

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008471.D
 Acq On : 27 Mar 2019 10:07
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/28/2019 9:36:53 AM

Quant Time: Mar 27 11:33:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 11:27:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	40112	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	233382	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	206136	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	100710	36.74	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	122.47%
60) 4-Bromofluorobenzene	11.13	95	106457	31.73	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	105.77%
63) Toluene-d8	8.71	98	296582	31.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	13919	6.467	ug/l 99
3) Chloromethane	1.32	50	18668	8.483	ug/l 96
4) Vinyl Chloride	1.40	62	19066	7.687	ug/l 97
5) Bromomethane	1.64	94	9267	2.061	ug/l 99
6) Chloroethane	1.72	64	16578	9.405	ug/l 96
7) Trichlorofluoromethane	1.93	101	21392	5.418	ug/l 97
8) Diethyl Ether	2.18	74	10225	6.678	ug/l 81
9) 1,1,2-Trichlorotrifluoroet	2.38	101	13788	6.315	ug/l 90
10) 1,1-Dichloroethene	2.37	96	13202	6.125	ug/l # 77
11) Methyl Iodide	2.51	142	10615	3.258	ug/l 94
12) Methyl Acetate	3.18	43	10728	4.562	ug/l 95
13) Acrolein	2.29	56	14775	40.102	ug/l 99
14) Acrylonitrile	3.14	53	48756	41.773	ug/l 99
15) Acetone	2.44	58	14380	31.419	ug/l 96
16) Carbon Disulfide	2.57	76	40999	6.861	ug/l 100
17) Allyl chloride	2.73	41	29191	9.178	ug/l 91
18) Methylene Chloride	2.85	84	16406	7.071	ug/l # 83
19) trans-1,2-Dichloroethene	3.16	96	14308	6.254	ug/l 85
20) Diisopropyl ether	3.85	45	58248	8.759	ug/l # 81
21) 1,1-Dichloroethane	3.69	63	29062	7.400	ug/l 97
22) cis-1,2-Dichloroethene	4.59	96	16569	6.279	ug/l # 81
23) tert-Butyl Alcohol	3.04	59	19266	40.661	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	48554	7.012	ug/l 99
25) Chloroform	5.20	83	26707	6.410	ug/l 96
26) Cyclohexane	5.57	56	29266	8.426	ug/l # 81
29) 1,1-Dichloropropene	5.79	75	20126	6.072	ug/l 93
30) 2-Butanone	4.67	43	71384	37.389	ug/l 94
31) 2,2-Dichloropropane	4.58	77	19624	6.288	ug/l 96
32) 1,1,1-Trichloroethane	5.49	97	20970	5.377	ug/l # 94
33) Carbon Tetrachloride	5.78	117	17343	4.842	ug/l 93
34) Benzene	6.14	78	63332	6.414	ug/l 97
35) Methacrylonitrile	5.04	41	15357	8.635	ug/l 92
36) 1,2-Dichloroethane	6.19	62	23102	6.348	ug/l 99
37) Trichloroethene	7.21	130	14471	4.985	ug/l # 76
38) Methylcyclohexane	7.46	83	26282	6.326	ug/l 88
39) 1,2-Dichloropropane	7.51	63	18239	7.260	ug/l 98
40) Dibromomethane	7.66	93	10483	5.689	ug/l 86

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

41) Bromodichloromethane	7.90	83	19144	5.475	ug/l	98
42) Vinyl Acetate	3.81	43	248049	38.654	ug/l #	94
43) Ethyl Acetate	4.83	43	25255	7.494	ug/l #	74
44) Isopropyl Acetate	6.44	43	40859	7.704	ug/l	100
45) 1,4-Dioxane	7.74	88	8809	132.053	ug/l #	86
46) Methyl methacrylate	7.77	41	20684	7.948	ug/l	91
47) n-amyl Acetate	10.90	43	34750	7.642	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	19498	5.570	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	22806	5.838	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	15499	5.855	ug/l	96
51) Ethyl methacrylate	9.18	69	26530	6.865	ug/l	92
52) 1,3-Dichloropropane	9.37	76	27041	6.369	ug/l	99
53) Dibromochloromethane	9.58	129	13880	4.651	ug/l	98
54) 1,2-Dibromoethane	9.67	107	15477	5.329	ug/l	96
55) 2-Chloroethyl vinyl ether	8.31	63	62526	32.157	ug/l #	94
56) Bromoform	10.85	173	9310	3.952	ug/l #	97
58) 4-Methyl-2-Pentanone	8.64	43	136845	39.428	ug/l	96
59) 2-Hexanone	9.49	43	105660	38.485	ug/l	97
61) Tetrachloroethene	9.33	164	12382	4.462	ug/l	95
62) Toluene	8.78	91	67516	6.171	ug/l	99
64) Chlorobenzene	10.13	112	38106	5.402	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.22	131	12912	4.793	ug/l	98
66) Ethyl Benzene	10.25	91	72151	6.097	ug/l	96
67) m/p-Xylenes	10.36	106	52000	11.057	ug/l	89
68) o-Xylene	10.69	106	25623	5.671	ug/l	92
69) Styrene	10.71	104	42759	5.606	ug/l	95
70) Isopropylbenzene	11.02	105	68769	5.785	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	24734	6.102	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	21010m	6.435	ug/l	
73) Bromobenzene	11.25	156	15597	4.742	ug/l	76
74) n-propylbenzene	11.36	91	79733	6.018	ug/l	93
75) 2-Chlorotoluene	11.42	91	48009	6.067	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	57595	5.672	ug/l	94
77) t-1,4-Dichloro-2-butene	11.07	75	6134	5.303	ug/l	89
78) 4-Chlorotoluene	11.51	91	54760	5.880	ug/l	90
79) tert-butylbenzene	12.06	119	58460	5.473	ug/l	95
80) 1,2,4-Trimethylbenzene	11.80	105	57323	5.681	ug/l	94
81) sec-Butylbenzene	11.94	105	66501	5.741	ug/l	96
82) p-Isopropyltoluene	12.06	119	58460	5.473	ug/l	95
83) 1,3-Dichlorobenzene	12.02	146	28215	4.943	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	28023	4.930	ug/l	95
85) n-Butylbenzene	12.38	91	52399	5.703	ug/l	96
86) Hexachloroethane	12.60	117	8746	4.751	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	28705	5.099	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	13.00	75	5125	5.523	ug/l #	73
89) 1,2,4-Trichlorobenzene	13.65	180	18973	4.762	ug/l	98
90) Hexachlorobutadiene	13.78	225	9557	4.765	ug/l	99
91) Naphthalene	13.83	128	65339	5.460	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	19790	4.913	ug/l	98

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

