Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
Data File : VL033404.D
Acq On : 21 Mar 2019 00:22
Operator : SY/AP
Sample : K1976-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA2

Quant Time: Mar 21 12:40:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Mar 15 14:52:14 2019
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.76	49	800514	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.29	114	2011848	10.00	ppbv		-0.01
55) Chlorobenzene-d5	12.24	117	1928975	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.57	95	1428252	9.99	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.07	85	66093	0.469	ppbv		96
3) Chlorodifluoromethane	2.99	51	130923	1.425	ppbv	#	76
4) Chloromethane	3.17	50	32172	0.647	ppbv		98
9) Propene	3.24	41	122996	2.999	ppbv		99
10) Heptane	8.24	43	13543	0.133	ppbv	#	27
11) Trichlorofluoromethane	4.00	101	35928	0.256	ppbv		89
12) 1,1,2-Trichlorotrifluoroet	4.55	101	7565	0.081	ppbv		99
13) Ethanol	3.65	45	540318	27.633	ppbv		98
15) Acetone	3.90	43	662699	5.326	ppbv		98
16) 1,3-Butadiene	3.34	39	23503	0.581	ppbv	#	36
17) tert-Butyl alcohol	4.37	59	7278	0.416	ppbv	#	74
19) Isopropyl Alcohol	4.03	45	175776	2.970	ppbv	#	97
20) Methylene Chloride	4.41	84	176115	4.340	ppbv		95
23) Vinyl Acetate	5.15	43	7826	0.054	ppbv	#	66
25) Ethyl Acetate	5.78	43	228964	1.266	ppbv	#	91
26) Hexane	5.78	57	223128	2.759	ppbv	#	53
29) Chloroform	5.84	83	6163	0.047	ppbv	#	76
30) Cyclohexane	7.24	84	6465	0.100	ppbv	#	1
34) 2-Butanone	5.33	43	56896	0.431	ppbv		97
36) Benzene	7.00	78	88070	0.489	ppbv		98
39) 1,2-Dichloropropane	7.29	63	497142	7.373	ppbv	#	24
44) 2,2,4-Trimethylpentane	7.99	57	66266	0.222	ppbv	#	64
52) Tetrachloroethene	11.37	164	17808	0.237	ppbv		95
53) Toluene	9.94	91	964814	4.716	ppbv		100
58) Ethyl Benzene	12.86	91	54048	0.198	ppbv		93
59) m/p-Xylene	13.12	91	52698	0.225	ppbv	#	100
60) o-Xylene	13.84	91	52080	0.228	ppbv		99
61) Styrene	13.68	104	11569	0.072	ppbv	#	60
72) 4-Ethyltoluene	16.00	105	23106	0.089	ppbv	#	91
73) 1,3,5-Trimethylbenzene	16.15	105	7919	0.031	ppbv		90
74) 1,2,4-Trimethylbenzene	16.92	105	72731	0.271	ppbv	#	66
76) 1,4-Dichlorobenzene	17.30	146	6168	0.040	ppbv	#	24

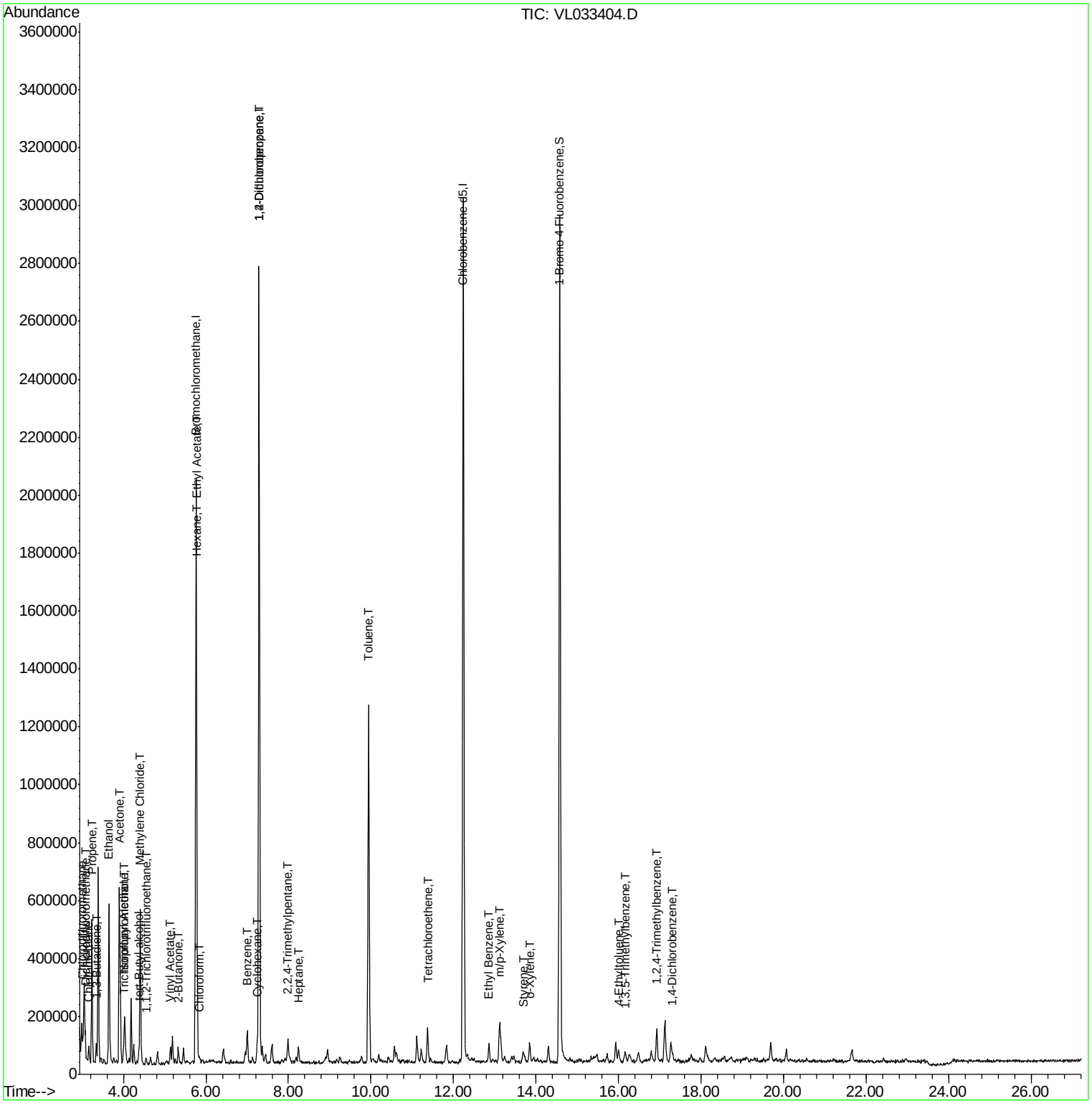
(#) = qualifier out of range (m) = manual integration (+) = signals summed

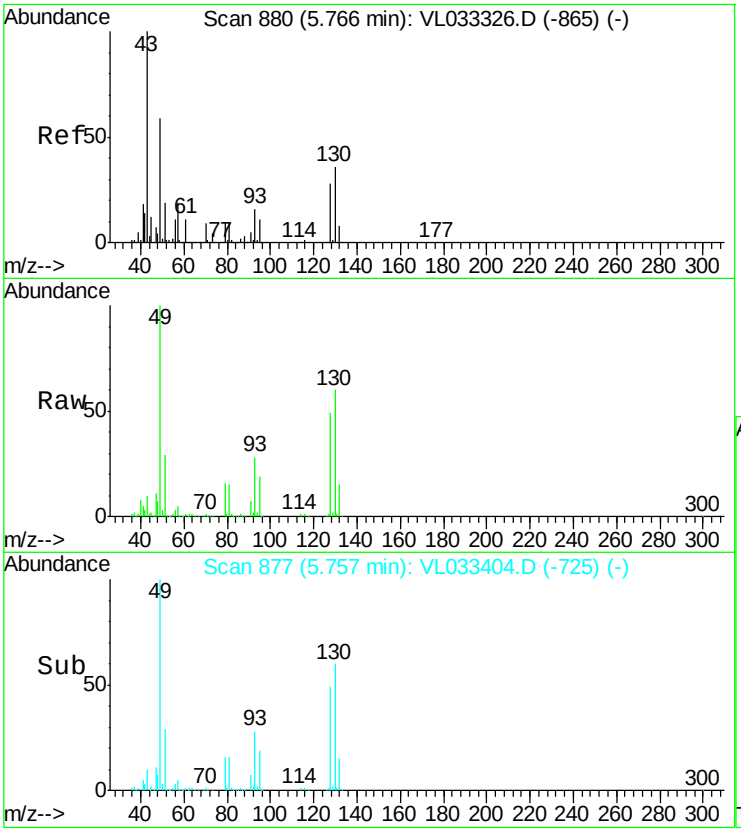
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
Data File : VL033404.D
Acq On : 21 Mar 2019 00:22
Operator : SY/AP
Sample : K1976-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA2

Quant Time: Mar 21 12:40:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Mar 15 14:52:14 2019
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration



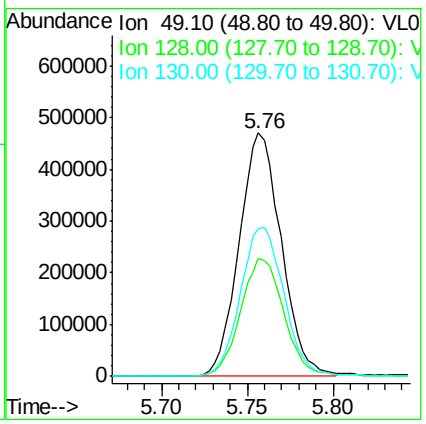


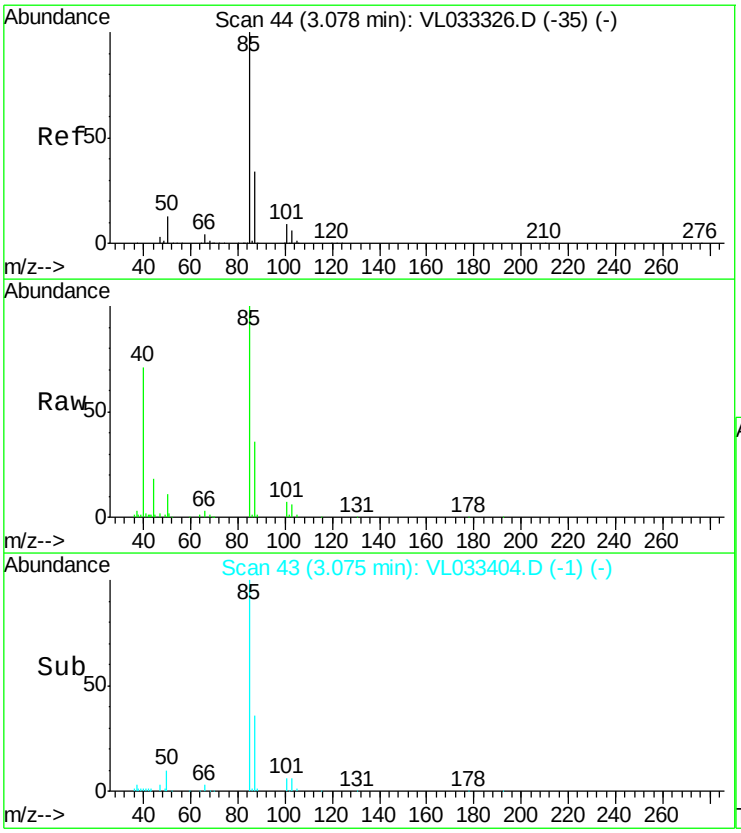
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion: 49 Resp: 800514

Ion	Ratio	Lower	Upper
49	100		
128	50.0	23.5	70.6
130	63.9	30.1	90.3

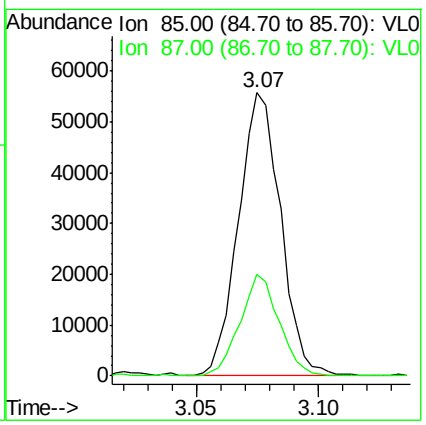


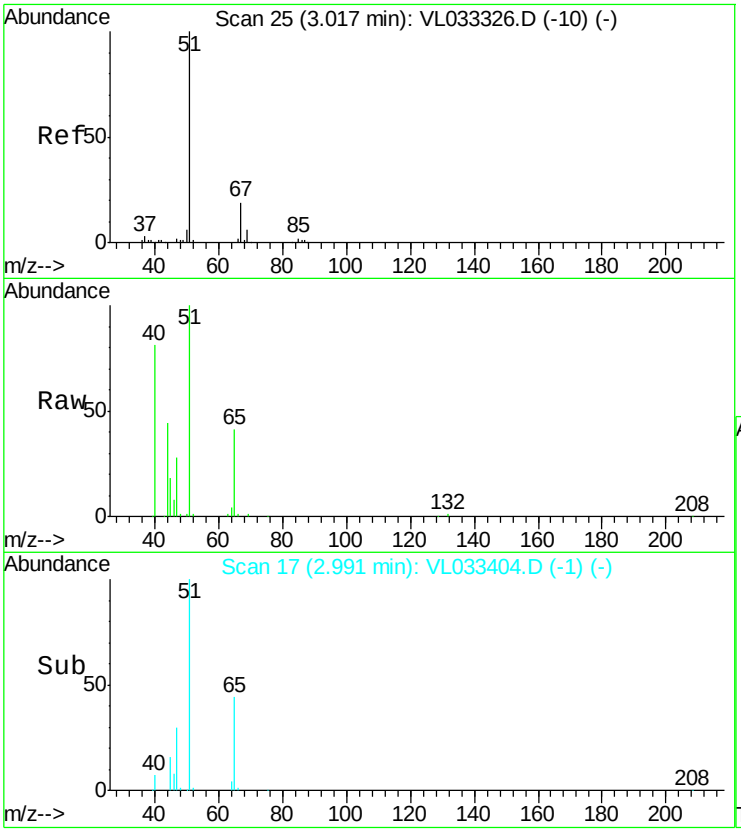


#2
Dichlorodifluoromethane
Concen: 0.469 ppbv
RT: 3.07 min Scan# 43
Delta R.T. -0.00 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 85 Resp: 66093

