Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
Data File : VL033211.D
Acq On : 14 Feb 2019 23:34
Operator : SY/AP
Sample : K1483-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 01:13:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 20 06:00:52 2019
QLast Update : Wed Feb 20 06:00:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.77	49	948624	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.30	114	2100110	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.24	117	2074311	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.58	95	1704699	10.55	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.07	85	25081	0.138	ppbv		96
3) Chlorodifluoromethane	3.01	51	31761	0.278	ppbv		100
4) Chloromethane	3.17	50	7246m	0.120	ppbv		
7) Chloroethane	3.60	64	239374	11.627	ppbv		97
10) Heptane	8.25	43	28461	0.170	ppbv		96
11) Trichlorofluoromethane	4.00	101	171509	1.168	ppbv		95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	515660	5.067	ppbv		98
13) Ethanol	3.65	45	41167m	2.195	ppbv		
15) Acetone	3.91	43	623527	5.834	ppbv	#	87
17) tert-Butyl alcohol	4.36	59	58685	2.859	ppbv		96
18) 1,1-Dichloroethene	4.35	96	316172	6.941	ppbv		98
19) Isopropyl Alcohol	4.03	45	281427m	3.883	ppbv		
20) Methylene Chloride	4.41	84	86442	2.033	ppbv		94
24) 1,1-Dichloroethane	5.09	63	10354517	79.032	ppbv		97
26) Hexane	5.78	57	74617	0.661	ppbv	#	41
29) Chloroform	5.85	83	39012	0.226	ppbv		94
31) cis-1,2-Dichloroethene	5.65	61	36288m	0.321	ppbv		
32) 1,1,1-Trichloroethane	6.63	97	24135639	126.794	ppbv	#	83
34) 2-Butanone	5.35	43	37623m	0.282	ppbv		
36) Benzene	7.02	78	39001	0.183	ppbv		96
38) Trichloroethene	7.97	130	107899	1.186	ppbv	#	86
40) 1,4-Dioxane	7.97	88	83524m	2.799	ppbv		
44) 2,2,4-Trimethylpentane	8.00	57	90037	0.250	ppbv		96
47) 1,1,2-Trichloroethane	9.62	97	37181m	0.427	ppbv		
52) Tetrachloroethene	11.38	164	178458	2.182	ppbv		95
53) Toluene	9.95	91	134629	0.534	ppbv		98
58) Ethyl Benzene	12.87	91	162277m	0.477	ppbv		
59) m/p-Xylene	13.12	91	757562	2.675	ppbv		97
60) o-Xylene	13.85	91	195977	0.710	ppbv		99
74) 1,2,4-Trimethylbenzene	16.92	105	109204m	0.346	ppbv		

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

Quantitation Report (QT Reviewed)

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Acq On : 14 Feb 2019 23:34
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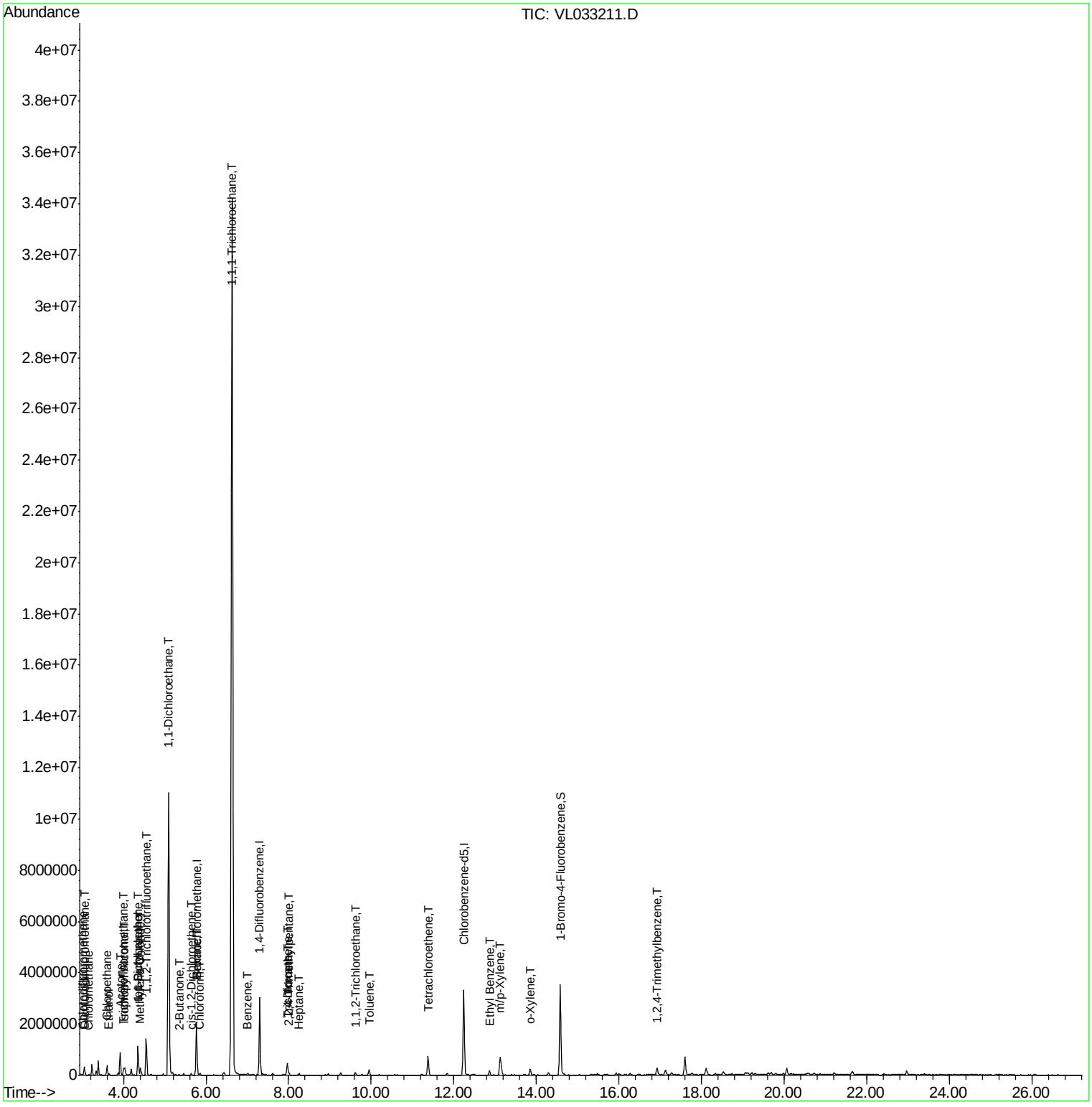
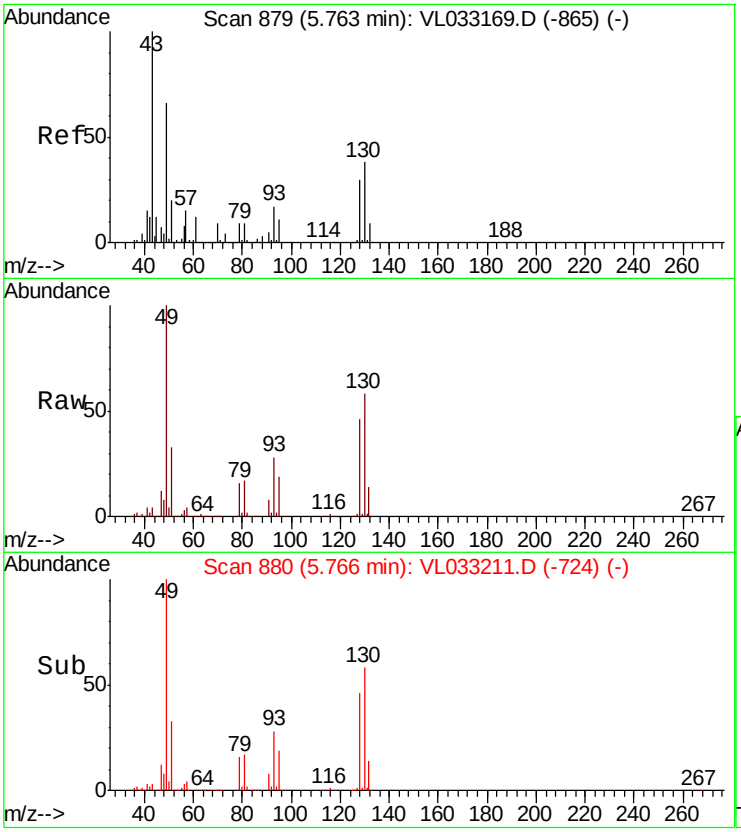
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 01:13:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 20 06:00:52 2019
QLast Update : Wed Feb 20 06:00:52 2019
Response via : Initial Calibration

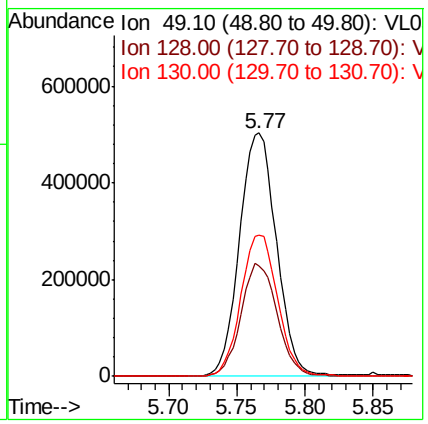


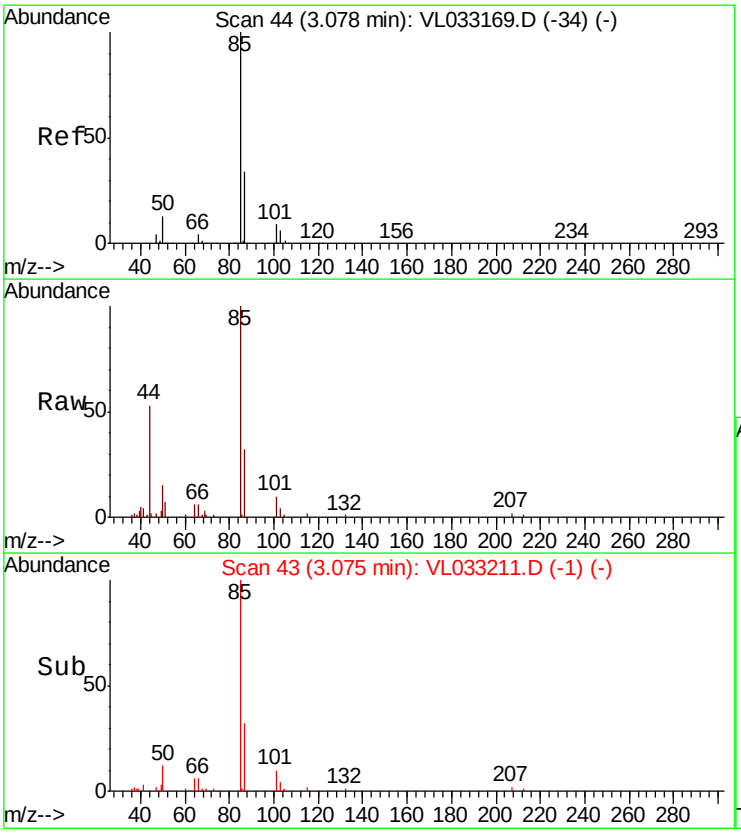


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 49 Resp: 948624

Ion	Ratio	Lower	Upper
49	100		
128	45.7	23.6	71.0
130	58.1	30.3	91.0

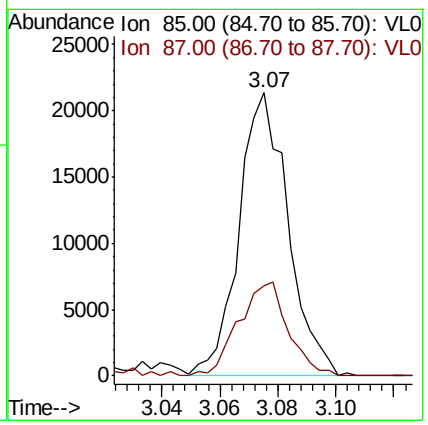


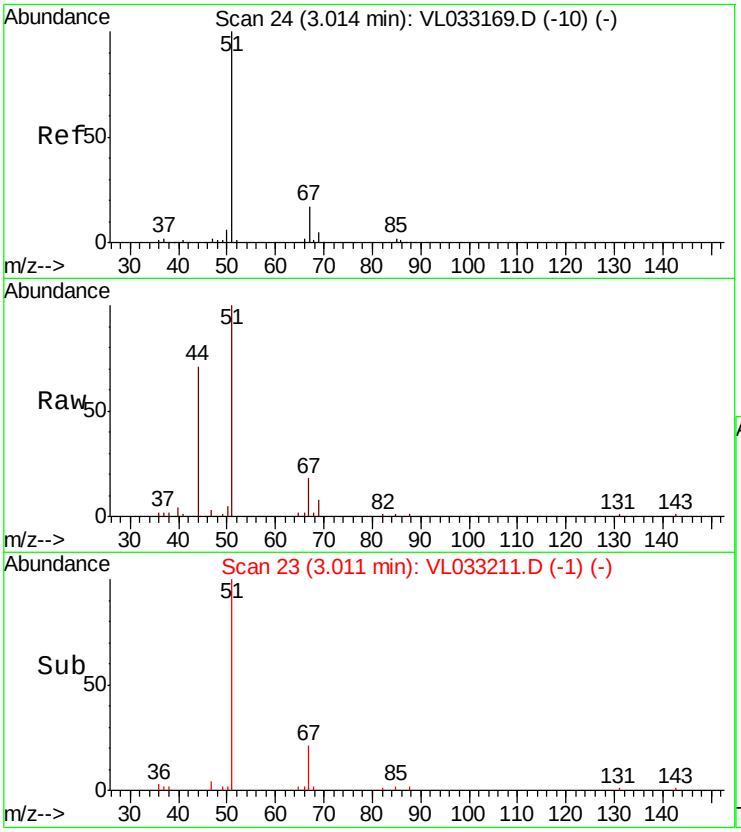


#2
Dichlorodifluoromethane
Concen: 0.138 ppbv
RT: 3.07 min Scan# 43
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 85 Resp: 25081

