Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
Data File : VL033402.D
Acq On : 20 Mar 2019 23:04
Operator : SY/AP
Sample : K1976-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA1

Quant Time: Mar 21 12:40:03 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	846962	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.29	114	2140145	10.00	ppbv		-0.01
55) Chlorobenzene-d5	12.24	117	2039832	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.57	95	1489622	9.86	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.08	85	71689	0.481	ppbv		99
3) Chlorodifluoromethane	3.01	51	180011	1.852	ppbv	#	85
4) Chloromethane	3.17	50	32185	0.611	ppbv	#	86
9) Propene	3.24	41	119413	2.752	ppbv		97
10) Heptane	8.25	43	38273	0.356	ppbv		98
11) Trichlorofluoromethane	4.00	101	36547	0.246	ppbv		91
12) 1,1,2-Trichlorotrifluoroet	4.55	101	6528	0.066	ppbv	#	76
13) Ethanol	3.64	45	332039	16.050	ppbv		98
15) Acetone	3.90	43	647618	4.919	ppbv		97
16) 1,3-Butadiene	3.34	39	12627	0.295	ppbv	#	2
19) Isopropyl Alcohol	4.03	45	189127	3.020	ppbv	#	96
20) Methylene Chloride	4.41	84	33157	0.772	ppbv		93
21) Allyl Chloride	4.43	41	2036	0.032	ppbv	#	1
23) Vinyl Acetate	5.14	43	27259	0.179	ppbv	#	30
25) Ethyl Acetate	5.77	43	94009	0.491	ppbv	#	93
26) Hexane	5.78	57	53469	0.625	ppbv	#	81
29) Chloroform	5.84	83	4555	0.033	ppbv	#	79
30) Cyclohexane	7.24	84	19095	0.278	ppbv	#	21
34) 2-Butanone	5.33	43	52487	0.373	ppbv		96
35) Carbon Tetrachloride	7.13	117	5885	0.039	ppbv		94
36) Benzene	7.00	78	45570	0.238	ppbv		96
39) 1,2-Dichloropropane	7.29	63	523116	7.293	ppbv	#	24
43) Methyl Methacrylate	8.13	69	2476	0.033	ppbv	#	1
44) 2,2,4-Trimethylpentane	7.98	57	35924	0.113	ppbv	#	12
52) Tetrachloroethene	11.37	164	3091275	38.741	ppbv		99
53) Toluene	9.94	91	493006	2.265	ppbv		99
58) Ethyl Benzene	12.86	91	79237	0.275	ppbv		97
59) m/p-Xylene	13.12	91	146629	0.591	ppbv	#	100
60) o-Xylene	13.85	91	37564	0.155	ppbv	#	37
61) Styrene	13.68	104	16559	0.098	ppbv		96
64) n-propylbenzene	15.72	120	3979	0.047	ppbv	#	1
72) 4-Ethyltoluene	16.00	105	40741	0.148	ppbv	#	92
73) 1,3,5-Trimethylbenzene	16.15	105	42581	0.159	ppbv		92
74) 1,2,4-Trimethylbenzene	16.92	105	132151	0.466	ppbv	#	70
79) Naphthalene	22.41	128	10504	0.038	ppbv	#	76
80) Naphthalene,2-methyl-	25.12	142	8676	0.067	ppbv	#	87

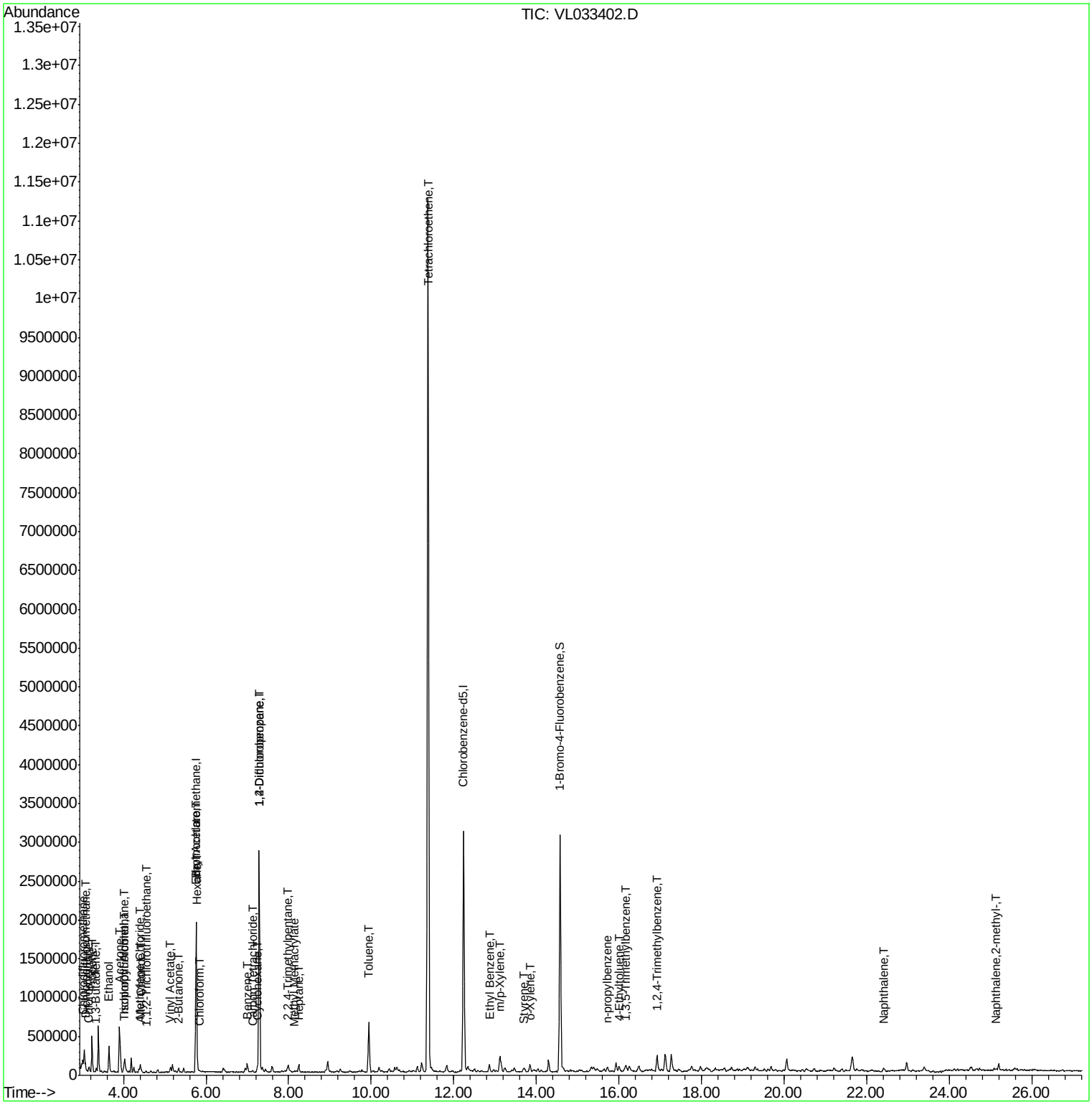
(#) = qualifier out of range (m) = manual integration (+) = signals summed

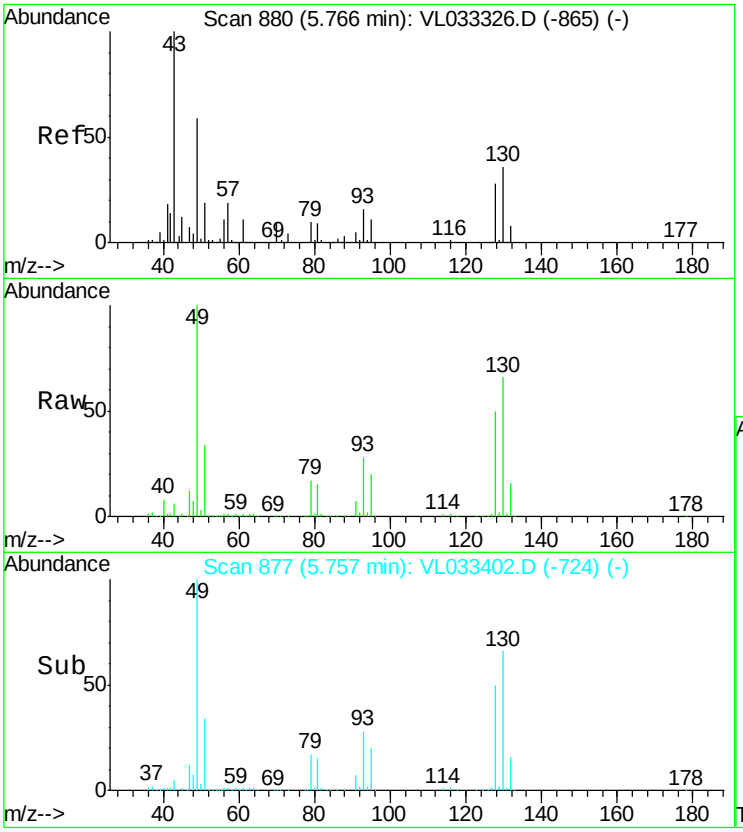
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
Data File : VL033402.D
Acq On : 20 Mar 2019 23:04
Operator : SY/AP
Sample : K1976-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA1

Quant Time: Mar 21 12:40:03 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



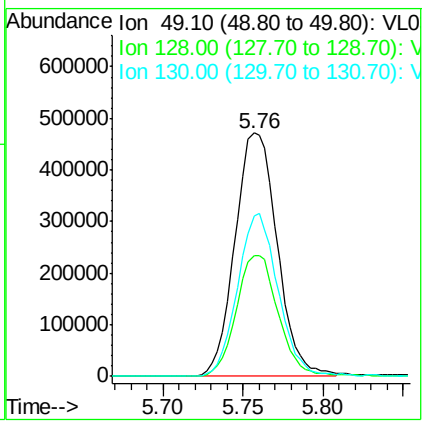


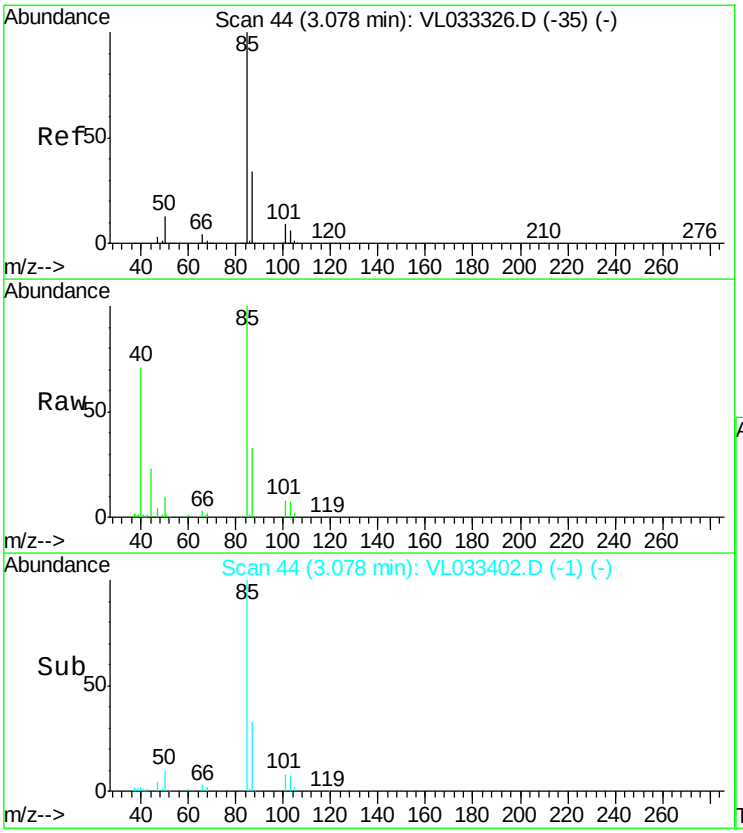
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 846962

Ion	Ratio	Lower	Upper
49	100		
128	49.7	23.5	70.6
130	65.1	30.1	90.3

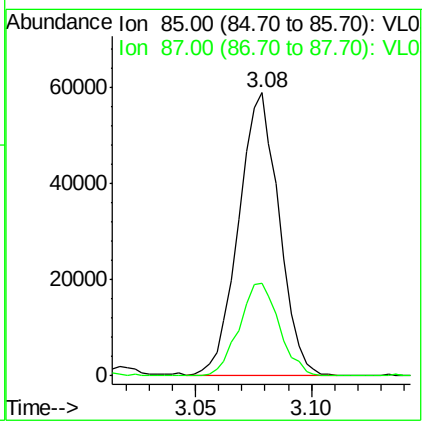


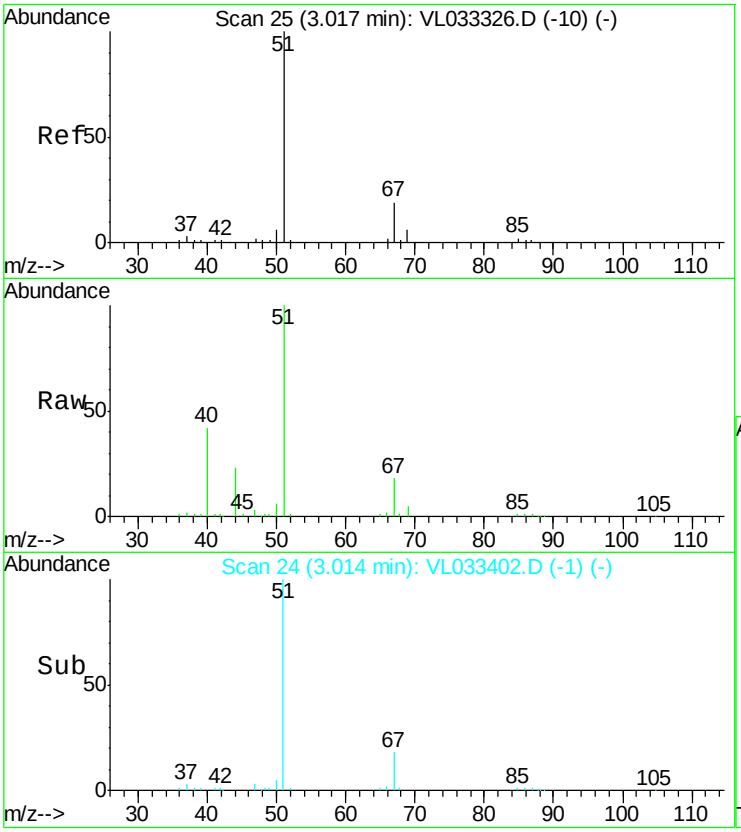


#2
Dichlorodifluoromethane
Concen: 0.481 ppbv
RT: 3.08 min Scan# 44
Delta R.T. -0.00 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 85 Resp: 71689

