

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012519\
 Data File : VX007216.D
 Acq On : 25 Jan 2019 08:57
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 1/28/2019 12:04:58 PM

Quant Time: Jan 28 05:45:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 25 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	79322	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	432189	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	398694	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	162641	26.98	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	89.93%
60) 4-Bromofluorobenzene	11.13	95	181510	27.39	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.30%
63) Toluene-d8	8.71	98	535059	30.06	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	24249	3.926 ug/l	96
3) Chloromethane	1.33	50	25190	3.931 ug/l	99
4) Vinyl Chloride	1.41	62	26513	4.048 ug/l	99
5) Bromomethane	1.64	94	28811	9.166 ug/l	98
6) Chloroethane	1.72	64	16271	4.327 ug/l	91
7) Trichlorofluoromethane	1.93	101	43369	5.197 ug/l	97
8) Diethyl Ether	2.19	74	15281	4.492 ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.39	101	26130	5.453 ug/l	95
10) 1,1-Dichloroethene	2.37	96	22313	4.916 ug/l	90
11) Methyl Iodide	2.51	142	31939	8.643 ug/l	95
12) Methyl Acetate	2.78	43	39500	4.316 ug/l	96
13) Acrolein	2.29	56	16433	19.433 ug/l	95
14) Acrylonitrile	3.15	53	70668	18.894 ug/l	100
15) Acetone	2.45	58	18856	15.082 ug/l	92
16) Carbon Disulfide	2.57	76	51725	3.885 ug/l	99
17) Allyl chloride	2.73	41	35362	3.504 ug/l	92
18) Methylene Chloride	2.86	84	27348	5.181 ug/l	86
19) trans-1,2-Dichloroethene	3.17	96	24491	5.050 ug/l	86
20) Diisopropyl ether	3.87	45	69411	4.033 ug/l #	93
21) 1,1-Dichloroethane	3.70	63	43058	4.541 ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	26366	4.915 ug/l	87
23) tert-Butyl Alcohol	3.07	59	29768	17.243 ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	74969	4.495 ug/l	97
25) Chloroform	5.21	83	41611	4.663 ug/l	86
26) Cyclohexane	5.58	56	34652	4.258 ug/l #	91
29) 1,1-Dichloropropene	5.79	75	28722	4.491 ug/l	93
30) 2-Butanone	4.70	43	83217	16.004 ug/l	97
31) 2,2-Dichloropropane	4.57	77	28415m	4.050 ug/l	
32) 1,1,1-Trichloroethane	5.49	97	33530	4.561 ug/l	100
33) Carbon Tetrachloride	5.77	117	28935	4.481 ug/l	89
34) Benzene	6.14	78	92036	4.742 ug/l #	96
35) Methacrylonitrile	5.05	41	17802	3.684 ug/l	94
36) 1,2-Dichloroethane	6.20	62	32196	4.605 ug/l	96
37) Trichloroethene	7.21	130	27669	5.412 ug/l	98
38) Methylcyclohexane	7.46	83	39753	5.236 ug/l	88
39) 1,2-Dichloropropane	7.51	63	22797	4.409 ug/l	98
40) Dibromomethane	7.66	93	16583	4.948 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	25404	3.932	ug/l #	92
42) Vinyl Acetate	3.82	43	297474	19.775	ug/l	96
43) Ethyl Acetate	4.85	43	33784	3.939	ug/l #	78
44) Isopropyl Acetate	6.46	43	48470	3.787	ug/l	99
45) 1,4-Dioxane	7.76	88	12737	84.462	ug/l	94
46) Methyl methacrylate	7.77	41	24326	3.663	ug/l	91
47) n-amyl Acetate	10.90	43	38333	3.246	ug/l	92
48) t-1,3-Dichloropropene	9.04	75	25454	3.444	ug/l	94
49) cis-1,3-Dichloropropene	8.43	75	29999	3.744	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	24958	4.919	ug/l	89
51) Ethyl methacrylate	9.18	69	32662	4.056	ug/l	93
52) 1,3-Dichloropropane	9.37	76	40307	4.708	ug/l	98
53) Dibromochloromethane	9.58	129	20387	3.873	ug/l	100
54) 1,2-Dibromoethane	9.67	107	25354	4.795	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	87330	20.552	ug/l	96
56) Bromoform	10.85	173	14453	3.287	ug/l	96
58) 4-Methyl-2-Pentanone	8.65	43	158182	17.670	ug/l	97
59) 2-Hexanone	9.49	43	117934	15.990	ug/l	98
61) Tetrachloroethene	9.34	164	30914	6.371	ug/l	93
62) Toluene	8.78	91	104586	4.991	ug/l	98
64) Chlorobenzene	10.13	112	70213	5.189	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	21855	4.443	ug/l	100
66) Ethyl Benzene	10.25	91	111197	4.861	ug/l	97
67) m/p-Xylenes	10.36	106	86380	9.698	ug/l	95
68) o-Xylene	10.69	106	43398	5.055	ug/l	91
69) Styrene	10.71	104	65333	4.525	ug/l	97
70) Isopropylbenzene	11.02	105	112796	4.906	ug/l	94
71) 1,1,2,2-Tetrachloroethane	11.27	83	35897	4.204	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	34055m	4.378	ug/l	
73) Bromobenzene	11.26	156	32794	5.189	ug/l	92
74) n-propylbenzene	11.36	91	124854	4.616	ug/l	95
75) 2-Chlorotoluene	11.42	91	77209	4.680	ug/l	93
76) 1,3,5-Trimethylbenzene	11.51	105	93842	4.731	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	6555	2.563	ug/l	75
78) 4-Chlorotoluene	11.51	91	87715	4.574	ug/l	96
79) tert-butylbenzene	12.06	119	100284	4.764	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	94048	4.649	ug/l	98
81) sec-Butylbenzene	11.94	105	113191	4.834	ug/l	99
82) p-Isopropyltoluene	12.06	119	100284	4.764	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	56016	4.793	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	55086	4.645	ug/l	99
85) n-Butylbenzene	12.39	91	80603	4.215	ug/l	97
86) Hexachloroethane	12.60	117	12929	3.728	ug/l	86
87) 1,2-Dichlorobenzene	12.39	146	55459	4.668	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	6236	3.160	ug/l	93
89) 1,2,4-Trichlorobenzene	13.65	180	35276	3.981	ug/l	99
90) Hexachlorobutadiene	13.78	225	18465	4.221	ug/l	96
91) Naphthalene	13.83	128	102780	3.730	ug/l	98
92) 1,2,3-Trichlorobenzene	14.02	180	35585	3.916	ug/l	99

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

