

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026193.D
 Acq On : 10 Oct 2015 2:15
 Operator : SY/MD
 Sample : G3973-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 12 02:07:49 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	6.65	49	298625	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	1019522	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.74	117	1024976	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.29	95	819544	10.42	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

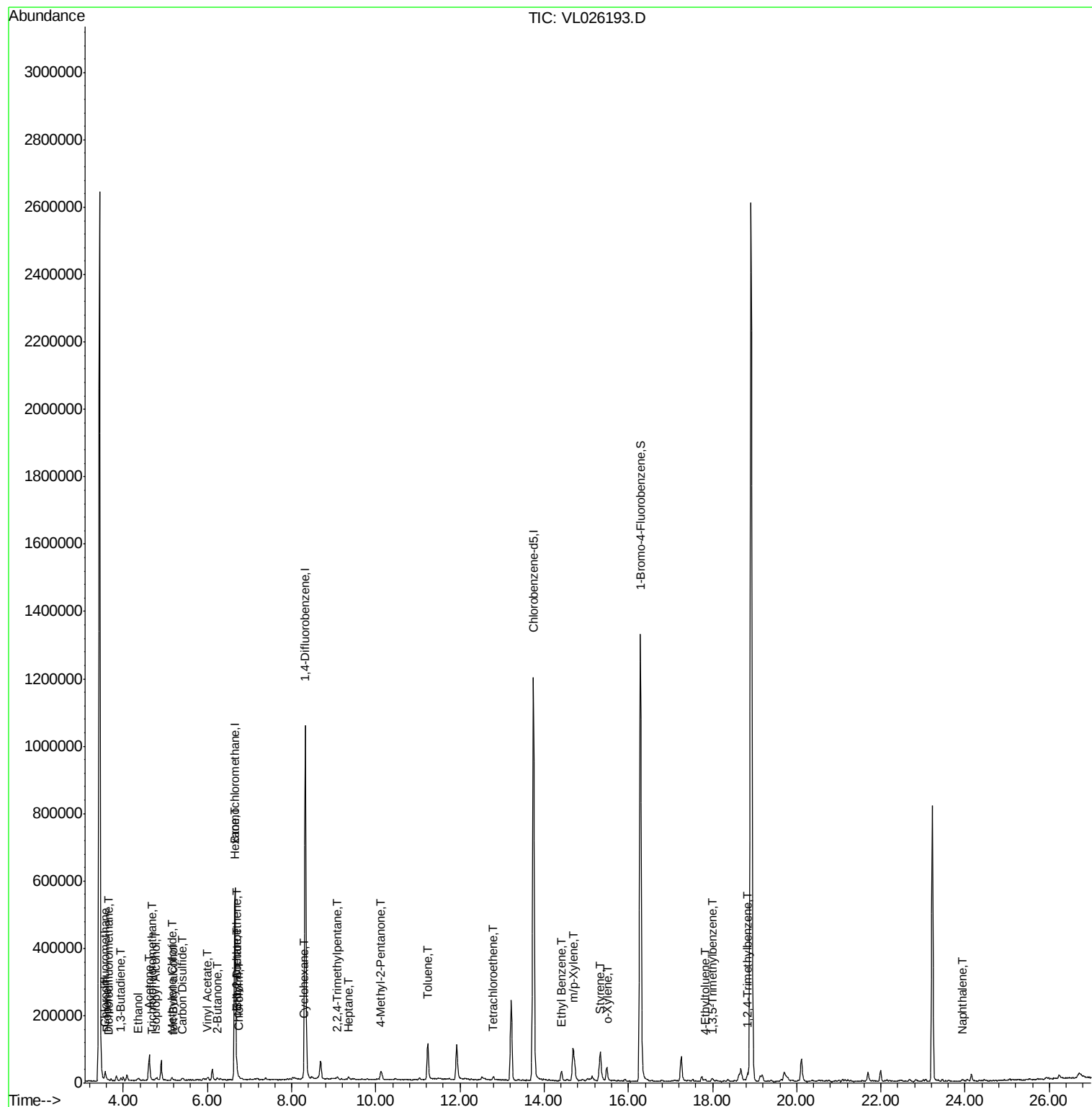
Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	4689	0.08	ppbv	97
3) Chlorodifluoromethane	3.57	51	33104	0.95	ppbv	99
9) Propene	3.60	41	3028	0.19	ppbv #	71
10) Heptane	9.35	43	2181	0.04	ppbv #	26
11) Trichlorofluoromethane	4.70	101	1965	0.04	ppbv	92
13) Ethanol	4.35	45	5303	2.25	ppbv	85
15) Acetone	4.62	43	81642	2.12	ppbv	98
16) 1,3-Butadiene	3.95	39	2271	0.13	ppbv #	7
17) tert-Butyl alcohol	5.20	59	1588	0.07	ppbv #	34
19) Isopropyl Alcohol	4.76	45	524	0.03	ppbv #	1
20) Methylene Chloride	5.16	84	4380	0.27	ppbv #	67
23) Vinyl Acetate	6.01	43	7915	0.12	ppbv #	62
25) Ethyl Acetate	6.70	43	26944	0.36	ppbv #	90
26) Hexane	6.67	57	2776	0.08	ppbv #	1
27) Carbon Disulfide	5.40	76	8716	0.20	ppbv #	84
29) Chloroform	6.74	83	4673	0.09	ppbv	95
30) Cyclohexane	8.28	84	7895	0.23	ppbv #	28
31) cis-1,2-Dichloroethene	6.70	61	2964	0.09	ppbv #	21
34) 2-Butanone	6.23	43	8444	0.15	ppbv	95
44) 2,2,4-Trimethylpentane	9.09	57	6356	0.04	ppbv #	53
50) 4-Methyl-2-Pentanone	10.12	43	23926	0.32	ppbv	95
52) Tetrachloroethene	12.79	164	3121	0.06	ppbv #	82
53) Toluene	11.24	91	106653	0.85	ppbv	99
58) Ethyl Benzene	14.41	91	38409	0.26	ppbv	96
59) m/p-Xylene	14.69	91	128941	1.08	ppbv	97
60) o-Xylene	15.49	91	40504	0.32	ppbv	95
61) Styrene	15.31	104	21933	0.43	ppbv	93
72) 4-Ethyltoluene	17.82	105	8706	0.07	ppbv #	81
73) 1,3,5-Trimethylbenzene	17.99	105	8896	0.07	ppbv	88
74) 1,2,4-Trimethylbenzene	18.83	105	24225	0.18	ppbv #	69
79) Naphthalene	23.95	128	5159	0.06	ppbv #	82

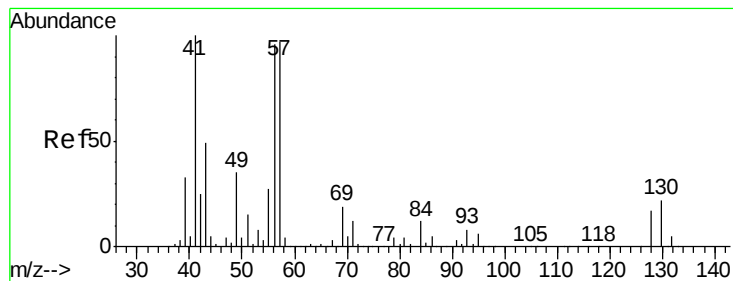
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 09 16:23:14 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. -0.01 min

Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Instrument :

MSVOA_L

ClientSampleId :

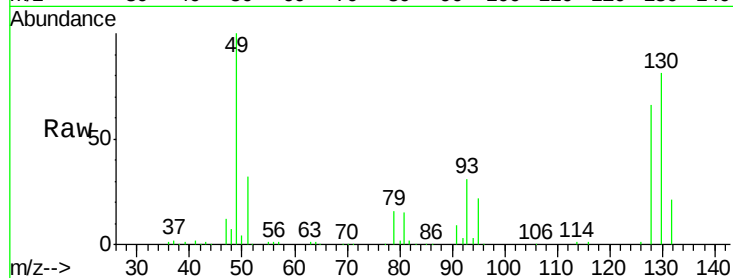
Tot Ion: 49 Resp: 298625

Ion Ratio Lower Upper

49 100

128 66.9 26.3 78.8

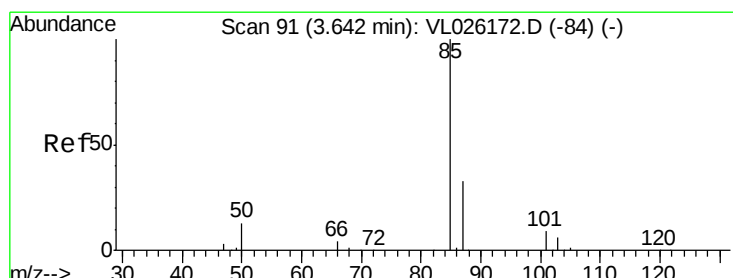
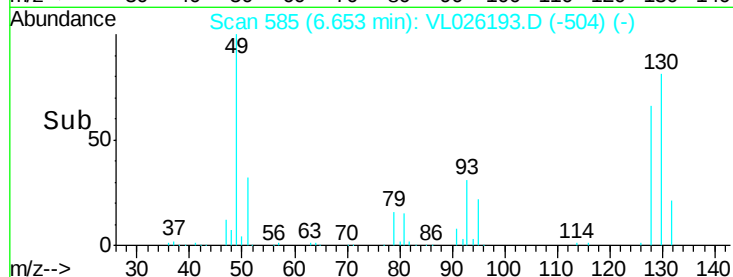
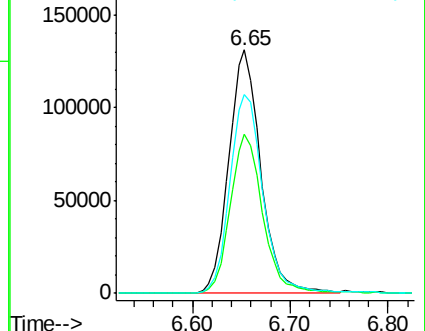
130 85.3 34.2 102.5



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: 0.08 ppbv

RT: 3.64 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL026193.D

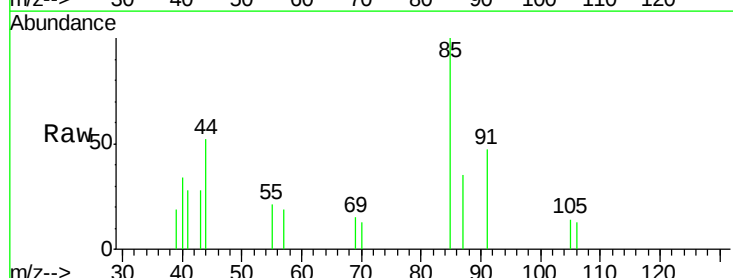
Acq: 10 Oct 2015 2:15

Tgt Ion: 85 Resp: 4689

Ion Ratio Lower Upper

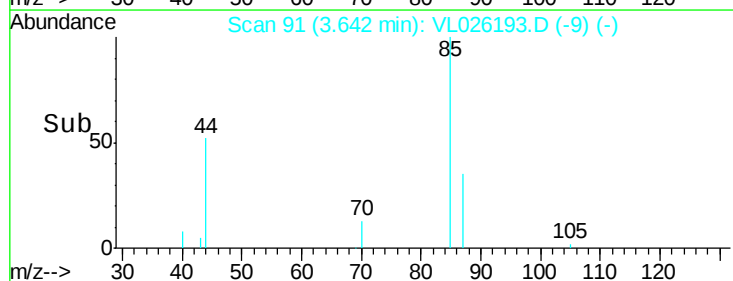
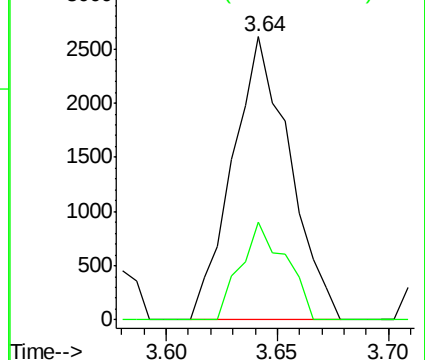
85 100

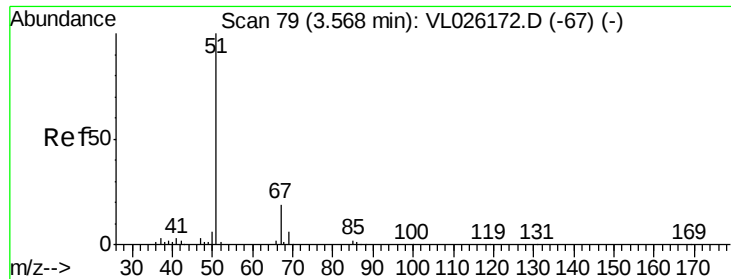
87 34.6 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.95 ppbv

RT: 3.57 min Scan# 79

Delta R.T. 0.00 min

Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Instrument :

MSVOA_L

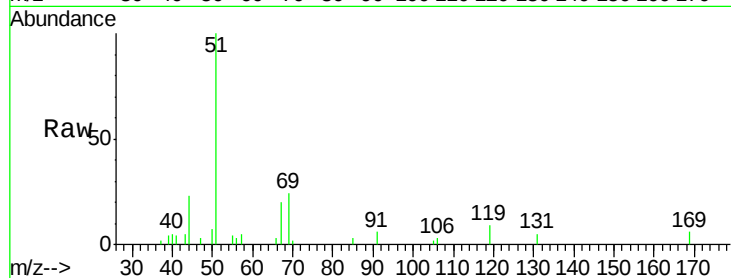
ClientSampled :