Ion	Ratio	Lower	Upper
85	100		
87	36.1	26.9	40.3



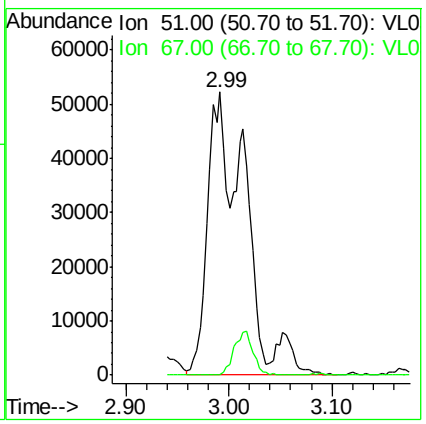


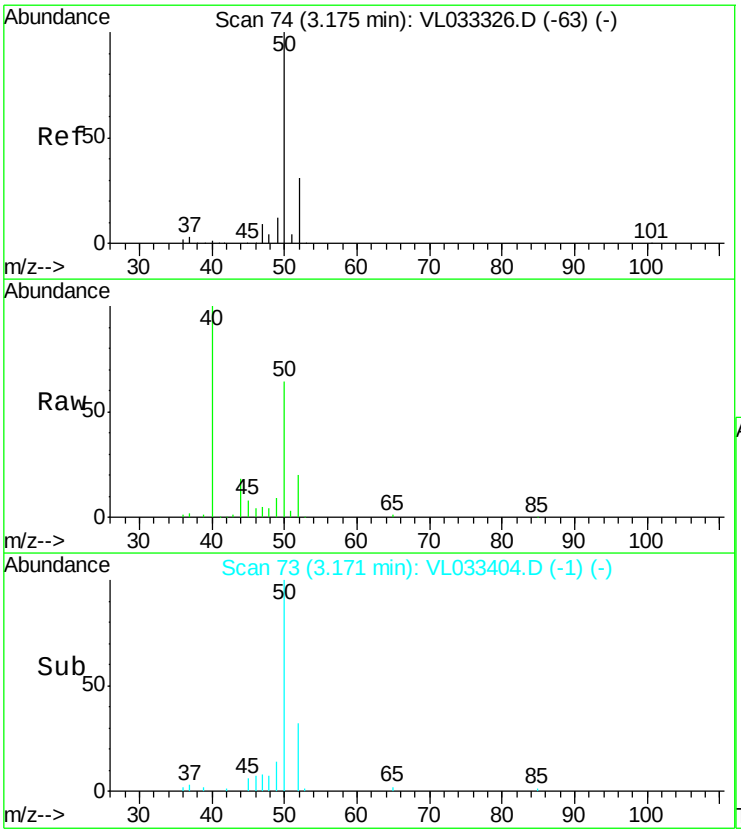
#3
Chlorodifluoromethane
Concen: 1.425 ppbv
RT: 2.99 min Scan# 17
Delta R.T. -0.03 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion: 51 Resp: 130923

Ion	Ratio	Lower	Upper
51	100		
67	8.0	14.9	22.3#

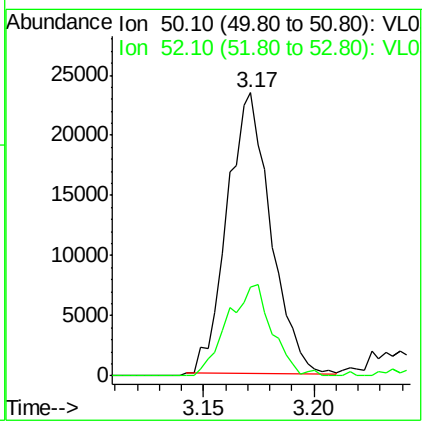


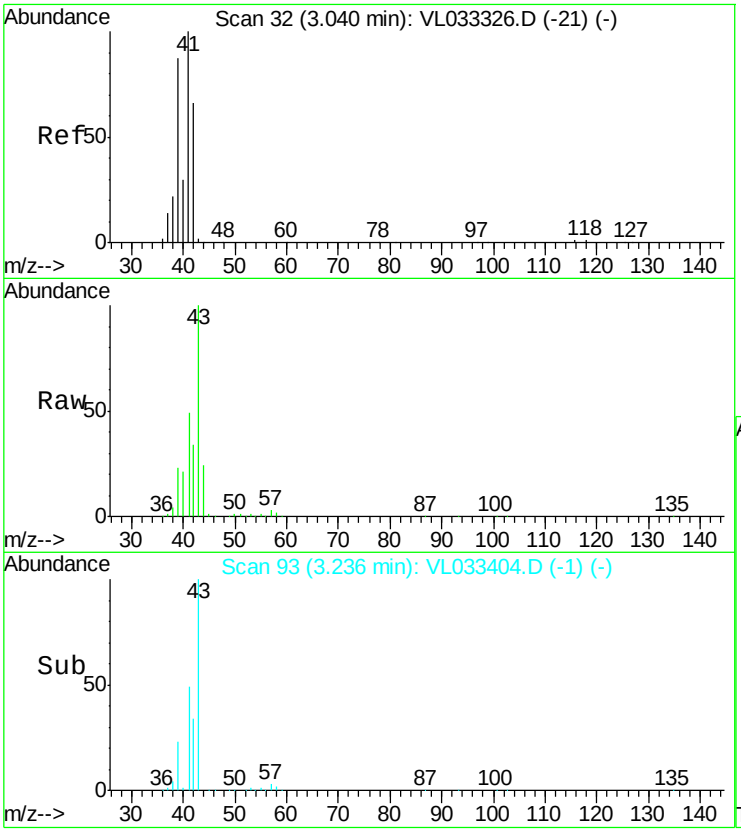


#4
Chloromethane
Concen: 0.647 ppbv
RT: 3.17 min Scan# 73
Delta R.T. -0.00 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 50 Resp: 32172

Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.0	37.6



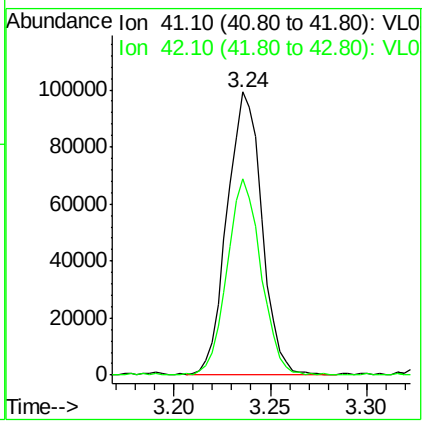


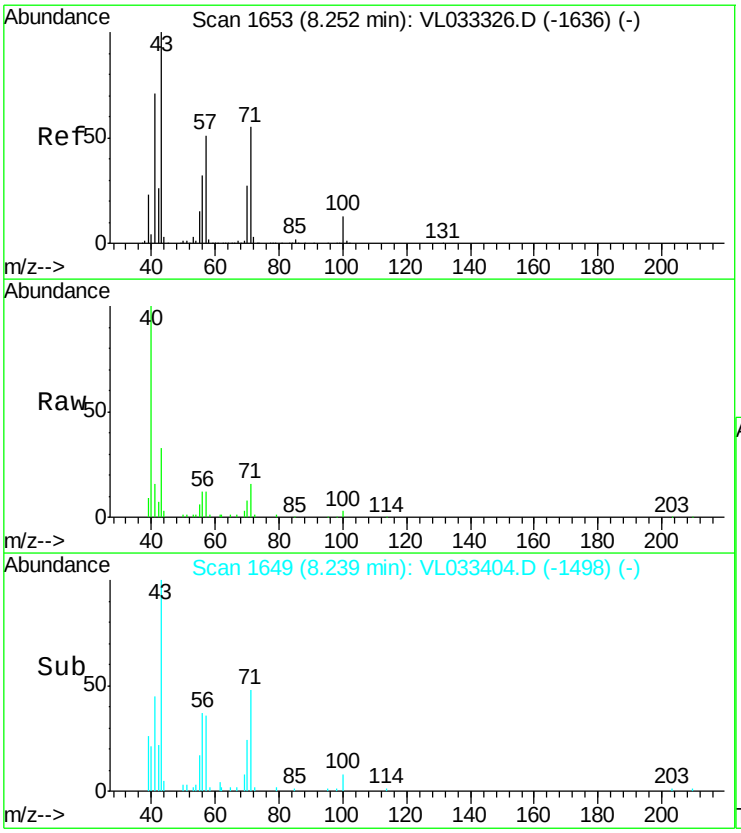
#9
Propene
Concen: 2.999 ppbv
RT: 3.24 min Scan# 93
Delta R.T. 0.20 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion: 41 Resp: 122996

Ion	Ratio	Lower	Upper
41	100		
42	68.2	55.2	82.8

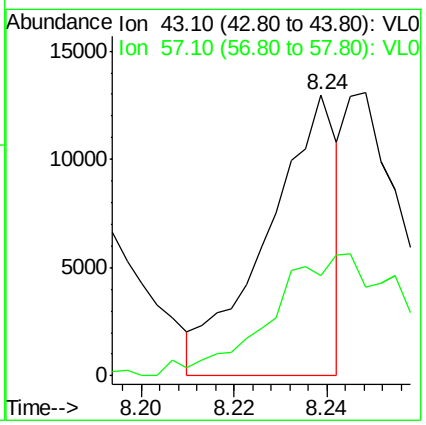


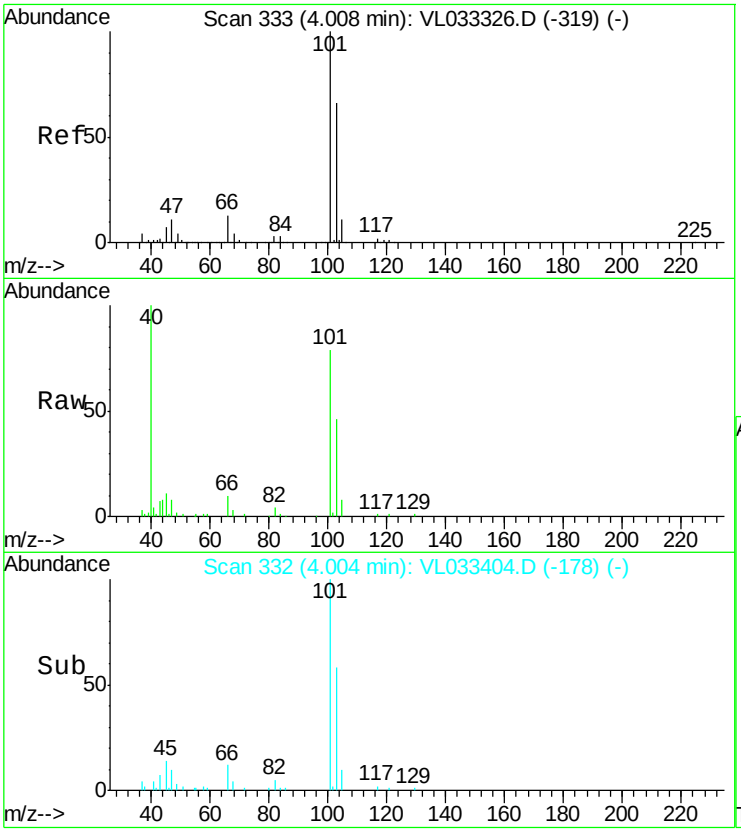


#10
Heptane
Concen: 0.133 ppbv
RT: 8.24 min Scan# 1649
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 43 Resp: 13543