Ion	Ratio	Lower	Upper
85	100		
87	32.9	26.9	40.3



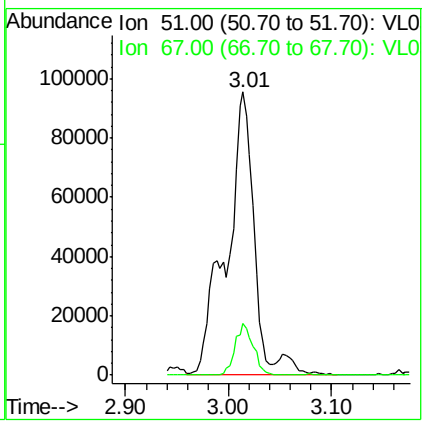


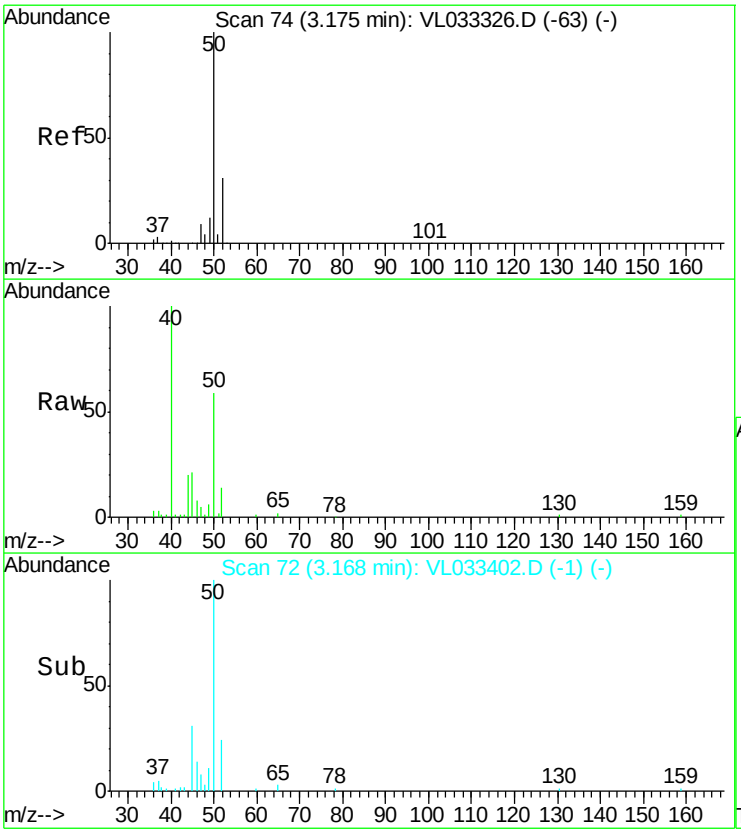
#3
Chlorodifluoromethane
Concen: 1.852 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 51 Resp: 180011

Ion	Ratio	Lower	Upper
51	100		
67	11.9	14.9	22.3#

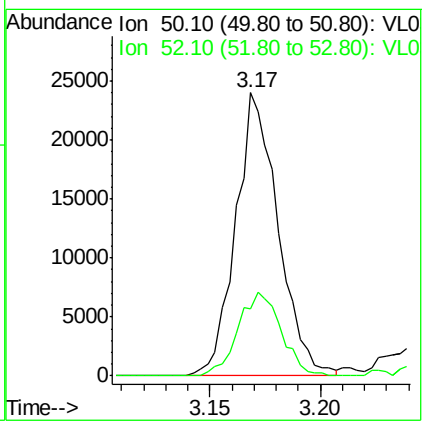


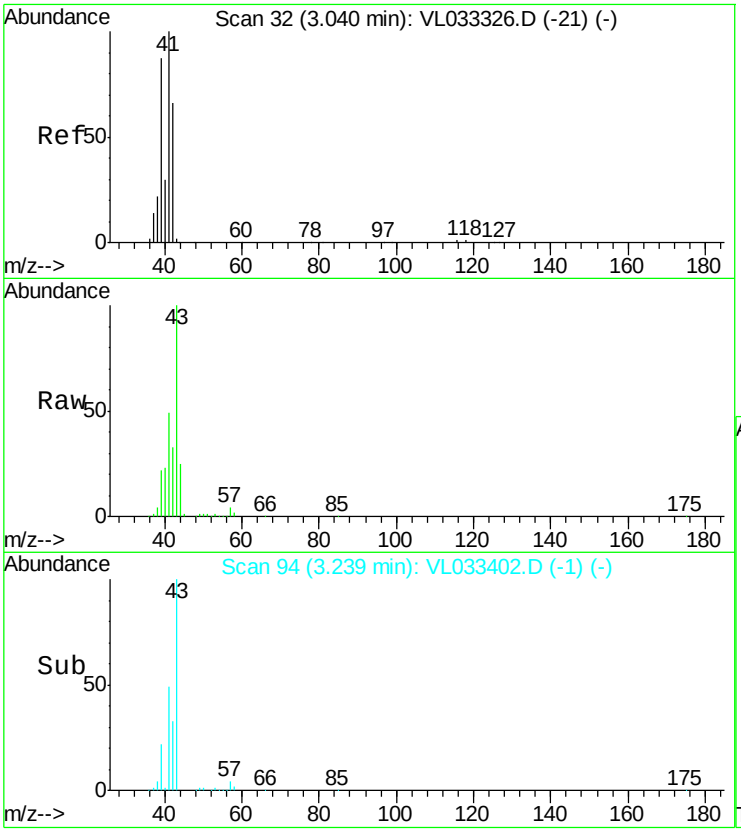


#4
Chloromethane
Concen: 0.611 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 50 Resp: 32185

Ion	Ratio	Lower	Upper
50	100		
52	23.7	25.0	37.6#



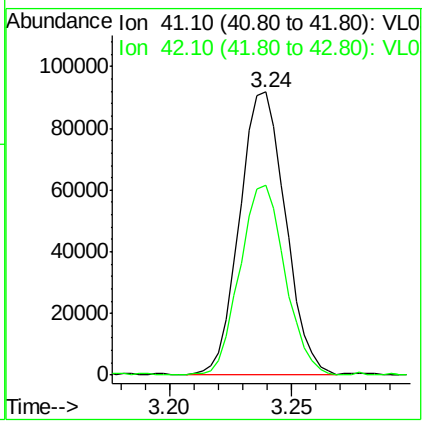


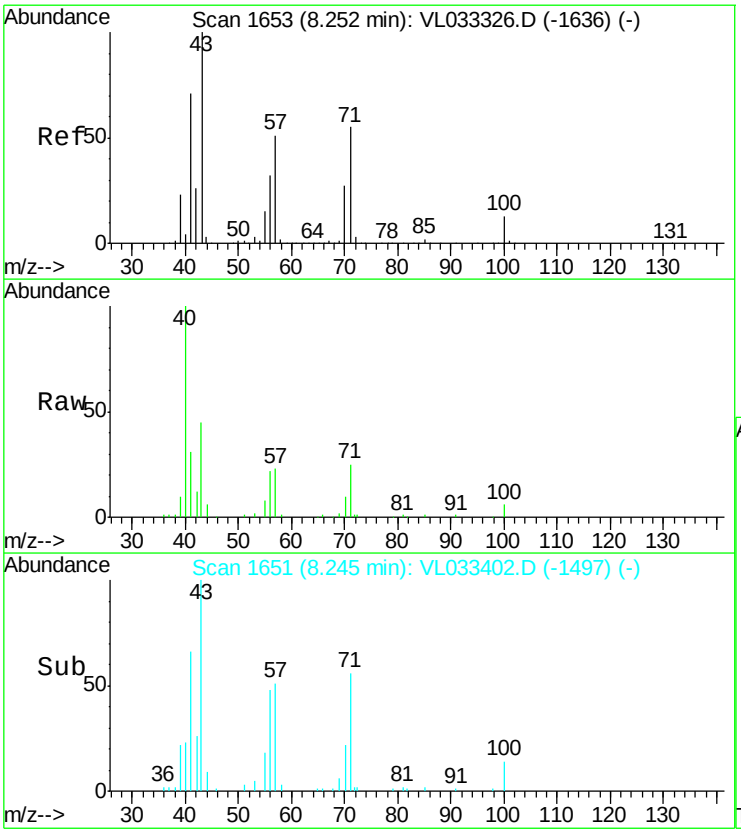
#9
Propene
Concen: 2.752 ppbv
RT: 3.24 min Scan# 94
Delta R.T. 0.20 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 41 Resp: 119413

Ion	Ratio	Lower	Upper
41	100		
42	66.6	55.2	82.8

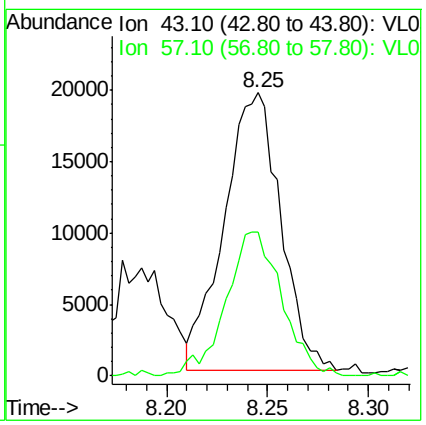


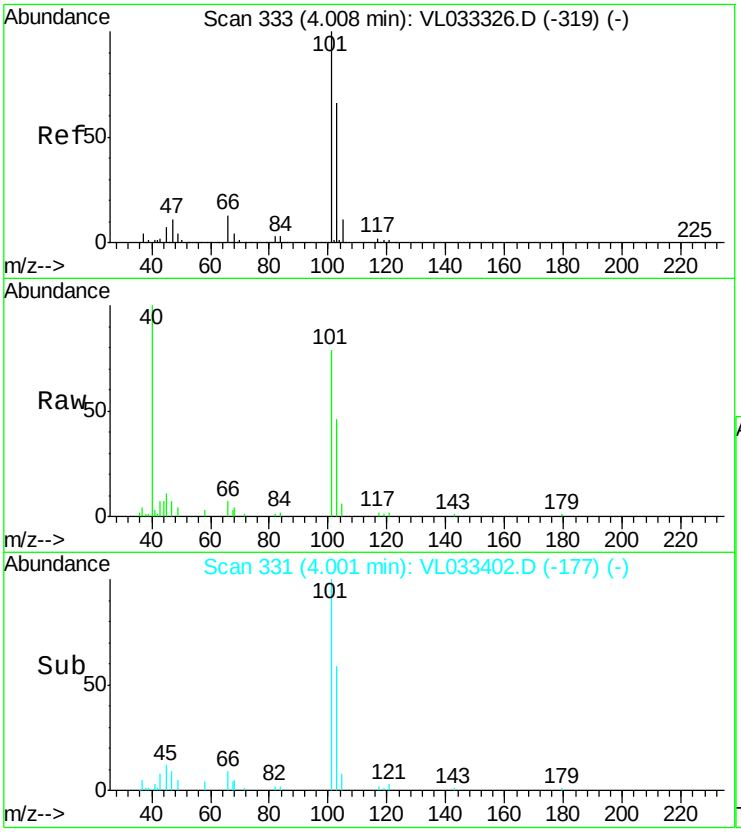


#10
Heptane
Concen: 0.356 ppbv
RT: 8.25 min Scan# 1651
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 43 Resp: 38273

Ion	Ratio	Lower	Upper
43	100		
57	51.6	40.4	60.6



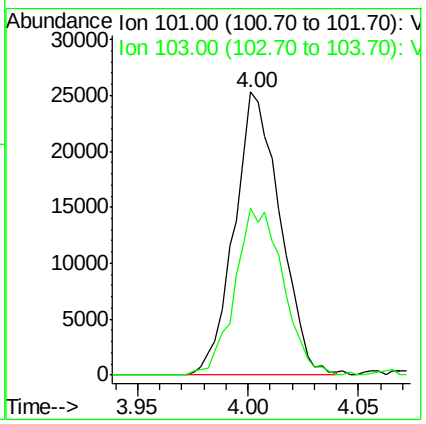


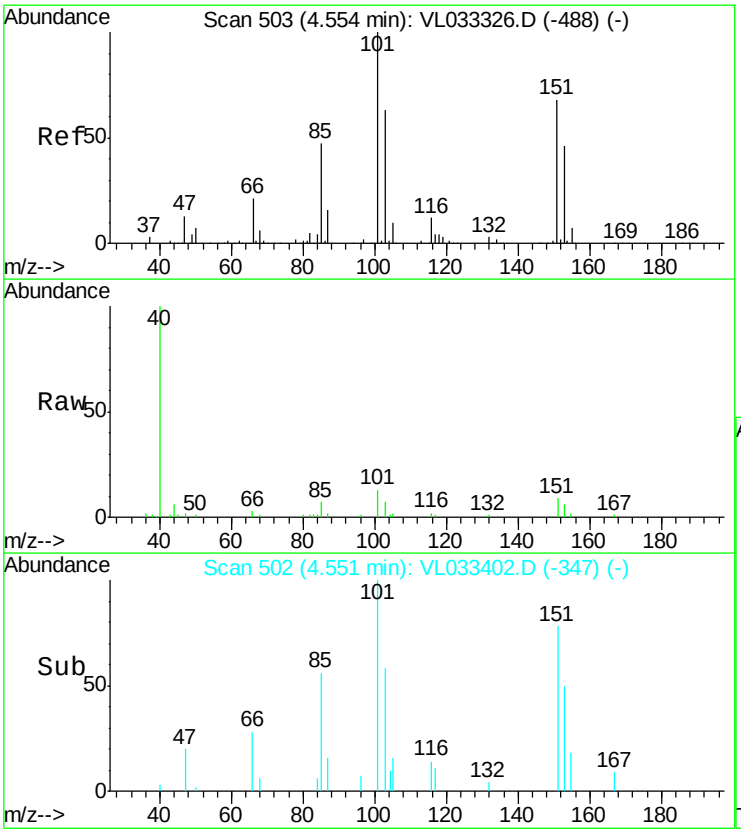
#11
Trichlorofluoromethane
Concen: 0.246 ppbv
RT: 4.00 min Scan# 331
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion:101 Resp: 36547