Tot Ion: 51 Resp: 33104

Ion Ratio Lower Upper

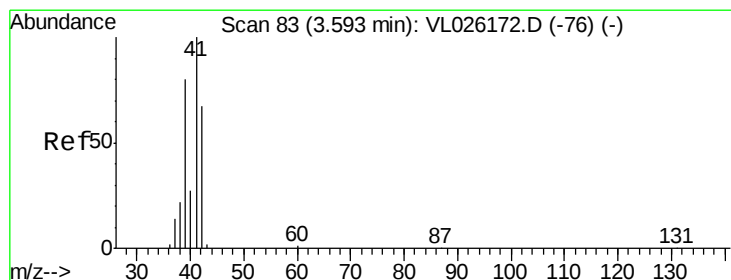
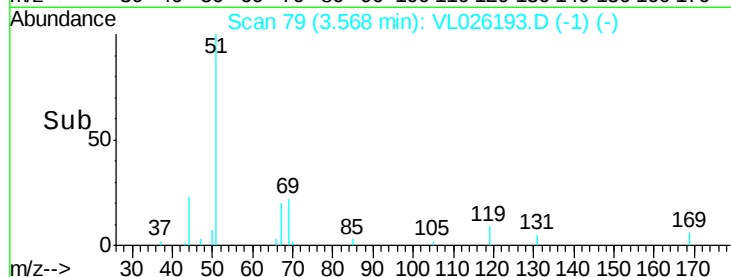
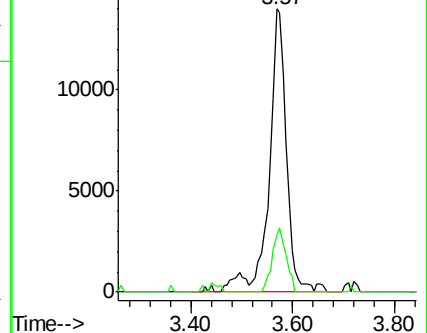
51 100

67 18.0 14.9 22.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.19 ppbv

RT: 3.60 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL026193.D

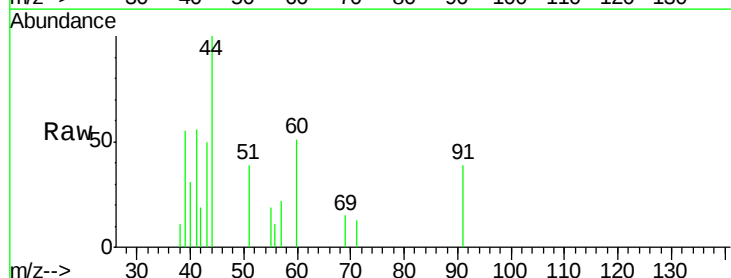
Acq: 10 Oct 2015 2:15

Tgt Ion: 41 Resp: 3028

Ion Ratio Lower Upper

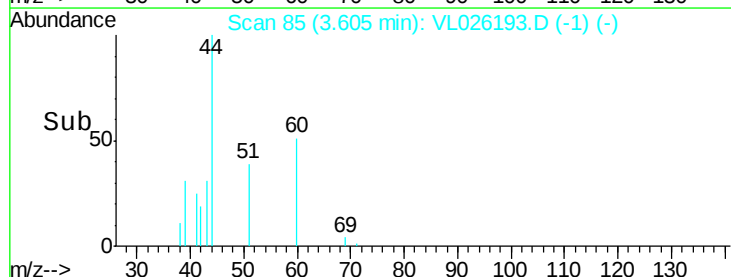
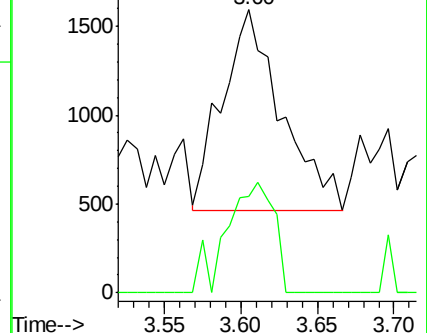
41 100

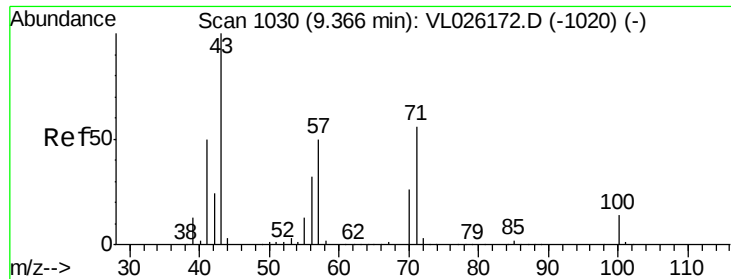
42 44.0 53.6 80.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

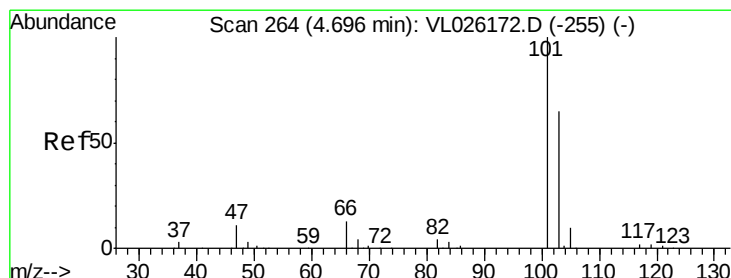
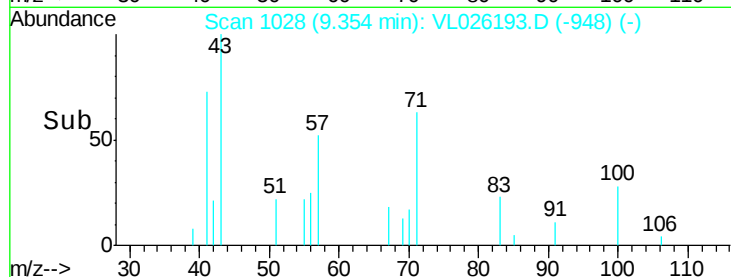
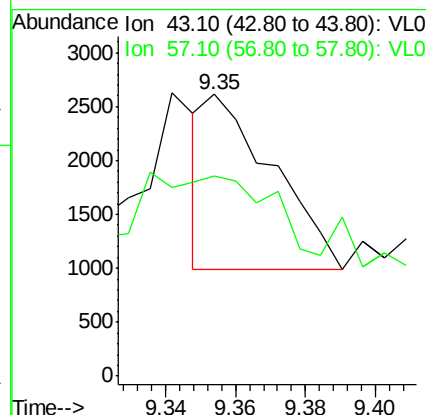
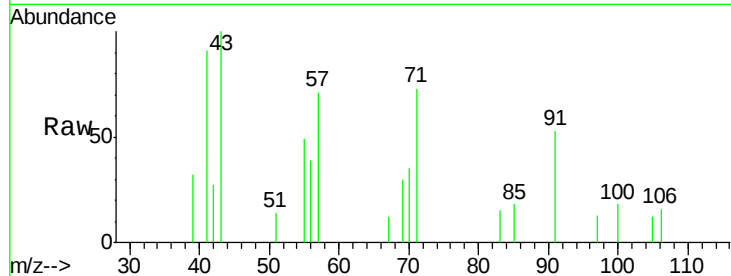




#10
Heptane
Concen: 0.04 ppbv
RT: 9.35 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VL026193.D
Acq: 10 Oct 2015 2:15

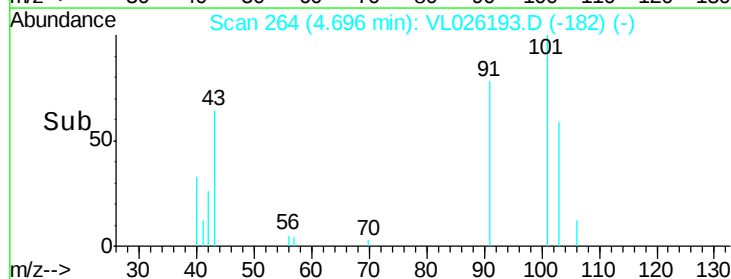
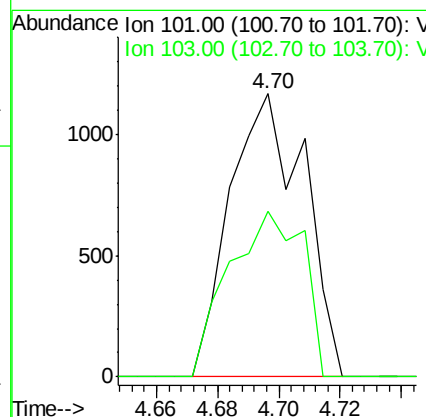
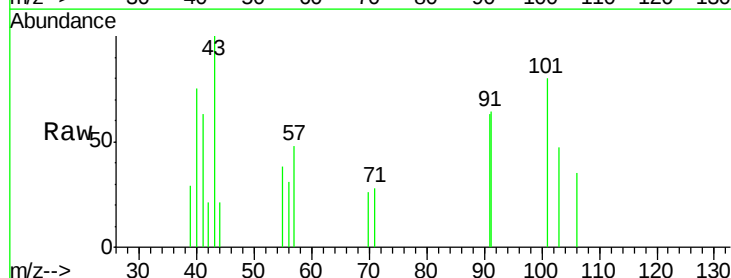
Instrument :
MSVOA_L
ClientSampleId :

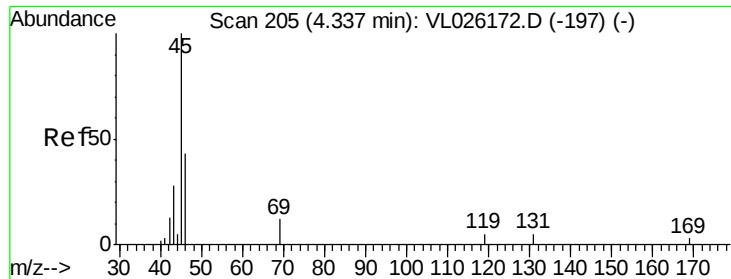
Tot Ion: 43 Resp: 2181
Ion Ratio Lower Upper
43 100
57 0.0 41.8 62.8#



#11
Trichlorofluoromethane
Concen: 0.04 ppbv
RT: 4.70 min Scan# 264
Delta R.T. 0.00 min
Lab File: VL026193.D
Acq: 10 Oct 2015 2:15

Tgt Ion: 101 Resp: 1965
Ion Ratio Lower Upper
101 100
103 58.6 51.9 77.9





#13

Ethanol

Concen: 2.25 ppbv

RT: 4.35 min Scan# 208

Delta R.T. 0.02 min

Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Instrument :

MSVOA_L

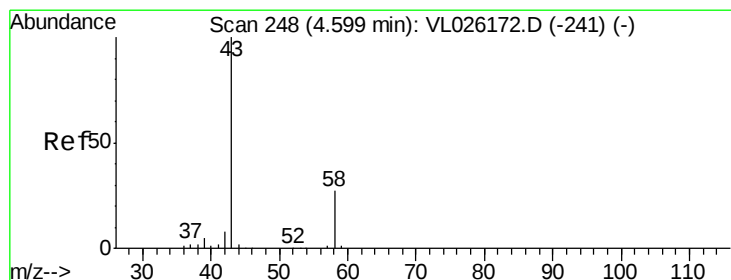
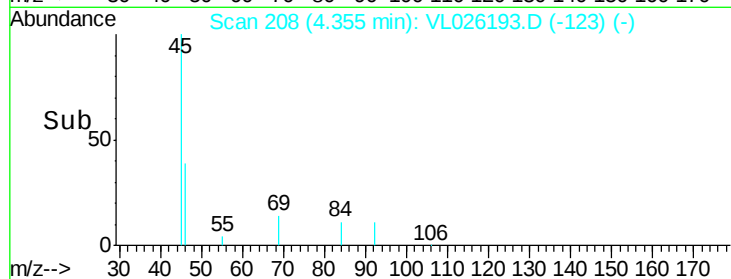
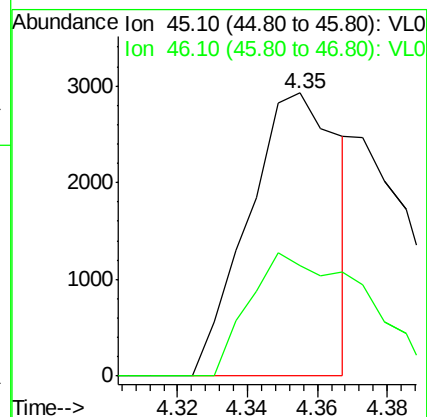
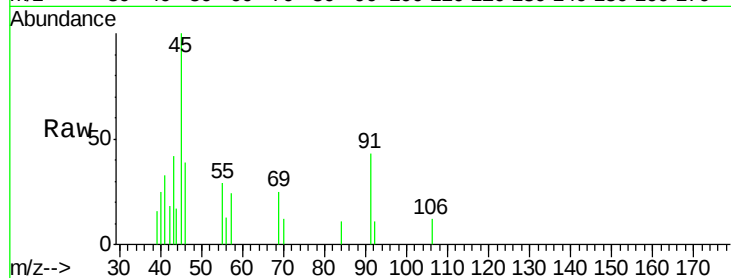
ClientSampled :

