

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026201.D
 Acq On : 10 Oct 2015 7:35
 Operator : SY/MD
 Sample : G3925-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 12 02:09:57 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 16:23:14 2015
 QLast Update : Fri Oct 09 16:23:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	520457	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	8.31	114	1616116	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.72	117	1789131	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.27	95	1368653	9.97	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.64	85	31343	0.32	ppbv	95
3) Chlorodifluoromethane	3.53	51	12329856	202.83	ppbv #	59
4) Chloromethane	3.74	50	13432	0.39	ppbv	96
6) Bromomethane	4.40	94	935	0.04	ppbv #	3
9) Propene	3.60	41	21414	0.77	ppbv #	77
10) Heptane	9.34	43	25782	0.27	ppbv	96
11) Trichlorofluoromethane	4.68	101	54198	0.57	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.29	101	5175	0.08	ppbv	91
13) Ethanol	4.31	45	269907	65.75	ppbv	93
15) Acetone	4.59	43	1106620	16.45	ppbv	98
16) 1,3-Butadiene	3.93	39	17952	0.58	ppbv #	13
17) tert-Butyl alcohol	5.13	59	26290	0.65	ppbv #	94
19) Isopropyl Alcohol	4.75	45	117631	4.49	ppbv #	94
20) Methylene Chloride	5.14	84	10689	0.37	ppbv #	85
23) Vinyl Acetate	5.98	43	60861	0.51	ppbv #	79
25) Ethyl Acetate	6.67	43	51156	0.39	ppbv #	92
26) Hexane	6.64	57	21777	0.35	ppbv #	76
27) Carbon Disulfide	5.38	76	16634	0.22	ppbv #	60
29) Chloroform	6.73	83	106317	1.14	ppbv	99
30) Cyclohexane	8.26	84	4800	0.08	ppbv #	1
31) cis-1,2-Dichloroethene	6.67	61	5051	0.09	ppbv #	21
34) 2-Butanone	6.20	43	63840	0.71	ppbv	96
35) Carbon Tetrachloride	8.15	117	8824	0.09	ppbv #	81
36) Benzene	8.01	78	22500	0.15	ppbv #	91
41) Tetrahydrofuran	7.07	42	7900	0.16	ppbv #	36
42) Bromodichloromethane	9.00	83	7433	0.07	ppbv #	81
44) 2,2,4-Trimethylpentane	9.07	57	10565	0.04	ppbv #	32
50) 4-Methyl-2-Pentanone	10.08	43	15541	0.13	ppbv #	81
51) 2-Hexanone	11.60	43	12700	0.12	ppbv #	90
52) Tetrachloroethene	12.77	164	18927	0.25	ppbv	91
53) Toluene	11.22	91	385617	1.94	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.85	131	59300	0.83	ppbv #	9
58) Ethyl Benzene	14.39	91	44845	0.17	ppbv	96
59) m/p-Xylene	14.67	91	146807	0.70	ppbv	98
60) o-Xylene	15.46	91	57426	0.26	ppbv	99
61) Styrene	15.29	104	17485	0.20	ppbv	99
62) Isopropylbenzene	16.52	105	10994	0.04	ppbv	95
64) n-propylbenzene	17.50	120	8636	0.11	ppbv	100
65) tert-Butylbenzene	18.82	119	37042	0.15	ppbv #	75
66) Benzyl Chloride	19.08	91	9053	0.12	ppbv #	14
69) p-Isopropyltoluene	19.77	119	74816	0.26	ppbv #	84

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 ALS Vial : 1 Sample Multiplier: 1

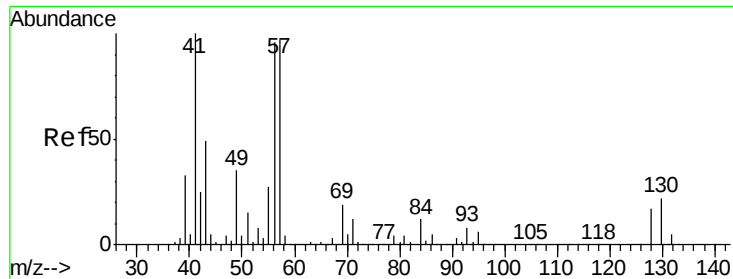
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 12 02:09:57 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 16:23:14 2015
 QLast Update : Fri Oct 09 16:23:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

70) n-Butylbenzene	20.74	91	48809	0.18	ppbv #	12
71) 2-Chlorotoluene	17.50	91	38216	0.18	ppbv #	43
72) 4-Ethyltoluene	17.80	105	48308	0.21	ppbv	96
73) 1,3,5-Trimethylbenzene	17.97	105	82767	0.38	ppbv	100
74) 1,2,4-Trimethylbenzene	18.81	105	289827	1.26	ppbv #	70
75) 1,3-Dichlorobenzene	19.25	146	43496	0.30	ppbv	96
76) 1,4-Dichlorobenzene	19.25	146	43496	0.29	ppbv	95
77) 1,2-Dichlorobenzene	20.01	146	5709	0.04	ppbv #	50
79) Naphthalene	23.92	128	564292	3.91	ppbv	99
80) Naphthalene, 2-methyl-	26.03	142	1420	0.04	ppbv #	73
81) 1,2,4-Trichlorobenzene	23.22	180	80602	1.13	ppbv #	12

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

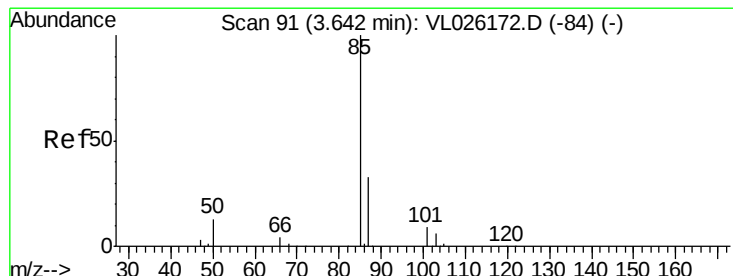
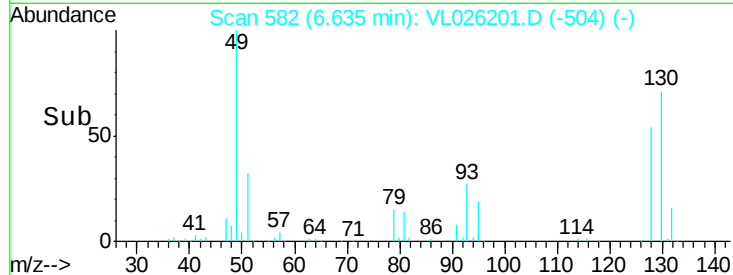
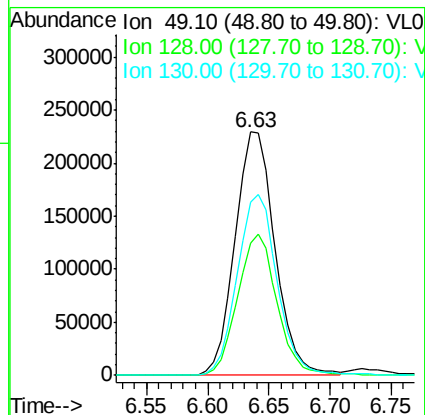
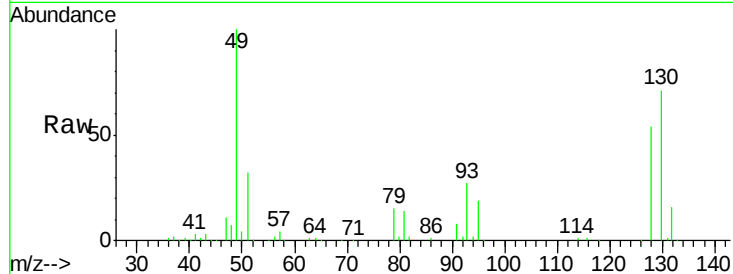


#1

Bromochloromethane
Concen: 10.00 ppbv
RT: 6.63 min Scan# 582
Delta R.T. -0.02 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

Instrument :
MSVOA_L
ClientSampleId :

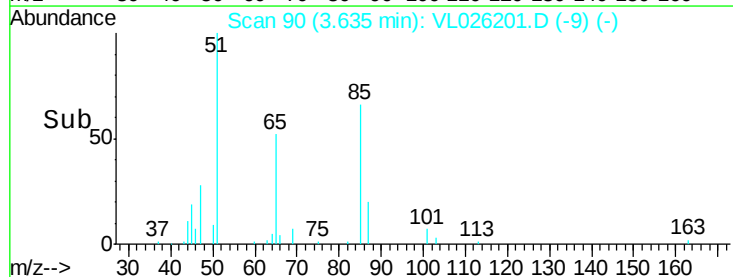
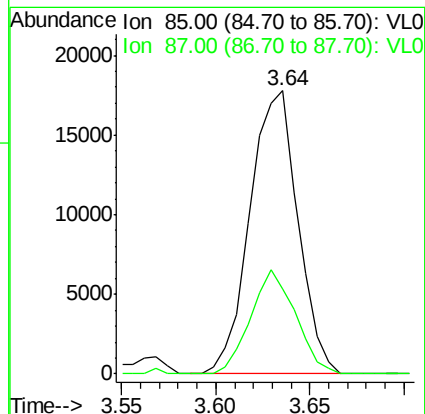
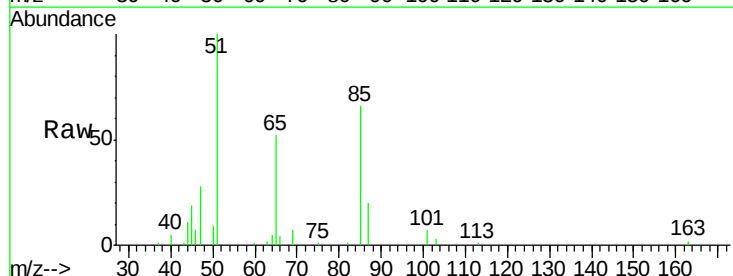
Tot Ion: 49 Resp: 520457
Ion Ratio Lower Upper
49 100
128 57.7 26.3 78.8
130 74.9 34.2 102.5

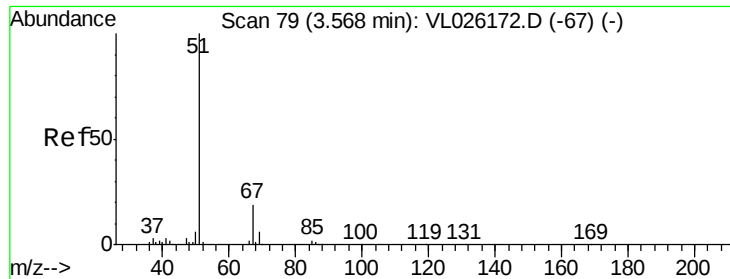


#2

Dichlorodifluoromethane
Concen: 0.32 ppbv
RT: 3.64 min Scan# 90
Delta R.T. -0.01 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

Tgt Ion: 85 Resp: 31343
Ion Ratio Lower Upper
85 100
87 30.2 26.2 39.4





#3

Chlorodifluoromethane

Concen: 202.83 ppbv

RT: 3.53 min Scan# 73

Delta R.T. -0.04 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Instrument :

MSVOA_L

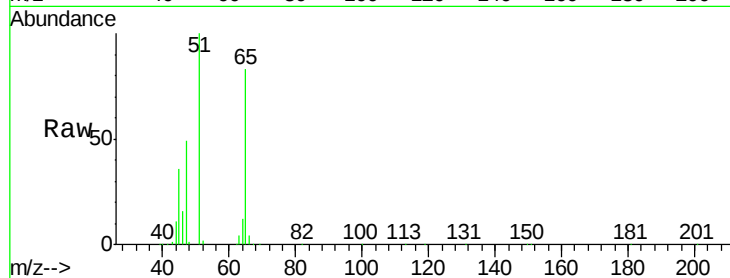
ClientSampleId :

Tot Ion: 51 Resp:12329856

Ion Ratio Lower Upper

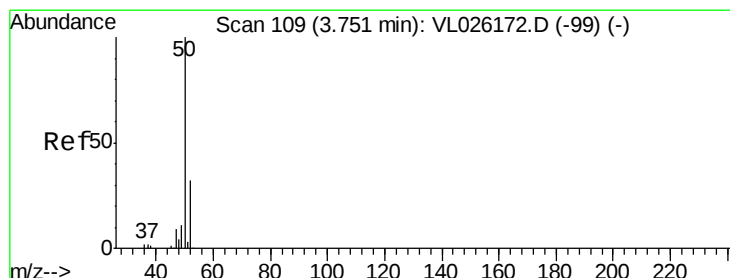
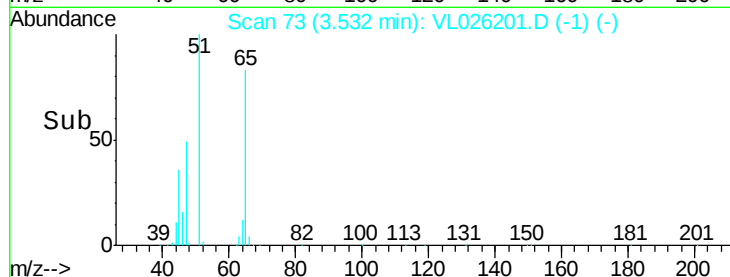
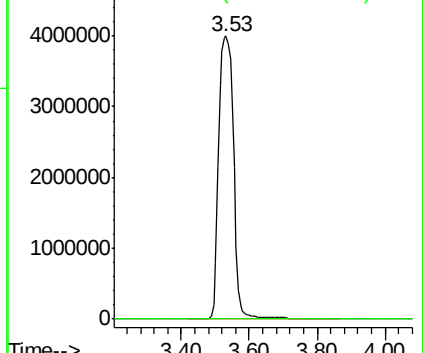
51 100

67 0.2 14.9 22.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.39 ppbv

RT: 3.74 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL026201.D

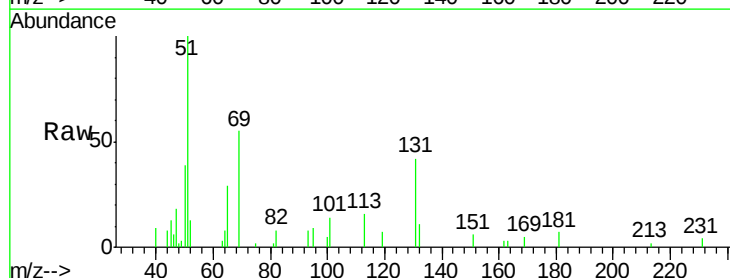
Acq: 10 Oct 2015 7:35

Tgt Ion: 50 Resp: 13432

Ion Ratio Lower Upper

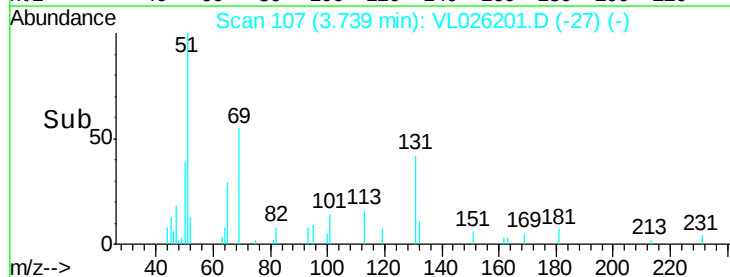
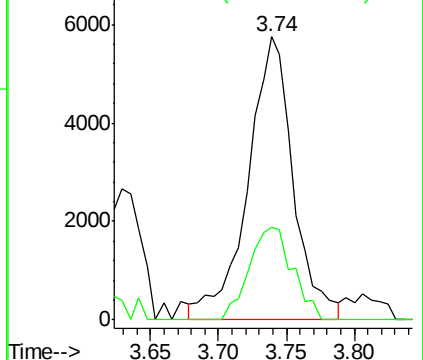
50 100

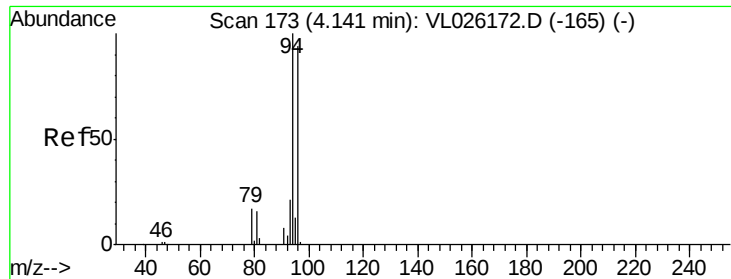
52 34.7 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

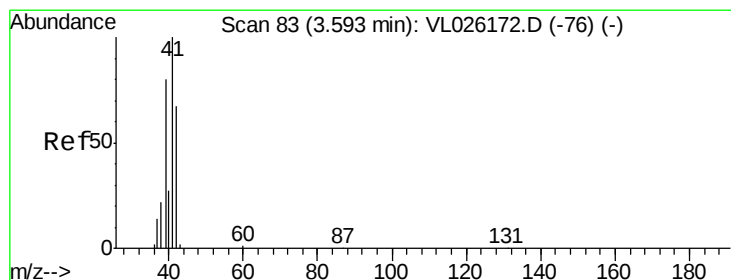
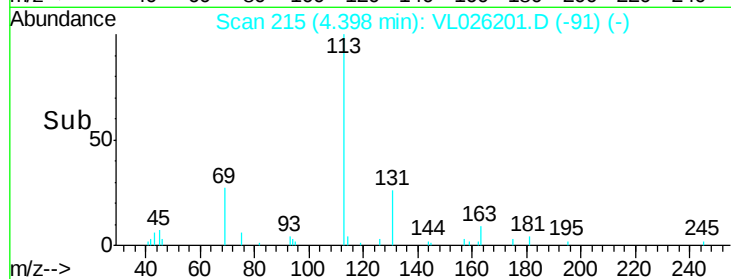
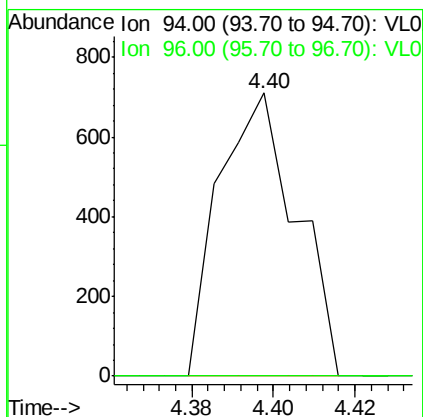
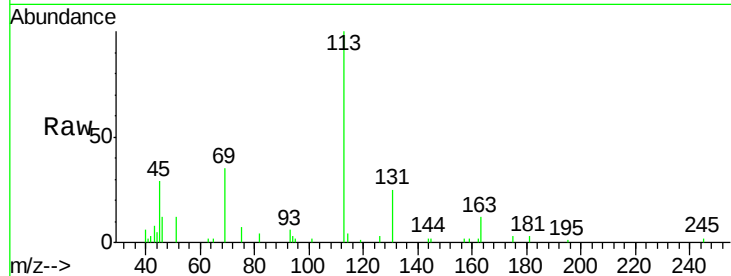




#6
Bromomethane
Concen: 0.04 ppbv
RT: 4.40 min Scan# 215
Delta R.T. 0.26 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