Ion	Ratio	Lower	Upper
101	100		
103	58.8	52.9	79.3

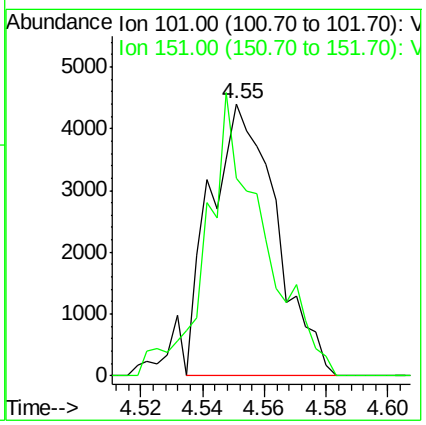


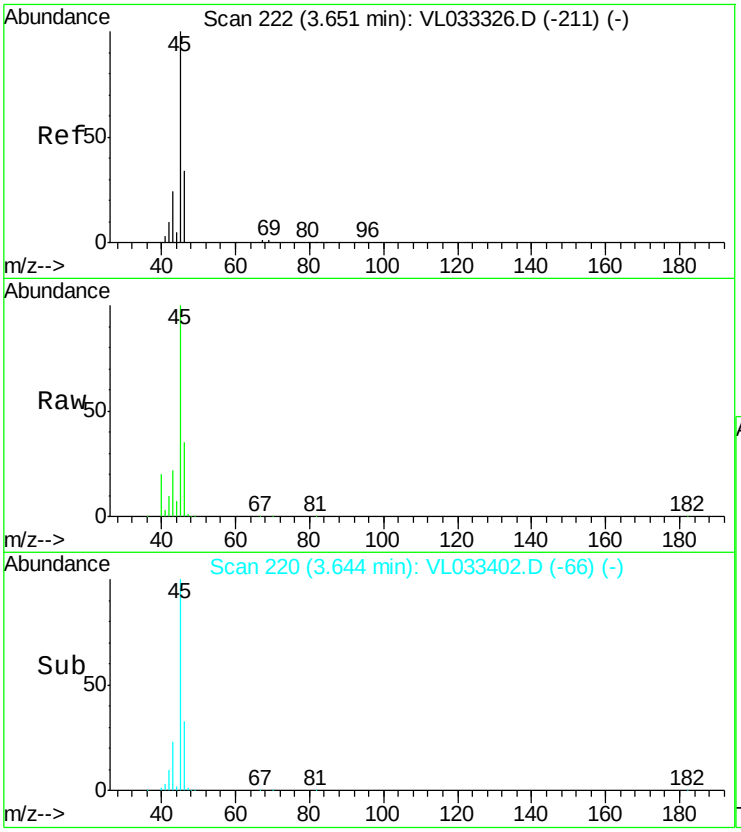


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.066 ppbv
RT: 4.55 min Scan# 502
Delta R.T. -0.00 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion:101 Resp: 6528

Ion	Ratio	Lower	Upper
101	100		
151	90.0	56.3	84.5#



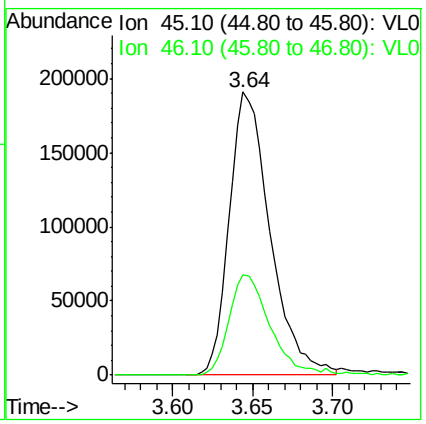


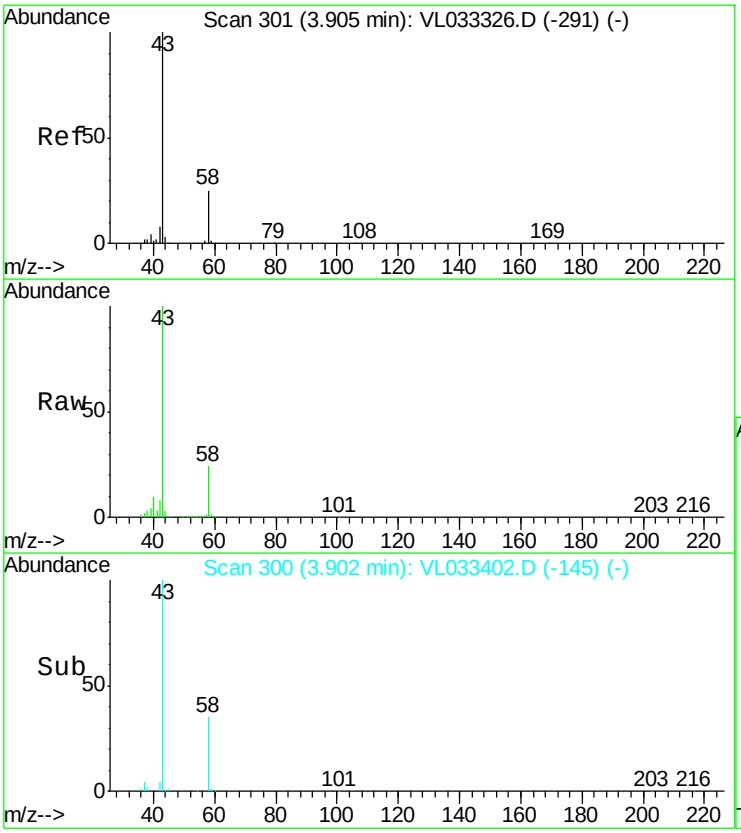
#13
Ethanol
Concen: 16.050 ppbv
RT: 3.64 min Scan# 220
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 332039

Ion	Ratio	Lower	Upper
45	100		
46	35.9	14.9	59.7

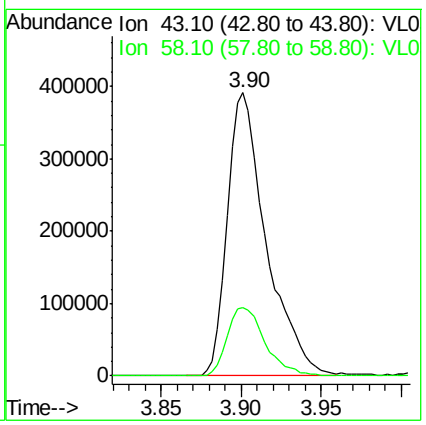


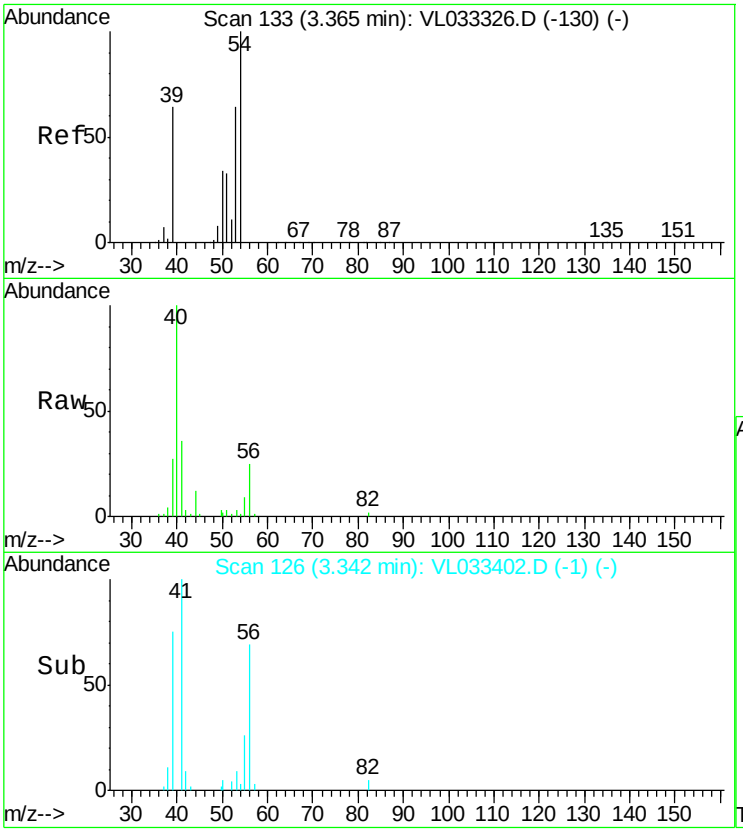


#15
Acetone
Concen: 4.919 ppbv
RT: 3.90 min Scan# 300
Delta R.T. -0.00 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 43 Resp: 647618

Ion	Ratio	Lower	Upper
43	100		
58	23.9	20.4	30.6



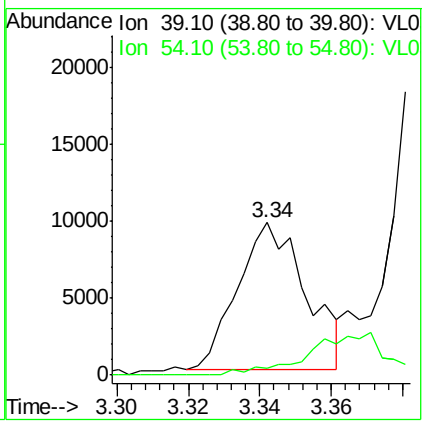


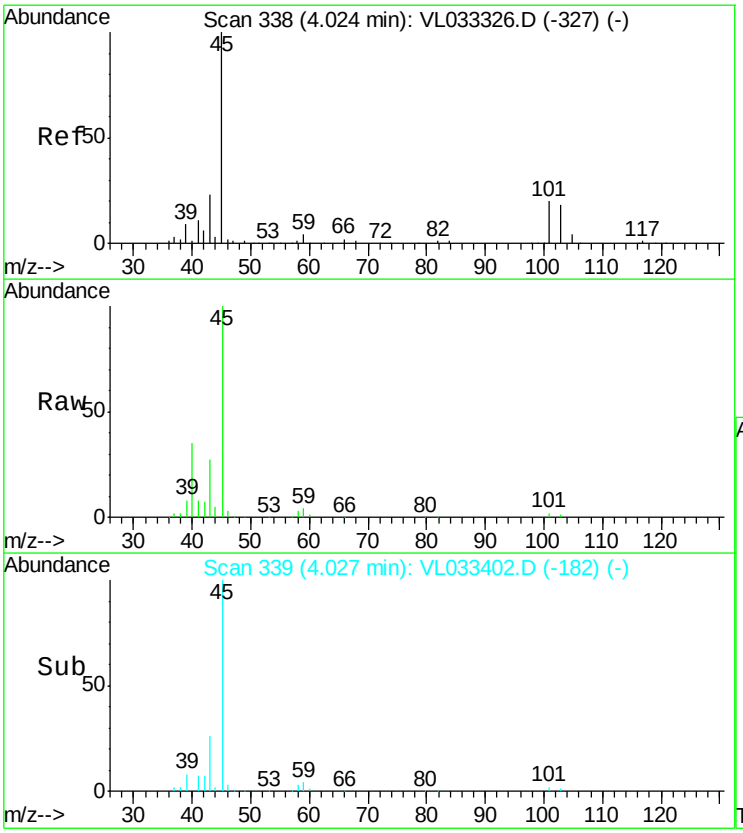
#16
1,3-Butadiene
Concen: 0.295 ppbv
RT: 3.34 min Scan# 126
Delta R.T. -0.02 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 39 Resp: 12627

Ion	Ratio	Lower	Upper
39	100		
54	0.0	76.8	115.2#

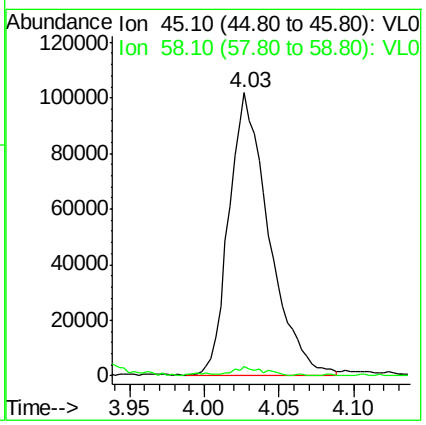


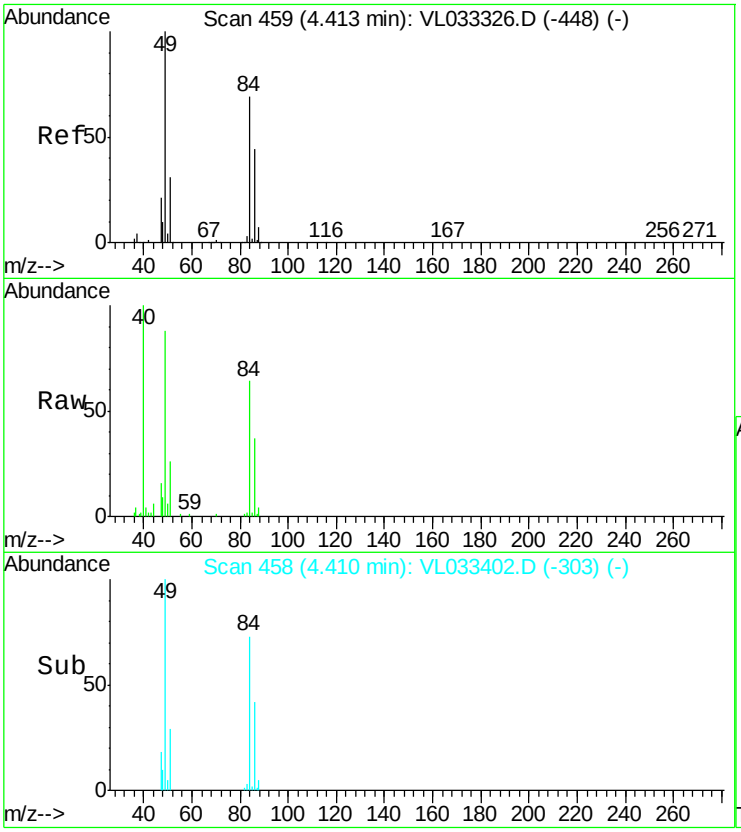


#19
Isopropyl Alcohol
Concen: 3.020 ppbv
RT: 4.03 min Scan# 339
Delta R.T. 0.00 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 45 Resp: 189127

Ion	Ratio	Lower	Upper
45	100		
58	3.2	1.5	2.3#



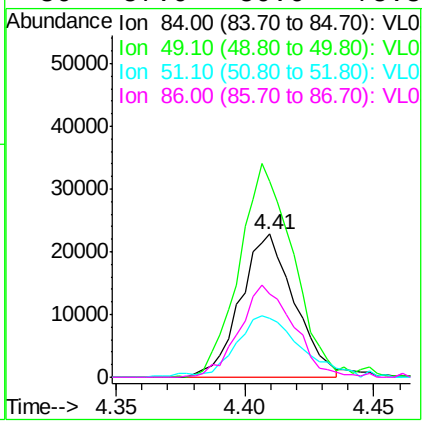


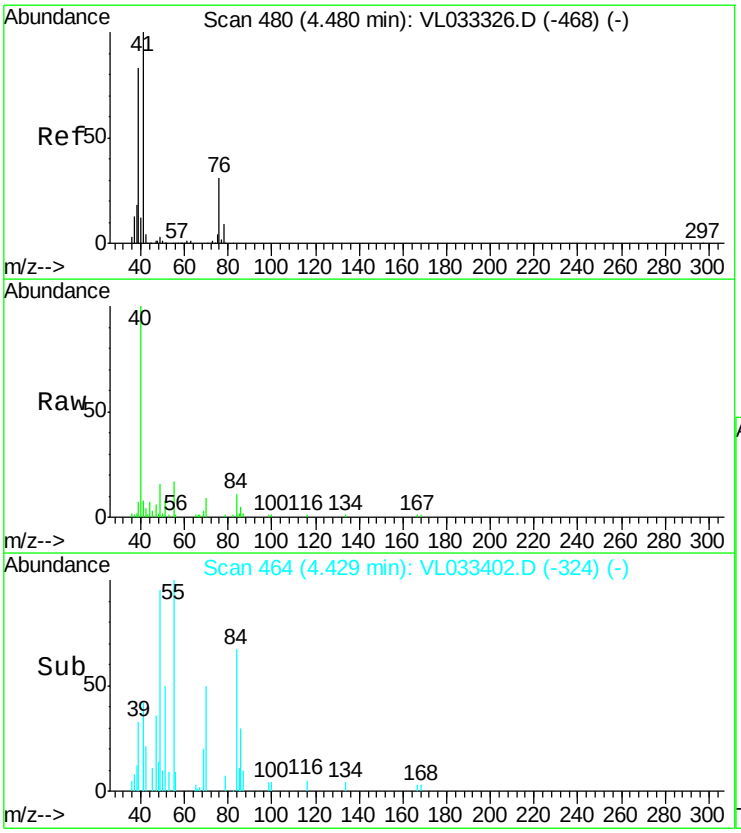
#20
Methylene Chloride
Concen: 0.772 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 84 Resp: 33157

