

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036321.D
 Acq On : 10 Feb 2021 16:21
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL021021

Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:42:05 PM

Quant Time: Feb 10 16:55:47 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:55:47 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1475647	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3496901	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3209380m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2723245	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1800175	8.174	ppbv	99
3) Chlorodifluoromethane	2.98	51	1584728	8.643	ppbv	99
4) Chloromethane	3.12	50	788108	8.897	ppbv	97
5) Vinyl Chloride	3.24	62	776559	9.415	ppbv	98
6) Bromomethane	3.46	94	441992	9.015	ppbv	95
7) Chloroethane	3.54	64	275180	9.396	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	1755748	8.766	ppbv	95
9) Propene	3.00	41	732435	10.715	ppbv	99
10) Heptane	8.10	43	1868771	9.276	ppbv	98
11) Trichlorofluoromethane	3.93	101	1875489	8.697	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1197332	8.963	ppbv	98
13) Ethanol	3.59	45	100814m	7.852	ppbv	
14) Bromoethene	3.72	108	530634	9.491	ppbv	98
15) Acetone	3.83	43	1451466	8.047	ppbv	99
16) 1,3-Butadiene	3.31	39	756370	8.769	ppbv	100
17) tert-Butyl alcohol	4.28	59	1453174	10.378	ppbv	100
18) 1,1-Dichloroethene	4.27	96	539587	8.888	ppbv	93
19) Isopropyl Alcohol	3.95	45	961716	9.623	ppbv #	98
20) Methylene Chloride	4.33	84	462270	7.944	ppbv	99
21) Allyl Chloride	4.39	41	927372	9.234	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	532784	9.661	ppbv	96
23) Vinyl Acetate	5.06	43	1953120	9.209	ppbv #	98
24) 1,1-Dichloroethane	5.00	63	1431115	9.124	ppbv	98
25) Ethyl Acetate	5.66	43	3215985	9.235	ppbv	100
26) Hexane	5.67	57	1297925	9.071	ppbv	99
27) Carbon Disulfide	4.53	76	1343748	10.219	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1869299	10.001	ppbv	99
29) Chloroform	5.74	83	2003431	8.691	ppbv	99
30) Cyclohexane	7.11	84	1072459	9.013	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	1334708	9.428	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	1998139	9.272	ppbv	98
34) 2-Butanone	5.23	43	1999344	8.605	ppbv	99
35) Carbon Tetrachloride	7.00	117	1985912	8.474	ppbv	100
36) Benzene	6.87	78	2648658	8.917	ppbv	98
37) 1,2-Dichloroethane	6.29	62	1576262	8.583	ppbv	99
38) Trichloroethene	7.82	130	900325	8.460	ppbv	96
39) 1,2-Dichloropropane	7.60	63	1073080	8.893	ppbv	97
40) 1,4-Dioxane	7.81	88	364459	8.717	ppbv #	1
41) Tetrahydrofuran	6.03	42	1227861	9.470	ppbv	99
42) Bromodichloromethane	7.77	83	2173497	8.836	ppbv	100
43) Methyl Methacrylate	8.00	69	1205172	9.620	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	4528172	8.383	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	1289753	10.672	ppbv	98
46) cis-1,3-Dichloropropene	8.69	75	1556375	10.138	ppbv	98
47) 1,1,2-Trichloroethane	9.46	97	1025424	8.304	ppbv	97
48) Dibromochloromethane	10.28	129	1712701	9.294	ppbv	99
49) Bromoform	13.02	173	1336038	8.969	ppbv	99
50) 4-Methyl-2-Pentanone	8.72	43	3133598	9.085	ppbv	99
51) 2-Hexanone	10.12	43	2539009	9.688	ppbv #	98
52) Tetrachloroethene	11.20	164	851600	7.831	ppbv	95
53) Toluene	9.79	91	2939671	9.136	ppbv	100
54) 1,2-Dibromoethane	10.59	107	1537873	8.617	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.10	131	1258554	8.526	ppbv	99
57) Chlorobenzene	12.13	112	2070488	8.350	ppbv	98
58) Ethyl Benzene	12.69	91	3938586	8.962	ppbv	99
59) m/p-Xylene	12.98	91	6554552m	16.980	ppbv	
60) o-Xylene	13.68	91	3092565	8.379	ppbv	100
61) Styrene	13.51	104	2162367	9.454	ppbv	99
62) Isopropylbenzene	14.65	105	4587020	8.291	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	2100007	7.211	ppbv	99
64) n-propylbenzene	15.55	120	1168762	8.584	ppbv	100
65) tert-Butylbenzene	16.73	119	3852553	8.139	ppbv	99
66) Benzyl Chloride	16.97	91	1261203	9.801	ppbv	99
67) sec-Butylbenzene	17.28	105	5540473	8.116	ppbv	100
69) p-Isopropyltoluene	17.64	119	4564824	8.653	ppbv	100
70) n-Butylbenzene	18.54	91	4859430	8.590	ppbv	99
71) 2-Chlorotoluene	15.44	91	3541884	8.352	ppbv	99
72) 4-Ethyltoluene	15.82	105	3523189	8.578	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	3327544	8.357	ppbv	100
74) 1,2,4-Trimethylbenzene	16.75	105	3367966	8.286	ppbv	95
75) 1,3-Dichlorobenzene	16.98	146	1784316	8.087	ppbv	98
76) 1,4-Dichlorobenzene	17.12	146	1775552	7.750	ppbv	97
77) 1,2-Dichlorobenzene	17.80	146	1793083	8.192	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	1466826	8.203	ppbv	100
79) Naphthalene	22.18	128	2930266	12.161	ppbv #	96
80) Naphthalene, 2-methyl-	24.96	142	902409	20.227	ppbv	97
81) 1,2,4-Trichlorobenzene	21.91	180	1481498	10.078	ppbv	98

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