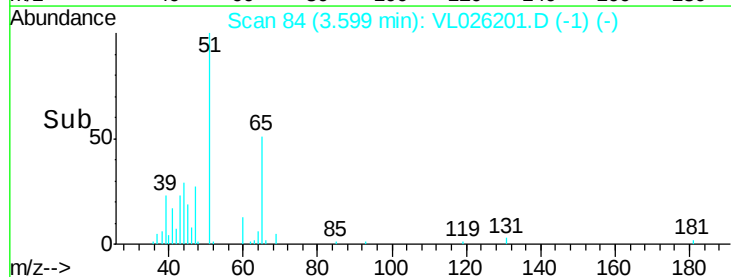
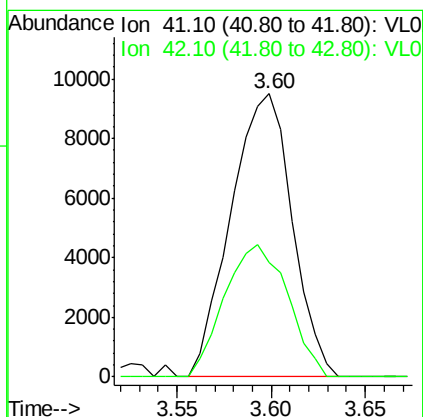
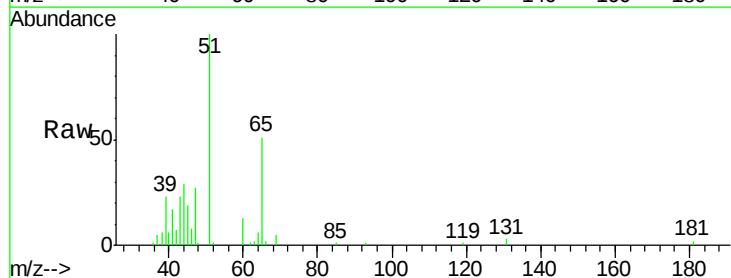
Instrument :
MSVOA_L
ClientSampleId :

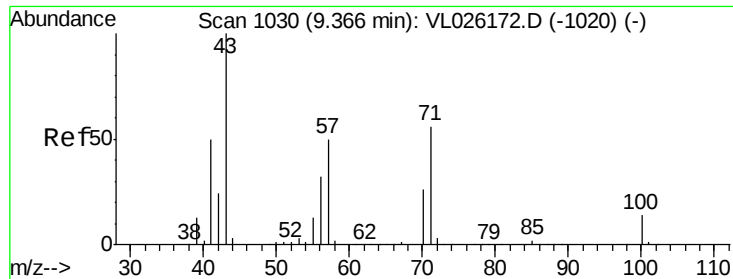
Tot Ion: 94 Resp: 935
Ion Ratio Lower Upper
94 100
96 0.0 75.4 113.2#



#9
Propene
Concen: 0.77 ppbv
RT: 3.60 min Scan# 84
Delta R.T. 0.01 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

Tgt Ion: 41 Resp: 21414
Ion Ratio Lower Upper
41 100
42 48.2 53.6 80.4#

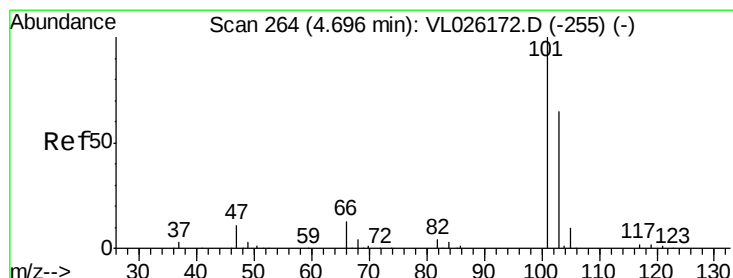
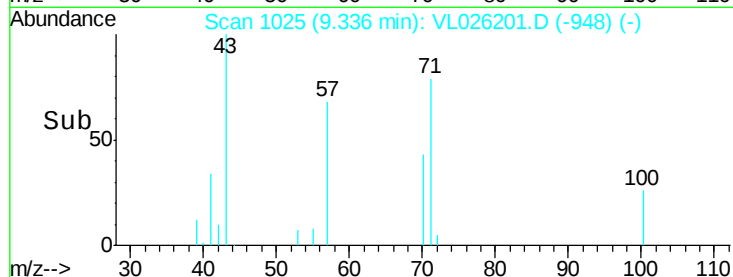
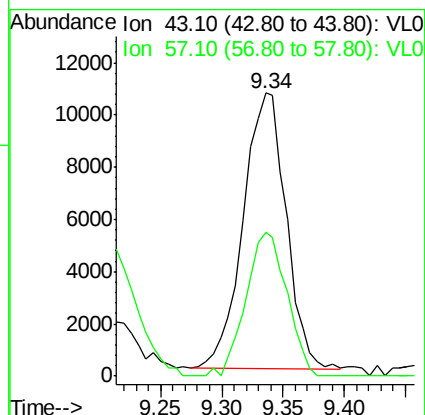
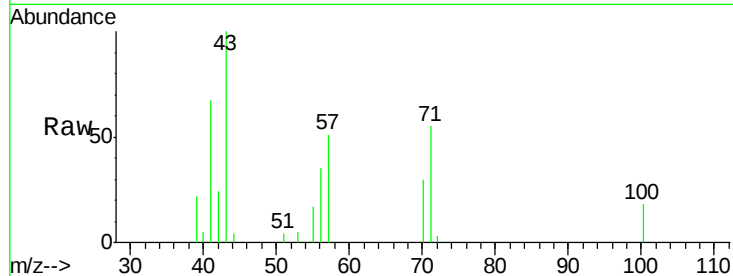




#10
 Heptane
 Concen: 0.27 ppbv
 RT: 9.34 min Scan# 1025
 Delta R.T. -0.03 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

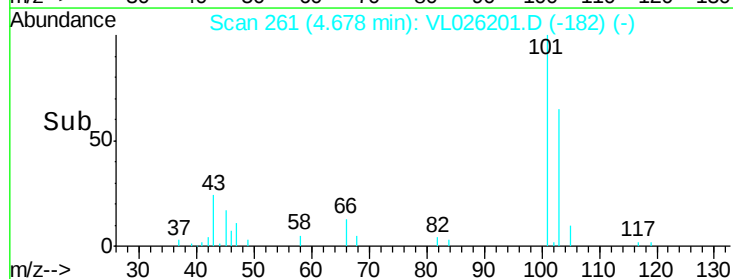
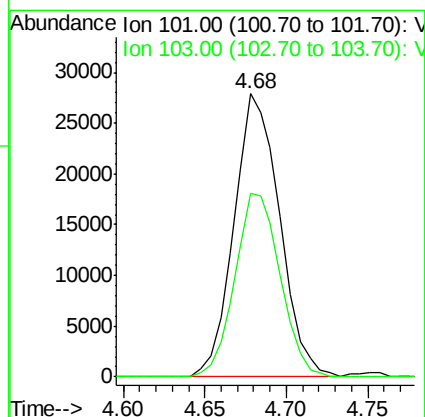
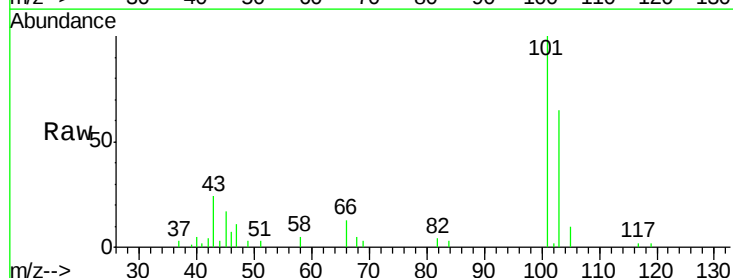
Instrument :
 MSVOA_L
 ClientSampleId :

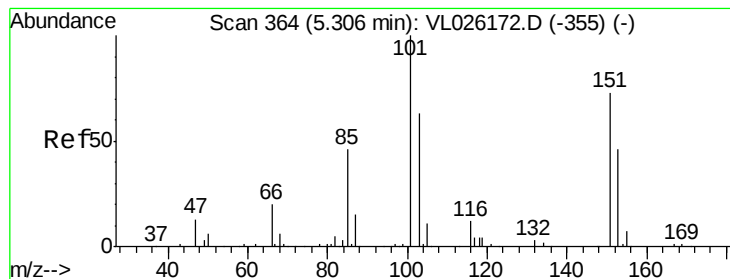
Tot Ion: 43 Resp: 25782
 Ion Ratio Lower Upper
 43 100
 57 49.8 41.8 62.8



#11
 Trichlorofluoromethane
 Concen: 0.57 ppbv
 RT: 4.68 min Scan# 261
 Delta R.T. -0.02 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

Tgt Ion: 101 Resp: 54198
 Ion Ratio Lower Upper
 101 100
 103 64.7 51.9 77.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.08 ppbv

RT: 5.29 min Scan# 361

Delta R.T. -0.02 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Instrument :

MSVOA_L

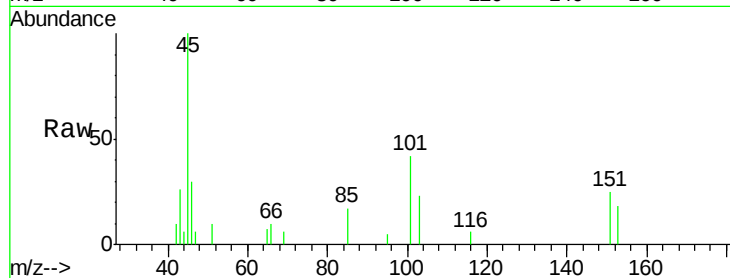
ClientSampleId :

Tot Ion:101 Resp: 5175

Ion Ratio Lower Upper

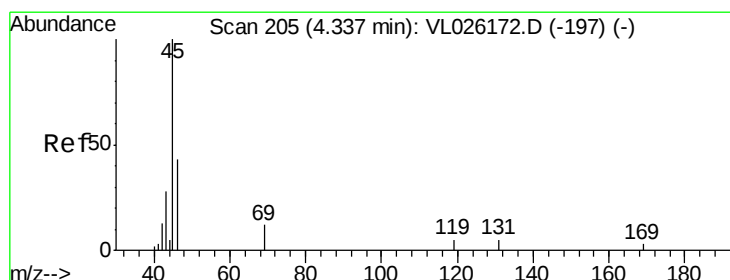
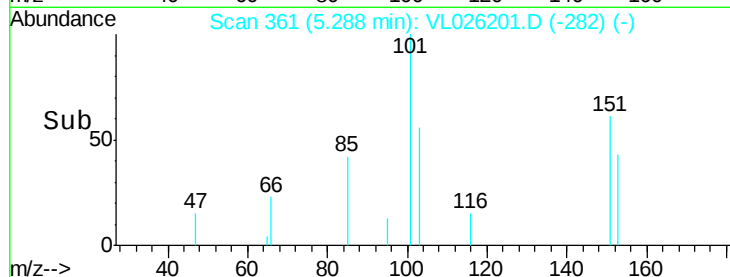
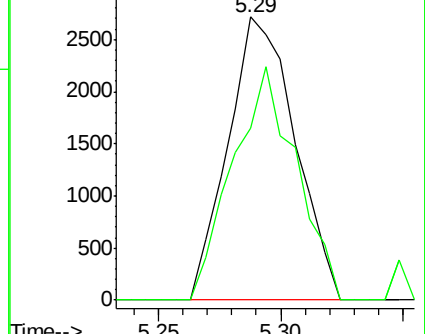
101 100

151 81.0 59.0 88.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 65.75 ppbv

RT: 4.31 min Scan# 201

Delta R.T. -0.02 min

Lab File: VL026201.D

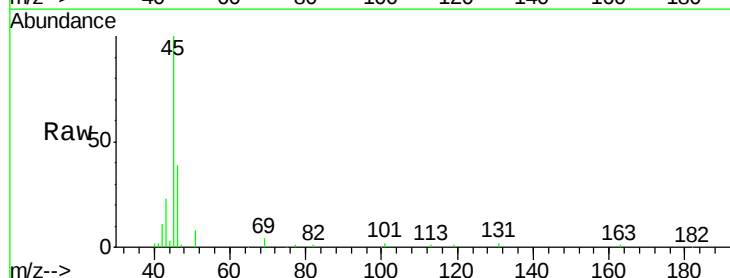
Acq: 10 Oct 2015 7:35

Tgt Ion: 45 Resp: 269907

Ion Ratio Lower Upper

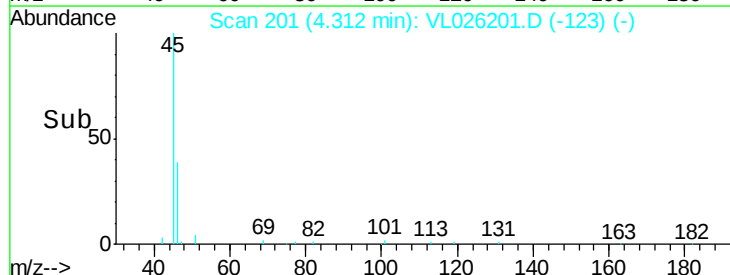
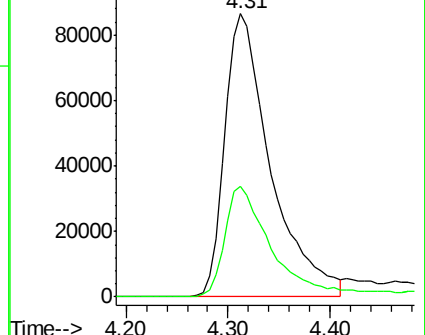
45 100

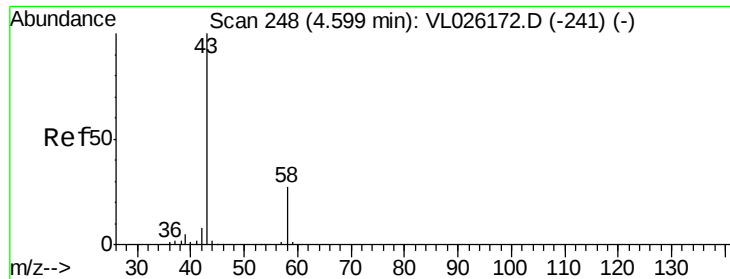
46 40.7 18.1 72.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 16.45 ppbv

RT: 4.59 min Scan# 246

Delta R.T. -0.01 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Instrument :

MSVOA_L

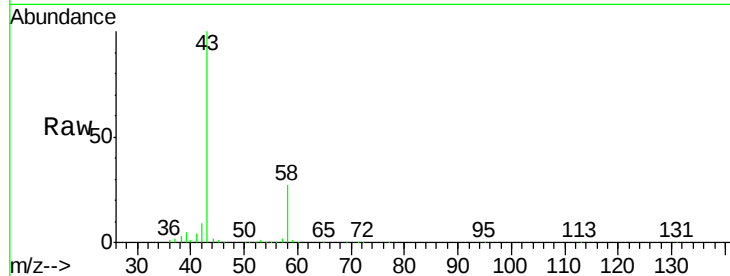
ClientSampleId :

Tot Ion: 43 Resp: 1106620

Ion Ratio Lower Upper

43 100

58 28.7 22.0 33.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

500000

400000

300000

200000

100000

0

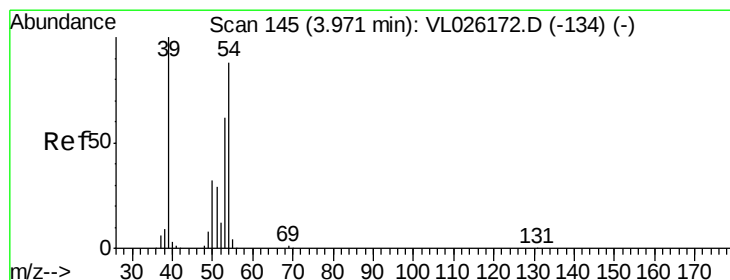
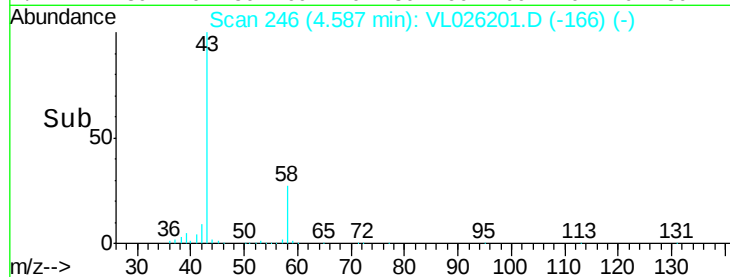
4.59

4.50

4.60

4.70

Time-->



#16

1,3-Butadiene

Concen: 0.58 ppbv

RT: 3.93 min Scan# 139

Delta R.T. -0.04 min

Lab File: VL026201.D

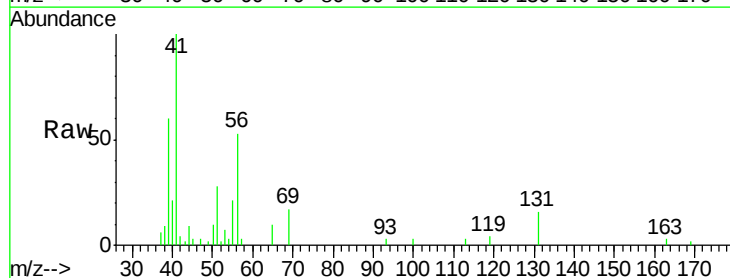
Acq: 10 Oct 2015 7:35

Tgt Ion: 39 Resp: 17952

Ion Ratio Lower Upper

39 100

54 5.9 67.9 101.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

10000

8000

6000

4000

2000

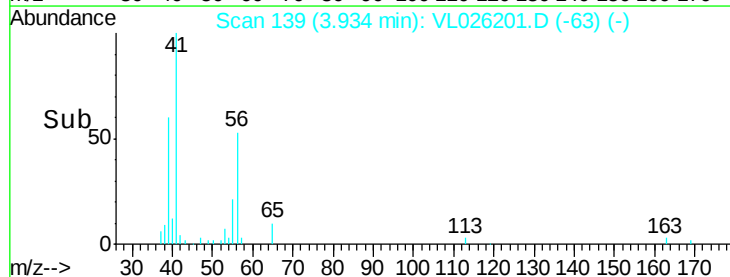
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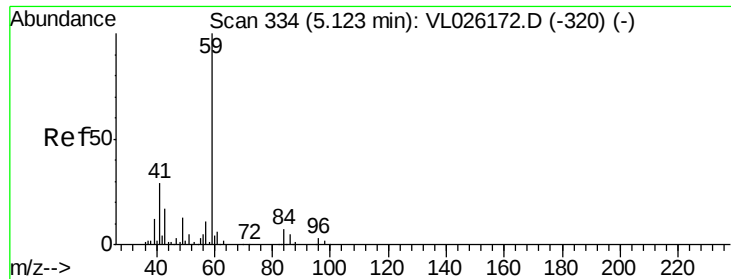
3.93

3.90

3.95

Time-->

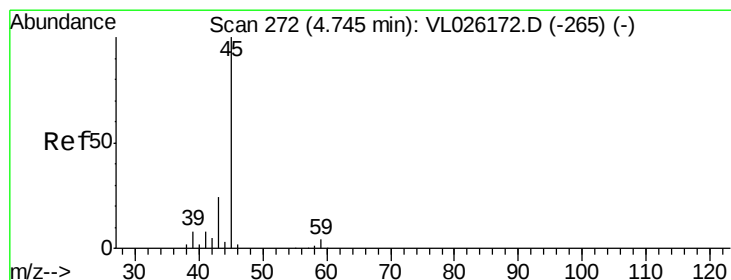
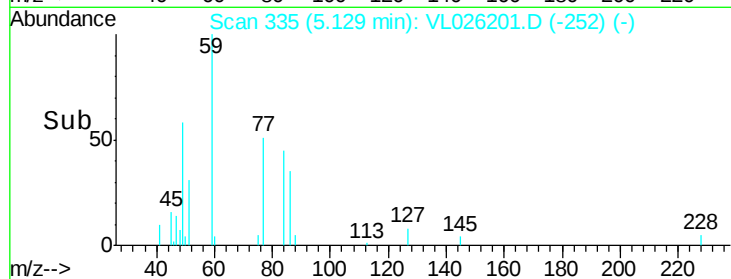
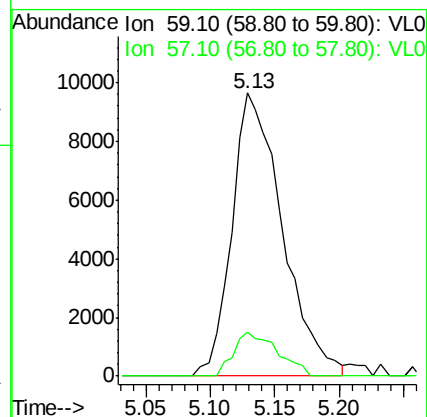
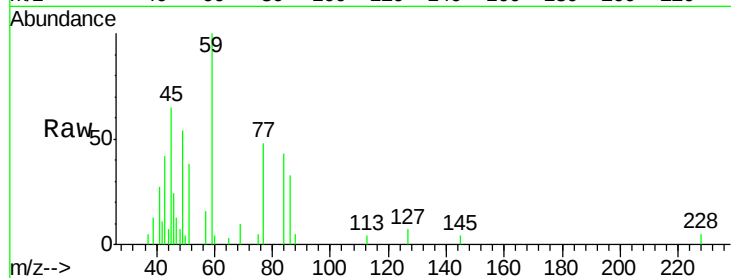




