

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070924\
 Data File : VX042237.D
 Acq On : 09 Jul 2024 09:41
 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 07/10/2024
 Supervised By : Mahesh Dadoda 07/10/2024

Quant Time: Jul 10 04:53:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	26233	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	157553	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	143906	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	57695	31.949	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 106.500%		
60) 4-Bromofluorobenzene	11.079	95	67936	30.498	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 101.667%		
63) Toluene-d8	8.647	98	183774	29.849	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 99.500%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	36332	21.395	ug/l	100
3) Chloromethane	1.301	50	39447	20.781	ug/l	98
4) Vinyl Chloride	1.374	62	36332	19.572	ug/l	96
5) Bromomethane	1.599	94	19883	20.037	ug/l	97
6) Chloroethane	1.666	64	18628	23.487	ug/l	99
7) Trichlorofluoromethane	1.868	101	51793	22.154	ug/l	98
8) Diethyl Ether	2.136	74	20320	20.084	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	35087	22.077	ug/l	99
10) 1,1-Dichloroethene	2.307	96	32994	20.580	ug/l	98
11) Methyl Iodide	2.441	142	38101	18.260	ug/l	96
12) Methyl Acetate	2.709	43	50496	24.704	ug/l	99
13) Acrolein	2.239	56	25413	61.661	ug/l	98
14) Acrylonitrile	3.069	53	98187	101.209	ug/l	97
15) Acetone	2.392	58	31368	113.027	ug/l	96
16) Carbon Disulfide	2.502	76	67786	19.293	ug/l	98
17) Allyl chloride	2.654	41	51546	21.170	ug/l	96
18) Methylene Chloride	2.782	84	39191	21.312	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	33284	20.725	ug/l	100
20) Diisopropyl ether	3.764	45	106599	21.300	ug/l	96
21) 1,1-Dichloroethane	3.605	63	61924	21.661	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	41982	21.595	ug/l	97
23) tert-Butyl Alcohol	2.989	59	34550	95.790	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	109120	22.003	ug/l	100
25) Chloroform	5.086	83	63626	21.900	ug/l	97
26) Cyclohexane	5.458	56	52237	21.038	ug/l #	100
29) 1,1-Dichloropropene	5.684	75	42033	20.441	ug/l	98
30) 2-Butanone	4.562	43	142312	103.576	ug/l	99
31) 2,2-Dichloropropane	4.465	77	49404	21.926	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	54856	21.045	ug/l	100
33) Carbon Tetrachloride	5.672	117	48126	21.407	ug/l	99
34) Benzene	6.031	78	140701	20.540	ug/l	100
35) Methacrylonitrile	4.922	41	27716	20.083	ug/l	95
36) 1,2-Dichloroethane	6.086	62	45992	21.552	ug/l	99
37) Trichloroethene	7.123	130	37811	20.208	ug/l	99
38) Methylcyclohexane	7.373	83	55579	20.406	ug/l	99
39) 1,2-Dichloropropane	7.428	63	33426	20.485	ug/l	97
40) Dibromomethane	7.580	93	24779	20.528	ug/l	98
41) Bromodichloromethane	7.818	83	45658	21.114	ug/l	99
42) Vinyl Acetate	3.721	43	460834	100.202	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	53329	20.700	ug/l	96
44) Isopropyl Acetate	6.342	43	76827	19.910	ug/l	100
45) 1,4-Dioxane	7.671	88	15270m	324.656	ug/l	
46) Methyl methacrylate	7.696	41	37976	20.129	ug/l	99
47) n-amyl Acetate	10.842	43	68411	19.755	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	45934	20.630	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	52340	20.957	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	37043	21.105	ug/l	98
51) Ethyl methacrylate	9.116	69	56916	20.413	ug/l	98
52) 1,3-Dichloropropane	9.305	76	59266	20.655	ug/l	100
53) Dibromochloromethane	9.519	129	40641	21.159	ug/l	98
54) 1,2-Dibromoethane	9.610	107	38870	21.001	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	151496	116.733	ug/l	99
56) Bromoform	10.799	173	32569	20.795	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	272034	105.494	ug/l	99
59) 2-Hexanone	9.433	43	211991	106.511	ug/l	100
61) Tetrachloroethene	9.269	164	38294	21.147	ug/l	97
62) Toluene	8.714	91	153092	21.023	ug/l	99
64) Chlorobenzene	10.079	112	104358	21.045	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	37633	21.974	ug/l	99
66) Ethyl Benzene	10.195	91	168644	21.183	ug/l	99
67) m/p-Xylenes	10.299	106	137193	42.841	ug/l	98
68) o-Xylene	10.640	106	67643	21.186	ug/l	99
69) Styrene	10.653	104	113374	21.250	ug/l	99
70) Isopropylbenzene	10.963	105	173597	21.625	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	58237	20.962	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	47705m	21.200	ug/l	
73) Bromobenzene	11.195	156	49976	21.343	ug/l	98
74) n-propylbenzene	11.305	91	191977	21.770	ug/l	100
75) 2-Chlorotoluene	11.366	91	120339	21.490	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	146118	21.726	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	16449	19.760	ug/l	90
78) 4-Chlorotoluene	11.451	91	134080	21.554	ug/l	100
79) tert-butylbenzene	11.713	119	157643	22.083	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	145940	21.721	ug/l	98
81) sec-Butylbenzene	11.890	105	183102	21.990	ug/l	100
82) p-Isopropyltoluene	12.006	119	160380	21.980	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	88645	21.232	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	89691	21.582	ug/l	98
85) n-Butylbenzene	12.329	91	122468	21.705	ug/l	99
86) Hexachloroethane	12.536	117	26300	22.071	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	90279	21.381	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	11744	20.436	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	59466	20.805	ug/l	99
90) Hexachlorobutadiene	13.725	225	30955	21.978	ug/l	98
91) Naphthalene	13.774	128	177351	20.536	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	62460	21.101	ug/l	98

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

