

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033664.D
 Acq On : 6 May 2019 18:30
 Operator : SY/AP
 Sample : K2241-14 0.5PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:46 PM

Quant Time: May 07 04:30:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 07 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	934782	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2393044	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2271468	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1917474	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	114386	0.522 ppbv	95
3) Chlorodifluoromethane	3.01	51	69834m	0.517 ppbv	
4) Chloromethane	3.17	50	39233	0.559 ppbv	89
5) Vinyl Chloride	3.29	62	36558	0.536 ppbv	98
6) Bromomethane	3.52	94	22576	0.521 ppbv	100
7) Chloroethane	3.60	64	12688	0.512 ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	98289	0.545 ppbv	100
9) Propene	3.03	41	27989m	0.544 ppbv	
10) Heptane	8.25	43	58200	0.458 ppbv	97
11) Trichlorofluoromethane	4.00	101	112197	0.548 ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.55	101	74388	0.540 ppbv	96
13) Ethanol	3.66	45	8622	0.558 ppbv	81
14) Bromoethene	3.79	108	27415	0.505 ppbv #	96
15) Acetone	3.91	43	77528	0.557 ppbv	97
16) 1,3-Butadiene	3.36	39	30628	0.514 ppbv	93
17) tert-Butyl alcohol	4.37	59	61698	0.584 ppbv	98
18) 1,1-Dichloroethene	4.35	96	31477	0.530 ppbv	83
19) Isopropyl Alcohol	4.04	45	51807	0.606 ppbv #	94
20) Methylene Chloride	4.41	84	30690	0.581 ppbv	84
21) Allyl Chloride	4.47	41	43915	0.522 ppbv	96
22) trans-1,2-Dichloroethene	4.96	96	32251	0.541 ppbv	96
23) Vinyl Acetate	5.15	43	81427	0.451 ppbv #	96
24) 1,1-Dichloroethane	5.08	63	73915	0.541 ppbv	97
25) Ethyl Acetate	5.77	43	114102	0.504 ppbv	99
26) Hexane	5.78	57	47319	0.487 ppbv	89
27) Carbon Disulfide	4.62	76	61128	0.460 ppbv #	89
28) Methyl tert-Butyl Ether	5.12	73	77717	0.474 ppbv	97
29) Chloroform	5.84	83	91703	0.524 ppbv	90
30) Cyclohexane	7.25	84	39668m	0.486 ppbv	
31) cis-1,2-Dichloroethene	5.63	61	46515	0.481 ppbv #	86
32) 1,1,1-Trichloroethane	6.62	97	90572	0.502 ppbv	97
34) 2-Butanone	5.34	43	72187	0.471 ppbv	97
35) Carbon Tetrachloride	7.13	117	96330	0.490 ppbv	96
36) Benzene	7.00	78	98882	0.461 ppbv	99
37) 1,2-Dichloroethane	6.41	62	71241	0.476 ppbv	98
38) Trichloroethene	7.96	130	38805	0.493 ppbv	87
39) 1,2-Dichloropropane	7.73	63	38301	0.479 ppbv	91
40) 1,4-Dioxane	7.98	88	17997m	0.563 ppbv	
41) Tetrahydrofuran	6.16	42	34788	0.439 ppbv	99
42) Bromodichloromethane	7.91	83	91746	0.475 ppbv	88
43) Methyl Methacrylate	8.14	69	33475	0.415 ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	170629	0.465	ppbv	95
45) t-1,3-Dichloropropene	9.41	75	36422m	0.368	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	45467m	0.368	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	44102	0.480	ppbv	96
48) Dibromochloromethane	10.45	129	76575	0.492	ppbv	100
49) Bromoform	13.20	173	55580m	0.411	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	102500	0.442	ppbv	93
51) 2-Hexanone	10.28	43	67521	0.376	ppbv #	95
52) Tetrachloroethene	11.37	164	37734m	0.496	ppbv	
53) Toluene	9.94	91	87821	0.379	ppbv	97
54) 1,2-Dibromoethane	10.75	107	63324	0.458	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	56022m	0.535	ppbv	
57) Chlorobenzene	12.30	112	102428m	0.549	ppbv	
58) Ethyl Benzene	12.86	91	124223	0.419	ppbv	98
59) m/p-Xylene	13.15	91	250583m	0.960	ppbv	
60) o-Xylene	13.84	91	126744m	0.480	ppbv	
61) Styrene	13.69	104	67283	0.383	ppbv	98
62) Isopropylbenzene	14.82	105	166546	0.462	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	104558	0.544	ppbv	98
64) n-propylbenzene	15.72	120	41754m	0.448	ppbv	
65) tert-Butylbenzene	16.90	119	145301	0.439	ppbv	94
66) Benzyl Chloride	17.16	91	60518m	0.402	ppbv	
67) sec-Butylbenzene	17.45	105	211789	0.459	ppbv	100
69) p-Isopropyltoluene	17.81	119	164403m	0.432	ppbv	
70) n-Butylbenzene	18.71	91	187822m	0.466	ppbv	
71) 2-Chlorotoluene	15.61	91	116596m	0.438	ppbv	
72) 4-Ethyltoluene	16.00	105	125694	0.405	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.15	105	134530m	0.448	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	155966	0.468	ppbv	91
75) 1,3-Dichlorobenzene	17.15	146	110866m	0.550	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	92968m	0.486	ppbv	
77) 1,2-Dichlorobenzene	17.98	146	91945m	0.493	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	83406m	0.564	ppbv	
79) Naphthalene	22.42	128	134808	0.443	ppbv #	95
80) Naphthalene, 2-methyl-	25.12	142	50181	0.436	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	85463m	0.483	ppbv	

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