#17
tert-Butyl alcohol
Concen: 0.65 ppbv
RT: 5.13 min Scan# 335
Delta R.T. 0.01 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

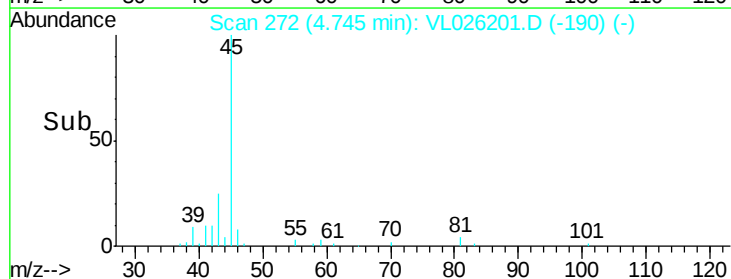
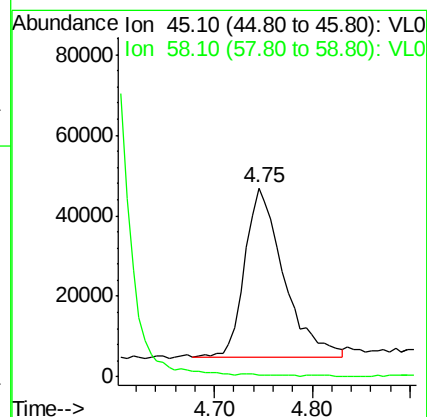
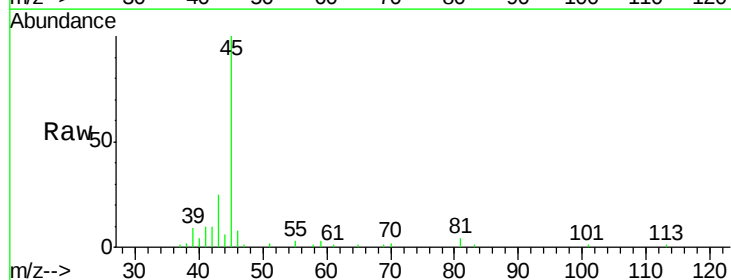
Instrument :
MSVOA_L
ClientSampled :

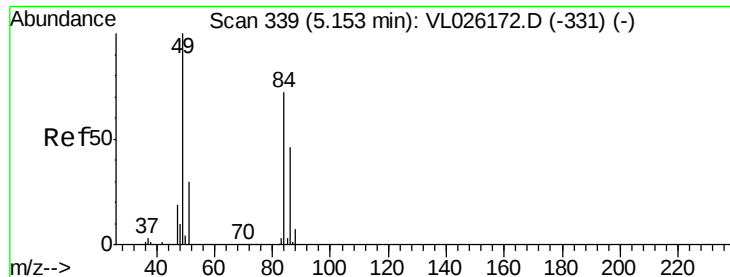
Tot Ion: 59 Resp: 26290
Ion Ratio Lower Upper
59 100
57 13.3 8.8 13.2#



#19
Isopropyl Alcohol
Concen: 4.49 ppbv
RT: 4.75 min Scan# 272
Delta R.T. 0.00 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

Tgt Ion: 45 Resp: 117631
Ion Ratio Lower Upper
45 100
58 0.0 1.7 2.5#

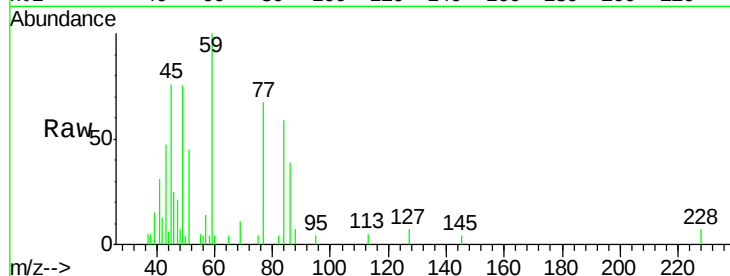




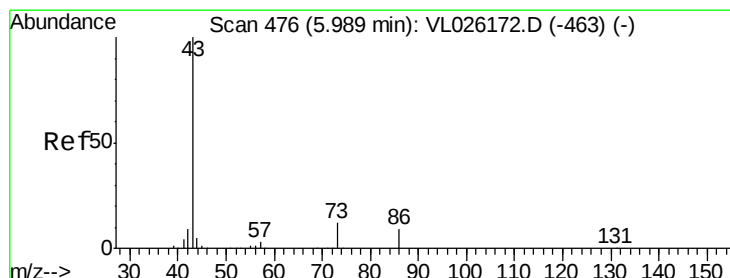
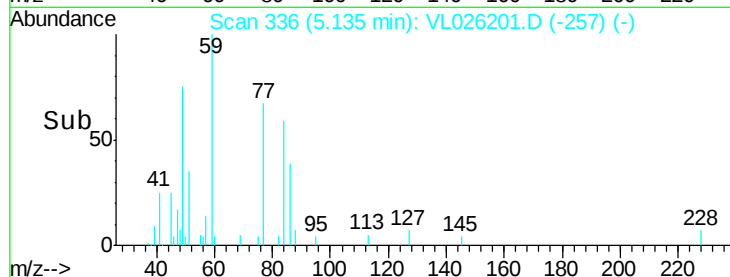
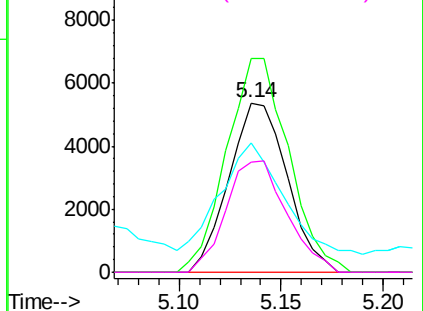
#20
Methvlene Chloride
Concen: 0.37 ppbv
RT: 5.14 min Scan# 336
Delta R.T. -0.02 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 10689
Ion Ratio Lower Upper
84 100
49 119.7 111.3 166.9
51 63.7 33.0 49.6#
86 65.2 51.6 77.4

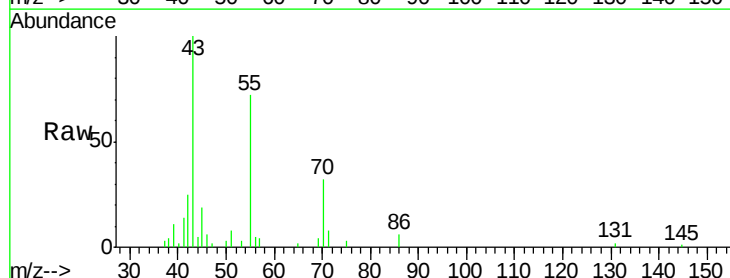


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

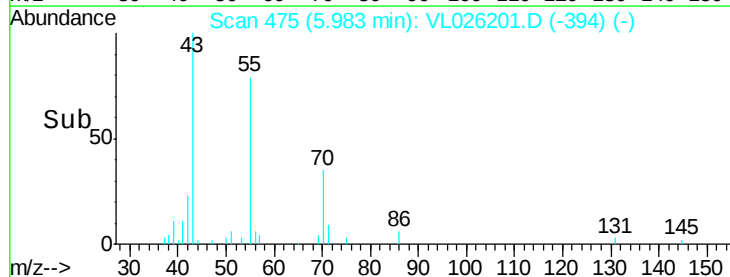
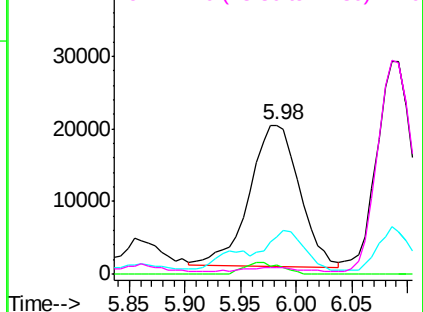


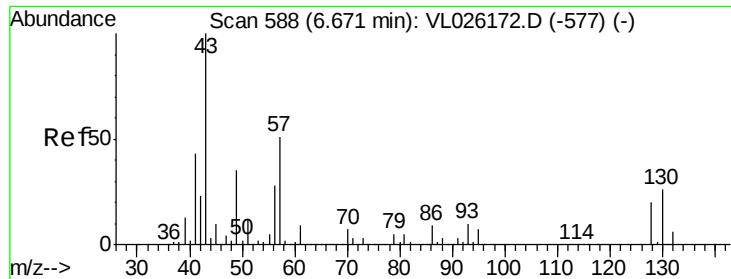
#23
Vinyl Acetate
Concen: 0.51 ppbv
RT: 5.98 min Scan# 475
Delta R.T. -0.01 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

Tgt Ion: 43 Resp: 60861
Ion Ratio Lower Upper
43 100
86 6.3 7.2 10.8#
42 24.7 7.4 11.2#
44 3.2 3.9 5.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0

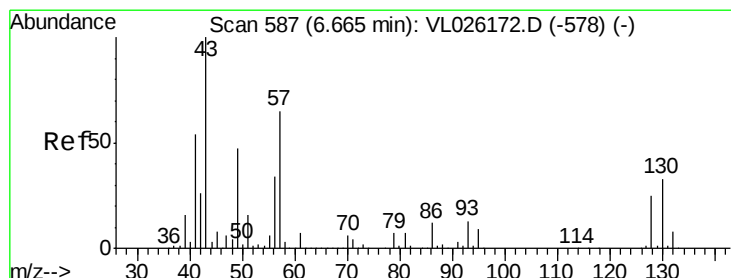
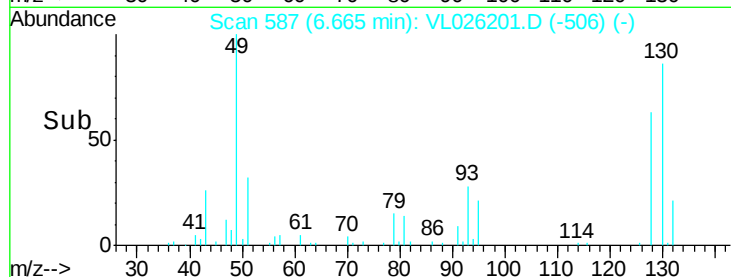
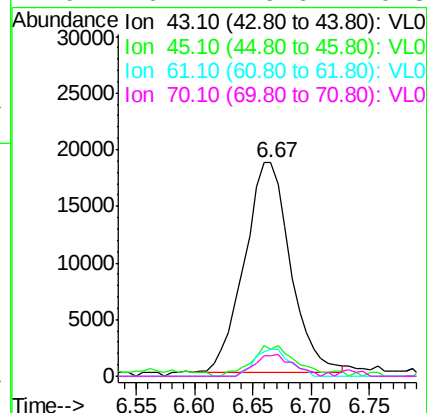
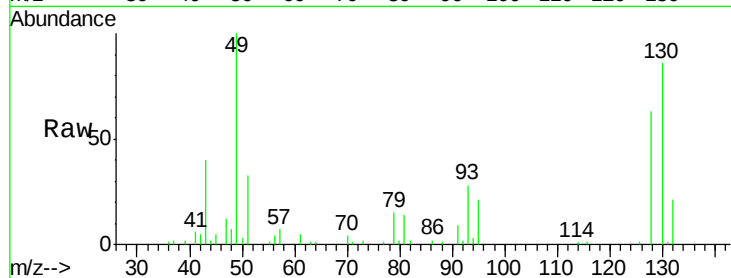




#25
Ethyl Acetate
Concen: 0.39 ppbv
RT: 6.67 min Scan# 587
Delta R.T. -0.01 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

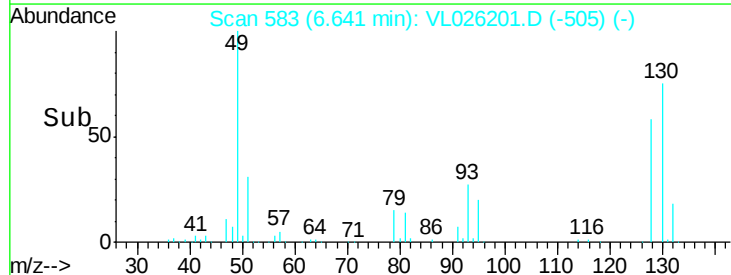
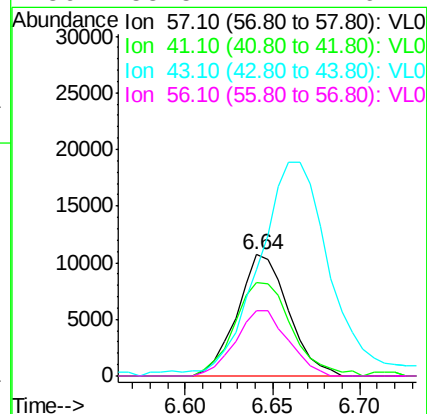
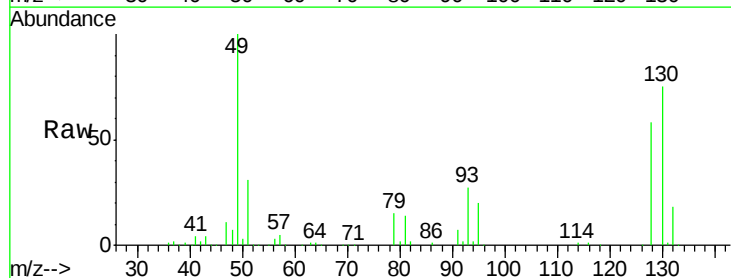
Instrument :
MSVOA_L
ClientSampleId :

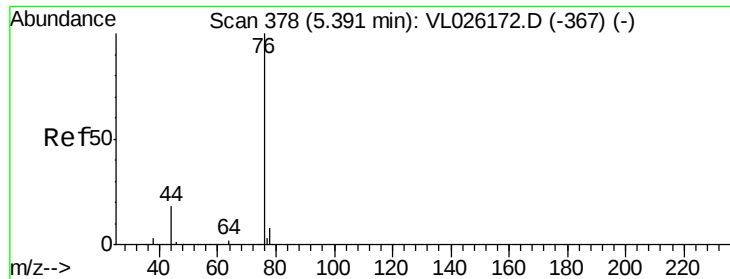
Tot Ion: 43 Resp: 51156
Ion Ratio Lower Upper
43 100
45 15.2 7.7 11.5#
61 9.9 7.4 11.2
70 10.1 6.6 9.8#



#26
Hexane
Concen: 0.35 ppbv
RT: 6.64 min Scan# 583
Delta R.T. -0.02 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

Tgt Ion: 57 Resp: 21777
Ion Ratio Lower Upper
57 100
41 88.9 68.0 102.0
43 263.6 164.4 246.6#
56 55.5 42.7 64.1





#27

Carbon Disulfide

Concen: 0.22 ppbv

RT: 5.38 min Scan# 376

Delta R.T. -0.01 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Instrument :

MSVOA_L

ClientSampleId :

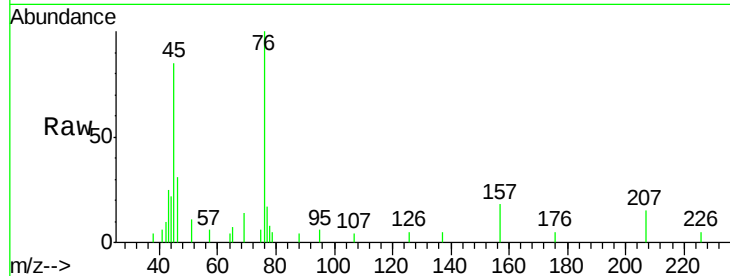
Tot Ion: 76 Resp: 16634

Ion Ratio Lower Upper

76 100

44 44.6 14.2 21.4#

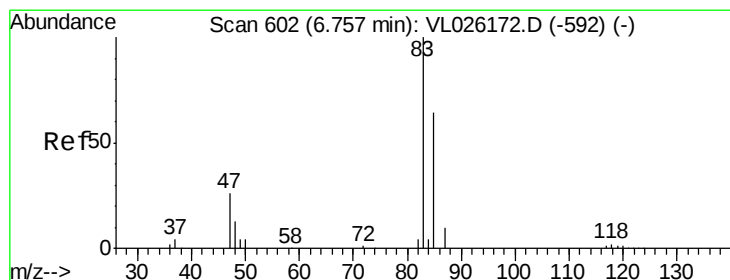
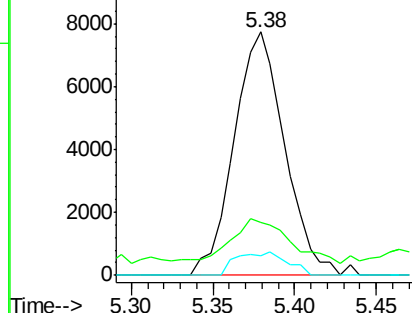
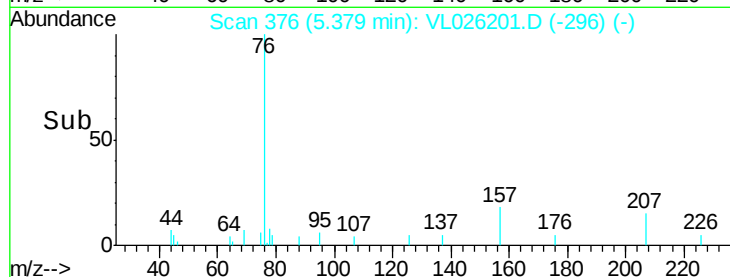
78 9.7 7.5 11.3



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: 1.14 ppbv

RT: 6.73 min Scan# 598

Delta R.T. -0.02 min

Lab File: VL026201.D

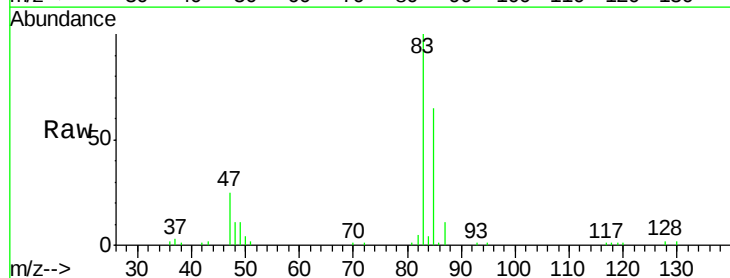
Acq: 10 Oct 2015 7:35

Tgt Ion: 83 Resp: 106317

Ion Ratio Lower Upper

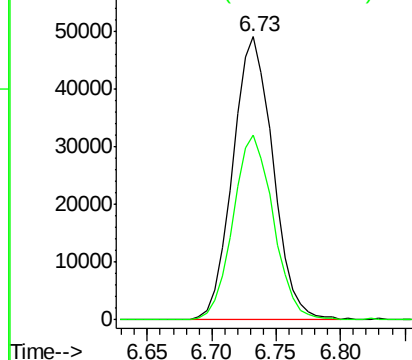
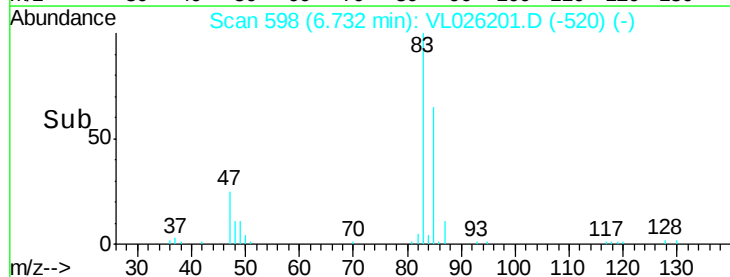
83 100

