

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026230.D
 Acq On : 21 Oct 2015 6:53
 Operator : SY/MD
 Sample : G4112-02 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 RB-SUBSLAB-239

Quant Time: Oct 21 06:46:00 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 21 01:20:55 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.62	49	512991	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	8.29	114	1492138	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.71	117	1829026	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.25	95	1429114	10.13	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.62	85	251418	2.36	ppbv	96
3) Chlorodifluoromethane	3.55	51	580451	8.94	ppbv	100
4) Chloromethane	3.74	50	2690	0.08	ppbv	92
8) Dichlorotetrafluoroethane	3.62	85	251418	2.75	ppbv #	13
9) Propene	3.59	41	6974	0.23	ppbv #	77
10) Heptane	9.32	43	13259	0.13	ppbv	95
11) Trichlorofluoromethane	4.67	101	14688	0.14	ppbv	95
13) Ethanol	4.31	45	226701	49.71	ppbv	96
15) Acetone	4.59	43	247560	3.28	ppbv	92
16) 1,3-Butadiene	3.93	39	19962	0.59	ppbv #	11
17) tert-Butyl alcohol	5.14	59	77122	1.49	ppbv	98
19) Isopropyl Alcohol	4.75	45	26079	0.88	ppbv #	1
20) Methylene Chloride	5.13	84	3667	0.12	ppbv #	85
21) Allyl Chloride	5.19	41	2285	0.05	ppbv #	17
23) Vinyl Acetate	5.93	43	27651	0.20	ppbv #	1
25) Ethyl Acetate	6.63	43	62665	0.44	ppbv #	85
26) Hexane	6.63	57	69517	0.98	ppbv #	56
27) Carbon Disulfide	5.37	76	17099	0.19	ppbv #	81
29) Chloroform	6.71	83	13673	0.13	ppbv	94
30) Cyclohexane	8.25	84	20194	0.29	ppbv #	1
31) cis-1,2-Dichloroethene	6.65	61	1929	0.03	ppbv #	21
32) 1,1,1-Trichloroethane	7.57	97	3577	0.03	ppbv	93
34) 2-Butanone	6.19	43	25798	0.31	ppbv	99
36) Benzene	7.99	78	14739	0.10	ppbv #	94
38) Trichloroethene	9.03	130	52959	0.72	ppbv	95
41) Tetrahydrofuran	7.11	42	57230	1.17	ppbv	99
42) Bromodichloromethane	8.98	83	3278	0.03	ppbv #	25
43) Methyl Methacrylate	9.24	69	6617	0.12	ppbv	91
44) 2,2,4-Trimethylpentane	9.05	57	17401	0.07	ppbv #	9
50) 4-Methyl-2-Pentanone	10.10	43	10629	0.09	ppbv #	65
51) 2-Hexanone	11.63	43	4783	0.04	ppbv #	53
52) Tetrachloroethene	12.78	164	6807068	78.10	ppbv	96
53) Toluene	11.20	91	385582	1.87	ppbv	99
57) Chlorobenzene	13.80	112	6318	0.04	ppbv #	28
58) Ethyl Benzene	14.38	91	37599	0.13	ppbv	100
59) m/p-Xylene	14.66	91	95165	0.41	ppbv	99
60) o-Xylene	15.46	91	39935	0.16	ppbv	99
61) Styrene	15.28	104	36048	0.33	ppbv	98
69) p-Isopropyltoluene	19.75	119	7632	0.02	ppbv #	83
72) 4-Ethyltoluene	17.79	105	9633	0.03	ppbv	95
73) 1,3,5-Trimethylbenzene	17.95	105	9580	0.04	ppbv	91

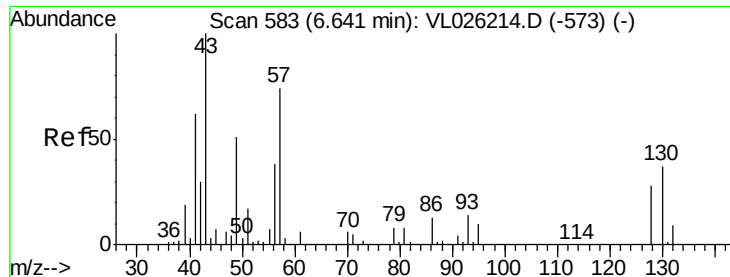
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
Data File : VL026230.D
Acq On : 21 Oct 2015 6:53
Operator : SY/MD
Sample : G4112-02 10X
Misc : 400mL/MSVOA L
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Instrument :
MSVOA_L
ClientSampleId :
RB-SUBSLAB-239

Quant Time: Oct 21 06:46:00 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 21 01:20:55 2015
QLast Update : Wed Oct 21 01:20:55 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	18.79	105	32647	0.12	ppbv #	74
79) Naphthalene	23.91	128	4919	0.02	ppbv #	93

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.62 min Scan# 580

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

RB-SUBSLAB-239

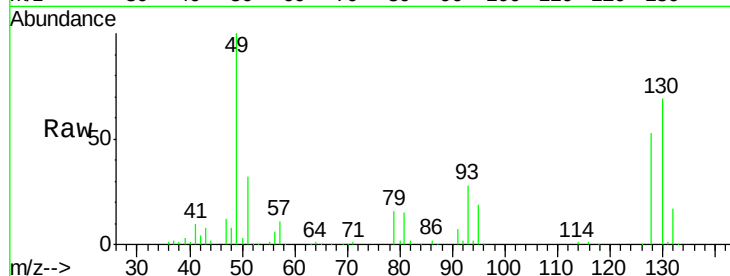
Tot Ion: 49 Resp: 512991

Ion Ratio Lower Upper

49 100

128 56.7 28.2 84.7

130 72.8 36.0 108.1



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

6.62

250000

200000

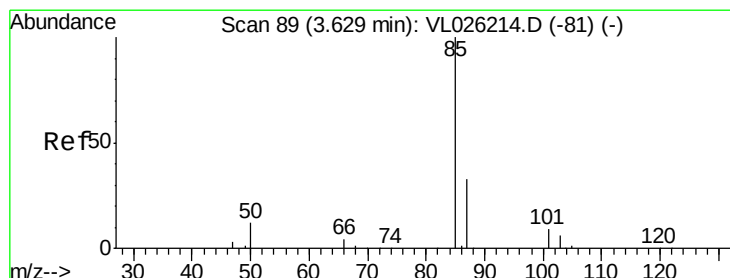
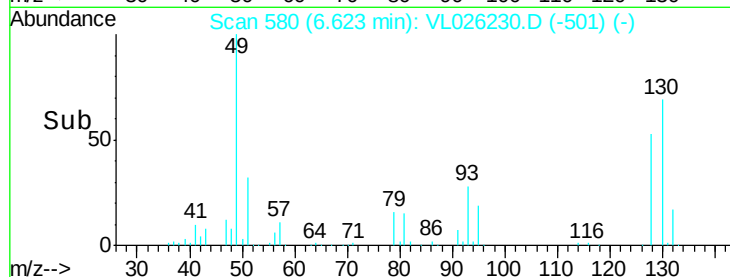
150000

100000

50000

0

Time--> 6.50 6.60 6.70



#2

Dichlorodifluoromethane

Concen: 2.36 ppbv

RT: 3.62 min Scan# 88

Delta R.T. -0.01 min

Lab File: VL026230.D

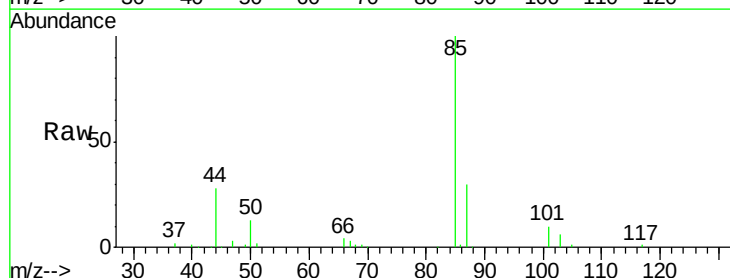
Acq: 21 Oct 2015 6:53

Tgt Ion: 85 Resp: 251418

Ion Ratio Lower Upper

85 100

87 30.1 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.62

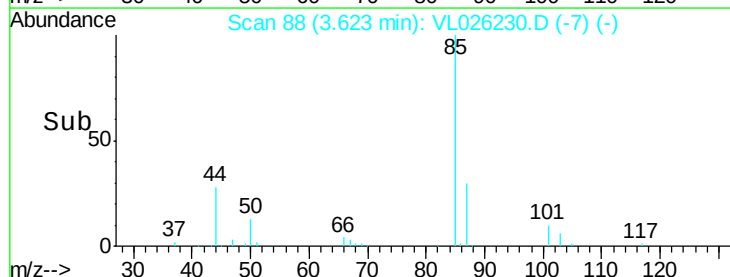
150000

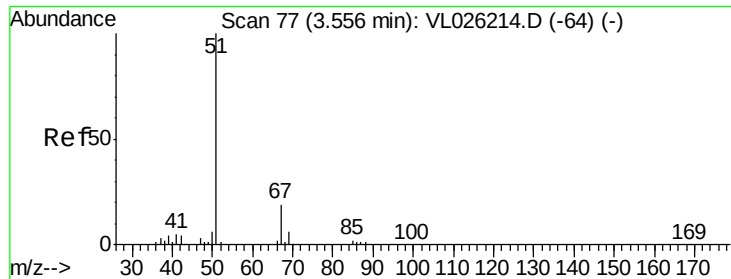
100000

50000

0

Time--> 3.55 3.60 3.65 3.70





#3

Chlorodifluoromethane

Concen: 8.94 ppbv

RT: 3.55 min Scan# 76

Delta R.T. -0.01 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

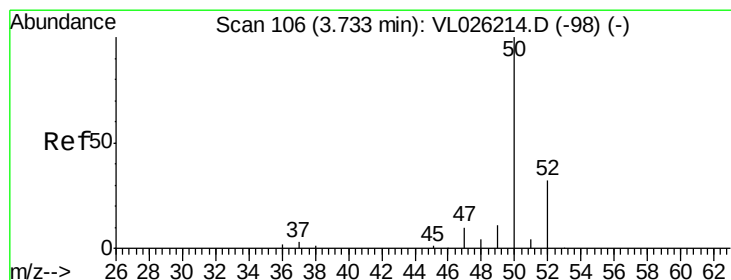
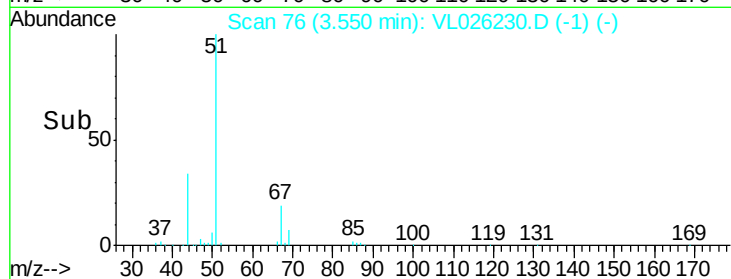
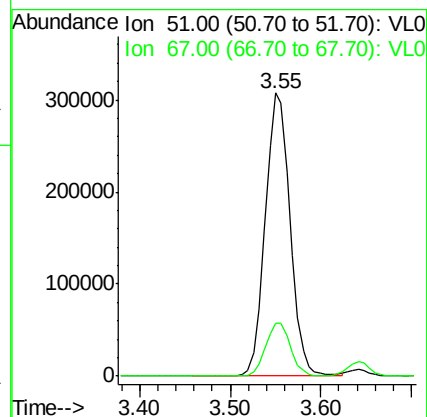
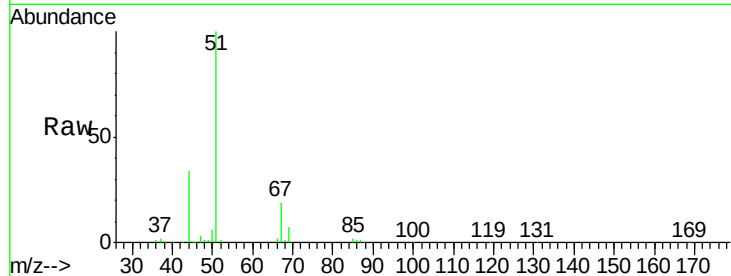
RB-SUBSLAB-239

Tot Ion: 51 Resp: 580451

Ion Ratio Lower Upper

51 100

67 18.9 15.3 22.9



#4

Chloromethane

Concen: 0.08 ppbv

RT: 3.74 min Scan# 107

Delta R.T. 0.01 min

Lab File: VL026230.D

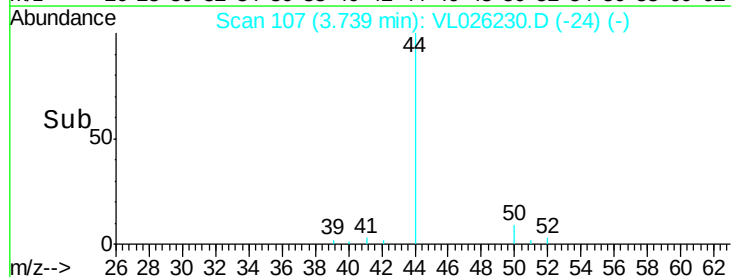
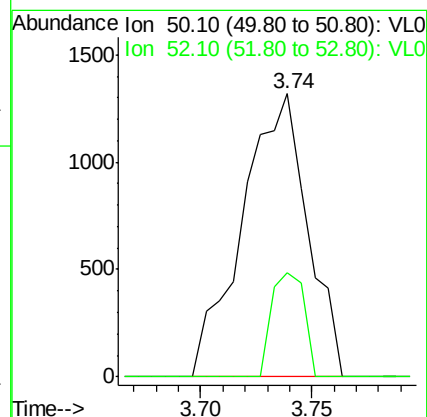
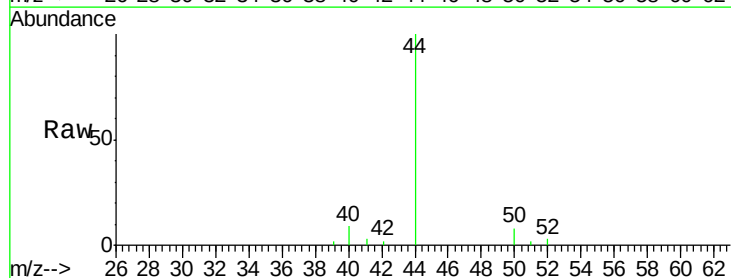
Acq: 21 Oct 2015 6:53

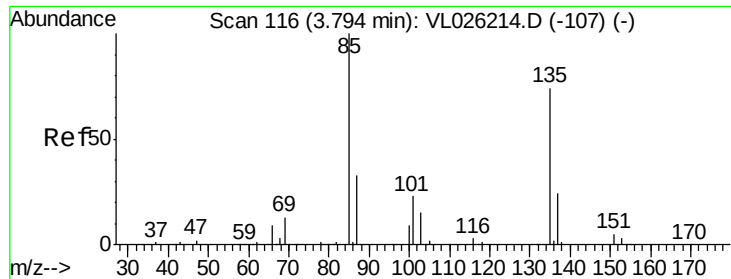
Tgt Ion: 50 Resp: 2690

Ion Ratio Lower Upper

50 100

52 36.9 25.8 38.6





#8

Dichlorotetrafluoroethane

Concen: 2.75 ppbv

RT: 3.62 min Scan# 88

Delta R.T. -0.17 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

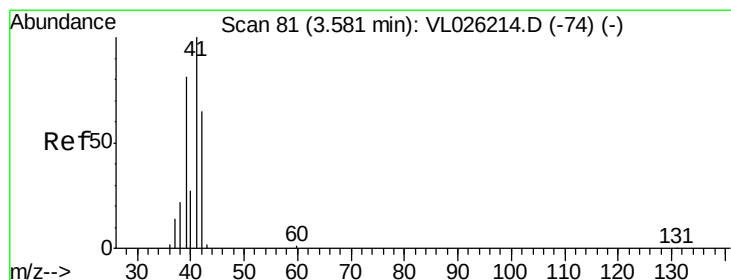
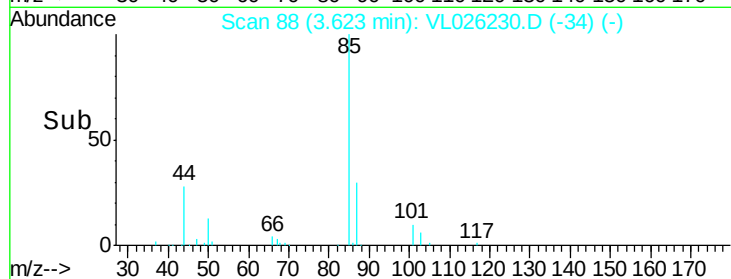
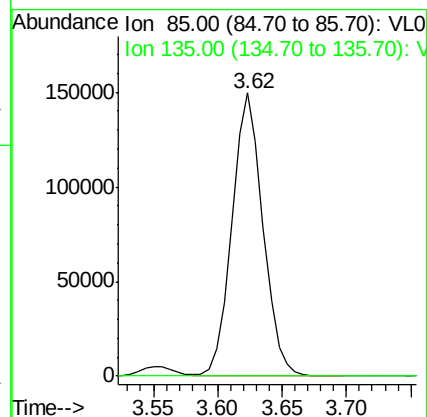
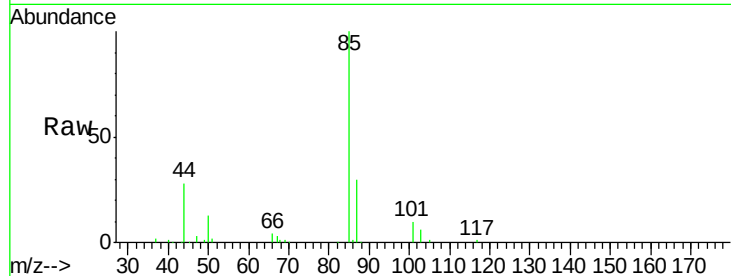
RB-SUBSLAB-239