Ion	Ratio	Lower	Upper
85	100		
87	31.9	27.4	41.2

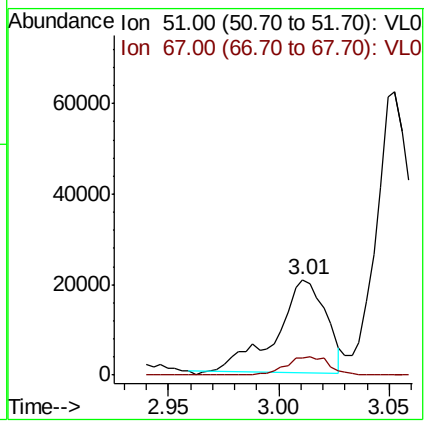


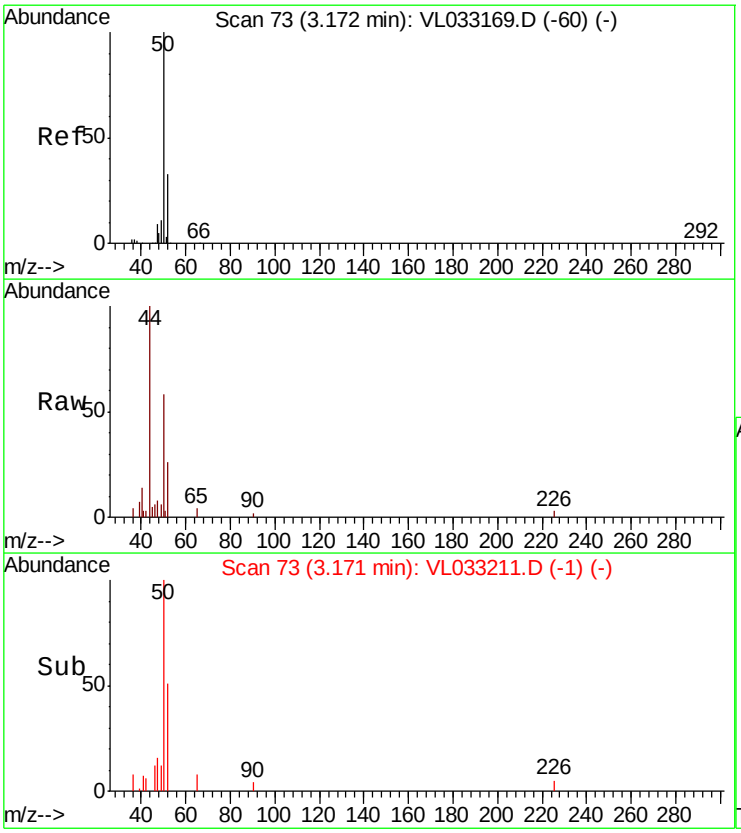


#3
Chlorodifluoromethane
Concen: 0.278 ppbv
RT: 3.01 min Scan# 23
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 51 Resp: 31761

Ion	Ratio	Lower	Upper
51	100		
67	17.7	14.0	21.0

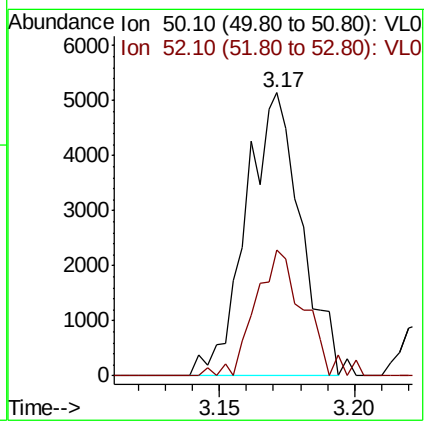


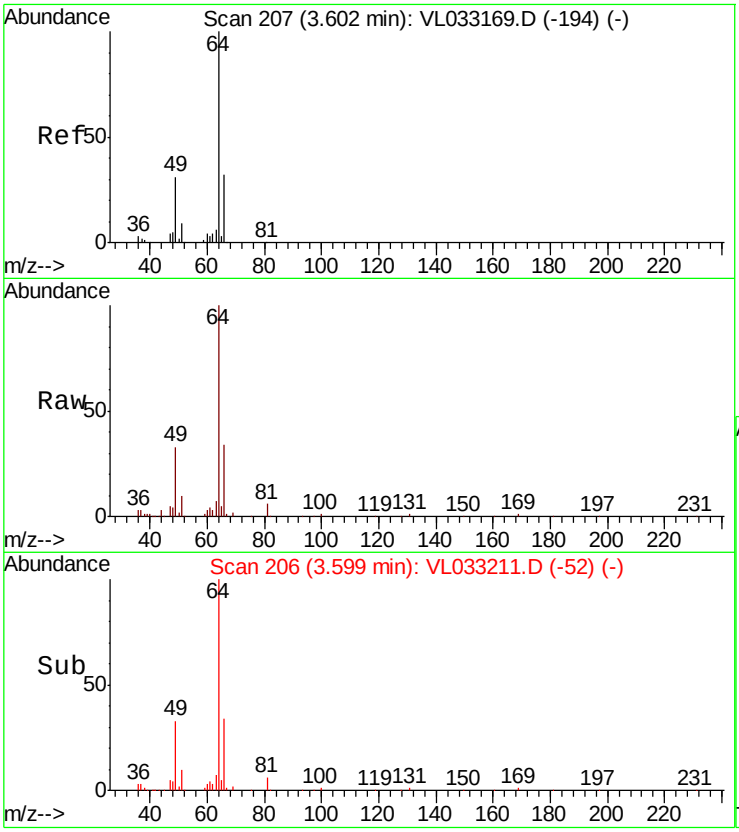


#4
Chloromethane
Concen: 0.120 ppbv m
RT: 3.17 min Scan# 73
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 50 Resp: 7246

Ion	Ratio	Lower	Upper
50	100		
52	44.6	26.5	39.7#

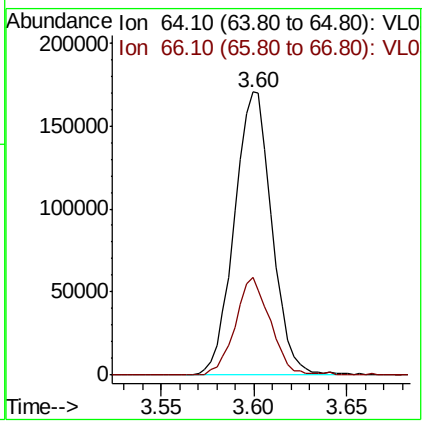


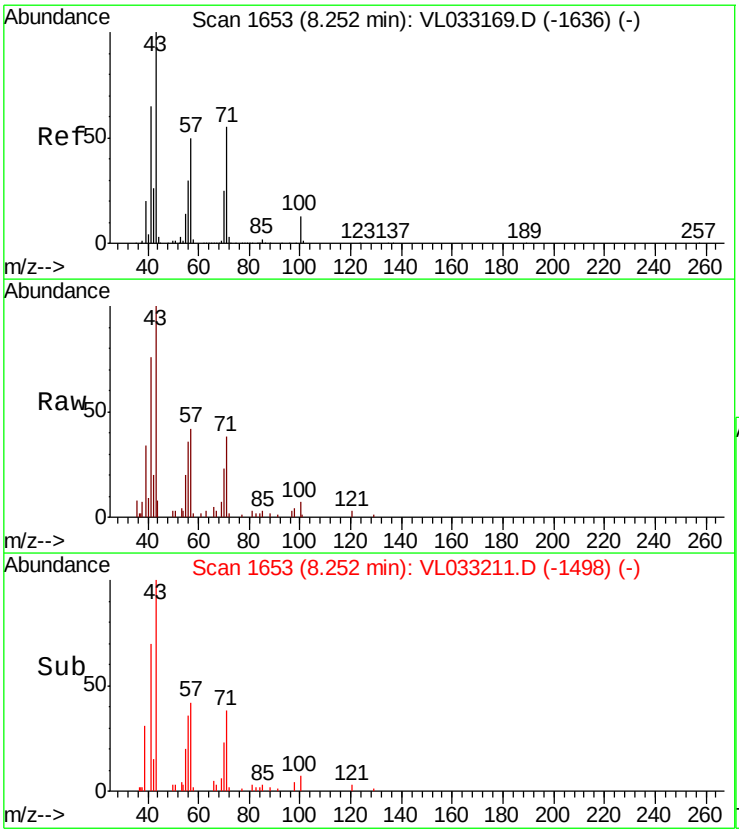


#7
Chloroethane
Concen: 11.627 ppbv
RT: 3.60 min Scan# 206
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 64 Resp: 239374

Ion	Ratio	Lower	Upper
64	100		
66	34.5	26.0	39.0

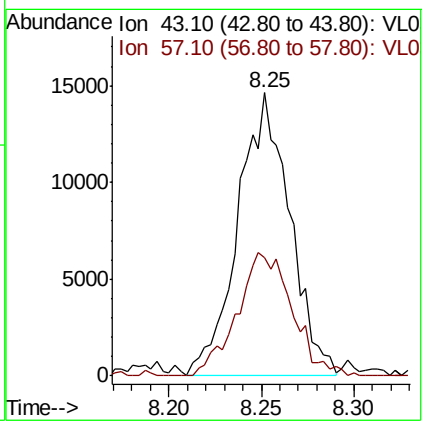


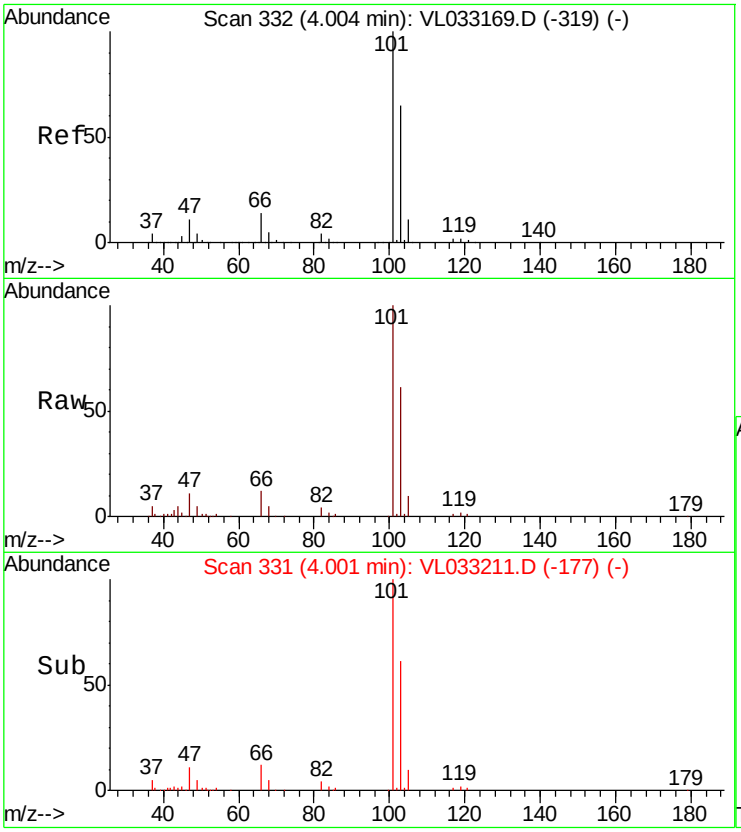


#10
Heptane
Concen: 0.170 ppbv
RT: 8.25 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 43 Resp: 28461

