Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
Data File : VL033213.D
Acq On : 15 Feb 2019 00:53
Operator : SY/AP
Sample : K1483-06
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Quant Time: Feb 15 15:39:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.77	49	964436	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.30	114	2103016	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.24	117	2074358	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.58	95	1677308	10.50	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.08	85	87176	0.473	ppbv		96
3) Chlorodifluoromethane	3.02	51	33894m	0.292	ppbv		
4) Chloromethane	3.17	50	11235	0.183	ppbv		90
7) Chloroethane	3.60	64	118657	5.669	ppbv		96
10) Heptane	8.25	43	24017	0.142	ppbv		100
11) Trichlorofluoromethane	4.01	101	99976	0.670	ppbv		97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	273729	2.646	ppbv		99
13) Ethanol	3.66	45	143437	7.668	ppbv		98
15) Acetone	3.91	43	531134	4.888	ppbv		91
17) tert-Butyl alcohol	4.38	59	42219m	2.038	ppbv		
18) 1,1-Dichloroethene	4.35	96	169578	3.662	ppbv		99
19) Isopropyl Alcohol	4.04	45	214039m	2.904	ppbv		
20) Methylene Chloride	4.41	84	130279	3.014	ppbv		94
24) 1,1-Dichloroethane	5.09	63	7486220	56.203	ppbv		98
26) Hexane	5.78	57	219242	1.912	ppbv	#	43
31) cis-1,2-Dichloroethene	5.64	61	29656m	0.258	ppbv		
32) 1,1,1-Trichloroethane	6.63	97	19618276	101.373	ppbv		88
34) 2-Butanone	5.34	43	72316	0.542	ppbv		97
36) Benzene	7.01	78	43080	0.202	ppbv	#	90
38) Trichloroethene	7.97	130	77019	0.844	ppbv		94
40) 1,4-Dioxane	7.98	88	52560m	1.718	ppbv		
41) Tetrahydrofuran	6.16	42	12311	0.149	ppbv		95
44) 2,2,4-Trimethylpentane	8.00	57	74444m	0.206	ppbv		
47) 1,1,2-Trichloroethane	9.62	97	23793m	0.272	ppbv		
52) Tetrachloroethene	11.37	164	115414	1.409	ppbv		89
53) Toluene	9.95	91	141466	0.561	ppbv		99
58) Ethyl Benzene	12.87	91	138981	0.414	ppbv		91
59) m/p-Xylene	13.12	91	642593	2.294	ppbv	#	100
60) o-Xylene	13.85	91	167549	0.615	ppbv		98
74) 1,2,4-Trimethylbenzene	16.92	105	102948	0.330	ppbv	#	80

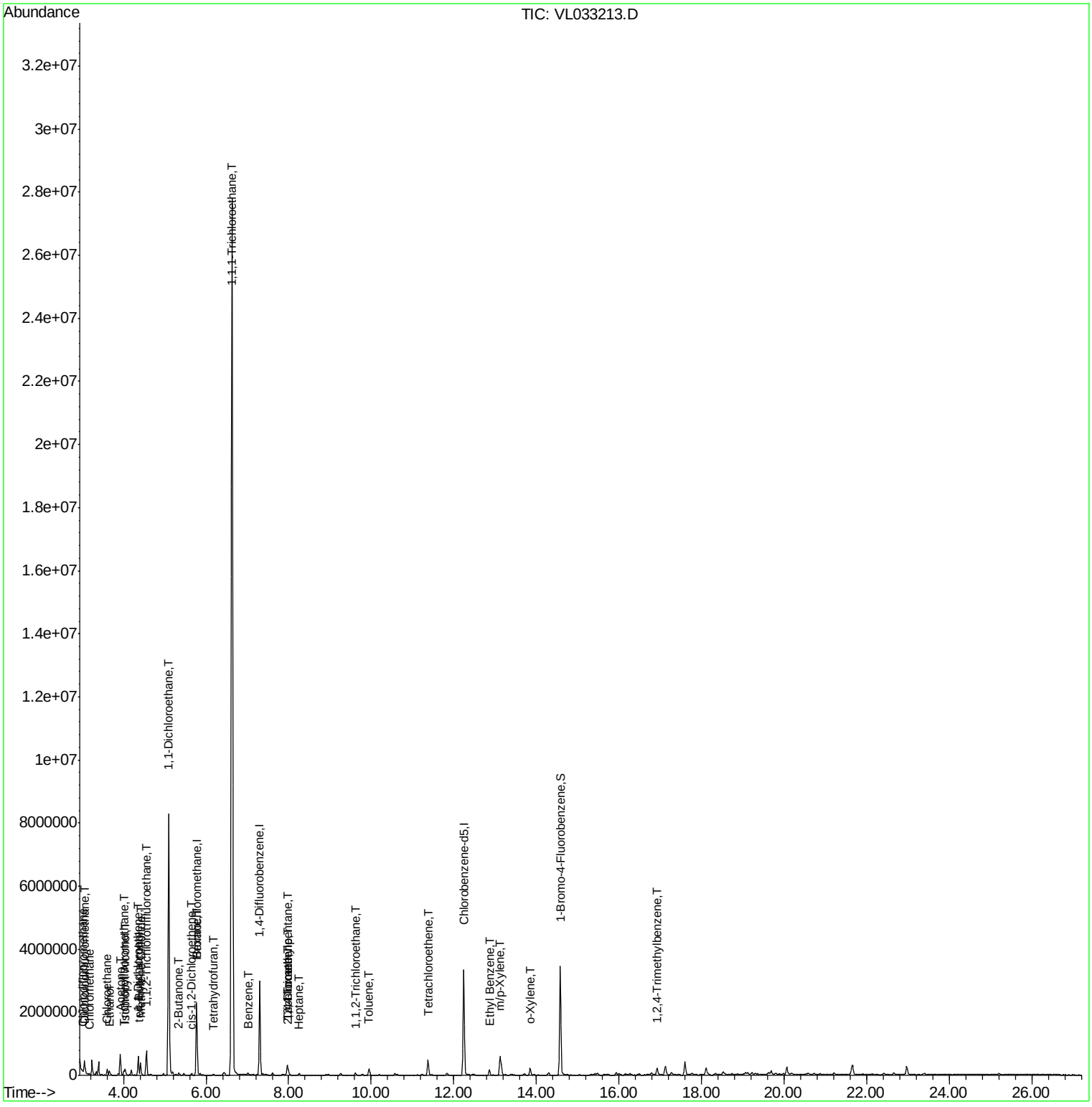
(#) = qualifier out of range (m) = manual integration (+) = signals summed

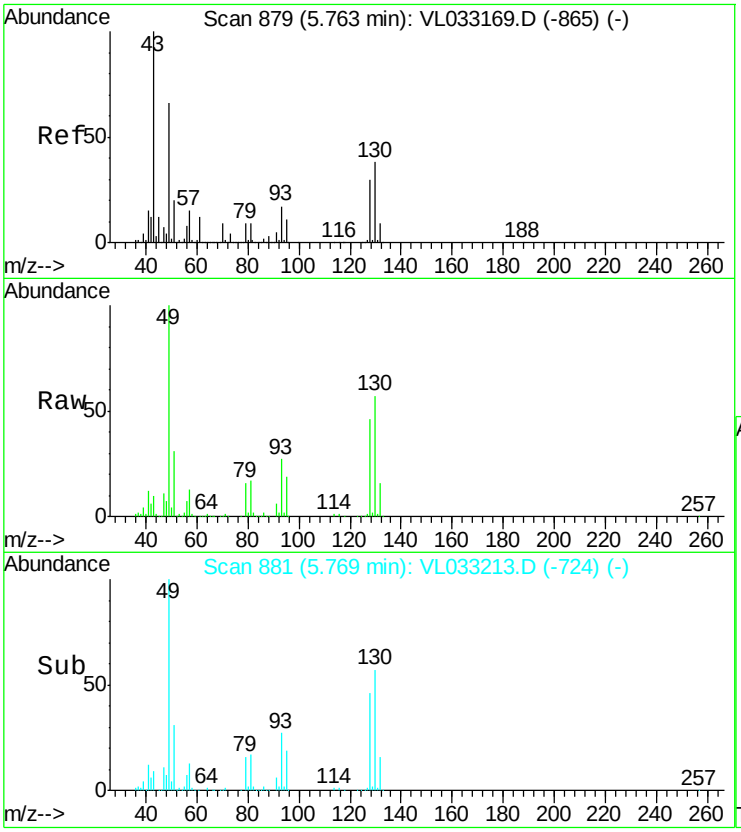
Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
Data File : VL033213.D
Acq On : 15 Feb 2019 00:53
Operator : SY/AP
Sample : K1483-06
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Quant Time: Feb 15 15:39:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration



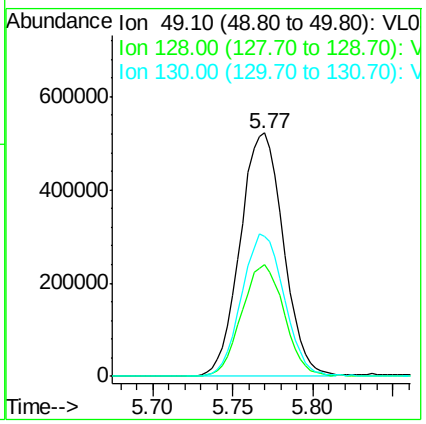


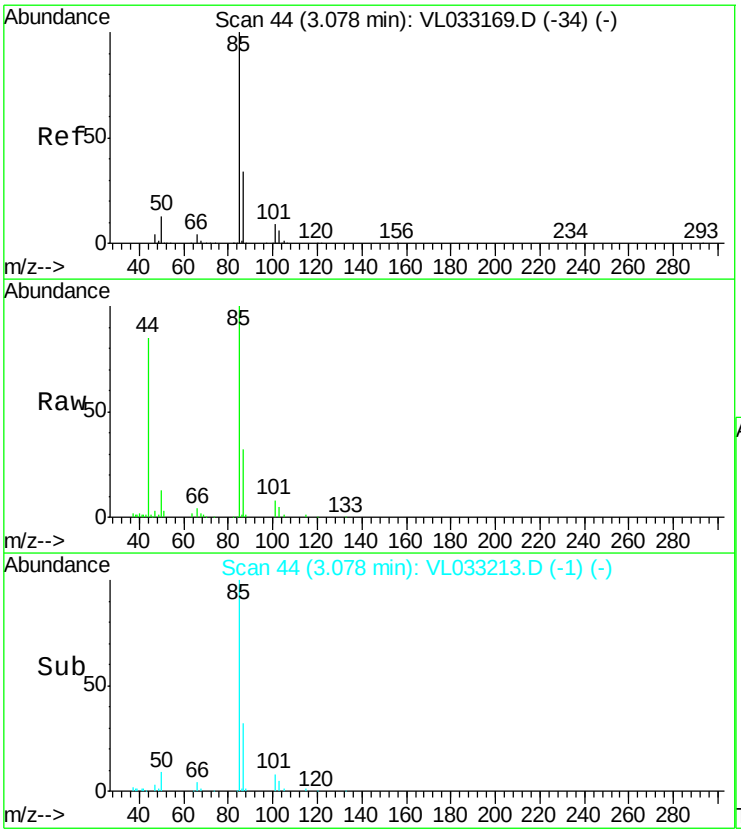
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument :
MSVOA_L
ClientSampleId :
ZONE-G

Tgt Ion: 49 Resp: 964436

Ion	Ratio	Lower	Upper
49	100		
128	45.3	23.6	71.0
130	58.2	30.3	91.0

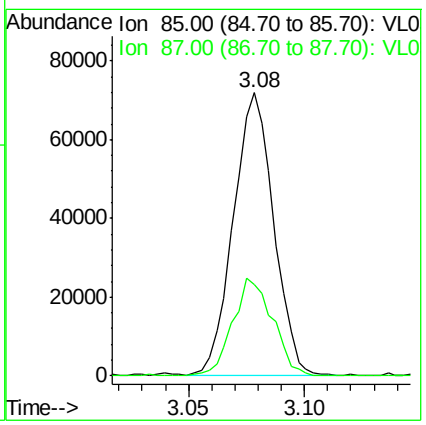


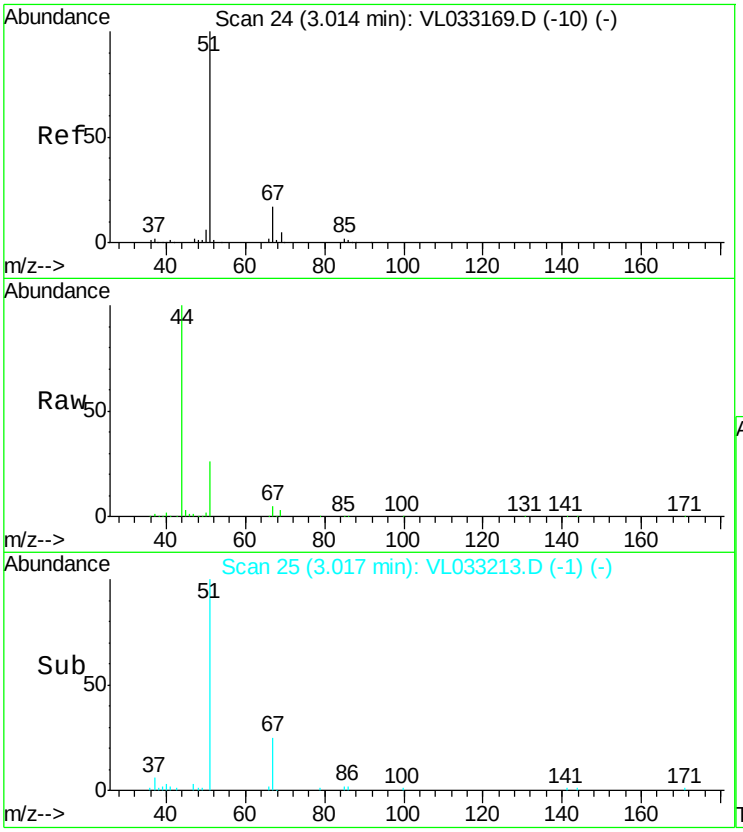


#2
Dichlorodifluoromethane
Concen: 0.473 ppbv
RT: 3.08 min Scan# 44
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 85 Resp: 87176

