

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121622\
 Data File : VX033450.D
 Acq On : 16 Dec 2022 10:17
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/19/2022
 Supervised By : Mahesh Dadoda 12/19/2022

Quant Time: Dec 17 07:40:50 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:37:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	12908	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	88482	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	98996	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	35148	31.004	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.333%	
60) 4-Bromofluorobenzene	11.079	95	55035	30.016	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.067%	
63) Toluene-d8	8.647	98	99113	30.097	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.333%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	19222	20.390	ug/l	93
3) Chloromethane	1.294	50	19015	19.989	ug/l	100
4) Vinyl Chloride	1.374	62	21497	18.834	ug/l	100
5) Bromomethane	1.617	94	17294	20.720	ug/l	95
6) Chloroethane	1.691	64	17529	20.772	ug/l	99
7) Trichlorofluoromethane	1.886	101	33825	14.536	ug/l	98
8) Diethyl Ether	2.130	74	11651	16.033	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	19103	16.169	ug/l	99
10) 1,1-Dichloroethene	2.319	96	17521	15.751	ug/l	94
11) Methyl Iodide	2.453	142	19330	15.300	ug/l	95
12) Methyl Acetate	2.703	43	34819	22.197	ug/l	98
13) Acrolein	2.239	56	28988	116.810	ug/l	98
14) Acrylonitrile	3.062	53	59772	104.829	ug/l	97
15) Acetone	2.386	58	15308	78.105	ug/l	88
16) Carbon Disulfide	2.514	76	41915	13.987	ug/l	96
17) Allyl chloride	2.666	41	34962	19.148	ug/l	98
18) Methylene Chloride	2.788	84	25589	19.820	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	25328	19.545	ug/l	97
20) Diisopropyl ether	3.757	45	79932	20.803	ug/l	95
21) 1,1-Dichloroethane	3.611	63	46260	20.412	ug/l	96
22) cis-1,2-Dichloroethene	4.483	96	30706	20.413	ug/l	97
23) tert-Butyl Alcohol	2.995	59	23301m	95.765	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	83288	20.692	ug/l	98
25) Chloroform	5.092	83	52546	20.375	ug/l	95
26) Cyclohexane	5.470	56	39670	20.013	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	36489	20.404	ug/l	100
30) 2-Butanone	4.556	43	88802	106.227	ug/l	99
31) 2,2-Dichloropropane	4.471	77	36496	19.419	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	46929	20.329	ug/l	99
33) Carbon Tetrachloride	5.678	117	41499	19.659	ug/l	98
34) Benzene	6.037	78	106087	20.701	ug/l	99
35) Methacrylonitrile	4.916	41	19113	22.310	ug/l	98
36) 1,2-Dichloroethane	6.086	62	42341	21.494	ug/l	100
37) Trichloroethene	7.123	130	29990	20.609	ug/l	96
38) Methylcyclohexane	7.379	83	43616	20.698	ug/l	99
39) 1,2-Dichloropropane	7.427	63	27402	21.443	ug/l	99
40) Dibromomethane	7.580	93	20905	21.380	ug/l	99
41) Bromodichloromethane	7.818	83	39967	19.947	ug/l	98
42) Vinyl Acetate	3.721	43	310572	107.307	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	32716	21.766	ug/l	99
44) Isopropyl Acetate	6.336	43	53453	20.949	ug/l	99
45) 1,4-Dioxane	7.696	88	12720	425.613	ug/l #	91
46) Methyl methacrylate	7.690	41	27857	21.917	ug/l	99
47) n-amyl Acetate	10.841	43	45802	21.389	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	39598	19.703	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	43993	20.394	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	30088	22.252	ug/l	98
51) Ethyl methacrylate	9.116	69	40815	21.126	ug/l	98
52) 1,3-Dichloropropane	9.305	76	46566	21.090	ug/l	96
53) Dibromochloromethane	9.518	129	32949	20.277	ug/l	100
54) 1,2-Dibromoethane	9.610	107	31422	21.230	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	91537	100.914	ug/l	99
56) Bromoform	10.799	173	22689	19.344	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	174963	109.294	ug/l	100
59) 2-Hexanone	9.427	43	131784	107.654	ug/l	100
61) Tetrachloroethene	9.275	164	26749	20.178	ug/l	100
62) Toluene	8.714	91	122156	20.329	ug/l	99
64) Chlorobenzene	10.079	112	77720	20.446	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	29575	19.702	ug/l	99
66) Ethyl Benzene	10.195	91	138117	20.399	ug/l	100
67) m/p-Xylenes	10.299	106	108900	41.146	ug/l	98
68) o-Xylene	10.640	106	52499	20.358	ug/l	100
69) Styrene	10.652	104	86471	20.185	ug/l	99
70) Isopropylbenzene	10.963	105	139320	20.360	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	43055	21.275	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	39858m	22.116	ug/l	
73) Bromobenzene	11.201	156	34641	20.460	ug/l	99
74) n-propylbenzene	11.305	91	162088	20.671	ug/l	99
75) 2-Chlorotoluene	11.366	91	97883	20.766	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	119233	20.726	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	11160	18.624	ug/l	100
78) 4-Chlorotoluene	11.457	91	112182	20.769	ug/l	99
79) tert-butylbenzene	11.713	119	116910	20.500	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	118342	20.927	ug/l	99
81) sec-Butylbenzene	11.890	105	143681	20.963	ug/l	99
82) p-Isopropyltoluene	12.012	119	121345	20.759	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	65268	20.944	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	65991	21.039	ug/l	99
85) n-Butylbenzene	12.335	91	100081	20.512	ug/l	99
86) Hexachloroethane	12.536	117	19144	18.453	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	63454	20.665	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8694	19.718	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	39619	20.887	ug/l	96
90) Hexachlorobutadiene	13.725	225	17470	21.705	ug/l	98
91) Naphthalene	13.774	128	127717	20.804	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	39397	20.740	ug/l	97

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

