Quantitation Report (Not Reviewed)

Instrument : MSVOA_L
ClientSampleId : VSTDICC015

```
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL051719\
Data File : VL033706.D
Acq On    : 17 May 2019   5:53
Operator  : SY/AP
Sample    : VSTDICC015
Misc      : 400ml/MSVOA_L
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: May 17 07:13:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title  : AIR ANALYSIS BY METHOD TO-15   Instrument: MSVOA_LFri May 17 07:07:57 2019
QLast Update : Fri May 17 07:07:57 2019
Response via : Initial Calibration
```

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	5.76	49	906328	10.00 ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2627268	10.00 ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2918888	10.00 ppbv	0.00

System Monitoring Compounds

	R.T.	QIon	Response	Conc Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.58	95	2268330	9.48 ppbv	0.00

Spiked Amount 10.000 Range 65 - 135 Recovery = 94.80%

Target Compounds	R.T.	QIon	Response	Conc Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	2803027	13.530 ppbv	99
3) Chlorodifluoromethane	3.01	51	1522364	11.707 ppbv	98
4) Chloromethane	3.17	50	857141	12.670 ppbv	98
5) Vinyl Chloride	3.29	62	873188	13.254 ppbv	98
6) Bromomethane	3.51	94	550859	13.135 ppbv	99
7) Chloroethane	3.60	64	321605	13.417 ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	2228553	12.841 ppbv	100
9) Propene	3.04	41	674798	13.556 ppbv	98
10) Heptane	8.25	43	2192447	17.773 ppbv	100
11) Trichlorofluoromethane	4.00	101	2632367	13.199 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1791396	13.318 ppbv	100
13) Ethanol	3.65	45	157880	10.414 ppbv	100
14) Bromoethene	3.79	108	705803	13.595 ppbv	100
15) Acetone	3.90	43	1673105	12.330 ppbv	99
16) 1,3-Butadiene	3.36	39	796053	13.980 ppbv	99
17) tert-Butyl alcohol	4.36	59	1367878	13.102 ppbv	100
18) 1,1-Dichloroethene	4.35	96	782236	13.504 ppbv	94
19) Isopropyl Alcohol	4.03	45	1086363	12.823 ppbv	100
20) Methylene Chloride	4.41	84	657391	12.814 ppbv	98
21) Allyl Chloride	4.48	41	1177889	14.291 ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	811561	14.126 ppbv	96
23) Vinyl Acetate	5.16	43	2530413	14.466 ppbv	99
24) 1,1-Dichloroethane	5.09	63	1746940	13.221 ppbv	99
25) Ethyl Acetate	5.77	43	3101243	14.033 ppbv	99
26) Hexane	5.78	57	1369431	14.410 ppbv	100
27) Carbon Disulfide	4.62	76	2010057	15.407 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	2241512	14.121 ppbv	100
29) Chloroform	5.85	83	2794942	16.395 ppbv	98
30) Cyclohexane	7.25	84	1444335	18.204 ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1433376	15.345 ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2900501	16.533 ppbv	100
34) 2-Butanone	5.33	43	2003366	11.884 ppbv	100
35) Carbon Tetrachloride	7.14	117	3141673	14.532 ppbv	99
36) Benzene	7.01	78	3485976	14.685 ppbv	99
37) 1,2-Dichloroethane	6.42	62	2180055	13.174 ppbv	100
38) Trichloroethene	7.96	130	1402689	16.195 ppbv	97
39) 1,2-Dichloropropane	7.74	63	1300829	14.702 ppbv	96
40) 1,4-Dioxane	7.96	88	525288	14.672 ppbv #	99
41) Tetrahydrofuran	6.15	42	1397221	15.836 ppbv	99
42) Bromodichloromethane	7.92	83	3135468	14.743 ppbv	96
43) Methyl Methacrylate	8.14	69	1416704	15.903 ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL051719\
Data File : VL033706.D
Acq On   : 17 May 2019   5:53
Operator : SY/AP
Sample   : VSTDICC015
Misc   : 400ml/MSVOA_L
ALS Vial : 1   Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: May 17 07:13:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15   Instrument: MSVOA_LFri May 17 07:07:57 2019
QLast Update : Fri May 17 07:07:57 2019
Response via : Initial Calibration

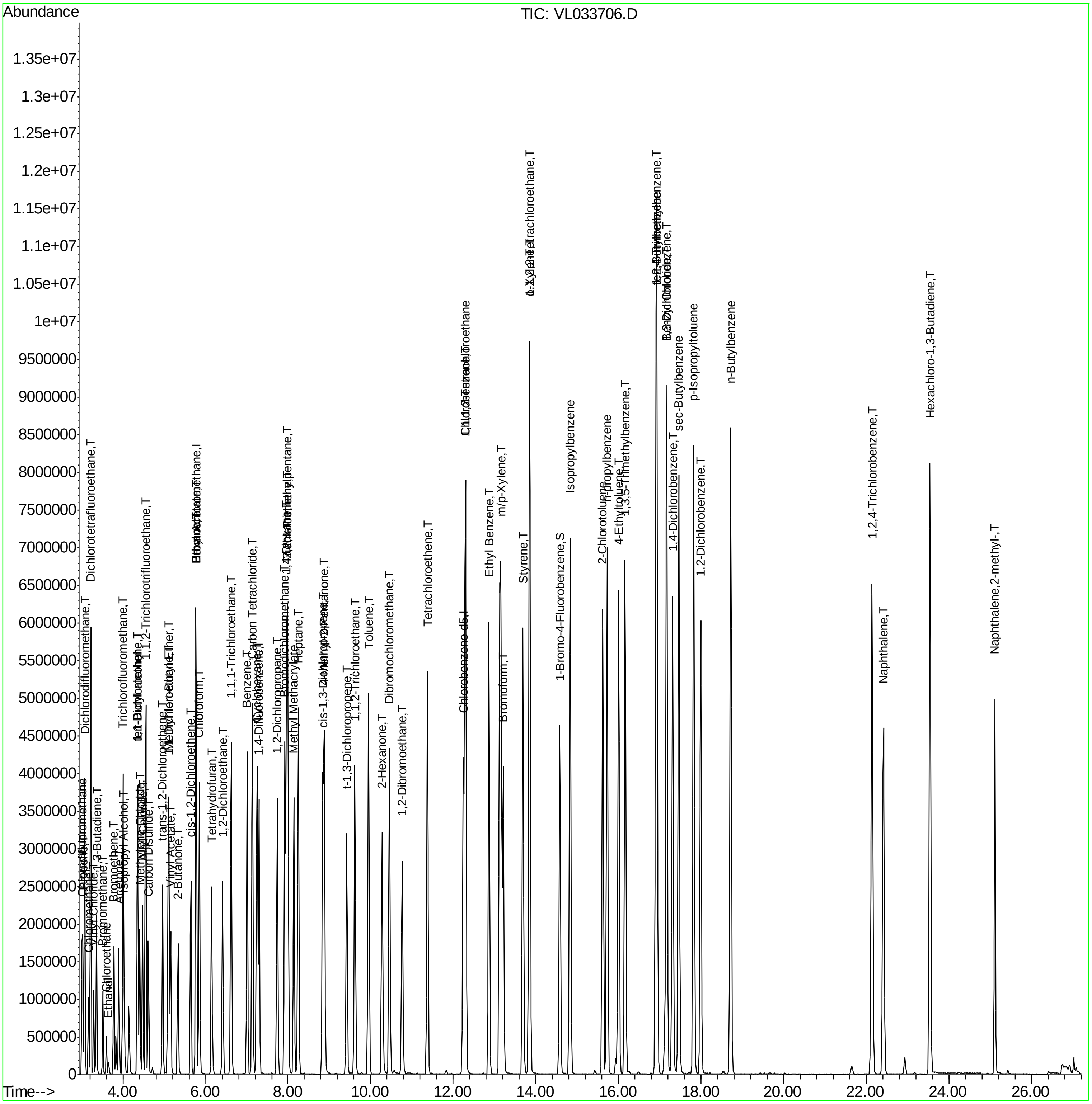
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	5811171	14.339 ppbv		99
45) t-1,3-Dichloropropene	9.42	75	1973982	17.938 ppbv		97
46) cis-1,3-Dichloropropene	8.84	75	2190967	16.017 ppbv		97
47) 1,1,2-Trichloroethane	9.62	97	1484785	14.613 ppbv		97
48) Dibromochloromethane	10.45	129	2779248	16.094 ppbv		99
49) Bromoform	13.21	173	2494987	16.889 ppbv		100
50) 4-Methyl-2-Pentanone	8.87	43	3783217	14.802 ppbv		99
51) 2-Hexanone	10.27	43	3185024	16.005 ppbv	#	100
52) Tetrachloroethene	11.38	164	1340273	15.918 ppbv		98
53) Toluene	9.95	91	4154497	16.149 ppbv		100
54) 1,2-Dibromoethane	10.76	107	2389134	15.571 ppbv		99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1843642	13.582 ppbv	#	76
57) Chlorobenzene	12.30	112	3202998	13.235 ppbv		99
58) Ethyl Benzene	12.87	91	5702412	14.834 ppbv		100
59) m/p-Xylene	13.15	91	5281325	15.593 ppbv	#	43
60) o-Xylene	13.85	91	4815774	14.088 ppbv		99
61) Styrene	13.69	104	3690204	16.172 ppbv		100
62) Isopropylbenzene	14.83	105	6560304	14.028 ppbv		99
63) 1,1,2,2-Tetrachloroethane	13.84	83	3356400	13.535 ppbv		100
64) n-propylbenzene	15.73	120	1739977	14.425 ppbv		96
65) tert-Butylbenzene	16.91	119	5904865	13.769 ppbv		100
66) Benzyl Chloride	17.16	91	3462694	17.638 ppbv		99
67) sec-Butylbenzene	17.46	105	8197568	13.731 ppbv		99
69) p-Isopropyltoluene	17.82	119	7001600	14.218 ppbv		100
70) n-Butylbenzene	18.71	91	7428221	14.275 ppbv		99
71) 2-Chlorotoluene	15.62	91	5020756	14.547 ppbv		99
72) 4-Ethyltoluene	16.00	105	5815207	14.487 ppbv		99
73) 1,3,5-Trimethylbenzene	16.16	105	5517335	14.234 ppbv		100
74) 1,2,4-Trimethylbenzene	16.93	105	5715024	13.226 ppbv		97
75) 1,3-Dichlorobenzene	17.17	146	3386091	13.019 ppbv		99
76) 1,4-Dichlorobenzene	17.31	146	3419836	13.856 ppbv		100
77) 1,2-Dichlorobenzene	17.99	146	3275090	13.566 ppbv		100
78) Hexachloro-1,3-Butadiene	23.54	225	2255882	11.783 ppbv		99
79) Naphthalene	22.41	128	6036994	15.291 ppbv		100
80) Naphthalene,2-methyl-	25.11	142	2633981	17.474 ppbv		99
81) 1,2,4-Trichlorobenzene	22.14	180	3248667	14.150 ppbv		100

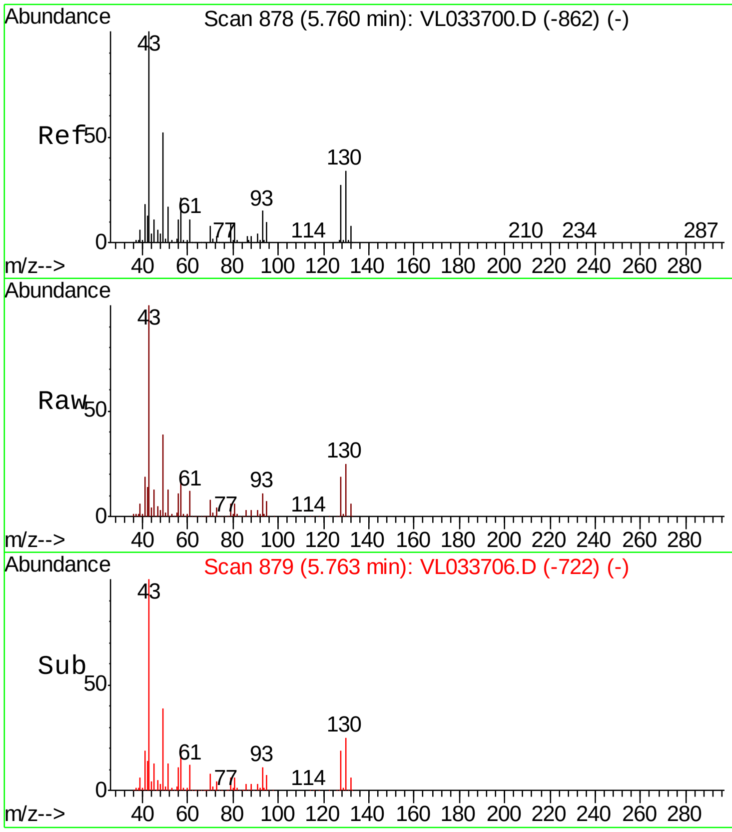
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL051719\
Data File : VL033706.D
Acq On : 17 May 2019 5:53
Operator : SY/AP
Sample : VSTDICC015
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Quant Time: May 17 07:13:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri May 17 07:07:57 2019
QLast Update : Fri May 17 07:07:57 2019
Response via : Initial Calibration



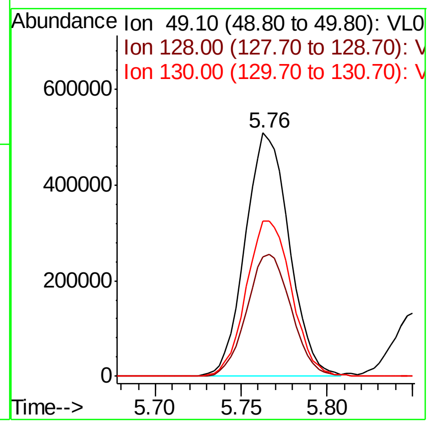


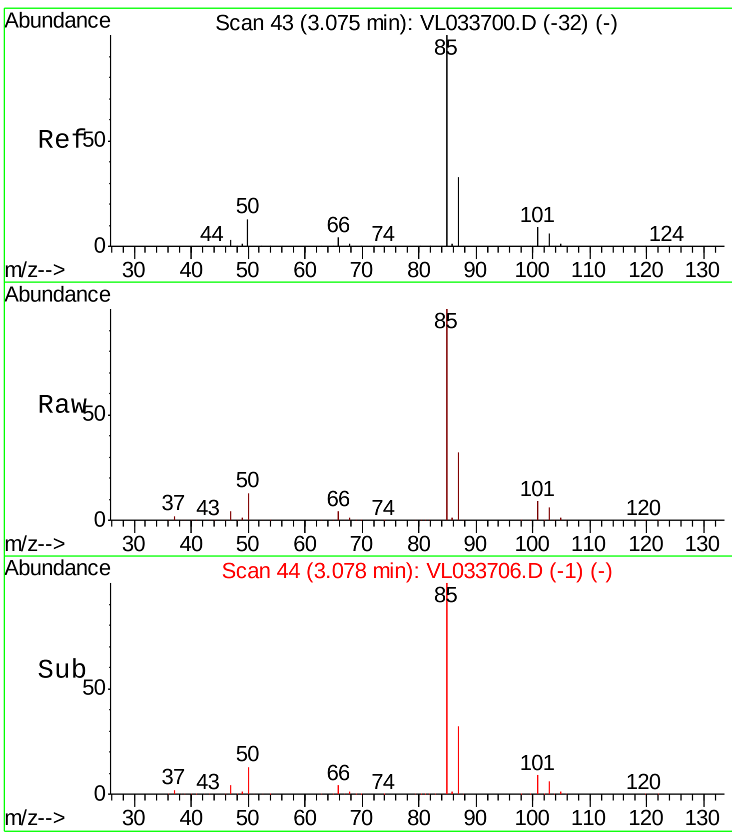
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 879
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 49 Resp: 906328

Ion	Ratio	Lower	Upper
49	100		
128	50.9	25.2	75.6
130	66.0	32.5	97.5

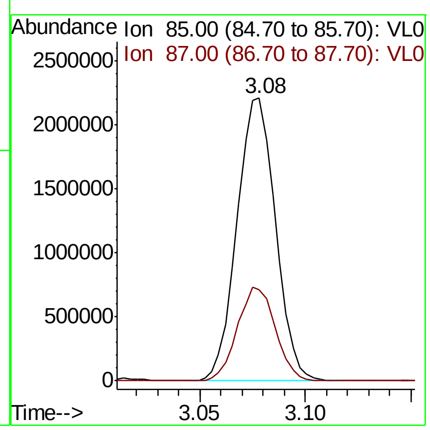




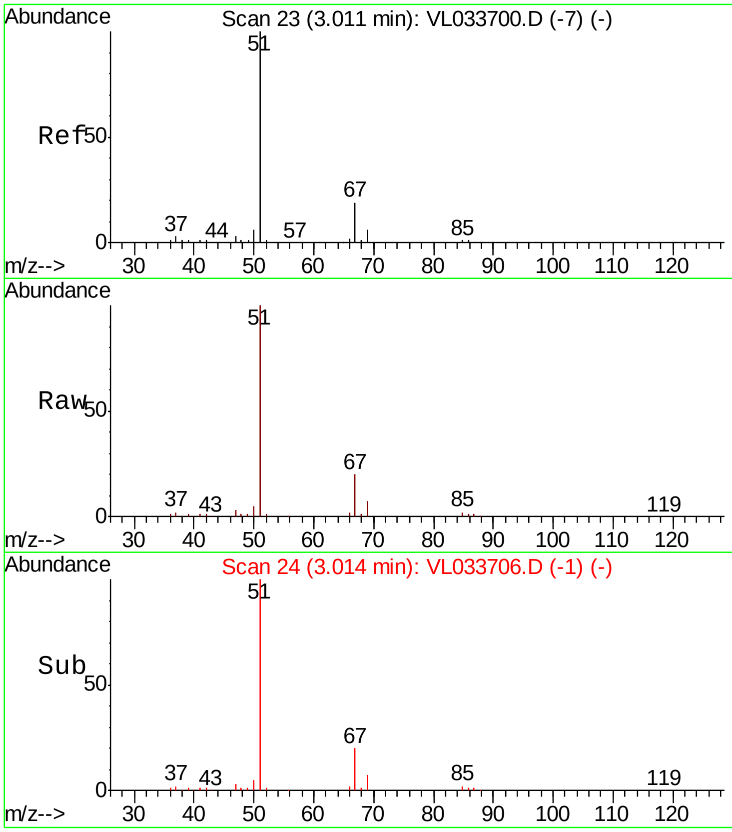
#2
Dichlorodifluoromethane
Concen: 13.530 ppbv
RT: 3.08 min Scan# 44
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 85 Resp: 2803027

Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.3	39.5



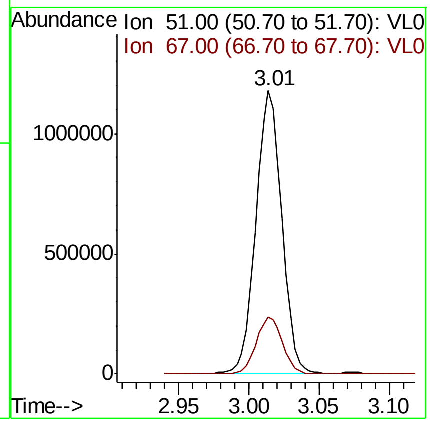
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

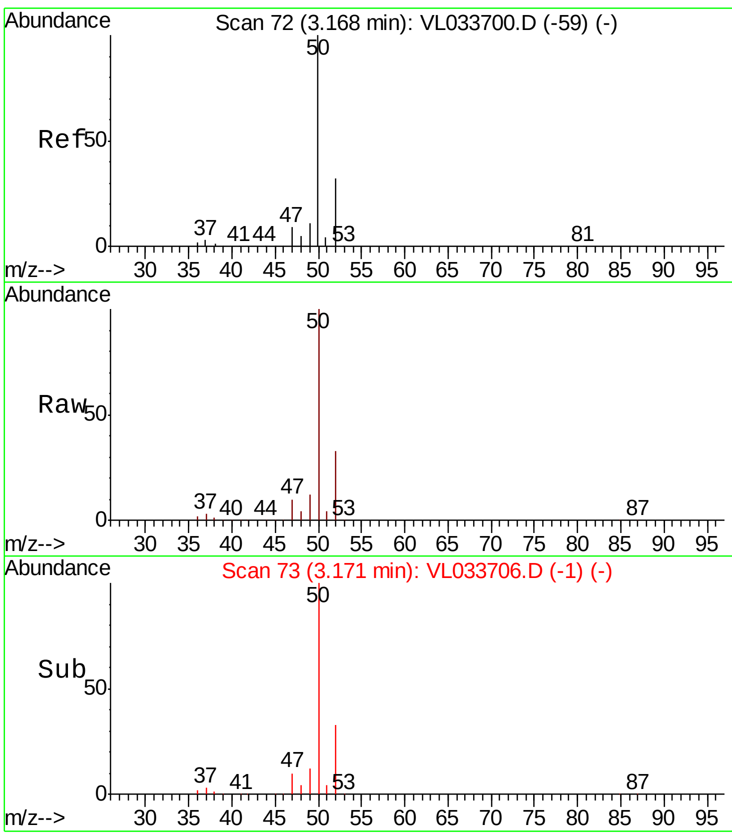


#3
Chlorodifluoromethane
Concen: 11.707 ppbv
RT: 3.01 min Scan# 24
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 51 Resp: 1522364

Ion	Ratio	Lower	Upper
51	100		
67	20.2	15.6	23.4

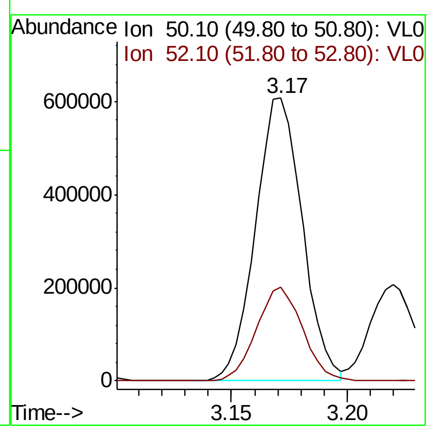


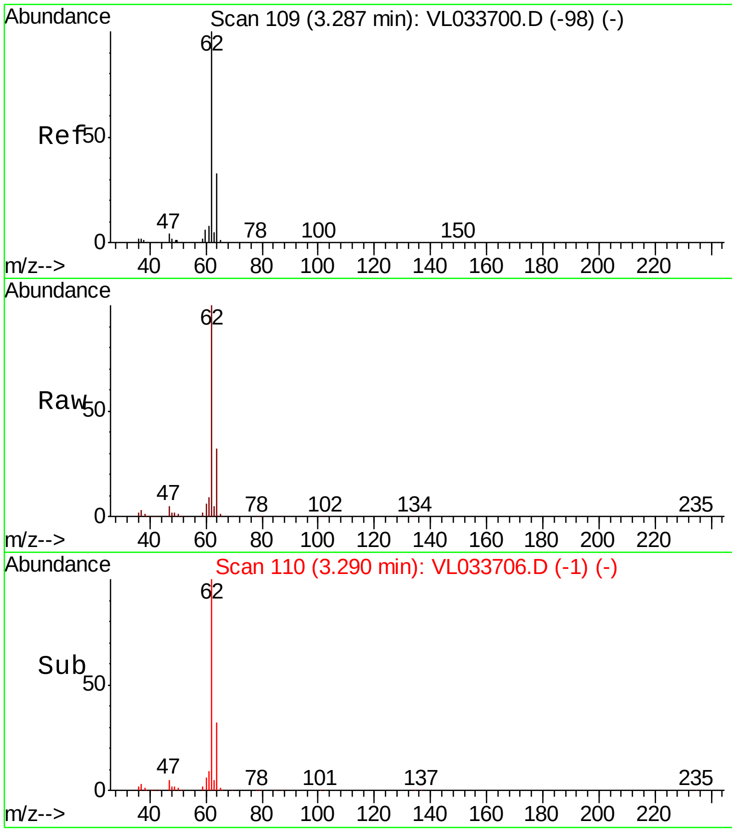


#4
Chloromethane
Concen: 12.670 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 50 Resp: 857141

Ion	Ratio	Lower	Upper
50	100		
52	33.3	25.7	38.5



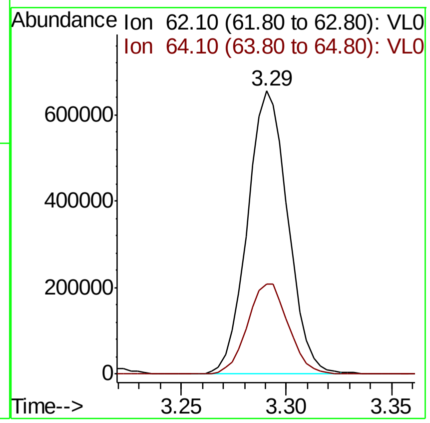


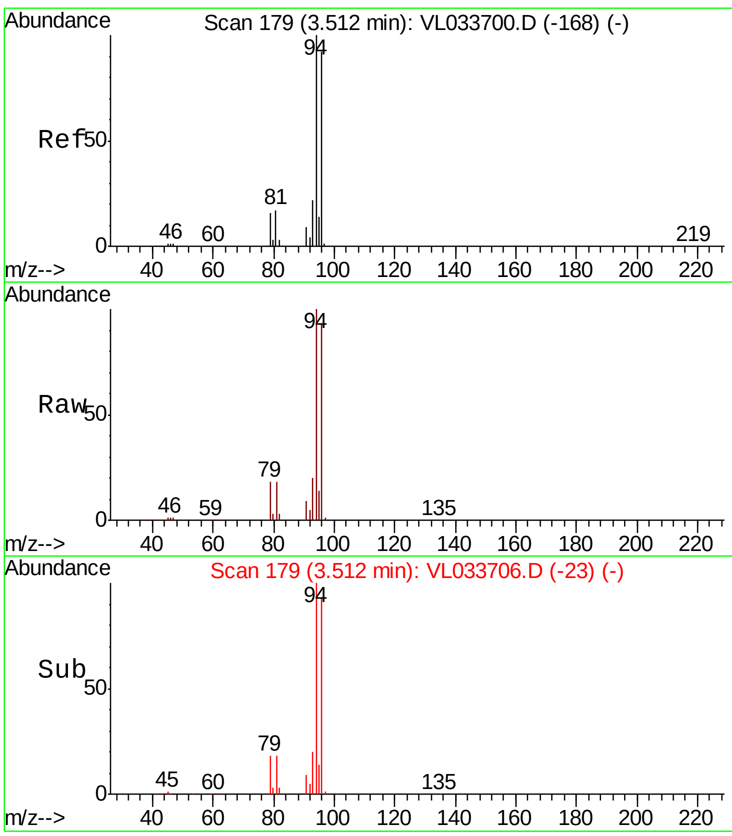
#5
Vinyl Chloride
Concen: 13.254 ppbv
RT: 3.29 min Scan# 110
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 62 Resp: 873188

Ion	Ratio	Lower	Upper
62	100		
64	31.9	26.4	39.6

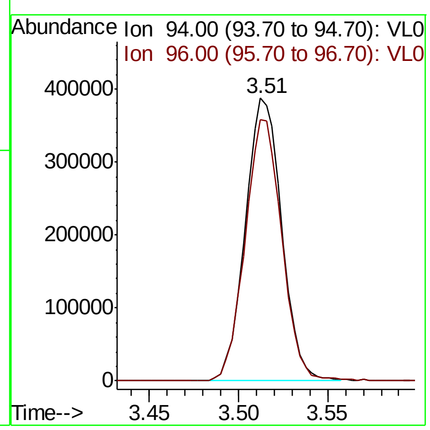




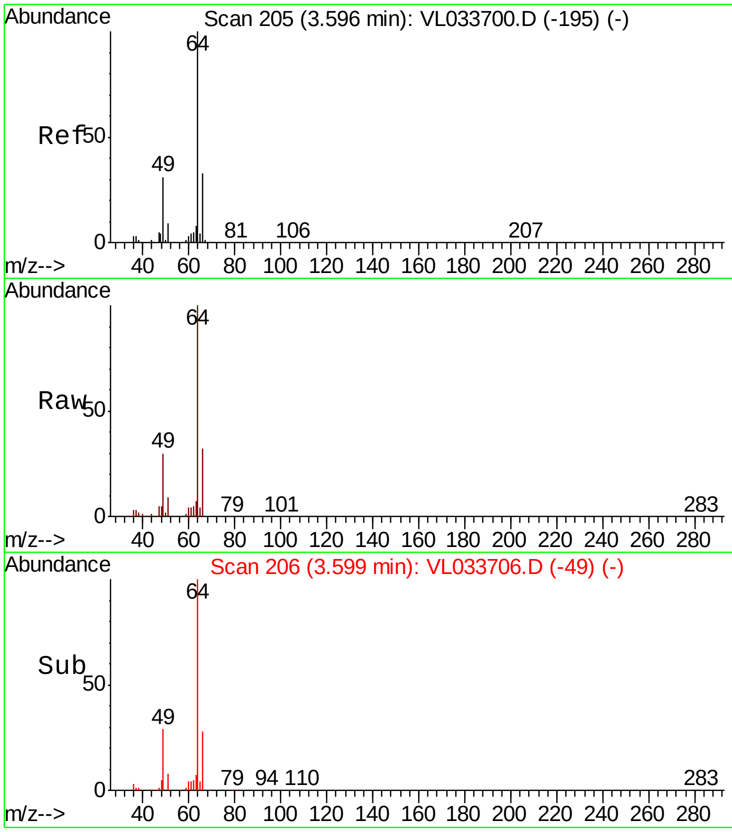
#6
Bromomethane
Concen: 13.135 ppbv
RT: 3.51 min Scan# 179
Delta R.T. -0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 94 Resp: 550859