Tot Ion: 45 Resp: 5303

Ion Ratio Lower Upper

45 100

46 54.9 18.1 72.5



#15

Acetone

Concen: 2.12 ppbv

RT: 4.62 min Scan# 251

Delta R.T. 0.02 min

Lab File: VL026193.D

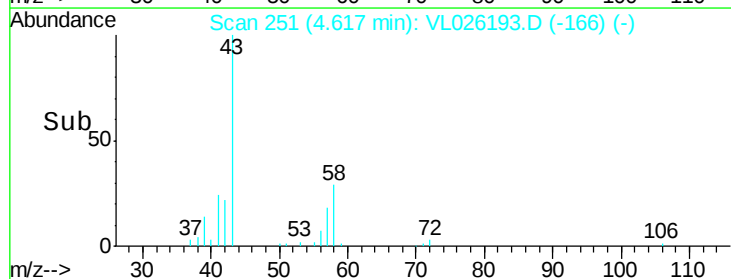
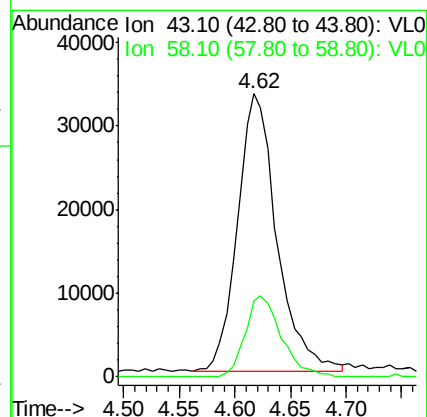
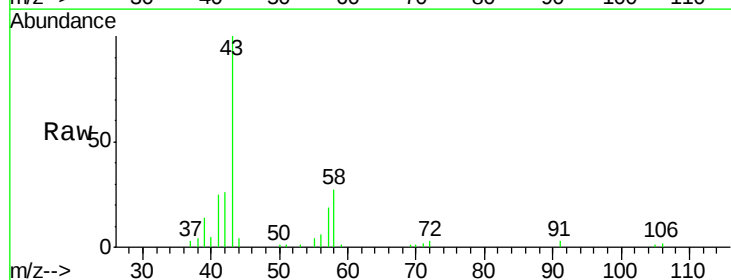
Acq: 10 Oct 2015 2:15

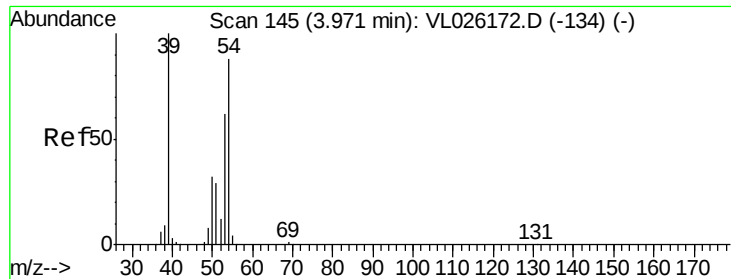
Tgt Ion: 43 Resp: 81642

Ion Ratio Lower Upper

43 100

58 26.7 22.0 33.0

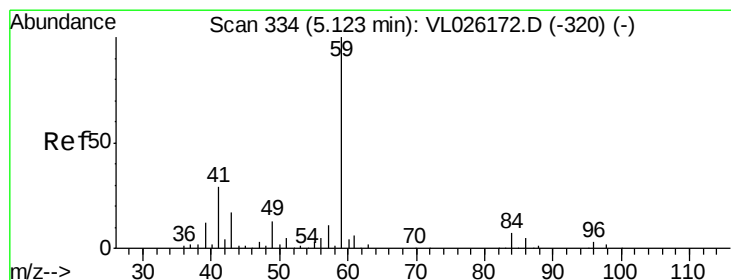
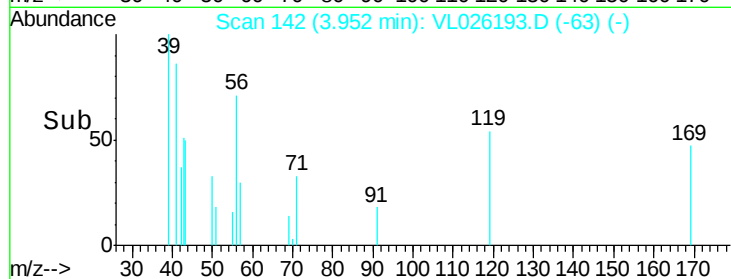
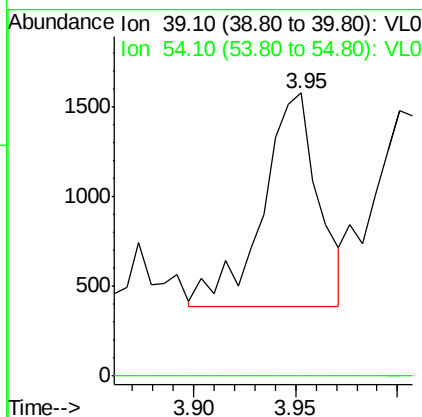
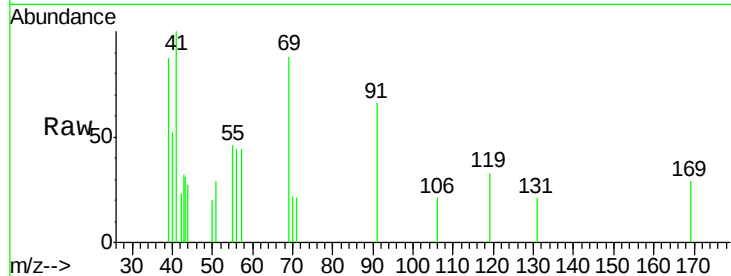




#16
 1,3-Butadiene
 Concen: 0.13 ppbv
 RT: 3.95 min Scan# 142
 Delta R.T. -0.02 min
 Lab File: VL026193.D
 Acq: 10 Oct 2015 2:15

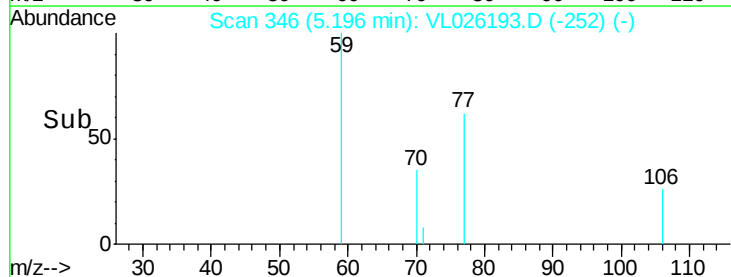
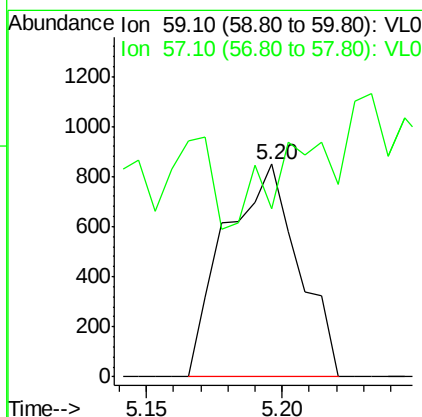
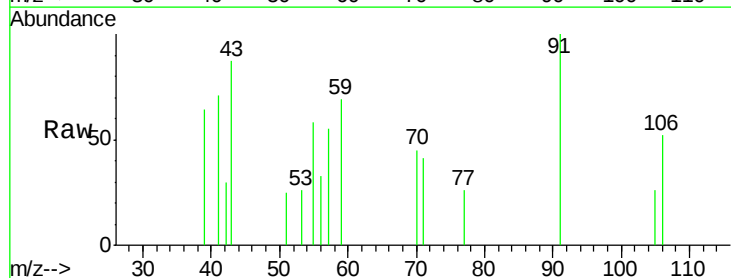
Instrument :
 MSVOA_L
 ClientSampled :

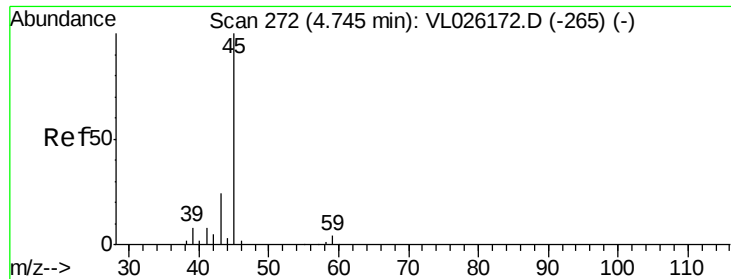
Tot Ion: 39 Resp: 2271
 Ion Ratio Lower Upper
 39 100
 54 0.0 67.9 101.9#



#17
 tert-Butyl alcohol
 Concen: 0.07 ppbv
 RT: 5.20 min Scan# 346
 Delta R.T. 0.07 min
 Lab File: VL026193.D
 Acq: 10 Oct 2015 2:15

Tgt Ion: 59 Resp: 1588
 Ion Ratio Lower Upper
 59 100
 57 36.0 8.8 13.2#



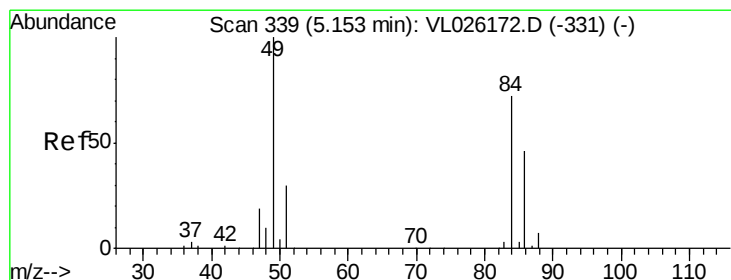
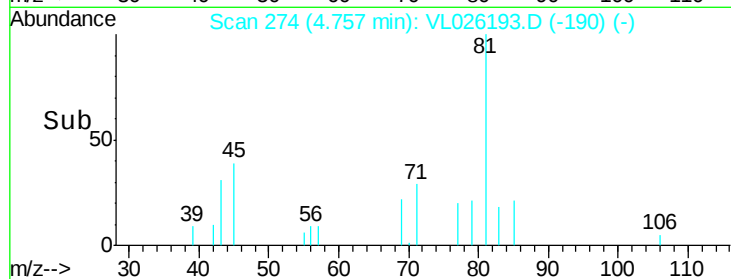
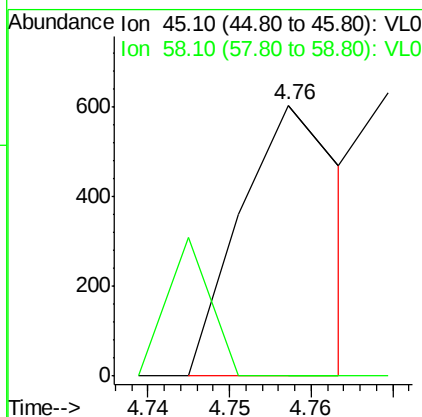
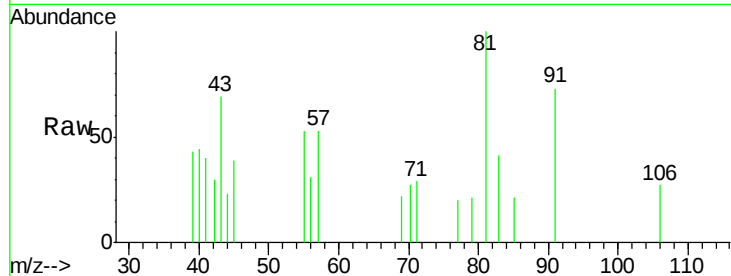


#19

Isopropyl Alcohol
 Concen: 0.03 ppbv
 RT: 4.76 min Scan# 274
 Delta R.T. 0.01 min
 Lab File: VL026193.D
 Acq: 10 Oct 2015 2:15

Instrument :
 MSVOA_L
 ClientSampleId :

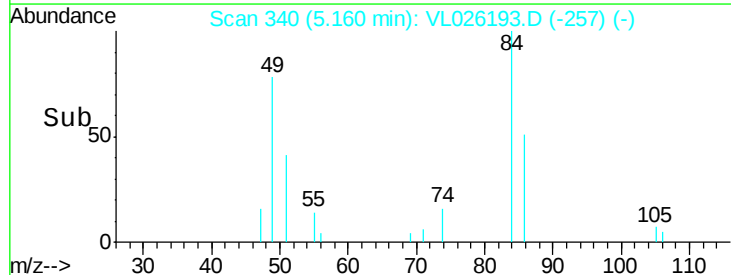
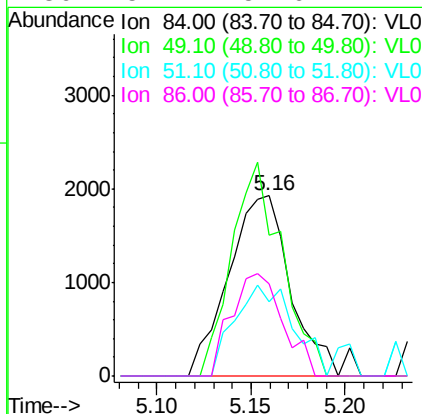
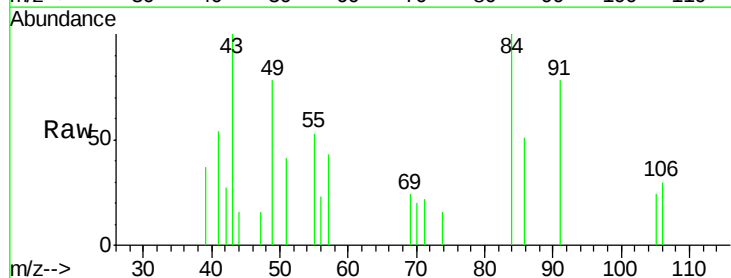
Tot Ion: 45 Resp: 524
 Ion Ratio Lower Upper
 45 100
 58 4158.6 1.7 2.5#

