

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019468.D
 Acq On : 19 Nov 2020 16:02
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 11/20/2020 12:25:00 PM

Quant Time: Nov 19 17:28:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 19 17:22:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.97	128	50645	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.82	114	271148	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.09	117	255295	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.02	65	110397	32.34	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.80%
60) 4-Bromofluorobenzene	11.12	95	118747	30.46	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.53%
63) Toluene-d8	8.69	98	340286	30.19	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	12868	4.791 ug/l	98
3) Chloromethane	1.31	50	15548	6.145 ug/l	100
4) Vinyl Chloride	1.39	62	17165	5.414 ug/l	96
5) Bromomethane	1.62	94	7316	3.518 ug/l	95
6) Chloroethane	1.69	64	5245	2.697 ug/l	99
7) Trichlorofluoromethane	1.90	101	24634	4.626 ug/l	100
8) Diethyl Ether	2.17	74	10229	5.073 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.36	101	14524	5.549 ug/l	98
10) 1,1-Dichloroethene	2.35	96	14061	5.289 ug/l	95
11) Methyl Iodide	2.48	142	14738	5.451 ug/l	99
12) Methyl Acetate	2.75	43	16816	6.143 ug/l	94
13) Acrolein	2.28	56	13626	46.365 ug/l	99
14) Acrylonitrile	3.12	53	40610	31.233 ug/l	100
15) Acetone	2.42	58	12392	32.783 ug/l	94
16) Carbon Disulfide	2.54	76	35394	4.878 ug/l	98
17) Allyl chloride	2.70	41	19909	5.789 ug/l	95
18) Methylene Chloride	2.83	84	17747	5.764 ug/l	98
19) trans-1,2-Dichloroethene	3.13	96	15291	4.990 ug/l	99
20) Diisopropyl ether	3.82	45	43649	6.158 ug/l	92
21) 1,1-Dichloroethane	3.67	63	27509	5.519 ug/l	98
22) cis-1,2-Dichloroethene	4.56	96	17841	5.024 ug/l	96
23) tert-Butyl Alcohol	3.04	59	16952	27.048 ug/l	# 100
24) Methyl tert-Butyl Ether	3.17	73	45816	5.376 ug/l	97
25) Chloroform	5.17	83	29187	5.333 ug/l	100
26) Cyclohexane	5.54	56	23018	5.827 ug/l	# 96
29) 1,1-Dichloropropene	5.76	75	20864	5.253 ug/l	98
30) 2-Butanone	4.64	43	53312	31.630 ug/l	# 93
31) 2,2-Dichloropropane	4.54	77	23026	5.067 ug/l	100
32) 1,1,1-Trichloroethane	5.46	97	24733	5.191 ug/l	97
33) Carbon Tetrachloride	5.74	117	19975	4.844 ug/l	89
34) Benzene	6.10	78	65929	5.546 ug/l	98
35) Methacrylonitrile	5.00	41	11003	6.186 ug/l	96
36) 1,2-Dichloroethane	6.16	62	23612	5.772 ug/l	100
37) Trichloroethene	7.18	130	17604	5.230 ug/l	96
38) Methylcyclohexane	7.43	83	24419	5.392 ug/l	99
39) 1,2-Dichloropropane	7.48	63	15790	5.611 ug/l	93
40) Dibromomethane	7.63	93	10992	5.147 ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	20849	4.977	ug/l	99
42) Vinyl Acetate	3.78	43	176370	27.684	ug/l	100
43) Ethyl Acetate	4.79	43	20338	5.917	ug/l	100
44) Isopropyl Acetate	6.41	43	32546	5.683	ug/l	99
45) 1,4-Dioxane	7.72	88	7230	118.769	ug/l	99
46) Methyl methacrylate	7.74	41	15370	5.663	ug/l	93
47) n-amyl Acetate	10.88	43	23492	5.092	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	21551	4.627	ug/l	98
49) cis-1,3-Dichloropropene	8.41	75	24770	4.969	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	17389	5.558	ug/l	95
51) Ethyl methacrylate	9.16	69	21922	4.891	ug/l	96
52) 1,3-Dichloropropane	9.35	76	28735	5.644	ug/l	100
53) Dibromochloromethane	9.56	129	15292	4.499	ug/l	99
54) 1,2-Dibromoethane	9.65	107	17292	5.157	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	65019	27.446	ug/l	99
56) Bromoform	10.84	173	10006	4.217	ug/l	97
58) 4-Methyl-2-Pentanone	8.62	43	97662	28.390	ug/l	99
59) 2-Hexanone	9.47	43	75274	29.250	ug/l	98
61) Tetrachloroethene	9.32	164	17702	5.559	ug/l	96
62) Toluene	8.76	91	71499	5.156	ug/l	99
64) Chlorobenzene	10.12	112	43385	5.022	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.20	131	15169	4.825	ug/l	98
66) Ethyl Benzene	10.23	91	74896	4.915	ug/l	99
67) m/p-Xylenes	10.34	106	55094	9.496	ug/l	99
68) o-Xylene	10.68	106	26029	4.704	ug/l	97
69) Styrene	10.70	104	41907	4.481	ug/l	99
70) Isopropylbenzene	11.00	105	71231	4.767	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	24779	5.583	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	22901m	5.766	ug/l	
73) Bromobenzene	11.24	156	18741	5.125	ug/l	96
74) n-propylbenzene	11.34	91	80964	4.783	ug/l	100
75) 2-Chlorotoluene	11.40	91	50743	5.213	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	58760	4.819	ug/l	98
77) t-1,4-Dichloro-2-butene	11.05	75	5912	3.890	ug/l	83
78) 4-Chlorotoluene	11.49	91	57192	5.017	ug/l	100
79) tert-butylbenzene	11.76	119	55933	4.698	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	58249	4.806	ug/l	99
81) sec-Butylbenzene	11.93	105	67471	4.755	ug/l	98
82) p-Isopropyltoluene	12.05	119	59982	4.606	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	33741	5.119	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	33070	4.944	ug/l	98
85) n-Butylbenzene	12.37	91	52782	4.536	ug/l	98
86) Hexachloroethane	12.58	117	9182	4.508	ug/l	99
87) 1,2-Dichlorobenzene	12.37	146	32565	5.133	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	4576	4.665	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	19421	4.351	ug/l	98
90) Hexachlorobutadiene	13.76	225	9499	4.877	ug/l	94
91) Naphthalene	13.82	128	57407	3.948	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	19437	4.481	ug/l	97

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

