

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080624\
 Data File : VX042863.D
 Acq On : 06 Aug 2024 11:41
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/07/2024
 Supervised By : Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 04:28:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:19:06 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.903	128	37139m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	248779	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	236410	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	110281	32.268	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.567%			
60) 4-Bromofluorobenzene	11.079	95	120226	31.172	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.900%			
63) Toluene-d8	8.647	98	311839	29.202	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	330920	152.014	ug/l	99
3) Chloromethane	1.300	50	311452	155.885	ug/l	99
4) Vinyl Chloride	1.374	62	322247	151.067	ug/l	100
5) Bromomethane	1.599	94	190615	146.605	ug/l	99
6) Chloroethane	1.660	64	174144	137.229	ug/l	99
7) Trichlorofluoromethane	1.867	101	470469	138.273	ug/l	99
8) Diethyl Ether	2.136	74	206638	154.579	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.312	101	346515	149.403	ug/l	99
10) 1,1-Dichloroethene	2.306	96	336853	152.054	ug/l	97
11) Methyl Iodide	2.440	142	356213	174.825	ug/l	99
12) Methyl Acetate	2.715	43	785403	162.220	ug/l	100
13) Acrolein	2.245	56	97334m	708.105	ug/l	
14) Acrylonitrile	3.075	53	1178442	800.691	ug/l	97
15) Acetone	2.398	58	291844	611.124	ug/l	89
16) Carbon Disulfide	2.495	76	687595	149.147	ug/l	99
17) Allyl chloride	2.660	41	514465	143.489	ug/l	96
18) Methylene Chloride	2.782	84	399956	155.683	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	336549	149.178	ug/l	98
20) Diisopropyl ether	3.769	45	1204444	153.826	ug/l #	86
21) 1,1-Dichloroethane	3.605	63	670311	150.533	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	440225	155.520	ug/l	97
23) tert-Butyl Alcohol	3.007	59	521419m	768.174	ug/l	
24) Methyl tert-Butyl Ether	3.123	73	1268507	158.230	ug/l	100
25) Chloroform	5.099	83	740382	153.673	ug/l	96
26) Cyclohexane	5.464	56	521646	148.493	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	461060	143.811	ug/l	99
30) 2-Butanone	4.568	43	1643462	696.104	ug/l	99
31) 2,2-Dichloropropane	4.471	77	557257	148.753	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	658397	148.311	ug/l	98
33) Carbon Tetrachloride	5.672	117	565352	148.903	ug/l	98
34) Benzene	6.037	78	1483933	144.575	ug/l	98
35) Methacrylonitrile	4.934	41	342420	152.390	ug/l	97
36) 1,2-Dichloroethane	6.086	62	556272	146.849	ug/l	100
37) Trichloroethene	7.123	130	374484	144.116	ug/l	97
38) Methylcyclohexane	7.379	83	564511	142.077	ug/l	99
39) 1,2-Dichloropropane	7.427	63	384674	147.014	ug/l	94
40) Dibromomethane	7.580	93	289425	146.498	ug/l	98
41) Bromodichloromethane	7.824	83	588001	150.090	ug/l	99
42) Vinyl Acetate	3.727	43	4990734	722.767	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	578028	143.927	ug/l	98
44) Isopropyl Acetate	6.348	43	969039	152.023	ug/l	98
45) 1,4-Dioxane	7.665	88	211722	3263.290	ug/l	97
46) Methyl methacrylate	7.696	41	486195	153.486	ug/l	99
47) n-amyl Acetate	10.841	43	879100	161.220	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	592453	157.751	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	618638	152.104	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	399968	148.436	ug/l	97
51) Ethyl methacrylate	9.116	69	691315	156.799	ug/l	98
52) 1,3-Dichloropropane	9.311	76	644631	145.782	ug/l	99
53) Dibromochloromethane	9.525	129	484654	154.555	ug/l	100
54) 1,2-Dibromoethane	9.610	107	418490	149.336	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	1592153	781.982	ug/l	99
56) Bromoform	10.799	173	368156	163.783	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	3236484	726.975	ug/l	98
59) 2-Hexanone	9.433	43	2527797	718.355	ug/l	98
61) Tetrachloroethene	9.275	164	320856	136.701	ug/l	97
62) Toluene	8.720	91	1623012	140.168	ug/l	100
64) Chlorobenzene	10.079	112	1065361	143.755	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	403344	149.926	ug/l	99
66) Ethyl Benzene	10.195	91	1855675	144.189	ug/l	95
67) m/p-Xylenes	10.299	106	1404590	288.665	ug/l	99
68) o-Xylene	10.640	106	705357	147.053	ug/l	98
69) Styrene	10.652	104	1226789	148.531	ug/l	99
70) Isopropylbenzene	10.963	105	1833208	145.213	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	684362	150.306	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	544522m	146.408	ug/l	
73) Bromobenzene	11.195	156	472734	147.374	ug/l	99
74) n-propylbenzene	11.305	91	2154740	145.906	ug/l	100
75) 2-Chlorotoluene	11.366	91	1319421	146.379	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	1576728	147.358	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	223623	169.110	ug/l	97
78) 4-Chlorotoluene	11.457	91	1523277	147.354	ug/l	100
79) tert-butylbenzene	11.713	119	1648318	150.132	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	1594320	151.031	ug/l	100
81) sec-Butylbenzene	11.890	105	1999695	148.605	ug/l	100
82) p-Isopropyltoluene	12.006	119	1688176	149.809	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	882841	149.532	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	883021	148.762	ug/l	98
85) n-Butylbenzene	12.329	91	1553623	152.964	ug/l	100
86) Hexachloroethane	12.536	117	319528	157.109	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	902294	153.412	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	168237	163.560	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	602928	157.568	ug/l	97
90) Hexachlorobutadiene	13.725	225	250827	151.687	ug/l	97
91) Naphthalene	13.774	128	2100853	163.095	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	605211	156.620	ug/l	97

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

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