Ion	Ratio	Lower	Upper
94	100		
96	92.5	73.6	110.4



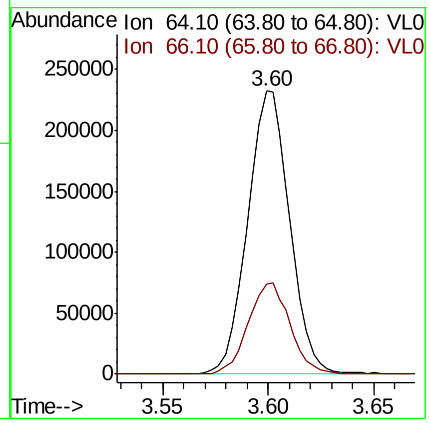
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

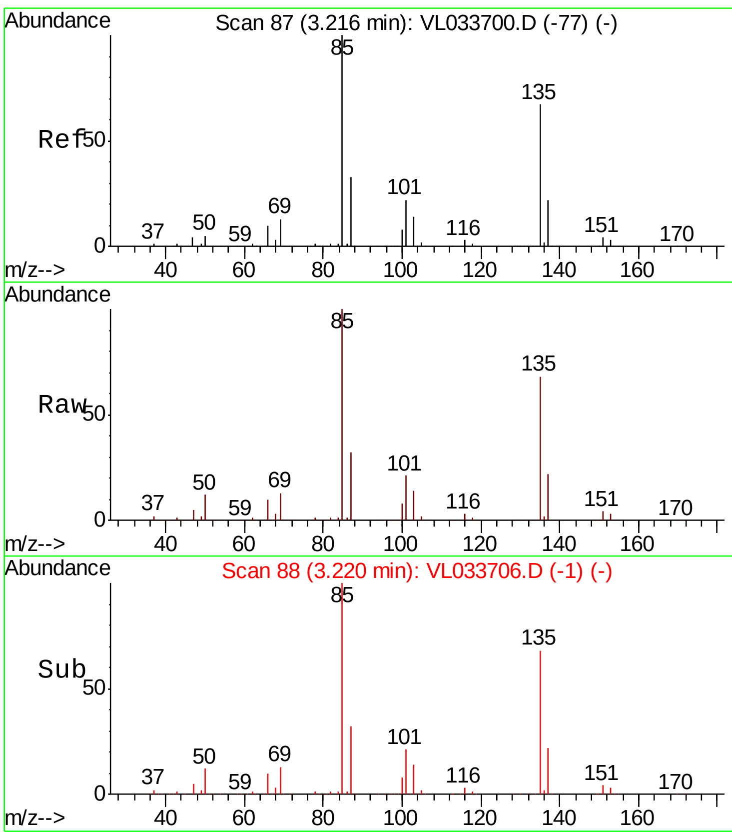


#7
Chloroethane
Concen: 13.417 ppbv
RT: 3.60 min Scan# 206
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 64 Resp: 321605

Ion	Ratio	Lower	Upper
64	100		
66	31.7	26.6	40.0

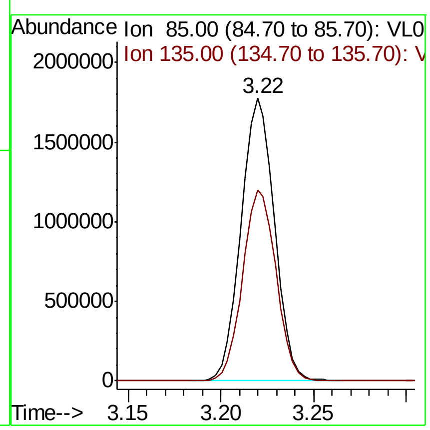


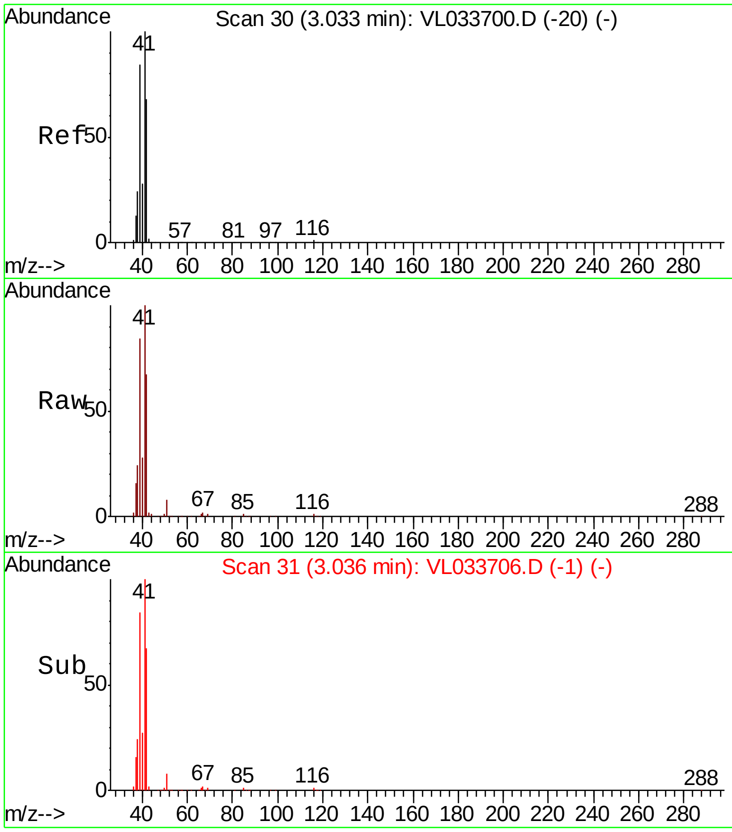


#8
Dichlorotetrafluoroethane
Concen: 12.841 ppbv
RT: 3.22 min Scan# 88
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 85 Resp: 2228553

Ion	Ratio	Lower	Upper
85	100		
135	67.9	54.5	81.7



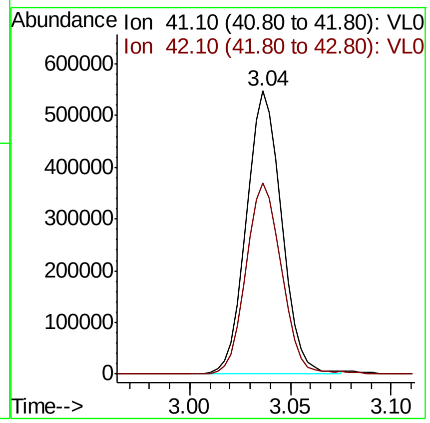


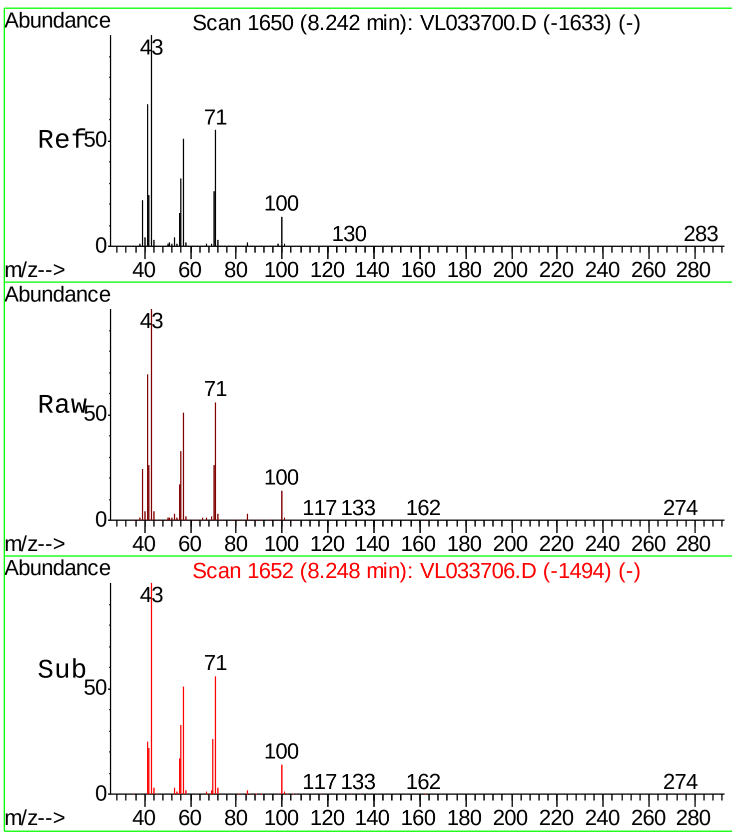
#9
Propene
Concen: 13.556 ppbv
RT: 3.04 min Scan# 31
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 674798

Ion	Ratio	Lower	Upper
41	100		
42	68.5	56.1	84.1

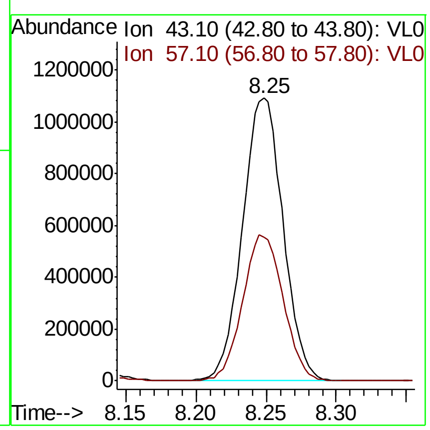


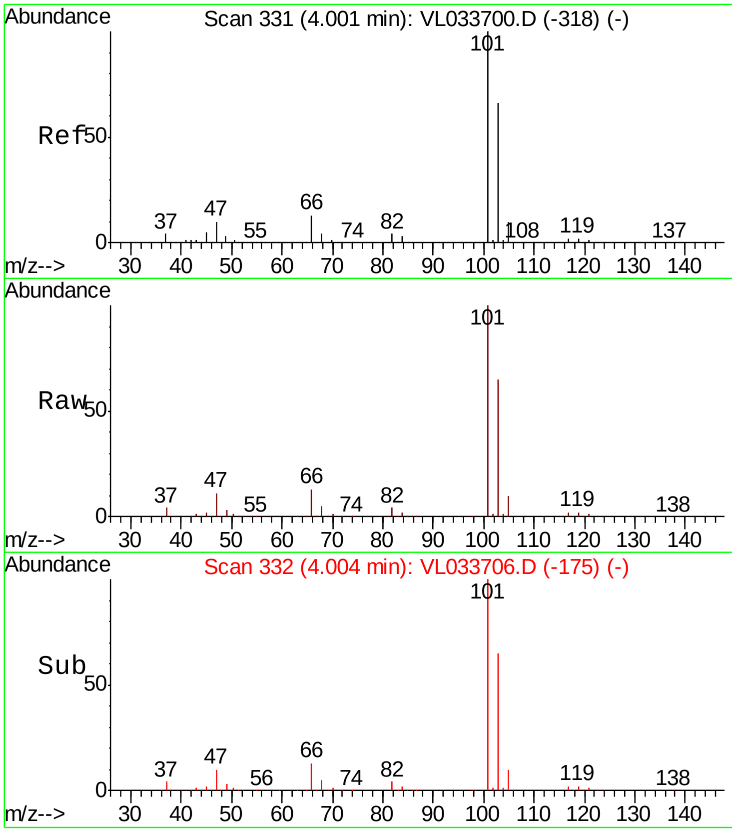


#10
Heptane
Concen: 17.773 ppbv
RT: 8.25 min Scan# 1652
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 43 Resp: 2192447

Ion	Ratio	Lower	Upper
43	100		
57	51.9	41.4	62.0



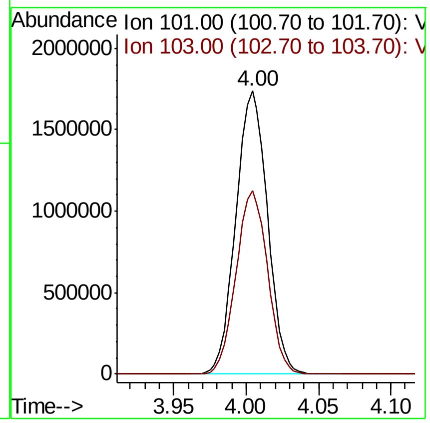


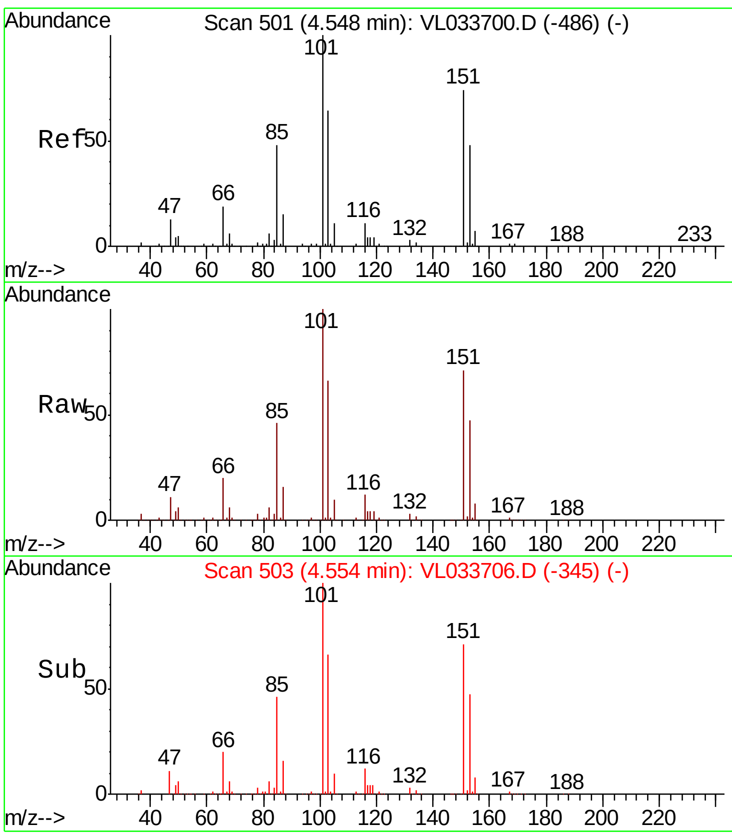
#11
Trichlorofluoromethane
Concen: 13.199 ppbv
RT: 4.00 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:101 Resp: 2632367

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.6	78.8

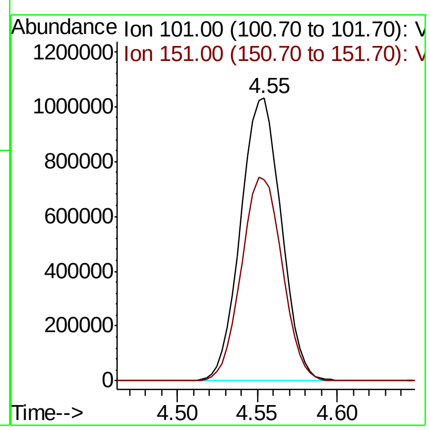


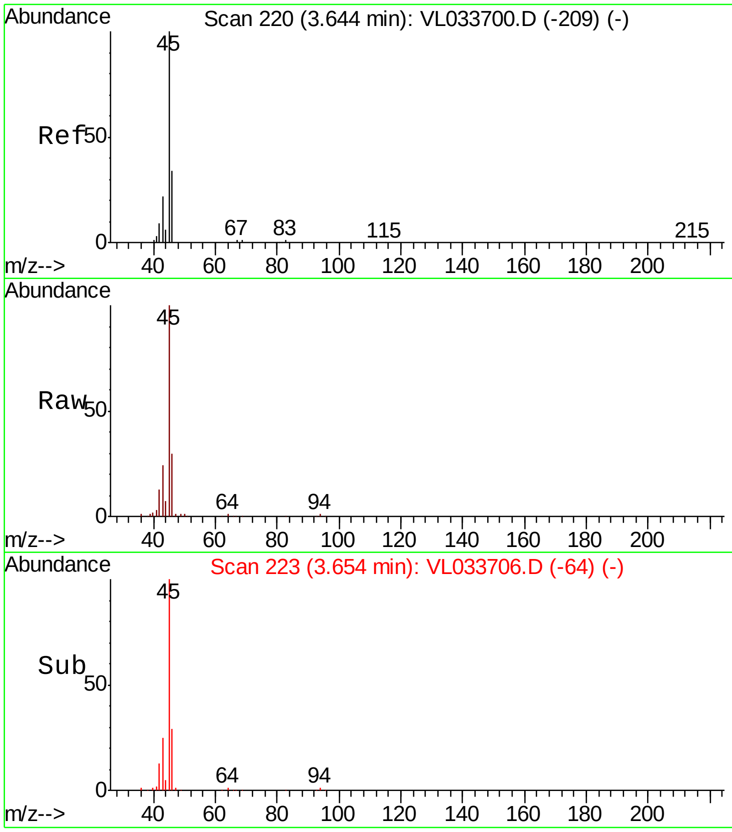


#12
1,1,2-Trichlorotrifluoroethane
Concen: 13.318 ppbv
RT: 4.55 min Scan# 503
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion:101 Resp: 1791396

Ion	Ratio	Lower	Upper
101	100		
151	72.7	58.2	87.4



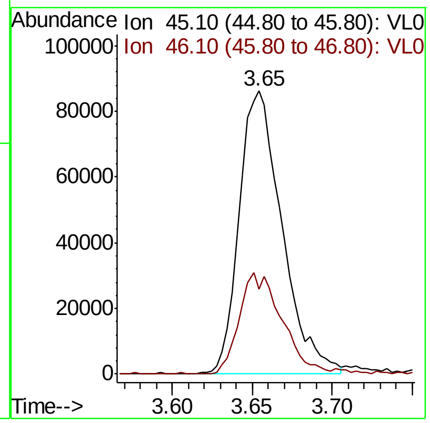


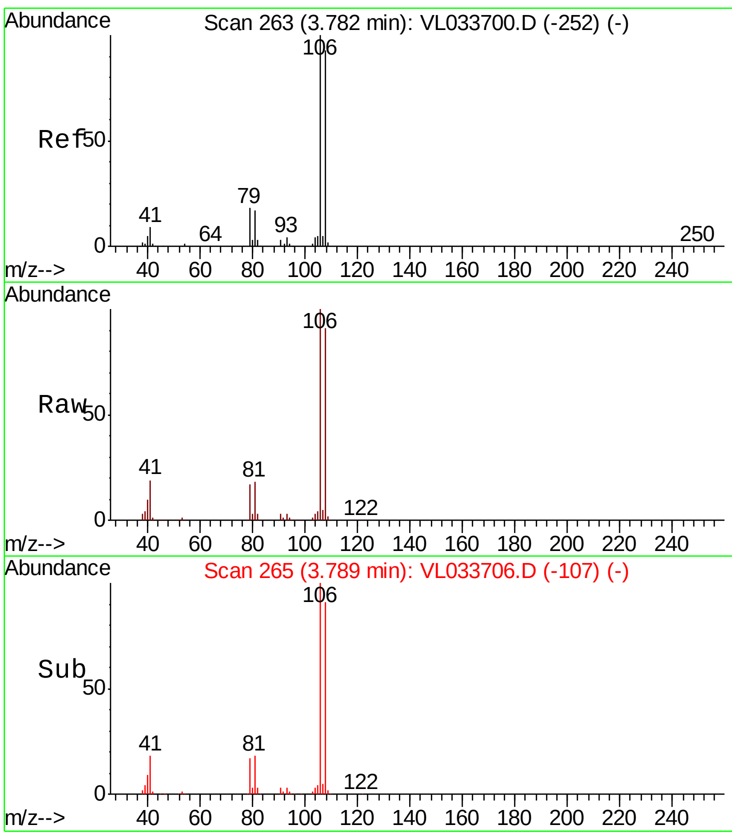
#13
Ethanol
Concen: 10.414 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument : MSVOA_L
ClientSampleId : VSTDICC015

Tgt Ion: 45 Resp: 157880

Ion	Ratio	Lower	Upper
45	100		
46	37.0	14.8	59.0

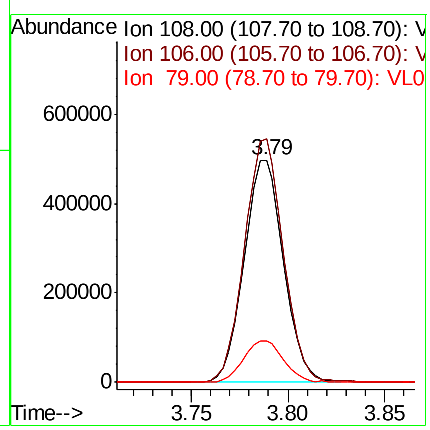


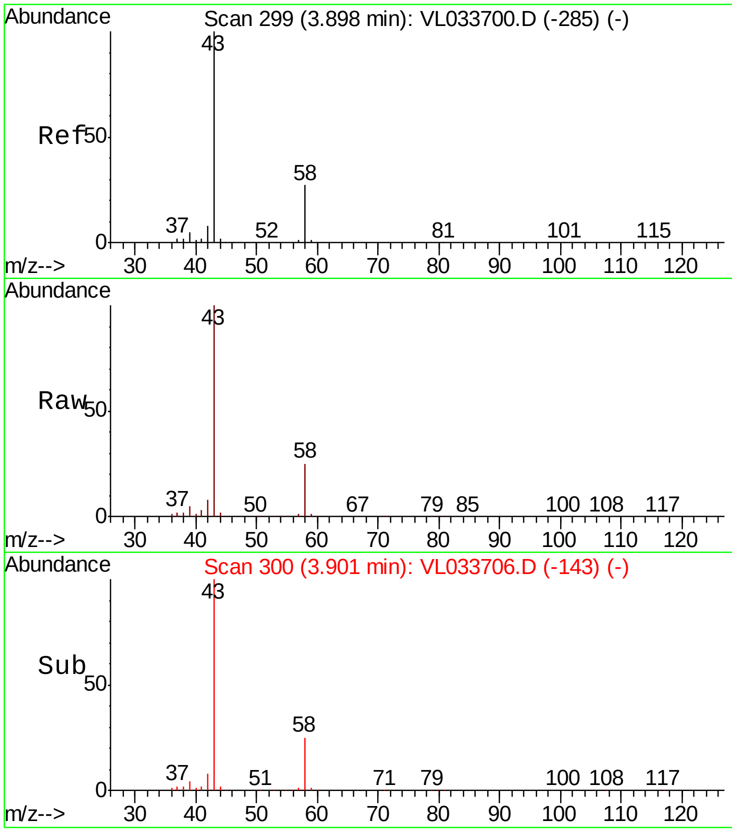


#14
Bromoethene
Concen: 13.595 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion:108 Resp: 705803

Ion	Ratio	Lower	Upper
108	100		
106	108.3	86.5	129.7
79	19.4	15.1	22.7



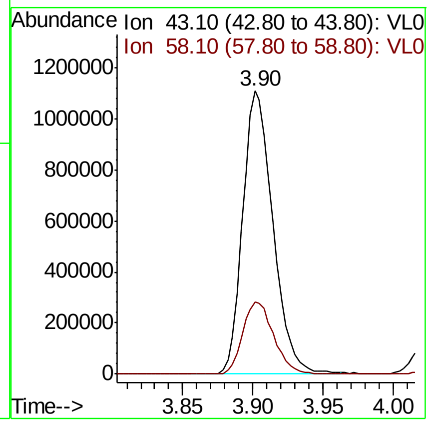


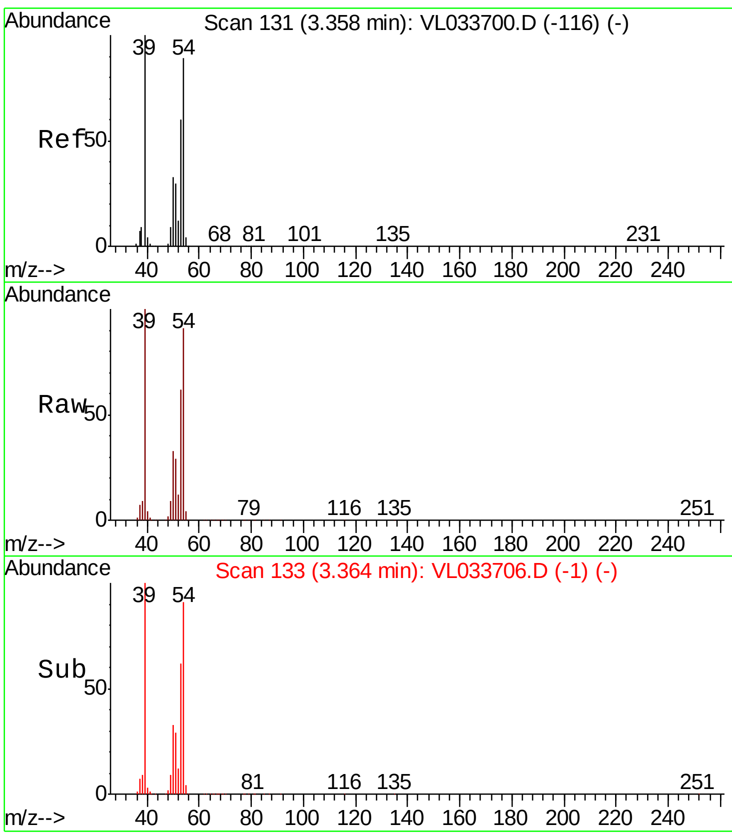
#15
Acetone
Concen: 12.330 ppbv
RT: 3.90 min Scan# 300
Delta R.T.   0.00 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 1673105

Ion	Ratio	Lower	Upper
43	100		
58	26.2	21.3	31.9

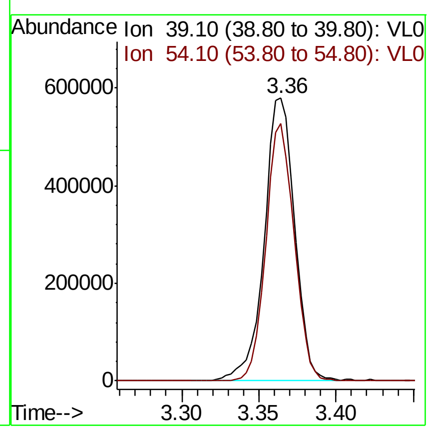


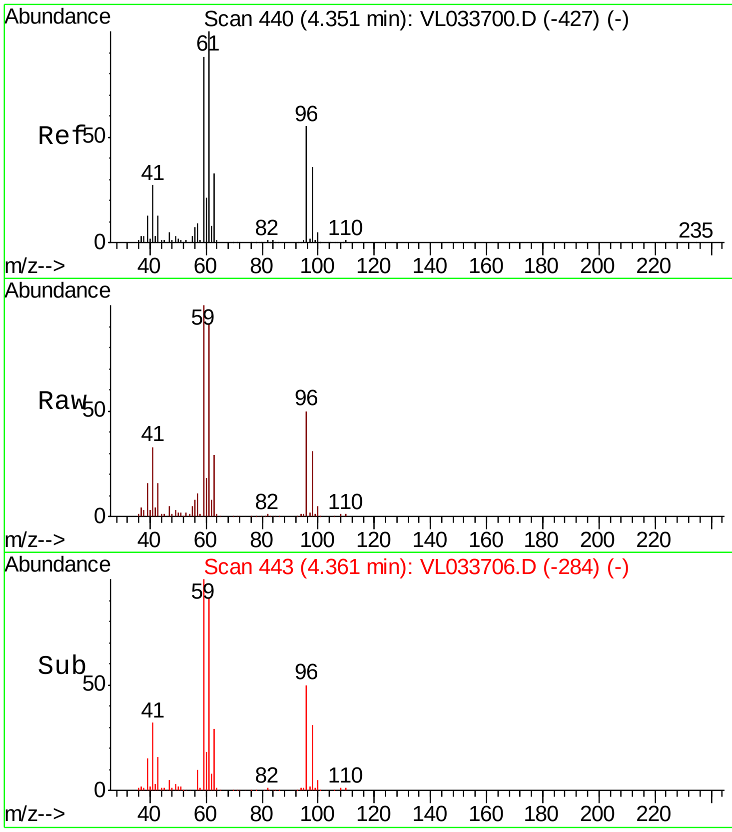


#16
1,3-Butadiene
Concen: 13.980 ppbv
RT: 3.36 min Scan# 133
Delta R.T.   0.01 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Tgt Ion: 39 Resp: 796053

Ion	Ratio	Lower	Upper
39	100		
54	85.0	69.0	103.6



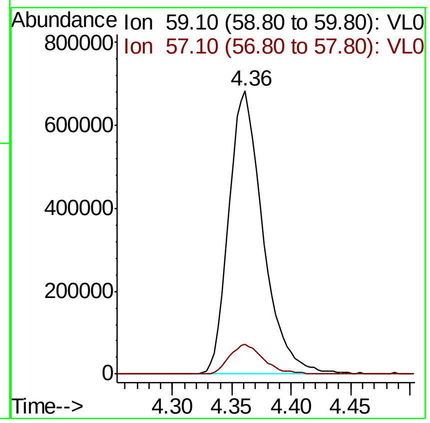


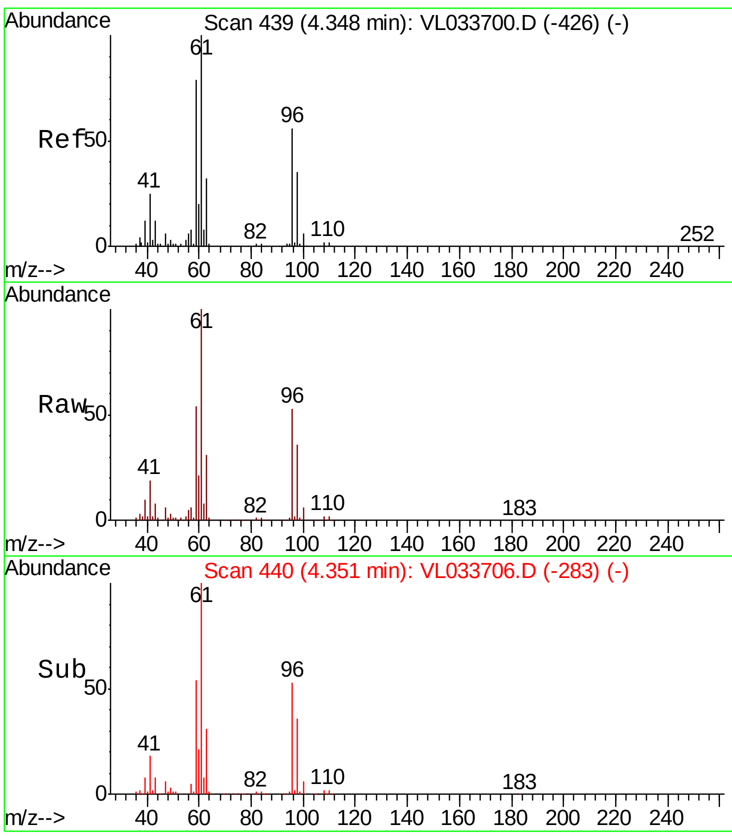
#17
tert-Butyl alcohol
Concen: 13.102 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 59 Resp: 1367878