Tot Ion: 85 Resp: 251418

Ion Ratio Lower Upper

85 100

135 0.0 57.8 86.8#



#9

Propene

Concen: 0.23 ppbv

RT: 3.59 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL026230.D

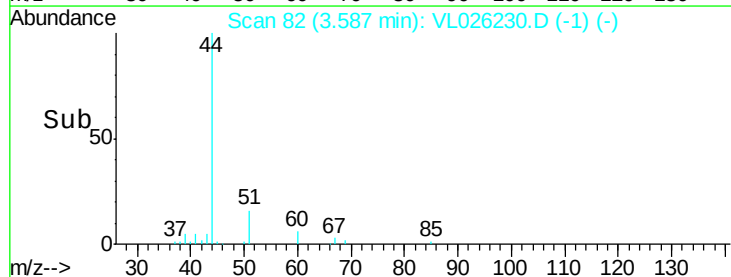
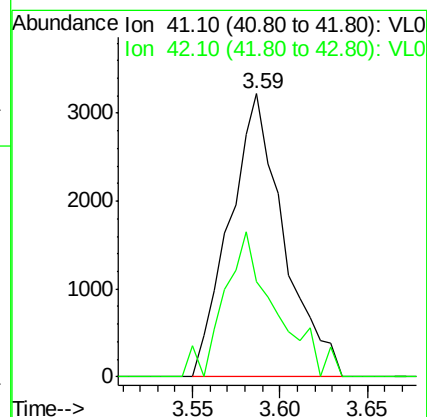
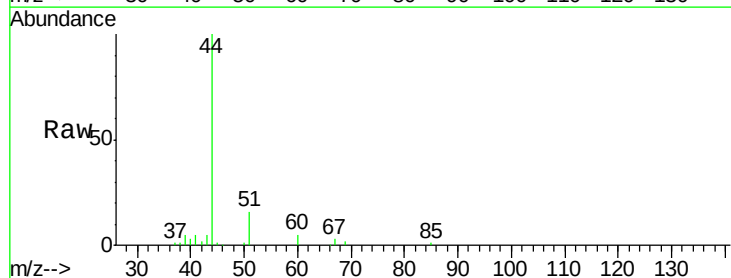
Acq: 21 Oct 2015 6:53

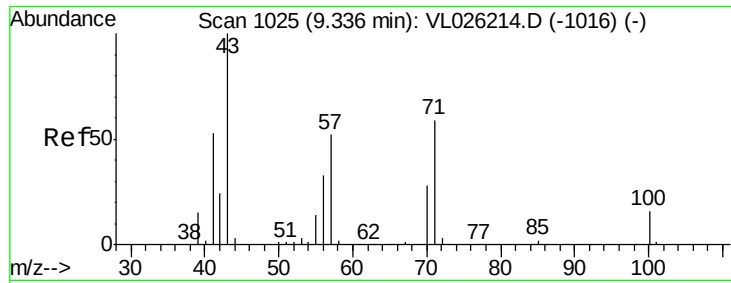
Tgt Ion: 41 Resp: 6974

Ion Ratio Lower Upper

41 100

42 48.8 53.8 80.8#





#10

Heptane

Concen: 0.13 ppbv

RT: 9.32 min Scan# 1022

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

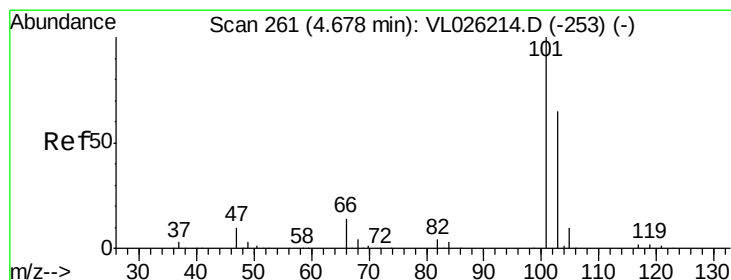
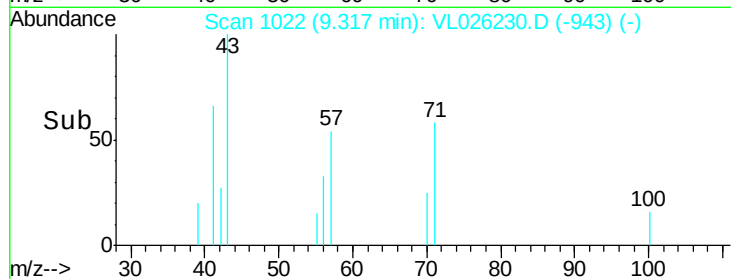
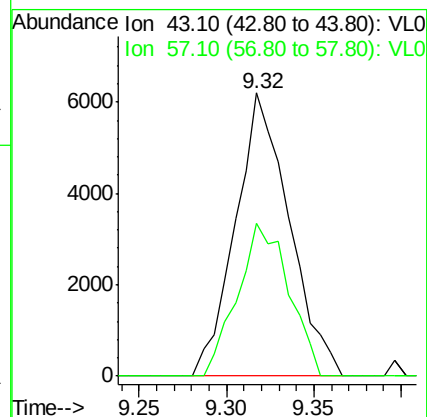
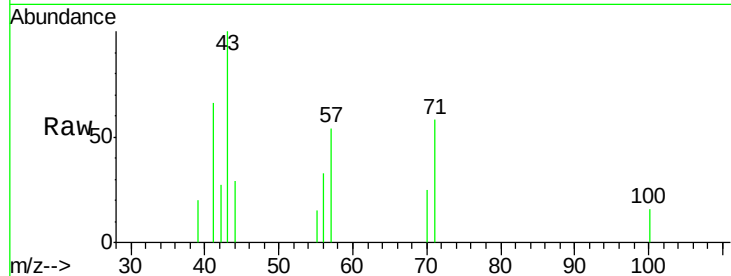
RB-SUBSLAB-239

Tot Ion: 43 Resp: 13259

Ion Ratio Lower Upper

43 100

57 51.3 43.7 65.5



#11

Trichlorofluoromethane

Concen: 0.14 ppbv

RT: 4.67 min Scan# 260

Delta R.T. -0.01 min

Lab File: VL026230.D

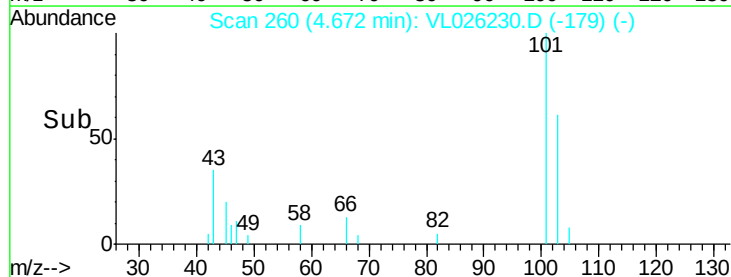
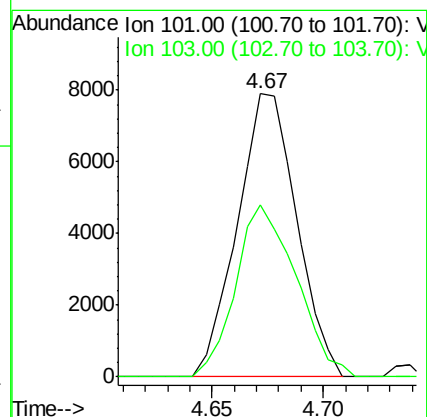
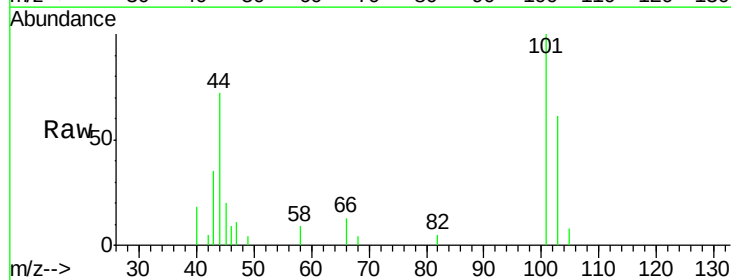
Acq: 21 Oct 2015 6:53

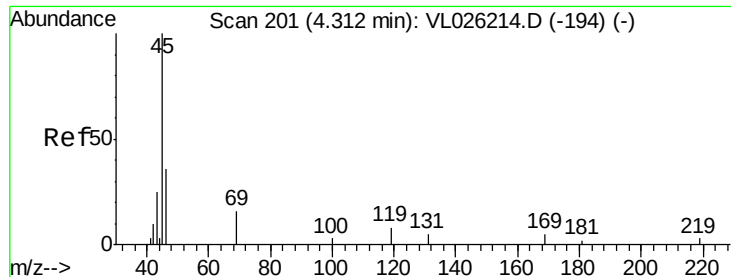
Tgt Ion:101 Resp: 14688

Ion Ratio Lower Upper

101 100

103 61.0 52.2 78.2





#13

Ethanol

Concen: 49.71 ppbv

RT: 4.31 min Scan# 200

Delta R.T. -0.01 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

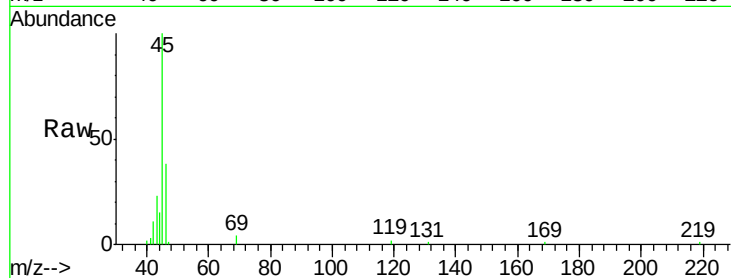
RB-SUBSLAB-239

Tot Ion: 45 Resp: 226701

Ion Ratio Lower Upper

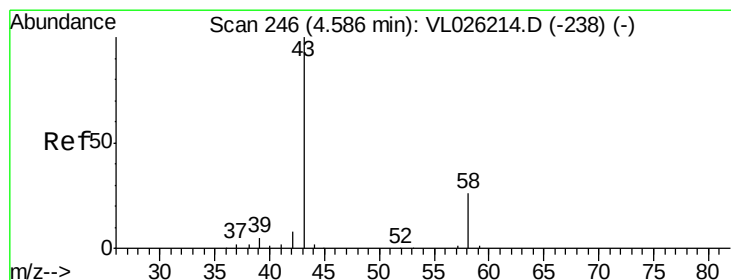
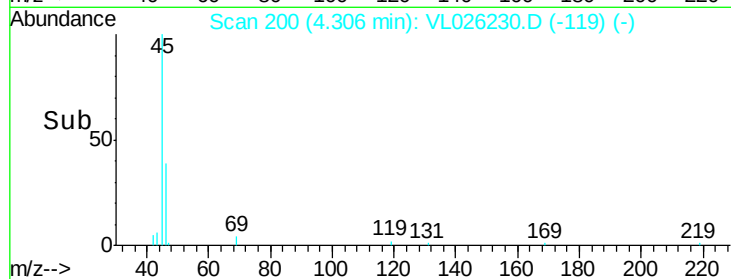
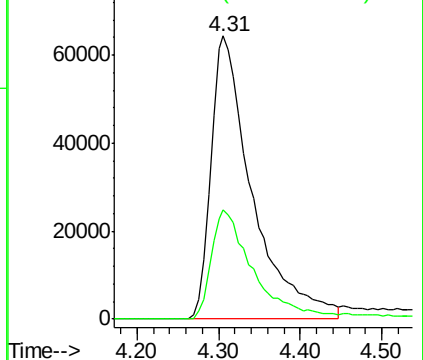
45 100

46 41.9 15.8 63.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 3.28 ppbv

RT: 4.59 min Scan# 246

Delta R.T. 0.00 min

Lab File: VL026230.D

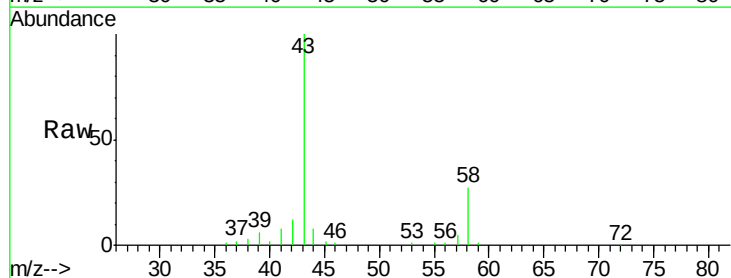
Acq: 21 Oct 2015 6:53

Tgt Ion: 43 Resp: 247560

Ion Ratio Lower Upper

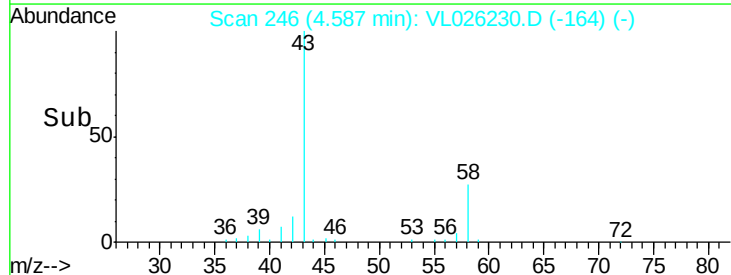
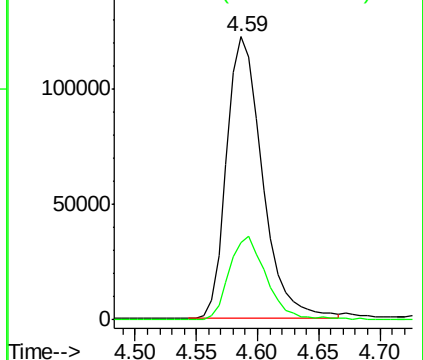
43 100

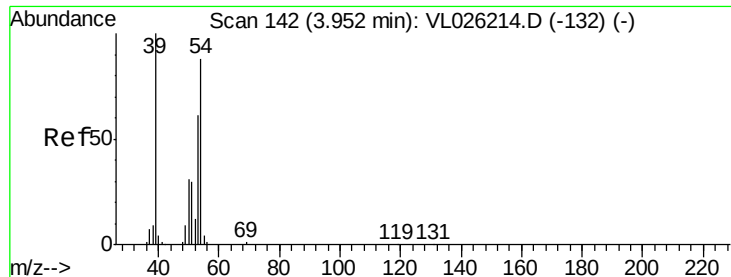
58 31.1 21.8 32.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#16

