

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050041.D
 Acq On : 25 Jul 2018 10:49
 Operator : MD\SY
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 ICVVN072518

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:54:07 PM

Quant Time: Jul 26 15:25:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	137836	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	748769	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	651580	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	280045	29.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.63%
60) 4-Bromofluorobenzene	12.40	95	298203	29.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.30%
63) Toluene-d8	10.09	98	934270	30.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.07%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	214007	22.53	ug/l	96
3) Chloromethane	2.06	50	208709	21.31	ug/l	99
4) Vinyl Chloride	2.18	62	220707	21.17	ug/l	99
5) Bromomethane	2.56	94	144696	22.77	ug/l	98
6) Chloroethane	2.70	64	124765	20.23	ug/l	98
7) Trichlorofluoromethane	3.01	101	284588	20.89	ug/l	99
8) Diethyl Ether	3.41	74	95936	20.99	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	173789	20.97	ug/l	100
10) 1,1-Dichloroethene	3.73	96	157760	21.47	ug/l	95
11) Methyl Iodide	3.95	142	191557	17.71	ug/l	99
12) Methyl Acetate	4.33	43	181879	21.61	ug/l	98
13) Acrolein	3.61	56	48556	93.33	ug/l	95
14) Acrylonitrile	4.99	53	293340	104.43	ug/l	99
15) Acetone	3.82	58	80651	108.03	ug/l	98
16) Carbon Disulfide	4.05	76	487147	21.66	ug/l	99
17) Allyl chloride	4.32	41	246884	21.27	ug/l	98
18) Methylene Chloride	4.55	84	175357	20.68	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	167927	21.34	ug/l	99
20) Diisopropyl ether	5.96	45	503999	21.18	ug/l	99
21) 1,1-Dichloroethane	5.85	63	310122	20.73	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	181530	20.80	ug/l	99
23) tert-Butyl Alcohol	4.80	59	66632	106.16	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	420271	20.97	ug/l	99
25) Chloroform	7.37	83	311532	20.57	ug/l	100
26) Cyclohexane	7.65	56	251154	21.12	ug/l #	100
29) 1,1-Dichloropropene	7.79	75	235710	20.28	ug/l	99
30) 2-Butanone	6.84	43	359280	98.53	ug/l	99
31) 2,2-Dichloropropane	6.83	77	256882	20.00	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	267556	19.56	ug/l	99
33) Carbon Tetrachloride	7.77	117	233820	19.18	ug/l	97
34) Benzene	8.04	78	693846	19.66	ug/l	99
35) Methacrylonitrile	7.18	41	79324	19.11	ug/l	98
36) 1,2-Dichloroethane	8.13	62	226065	19.51	ug/l	99
37) Trichloroethene	8.84	130	186622	20.16	ug/l	95
38) Methylcyclohexane	9.08	83	248152	20.26	ug/l	99
39) 1,2-Dichloropropane	9.12	63	181124	19.48	ug/l	99
40) Dibromomethane	9.21	93	112803	19.63	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	234335	19.33	ug/l	97
42) Vinyl Acetate	5.90	43	1705854	99.41	ug/l	99
43) Ethyl Acetate	6.93	43	151090	19.84	ug/l	93
44) Isopropyl Acetate	8.17	43	291588	20.67	ug/l	94
45) 1,4-Dioxane	9.20	88	38610	415.97	ug/l	97
46) Methyl methacrylate	9.20	41	132143	19.33	ug/l	99
47) n-amyl Acetate	12.07	43	204894	18.67	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	228879	19.81	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	269013	19.82	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	159335	19.32	ug/l	99
51) Ethyl methacrylate	10.43	69	188762	18.86	ug/l	99
52) 1,3-Dichloropropane	10.71	76	263902	19.49	ug/l	99
53) Dibromochloromethane	10.90	129	177105	18.92	ug/l	100
54) 1,2-Dibromoethane	11.01	107	158300	19.60	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	432457	95.45	ug/l	99
56) Bromoform	12.13	173	122212	18.49	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	768299	101.34	ug/l	99
59) 2-Hexanone	10.75	43	522137	100.95	ug/l	99
61) Tetrachloroethene	10.63	164	175864	19.93	ug/l	97
62) Toluene	10.16	91	738611	19.87	ug/l	99
64) Chlorobenzene	11.44	112	457171	20.28	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	170974	19.44	ug/l	99
66) Ethyl Benzene	11.51	91	762278	20.06	ug/l	100
67) m/p-Xylenes	11.62	106	599061	40.97	ug/l	99
68) o-Xylene	11.95	106	281241	20.22	ug/l	100
69) Styrene	11.97	104	447650	20.07	ug/l	99
70) Isopropylbenzene	12.25	105	758778	20.48	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	198846	19.55	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	161778m	18.62	ug/l	
73) Bromobenzene	12.53	156	197190	19.98	ug/l	99
74) n-propylbenzene	12.59	91	883964	20.49	ug/l	99
75) 2-Chlorotoluene	12.68	91	526427	20.31	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	627518	20.62	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	53031	18.67	ug/l	94
78) 4-Chlorotoluene	12.78	91	523151	20.37	ug/l	99
79) tert-butylbenzene	12.99	119	532720	20.48	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	640523	20.78	ug/l	100
81) sec-Butylbenzene	13.17	105	734436	20.78	ug/l	99
82) p-Isopropyltoluene	13.29	119	629130	20.86	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	346917	20.19	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	328130	20.21	ug/l	99
85) n-Butylbenzene	13.62	91	491355	20.08	ug/l	99
86) Hexachloroethane	13.88	117	117094	19.43	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	339613	20.22	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	32958	20.80	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	169106	21.08	ug/l	99
90) Hexachlorobutadiene	15.01	225	120339	22.75	ug/l	98
91) Naphthalene	15.14	128	367915	22.27	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	177090	21.70	ug/l	99

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