Ion	Ratio	Lower	Upper
84	100		
49	137.1	115.4	173.0
51	38.3	35.8	53.6
86	57.0	50.6	75.8

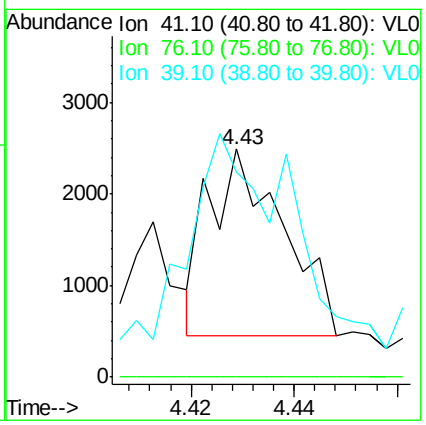


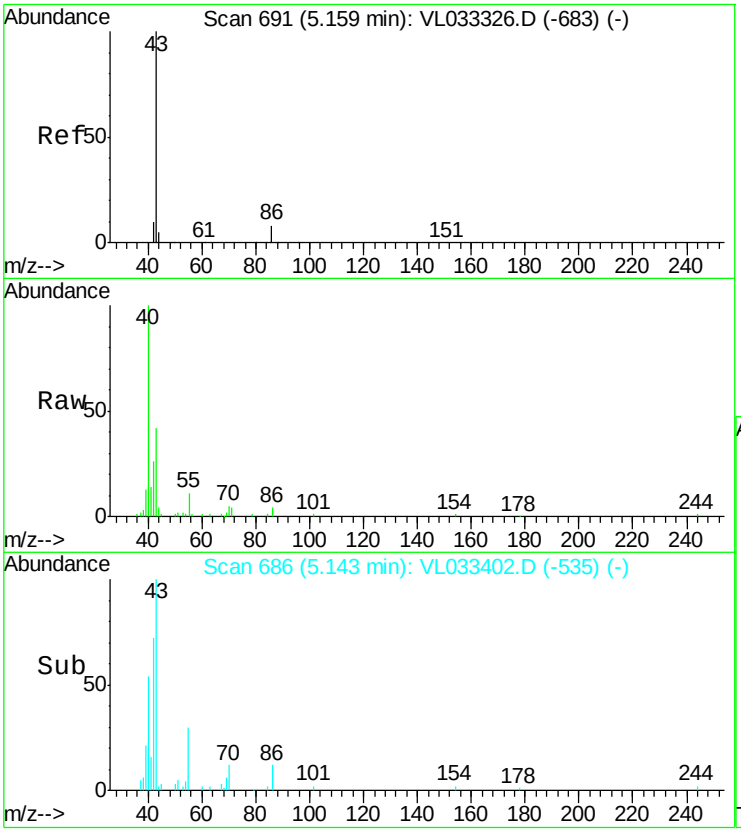


#21
Allyl Chloride
Concen: 0.032 ppbv
RT: 4.43 min Scan# 464
Delta R.T. -0.05 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 41 Resp: 2036

Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.0	37.4#
39	187.3	65.9	98.9#



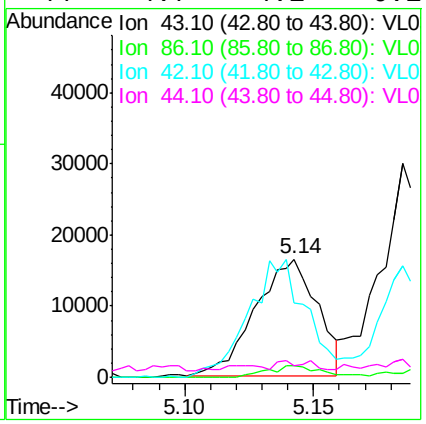


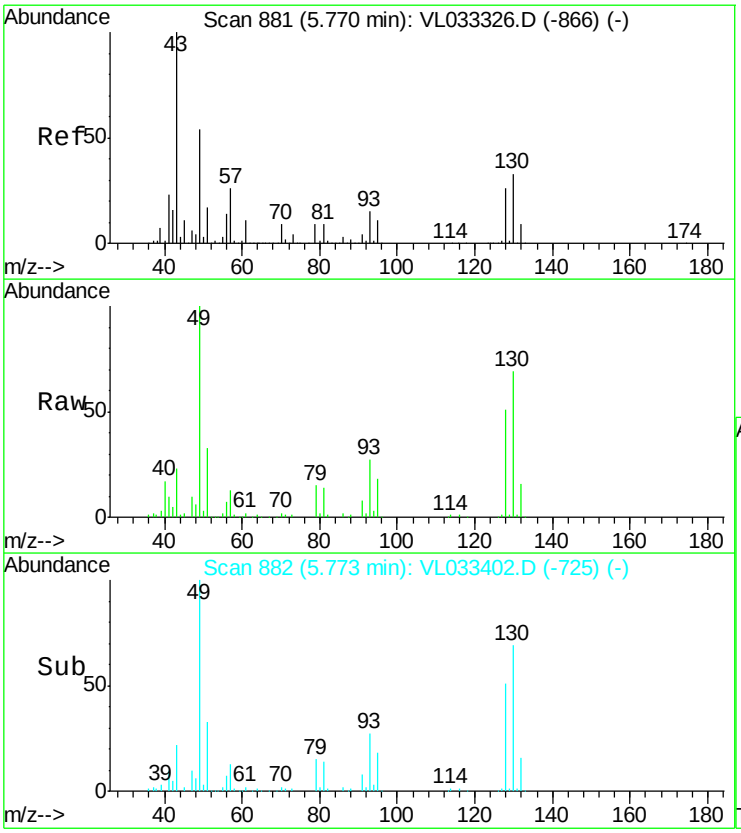
#23
Vinyl Acetate
Concen: 0.179 ppbv
RT: 5.14 min Scan# 686
Delta R.T. -0.02 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 43 Resp: 27259

Ion	Ratio	Lower	Upper
43	100		
86	10.0	6.2	9.2#
42	66.7	8.1	12.1#
44	4.7	4.1	6.1

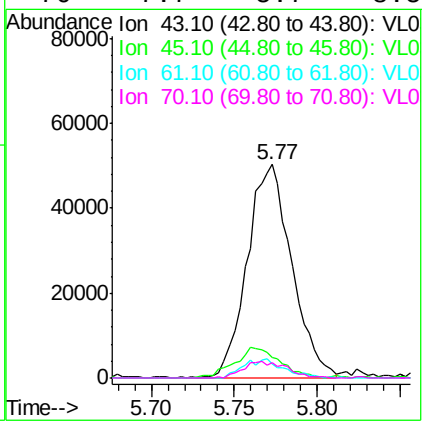


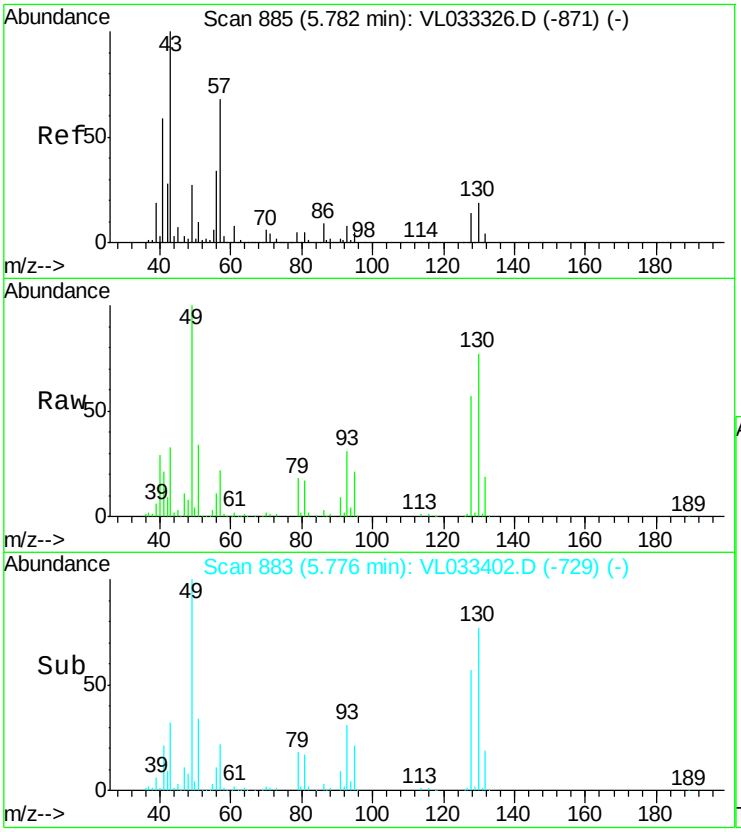


#25
Ethyl Acetate
Concen: 0.491 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 43 Resp: 94009

Ion	Ratio	Lower	Upper
43	100		
45	14.8	7.9	11.9#
61	8.3	7.4	11.2
70	7.7	5.7	8.5



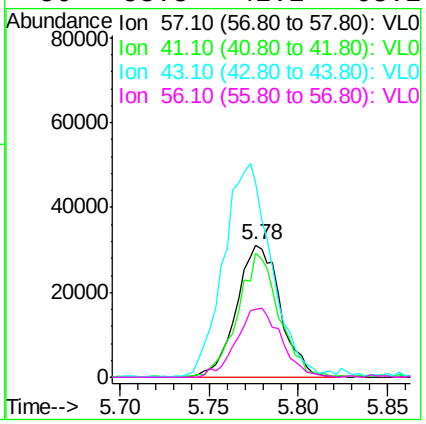


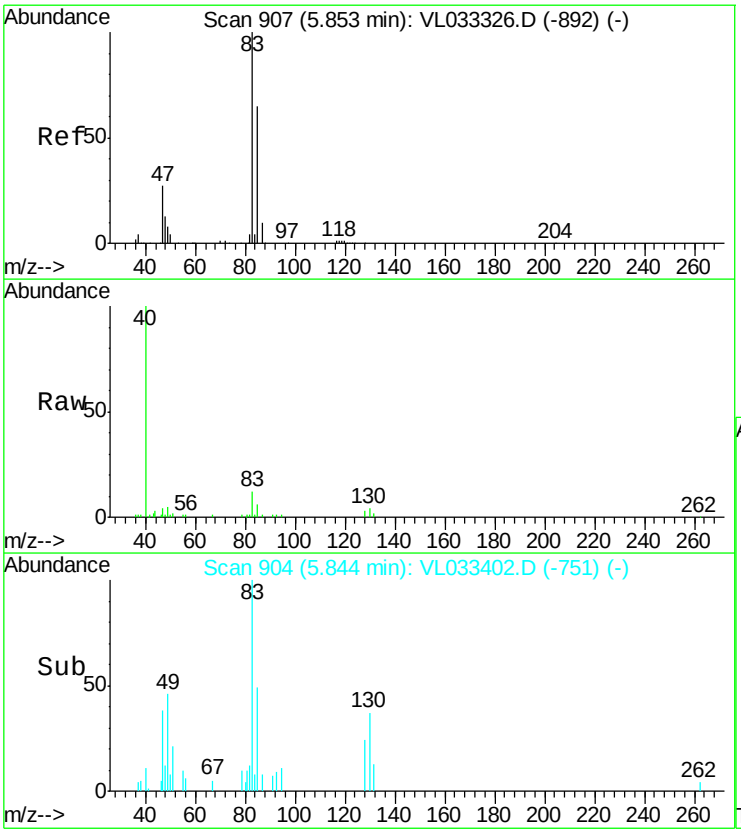
#26
Hexane
Concen: 0.625 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 57 Resp: 53469

Ion	Ratio	Lower	Upper
57	100		
41	89.9	70.5	105.7
43	179.2	181.8	272.8#
56	53.3	42.2	63.2

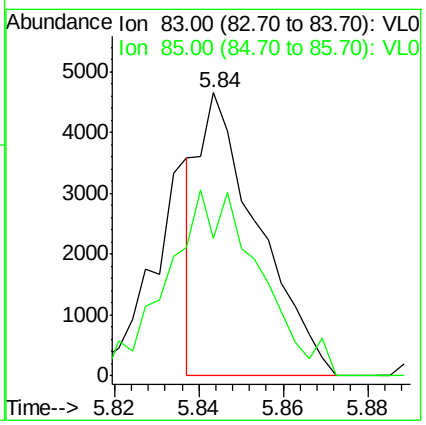


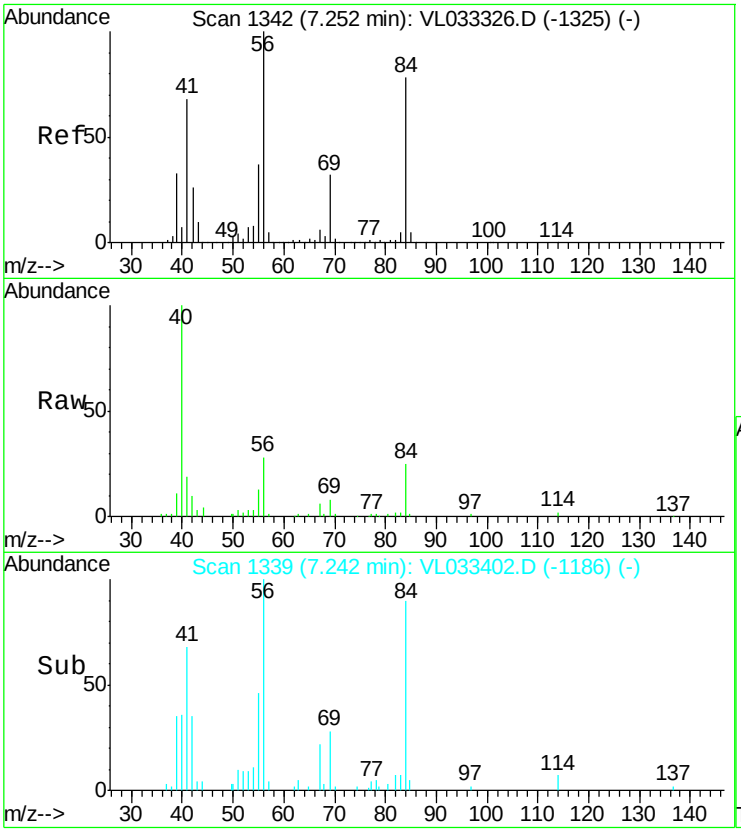


#29
Chloroform
Concen: 0.033 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 83 Resp: 4555

