

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102915\
 Data File : VL026276.D
 Acq On : 29 Oct 2015 22:31
 Operator : SY/AP
 Sample : G4169-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 29 23:03:25 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 29 14:29:54 2015
 QLast Update : Thu Oct 29 14:29:54 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	574539	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.35	114	1578774	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.77	117	1769476	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.32	95	1386277	10.33	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.65	85	15696	0.13	ppbv	95
3) Chlorodifluoromethane	3.58	51	215404	2.98	ppbv	99
4) Chloromethane	3.77	50	13602	0.33	ppbv	93
8) Dichlorotetrafluoroethane	3.82	85	1168	0.01	ppbv #	76
9) Propene	3.61	41	51559	1.48	ppbv #	81
10) Heptane	9.38	43	72530	0.62	ppbv	100
11) Trichlorofluoromethane	4.71	101	20922	0.18	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.32	101	3945	0.05	ppbv	94
13) Ethanol	4.35	45	11830	2.27	ppbv	93
15) Acetone	4.62	43	1426603	18.75	ppbv	96
16) 1,3-Butadiene	3.96	39	95814	2.55	ppbv #	18
17) tert-Butyl alcohol	5.15	59	30567	0.56	ppbv	98
19) Isopropyl Alcohol	4.78	45	10560	0.32	ppbv #	24
20) Methylene Chloride	5.17	84	36724	1.11	ppbv	95
21) Allyl Chloride	5.15	41	11278	0.21	ppbv #	76
23) Vinyl Acetate	6.03	43	65460	0.45	ppbv #	49
25) Ethyl Acetate	6.68	43	66595	0.42	ppbv #	79
26) Hexane	6.68	57	91247	1.18	ppbv #	47
27) Carbon Disulfide	5.40	76	2473	0.03	ppbv #	35
29) Chloroform	6.77	83	3887	0.03	ppbv	97
30) Cyclohexane	8.30	84	2677	0.04	ppbv #	1
34) 2-Butanone	6.23	43	94885	1.00	ppbv	98
35) Carbon Tetrachloride	8.19	117	5053	0.04	ppbv	91
36) Benzene	8.04	78	50130	0.30	ppbv	99
38) Trichloroethene	9.09	130	2511	0.03	ppbv #	84
41) Tetrahydrofuran	7.18	42	555	0.01	ppbv #	36
43) Methyl Methacrylate	9.31	69	5577	0.09	ppbv #	1
44) 2,2,4-Trimethylpentane	9.11	57	23515	0.09	ppbv #	62
47) 1,1,2-Trichloroethane	11.29	97	1321	0.02	ppbv #	1
50) 4-Methyl-2-Pentanone	10.13	43	14574	0.11	ppbv	88
51) 2-Hexanone	11.65	43	40049	0.34	ppbv #	95
52) Tetrachloroethene	12.82	164	1520	0.02	ppbv #	73
53) Toluene	11.26	91	111426	0.51	ppbv	98
57) Chlorobenzene	13.87	112	2626	0.01	ppbv #	28
58) Ethyl Benzene	14.44	91	154536	0.53	ppbv	97
59) m/p-Xylene	14.72	91	102115	0.44	ppbv #	100
60) o-Xylene	15.52	91	51840	0.22	ppbv	97
61) Styrene	15.34	104	20792	0.20	ppbv	96
62) Isopropylbenzene	16.57	105	62329	0.19	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.52	83	2612	0.01	ppbv #	25
64) n-propylbenzene	17.55	120	3404	0.04	ppbv #	1

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 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

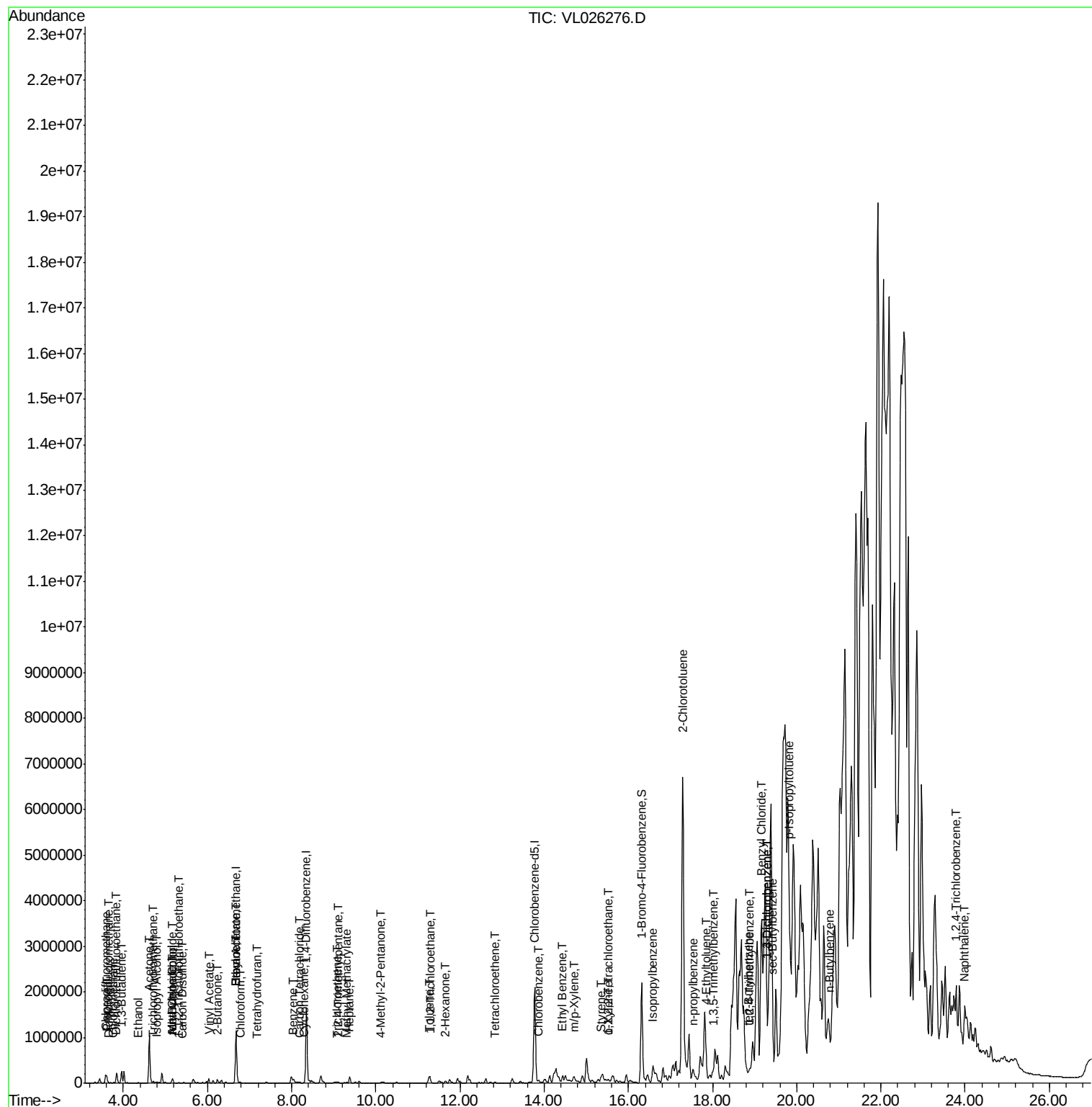
Quant Time: Oct 29 23:03:25 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 29 14:29:54 2015
 QLast Update : Thu Oct 29 14:29:54 2015
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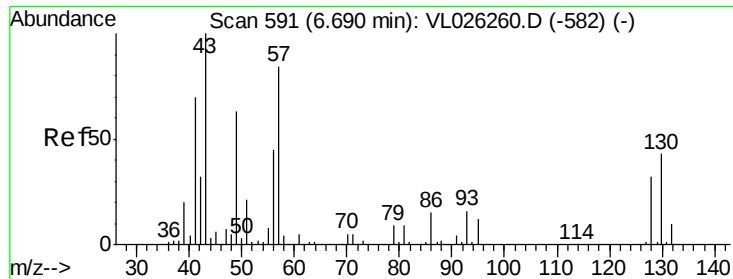
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	18.85	119	3814	0.01	ppbv #	23
66) Benzyl Chloride	19.15	91	1268	0.01	ppbv #	1
67) sec-Butylbenzene	19.44	105	4707	0.01	ppbv #	68
69) p-Isopropyltoluene	19.82	119	70607	0.21	ppbv #	95
70) n-Butylbenzene	20.79	91	6097	0.02	ppbv #	74
71) 2-Chlorotoluene	17.29	91	2049476	8.50	ppbv #	44
72) 4-Ethyltoluene	17.85	105	18075	0.07	ppbv #	84
73) 1,3,5-Trimethylbenzene	18.02	105	19365	0.08	ppbv	100
74) 1,2,4-Trimethylbenzene	18.86	105	56855	0.21	ppbv #	74
75) 1,3-Dichlorobenzene	19.30	146	2720	0.02	ppbv #	1
76) 1,4-Dichlorobenzene	19.30	146	2720	0.02	ppbv #	1
79) Naphthalene	23.97	128	39495	0.21	ppbv #	45
81) 1,2,4-Trichlorobenzene	23.78	180	1112	0.01	ppbv #	1

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

Instrument :
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 589

Delta R.T. -0.01 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

ClientSampleId :

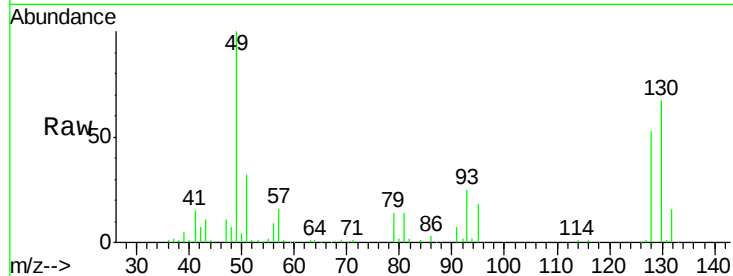
Tot Ion: 49 Resp: 574539

Ion Ratio Lower Upper

49 100

128 52.6 26.7 80.1

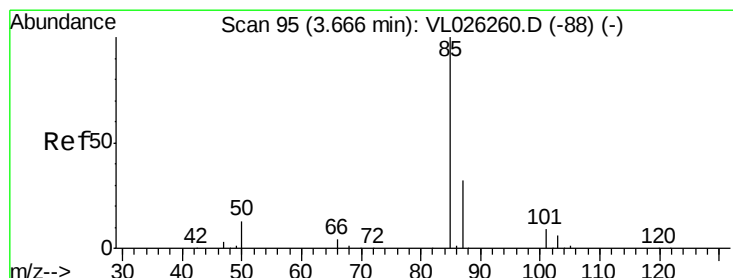
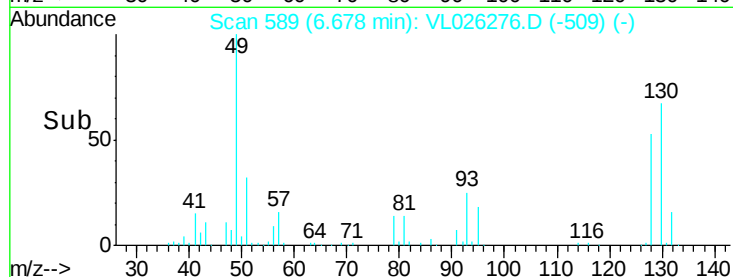
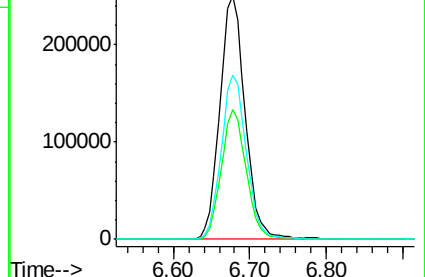
130 67.6 34.4 103.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.13 ppbv

RT: 3.65 min Scan# 93

Delta R.T. -0.01 min

Lab File: VL026276.D

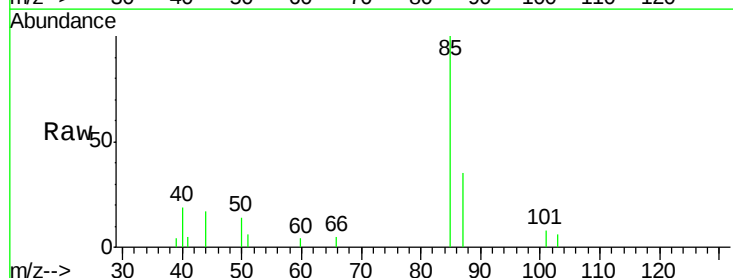
Acq: 29 Oct 2015 22:31

Tgt Ion: 85 Resp: 15696

Ion Ratio Lower Upper

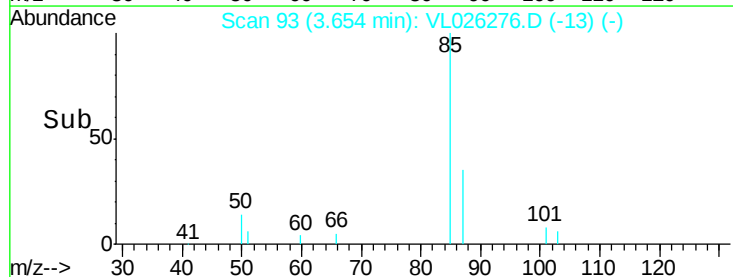
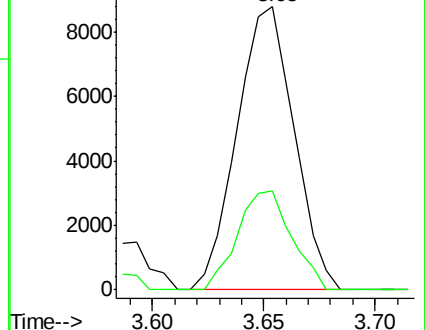
85 100

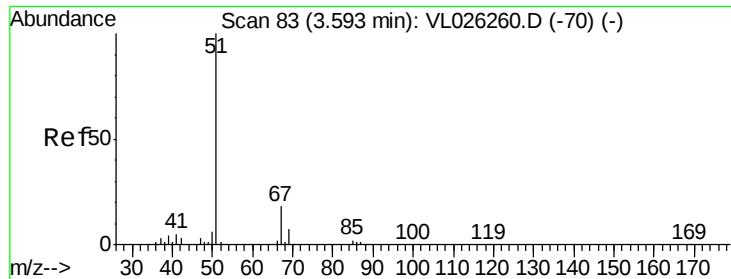
87 35.0 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

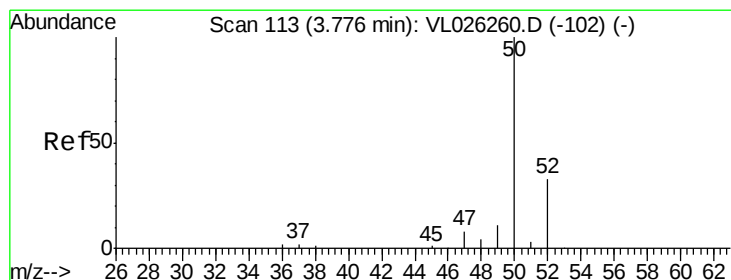
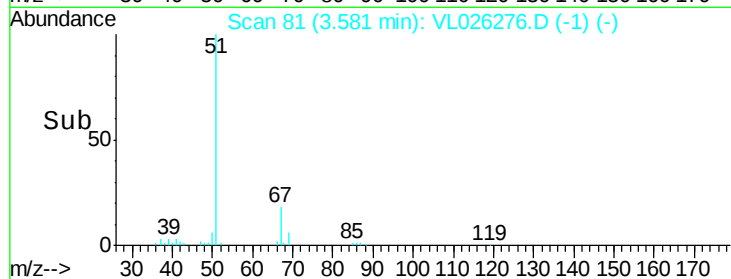
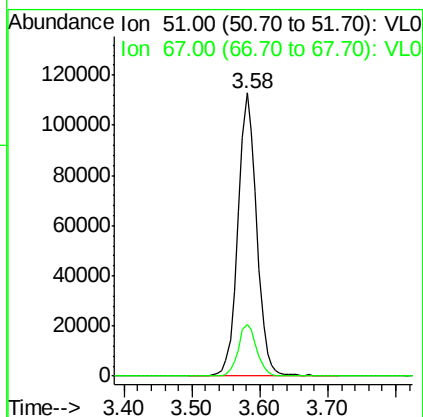
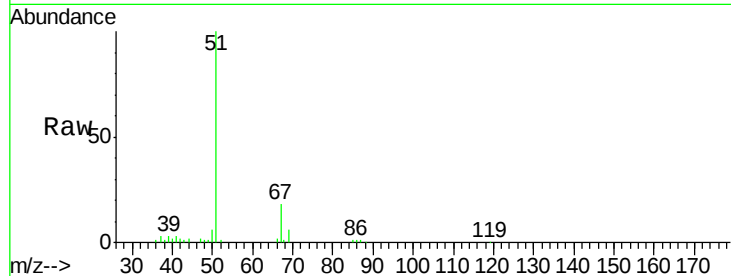




#3
Chlorodifluoromethane
Concen: 2.98 ppbv
RT: 3.58 min Scan# 81
Delta R.T. -0.01 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

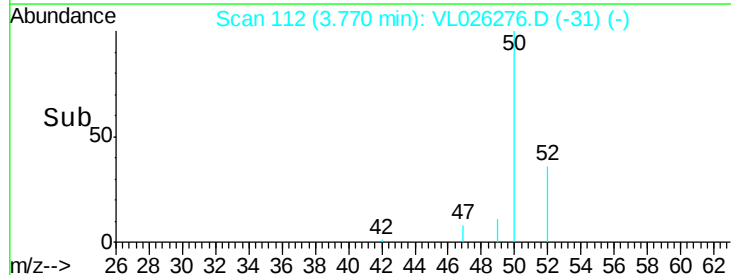
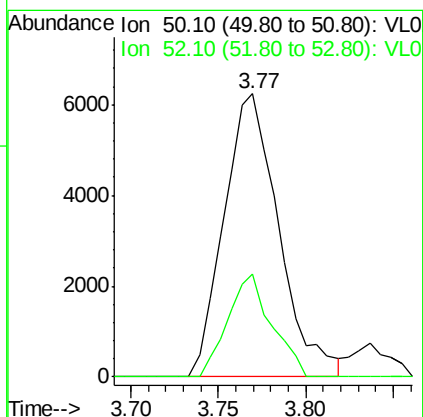
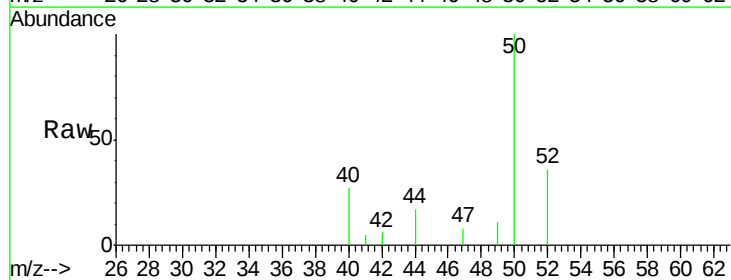
Instrument :
MSVOA_L
ClientSampleId :

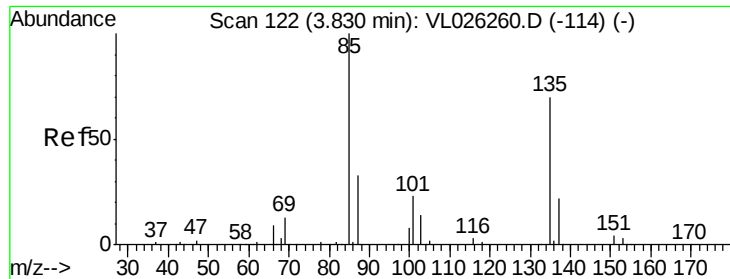
Tot Ion: 51 Resp: 215404
Ion Ratio Lower Upper
51 100
67 17.7 14.5 21.7



#4
Chloromethane
Concen: 0.33 ppbv
RT: 3.77 min Scan# 112
Delta R.T. -0.01 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

Tgt Ion: 50 Resp: 13602
Ion Ratio Lower Upper
50 100
52 36.5 26.1 39.1





#8

Dichlorotetrafluoroethane

Concen: 0.01 ppbv

RT: 3.82 min Scan# 120

Delta R.T. -0.01 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

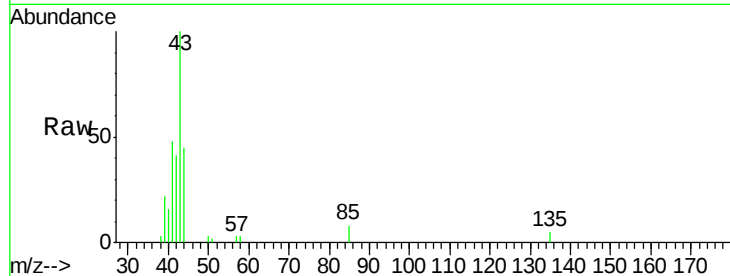
ClientSampleId :