1,3-Butadiene

Concen: 0.59 ppbv

RT: 3.93 min Scan# 138

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

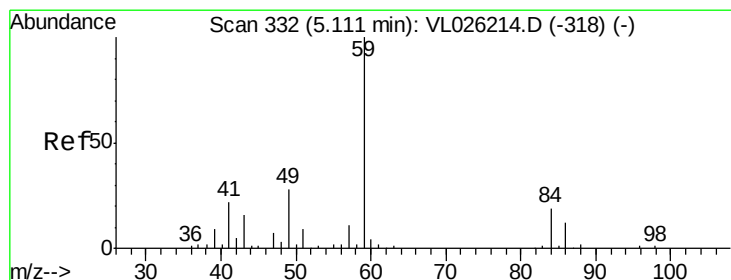
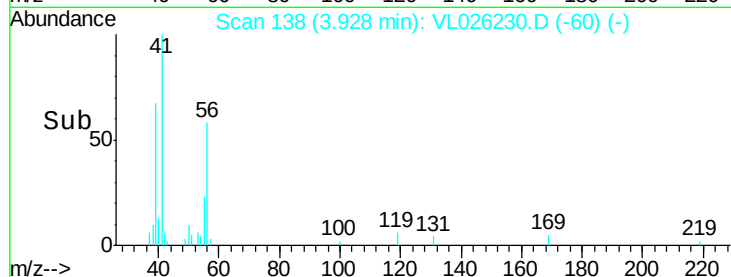
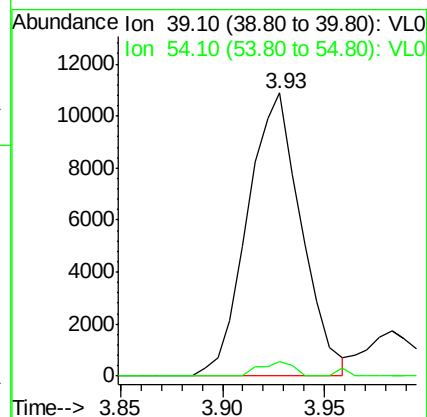
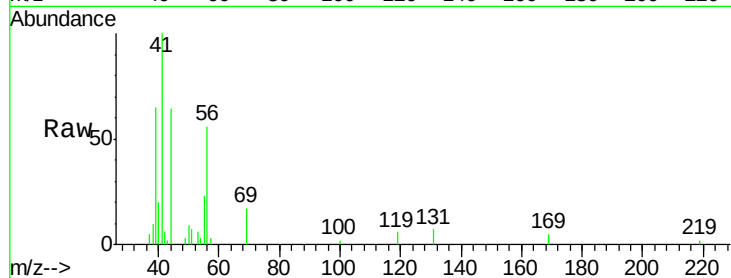
RB-SUBSLAB-239

Tot Ion: 39 Resp: 19962

Ion Ratio Lower Upper

39 100

54 3.7 67.3 100.9#



#17

tert-Butyl alcohol

Concen: 1.49 ppbv

RT: 5.14 min Scan# 336

Delta R.T. 0.02 min

Lab File: VL026230.D

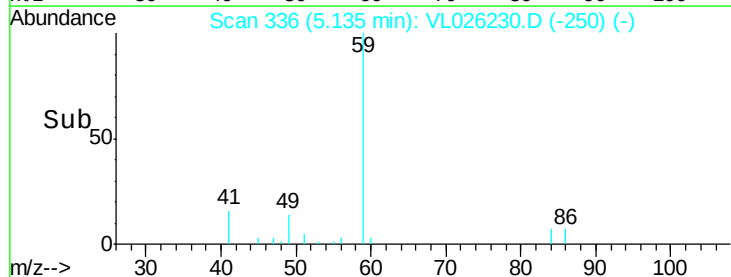
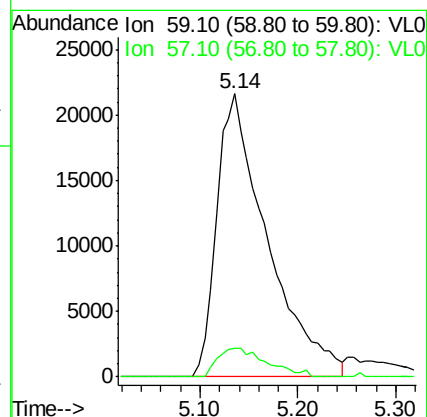
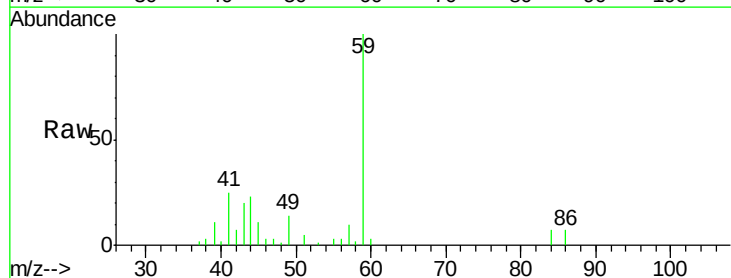
Acq: 21 Oct 2015 6:53

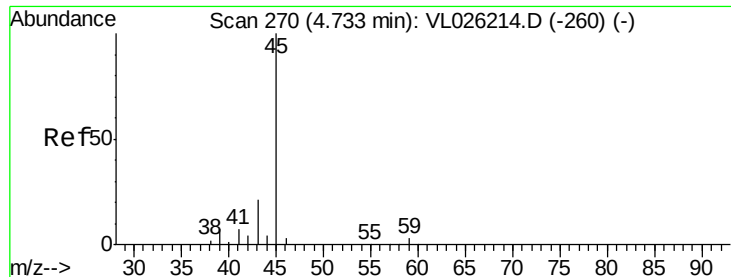
Tgt Ion: 59 Resp: 77122

Ion Ratio Lower Upper

59 100

57 10.0 8.5 12.7





#19

Isopropyl Alcohol

Concen: 0.88 ppbv

RT: 4.75 min Scan# 273

Delta R.T. 0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

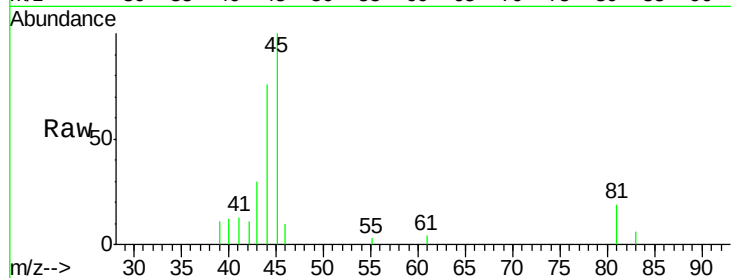
RB-SUBSLAB-239

Tot Ion: 45 Resp: 26079

Ion Ratio Lower Upper

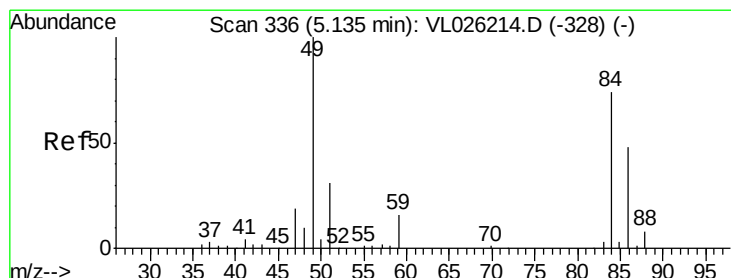
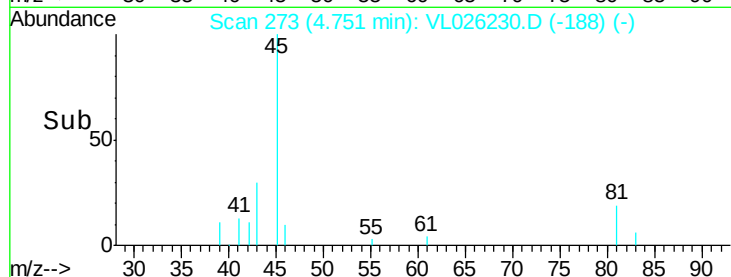
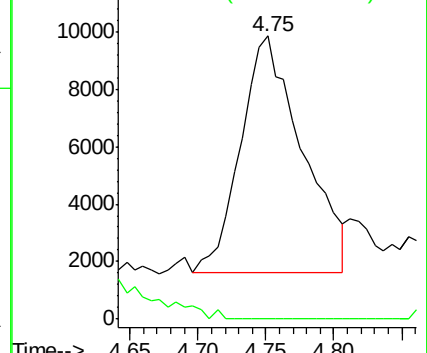
45 100

58 295.6 40.3 60.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.12 ppbv

RT: 5.13 min Scan# 335

Delta R.T. -0.01 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Tgt Ion: 84 Resp: 3667

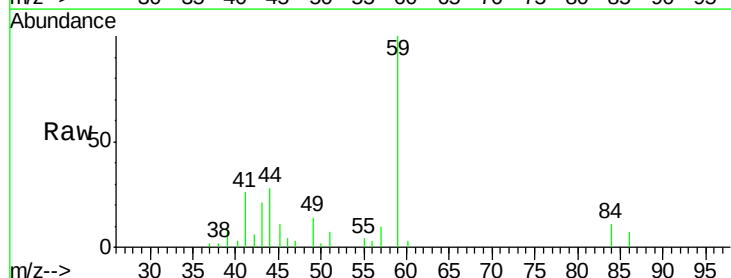
Ion Ratio Lower Upper

84 100

49 116.9 108.7 163.1

51 62.2 33.7 50.5#

86 63.0 52.2 78.2

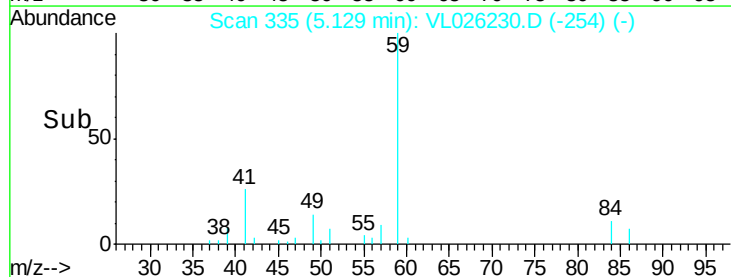
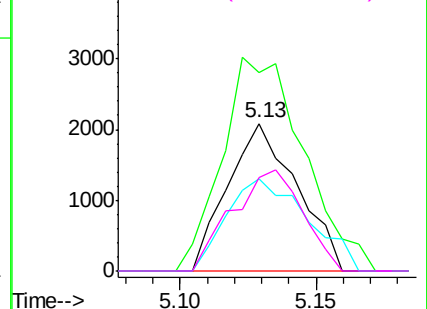


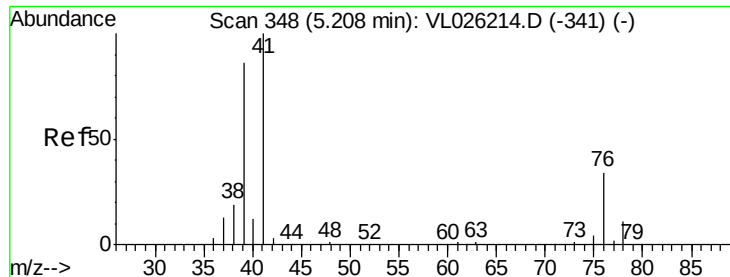
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.05 ppbv

RT: 5.19 min Scan# 345

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

RB-SUBSLAB-239

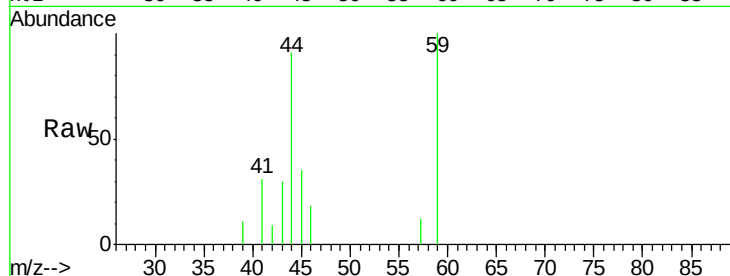
Tot Ion: 41 Resp: 2285

Ion Ratio Lower Upper

41 100

76 0.0 26.6 39.8#

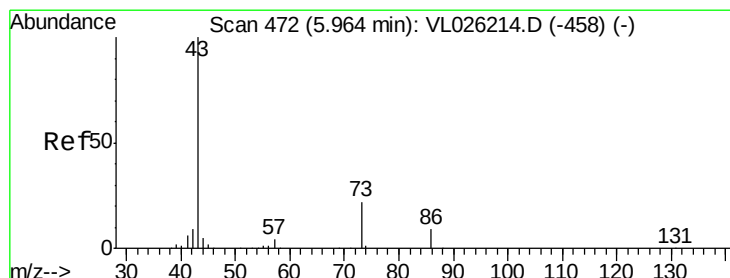
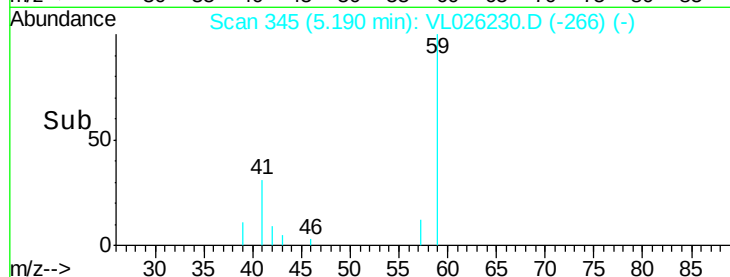
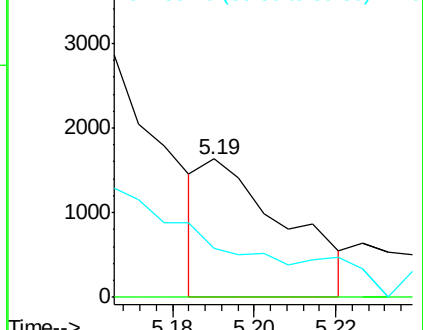
39 0.0 67.4 101.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 0.20 ppbv

RT: 5.93 min Scan# 466

Delta R.T. -0.04 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Tgt Ion: 43 Resp: 27651

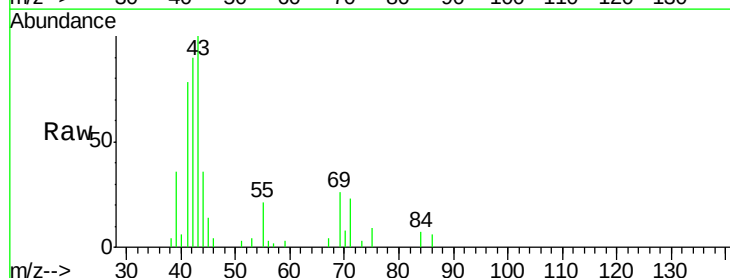
Ion Ratio Lower Upper

43 100

86 7.1 7.0 10.6

42 95.2 7.5 11.3#

44 2.7 3.6 5.4#

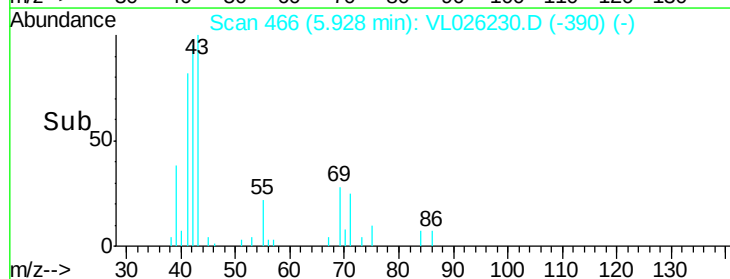
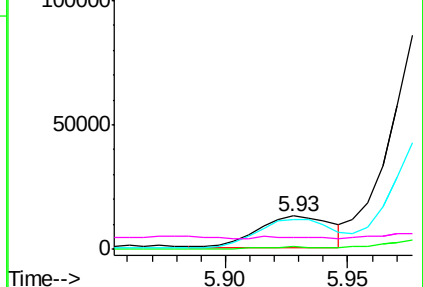


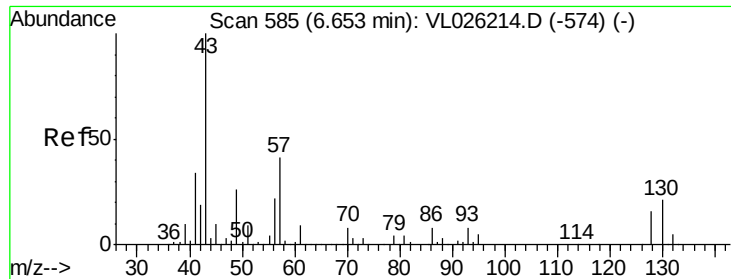
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

