

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112823\
 Data File : VX039046.D
 Acq On : 28 Nov 2023 10:46
 Operator : JC/MD
 Sample : VX1128WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1128WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Nov 29 01:28:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

11/29/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.898	128	9406	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	72414	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	91850	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	40907	31.790	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.967%			
60) 4-Bromofluorobenzene	11.079	95	60091	29.953	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.833%			
63) Toluene-d8	8.647	98	108450	29.864	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.533%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	28461	20.216	ug/l	97
3) Chloromethane	1.295	50	31996	19.849	ug/l	96
4) Vinyl Chloride	1.374	62	32341	19.873	ug/l	95
5) Bromomethane	1.612	94	22833	22.939	ug/l	96
6) Chloroethane	1.691	64	19069	20.121	ug/l	95
7) Trichlorofluoromethane	1.886	101	45794	20.388	ug/l	97
8) Diethyl Ether	2.130	74	18278	21.200	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	25616	20.182	ug/l	99
10) 1,1-Dichloroethene	2.319	96	24780	19.368	ug/l	90
11) Methyl Iodide	2.453	142	27794	19.825	ug/l	96
12) Methyl Acetate	2.697	43	84559	21.191	ug/l	98
13) Acrolein	2.233	56	42367	121.198	ug/l	98
14) Acrylonitrile	3.056	53	105507	108.105	ug/l	99
15) Acetone	2.374	58	37386	105.384	ug/l	97
16) Carbon Disulfide	2.514	76	74762	19.294	ug/l	97
17) Allyl chloride	2.666	41	53868	21.209	ug/l	97
18) Methylene Chloride	2.788	84	31300	20.638	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	28913	19.981	ug/l	96
20) Diisopropyl ether	3.751	45	103459	21.405	ug/l #	89
21) 1,1-Dichloroethane	3.605	63	56383	20.981	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	34731	20.710	ug/l	100
23) tert-Butyl Alcohol	2.941	59	54131	100.187	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	100399	21.302	ug/l	97
25) Chloroform	5.093	83	56509	20.951	ug/l	98
26) Cyclohexane	5.471	56	49407	20.313	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	41805	20.594	ug/l	99
30) 2-Butanone	4.544	43	162308	106.197	ug/l	98
31) 2,2-Dichloropropane	4.471	77	48594	20.937	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	47882	20.408	ug/l	99
33) Carbon Tetrachloride	5.672	117	40074	20.277	ug/l	97
34) Benzene	6.038	78	121972	20.626	ug/l	99
35) Methacrylonitrile	4.916	41	28511	21.060	ug/l	95
36) 1,2-Dichloroethane	6.086	62	48270	22.247	ug/l	98
37) Trichloroethene	7.123	130	30431	20.276	ug/l	97
38) Methylcyclohexane	7.379	83	51292	20.279	ug/l	97
39) 1,2-Dichloropropane	7.428	63	32900	21.096	ug/l	100
40) Dibromomethane	7.580	93	23325	21.168	ug/l	98
41) Bromodichloromethane	7.818	83	44101	20.833	ug/l	98
42) Vinyl Acetate	3.715	43	404464	111.109	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	56448	21.468	ug/l	99
44) Isopropyl Acetate	6.336	43	91171	21.995	ug/l	98
45) 1,4-Dioxane	7.653	88	18676	441.357	ug/l	95
46) Methyl methacrylate	7.690	41	50836	21.451	ug/l	96
47) n-amyl Acetate	10.842	43	73368	20.912	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	50740	20.671	ug/l	90
49) cis-1,3-Dichloropropene	8.360	75	53383	21.082	ug/l	97
50) 1,1,2-Trichloroethane	9.147	97	32465	21.689	ug/l	98
51) Ethyl methacrylate	9.116	69	39796	21.239	ug/l	94
52) 1,3-Dichloropropane	9.305	76	55522	21.632	ug/l	99
53) Dibromochloromethane	9.519	129	33275	20.699	ug/l	97
54) 1,2-Dibromoethane	9.604	107	35239	21.467	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	125396	105.583	ug/l	99
56) Bromoform	10.799	173	23502	20.256	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	296602	106.487	ug/l	100
59) 2-Hexanone	9.427	43	239802	104.886	ug/l	99
61) Tetrachloroethene	9.269	164	23450	19.637	ug/l	96
62) Toluene	8.714	91	133069	20.406	ug/l	99
64) Chlorobenzene	10.080	112	82250	20.736	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	29725	20.808	ug/l	98
66) Ethyl Benzene	10.189	91	151022	20.338	ug/l	100
67) m/p-Xylenes	10.299	106	112202	40.892	ug/l	100
68) o-Xylene	10.640	106	55135	20.744	ug/l	99
69) Styrene	10.653	104	79045	20.095	ug/l	99
70) Isopropylbenzene	10.957	105	144561	20.328	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	55703	20.983	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	49263m	21.930	ug/l	
73) Bromobenzene	11.195	156	33782	20.865	ug/l	98
74) n-propylbenzene	11.305	91	177668	20.392	ug/l	100
75) 2-Chlorotoluene	11.360	91	104017	20.349	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	125430	20.474	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	17665	19.846	ug/l	97
78) 4-Chlorotoluene	11.451	91	123604	20.567	ug/l	100
79) tert-butylbenzene	11.713	119	119596	20.530	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	124834	20.360	ug/l	100
81) sec-Butylbenzene	11.890	105	149839	20.347	ug/l	99
82) p-Isopropyltoluene	12.006	119	124679	19.976	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	63475	20.486	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	65568	20.624	ug/l	99
85) n-Butylbenzene	12.329	91	124473	20.195	ug/l	99
86) Hexachloroethane	12.536	117	22893	19.358	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	62446	20.959	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	13978	20.588	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	41176	20.844	ug/l	99
90) Hexachlorobutadiene	13.725	225	14182	20.106	ug/l	97
91) Naphthalene	13.774	128	148115	20.331	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	40322	21.074	ug/l	98

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

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