Tot Ion: 85 Resp: 1168

Ion Ratio Lower Upper

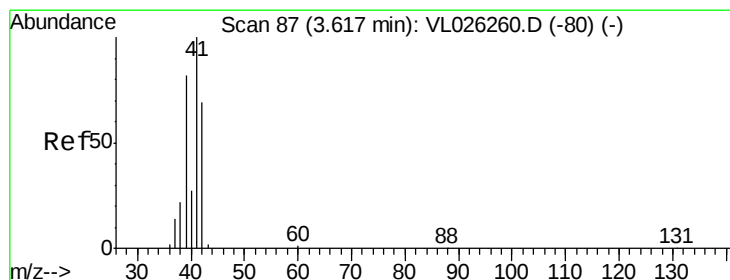
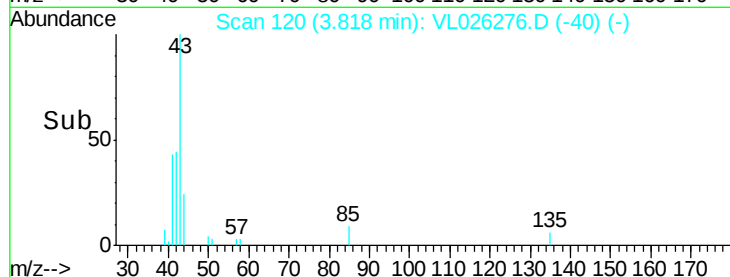
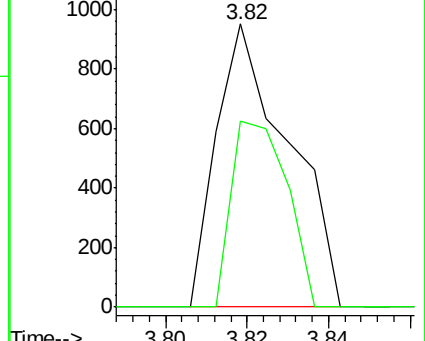
85 100

135 50.6 56.6 84.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 1.48 ppbv

RT: 3.61 min Scan# 85

Delta R.T. -0.01 min

Lab File: VL026276.D

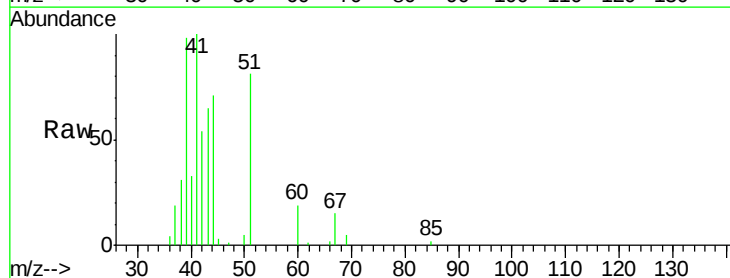
Acq: 29 Oct 2015 22:31

Tgt Ion: 41 Resp: 51559

Ion Ratio Lower Upper

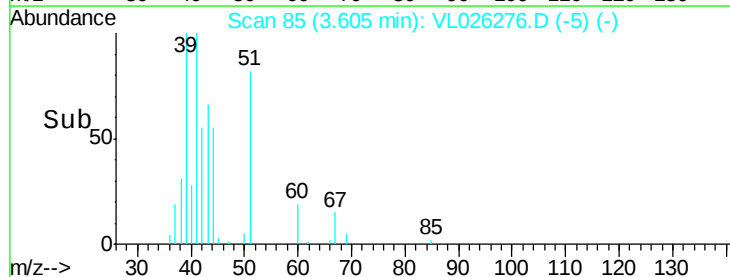
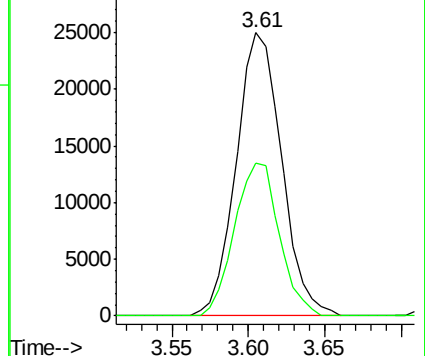
41 100

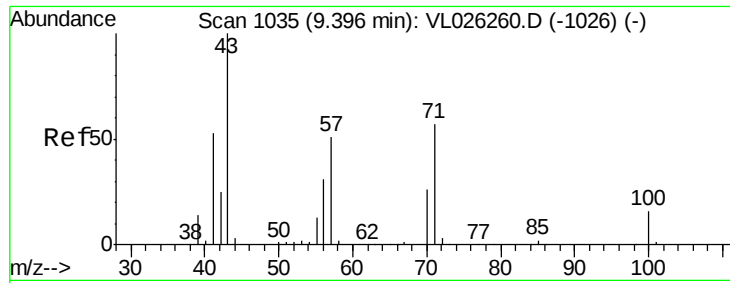
42 52.9 54.5 81.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

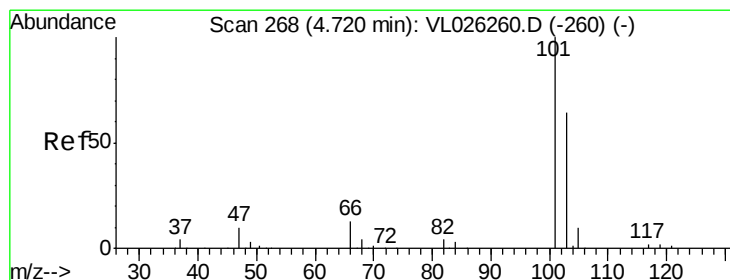
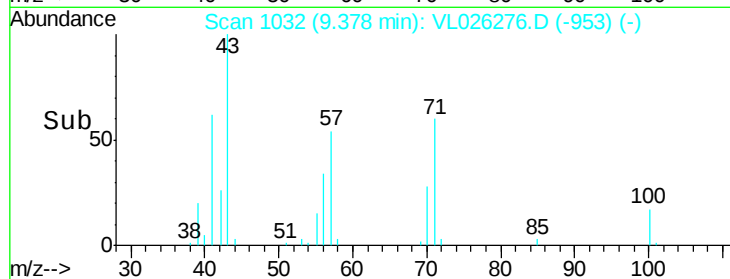
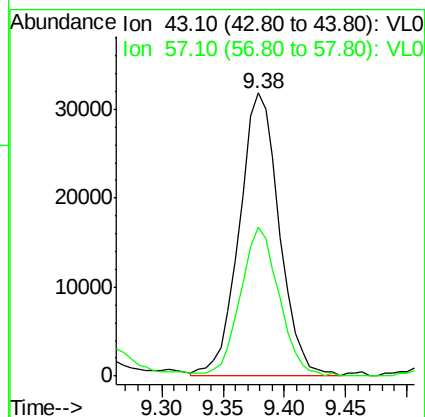
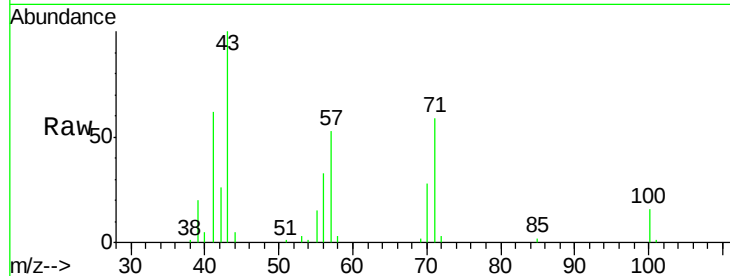




#10
Heptane
Concen: 0.62 ppbv
RT: 9.38 min Scan# 1032
Delta R.T. -0.02 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

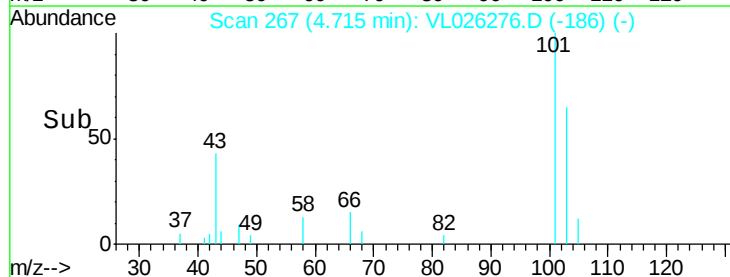
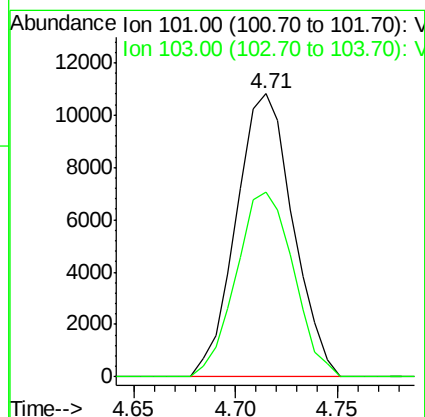
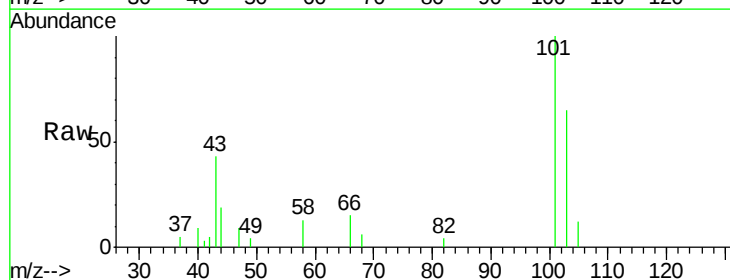
Instrument :
MSVOA_L
ClientSampleId :

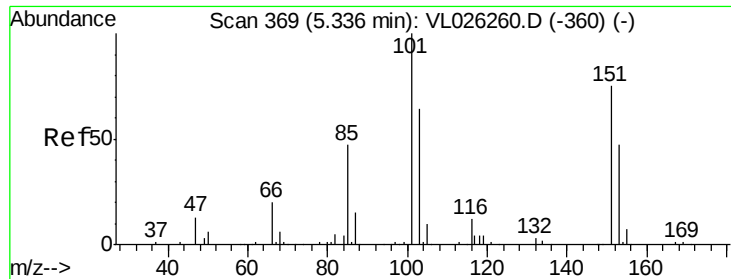
Tot Ion: 43 Resp: 72530
Ion Ratio Lower Upper
43 100
57 51.2 41.1 61.7



#11
Trichlorofluoromethane
Concen: 0.18 ppbv
RT: 4.71 min Scan# 267
Delta R.T. -0.01 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

Tgt Ion:101 Resp: 20922
Ion Ratio Lower Upper
101 100
103 65.2 51.4 77.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.05 ppbv

RT: 5.32 min Scan# 367

Delta R.T. -0.01 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

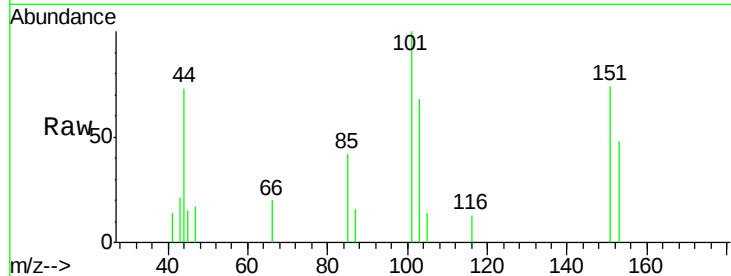
ClientSampleId :

Tot Ion:101 Resp: 3945

Ion Ratio Lower Upper

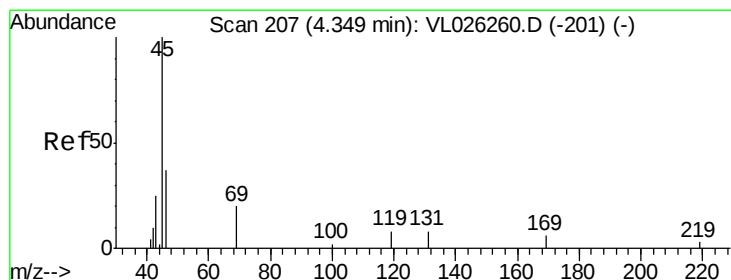
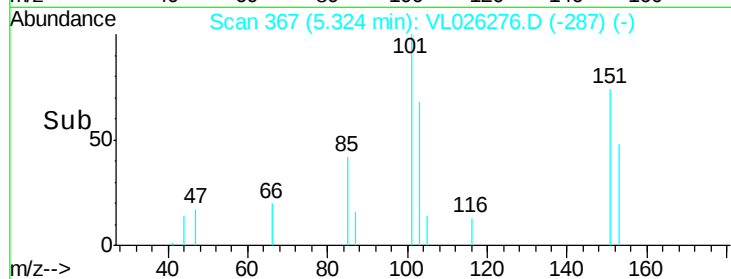
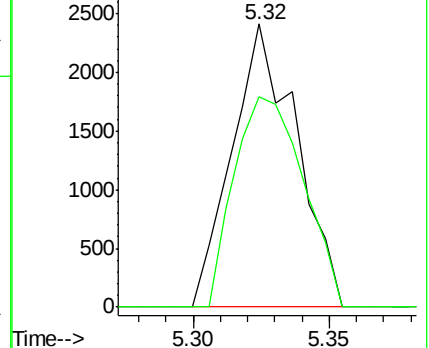
101 100

151 80.2 60.3 90.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 2.27 ppbv

RT: 4.35 min Scan# 208

Delta R.T. 0.01 min

Lab File: VL026276.D

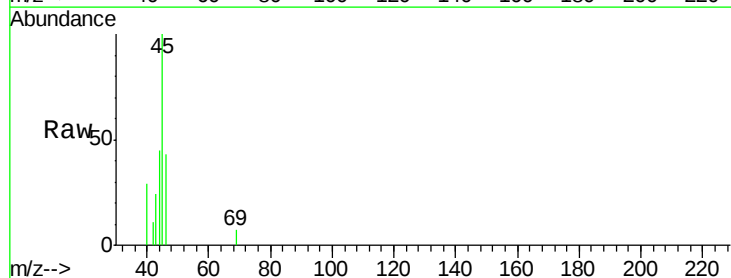
Acq: 29 Oct 2015 22:31

Tgt Ion: 45 Resp: 11830

Ion Ratio Lower Upper

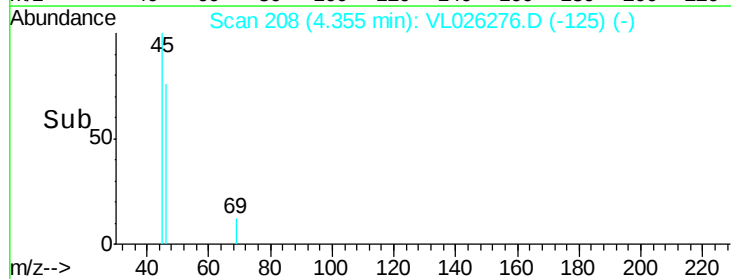
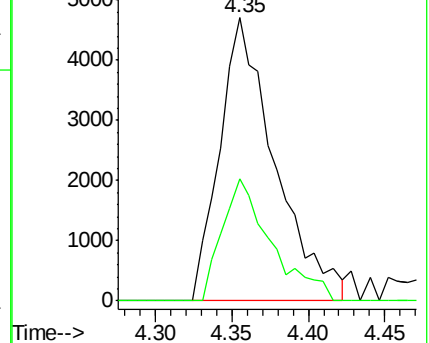
45 100

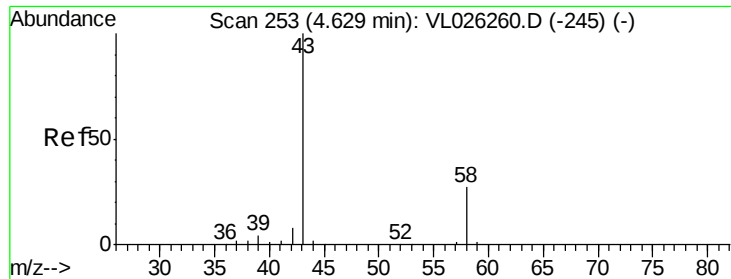
46 38.3 17.0 68.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 18.75 ppbv

RT: 4.62 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

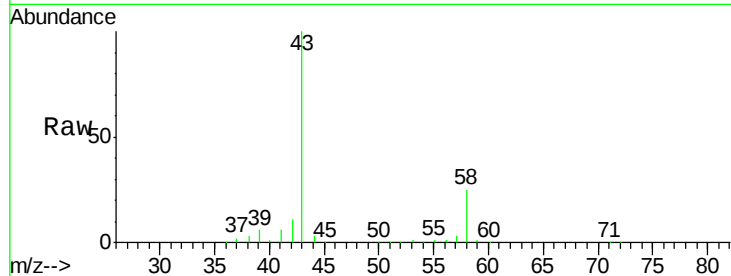
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1426603

Ion Ratio Lower Upper

43 100

58 25.7 22.3 33.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.62

600000

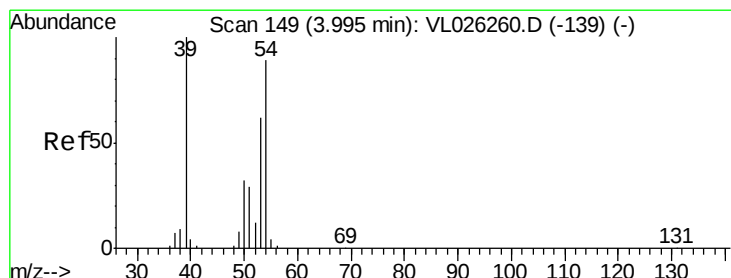
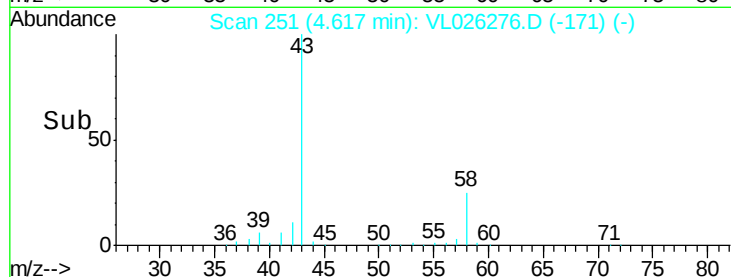
400000

200000

0

Time-->

4.50 4.60 4.70 4.80



#16

1,3-Butadiene

Concen: 2.55 ppbv

RT: 3.96 min Scan# 144

Delta R.T. -0.03 min

Lab File: VL026276.D

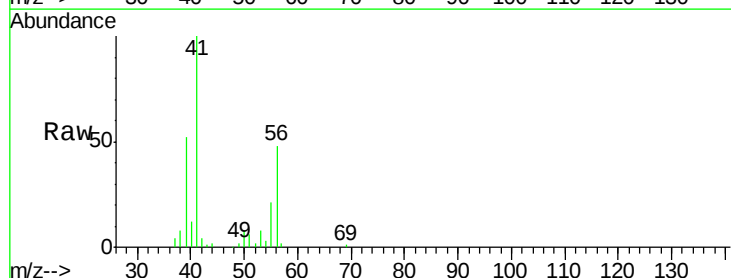
Acq: 29 Oct 2015 22:31

Tgt Ion: 39 Resp: 95814

Ion Ratio Lower Upper

39 100

54 9.4 67.3 100.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.96

50000

40000

30000

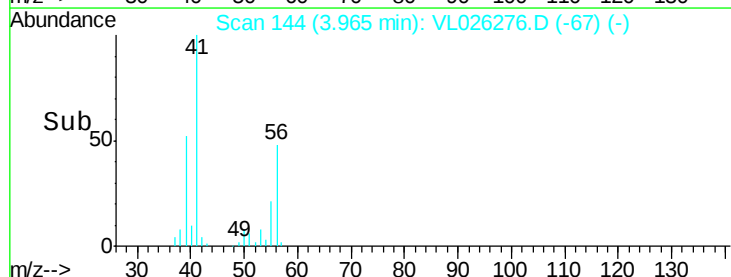
20000

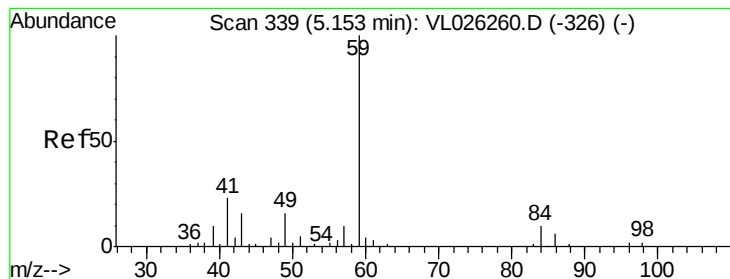
10000

0

Time-->

3.90 3.95 4.00





#17

tert-Butyl alcohol

Concen: 0.56 ppbv

RT: 5.15 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

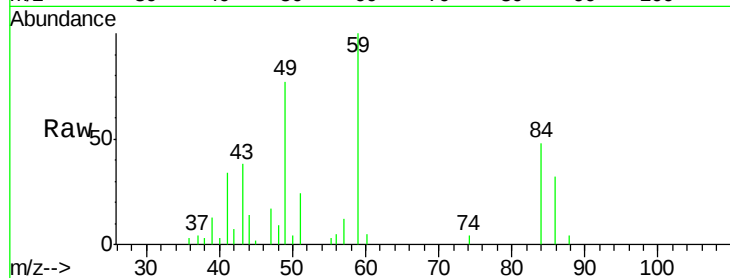
ClientSampleId :

