

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111621\
 Data File : VL038032.D
 Acq On : 16 Nov 2021 8:47
 Operator : SY/AP
 Sample : VL1116ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VL1116ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/17/2021
 Supervised By : Mahesh Dadoda 11/17/2021

Quant Time: Nov 17 06:58:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111621A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Nov 16 09:59:16 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	755075	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2820000	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2545291m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1984484	10.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.90%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1363620	8.877	ppbv	99
3) Chlorodifluoromethane	2.99	51	1645344	8.382	ppbv	100
4) Chloromethane	3.14	50	585686	8.385	ppbv	100
5) Vinyl Chloride	3.26	62	605796	9.036	ppbv	95
6) Bromomethane	3.47	94	325274	9.077	ppbv	98
7) Chloroethane	3.56	64	207443	8.797	ppbv	95
8) Dichlorotetrafluoroethane	3.19	85	1375588	8.646	ppbv	99
9) Propene	3.01	41	608665	8.221	ppbv	99
10) Heptane	8.11	43	1530646	8.400	ppbv	100
11) Trichlorofluoromethane	3.95	101	1349846	8.894	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1016709	8.643	ppbv	98
13) Ethanol	3.62	45	57987	8.835	ppbv #	100
14) Bromoethene	3.74	108	428804	8.718	ppbv	97
15) Acetone	3.85	43	704735	7.939	ppbv	98
16) 1,3-Butadiene	3.33	39	558881	8.501	ppbv	98
17) tert-Butyl alcohol	4.29	59	996089	8.354	ppbv	100
18) 1,1-Dichloroethene	4.29	96	470628	8.669	ppbv	99
19) Isopropyl Alcohol	3.96	45	505730	7.779	ppbv	98
20) Methylene Chloride	4.34	84	385974	7.412	ppbv	95
21) Allyl Chloride	4.41	41	763535	8.594	ppbv	97
22) trans-1,2-Dichloroethene	4.88	96	502260	9.169	ppbv	99
23) Vinyl Acetate	5.07	43	1247724	8.486	ppbv	99
24) 1,1-Dichloroethane	5.01	63	999723	8.717	ppbv	99
25) Ethyl Acetate	5.67	43	1920885	9.198	ppbv	99
26) Hexane	5.68	57	931428	8.878	ppbv	99
27) Carbon Disulfide	4.55	76	1253919	9.113	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1166334	8.669	ppbv	98
29) Chloroform	5.74	83	1486077	9.404	ppbv	99
30) Cyclohexane	7.12	84	976824	8.268	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	787466	9.066	ppbv	97
32) 1,1,1-Trichloroethane	6.50	97	1633864	8.148	ppbv	99
34) 2-Butanone	5.24	43	784911	8.439	ppbv	99
35) Carbon Tetrachloride	7.01	117	1679501	8.616	ppbv	99
36) Benzene	6.88	78	2360661	8.800	ppbv	99
37) 1,2-Dichloroethane	6.30	62	1164507	9.353	ppbv	100
38) Trichloroethene	7.83	130	866445	7.951	ppbv	98
39) 1,2-Dichloropropane	7.60	63	924547	8.916	ppbv	99
40) 1,4-Dioxane	7.83	88	213283	7.976	ppbv #	100
41) Tetrahydrofuran	6.04	42	613347	9.190	ppbv	99
42) Bromodichloromethane	7.78	83	1790695	9.136	ppbv	100
43) Methyl Methacrylate	8.01	69	869739	9.090	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	3876939	8.413	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	826578	10.431	ppbv	98
46) cis-1,3-Dichloropropene	8.69	75	1036176	10.005	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	956428	9.081	ppbv	96
48) Dibromochloromethane	10.29	129	1599004	9.338	ppbv	99
49) Bromoform	13.03	173	1247456	9.441	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	1536088	9.158	ppbv	99
51) 2-Hexanone	10.12	43	748104	9.552	ppbv #	97
52) Tetrachloroethene	11.21	164	821011	8.108	ppbv	99
53) Toluene	9.80	91	2769566	8.829	ppbv	100
54) 1,2-Dibromoethane	10.60	107	1399388	9.483	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.11	131	1032077	9.287	ppbv #	60
57) Chlorobenzene	12.13	112	1936140	9.277	ppbv	99
58) Ethyl Benzene	12.70	91	3628598	9.386	ppbv	99
59) m/p-Xylene	12.98	91	5841737m	18.185	ppbv	
60) o-Xylene	13.68	91	2682859	8.998	ppbv	100
61) Styrene	13.51	104	1636119	9.840	ppbv	98
62) Isopropylbenzene	14.65	105	3886528	9.015	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.66	83	1901569	8.530	ppbv	99
64) n-propylbenzene	15.55	120	1052084	9.573	ppbv	95
65) tert-Butylbenzene	16.73	119	3352298	8.861	ppbv	99
66) Benzyl Chloride	16.97	91	311015	11.772	ppbv	98
67) sec-Butylbenzene	17.28	105	4715767	9.024	ppbv	99
69) p-Isopropyltoluene	17.64	119	3893613	9.242	ppbv	99
70) n-Butylbenzene	18.54	91	3776702	9.779	ppbv	100
71) 2-Chlorotoluene	15.44	91	2917021	9.453	ppbv	98
72) 4-Ethyltoluene	15.82	105	3377697	9.500	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	3004939	9.240	ppbv	99
74) 1,2,4-Trimethylbenzene	16.75	105	3037123	9.276	ppbv	98
75) 1,3-Dichlorobenzene	16.98	146	1808008	10.006	ppbv	100
76) 1,4-Dichlorobenzene	17.12	146	1774789	9.587	ppbv	99
77) 1,2-Dichlorobenzene	17.80	146	1723749	9.947	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	933118	8.302	ppbv	99
79) Naphthalene	22.18	128	1850256	10.301	ppbv	99
80) Naphthalene,2-methyl-	24.96	142	430858	12.704	ppbv	95
81) 1,2,4-Trichlorobenzene	21.90	180	1003126	9.876	ppbv	98

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