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.4	12.6

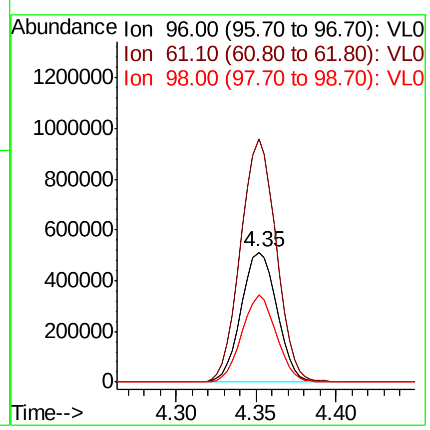




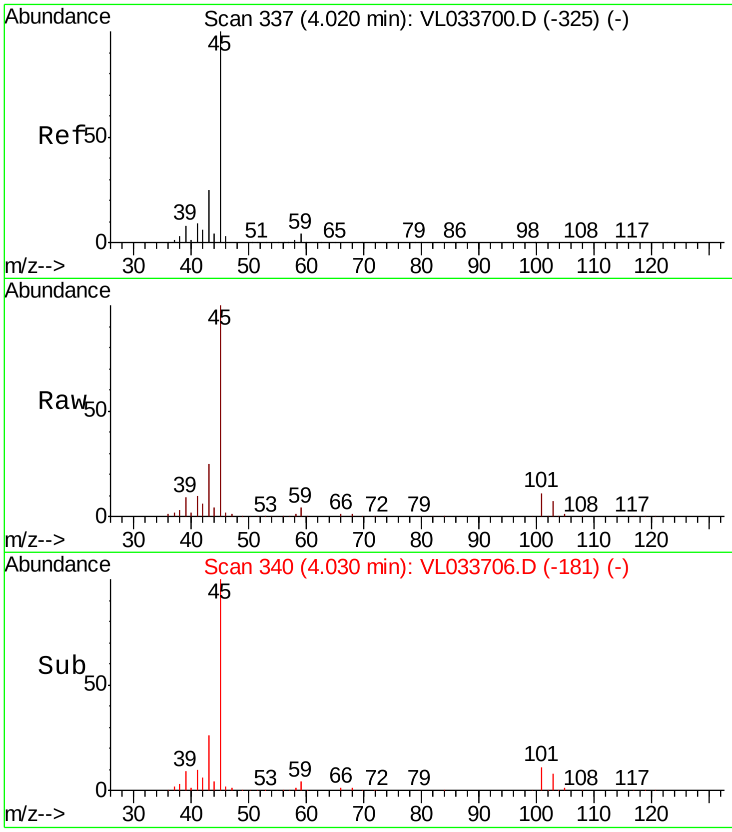
#18
1,1-Dichloroethene
Concen: 13.504 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 96 Resp: 782236

Ion	Ratio	Lower	Upper
96	100		
61	187.7	143.1	214.7
98	67.0	49.5	74.3



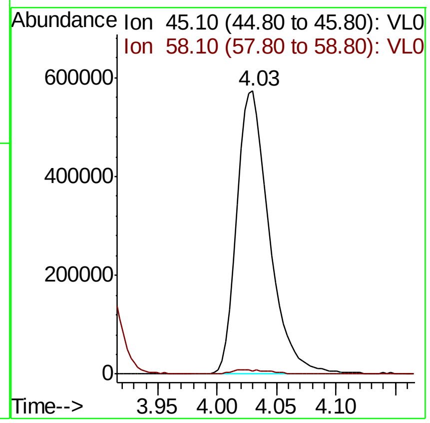
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

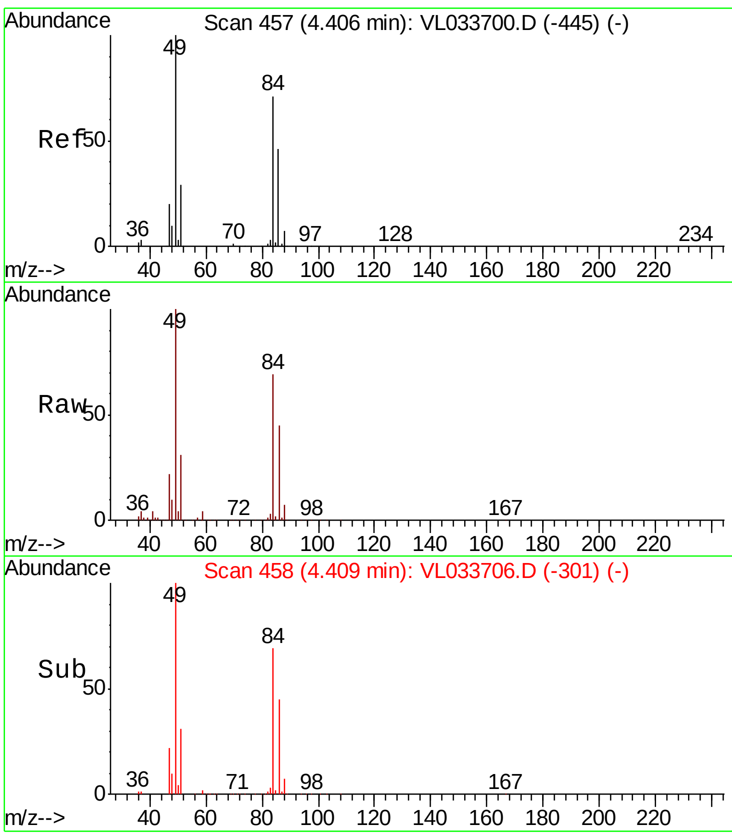


#19
Isopropyl Alcohol
Concen: 12.823 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 45 Resp: 1086363

Ion	Ratio	Lower	Upper
45	100		
58	2.1	1.6	2.4

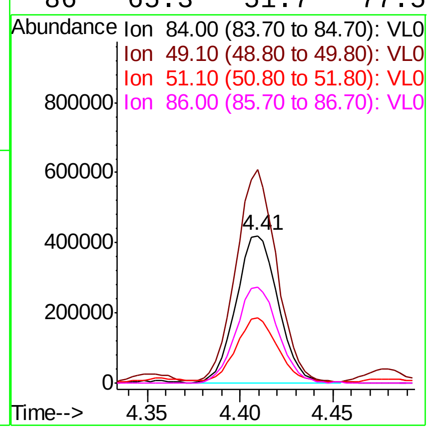


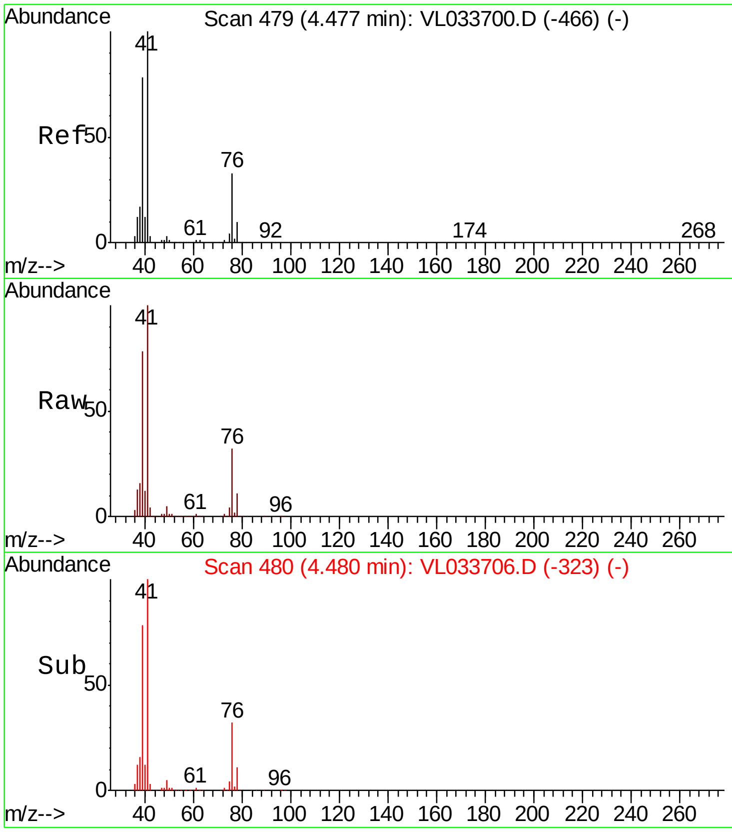


#20
Methylene Chloride
Concen: 12.814 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 84 Resp: 657391

Ion	Ratio	Lower	Upper
84	100		
49	144.3	112.8	169.2
51	44.1	33.4	50.0
86	65.3	51.7	77.5



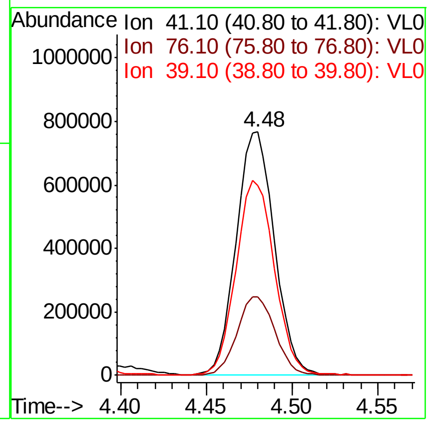


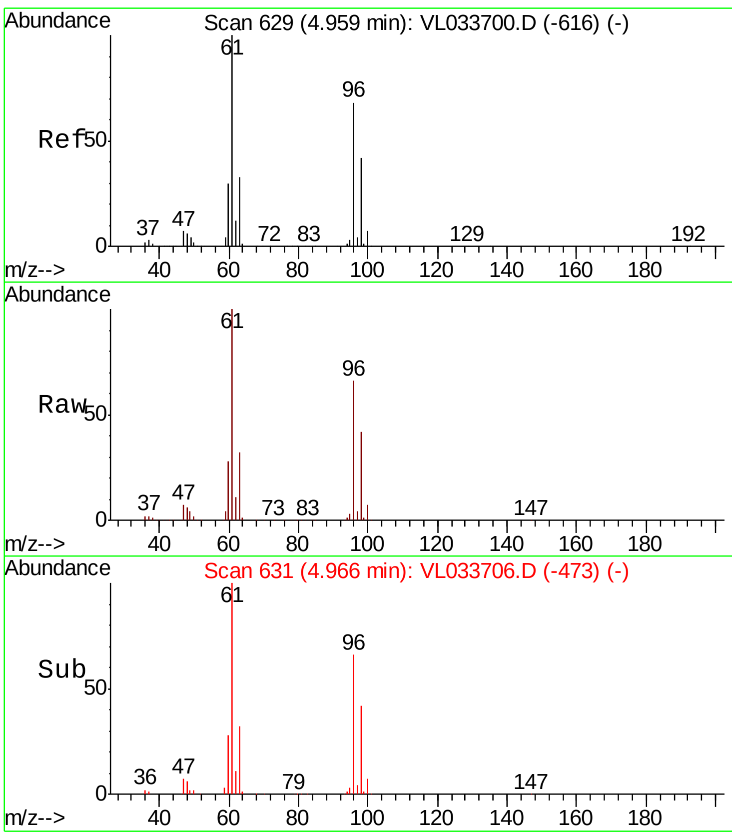
#21
Allyl Chloride
Concen: 14.291 ppbv
RT: 4.48 min Scan# 480
Delta R.T.   0.00 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 41 Resp: 1177889

Ion	Ratio	Lower	Upper
41	100		
76	32.4	25.9	38.9
39	81.4	64.6	97.0

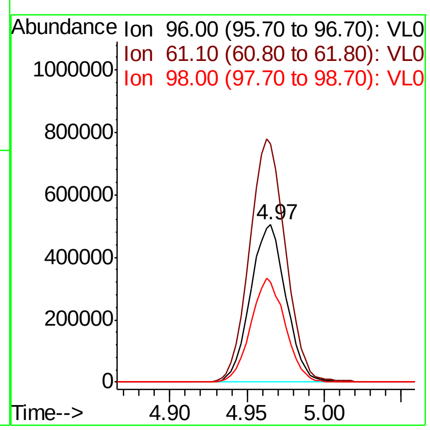


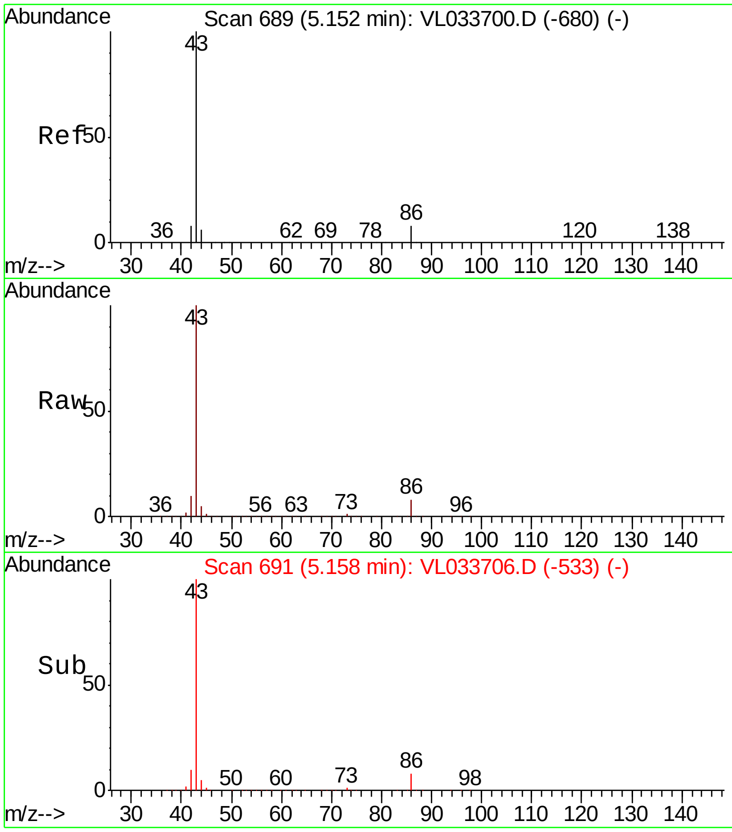


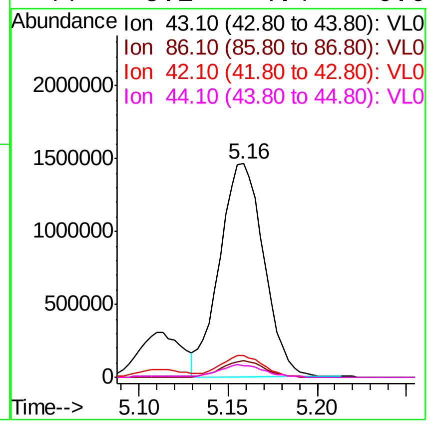
#22
trans-1,2-Dichloroethene
Concen: 14.126 ppbv
RT: 4.97 min Scan# 631
Delta R.T.   0.01 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Tgt Ion: 96 Resp: 811561

Ion	Ratio	Lower	Upper
96	100		
61	151.3	116.8	175.2
98	63.8	49.4	74.0





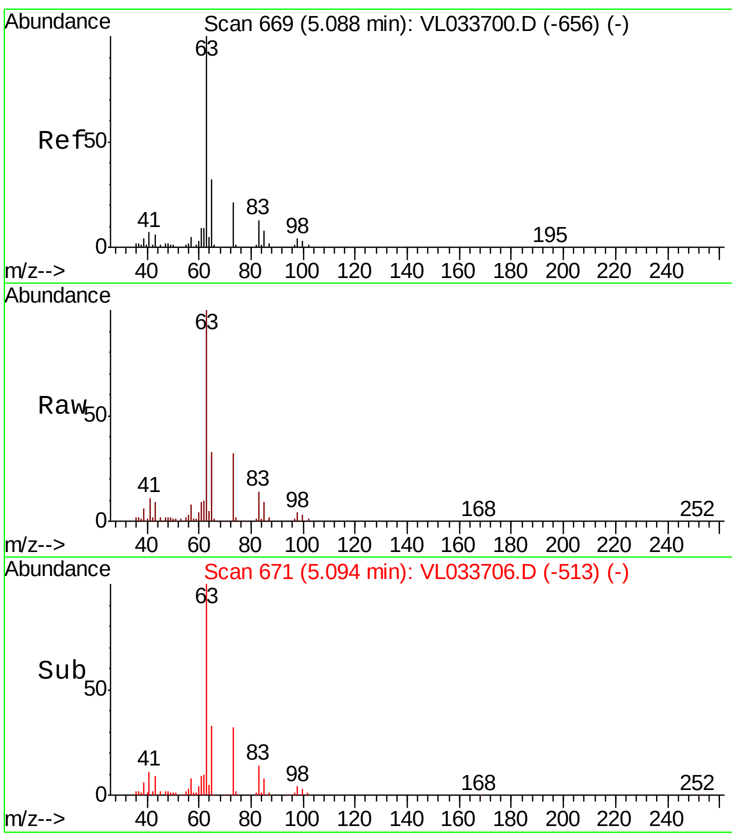


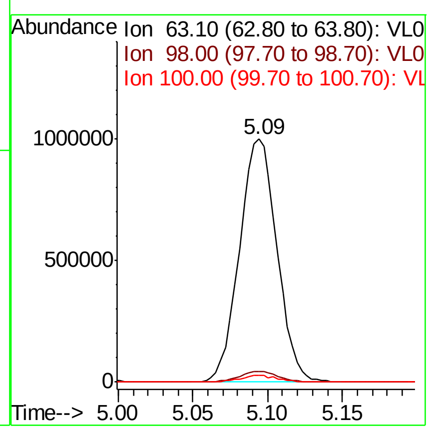
#23
Vinyl Acetate
Concen: 14.466 ppbv
RT: 5.16 min Scan# 691
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 2530413

Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.0	9.0
42	9.9	7.5	11.3
44	5.1	4.4	6.6



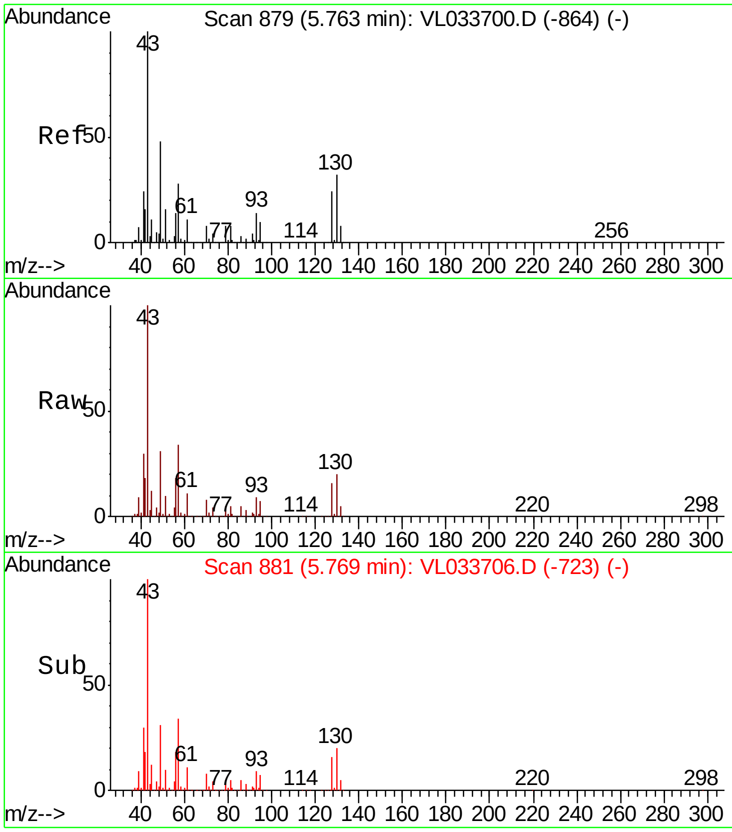


#24
1,1-Dichloroethane
Concen: 13.221 ppbv
RT: 5.09 min Scan# 671
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 63 Resp: 1746940

Ion	Ratio	Lower	Upper
63	100		
98	4.4	1.8	5.5
100	2.9	1.4	4.2

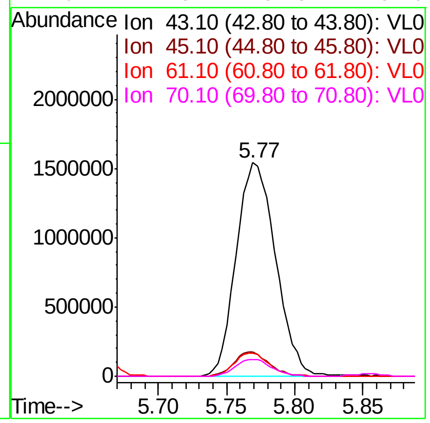
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

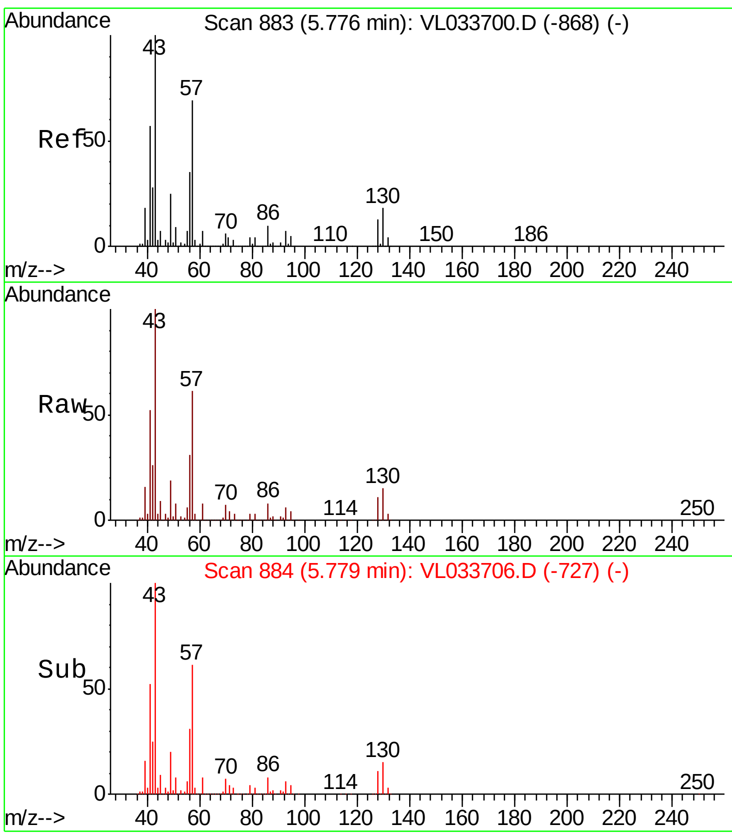


#25
Ethyl Acetate
Concen: 14.033 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 43 Resp: 3101243

Ion	Ratio	Lower	Upper
43	100		
45	10.3	7.9	11.9
61	9.7	7.7	11.5
70	7.3	5.8	8.6

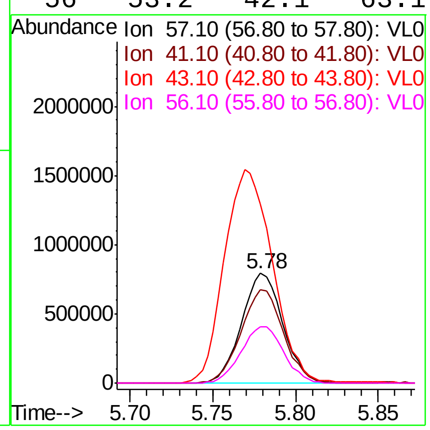


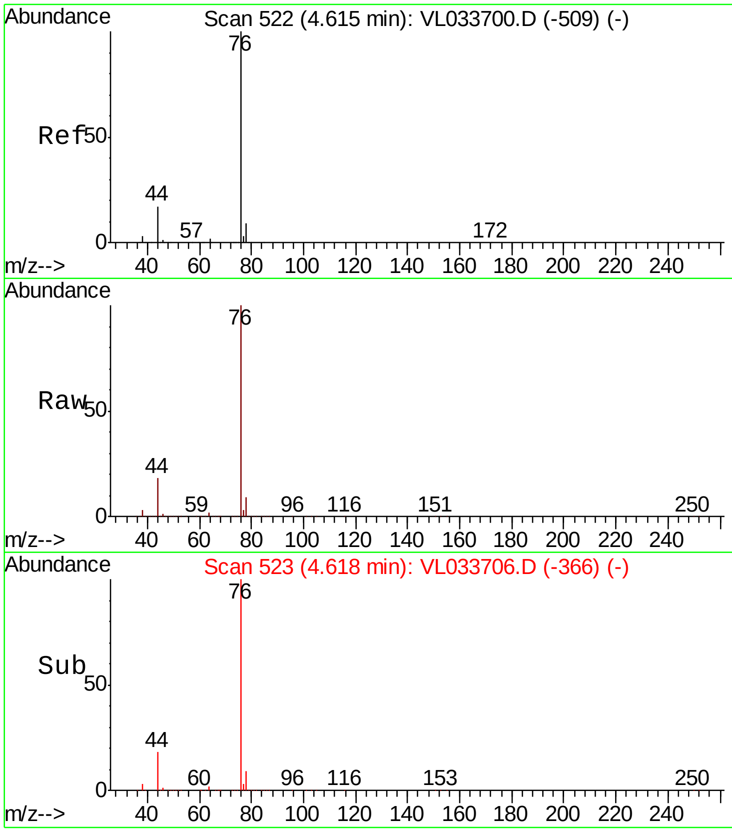


#26
Hexane
Concen: 14.410 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 57 Resp: 1369431

Ion	Ratio	Lower	Upper
57	100		
41	87.6	69.8	104.6
43	227.4	181.8	272.6
56	53.2	42.1	63.1



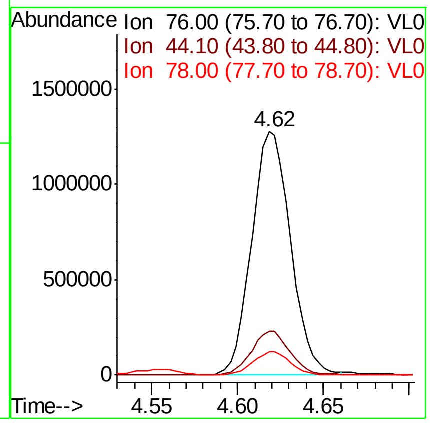


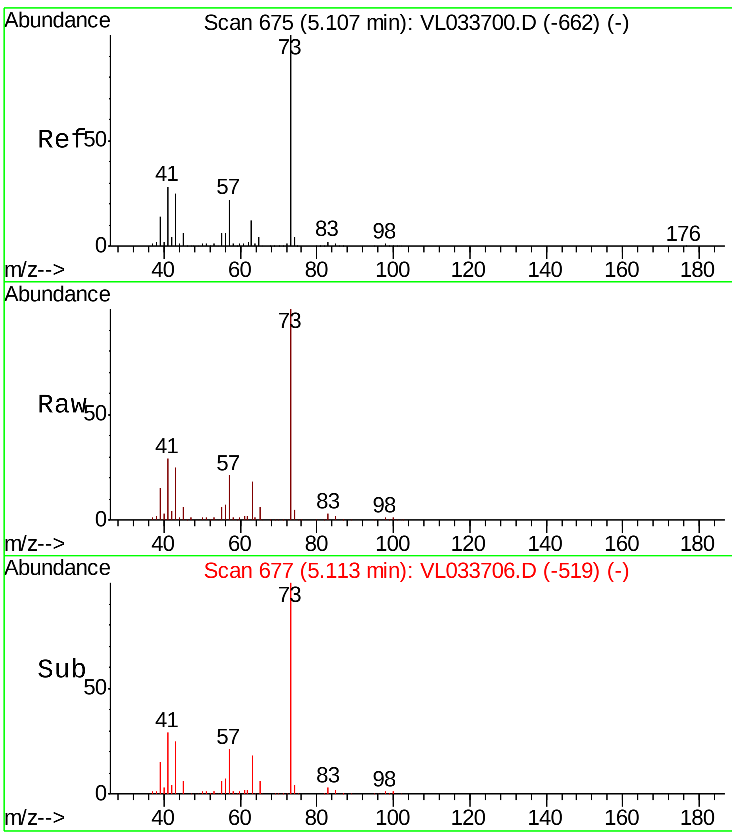
#27
Carbon Disulfide
Concen: 15.407 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 76 Resp: 2010057