Ion	Ratio	Lower	Upper
43	100		
57	46.5	39.5	59.3

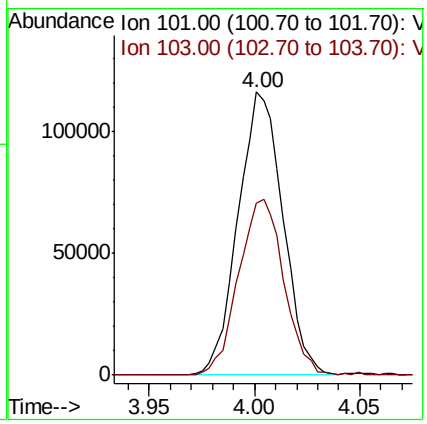


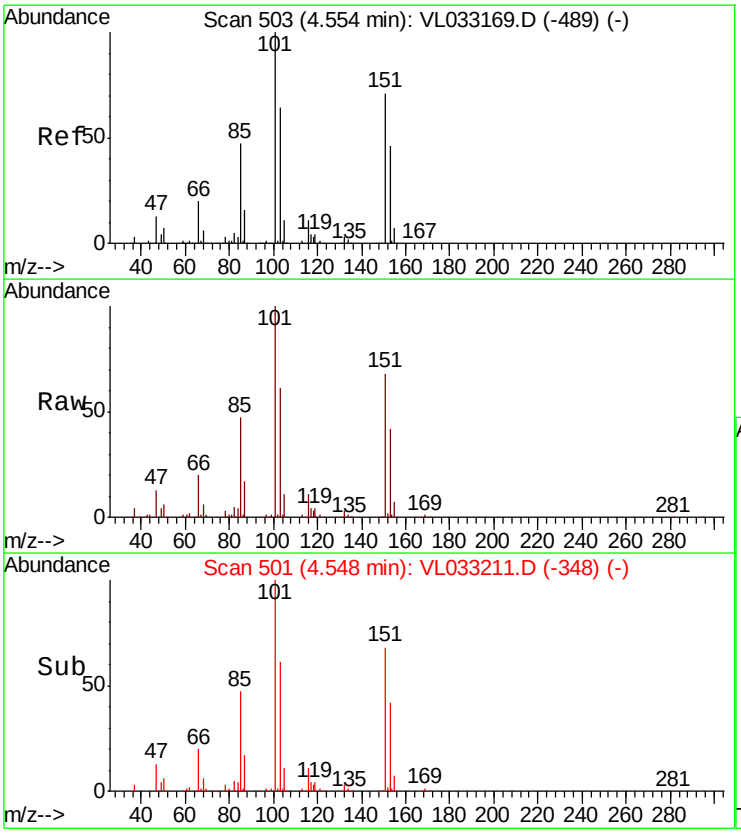


#11
Trichlorofluoromethane
Concen: 1.168 ppbv
RT: 4.00 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion:101 Resp: 171509

Ion	Ratio	Lower	Upper
101	100		
103	60.4	51.7	77.5

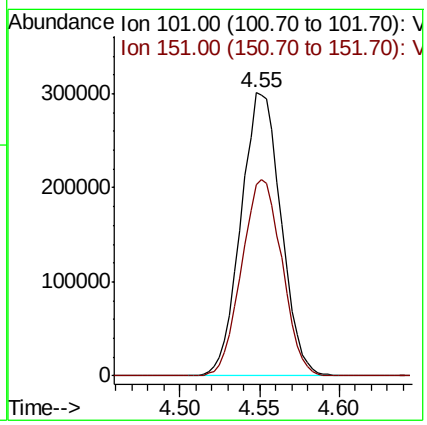


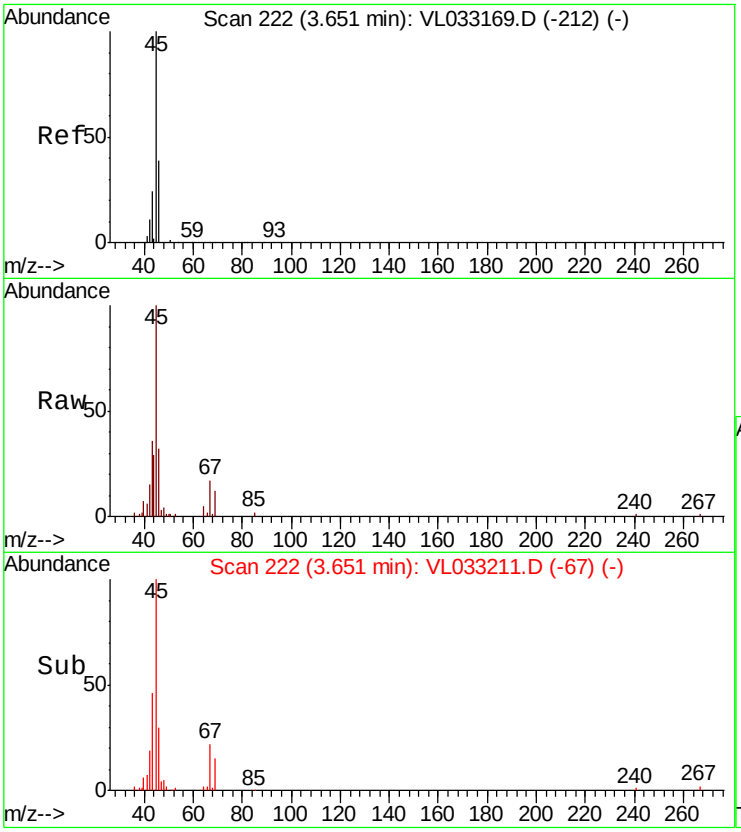


#12
1,1,2-Trichlorotrifluoroethane
Concen: 5.067 ppbv
RT: 4.55 min Scan# 501
Delta R.T. -0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion:101 Resp: 515660

Ion	Ratio	Lower	Upper
101	100		
151	69.9	57.4	86.0

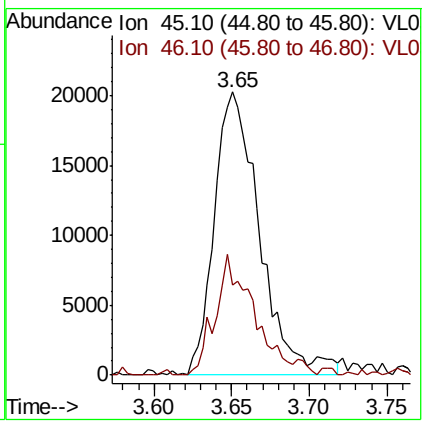


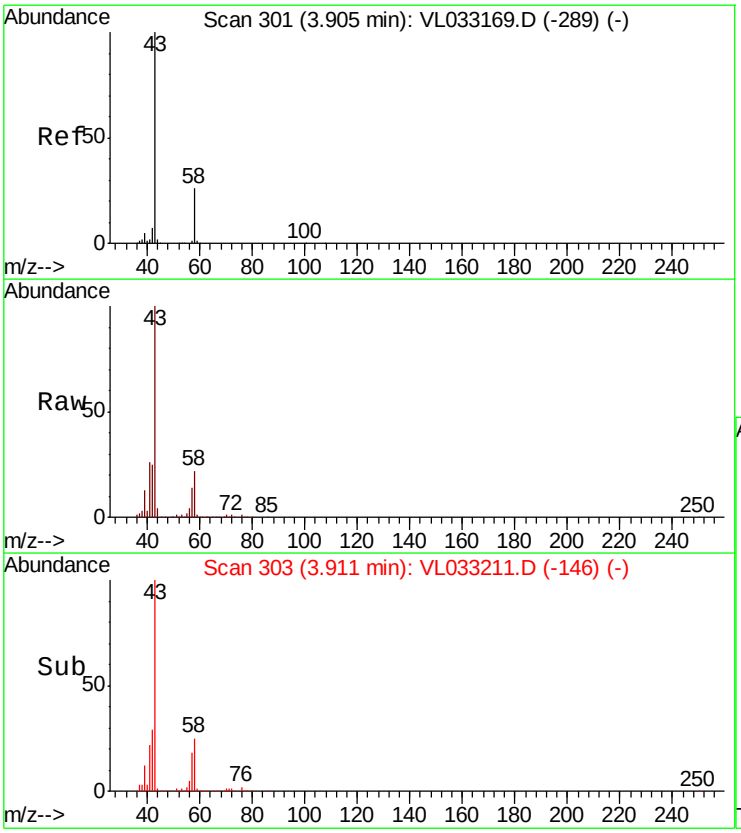


#13
Ethanol
Concen: 2.195 ppbv m
RT: 3.65 min Scan# 222
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 45 Resp: 41167

Ion	Ratio	Lower	Upper
45	100		
46	38.3	15.0	60.2

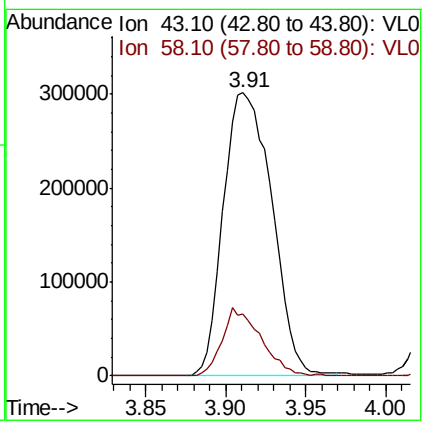


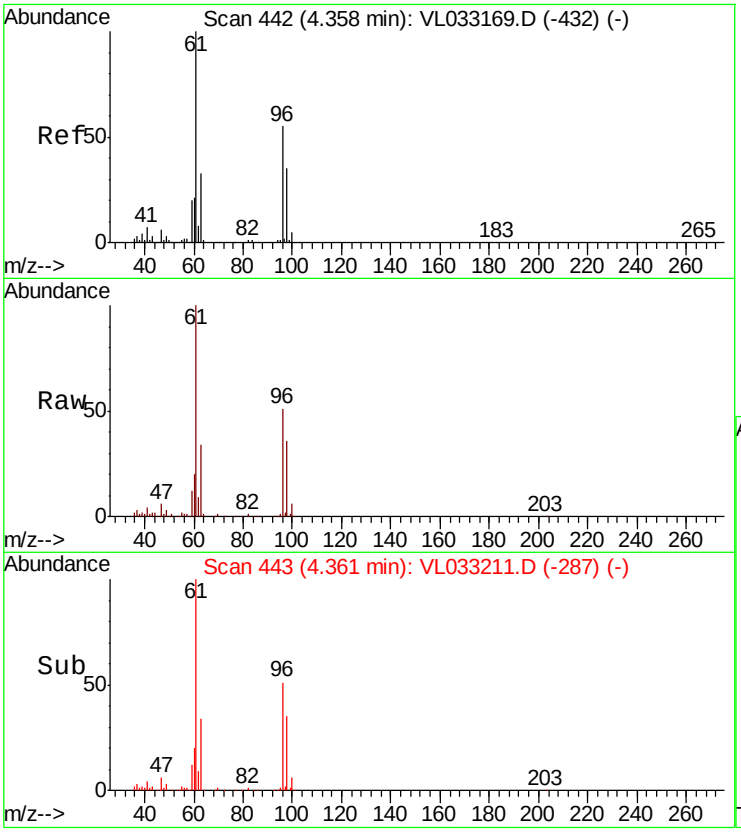


#15
Acetone
Concen: 5.834 ppbv
RT: 3.91 min Scan# 303
Delta R.T. 0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 43 Resp: 623527

Ion	Ratio	Lower	Upper
43	100		
58	19.5	21.1	31.7#

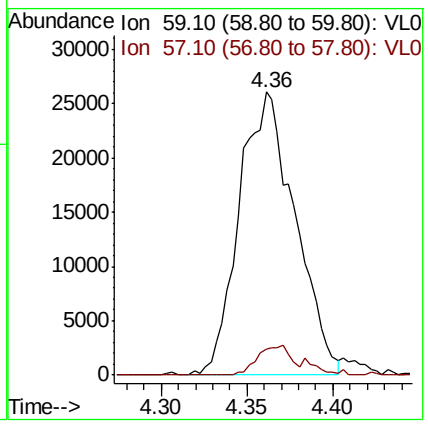


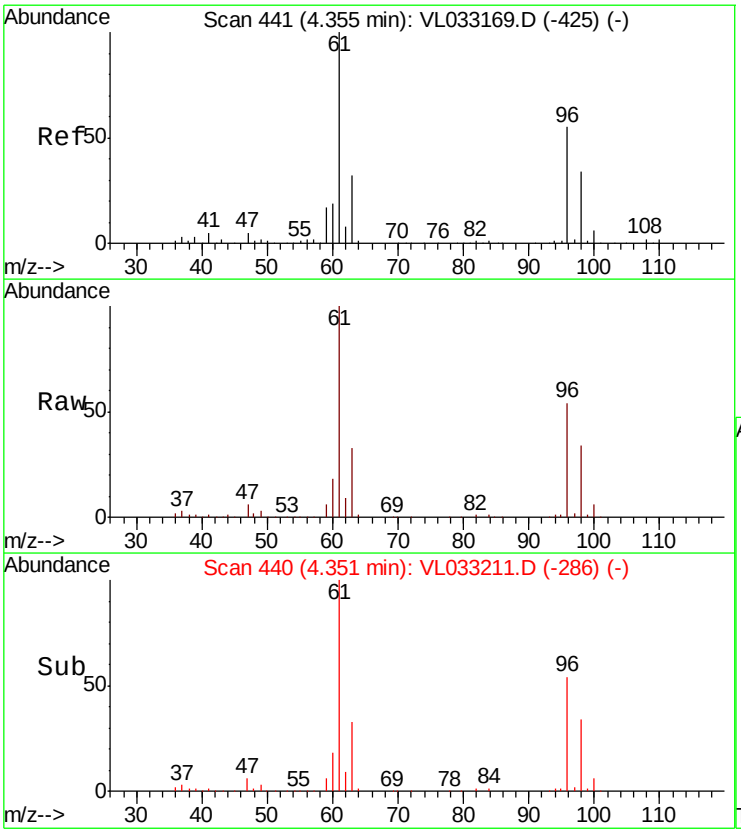


#17
tert-Butyl alcohol
Concen: 2.859 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 59 Resp: 58685