Ion	Ratio	Lower	Upper
85	100		
87	31.8	27.4	41.2



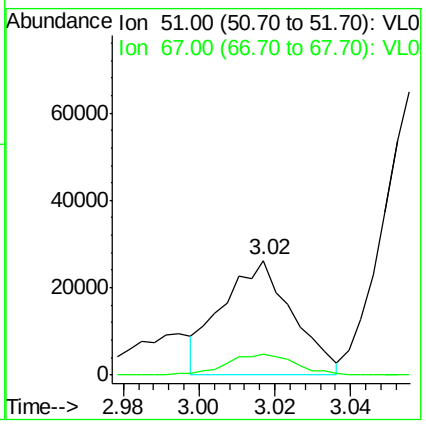


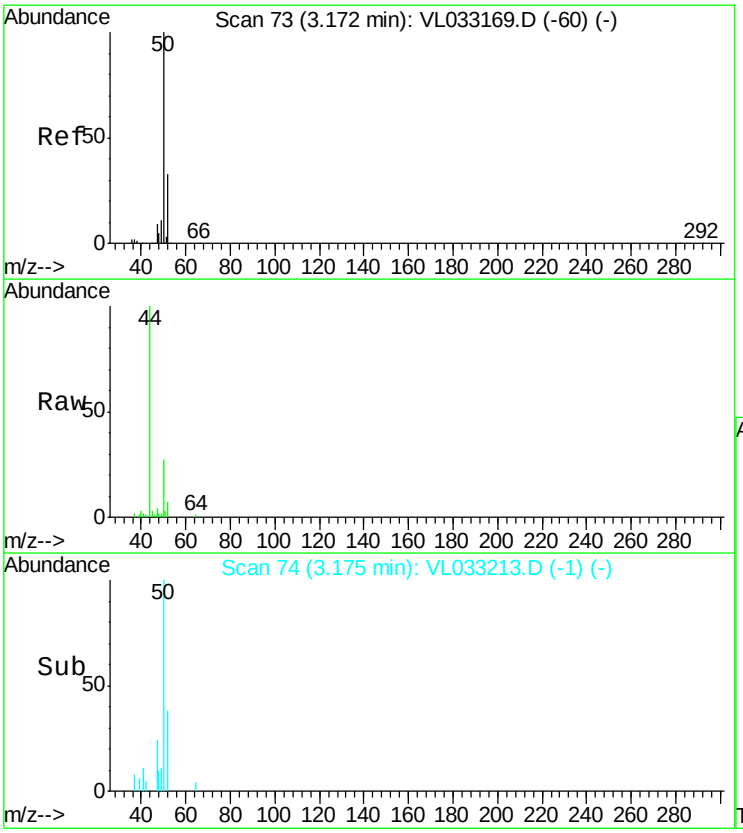
#3
Chlorodifluoromethane
Concen: 0.292 ppbv m
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion: 51 Resp: 33894

Ion	Ratio	Lower	Upper
51	100		
67	18.1	14.0	21.0

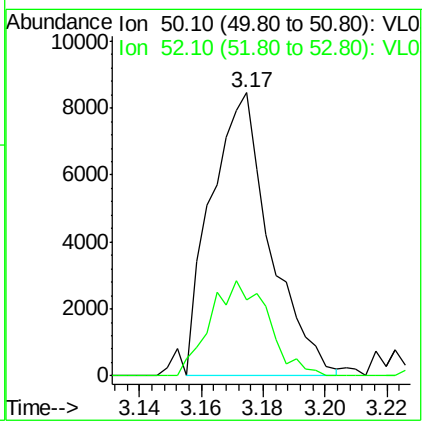


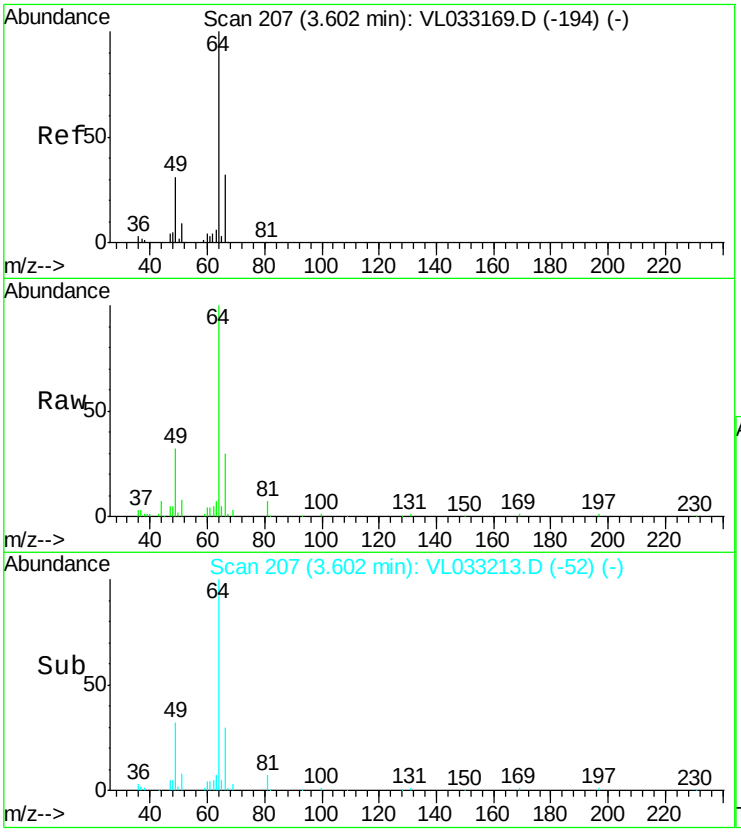


#4
Chloromethane
Concen: 0.183 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 50 Resp: 11235

Ion	Ratio	Lower	Upper
50	100		
52	27.4	26.5	39.7



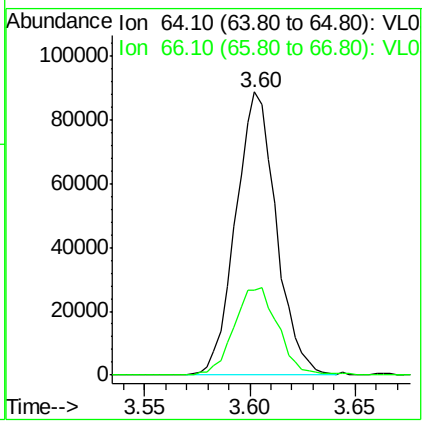


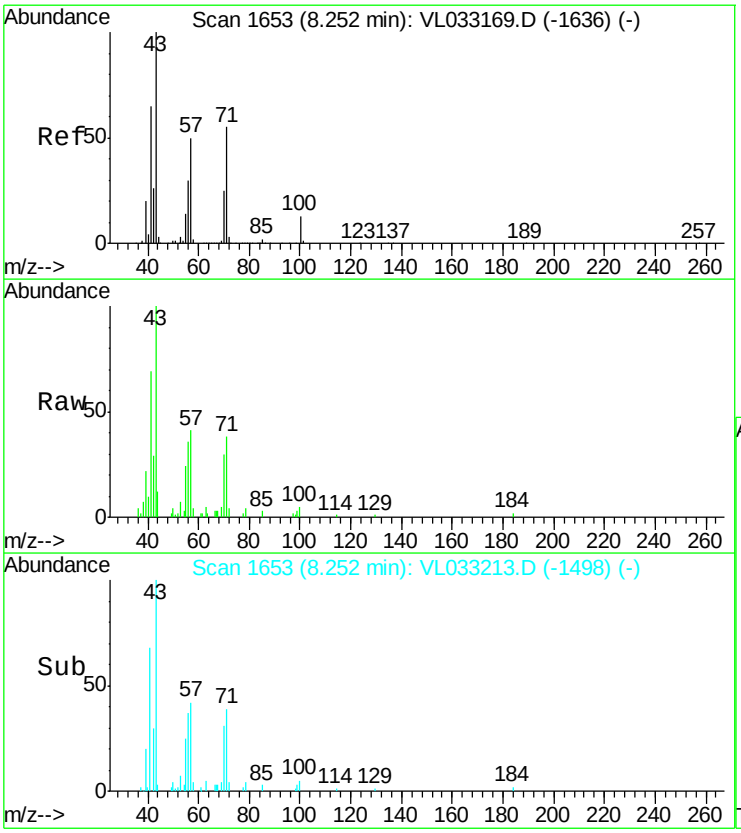
#7
Chloroethane
Concen: 5.669 ppbv
RT: 3.60 min Scan# 207
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion: 64 Resp: 118657

Ion	Ratio	Lower	Upper
64	100		
66	30.1	26.0	39.0

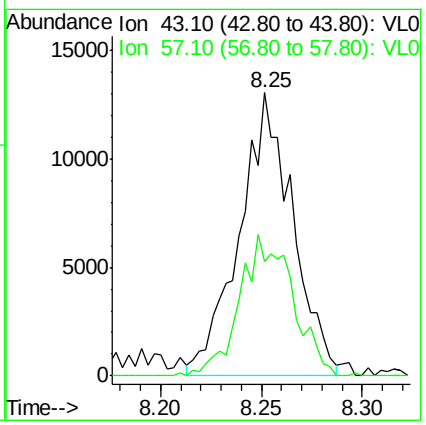


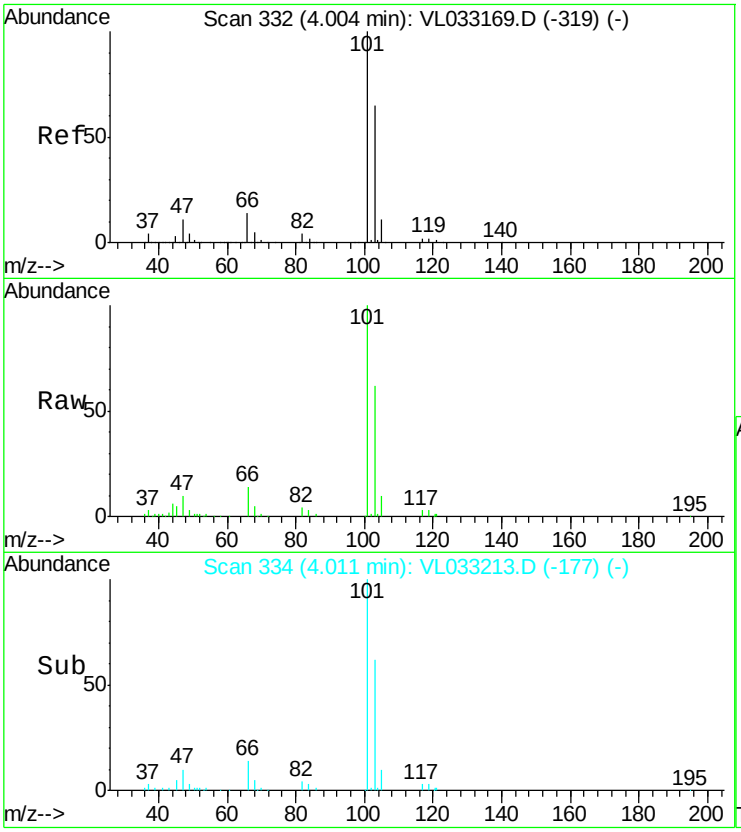


#10
Heptane
Concen: 0.142 ppbv
RT: 8.25 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 43 Resp: 24017