Ion	Ratio	Lower	Upper
83	100		
85	48.5	52.0	78.0#



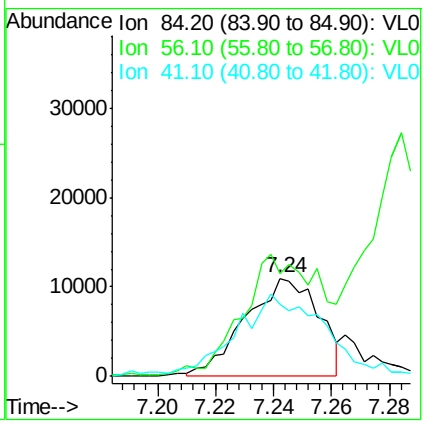


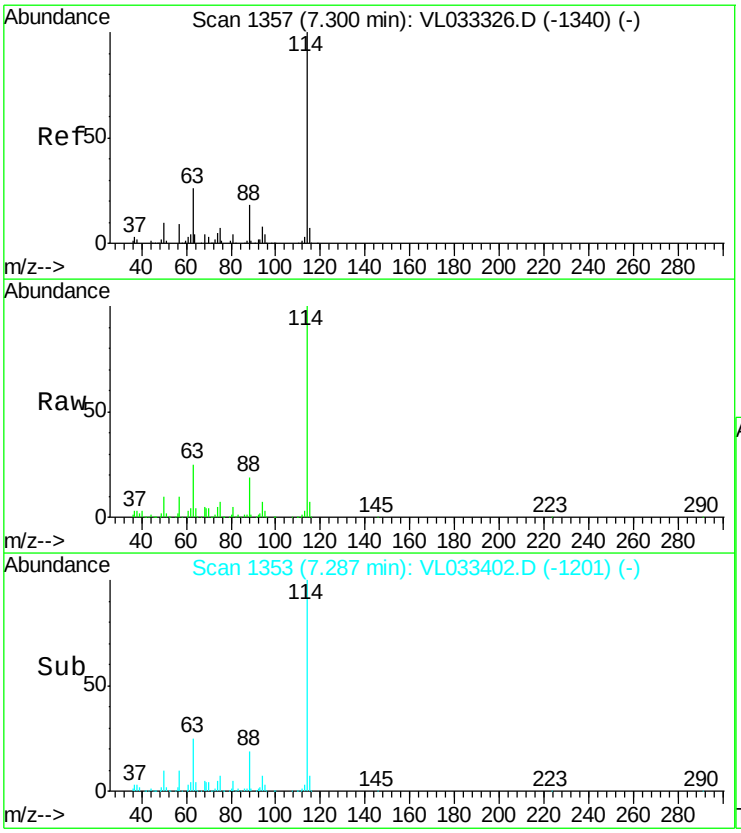
#30
Cyclohexane
Concen: 0.278 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 84 Resp: 19095

Ion	Ratio	Lower	Upper
84	100		
56	0.0	111.3	166.9#
41	106.2	69.6	104.4#

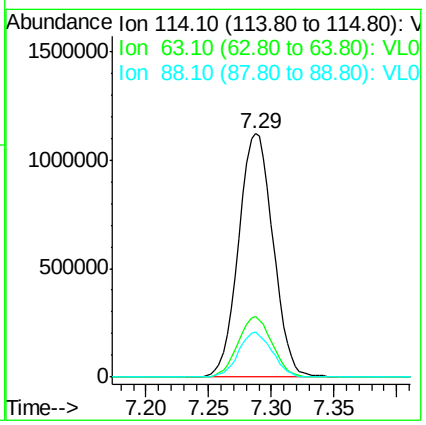


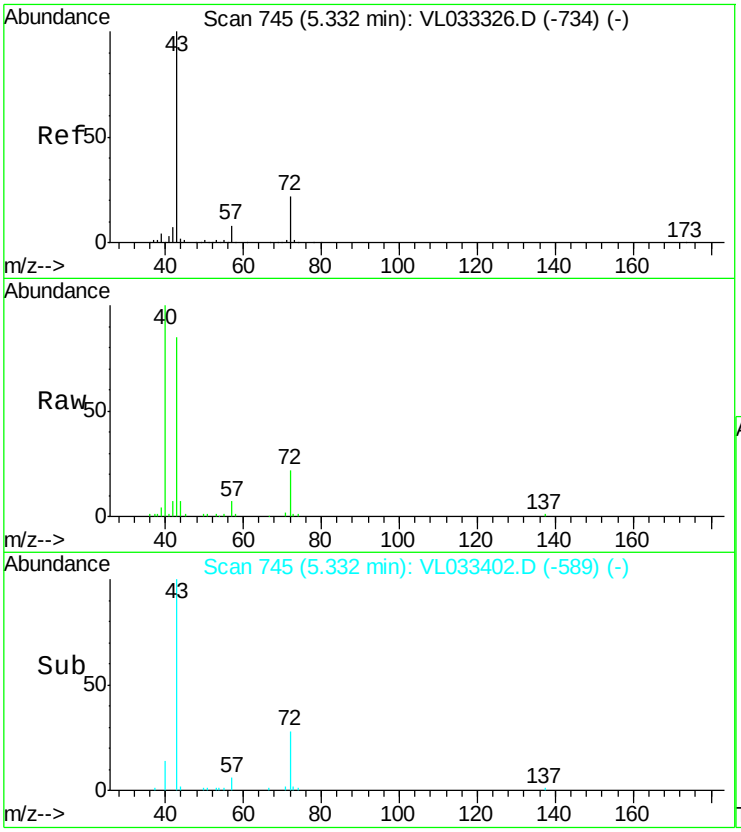


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion:114 Resp: 2140145

Ion	Ratio	Lower	Upper
114	100		
63	24.6	21.4	32.2
88	18.0	14.5	21.7



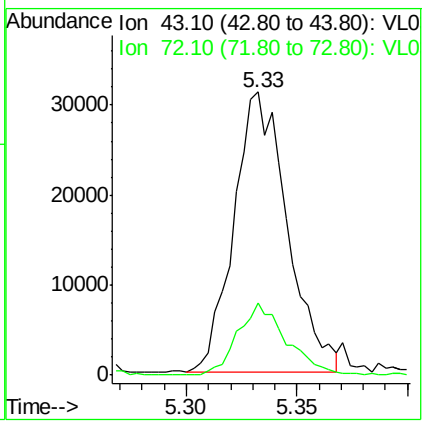


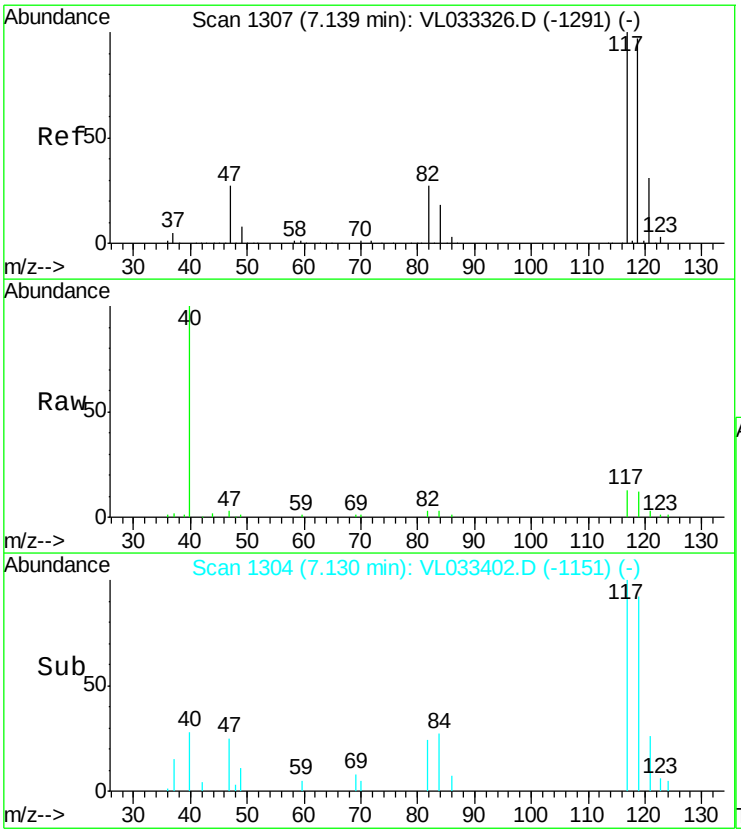
#34
2-Butanone
Concen: 0.373 ppbv
RT: 5.33 min Scan# 745
Delta R.T. 0.00 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 52487

Ion	Ratio	Lower	Upper
43	100		
72	23.8	17.7	26.5

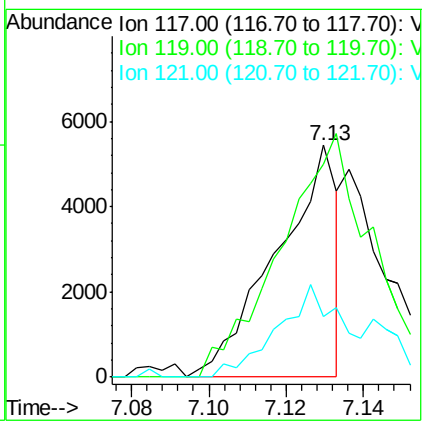


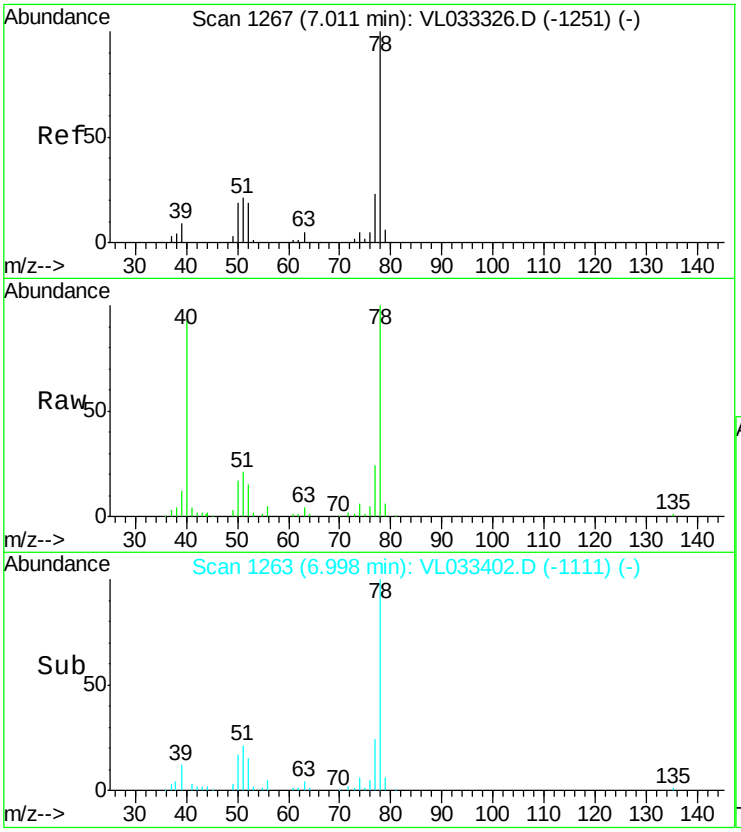


#35
Carbon Tetrachloride
Concen: 0.039 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion:117 Resp: 5885

Ion	Ratio	Lower	Upper
117	100		
119	91.8	77.4	116.0
121	26.1	24.9	37.3



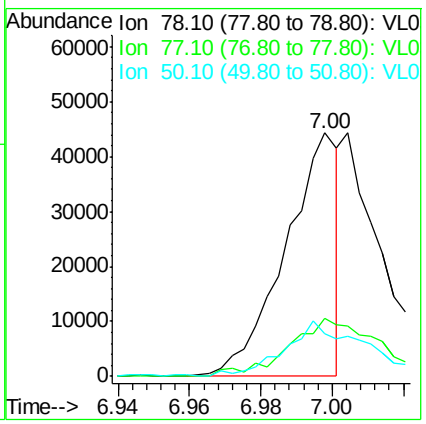


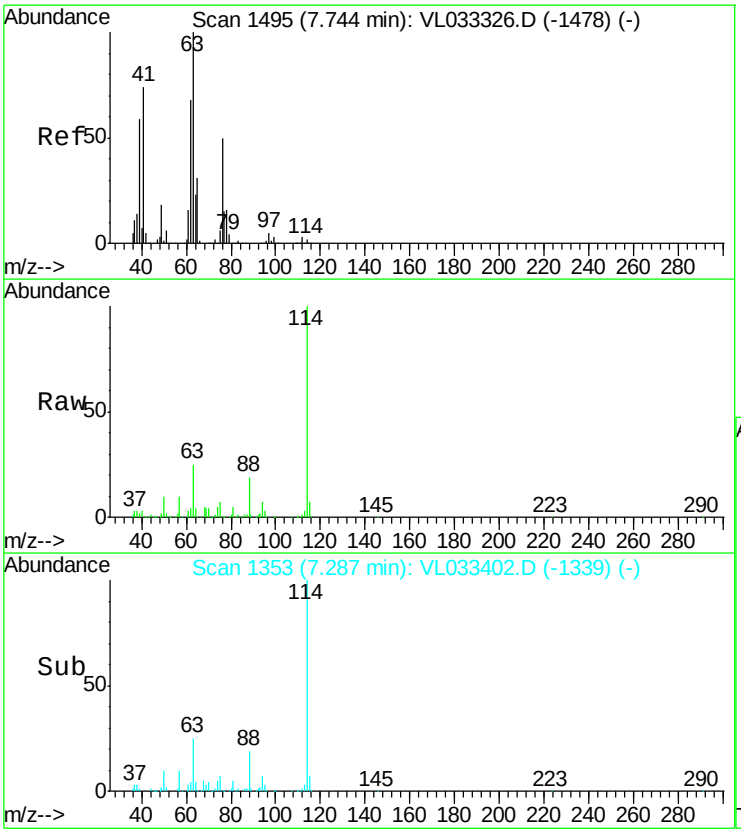
#36
Benzene
Concen: 0.238 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 78 Resp: 45570