Ion	Ratio	Lower	Upper
76	100		
44	17.7	13.8	20.8
78	9.5	7.4	11.0

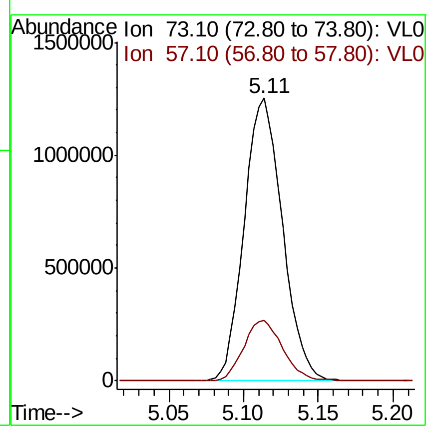


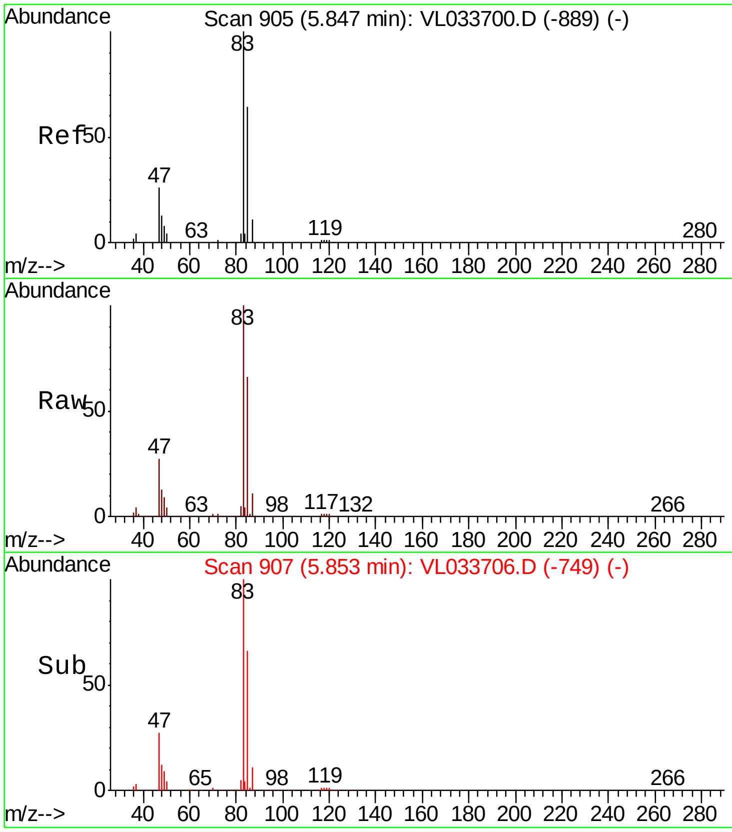


#28
Methyl tert-Butyl Ether
Concen: 14.121 ppbv
RT: 5.11 min Scan# 677
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 73 Resp: 2241512

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.4	26.2



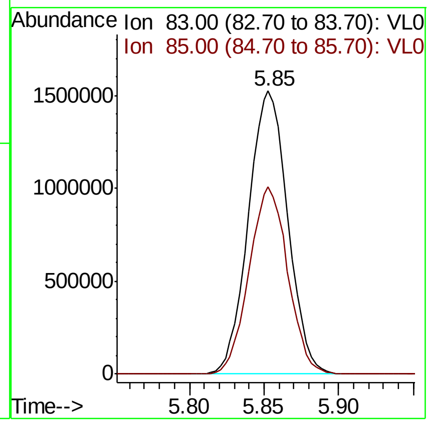


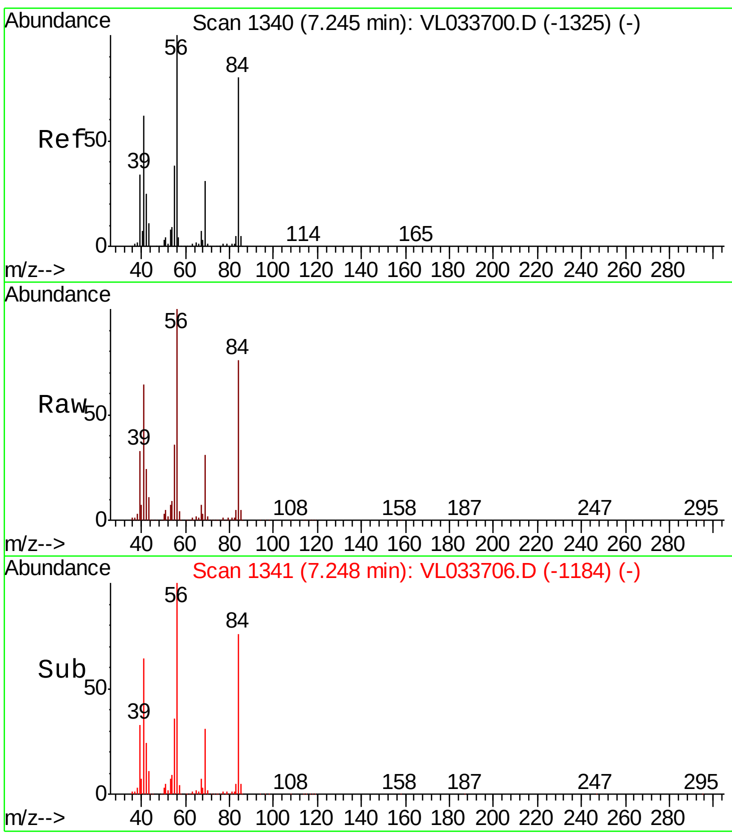
#29
Chloroform
Concen: 16.395 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 2794942

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.5	77.3

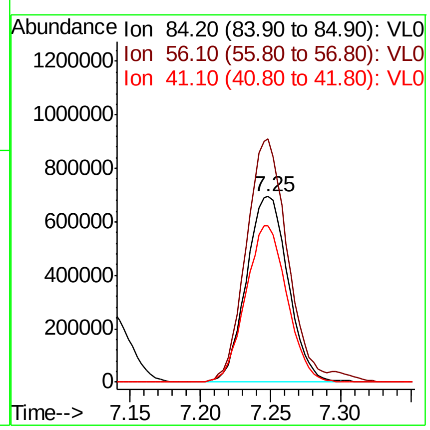


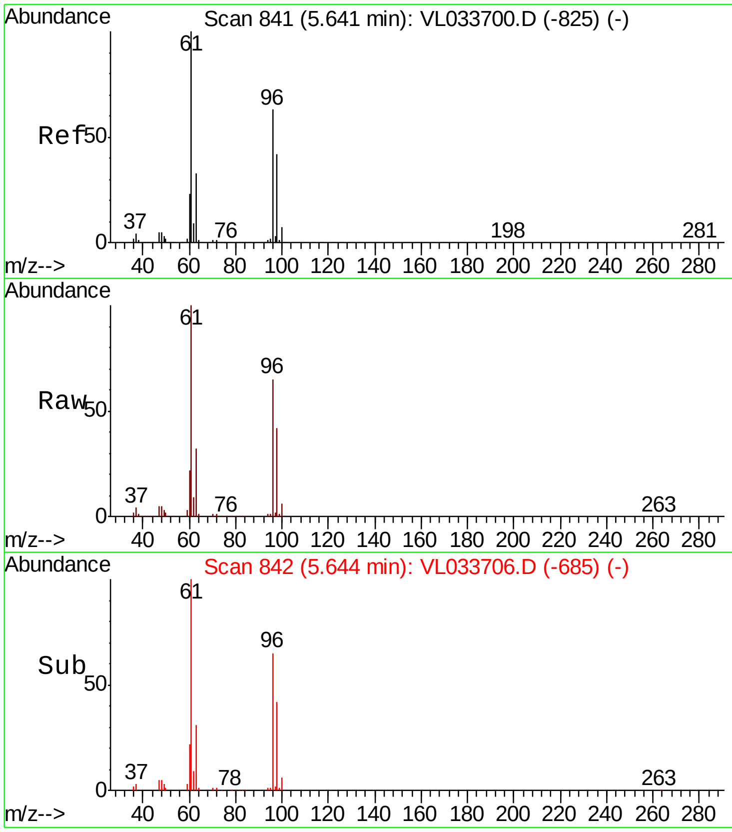


#30
Cyclohexane
Concen: 18.204 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 84 Resp: 1444335

Ion	Ratio	Lower	Upper
84	100		
56	132.4	107.7	161.5
41	83.2	66.0	99.0



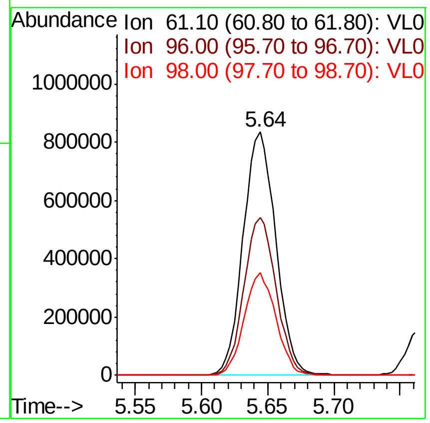


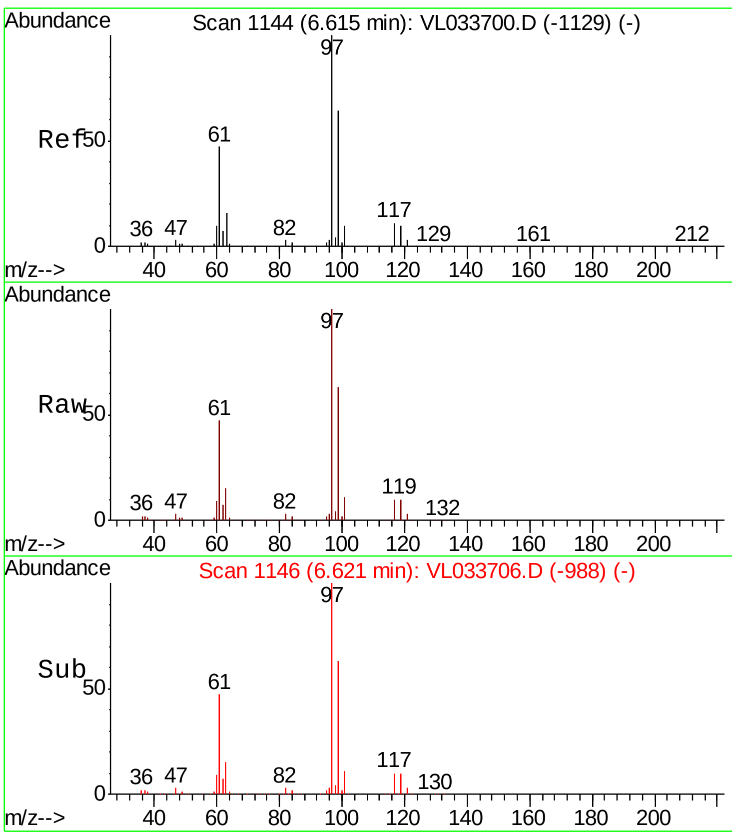
#31
cis-1,2-Dichloroethene
Concen: 15.345 ppbv
RT: 5.64 min   Scan# 842
Delta R.T.   0.00 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 61 Resp: 1433376

Ion	Ratio	Lower	Upper
61	100		
96	64.9	50.8	76.2
98	42.1	33.3	49.9

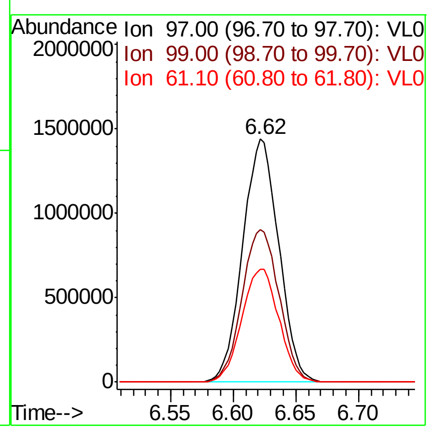


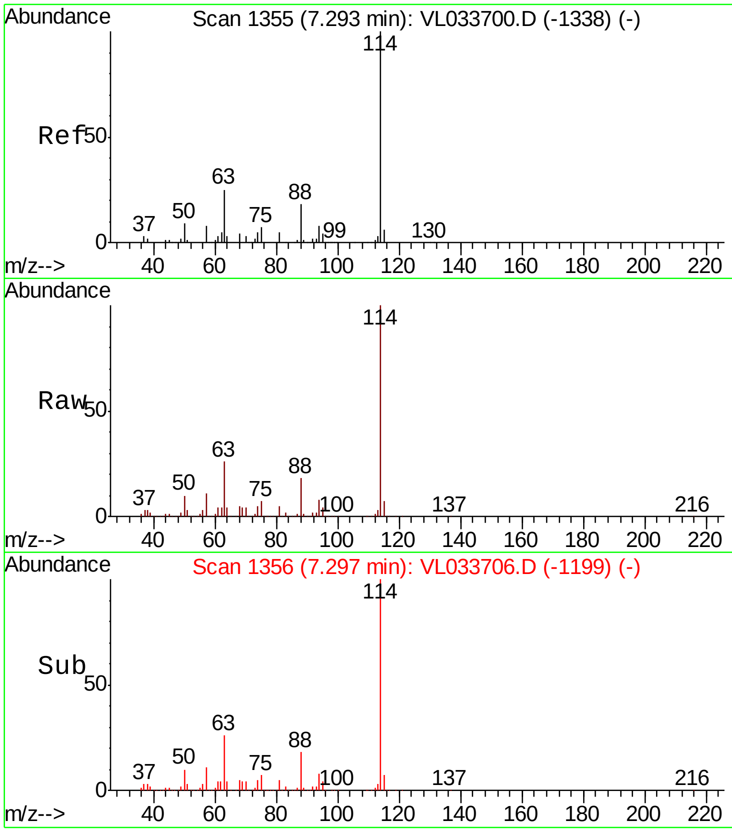


#32
1,1,1-Trichloroethane
Concen: 16.533 ppbv
RT: 6.62 min   Scan# 1146
Delta R.T.   0.01 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Tgt Ion: 97 Resp: 2900501

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.5	77.3
61	47.9	37.8	56.8



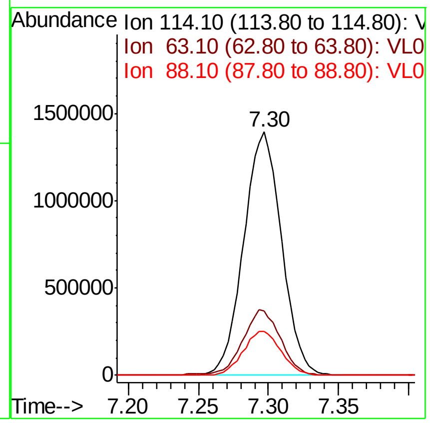


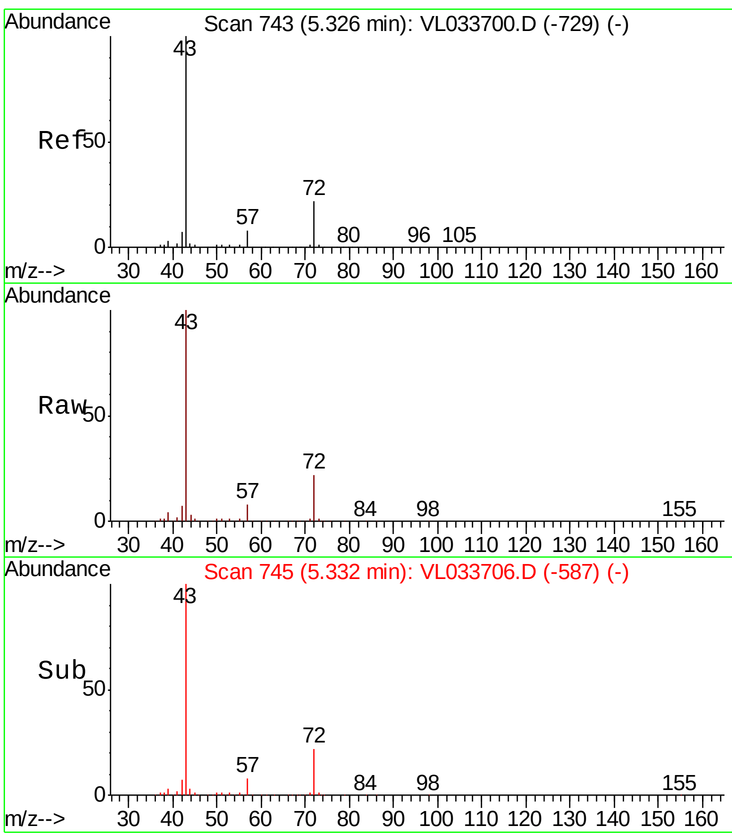
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T.   0.00 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:114 Resp: 2627268

Ion	Ratio	Lower	Upper
114	100		
63	27.2	20.9	31.3
88	18.1	14.3	21.5

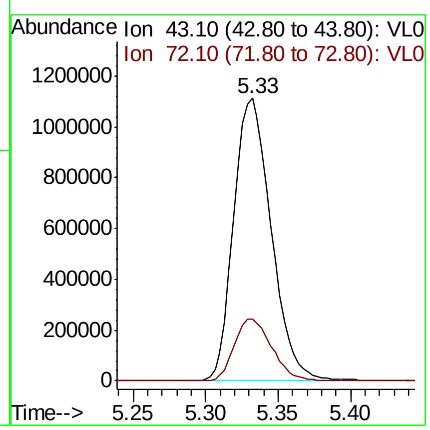


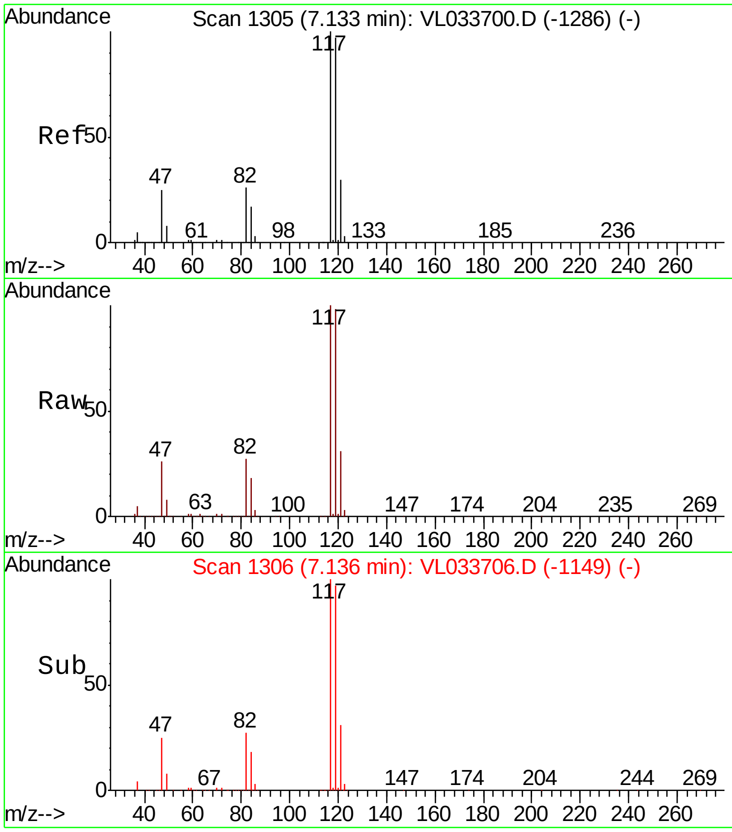


#34
2-Butanone
Concen: 11.884 ppbv
RT: 5.33 min Scan# 745
Delta R.T.   0.01 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Tgt Ion: 43 Resp: 2003366

Ion	Ratio	Lower	Upper
43	100		
72	22.1	17.8	26.6



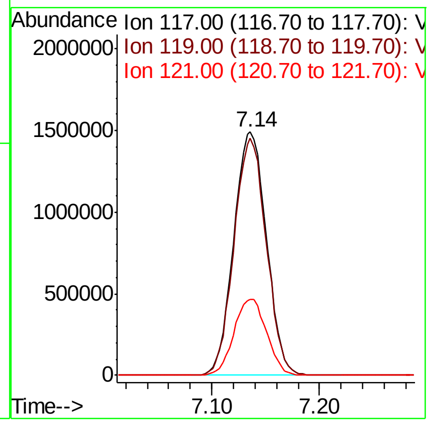


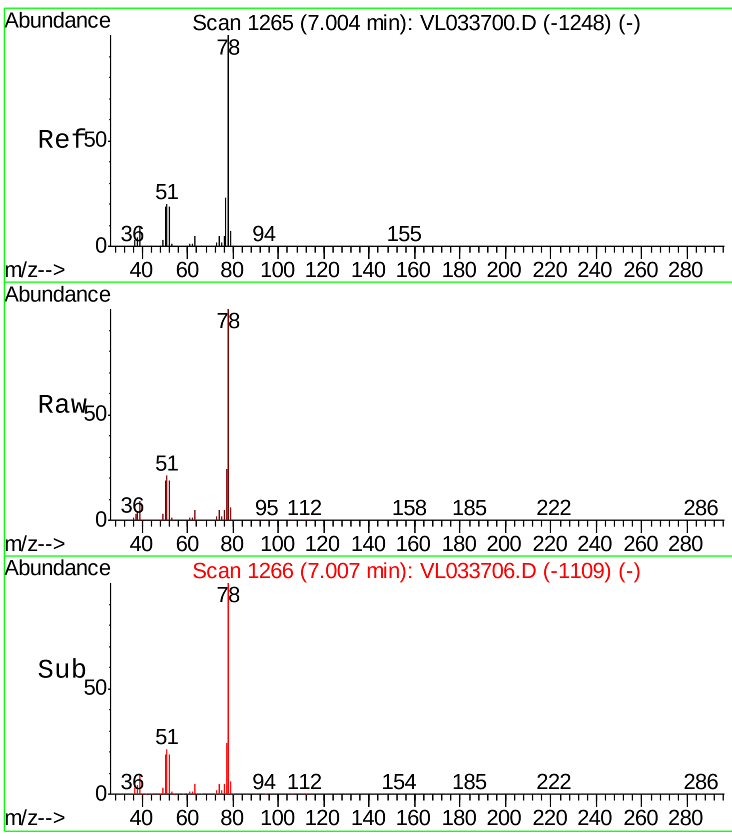
#35
Carbon Tetrachloride
Concen: 14.532 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument : MSVOA_L
ClientSampleId : VSTDICC015

Tgt Ion:117 Resp: 3141673

Ion	Ratio	Lower	Upper
117	100		
119	97.5	77.2	115.8
121	31.2	24.1	36.1

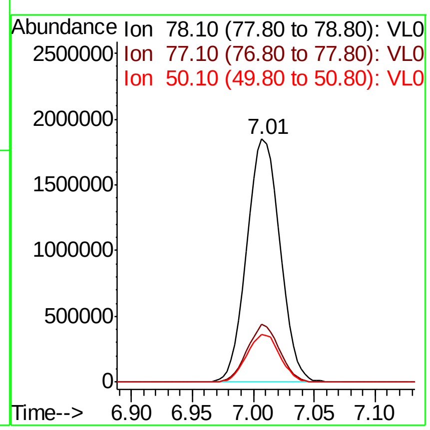


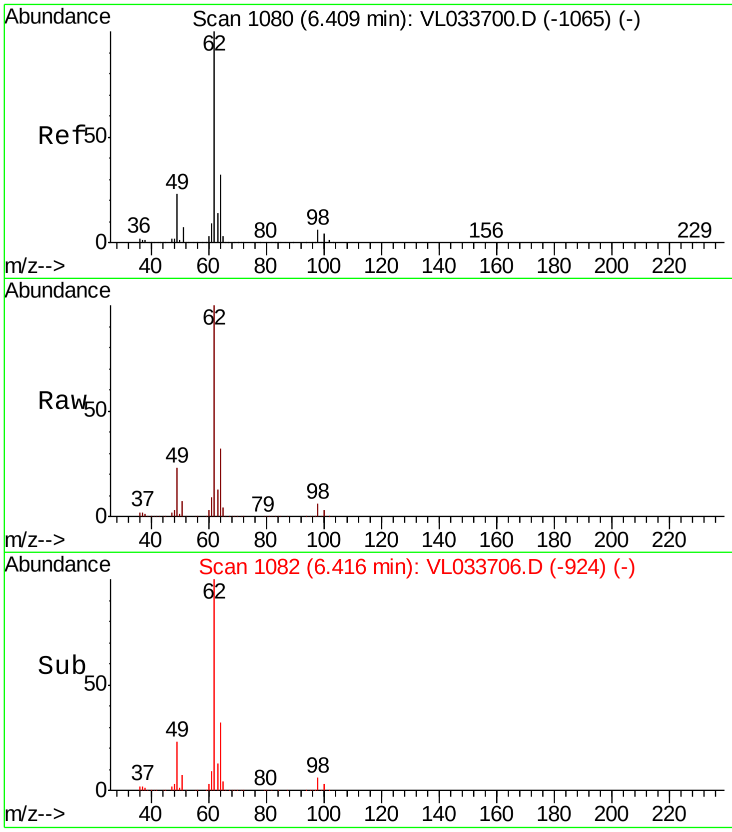


#36
Benzene
Concen: 14.685 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 78 Resp: 3485976

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.4	27.6
50	19.5	15.5	23.3



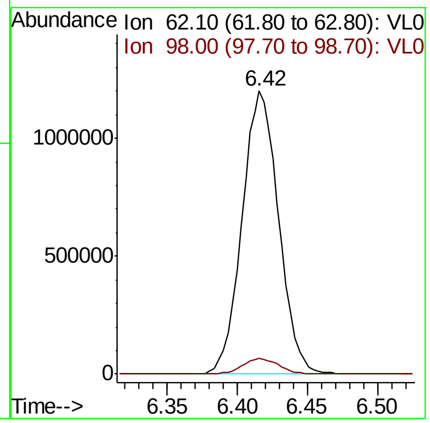


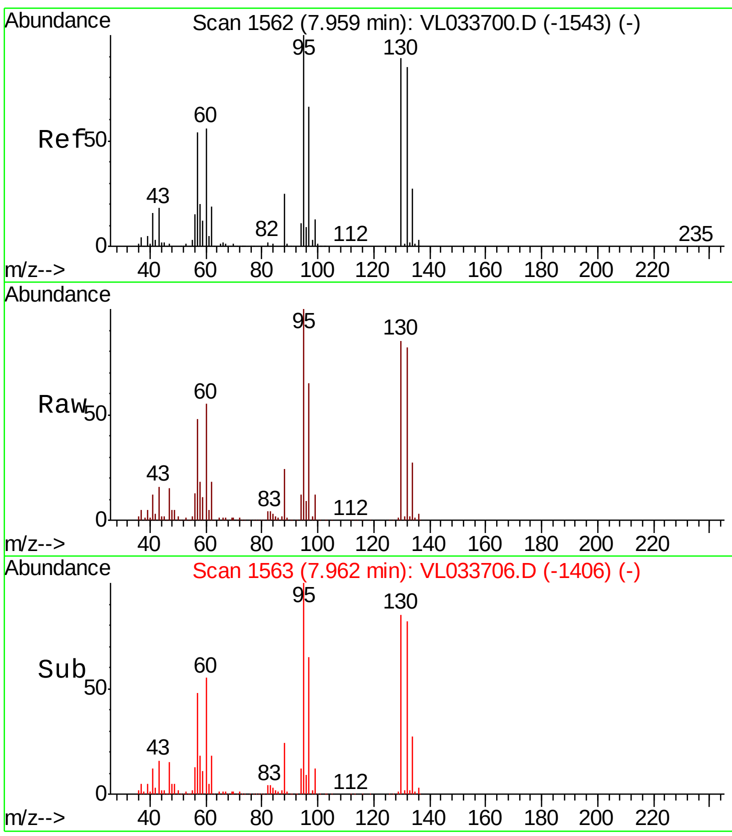
#37
1,2-Dichloroethane
Concen: 13.174 ppbv
RT: 6.42 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument : MSVOA_L
ClientSampleId : VSTDICC015

Tgt Ion: 62 Resp: 2180055

Ion	Ratio	Lower	Upper
62	100		
98	5.6	4.5	6.7

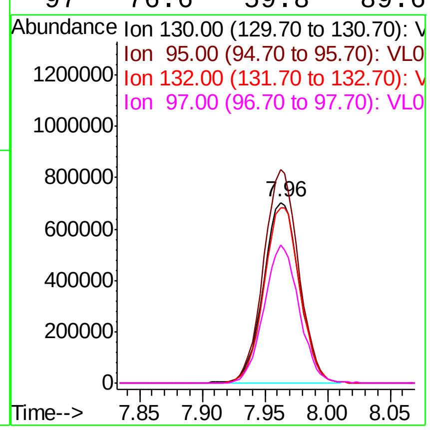




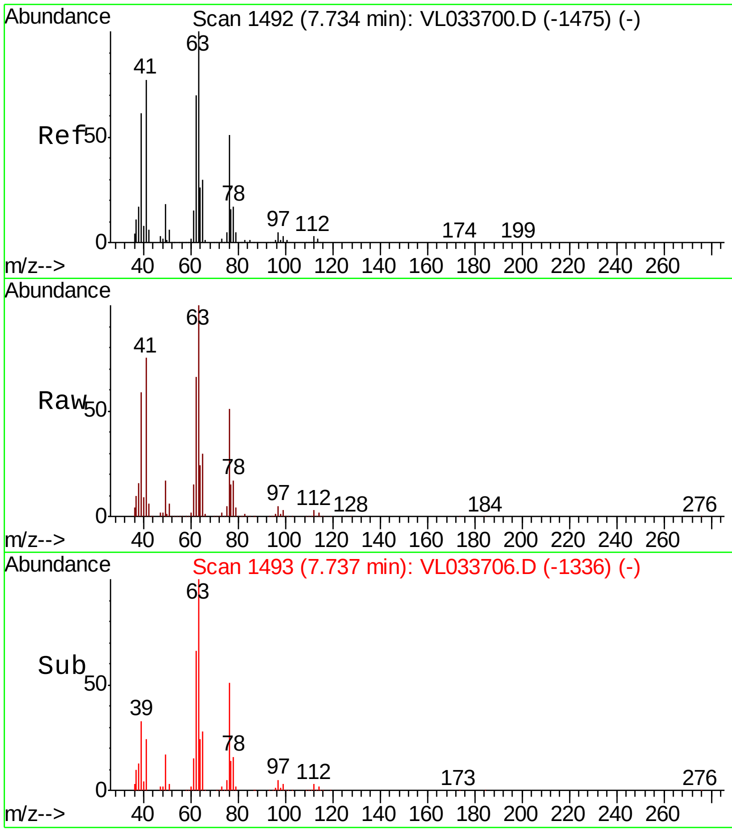
#38
Trichloroethene
Concen: 16.195 ppbv
RT: 7.96 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion:130 Resp: 1402689

Ion	Ratio	Lower	Upper
130	100		
95	118.0	90.2	135.4
132	97.1	76.4	114.6
97	76.6	59.8	89.6