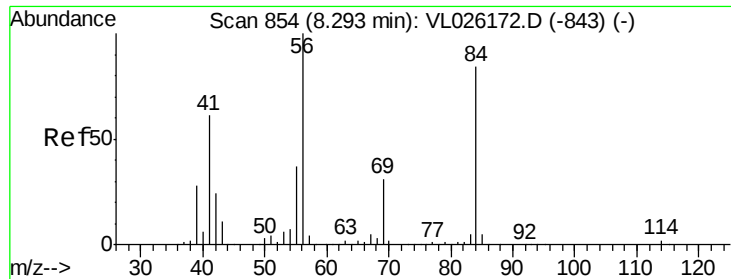
85 65.2 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

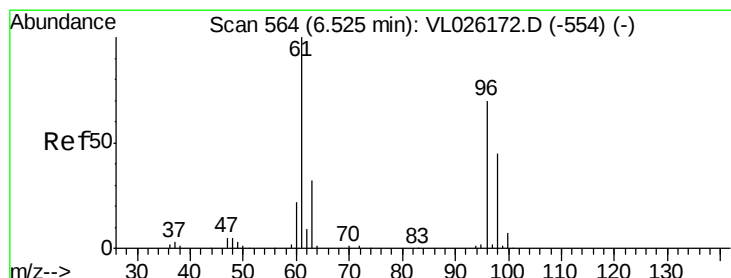
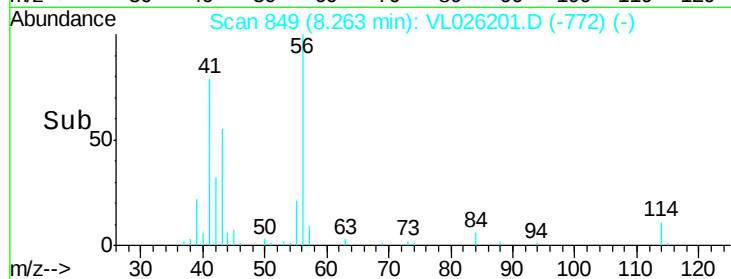
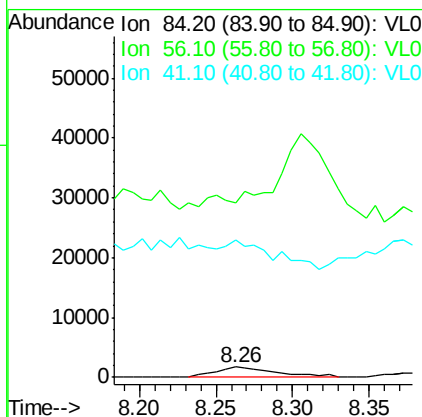
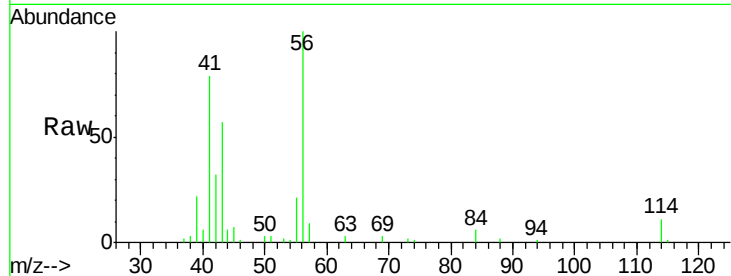




#30
Cvclohexane
Concen: 0.08 ppbv
RT: 8.26 min Scan# 849
Delta R.T. -0.03 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

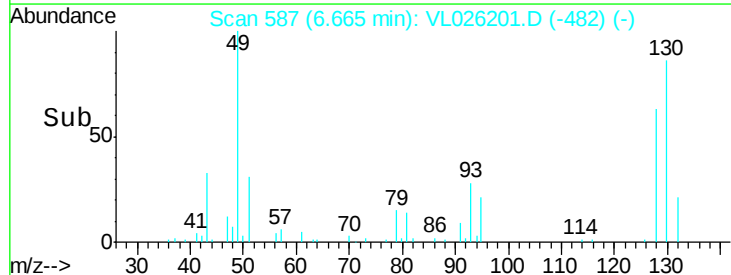
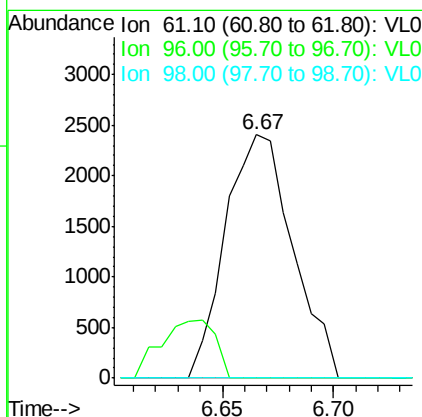
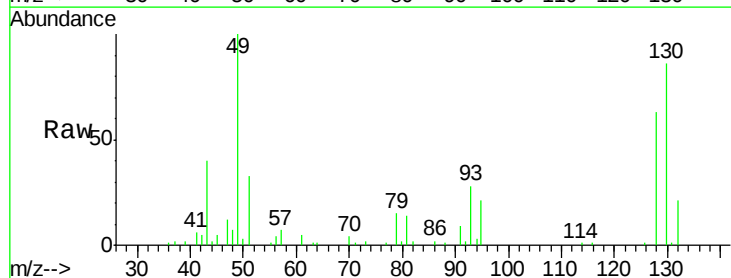
Instrument :
MSVOA_L
ClientSampleId :

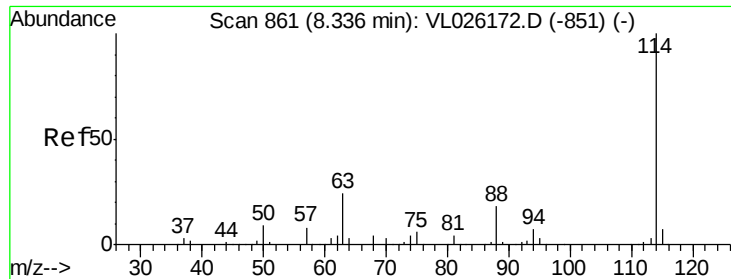
Tot Ion: 84 Resp: 4800
Ion Ratio Lower Upper
84 100
56 3839.3 99.8 149.8#
41 0.0 58.1 87.1#



#31
cis-1,2-Dichloroethene
Concen: 0.09 ppbv
RT: 6.67 min Scan# 587
Delta R.T. 0.14 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

Tgt Ion: 61 Resp: 5051
Ion Ratio Lower Upper
61 100
96 0.0 55.8 83.8#
98 0.0 35.8 53.6#

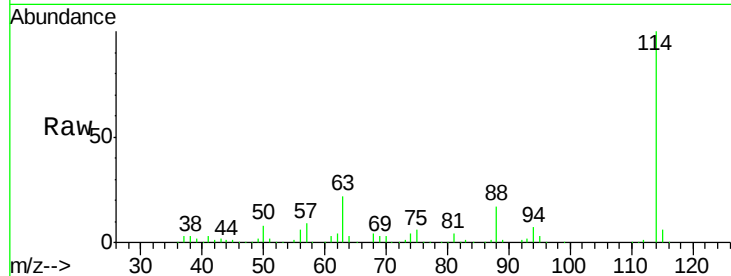




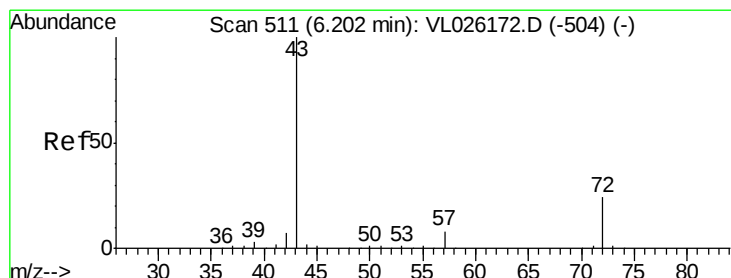
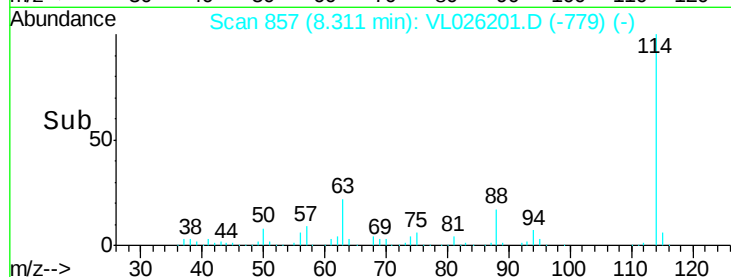
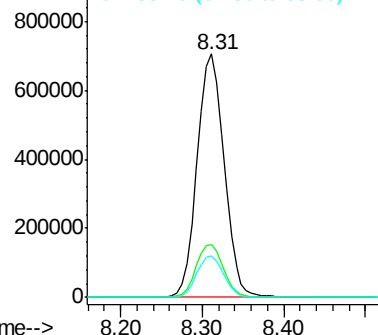
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.31 min Scan# 857
 Delta R.T. -0.02 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 1616116
 Ion Ratio Lower Upper
 114 100
 63 22.0 19.0 28.6
 88 17.0 13.8 20.8

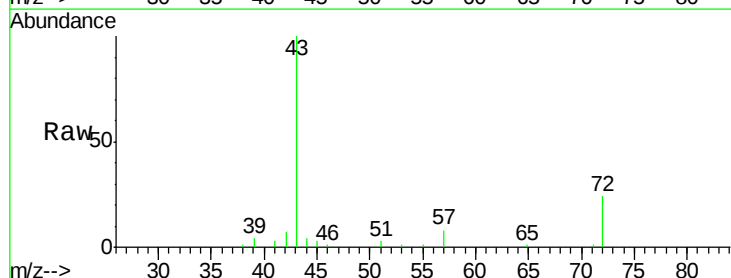


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

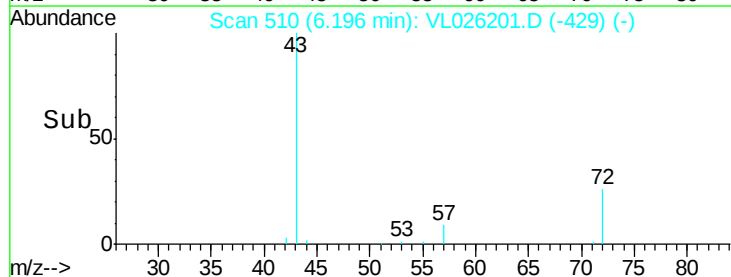
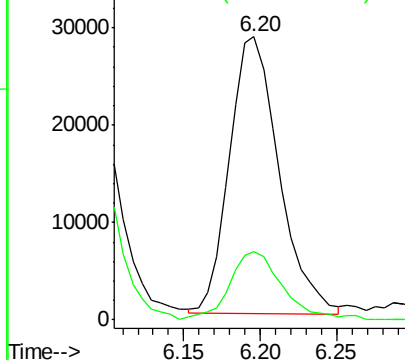


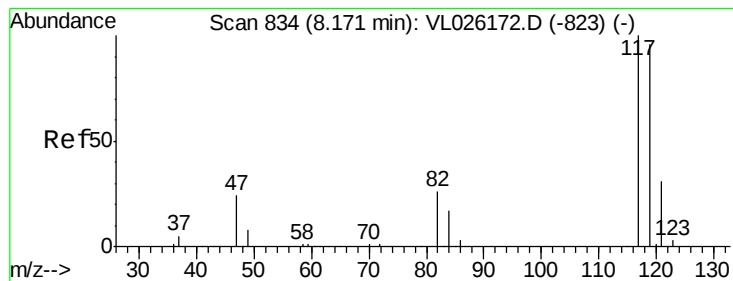
#34
 2-Butanone
 Concen: 0.71 ppbv
 RT: 6.20 min Scan# 510
 Delta R.T. -0.01 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

Tgt Ion: 43 Resp: 63840
 Ion Ratio Lower Upper
 43 100
 72 26.7 19.6 29.4



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





#35

Carbon Tetrachloride

Concen: 0.09 ppbv

RT: 8.15 min Scan# 830

Delta R.T. -0.02 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Instrument :

MSVOA_L

ClientSampleId :

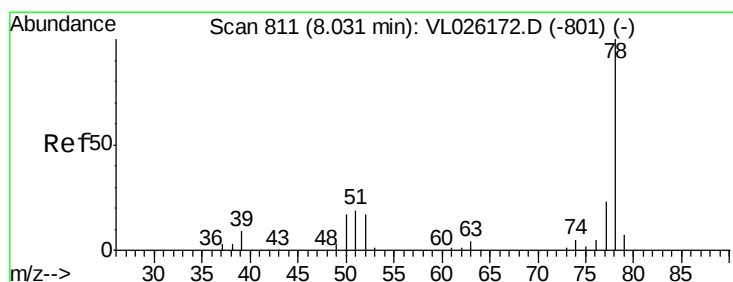
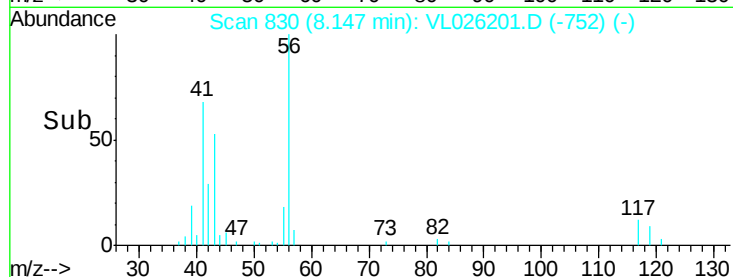
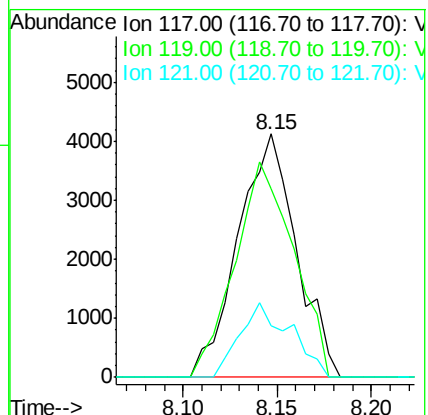
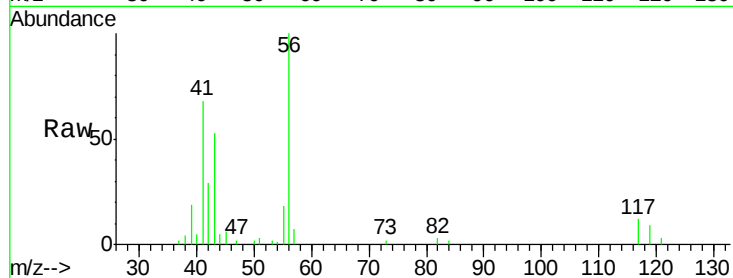
Tot Ion:117 Resp: 8824

Ion Ratio Lower Upper

117 100

119 77.5 76.6 115.0

121 21.4 25.0 37.4#



#36

Benzene

Concen: 0.15 ppbv

RT: 8.01 min Scan# 807

Delta R.T. -0.02 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

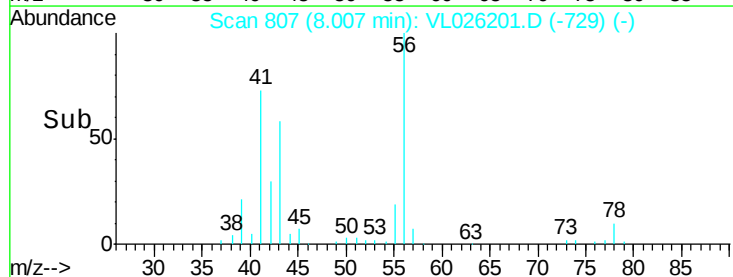
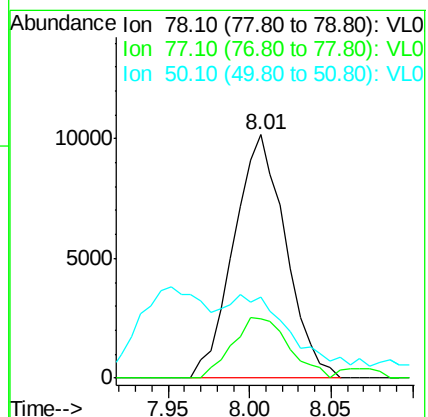
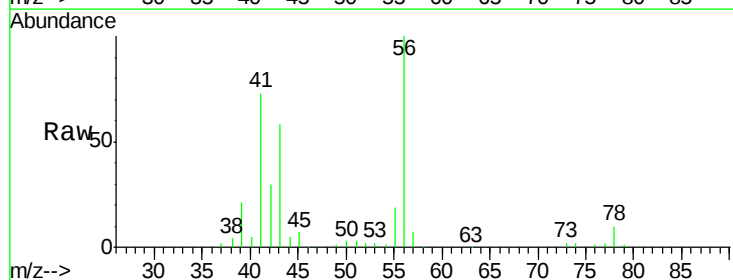
Tgt Ion: 78 Resp: 22500

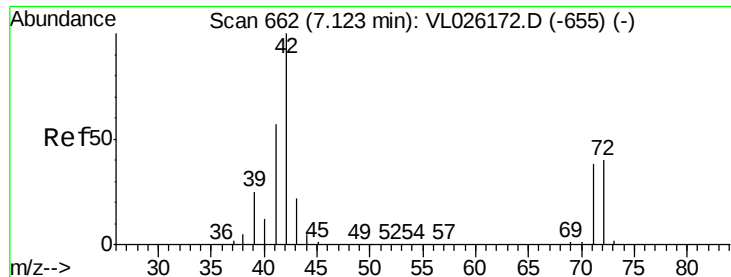
Ion Ratio Lower Upper

78 100

77 24.2 18.2 27.4

50 24.5 13.4 20.2#





#41

Tetrahydrofuran

Concen: 0.16 ppbv

RT: 7.07 min Scan# 654

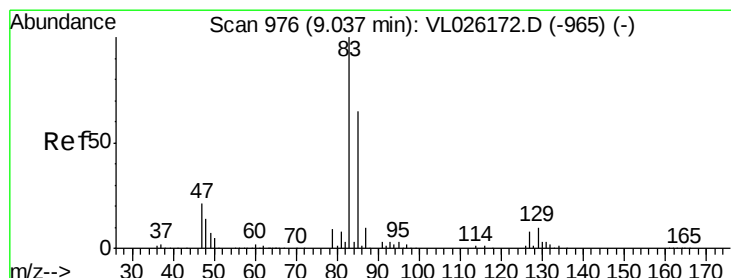
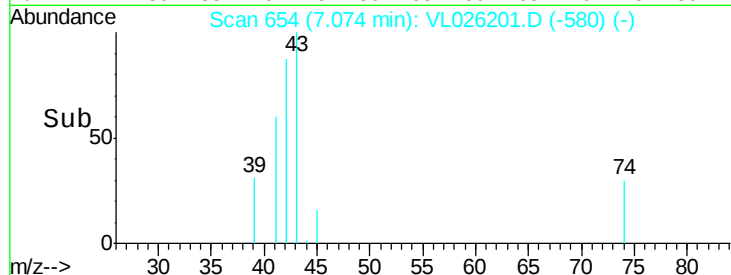
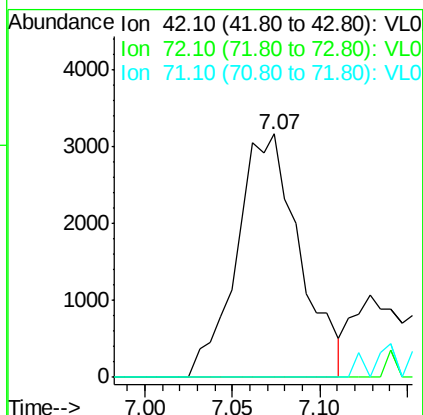
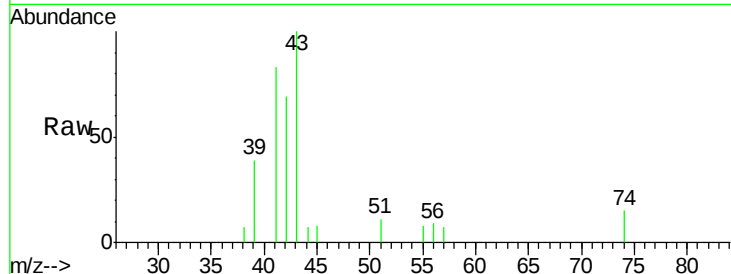
Delta R.T. -0.05 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	42	Resp:	7900
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.4	48.6#
71	0.0	30.2	45.4#