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.4	60.6#



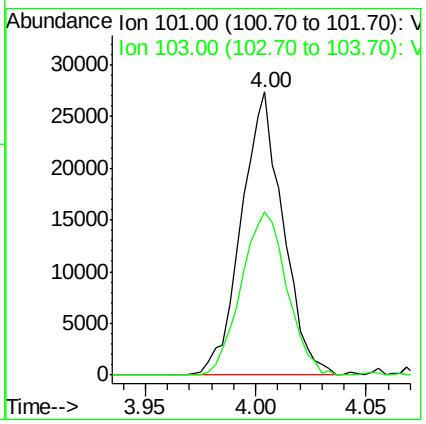


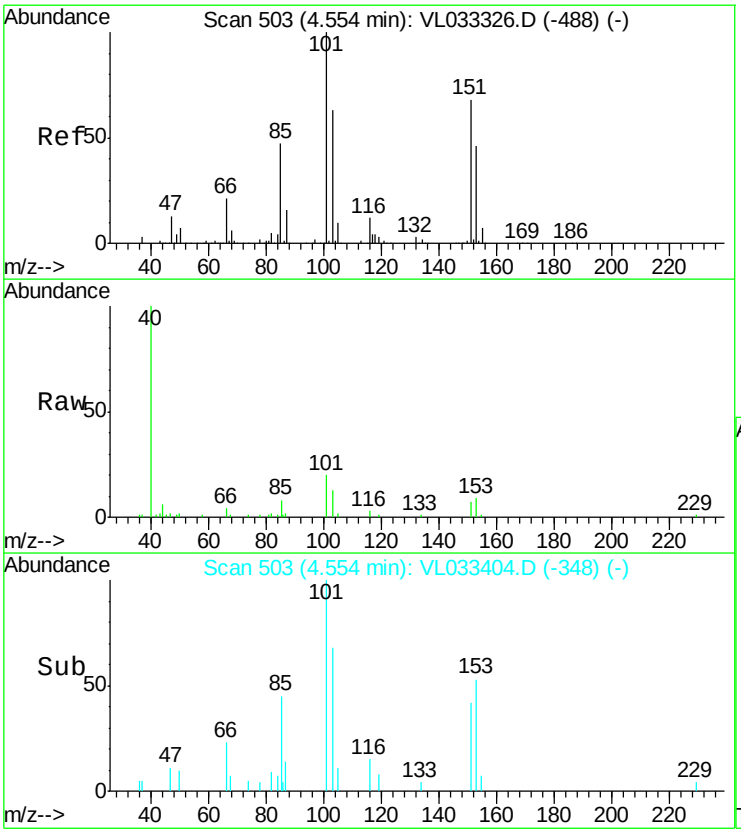
#11
Trichlorofluoromethane
Concen: 0.256 ppbv
RT: 4.00 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion:101 Resp: 35928

Ion	Ratio	Lower	Upper
101	100		
103	57.7	52.9	79.3

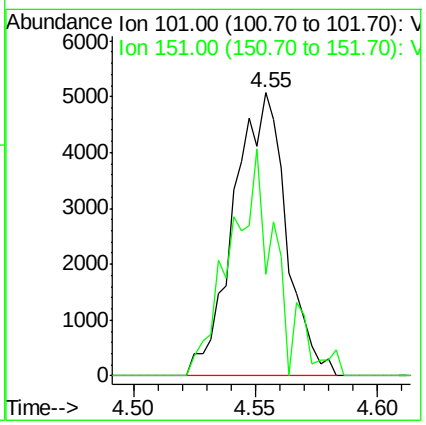


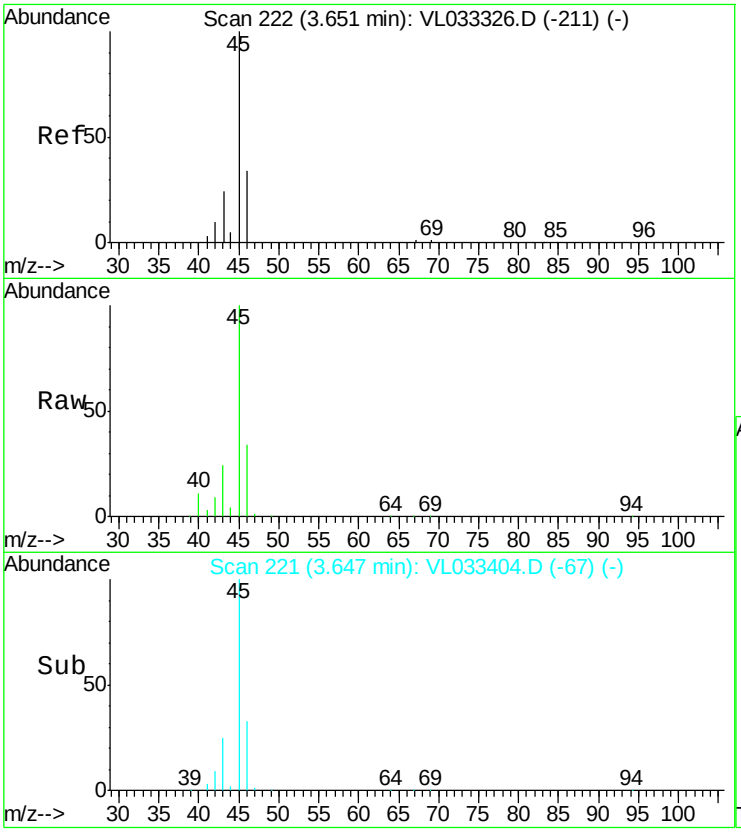


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.081 ppbv
RT: 4.55 min Scan# 503
Delta R.T. -0.00 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion:101 Resp: 7565

Ion	Ratio	Lower	Upper
101	100		
151	71.6	56.3	84.5



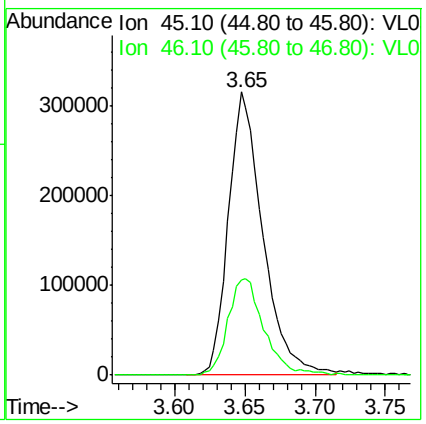


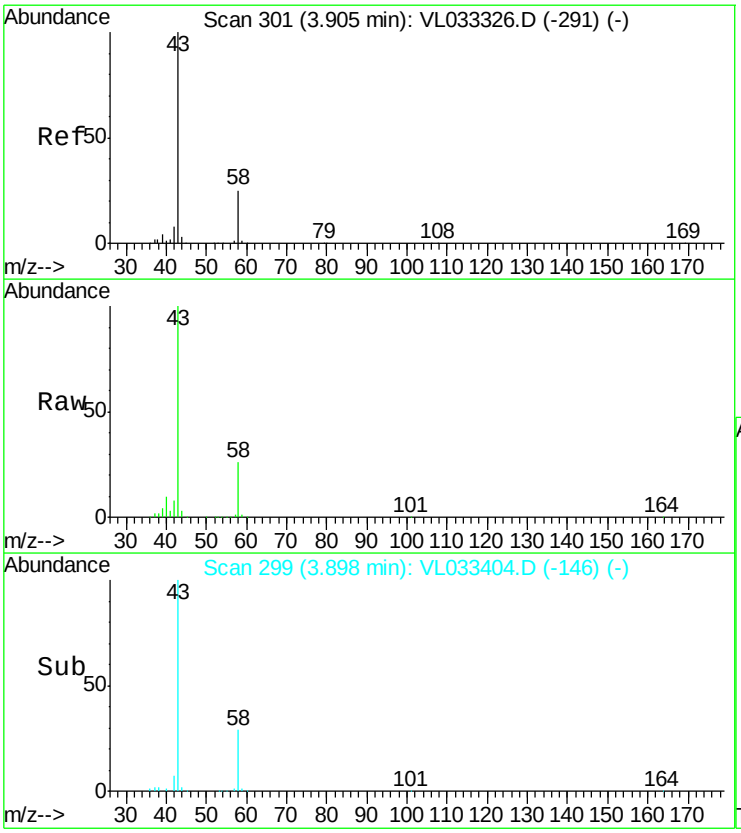
#13
Ethanol
Concen: 27.633 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 45 Resp: 540318

Ion	Ratio	Lower	Upper
45	100		
46	35.9	14.9	59.7

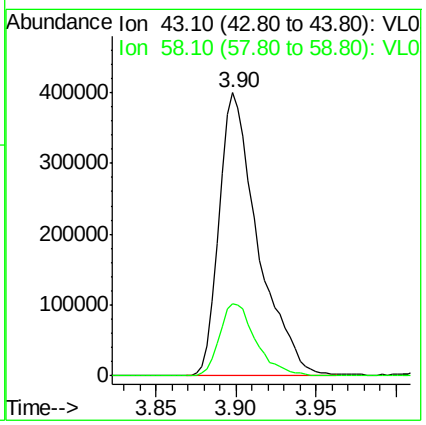


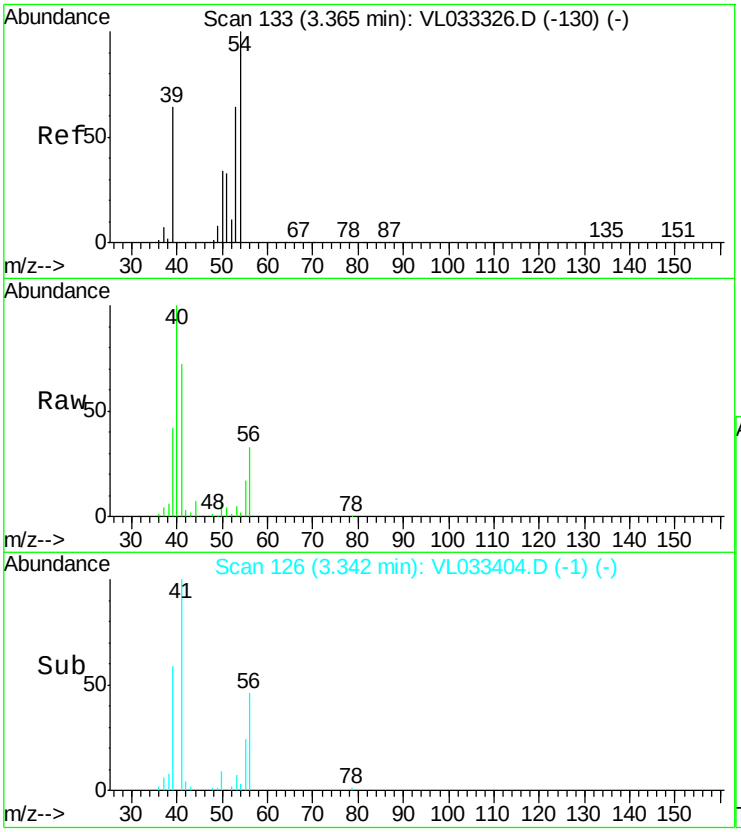


#15
Acetone
Concen: 5.326 ppbv
RT: 3.90 min Scan# 299
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 43 Resp: 662699

Ion	Ratio	Lower	Upper
43	100		
58	24.3	20.4	30.6



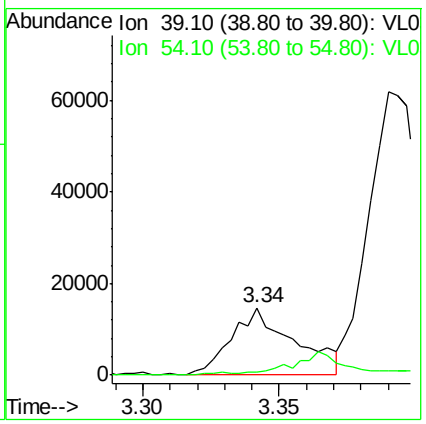


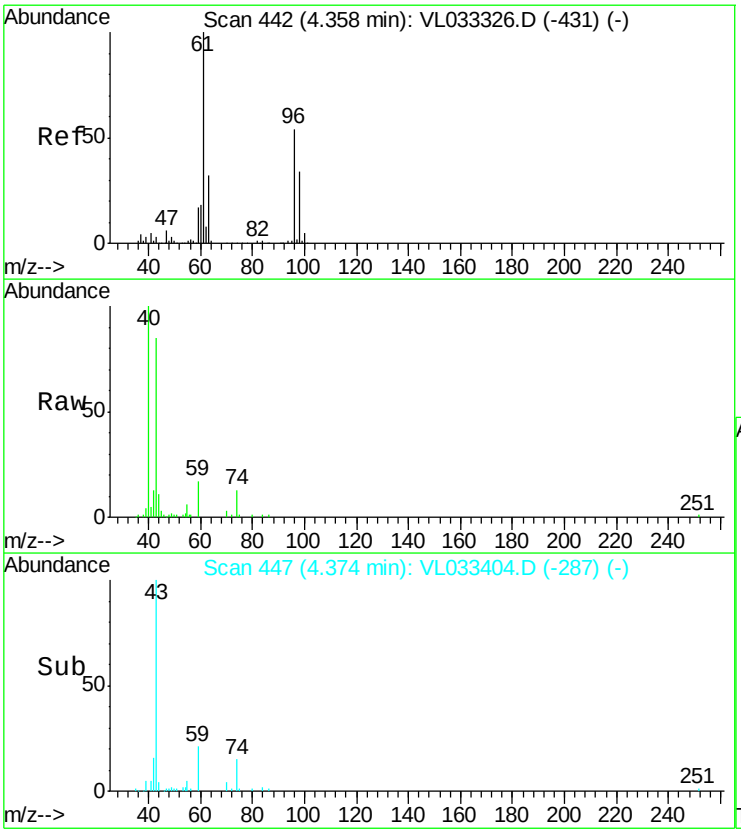
#16
1,3-Butadiene
Concen: 0.581 ppbv
RT: 3.34 min Scan# 126
Delta R.T. -0.02 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 39 Resp: 23503