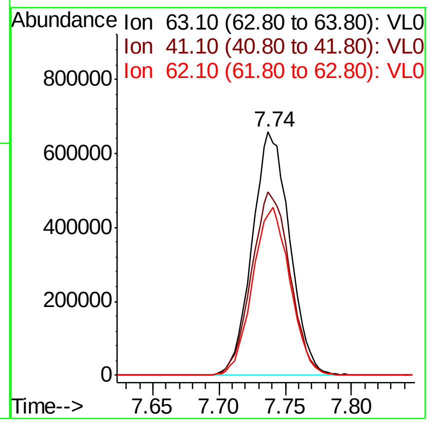
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

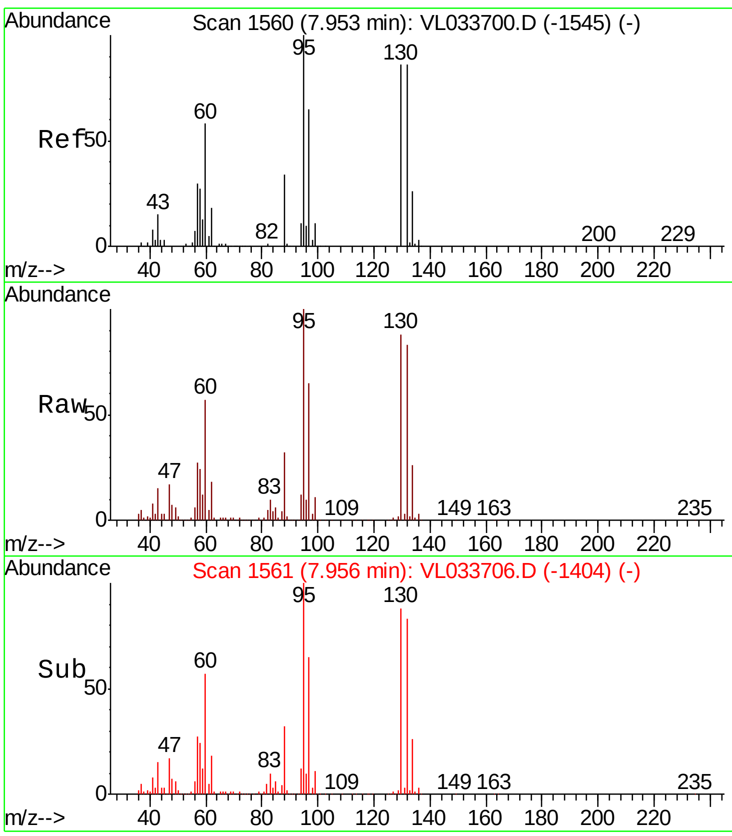


#39
1,2-Dichloropropane
Concen: 14.702 ppbv
RT: 7.74 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 63 Resp: 1300829

Ion	Ratio	Lower	Upper
63	100		
41	75.3	61.5	92.3
62	65.7	56.2	84.4

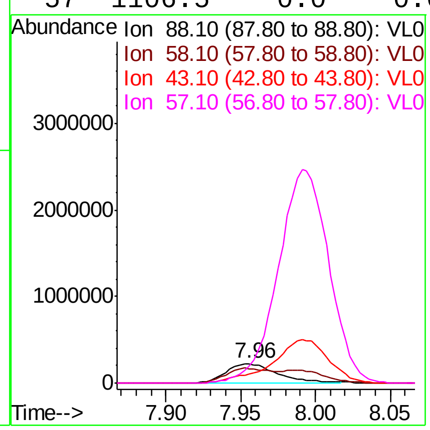


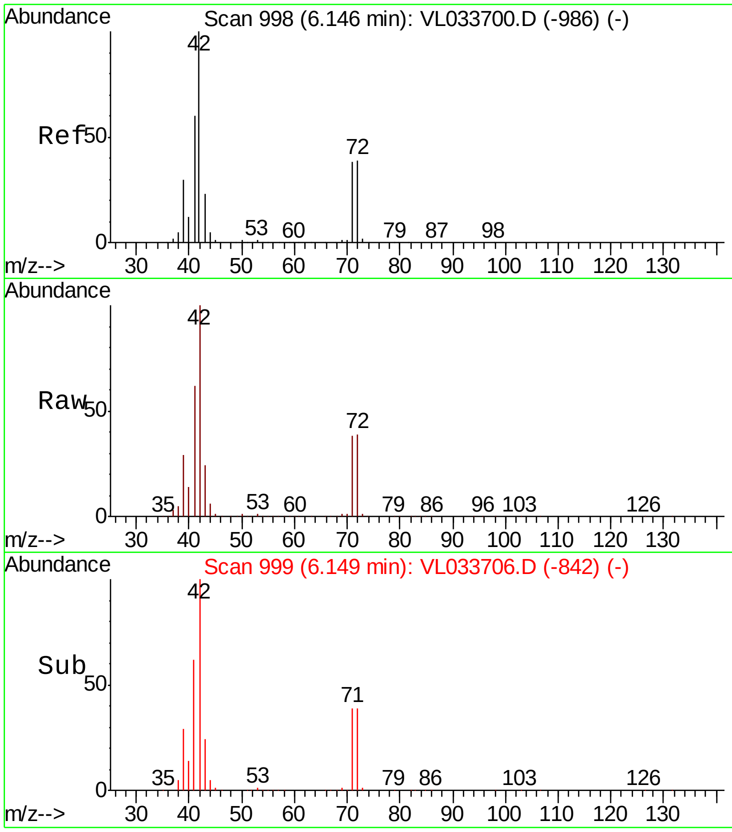


#40
1,4-Dioxane
Concen: 14.672 ppbv
RT: 7.96 min Scan# 1561
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 88 Resp: 525288

Ion	Ratio	Lower	Upper
88	100		
58	125.6	101.8	152.6
43	249.0	0.0	0.0#
57	1106.5	0.0	0.0#



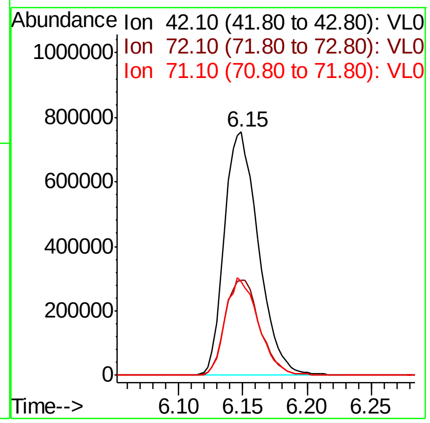


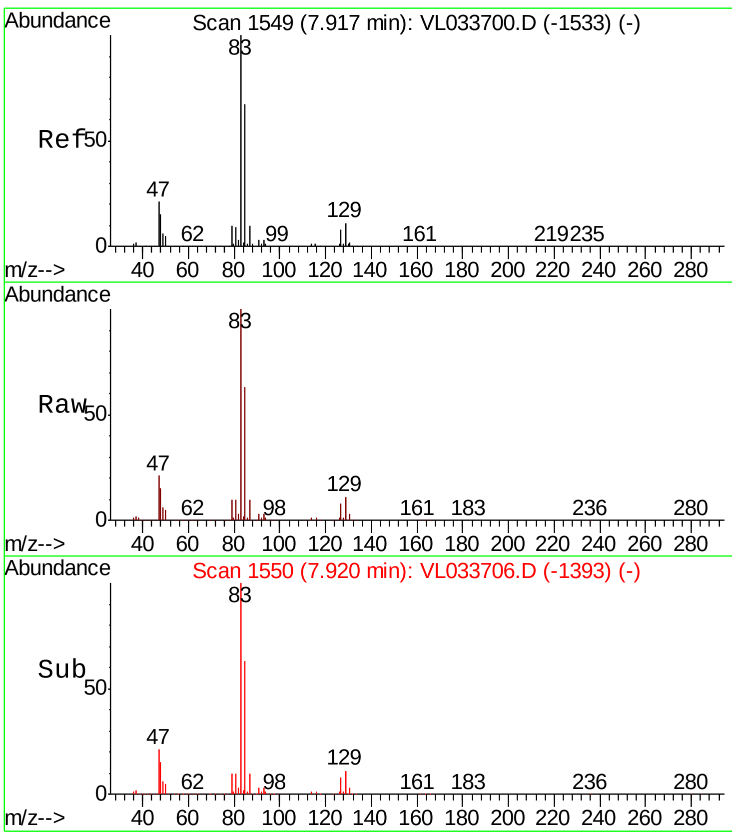
#41
Tetrahydrofuran
Concen: 15.836 ppbv
RT: 6.15 min Scan# 999
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 42 Resp: 1397221

Ion	Ratio	Lower	Upper
42	100		
72	39.8	32.0	48.0
71	38.7	30.4	45.6

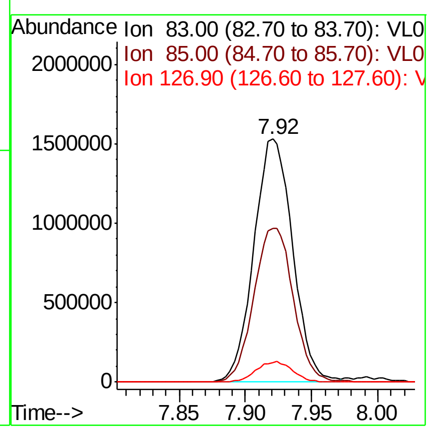


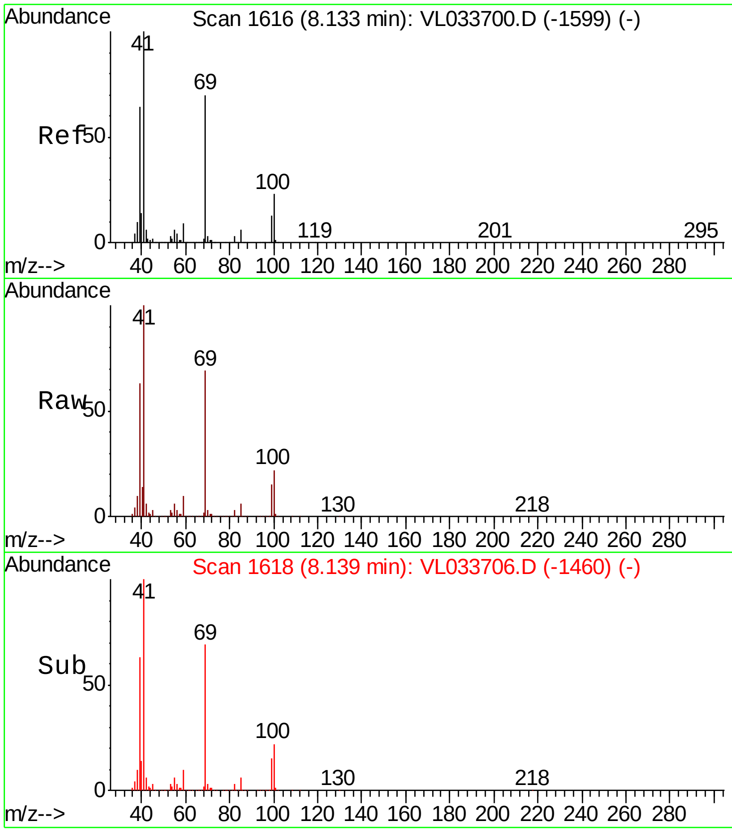


#42
Bromodichloromethane
Concen: 14.743 ppbv
RT: 7.92 min Scan# 1550
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 83 Resp: 3135468

Ion	Ratio	Lower	Upper
83	100		
85	63.4	53.3	79.9
127	8.1	6.5	9.7



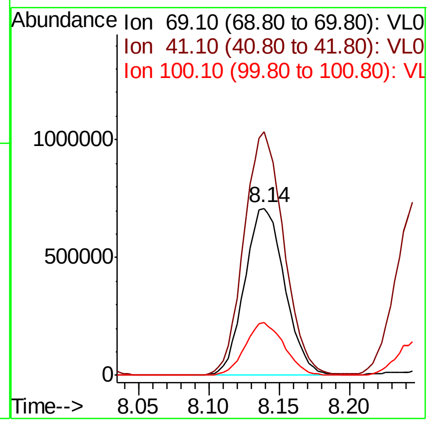


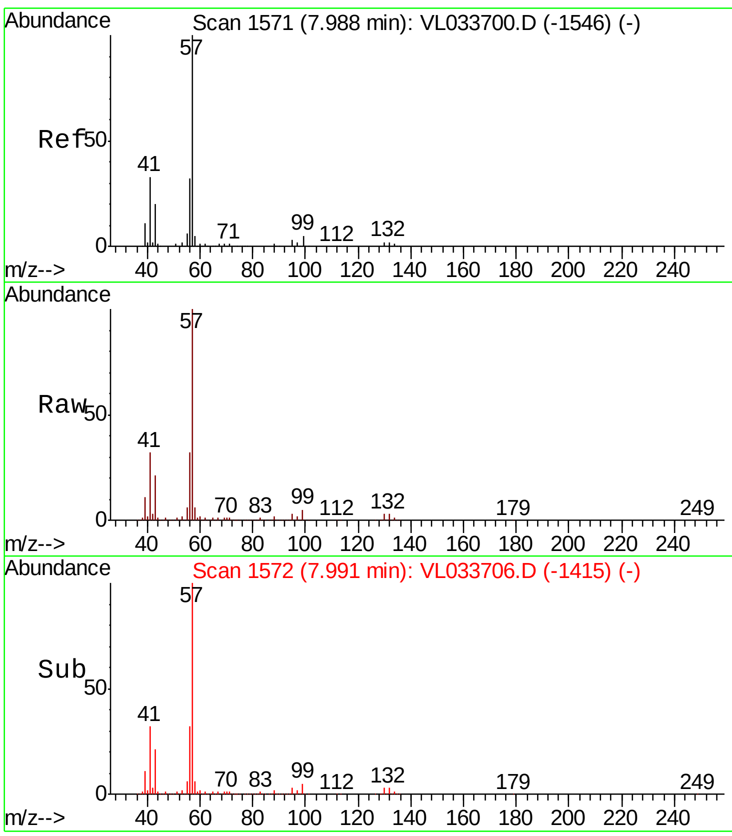
#43
Methyl Methacrylate
Concen: 15.903 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 69 Resp: 1416704

Ion	Ratio	Lower	Upper
69	100		
41	144.9	116.3	174.5
100	31.0	25.3	37.9

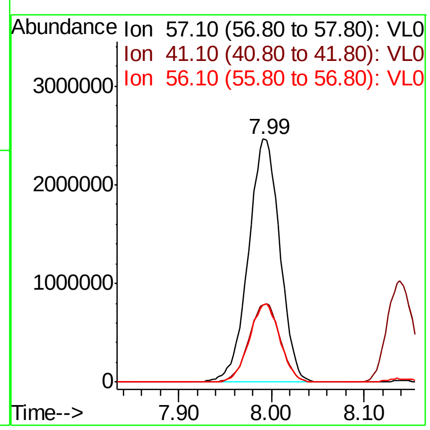


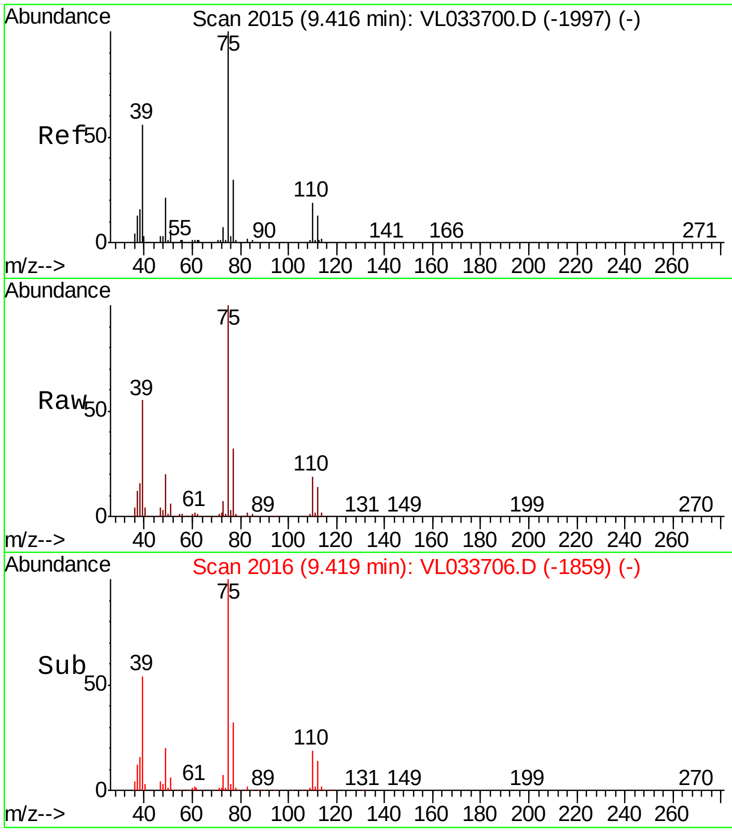


#44
2,2,4-Trimethylpentane
Concen: 14.339 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 57 Resp: 5811171

Ion	Ratio	Lower	Upper
57	100		
41	32.1	25.4	38.0
56	31.3	24.7	37.1



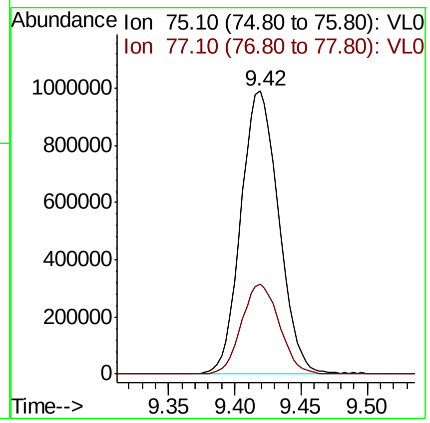


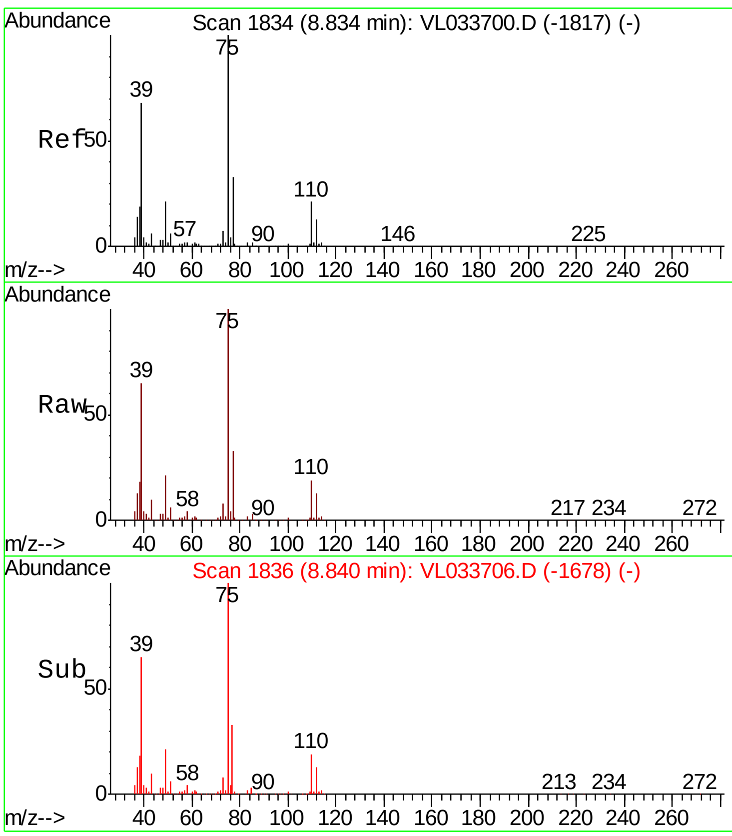
#45
t-1,3-Dichloropropene
Concen: 17.938 ppbv
RT: 9.42 min Scan# 2016
Delta R.T.   0.00 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 75 Resp: 1973982

Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.4	36.6

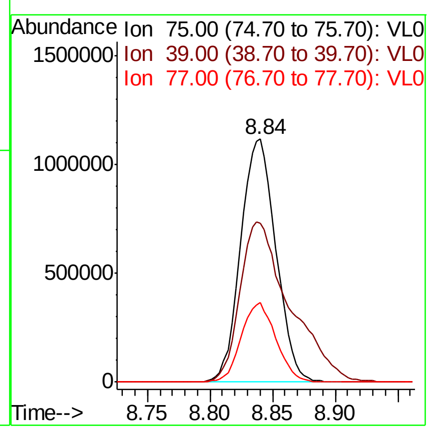


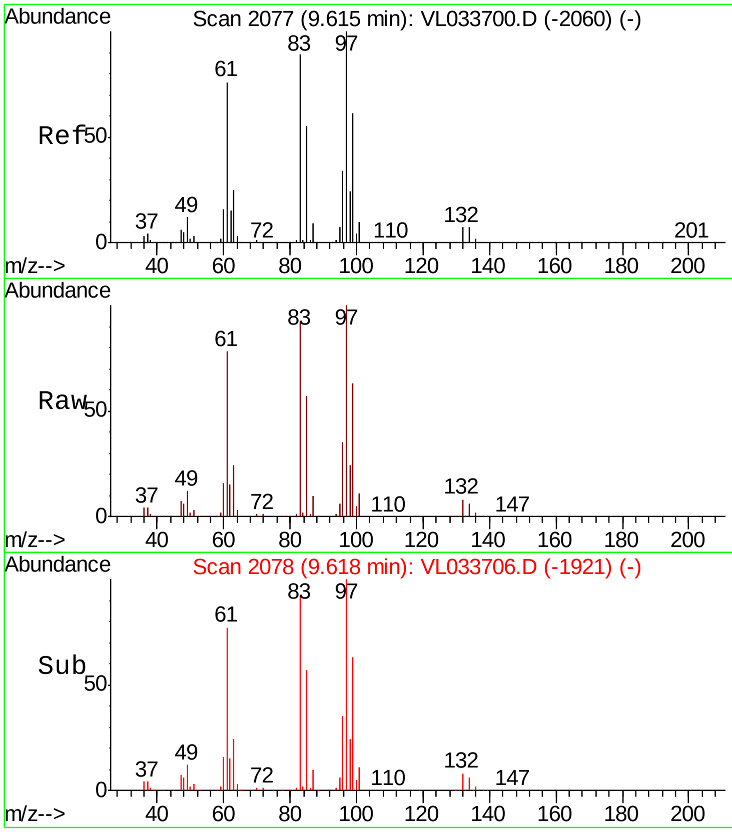


#46
cis-1,3-Dichloropropene
Concen: 16.017 ppbv
RT: 8.84 min Scan# 1836
Delta R.T.   0.01 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Tgt Ion: 75 Resp: 2190967

Ion	Ratio	Lower	Upper
75	100		
39	65.3	54.4	81.6
77	32.7	26.6	39.8



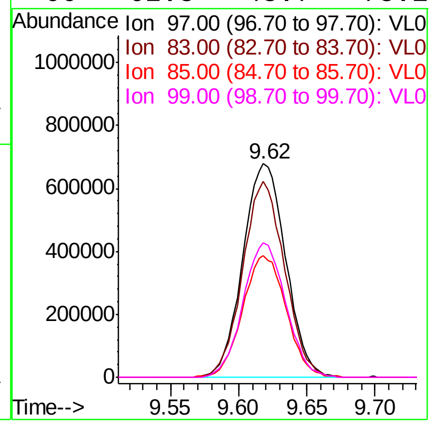


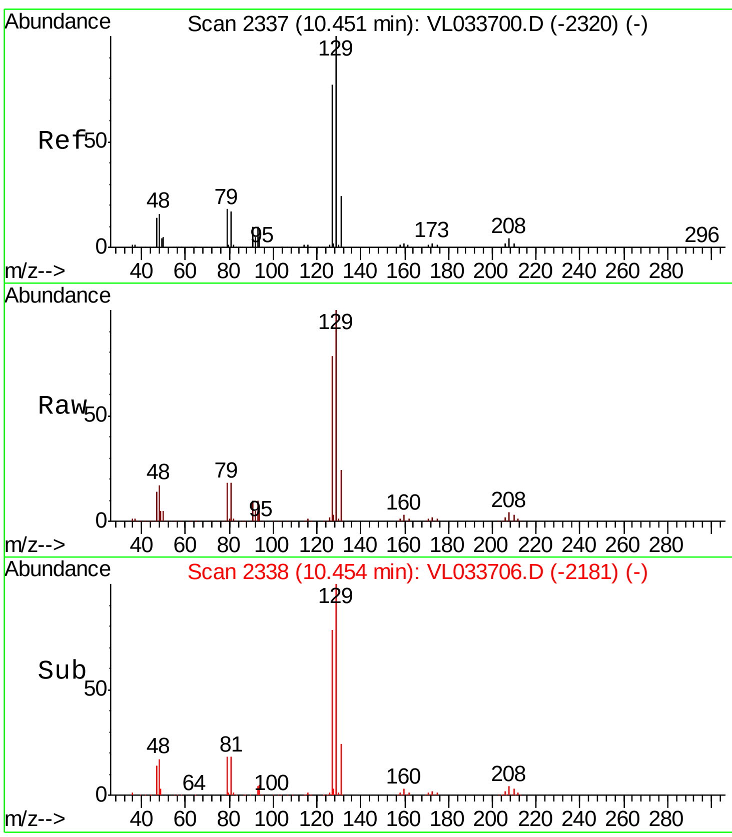
#47
1,1,2-Trichloroethane
Concen: 14.613 ppbv
RT: 9.62 min Scan# 2078
Delta R.T.   0.00 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 97 Resp: 1484785

Ion	Ratio	Lower	Upper
97	100		
83	91.7	70.8	106.2
85	56.9	43.7	65.5
99	62.8	48.7	73.1

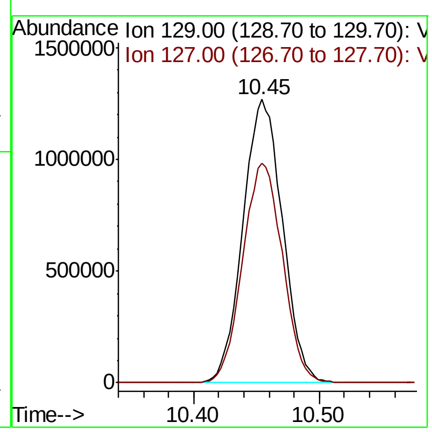


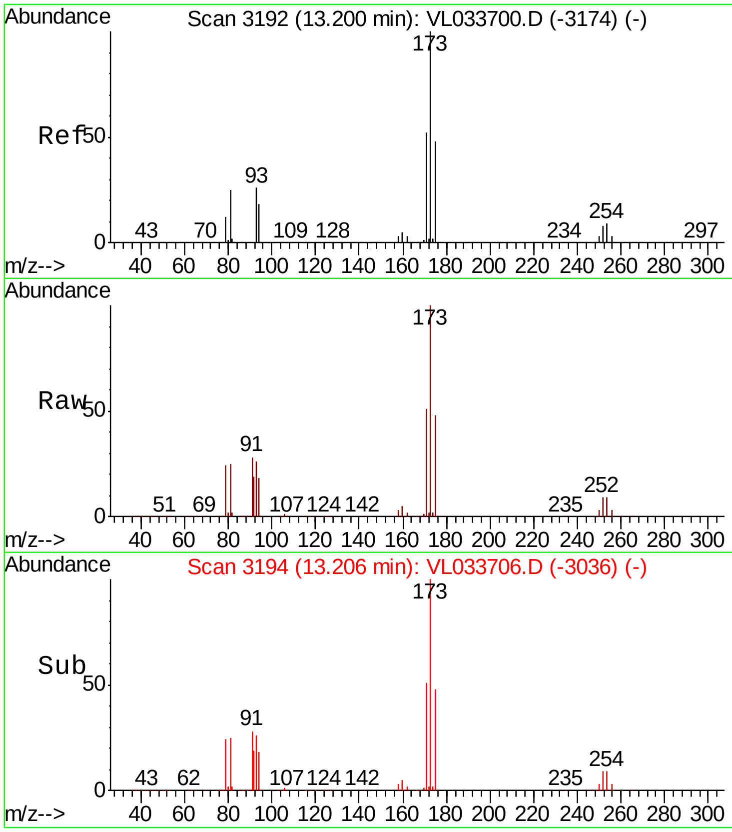


#48
Dibromochloromethane
Concen: 16.094 ppbv
RT: 10.45 min Scan# 2338
Delta R.T.   0.00 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Tgt Ion:129 Resp: 2779248

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.6	116.0



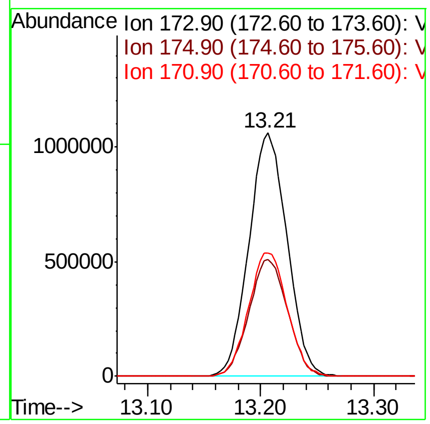


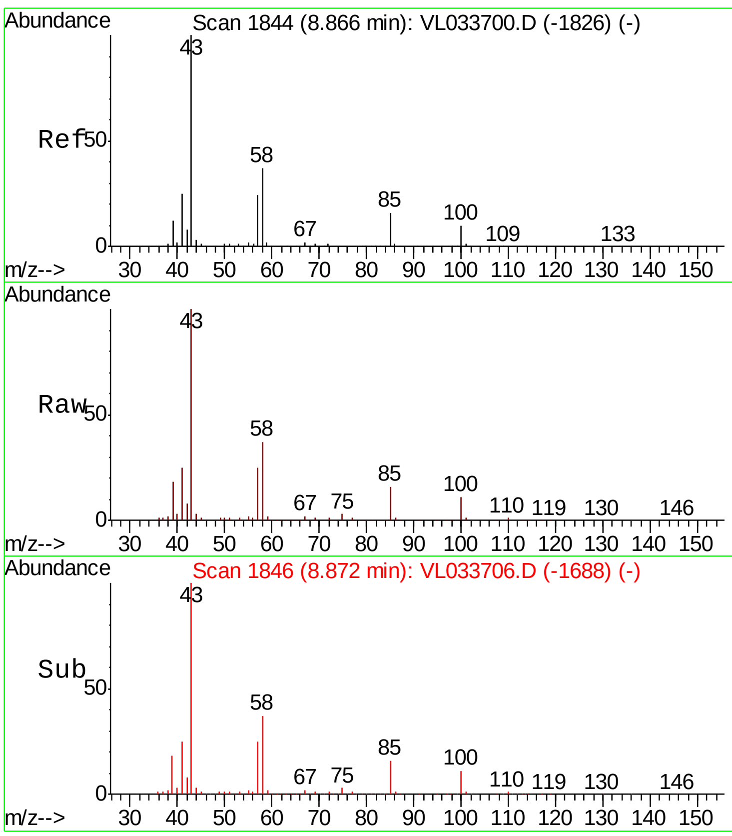
#49
Bromoform
Concen: 16.889 ppbv
RT: 13.21 min Scan# 3194
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:173 Resp: 2494987

