

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011823\
 Data File : VX033770.D
 Acq On : 18 Jan 2023 13:24
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Quant Time: Jan 18 14:13:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 18 12:35:47 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/19/2023
 Supervised By : Mahesh Dadoda 01/19/2023

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

Internal Standards						
1) Bromochloromethane	4.903	128	16793	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	116087	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	126857	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	38053	27.986	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	93.300%	
60) 4-Bromofluorobenzene	11.079	95	68813	30.097	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.333%	
63) Toluene-d8	8.647	98	120545	29.692	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.967%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	83106	47.320	ug/l	98
3) Chloromethane	1.294	50	91976	48.857	ug/l	99
4) Vinyl Chloride	1.374	62	91106	53.577	ug/l	99
5) Bromomethane	1.617	94	58049	61.631	ug/l	95
6) Chloroethane	1.691	64	48613	48.814	ug/l	97
7) Trichlorofluoromethane	1.886	101	133133	50.734	ug/l	98
8) Diethyl Ether	2.130	74	49920	58.426	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	78050	57.360	ug/l	98
10) 1,1-Dichloroethene	2.319	96	75836	59.114	ug/l	97
11) Methyl Iodide	2.453	142	122358	55.483	ug/l	93
12) Methyl Acetate	2.709	43	138771	51.669	ug/l	95
13) Acrolein	2.239	56	68142	235.311	ug/l	100
14) Acrylonitrile	3.068	53	225688	254.818	ug/l	99
15) Acetone	2.392	58	67849	338.505	ug/l	93
16) Carbon Disulfide	2.514	76	195704	52.425	ug/l	97
17) Allyl chloride	2.666	41	143651	52.636	ug/l	86
18) Methylene Chloride	2.788	84	88940	49.505	ug/l	91
19) trans-1,2-Dichloroethene	3.093	96	85175	49.419	ug/l	90
20) Diisopropyl ether	3.757	45	278110	47.214	ug/l	96
21) 1,1-Dichloroethane	3.611	63	151571	46.922	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	100108	48.842	ug/l	96
23) tert-Butyl Alcohol	3.007	59	76888m	219.784	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	263656	48.129	ug/l	95
25) Chloroform	5.092	83	153566	46.836	ug/l	97
26) Cyclohexane	5.470	56	138319	46.135	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	115274	45.939	ug/l	97
30) 2-Butanone	4.562	43	319371	243.719	ug/l #	96
31) 2,2-Dichloropropane	4.477	77	110258	51.035	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	132185	45.121	ug/l	98
33) Carbon Tetrachloride	5.678	117	118816	44.934	ug/l	99
34) Benzene	6.037	78	345115	47.342	ug/l	99
35) Methacrylonitrile	4.916	41	70717	47.361	ug/l	97
36) 1,2-Dichloroethane	6.086	62	118192	44.601	ug/l	96
37) Trichloroethene	7.123	130	100876	47.982	ug/l	96
38) Methylcyclohexane	7.379	83	146745	47.031	ug/l	98
39) 1,2-Dichloropropane	7.427	63	89052	47.800	ug/l	96
40) Dibromomethane	7.580	93	62170	47.484	ug/l	96
41) Bromodichloromethane	7.824	83	117292	46.187	ug/l	99
42) Vinyl Acetate	3.721	43	1089723	232.705	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	123678	46.061	ug/l	98
44) Isopropyl Acetate	6.336	43	194408	46.149	ug/l	97
45) 1,4-Dioxane	7.714	88	41763m	908.716	ug/l	
46) Methyl methacrylate	7.689	41	99866	46.823	ug/l	96
47) n-amyl Acetate	10.841	43	175253	48.863	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	125440	48.342	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	139717	48.480	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	90265	47.495	ug/l	96
51) Ethyl methacrylate	9.116	69	136356	48.113	ug/l	98
52) 1,3-Dichloropropane	9.305	76	150736	47.354	ug/l	99
53) Dibromochloromethane	9.518	129	99925	48.239	ug/l	97
54) 1,2-Dibromoethane	9.610	107	97078	47.795	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	311508	227.366	ug/l	98
56) Bromoform	10.799	173	79799	50.174	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	604728	239.977	ug/l	97
59) 2-Hexanone	9.433	43	455646	245.689	ug/l	98
61) Tetrachloroethene	9.275	164	89396	48.842	ug/l	97
62) Toluene	8.720	91	378344	47.379	ug/l	98
64) Chlorobenzene	10.079	112	251482	48.895	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	92641	47.858	ug/l	97
66) Ethyl Benzene	10.195	91	432114	48.523	ug/l	99
67) m/p-Xylenes	10.299	106	345246	98.227	ug/l	100
68) o-Xylene	10.640	106	170266	49.286	ug/l	99
69) Styrene	10.652	104	282838	49.467	ug/l	99
70) Isopropylbenzene	10.963	105	440533	49.239	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	132886	49.328	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	122869m	50.347	ug/l	
73) Bromobenzene	11.195	156	117544	49.643	ug/l	98
74) n-propylbenzene	11.305	91	504576	49.674	ug/l	100
75) 2-Chlorotoluene	11.366	91	294778	48.518	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	365611	49.220	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	38884	53.257	ug/l	86
78) 4-Chlorotoluene	11.451	91	335681	49.268	ug/l	100
79) tert-butylbenzene	11.713	119	374608	49.173	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	364097	49.615	ug/l	98
81) sec-Butylbenzene	11.890	105	454555	49.312	ug/l	100
82) p-Isopropyltoluene	12.006	119	396092	49.821	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	215442	49.843	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	214320	49.732	ug/l	99
85) n-Butylbenzene	12.335	91	324011	50.128	ug/l	99
86) Hexachloroethane	12.536	117	62830	48.577	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	206099	49.498	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	28540	51.029	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	146074	51.009	ug/l	99
90) Hexachlorobutadiene	13.725	225	67746	49.338	ug/l	98
91) Naphthalene	13.774	128	432493	51.432	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	144325	50.230	ug/l	99

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

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