Ion	Ratio	Lower	Upper
39	100		
54	33.3	76.8	115.2#

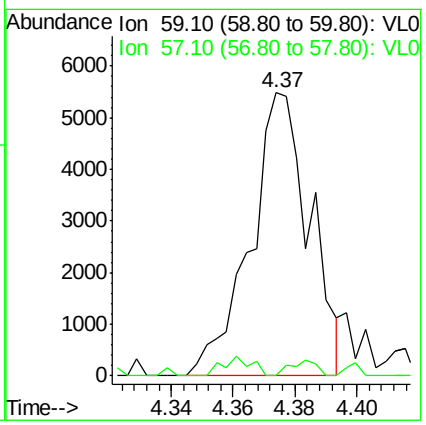


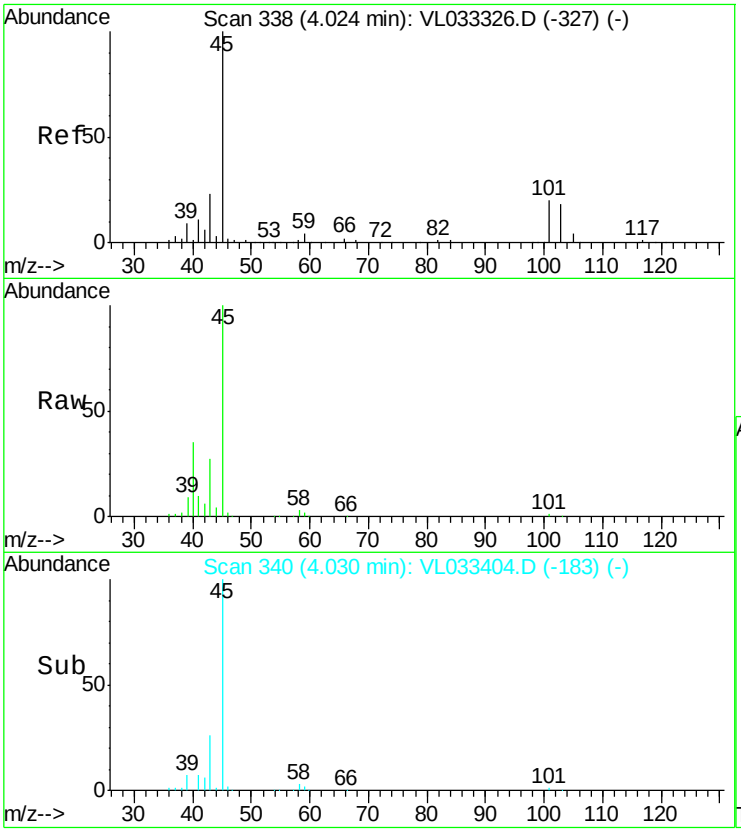


#17
tert-Butyl alcohol
Concen: 0.416 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 59 Resp: 7278

Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.7	11.5#



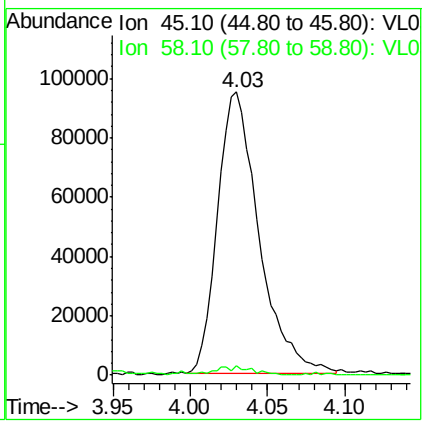


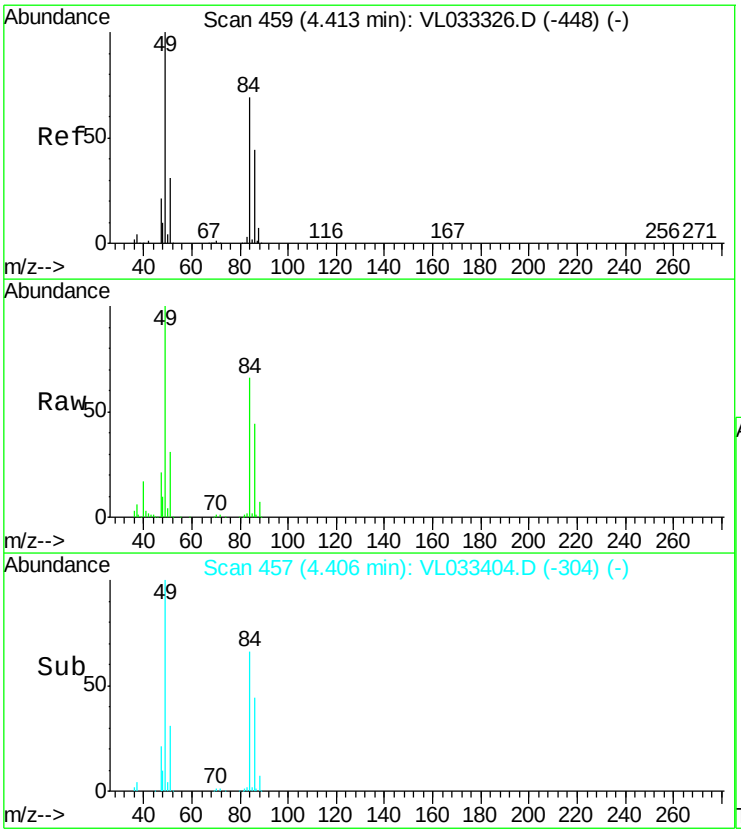
#19
Isopropyl Alcohol
Concen: 2.970 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion: 45 Resp: 175776

Ion	Ratio	Lower	Upper
45	100		
58	2.8	1.5	2.3#

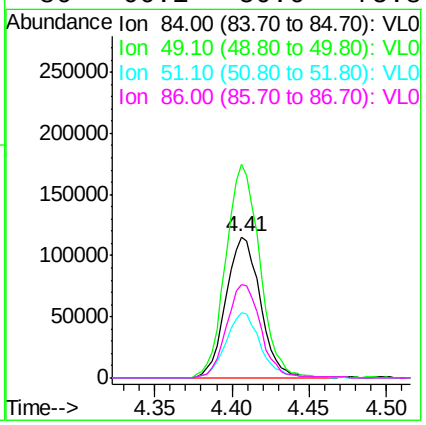


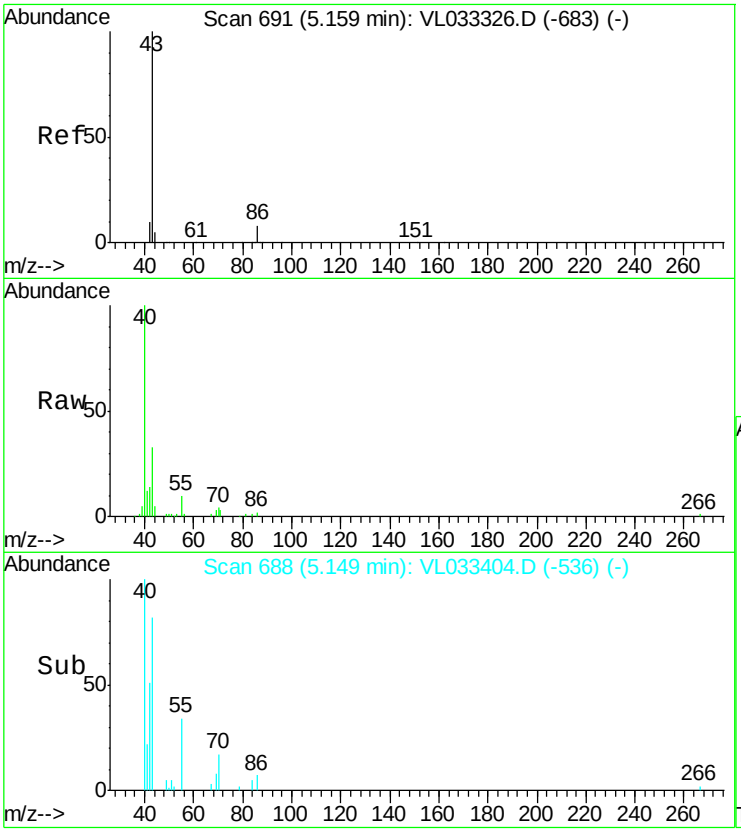


#20
Methylene Chloride
Concen: 4.340 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 84 Resp: 176115

Ion	Ratio	Lower	Upper
84	100		
49	151.6	115.4	173.0
51	46.5	35.8	53.6
86	66.1	50.6	75.8



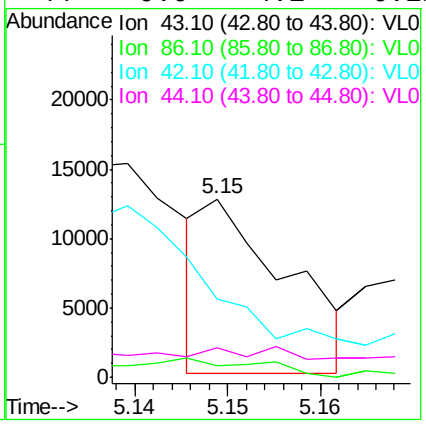


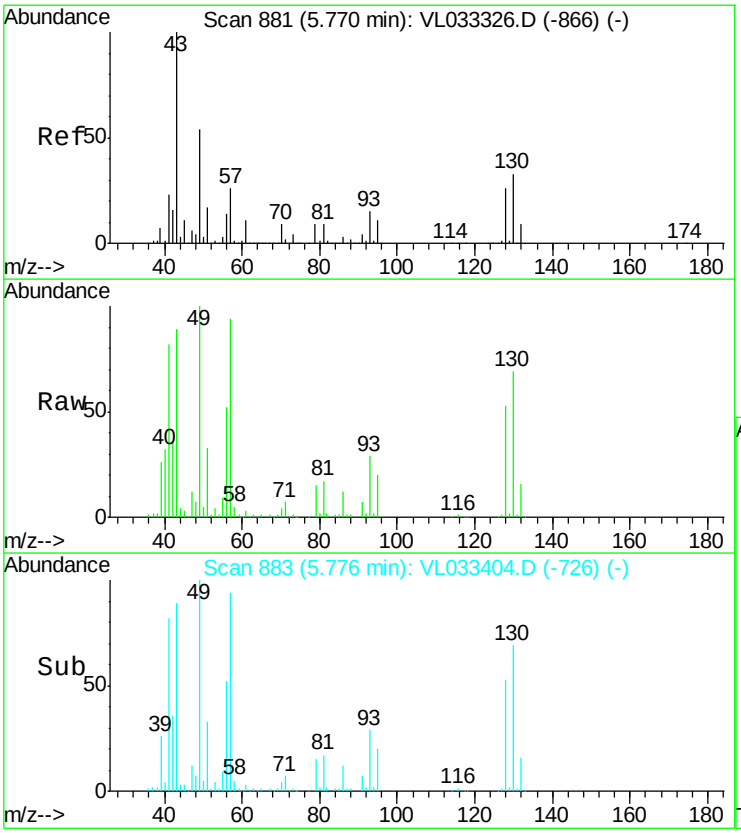
#23
Vinyl Acetate
Concen: 0.054 ppbv
RT: 5.15 min Scan# 688
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion: 43 Resp: 7826

Ion	Ratio	Lower	Upper
43	100		
86	10.5	6.2	9.2#
42	34.7	8.1	12.1#
44	9.0	4.1	6.1#

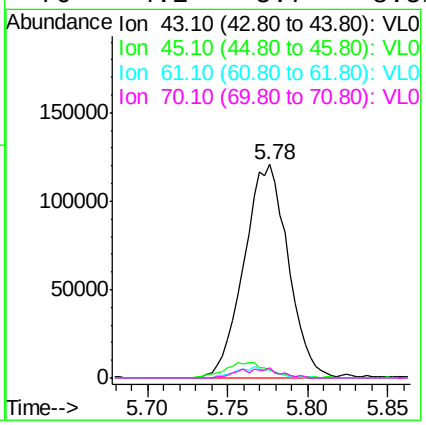


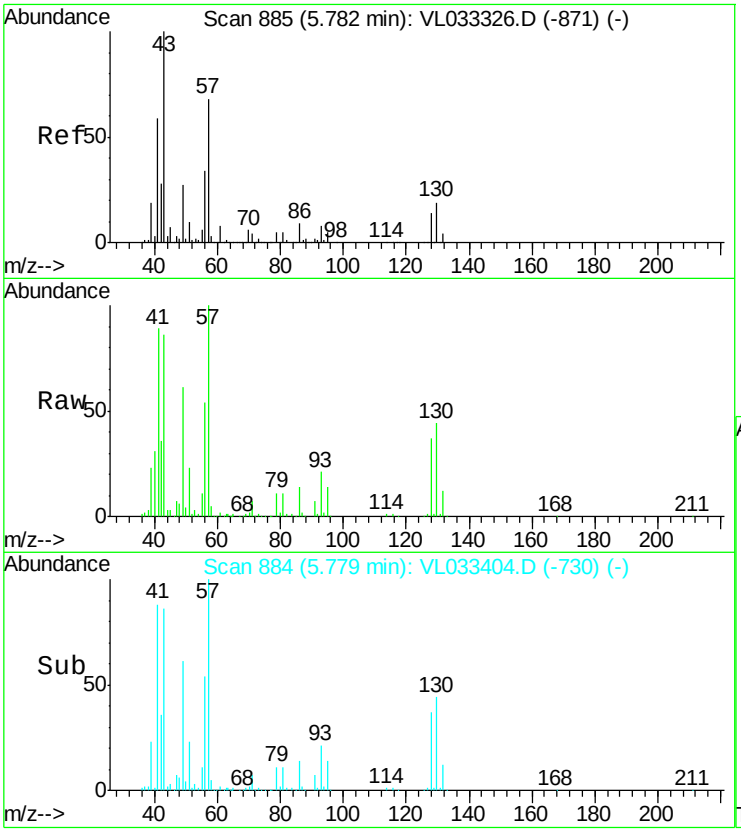


#25
Ethyl Acetate
Concen: 1.266 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 43 Resp: 228964

