

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022120\
 Data File : VX014983.D
 Acq On : 21 Feb 2020 09:14
 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
 2/24/2020 11:28:44 AM

Quant Time: Feb 22 00:29:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 21 10:51:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	83999	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	455536	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	407584	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	178766	30.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.80%
60) 4-Bromofluorobenzene	11.13	95	185709	28.58	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.27%
63) Toluene-d8	8.71	98	542218	29.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.77%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.19	85	21645	4.064	ug/l	96
3) Chloromethane	1.32	50	26322	4.395	ug/l	94
4) Vinyl Chloride	1.41	62	27282	4.082	ug/l	92
5) Bromomethane	1.64	94	19136	4.384	ug/l	97
6) Chloroethane	1.72	64	19218	4.955	ug/l	98
7) Trichlorofluoromethane	1.93	101	39964	5.108	ug/l	97
8) Diethyl Ether	2.18	74	15497	4.558	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	22338	4.901	ug/l	96
10) 1,1-Dichloroethene	2.37	96	22122	4.818	ug/l	98
11) Methyl Iodide	2.50	142	18714	3.113	ug/l	96
12) Methyl Acetate	2.76	43	26595	3.417	ug/l	98
13) Acrolein	2.28	56	27723	30.340	ug/l	98
14) Acrylonitrile	3.13	53	58241	21.032	ug/l	97
15) Acetone	2.43	58	21123	22.293	ug/l	99
16) Carbon Disulfide	2.56	76	58167m	4.639	ug/l	
17) Allyl chloride	2.72	41	36815	4.381	ug/l	94
18) Methylene Chloride	2.85	84	26837	5.009	ug/l	96
19) trans-1,2-Dichloroethene	3.16	96	24590	4.956	ug/l	96
20) Diisopropyl ether	3.84	45	77774	4.642	ug/l	90
21) 1,1-Dichloroethane	3.69	63	42754	4.706	ug/l	98
22) cis-1,2-Dichloroethene	4.59	96	26563	4.640	ug/l	96
23) tert-Butyl Alcohol	3.02	59	23169	20.202	ug/l	100
24) Methyl tert-Butyl Ether	3.18	73	71491	4.686	ug/l	98
25) Chloroform	5.20	83	43604	4.901	ug/l	94
26) Cyclohexane	5.57	56	37205	4.453	ug/l #	98
29) 1,1-Dichloropropene	5.79	75	31510	4.783	ug/l	99
30) 2-Butanone	4.65	43	86389	21.012	ug/l	100
31) 2,2-Dichloropropane	4.57	77	34850	4.910	ug/l	94
32) 1,1,1-Trichloroethane	5.48	97	36703	5.004	ug/l	96
33) Carbon Tetrachloride	5.77	117	32038	5.062	ug/l	92
34) Benzene	6.13	78	98398	4.859	ug/l	97
35) Methacrylonitrile	5.02	41	18409m	4.505	ug/l	
36) 1,2-Dichloroethane	6.19	62	35067m	4.957	ug/l	
37) Trichloroethene	7.20	130	26756	4.820	ug/l	98
38) Methylcyclohexane	7.45	83	39015	4.771	ug/l	98
39) 1,2-Dichloropropane	7.50	63	25070	4.770	ug/l	100
40) Dibromomethane	7.65	93	16653	4.865	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	30337	4.529	ug/l	95
42) Vinyl Acetate	3.80	43	304276	23.443	ug/l	99
43) Ethyl Acetate	4.82	43	31050	4.191	ug/l	98
44) Isopropyl Acetate	6.43	43	52454	4.348	ug/l	99
45) 1,4-Dioxane	7.73	88	9698	81.847	ug/l	96
46) Methyl methacrylate	7.76	41	25075	4.232	ug/l	88
47) n-amyl Acetate	10.89	43	39978	3.913	ug/l	98
48) t-1,3-Dichloropropene	9.03	75	31341	4.287	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	35799	4.355	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	24280	4.693	ug/l	95
51) Ethyl methacrylate	9.17	69	33152	4.115	ug/l	99
52) 1,3-Dichloropropane	9.36	76	41961	4.787	ug/l	97
53) Dibromochloromethane	9.57	129	23424	4.371	ug/l	95
54) 1,2-Dibromoethane	9.67	107	26049	4.858	ug/l	95
55) 2-Chloroethyl vinyl ether	8.30	63	101352	26.585	ug/l	100
56) Bromoform	10.85	173	17365	4.206	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	156166	21.056	ug/l	99
59) 2-Hexanone	9.48	43	117968	20.479	ug/l	99
61) Tetrachloroethene	9.33	164	29002	4.922	ug/l	93
62) Toluene	8.78	91	107139	5.018	ug/l	97
64) Chlorobenzene	10.13	112	66978	5.010	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	23594	4.774	ug/l	99
66) Ethyl Benzene	10.25	91	109289	4.683	ug/l	100
67) m/p-Xylenes	10.36	106	84512	9.460	ug/l	98
68) o-Xylene	10.70	106	41211	4.740	ug/l	100
69) Styrene	10.71	104	66815	4.532	ug/l	99
70) Isopropylbenzene	11.01	105	110448	4.826	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	35432	4.648	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	29919m	4.485	ug/l	
73) Bromobenzene	11.25	156	29747	4.887	ug/l	99
74) n-propylbenzene	11.35	91	119121	4.550	ug/l	100
75) 2-Chlorotoluene	11.42	91	73668	4.703	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	87776	4.599	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	9364	3.714	ug/l	89
78) 4-Chlorotoluene	11.51	91	82596	4.639	ug/l	100
79) tert-butylbenzene	11.76	119	86152	4.798	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	87566	4.612	ug/l	100
81) sec-Butylbenzene	11.94	105	102305	4.618	ug/l	99
82) p-Isopropyltoluene	12.06	119	92576	4.572	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	51005	4.809	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	51660	4.869	ug/l	99
85) n-Butylbenzene	12.38	91	73361	4.139	ug/l	99
86) Hexachloroethane	12.59	117	17007	4.702	ug/l	89
87) 1,2-Dichlorobenzene	12.39	146	50216	4.698	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	7292	4.467	ug/l	93
89) 1,2,4-Trichlorobenzene	13.64	180	32927	4.593	ug/l	97
90) Hexachlorobutadiene	13.78	225	17665	4.942	ug/l	99
91) Naphthalene	13.83	128	85275	3.983	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	34355	4.725	ug/l	98

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