#42

Bromodichloromethane

Concen: 0.07 ppbv

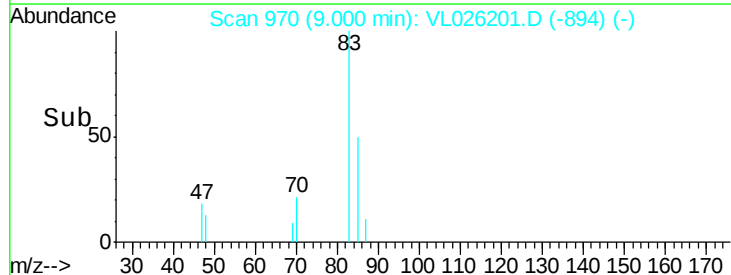
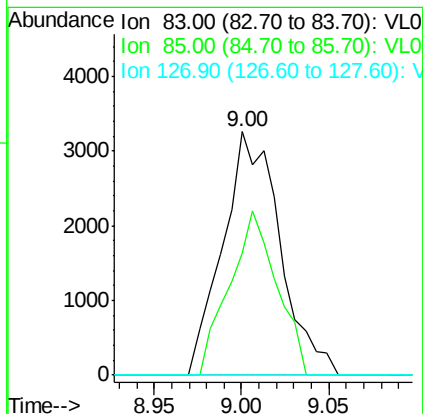
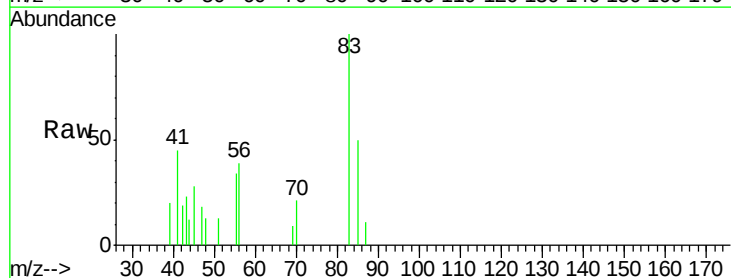
RT: 9.00 min Scan# 970

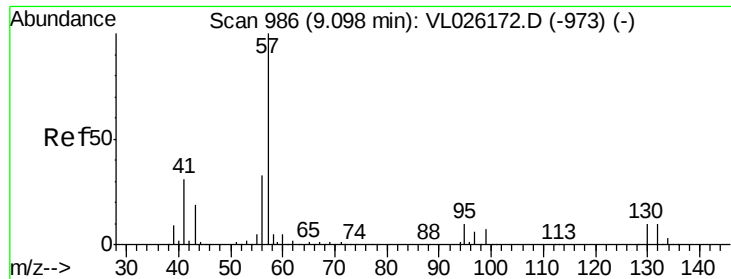
Delta R.T. -0.04 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Tgt Ion:	83	Resp:	7433
Ion	Ratio	Lower	Upper
83	100		
85	49.9	51.9	77.9#
127	0.0	6.2	9.4#





#44

2,2,4-Trimethylpentane

Concen: 0.04 ppbv

RT: 9.07 min Scan# 982

Delta R.T. -0.02 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Instrument :

MSVOA_L

ClientSampleId :

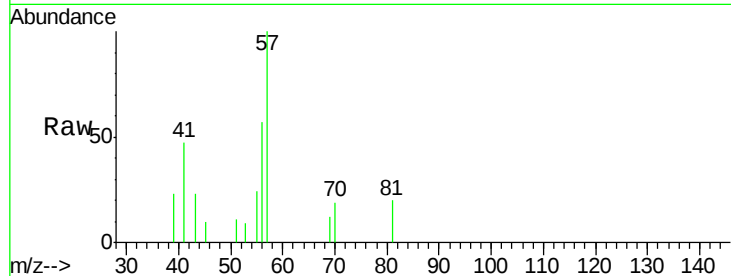
Tot Ion: 57 Resp: 10565

Ion Ratio Lower Upper

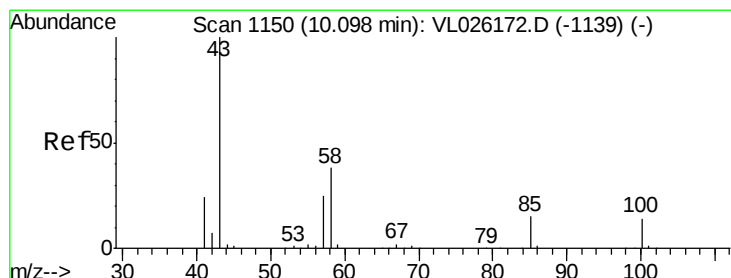
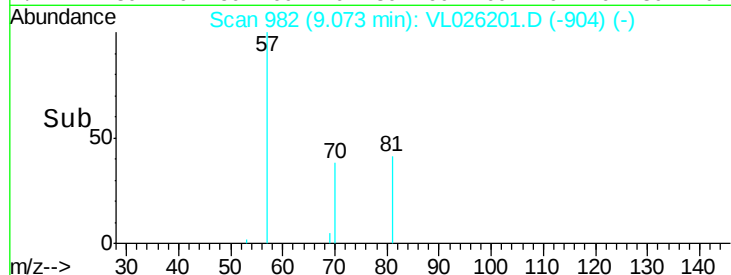
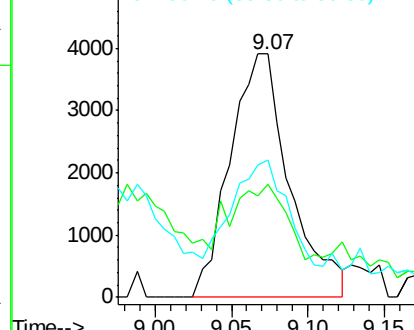
57 100

41 0.0 23.7 35.5#

56 78.5 26.4 39.6#



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



#50

4-Methyl-2-Pentanone

Concen: 0.13 ppbv

RT: 10.08 min Scan# 1147

Delta R.T. -0.02 min

Lab File: VL026201.D

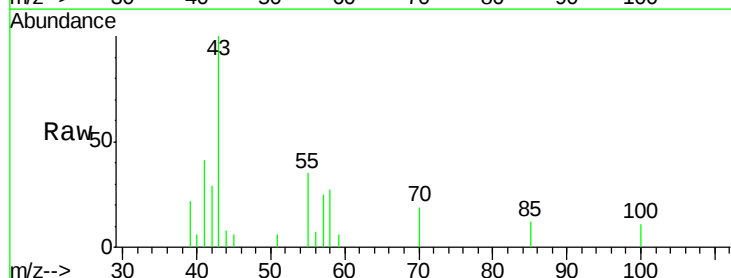
Acq: 10 Oct 2015 7:35

Tgt Ion: 43 Resp: 15541

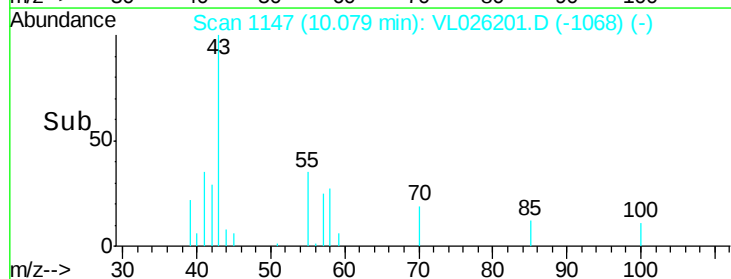
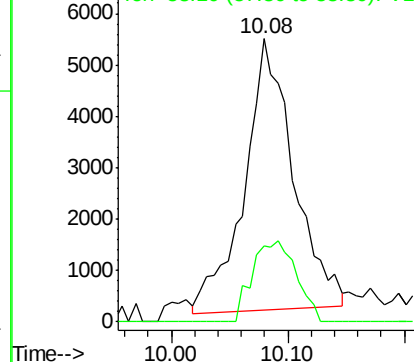
Ion Ratio Lower Upper

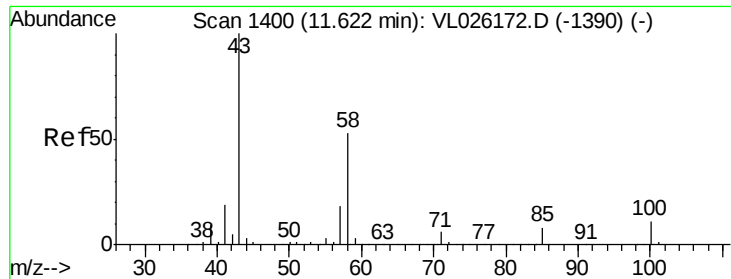
43 100

58 26.8 30.4 45.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

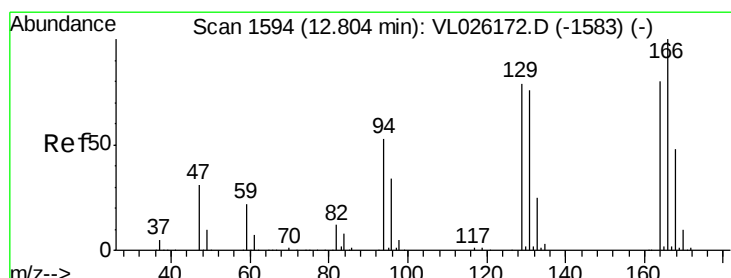
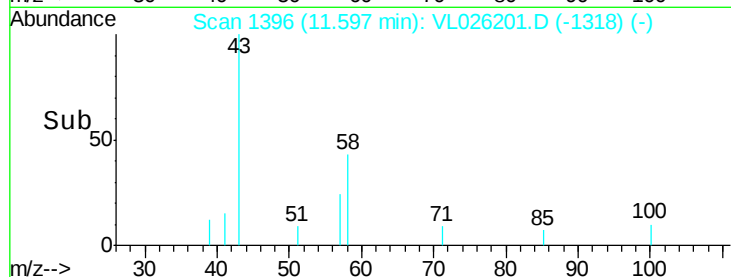
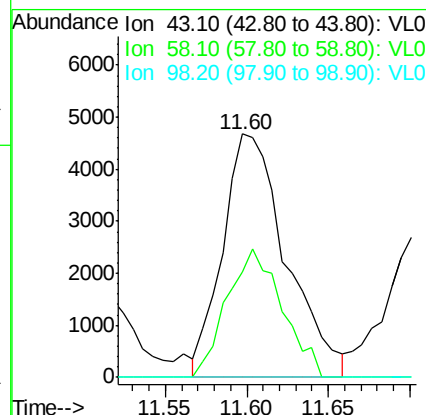
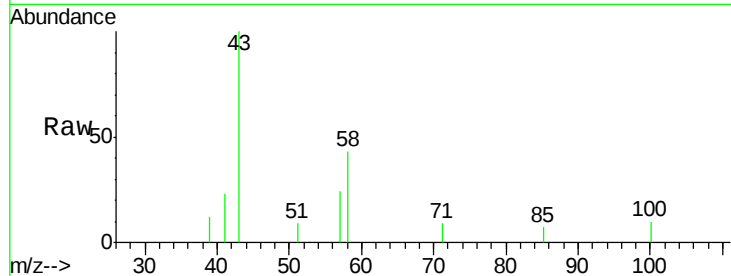




#51
2-Hexanone
Concen: 0.12 ppbv
RT: 11.60 min Scan# 1396
Delta R.T. -0.02 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

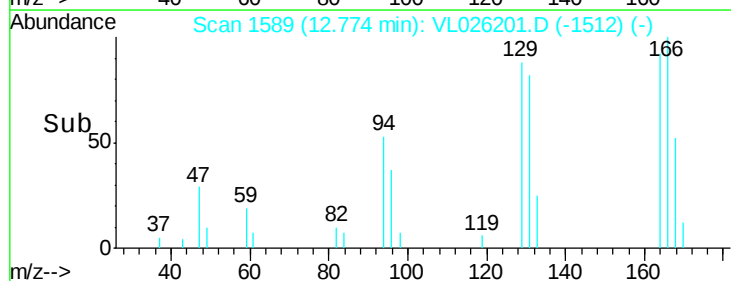
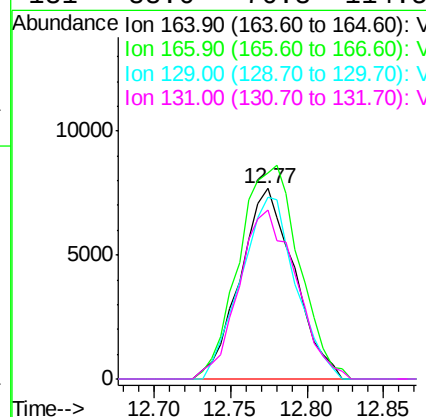
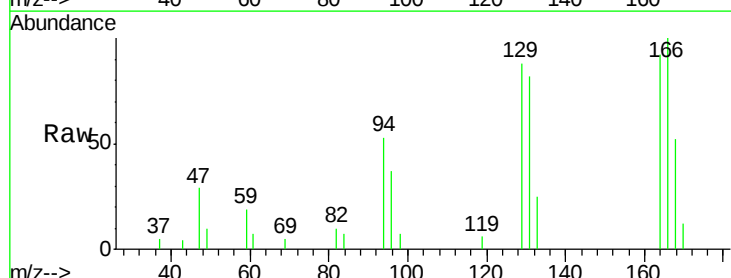
Instrument :
MSVOA_L
ClientSampleId :

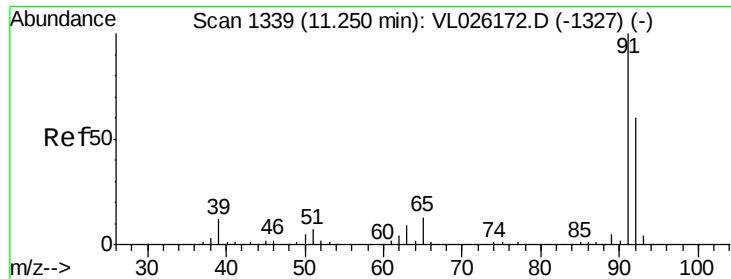
Tot Ion: 43 Resp: 12700
Ion Ratio Lower Upper
43 100
58 45.8 42.2 63.4
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.25 ppbv
RT: 12.77 min Scan# 1589
Delta R.T. -0.03 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

Tgt Ion: 164 Resp: 18927
Ion Ratio Lower Upper
164 100
166 108.3 99.9 149.9
129 95.5 79.1 118.7
131 88.6 76.3 114.5





#53

Toluene

Concen: 1.94 ppbv

RT: 11.22 min Scan# 1334

Delta R.T. -0.03 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Instrument :

MSVOA_L

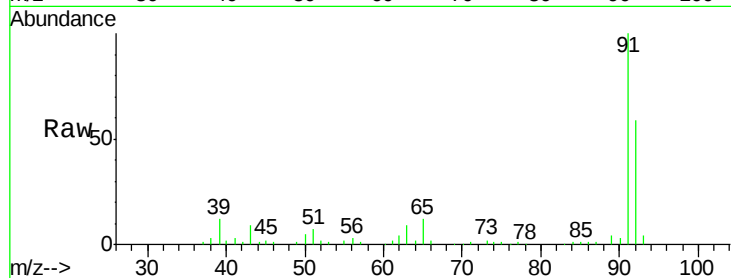
ClientSampleId :

Tot Ion: 91 Resp: 385617

Ion Ratio Lower Upper

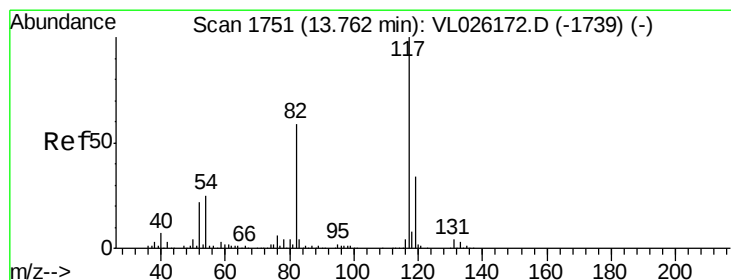
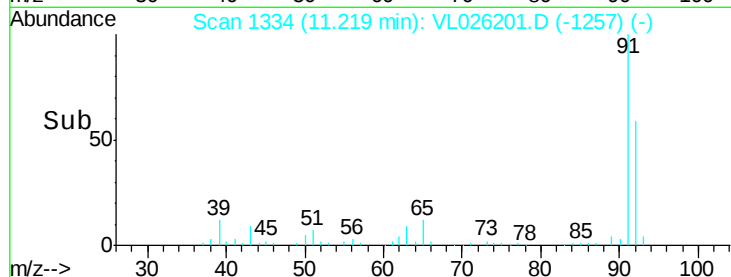
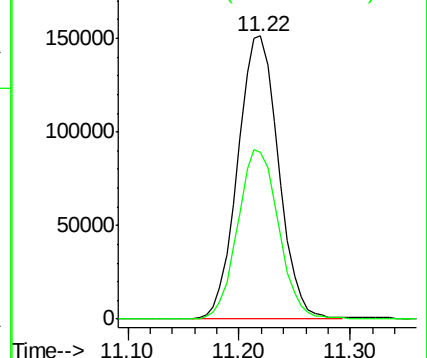
91 100

92 60.2 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.72 min Scan# 1745

Delta R.T. -0.04 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

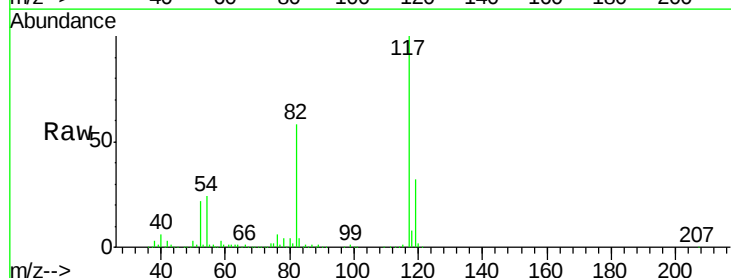
Tgt Ion: 117 Resp: 1789131

Ion Ratio Lower Upper

117 100

82 60.2 47.7 71.5

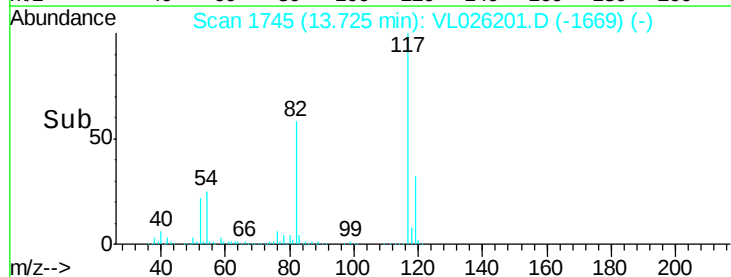
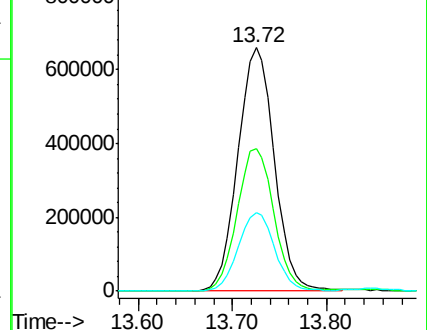
119 32.3 43.7 65.5#