Ion	Ratio	Lower	Upper
43	100		
57	49.5	39.5	59.3



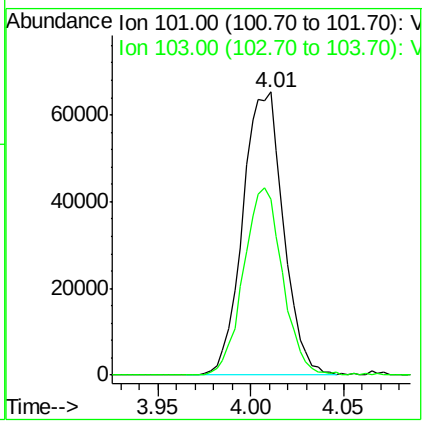


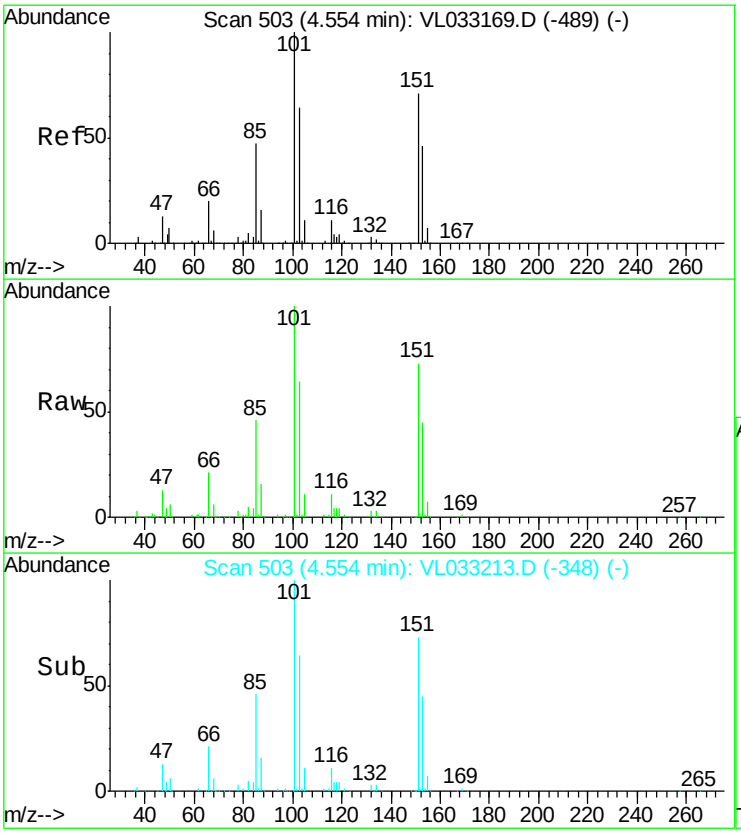
#11
Trichlorofluoromethane
Concen: 0.670 ppbv
RT: 4.01 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion:101 Resp: 99976

Ion	Ratio	Lower	Upper
101	100		
103	62.0	51.7	77.5

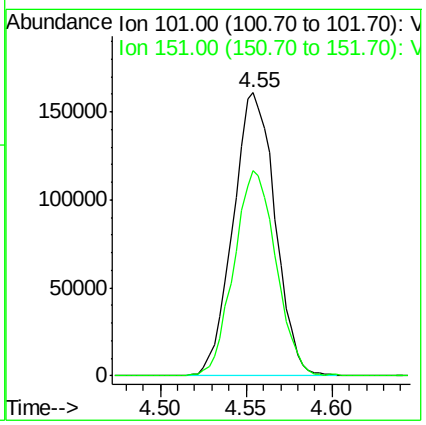


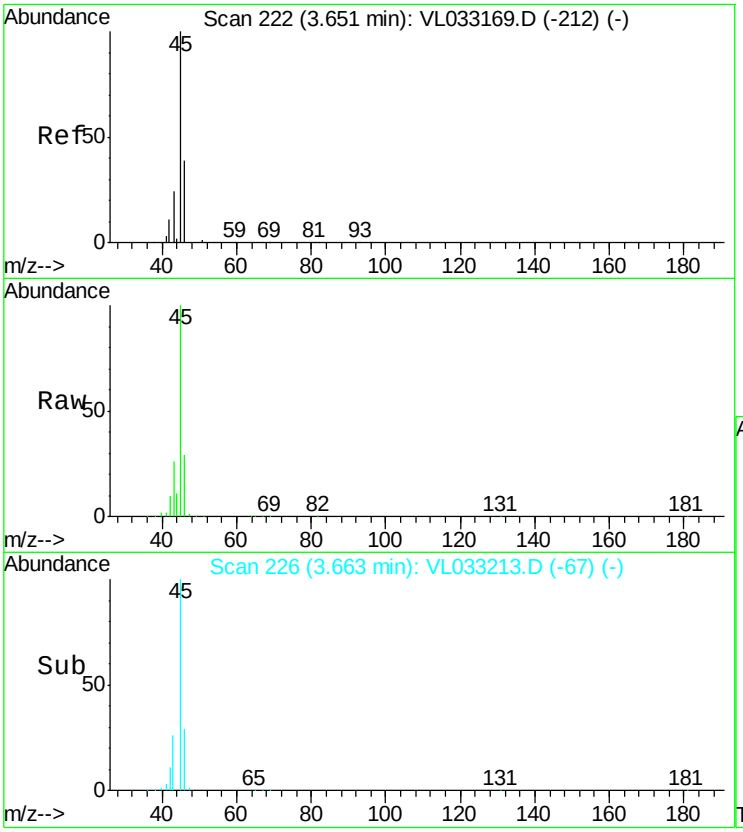


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.646 ppbv
RT: 4.55 min Scan# 503
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion:101 Resp: 273729

Ion	Ratio	Lower	Upper
101	100		
151	72.4	57.4	86.0



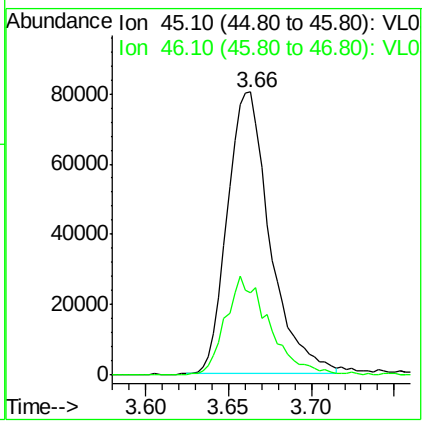


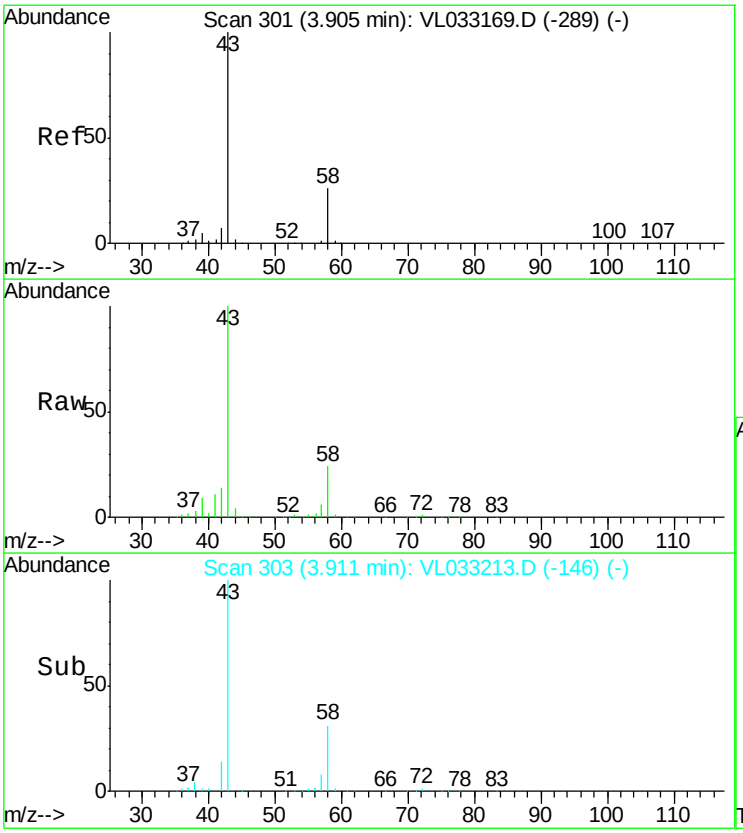
#13
Ethanol
Concen: 7.668 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion: 45 Resp: 143437

Ion	Ratio	Lower	Upper
45	100		
46	36.4	15.0	60.2

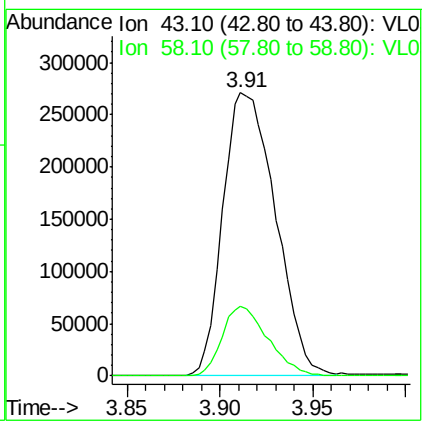


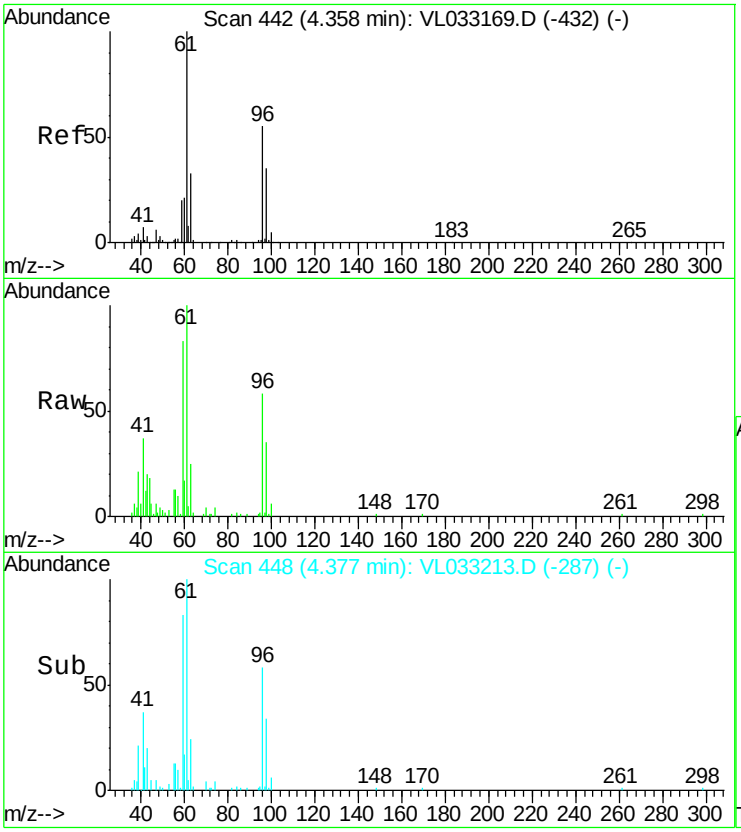


#15
Acetone
Concen: 4.888 ppbv
RT: 3.91 min Scan# 303
Delta R.T. 0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 43 Resp: 531134

Ion	Ratio	Lower	Upper
43	100		
58	21.7	21.1	31.7



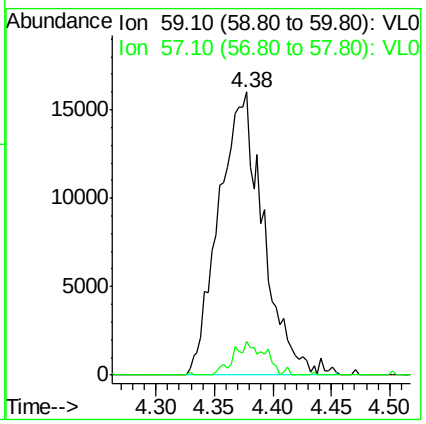


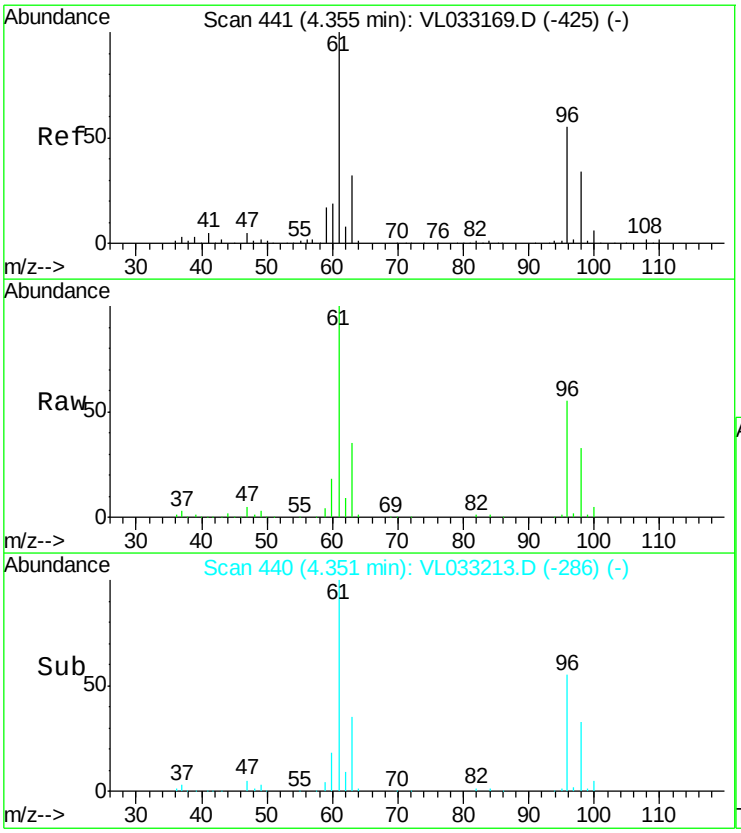
#17
tert-Butyl alcohol
Concen: 2.038 ppbv m
RT: 4.38 min Scan# 448
Delta R.T. 0.02 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion: 59 Resp: 42219

Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.6	11.4#

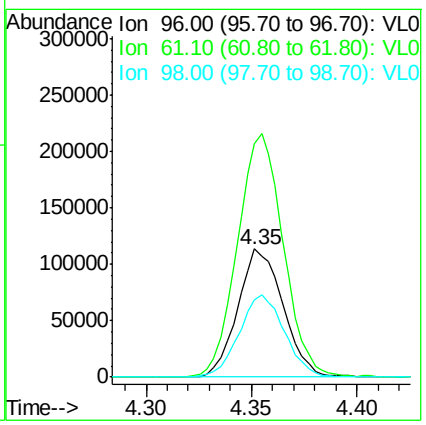


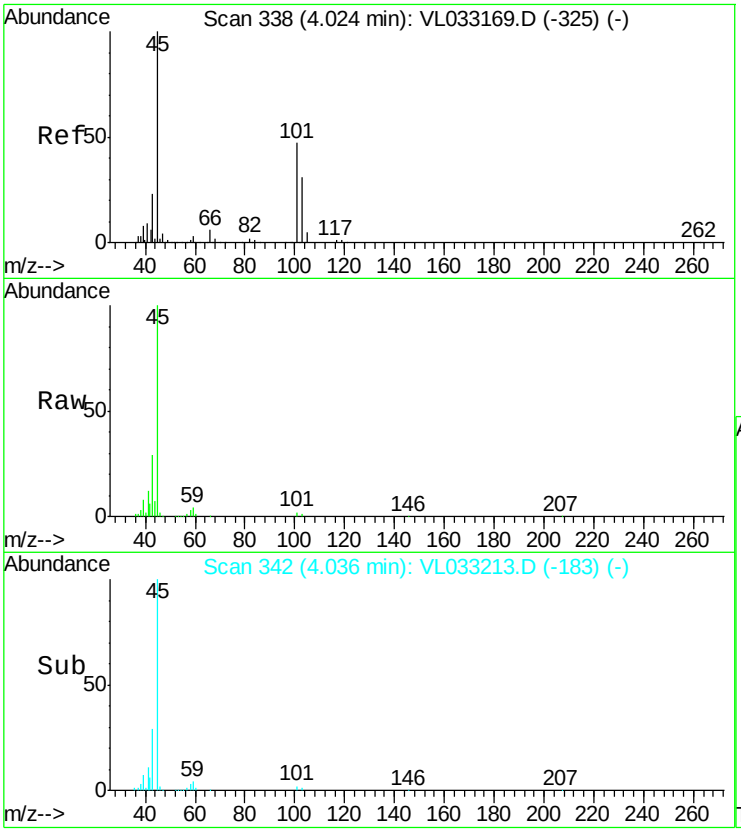


#18
1,1-Dichloroethene
Concen: 3.662 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 96 Resp: 169578

Ion	Ratio	Lower	Upper
96	100		
61	181.5	145.0	217.6
98	59.7	50.0	75.0



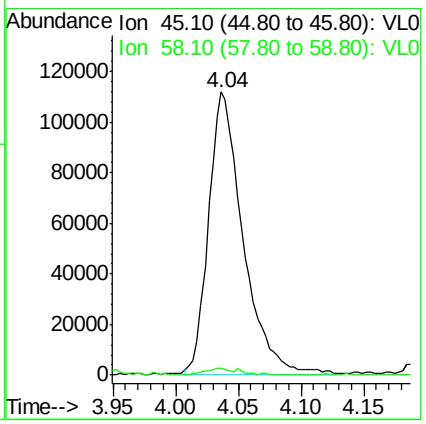


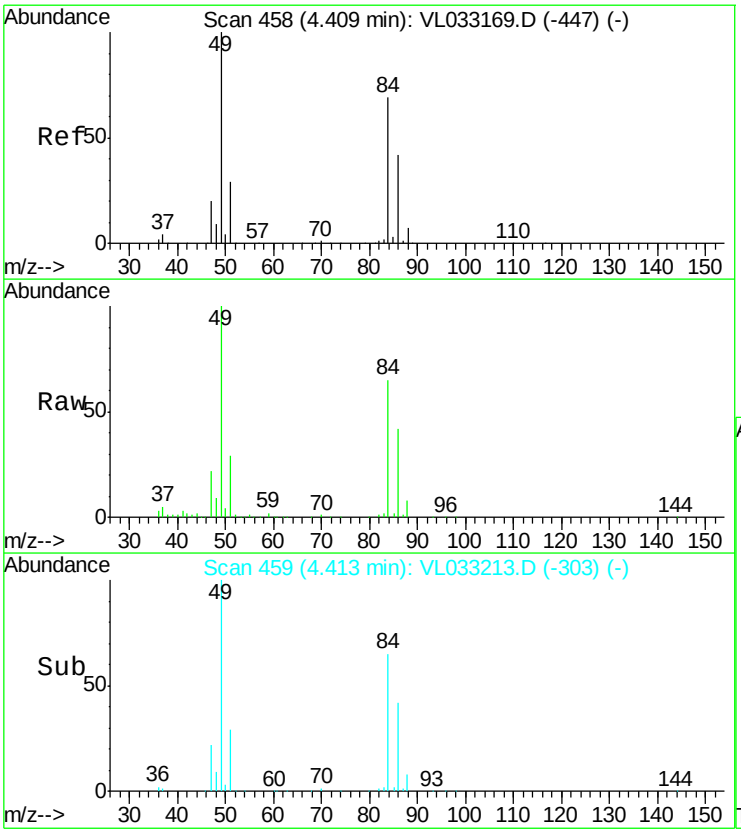
#19
Isopropyl Alcohol
Concen: 2.904 ppbv m
RT: 4.04 min Scan# 342
Delta R.T. 0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion: 45 Resp: 214039

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.5	2.3#

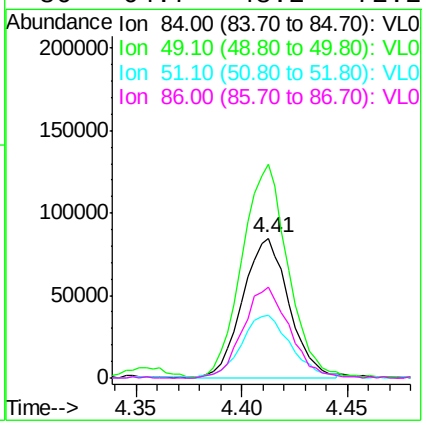


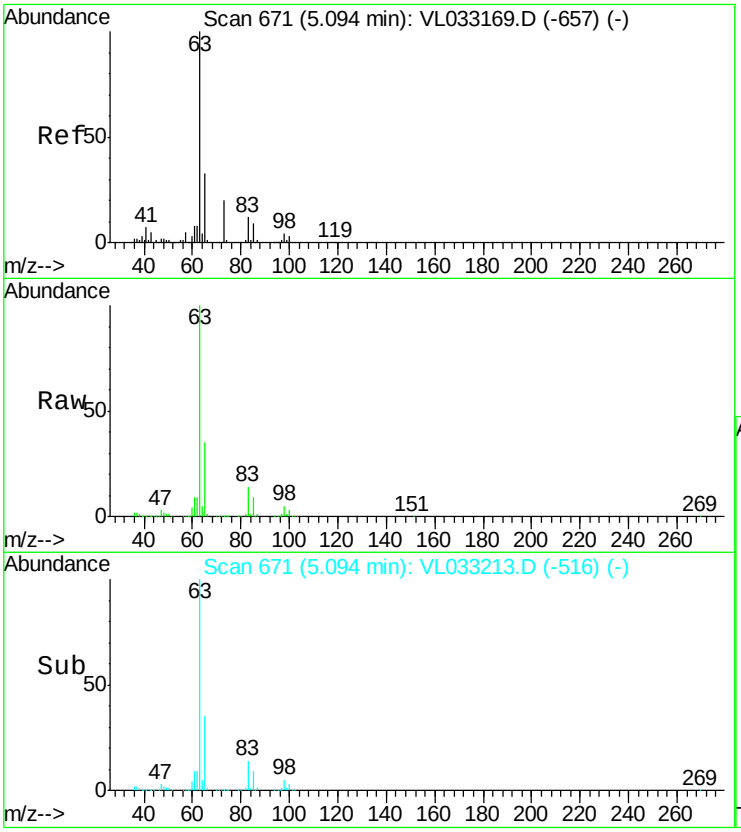


#20
Methylene Chloride
Concen: 3.014 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 84 Resp: 130279

Ion	Ratio	Lower	Upper
84	100		
49	151.8	115.8	173.8
51	44.4	33.0	49.6
86	64.7	48.2	72.2



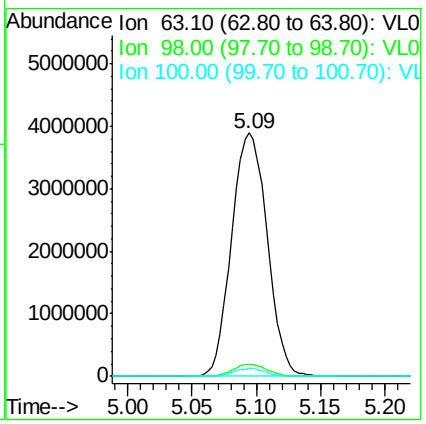


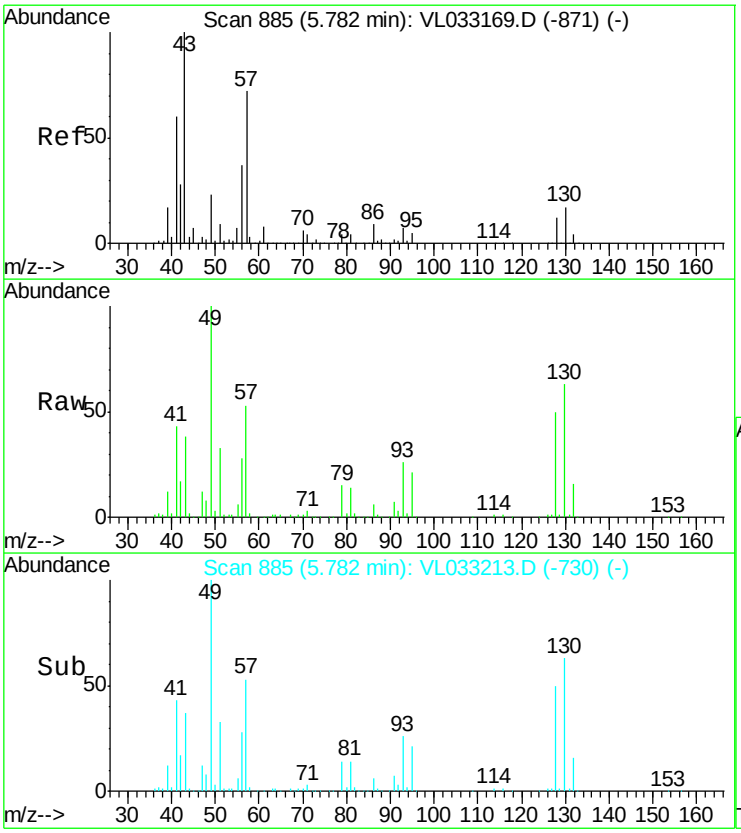
#24
1,1-Dichloroethane
Concen: 56.203 ppbv
RT: 5.09 min Scan# 671
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument :
MSVOA_L
ClientSampleId :
ZONE-G

