

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051420\
 Data File : VN061397.D
 Acq On : 14 May 2020 16:21
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051420

Manual Integrations
 APPROVED

MMDadoda
 5/15/2020 2:10:48 PM

Quant Time: May 15 05:46:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 14 16:04:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	22242	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	129665	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	116550	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	58653	29.45	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.17%
60) 4-Bromofluorobenzene	12.37	95	58663	29.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.27%
63) Toluene-d8	10.06	98	164861	30.55	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	22879	22.592	ug/l 99
3) Chloromethane	2.03	50	36585	19.758	ug/l 96
4) Vinyl Chloride	2.16	62	47105	18.978	ug/l 97
5) Bromomethane	2.54	94	24199	19.194	ug/l 96
6) Chloroethane	2.68	64	31037	18.481	ug/l 99
7) Trichlorofluoromethane	2.98	101	51301	19.312	ug/l 99
8) Diethyl Ether	3.37	74	17715	20.967	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.72	101	24271	21.389	ug/l 97
10) 1,1-Dichloroethene	3.70	96	25378	21.242	ug/l 99
11) Methyl Iodide	3.91	142	28292	21.881	ug/l 99
12) Methyl Acetate	4.28	43	28343	19.534	ug/l 98
13) Acrolein	3.56	56	24377	99.782	ug/l 98
14) Acrylonitrile	4.93	53	66522	97.673	ug/l 99
15) Acetone	3.77	58	19005	116.203	ug/l 94
16) Carbon Disulfide	4.01	76	80623	24.006	ug/l 100
17) Allyl chloride	4.27	41	51146	21.269	ug/l 98
18) Methylene Chloride	4.50	84	28997	20.112	ug/l 98
19) trans-1,2-Dichloroethene	4.98	96	29164	20.511	ug/l 91
20) Diisopropyl ether	5.90	45	105823	18.904	ug/l 94
21) 1,1-Dichloroethane	5.79	63	56997	19.498	ug/l 99
22) cis-1,2-Dichloroethene	6.78	96	32093	19.250	ug/l 95
23) tert-Butyl Alcohol	4.72	59	22095	101.207	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	95666	19.731	ug/l 98
25) Chloroform	7.33	83	55123	19.453	ug/l 94
26) Cyclohexane	7.61	56	54302	19.454	ug/l # 98
29) 1,1-Dichloropropene	7.75	75	44221	19.434	ug/l 99
30) 2-Butanone	6.78	43	94727	98.416	ug/l 99
31) 2,2-Dichloropropane	6.77	77	52471	19.739	ug/l 96
32) 1,1,1-Trichloroethane	7.53	97	50079	19.671	ug/l 99
33) Carbon Tetrachloride	7.73	117	38151	19.523	ug/l 99
34) Benzene	8.00	78	125038	19.424	ug/l 99
35) Methacrylonitrile	7.12	41	23303m	24.138	ug/l
36) 1,2-Dichloroethane	8.08	62	48340	19.562	ug/l 100
37) Trichloroethene	8.80	130	31574	19.920	ug/l 98
38) Methylcyclohexane	9.05	83	53598	19.622	ug/l 97
39) 1,2-Dichloropropane	9.08	63	33225	18.774	ug/l 98
40) Dibromomethane	9.17	93	21211	19.405	ug/l 92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	45991	19.395	ug/l	98
42) Vinyl Acetate	5.84	43	434633	95.087	ug/l	99
43) Ethyl Acetate	6.88	43	39391	19.160	ug/l #	91
44) Isopropyl Acetate	8.12	43	72972	18.281	ug/l #	90
45) 1,4-Dioxane	9.16	88	7736	491.084	ug/l	97
46) Methyl methacrylate	9.16	41	34064	18.147	ug/l	96
47) n-amyl Acetate	12.04	43	65438	18.379	ug/l	97
48) t-1,3-Dichloropropene	10.35	75	53133	18.988	ug/l	97
49) cis-1,3-Dichloropropene	9.81	75	55901	18.886	ug/l	94
50) 1,1,2-Trichloroethane	10.53	97	28143	18.621	ug/l	96
51) Ethyl methacrylate	10.40	69	48618	18.672	ug/l	95
52) 1,3-Dichloropropane	10.68	76	53063	19.228	ug/l	100
53) Dibromochloromethane	10.87	129	30818	18.610	ug/l	100
54) 1,2-Dibromoethane	10.98	107	29249	18.756	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	99694	86.513	ug/l	99
56) Bromoform	12.10	173	19118	18.357	ug/l #	98
58) 4-Methyl-2-Pentanone	9.95	43	201888	95.058	ug/l	99
59) 2-Hexanone	10.72	43	147570	98.231	ug/l	99
61) Tetrachloroethene	10.60	164	28711	19.699	ug/l	96
62) Toluene	10.12	91	131848	19.510	ug/l	98
64) Chlorobenzene	11.41	112	78109	19.528	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	28242	19.323	ug/l	99
66) Ethyl Benzene	11.48	91	149285	19.249	ug/l	99
67) m/p-Xylenes	11.59	106	110231	38.489	ug/l	99
68) o-Xylene	11.92	106	53222	19.472	ug/l	99
69) Styrene	11.94	104	90233	19.185	ug/l	98
70) Isopropylbenzene	12.22	105	142875	19.292	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	39143	19.132	ug/l	97
72) 1,2,3-Trichloropropane	12.53	75	39262m	20.120	ug/l	
73) Bromobenzene	12.50	156	29530	19.197	ug/l	92
74) n-propylbenzene	12.56	91	169646	19.266	ug/l	100
75) 2-Chlorotoluene	12.65	91	98925	19.591	ug/l	97
76) 1,3,5-Trimethylbenzene	12.71	105	119555	19.237	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	15197	18.712	ug/l	96
78) 4-Chlorotoluene	12.75	91	103675	19.607	ug/l	98
79) tert-butylbenzene	12.97	119	98143	19.010	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	120765	19.467	ug/l	99
81) sec-Butylbenzene	13.15	105	139175	19.568	ug/l	100
82) p-Isopropyltoluene	13.27	119	123827	19.334	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	55235	19.320	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	55978	19.784	ug/l	96
85) n-Butylbenzene	13.59	91	119943	20.229	ug/l	98
86) Hexachloroethane	13.85	117	18246	20.437	ug/l	81
87) 1,2-Dichlorobenzene	13.63	146	52713	19.437	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.25	75	8557	19.624	ug/l	93
89) 1,2,4-Trichlorobenzene	14.89	180	33387	21.428	ug/l	99
90) Hexachlorobutadiene	14.99	225	14530	22.892	ug/l	99
91) Naphthalene	15.10	128	107796	21.996	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	31787	21.005	ug/l	99

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

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