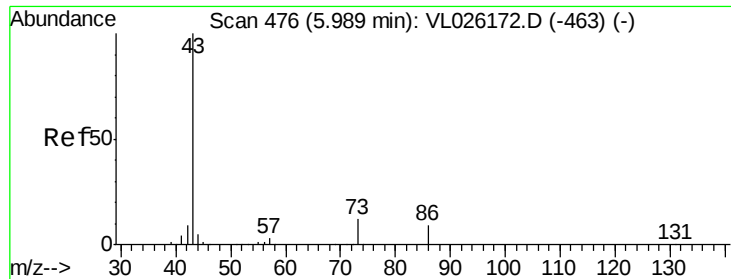


#20

Methylene Chloride
 Concen: 0.27 ppbv
 RT: 5.16 min Scan# 340
 Delta R.T. 0.01 min
 Lab File: VL026193.D
 Acq: 10 Oct 2015 2:15

Tgt Ion: 84 Resp: 4380
 Ion Ratio Lower Upper
 84 100
 49 77.9 111.3 166.9#
 51 41.2 33.0 49.6
 86 51.1 51.6 77.4#





#23

Vinyl Acetate

Concen: 0.12 ppbv

RT: 6.01 min Scan# 479

Delta R.T. 0.02 min

Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 7915

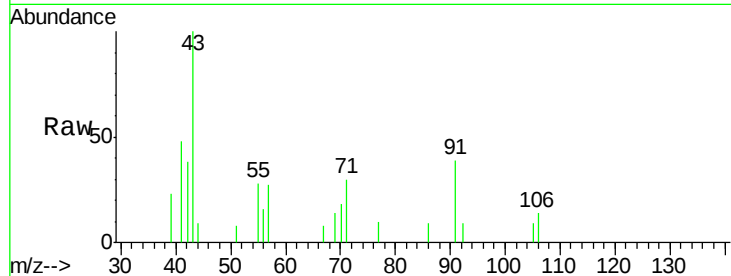
Ion Ratio Lower Upper

43 100

86 11.3 7.2 10.8#

42 38.2 7.4 11.2#

44 11.3 3.9 5.9#

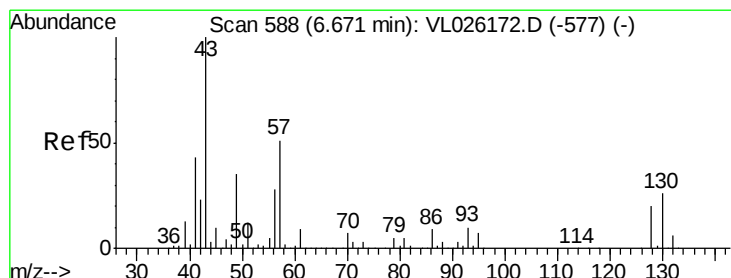
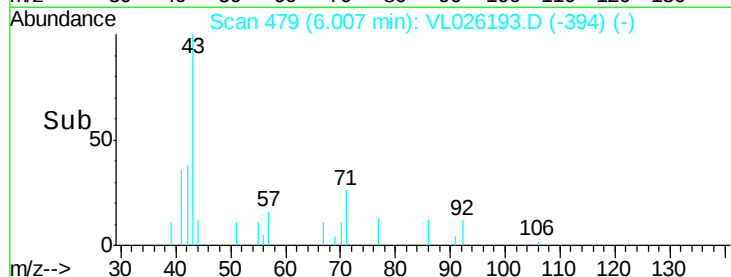
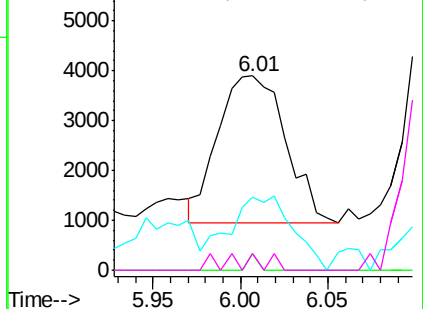


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.36 ppbv

RT: 6.70 min Scan# 592

Delta R.T. 0.02 min

Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Tgt Ion: 43 Resp: 26944

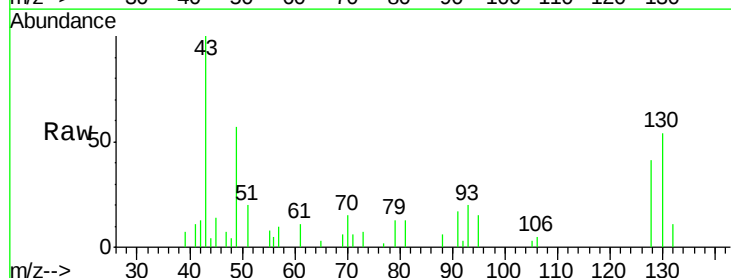
Ion Ratio Lower Upper

43 100

45 13.1 7.7 11.5#

61 11.0 7.4 11.2

70 14.5 6.6 9.8#

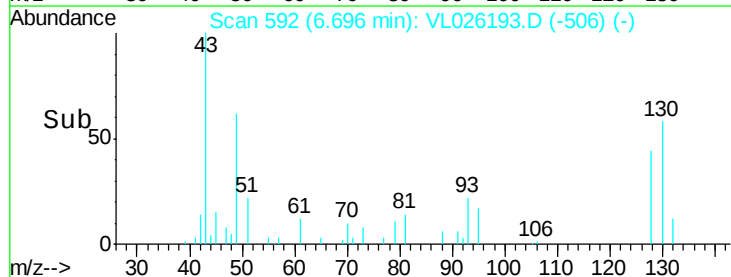
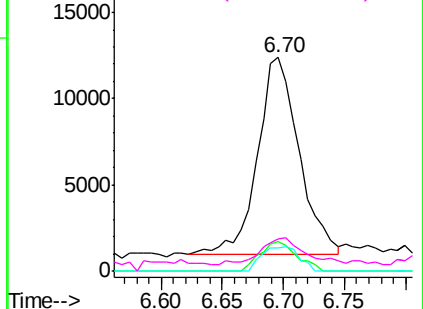


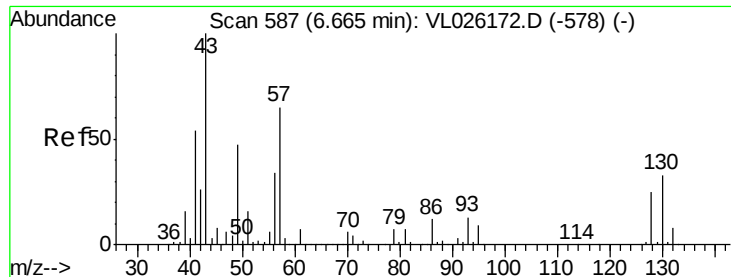
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 0.08 ppbv

RT: 6.67 min Scan# 587

Delta R.T. -0.00 min

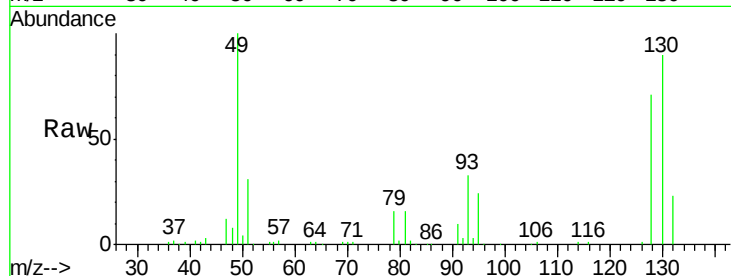
Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 2776

Ion	Ratio	Lower	Upper
57	100		
41	234.9	68.0	102.0#
43	0.0	164.4	246.6#
56	151.5	42.7	64.1#

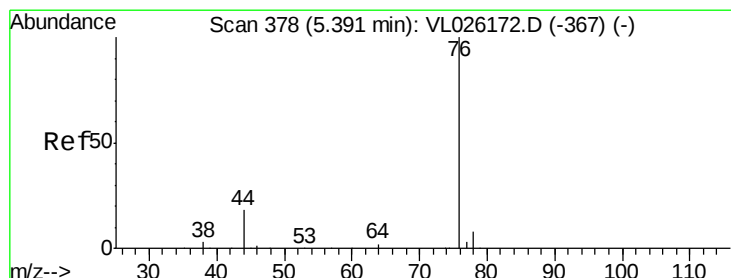
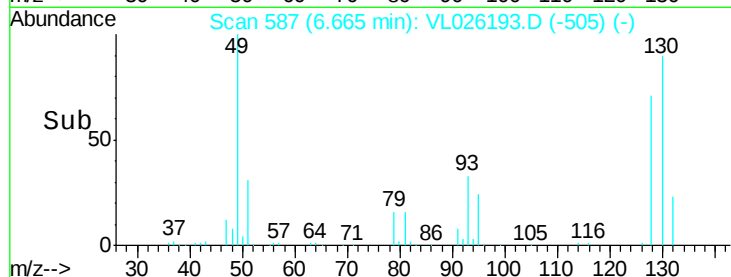
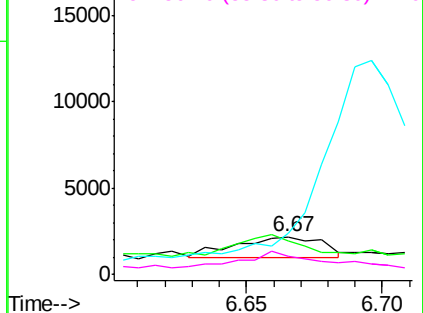


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.20 ppbv

RT: 5.40 min Scan# 379

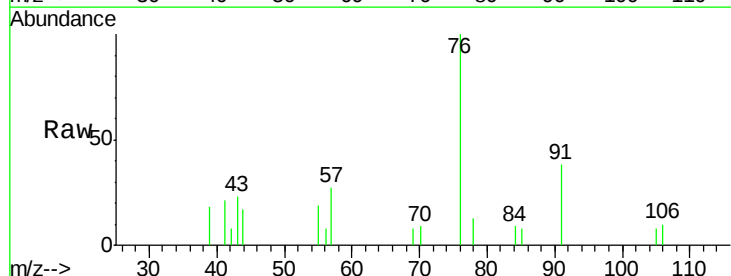
Delta R.T. 0.01 min

Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Tgt Ion: 76 Resp: 8716

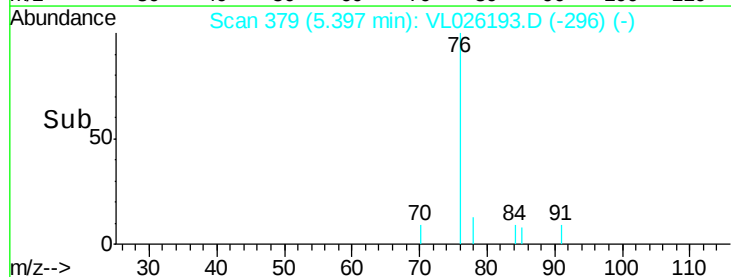
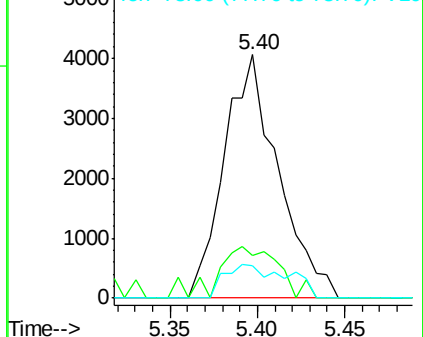
Ion	Ratio	Lower	Upper
76	100		
44	24.1	14.2	21.4#
78	16.1	7.5	11.3#

