

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
 Data File : VN050972.D
 Acq On : 30 Aug 2018 19:34
 Operator : MD\SY
 Sample : VN0830WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0830WBS02

Manual Integrations
 APPROVED

MMDadoda
 8/31/2018 11:32:23 AM

Quant Time: Aug 31 06:35:14 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	118943	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	622082	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	529718	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	226406	29.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.43%
60) 4-Bromofluorobenzene	12.40	95	231746	29.42	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.07%
63) Toluene-d8	10.09	98	773352	31.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.37%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	142110	19.24	ug/l	100
3) Chloromethane	2.06	50	154697	17.74	ug/l	98
4) Vinyl Chloride	2.18	62	157426	18.27	ug/l	99
5) Bromomethane	2.56	94	89938	17.12	ug/l	99
6) Chloroethane	2.70	64	94395	18.57	ug/l	97
7) Trichlorofluoromethane	3.01	101	223437	19.56	ug/l	99
8) Diethyl Ether	3.41	74	76669	19.03	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	137467	19.43	ug/l	99
10) 1,1-Dichloroethene	3.73	96	119852	18.65	ug/l	99
11) Methyl Iodide	3.95	142	93991	15.67	ug/l	100
12) Methyl Acetate	4.33	43	154986	20.85	ug/l	99
13) Acrolein	3.61	56	8566	52.05	ug/l	96
14) Acrylonitrile	5.00	53	222276	88.46	ug/l	96
15) Acetone	3.82	58	54270	84.40	ug/l	92
16) Carbon Disulfide	4.05	76	346729	17.94	ug/l	98
17) Allyl chloride	4.33	41	182269	18.02	ug/l	99
18) Methylene Chloride	4.55	84	141902	18.81	ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	126744	18.51	ug/l	99
20) Diisopropyl ether	5.96	45	405267	19.31	ug/l	99
21) 1,1-Dichloroethane	5.85	63	247193	19.21	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	143570	18.56	ug/l	99
23) tert-Butyl Alcohol	4.80	59	47437	88.77	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	326192	18.56	ug/l	98
25) Chloroform	7.38	83	250229	19.48	ug/l	99
26) Cyclohexane	7.66	56	189795	17.80	ug/l #	99
29) 1,1-Dichloropropene	7.80	75	176036	18.90	ug/l	99
30) 2-Butanone	6.84	43	251229	87.69	ug/l	99
31) 2,2-Dichloropropane	6.83	77	179792	19.84	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	209101	19.80	ug/l	99
33) Carbon Tetrachloride	7.78	117	184761	19.43	ug/l	98
34) Benzene	8.04	78	554978	19.26	ug/l	98
35) Methacrylonitrile	7.18	41	61128	19.47	ug/l	96
36) 1,2-Dichloroethane	8.13	62	171722	19.71	ug/l	99
37) Trichloroethene	8.84	130	145374	19.31	ug/l	98
38) Methylcyclohexane	9.08	83	178541	17.85	ug/l	100
39) 1,2-Dichloropropane	9.12	63	149126	19.82	ug/l	99
40) Dibromomethane	9.21	93	87291	19.26	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	184439	19.30	ug/l	98
42) Vinyl Acetate	5.90	43	1215346	92.10	ug/l	100
43) Ethyl Acetate	6.94	43	108735	18.53	ug/l	99
44) Isopropyl Acetate	8.17	43	219924	21.24	ug/l	96
45) 1,4-Dioxane	9.20	88	28050	364.60	ug/l	98
46) Methyl methacrylate	9.20	41	93080	17.95	ug/l	96
47) n-amyl Acetate	12.07	43	136656	16.41	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	167720	17.91	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	202713	18.84	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	127441	19.35	ug/l	98
51) Ethyl methacrylate	10.43	69	138967	17.25	ug/l	100
52) 1,3-Dichloropropane	10.71	76	207106	18.98	ug/l	100
53) Dibromochloromethane	10.90	129	141037	18.83	ug/l	98
54) 1,2-Dibromoethane	11.01	107	120840	18.56	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	301408	89.90	ug/l	99
56) Bromoform	12.13	173	96124	18.05	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	567006	93.55	ug/l	99
59) 2-Hexanone	10.75	43	356237	89.92	ug/l	98
61) Tetrachloroethene	10.63	164	131791	19.97	ug/l	98
62) Toluene	10.16	91	581533	19.68	ug/l	100
64) Chlorobenzene	11.44	112	346600	18.92	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	138443	20.02	ug/l	99
66) Ethyl Benzene	11.51	91	562759	18.38	ug/l	98
67) m/p-Xylenes	11.62	106	451302	38.32	ug/l	99
68) o-Xylene	11.95	106	212847	18.91	ug/l	100
69) Styrene	11.97	104	332234	18.57	ug/l	99
70) Isopropylbenzene	12.25	105	564936	18.89	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	157551	19.46	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	125478m	17.96	ug/l	
73) Bromobenzene	12.53	156	147825	18.79	ug/l	100
74) n-propylbenzene	12.59	91	622309	18.41	ug/l	99
75) 2-Chlorotoluene	12.68	91	390697	19.02	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	464388	19.00	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	34508	17.34	ug/l	98
78) 4-Chlorotoluene	12.77	91	380313	18.80	ug/l	99
79) tert-butylbenzene	12.99	119	400414	18.87	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	468344	19.22	ug/l	100
81) sec-Butylbenzene	13.17	105	520329	18.74	ug/l	100
82) p-Isopropyltoluene	13.29	119	440947	18.40	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	244250	18.36	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	230271	18.27	ug/l	99
85) n-Butylbenzene	13.62	91	309338	16.91	ug/l	99
86) Hexachloroethane	13.88	117	85896	18.67	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	246520	18.83	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20796	18.36	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	86900	14.91	ug/l	99
90) Hexachlorobutadiene	15.01	225	76550	19.33	ug/l	99
91) Naphthalene	15.13	128	170810	17.95	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	96185	16.44	ug/l	99

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

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