Ion	Ratio	Lower	Upper
43	100		
45	7.7	7.9	11.9#
61	4.4	7.4	11.2#
70	4.2	5.7	8.5#



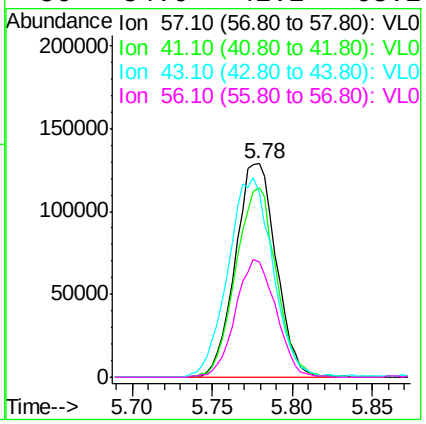


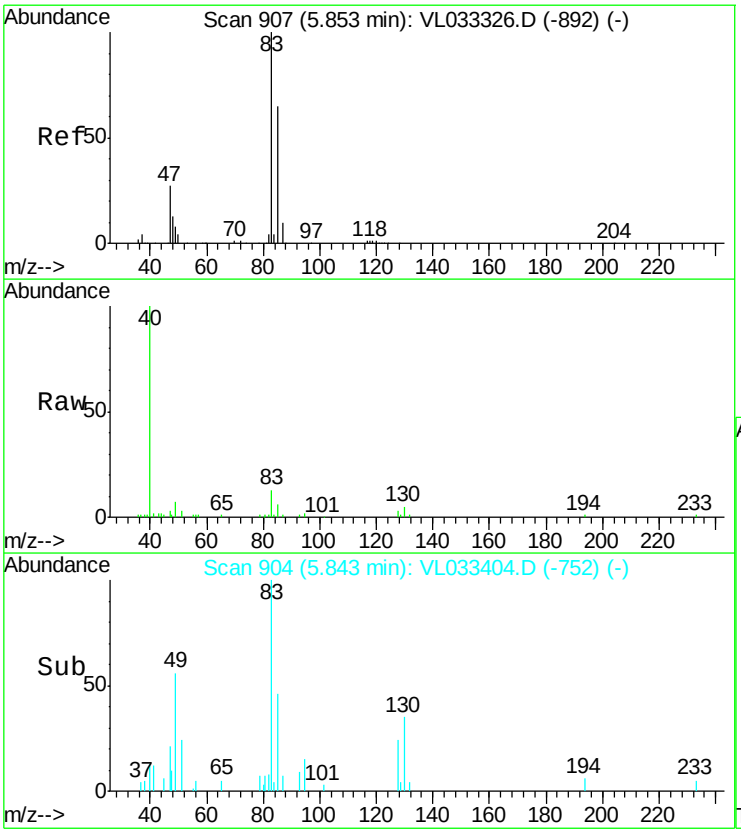
#26
Hexane
Concen: 2.759 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion: 57 Resp: 223128

Ion	Ratio	Lower	Upper
57	100		
41	88.3	70.5	105.7
43	104.3	181.8	272.8#
56	54.6	42.2	63.2

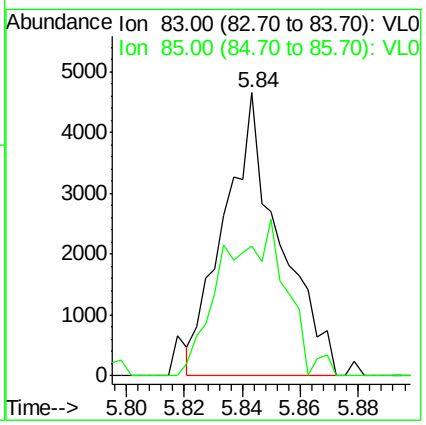


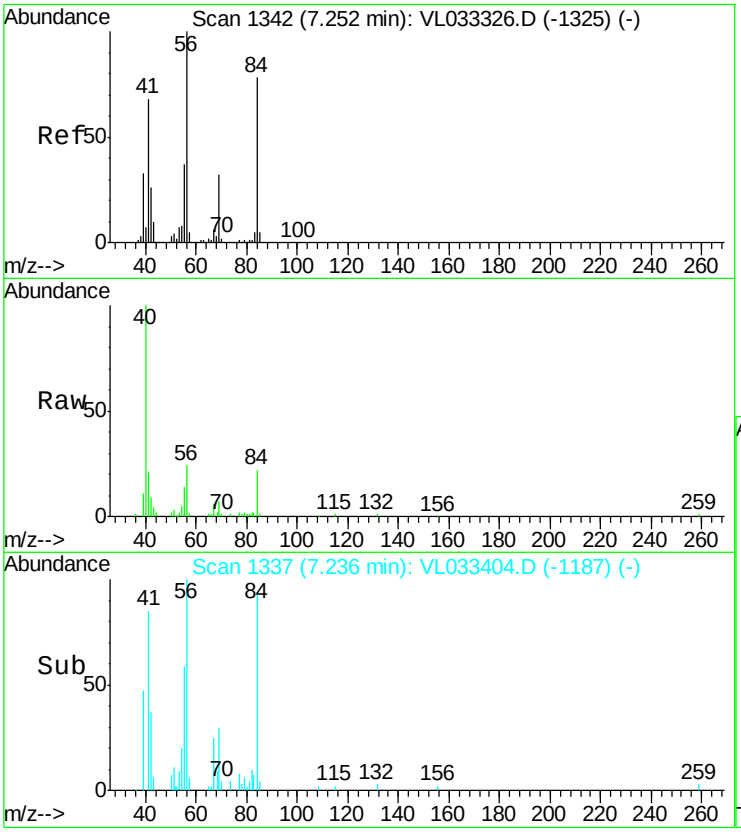


#29
Chloroform
Concen: 0.047 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 83 Resp: 6163

Ion	Ratio	Lower	Upper
83	100		
85	45.9	52.0	78.0#



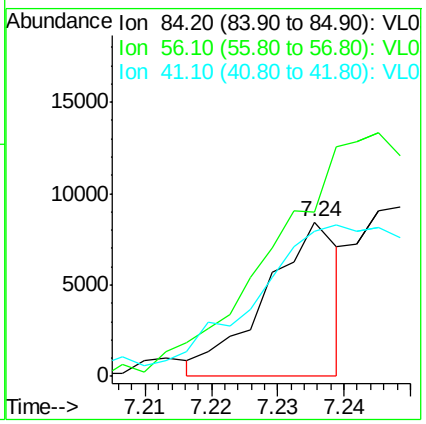


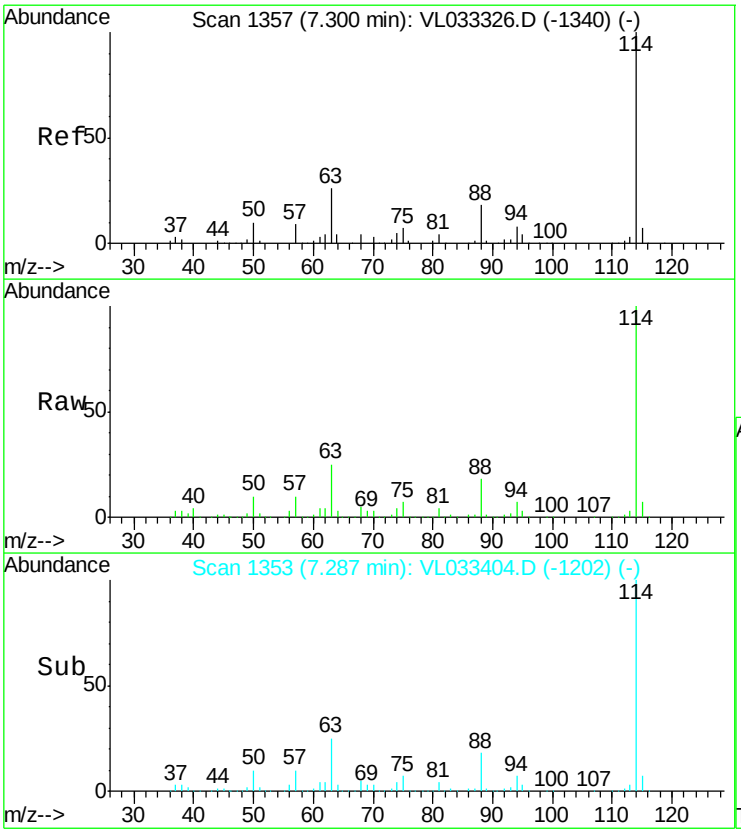
#30
Cyclohexane
Concen: 0.100 ppbv
RT: 7.24 min Scan# 1337
Delta R.T. -0.02 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion: 84 Resp: 6465

Ion	Ratio	Lower	Upper
84	100		
56	0.0	111.3	166.9#
41	308.0	69.6	104.4#

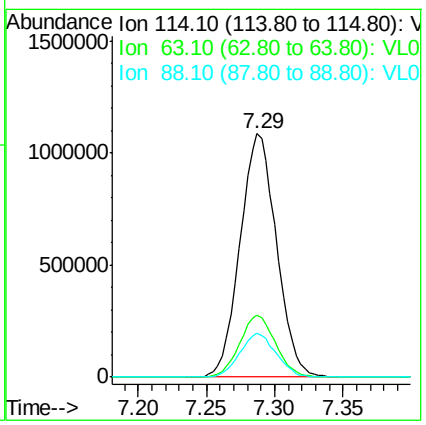


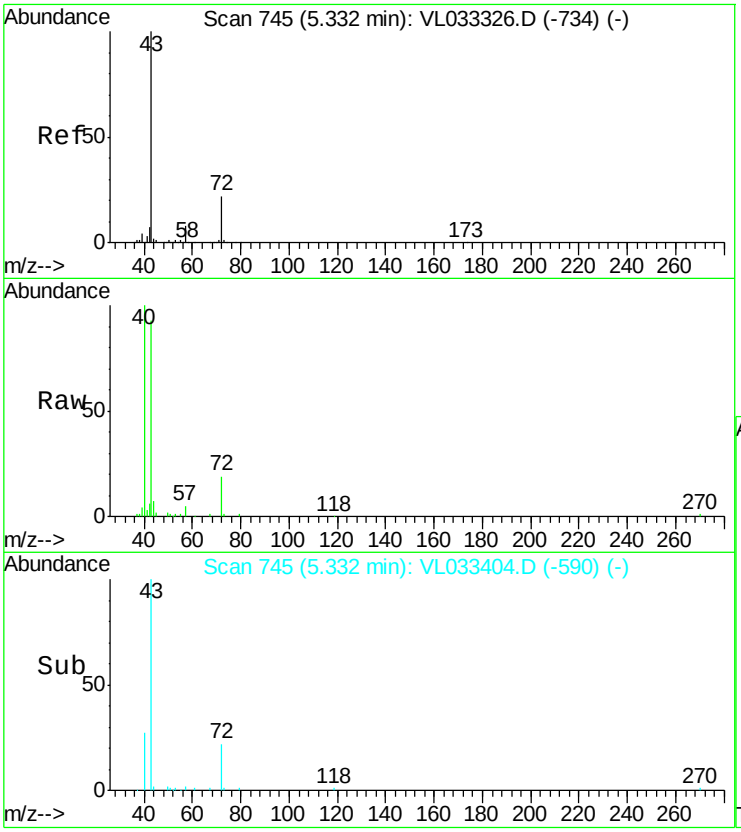


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion:114 Resp: 2011848

Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.4	32.2
88	17.8	14.5	21.7



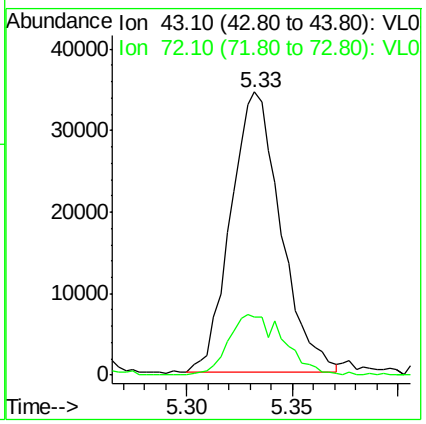


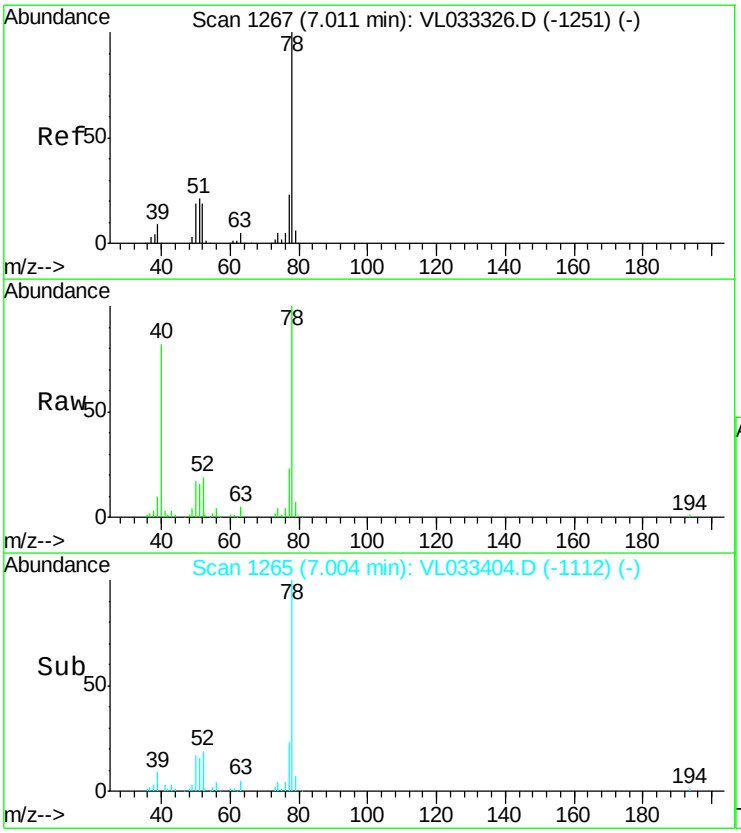
#34
2-Butanone
Concen: 0.431 ppbv
RT: 5.33 min Scan# 745
Delta R.T. -0.00 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion: 43 Resp: 56896