Ion	Ratio	Lower	Upper
59	100		
57	7.9	7.6	11.4

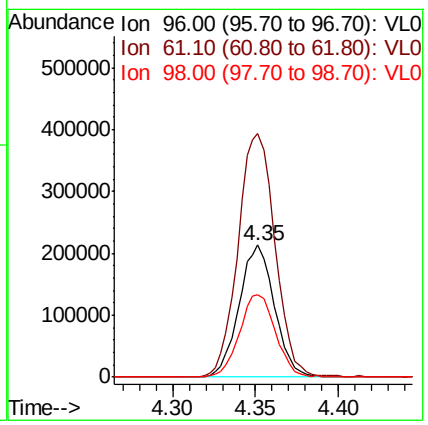


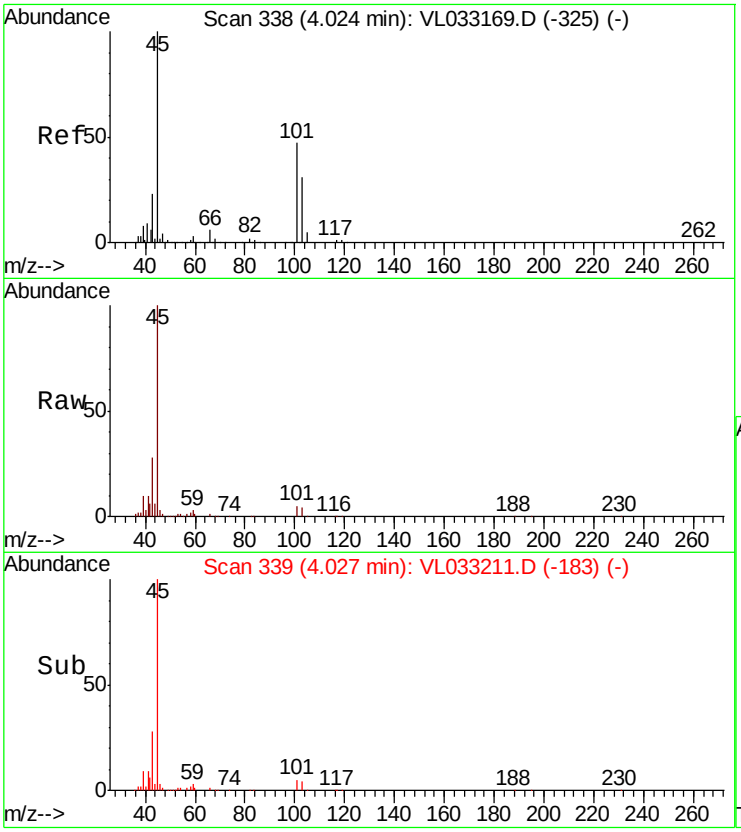


#18
1,1-Dichloroethene
Concen: 6.941 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 96 Resp: 316172

Ion	Ratio	Lower	Upper
96	100		
61	184.2	145.0	217.6
98	62.7	50.0	75.0

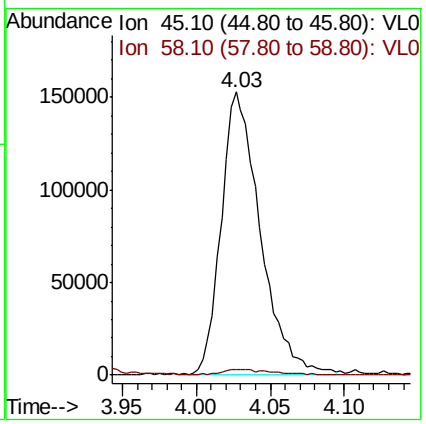


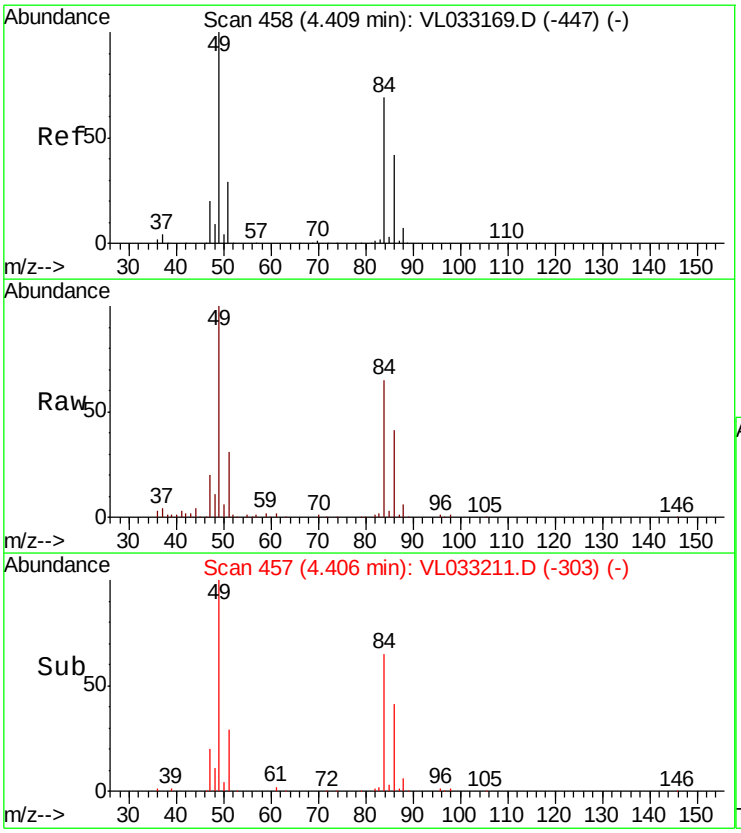


#19
Isopropyl Alcohol
Concen: 3.883 ppbv m
RT: 4.03 min Scan# 339
Delta R.T. 0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 45 Resp: 281427

Ion	Ratio	Lower	Upper
45	100		
58	2.8	1.5	2.3#

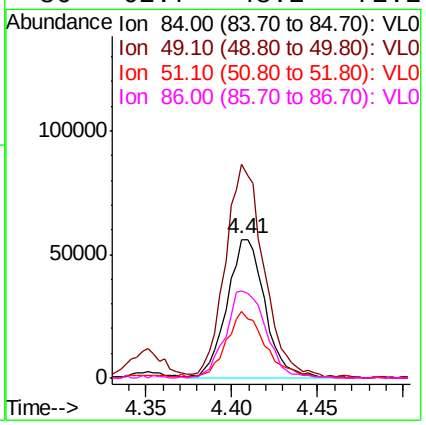


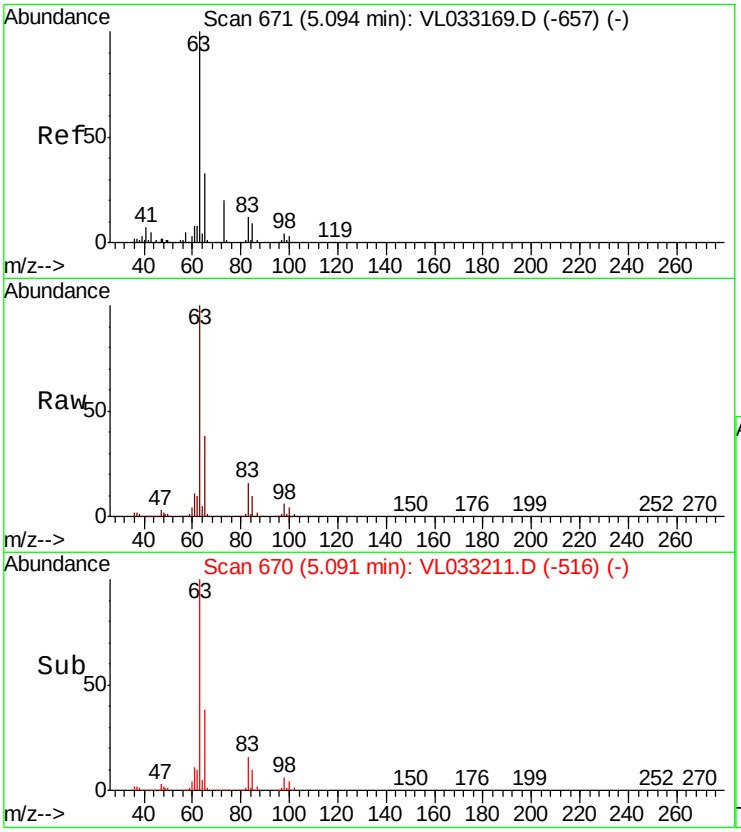


#20
Methylene Chloride
Concen: 2.033 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 84 Resp: 86442

Ion	Ratio	Lower	Upper
84	100		
49	153.2	115.8	173.8
51	47.8	33.0	49.6
86	62.7	48.2	72.2

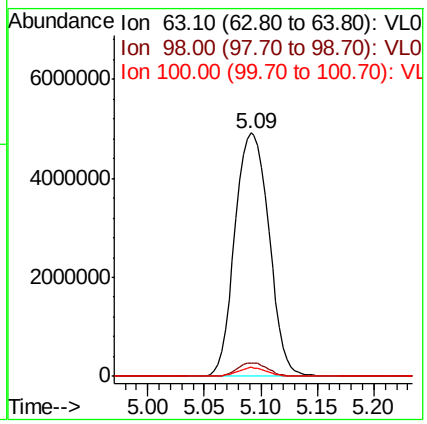


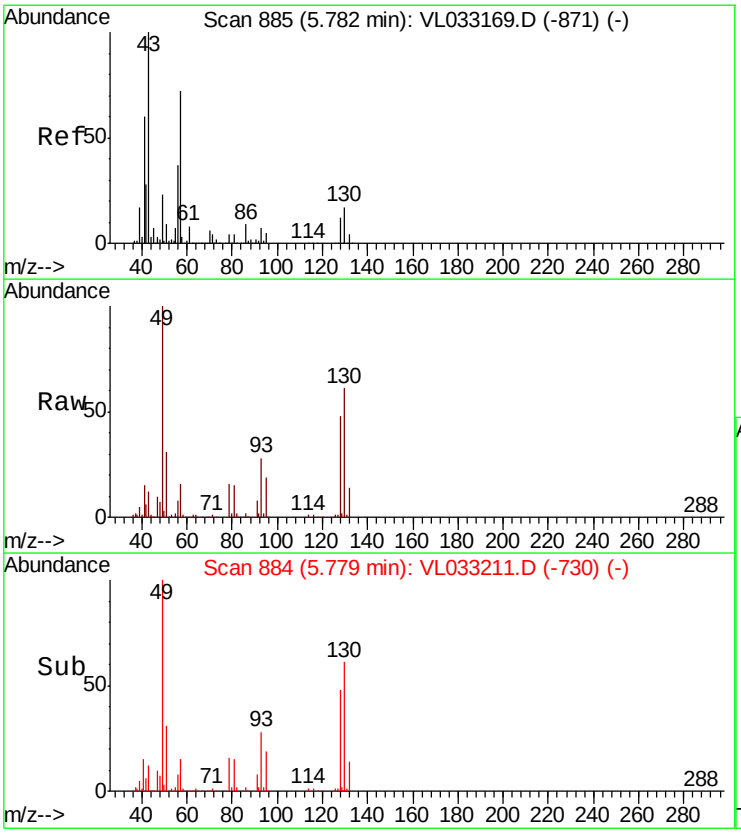


#24
1,1-Dichloroethane
Concen: 79.032 ppbv
RT: 5.09 min Scan# 670
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 63 Resp:10354517