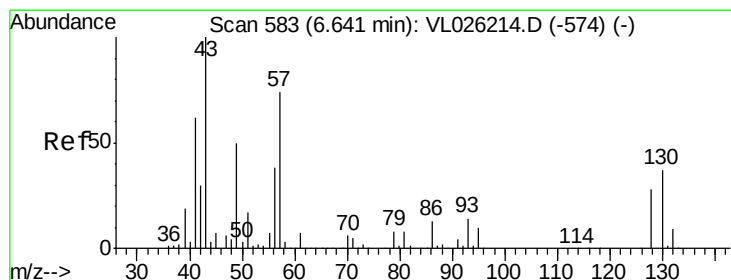
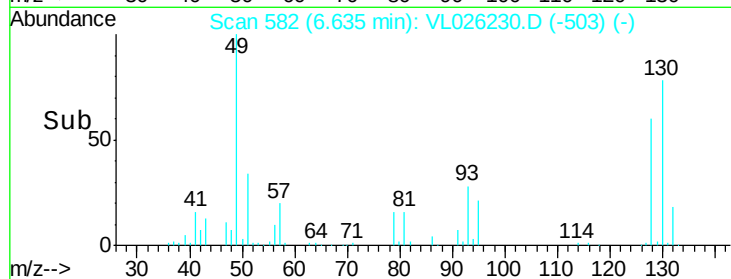
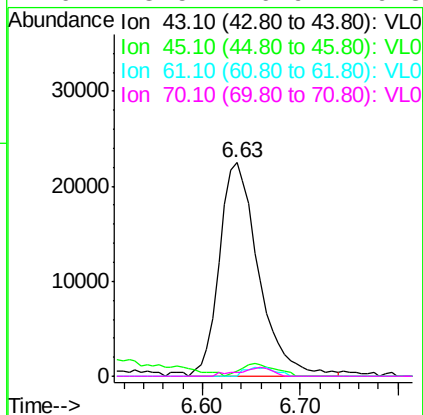
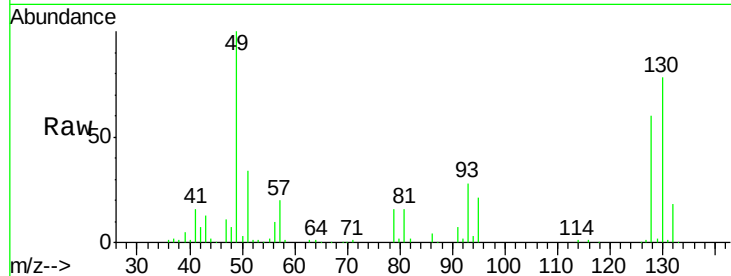




#25
Ethyl Acetate
Concen: 0.44 ppbv
RT: 6.63 min Scan# 582
Delta R.T. -0.02 min
Lab File: VL026230.D
Acq: 21 Oct 2015 6:53

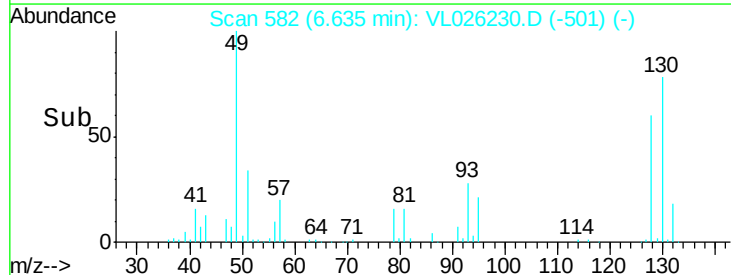
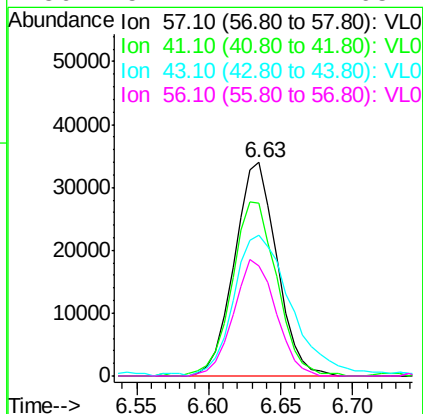
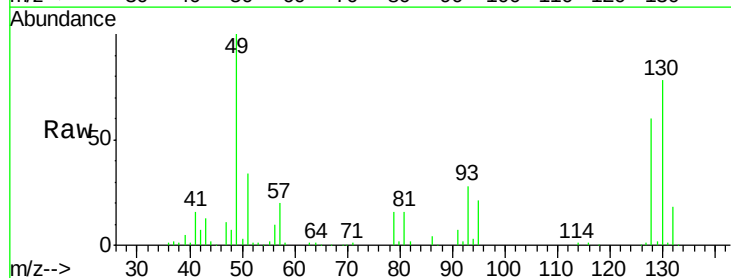
Instrument :
MSVOA_L
ClientSampleId :
RB-SUBSLAB-239

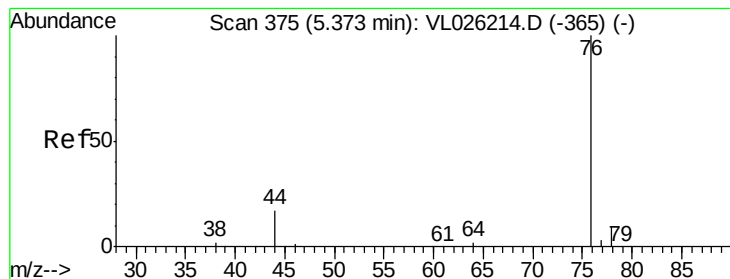
Tot Ion:	43	Resp:	62665
Ion	Ratio	Lower	Upper
43	100		
45	4.9	7.7	11.5#
61	3.1	7.5	11.3#
70	3.5	6.9	10.3#



#26
Hexane
Concen: 0.98 ppbv
RT: 6.63 min Scan# 582
Delta R.T. -0.01 min
Lab File: VL026230.D
Acq: 21 Oct 2015 6:53

Tgt Ion:	57	Resp:	69517
Ion	Ratio	Lower	Upper
57	100		
41	86.3	68.1	102.1
43	92.4	163.4	245.2#
56	54.4	42.2	63.4





#27

Carbon Disulfide

Concen: 0.19 ppbv

RT: 5.37 min Scan# 375

Delta R.T. 0.00 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

RB-SUBSLAB-239

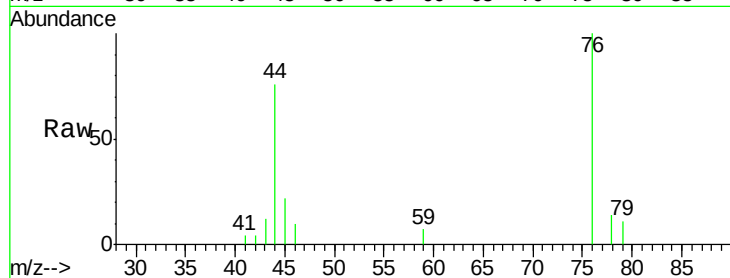
Tot Ion: 76 Resp: 17099

Ion Ratio Lower Upper

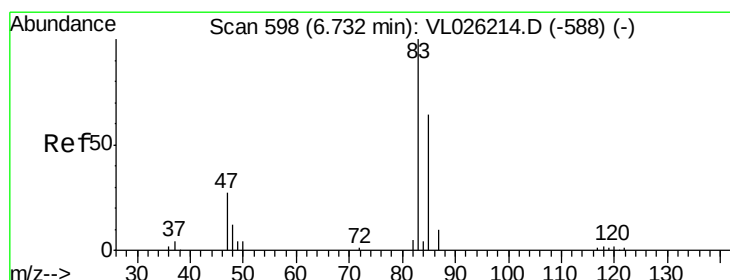
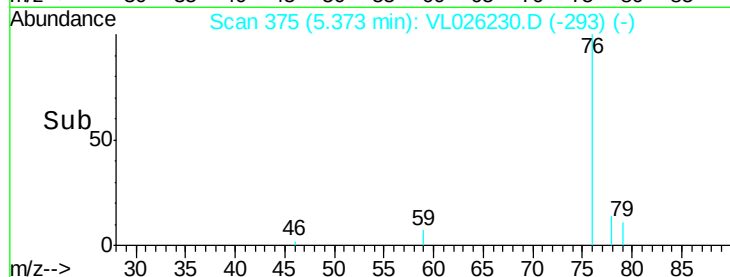
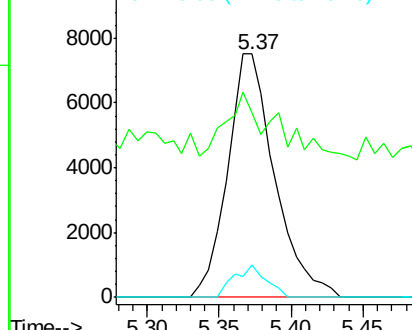
76 100

44 30.1 14.0 21.0#

78 9.0 7.4 11.2



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: 0.13 ppbv

RT: 6.71 min Scan# 595

Delta R.T. -0.02 min

Lab File: VL026230.D

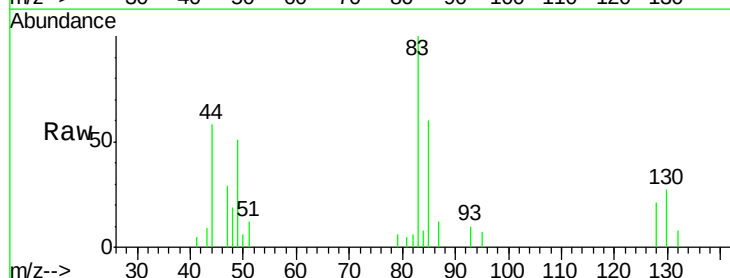
Acq: 21 Oct 2015 6:53

Tgt Ion: 83 Resp: 13673

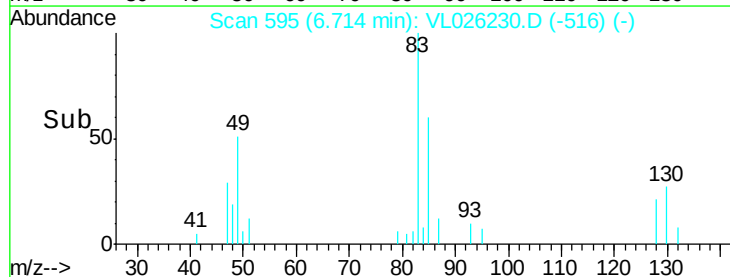
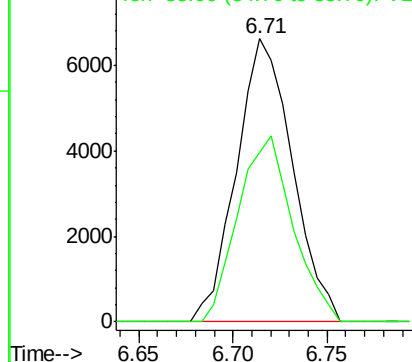
Ion Ratio Lower Upper

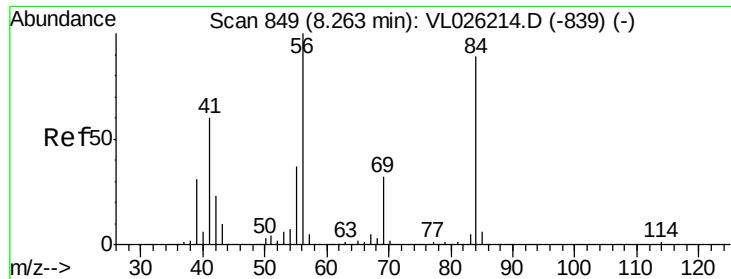
83 100

85 59.9 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

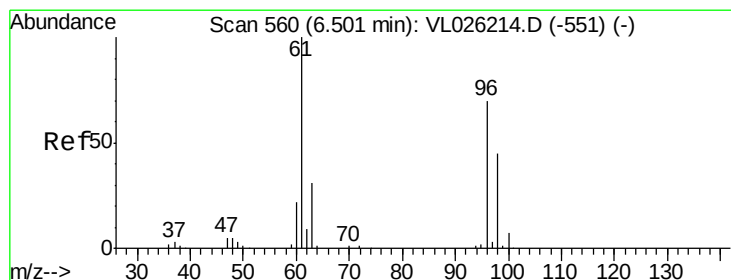
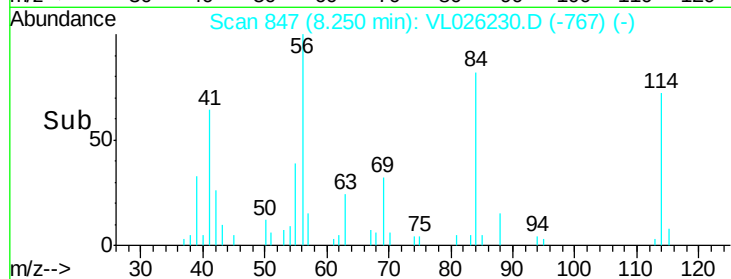
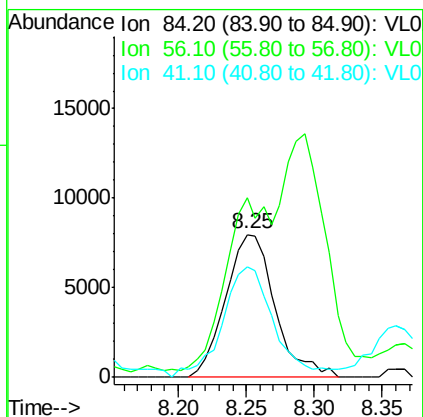
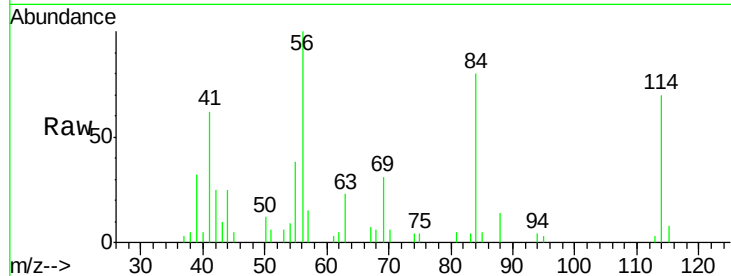




#30
Cyclohexane
Concen: 0.29 ppbv
RT: 8.25 min Scan# 847
Delta R.T. -0.01 min
Lab File: VL026230.D
Acq: 21 Oct 2015 6:53

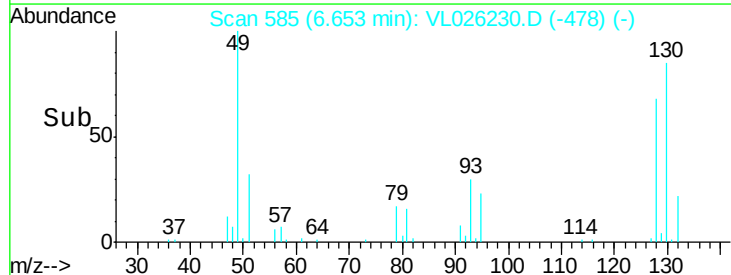
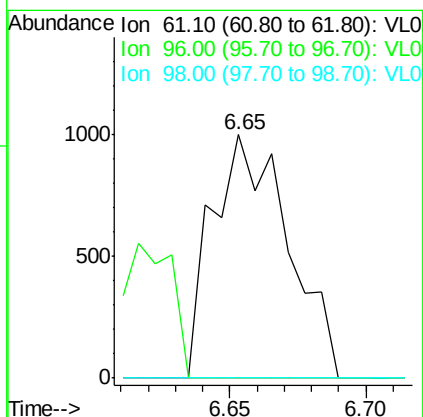
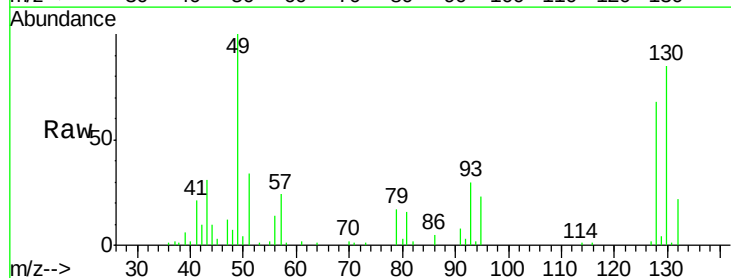
Instrument :
MSVOA_L
ClientSampleId :
RB-SUBSLAB-239

