

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121622\
 Data File : VX033458.D
 Acq On : 16 Dec 2022 13:59
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

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

Quant Time: Dec 17 07:46:45 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	4.904	128	13420	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	90486	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	102169	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	36236	30.744	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.467%			
60) 4-Bromofluorobenzene	11.079	95	56223	29.712	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.033%			
63) Toluene-d8	8.647	98	100366	29.531	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.433%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	18690	19.069	ug/l	92
3) Chloromethane	1.295	50	20205	20.429	ug/l	93
4) Vinyl Chloride	1.374	62	22841	19.248	ug/l	96
5) Bromomethane	1.612	94	18321	21.113	ug/l	100
6) Chloroethane	1.691	64	11546	13.160	ug/l	97
7) Trichlorofluoromethane	1.892	101	32118	13.276	ug/l	98
8) Diethyl Ether	2.130	74	11904	15.756	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	17997	14.652	ug/l	96
10) 1,1-Dichloroethene	2.325	96	18060	15.616	ug/l	96
11) Methyl Iodide	2.453	142	28382	21.608	ug/l	97
12) Methyl Acetate	2.703	43	37088	22.741	ug/l	99
13) Acrolein	2.233	56	29519	114.412	ug/l	97
14) Acrylonitrile	3.063	53	64271	108.419	ug/l	98
15) Acetone	2.380	58	12436	61.031	ug/l	91
16) Carbon Disulfide	2.514	76	54664	17.545	ug/l	98
17) Allyl chloride	2.666	41	36122	19.029	ug/l	96
18) Methylene Chloride	2.788	84	27224	20.282	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	25973	19.278	ug/l	99
20) Diisopropyl ether	3.758	45	83157	20.817	ug/l	96
21) 1,1-Dichloroethane	3.611	63	47233	20.046	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	30901	19.758	ug/l	98
23) tert-Butyl Alcohol	2.971	59	20615	81.493	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	85079	20.331	ug/l	99
25) Chloroform	5.099	83	53778	20.057	ug/l	92
26) Cyclohexane	5.471	56	39018	18.933	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	35945	19.655	ug/l	99
30) 2-Butanone	4.556	43	87890	102.808	ug/l	99
31) 2,2-Dichloropropane	4.477	77	34859	18.137	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	46197	19.568	ug/l	99
33) Carbon Tetrachloride	5.678	117	40081	18.567	ug/l	96
34) Benzene	6.044	78	108908	20.780	ug/l	97
35) Methacrylonitrile	4.916	41	20425	23.313	ug/l	96
36) 1,2-Dichloroethane	6.086	62	43898	21.791	ug/l #	94
37) Trichloroethene	7.123	130	29974	20.142	ug/l	98
38) Methylcyclohexane	7.379	83	40779	18.923	ug/l	100
39) 1,2-Dichloropropane	7.428	63	27105	20.741	ug/l	100
40) Dibromomethane	7.580	93	21356	21.358	ug/l	99
41) Bromodichloromethane	7.824	83	40786	19.905	ug/l	99
42) Vinyl Acetate	3.721	43	317891	107.404	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	35583	23.149	ug/l	98
44) Isopropyl Acetate	6.336	43	56465	21.639	ug/l	98
45) 1,4-Dioxane	7.671	88	10755	351.894	ug/l #	91
46) Methyl methacrylate	7.690	41	28665	22.053	ug/l	97
47) n-amyl Acetate	10.842	43	48583	22.186	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	39019	18.985	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	42991	19.489	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	30776	22.257	ug/l	98
51) Ethyl methacrylate	9.116	69	42209	21.364	ug/l	96
52) 1,3-Dichloropropane	9.305	76	48724	21.579	ug/l	98
53) Dibromochloromethane	9.519	129	32166	19.357	ug/l	99
54) 1,2-Dibromoethane	9.610	107	32629	21.557	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	104198	112.328	ug/l	99
56) Bromoform	10.799	173	22410	18.683	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	184051	111.400	ug/l	99
59) 2-Hexanone	9.427	43	136412	107.974	ug/l	100
61) Tetrachloroethene	9.275	164	26576	19.425	ug/l	98
62) Toluene	8.720	91	122981	19.831	ug/l	99
64) Chlorobenzene	10.080	112	79018	20.142	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	29891	19.294	ug/l	99
66) Ethyl Benzene	10.195	91	137720	19.708	ug/l	99
67) m/p-Xylenes	10.299	106	108923	39.877	ug/l	96
68) o-Xylene	10.640	106	53477	20.094	ug/l	99
69) Styrene	10.653	104	87401	19.768	ug/l	99
70) Isopropylbenzene	10.964	105	137674	19.494	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	44917	21.505	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	40326m	21.681	ug/l	
73) Bromobenzene	11.201	156	35297	20.200	ug/l	99
74) n-propylbenzene	11.305	91	156689	19.361	ug/l	99
75) 2-Chlorotoluene	11.366	91	95304	19.591	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	116578	19.635	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	11105	17.956	ug/l	96
78) 4-Chlorotoluene	11.457	91	109352	19.616	ug/l	98
79) tert-butylbenzene	11.713	119	112333	19.086	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	117772	20.180	ug/l	99
81) sec-Butylbenzene	11.890	105	136073	19.236	ug/l	99
82) p-Isopropyltoluene	12.012	119	114033	18.903	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	64139	19.943	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	64338	19.875	ug/l	99
85) n-Butylbenzene	12.335	91	93333	18.535	ug/l	99
86) Hexachloroethane	12.536	117	17524	16.366	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	64451	20.337	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8877	19.507	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	38201	19.514	ug/l	98
90) Hexachlorobutadiene	13.725	225	15986	19.245	ug/l	99
91) Naphthalene	13.774	128	134246	21.189	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	38896	19.840	ug/l	97

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