Tgt Ion: 63 Resp: 7486220

Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.1	6.5
100	3.3	1.4	4.2

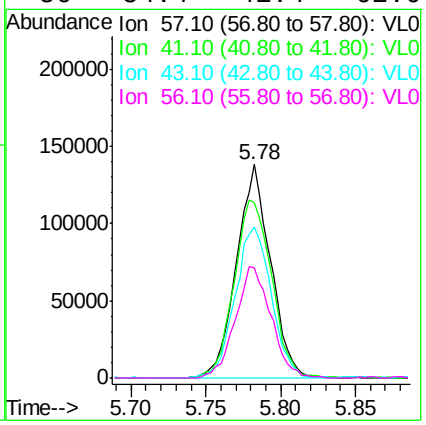


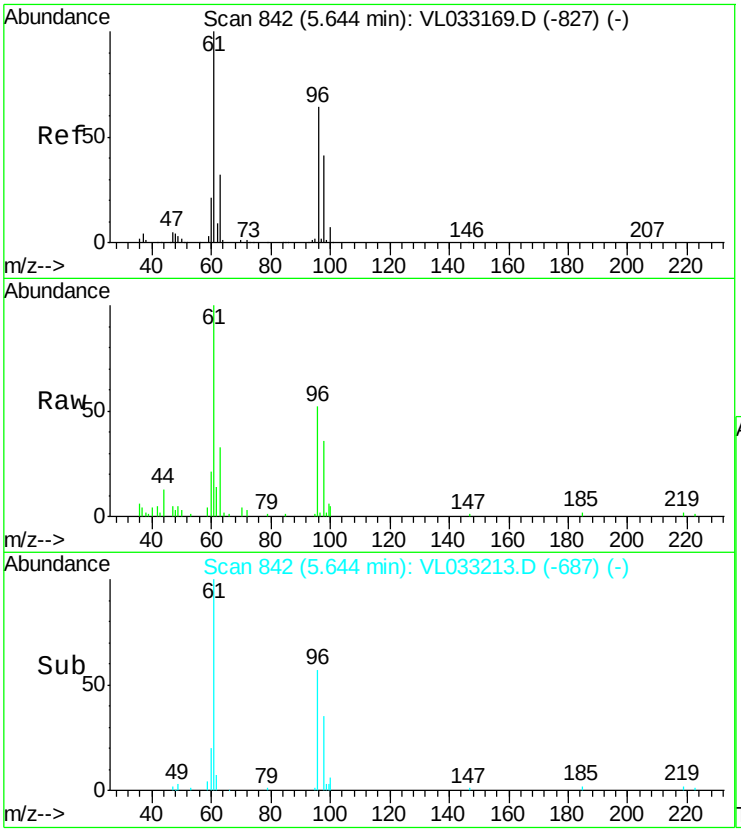


#26
Hexane
Concen: 1.912 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 57 Resp: 219242

Ion	Ratio	Lower	Upper
57	100		
41	92.0	69.4	104.2
43	75.6	176.7	265.1#
56	54.4	41.4	62.0



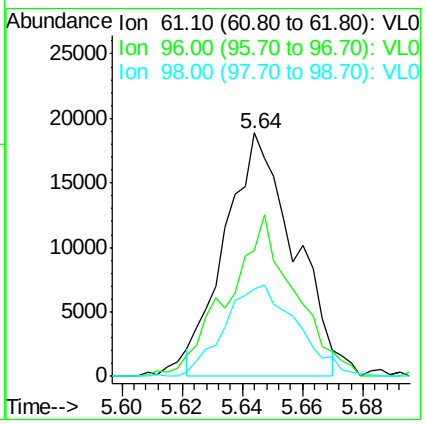


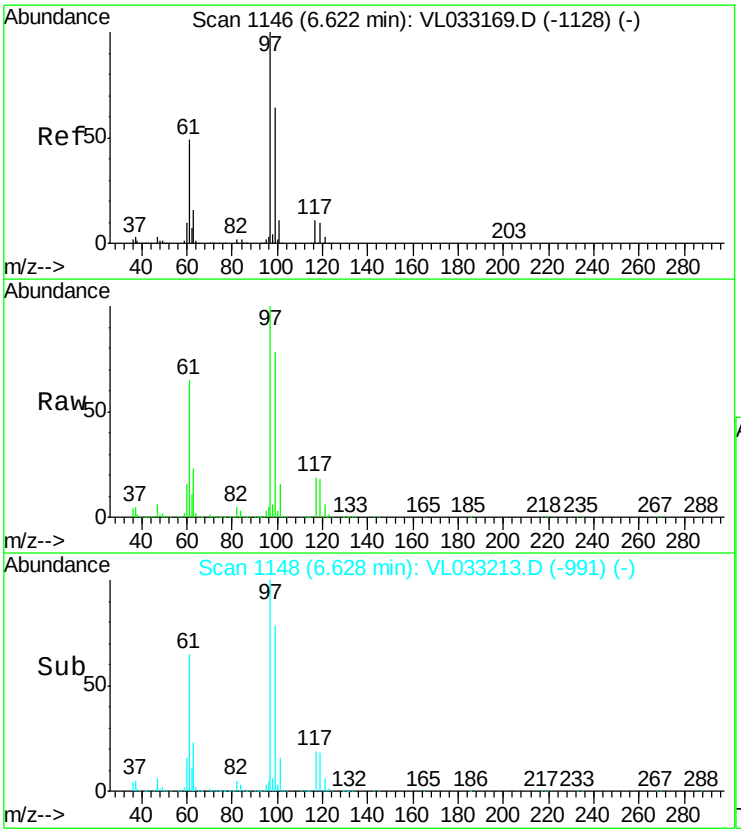
#31
cis-1,2-Dichloroethene
Concen: 0.258 ppbv m
RT: 5.64 min Scan# 842
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument :
MSVOA_L
ClientSampleId :
ZONE-G

Tgt Ion: 61 Resp: 29656

Ion	Ratio	Lower	Upper
61	100		
96	51.6	51.2	76.8
98	36.0	32.8	49.2

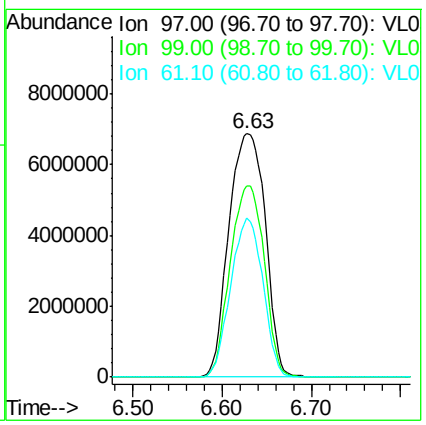


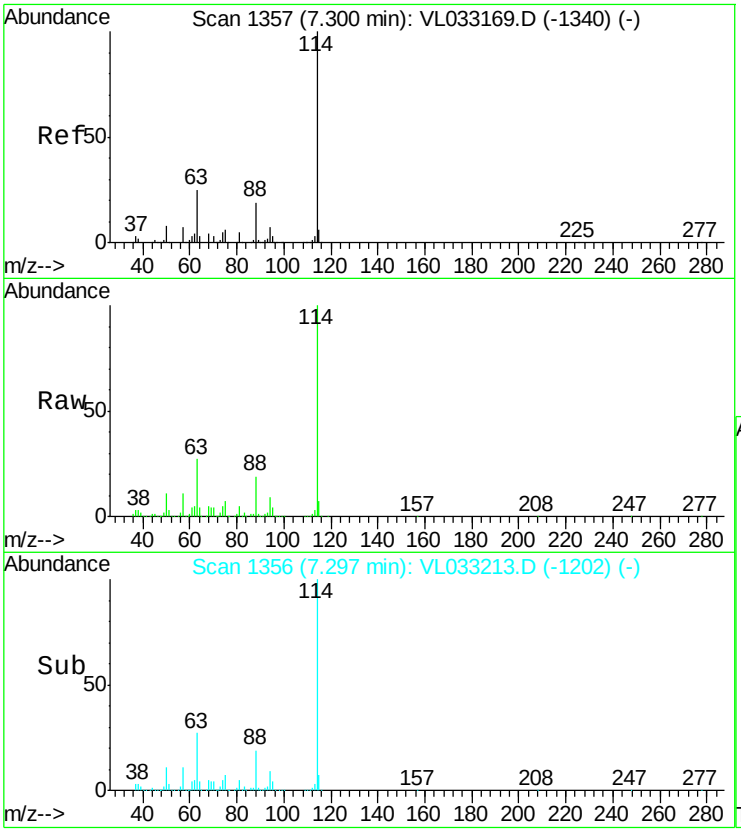


#32
1,1,1-Trichloroethane
Concen: 101.373 ppbv
RT: 6.63 min Scan# 1148
Delta R.T. 0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 97 Resp:19618276

Ion	Ratio	Lower	Upper
97	100		
99	73.2	51.4	77.2
61	57.6	38.9	58.3



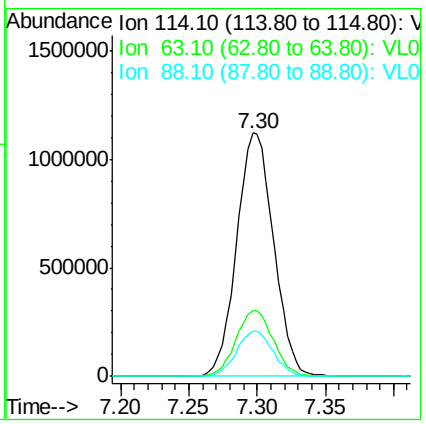


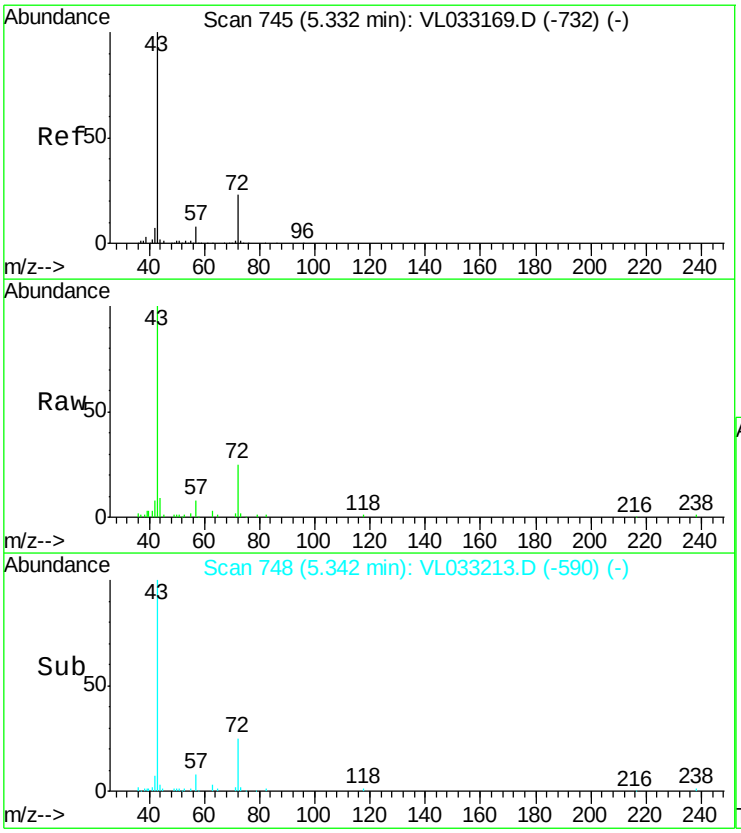
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion:114 Resp: 2103016

Ion	Ratio	Lower	Upper
114	100		
63	27.4	20.8	31.2
88	18.3	14.6	22.0

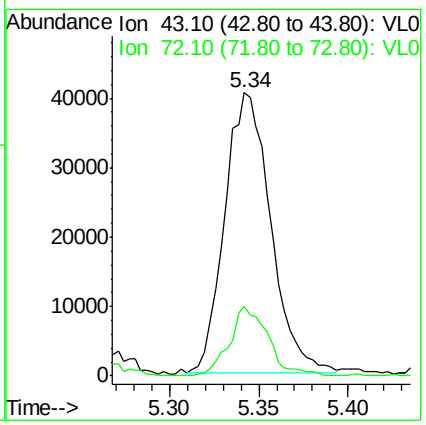


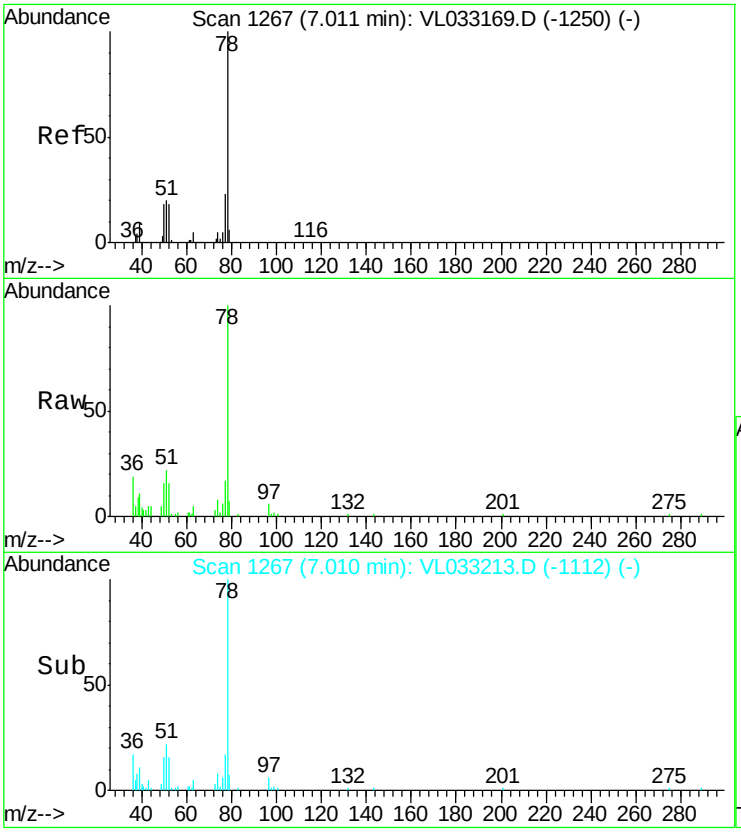


#34
2-Butanone
Concen: 0.542 ppbv
RT: 5.34 min Scan# 748
Delta R.T. 0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 43 Resp: 72316