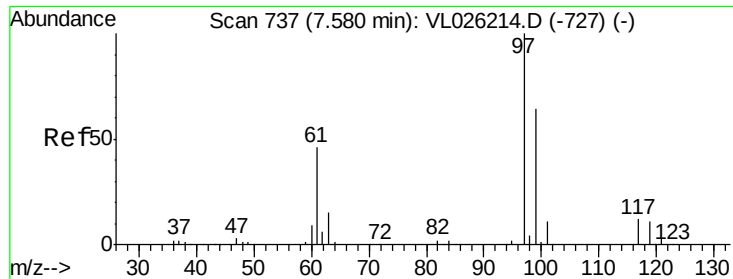
Tot Ion: 84 Resp: 20194
Ion Ratio Lower Upper
84 100
56 296.6 95.9 143.9#
41 79.5 54.8 82.2



#31
cis-1,2-Dichloroethene
Concen: 0.03 ppbv
RT: 6.65 min Scan# 585
Delta R.T. 0.15 min
Lab File: VL026230.D
Acq: 21 Oct 2015 6:53

Tgt Ion: 61 Resp: 1929
Ion Ratio Lower Upper
61 100
96 0.0 56.0 84.0#
98 0.0 36.1 54.1#





#32

1,1,1-Trichloroethane

Concen: 0.03 ppbv

RT: 7.57 min Scan# 736

Delta R.T. -0.01 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

RB-SUBSLAB-239

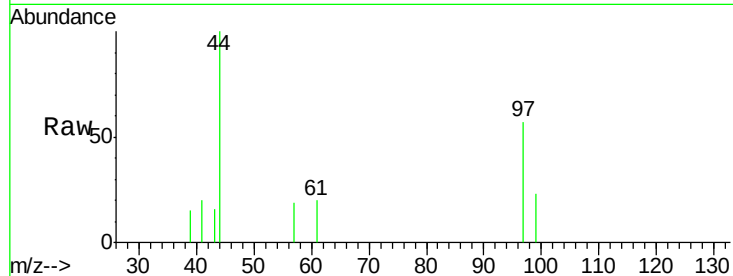
Tot Ion: 97 Resp: 3577

Ion Ratio Lower Upper

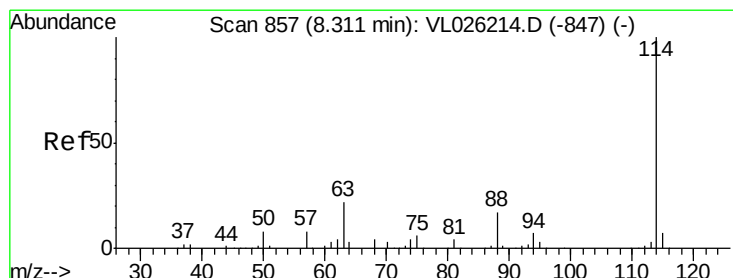
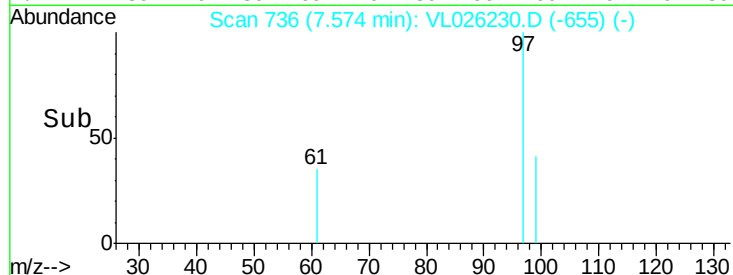
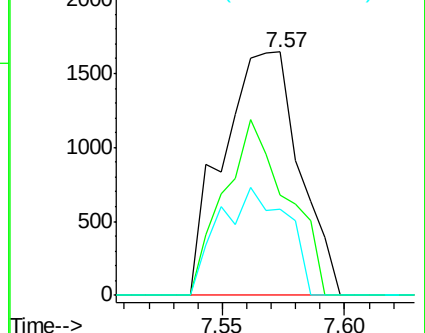
97 100

99 59.7 51.4 77.0

61 38.9 36.2 54.4



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.29 min Scan# 854

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

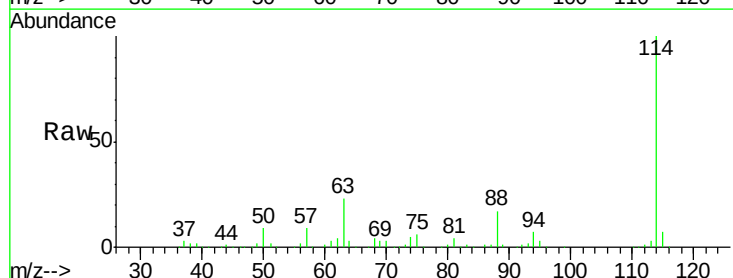
Tgt Ion: 114 Resp: 1492138

Ion Ratio Lower Upper

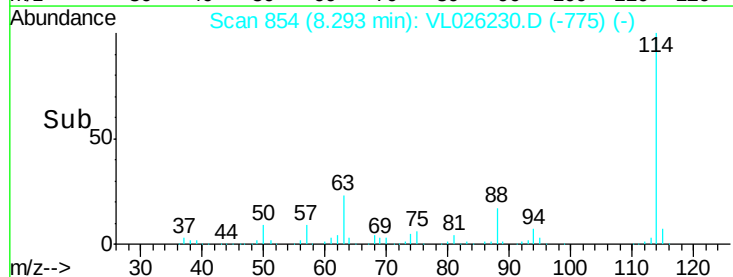
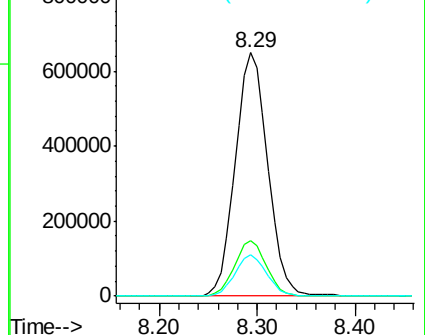
114 100

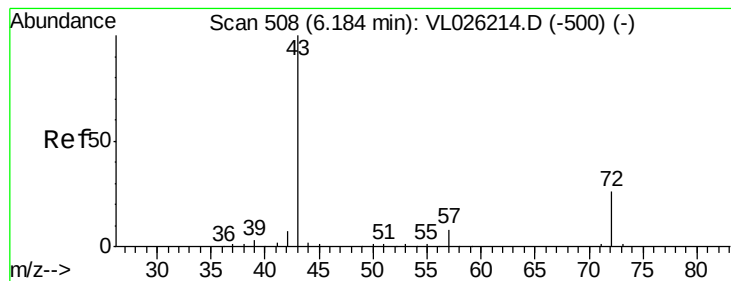
63 22.6 18.2 27.4

88 16.7 13.5 20.3



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: 0.31 ppbv

RT: 6.19 min Scan# 509

Delta R.T. 0.01 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

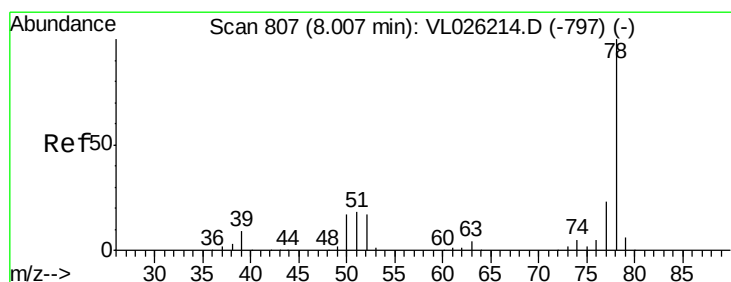
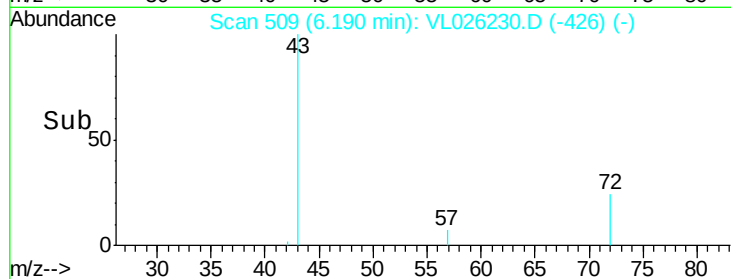
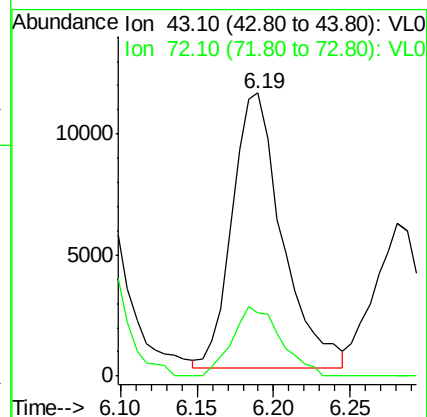
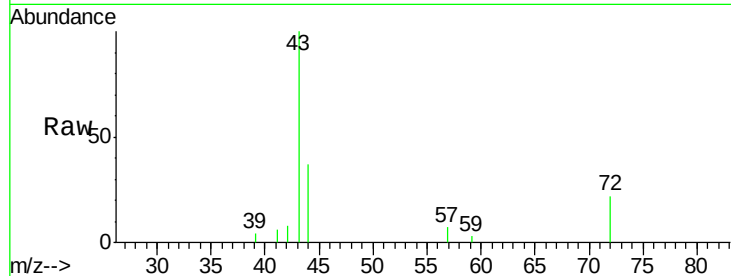
RB-SUBSLAB-239

Tot Ion: 43 Resp: 25798

Ion Ratio Lower Upper

43 100

72 24.5 20.1 30.1



#36

Benzene

Concen: 0.10 ppbv

RT: 7.99 min Scan# 804

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

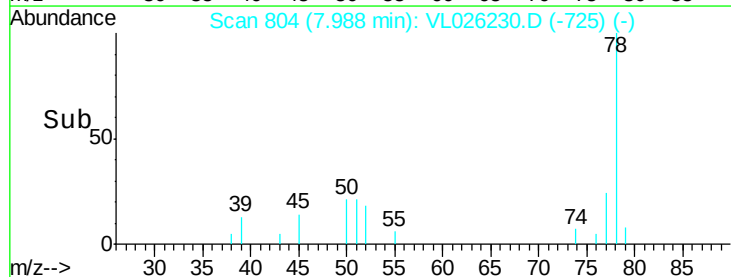
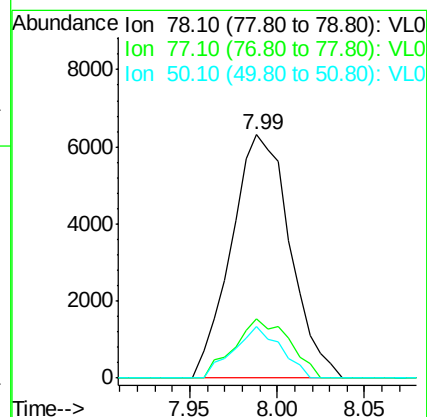
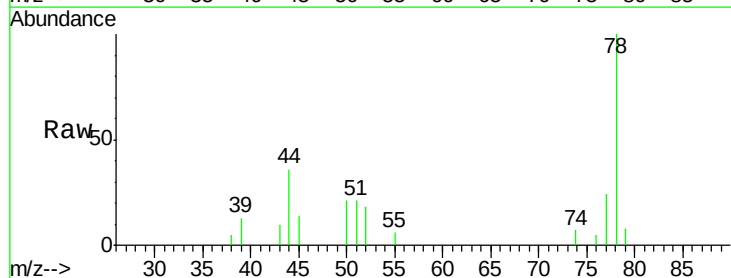
Tgt Ion: 78 Resp: 14739

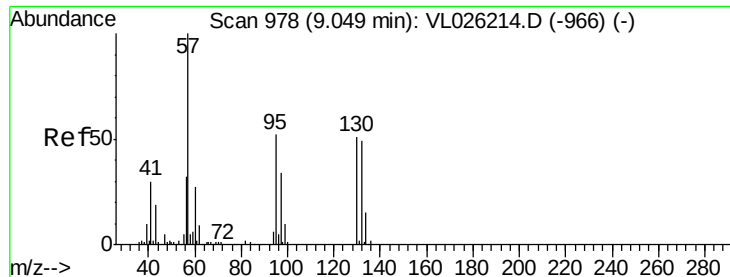
Ion Ratio Lower Upper

78 100

77 24.2 18.1 27.1

50 21.4 13.8 20.8#





#38

Trichloroethene

Concen: 0.72 ppbv

RT: 9.03 min Scan# 975

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

RB-SUBSLAB-239

Tot Ion:130 Resp: 52959

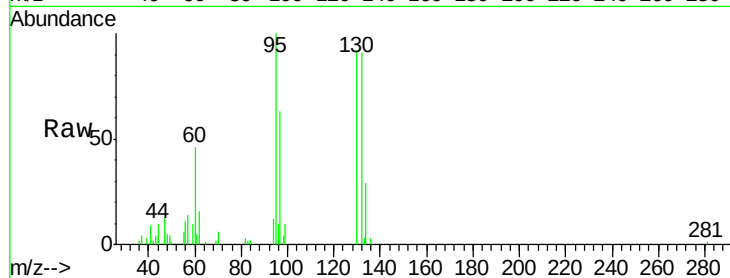
Ion Ratio Lower Upper

130 100

95 108.7 81.0 121.4

132 99.1 76.5 114.7

97 68.2 52.5 78.7

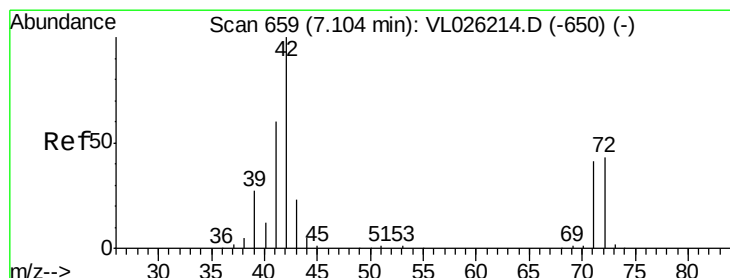
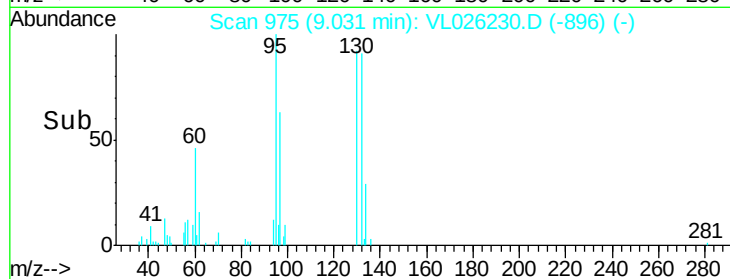
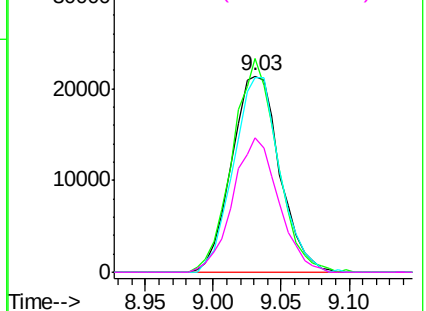