Tot Ion: 59 Resp: 30567

Ion Ratio Lower Upper

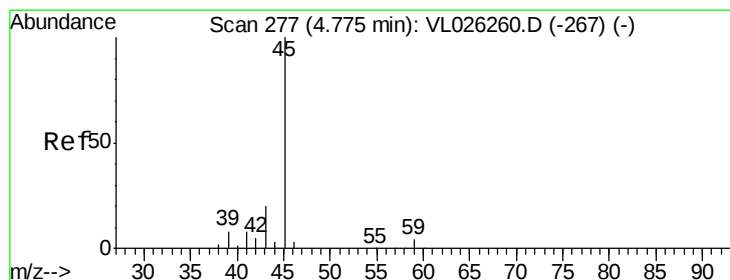
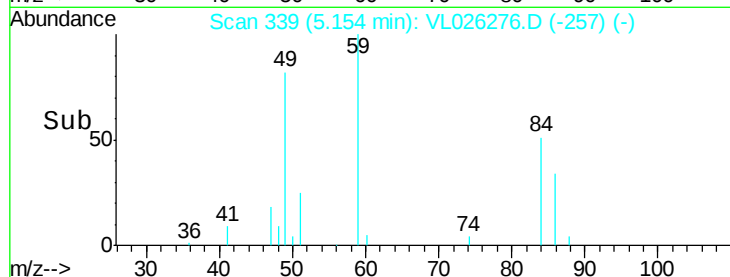
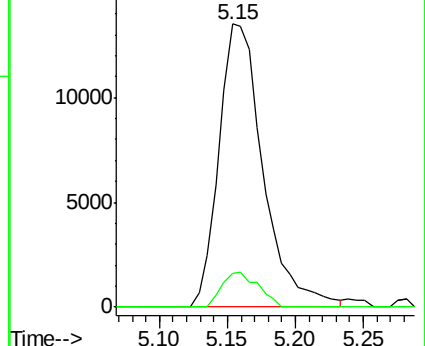
59 100

57 10.1 8.7 13.1



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 0.32 ppbv

RT: 4.78 min Scan# 278

Delta R.T. 0.01 min

Lab File: VL026276.D

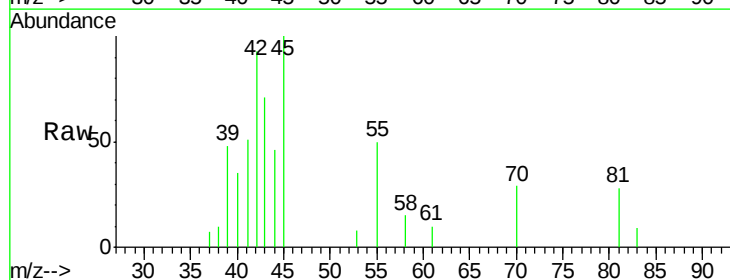
Acq: 29 Oct 2015 22:31

Tgt Ion: 45 Resp: 10560

Ion Ratio Lower Upper

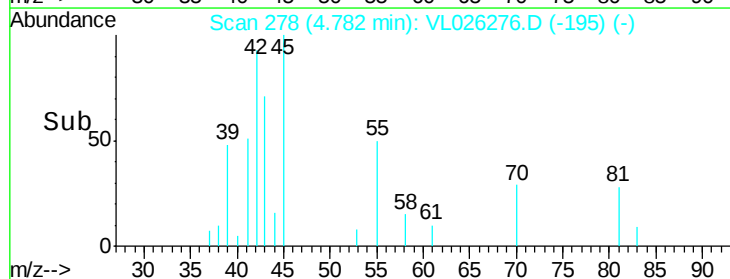
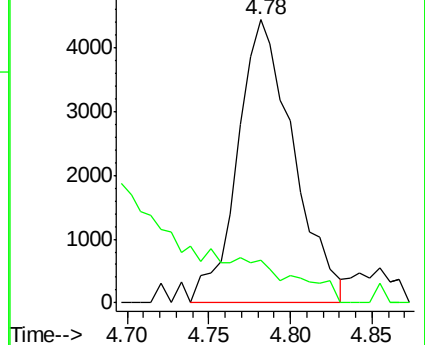
45 100

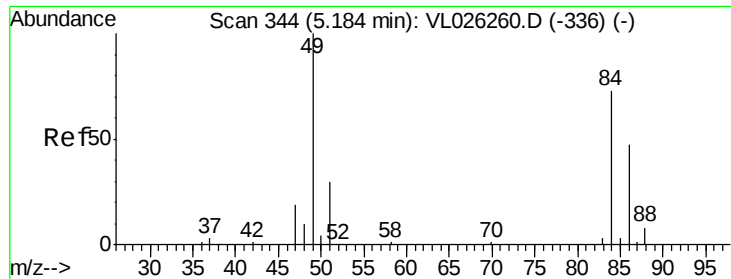
58 0.0 43.8 65.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

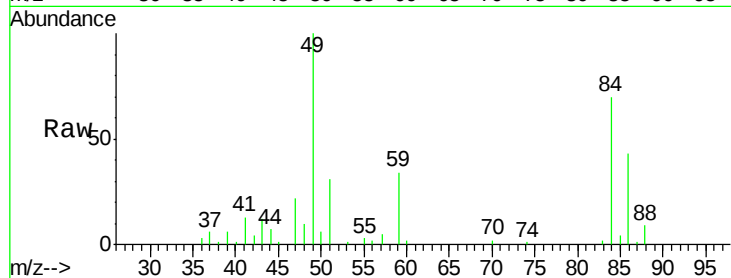




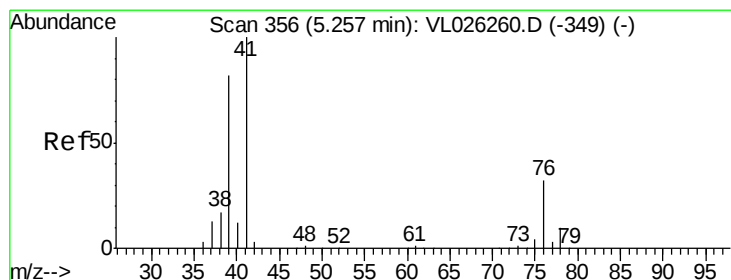
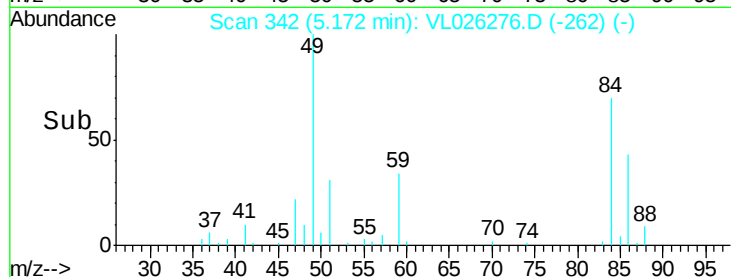
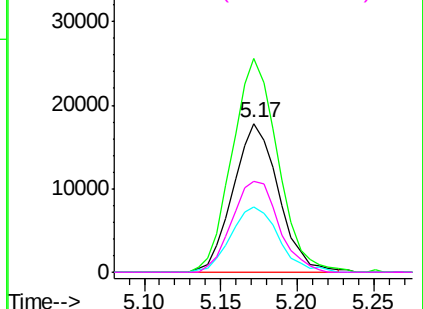
#20
Methylene Chloride
Concen: 1.11 ppbv
RT: 5.17 min Scan# 342
Delta R.T. -0.01 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 36724
Ion Ratio Lower Upper
84 100
49 143.6 109.0 163.4
51 44.1 32.8 49.2
86 61.1 50.8 76.2

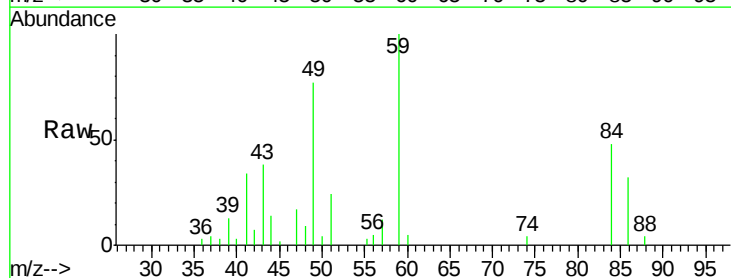


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

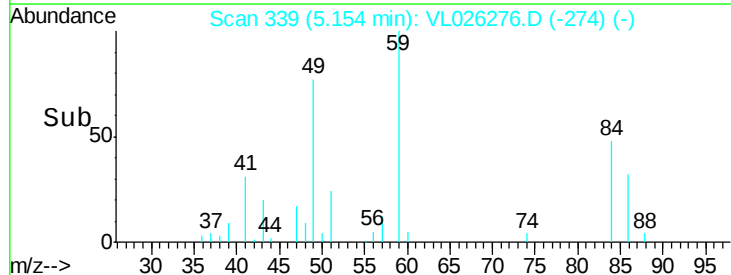
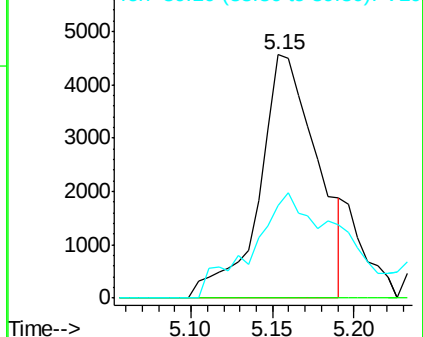


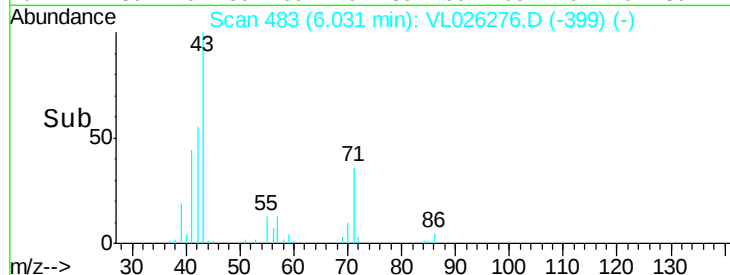
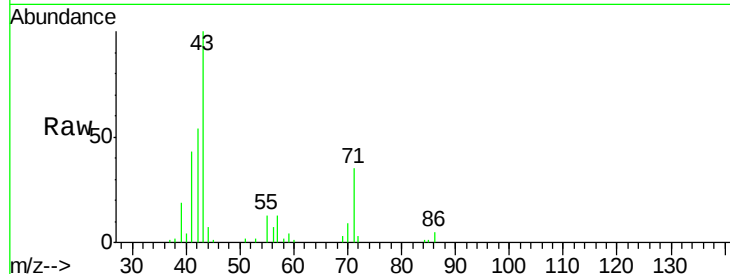
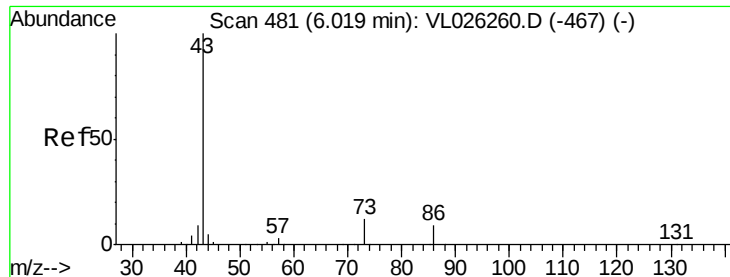
#21
Allyl Chloride
Concen: 0.21 ppbv
RT: 5.15 min Scan# 339
Delta R.T. -0.10 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

Tgt Ion: 41 Resp: 11278
Ion Ratio Lower Upper
41 100
76 0.0 25.9 38.9#
39 72.6 65.8 98.6



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

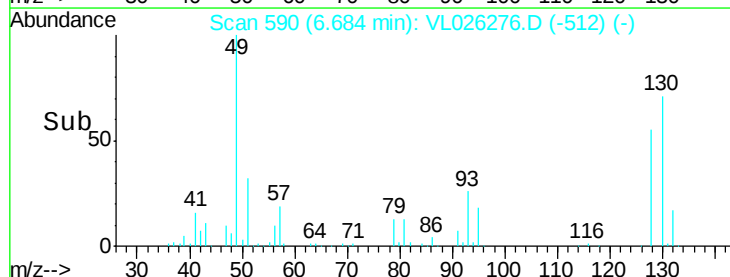
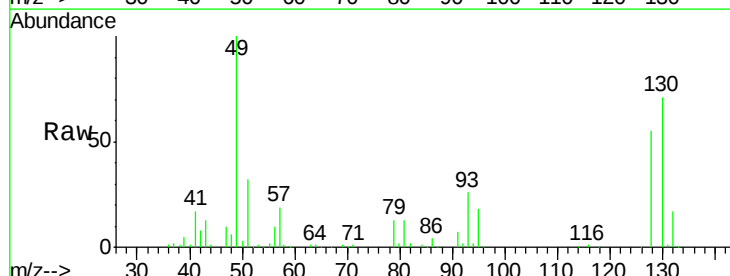
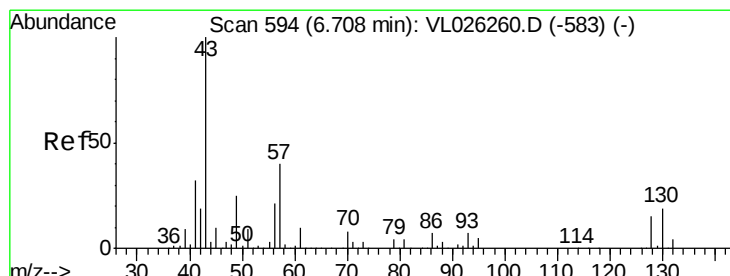
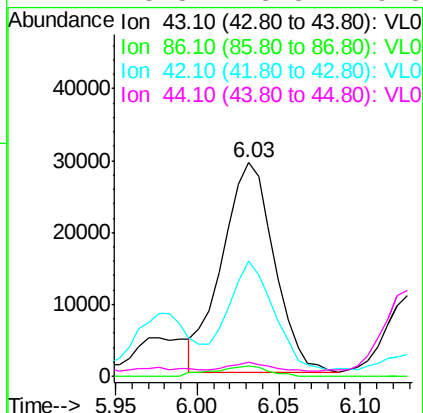




#23
 Vinyl Acetate
 Concen: 0.45 ppbv
 RT: 6.03 min Scan# 483
 Delta R.T. 0.01 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

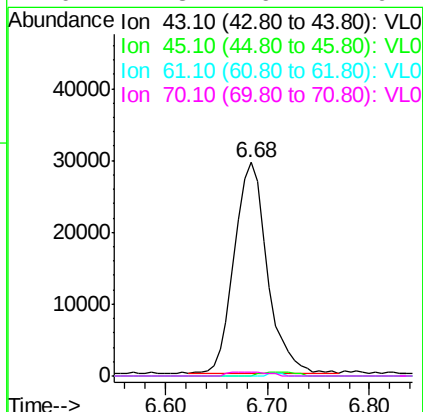
Instrument :
 MSVOA_L
 ClientSampleId :

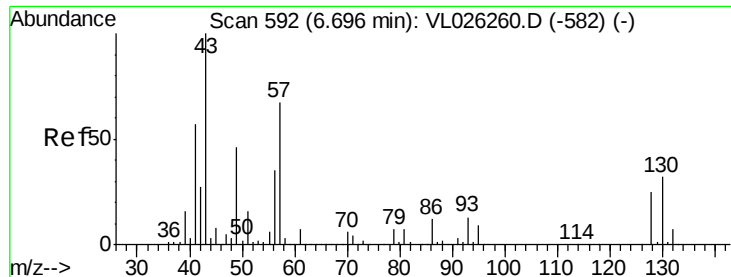
Tot Ion:	43	Resp:	65460
Ion	Ratio	Lower	Upper
43	100		
86	5.1	7.3	10.9#
42	51.4	7.2	10.8#
44	3.8	3.8	5.8#



#25
 Ethyl Acetate
 Concen: 0.42 ppbv
 RT: 6.68 min Scan# 590
 Delta R.T. -0.02 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

Tgt Ion:	43	Resp:	66595
Ion	Ratio	Lower	Upper
43	100		
45	2.0	7.6	11.4#
61	0.5	7.4	11.2#
70	2.3	6.7	10.1#

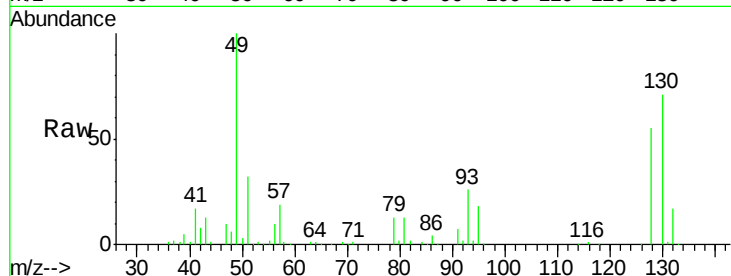




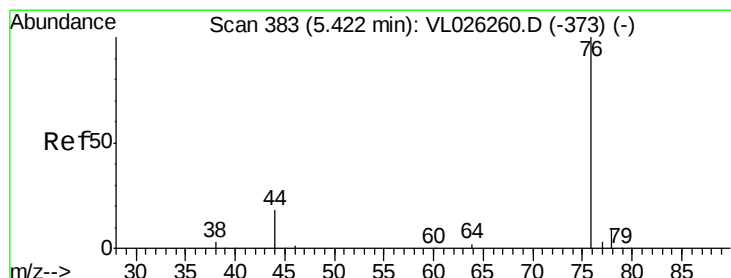
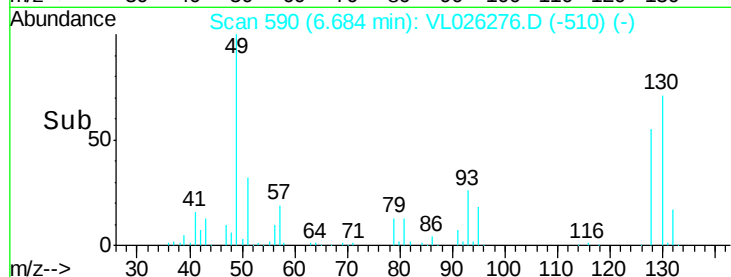
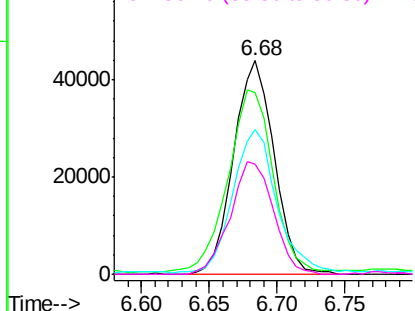
#26
Hexane
Concen: 1.18 ppbv
RT: 6.68 min Scan# 590
Delta R.T. -0.01 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 91247
Ion Ratio Lower Upper
57 100
41 95.3 67.4 101.2
43 79.2 163.9 245.9#
56 56.2 42.2 63.2

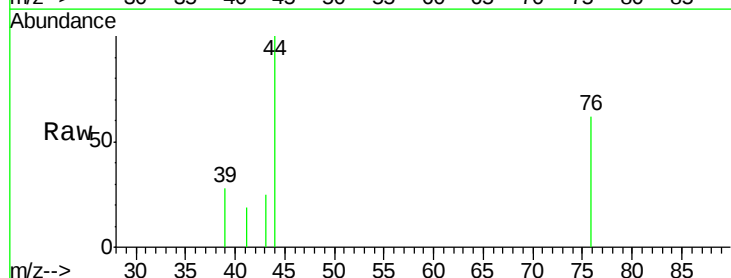


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

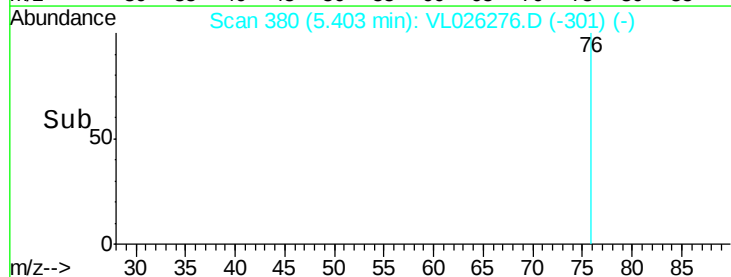
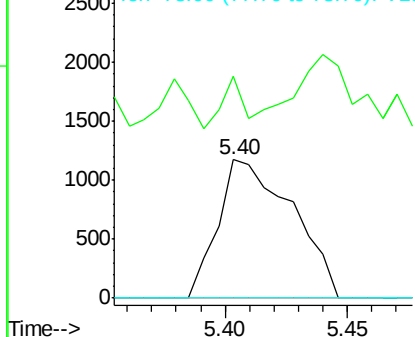