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.1	27.1
50	16.7	15.2	22.8

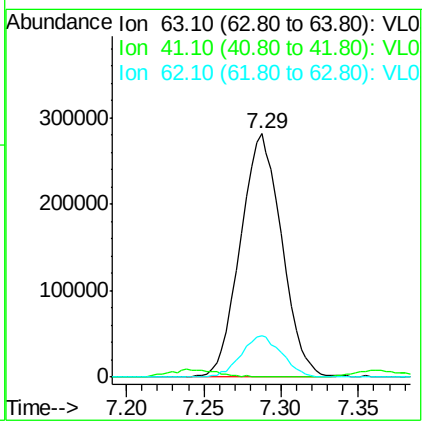


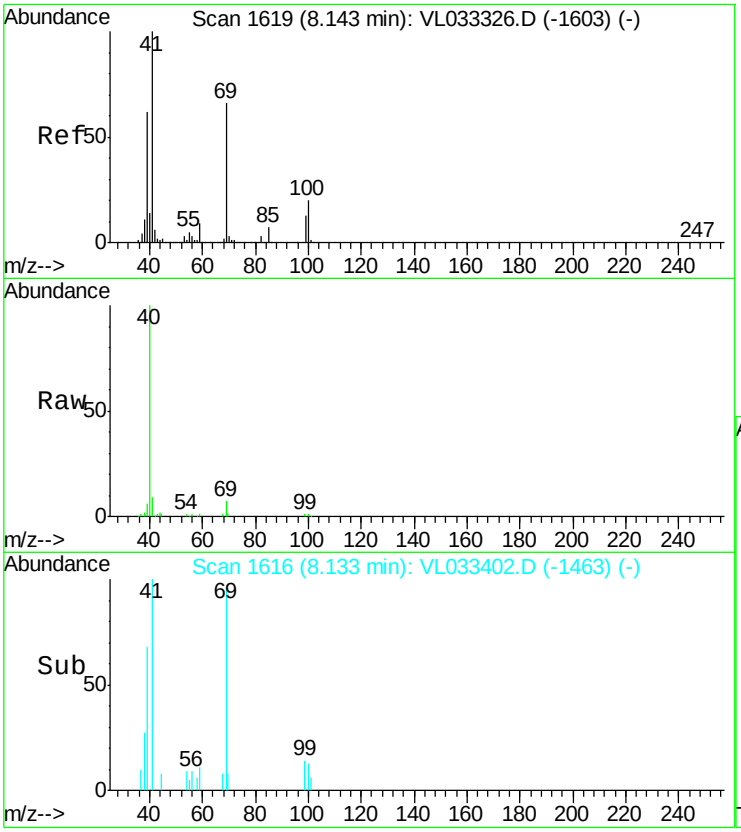


#39
1,2-Dichloropropane
Concen: 7.293 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.46 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 63 Resp: 523116

Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.5	89.3#
62	17.0	54.7	82.1#



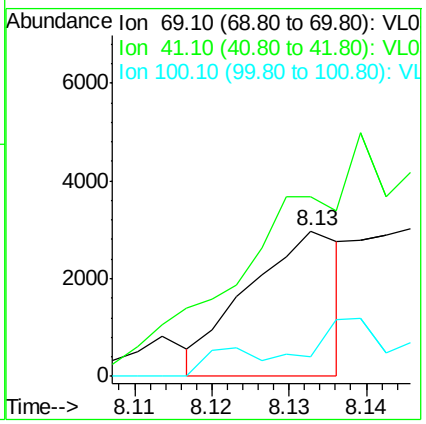


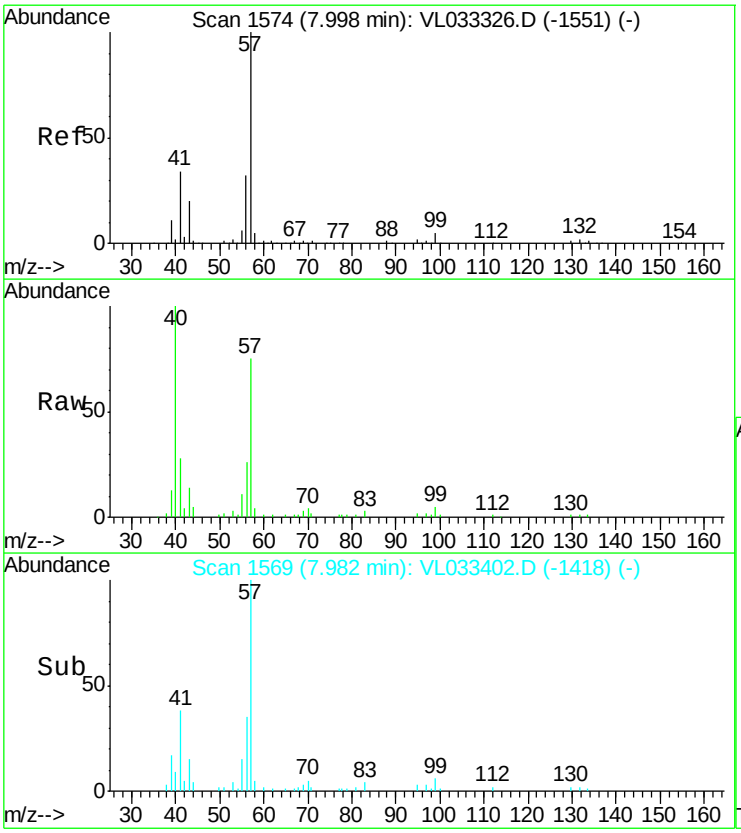
#43
Methyl Methacrylate
Concen: 0.033 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 69 Resp: 2476

Ion	Ratio	Lower	Upper
69	100		
41	0.0	119.5	179.3#
100	0.0	24.4	36.6#

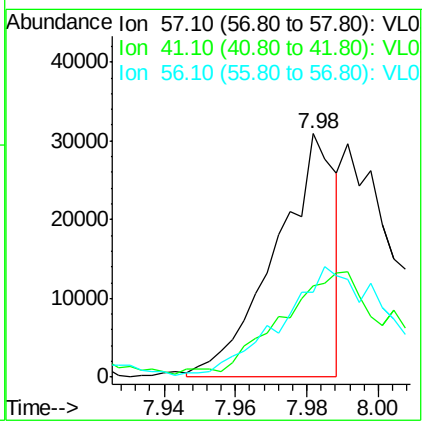


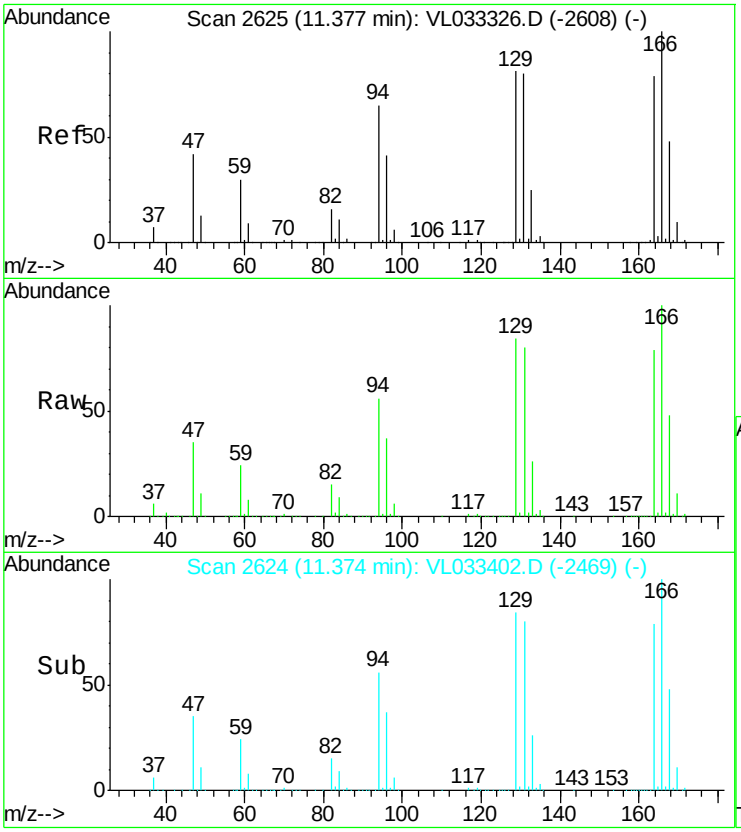


#44
2,2,4-Trimethylpentane
Concen: 0.113 ppbv
RT: 7.98 min Scan# 1569
Delta R.T. -0.02 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 57 Resp: 35924

Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.0	39.0#
56	95.8	24.6	36.8#



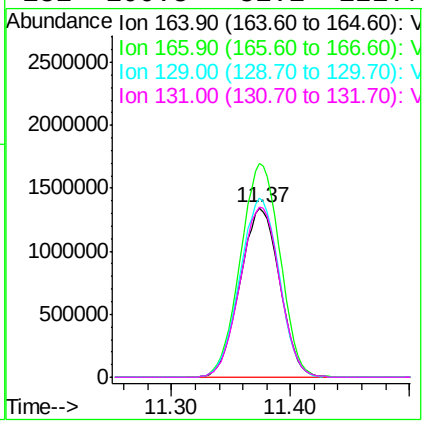


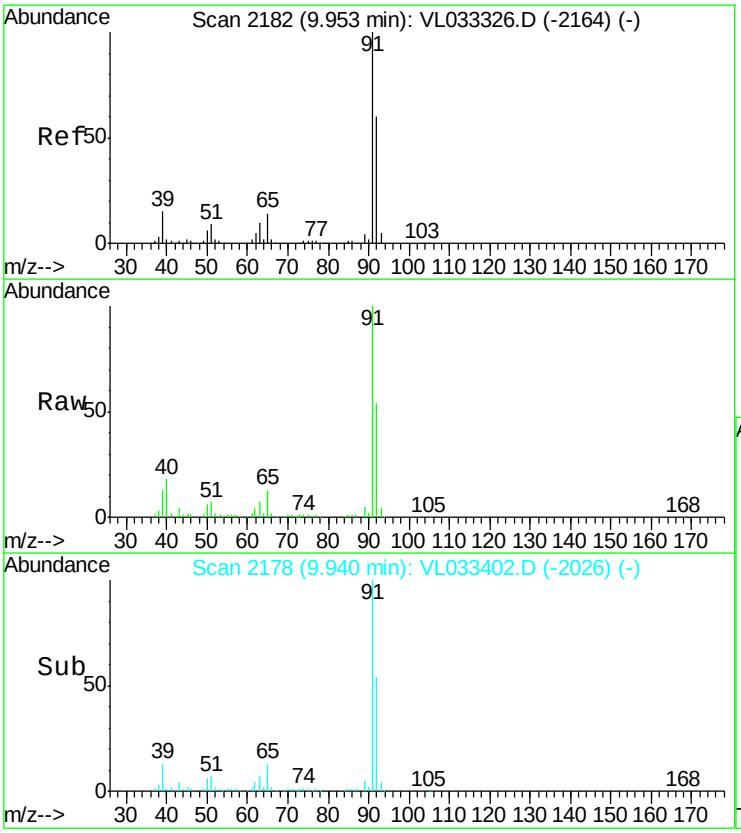
#52
Tetrachloroethene
Concen: 38.741 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion:164 Resp: 3091275

Ion	Ratio	Lower	Upper
164	100		
166	126.2	101.5	152.3
129	106.1	82.2	123.2
131	100.8	81.1	121.7

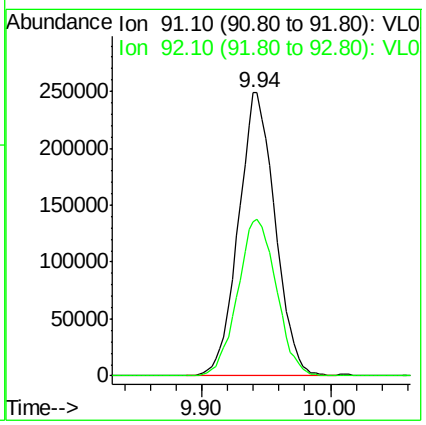


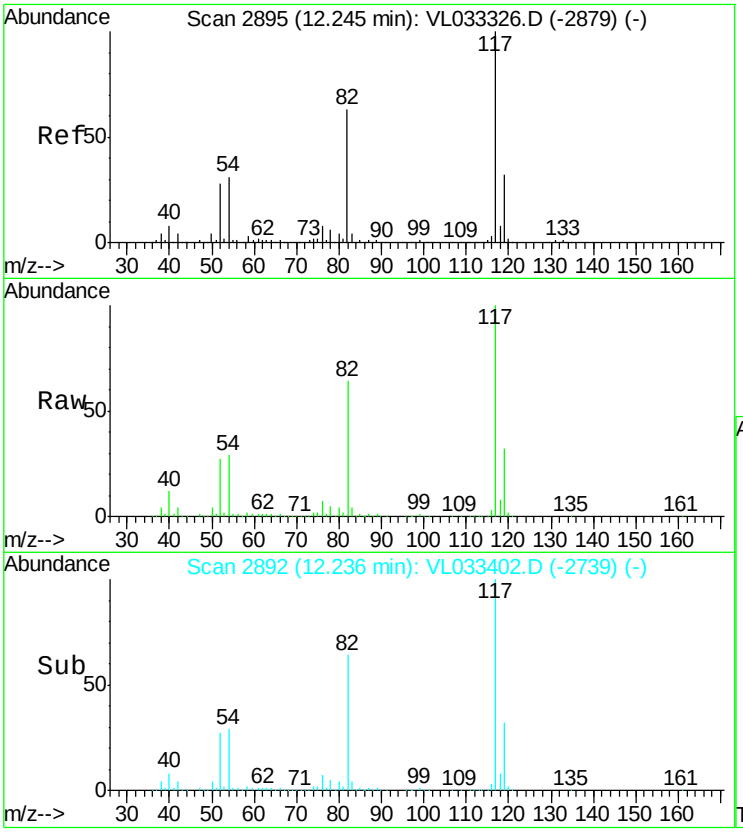


#53
Toluene
Concen: 2.265 ppbv
RT: 9.94 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 91 Resp: 493006

Ion	Ratio	Lower	Upper
91	100		
92	58.5	47.4	71.0



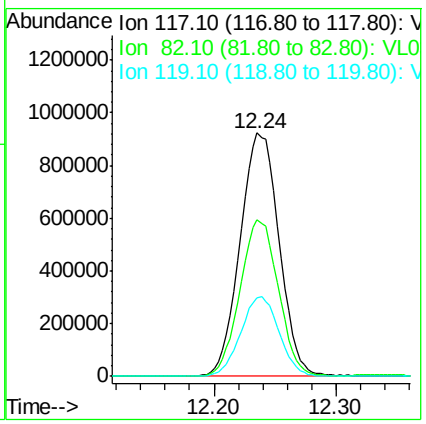


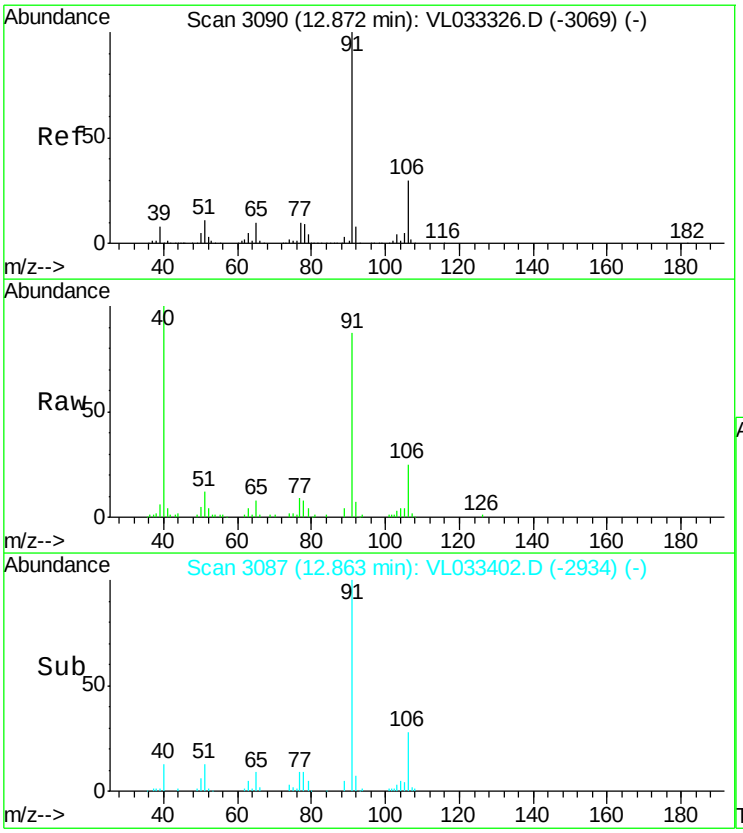
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion:117 Resp: 2039832