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#41

Tetrahydrofuran

Concen: 1.17 ppbv

RT: 7.11 min Scan# 660

Delta R.T. 0.01 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

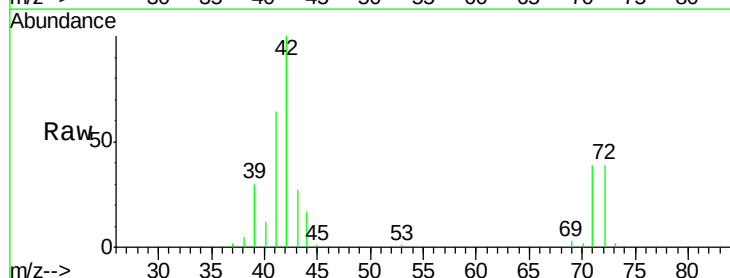
Tgt Ion: 42 Resp: 57230

Ion Ratio Lower Upper

42 100

72 43.1 34.3 51.5

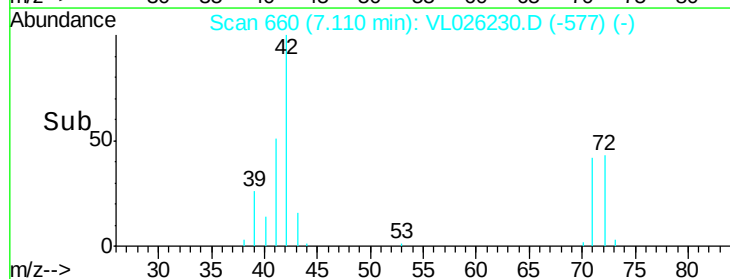
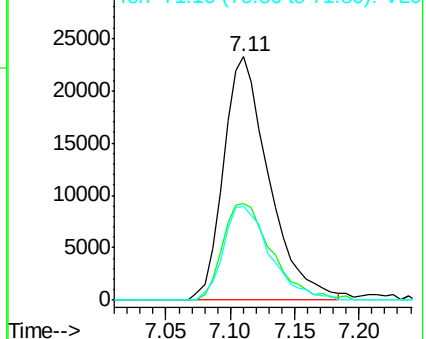
71 39.6 32.1 48.1

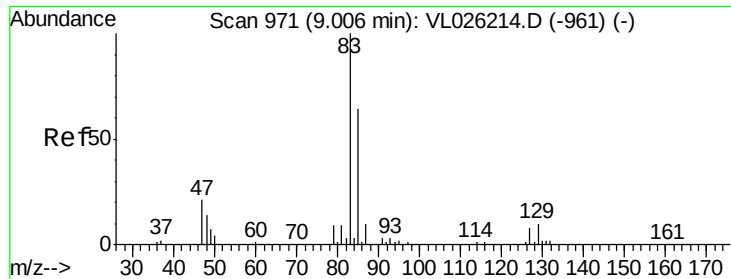


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.03 ppbv

RT: 8.98 min Scan# 966

Delta R.T. -0.03 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

RB-SUBSLAB-239

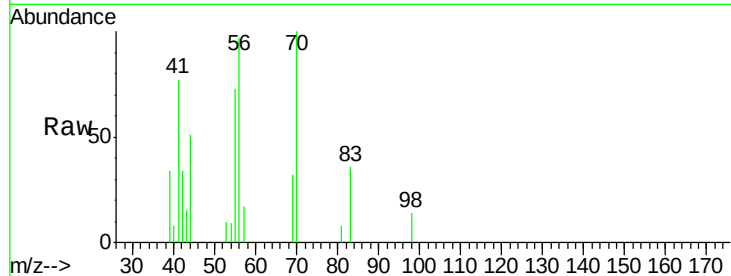
Tot Ion: 83 Resp: 3278

Ion Ratio Lower Upper

83 100

85 0.0 50.9 76.3#

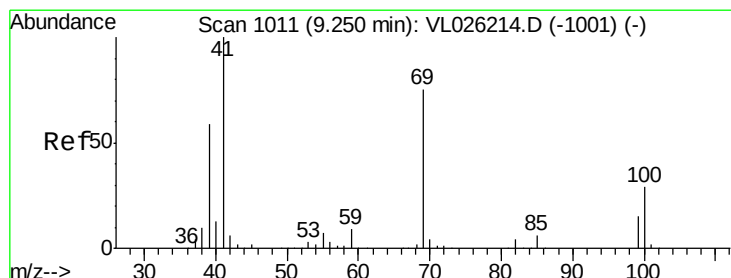
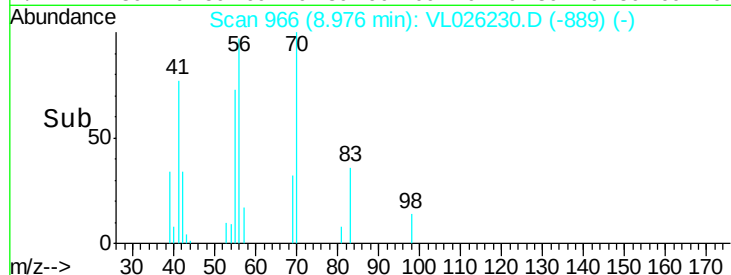
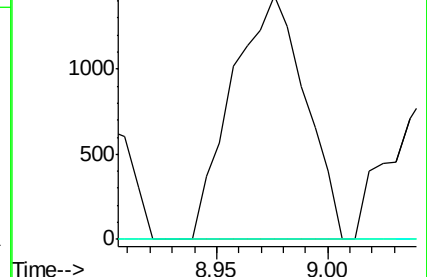
127 0.0 6.2 9.4#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.12 ppbv

RT: 9.24 min Scan# 1009

Delta R.T. -0.01 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

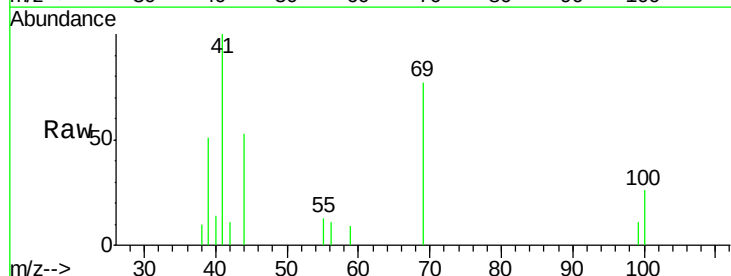
Tgt Ion: 69 Resp: 6617

Ion Ratio Lower Upper

69 100

41 145.9 108.4 162.6

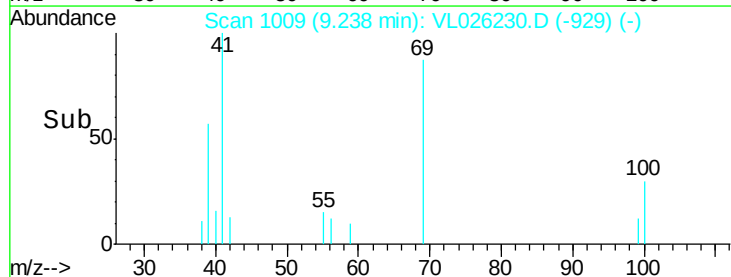
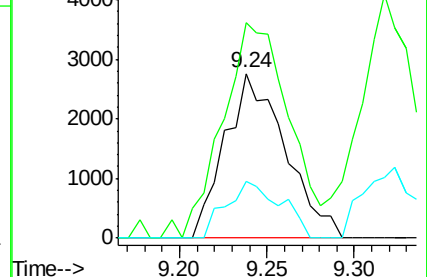
100 31.2 30.6 45.8

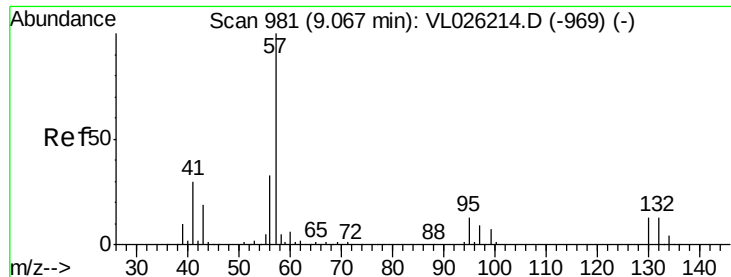


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

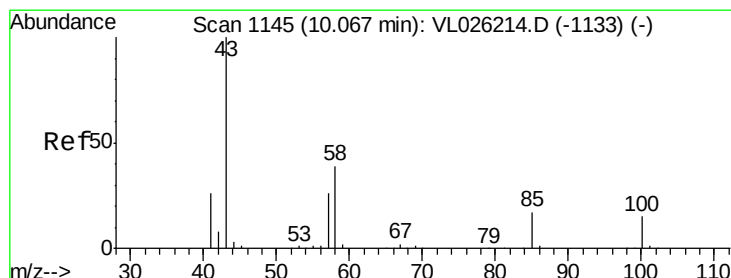
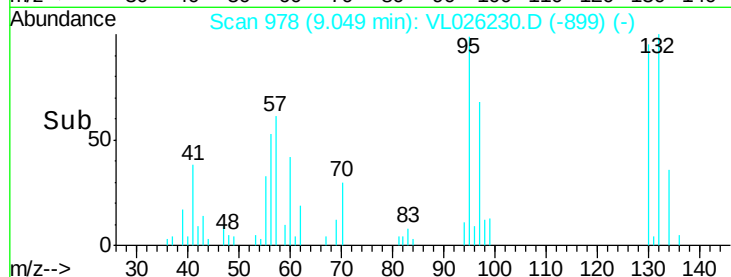
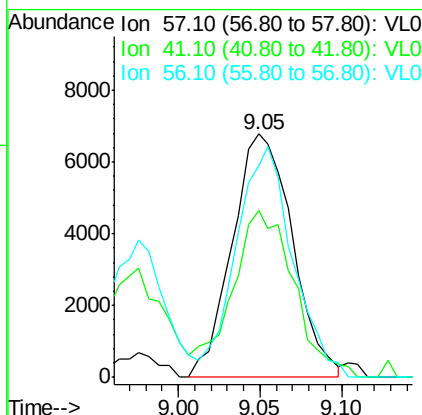
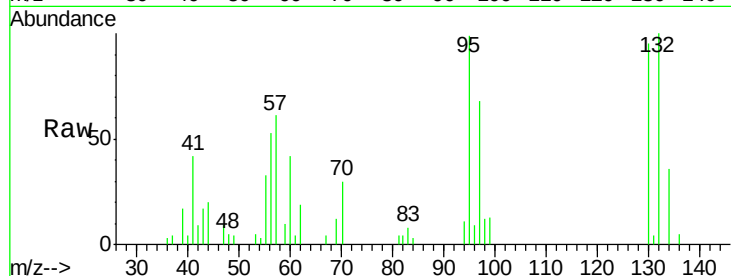




#44
 2,2,4-Trimethylpentane
 Concen: 0.07 ppbv
 RT: 9.05 min Scan# 978
 Delta R.T. -0.02 min
 Lab File: VL026230.D
 Acq: 21 Oct 2015 6:53

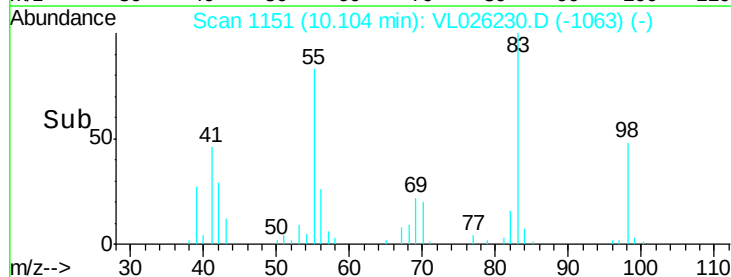
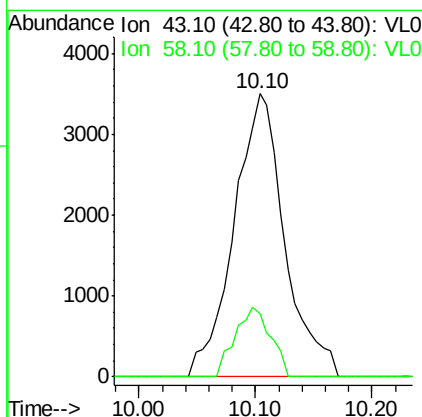
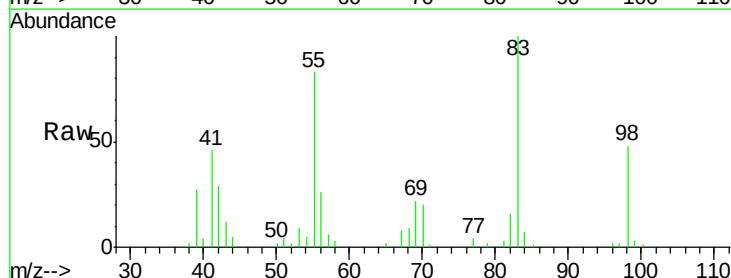
Instrument :
 MSVOA_L
 ClientSampleId :
 RB-SUBSLAB-239

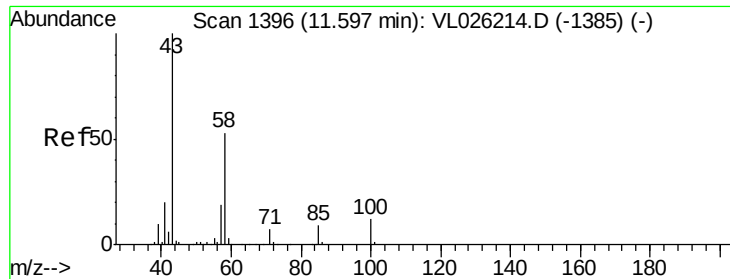
Tot Ion: 57 Resp: 17401
 Ion Ratio Lower Upper
 57 100
 41 71.9 23.7 35.5#
 56 89.8 25.9 38.9#



#50
 4-Methyl-2-Pentanone
 Concen: 0.09 ppbv
 RT: 10.10 min Scan# 1151
 Delta R.T. 0.04 min
 Lab File: VL026230.D
 Acq: 21 Oct 2015 6:53

Tgt Ion: 43 Resp: 10629
 Ion Ratio Lower Upper
 43 100
 58 17.3 31.1 46.7#

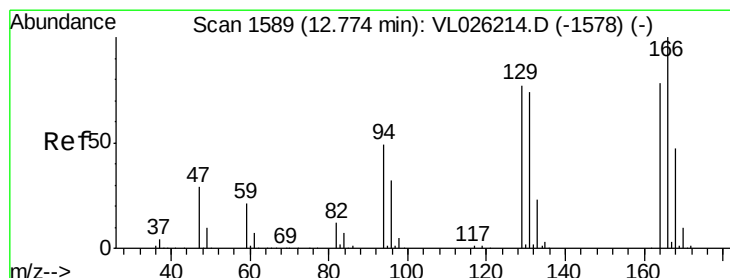
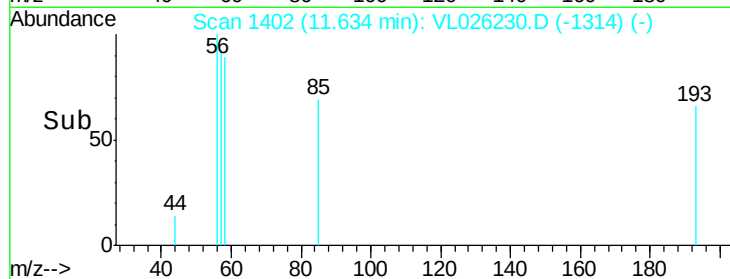
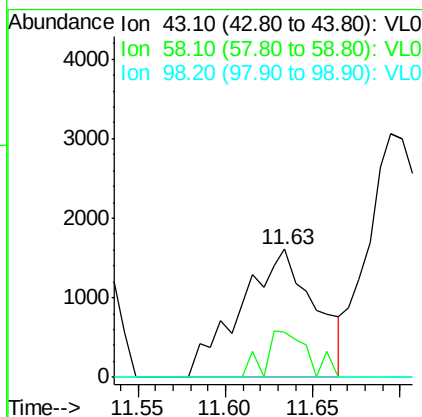
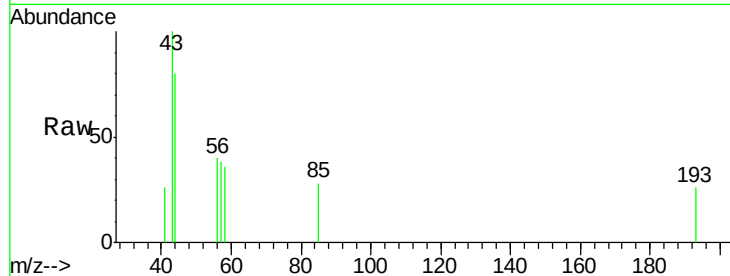




#51
2-Hexanone
Concen: 0.04 ppbv
RT: 11.63 min Scan# 1402
Delta R.T. 0.04 min
Lab File: VL026230.D
Acq: 21 Oct 2015 6:53

