19 Mar 2024 15:13
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/20/2024
 Supervised By : Mahesh Dadoda 03/20/2024

Quant Time: Mar 20 04:34:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	14244	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	69806	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	64985	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	43890	30.852	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.833%			
60) 4-Bromofluorobenzene	11.079	95	33558	30.105	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.367%			
63) Toluene-d8	8.640	98	84646	29.474	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.233%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	12032	12.454	ug/l	97
3) Chloromethane	1.294	50	18120	18.306	ug/l	92
4) Vinyl Chloride	1.373	62	17651	16.500	ug/l	93
5) Bromomethane	1.611	94	13918	21.302	ug/l	95
6) Chloroethane	1.690	64	13876m	22.078	ug/l	
7) Trichlorofluoromethane	1.892	101	21888	13.438	ug/l	98
8) Diethyl Ether	2.129	74	10810	19.547	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	10779	12.082	ug/l	95
10) 1,1-Dichloroethene	2.318	96	11262	13.259	ug/l	98
11) Methyl Iodide	2.452	142	15601	15.186	ug/l	98
12) Methyl Acetate	2.696	43	31589	22.577	ug/l	96
13) Acrolein	2.233	56	14800	56.107	ug/l	96
14) Acrylonitrile	3.056	53	57890	105.071	ug/l	99
15) Acetone	2.373	58	12956	82.267	ug/l	69
16) Carbon Disulfide	2.513	76	28306	12.125	ug/l	99
17) Allyl chloride	2.666	41	26729	17.052	ug/l	88
18) Methylene Chloride	2.788	84	19600	20.211	ug/l	91
19) trans-1,2-Dichloroethene	3.093	96	15312	16.512	ug/l	92
20) Diisopropyl ether	3.751	45	64221	20.486	ug/l	90
21) 1,1-Dichloroethane	3.605	63	33717	18.691	ug/l	99
22) cis-1,2-Dichloroethene	4.476	96	19856	18.438	ug/l	96
23) tert-Butyl Alcohol	2.940	59	26352	101.231	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	64149	20.464	ug/l	94
25) Chloroform	5.086	83	38452	19.475	ug/l	90
26) Cyclohexane	5.464	56	18952	13.018	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	20789	17.205	ug/l	98
30) 2-Butanone	4.544	43	86969	117.952	ug/l	98
31) 2,2-Dichloropropane	4.470	77	24556	18.830	ug/l	93
32) 1,1,1-Trichloroethane	5.379	97	28021	18.404	ug/l	97
33) Carbon Tetrachloride	5.665	117	22609	17.650	ug/l	99
34) Benzene	6.031	78	66484	20.382	ug/l	100
35) Methacrylonitrile	4.915	41	19930m	26.330	ug/l	
36) 1,2-Dichloroethane	6.080	62	35517	23.550	ug/l #	90
37) Trichloroethene	7.122	130	15944	18.190	ug/l	94
38) Methylcyclohexane	7.378	83	20136	15.476	ug/l	97
39) 1,2-Dichloropropane	7.421	63	19088	22.984	ug/l	92
40) Dibromomethane	7.580	93	15772	24.174	ug/l	95
41) Bromodichloromethane	7.817	83	30552	23.538	ug/l #	99
42) Vinyl Acetate	3.714	43	296311	116.722	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	32524	23.422	ug/l	100
44) Isopropyl Acetate	6.330	43	50869	22.949	ug/l	96
45) 1,4-Dioxane	7.647	88	10383	455.699	ug/l	93
46) Methyl methacrylate	7.689	41	26313	23.901	ug/l	94
47) n-amyl Acetate	10.841	43	40747	21.329	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	29796	21.719	ug/l	95
49) cis-1,3-Dichloropropene	8.360	75	30823	22.055	ug/l	97
50) 1,1,2-Trichloroethane	9.146	97	20604	23.774	ug/l	93
51) Ethyl methacrylate	9.110	69	31172	22.847	ug/l	98
52) 1,3-Dichloropropane	9.305	76	34061	23.033	ug/l	100
53) Dibromochloromethane	9.518	129	22179	22.450	ug/l	99
54) 1,2-Dibromoethane	9.604	107	21953	22.893	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	83542	120.236	ug/l	98
56) Bromoform	10.799	173	16344	23.324	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	177828	122.890	ug/l	98
59) 2-Hexanone	9.427	43	135651	116.056	ug/l	97
61) Tetrachloroethene	9.268	164	13652	17.700	ug/l	97
62) Toluene	8.714	91	68465	19.129	ug/l	98
64) Chlorobenzene	10.079	112	41703	19.064	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.158	131	18134	21.734	ug/l	97
66) Ethyl Benzene	10.189	91	73331	17.770	ug/l	99
67) m/p-Xylenes	10.299	106	53829	35.323	ug/l	97
68) o-Xylene	10.640	106	27069	18.452	ug/l	96
69) Styrene	10.652	104	46342	18.802	ug/l	96
70) Isopropylbenzene	10.957	105	68758	17.346	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	33636	24.205	ug/l	99
72) 1,2,3-Trichloropropane	11.237	75	29863m	23.884	ug/l	
73) Bromobenzene	11.195	156	18451	19.662	ug/l	96
74) n-propylbenzene	11.305	91	81615	16.671	ug/l	99
75) 2-Chlorotoluene	11.359	91	52218	17.974	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	60313	17.283	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	8266	21.272	ug/l	77
78) 4-Chlorotoluene	11.451	91	62047	17.903	ug/l	96
79) tert-butylbenzene	11.713	119	55103	16.917	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	60172	17.500	ug/l	97
81) sec-Butylbenzene	11.890	105	67967	15.805	ug/l	98
82) p-Isopropyltoluene	12.006	119	56485	16.047	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	32928	18.033	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	33033	17.691	ug/l	99
85) n-Butylbenzene	12.329	91	52294	15.267	ug/l	98
86) Hexachloroethane	12.536	117	10135	16.501	ug/l	88
87) 1,2-Dichlorobenzene	12.335	146	33187	18.704	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	8735	23.508	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	20533	17.186	ug/l	98
90) Hexachlorobutadiene	13.725	225	7091	14.679	ug/l	96
91) Naphthalene	13.774	128	75809	19.453	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	20725	17.593	ug/l	99

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