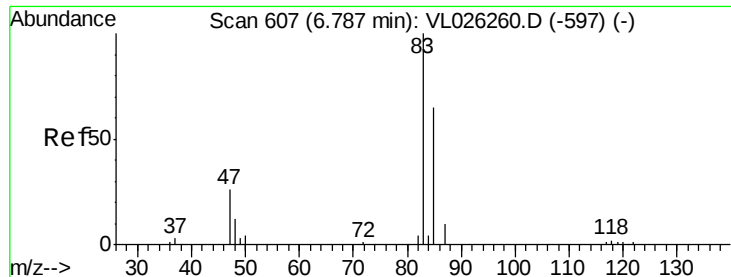
#27
Carbon Disulfide
Concen: 0.03 ppbv
RT: 5.40 min Scan# 380
Delta R.T. -0.02 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

Tgt Ion: 76 Resp: 2473
Ion Ratio Lower Upper
76 100
44 55.2 14.1 21.1#
78 0.0 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

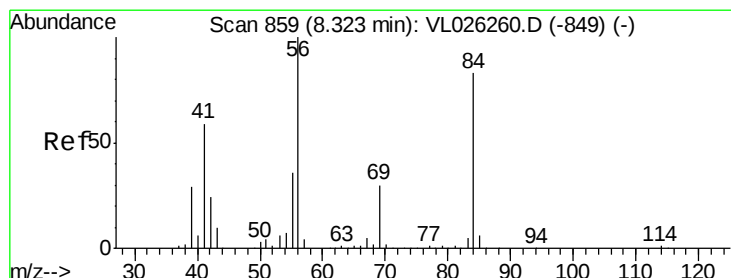
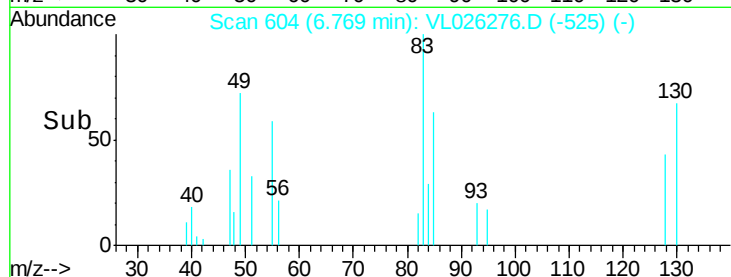
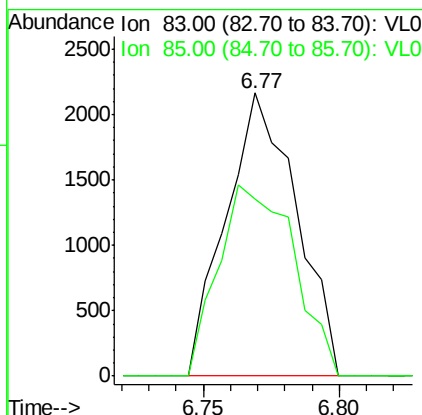
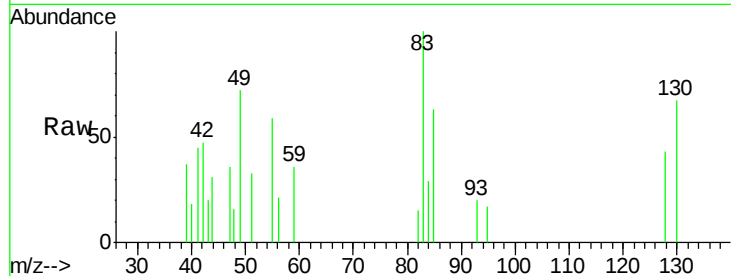




#29
Chloroform
Concen: 0.03 ppbv
RT: 6.77 min Scan# 604
Delta R.T. -0.02 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

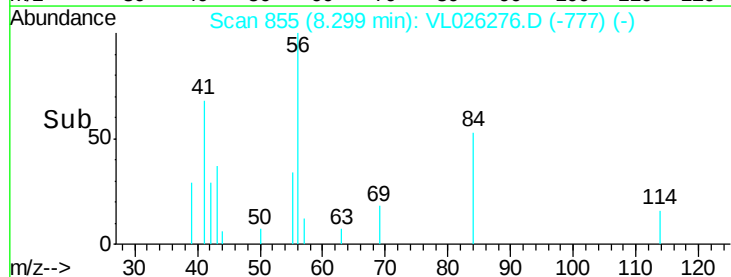
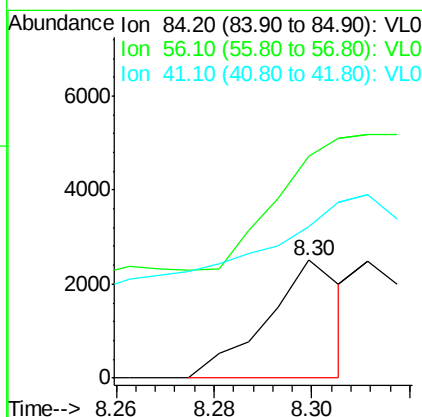
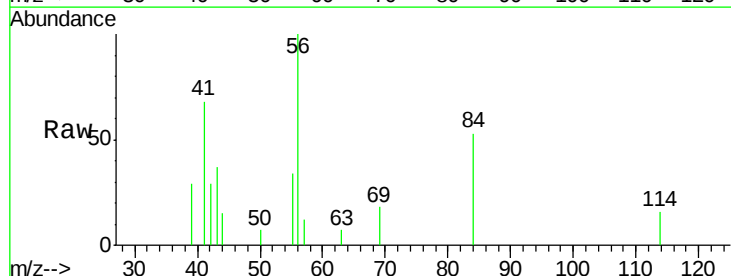
Instrument :
MSVOA_L
ClientSampleId :

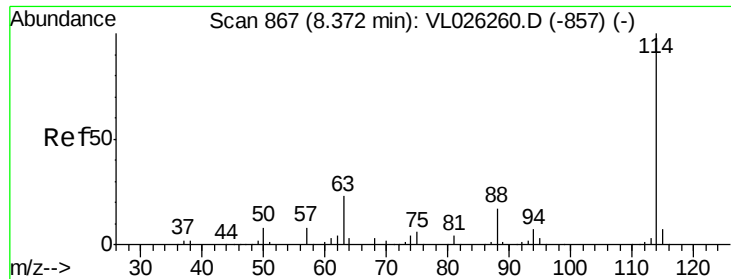
Tot Ion: 83 Resp: 3887
Ion Ratio Lower Upper
83 100
85 62.6 52.0 78.0



#30
Cyclohexane
Concen: 0.04 ppbv
RT: 8.30 min Scan# 855
Delta R.T. -0.02 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

Tgt Ion: 84 Resp: 2677
Ion Ratio Lower Upper
84 100
56 0.0 99.6 149.4#
41 0.0 56.7 85.1#

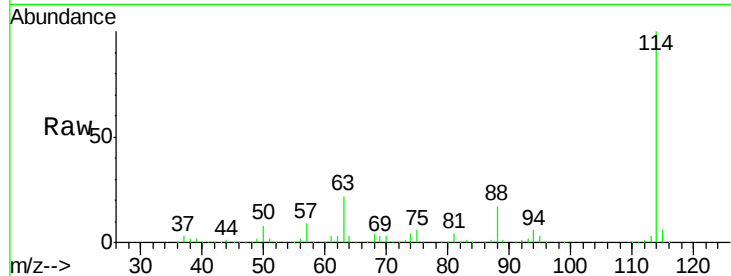




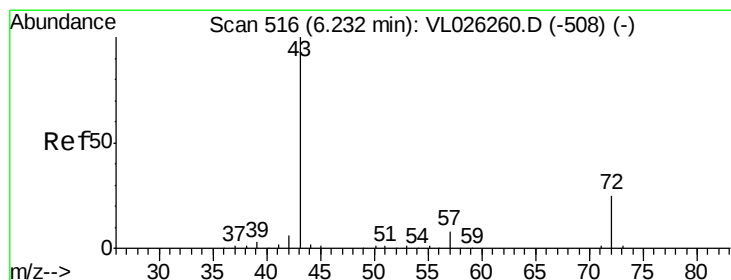
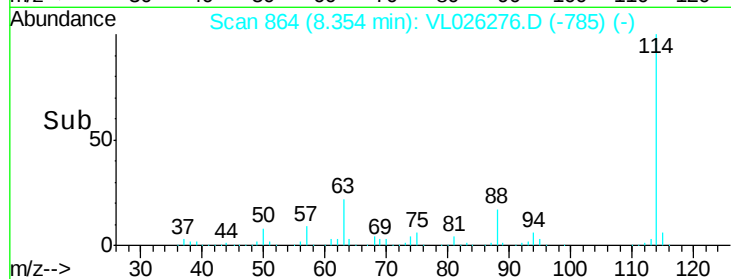
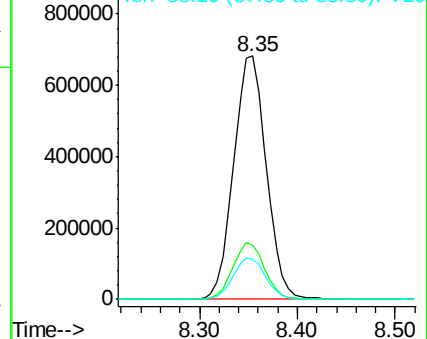
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.35 min Scan# 864
 Delta R.T. -0.02 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 1578774
 Ion Ratio Lower Upper
 114 100
 63 23.0 18.6 28.0
 88 16.9 13.4 20.2

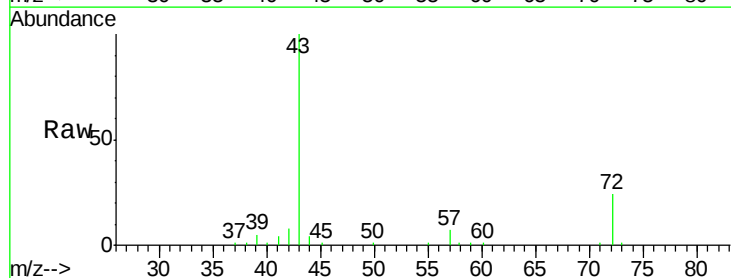


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

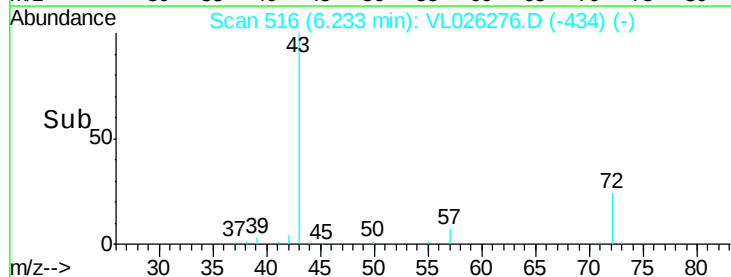
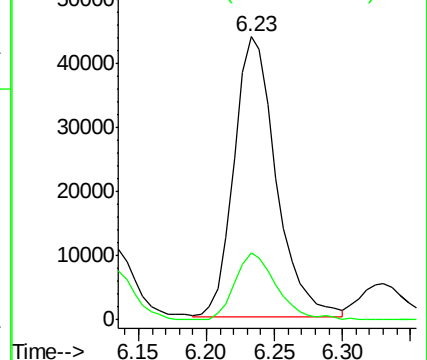


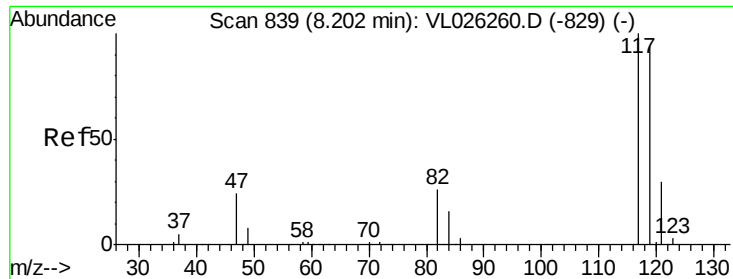
#34
 2-Butanone
 Concen: 1.00 ppbv
 RT: 6.23 min Scan# 516
 Delta R.T. 0.00 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

Tgt Ion: 43 Resp: 94885
 Ion Ratio Lower Upper
 43 100
 72 23.7 19.9 29.9



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.04 ppbv

RT: 8.19 min Scan# 837

Delta R.T. -0.01 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

ClientSampleId :

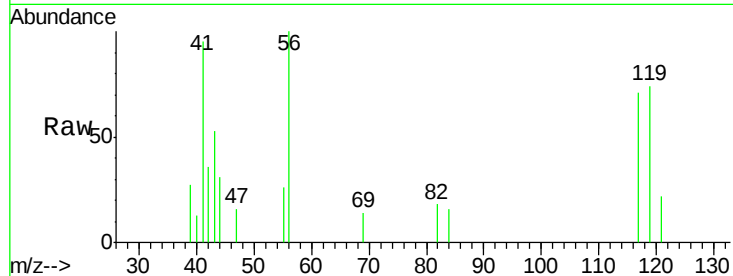
Tot Ion:117 Resp: 5053

Ion Ratio Lower Upper

117 100

119 104.6 75.2 112.8

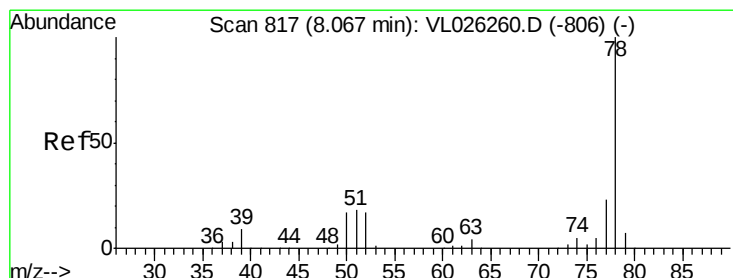
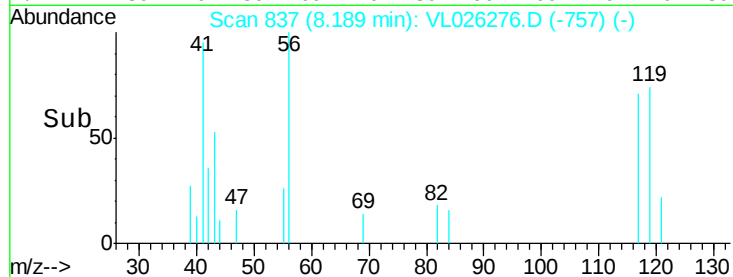
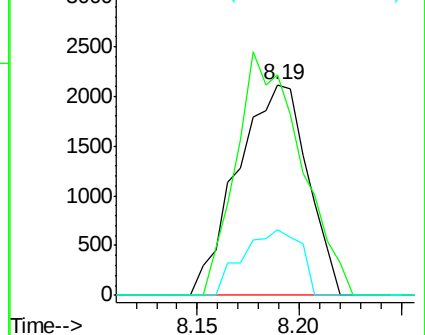
121 31.2 24.2 36.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.30 ppbv

RT: 8.04 min Scan# 813

Delta R.T. -0.02 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

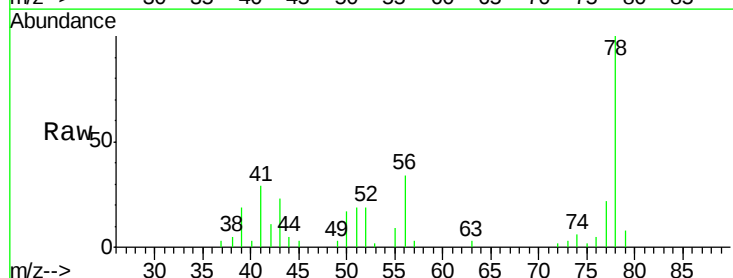
Tgt Ion: 78 Resp: 50130

Ion Ratio Lower Upper

78 100

77 22.4 18.0 27.0

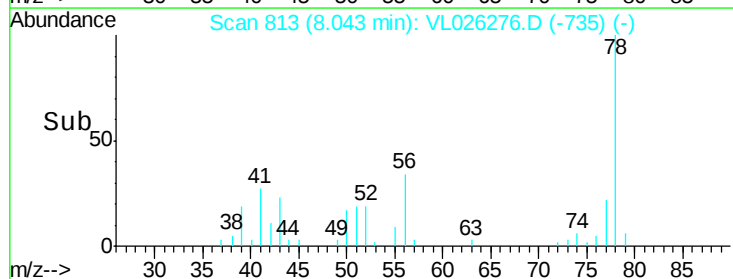
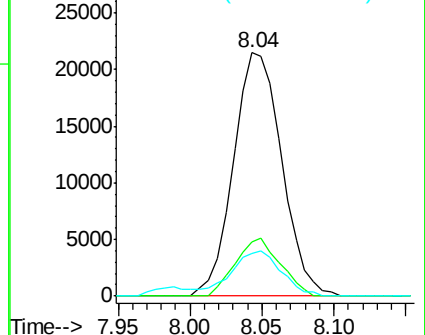
50 17.4 13.3 19.9

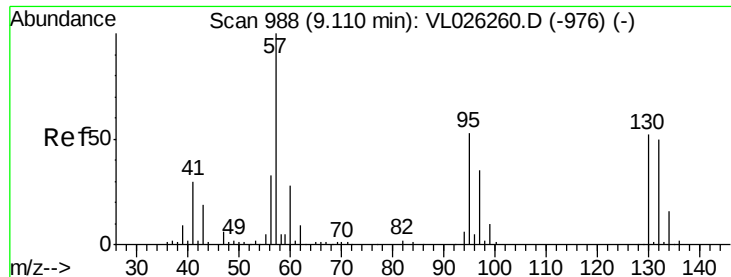


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

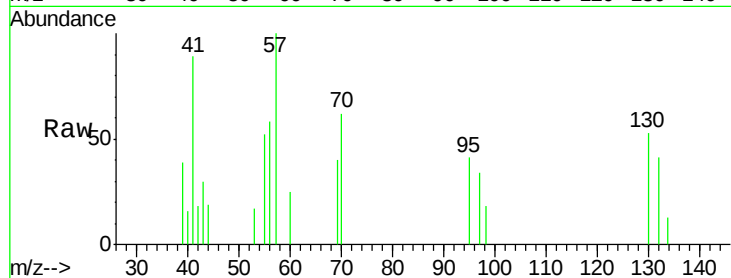




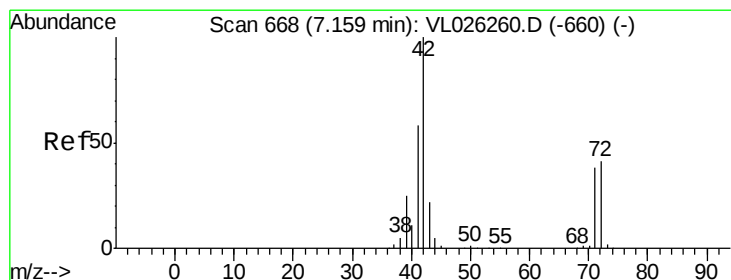
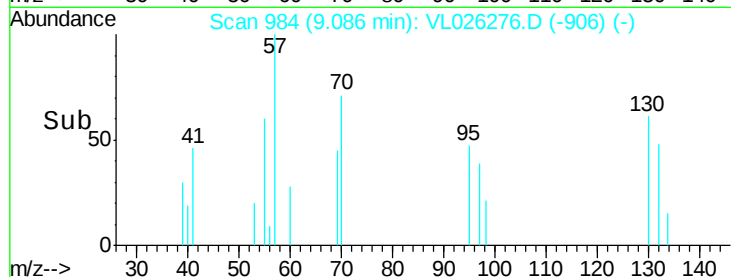
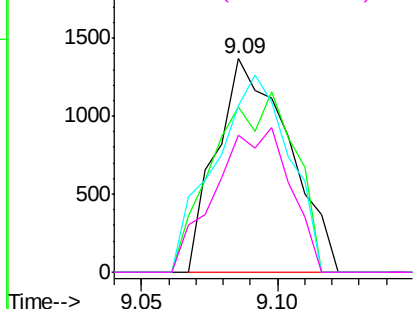
#38
 Trichloroethene
 Concen: 0.03 ppbv
 RT: 9.09 min Scan# 984
 Delta R.T. -0.02 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:130 Resp: 2511
 Ion Ratio Lower Upper
 130 100
 95 77.3 80.8 121.2#
 132 77.9 76.2 114.2
 97 64.4 53.0 79.6

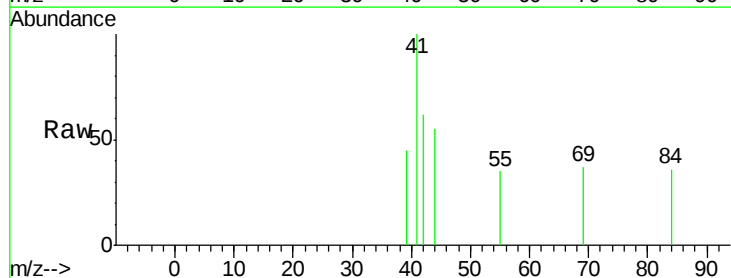


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

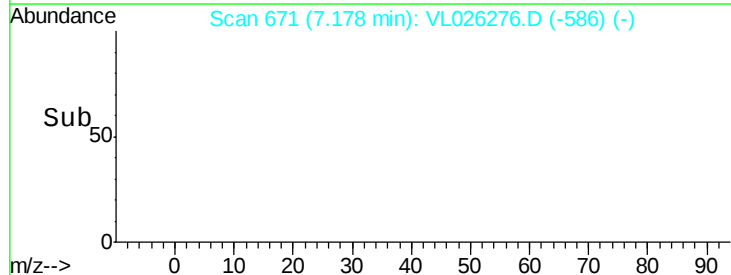
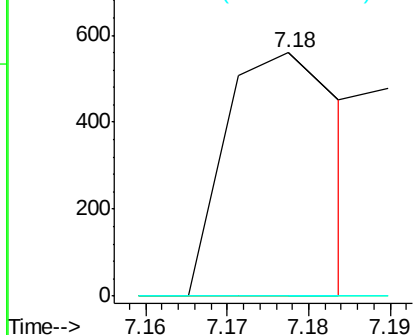