Ion	Ratio	Lower	Upper
43	100		
72	20.9	17.8	26.6



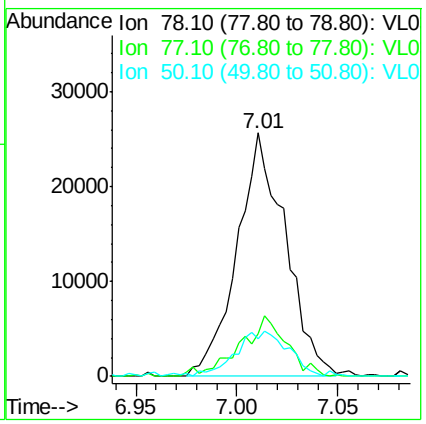


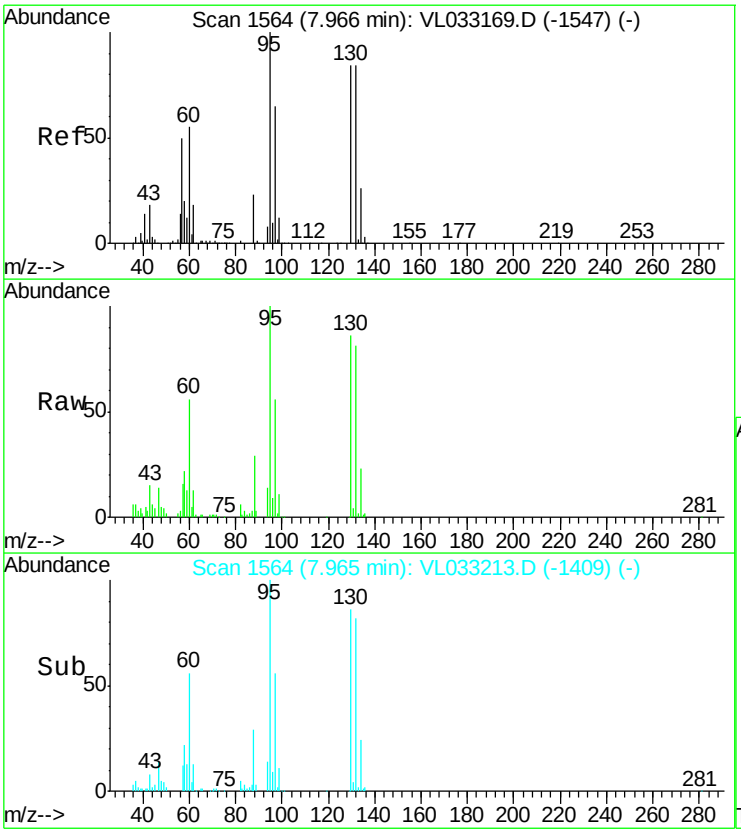
#36
Benzene
Concen: 0.202 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument :
MSVOA_L
ClientSampleId :
ZONE-G

Tgt Ion: 78 Resp: 43080

Ion	Ratio	Lower	Upper
78	100		
77	16.6	18.0	27.0#
50	14.9	14.2	21.2

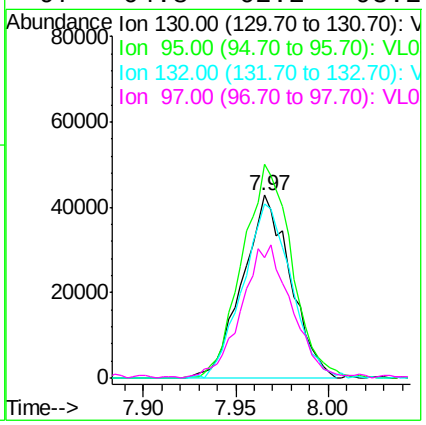


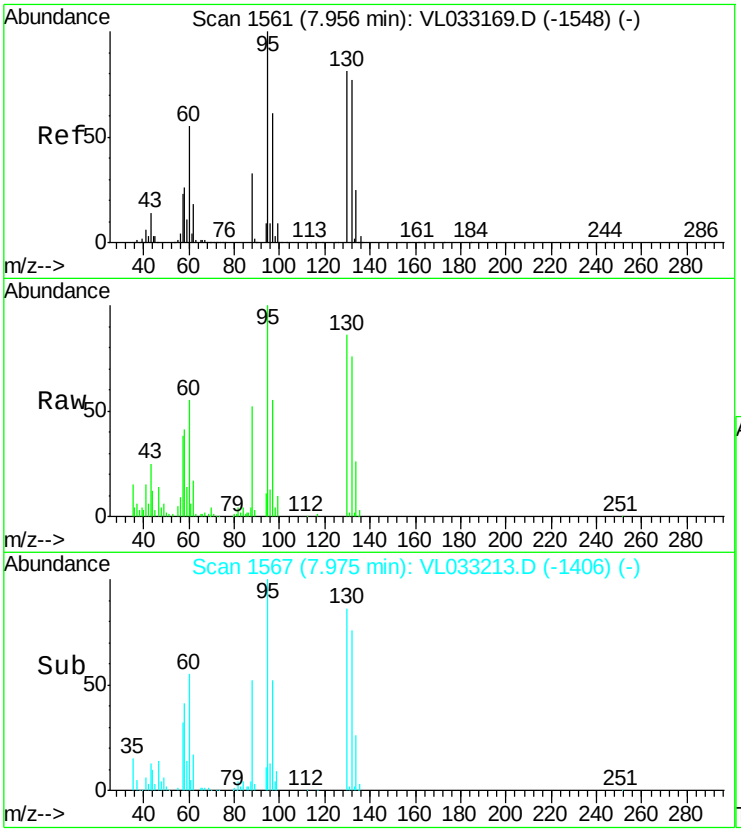


#38
Trichloroethene
Concen: 0.844 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion:130 Resp: 77019

Ion	Ratio	Lower	Upper
130	100		
95	116.1	95.5	143.3
132	97.9	80.0	120.0
97	64.8	62.2	93.2



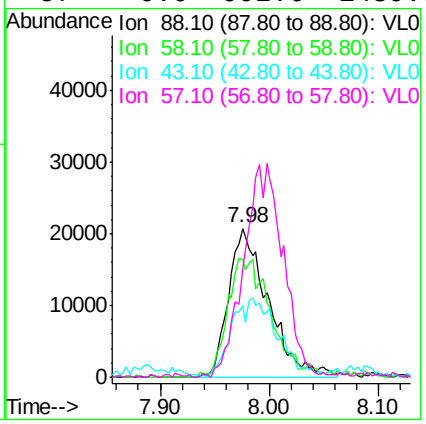


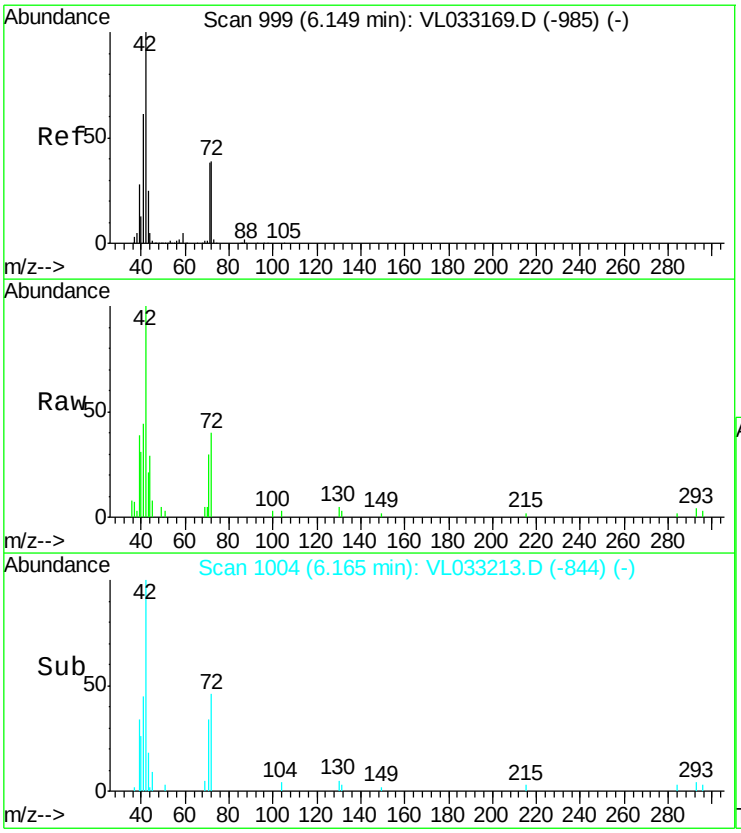
#40
1,4-Dioxane
Concen: 1.718 ppbv m
RT: 7.98 min Scan# 1567
Delta R.T. 0.02 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion: 88 Resp: 52560

Ion	Ratio	Lower	Upper
88	100		
58	0.0	106.6	160.0#
43	0.0	220.2	330.2#
57	0.0	992.6	1489.0#

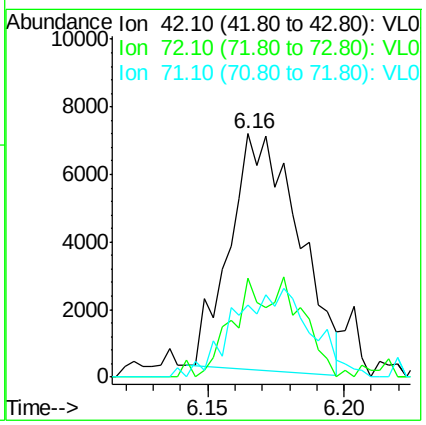


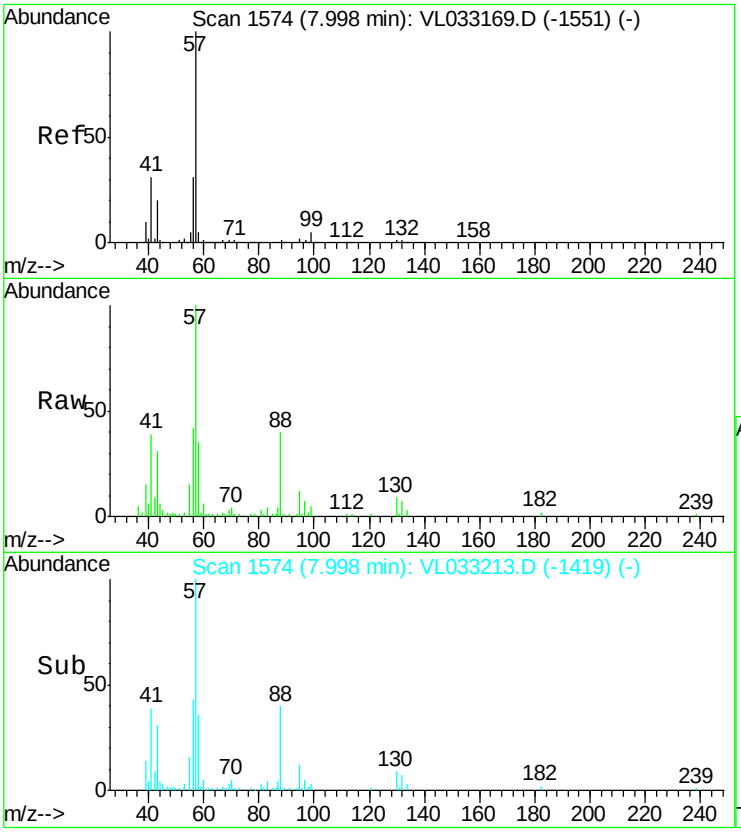


#41
Tetrahydrofuran
Concen: 0.149 ppbv
RT: 6.16 min Scan# 1004
Delta R.T. 0.02 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 42 Resp: 12311