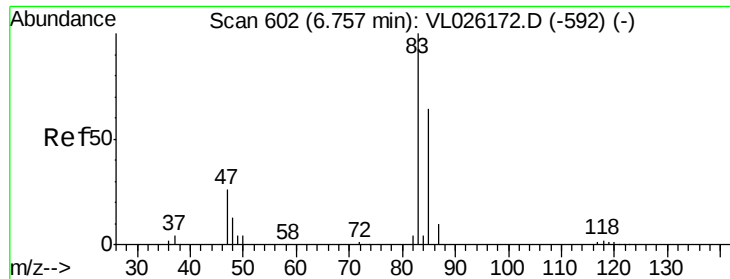


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

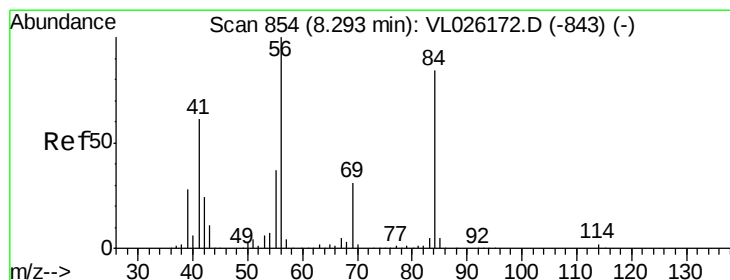
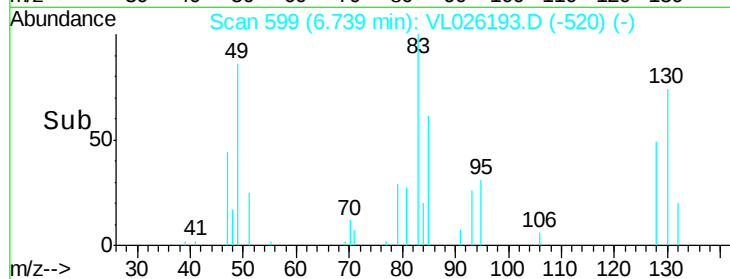
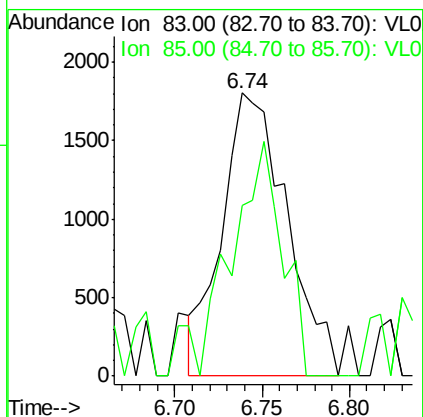
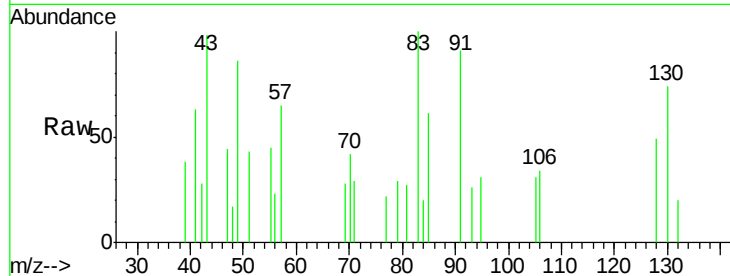




#29
Chloroform
Concen: 0.09 ppbv
RT: 6.74 min Scan# 599
Delta R.T. -0.02 min
Lab File: VL026193.D
Acq: 10 Oct 2015 2:15

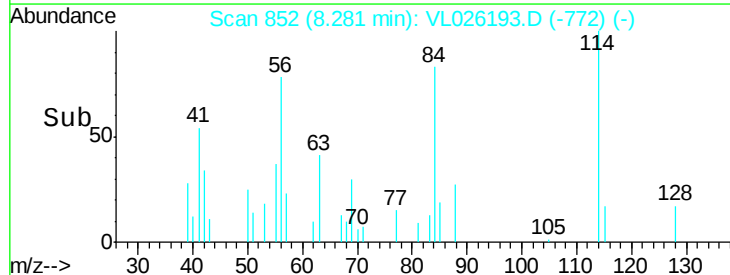
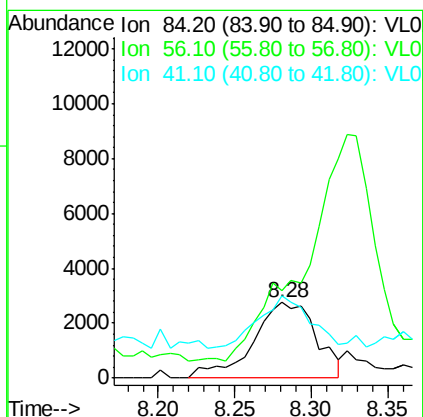
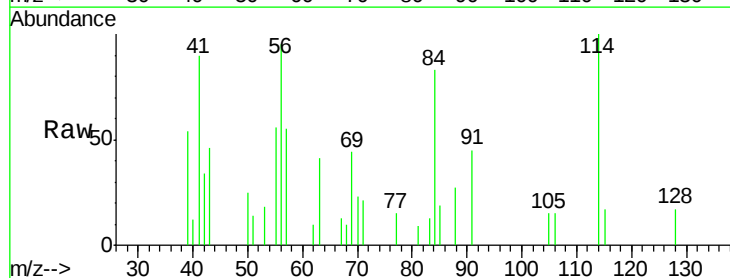
Instrument :
MSVOA_L
ClientSampled :

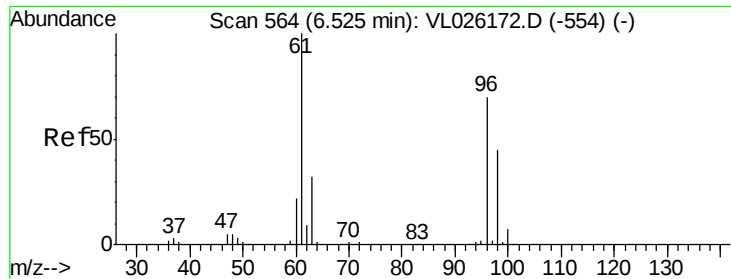
Tot Ion: 83 Resp: 4673
Ion Ratio Lower Upper
83 100
85 60.5 51.5 77.3



#30
Cyclohexane
Concen: 0.23 ppbv
RT: 8.28 min Scan# 852
Delta R.T. -0.01 min
Lab File: VL026193.D
Acq: 10 Oct 2015 2:15

Tgt Ion: 84 Resp: 7895
Ion Ratio Lower Upper
84 100
56 0.0 99.8 149.8#
41 65.5 58.1 87.1





#31

cis-1,2-Dichloroethene

Concen: 0.09 ppbv

RT: 6.70 min Scan# 593

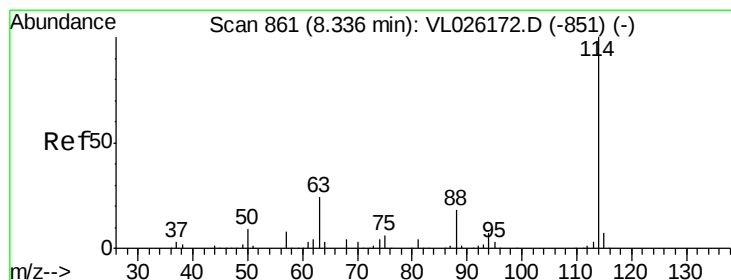
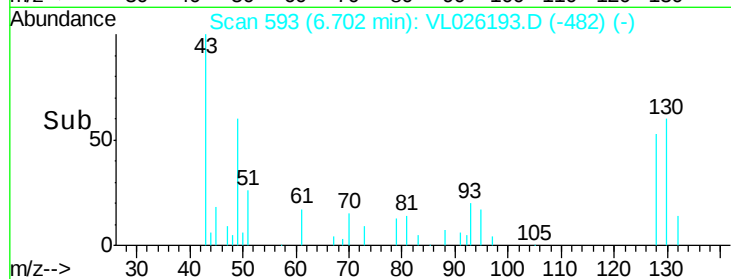
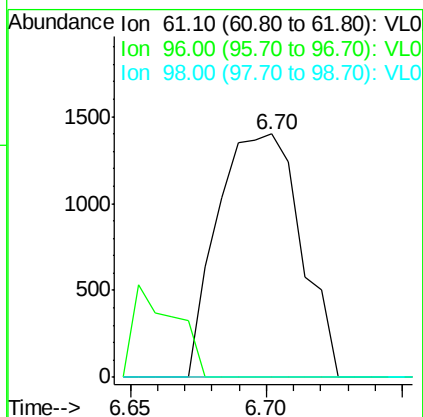
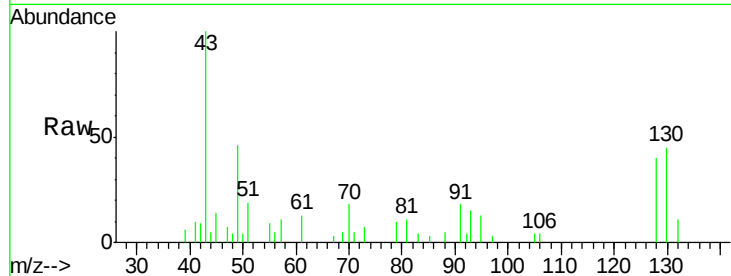
Delta R.T. 0.18 min

Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	61	Resp:	2964
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

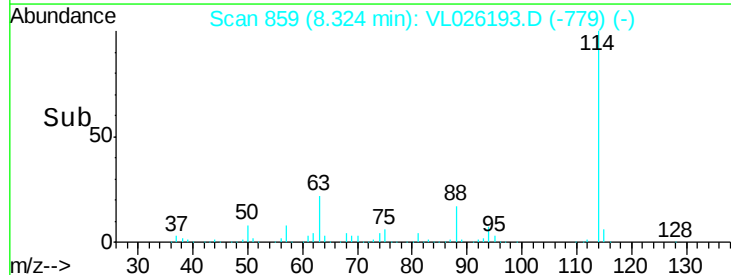
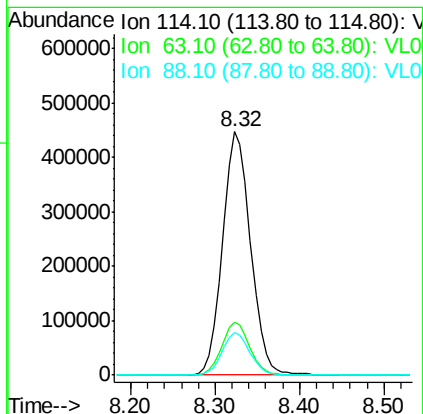
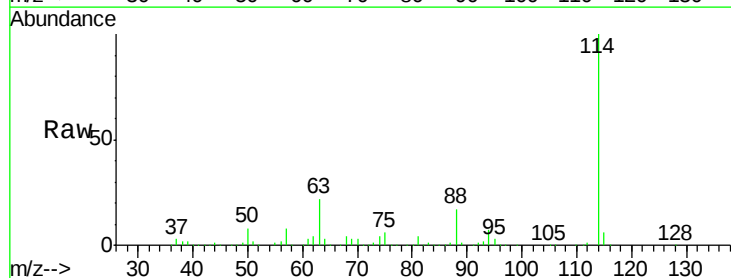
RT: 8.32 min Scan# 859

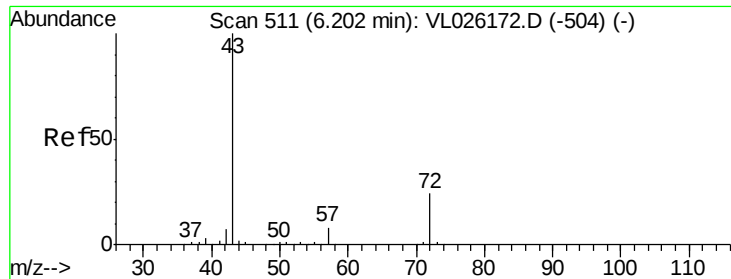
Delta R.T. -0.01 min

Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Tgt Ion:	114	Resp:	1019522
Ion	Ratio	Lower	Upper
114	100		
63	21.9	19.0	28.6
88	17.2	13.8	20.8

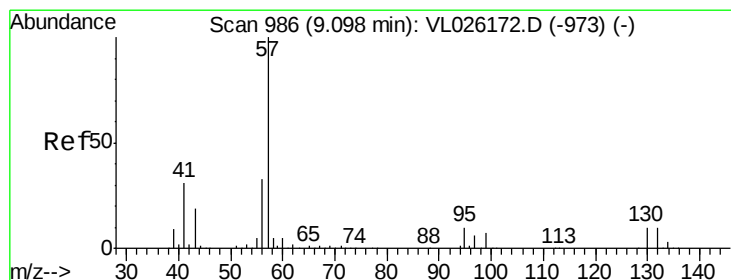
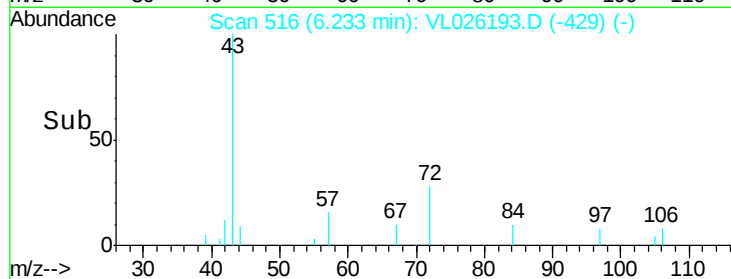
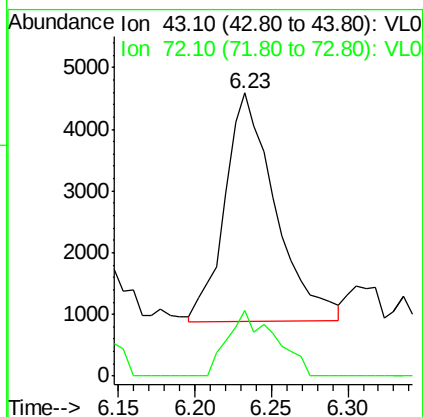
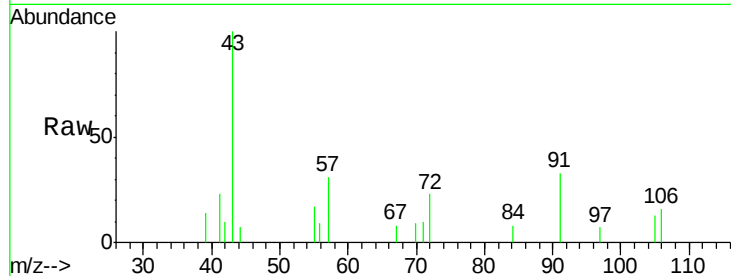




#34
 2-Butanone
 Concen: 0.15 ppbv
 RT: 6.23 min Scan# 516
 Delta R.T. 0.03 min
 Lab File: VL026193.D
 Acq: 10 Oct 2015 2:15