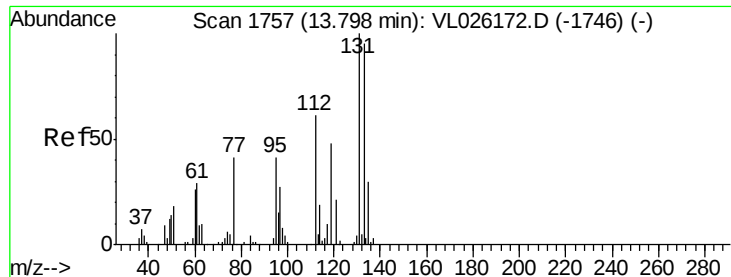


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

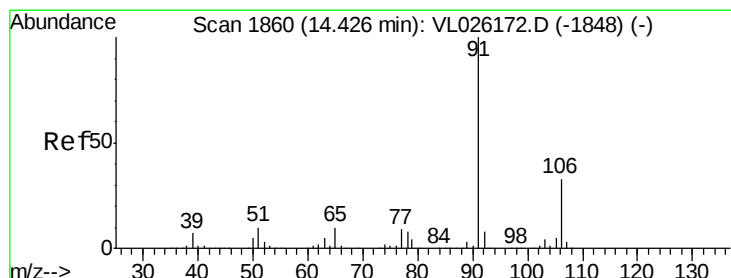
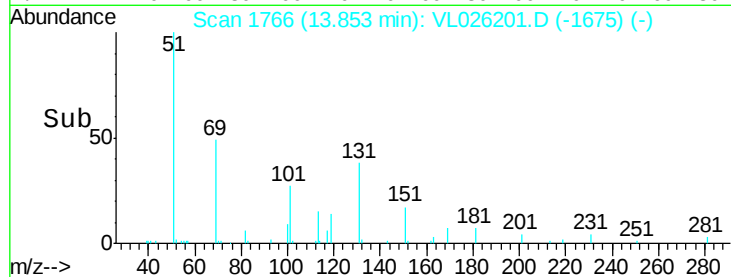
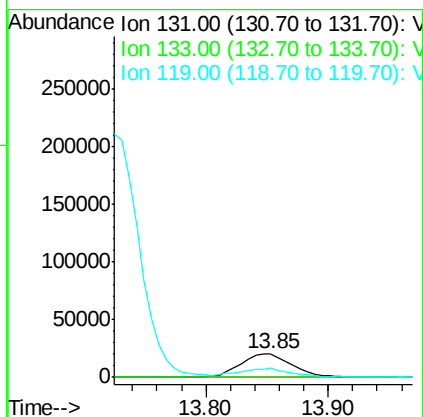
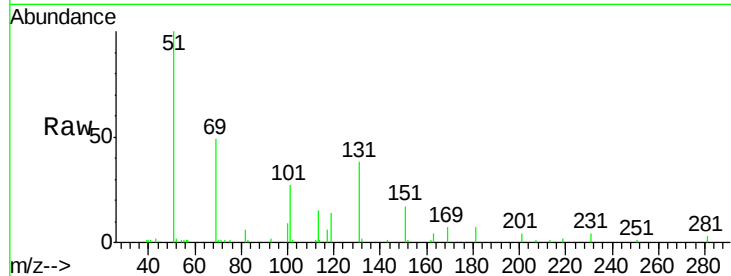




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.83 ppbv
 RT: 13.85 min Scan# 1766
 Delta R.T. 0.05 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

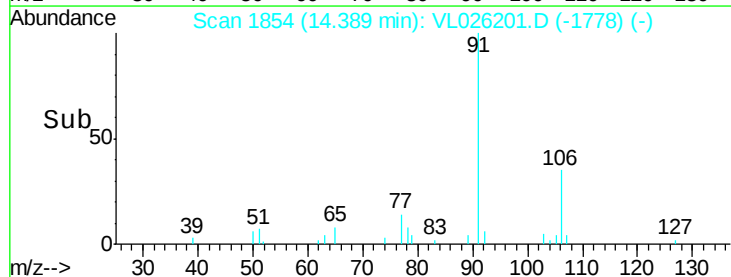
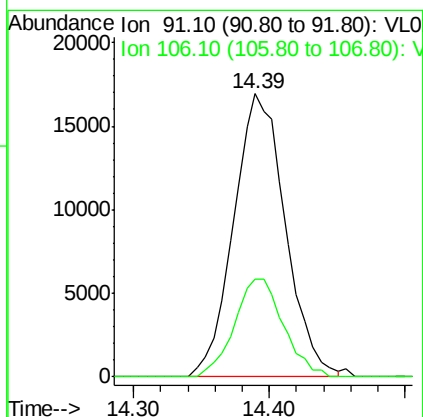
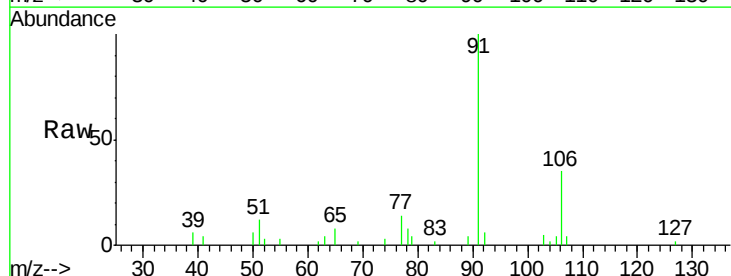
Instrument :
 MSVOA_L
 ClientSampleId :

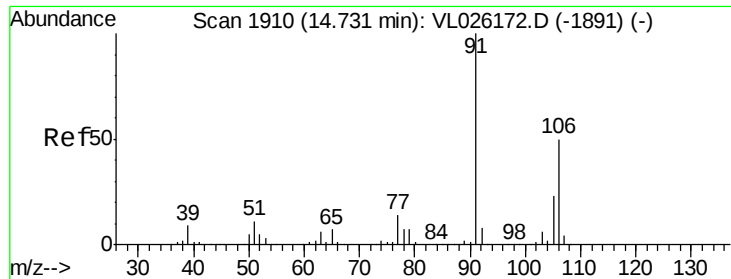
Tot Ion:131 Resp: 59300
 Ion Ratio Lower Upper
 131 100
 133 0.0 76.5 114.7#
 119 37.3 116.0 174.0#



#58
 Ethyl Benzene
 Concen: 0.17 ppbv
 RT: 14.39 min Scan# 1854
 Delta R.T. -0.04 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

Tgt Ion: 91 Resp: 44845
 Ion Ratio Lower Upper
 91 100
 106 34.7 26.1 39.1

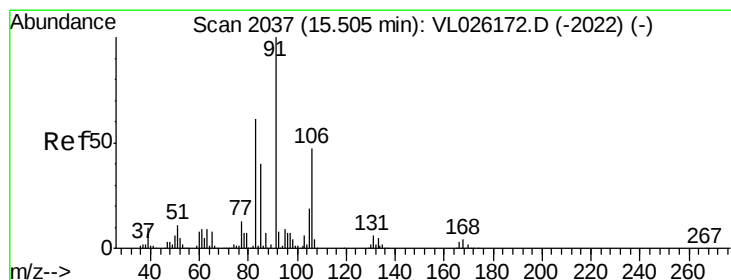
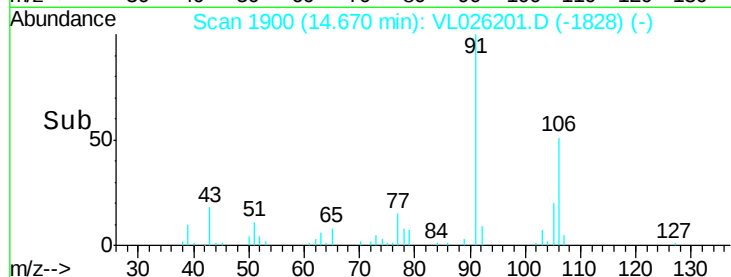
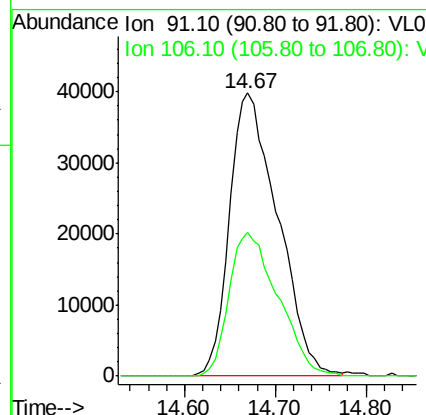
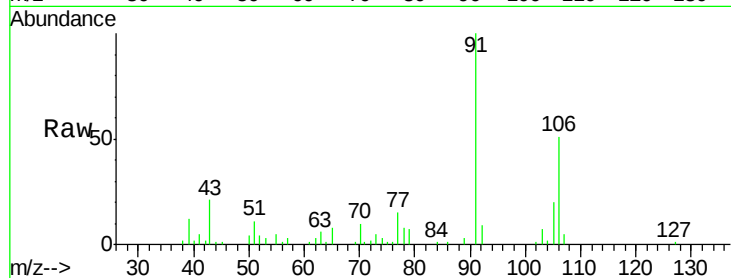




#59
m/p-Xylene
Concen: 0.70 ppbv
RT: 14.67 min Scan# 1900
Delta R.T. -0.06 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

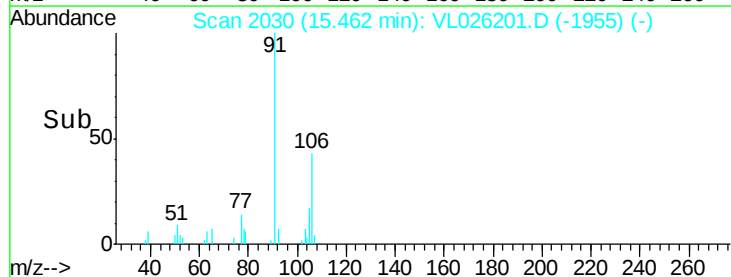
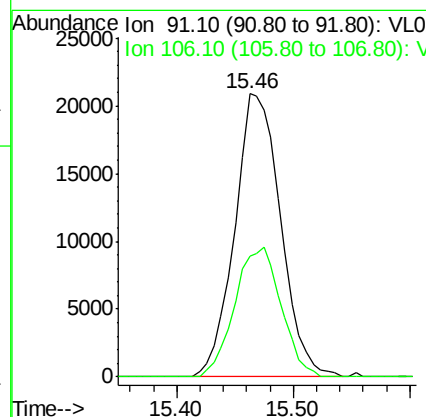
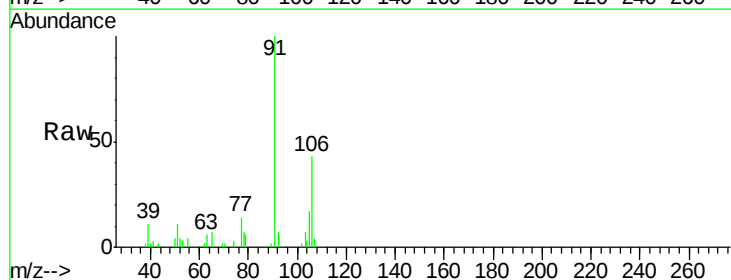
Instrument :
MSVOA_L
ClientSampleId :

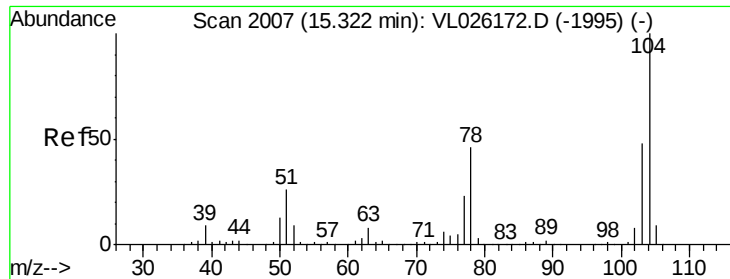
Tot Ion: 91 Resp: 146807
Ion Ratio Lower Upper
91 100
106 51.4 40.2 60.4



#60
o-Xylene
Concen: 0.26 ppbv
RT: 15.46 min Scan# 2030
Delta R.T. -0.04 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

Tgt Ion: 91 Resp: 57426
Ion Ratio Lower Upper
91 100
106 46.0 23.4 70.3





#61

Stvrene

Concen: 0.20 ppbv

RT: 15.29 min Scan# 2002

Delta R.T. -0.03 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Instrument :

MSVOA_L

ClientSampleId :

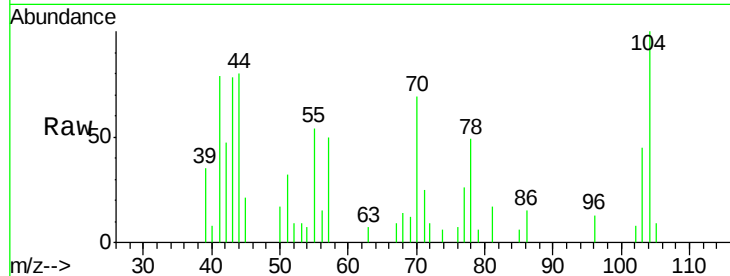
Tot Ion:104 Resp: 17485

Ion Ratio Lower Upper

104 100

78 46.0 36.1 54.1

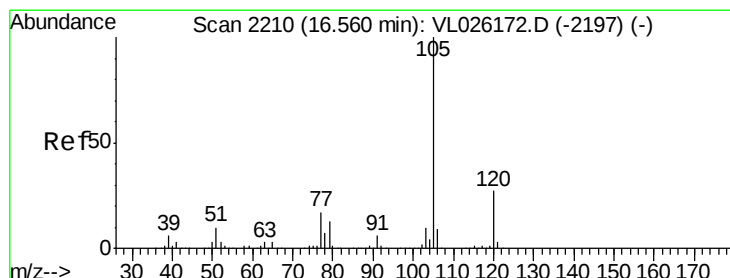
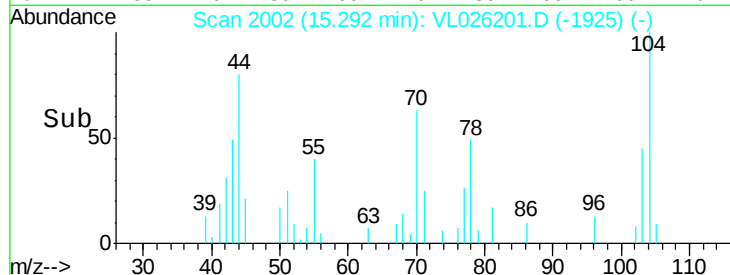
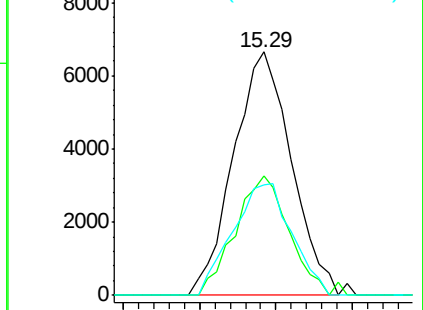
103 47.0 37.5 56.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.04 ppbv

RT: 16.52 min Scan# 2204

Delta R.T. -0.04 min

Lab File: VL026201.D

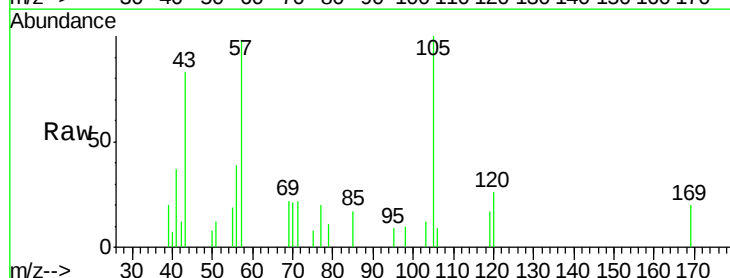
Acq: 10 Oct 2015 7:35

Tgt Ion:105 Resp: 10994

Ion Ratio Lower Upper

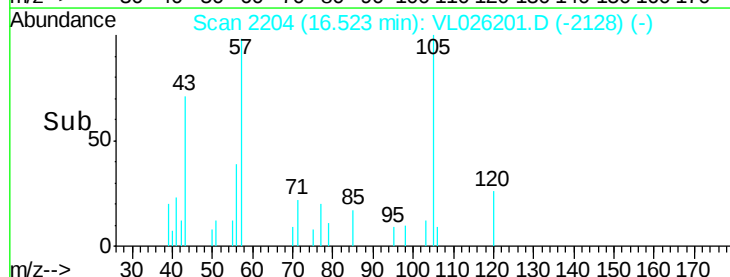
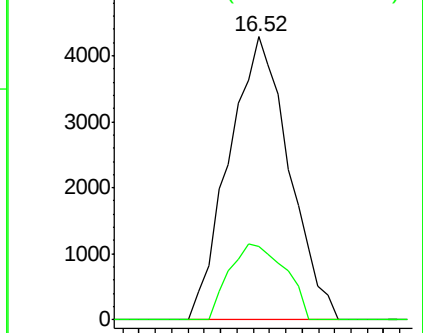
105 100

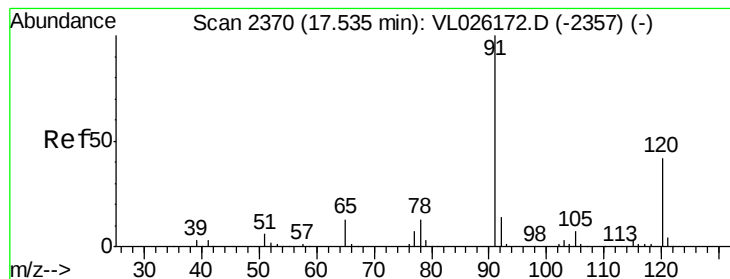
120 24.8 21.8 32.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.11 ppbv

RT: 17.50 min Scan# 2364

Delta R.T. -0.04 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Instrument :

MSVOA_L

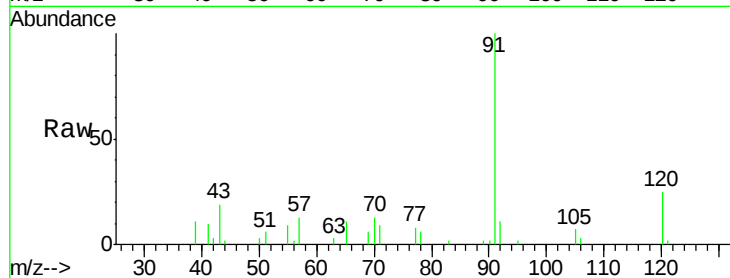
ClientSampleId :

Tot Ion:120 Resp: 8636

Ion Ratio Lower Upper

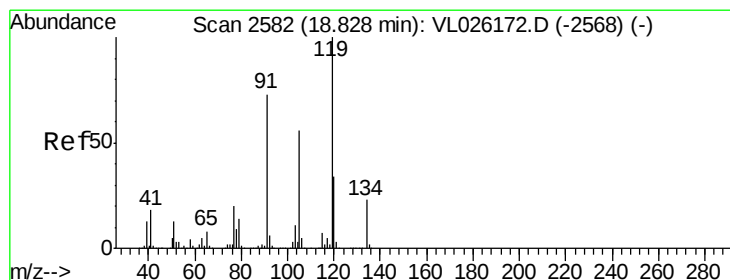
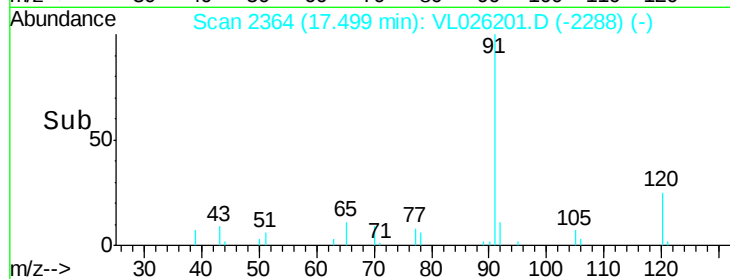
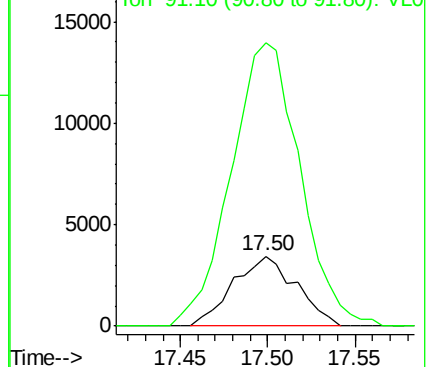
120 100

