

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037291.D
 Acq On : 30 Jul 2021 19:14
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 8/2/2021 8:57:38 AM

Quant Time: Jul 30 23:09:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 2021
 QLast Update : Fri Jul 30 22:49:48 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1210289	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3908781	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3492163	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2550610	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	121200	0.601 ppbv	95
3) Chlorodifluoromethane	2.98	51	134840	0.570 ppbv	97
4) Chloromethane	3.13	50	45402	0.576 ppbv	89
5) Vinyl Chloride	3.25	62	44243	0.511 ppbv	90
6) Bromomethane	3.47	94	26926	0.522 ppbv	97
7) Chloroethane	3.55	64	17774m	0.574 ppbv	
8) Dichlorotetrafluoroethane	3.18	85	119398	0.554 ppbv	96
9) Propene	3.01	41	47588	0.630 ppbv	95
10) Heptane	8.12	43	97375	0.530 ppbv	95
11) Trichlorofluoromethane	3.95	101	117868	0.530 ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.48	101	86403m	0.546 ppbv	
13) Ethanol	3.62	45	12958m	1.074 ppbv	
14) Bromoethene	3.74	108	34915m	0.525 ppbv	
15) Acetone	3.86	43	152706m	1.105 ppbv	
16) 1,3-Butadiene	3.32	39	44312m	0.552 ppbv	
17) tert-Butyl alcohol	4.31	59	74782m	0.593 ppbv	
18) 1,1-Dichloroethene	4.29	96	38049	0.541 ppbv	98
19) Isopropyl Alcohol	3.98	45	43338m	0.526 ppbv	
20) Methylene Chloride	4.34	84	53281	0.618 ppbv	98
21) Allyl Chloride	4.41	41	47580m	0.463 ppbv	
22) trans-1,2-Dichloroethene	4.89	96	33976	0.484 ppbv	92
23) Vinyl Acetate	5.08	43	84710	0.442 ppbv #	88
24) 1,1-Dichloroethane	5.01	63	70552	0.458 ppbv	96
25) Ethyl Acetate	5.69	43	161558	0.537 ppbv #	96
26) Hexane	5.69	57	88718	0.574 ppbv	95
27) Carbon Disulfide	4.55	76	52753	0.362 ppbv #	62
28) Methyl tert-Butyl Ether	5.05	73	92736	0.535 ppbv	100
29) Chloroform	5.75	83	132718m	0.573 ppbv	
30) Cyclohexane	7.13	84	60528	0.479 ppbv #	86
31) cis-1,2-Dichloroethene	5.55	61	71840	0.518 ppbv	92
32) 1,1,1-Trichloroethane	6.51	97	117648	0.476 ppbv	99
34) 2-Butanone	5.26	43	83876	0.552 ppbv #	82
35) Carbon Tetrachloride	7.02	117	115909	0.446 ppbv	99
36) Benzene	6.89	78	165541	0.522 ppbv	99
37) 1,2-Dichloroethane	6.30	62	78487m	0.432 ppbv	
38) Trichloroethene	7.84	130	72972	0.482 ppbv #	86
39) 1,2-Dichloropropane	7.61	63	65176m	0.555 ppbv	
40) 1,4-Dioxane	7.87	88	19801m	0.619 ppbv	
41) Tetrahydrofuran	6.09	42	33480m	0.474 ppbv	
42) Bromodichloromethane	7.80	83	106871	0.426 ppbv	99
43) Methyl Methacrylate	8.03	69	49253m	0.452 ppbv	

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44) 2,2,4-Trimethylpentane	7.87	57	273797	0.514	ppbv	97
45) t-1,3-Dichloropropene	9.28	75	35034m	0.369	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	45858	0.352	ppbv	90
47) 1,1,2-Trichloroethane	9.48	97	70269m	0.522	ppbv	
48) Dibromochloromethane	10.32	129	88287m	0.418	ppbv	
49) Bromoform	13.05	173	55926	0.350	ppbv	98
50) 4-Methyl-2-Pentanone	8.77	43	99801m	0.483	ppbv	
51) 2-Hexanone	10.17	43	43599m	0.434	ppbv	
52) Tetrachloroethene	11.23	164	71330m	0.483	ppbv	
53) Toluene	9.81	91	183136m	0.482	ppbv	
54) 1,2-Dibromoethane	10.62	107	91714	0.475	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.14	131	77656	0.512	ppbv #	1
57) Chlorobenzene	12.15	112	156493	0.552	ppbv	96
58) Ethyl Benzene	12.72	91	244728m	0.511	ppbv	
59) m/p-Xylene	13.00	91	434654m	1.071	ppbv	
60) o-Xylene	13.70	91	209196	0.541	ppbv	99
61) Styrene	13.54	104	86052	0.432	ppbv	93
62) Isopropylbenzene	14.68	105	295456m	0.536	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.68	83	147269m	0.567	ppbv	
64) n-propylbenzene	15.57	120	69757m	0.504	ppbv	
65) tert-Butylbenzene	16.76	119	265337	0.539	ppbv	92
66) Benzyl Chloride	17.00	91	10943m	0.482	ppbv	
67) sec-Butylbenzene	17.30	105	349577	0.532	ppbv	99
69) p-Isopropyltoluene	17.66	119	282774	0.509	ppbv	96
70) n-Butylbenzene	18.56	91	276581m	0.538	ppbv	
71) 2-Chlorotoluene	15.46	91	200639m	0.520	ppbv	
72) 4-Ethyltoluene	15.85	105	225700	0.507	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	215897	0.504	ppbv	92
74) 1,2,4-Trimethylbenzene	16.78	105	247340	0.561	ppbv #	85
75) 1,3-Dichlorobenzene	17.00	146	142554	0.527	ppbv	92
76) 1,4-Dichlorobenzene	17.15	146	153767m	0.566	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	139034	0.530	ppbv	94
78) Hexachloro-1,3-Butadiene	23.39	225	117970m	0.535	ppbv	
79) Naphthalene	22.22	128	169900m	0.478	ppbv	
80) Naphthalene, 2-methyl-	25.01	142	40697	0.439	ppbv #	78
81) 1,2,4-Trichlorobenzene	21.94	180	109506m	0.526	ppbv	

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

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