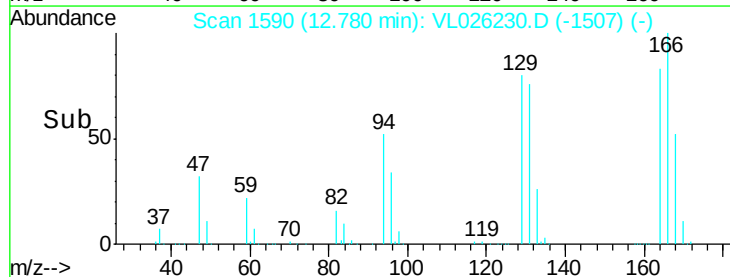
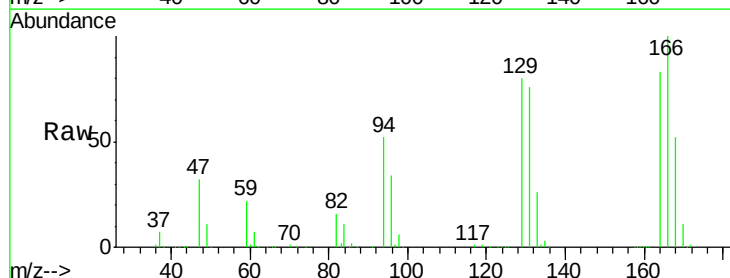
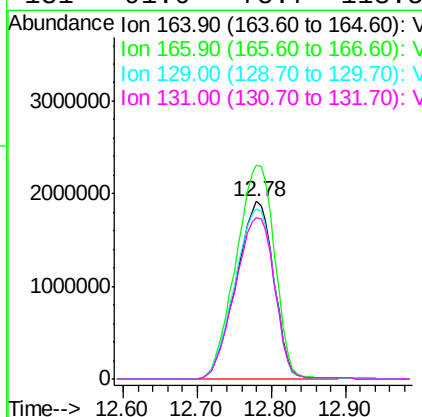
Instrument :
MSVOA_L
ClientSampleId :
RB-SUBSLAB-239

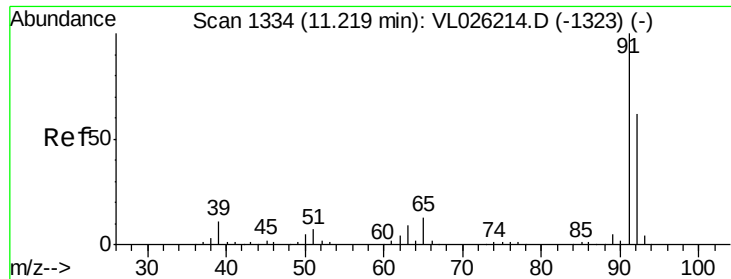
Tot Ion: 43 Resp: 4783
Ion Ratio Lower Upper
43 100
58 20.5 43.2 64.8#
98 0.0 0.0 0.0



#52
Tetrachloroethene
Concen: 78.10 ppbv
RT: 12.78 min Scan# 1590
Delta R.T. 0.01 min
Lab File: VL026230.D
Acq: 21 Oct 2015 6:53

Tgt Ion: 164 Resp: 6807068
Ion Ratio Lower Upper
164 100
166 120.4 102.3 153.5
129 96.3 78.2 117.4
131 91.0 75.7 113.5





#53

Toluene

Concen: 1.87 ppbv

RT: 11.20 min Scan# 1331

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

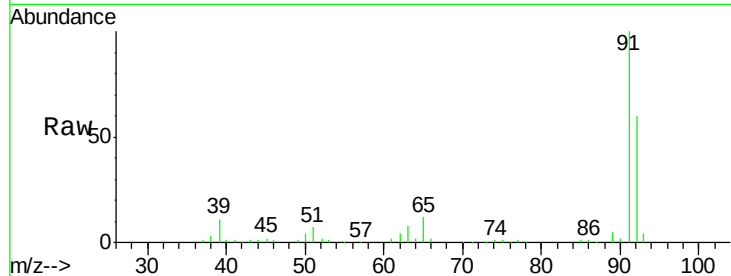
RB-SUBSLAB-239

Tot Ion: 91 Resp: 385582

Ion Ratio Lower Upper

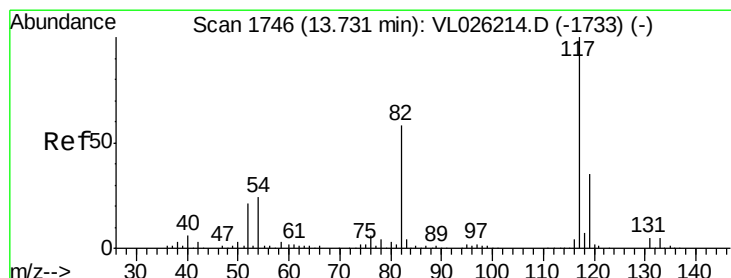
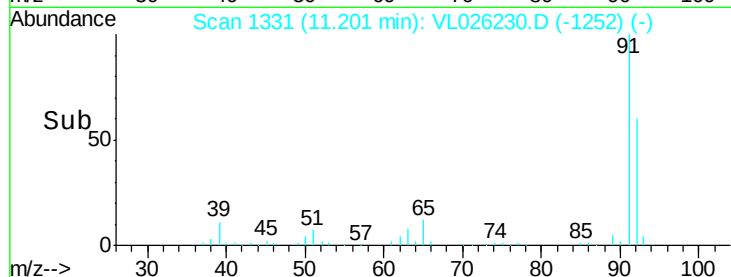
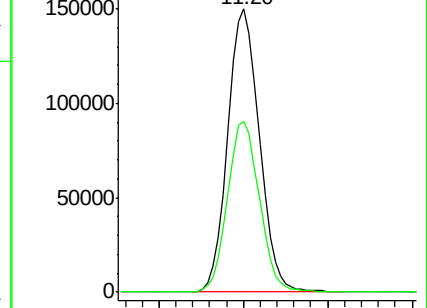
91 100

92 60.9 49.2 73.8



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: 13.71 min Scan# 1743

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

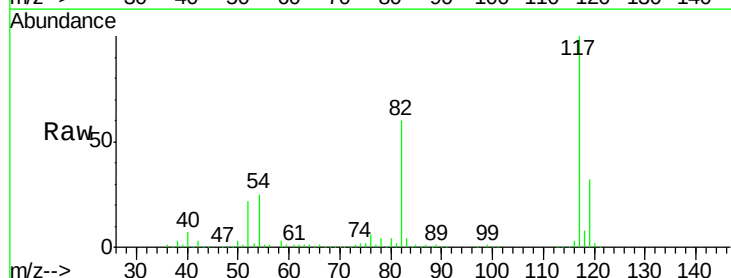
Tgt Ion: 117 Resp: 1829026

Ion Ratio Lower Upper

117 100

82 60.8 45.8 68.8

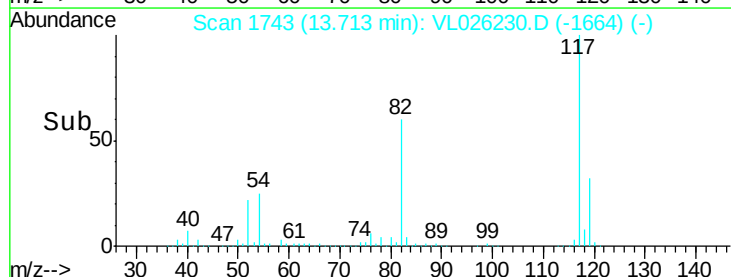
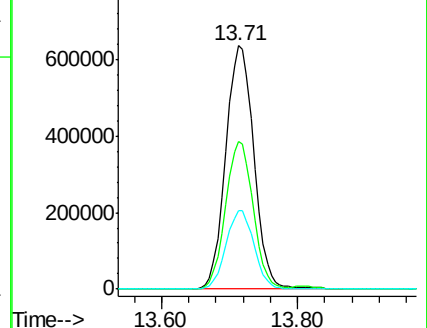
119 32.3 45.0 67.4#

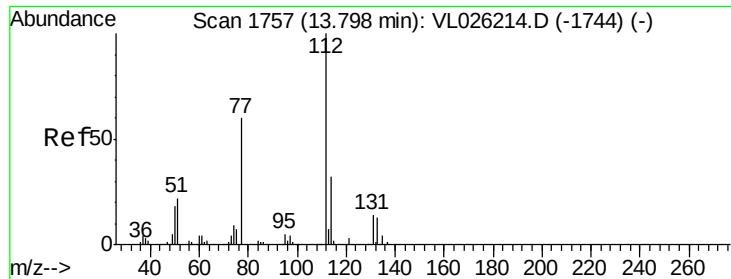


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#57

Chlorobenzene

Concen: 0.04 ppbv

RT: 13.80 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

RB-SUBSLAB-239

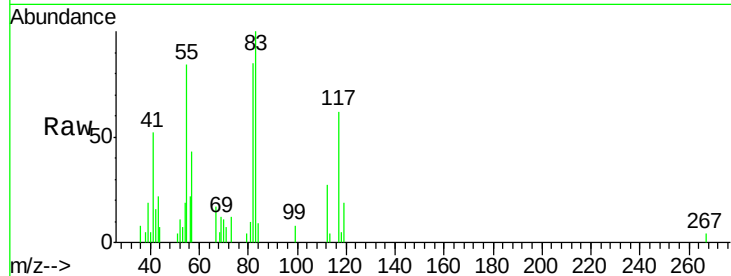
Tot Ion:112 Resp: 6318

Ion Ratio Lower Upper

112 100

77 0.0 48.4 72.6#

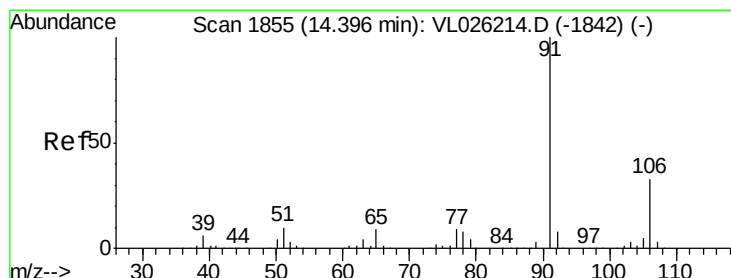
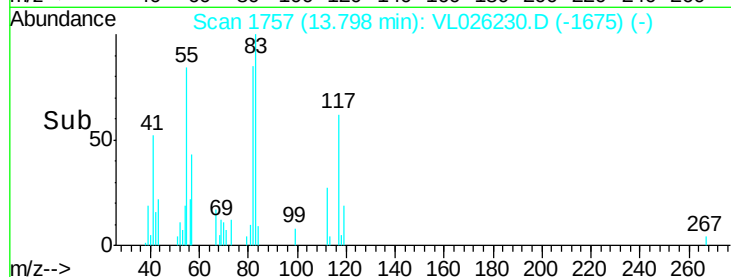
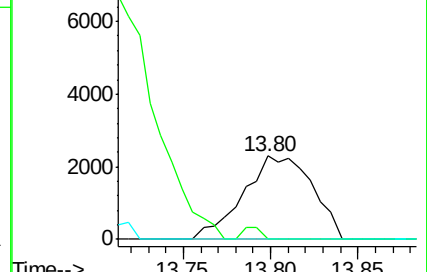
114 0.0 29.0 35.4#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.13 ppbv

RT: 14.38 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VL026230.D

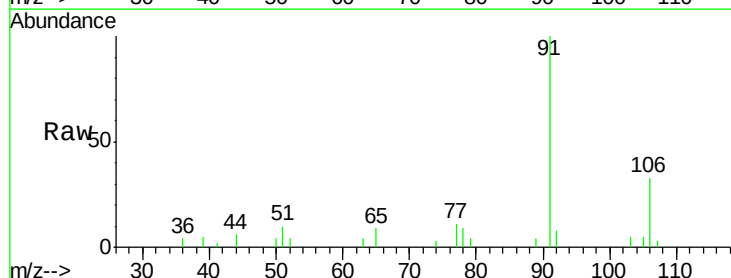
Acq: 21 Oct 2015 6:53

Tgt Ion: 91 Resp: 37599

Ion Ratio Lower Upper

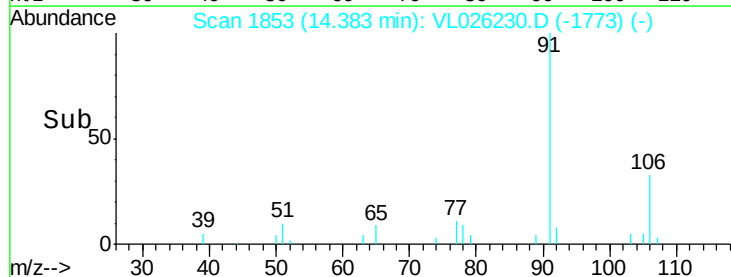
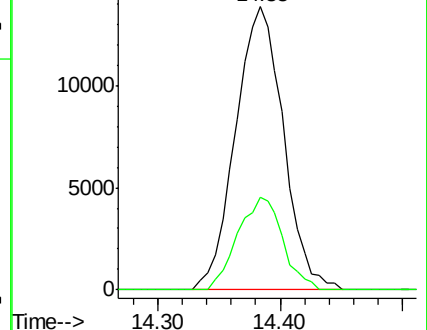
91 100

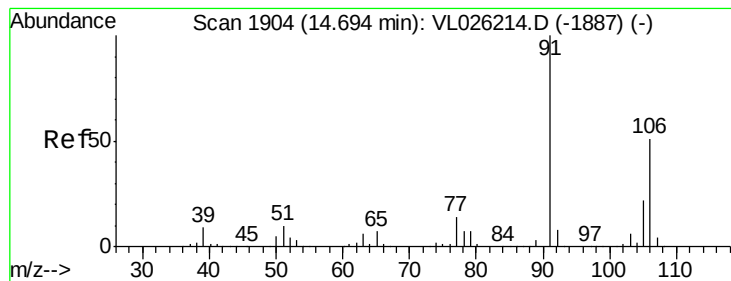
106 32.9 26.1 39.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.41 ppbv

RT: 14.66 min Scan# 1898

Delta R.T. -0.04 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

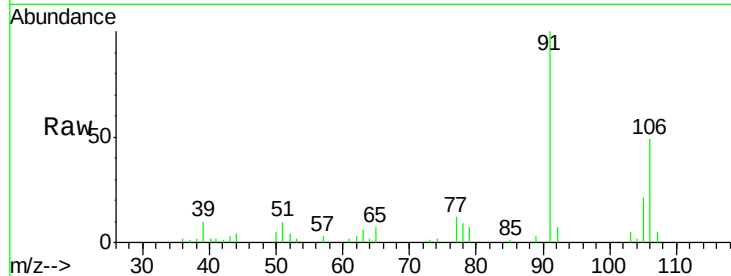
RB-SUBSLAB-239

Tot Ion: 91 Resp: 95165

Ion Ratio Lower Upper

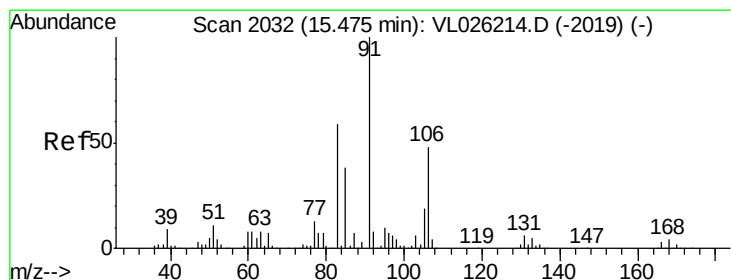
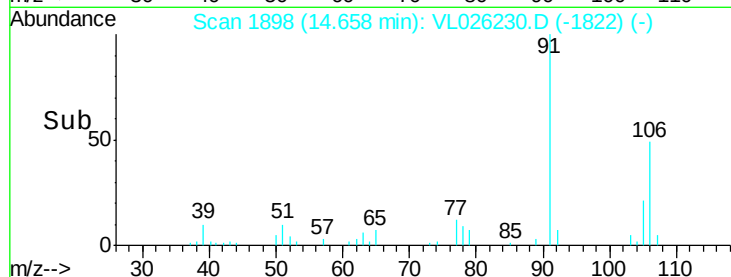
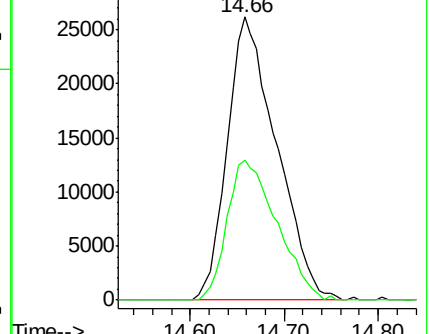
91 100

