

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051616.D
 Acq On : 28 Sep 2018 14:57
 Operator : MD\SY
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092818

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:41 PM

Quant Time: Sep 29 02:25:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 01:07:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	106675	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	588498	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	505787	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	224125	30.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.57%
60) 4-Bromofluorobenzene	12.40	95	233568	30.03	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.10%
63) Toluene-d8	10.09	98	733301	30.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	204432	21.837 ug/l	96
3) Chloromethane	2.06	50	215320	20.553 ug/l	100
4) Vinyl Chloride	2.18	62	231906	22.565 ug/l	98
5) Bromomethane	2.57	94	96537	18.084 ug/l	95
6) Chloroethane	2.70	64	110081	21.351 ug/l	99
7) Trichlorofluoromethane	3.01	101	259534	20.669 ug/l	99
8) Diethyl Ether	3.41	74	77132	19.557 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	151595	21.358 ug/l	97
10) 1,1-Dichloroethene	3.74	96	129740	20.142 ug/l	98
11) Methyl Iodide	3.95	142	166839	20.122 ug/l	98
12) Methyl Acetate	4.33	43	109818	19.318 ug/l	98
13) Acrolein	3.61	56	53286	84.844 ug/l	98
14) Acrylonitrile	4.99	53	218830	96.121 ug/l	98
15) Acetone	3.82	58	60428	101.234 ug/l	93
16) Carbon Disulfide	4.05	76	404317	19.479 ug/l	100
17) Allyl chloride	4.32	41	224065	19.446 ug/l	98
18) Methylene Chloride	4.55	84	149578	20.199 ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	135829	19.865 ug/l	97
20) Diisopropyl ether	5.95	45	471468	20.626 ug/l	98
21) 1,1-Dichloroethane	5.85	63	274184	20.239 ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	146204	19.579 ug/l	95
23) tert-Butyl Alcohol	4.78	59	41579	95.479 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	333755	19.716 ug/l	99
25) Chloroform	7.37	83	262086	20.233 ug/l	98
26) Cyclohexane	7.65	56	235741	20.108 ug/l	99
29) 1,1-Dichloropropene	7.79	75	201127	20.042 ug/l	99
30) 2-Butanone	6.84	43	265231	97.112 ug/l	99
31) 2,2-Dichloropropane	6.83	77	220783	20.385 ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	227329	20.162 ug/l	100
33) Carbon Tetrachloride	7.77	117	204364	20.166 ug/l	99
34) Benzene	8.04	78	605735	20.346 ug/l	99
35) Methacrylonitrile	7.18	41	51694m	16.835 ug/l	
36) 1,2-Dichloroethane	8.12	62	186801	19.684 ug/l	100
37) Trichloroethene	8.83	130	154026	20.150 ug/l	98
38) Methylcyclohexane	9.08	83	226670	19.575 ug/l	99
39) 1,2-Dichloropropane	9.12	63	166275	20.382 ug/l	98
40) Dibromomethane	9.21	93	91284	20.143 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	197621	19.978	ug/l	100
42) Vinyl Acetate	5.90	43	1468544	96.583	ug/l	100
43) Ethyl Acetate	6.93	43	117665	20.353	ug/l #	84
44) Isopropyl Acetate	8.16	43	215064	19.000	ug/l #	79
45) 1,4-Dioxane	9.20	88	25120	410.240	ug/l	96
46) Methyl methacrylate	9.20	41	100964	19.174	ug/l	97
47) n-amyl Acetate	12.07	43	153680	18.145	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	185951	18.834	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	225903	19.571	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	127558	19.918	ug/l	97
51) Ethyl methacrylate	10.43	69	144451	18.590	ug/l	99
52) 1,3-Dichloropropane	10.71	76	216922	19.755	ug/l	100
53) Dibromochloromethane	10.90	129	142945	19.598	ug/l	97
54) 1,2-Dibromoethane	11.00	107	120599	19.625	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	363205	94.569	ug/l	99
56) Bromoform	12.13	173	90841	18.769	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	582100	101.367	ug/l	99
59) 2-Hexanone	10.75	43	375084	99.285	ug/l	99
61) Tetrachloroethene	10.63	164	149050	20.814	ug/l	98
62) Toluene	10.16	91	625488	20.168	ug/l	100
64) Chlorobenzene	11.43	112	372395	19.860	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	144683	20.207	ug/l	99
66) Ethyl Benzene	11.51	91	624841	19.686	ug/l	99
67) m/p-Xylenes	11.62	106	498520	40.752	ug/l	98
68) o-Xylene	11.95	106	234253	20.060	ug/l	98
69) Styrene	11.96	104	362003	19.750	ug/l	100
70) Isopropylbenzene	12.25	105	635037	20.387	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	148839	19.750	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	134140m	20.819	ug/l	
73) Bromobenzene	12.53	156	154842	19.975	ug/l	95
74) n-propylbenzene	12.59	91	728914	20.101	ug/l	100
75) 2-Chlorotoluene	12.67	91	441287	20.379	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	531867	20.434	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	38288	18.762	ug/l	98
78) 4-Chlorotoluene	12.77	91	432012	20.197	ug/l	98
79) tert-butylbenzene	12.99	119	453853	20.127	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	536283	20.628	ug/l	100
81) sec-Butylbenzene	13.17	105	638208	20.489	ug/l	99
82) p-Isopropyltoluene	13.29	119	543191	20.403	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	270728	20.043	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	249123	19.620	ug/l	100
85) n-Butylbenzene	13.62	91	424533	19.427	ug/l	100
86) Hexachloroethane	13.87	117	105756	19.861	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	262234	19.846	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21101	19.210	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	105023	16.981	ug/l	98
90) Hexachlorobutadiene	15.01	225	108138	21.447	ug/l	95
91) Naphthalene	15.13	128	173517	17.821	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	111288	17.892	ug/l	100

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

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