Ion	Ratio	Lower	Upper
63	100		
98	5.6	2.1	6.5
100	3.7	1.4	4.2

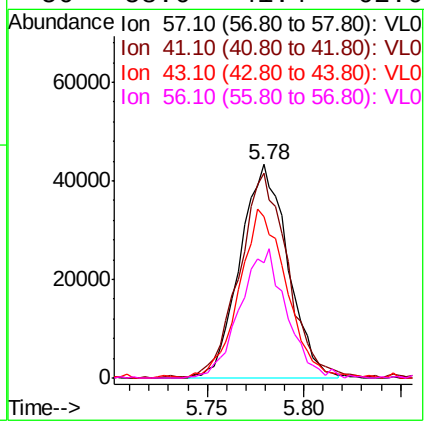


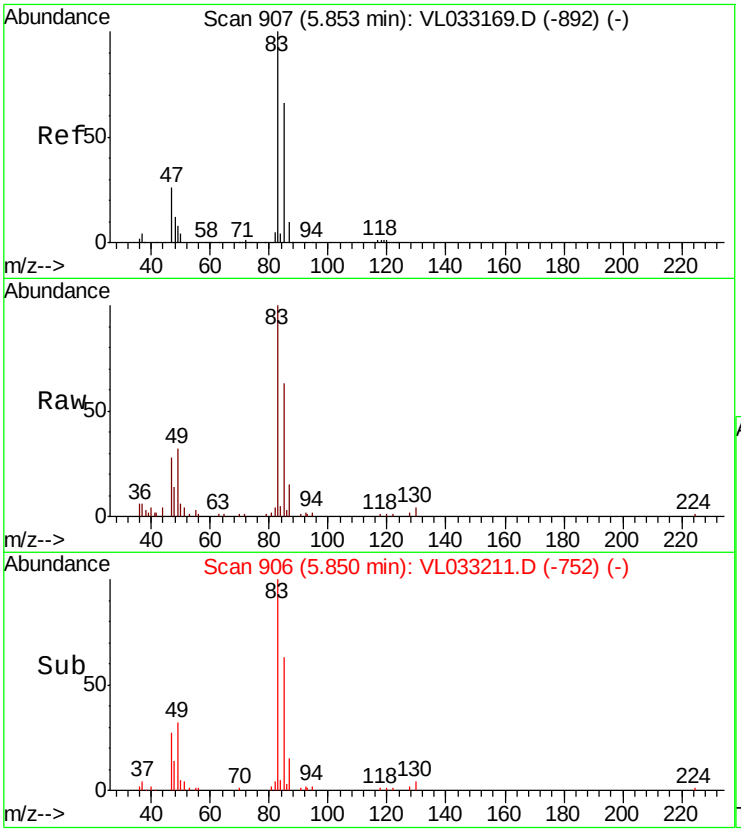


#26
Hexane
Concen: 0.661 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 57 Resp: 74617

Ion	Ratio	Lower	Upper
57	100		
41	98.5	69.4	104.2
43	78.8	176.7	265.1#
56	58.6	41.4	62.0

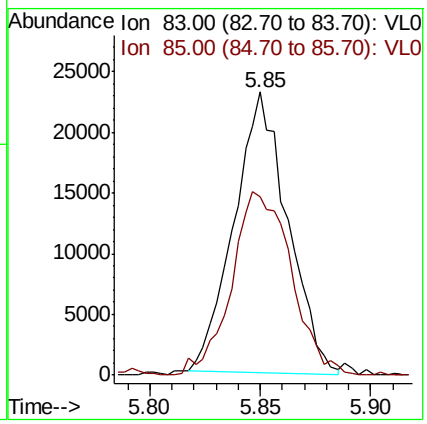


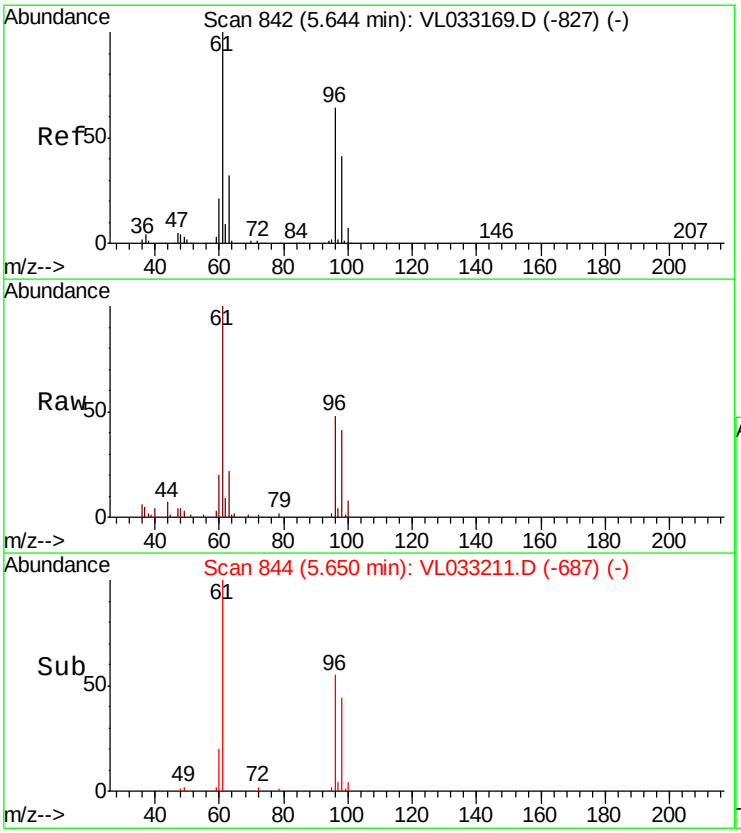


#29
Chloroform
Concen: 0.226 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 83 Resp: 39012

Ion	Ratio	Lower	Upper
83	100		
85	60.7	52.6	78.8

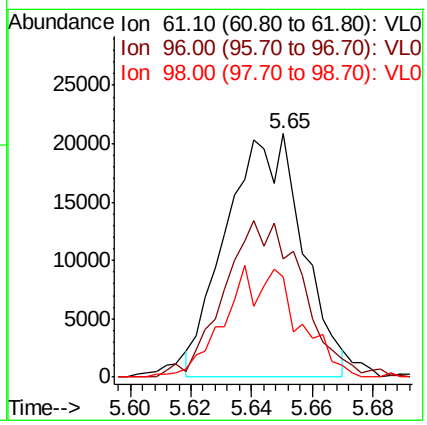


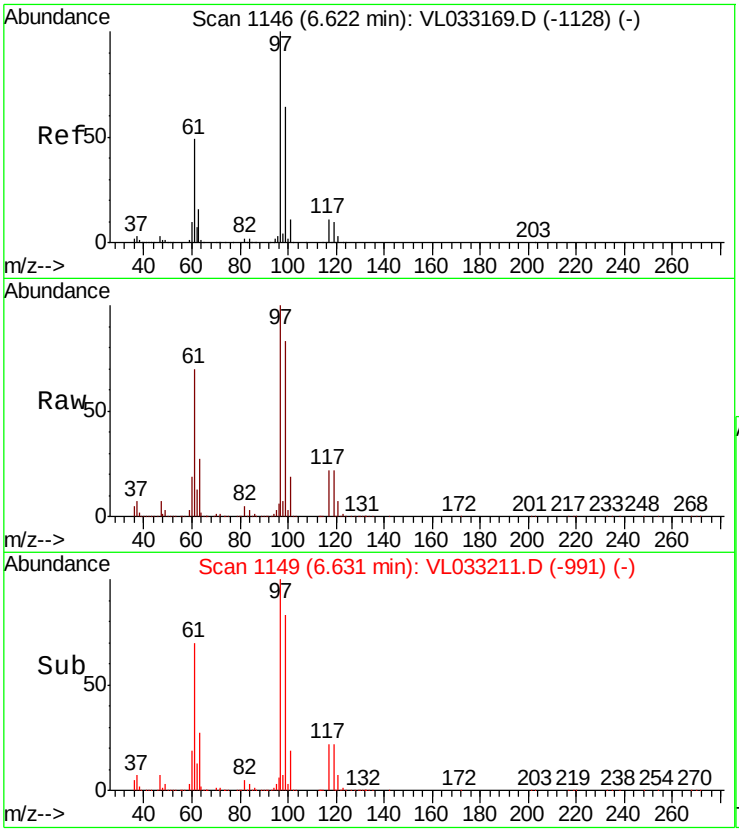


#31
cis-1,2-Dichloroethene
Concen: 0.321 ppbv m
RT: 5.65 min Scan# 844
Delta R.T. 0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 61 Resp: 36288

Ion	Ratio	Lower	Upper
61	100		
96	48.3	51.2	76.8#
98	41.3	32.8	49.2

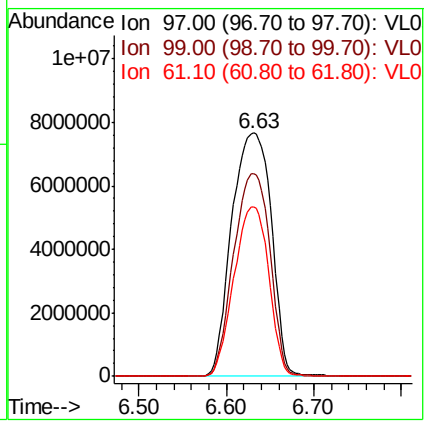


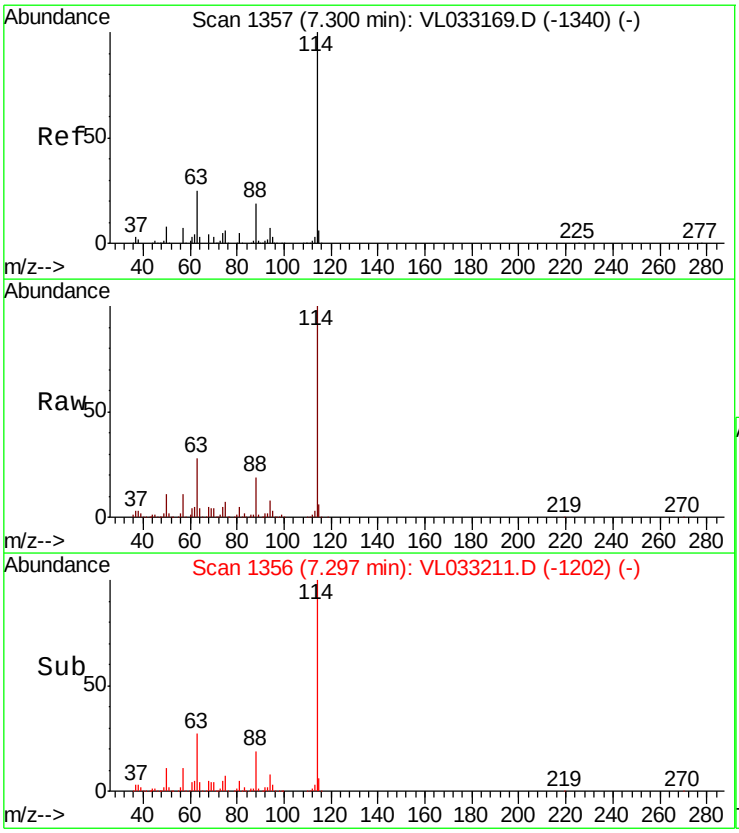


#32
1,1,1-Trichloroethane
Concen: 126.794 ppbv
RT: 6.63 min Scan# 1149
Delta R.T. 0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 97 Resp:24135639

