

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013151.D
 Acq On : 21 Oct 2019 13:00
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 12:30:15 PM

Quant Time: Oct 22 01:50:55 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	5.01	128	27026	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	151879	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	137384	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	62584	30.05	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.17%
60) 4-Bromofluorobenzene	11.14	95	70664	29.39	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.97%
63) Toluene-d8	8.71	98	184101	29.49	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	91704	49.377	ug/l 97
3) Chloromethane	1.32	50	78751	44.312	ug/l 93
4) Vinyl Chloride	1.40	62	81457	45.369	ug/l 95
5) Bromomethane	1.63	94	39838	46.710	ug/l 96
6) Chloroethane	1.71	64	48335	44.063	ug/l 100
7) Trichlorofluoromethane	1.92	101	129611	48.429	ug/l 97
8) Diethyl Ether	2.18	74	44169	45.918	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	77333	46.303	ug/l 99
10) 1,1-Dichloroethene	2.36	96	76862	46.815	ug/l 98
11) Methyl Iodide	2.50	142	106814	52.394	ug/l 99
12) Methyl Acetate	2.76	43	102009	44.815	ug/l 98
13) Acrolein	2.28	56	81494	244.878	ug/l 99
14) Acrylonitrile	3.13	53	213538	225.028	ug/l 98
15) Acetone	2.44	58	72499	223.948	ug/l 93
16) Carbon Disulfide	2.56	76	204742	46.205	ug/l 99
17) Allyl chloride	2.72	41	124018	45.007	ug/l 98
18) Methylene Chloride	2.85	84	86864	46.540	ug/l 96
19) trans-1,2-Dichloroethene	3.15	96	81021	46.248	ug/l 98
20) Diisopropyl ether	3.84	45	239459	45.420	ug/l 96
21) 1,1-Dichloroethane	3.69	63	143036	46.588	ug/l 96
22) cis-1,2-Dichloroethene	4.59	96	93798	46.390	ug/l 99
23) tert-Butyl Alcohol	3.03	59	107212	221.823	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	267669	47.949	ug/l 98
25) Chloroform	5.20	83	151890	47.703	ug/l 98
26) Cyclohexane	5.57	56	124746	45.038	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	113477	48.337	ug/l 87
30) 2-Butanone	4.66	43	308366	229.758	ug/l 97
31) 2,2-Dichloropropane	4.57	77	130830	49.563	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	137780	50.059	ug/l 99
33) Carbon Tetrachloride	5.78	117	118994	50.408	ug/l 97
34) Benzene	6.14	78	327388	47.521	ug/l 99
35) Methacrylonitrile	5.03	41	62081	46.704	ug/l 97
36) 1,2-Dichloroethane	6.18	62	122611	48.715	ug/l 99
37) Trichloroethene	7.21	130	89773	48.329	ug/l 96
38) Methylcyclohexane	7.46	83	136435	47.776	ug/l 99
39) 1,2-Dichloropropane	7.51	63	80107	46.639	ug/l 96
40) Dibromomethane	7.65	93	58299	49.090	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	116014	49.223	ug/l	99
42) Vinyl Acetate	3.80	43	1056858	237.166	ug/l	100
43) Ethyl Acetate	4.82	43	113311	46.515	ug/l	97
44) Isopropyl Acetate	6.43	43	183633	46.615	ug/l	98
45) 1,4-Dioxane	7.73	88	47998	974.289	ug/l	99
46) Methyl methacrylate	7.76	41	90798	46.768	ug/l	93
47) n-amyl Acetate	10.89	43	154232	45.942	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	129337	49.648	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	140039	48.915	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	84694	47.537	ug/l	97
51) Ethyl methacrylate	9.17	69	135983	48.596	ug/l	97
52) 1,3-Dichloropropane	9.37	76	142966	47.945	ug/l	100
53) Dibromochloromethane	9.58	129	93930	51.012	ug/l	99
54) 1,2-Dibromoethane	9.67	107	91360	48.792	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	304539	252.971	ug/l	100
56) Bromoform	10.85	173	66975	52.133	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	566469	228.795	ug/l	100
59) 2-Hexanone	9.49	43	446684	231.646	ug/l	99
61) Tetrachloroethene	9.33	164	89004	50.466	ug/l	97
62) Toluene	8.78	91	358570	48.007	ug/l	100
64) Chlorobenzene	10.14	112	229583	48.332	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	85396	48.654	ug/l	99
66) Ethyl Benzene	10.25	91	413164	48.319	ug/l	98
67) m/p-Xylenes	10.35	106	310396	96.298	ug/l	98
68) o-Xylene	10.70	106	150925	48.572	ug/l	93
69) Styrene	10.71	104	260023	48.189	ug/l	99
70) Isopropylbenzene	11.01	105	407363	48.416	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	128809	47.903	ug/l	95
72) 1,2,3-Trichloropropane	11.29	75	104249m	44.768	ug/l	
73) Bromobenzene	11.25	156	95685	47.791	ug/l	98
74) n-propylbenzene	11.35	91	443266	47.516	ug/l	99
75) 2-Chlorotoluene	11.42	91	281470	48.720	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	352426	49.557	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	43491	49.281	ug/l	95
78) 4-Chlorotoluene	11.51	91	326174	49.185	ug/l	98
79) tert-butylbenzene	11.76	119	330360	49.419	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	335248	47.401	ug/l	98
81) sec-Butylbenzene	11.94	105	393449	48.517	ug/l	100
82) p-Isopropyltoluene	12.06	119	358200	48.351	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	173202	47.924	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	172764	47.362	ug/l	99
85) n-Butylbenzene	12.39	91	305134	48.510	ug/l	98
86) Hexachloroethane	12.59	117	62975	49.176	ug/l	94
87) 1,2-Dichlorobenzene	12.39	146	172141	47.970	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	32197	50.652	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	108973	48.950	ug/l	98
90) Hexachlorobutadiene	13.78	225	53596	50.064	ug/l	98
91) Naphthalene	13.83	128	360817	48.019	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	115684	51.533	ug/l	96

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

