

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071924\
 Data File : VX042392.D
 Acq On : 19 Jul 2024 10:10
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/19/2024
 Supervised By : Mahesh Dadoda 07/22/2024

Quant Time: Jul 19 10:47:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 10:46:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	29796	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	162779	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	155581	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	61169	29.822	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.400%	
60) 4-Bromofluorobenzene	11.079	95	73343	30.455	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.500%	
63) Toluene-d8	8.647	98	201820	30.320	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.067%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	80636	41.807	ug/l	98
3) Chloromethane	1.294	50	83656	38.800	ug/l	97
4) Vinyl Chloride	1.374	62	83118	39.421	ug/l	99
5) Bromomethane	1.599	94	41131	36.492	ug/l	98
6) Chloroethane	1.666	64	37345	41.456	ug/l	98
7) Trichlorofluoromethane	1.874	101	103705	39.055	ug/l	99
8) Diethyl Ether	2.136	74	44368	38.609	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	80432	44.557	ug/l	99
10) 1,1-Dichloroethene	2.313	96	76590	42.060	ug/l	97
11) Methyl Iodide	2.447	142	91123	38.448	ug/l	98
12) Methyl Acetate	2.709	43	134767	58.049	ug/l	99
13) Acrolein	2.239	56	80931	172.886	ug/l	98
14) Acrylonitrile	3.069	53	247606	224.706	ug/l	99
15) Acetone	2.392	58	66054	209.549	ug/l	99
16) Carbon Disulfide	2.502	76	149262	37.402	ug/l	99
17) Allyl chloride	2.660	41	130342	47.131	ug/l	97
18) Methylene Chloride	2.788	84	88765	42.498	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	77740	42.617	ug/l	96
20) Diisopropyl ether	3.764	45	264070	46.455	ug/l	99
21) 1,1-Dichloroethane	3.605	63	148155	45.628	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	99696	45.149	ug/l	98
23) tert-Butyl Alcohol	2.995	59	92912	226.794	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	260657	46.274	ug/l	99
25) Chloroform	5.093	83	153688	46.573	ug/l	100
26) Cyclohexane	5.464	56	121685	43.147	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	100564	47.334	ug/l	97
30) 2-Butanone	4.562	43	336009	236.699	ug/l	99
31) 2,2-Dichloropropane	4.477	77	115841	49.762	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	130352	48.403	ug/l	99
33) Carbon Tetrachloride	5.672	117	115153	49.578	ug/l	98
34) Benzene	6.038	78	332675	47.006	ug/l	99
35) Methacrylonitrile	4.922	41	69567	48.790	ug/l	97
36) 1,2-Dichloroethane	6.086	62	108719	49.310	ug/l	98
37) Trichloroethene	7.123	130	89446	46.270	ug/l	97
38) Methylcyclohexane	7.379	83	128548	45.680	ug/l	99
39) 1,2-Dichloropropane	7.428	63	82750	49.085	ug/l	100
40) Dibromomethane	7.580	93	59267	47.523	ug/l	99
41) Bromodichloromethane	7.824	83	111694	49.993	ug/l	100
42) Vinyl Acetate	3.721	43	1116225	234.915	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	121696	45.721	ug/l	97
44) Isopropyl Acetate	6.342	43	191773	48.104	ug/l	99
45) 1,4-Dioxane	7.665	88	42799	880.737	ug/l	93
46) Methyl methacrylate	7.696	41	95763	49.129	ug/l	99
47) n-amyl Acetate	10.842	43	174861	48.872	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	112719	49.000	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	127460	49.396	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	87808	48.422	ug/l	99
51) Ethyl methacrylate	9.116	69	140309	48.707	ug/l	99
52) 1,3-Dichloropropane	9.305	76	142664	48.123	ug/l	99
53) Dibromochloromethane	9.519	129	98809	49.792	ug/l	100
54) 1,2-Dibromoethane	9.610	107	92774	48.515	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	350750	261.589	ug/l	100
56) Bromoform	10.799	173	78629	48.592	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	661173	237.160	ug/l	99
59) 2-Hexanone	9.433	43	506754	235.504	ug/l	100
61) Tetrachloroethene	9.275	164	86563	44.216	ug/l	98
62) Toluene	8.720	91	361287	45.890	ug/l	100
64) Chlorobenzene	10.079	112	247409	46.148	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	88181	47.625	ug/l	99
66) Ethyl Benzene	10.195	91	404162	46.955	ug/l	99
67) m/p-Xylenes	10.299	106	323982	93.578	ug/l	97
68) o-Xylene	10.640	106	161139	46.683	ug/l	99
69) Styrene	10.653	104	276524	47.939	ug/l	99
70) Isopropylbenzene	10.963	105	414596	47.770	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	140908	46.912	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	113445m	46.631	ug/l	
73) Bromobenzene	11.195	156	117586	46.448	ug/l	100
74) n-propylbenzene	11.305	91	459360	48.182	ug/l	100
75) 2-Chlorotoluene	11.366	91	286858	47.383	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	347709	47.821	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	42767	47.520	ug/l	90
78) 4-Chlorotoluene	11.451	91	323034	48.033	ug/l	99
79) tert-butylbenzene	11.713	119	366351	47.467	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	348312	47.950	ug/l	98
81) sec-Butylbenzene	11.890	105	436705	48.512	ug/l	100
82) p-Isopropyltoluene	12.006	119	384638	48.759	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	209392	46.389	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	210165	46.776	ug/l	99
85) n-Butylbenzene	12.329	91	299439	49.088	ug/l	99
86) Hexachloroethane	12.536	117	63419	49.228	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	214127	46.907	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	29051	46.760	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	144166	46.654	ug/l	100
90) Hexachlorobutadiene	13.725	225	71345	46.855	ug/l	100
91) Naphthalene	13.774	128	445670	47.732	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	148691	46.462	ug/l	98

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

