

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013149.D
 Acq On : 21 Oct 2019 12:13
 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
 10/22/2019 12:30:06 PM

Quant Time: Oct 22 01:47:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:38:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	27512	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	161557	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	144837	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	64595	30.46	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.53%
60) 4-Bromofluorobenzene	11.13	95	73276	28.91	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.37%
63) Toluene-d8	8.71	98	194222	29.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	10485	5.546	ug/l 96
3) Chloromethane	1.32	50	9251	5.113	ug/l 99
4) Vinyl Chloride	1.40	62	9530	5.214	ug/l 96
5) Bromomethane	1.63	94	5611	6.463	ug/l 98
6) Chloroethane	1.71	64	6959	6.232	ug/l 93
7) Trichlorofluoromethane	1.92	101	15920	5.843	ug/l 92
8) Diethyl Ether	2.18	74	5587	5.706	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	10282	6.048	ug/l 91
10) 1,1-Dichloroethene	2.36	96	9429	5.641	ug/l 90
11) Methyl Iodide	2.50	142	9677	4.663	ug/l 91
12) Methyl Acetate	2.76	43	11840	5.110	ug/l 96
13) Acrolein	2.28	56	6085	17.962	ug/l 94
14) Acrylonitrile	3.13	53	24540	25.404	ug/l 99
15) Acetone	2.43	58	8035	24.382	ug/l 87
16) Carbon Disulfide	2.56	76	24206	5.366	ug/l 99
17) Allyl chloride	2.72	41	14642	5.220	ug/l 94
18) Methylene Chloride	2.84	84	12154	6.397	ug/l 98
19) trans-1,2-Dichloroethene	3.15	96	9969	5.590	ug/l 96
20) Diisopropyl ether	3.84	45	28564	5.322	ug/l 97
21) 1,1-Dichloroethane	3.69	63	17812	5.699	ug/l 96
22) cis-1,2-Dichloroethene	4.58	96	11269	5.475	ug/l 95
23) tert-Butyl Alcohol	3.03	59	14773	30.026	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	32101	5.649	ug/l 100
25) Chloroform	5.19	83	18537	5.719	ug/l 96
26) Cyclohexane	5.57	56	15578	5.525	ug/l # 59
29) 1,1-Dichloropropene	5.79	75	13503	5.407	ug/l # 83
30) 2-Butanone	4.66	43	34705	24.309	ug/l 98
31) 2,2-Dichloropropane	4.57	77	15868	5.651	ug/l # 86
32) 1,1,1-Trichloroethane	5.48	97	16597	5.669	ug/l # 89
33) Carbon Tetrachloride	5.77	117	13493	5.373	ug/l 90
34) Benzene	6.12	78	38732	5.285	ug/l 98
35) Methacrylonitrile	5.02	41	7231	5.114	ug/l 89
36) 1,2-Dichloroethane	6.18	62	15307	5.717	ug/l 95
37) Trichloroethene	7.20	130	10975	5.554	ug/l 95
38) Methylcyclohexane	7.45	83	16604	5.466	ug/l 96
39) 1,2-Dichloropropane	7.50	63	9532	5.217	ug/l 97
40) Dibromomethane	7.66	93	6583	5.211	ug/l 96

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

41) Bromodichloromethane	7.89	83	13019	5.193	ug/l	95
42) Vinyl Acetate	3.80	43	119810	25.276	ug/l	100
43) Ethyl Acetate	4.82	43	12633	4.875	ug/l #	89
44) Isopropyl Acetate	6.44	43	20987	5.008	ug/l	98
45) 1,4-Dioxane	7.74	88	5475	104.477	ug/l	95
46) Methyl methacrylate	7.76	41	10251	4.964	ug/l	93
47) n-amyl Acetate	10.89	43	16356	4.580	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	13212	4.768	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	15094	4.956	ug/l	93
50) 1,1,2-Trichloroethane	9.21	97	10185	5.374	ug/l	95
51) Ethyl methacrylate	9.17	69	14345	4.819	ug/l	96
52) 1,3-Dichloropropane	9.37	76	16964	5.348	ug/l	93
53) Dibromochloromethane	9.57	129	9820	5.014	ug/l	99
54) 1,2-Dibromoethane	9.67	107	10588	5.316	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	27721	21.648	ug/l	99
56) Bromoform	10.85	173	6349	4.646	ug/l #	98
58) 4-Methyl-2-Pentanone	8.64	43	64472	24.700	ug/l	99
59) 2-Hexanone	9.48	43	50361	24.773	ug/l	98
61) Tetrachloroethene	9.33	164	11180	6.013	ug/l	97
62) Toluene	8.78	91	43137	5.478	ug/l	100
64) Chlorobenzene	10.14	112	27885	5.568	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.21	131	9785	5.288	ug/l	98
66) Ethyl Benzene	10.25	91	48433	5.373	ug/l	99
67) m/p-Xylenes	10.36	106	37318	10.982	ug/l	97
68) o-Xylene	10.70	106	17854	5.450	ug/l	93
69) Styrene	10.71	104	28562	5.021	ug/l	96
70) Isopropylbenzene	11.01	105	48965	5.520	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.26	83	15216	5.368	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	12123m	4.938	ug/l	
73) Bromobenzene	11.25	156	12249	5.803	ug/l	93
74) n-propylbenzene	11.35	91	51302	5.216	ug/l	99
75) 2-Chlorotoluene	11.42	91	32445	5.327	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	38503	5.136	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	4022	4.323	ug/l	88
78) 4-Chlorotoluene	11.51	91	36432	5.211	ug/l	100
79) tert-butylbenzene	11.76	119	38571	5.473	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	39750	5.331	ug/l	98
81) sec-Butylbenzene	11.94	105	45396	5.310	ug/l	100
82) p-Isopropyltoluene	12.06	119	40388	5.171	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	21498	5.642	ug/l	97
84) 1,4-Dichlorobenzene	12.09	146	20883	5.430	ug/l	98
85) n-Butylbenzene	12.39	91	32619	4.919	ug/l	100
86) Hexachloroethane	12.59	117	6446	4.775	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	19713	5.211	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	12.99	75	3342	4.987	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	11410	4.862	ug/l	99
90) Hexachlorobutadiene	13.78	225	6523	5.780	ug/l	95
91) Naphthalene	13.83	128	37005	4.671	ug/l	98
92) 1,2,3-Trichlorobenzene	14.02	180	12325	5.208	ug/l	96

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