Ion	Ratio	Lower	Upper
97	100		
99	76.7	51.4	77.2
61	61.5	38.8	58.2#

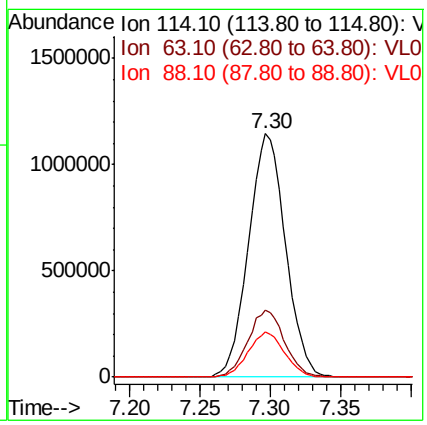


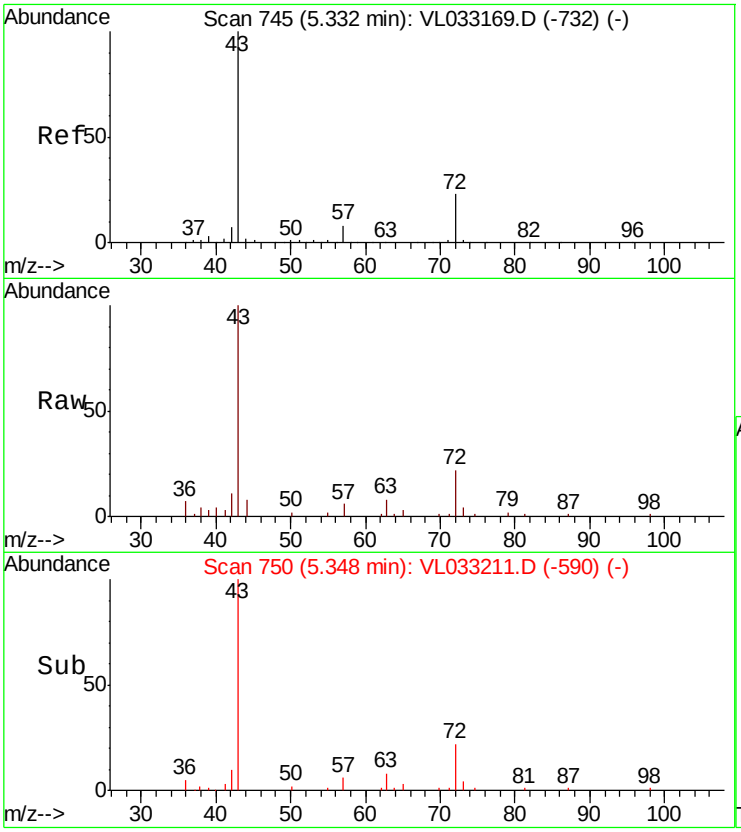


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion:114 Resp: 2100110

Ion	Ratio	Lower	Upper
114	100		
63	27.5	20.8	31.2
88	18.4	14.6	22.0

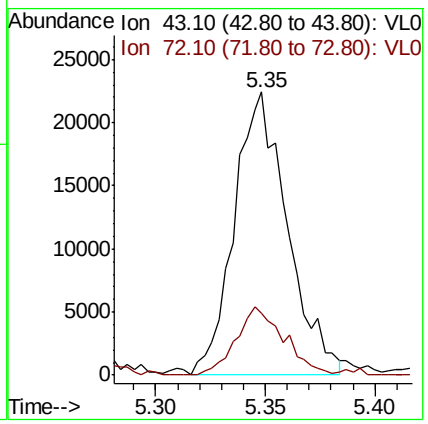


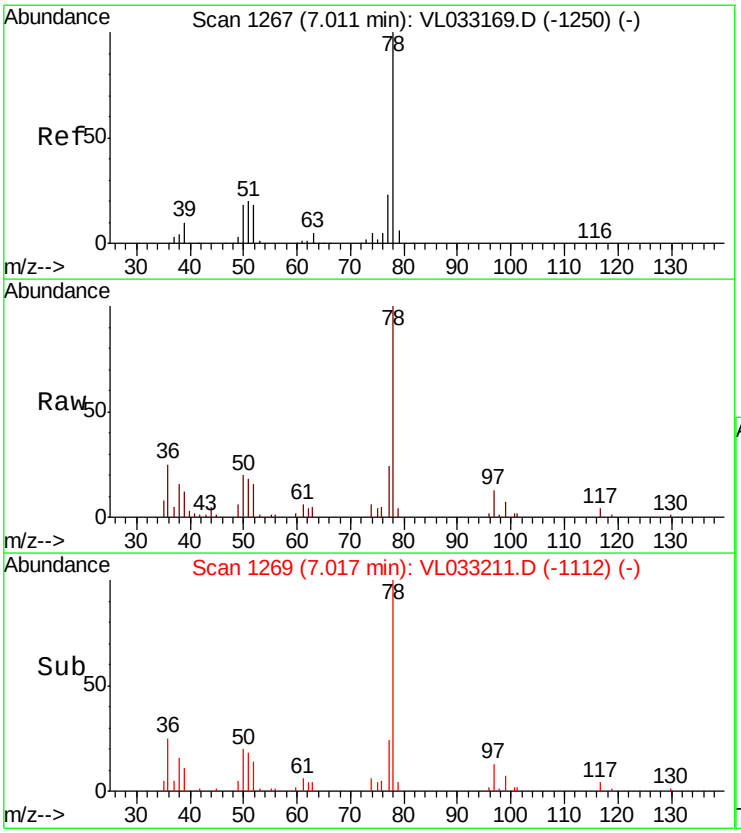


#34
2-Butanone
Concen: 0.282 ppbv m
RT: 5.35 min Scan# 750
Delta R.T. 0.02 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 43 Resp: 37623

Ion	Ratio	Lower	Upper
43	100		
72	22.5	17.8	26.6

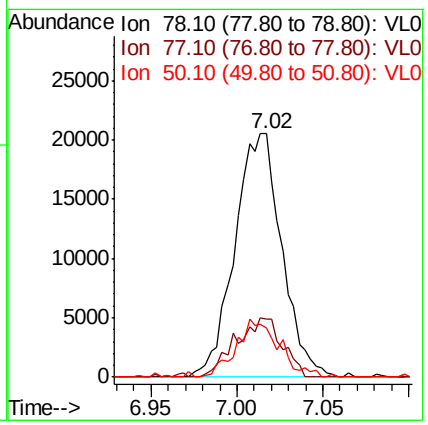


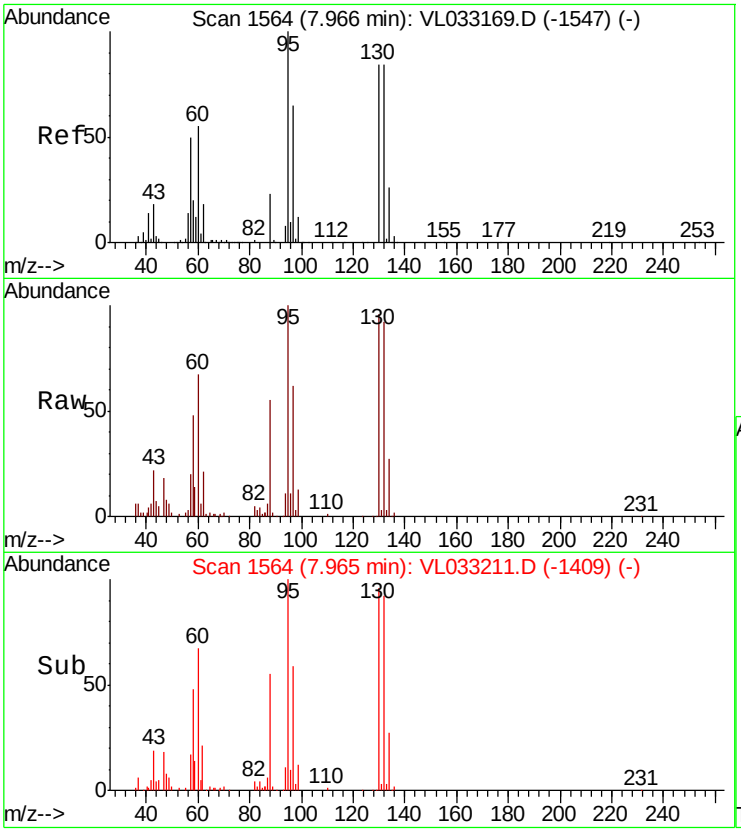


#36
Benzene
Concen: 0.183 ppbv
RT: 7.02 min Scan# 1269
Delta R.T. 0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 78 Resp: 39001

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.0	27.0
50	20.0	14.2	21.2

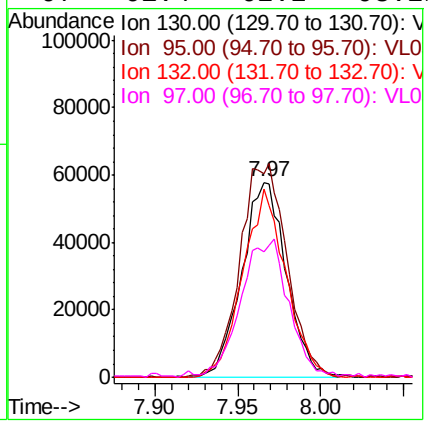


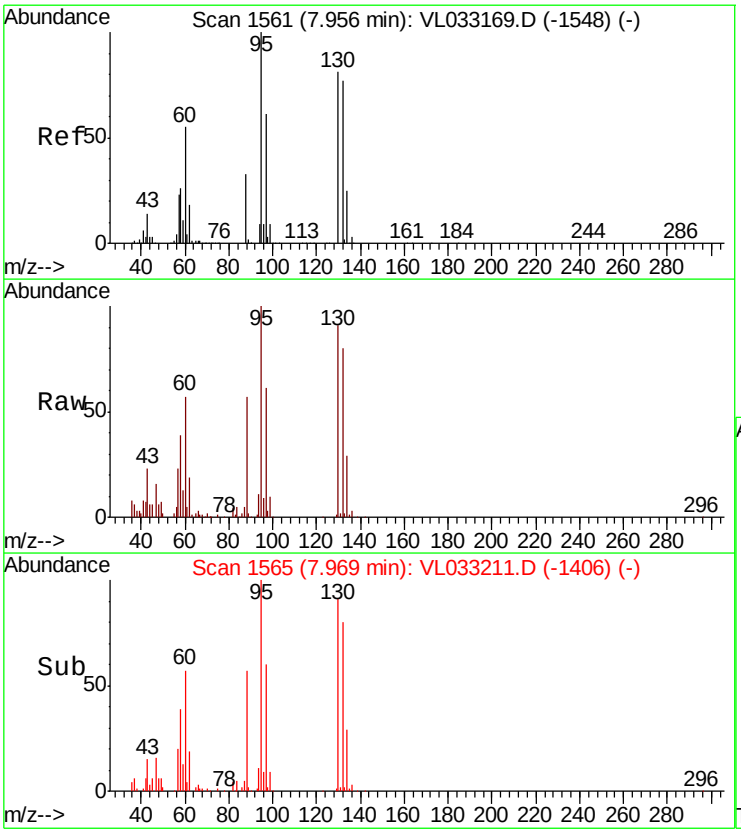


#38
Trichloroethene
Concen: 1.186 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion:130 Resp: 107899

Ion	Ratio	Lower	Upper
130	100		
95	101.0	95.5	143.3
132	93.4	80.0	120.0
97	61.4	62.2	93.2#

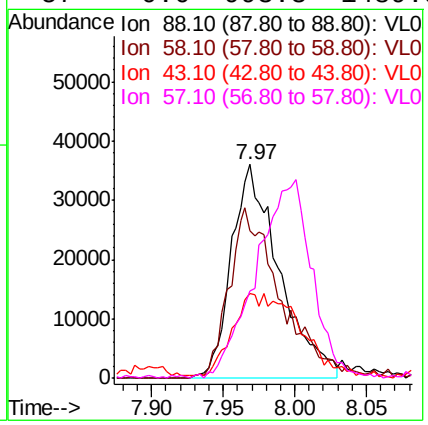


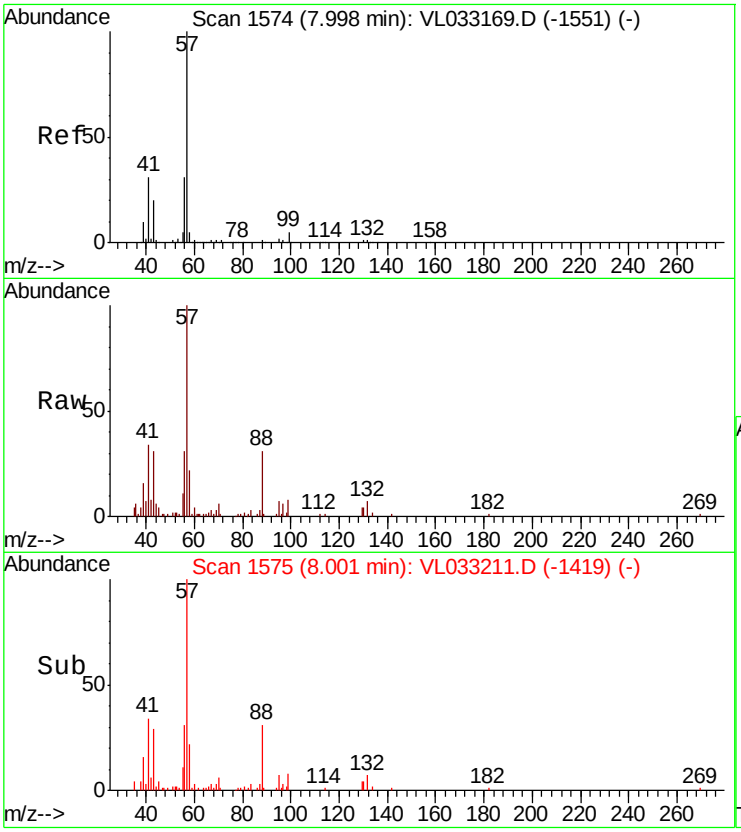


#40
1,4-Dioxane
Concen: 2.799 ppbv m
RT: 7.97 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 88 Resp: 83524

Ion	Ratio	Lower	Upper
88	100		
58	87.3	106.4	159.6#
43	57.4	219.6	329.4#
57	0.0	993.3	1489.9#