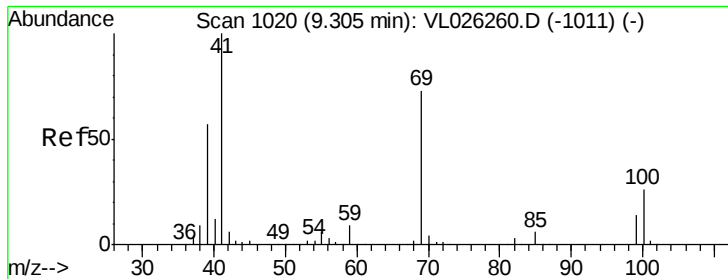
#41
 Tetrahydrofuran
 Concen: 0.01 ppbv
 RT: 7.18 min Scan# 671
 Delta R.T. 0.02 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

Tgt Ion: 42 Resp: 555
 Ion Ratio Lower Upper
 42 100
 72 0.0 32.2 48.4#
 71 0.0 30.4 45.6#



Abundance Ion 42.10 (41.80 to 42.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0
 Ion 71.10 (70.80 to 71.80): VL0

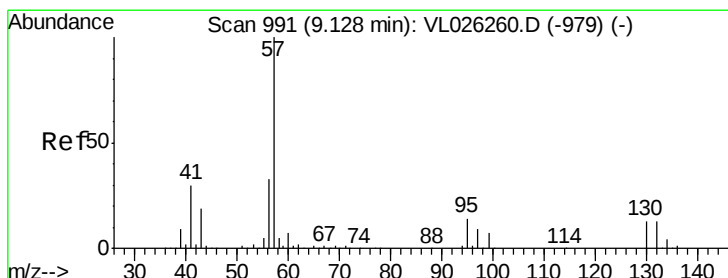
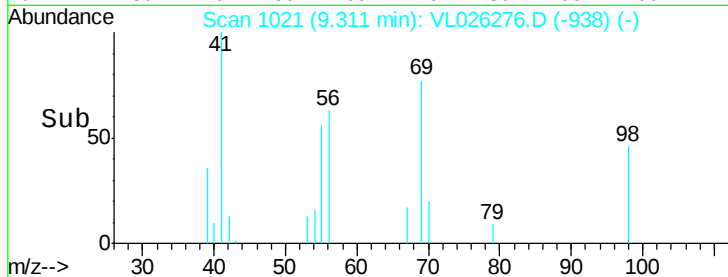
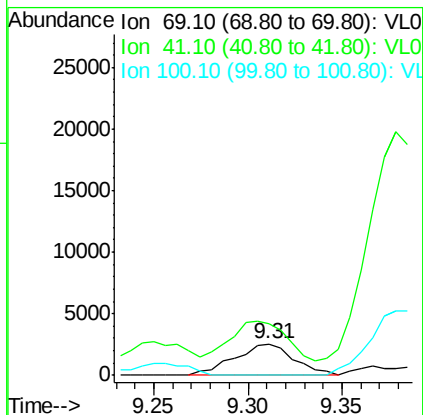
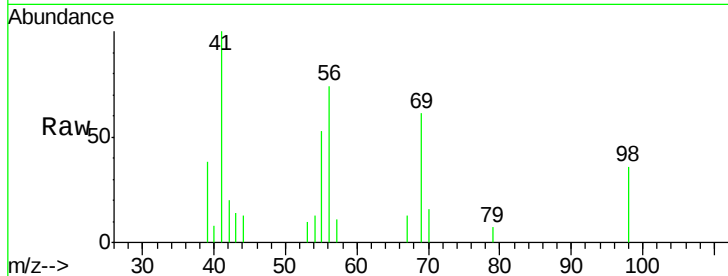




#43
Methvl Methacrvlate
Concen: 0.09 ppbv
RT: 9.31 min Scan# 1021
Delta R.T. 0.01 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

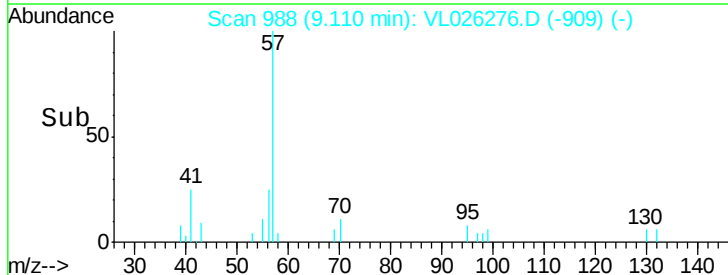
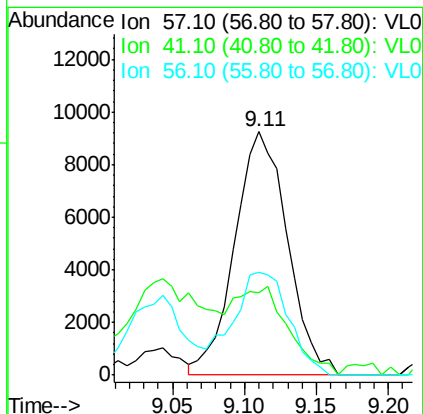
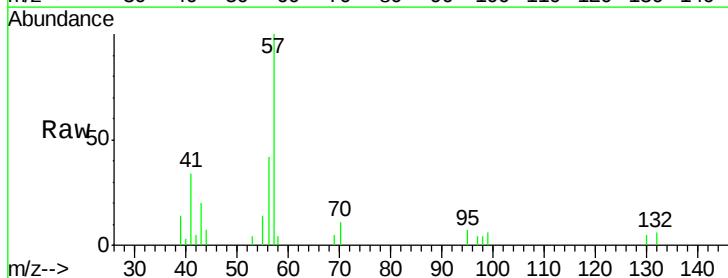
Instrument :
MSVOA_L
ClientSampleId :

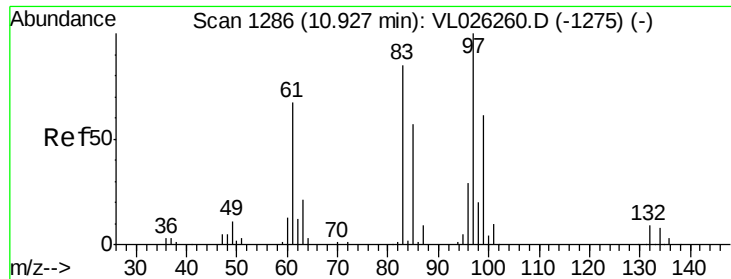
Tot Ion: 69 Resp: 5577
Ion Ratio Lower Upper
69 100
41 315.9 110.0 165.0#
100 35.6 28.6 43.0



#44
2,2,4-Trimethylpentane
Concen: 0.09 ppbv
RT: 9.11 min Scan# 988
Delta R.T. -0.02 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

Tgt Ion: 57 Resp: 23515
Ion Ratio Lower Upper
57 100
41 0.0 23.1 34.7#
56 46.0 26.3 39.5#

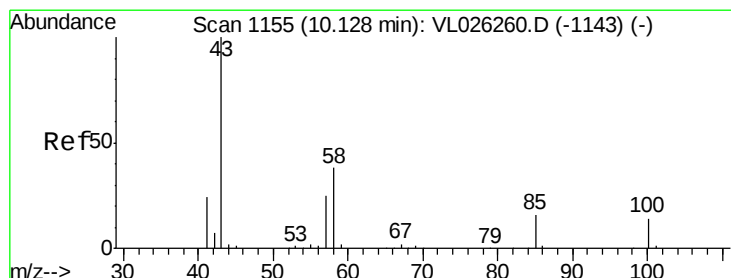
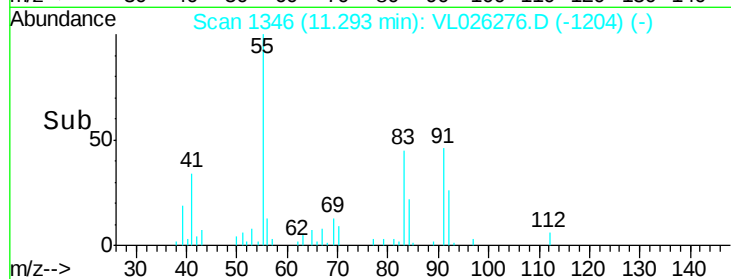
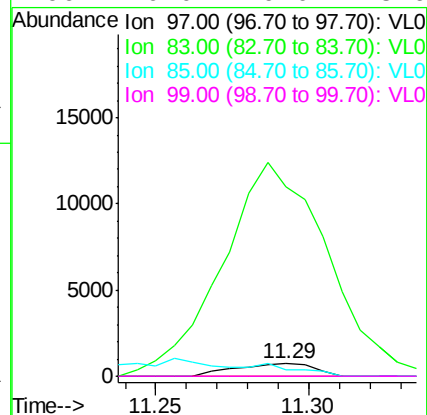
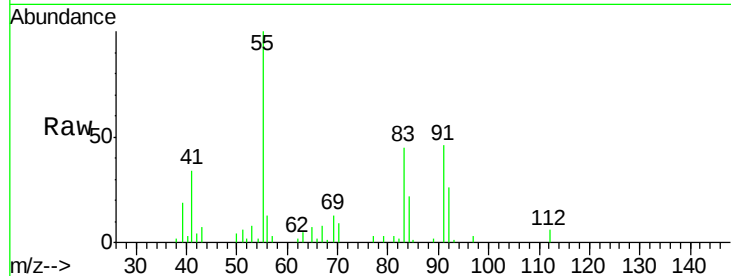




#47
 1,1,2-Trichloroethane
 Concen: 0.02 ppbv
 RT: 11.29 min Scan# 1346
 Delta R.T. 0.37 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

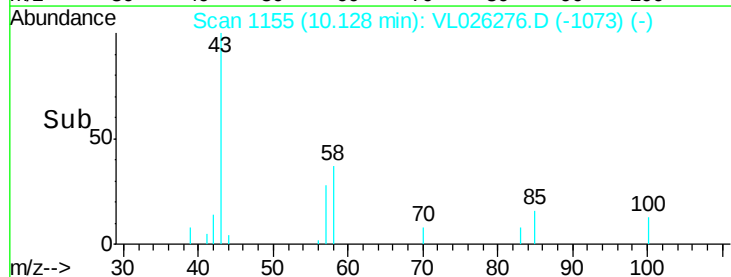
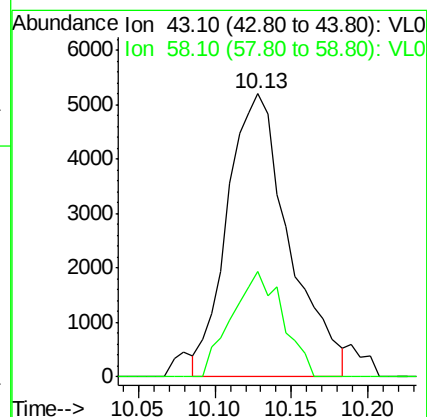
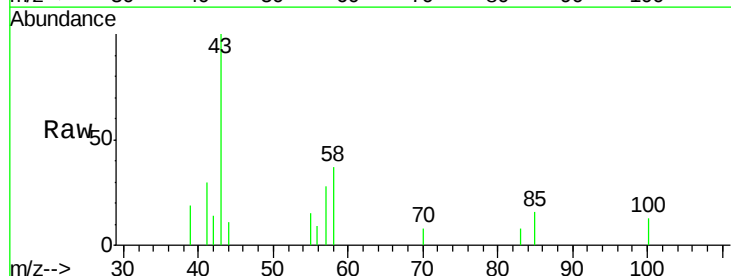
Instrument :
 MSVOA_L
 ClientSampleId :

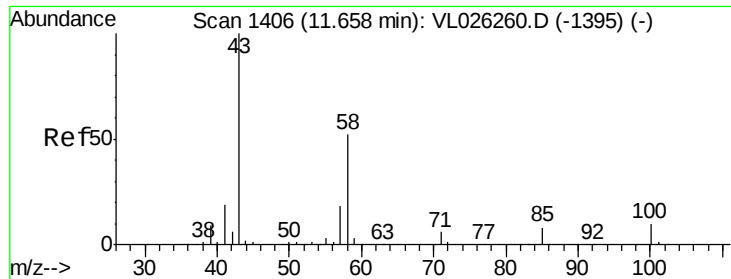
Tot Ion: 97 Resp: 1321
 Ion Ratio Lower Upper
 97 100
 83 1132.0 67.9 101.9#
 85 48.2 45.2 67.8
 99 0.0 49.0 73.6#



#50
 4-Methyl-2-Pentanone
 Concen: 0.11 ppbv
 RT: 10.13 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

Tgt Ion: 43 Resp: 14574
 Ion Ratio Lower Upper
 43 100
 58 31.0 30.5 45.7





#51

2-Hexanone

Concen: 0.34 ppbv

RT: 11.65 min Scan# 1404

Delta R.T. -0.01 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

ClientSampleId :

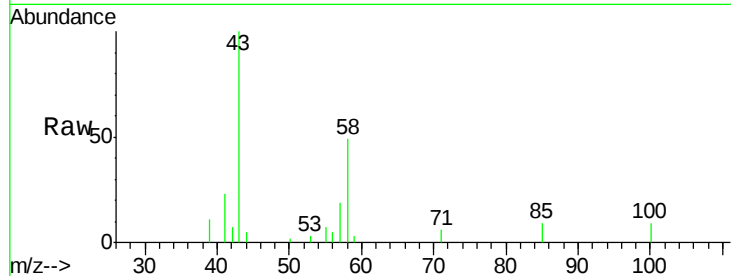
Tot Ion: 43 Resp: 40049

Ion Ratio Lower Upper

43 100

58 49.7 42.7 64.1

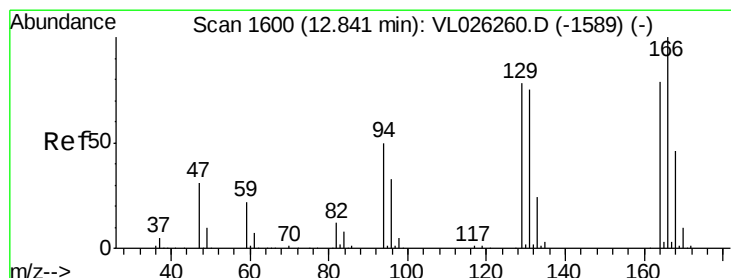
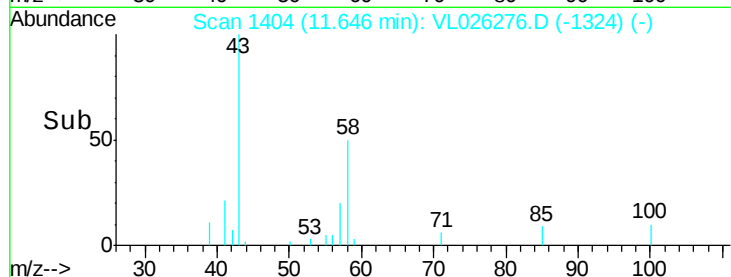
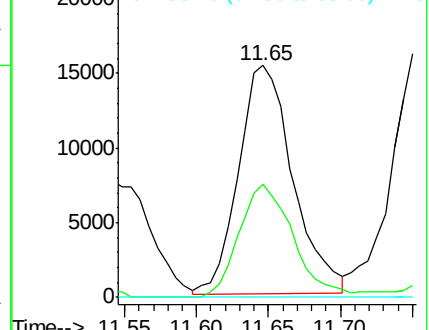
98 0.0 0.0 0.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.02 ppbv

RT: 12.82 min Scan# 1597

Delta R.T. -0.02 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Tgt Ion: 164 Resp: 1520

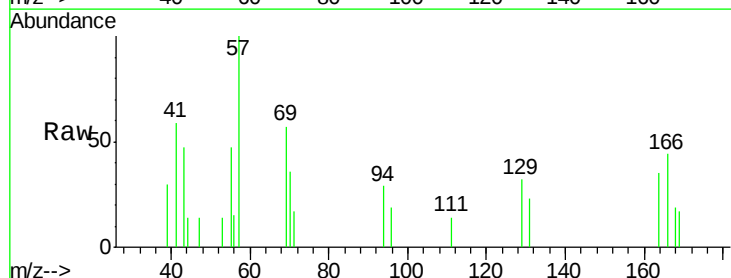
Ion Ratio Lower Upper

164 100

166 83.0 101.4 152.0#

129 91.0 78.8 118.2

131 64.2 75.6 113.4#

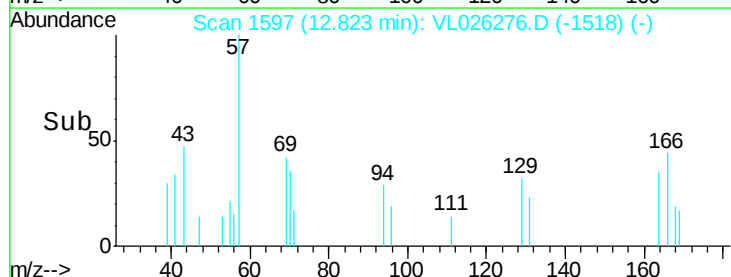
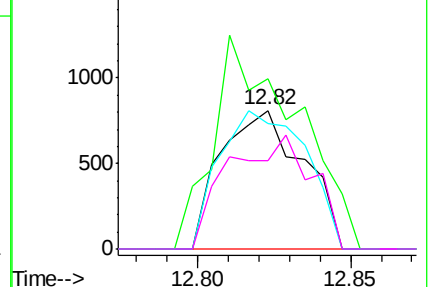


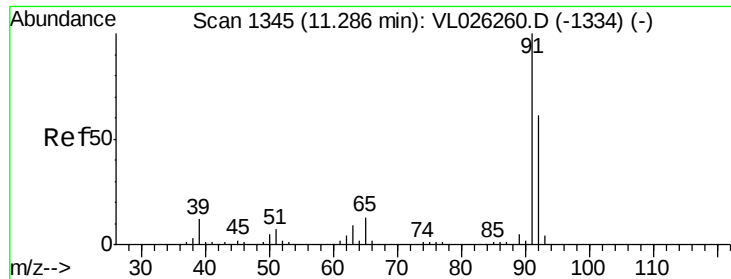
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.51 ppbv

RT: 11.26 min Scan# 1341

Delta R.T. -0.02 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

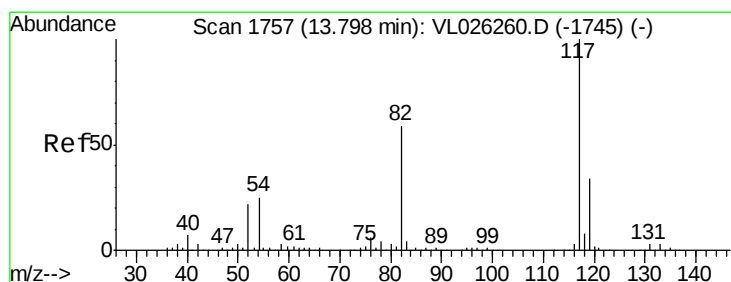
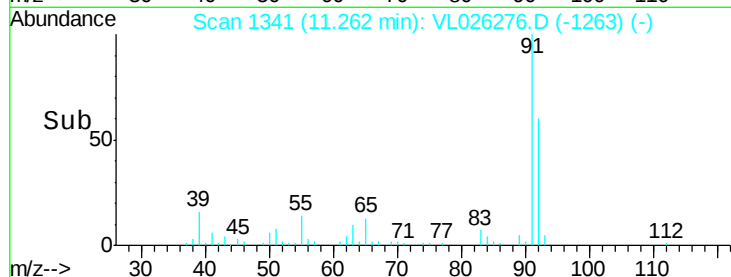
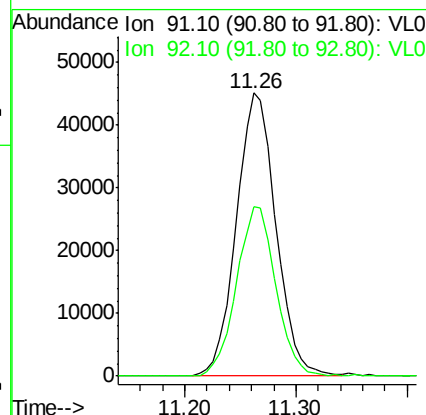
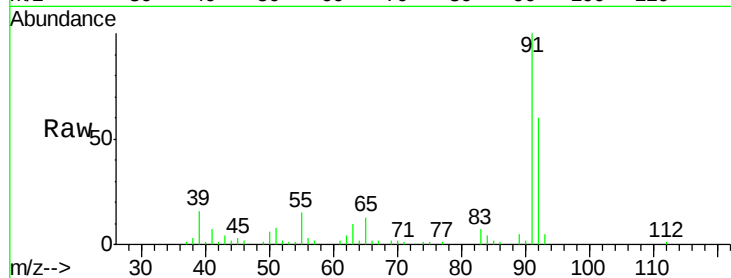
ClientSampleId :