Ion	Ratio	Lower	Upper
43	100		
72	23.7	17.7	26.5

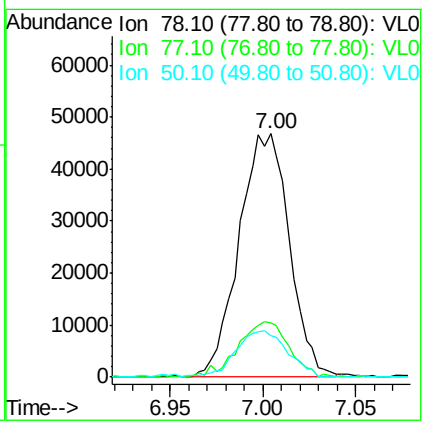


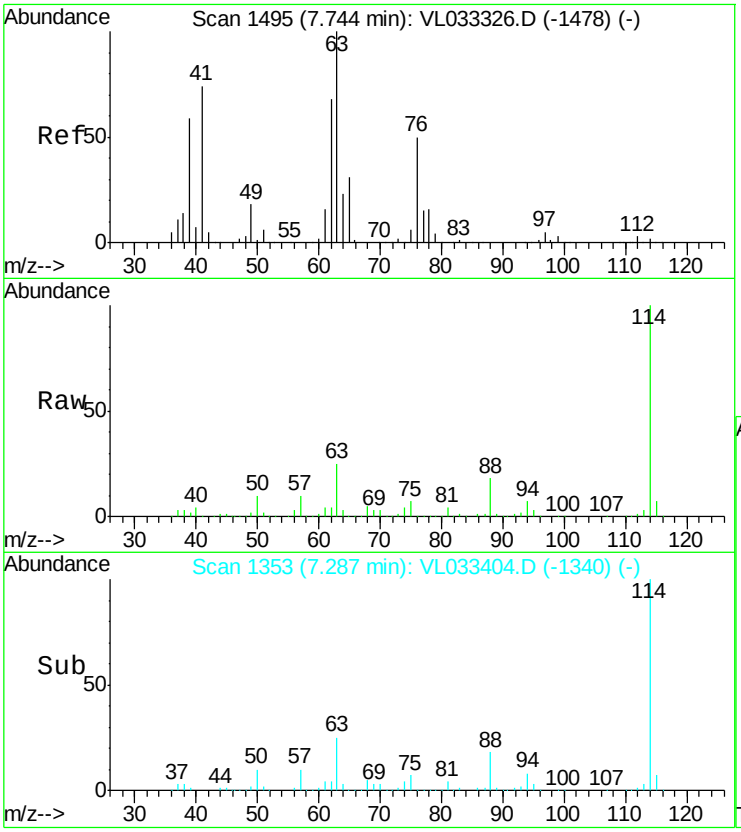


#36
Benzene
Concen: 0.489 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 78 Resp: 88070

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.1	27.1
50	16.9	15.2	22.8



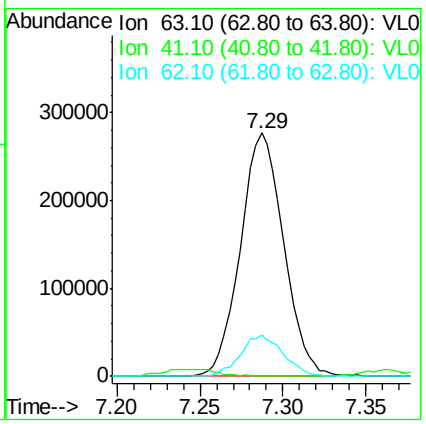


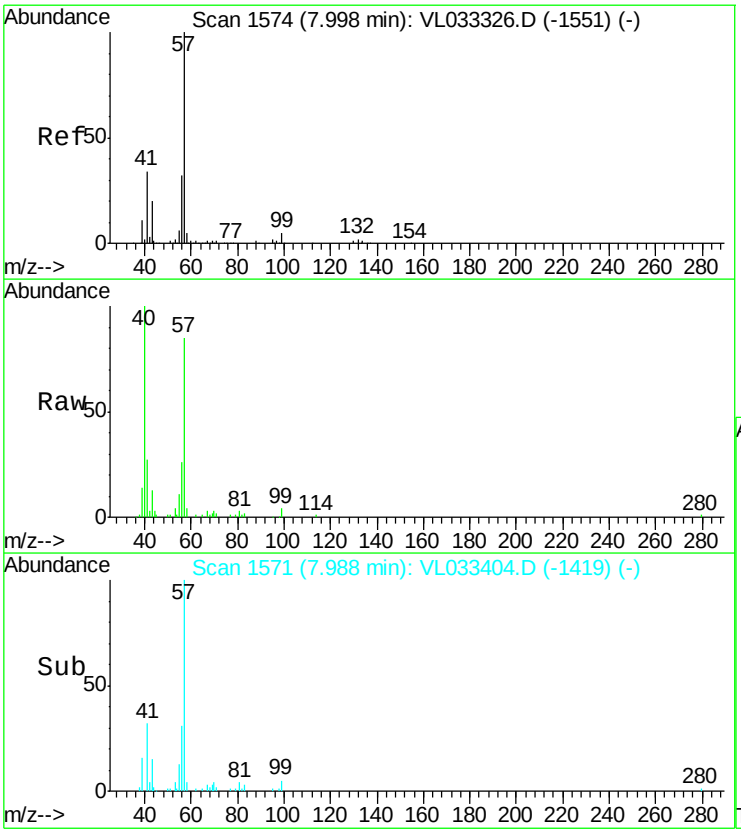
#39
1,2-Dichloropropane
Concen: 7.373 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.46 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion: 63 Resp: 497142

Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.5	89.3#
62	17.2	54.7	82.1#

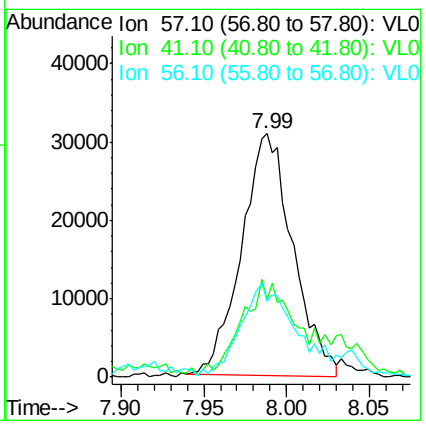


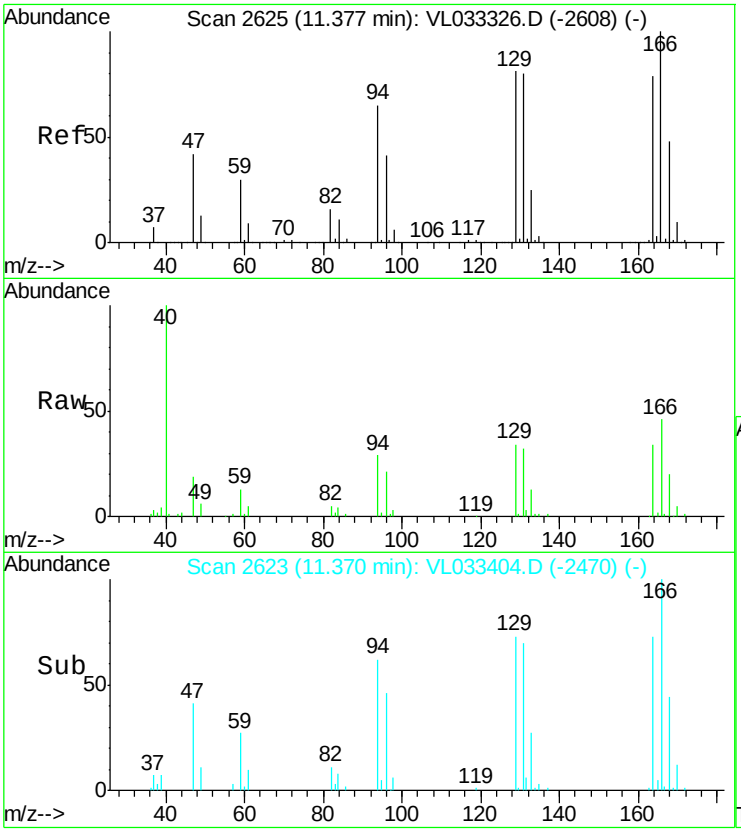


#44
2,2,4-Trimethylpentane
Concen: 0.222 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 57 Resp: 66266

Ion	Ratio	Lower	Upper
57	100		
41	55.3	26.0	39.0#
56	47.3	24.6	36.8#



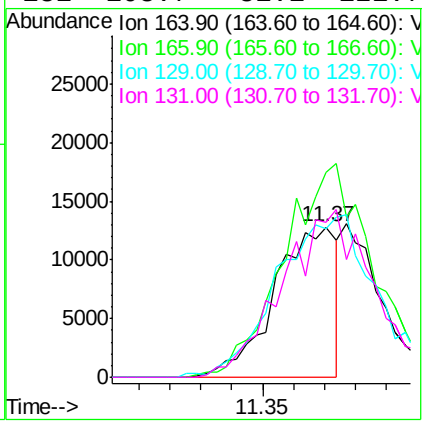


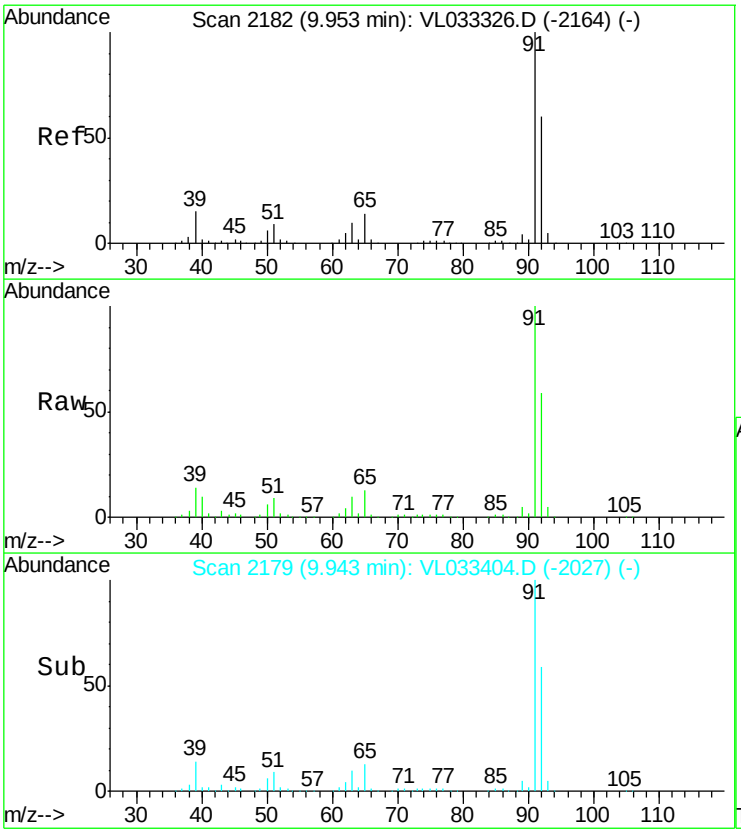
#52
Tetrachloroethene
Concen: 0.237 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion:164 Resp: 17808

Ion	Ratio	Lower	Upper
164	100		
166	136.3	101.5	152.3
129	98.6	82.2	123.2
131	103.7	81.1	121.7

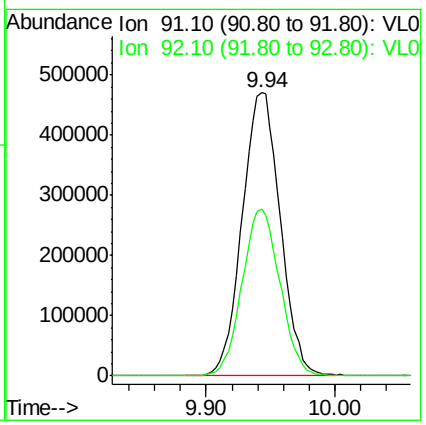


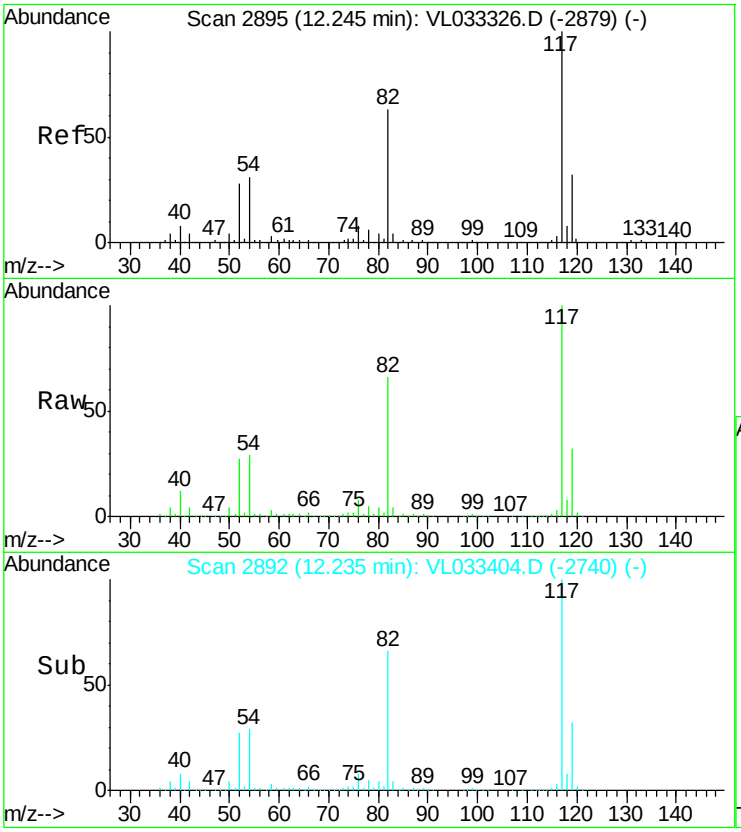


#53
Toluene
Concen: 4.716 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 91 Resp: 964814

