

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122818\
 Data File : VN053215.D
 Acq On : 28 Dec 2018 10:15
 Operator : MD\SY
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 9:48:16 AM

Quant Time: Dec 28 10:35:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 10:13:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	169588	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	978285	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	898403	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	318271	29.43	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.10%
60) 4-Bromofluorobenzene	12.40	95	422309	30.91	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.03%
63) Toluene-d8	10.09	98	1174664	28.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	1681866	148.558	ug/l 99
3) Chloromethane	2.06	50	1979445	149.077	ug/l 100
4) Vinyl Chloride	2.19	62	1898263	144.365	ug/l 97
5) Bromomethane	2.56	94	1224916	144.515	ug/l 99
6) Chloroethane	2.70	64	1078100	141.856	ug/l 99
7) Trichlorofluoromethane	3.02	101	2351602	144.930	ug/l 99
8) Diethyl Ether	3.41	74	881843	146.615	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.76	101	1470379	144.063	ug/l 96
10) 1,1-Dichloroethene	3.74	96	1447010	145.574	ug/l 98
11) Methyl Iodide	3.96	142	2266293	158.352	ug/l 99
12) Methyl Acetate	4.32	43	1161055	150.941	ug/l 98
13) Acrolein	3.61	56	713857	783.189	ug/l 100
14) Acrylonitrile	4.99	53	2573911	746.285	ug/l 98
15) Acetone	3.81	58	546033	744.594	ug/l 96
16) Carbon Disulfide	4.06	76	4564313	150.187	ug/l 100
17) Allyl chloride	4.33	41	2307850	148.082	ug/l 97
18) Methylene Chloride	4.55	84	1611455	140.730	ug/l 94
19) trans-1,2-Dichloroethene	5.05	96	1528253	145.456	ug/l 95
20) Diisopropyl ether	5.95	45	4848948	144.606	ug/l 93
21) 1,1-Dichloroethane	5.85	63	2842741	145.846	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	1748302	148.280	ug/l 98
23) tert-Butyl Alcohol	4.77	59	451076	783.543	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	3842202	148.892	ug/l 96
25) Chloroform	7.37	83	2718006	144.886	ug/l 99
26) Cyclohexane	7.66	56	2687221	148.301	ug/l # 98
29) 1,1-Dichloropropene	7.80	75	2217133	149.521	ug/l 99
30) 2-Butanone	6.83	43	2805260	761.020	ug/l 98
31) 2,2-Dichloropropane	6.83	77	2169346	151.527	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	2341369	151.004	ug/l 96
33) Carbon Tetrachloride	7.78	117	2080346	153.861	ug/l 100
34) Benzene	8.04	78	6558313	146.595	ug/l # 90
35) Methacrylonitrile	7.17	41	699511	145.810	ug/l 98
36) 1,2-Dichloroethane	8.13	62	1879063	144.223	ug/l 98
37) Trichloroethene	8.84	130	1784523	147.405	ug/l 95
38) Methylcyclohexane	9.08	83	2614870	151.085	ug/l 97
39) 1,2-Dichloropropane	9.12	63	1731187	148.586	ug/l 97
40) Dibromomethane	9.21	93	968940	146.677	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	2108266	149.092	ug/l	98
42) Vinyl Acetate	5.90	43	15435097	769.176	ug/l	97
43) Ethyl Acetate	6.93	43	1264714	153.999	ug/l #	69
44) Isopropyl Acetate	8.16	43	2350423	153.550	ug/l #	78
45) 1,4-Dioxane	9.20	88	288460	3084.443	ug/l	91
46) Methyl methacrylate	9.20	41	1209262	157.117	ug/l	95
47) n-amyl Acetate	12.07	43	2156115	162.242	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	2275019	159.906	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	2583767	152.784	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	1392607	147.115	ug/l	100
51) Ethyl methacrylate	10.43	69	1932048	159.121	ug/l	93
52) 1,3-Dichloropropane	10.71	76	2415077	148.348	ug/l	100
53) Dibromochloromethane	10.90	129	1629705	154.880	ug/l	97
54) 1,2-Dibromoethane	11.01	107	1450135	153.064	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	5423628	773.885	ug/l	99
56) Bromoform	12.13	173	1164281	163.620	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	6289819	730.996	ug/l	97
59) 2-Hexanone	10.75	43	4361586	735.044	ug/l	96
61) Tetrachloroethene	10.63	164	1849490	136.867	ug/l	97
62) Toluene	10.16	91	7080928	142.222	ug/l	99
64) Chlorobenzene	11.43	112	4541221	146.115	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	1610483	148.116	ug/l	99
66) Ethyl Benzene	11.51	91	7923357	147.869	ug/l	98
67) m/p-Xylenes	11.62	106	5980558	294.954	ug/l	98
68) o-Xylene	11.95	106	2917981	148.766	ug/l	99
69) Styrene	11.97	104	4870739	152.992	ug/l	99
70) Isopropylbenzene	12.25	105	7668329	148.547	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	1608255	147.862	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	1488991m	158.566	ug/l	
73) Bromobenzene	12.53	156	1995846	150.878	ug/l	95
74) n-propylbenzene	12.59	91	8861365	152.429	ug/l	98
75) 2-Chlorotoluene	12.68	91	5171301	149.645	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	6157898	150.839	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	551492	169.570	ug/l	90
78) 4-Chlorotoluene	12.77	91	5340345	152.363	ug/l	99
79) tert-butylbenzene	12.99	119	5329661	149.406	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	6157661	150.406	ug/l	99
81) sec-Butylbenzene	13.17	105	7083926	150.106	ug/l	99
82) p-Isopropyltoluene	13.29	119	6160212	151.301	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	3346890	148.032	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	3285257	149.323	ug/l	99
85) n-Butylbenzene	13.62	91	5101211	154.782	ug/l	98
86) Hexachloroethane	13.88	117	1035854	161.516	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	2995374	141.298	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	235596	152.375	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	1720079	174.709	ug/l	99
90) Hexachlorobutadiene	15.01	225	846934	134.793	ug/l	100
91) Naphthalene	15.13	128	3778577	182.770	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	1530401	174.087	ug/l	98

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

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