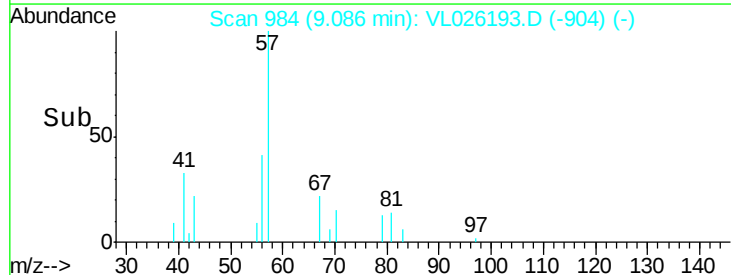
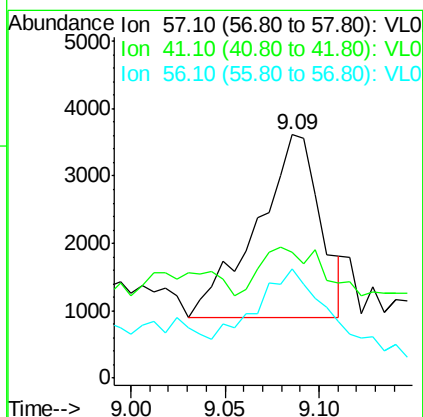
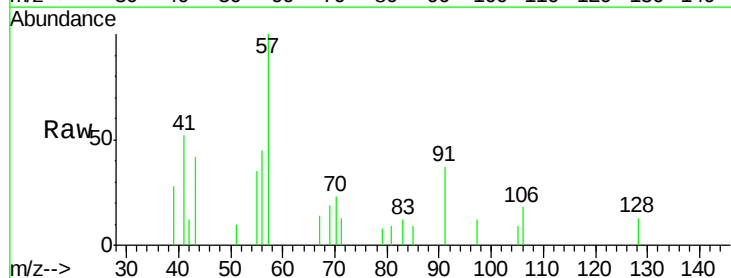
Instrument :
 MSVOA_L
 ClientSampleId :

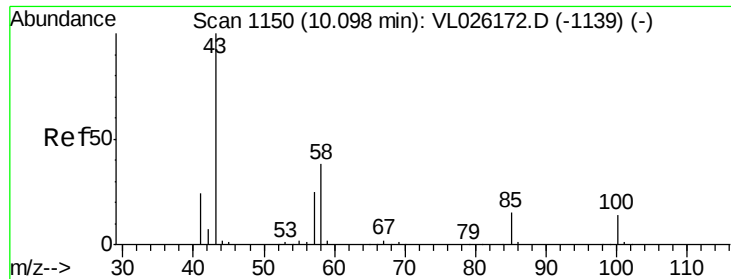
Tot Ion: 43 Resp: 8444
 Ion Ratio Lower Upper
 43 100
 72 27.1 19.6 29.4



#44
 2,2,4-Trimethylpentane
 Concen: 0.04 ppbv
 RT: 9.09 min Scan# 984
 Delta R.T. -0.01 min
 Lab File: VL026193.D
 Acq: 10 Oct 2015 2:15

Tgt Ion: 57 Resp: 6356
 Ion Ratio Lower Upper
 57 100
 41 66.7 23.7 35.5#
 56 49.0 26.4 39.6#

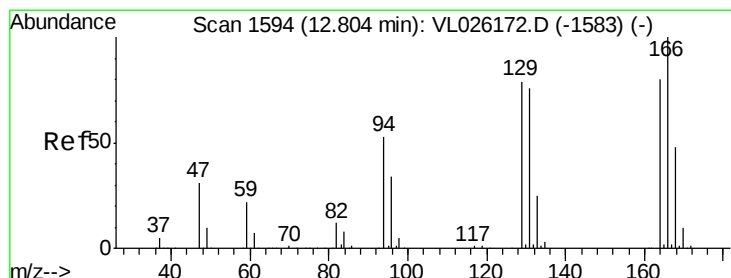
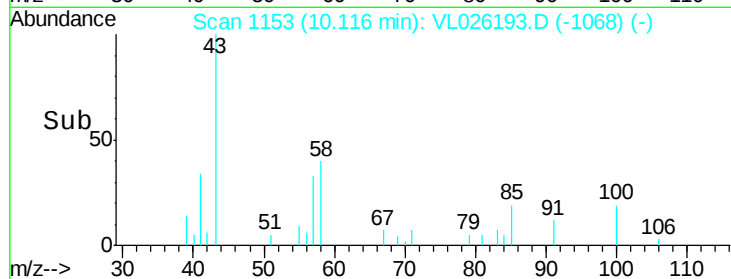
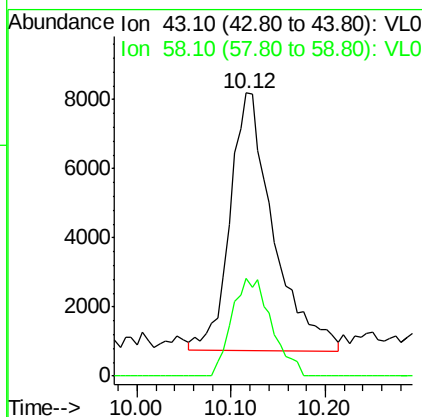
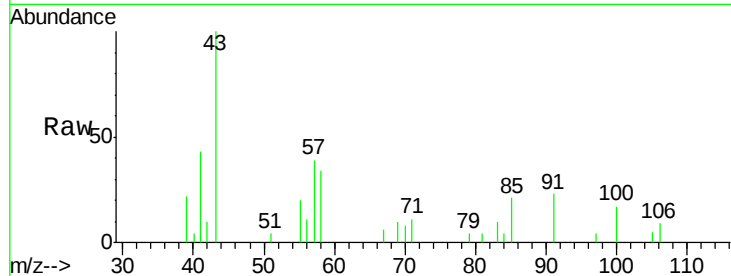




#50
4-Methyl-2-Pentanone
Concen: 0.32 ppbv
RT: 10.12 min Scan# 1153
Delta R.T. 0.02 min
Lab File: VL026193.D
Acq: 10 Oct 2015 2:15

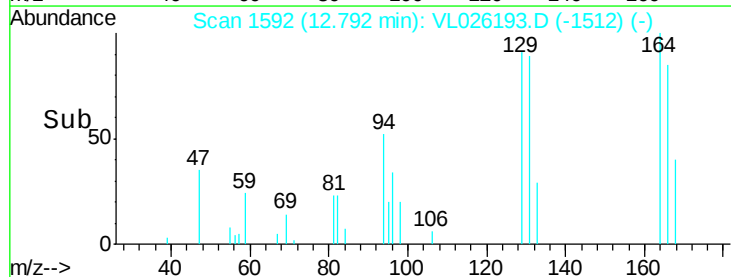
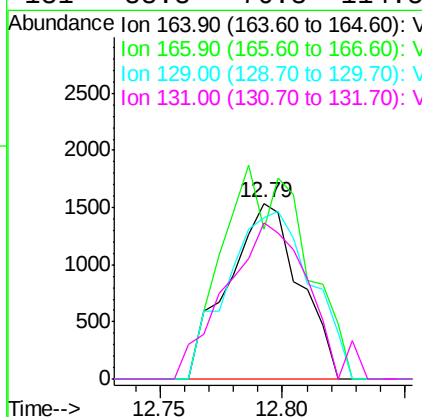
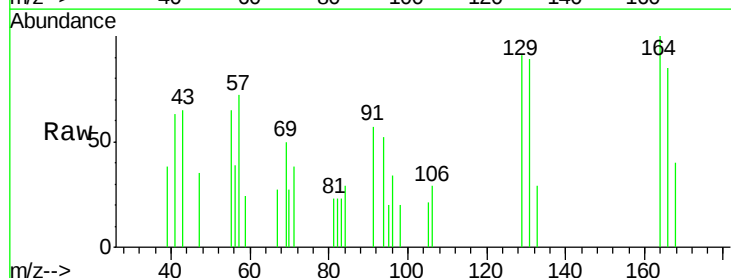
Instrument :
MSVOA_L
ClientSampleId :

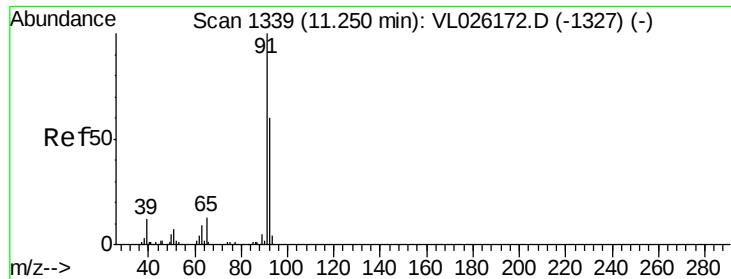
Tot Ion: 43 Resp: 23926
Ion Ratio Lower Upper
43 100
58 34.8 30.4 45.6



#52
Tetrachloroethene
Concen: 0.06 ppbv
RT: 12.79 min Scan# 1592
Delta R.T. -0.01 min
Lab File: VL026193.D
Acq: 10 Oct 2015 2:15

Tgt Ion: 164 Resp: 3121
Ion Ratio Lower Upper
164 100
166 85.0 99.9 149.9#
129 91.5 79.1 118.7
131 88.8 76.3 114.5





#53

Toluene

Concen: 0.85 ppbv

RT: 11.24 min Scan# 1337

Delta R.T. -0.01 min

Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Instrument :

MSVOA_L

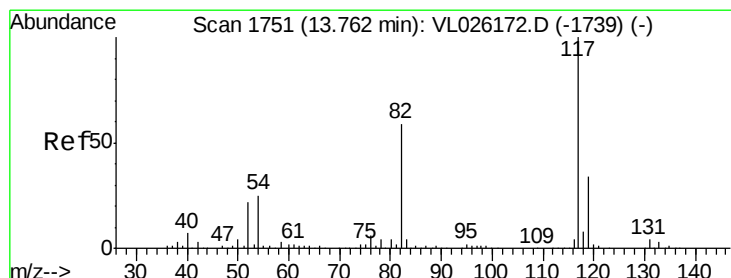
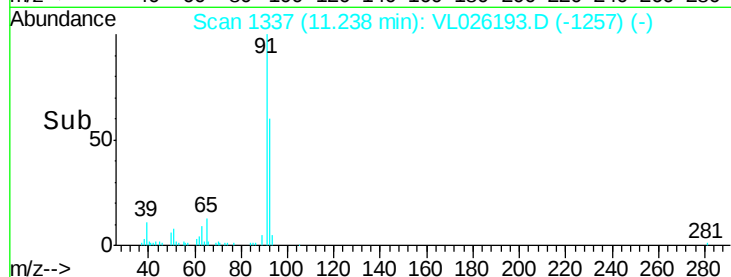
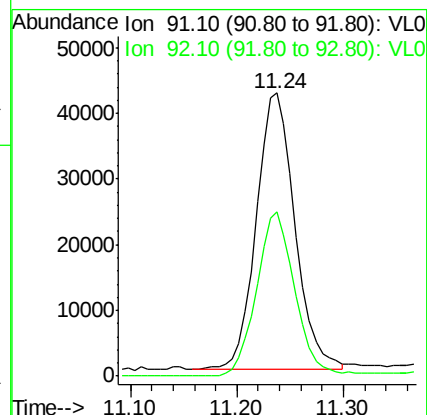
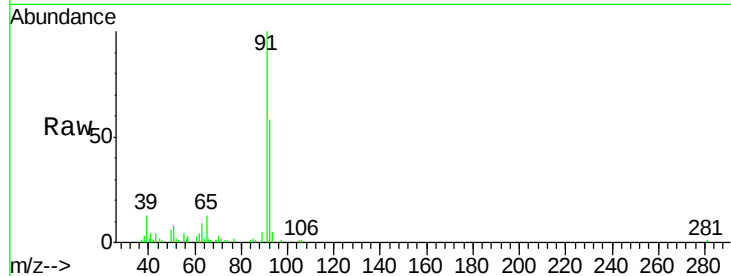
ClientSampleId :

Tot Ion: 91 Resp: 106653

Ion Ratio Lower Upper

91 100

92 61.4 48.5 72.7



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.74 min Scan# 1748

Delta R.T. -0.02 min

Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

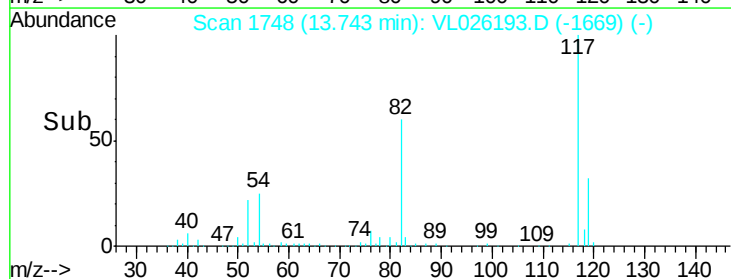
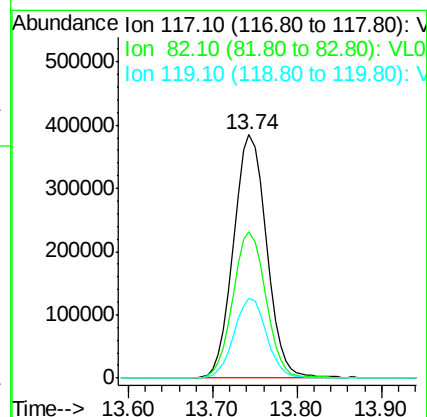
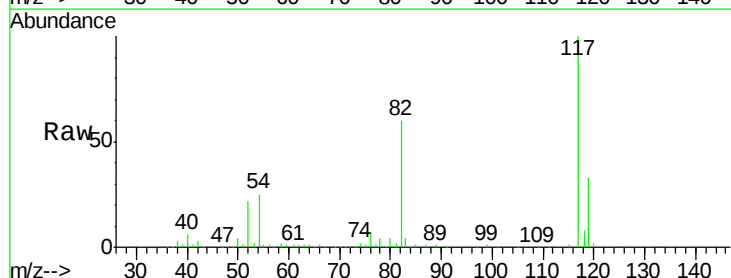
Tgt Ion: 117 Resp: 1024976