Ion	Ratio	Lower	Upper
117	100		
82	63.4	53.4	80.2
119	32.3	27.3	40.9

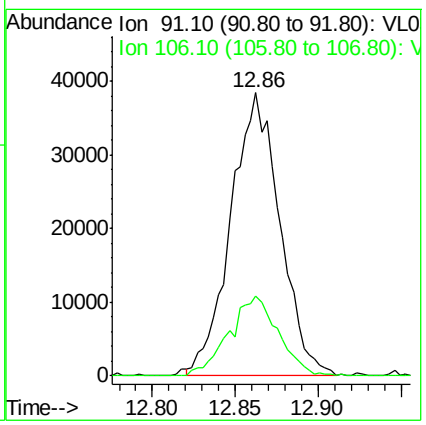


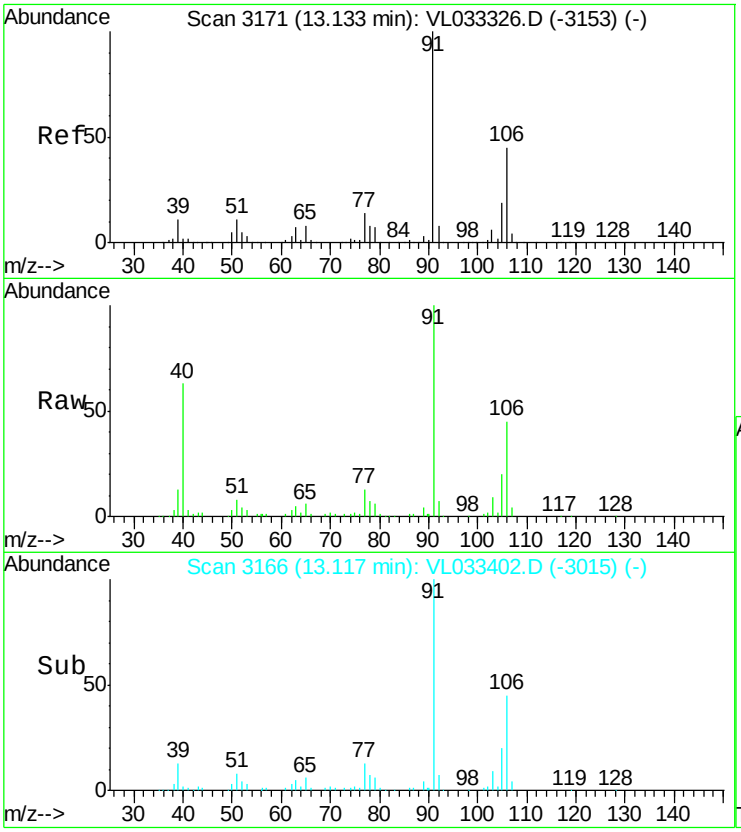


#58
Ethyl Benzene
Concen: 0.275 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 91 Resp: 79237

Ion	Ratio	Lower	Upper
91	100		
106	28.4	24.2	36.2



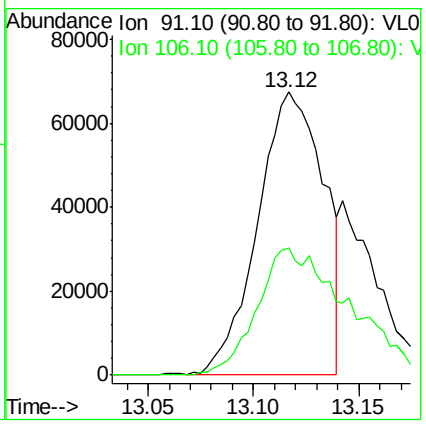


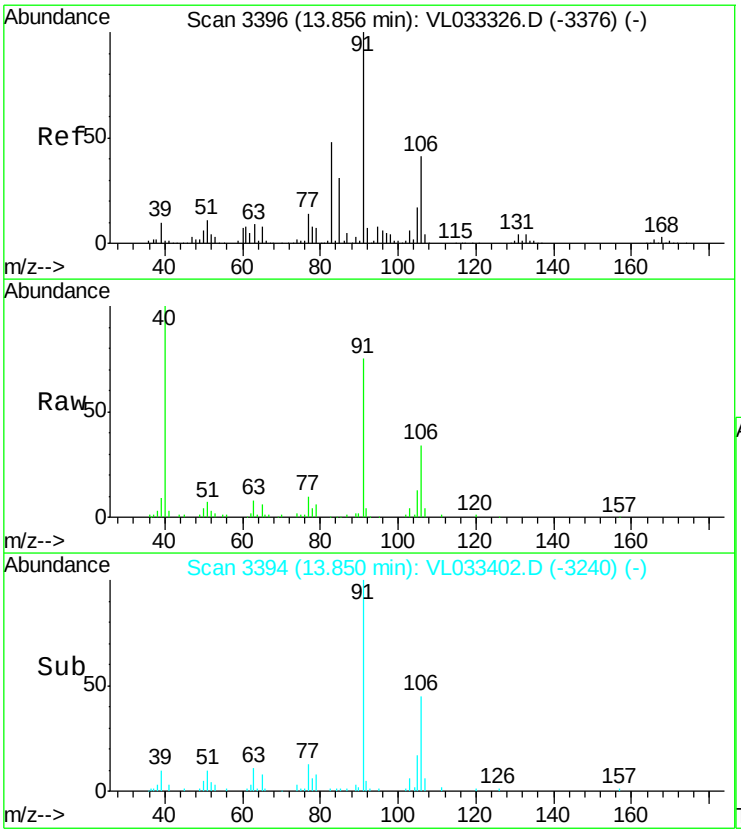
#59
m/p-Xylene
Concen: 0.591 ppbv
RT: 13.12 min Scan# 3166
Delta R.T. -0.02 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 91 Resp: 146629

Ion	Ratio	Lower	Upper
91	100		
106	62.2	0.0	0.0#

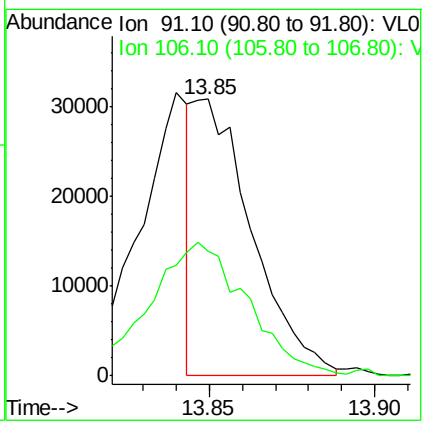


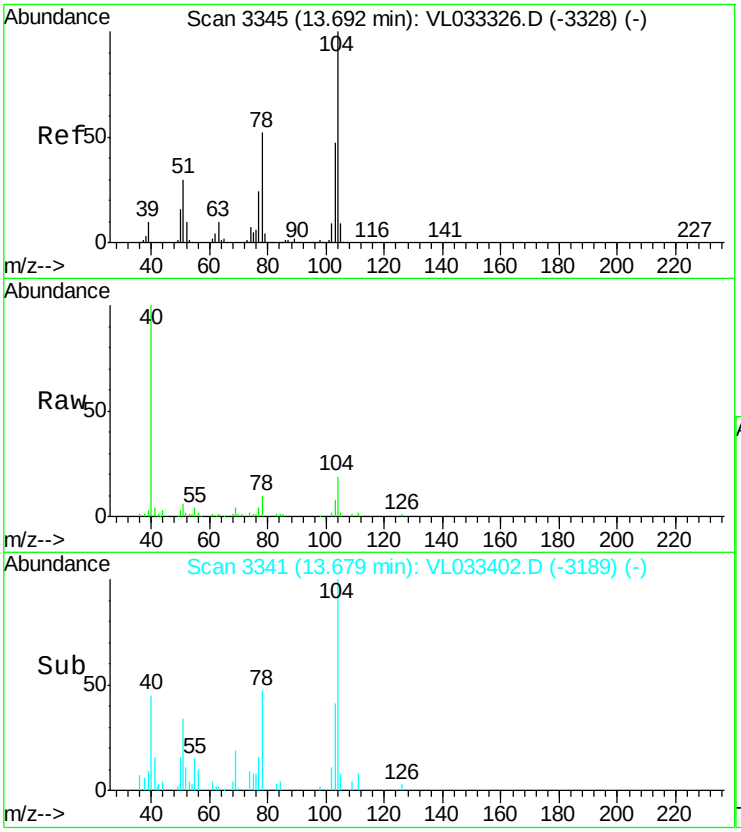


#60
o-Xylene
Concen: 0.155 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion: 91 Resp: 37564

Ion	Ratio	Lower	Upper
91	100		
106	82.6	21.3	63.9#



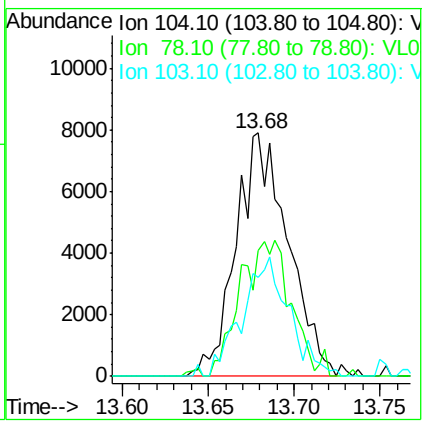


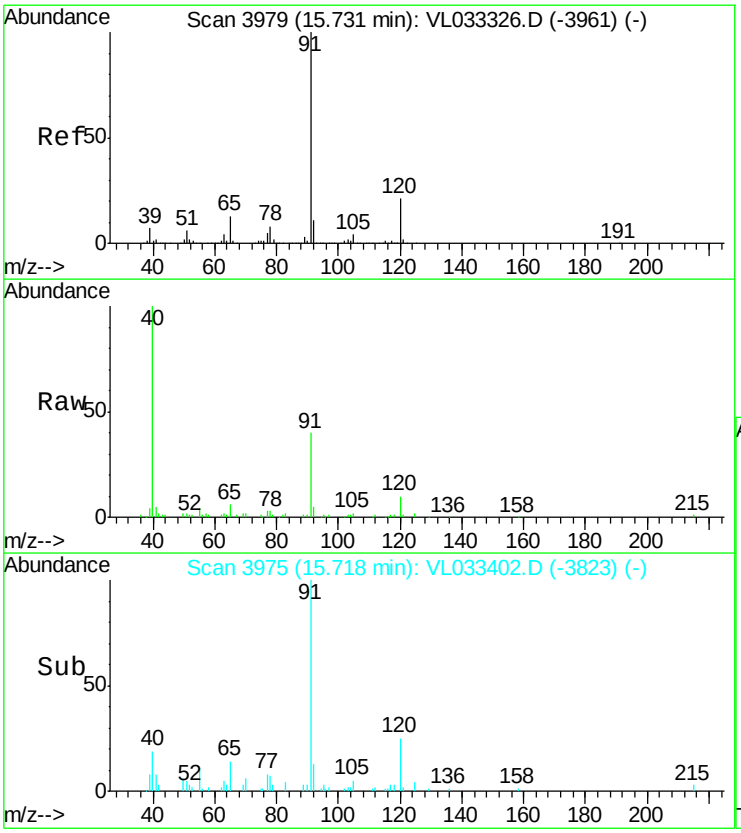
#61
Styrene
Concen: 0.098 ppbv
RT: 13.68 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion:104 Resp: 16559

Ion	Ratio	Lower	Upper
104	100		
78	55.7	42.7	64.1
103	44.8	38.0	57.0

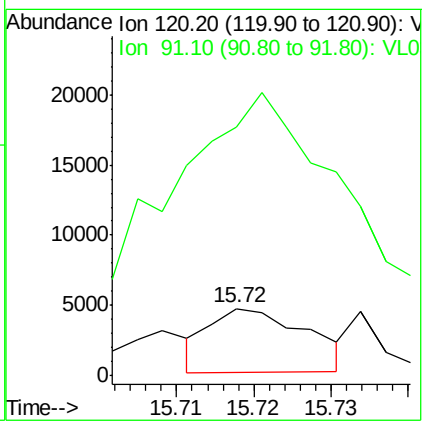


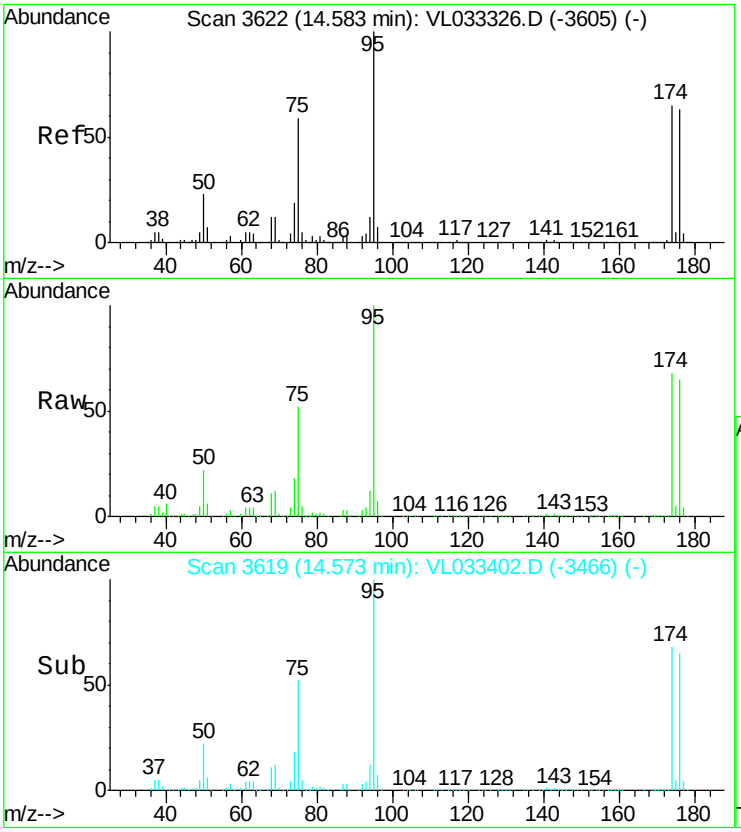


#64
n-propylbenzene
Concen: 0.047 ppbv
RT: 15.72 min Scan# 3975
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion:120 Resp: 3979

