

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032924\
 Data File : VX040838.D
 Acq On : 29 Mar 2024 15:26
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/01/2024
 Supervised By : Mahesh Dadoda 04/01/2024

Quant Time: Mar 29 23:00:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 29 05:24:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.885	128	3480m	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.757	114	28146	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	35127	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	18052	30.267	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.900%			
60) 4-Bromofluorobenzene	11.079	95	23342	30.419	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.400%			
63) Toluene-d8	8.647	98	42067	30.548	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.833%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	11996	19.690	ug/l	98
3) Chloromethane	1.300	50	11211	20.158	ug/l	97
4) Vinyl Chloride	1.374	62	12364	21.573	ug/l	94
5) Bromomethane	1.611	94	9288	25.655	ug/l	97
6) Chloroethane	1.691	64	7407	20.434	ug/l	98
7) Trichlorofluoromethane	1.892	101	19154	19.275	ug/l	98
8) Diethyl Ether	2.130	74	5558	17.939	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.331	101	10833	19.487	ug/l	95
10) 1,1-Dichloroethene	2.319	96	10273	19.718	ug/l	88
11) Methyl Iodide	2.453	142	12771	17.933	ug/l	100
12) Methyl Acetate	2.697	43	14374	19.218	ug/l	94
13) Acrolein	2.233	56	6768	82.598	ug/l	96
14) Acrylonitrile	3.056	53	31863	97.850	ug/l	97
15) Acetone	2.380	58	8443	91.430	ug/l	82
16) Carbon Disulfide	2.514	76	29209	19.961	ug/l	100
17) Allyl chloride	2.666	41	18355	19.190	ug/l	87
18) Methylene Chloride	2.788	84	10957	19.545	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	11062	20.317	ug/l	98
20) Diisopropyl ether	3.751	45	36097	19.383	ug/l	88
21) 1,1-Dichloroethane	3.605	63	20979	19.954	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	12948	20.241	ug/l	94
23) tert-Butyl Alcohol	2.953	59	14938	98.891	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	36875	19.890	ug/l	95
25) Chloroform	5.086	83	22895	20.091	ug/l	100
26) Cyclohexane	5.464	56	17078	19.541	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	15493	19.727	ug/l	87
30) 2-Butanone	4.544	43	47403	95.392	ug/l	97
31) 2,2-Dichloropropane	4.471	77	17401	18.760	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	19907	19.197	ug/l	97
33) Carbon Tetrachloride	5.666	117	17541	19.597	ug/l	95
34) Benzene	6.031	78	44450	19.730	ug/l	98
35) Methacrylonitrile	4.910	41	9714	18.471	ug/l	97
36) 1,2-Dichloroethane	6.080	62	19110	19.522	ug/l	96
37) Trichloroethene	7.123	130	11012	19.786	ug/l	95
38) Methylcyclohexane	7.373	83	17531	18.907	ug/l	94
39) 1,2-Dichloropropane	7.427	63	10896	20.357	ug/l	99
40) Dibromomethane	7.574	93	9086	20.473	ug/l	98
41) Bromodichloromethane	7.818	83	18309	20.321	ug/l	96
42) Vinyl Acetate	3.715	43	175587	95.597	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	18860	19.500	ug/l	100
44) Isopropyl Acetate	6.336	43	29241	18.923	ug/l	95
45) 1,4-Dioxane	7.653	88	6144	424.614	ug/l	93
46) Methyl methacrylate	7.690	41	14899	20.026	ug/l	88
47) n-amyl Acetate	10.841	43	27141	19.505	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	16910	18.919	ug/l	99
49) cis-1,3-Dichloropropene	8.360	75	18014	19.509	ug/l	91
50) 1,1,2-Trichloroethane	9.147	97	11195	20.569	ug/l	92
51) Ethyl methacrylate	9.110	69	18565	19.530	ug/l	92
52) 1,3-Dichloropropane	9.305	76	18990	20.300	ug/l	99
53) Dibromochloromethane	9.518	129	12877	19.746	ug/l	96
54) 1,2-Dibromoethane	9.610	107	11683	19.394	ug/l	96
55) 2-Chloroethyl vinyl ether	8.238	63	49304	106.038	ug/l	99
56) Bromoform	10.799	173	8885	19.597	ug/l #	96
58) 4-Methyl-2-Pentanone	8.567	43	99520	100.314	ug/l	97
59) 2-Hexanone	9.427	43	75958	96.072	ug/l	95
61) Tetrachloroethene	9.269	164	9507	20.190	ug/l	97
62) Toluene	8.714	91	49513	20.841	ug/l	97
64) Chlorobenzene	10.079	112	31085	20.240	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	11362	21.110	ug/l	93
66) Ethyl Benzene	10.189	91	57535	20.603	ug/l	97
67) m/p-Xylenes	10.299	106	40802	39.799	ug/l	94
68) o-Xylene	10.640	106	19846	20.549	ug/l	95
69) Styrene	10.652	104	33655	20.083	ug/l	97
70) Isopropylbenzene	10.957	105	53687	20.406	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	17934	19.628	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	15910m	20.567	ug/l	
73) Bromobenzene	11.195	156	12854	20.489	ug/l	96
74) n-propylbenzene	11.299	91	67594	20.580	ug/l	100
75) 2-Chlorotoluene	11.360	91	40369	20.786	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	47384	20.813	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	5813	18.888	ug/l	87
78) 4-Chlorotoluene	11.451	91	47738	20.684	ug/l	98
79) tert-butylbenzene	11.713	119	44964	20.524	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	46571	20.642	ug/l	99
81) sec-Butylbenzene	11.890	105	57089	20.322	ug/l	98
82) p-Isopropyltoluene	12.006	119	48693	20.470	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	25066	20.577	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	25352	20.195	ug/l	99
85) n-Butylbenzene	12.329	91	42291	17.877	ug/l	99
86) Hexachloroethane	12.536	117	8195	19.391	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	22380	18.993	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	3852	16.380	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	14817	18.025	ug/l	96
90) Hexachlorobutadiene	13.725	225	6250	20.273	ug/l	99
91) Naphthalene	13.774	128	53744	19.548	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	15564	19.862	ug/l	99

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

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