Ion	Ratio	Lower	Upper
91	100		
92	58.9	47.4	71.0



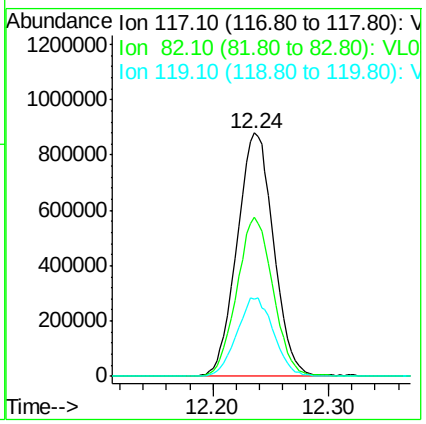


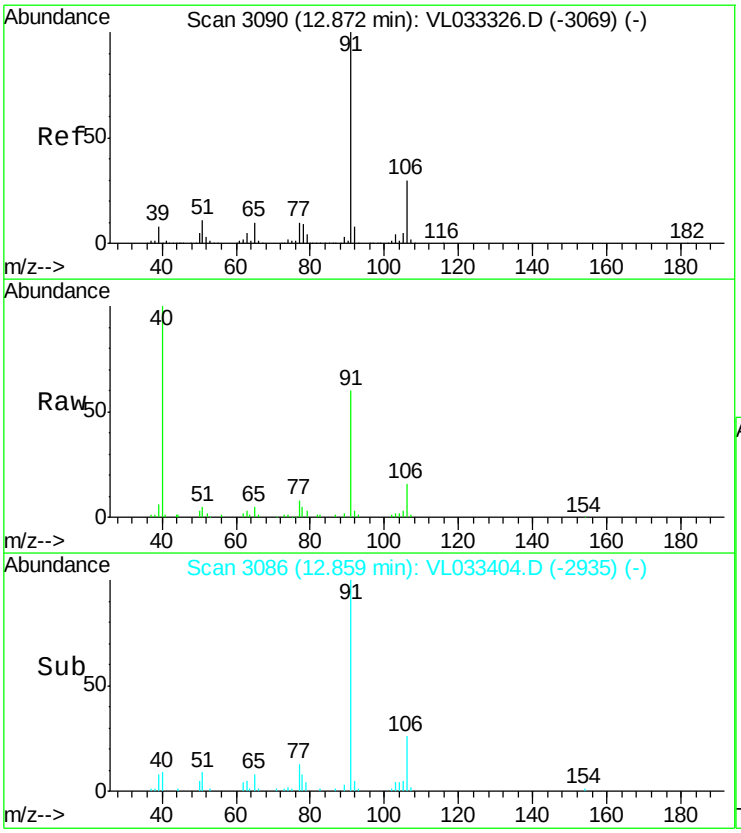
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion:117 Resp: 1928975

Ion	Ratio	Lower	Upper
117	100		
82	64.6	53.4	80.2
119	32.5	27.3	40.9

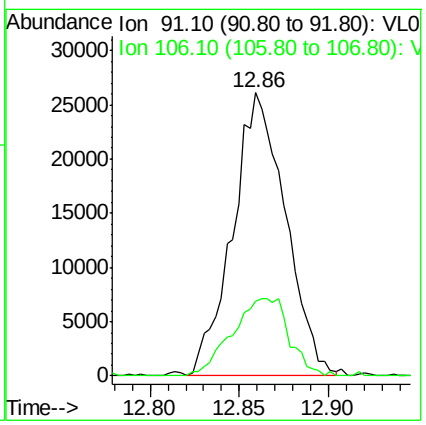


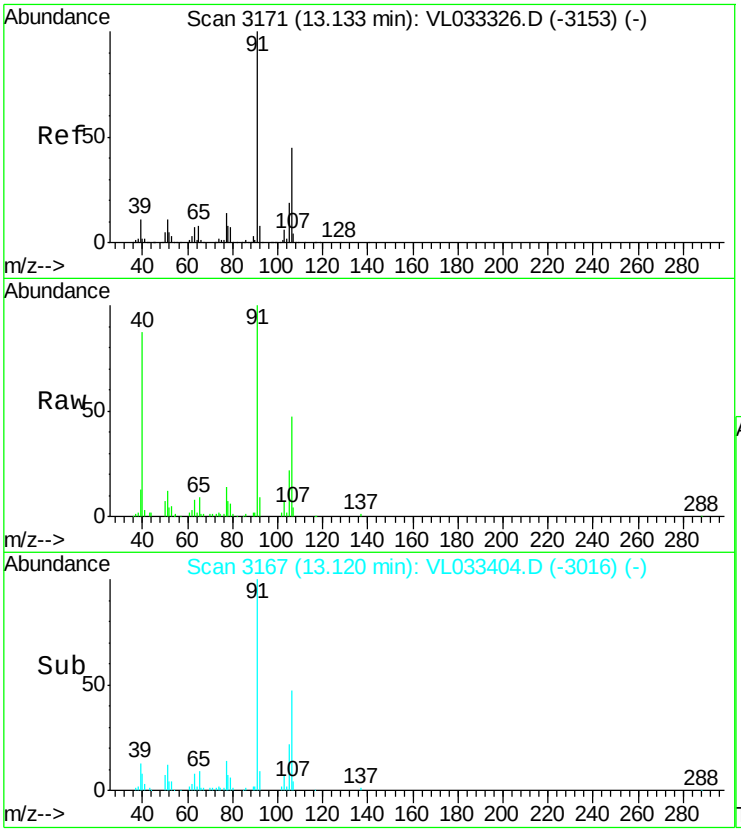


#58
Ethyl Benzene
Concen: 0.198 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 91 Resp: 54048

Ion	Ratio	Lower	Upper
91	100		
106	26.5	24.2	36.2



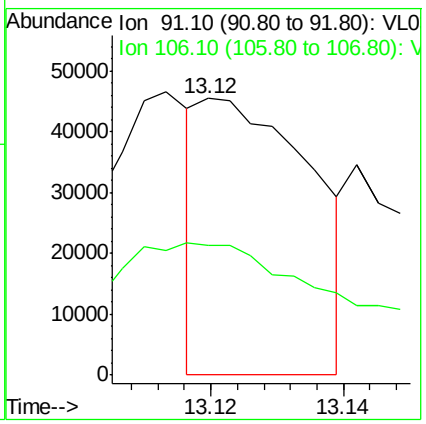


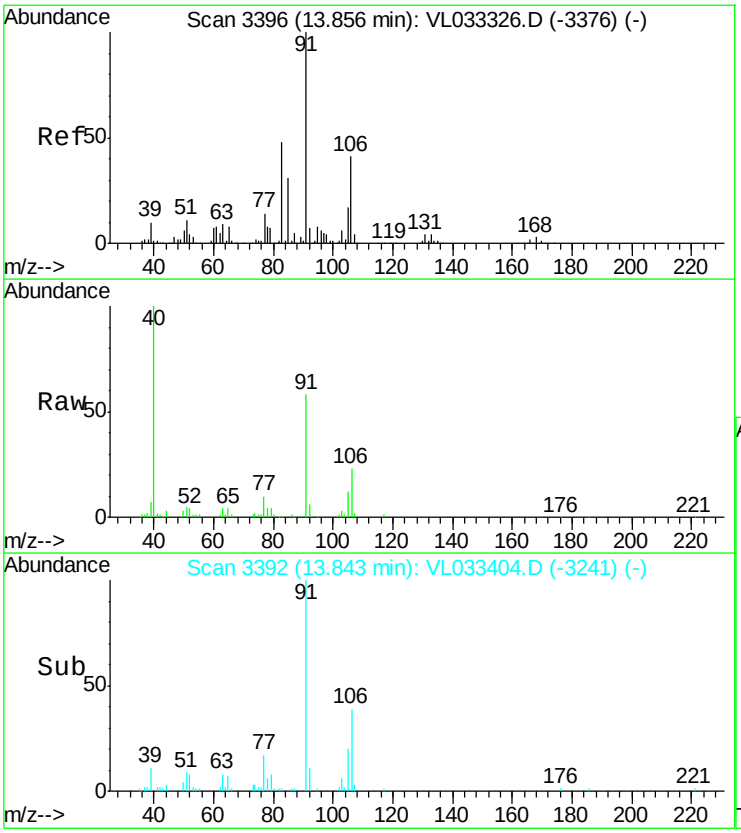
#59
m/p-Xylene
Concen: 0.225 ppbv
RT: 13.12 min Scan# 3167
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion: 91 Resp: 52698

Ion	Ratio	Lower	Upper
91	100		
106	127.6	0.0	0.0#

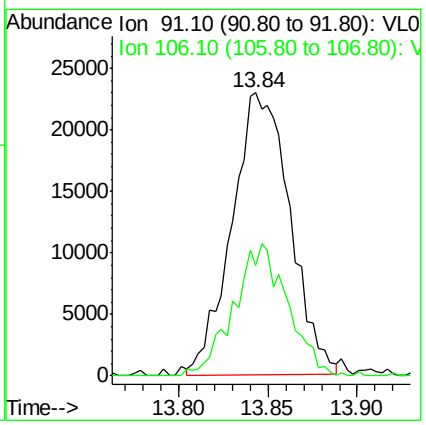


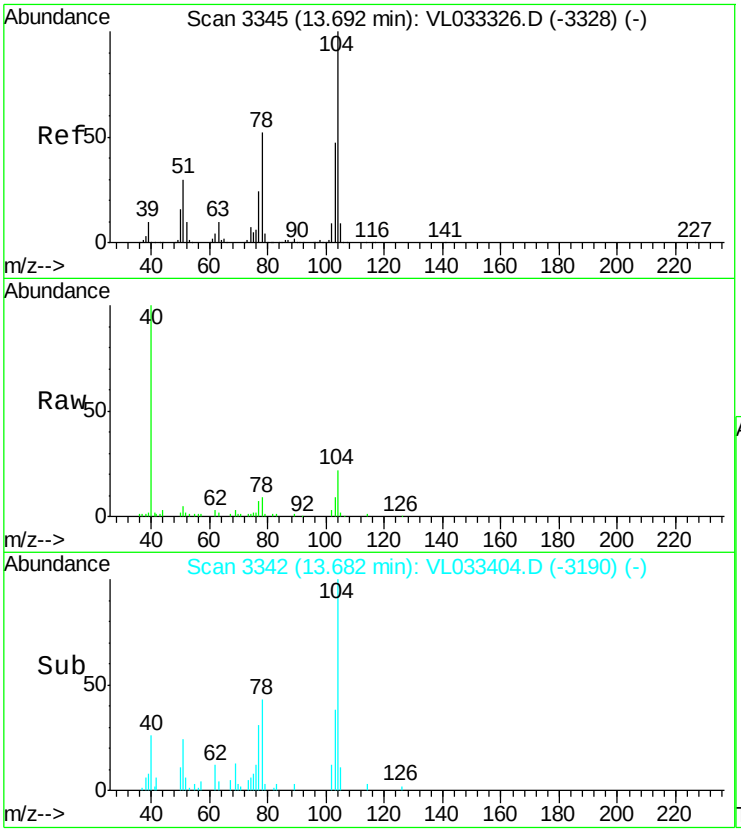


#60
o-Xylene
Concen: 0.228 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 91 Resp: 52080