Ion	Ratio	Lower	Upper
42	100		
72	40.5	31.6	47.4
71	43.1	30.3	45.5



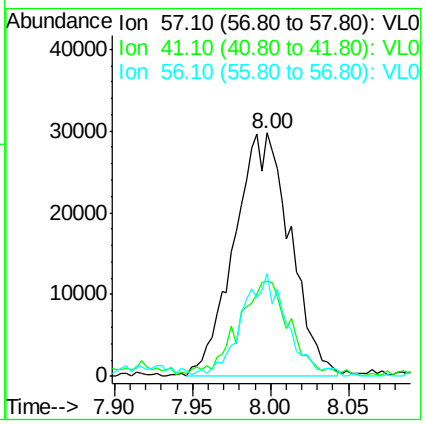


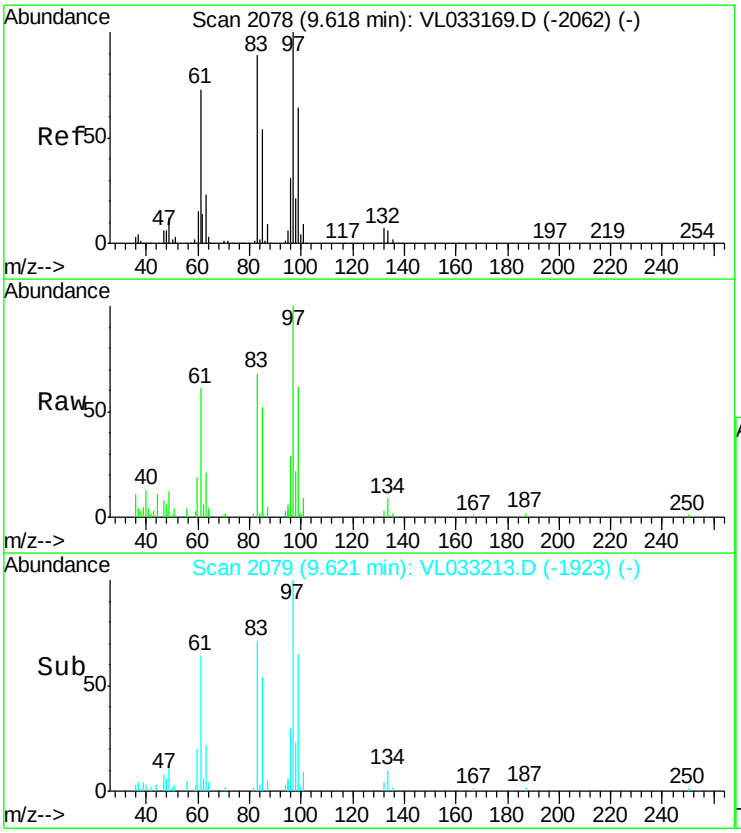
#44
2,2,4-Trimethylpentane
Concen: 0.206 ppbv m
RT: 8.00 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion: 57 Resp: 74444

Ion	Ratio	Lower	Upper
57	100		
41	36.2	25.1	37.7
56	34.1	24.5	36.7

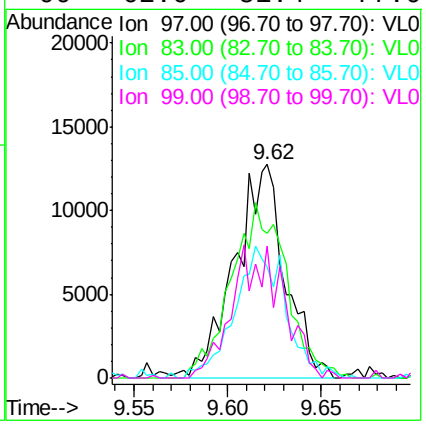


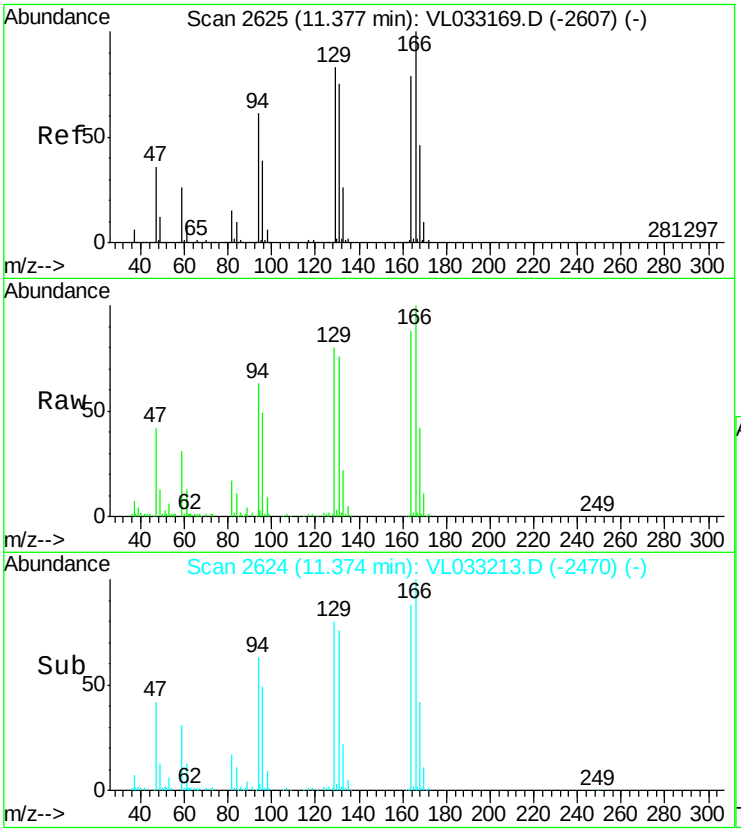


#47
1,1,2-Trichloroethane
Concen: 0.272 ppbv m
RT: 9.62 min Scan# 2079
Delta R.T. 0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 97 Resp: 23793

Ion	Ratio	Lower	Upper
97	100		
83	68.0	71.4	107.2#
85	52.2	43.5	65.3
99	62.0	51.4	77.0



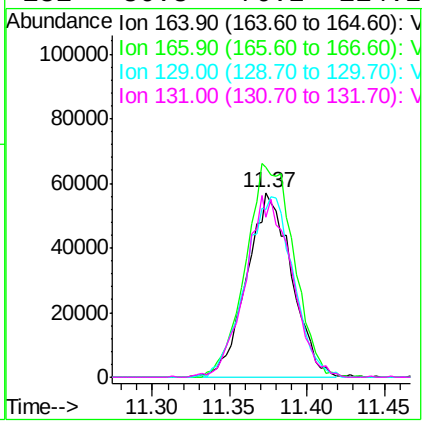


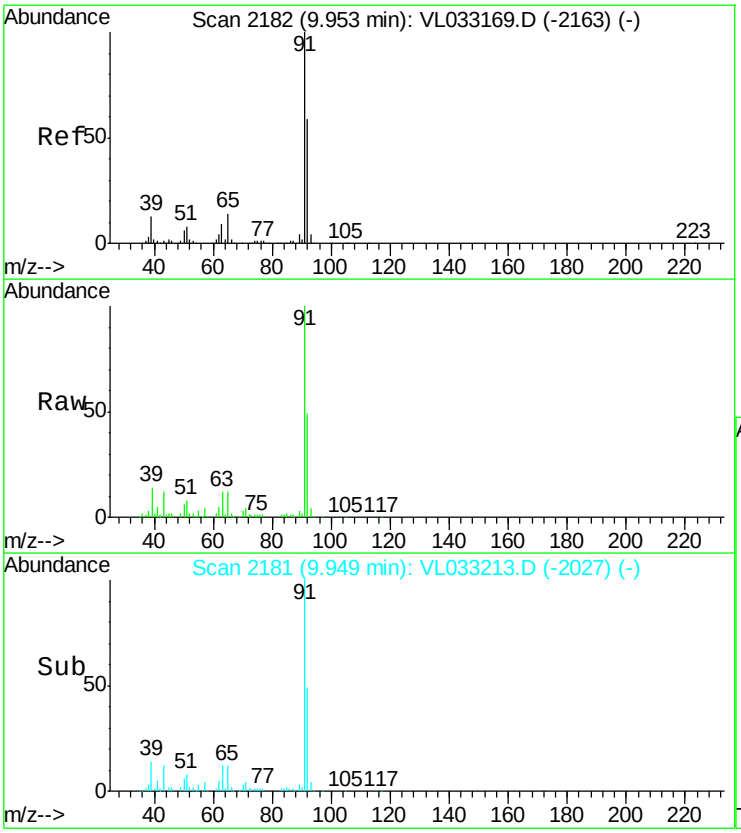
#52
Tetrachloroethene
Concen: 1.409 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion:164 Resp: 115414

Ion	Ratio	Lower	Upper
164	100		
166	113.7	100.9	151.3
129	90.8	83.9	125.9
131	86.8	76.2	114.2

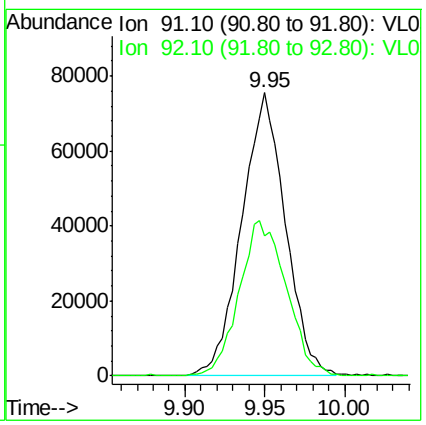


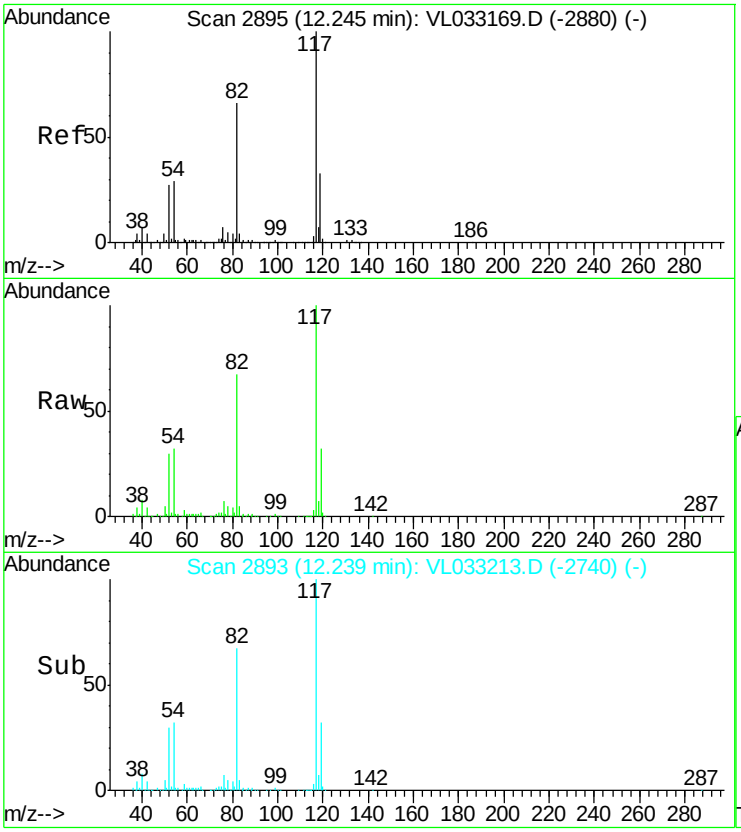


#53
Toluene
Concen: 0.561 ppbv
RT: 9.95 min Scan# 2181
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 91 Resp: 141466

Ion	Ratio	Lower	Upper
91	100		
92	59.2	48.0	72.0



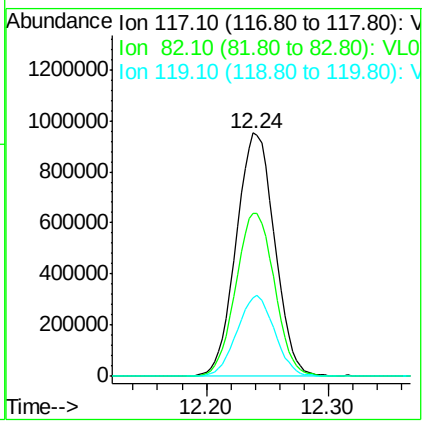


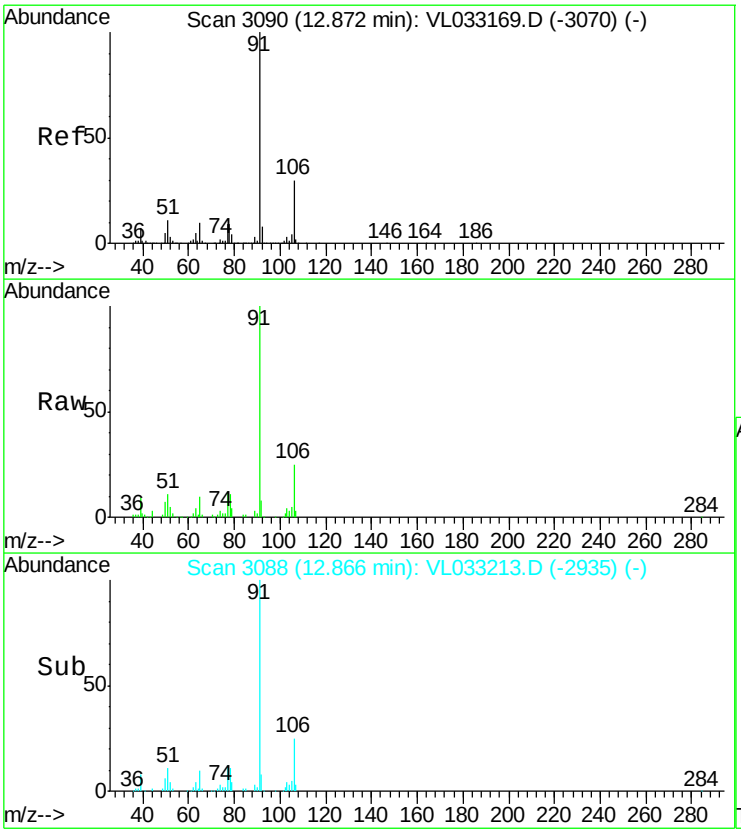
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion:117 Resp: 2074358