91 442.5 353.4 530.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.15 ppbv

RT: 18.82 min Scan# 2580

Delta R.T. -0.01 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

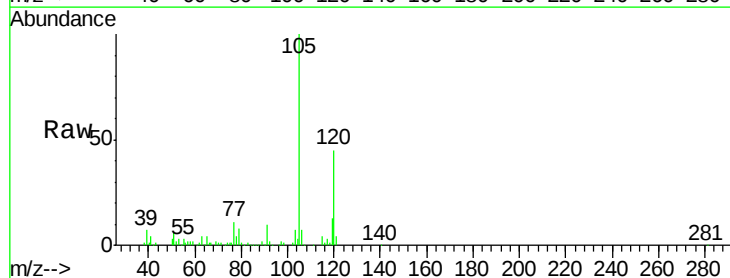
Tgt Ion:119 Resp: 37042

Ion Ratio Lower Upper

119 100

91 89.0 58.5 87.7#

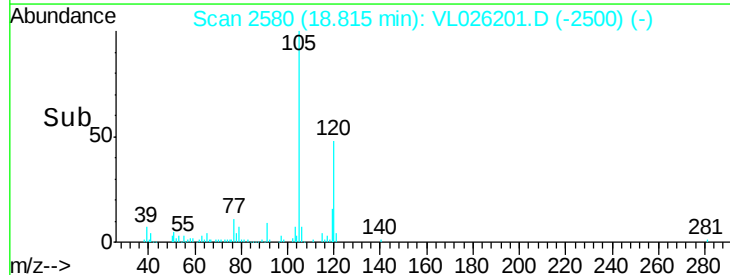
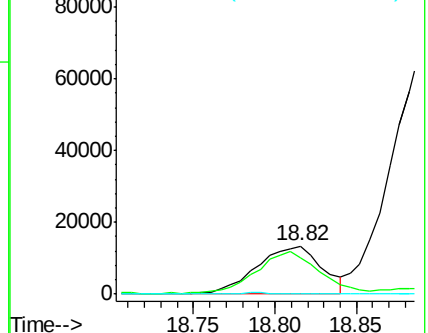
134 0.7 18.0 27.0#

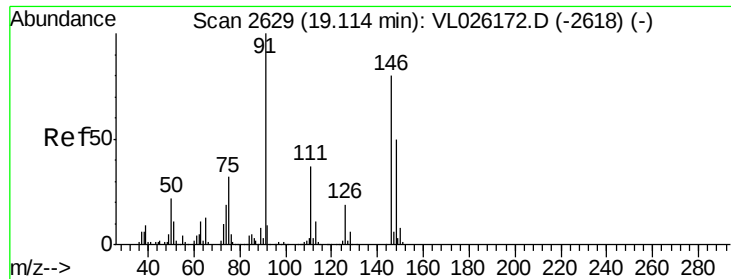


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

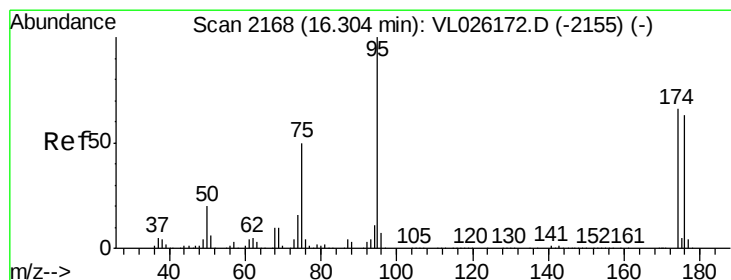
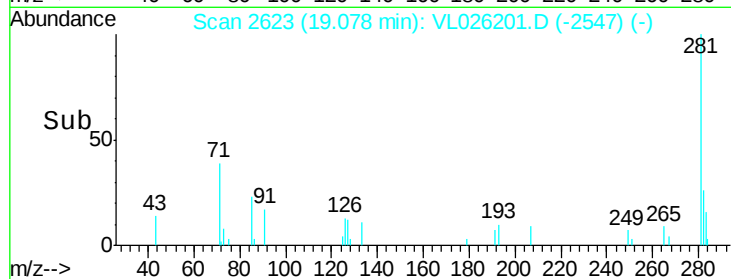
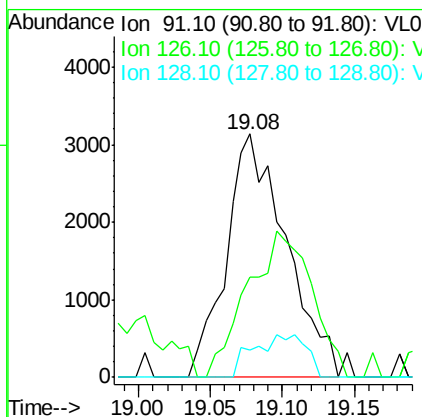
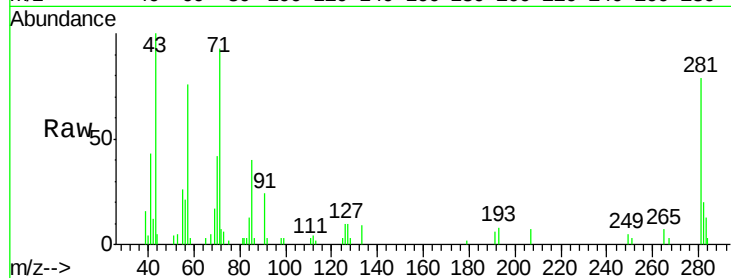




#66
Benzyl Chloride
Concen: 0.12 ppbv
RT: 19.08 min Scan# 2623
Delta R.T. -0.04 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

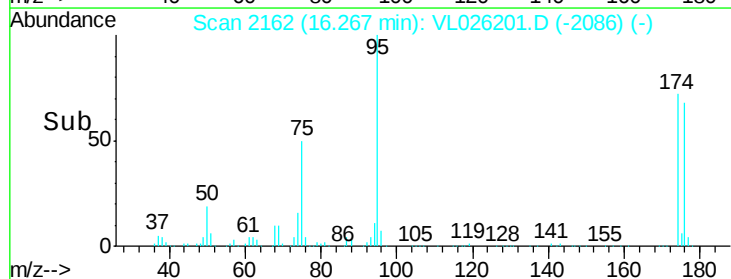
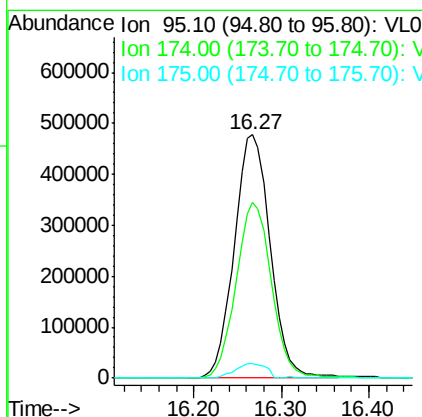
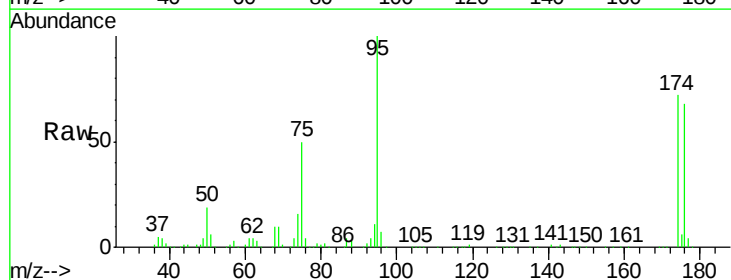
Instrument :
MSVOA_L
ClientSampleId :

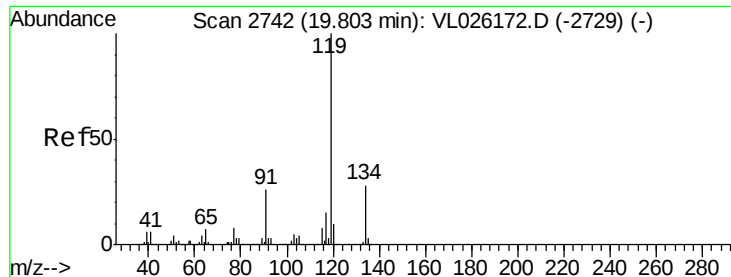
Tot Ion: 91 Resp: 9053
Ion Ratio Lower Upper
91 100
126 65.9 15.2 22.8#
128 15.6 4.8 7.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.97 ppbv
RT: 16.27 min Scan# 2162
Delta R.T. -0.04 min
Lab File: VL026201.D
Acq: 10 Oct 2015 7:35

Tgt Ion: 95 Resp: 1368653
Ion Ratio Lower Upper
95 100
174 71.6 52.2 78.4
175 5.2 3.9 5.9

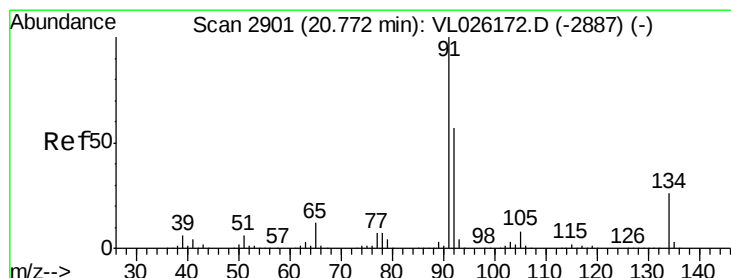
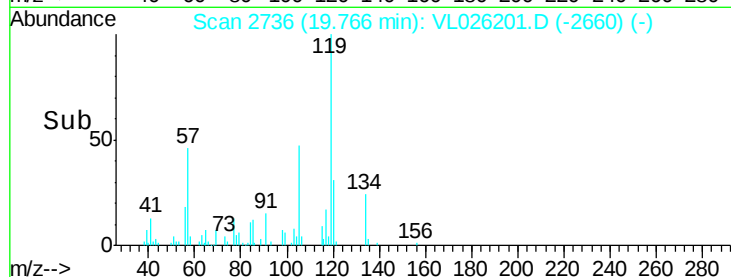
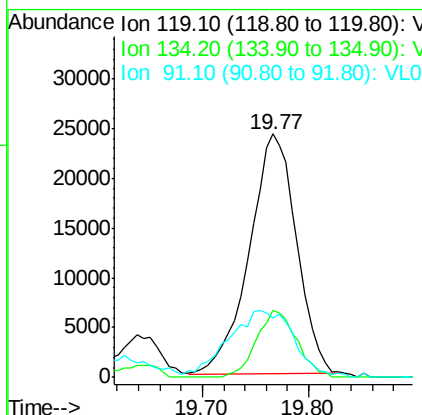
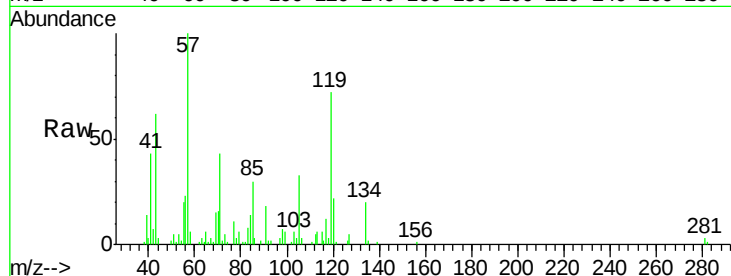




#69
 p-Isopropyltoluene
 Concen: 0.26 ppbv
 RT: 19.77 min Scan# 2736
 Delta R.T. -0.04 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

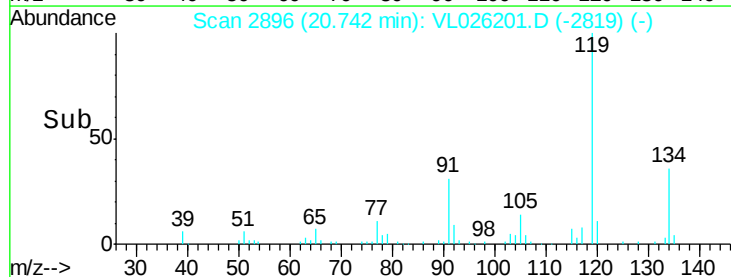
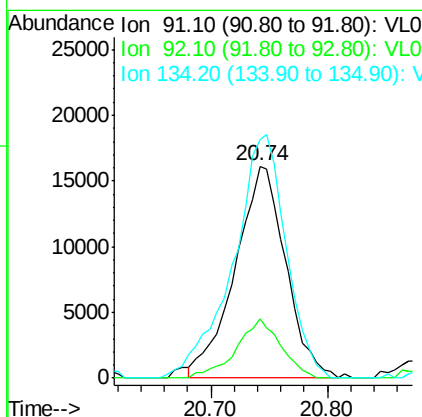
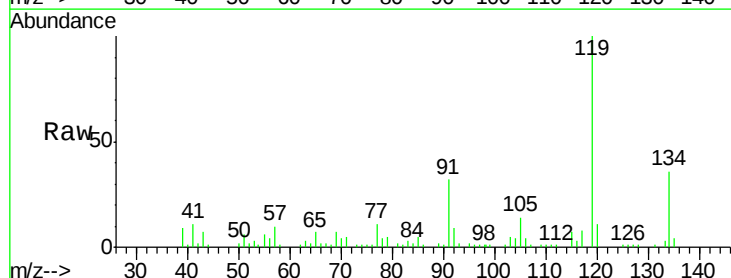
Instrument :
 MSVOA_L
 ClientSampleId :

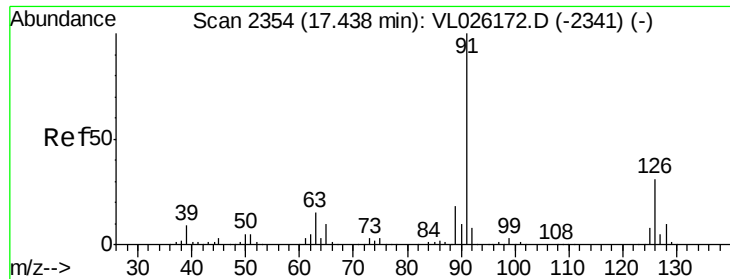
Tot Ion	Ratio	Lower	Upper
119	100		
134	23.7	21.4	32.0
91	38.3	19.9	29.9



#70
 n-Butylbenzene
 Concen: 0.18 ppbv
 RT: 20.74 min Scan# 2896
 Delta R.T. -0.03 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

Tgt Ion	Ratio	Lower	Upper
91	100		
92	24.6	45.0	67.6
134	120.2	19.8	29.8





#71

2-Chlorotoluene

Concen: 0.18 ppbv

RT: 17.50 min Scan# 2364

Delta R.T. 0.06 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Instrument :

MSVOA_L

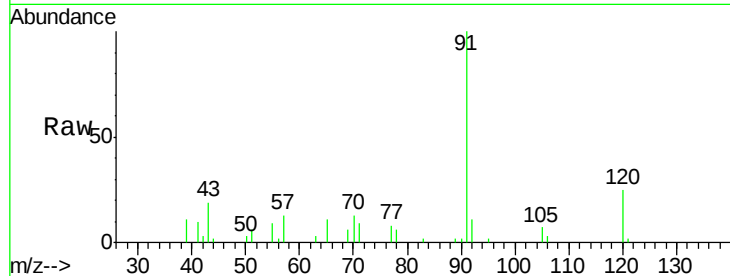
ClientSampleId :

Tot Ion: 91 Resp: 38216

Ion Ratio Lower Upper

91 100

126 0.0 12.8 51.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

17.50

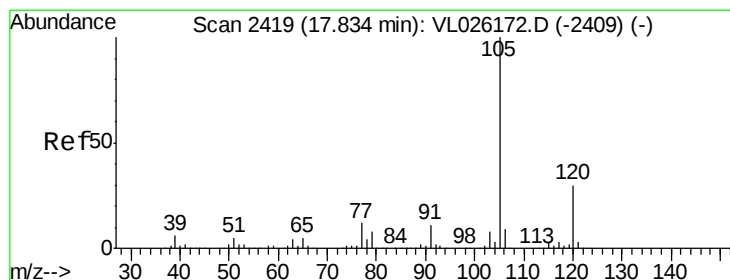
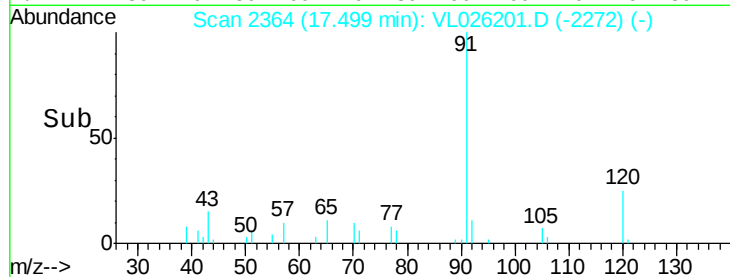
15000

10000

5000

0

Time-->



#72

4-Ethyltoluene

Concen: 0.21 ppbv

RT: 17.80 min Scan# 2414

Delta R.T. -0.03 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Tgt Ion: 105 Resp: 48308

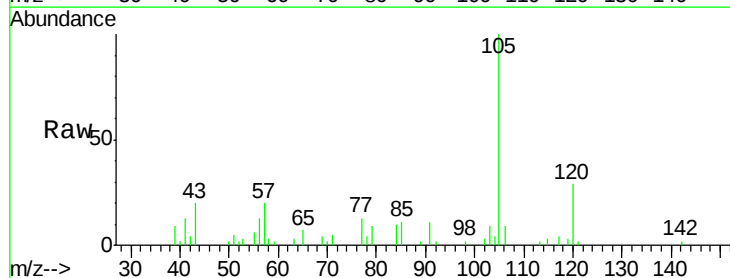
Ion Ratio Lower Upper

105 100

120 28.2 24.7 37.1

91 11.9 9.2 13.8

77 13.6 9.8 14.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

50000

40000

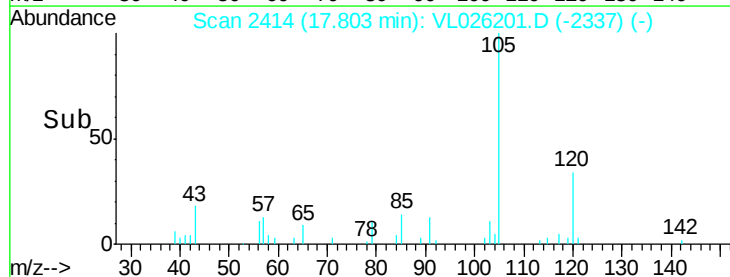
30000

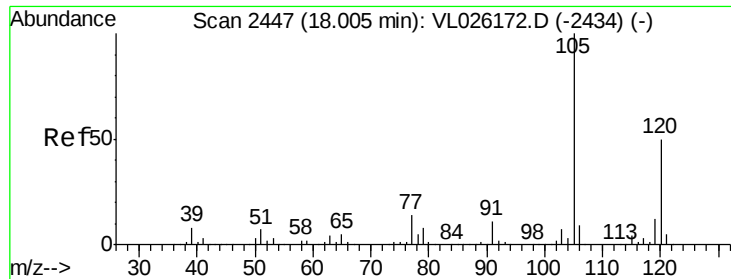
20000

10000

0

Time-->

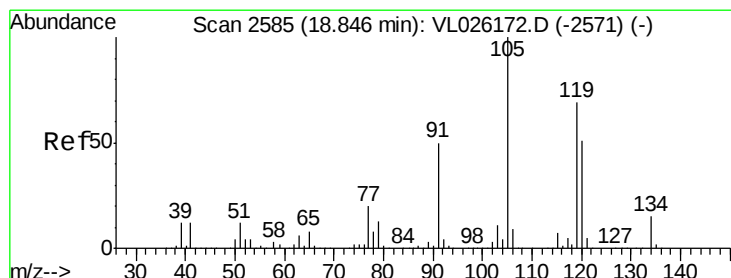
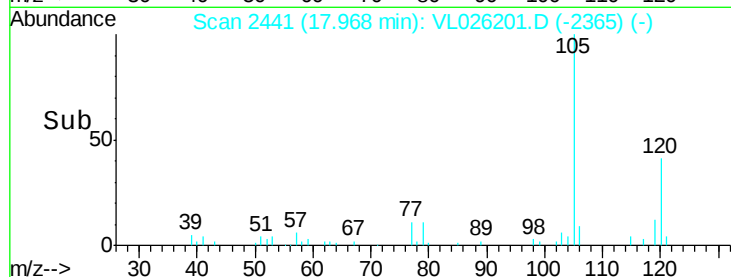
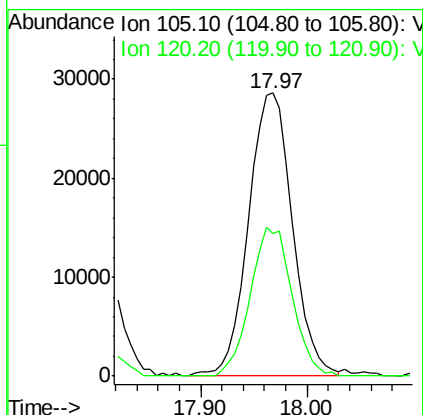
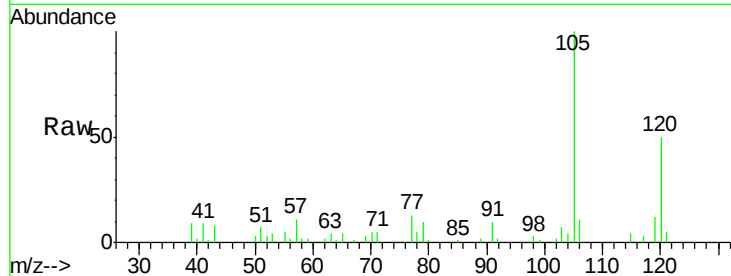