Tot Ion: 91 Resp: 111426

Ion Ratio Lower Upper

91 100

92 59.4 48.6 73.0



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.77 min Scan# 1753

Delta R.T. -0.02 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

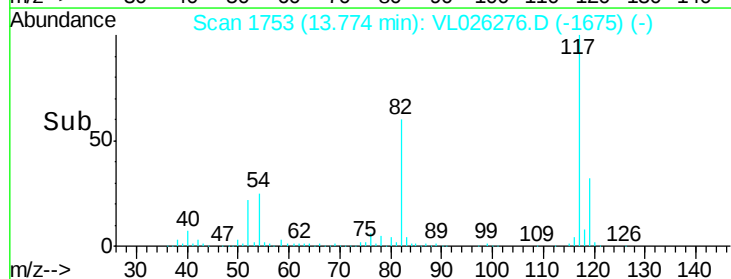
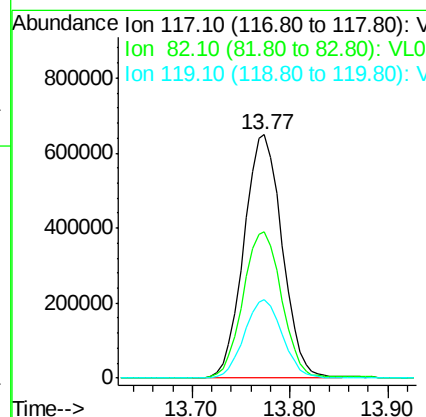
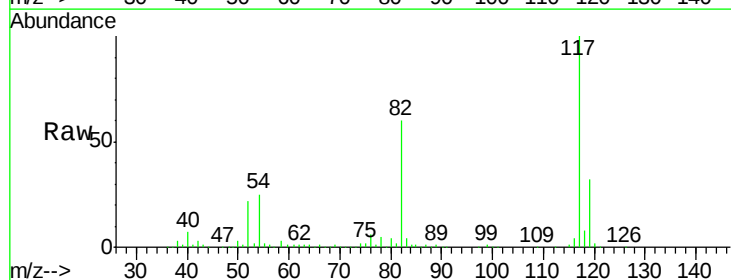
Tgt Ion: 117 Resp: 1769476

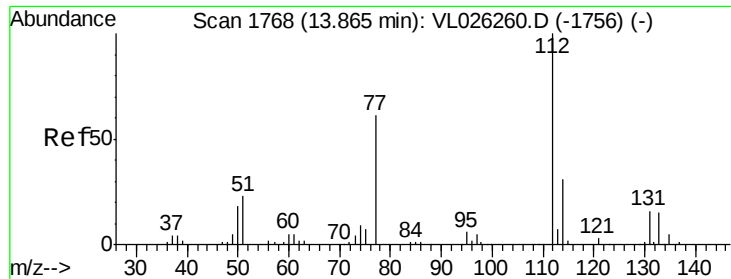
Ion Ratio Lower Upper

117 100

82 61.3 48.2 72.4

119 32.6 46.2 69.2#





#57

Chlorobenzene

Concen: 0.01 ppbv

RT: 13.87 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

ClientSampleId :

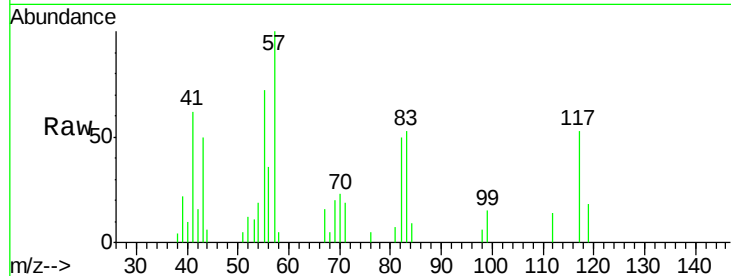
Tot Ion:112 Resp: 2626

Ion Ratio Lower Upper

112 100

77 0.0 49.4 74.0#

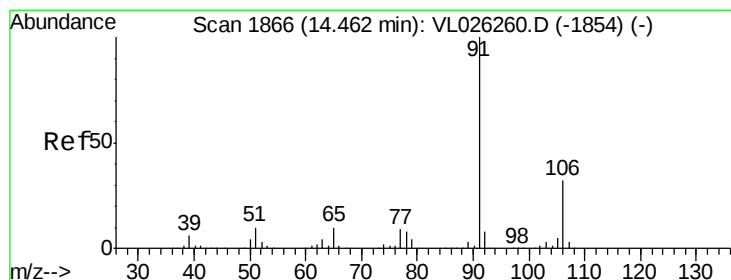
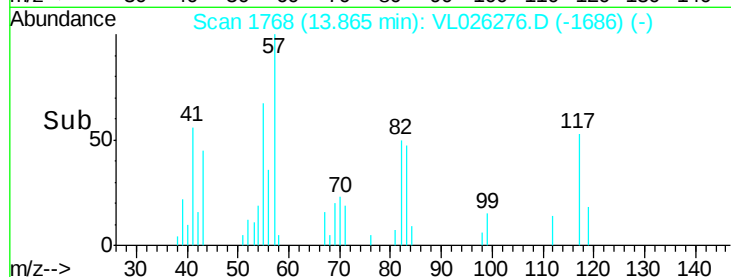
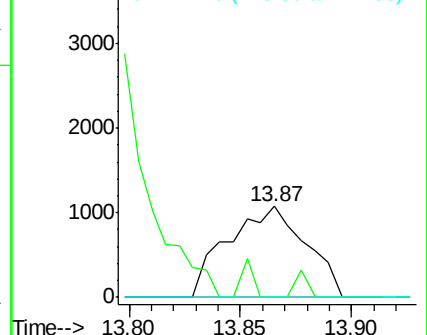
114 0.0 27.8 34.0#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.53 ppbv

RT: 14.44 min Scan# 1862

Delta R.T. -0.02 min

Lab File: VL026276.D

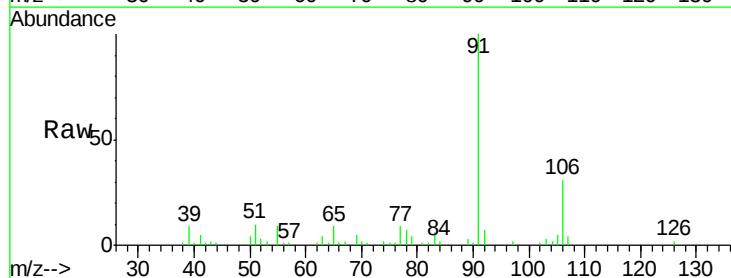
Acq: 29 Oct 2015 22:31

Tgt Ion: 91 Resp: 154536

Ion Ratio Lower Upper

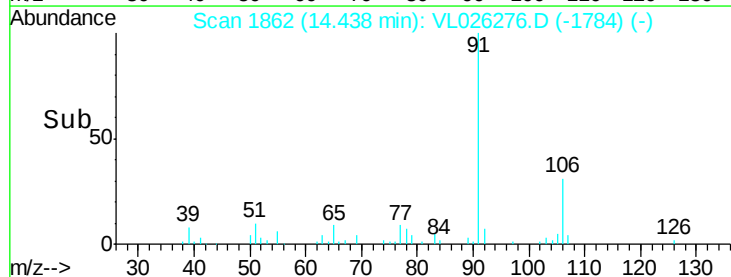
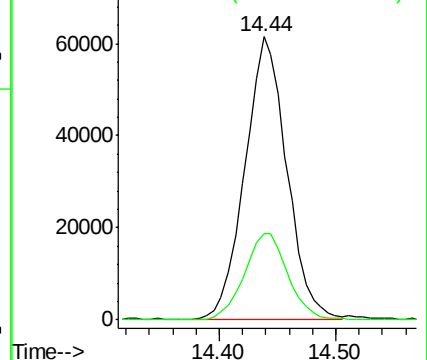
91 100

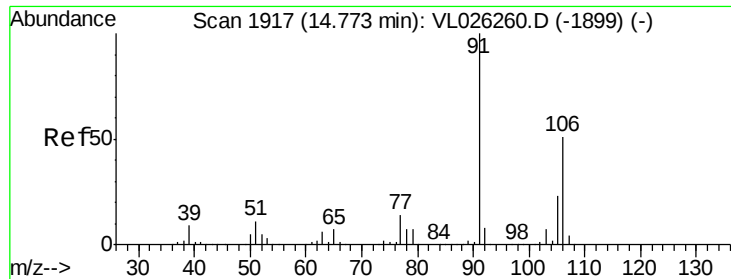
106 30.6 25.7 38.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

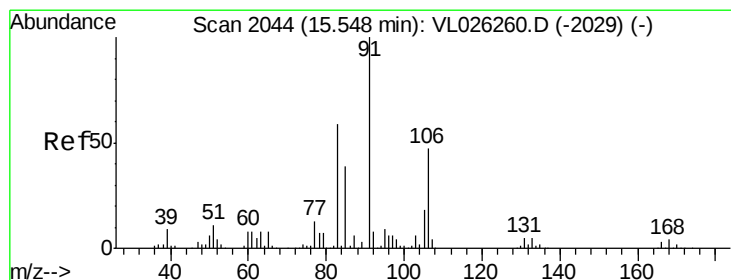
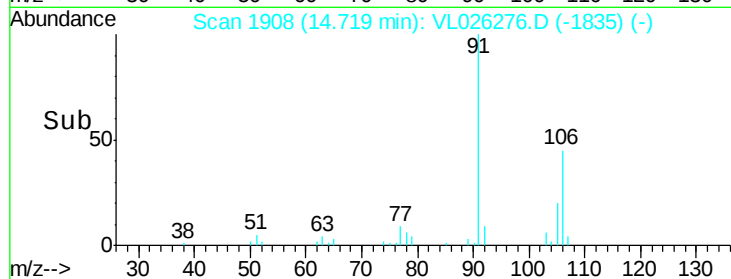
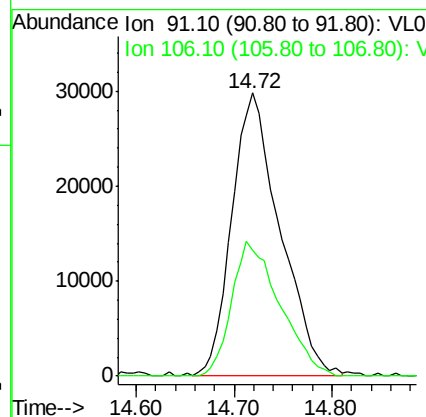
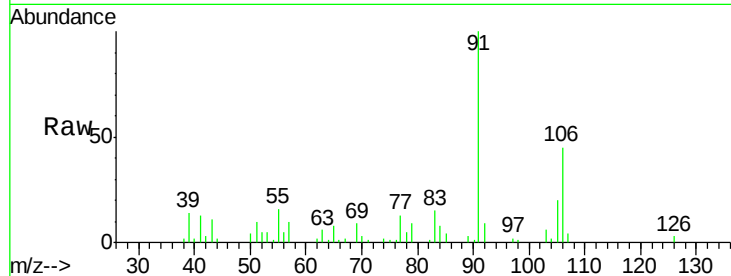




#59
m/p-Xylene
Concen: 0.44 ppbv
RT: 14.72 min Scan# 1908
Delta R.T. -0.05 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

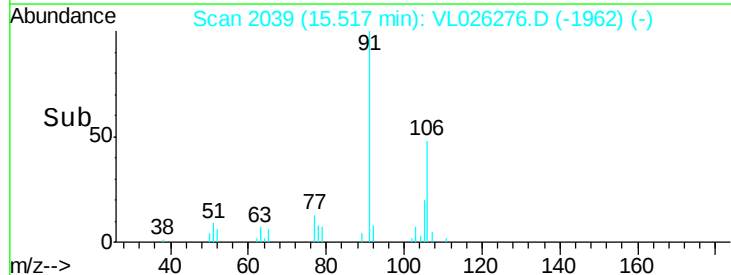
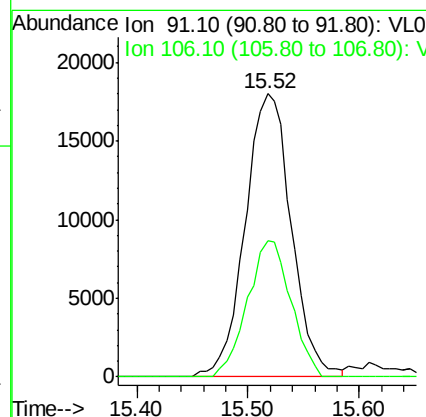
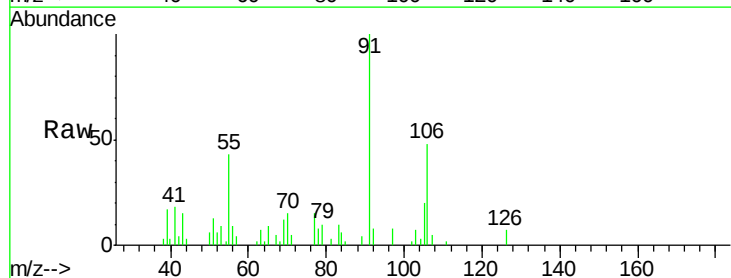
Instrument :
MSVOA_L
ClientSampleId :

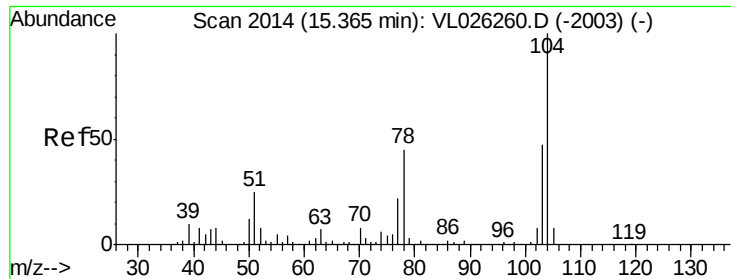
Tot Ion: 91 Resp: 102115
Ion Ratio Lower Upper
91 100
106 47.5 0.0 0.0#



#60
o-Xylene
Concen: 0.22 ppbv
RT: 15.52 min Scan# 2039
Delta R.T. -0.03 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

Tgt Ion: 91 Resp: 51840
Ion Ratio Lower Upper
91 100
106 45.1 23.6 70.8

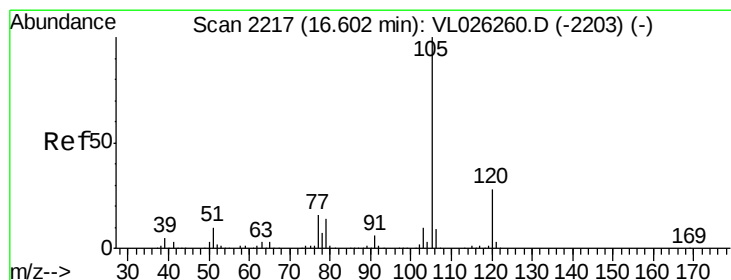
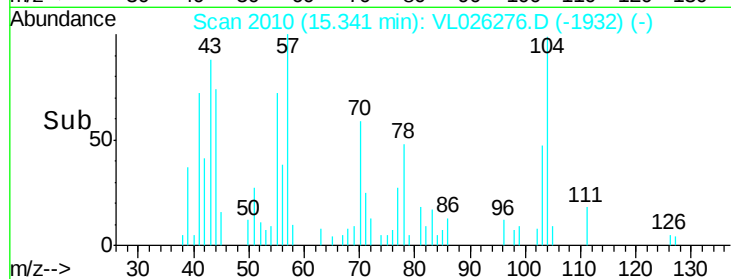
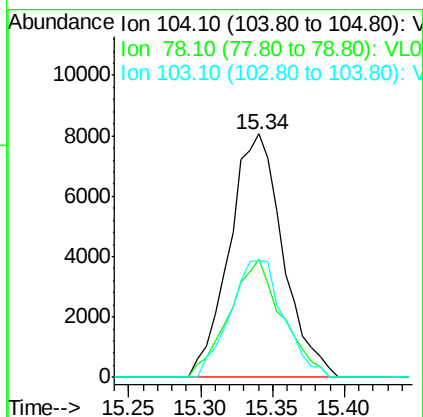
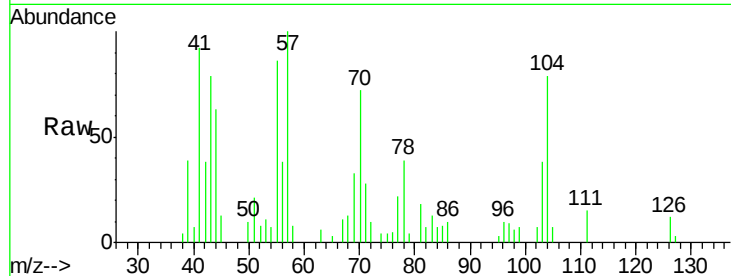




#61
Stvrene
Concen: 0.20 ppbv
RT: 15.34 min Scan# 2010
Delta R.T. -0.02 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

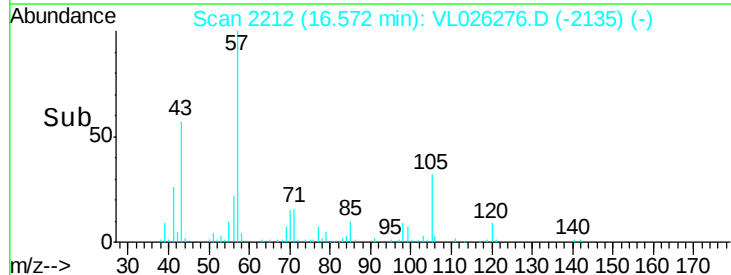
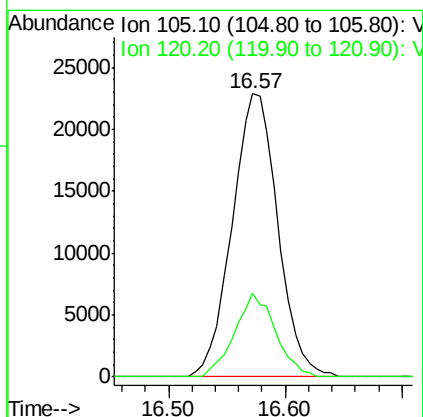
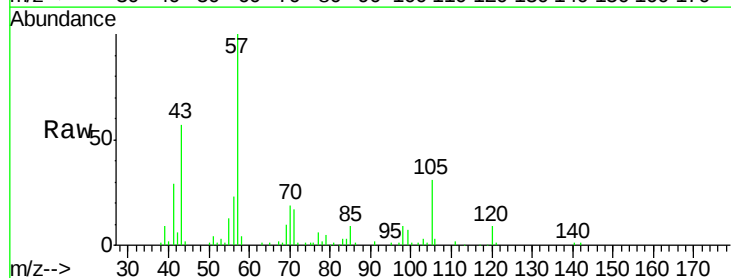
Instrument :
MSVOA_L
ClientSampleId :

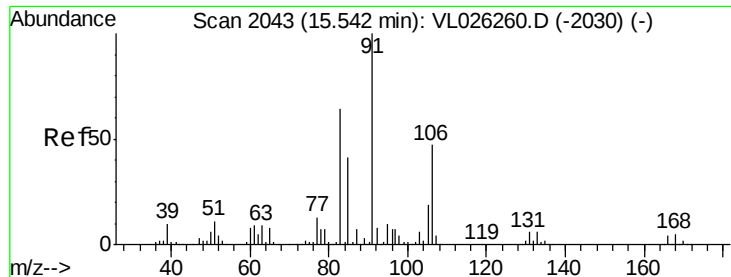
Tot Ion:104 Resp: 20792
Ion Ratio Lower Upper
104 100
78 48.0 35.5 53.3
103 48.1 37.0 55.6



#62
Isopropylbenzene
Concen: 0.19 ppbv
RT: 16.57 min Scan# 2212
Delta R.T. -0.03 min
Lab File: VL026276.D
Acq: 29 Oct 2015 22:31

Tgt Ion:105 Resp: 62329
Ion Ratio Lower Upper
105 100
120 26.4 21.7 32.5





#63

1,1,2,2-Tetrachloroethane

Concen: 0.01 ppbv

RT: 15.52 min Scan# 2040

Delta R.T. -0.02 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

ClientSampleId :