Ion	Ratio	Lower	Upper
91	100		
106	43.3	21.3	63.9



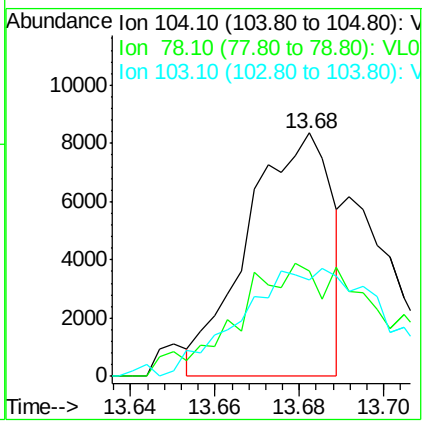


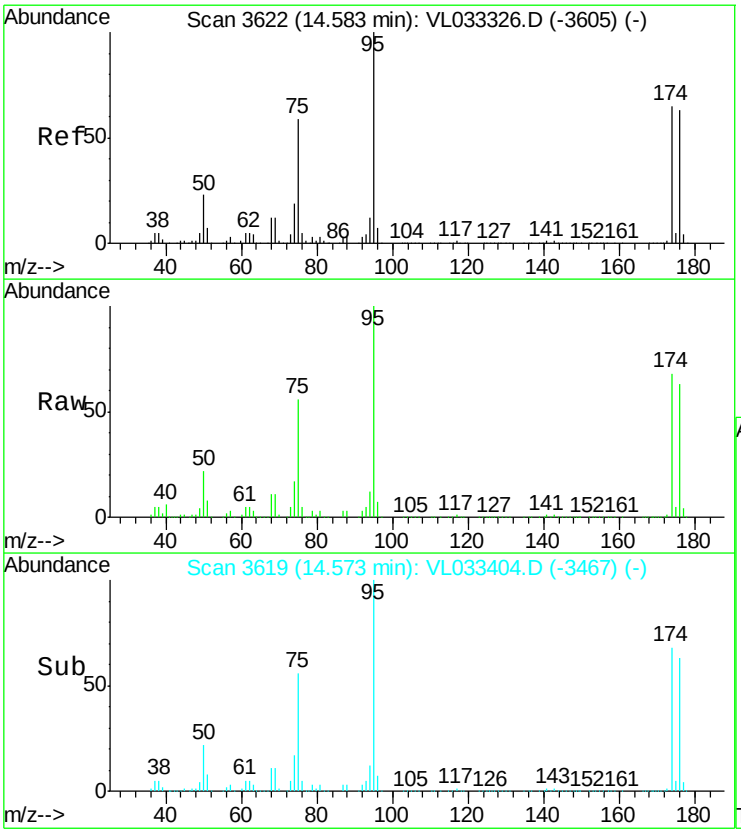
#61
Styrene
Concen: 0.072 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion:104 Resp: 11569

Ion	Ratio	Lower	Upper
104	100		
78	82.5	42.7	64.1#
103	74.3	38.0	57.0#

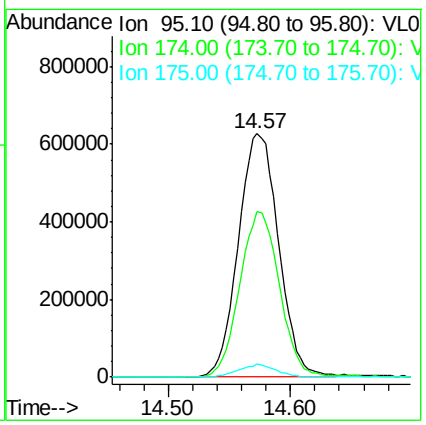


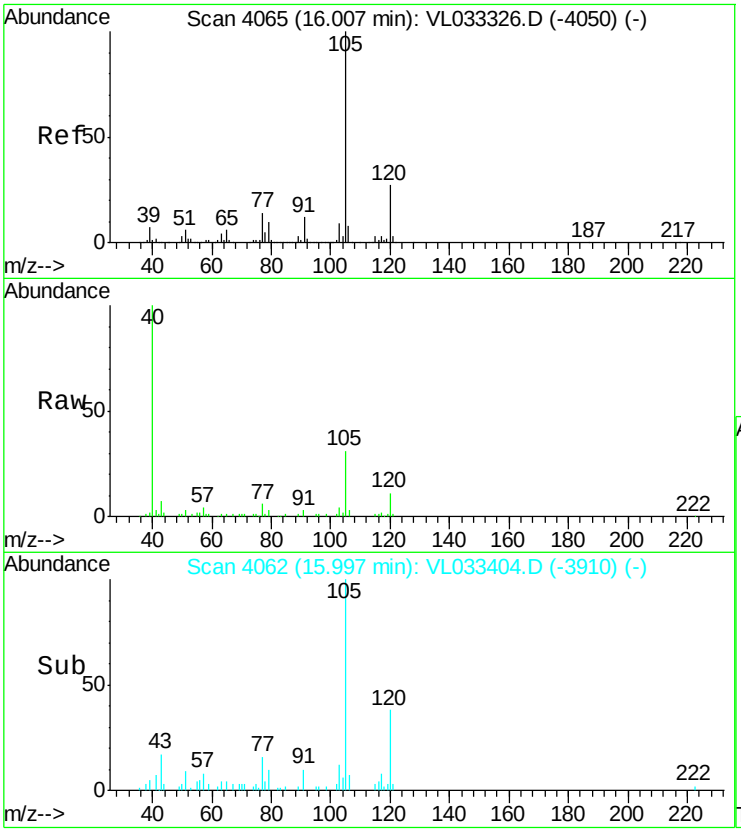


#68
1-Bromo-4-Fluorobenzene
Concen: 9.992 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion: 95 Resp: 1428252

Ion	Ratio	Lower	Upper
95	100		
174	67.8	51.5	77.3
175	4.9	3.8	5.6



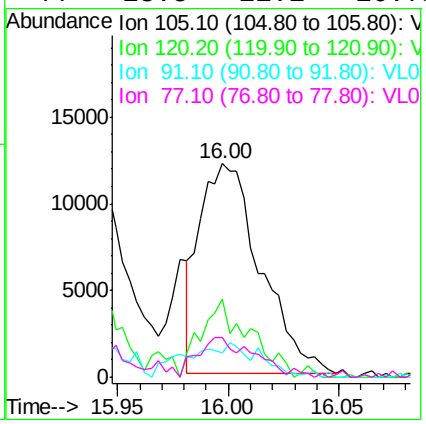


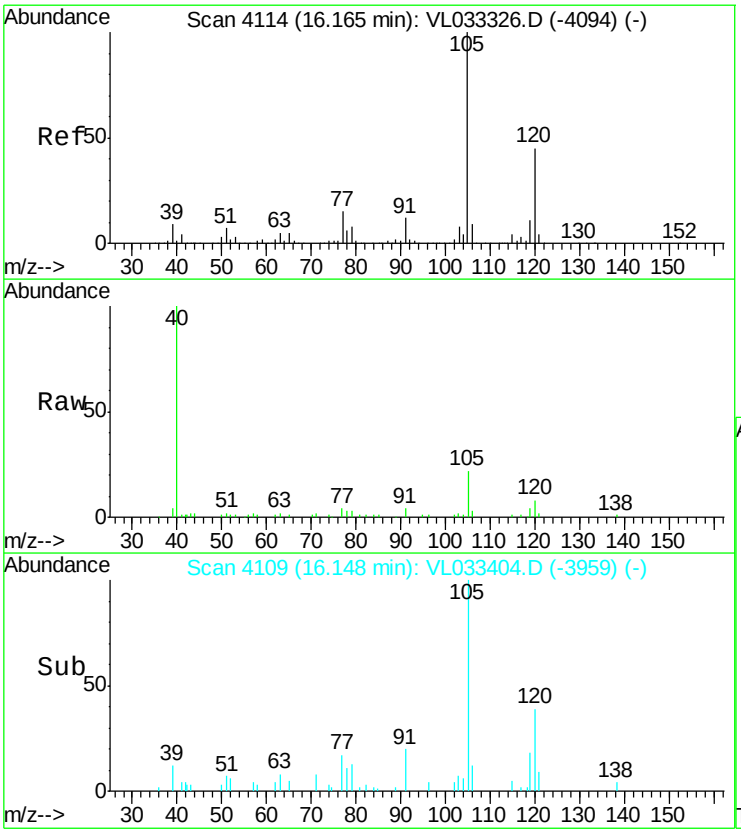
#72
4-Ethyltoluene
Concen: 0.089 ppbv
RT: 16.00 min Scan# 4062
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument : MSVOA_L
ClientSampleId : IA2

Tgt Ion:105 Resp: 23106

Ion	Ratio	Lower	Upper
105	100		
120	30.5	22.9	34.3
91	19.7	10.2	15.2#
77	18.5	11.1	16.7#

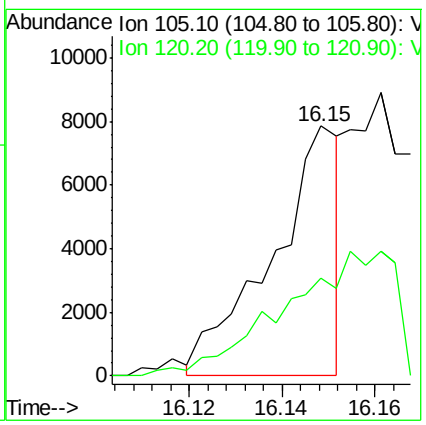


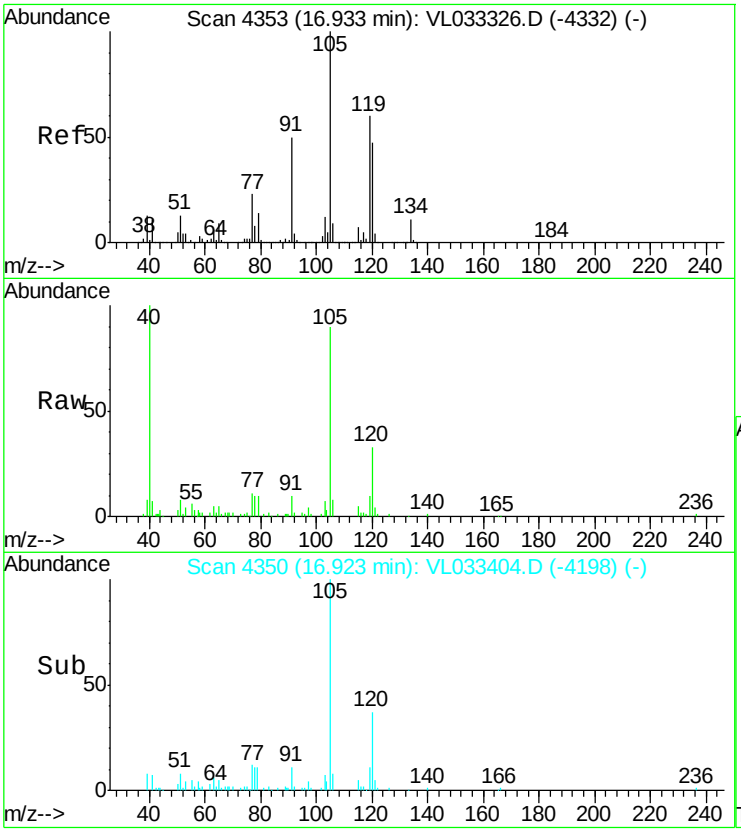


#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 16.15 min Scan# 4109
Delta R.T. -0.02 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion:105 Resp: 7919

Ion	Ratio	Lower	Upper
105	100		
120	38.9	36.2	54.4



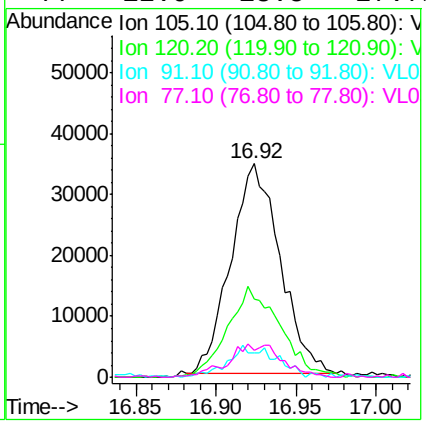


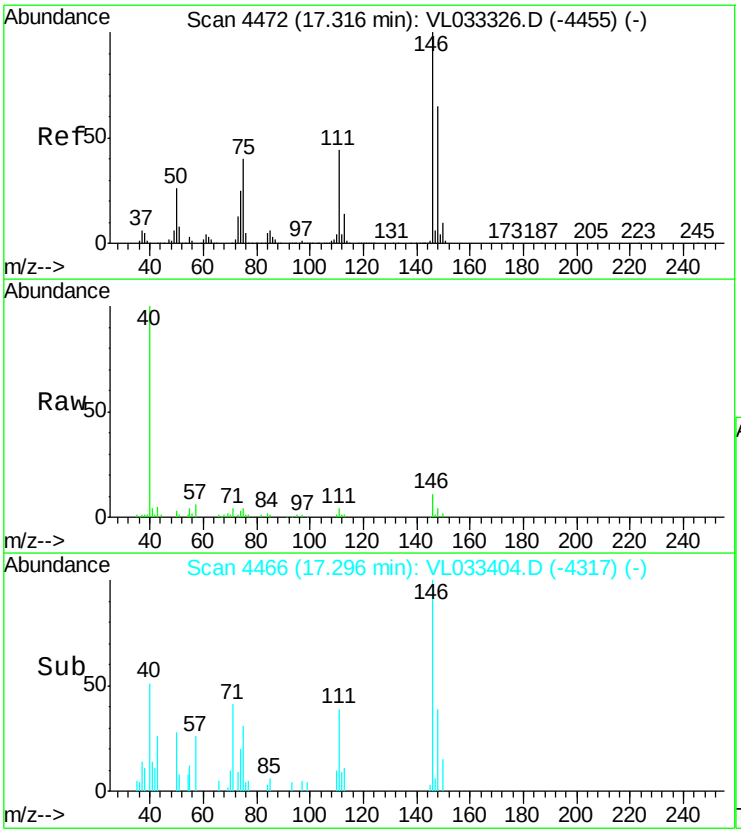
#74
1,2,4-Trimethylbenzene
Concen: 0.271 ppbv
RT: 16.92 min Scan# 4350
Delta R.T. -0.01 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion:105 Resp: 72731

Ion	Ratio	Lower	Upper
105	100		
120	36.1	37.4	56.2#
91	11.4	41.0	61.4#
77	12.9	18.5	27.7#





#76
1,4-Dichlorobenzene
Concen: 0.040 ppbv
RT: 17.30 min Scan# 4466
Delta R.T. -0.02 min
Lab File: VL033404.D
Acq: 21 Mar 2019 00:22

Tgt Ion:146 Resp: 6168

Ion	Ratio	Lower	Upper
146	100		
111	0.0	21.9	65.7#
148	0.0	32.1	96.5#