

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019472.D
 Acq On : 19 Nov 2020 17:45
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 11/20/2020 12:25:09 PM

Quant Time: Nov 19 18:07:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 19 17:22:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	49370	30.00	ug/l	0.01
28) 1,4-Difluorobenzene	6.83	114	277684	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	247302	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	107252	32.23	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.43%
60) 4-Bromofluorobenzene	11.12	95	123726	32.76	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	109.20%
63) Toluene-d8	8.70	98	330582	30.28	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	418885	159.993	ug/l 99
3) Chloromethane	1.31	50	453189	183.745	ug/l 98
4) Vinyl Chloride	1.39	62	510081	165.043	ug/l 98
5) Bromomethane	1.62	94	174006	85.845	ug/l 99
6) Chloroethane	1.68	64	111986	59.080	ug/l 99
7) Trichlorofluoromethane	1.89	101	727237	140.097	ug/l 99
8) Diethyl Ether	2.17	74	297256	151.236	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.35	101	407793	159.817	ug/l 99
10) 1,1-Dichloroethene	2.34	96	420654	162.321	ug/l 98
11) Methyl Iodide	2.48	142	578610	219.551	ug/l 97
12) Methyl Acetate	2.75	43	505986	189.607	ug/l 97
13) Acrolein	2.28	56	372773	1301.197	ug/l 100
14) Acrylonitrile	3.12	53	1216801	960.010	ug/l 100
15) Acetone	2.43	58	346528	940.415	ug/l 98
16) Carbon Disulfide	2.54	76	1170537	165.486	ug/l 99
17) Allyl chloride	2.70	41	663188	197.833	ug/l 99
18) Methylene Chloride	2.83	84	491337	163.715	ug/l 99
19) trans-1,2-Dichloroethene	3.14	96	477094	159.710	ug/l 98
20) Diisopropyl ether	3.83	45	1389408	201.085	ug/l 91
21) 1,1-Dichloroethane	3.67	63	827564	170.310	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	550581	159.033	ug/l 98
23) tert-Butyl Alcohol	3.06	59	507349	830.426	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	1490165	179.377	ug/l 99
25) Chloroform	5.18	83	862309	161.630	ug/l 99
26) Cyclohexane	5.54	56	719428	186.842	ug/l # 99
29) 1,1-Dichloropropene	5.76	75	649717	159.718	ug/l 99
30) 2-Butanone	4.64	43	1576634	913.408	ug/l 99
31) 2,2-Dichloropropane	4.55	77	731988	157.279	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	759325	155.609	ug/l 98
33) Carbon Tetrachloride	5.75	117	656365	155.432	ug/l 96
34) Benzene	6.11	78	1981415	162.751	ug/l 99
35) Methacrylonitrile	5.01	41	334898	183.860	ug/l 97
36) 1,2-Dichloroethane	6.16	62	671738	160.334	ug/l 100
37) Trichloroethene	7.18	130	528812	153.407	ug/l 98
38) Methylcyclohexane	7.44	83	796047	171.653	ug/l 98
39) 1,2-Dichloropropane	7.49	63	494281	171.524	ug/l 100
40) Dibromomethane	7.63	93	340146	155.528	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	691393	161.177	ug/l	100
42) Vinyl Acetate	3.79	43	6037731	925.413	ug/l	99
43) Ethyl Acetate	4.80	43	628487	178.529	ug/l	97
44) Isopropyl Acetate	6.42	43	1026420	175.018	ug/l	99
45) 1,4-Dioxane	7.72	88	228500	3665.271	ug/l	95
46) Methyl methacrylate	7.75	41	506574	182.256	ug/l	98
47) n-amyl Acetate	10.88	43	915535	193.757	ug/l	96
48) t-1,3-Dichloropropene	9.02	75	771100	161.670	ug/l	99
49) cis-1,3-Dichloropropene	8.41	75	836517	163.866	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	488423	152.446	ug/l	95
51) Ethyl methacrylate	9.16	69	774921	168.837	ug/l	98
52) 1,3-Dichloropropane	9.35	76	819783	157.227	ug/l	99
53) Dibromochloromethane	9.57	129	529401	152.086	ug/l	98
54) 1,2-Dibromoethane	9.65	107	515908	150.246	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	2027905	835.864	ug/l	99
56) Bromoform	10.84	173	395438	162.730	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	3021816	906.825	ug/l	98
59) 2-Hexanone	9.48	43	2334974	936.657	ug/l	99
61) Tetrachloroethene	9.32	164	459143	148.841	ug/l	98
62) Toluene	8.76	91	2107155	156.855	ug/l	100
64) Chlorobenzene	10.12	112	1267384	151.452	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	486643	159.782	ug/l	99
66) Ethyl Benzene	10.23	91	2317518	156.985	ug/l	97
67) m/p-Xylenes	10.34	106	1731099	308.003	ug/l	100
68) o-Xylene	10.68	106	835763	155.924	ug/l	100
69) Styrene	10.70	104	1462051	161.390	ug/l	99
70) Isopropylbenzene	11.00	105	2258481	156.028	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	772322	179.638	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	673473m	175.053	ug/l	
73) Bromobenzene	11.24	156	561717	158.587	ug/l	99
74) n-propylbenzene	11.34	91	2618451	159.678	ug/l	100
75) 2-Chlorotoluene	11.41	91	1548099	164.180	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	1932026	163.570	ug/l	98
77) t-1,4-Dichloro-2-butene	11.06	75	271806	184.639	ug/l	92
78) 4-Chlorotoluene	11.49	91	1841327	166.759	ug/l	99
79) tert-butylbenzene	11.76	119	1884168	163.388	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	1928024	164.213	ug/l	100
81) sec-Butylbenzene	11.93	105	2218104	161.362	ug/l	98
82) p-Isopropyltoluene	12.05	119	2055434	162.953	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	1026387	160.755	ug/l	97
84) 1,4-Dichlorobenzene	12.08	146	1057986	163.289	ug/l	98
85) n-Butylbenzene	12.37	91	1935784	171.742	ug/l	99
86) Hexachloroethane	12.58	117	373182	189.155	ug/l	100
87) 1,2-Dichlorobenzene	12.38	146	1027039	167.101	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	176821	186.077	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	746113	172.557	ug/l	100
90) Hexachlorobutadiene	13.76	225	318566	168.857	ug/l	97
91) Naphthalene	13.82	128	2394778	170.038	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	726294	172.842	ug/l	97

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

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