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.6	58.0
171	51.8	41.5	62.3

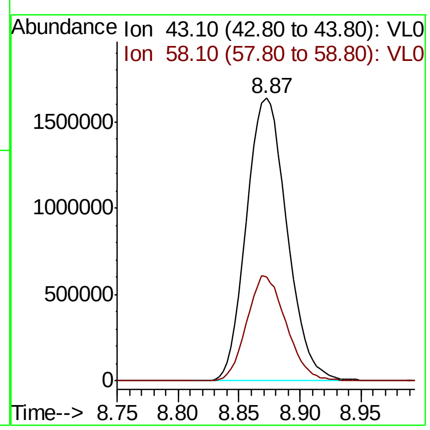


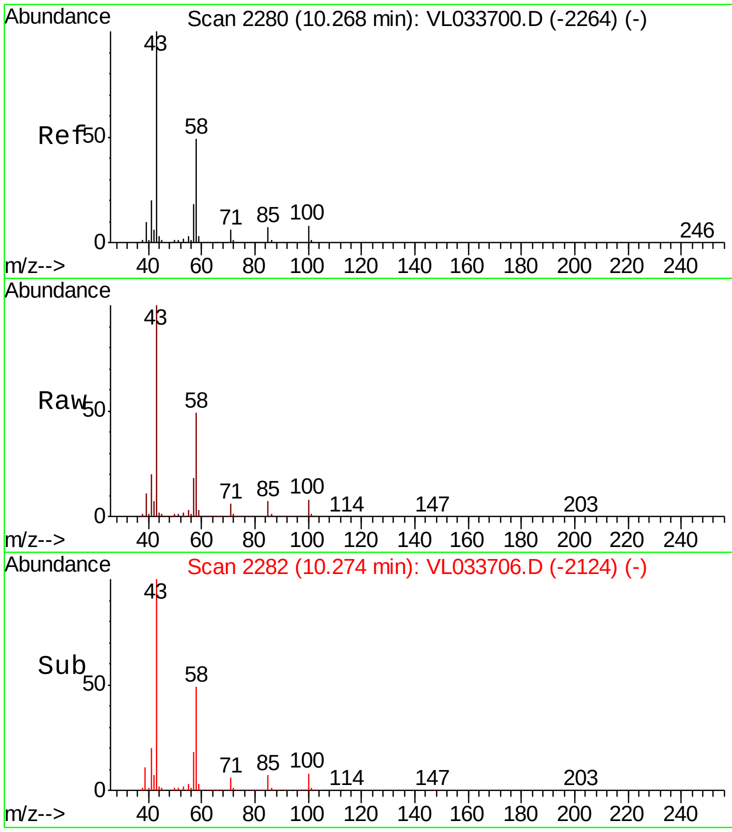


#50
4-Methyl-2-Pentanone
Concen: 14.802 ppbv
RT: 8.87 min Scan# 1846
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 43 Resp: 3783217

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.6	43.0



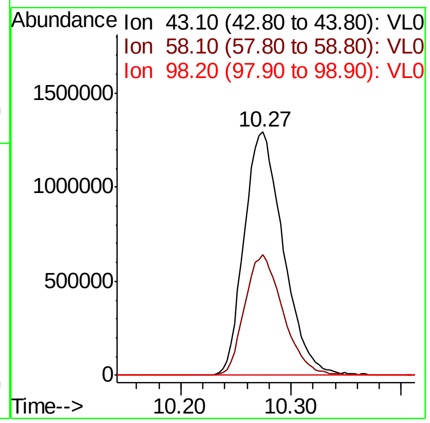


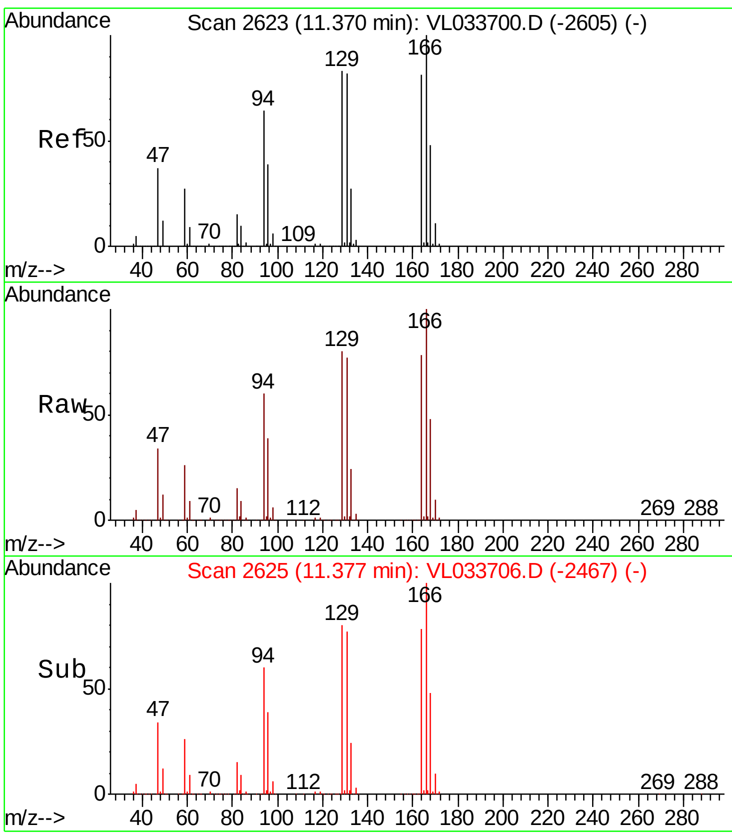
#51
2-Hexanone
Concen: 16.005 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument : MSVOA_L
ClientSampleId : VSTDICC015

Tgt Ion: 43 Resp: 3185024

Ion	Ratio	Lower	Upper
43	100		
58	48.7	38.7	58.1
98	0.2	0.2	0.4#

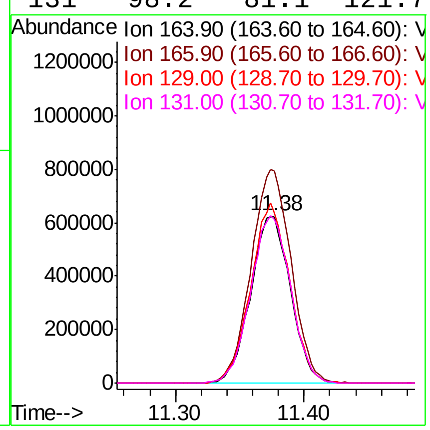


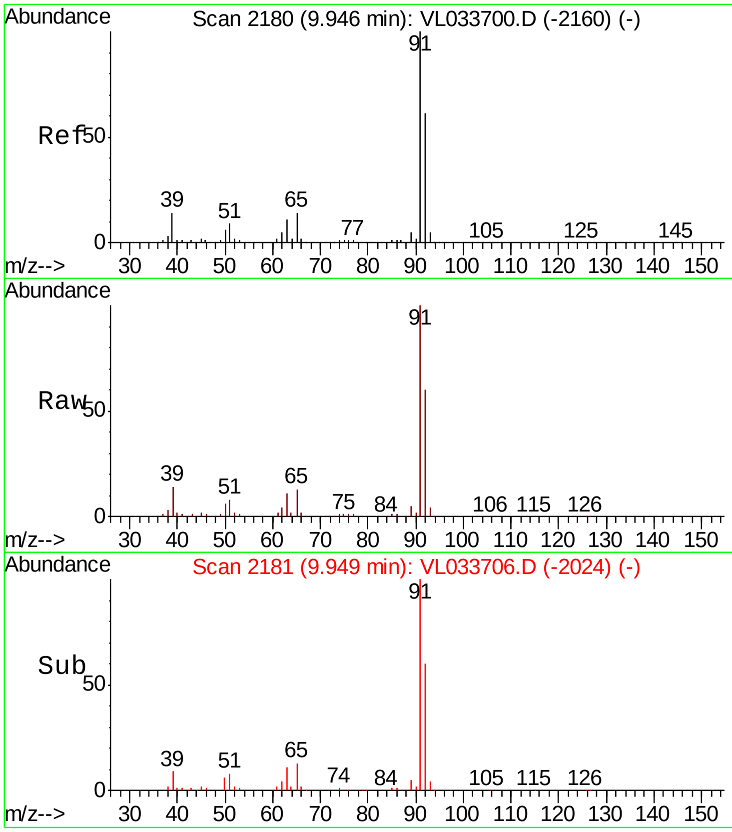


#52
Tetrachloroethene
Concen: 15.918 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion:164 Resp: 1340273

Ion	Ratio	Lower	Upper
164	100		
166	127.5	98.9	148.3
129	102.2	81.8	122.6
131	98.2	81.1	121.7



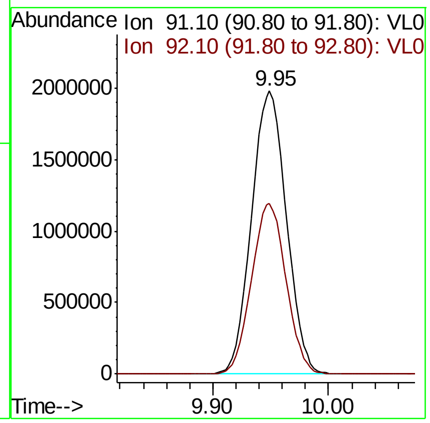


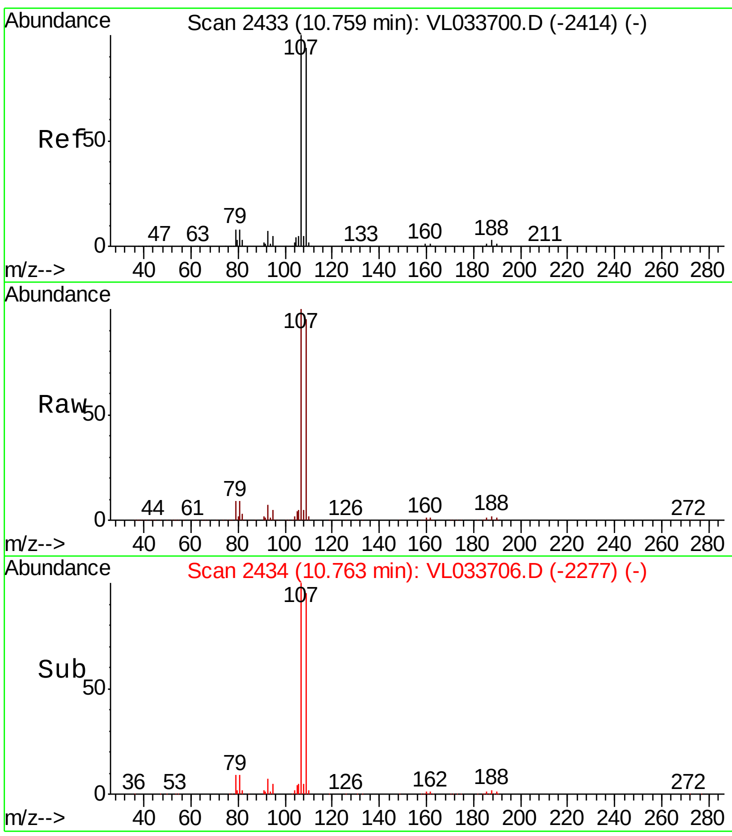
#53
Toluene
Concen: 16.149 ppbv
RT: 9.95 min Scan# 2181
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 4154497

Ion	Ratio	Lower	Upper
91	100		
92	59.8	47.6	71.4

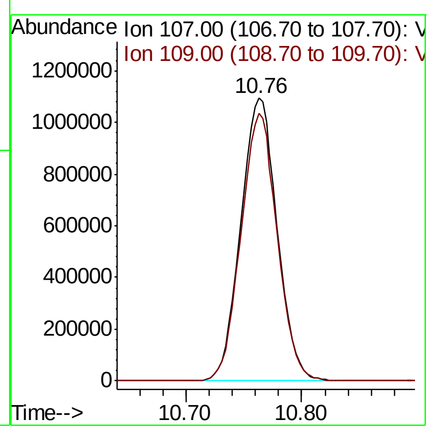


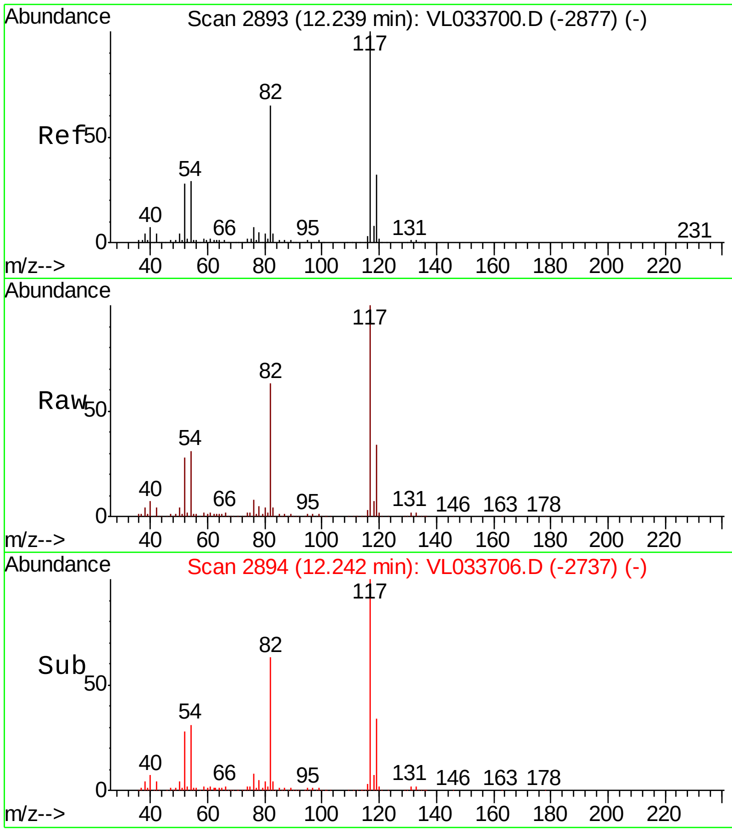


#54
1,2-Dibromoethane
Concen: 15.571 ppbv
RT: 10.76 min Scan# 2434
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion:107 Resp: 2389134

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.2	112.8



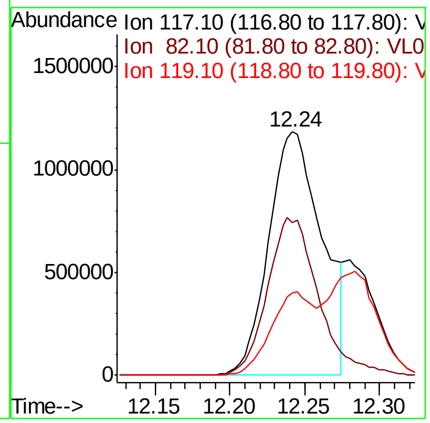


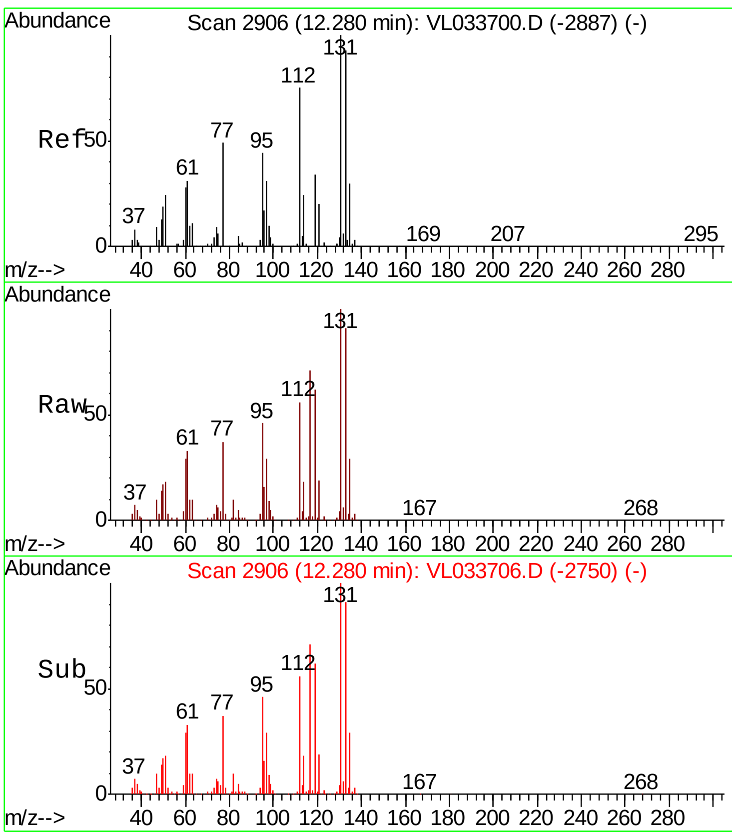
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min   Scan# 2894
Delta R.T.   0.00 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:117 Resp: 2918888

Ion	Ratio	Lower	Upper
117	100		
82	62.5	49.4	74.0
119	0.0	24.9	37.3#

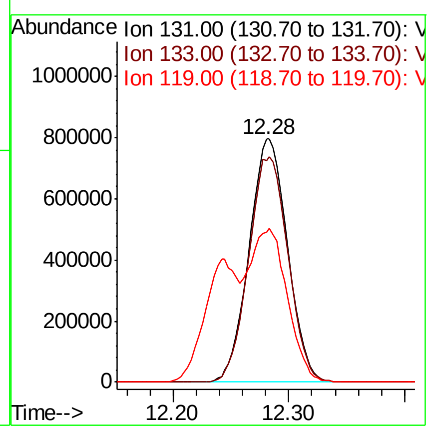


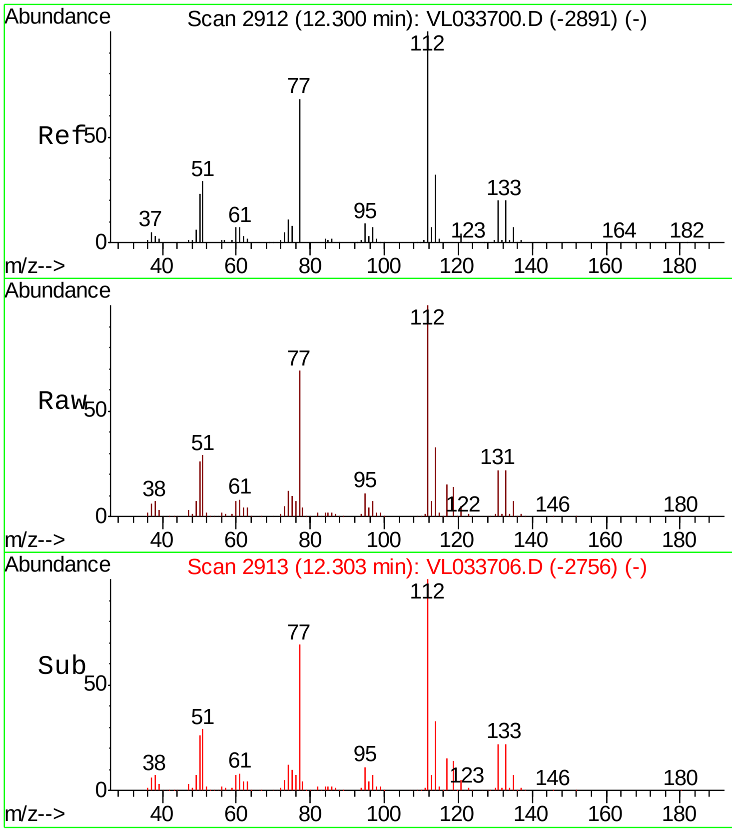


#56
1,1,1,2-Tetrachloroethane
Concen: 13.582 ppbv
RT: 12.28 min   Scan# 2906
Delta R.T.   -0.00 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Tgt Ion:131 Resp: 1843642

Ion	Ratio	Lower	Upper
131	100		
133	94.7	76.6	114.8
119	107.1	49.0	73.4#



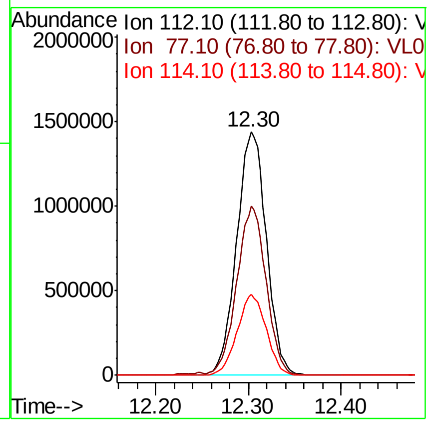


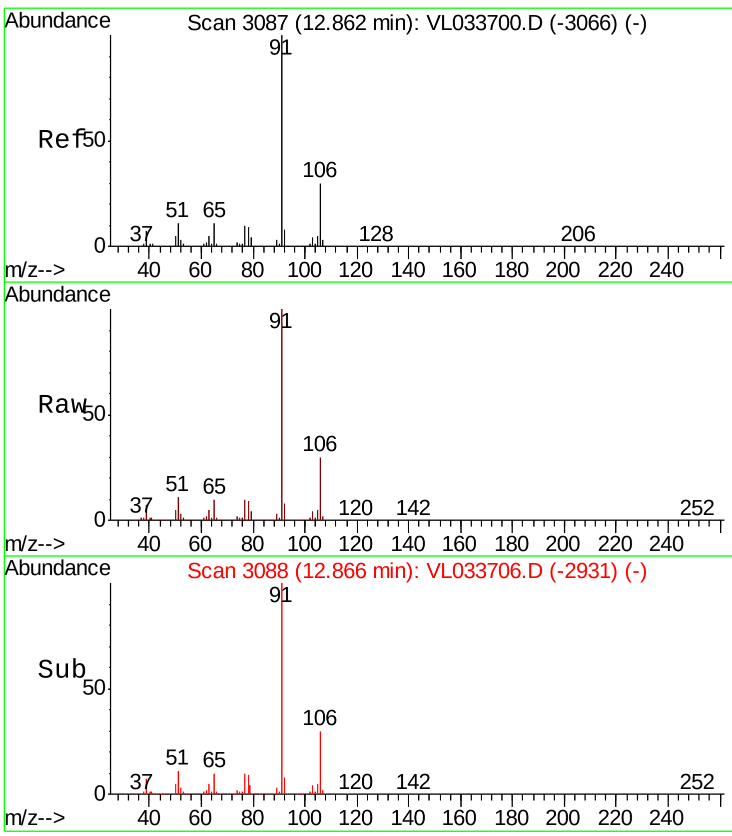
#57
Chlorobenzene
Concen: 13.235 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:112 Resp: 3202998

Ion	Ratio	Lower	Upper
112	100		
77	69.4	55.4	83.0
114	33.3	29.3	35.8

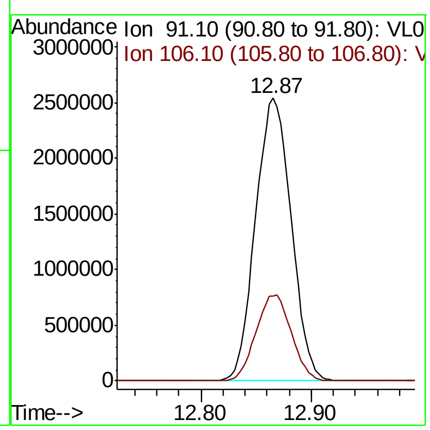


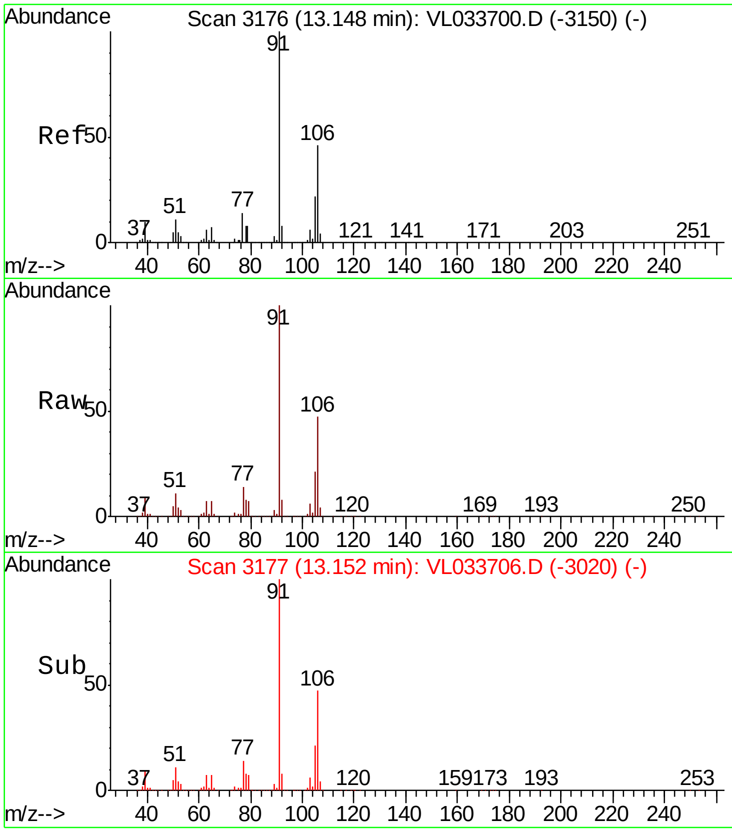


#58
Ethyl Benzene
Concen: 14.834 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 91 Resp: 5702412

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.9	35.9



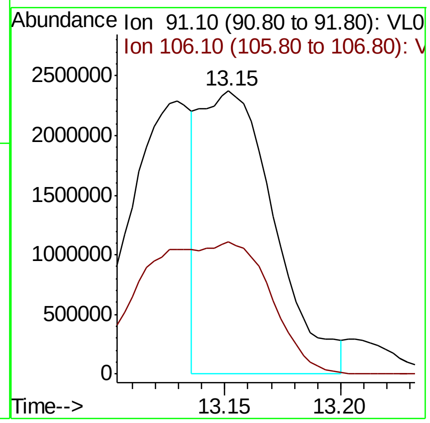


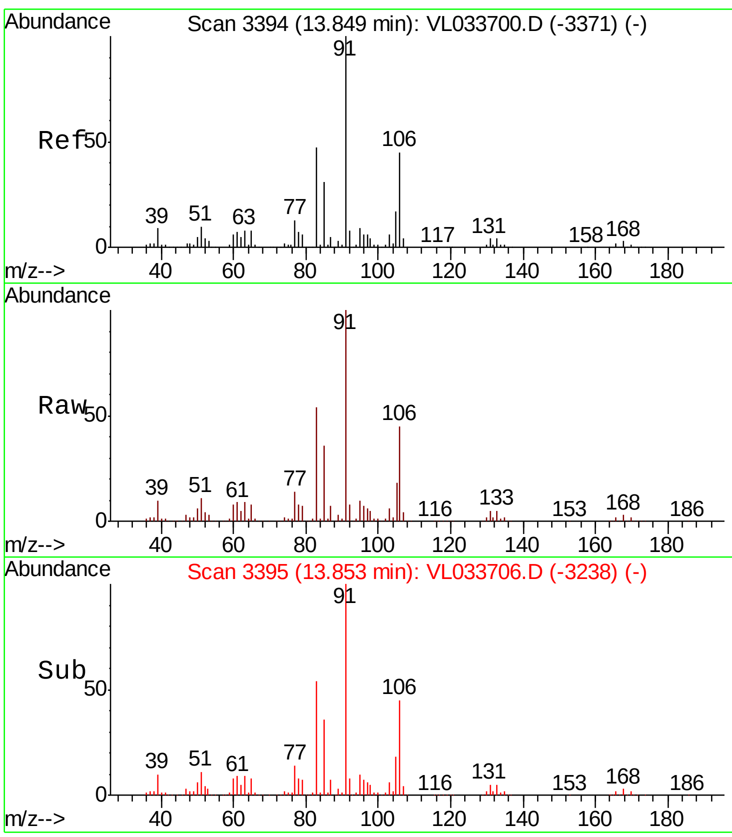
#59
m/p-Xylene
Concen: 15.593 ppbv
RT: 13.15 min Scan# 3177
Delta R.T.   0.00 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 5281325

