

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055724.D
 Acq On : 22 May 2019 17:22
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:30:56 PM

Quant Time: May 23 05:45:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:31:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	56933	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	310340	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	269720	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	111817	25.77	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	85.90%
60) 4-Bromofluorobenzene	12.40	95	124488	29.88	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.60%
63) Toluene-d8	10.09	98	376273	29.55	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	49607	16.609	ug/l 100
3) Chloromethane	2.06	50	72647	17.205	ug/l 100
4) Vinyl Chloride	2.18	62	73674	20.657	ug/l 100
5) Bromomethane	2.55	94	45799	22.535	ug/l 100
6) Chloroethane	2.69	64	43749	21.671	ug/l 100
7) Trichlorofluoromethane	3.01	101	90808	17.875	ug/l 100
8) Diethyl Ether	3.40	74	40170	19.043	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	57973	17.944	ug/l 100
10) 1,1-Dichloroethene	3.73	96	60680	19.703	ug/l 100
11) Methyl Iodide	3.94	142	84510	17.766	ug/l 100
12) Methyl Acetate	4.33	43	73071	16.982	ug/l 100
13) Acrolein	3.60	56	49173	188.593	ug/l 100
14) Acrylonitrile	4.99	53	171087	106.501	ug/l 100
15) Acetone	3.82	58	55235	133.897	ug/l 100
16) Carbon Disulfide	4.04	76	173690	20.363	ug/l 100
17) Allyl chloride	4.32	41	108516	16.768	ug/l 100
18) Methylene Chloride	4.55	84	69443	18.520	ug/l 100
19) trans-1,2-Dichloroethene	5.03	96	65773	19.658	ug/l 100
20) Diisopropyl ether	5.95	45	209888	16.287	ug/l 100
21) 1,1-Dichloroethane	5.85	63	120213	17.623	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	75837	19.444	ug/l 100
23) tert-Butyl Alcohol	4.81	59	74838	167.571	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	206342	20.352	ug/l 100
25) Chloroform	7.37	83	118282	18.293	ug/l 100
26) Cyclohexane	7.65	56	109686	18.198	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	87428	18.169	ug/l 100
30) 2-Butanone	6.84	43	238582	116.074	ug/l 100
31) 2,2-Dichloropropane	6.82	77	104792	22.009	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	104367	19.286	ug/l 100
33) Carbon Tetrachloride	7.77	117	93717	20.354	ug/l 100
34) Benzene	8.04	78	270872	18.723	ug/l 100
35) Methacrylonitrile	7.17	41	42438	19.314	ug/l 100
36) 1,2-Dichloroethane	8.12	62	88885	17.526	ug/l 100
37) Trichloroethene	8.83	130	75389	20.235	ug/l 100
38) Methylcyclohexane	9.08	83	108820	20.470	ug/l 100
39) 1,2-Dichloropropane	9.12	63	72977	17.867	ug/l 100
40) Dibromomethane	9.21	93	46389	19.320	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	96390	19.461	ug/l	100
42) Vinyl Acetate	5.90	43	919026	96.730	ug/l	100
43) Ethyl Acetate	6.93	43	93812	22.126	ug/l #	100
44) Isopropyl Acetate	8.17	43	151147	20.023	ug/l	100
45) 1,4-Dioxane	9.20	88	28509	630.442	ug/l	100
46) Methyl methacrylate	9.20	41	71184	19.979	ug/l	100
47) n-amyl Acetate	12.07	43	125822	22.268	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	104571	20.897	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	115983	20.257	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	68587	20.580	ug/l	100
51) Ethyl methacrylate	10.43	69	109826	23.024	ug/l	100
52) 1,3-Dichloropropane	10.71	76	113928	19.473	ug/l	100
53) Dibromochloromethane	10.90	129	79410	22.273	ug/l	100
54) 1,2-Dibromoethane	11.00	107	70399	21.337	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	209154	136.702	ug/l	100
56) Bromoform	12.13	173	65857	26.606	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	461690	107.880	ug/l	100
59) 2-Hexanone	10.75	43	326778	116.566	ug/l	100
61) Tetrachloroethene	10.63	164	76216	21.662	ug/l	100
62) Toluene	10.16	91	297183	19.622	ug/l	100
64) Chlorobenzene	11.43	112	178805	19.828	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	72401	21.115	ug/l	100
66) Ethyl Benzene	11.51	91	323583	19.918	ug/l	100
67) m/p-Xylenes	11.62	106	246356	41.292	ug/l	100
68) o-Xylene	11.95	106	122596	20.681	ug/l	100
69) Styrene	11.96	104	196535	21.000	ug/l	100
70) Isopropylbenzene	12.25	105	319003	20.449	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	99416	22.434	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	87167m	22.512	ug/l	
73) Bromobenzene	12.53	156	82871	21.793	ug/l	100
74) n-propylbenzene	12.59	91	338316	19.554	ug/l	100
75) 2-Chlorotoluene	12.67	91	210126	19.787	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	264205	20.528	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	32048	28.139	ug/l	100
78) 4-Chlorotoluene	12.77	91	193709	19.241	ug/l	100
79) tert-butylbenzene	12.99	119	234796	21.090	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	259362	20.879	ug/l	100
81) sec-Butylbenzene	13.17	105	293975	20.170	ug/l	100
82) p-Isopropyltoluene	13.29	119	268349	21.685	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	128184	20.877	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	119554	20.643	ug/l	100
85) n-Butylbenzene	13.61	91	198198	20.805	ug/l	100
86) Hexachloroethane	13.87	117	53175	24.149	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	131094	21.321	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18446	26.447	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	60839	23.323	ug/l	100
90) Hexachlorobutadiene	15.01	225	53504	24.853	ug/l	100
91) Naphthalene	15.13	128	170353	26.711	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	68115	24.816	ug/l	100

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

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