Ion	Ratio	Lower	Upper
117	100		
82	67.5	49.5	74.3
119	32.4	24.4	36.6

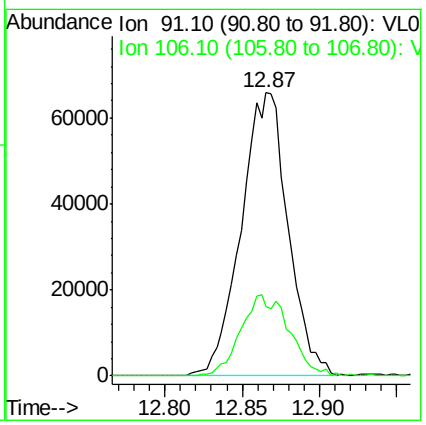


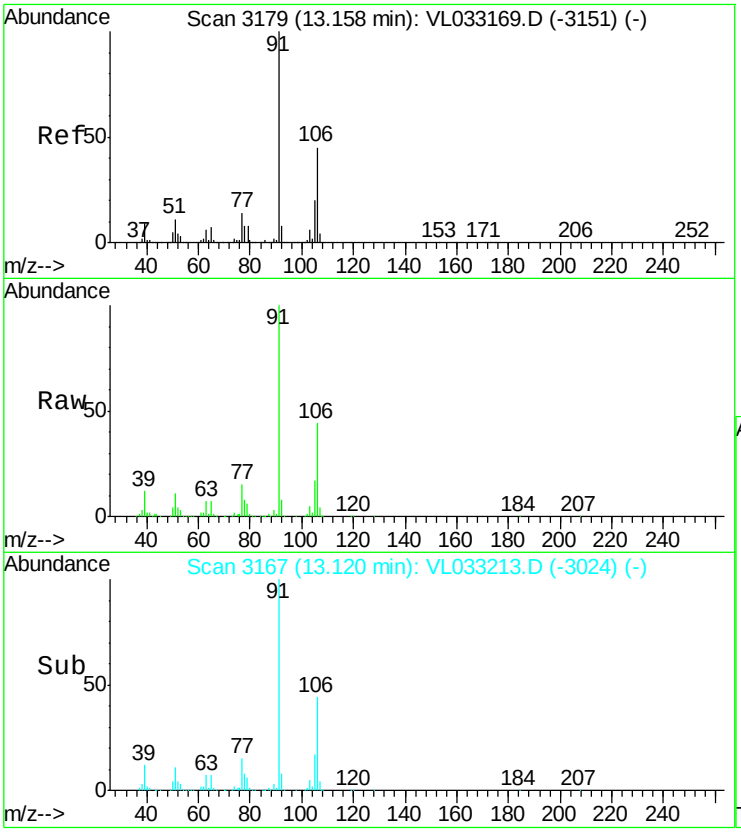


#58
Ethyl Benzene
Concen: 0.414 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 91 Resp: 138981

Ion	Ratio	Lower	Upper
91	100		
106	24.7	23.8	35.8



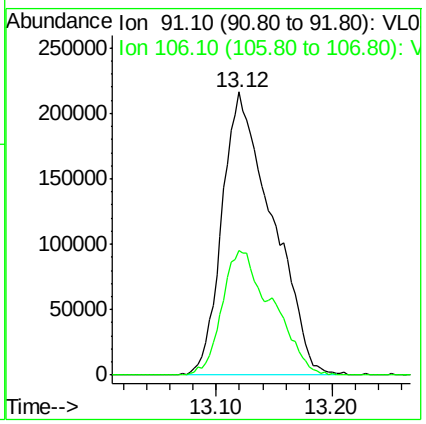


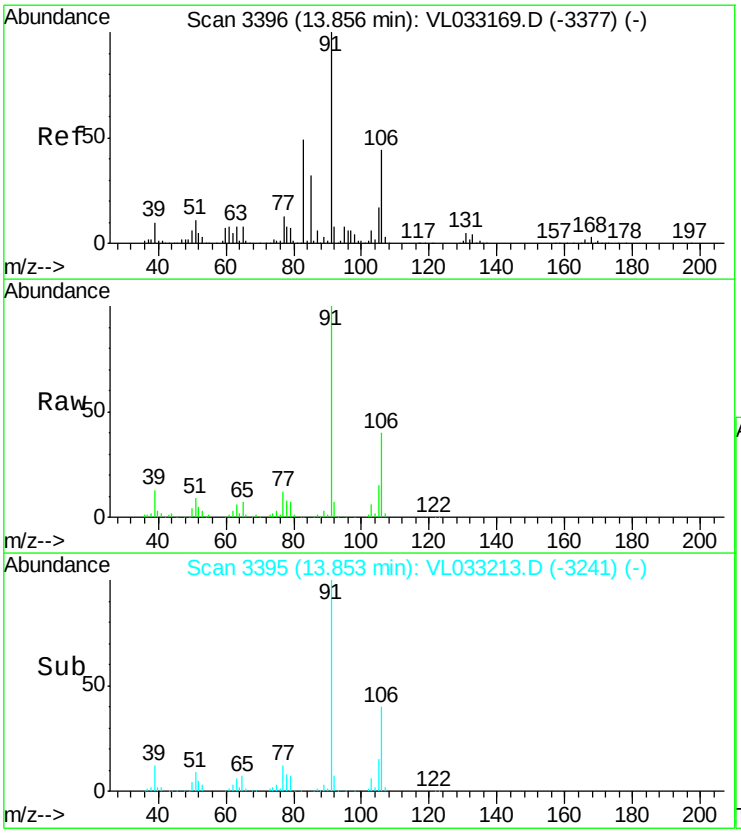
#59
m/p-Xylene
Concen: 2.294 ppbv
RT: 13.12 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion: 91 Resp: 642593

Ion	Ratio	Lower	Upper
91	100		
106	44.6	0.0	0.0#

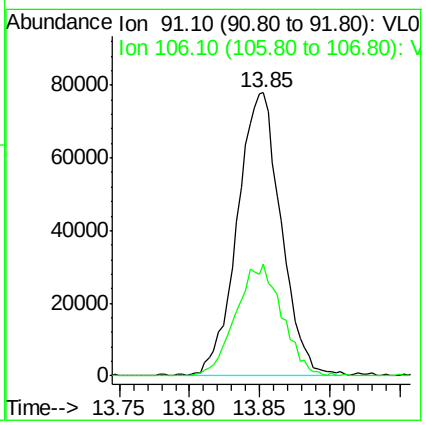


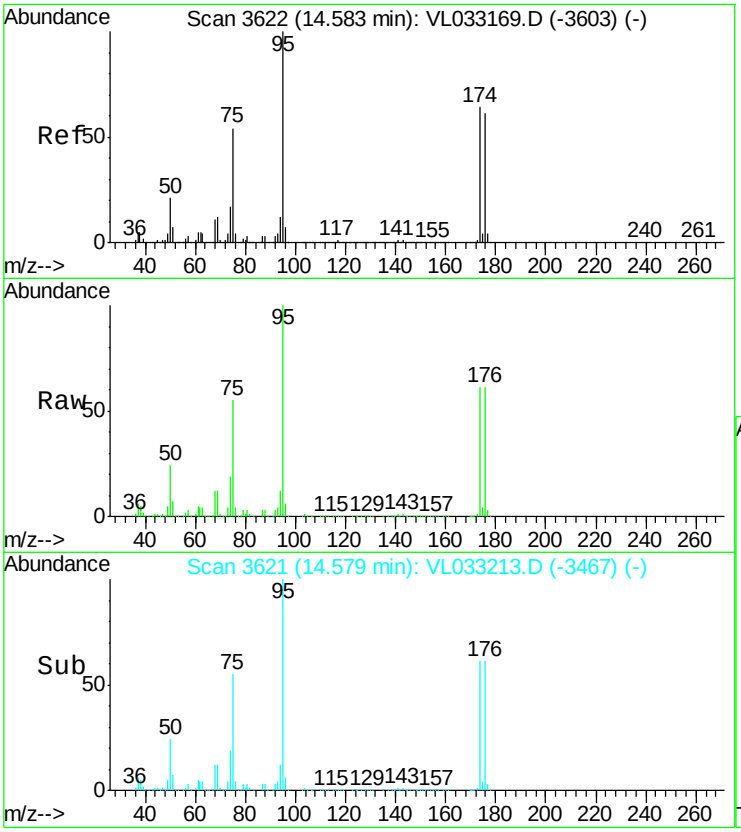


#60
o-Xylene
Concen: 0.615 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion: 91 Resp: 167549

Ion	Ratio	Lower	Upper
91	100		
106	42.0	21.8	65.3



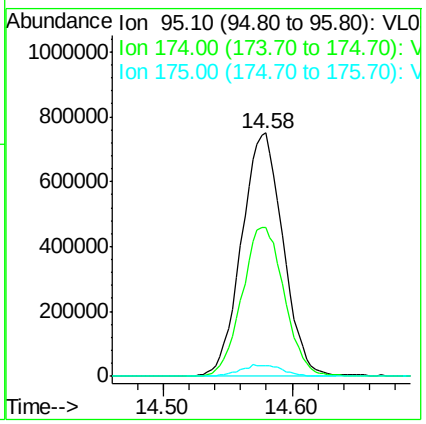


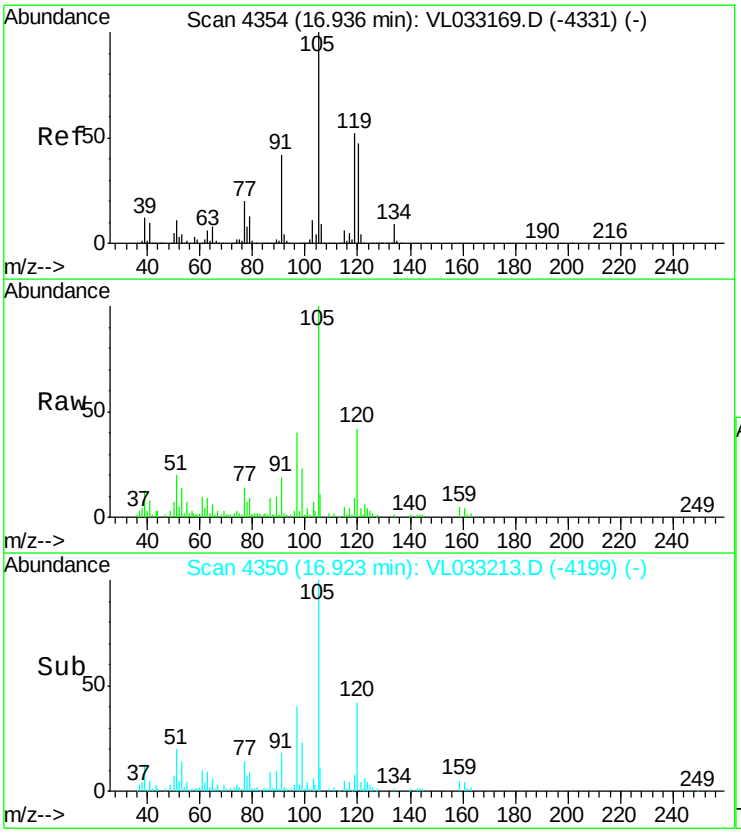
#68
1-Bromo-4-Fluorobenzene
Concen: 10.499 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.00 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Instrument : MSVOA_L
ClientSampleId : ZONE-G

Tgt Ion: 95 Resp: 1677308

Ion	Ratio	Lower	Upper
95	100		
174	62.8	51.2	76.8
175	4.8	3.8	5.6





#74
1,2,4-Trimethylbenzene
Concen: 0.330 ppbv
RT: 16.92 min Scan# 4350
Delta R.T. -0.01 min
Lab File: VL033213.D
Acq: 15 Feb 2019 00:53

Tgt Ion:105 Resp: 102948

Ion	Ratio	Lower	Upper
105	100		
120	41.9	37.9	56.9
91	18.7	34.0	51.0#
77	14.4	15.7	23.5#