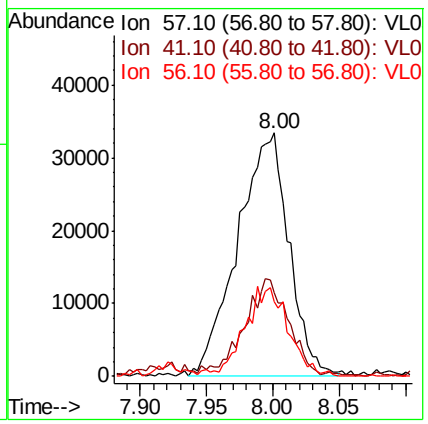


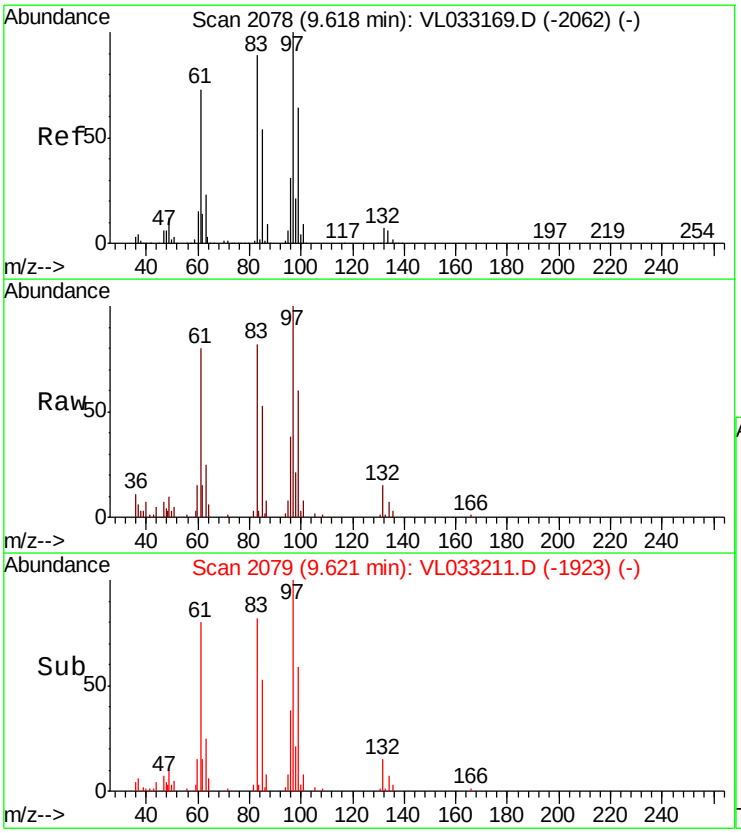


#44
2,2,4-Trimethylpentane
Concen: 0.250 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 57 Resp: 90037

Ion	Ratio	Lower	Upper
57	100		
41	35.6	25.2	37.8
56	31.1	24.5	36.7

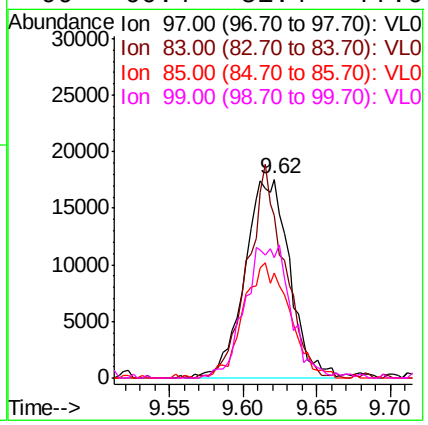


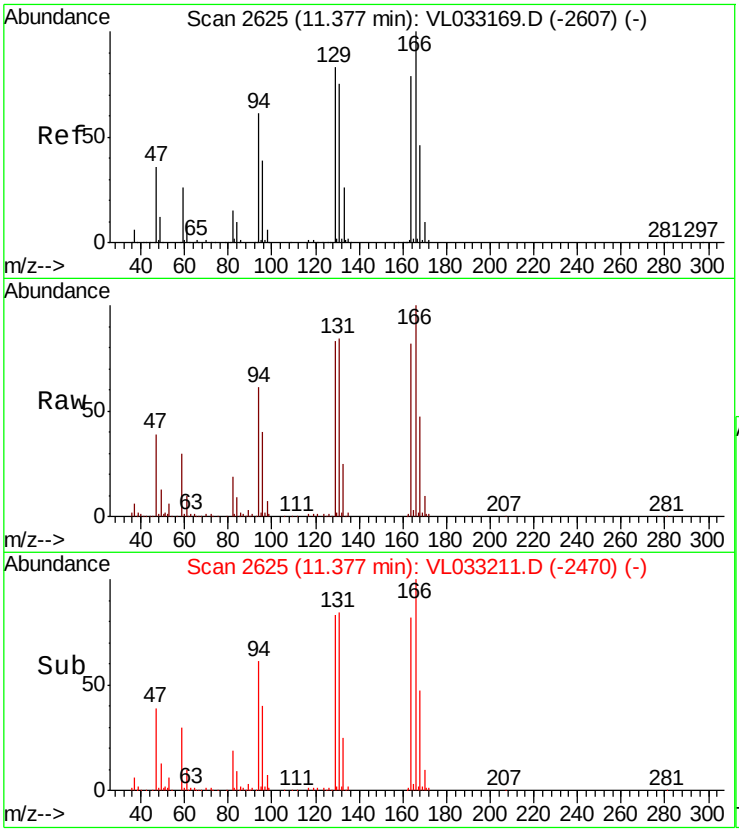


#47
1,1,2-Trichloroethane
Concen: 0.427 ppbv m
RT: 9.62 min Scan# 2079
Delta R.T. 0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 97 Resp: 37181

Ion	Ratio	Lower	Upper
97	100		
83	81.6	71.4	107.2
85	52.8	43.5	65.3
99	60.4	51.4	77.0

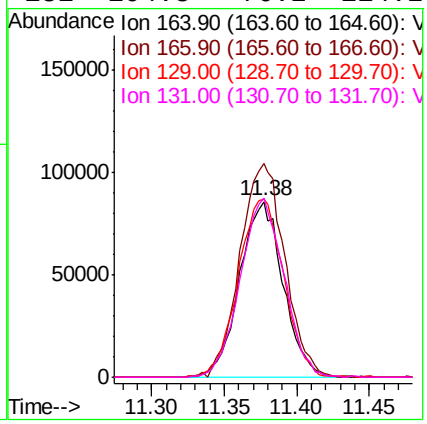


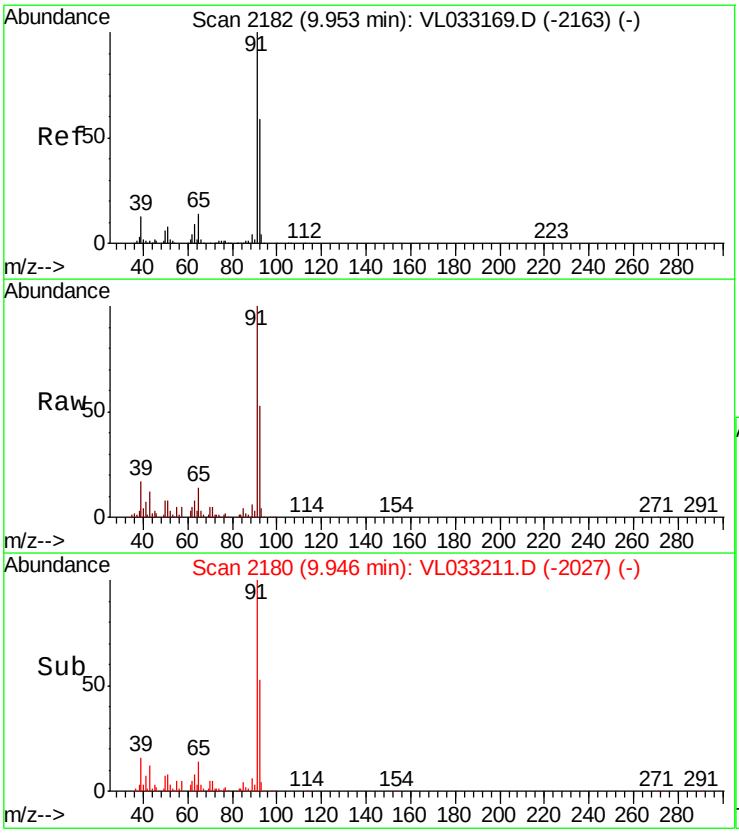


#52
Tetrachloroethene
Concen: 2.182 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion:164 Resp: 178458

Ion	Ratio	Lower	Upper
164	100		
166	121.3	100.9	151.3
129	102.6	83.9	125.9
131	104.8	76.2	114.2

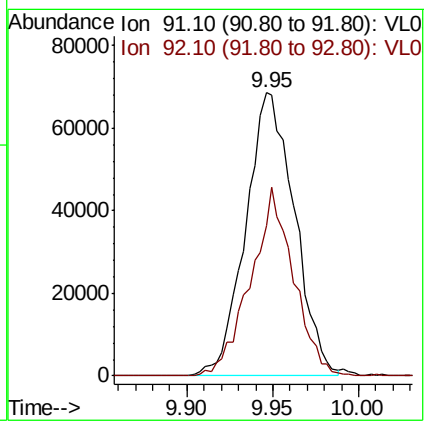


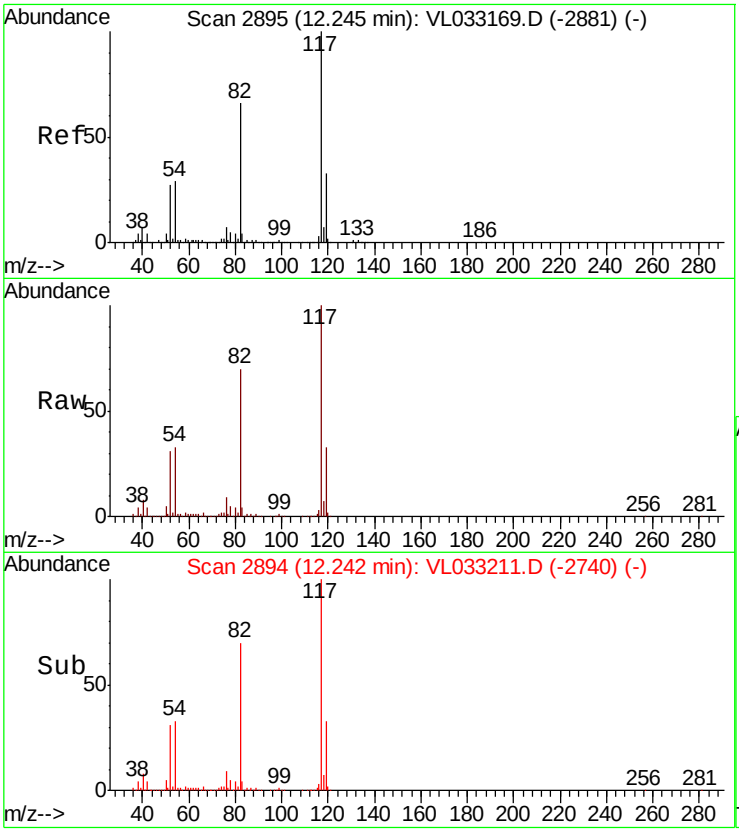


#53
Toluene
Concen: 0.534 ppbv
RT: 9.95 min Scan# 2180
Delta R.T. -0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 91 Resp: 134629