Ion	Ratio	Lower	Upper
91	100		
106	81.9	35.8	53.6#

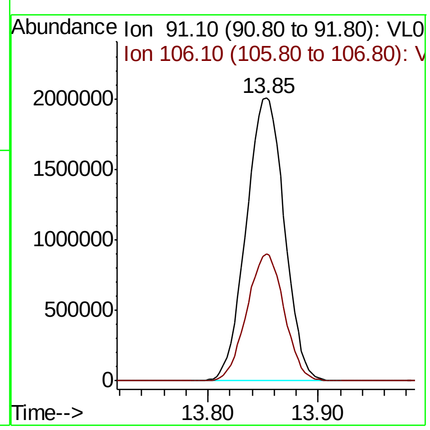


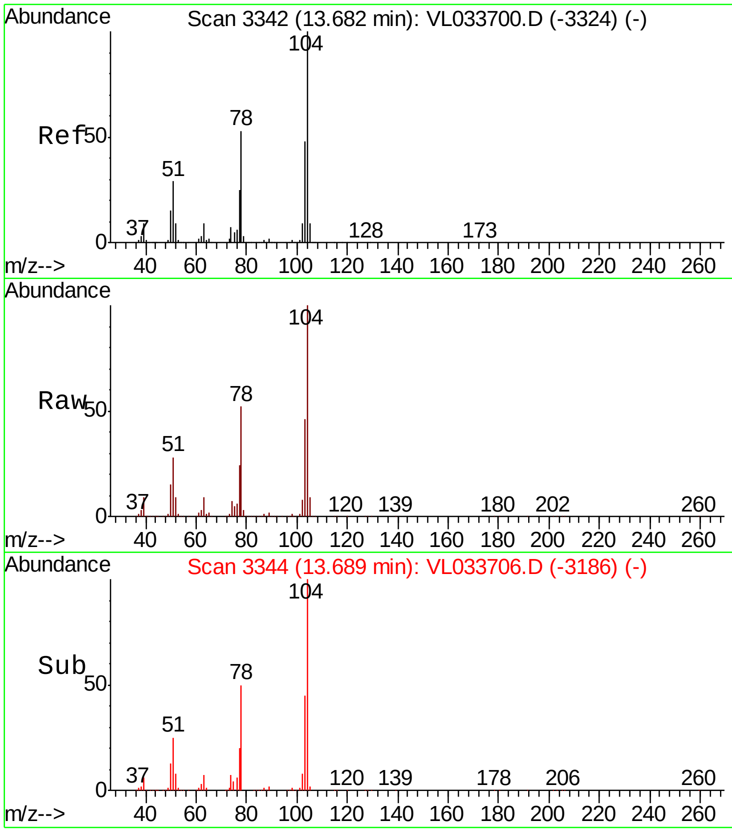


#60
o-Xylene
Concen: 14.088 ppbv
RT: 13.85 min Scan# 3395
Delta R.T.   0.00 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Tgt Ion: 91 Resp: 4815774

Ion	Ratio	Lower	Upper
91	100		
106	44.1	21.6	64.8



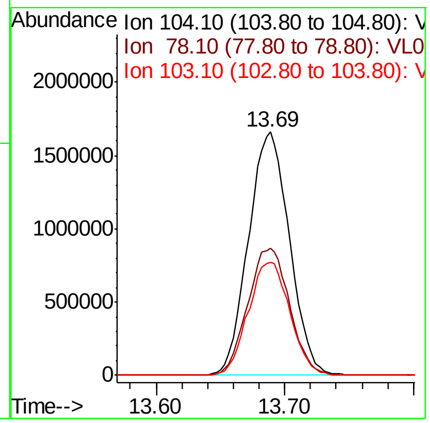


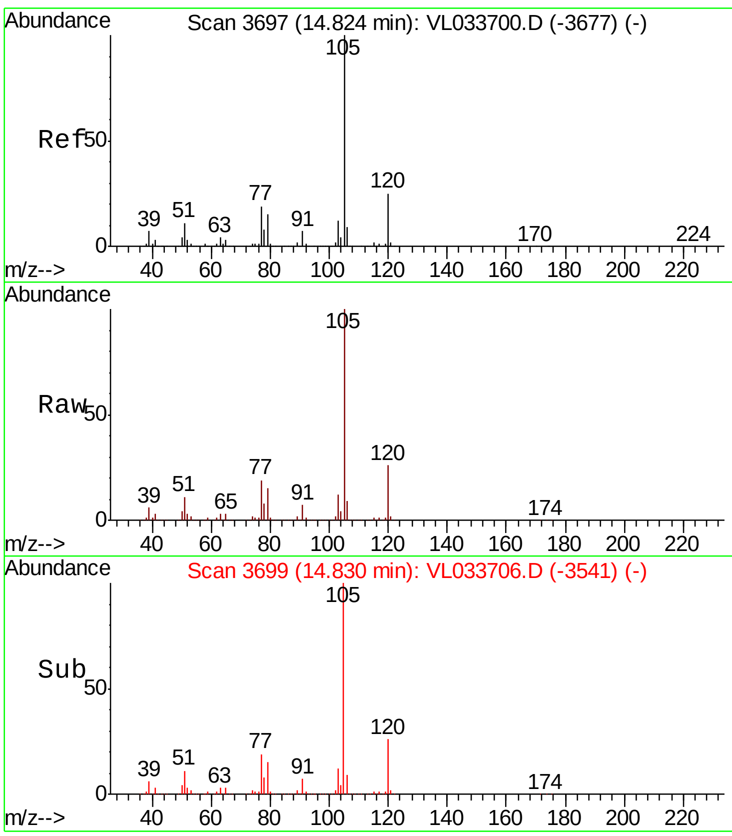
#61
Styrene
Concen: 16.172 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument : MSVOA_L
ClientSampleId : VSTDICC015

Tgt Ion:104 Resp: 3690204

Ion	Ratio	Lower	Upper
104	100		
78	53.3	42.6	64.0
103	47.2	37.8	56.6

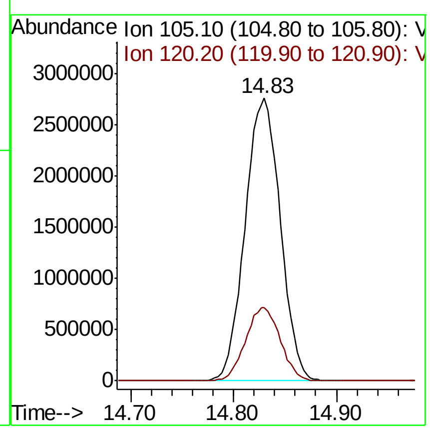


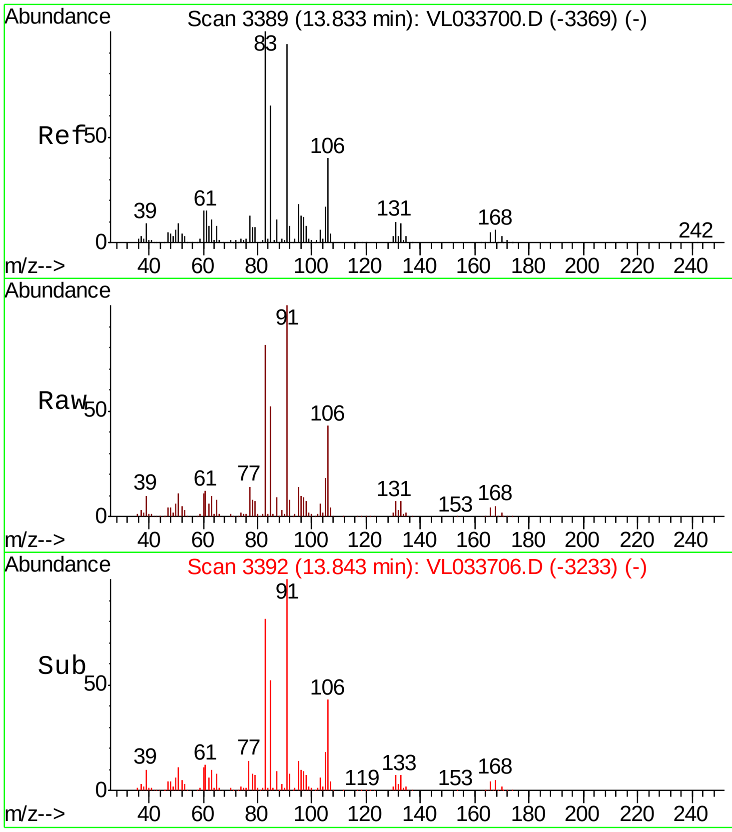


#62
Isopropylbenzene
Concen: 14.028 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion:105 Resp: 6560304

Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.1	30.1



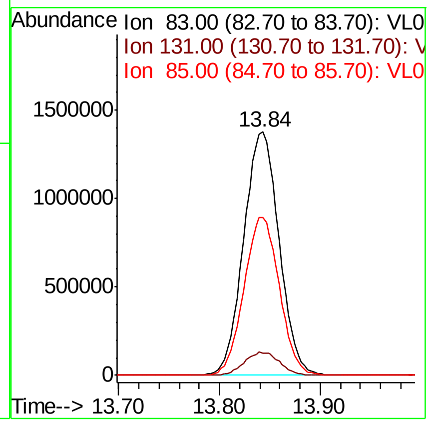


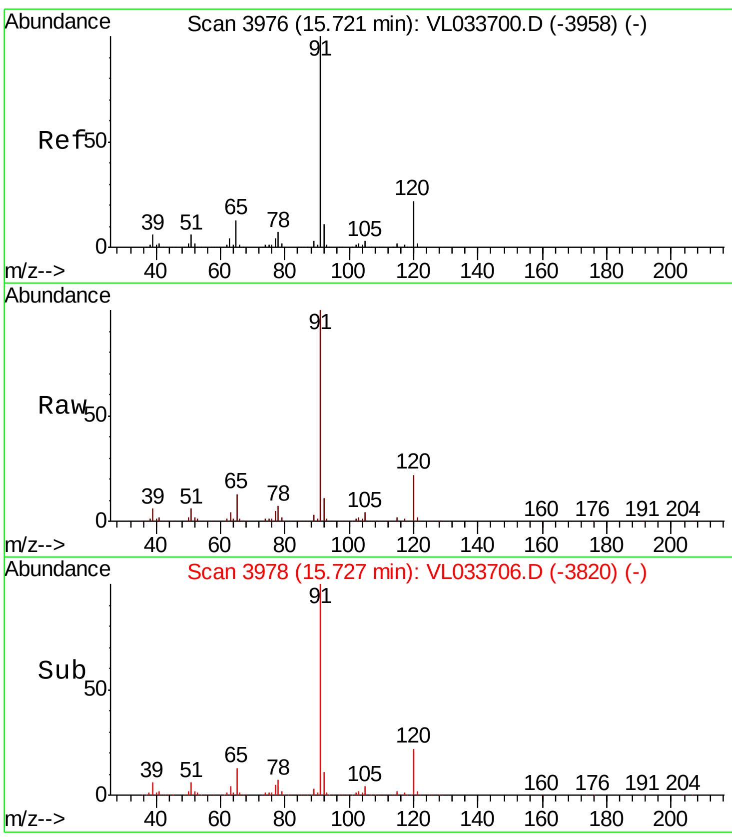
#63
1,1,2,2-Tetrachloroethane
Concen: 13.535 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 83 Resp: 3356400

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	65.0	32.3	96.9

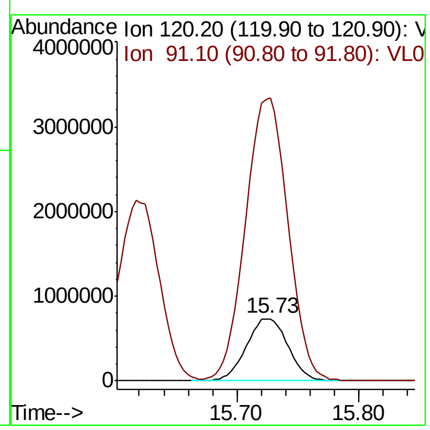


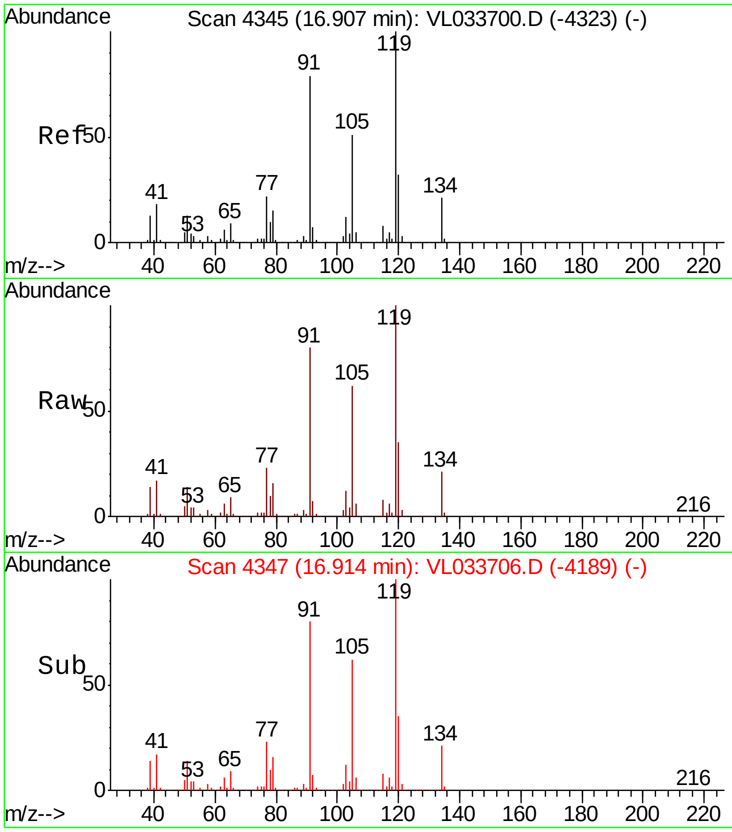


#64
n-propylbenzene
Concen: 14.425 ppbv
RT: 15.73 min Scan# 3978
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion:120 Resp: 1739977

Ion	Ratio	Lower	Upper
120	100		
91	464.1	379.1	568.7



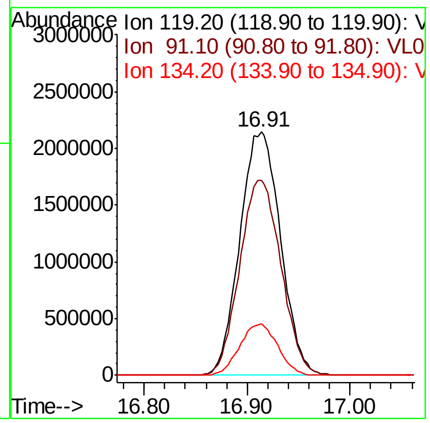


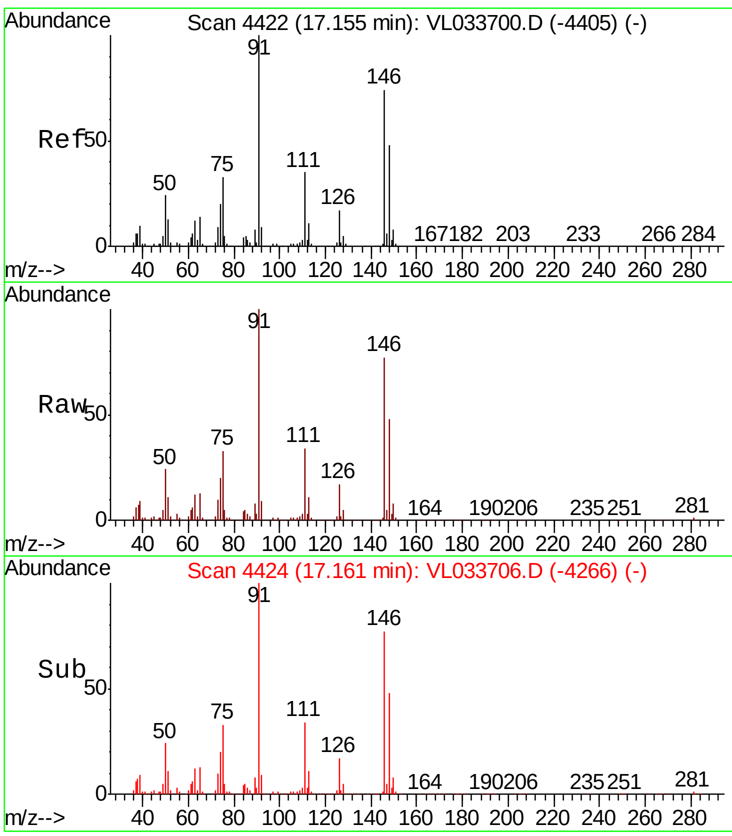
#65
tert-Butylbenzene
Concen: 13.769 ppbv
RT: 16.91 min Scan# 4347
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 5904865

Ion	Ratio	Lower	Upper
119	100		
91	81.5	65.3	97.9
134	19.8	15.7	23.5

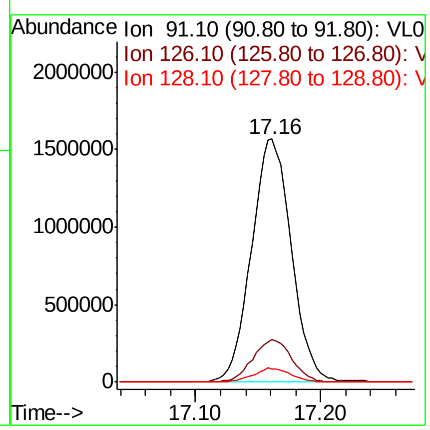


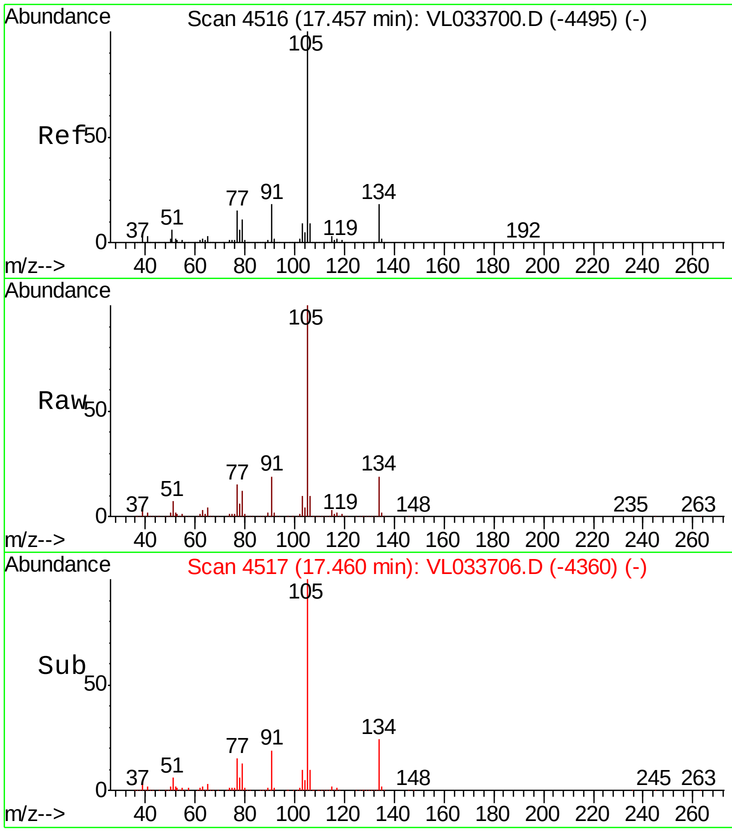


#66
Benzyl Chloride
Concen: 17.638 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 91 Resp: 3462694

Ion	Ratio	Lower	Upper
91	100		
126	17.4	13.5	20.3
128	5.5	4.3	6.5



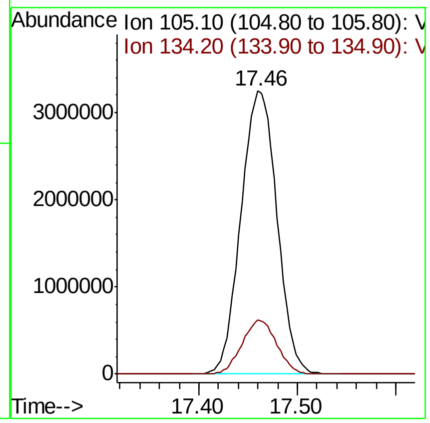


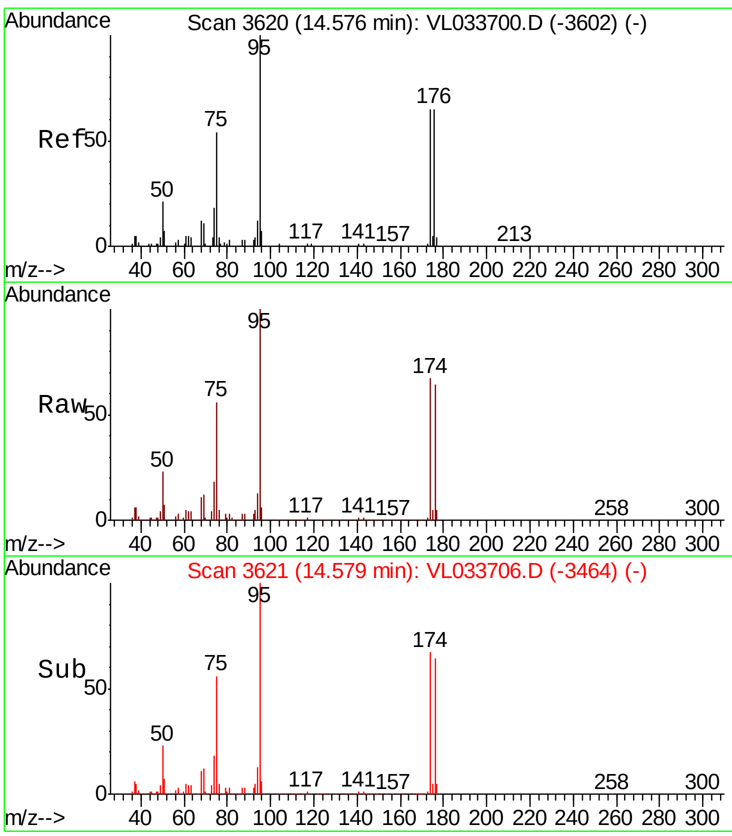
#67
sec-Butylbenzene
Concen: 13.731 ppbv
RT: 17.46 min Scan# 4517
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 8197568

Ion	Ratio	Lower	Upper
105	100		
134	18.6	14.6	22.0

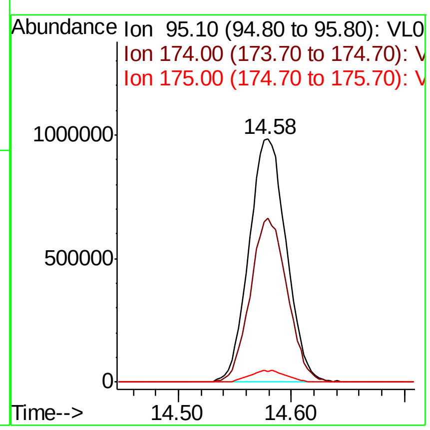


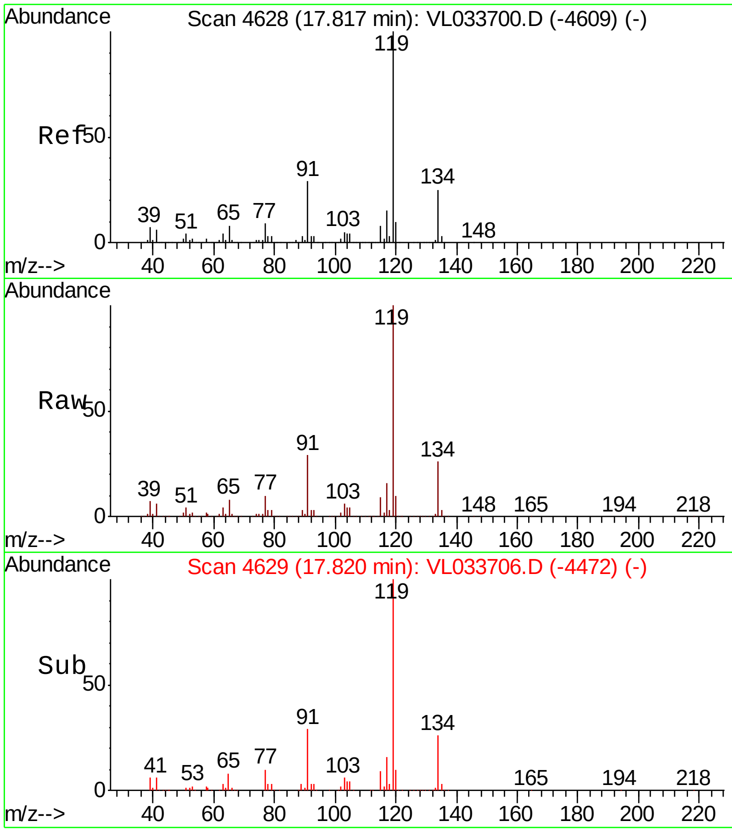


#68
1-Bromo-4-Fluorobenzene
Concen: 9.480 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 95 Resp: 2268330

Ion	Ratio	Lower	Upper
95	100		
174	67.0	53.9	80.9
175	4.8	3.8	5.8



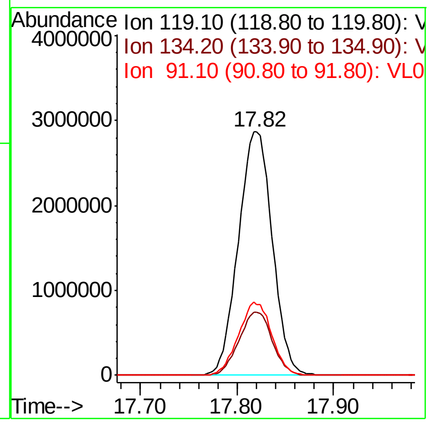


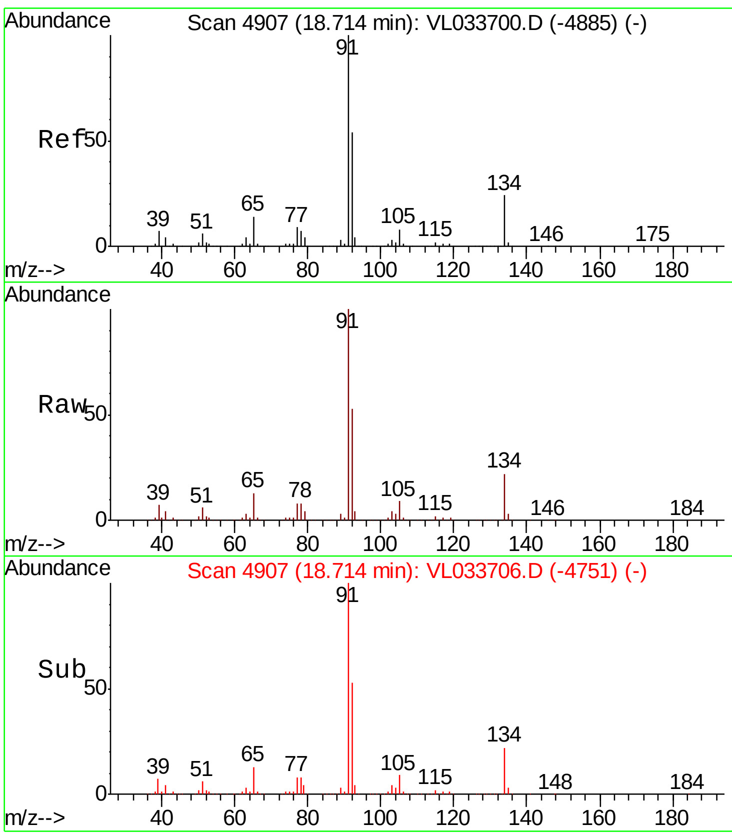
#69
p-Isopropyltoluene
Concen: 14.218 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:119 Resp: 7001600

Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.3	30.5
91	29.3	23.1	34.7

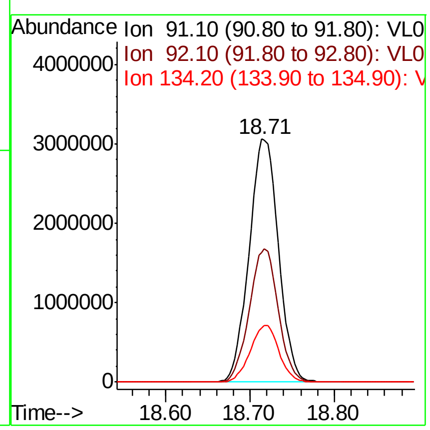




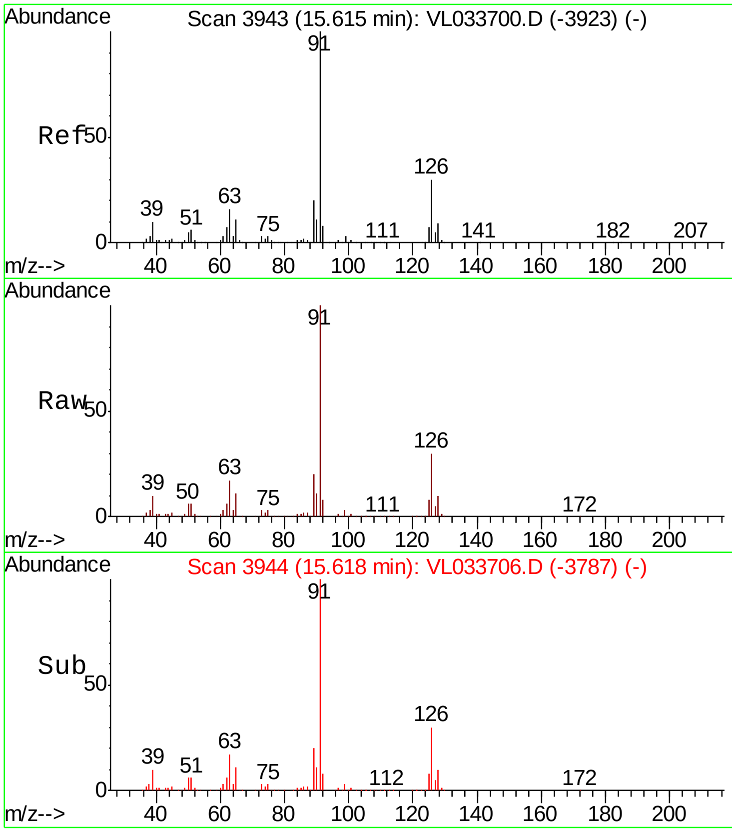
#70
n-Butylbenzene
Concen: 14.275 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 91 Resp: 7428221