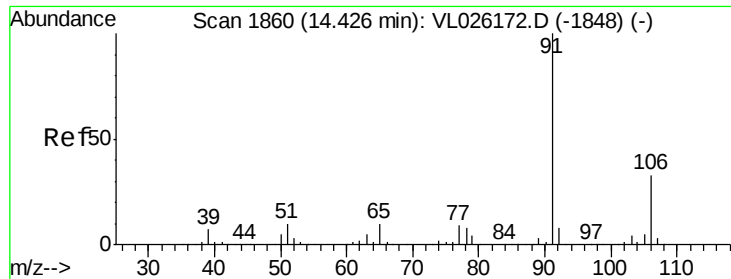
Ion Ratio Lower Upper

117 100

82 60.8 47.7 71.5

119 32.6 43.7 65.5#





#58

Ethyl Benzene

Concen: 0.26 ppbv

RT: 14.41 min Scan# 1857

Delta R.T. -0.02 min

Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Instrument :

MSVOA_L

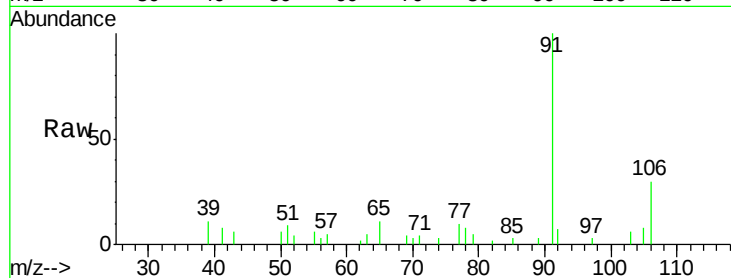
ClientSampleId :

Tot Ion: 91 Resp: 38409

Ion Ratio Lower Upper

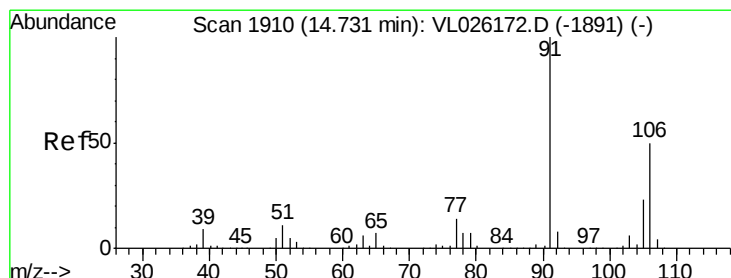
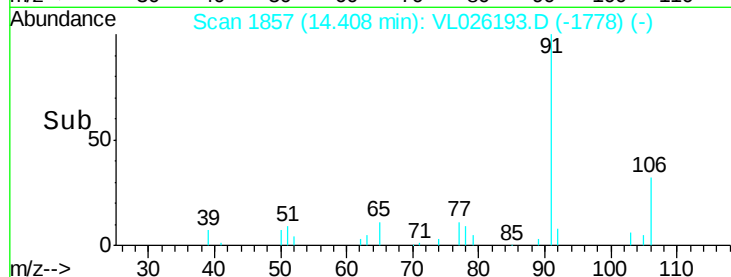
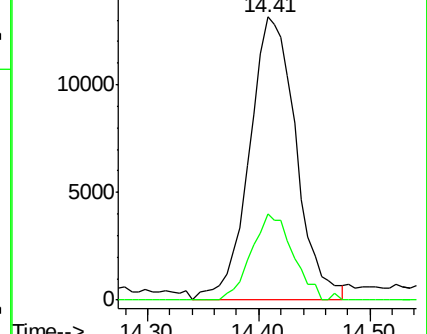
91 100

106 30.3 26.1 39.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 1.08 ppbv

RT: 14.69 min Scan# 1903

Delta R.T. -0.04 min

Lab File: VL026193.D

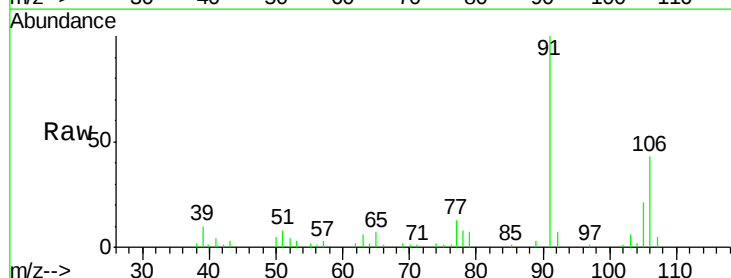
Acq: 10 Oct 2015 2:15

Tgt Ion: 91 Resp: 128941

Ion Ratio Lower Upper

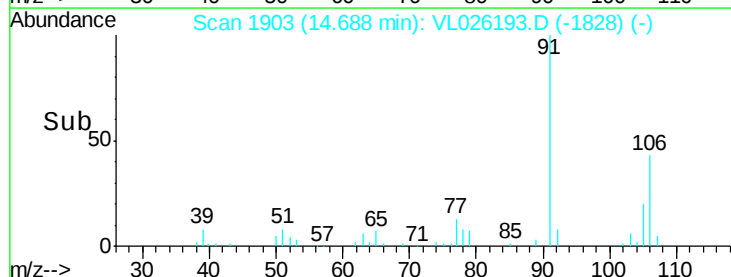
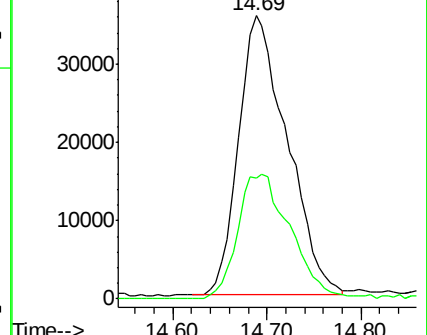
91 100

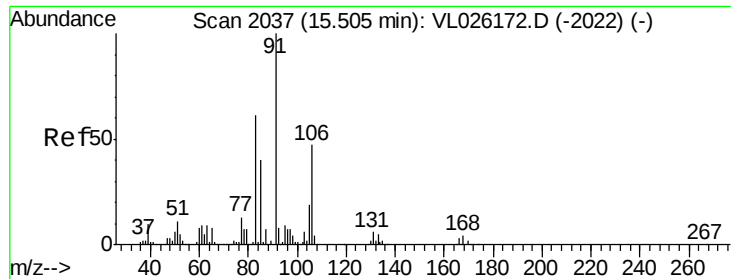
106 48.4 40.2 60.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

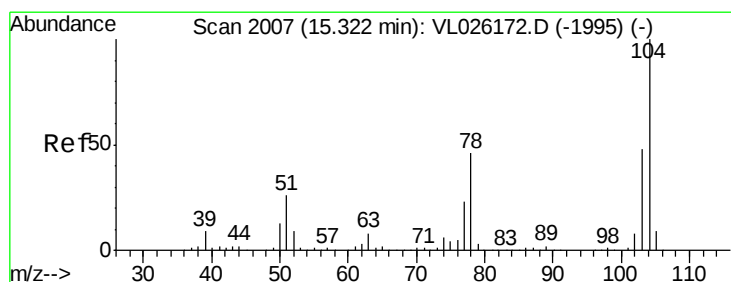
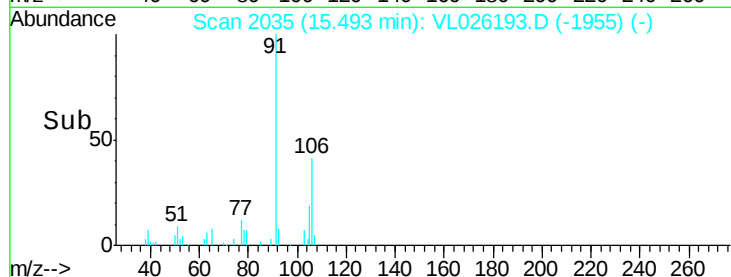
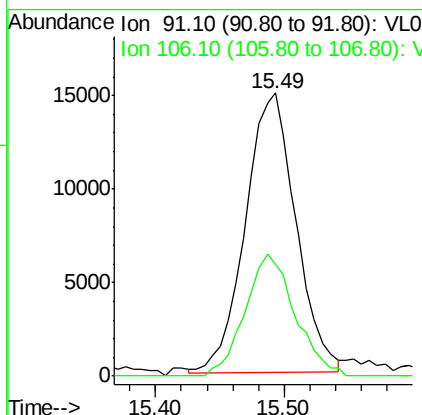
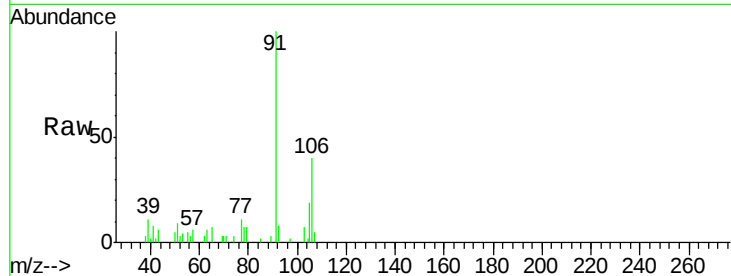




#60
o-Xylene
Concen: 0.32 ppbv
RT: 15.49 min Scan# 2035
Delta R.T. -0.01 min
Lab File: VL026193.D
Acq: 10 Oct 2015 2:15

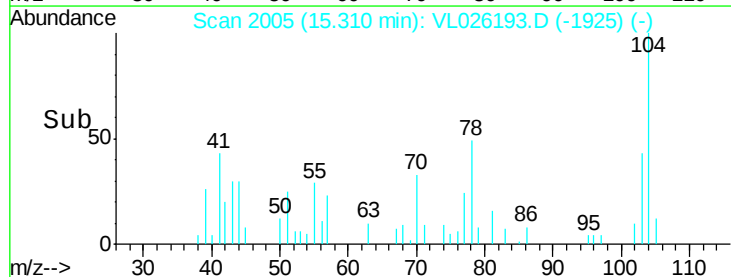
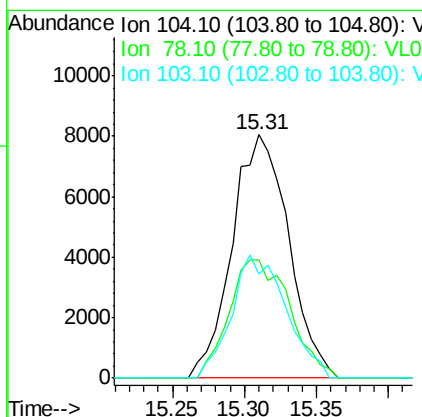
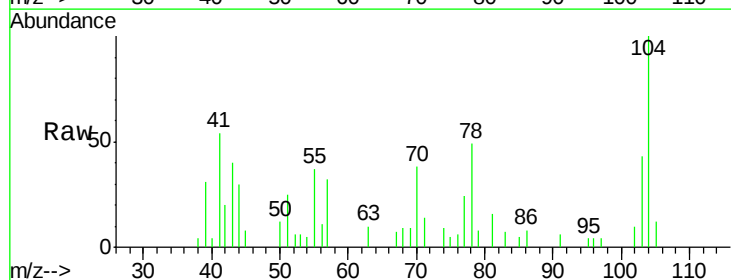
Instrument :
MSVOA_L
ClientSampleId :

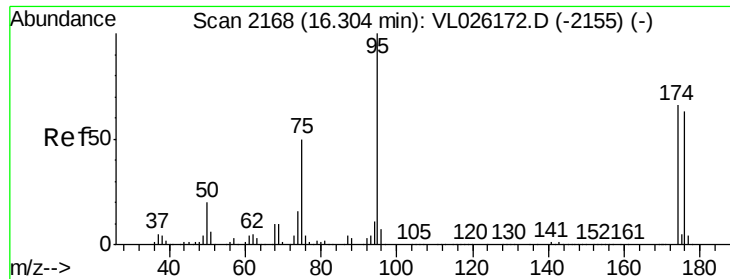
Tot Ion: 91 Resp: 40504
Ion Ratio Lower Upper
91 100
106 43.3 23.4 70.3



#61
Styrene
Concen: 0.43 ppbv
RT: 15.31 min Scan# 2005
Delta R.T. -0.01 min
Lab File: VL026193.D
Acq: 10 Oct 2015 2:15

Tgt Ion:104 Resp: 21933
Ion Ratio Lower Upper
104 100
78 52.5 36.1 54.1
103 48.6 37.5 56.3

