

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090319\
 Data File : VN057661.D
 Acq On : 3 Sep 2019 13:41
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/5/2019 3:22:43 PM

Quant Time: Sep 04 03:30:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 02:08:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	44249	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	261472	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	217479	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	136237	28.96	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.53%
60) 4-Bromofluorobenzene	12.40	95	95647	25.74	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.80%
63) Toluene-d8	10.09	98	327751	31.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	38681	12.134 ug/l	98
3) Chloromethane	2.05	50	41709	12.406 ug/l	98
4) Vinyl Chloride	2.18	62	33120	12.047 ug/l #	88
5) Bromomethane	2.55	94	24238	13.791 ug/l	97
6) Chloroethane	2.70	64	25048	12.477 ug/l	96
7) Trichlorofluoromethane	3.02	101	59671	11.333 ug/l	99
8) Diethyl Ether	3.40	74	20507	11.841 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	32344	11.820 ug/l	98
10) 1,1-Dichloroethene	3.73	96	30442	12.195 ug/l	88
11) Methyl Iodide	3.95	142	38983	11.277 ug/l	97
12) Methyl Acetate	4.31	43	45473	12.201 ug/l	99
13) Acrolein	3.60	56	9803	46.354 ug/l #	80
14) Acrylonitrile	4.97	53	79526	58.626 ug/l	94
15) Acetone	3.80	58	22821	59.977 ug/l	97
16) Carbon Disulfide	4.04	76	75350	12.016 ug/l	96
17) Allyl chloride	4.31	41	65447	12.275 ug/l	92
18) Methylene Chloride	4.54	84	39759	12.710 ug/l	96
19) trans-1,2-Dichloroethene	5.03	96	31286	11.848 ug/l	95
20) Diisopropyl ether	5.93	45	135180	11.766 ug/l	94
21) 1,1-Dichloroethane	5.83	63	70406	11.890 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	40049	12.417 ug/l #	88
23) tert-Butyl Alcohol	4.75	59	23534	47.713 ug/l #	100
24) Methyl tert-Butyl Ether	5.02	73	114290	11.522 ug/l #	79
25) Chloroform	7.36	83	71709	11.682 ug/l	99
26) Cyclohexane	7.64	56	60190	11.937 ug/l #	97
29) 1,1-Dichloropropene	7.78	75	51245	12.273 ug/l	98
30) 2-Butanone	6.82	43	113605	57.598 ug/l #	96
31) 2,2-Dichloropropane	6.81	77	60738	11.754 ug/l #	77
32) 1,1,1-Trichloroethane	7.56	97	63043	12.196 ug/l	95
33) Carbon Tetrachloride	7.76	117	48529	11.561 ug/l	99
34) Benzene	8.03	78	146451	12.211 ug/l #	91
35) Methacrylonitrile	7.16	41	20192m	11.175 ug/l	
36) 1,2-Dichloroethane	8.11	62	64610	12.088 ug/l #	100
37) Trichloroethene	8.82	130	34408	12.082 ug/l	99
38) Methylcyclohexane	9.07	83	57469	12.404 ug/l	98
39) 1,2-Dichloropropane	9.11	63	41222	12.569 ug/l	99
40) Dibromomethane	9.20	93	25212	11.859 ug/l	97

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

41) Bromodichloromethane	9.40	83	51487	11.205	ug/l #	96
42) Vinyl Acetate	5.88	43	528960	61.016	ug/l	100
43) Ethyl Acetate	6.91	43	52998m	13.049	ug/l	
44) Isopropyl Acetate	8.15	43	85151	11.214	ug/l	95
45) 1,4-Dioxane	9.19	88	9346	191.736	ug/l #	72
46) Methyl methacrylate	9.19	41	39913	10.833	ug/l	98
47) n-amyl Acetate	12.07	43	53238	9.041	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	50904	10.561	ug/l #	89
49) cis-1,3-Dichloropropene	9.83	75	58091	11.296	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	33794	11.786	ug/l	95
51) Ethyl methacrylate	10.43	69	49874	10.670	ug/l	99
52) 1,3-Dichloropropane	10.70	76	59947	11.746	ug/l	100
53) Dibromochloromethane	10.90	129	30608	10.228	ug/l	98
54) 1,2-Dibromoethane	11.00	107	31723	11.068	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	44759	30.307	ug/l	99
56) Bromoform	12.13	173	16657	8.976	ug/l #	95
58) 4-Methyl-2-Pentanone	9.98	43	234314	60.965	ug/l	99
59) 2-Hexanone	10.75	43	148103	54.455	ug/l	98
61) Tetrachloroethene	10.63	164	32144	12.872	ug/l	99
62) Toluene	10.15	91	152673	12.503	ug/l	98
64) Chlorobenzene	11.43	112	84698	11.813	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	30325	11.545	ug/l	99
66) Ethyl Benzene	11.51	91	163873	12.006	ug/l	97
67) m/p-Xylenes	11.62	106	111924	23.381	ug/l	97
68) o-Xylene	11.95	106	53443	11.212	ug/l	95
69) Styrene	11.96	104	78480	10.272	ug/l	100
70) Isopropylbenzene	12.25	105	150150	11.485	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	41424	12.042	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	36790m	11.372	ug/l	
73) Bromobenzene	12.53	156	26752	9.656	ug/l	90
74) n-propylbenzene	12.59	91	153947	10.637	ug/l	99
75) 2-Chlorotoluene	12.68	91	98957	10.922	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	121224	11.169	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	8831	8.942	ug/l	96
78) 4-Chlorotoluene	12.77	91	84353	9.799	ug/l	99
79) tert-butylbenzene	12.99	119	104098	11.167	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	111305	10.914	ug/l	99
81) sec-Butylbenzene	13.17	105	128138	10.667	ug/l	99
82) p-Isopropyltoluene	13.29	119	106674	10.455	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	37586	9.058	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	33179	8.470	ug/l	97
85) n-Butylbenzene	13.62	91	83601	9.322	ug/l	99
86) Hexachloroethane	13.88	117	18992	10.287	ug/l	96
87) 1,2-Dichlorobenzene	13.66	146	36160	9.446	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	3891	7.716	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	7164	5.401	ug/l	98
90) Hexachlorobutadiene	15.01	225	16645	11.314	ug/l	98
91) Naphthalene	15.13	128	17613	5.113	ug/l	99
92) 1,2,3-Trichlorobenzene	15.29	180	6775	5.257	ug/l	97

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

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