Ion	Ratio	Lower	Upper
91	100		
92	58.6	48.0	72.0

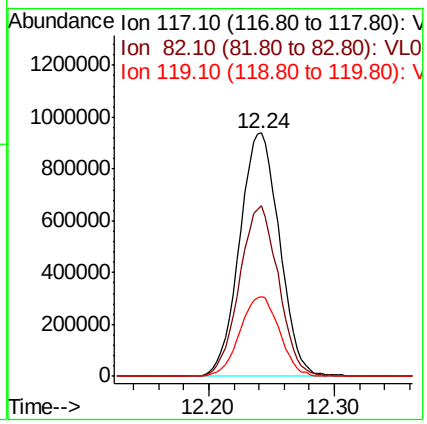


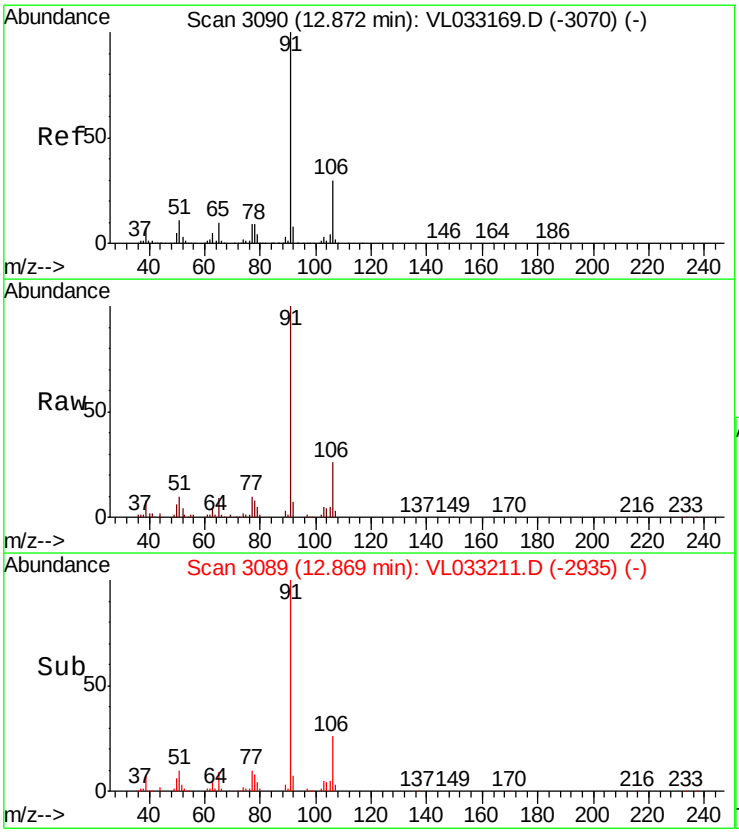


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion:117 Resp: 2074311

Ion	Ratio	Lower	Upper
117	100		
82	68.7	53.8	80.8
119	32.7	46.9	70.3#

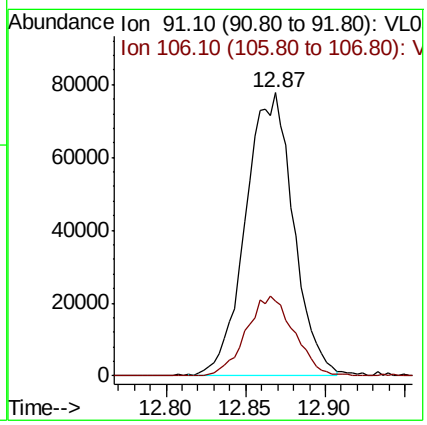


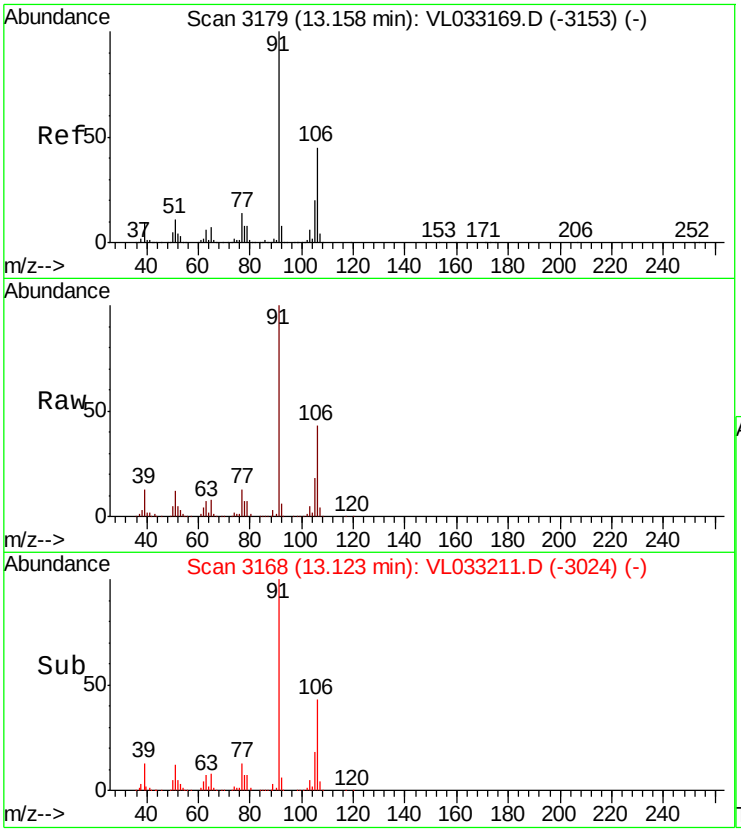


#58
Ethyl Benzene
Concen: 0.477 ppbv m
RT: 12.87 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 91 Resp: 162277

Ion	Ratio	Lower	Upper
91	100		
106	26.3	23.8	35.8

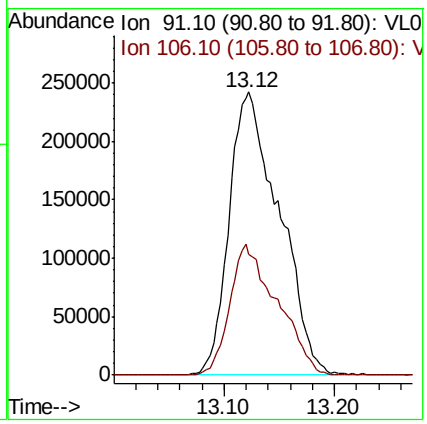


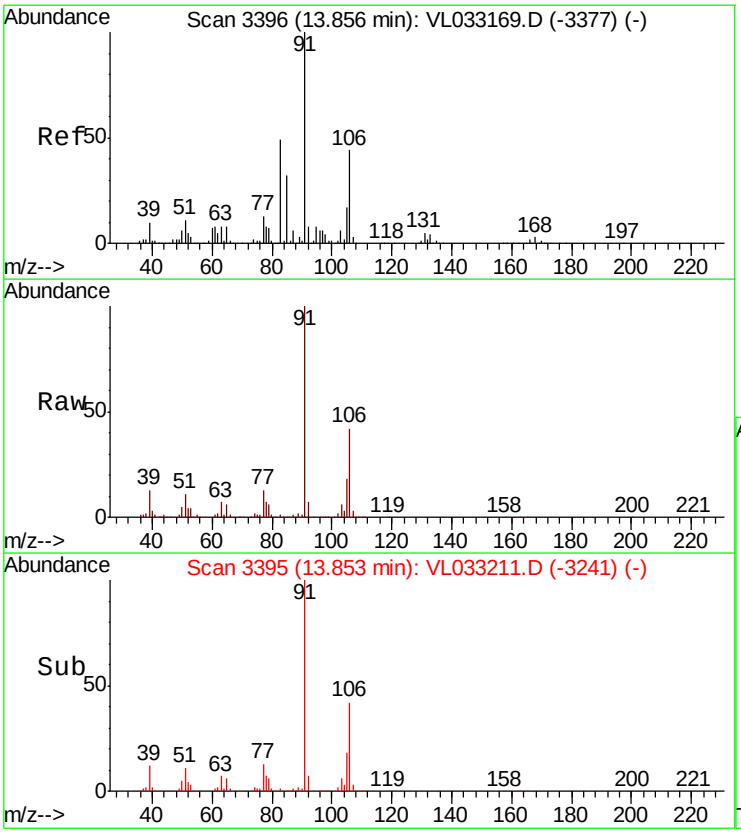


#59
m/p-Xylene
Concen: 2.675 ppbv
RT: 13.12 min Scan# 3168
Delta R.T. -0.04 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 91 Resp: 757562

Ion	Ratio	Lower	Upper
91	100		
106	44.1	36.6	55.0

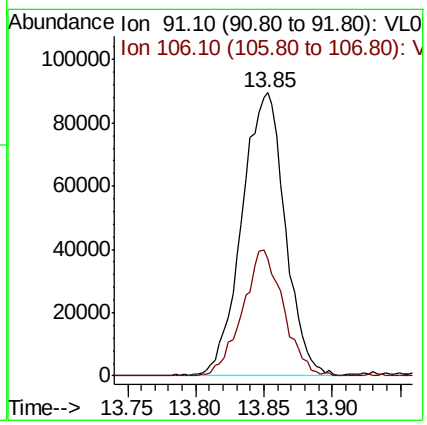


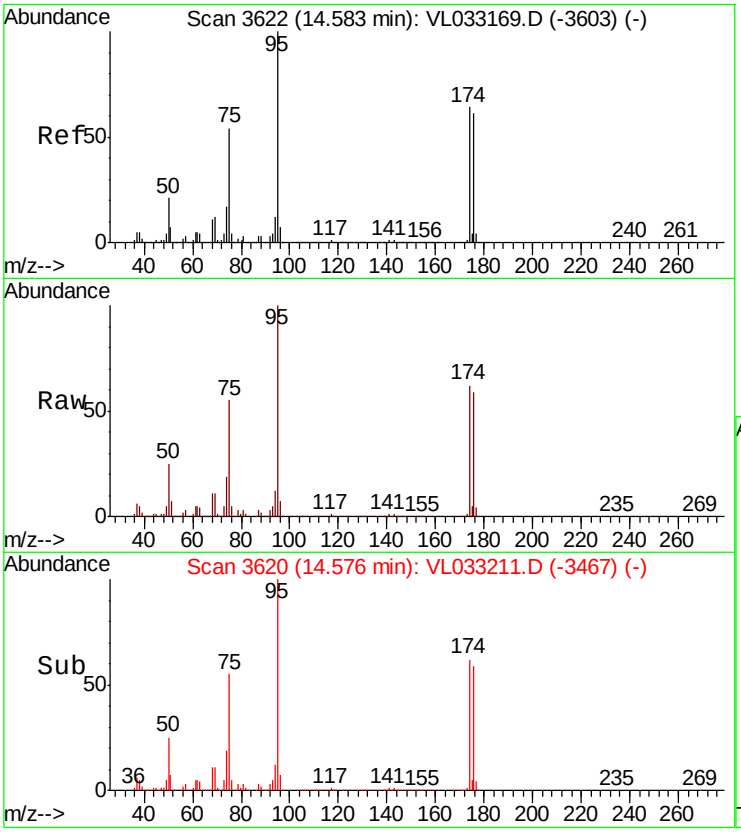


#60
o-Xylene
Concen: 0.710 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 91 Resp: 195977

Ion	Ratio	Lower	Upper
91	100		
106	42.5	21.8	65.3

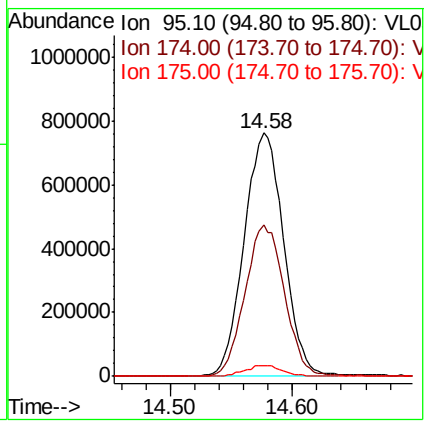


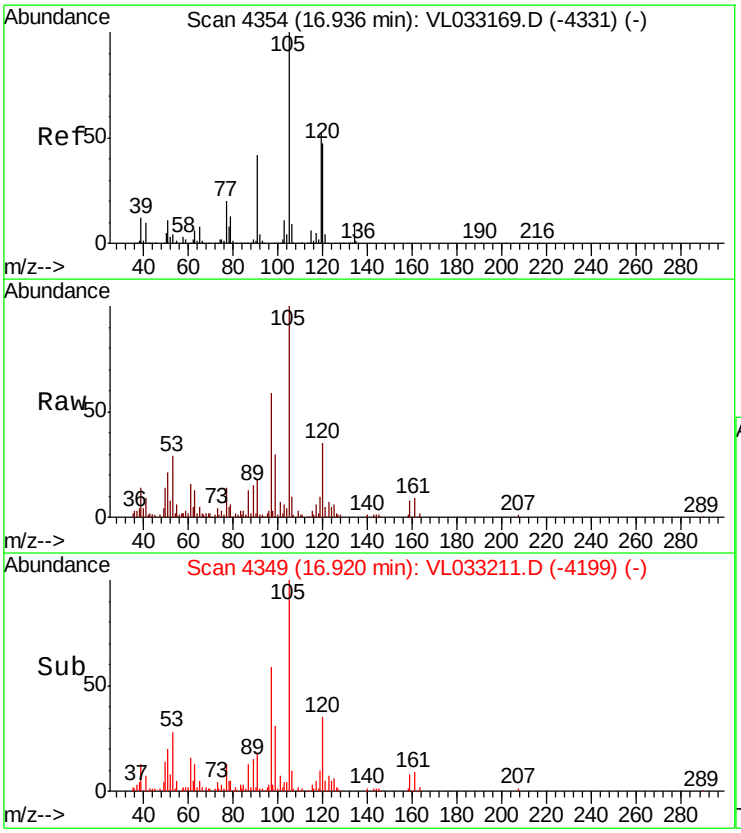


#68
1-Bromo-4-Fluorobenzene
Concen: 10.545 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 95 Resp: 1704699

Ion	Ratio	Lower	Upper
95	100		
174	62.5	51.1	76.7
175	4.5	3.8	5.6





#74
1,2,4-Trimethylbenzene
Concen: 0.346 ppbv m
RT: 16.92 min Scan# 4349
Delta R.T. -0.02 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion:105 Resp: 109204

Ion	Ratio	Lower	Upper
105	100		
120	34.8	37.9	56.9#
91	18.2	34.0	51.0#
77	14.1	15.7	23.5#