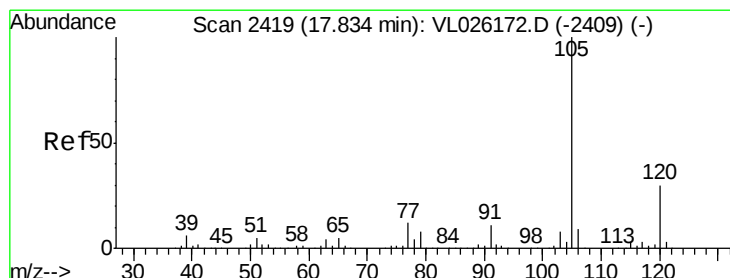
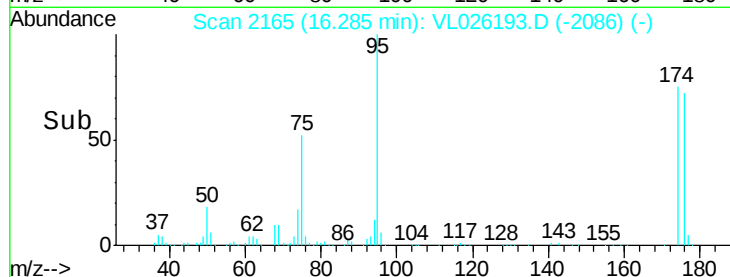
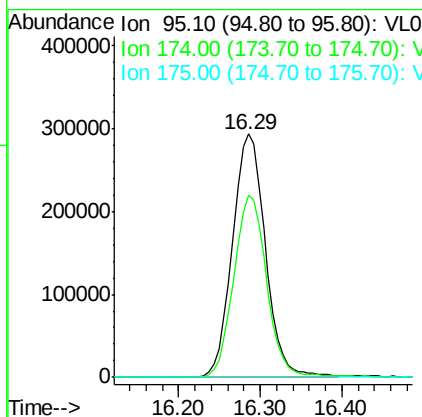
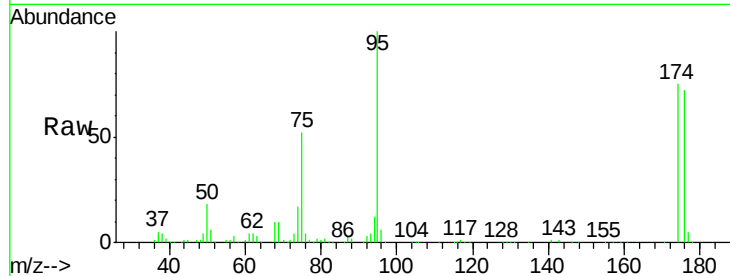




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.42 ppbv
 RT: 16.29 min Scan# 2165
 Delta R.T. -0.02 min
 Lab File: VL026193.D
 Acq: 10 Oct 2015 2:15

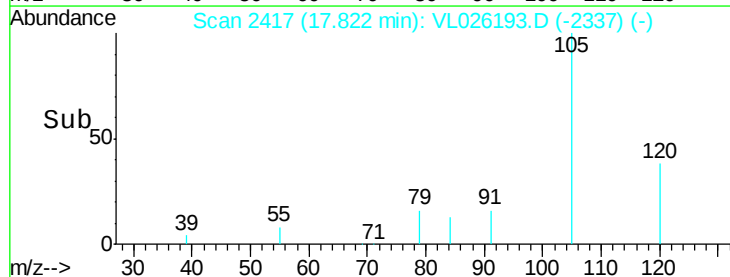
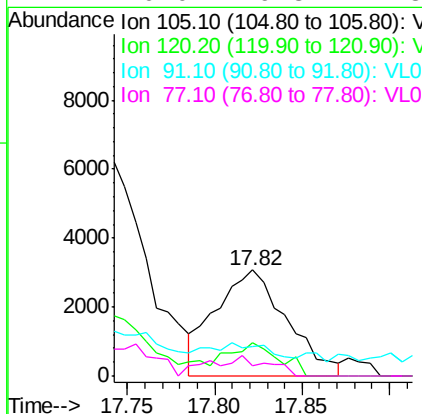
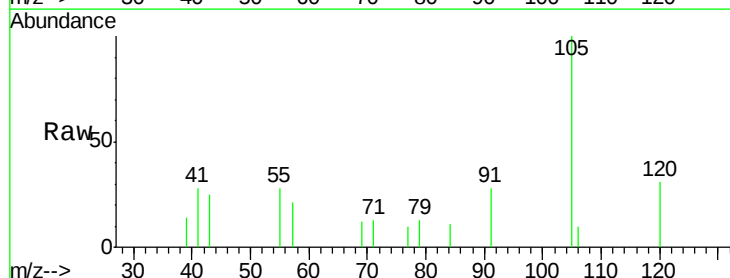
Instrument :
 MSVOA_L
 ClientSampleId :

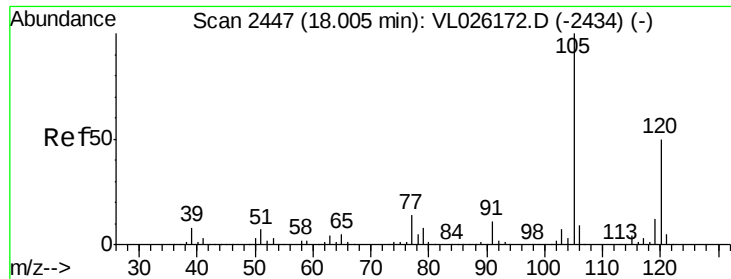
Tot Ion: 95 Resp: 819544
 Ion Ratio Lower Upper
 95 100
 174 75.5 52.2 78.4
 175 0.0 3.9 5.9#



#72
 4-Ethyltoluene
 Concen: 0.07 ppbv
 RT: 17.82 min Scan# 2417
 Delta R.T. -0.01 min
 Lab File: VL026193.D
 Acq: 10 Oct 2015 2:15

Tgt Ion: 105 Resp: 8706
 Ion Ratio Lower Upper
 105 100
 120 25.3 24.7 37.1
 91 0.0 9.2 13.8#
 77 0.0 9.8 14.8#

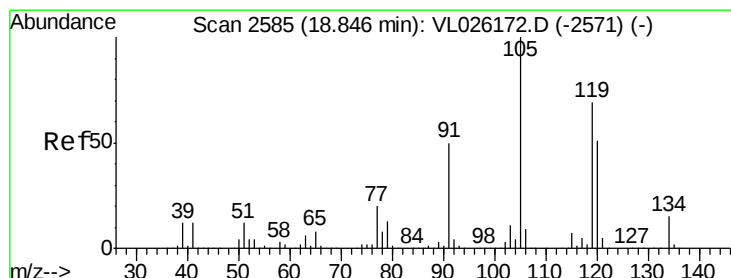
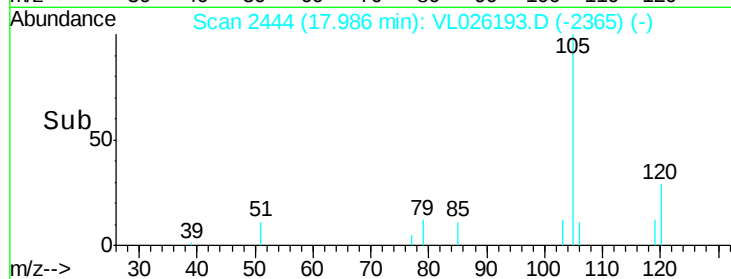
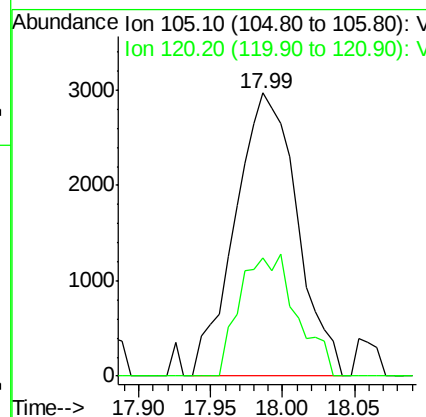
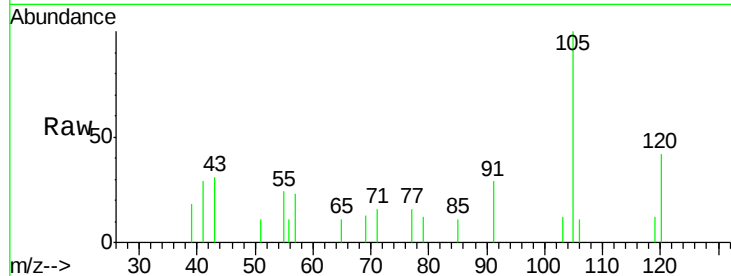




#73
 1,3,5-Trimethylbenzene
 Concen: 0.07 ppbv
 RT: 17.99 min Scan# 2444
 Delta R.T. -0.02 min
 Lab File: VL026193.D
 Acq: 10 Oct 2015 2:15

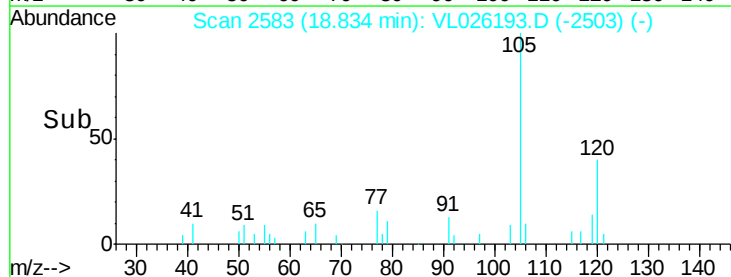
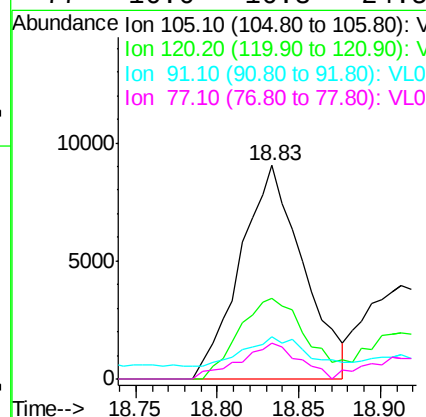
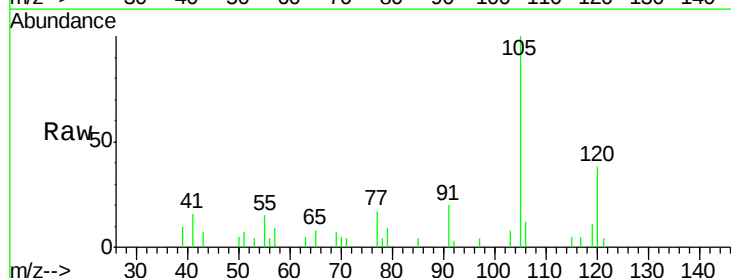
Instrument :
 MSVOA_L
 ClientSampleId :

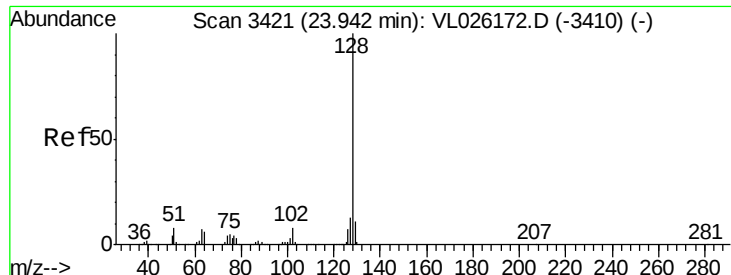
Tot Ion:105 Resp: 8896
 Ion Ratio Lower Upper
 105 100
 120 41.6 40.1 60.1



#74
 1,2,4-Trimethylbenzene
 Concen: 0.18 ppbv
 RT: 18.83 min Scan# 2583
 Delta R.T. -0.01 min
 Lab File: VL026193.D
 Acq: 10 Oct 2015 2:15

Tgt Ion:105 Resp: 24225
 Ion Ratio Lower Upper
 105 100
 120 37.8 41.1 61.7#
 91 13.3 39.8 59.6#
 77 16.6 16.3 24.5





#79

Naphthalene

Concen: 0.06 ppbv

RT: 23.95 min Scan# 3422

Delta R.T. 0.01 min

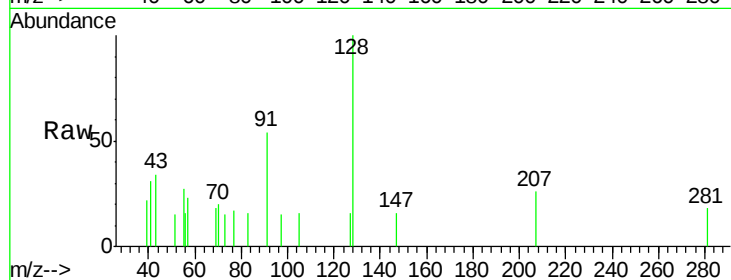
Lab File: VL026193.D

Acq: 10 Oct 2015 2:15

Instrument :

MSVOA_L

ClientSampleId :



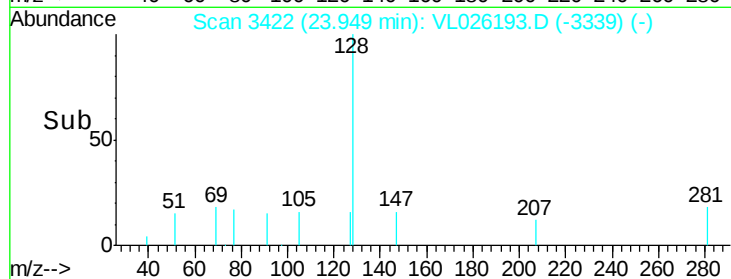
Tot Ion:128 Resp: 5159

Ion Ratio Lower Upper

128 100

127 16.3 10.2 15.2#

129 0.0 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