Ion	Ratio	Lower	Upper
120	100		
91	1070.8	389.8	584.6#



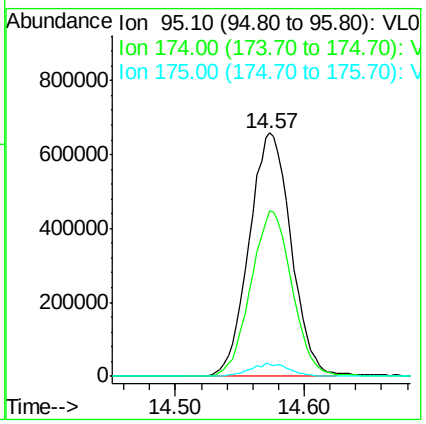


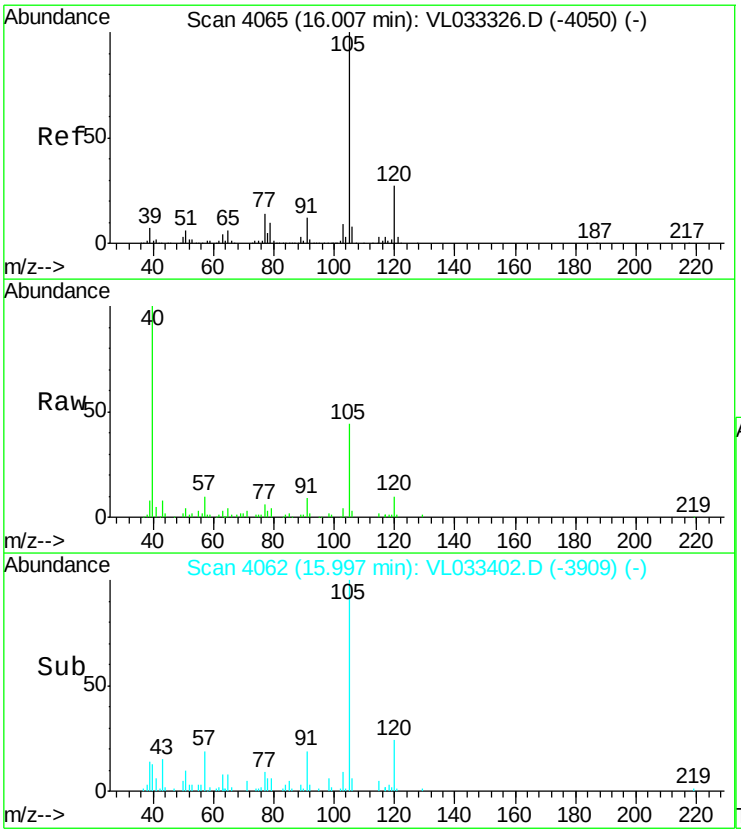
#68
1-Bromo-4-Fluorobenzene
Concen: 9.855 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument : MSVOA_L
ClientSampleId : IA1

Tgt Ion: 95 Resp: 1489622

Ion	Ratio	Lower	Upper
95	100		
174	67.2	51.5	77.3
175	5.0	3.8	5.6

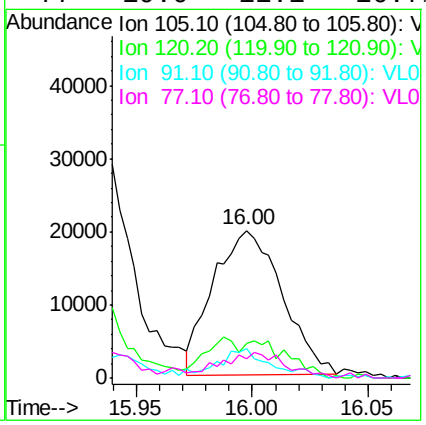


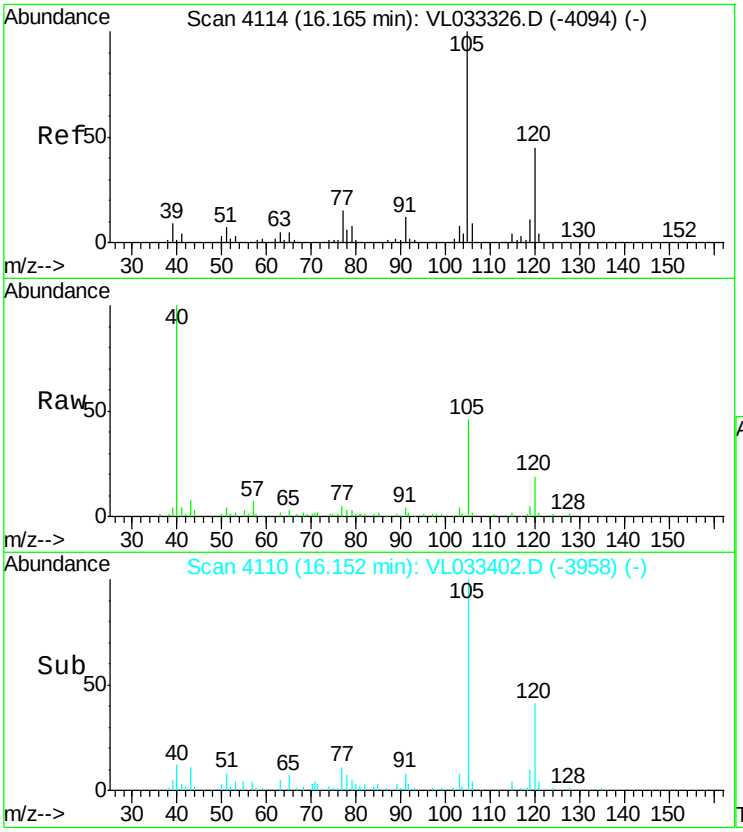


#72
4-Ethyltoluene
Concen: 0.148 ppbv
RT: 16.00 min Scan# 4062
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion:105 Resp: 40741

Ion	Ratio	Lower	Upper
105	100		
120	30.9	22.9	34.3
91	16.4	10.2	15.2#
77	19.0	11.1	16.7#



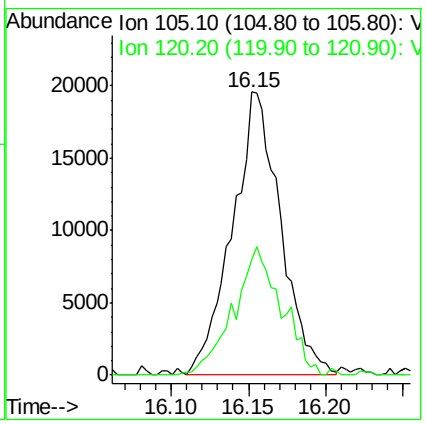


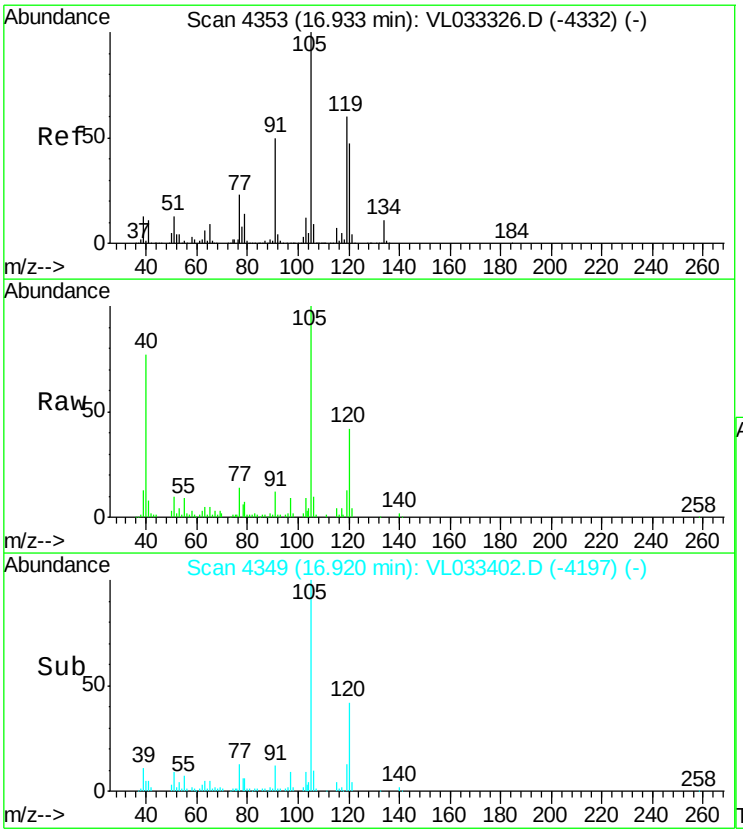
#73
1,3,5-Trimethylbenzene
Concen: 0.159 ppbv
RT: 16.15 min Scan# 4110
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:105 Resp: 42581

Ion	Ratio	Lower	Upper
105	100		
120	40.0	36.2	54.4

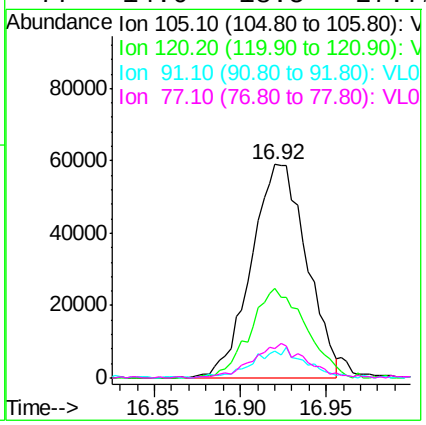


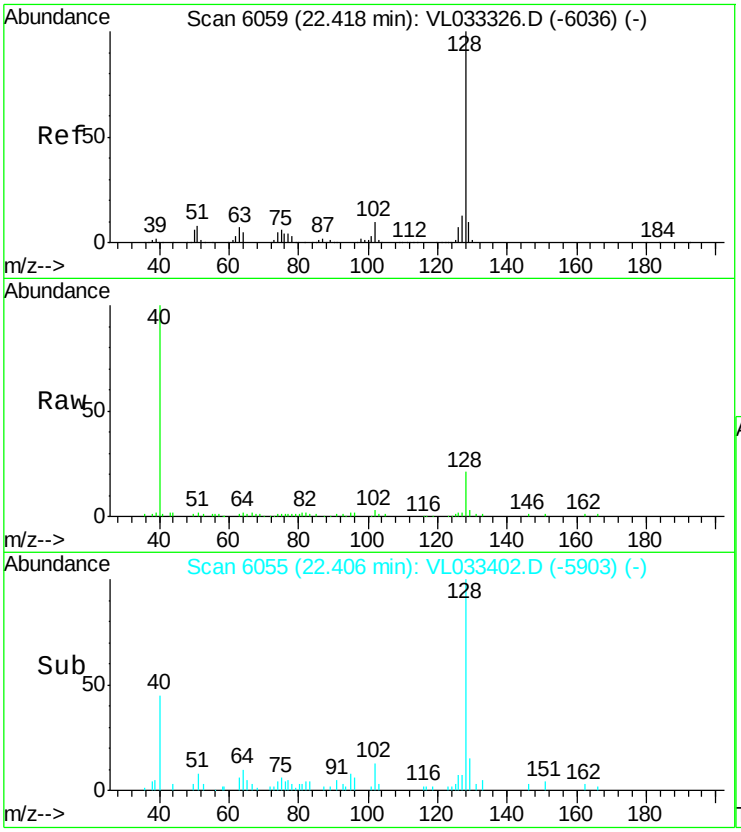


#74
1,2,4-Trimethylbenzene
Concen: 0.466 ppbv
RT: 16.92 min Scan# 4349
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion:105 Resp: 132151

Ion	Ratio	Lower	Upper
105	100		
120	42.1	37.4	56.2
91	11.9	41.0	61.4#
77	14.0	18.5	27.7#



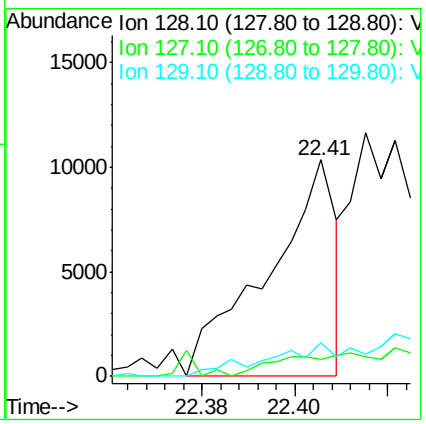


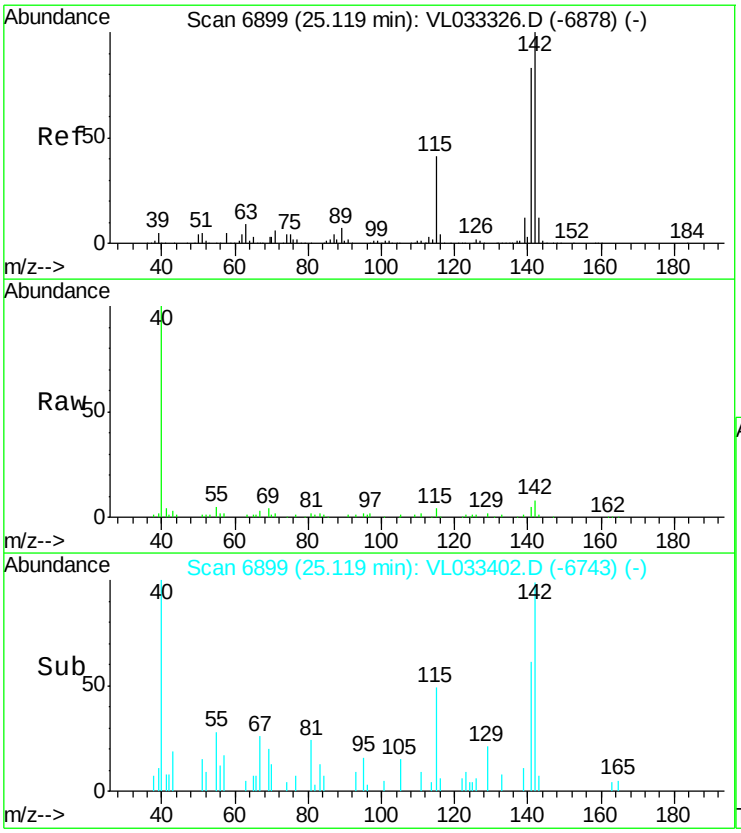
#79
Naphthalene
Concen: 0.038 ppbv
RT: 22.41 min Scan# 6055
Delta R.T. -0.01 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:128 Resp: 10504

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.1	15.1#
129	15.4	8.2	12.2#





#80
Naphthalene,2-methyl-
Concen: 0.067 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. -0.00 min
Lab File: VL033402.D
Acq: 20 Mar 2019 23:04

Tgt Ion:142 Resp: 8676

Ion	Ratio	Lower	Upper
142	100		
141	75.3	67.1	100.7
115	30.2	33.8	50.6#