

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083118\
 Data File : VN050996.D
 Acq On : 31 Aug 2018 18:32
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/4/2018 12:28:13 PM

Quant Time: Sep 01 01:41:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	118244	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	644081	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	544348	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	222996	29.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.50%
60) 4-Bromofluorobenzene	12.40	95	238884	29.51	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.37%
63) Toluene-d8	10.09	98	787264	31.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.37%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	142340	19.38	ug/l	100
3) Chloromethane	2.06	50	165020	19.03	ug/l	98
4) Vinyl Chloride	2.18	62	166617	19.45	ug/l	100
5) Bromomethane	2.57	94	94358	18.07	ug/l	97
6) Chloroethane	2.70	64	96610	19.12	ug/l	95
7) Trichlorofluoromethane	3.02	101	221893	19.54	ug/l	100
8) Diethyl Ether	3.41	74	73958	18.47	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	136674	19.43	ug/l	98
10) 1,1-Dichloroethene	3.74	96	122059	19.10	ug/l	99
11) Methyl Iodide	3.96	142	99868	16.75	ug/l	99
12) Methyl Acetate	4.33	43	143629	19.44	ug/l	97
13) Acrolein	3.61	56	7695	47.04	ug/l	99
14) Acrylonitrile	4.99	53	210119	84.12	ug/l	97
15) Acetone	3.82	58	52728	82.49	ug/l	94
16) Carbon Disulfide	4.05	76	350096	18.22	ug/l	100
17) Allyl chloride	4.33	41	189365	18.84	ug/l	99
18) Methylene Chloride	4.55	84	148471	19.80	ug/l	98
19) trans-1,2-Dichloroethene	5.05	96	131281	19.28	ug/l	98
20) Diisopropyl ether	5.96	45	412300	19.76	ug/l	98
21) 1,1-Dichloroethane	5.85	63	252560	19.74	ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	147912	19.24	ug/l	97
23) tert-Butyl Alcohol	4.79	59	40106	75.50	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	324494	18.57	ug/l	99
25) Chloroform	7.37	83	255530	20.01	ug/l	99
26) Cyclohexane	7.66	56	198036	18.68	ug/l #	99
29) 1,1-Dichloropropene	7.80	75	184635	19.15	ug/l	99
30) 2-Butanone	6.84	43	225556	76.04	ug/l	100
31) 2,2-Dichloropropane	6.83	77	193769	20.65	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	215193	19.68	ug/l	99
33) Carbon Tetrachloride	7.78	117	187074	19.00	ug/l	96
34) Benzene	8.04	78	580670	19.47	ug/l	99
35) Methacrylonitrile	7.18	41	49525	15.24	ug/l	98
36) 1,2-Dichloroethane	8.13	62	171663	19.03	ug/l	99
37) Trichloroethene	8.84	130	149695	19.20	ug/l	97
38) Methylcyclohexane	9.08	83	189137	18.26	ug/l	99
39) 1,2-Dichloropropane	9.12	63	153661	19.72	ug/l	96
40) Dibromomethane	9.21	93	87663	18.68	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	189626	19.17	ug/l	99
42) Vinyl Acetate	5.90	43	1182462	86.54	ug/l	100
43) Ethyl Acetate	6.93	43	99009	16.29	ug/l	98
44) Isopropyl Acetate	8.17	43	193383	18.03	ug/l	97
45) 1,4-Dioxane	9.20	88	24424	306.63	ug/l	96
46) Methyl methacrylate	9.20	41	89024	16.58	ug/l	98
47) n-amyl Acetate	12.07	43	127003	14.73	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	170108	17.54	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	212639	19.09	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	124620	18.28	ug/l	96
51) Ethyl methacrylate	10.43	69	134771	16.15	ug/l	98
52) 1,3-Dichloropropane	10.71	76	205493	18.19	ug/l	99
53) Dibromochloromethane	10.90	129	139967	18.05	ug/l	100
54) 1,2-Dibromoethane	11.01	107	119299	17.69	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	278053	80.10	ug/l	99
56) Bromoform	12.13	173	90777	16.46	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	518550	83.26	ug/l	100
59) 2-Hexanone	10.75	43	315256	77.44	ug/l	99
61) Tetrachloroethene	10.63	164	134684	19.86	ug/l	96
62) Toluene	10.16	91	606620	19.98	ug/l	100
64) Chlorobenzene	11.44	112	366550	19.48	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	143813	20.24	ug/l	99
66) Ethyl Benzene	11.51	91	598125	19.01	ug/l	99
67) m/p-Xylenes	11.62	106	475159	39.26	ug/l	99
68) o-Xylene	11.95	106	223960	19.37	ug/l	98
69) Styrene	11.97	104	346394	18.84	ug/l	99
70) Isopropylbenzene	12.25	105	596569	19.41	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	149627	17.98	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	126241m	17.59	ug/l	
73) Bromobenzene	12.53	156	151823	18.78	ug/l	99
74) n-propylbenzene	12.59	91	658150	18.94	ug/l	99
75) 2-Chlorotoluene	12.68	91	413761	19.60	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	488617	19.46	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	31434	15.37	ug/l	97
78) 4-Chlorotoluene	12.77	91	391238	18.83	ug/l	100
79) tert-butylbenzene	12.99	119	423239	19.41	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	485031	19.37	ug/l	100
81) sec-Butylbenzene	13.17	105	546036	19.14	ug/l	99
82) p-Isopropyltoluene	13.29	119	465495	18.90	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	250896	18.35	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	227082	17.53	ug/l	97
85) n-Butylbenzene	13.62	91	326976	17.40	ug/l	100
86) Hexachloroethane	13.87	117	86301	18.25	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	246636	18.33	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18137	15.58	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	86465	14.43	ug/l	99
90) Hexachlorobutadiene	15.01	225	78787	19.36	ug/l	99
91) Naphthalene	15.13	128	161096	17.18	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	91138	15.16	ug/l	100

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

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