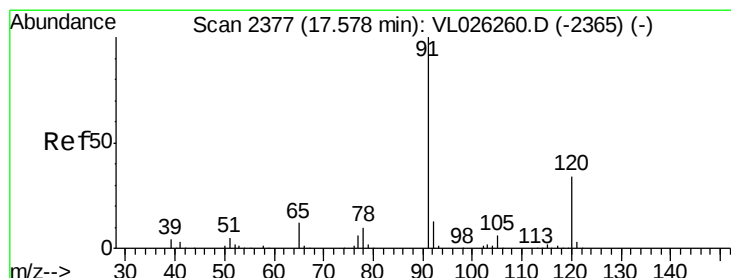
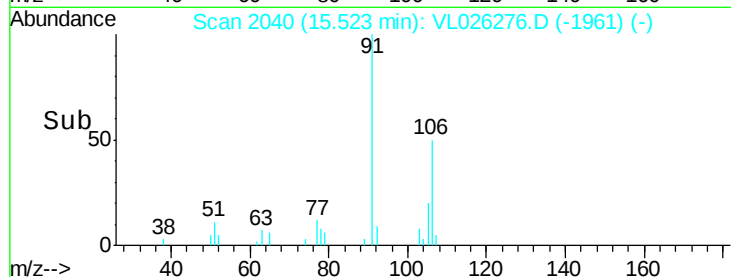
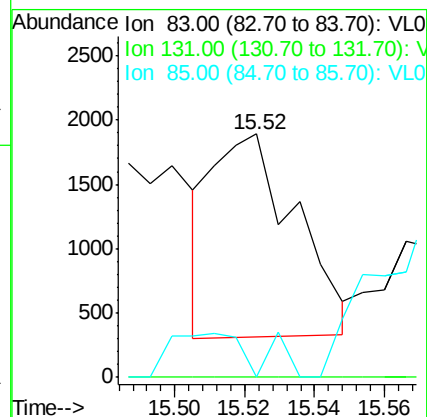
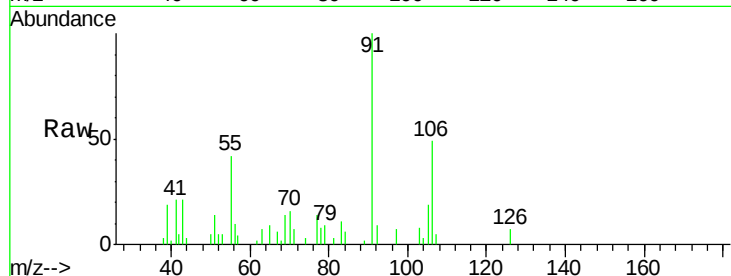
Tot Ion: 83 Resp: 2612

Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

85 0.0 32.4 97.2#



#64

n-propylbenzene

Concen: 0.04 ppbv

RT: 17.55 min Scan# 2373

Delta R.T. -0.02 min

Lab File: VL026276.D

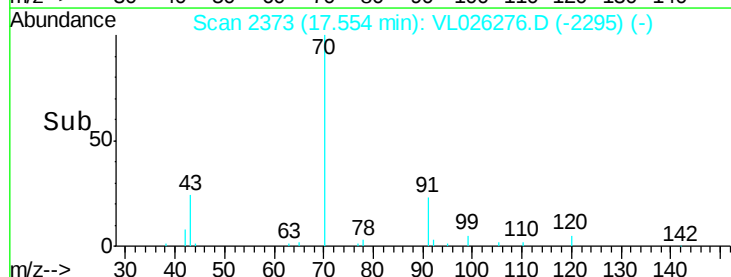
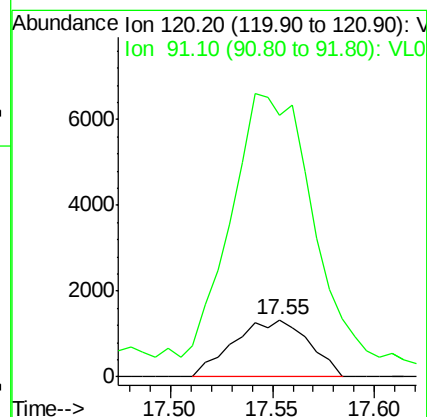
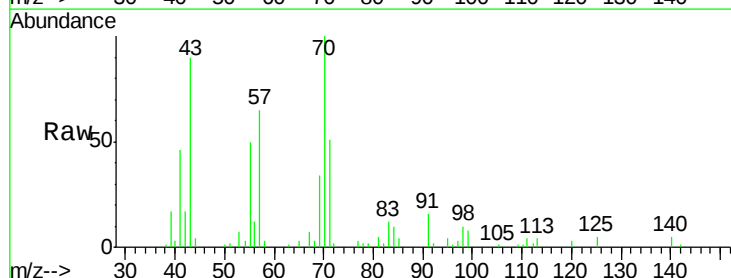
Acq: 29 Oct 2015 22:31

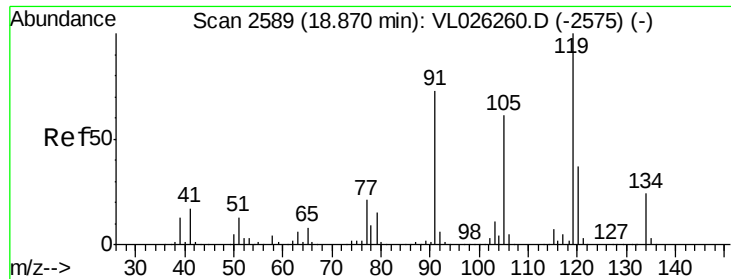
Tgt Ion: 120 Resp: 3404

Ion Ratio Lower Upper

120 100

91 0.0 340.8 511.2#





#65

tert-Butylbenzene

Concen: 0.01 ppbv

RT: 18.85 min Scan# 2586

Delta R.T. -0.02 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

ClientSampleId :

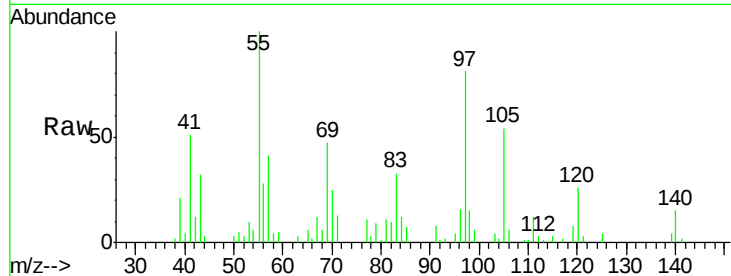
Tot Ion: 119 Resp: 3814

Ion Ratio Lower Upper

119 100

91 0.0 57.7 86.5#

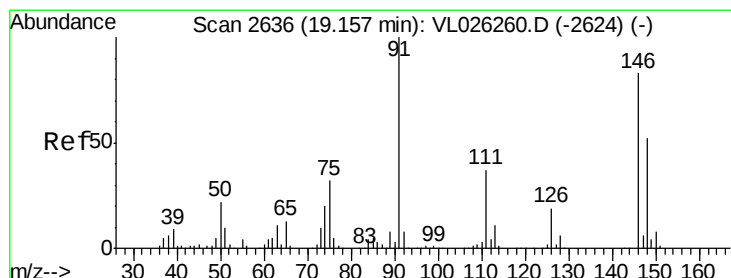
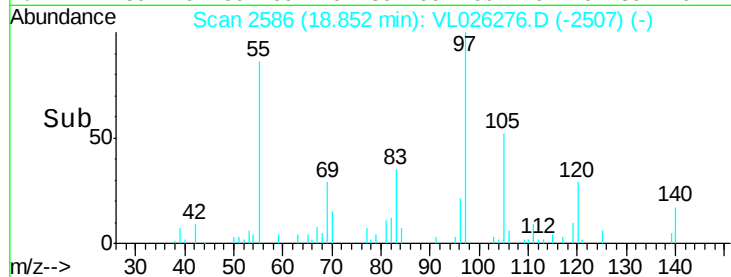
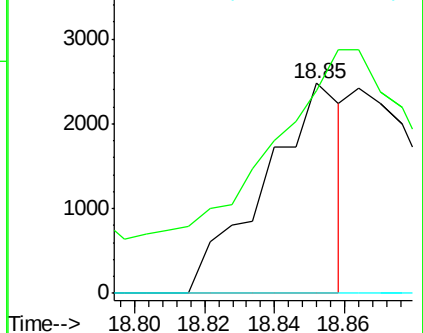
134 0.0 18.0 27.0#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.01 ppbv

RT: 19.15 min Scan# 2635

Delta R.T. -0.01 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

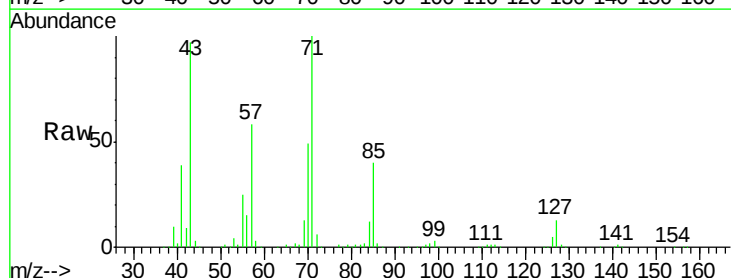
Tgt Ion: 91 Resp: 1268

Ion Ratio Lower Upper

91 100

126 8825.4 15.8 23.8#

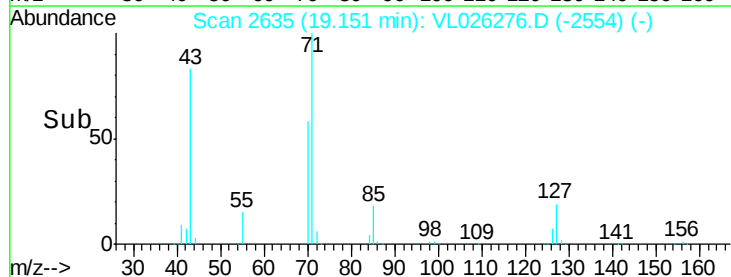
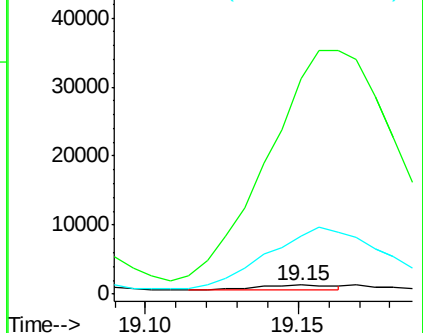
128 2300.9 5.0 7.6#

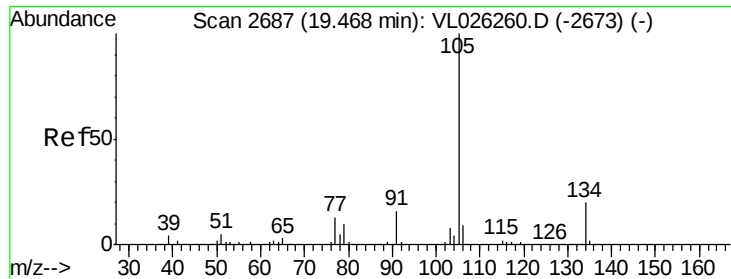


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.01 ppbv

RT: 19.44 min Scan# 2682

Delta R.T. -0.03 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

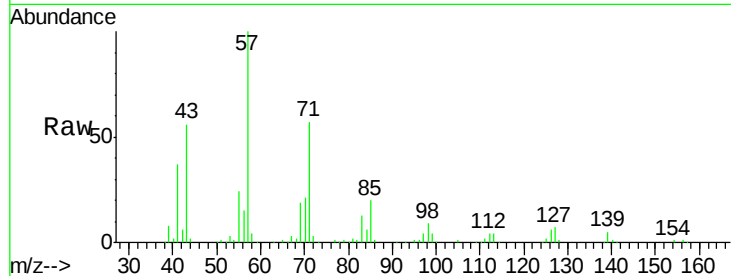
ClientSampleId :

Tot Ion: 105 Resp: 4707

Ion Ratio Lower Upper

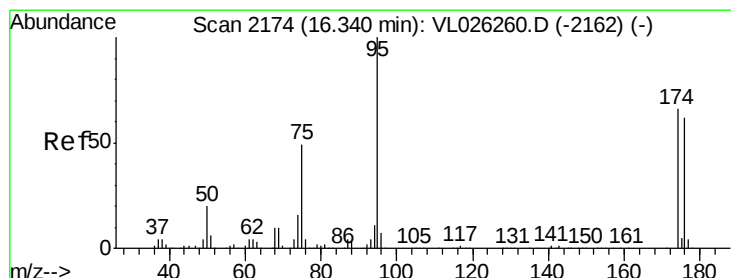
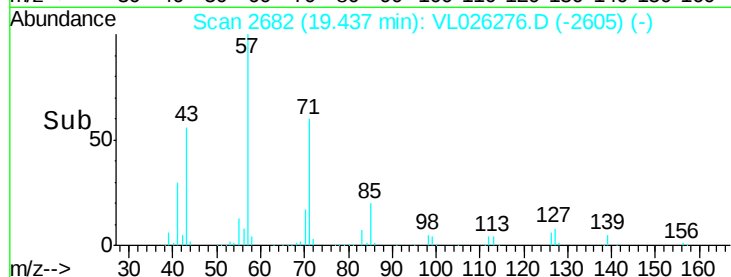
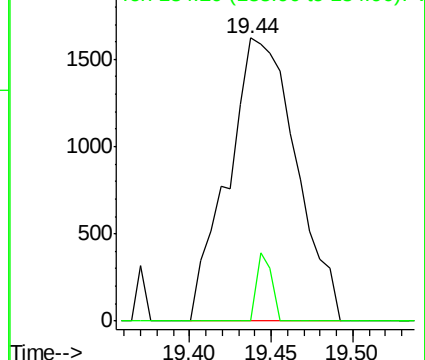
105 100

134 5.4 16.0 24.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.33 ppbv

RT: 16.32 min Scan# 2170

Delta R.T. -0.02 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

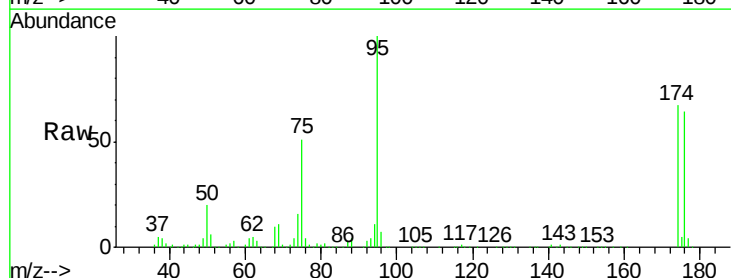
Tgt Ion: 95 Resp: 1386277

Ion Ratio Lower Upper

95 100

174 66.2 52.9 79.3

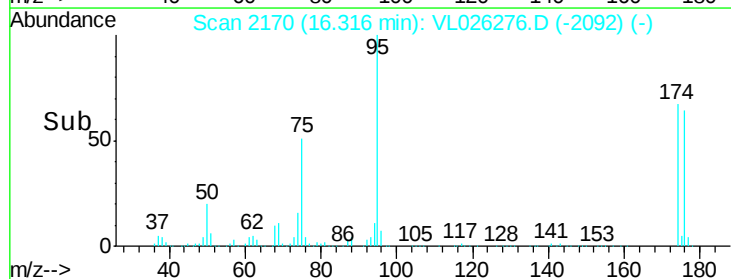
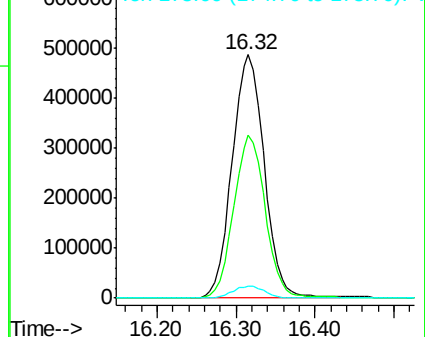
175 4.9 3.8 5.8

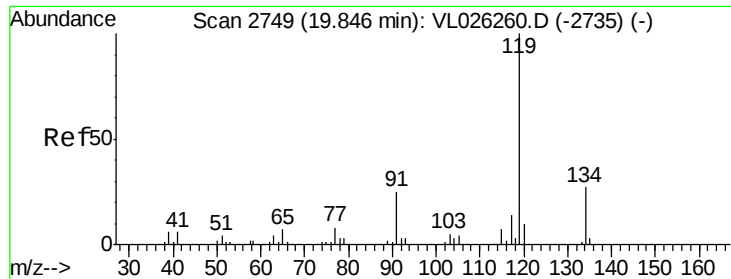


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

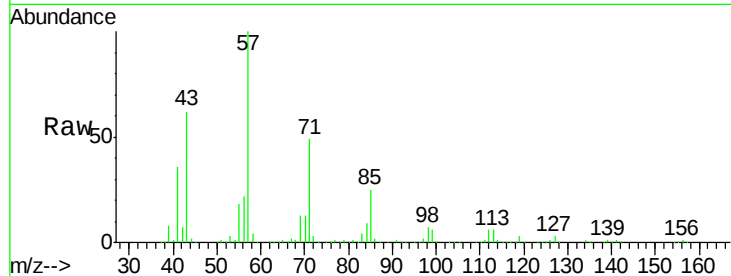




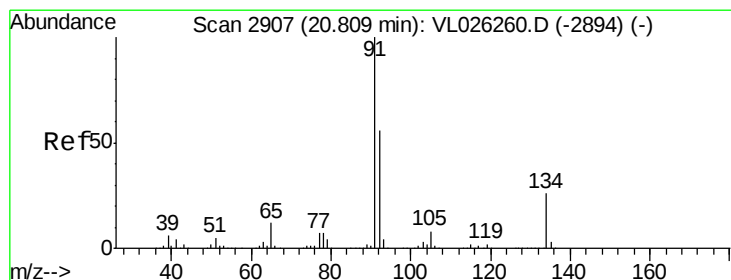
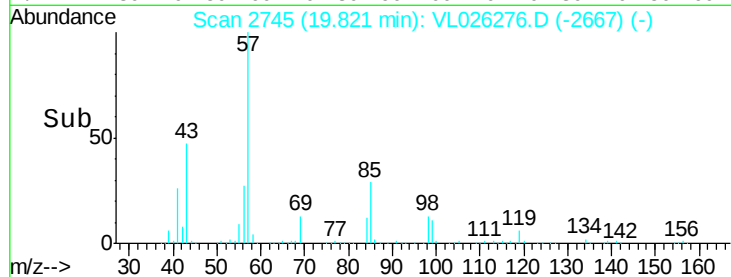
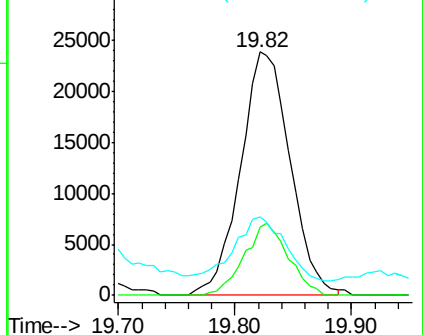
#69
 p-Isopropyltoluene
 Concen: 0.21 ppbv
 RT: 19.82 min Scan# 2745
 Delta R.T. -0.02 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	119	Resp	70607
Ion Ratio	100	Lower	Upper
119	100		
134	26.3	21.3	31.9
91	29.9	19.6	29.4#

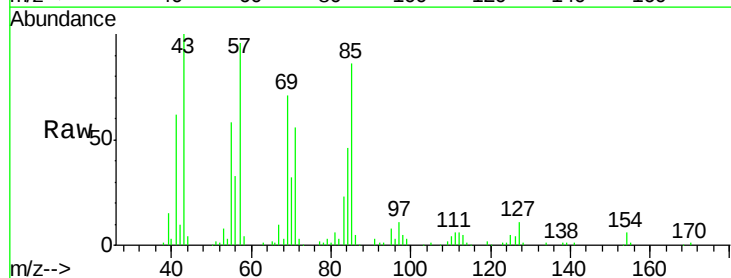


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

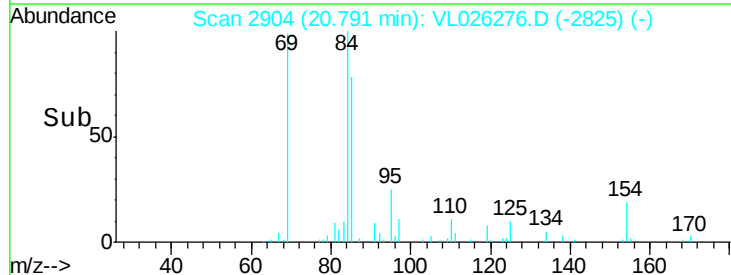
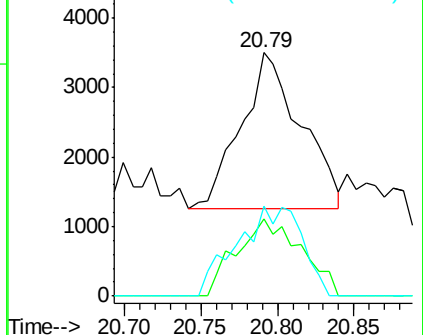


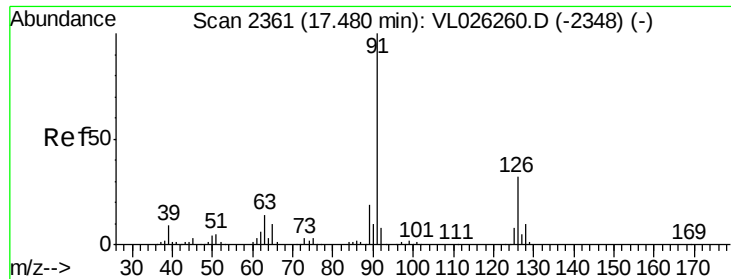
#70
 n-Butylbenzene
 Concen: 0.02 ppbv
 RT: 20.79 min Scan# 2904
 Delta R.T. -0.02 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