#73
 1,3,5-Trimethylbenzene
 Concen: 0.38 ppbv
 RT: 17.97 min Scan# 2441
 Delta R.T. -0.04 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

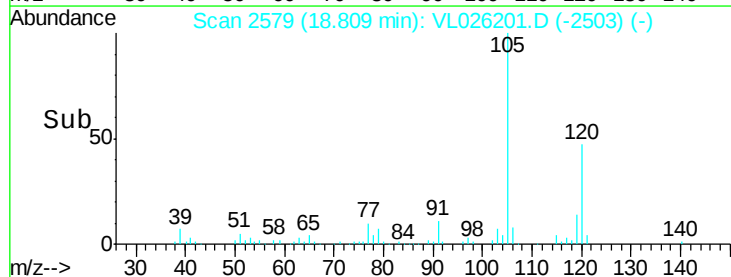
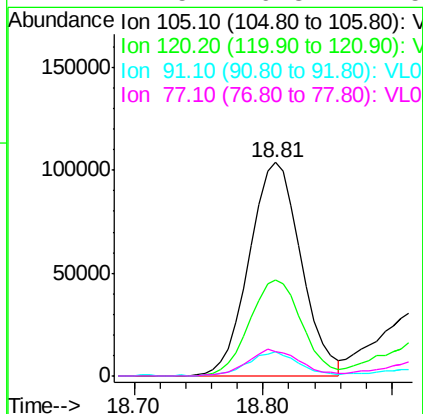
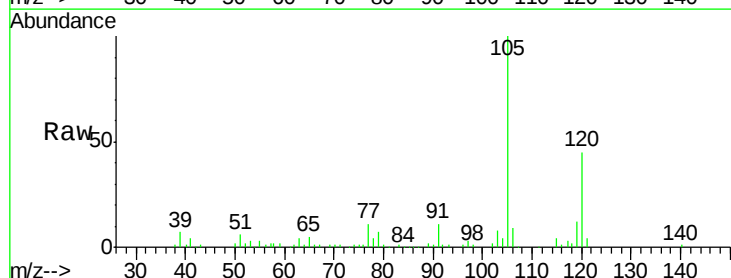
Instrument :
 MSVOA_L
 ClientSampleId :

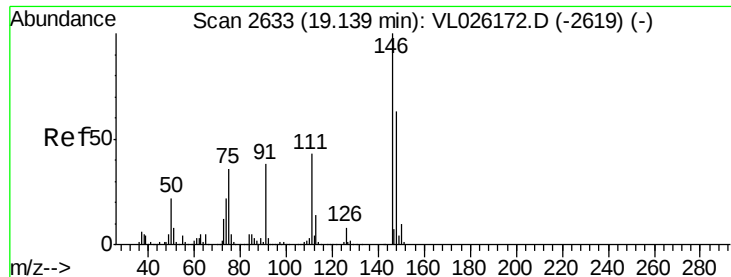
Tot Ion:105 Resp: 82767
 Ion Ratio Lower Upper
 105 100
 120 50.4 40.1 60.1



#74
 1,2,4-Trimethylbenzene
 Concen: 1.26 ppbv
 RT: 18.81 min Scan# 2579
 Delta R.T. -0.04 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

Tgt Ion:105 Resp: 289827
 Ion Ratio Lower Upper
 105 100
 120 44.8 41.1 61.7
 91 11.3 39.8 59.6#
 77 11.5 16.3 24.5#

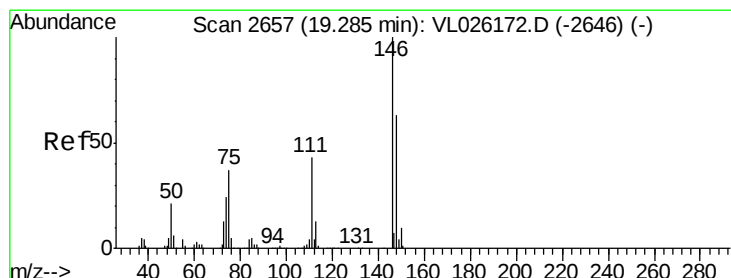
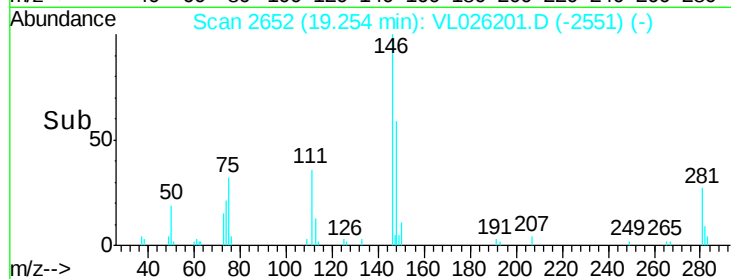
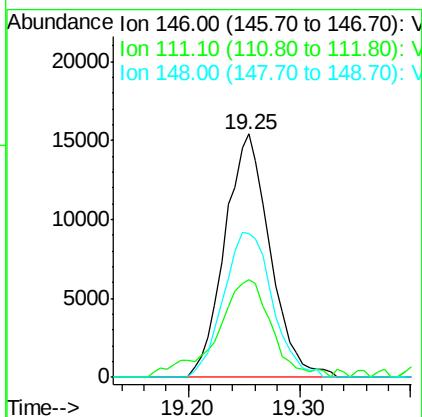
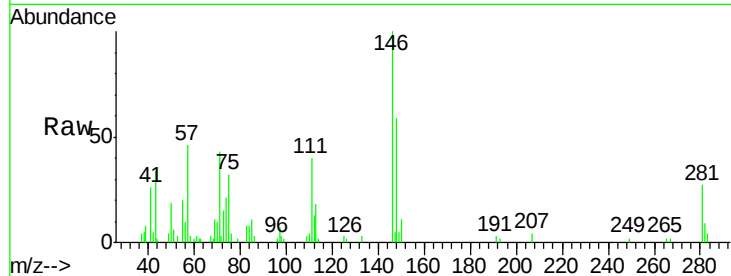




#75
 1,3-Dichlorobenzene
 Concen: 0.30 ppbv
 RT: 19.25 min Scan# 2652
 Delta R.T. 0.12 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

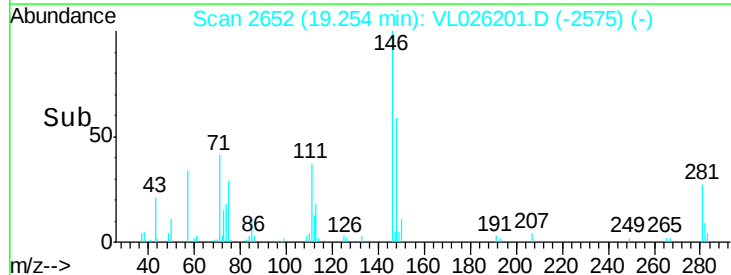
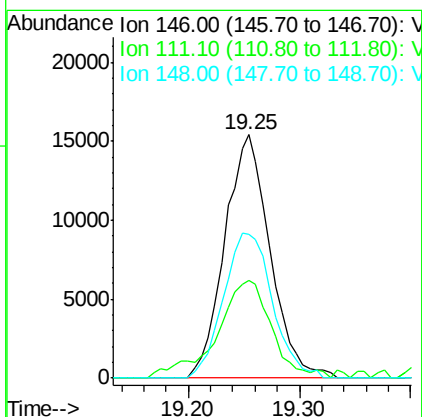
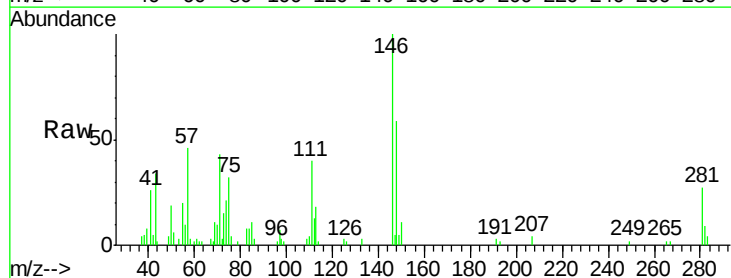
Instrument :
 MSVOA_L
 ClientSampleId :

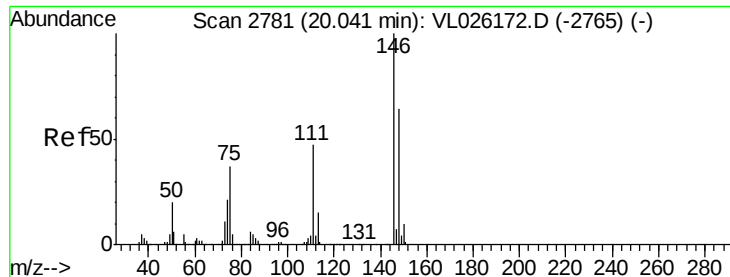
Tot Ion	Ratio	Lower	Upper
146	100		
111	49.2	22.1	66.3
148	64.3	31.9	95.5



#76
 1,4-Dichlorobenzene
 Concen: 0.29 ppbv
 RT: 19.25 min Scan# 2652
 Delta R.T. -0.03 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.2	21.3	63.9
148	64.3	31.6	94.8

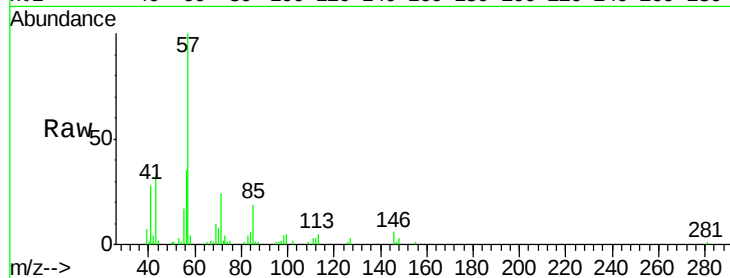




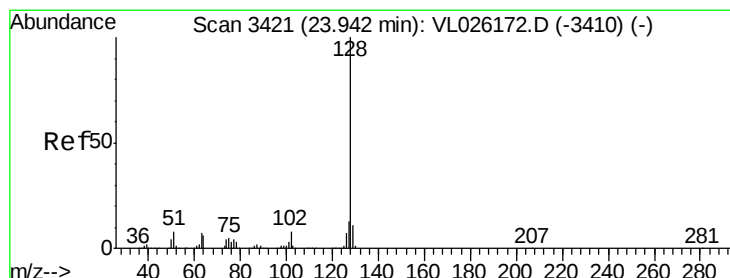
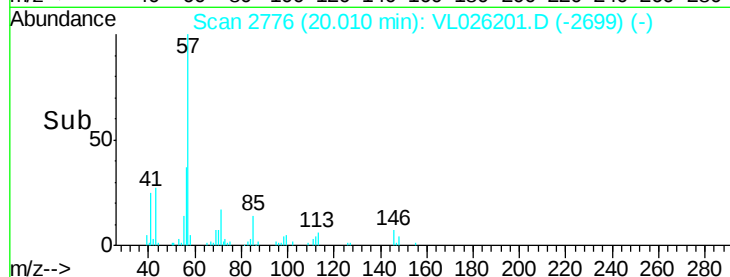
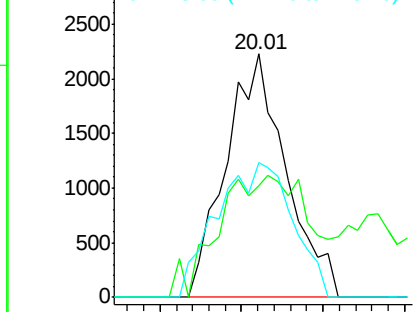
#77
 1,2-Dichlorobenzene
 Concen: 0.04 ppbv
 RT: 20.01 min Scan# 2776
 Delta R.T. -0.03 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:146 Resp: 5709
 Ion Ratio Lower Upper
 146 100
 111 116.7 23.0 69.0#
 148 70.0 31.8 95.3

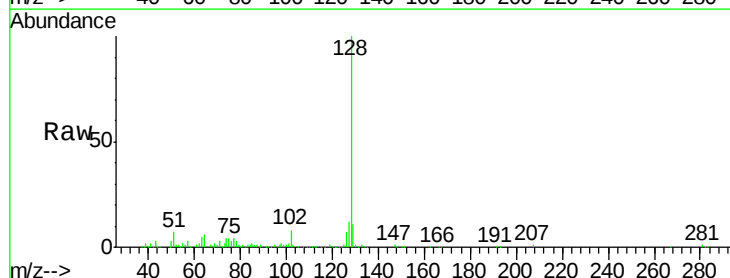


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

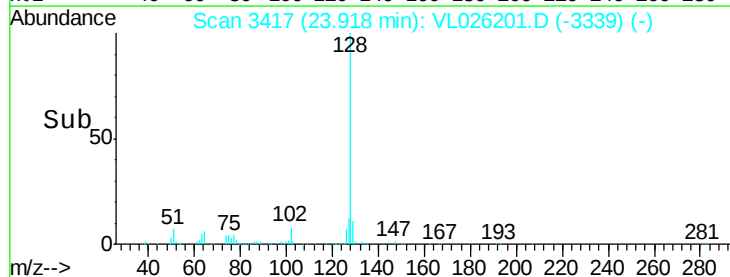
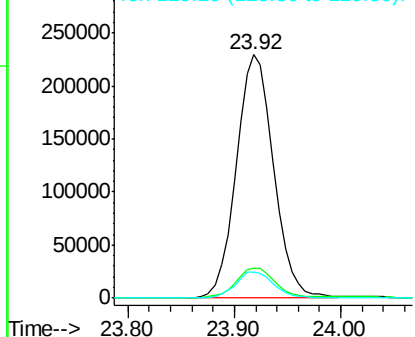


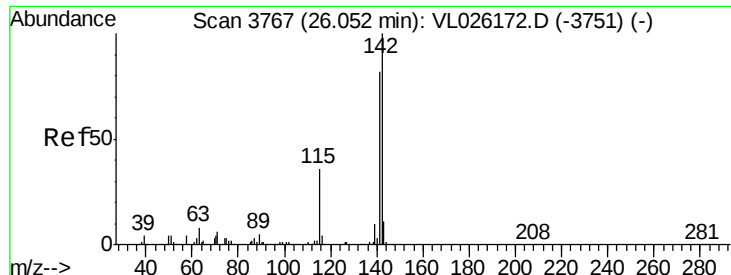
#79
 Naphthalene
 Concen: 3.91 ppbv
 RT: 23.92 min Scan# 3417
 Delta R.T. -0.02 min
 Lab File: VL026201.D
 Acq: 10 Oct 2015 7:35

Tgt Ion:128 Resp: 564292
 Ion Ratio Lower Upper
 128 100
 127 12.3 10.2 15.2
 129 10.7 8.7 13.1



Abundance Ion 128.10 (127.80 to 128.80): V
 Ion 127.10 (126.80 to 127.80): V
 Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.04 ppbv

RT: 26.03 min Scan# 3764

Delta R.T. -0.02 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

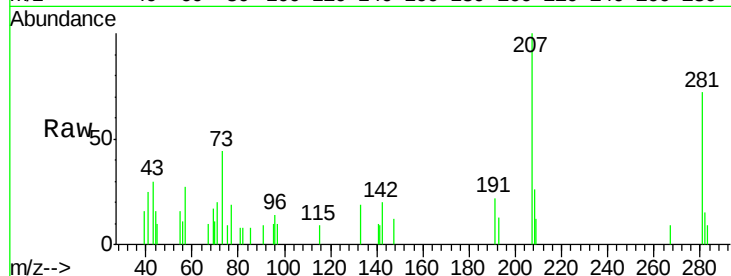
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:142 Resp: 1420

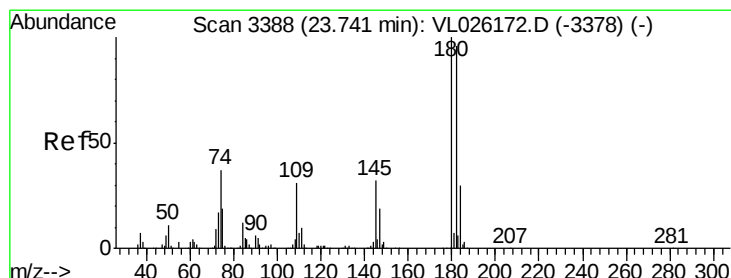
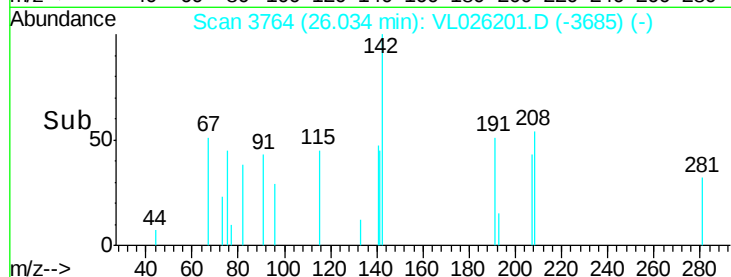
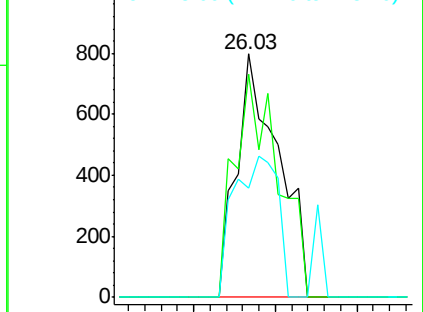
Ion	Ratio	Lower	Upper
142	100		
141	96.4	66.6	99.8
115	68.7	28.4	42.6#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 1.13 ppbv

RT: 23.22 min Scan# 3303

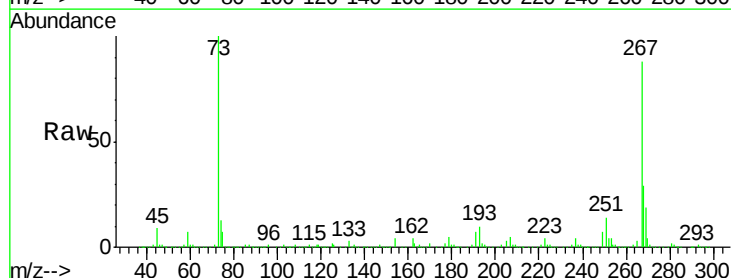
Delta R.T. -0.52 min

Lab File: VL026201.D

Acq: 10 Oct 2015 7:35

Tgt Ion:180 Resp: 80602

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.4	114.6#
184	0.3	24.0	36.0#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

