

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042619\
 Data File : VN055253.D
 Acq On : 25 Apr 2019 19:15
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMdadoda
 4/26/2019 10:52:51 AM

Quant Time: Apr 26 05:18:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N042619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 26 04:33:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	69956	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	387581	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	345555	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	164912	30.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.00%
60) 4-Bromofluorobenzene	12.40	95	164659	30.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.33%
63) Toluene-d8	10.09	98	476671	29.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	358859	89.372	ug/l 97
3) Chloromethane	2.06	50	497361	90.536	ug/l 94
4) Vinyl Chloride	2.18	62	411522	87.295	ug/l 99
5) Bromomethane	2.55	94	218260	80.204	ug/l 100
6) Chloroethane	2.69	64	226521	85.958	ug/l 99
7) Trichlorofluoromethane	3.01	101	604022	98.182	ug/l 95
8) Diethyl Ether	3.41	74	256995	123.798	ug/l 91
9) 1,1,2-Trichlorotrifluoroet	3.76	101	389640	111.945	ug/l 99
10) 1,1-Dichloroethene	3.73	96	363719	112.656	ug/l 100
11) Methyl Iodide	3.95	142	587375	118.961	ug/l 98
12) Methyl Acetate	4.33	43	532275	127.139	ug/l 96
13) Acrolein	3.61	56	111378	353.276	ug/l 94
14) Acrylonitrile	4.99	53	976388	586.554	ug/l 100
15) Acetone	3.82	58	225140	566.985	ug/l 98
16) Carbon Disulfide	4.05	76	1013602	97.399	ug/l 98
17) Allyl chloride	4.32	41	817309	106.331	ug/l 99
18) Methylene Chloride	4.55	84	439487	94.799	ug/l 94
19) trans-1,2-Dichloroethene	5.04	96	390644	96.102	ug/l 95
20) Diisopropyl ether	5.96	45	1619623	102.243	ug/l 99
21) 1,1-Dichloroethane	5.85	63	832075	99.418	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	460347	97.952	ug/l 97
23) tert-Butyl Alcohol	4.79	59	201192	721.637	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	1211039	111.780	ug/l 100
25) Chloroform	7.37	83	788942	98.898	ug/l 98
26) Cyclohexane	7.65	56	730843	95.883	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	595485	97.866	ug/l 99
30) 2-Butanone	6.84	43	1231408	581.248	ug/l 100
31) 2,2-Dichloropropane	6.83	77	557818	98.361	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	654658	100.283	ug/l 100
33) Carbon Tetrachloride	7.78	117	553134	98.861	ug/l 98
34) Benzene	8.04	78	1766181	97.416	ug/l # 90
35) Methacrylonitrile	7.17	41	272640	106.814	ug/l 98
36) 1,2-Dichloroethane	8.13	62	616040	98.493	ug/l 100
37) Trichloroethene	8.84	130	437183	95.159	ug/l 97
38) Methylcyclohexane	9.08	83	636754	91.903	ug/l 97
39) 1,2-Dichloropropane	9.12	63	501230	99.093	ug/l 99
40) Dibromomethane	9.21	93	286703	99.716	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	603185	102.298	ug/l	95
42) Vinyl Acetate	5.90	43	5914068	557.185	ug/l	99
43) Ethyl Acetate	6.93	43	512440	115.549	ug/l	94
44) Isopropyl Acetate	8.17	43	920287	120.662	ug/l	95
45) 1,4-Dioxane	9.20	88	100627	2441.729	ug/l	98
46) Methyl methacrylate	9.20	41	455855	118.302	ug/l	99
47) n-amyl Acetate	12.07	43	737204	134.859	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	630269	113.722	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	710767	105.800	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	396861	101.357	ug/l	98
51) Ethyl methacrylate	10.43	69	571762	119.151	ug/l	99
52) 1,3-Dichloropropane	10.71	76	709475	103.658	ug/l	99
53) Dibromochloromethane	10.90	129	436898	108.338	ug/l	99
54) 1,2-Dibromoethane	11.01	107	395209	106.677	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	959017	517.970	ug/l	99
56) Bromoform	12.13	173	293057	113.508	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	2642806	610.142	ug/l	99
59) 2-Hexanone	10.75	43	1696572	620.679	ug/l	98
61) Tetrachloroethene	10.63	164	410390	90.469	ug/l	98
62) Toluene	10.16	91	1822994	94.715	ug/l	97
64) Chlorobenzene	11.43	112	1121881	97.111	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	414006	99.363	ug/l	98
66) Ethyl Benzene	11.51	91	2008267	97.650	ug/l	100
67) m/p-Xylenes	11.62	106	1476846	193.572	ug/l	98
68) o-Xylene	11.95	106	734470	96.698	ug/l	95
69) Styrene	11.96	104	1180768	100.889	ug/l	100
70) Isopropylbenzene	12.25	105	1940950	96.258	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	530454	110.569	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	444809m	112.427	ug/l	
73) Bromobenzene	12.53	156	470957	98.947	ug/l	99
74) n-propylbenzene	12.59	91	2226055	99.104	ug/l	100
75) 2-Chlorotoluene	12.67	91	1344584	98.753	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	1608271	98.911	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	137098	134.202	ug/l	89
78) 4-Chlorotoluene	12.77	91	1340768	103.233	ug/l	99
79) tert-butylbenzene	12.99	119	1375006	97.497	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	1612668	100.544	ug/l	100
81) sec-Butylbenzene	13.17	105	1846258	98.448	ug/l	99
82) p-Isopropyltoluene	13.29	119	1569582	99.746	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	812749	103.041	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	801637	106.913	ug/l	100
85) n-Butylbenzene	13.61	91	1342774	108.359	ug/l	100
86) Hexachloroethane	13.87	117	271395	106.078	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	800683	103.059	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	84180	130.491	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	382157	112.671	ug/l	99
90) Hexachlorobutadiene	15.01	225	256300	101.785	ug/l	99
91) Naphthalene	15.13	128	880526	121.652	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	376426	110.248	ug/l	97

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

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