Tgt Ion	91	Resp	6097
Ion Ratio	100	Lower	Upper
91	100		
92	53.0	44.9	67.3
134	62.8	20.5	30.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V

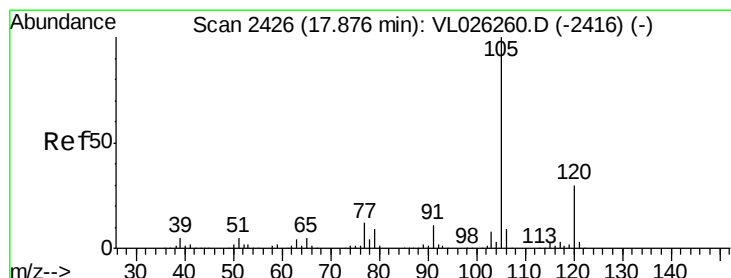
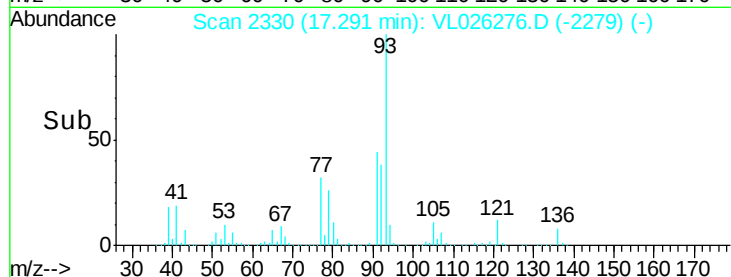
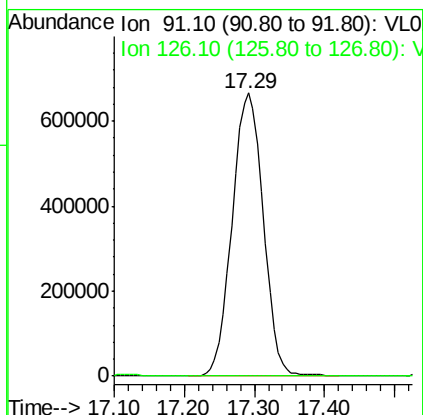
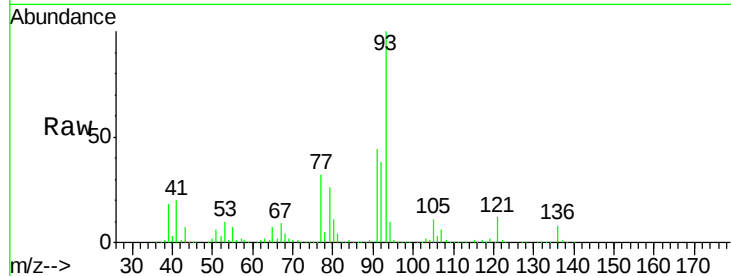




#71
 2-Chlorotoluene
 Concen: 8.50 ppbv
 RT: 17.29 min Scan# 2330
 Delta R.T. -0.19 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

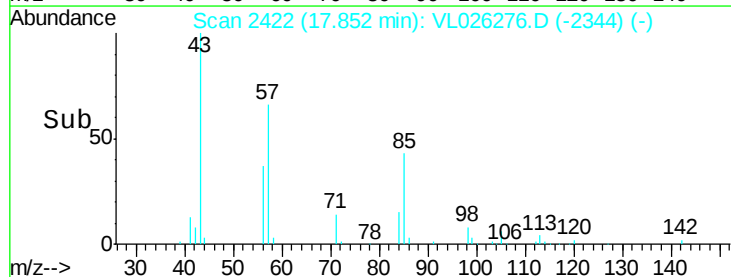
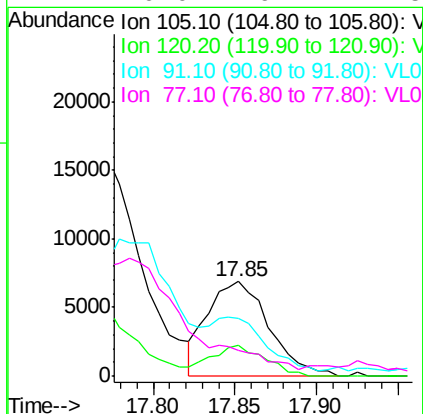
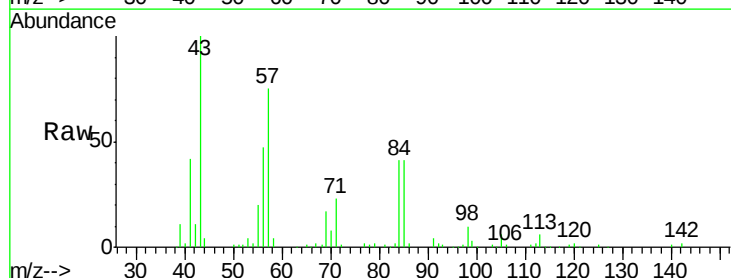
Instrument :
 MSVOA_L
 ClientSampleId :

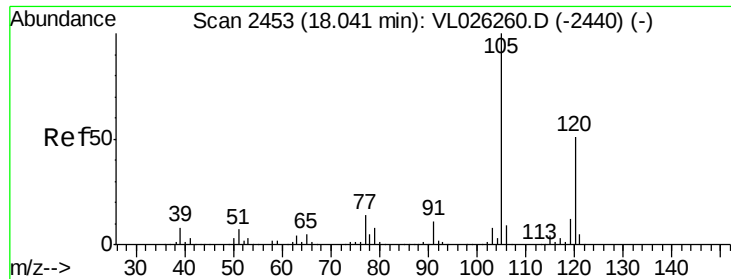
Tot Ion: 91 Resp: 2049476
 Ion Ratio Lower Upper
 91 100
 126 0.7 12.8 51.0#



#72
 4-Ethyltoluene
 Concen: 0.07 ppbv
 RT: 17.85 min Scan# 2422
 Delta R.T. -0.02 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

Tgt Ion:105 Resp: 18075
 Ion Ratio Lower Upper
 105 100
 120 28.8 25.1 37.7
 91 0.0 9.1 13.7#
 77 0.0 9.7 14.5#

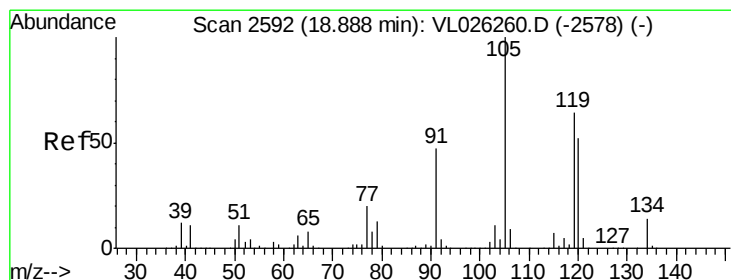
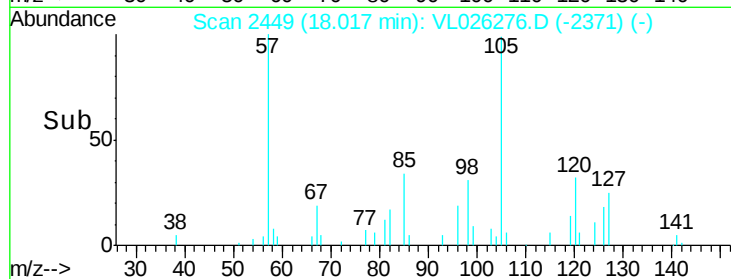
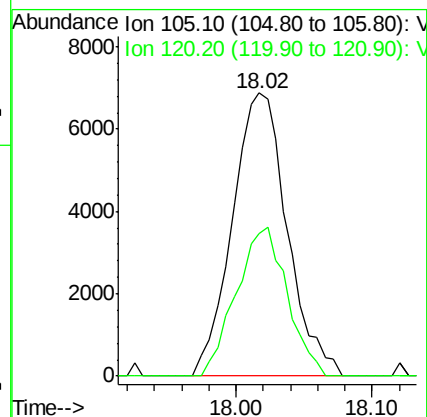
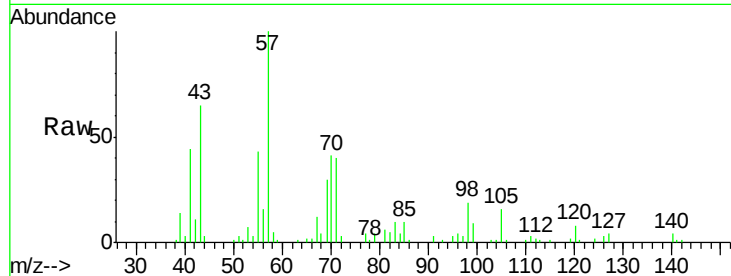




#73
 1,3,5-Trimethylbenzene
 Concen: 0.08 ppbv
 RT: 18.02 min Scan# 2449
 Delta R.T. -0.02 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

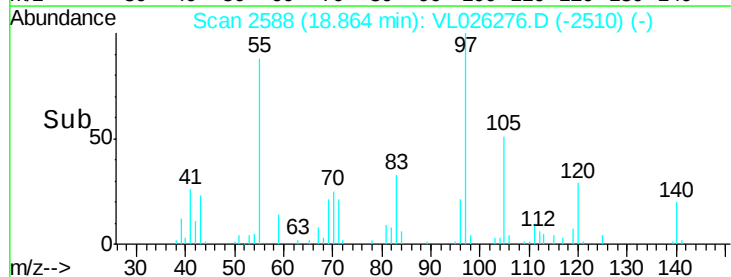
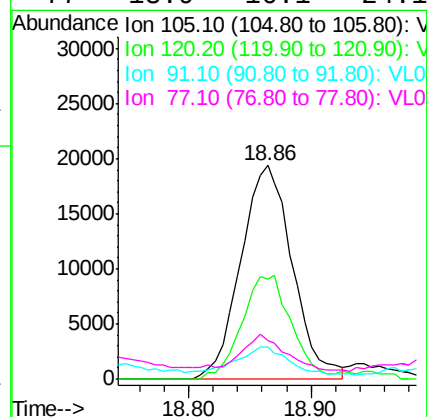
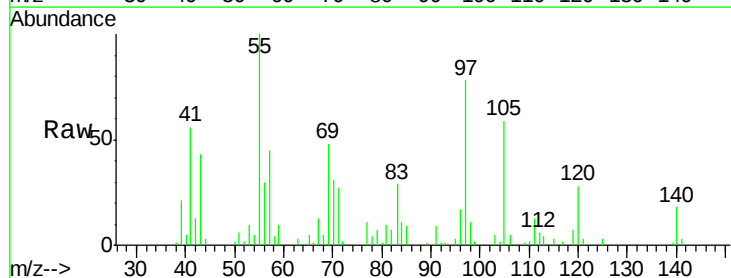
Instrument :
 MSVOA_L
 ClientSampleId :

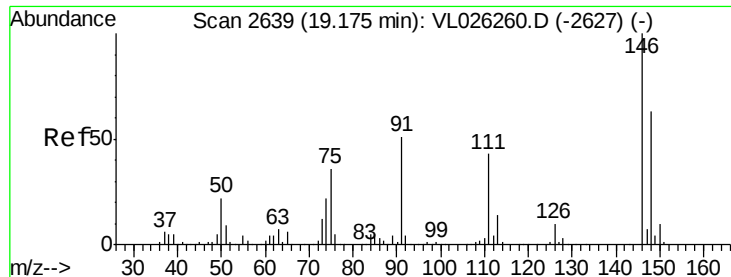
Tot Ion:105 Resp: 19365
 Ion Ratio Lower Upper
 105 100
 120 50.5 40.6 61.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.21 ppbv
 RT: 18.86 min Scan# 2588
 Delta R.T. -0.02 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

Tgt Ion:105 Resp: 56855
 Ion Ratio Lower Upper
 105 100
 120 46.6 41.2 61.8
 91 12.5 37.8 56.8#
 77 13.9 16.1 24.1#

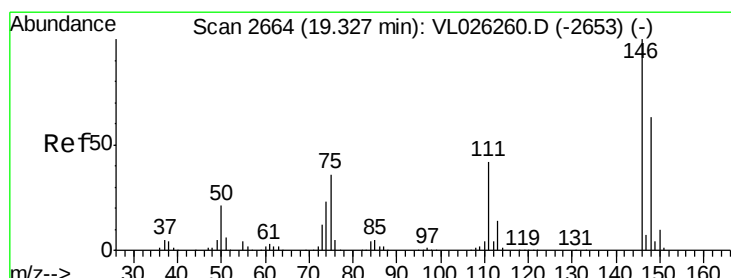
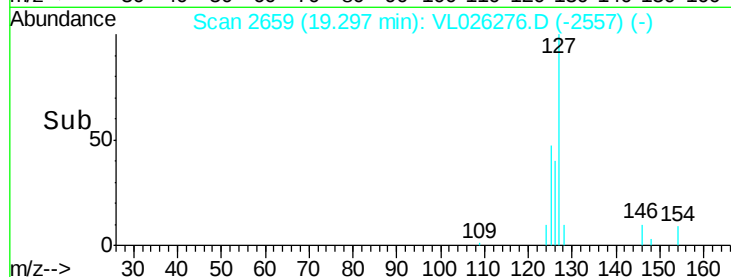
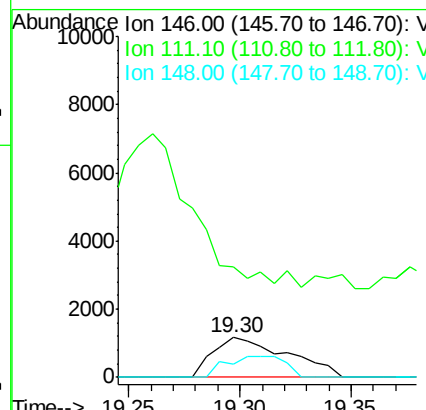
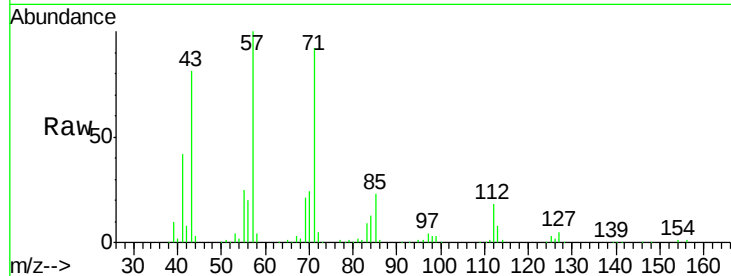




#75
 1,3-Dichlorobenzene
 Concen: 0.02 ppbv
 RT: 19.30 min Scan# 2659
 Delta R.T. 0.12 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

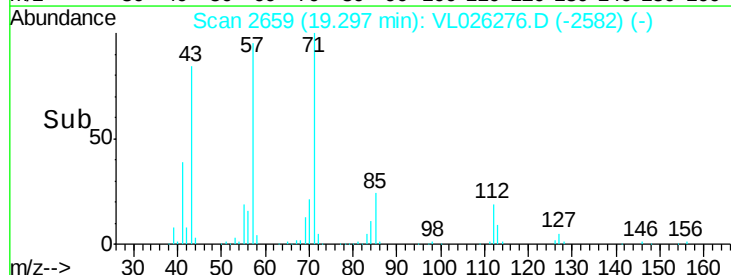
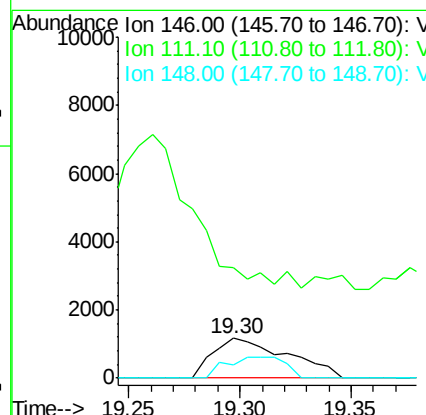
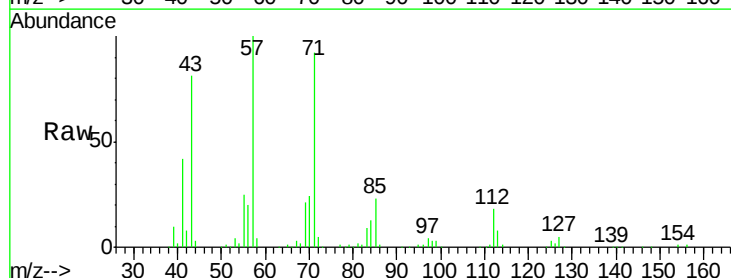
Instrument :
 MSVOA_L
 ClientSampled :

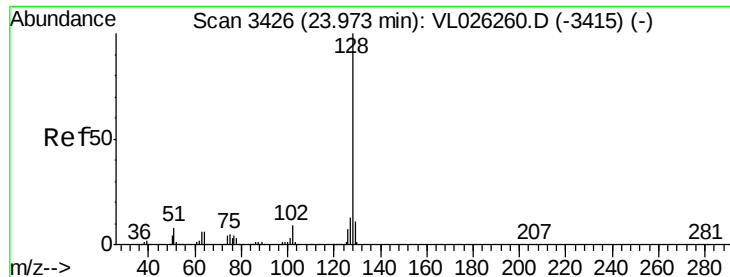
Tot Ion:146 Resp: 2720
 Ion Ratio Lower Upper
 146 100
 111 787.4 21.9 65.5#
 148 42.1 31.8 95.3



#76
 1,4-Dichlorobenzene
 Concen: 0.02 ppbv
 RT: 19.30 min Scan# 2659
 Delta R.T. -0.03 min
 Lab File: VL026276.D
 Acq: 29 Oct 2015 22:31

Tgt Ion:146 Resp: 2720
 Ion Ratio Lower Upper
 146 100
 111 737.1 21.1 63.4#
 148 42.1 31.8 95.3





#79

Naphthalene

Concen: 0.21 ppbv

RT: 23.97 min Scan# 3425

Delta R.T. -0.01 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Instrument :

MSVOA_L

ClientSampleId :

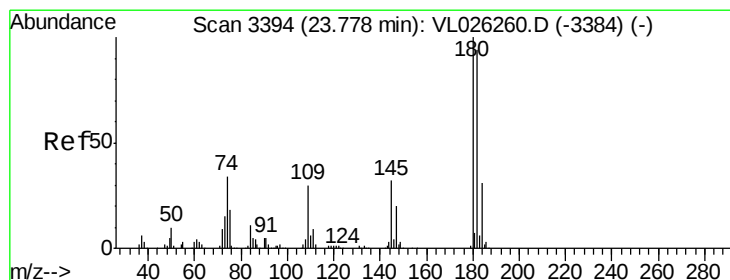
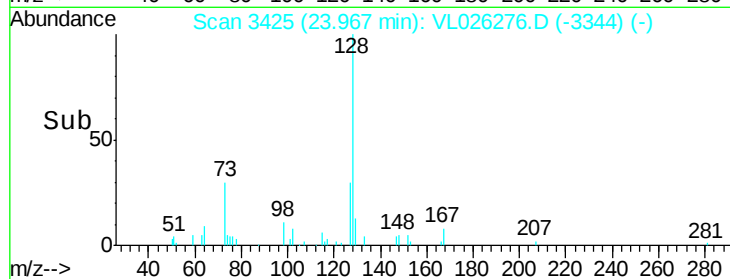
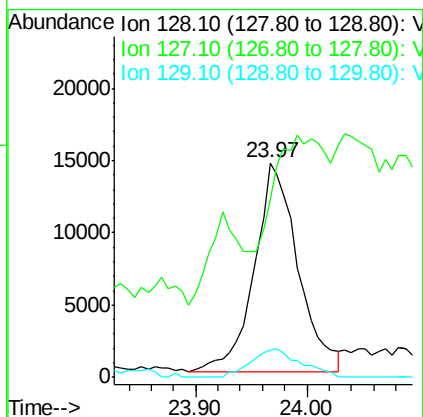
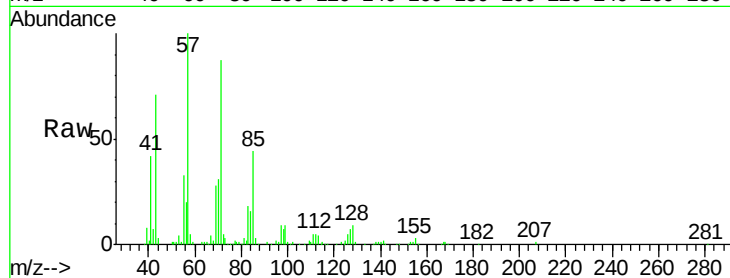
Tot Ion:128 Resp: 39495

Ion Ratio Lower Upper

128 100

127 51.0 10.1 15.1#

129 13.1 8.8 13.2



#81

1,2,4-Trichlorobenzene

Concen: 0.01 ppbv

RT: 23.78 min Scan# 3395

Delta R.T. 0.01 min

Lab File: VL026276.D

Acq: 29 Oct 2015 22:31

Tgt Ion:180 Resp: 1112

Ion Ratio Lower Upper

180 100

182 110.0 76.0 114.0

184 326.6 24.2 36.4#