Ion	Ratio	Lower	Upper
91	100		
92	54.0	42.6	63.8
134	22.9	18.1	27.1



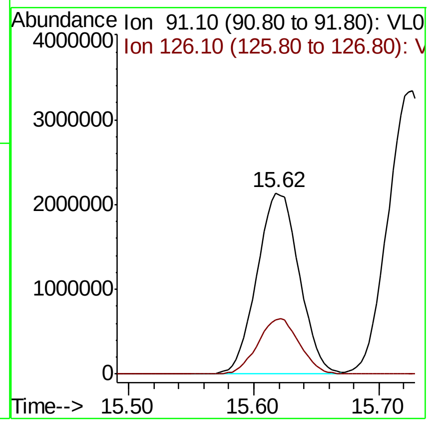
Instrument : MSVOA_L
ClientSampleId : VSTDICC015

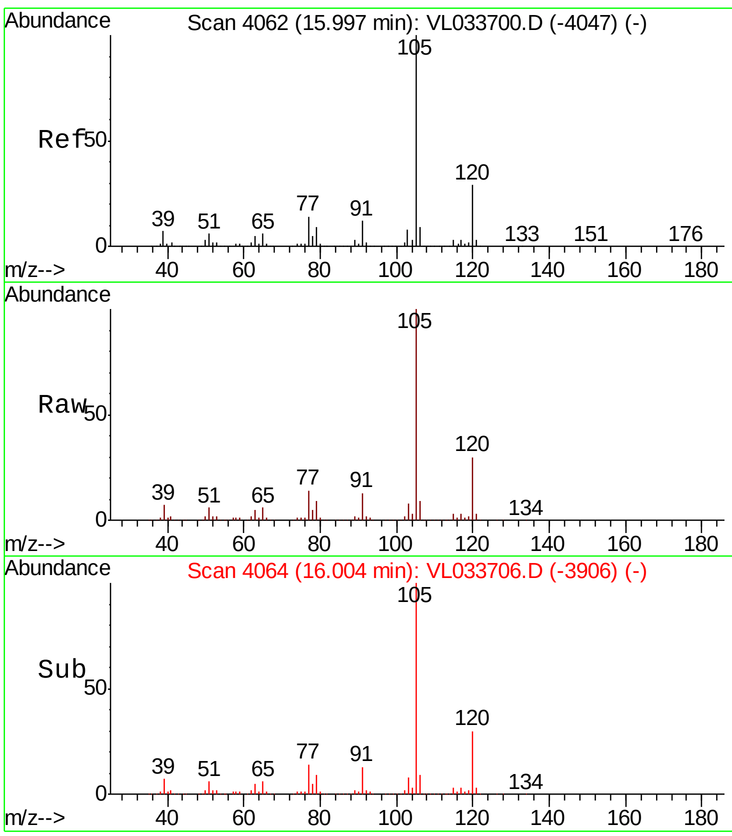


#71
2-Chlorotoluene
Concen: 14.547 ppbv
RT: 15.62 min Scan# 3944
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion: 91 Resp: 5020756

Ion	Ratio	Lower	Upper
91	100		
126	30.2	12.0	47.8

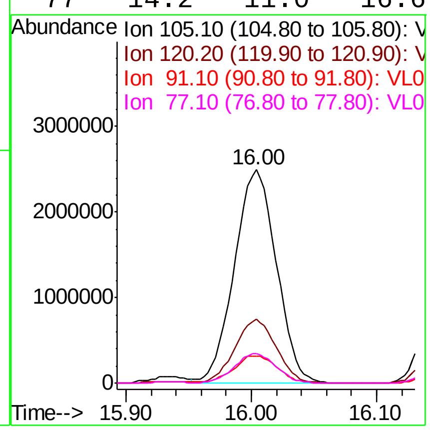


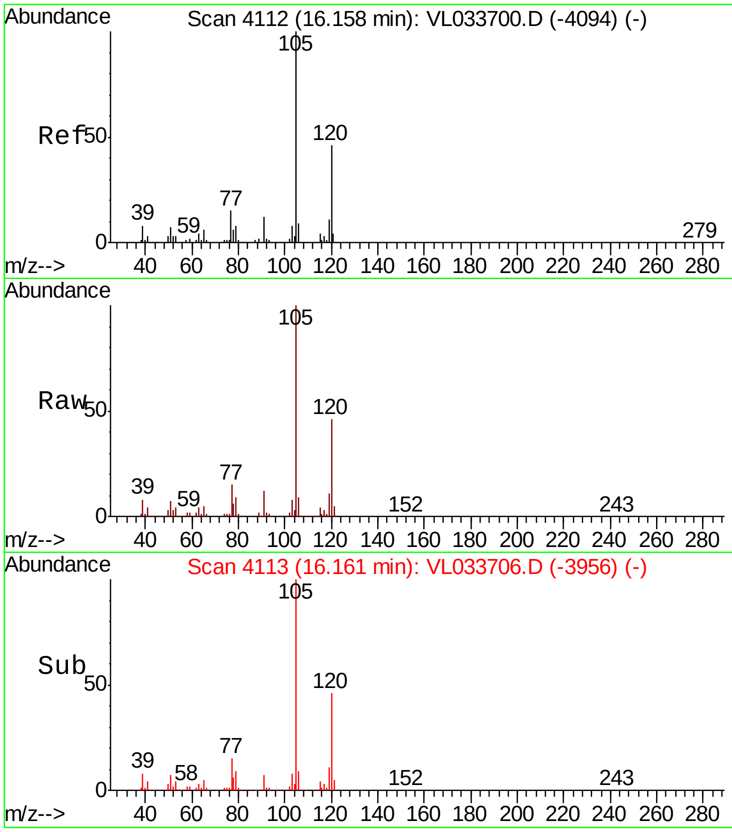


#72
4-Ethyltoluene
Concen: 14.487 ppbv
RT: 16.00 min Scan# 4064
Delta R.T. 0.01 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion:105 Resp: 5815207

Ion	Ratio	Lower	Upper
105	100		
120	29.3	23.1	34.7
91	13.1	10.4	15.6
77	14.2	11.0	16.6



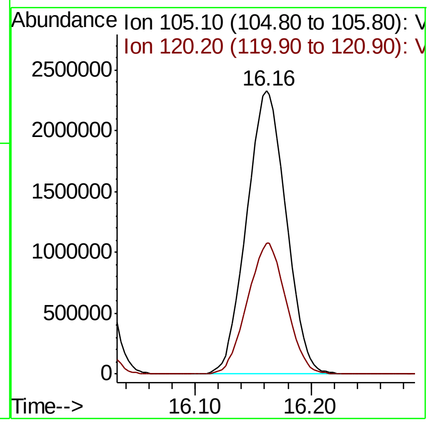


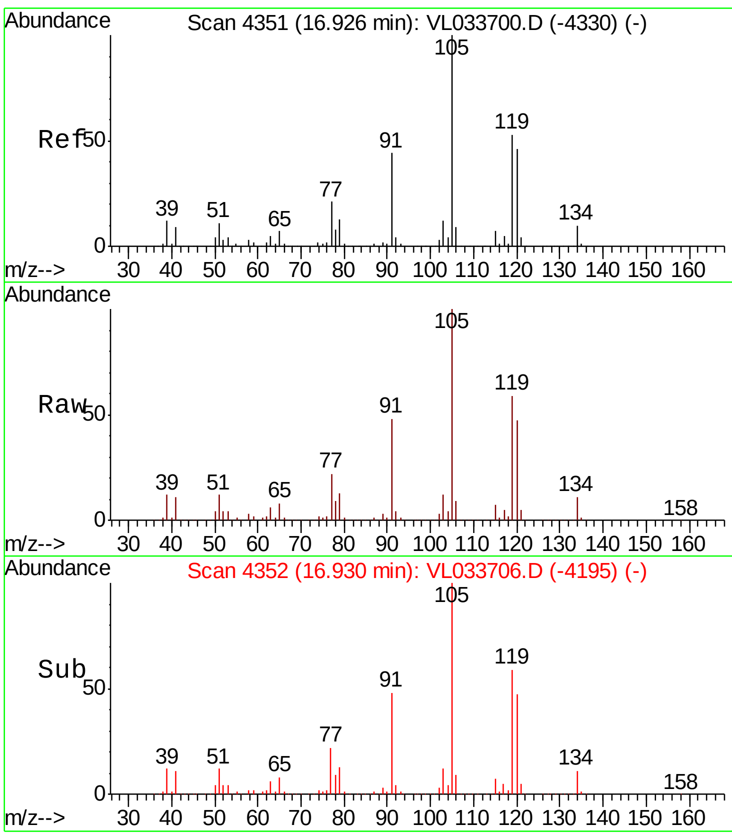
#73
1,3,5-Trimethylbenzene
Concen: 14.234 ppbv
RT: 16.16 min Scan# 4113
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:105 Resp: 5517335

Ion	Ratio	Lower	Upper
105	100		
120	46.3	37.0	55.4

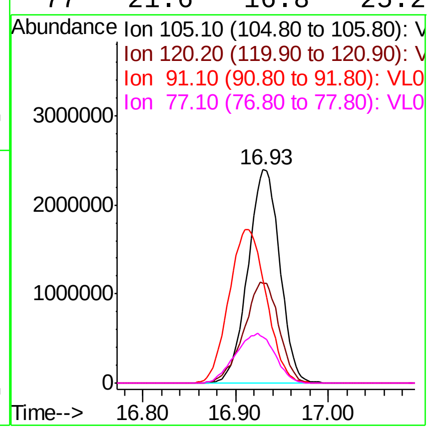


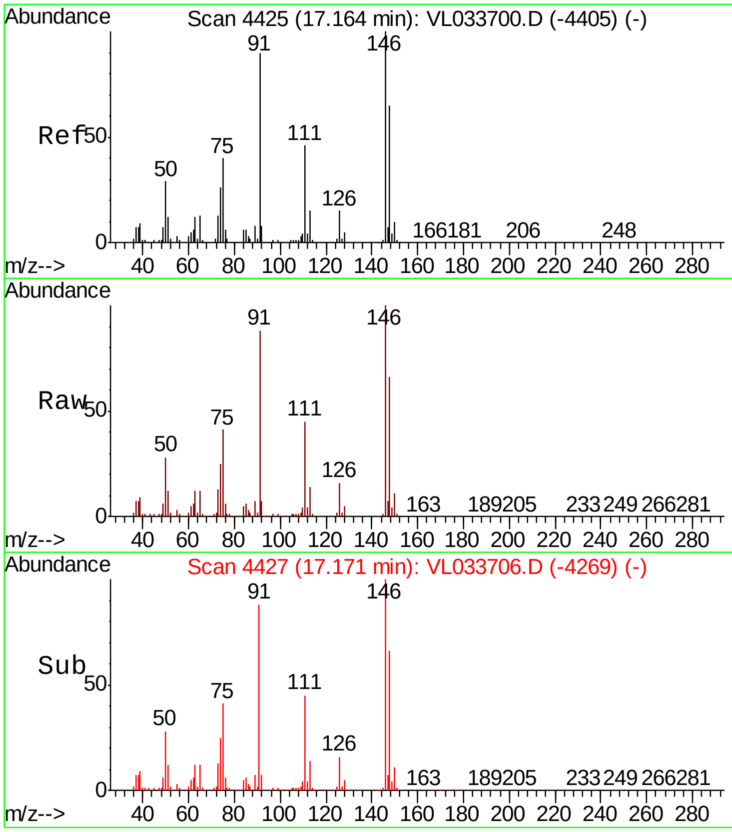


#74
1,2,4-Trimethylbenzene
Concen: 13.226 ppbv
RT: 16.93 min Scan# 4352
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Tgt Ion:105 Resp: 5715024

Ion	Ratio	Lower	Upper
105	100		
120	46.9	36.8	55.2
91	48.4	35.4	53.0
77	21.6	16.8	25.2



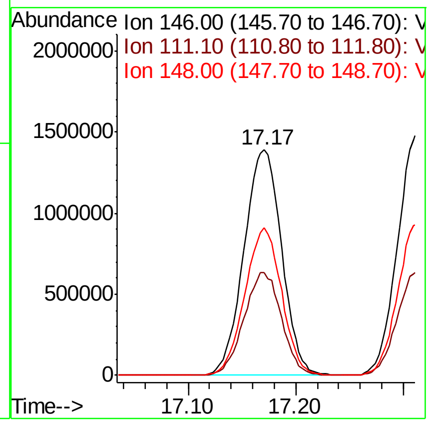


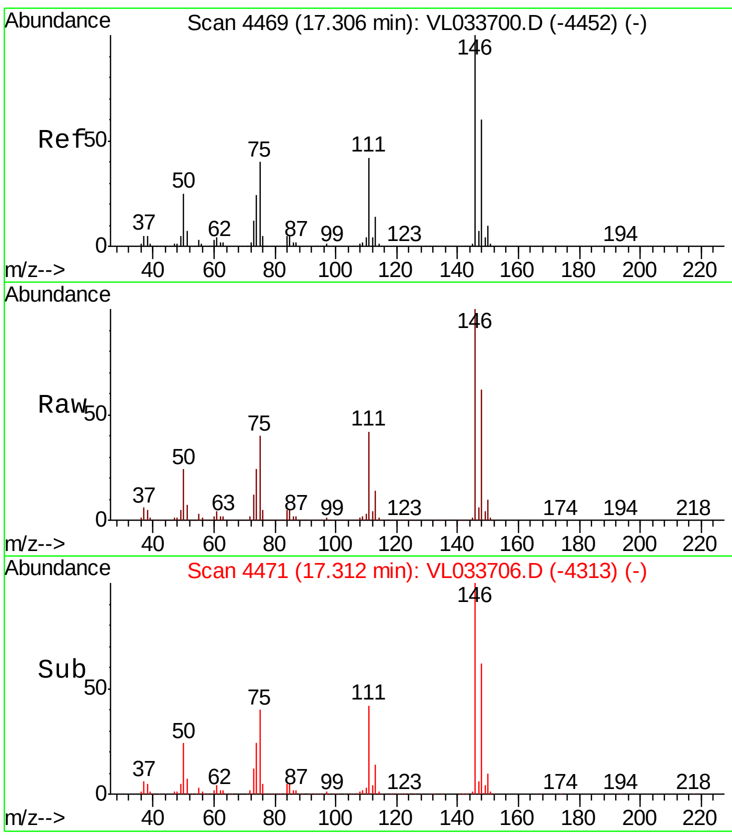
#75
1,3-Dichlorobenzene
Concen: 13.019 ppbv
RT: 17.17 min   Scan# 4427
Delta R.T.   0.01 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Instrument : MSVOA_L
ClientSampleId : VSTDICC015

Tgt Ion:146 Resp: 3386091

Ion	Ratio	Lower	Upper
146	100		
111	45.3	22.9	68.8
148	63.9	32.0	96.2

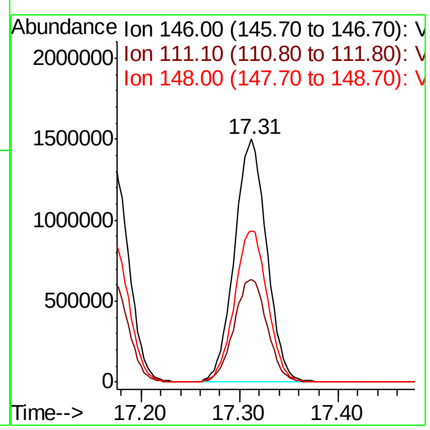


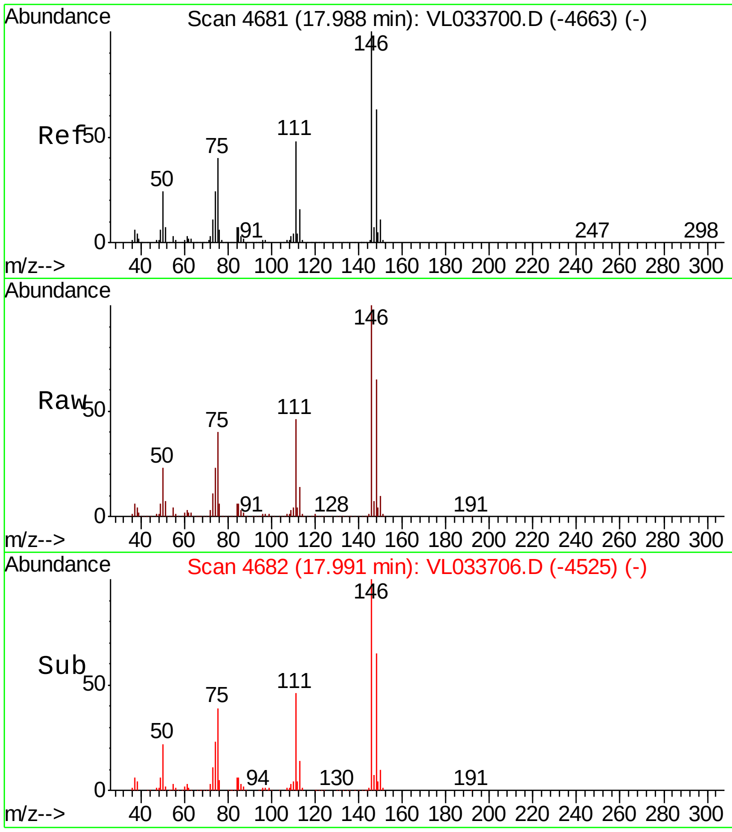


#76
1,4-Dichlorobenzene
Concen: 13.856 ppbv
RT: 17.31 min   Scan# 4471
Delta R.T.   0.01 min
Lab File: VL033706.D
Acq: 17 May 2019   5:53

Tgt Ion:146 Resp: 3419836

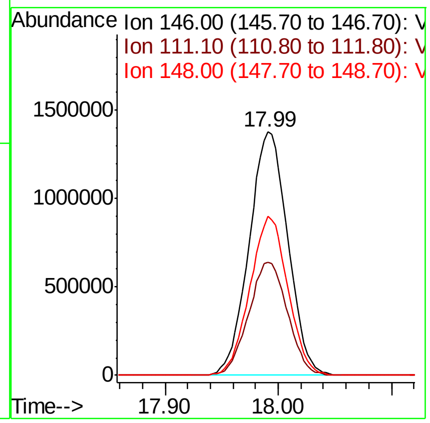
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.9	65.8
148	63.9	32.1	96.3

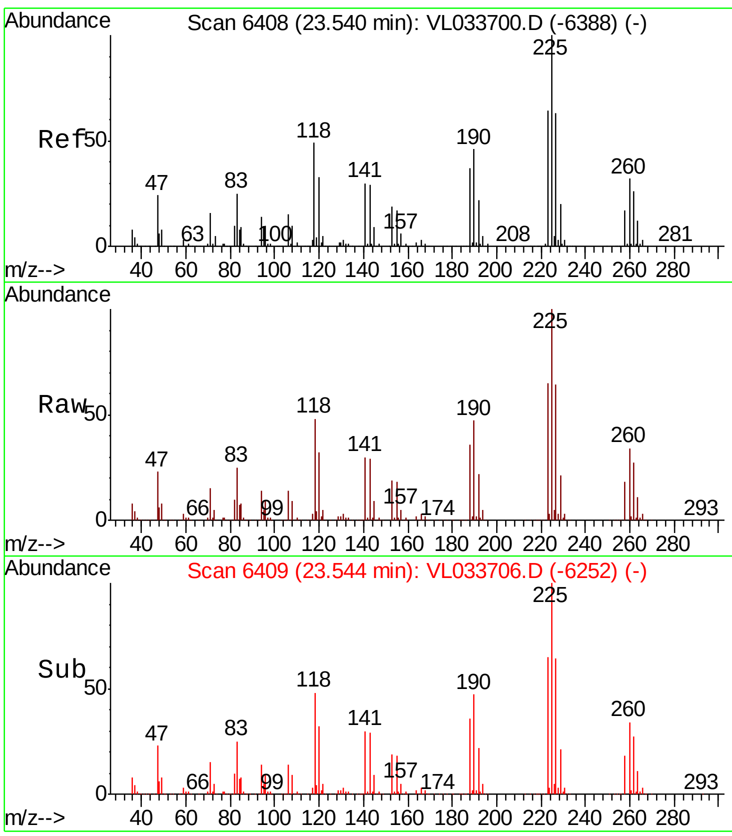




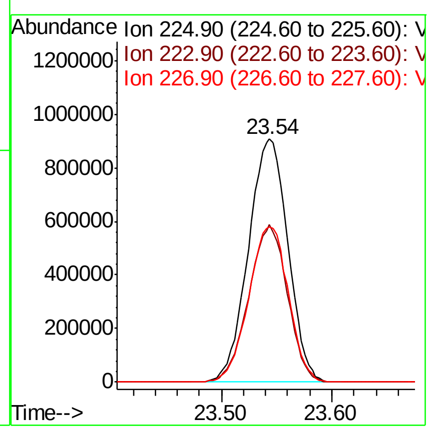

```
#77
1,2-Dichlorobenzene
Concen:    13.566 ppbv
RT: 17.99 min   Scan# 4682
Delta R.T.    0.00 min
Lab File:    VL033706.D
Acq: 17 May 2019    5:53

Tgt Ion:146 Resp: 3275090
Ion  Ratio  Lower  Upper
146  100
111   46.9   23.5   70.5
148   64.2   32.1   96.3
```

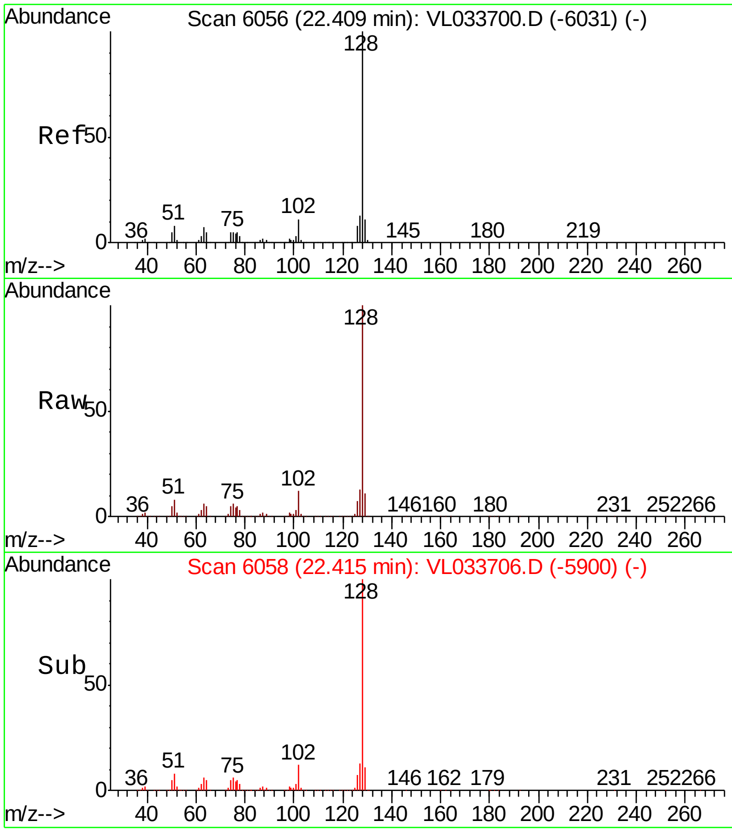
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015





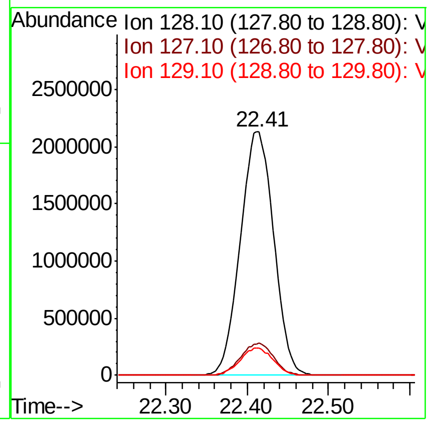

```
#78
Hexachloro-1,3-Butadiene
Concen:    11.783 ppbv
RT: 23.54 min   Scan# 6409
Delta R.T.    0.00 min
Lab File:    VL033706.D
Acq: 17 May 2019    5:53

Tgt Ion:225 Resp: 2255882
Ion  Ratio  Lower  Upper
225  100
223   63.2   50.2   75.4
227   64.1   50.7   76.1
```

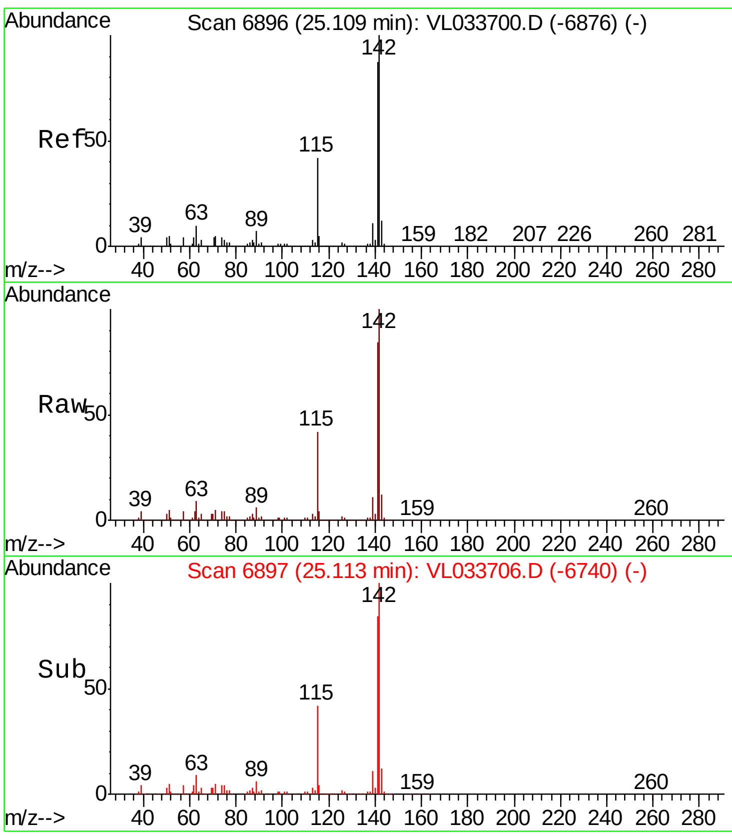




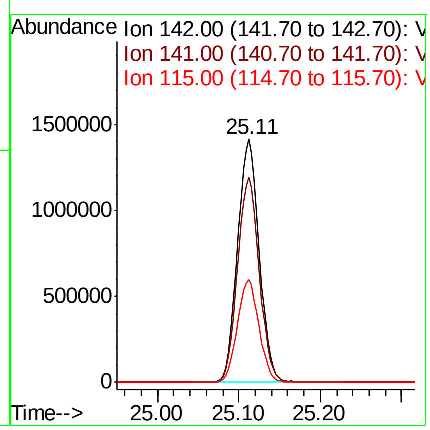
Instrument : MSVOA_L
ClientSampleId : VSTDICC015

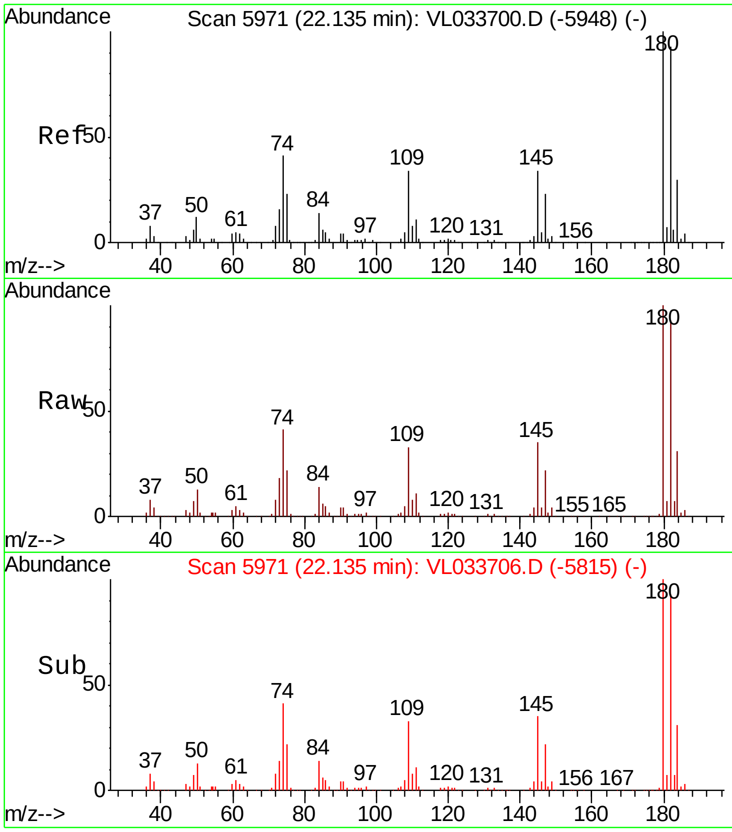
```
#79
Naphthalene
Concen:   15.291 ppbv
RT: 22.41 min   Scan# 6058
Delta R.T.   0.01 min
Lab File:   VL033706.D
Acq: 17 May 2019   5:53

Tgt Ion:128 Resp: 6036994
Ion  Ratio   Lower   Upper
128  100
127   13.4    10.6    16.0
129   11.4     8.9    13.3
```






```
#80
Naphthalene,2-methyl-
Concen:   17.474 ppbv
RT: 25.11 min   Scan# 6897
Delta R.T.   0.00 min
Lab File:   VL033706.D
Acq: 17 May 2019   5:53

Tgt Ion:142 Resp: 2633981
Ion  Ratio   Lower   Upper
142  100
141   84.6    67.2   100.8
115   42.2    34.1    51.1
```





#81
1,2,4-Trichlorobenzene
Concen: 14.150 ppbv
RT: 22.14 min Scan# 5971
Delta R.T. 0.00 min
Lab File: VL033706.D
Acq: 17 May 2019 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion:180 Resp: 3248667

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.1	114.1
184	30.6	24.6	37.0