

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080624\
 Data File : VX042875.D
 Acq On : 06 Aug 2024 16:43
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/07/2024
 Supervised By : Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 05:01:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:53:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	42466	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	240527	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	224775	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	108059	27.557	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.867%		
60) 4-Bromofluorobenzene	11.079	95	105314	28.719	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.733%		
63) Toluene-d8	8.647	98	314349	30.961	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.200%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	41778	16.730	ug/l	97
3) Chloromethane	1.300	50	39419	17.197	ug/l	97
4) Vinyl Chloride	1.374	62	40790	16.670	ug/l	99
5) Bromomethane	1.599	94	22809	15.294	ug/l	96
6) Chloroethane	1.666	64	24651	16.939	ug/l	99
7) Trichlorofluoromethane	1.873	101	60796	15.581	ug/l	100
8) Diethyl Ether	2.136	74	26877	17.526	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.319	101	45022	16.923	ug/l	97
10) 1,1-Dichloroethene	2.306	96	40475	15.927	ug/l	99
11) Methyl Iodide	2.440	142	39607	16.937	ug/l	92
12) Methyl Acetate	2.709	43	117358	21.126	ug/l	96
13) Acrolein	2.239	56	13136	81.779	ug/l	99
14) Acrylonitrile	3.068	53	155773	92.247	ug/l	99
15) Acetone	2.392	58	39381	71.932	ug/l	85
16) Carbon Disulfide	2.501	76	78116	14.772	ug/l	99
17) Allyl chloride	2.660	41	69921	17.003	ug/l	96
18) Methylene Chloride	2.782	84	51396	17.438	ug/l	93
19) trans-1,2-Dichloroethene	3.087	96	43192	16.690	ug/l	99
20) Diisopropyl ether	3.769	45	159765	17.786	ug/l	94
21) 1,1-Dichloroethane	3.605	63	90676	17.752	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	55932	17.223	ug/l	94
23) tert-Butyl Alcohol	2.989	59	61763	79.333	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	163135	17.736	ug/l	99
25) Chloroform	5.099	83	95651	17.306	ug/l	100
26) Cyclohexane	5.464	56	64427	15.989	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	54774	17.671	ug/l	99
30) 2-Butanone	4.568	43	218294	95.633	ug/l	99
31) 2,2-Dichloropropane	4.471	77	55740	15.390	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	80996	18.874	ug/l	99
33) Carbon Tetrachloride	5.678	117	67329	18.342	ug/l	99
34) Benzene	6.037	78	192260	19.374	ug/l	98
35) Methacrylonitrile	4.934	41	42794	19.844	ug/l	94
36) 1,2-Dichloroethane	6.092	62	70549	19.263	ug/l	98
37) Trichloroethene	7.129	130	44631	17.765	ug/l	98
38) Methylcyclohexane	7.379	83	63375	16.498	ug/l	96
39) 1,2-Dichloropropane	7.433	63	48140	19.029	ug/l	95
40) Dibromomethane	7.586	93	35677	18.678	ug/l	98
41) Bromodichloromethane	7.824	83	69351	18.309	ug/l	99
42) Vinyl Acetate	3.727	43	623868	93.449	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.568	43	300710m	78.530	ug/l	
44) Isopropyl Acetate	6.348	43	118973	19.305	ug/l	99
45) 1,4-Dioxane	7.665	88	25220m	390.903	ug/l	
46) Methyl methacrylate	7.702	41	56619	18.487	ug/l	96
47) n-amyl Acetate	10.841	43	94662	17.956	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	60965	16.790	ug/l	100
49) cis-1,3-Dichloropropene	8.372	75	69837	17.760	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	51876	19.913	ug/l	99
51) Ethyl methacrylate	9.116	69	78555	18.428	ug/l	98
52) 1,3-Dichloropropane	9.311	76	80955	18.936	ug/l	100
53) Dibromochloromethane	9.525	129	53423	17.621	ug/l	99
54) 1,2-Dibromoethane	9.610	107	52216	19.272	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	202236	102.735	ug/l	98
56) Bromoform	10.799	173	36516	16.802	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	424970	100.397	ug/l	100
59) 2-Hexanone	9.433	43	326090	97.466	ug/l	99
61) Tetrachloroethene	9.275	164	41614	18.647	ug/l	95
62) Toluene	8.720	91	207487	18.847	ug/l	99
64) Chlorobenzene	10.079	112	131006	18.592	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	46140	18.038	ug/l	98
66) Ethyl Benzene	10.195	91	220388	18.011	ug/l	96
67) m/p-Xylenes	10.299	106	166671	36.026	ug/l	99
68) o-Xylene	10.640	106	83388	18.285	ug/l	98
69) Styrene	10.659	104	141245	17.986	ug/l	99
70) Isopropylbenzene	10.963	105	218399	18.195	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	82591	19.078	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	67173m	18.996	ug/l	
73) Bromobenzene	11.195	156	54144	17.753	ug/l	100
74) n-propylbenzene	11.305	91	243039	17.309	ug/l	100
75) 2-Chlorotoluene	11.366	91	154339	18.009	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	184151	18.101	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	18491	14.707	ug/l	88
78) 4-Chlorotoluene	11.457	91	169270	17.222	ug/l	100
79) tert-butylbenzene	11.713	119	186593	17.875	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	179922	17.926	ug/l	100
81) sec-Butylbenzene	11.890	105	223605	17.477	ug/l	99
82) p-Isopropyltoluene	12.006	119	180861	16.880	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	96542	17.198	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	95532	16.927	ug/l	100
85) n-Butylbenzene	12.335	91	147511	15.275	ug/l	98
86) Hexachloroethane	12.536	117	31464	16.271	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	98275	17.574	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	17857	18.259	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	55859	15.354	ug/l	99
90) Hexachlorobutadiene	13.725	225	25843	16.438	ug/l	95
91) Naphthalene	13.774	128	209988	17.146	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	59780	16.271	ug/l	98

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

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