106 50.0 40.6 61.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.16 ppbv

RT: 15.46 min Scan# 2030

Delta R.T. -0.01 min

Lab File: VL026230.D

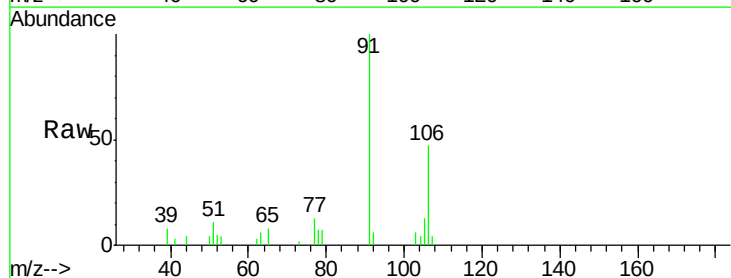
Acq: 21 Oct 2015 6:53

Tgt Ion: 91 Resp: 39935

Ion Ratio Lower Upper

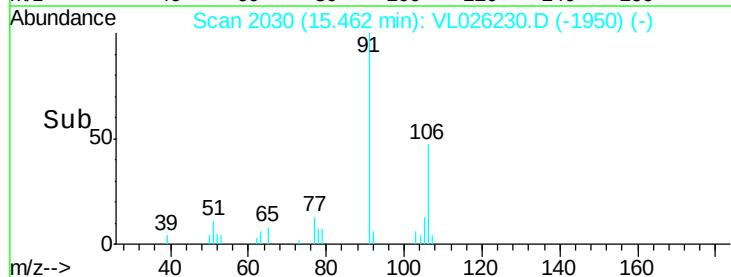
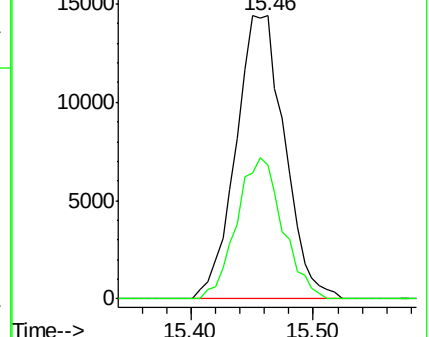
91 100

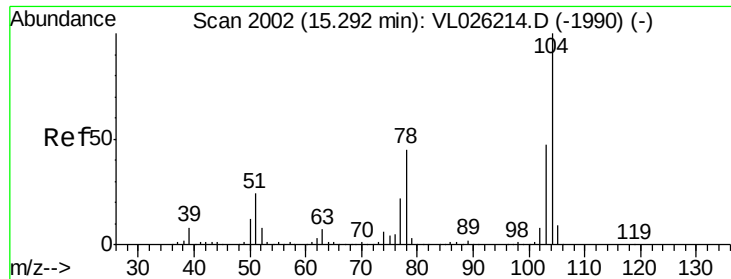
106 47.0 23.8 71.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

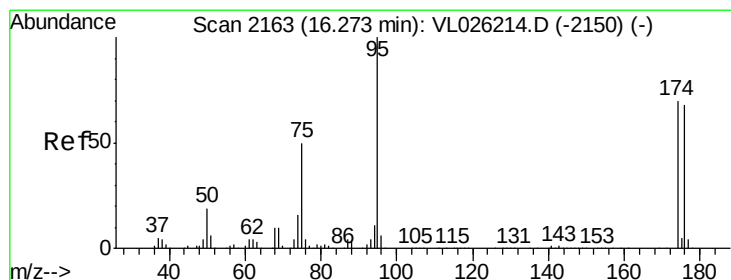
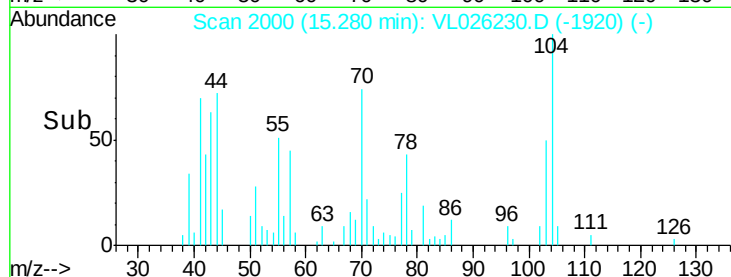
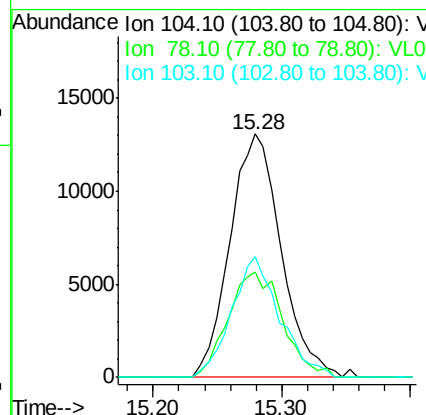
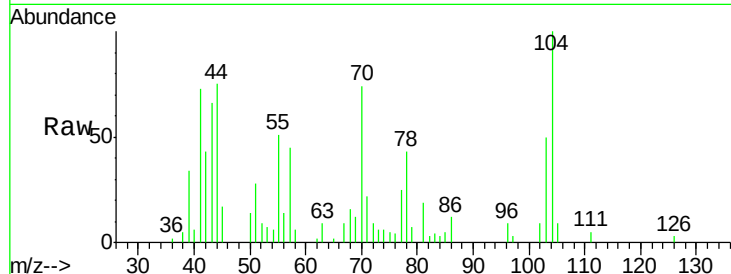




#61
Stvrene
Concen: 0.33 ppbv
RT: 15.28 min Scan# 2000
Delta R.T. -0.01 min
Lab File: VL026230.D
Acq: 21 Oct 2015 6:53

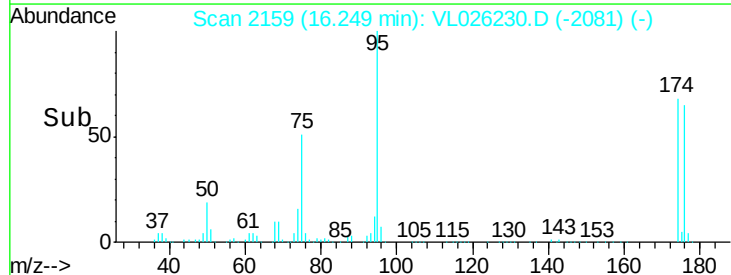
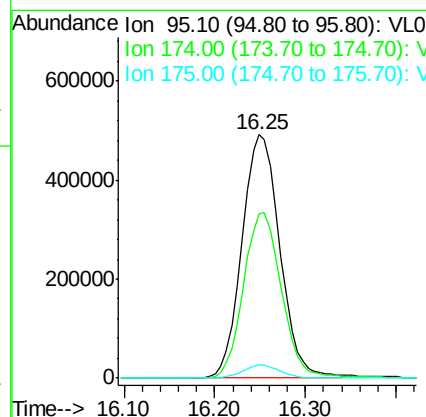
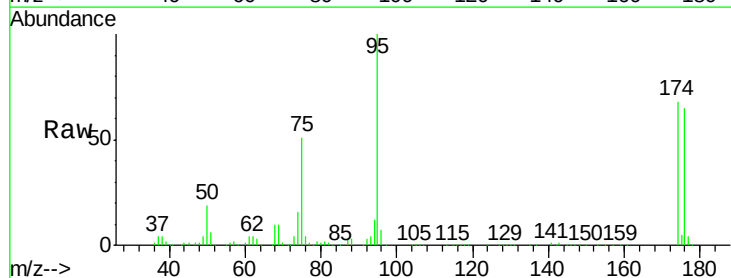
Instrument :
MSVOA_L
ClientSampleId :
RB-SUBSLAB-239

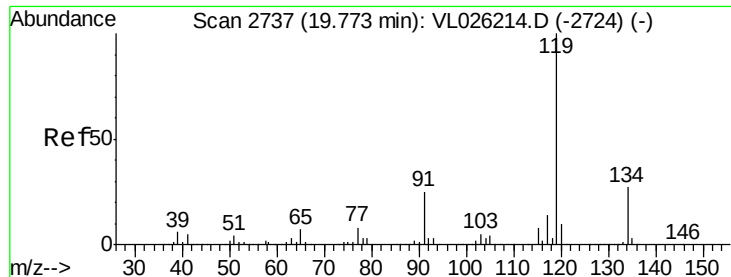
Tot Ion:104 Resp: 36048
Ion Ratio Lower Upper
104 100
78 46.0 35.3 52.9
103 46.8 37.0 55.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.13 ppbv
RT: 16.25 min Scan# 2159
Delta R.T. -0.02 min
Lab File: VL026230.D
Acq: 21 Oct 2015 6:53

Tgt Ion: 95 Resp: 1429114
Ion Ratio Lower Upper
95 100
174 68.8 55.8 83.8
175 5.2 4.3 6.5





#69

p-Isopropyltoluene

Concen: 0.02 ppbv

RT: 19.75 min Scan# 2734

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

RB-SUBSLAB-239

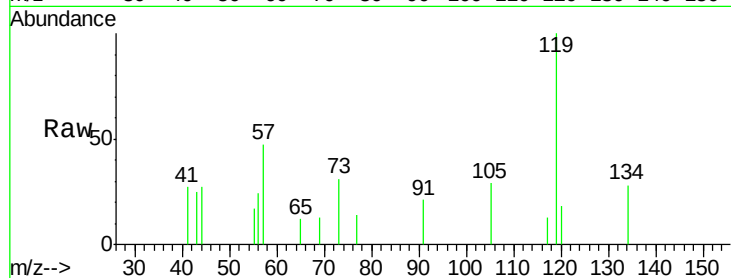
Tot Ion:119 Resp: 7632

Ion Ratio Lower Upper

119 100

134 20.0 21.4 32.0#

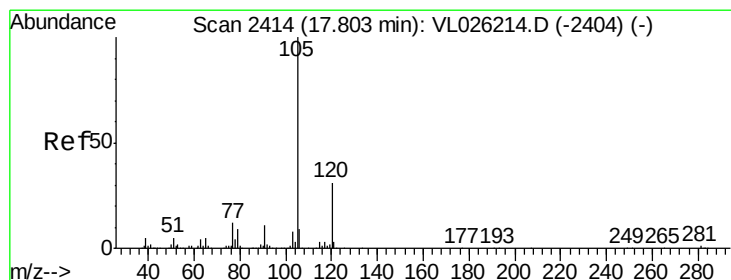
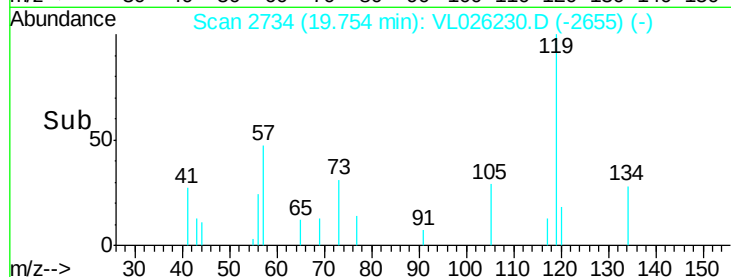
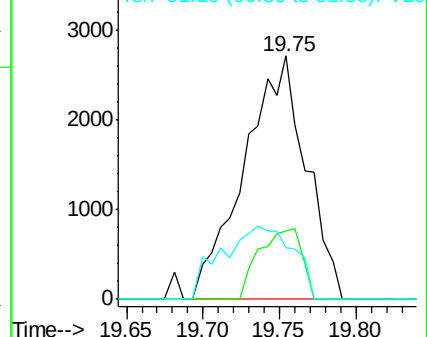
91 34.6 19.5 29.3#



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VLO



#72

4-Ethyltoluene

Concen: 0.03 ppbv

RT: 17.79 min Scan# 2411

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Tgt Ion:105 Resp: 9633

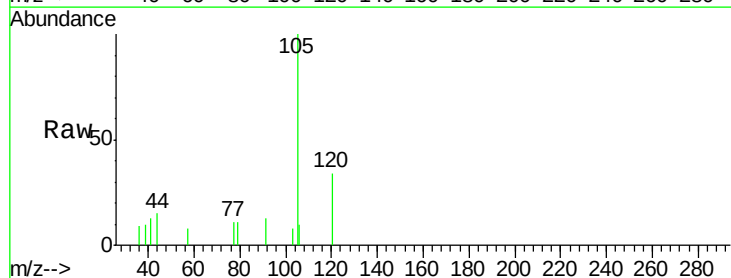
Ion Ratio Lower Upper

105 100

120 28.4 25.2 37.8

91 12.1 9.0 13.6

77 10.4 9.7 14.5

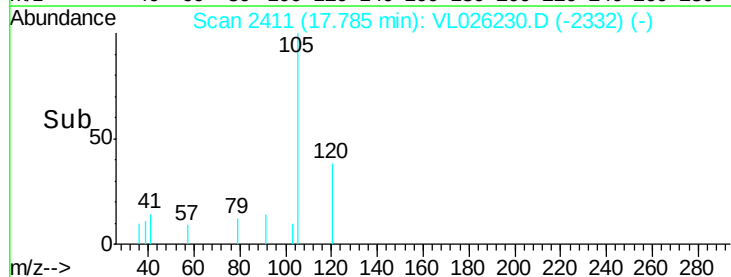
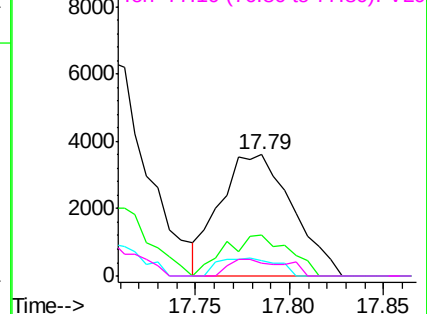


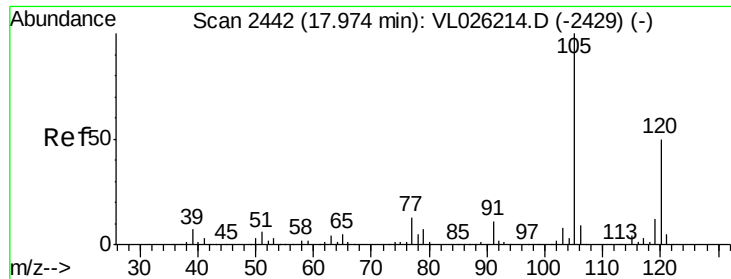
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO

Ion 77.10 (76.80 to 77.80): VLO





#73

1,3,5-Trimethylbenzene

Concen: 0.04 ppbv

RT: 17.95 min Scan# 2438

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

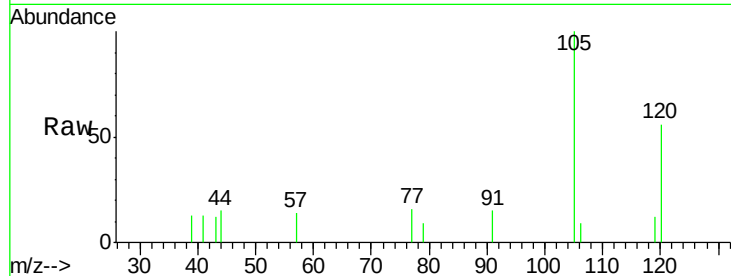
RB-SUBSLAB-239

Tot Ion:105 Resp: 9580

Ion Ratio Lower Upper

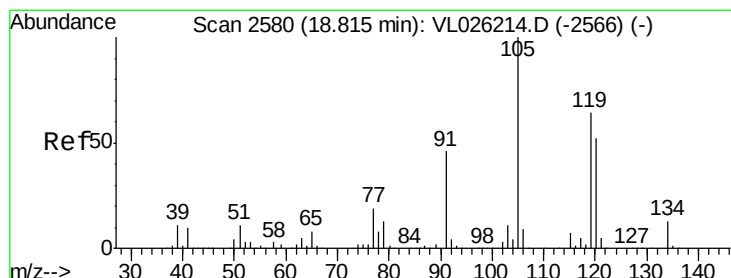
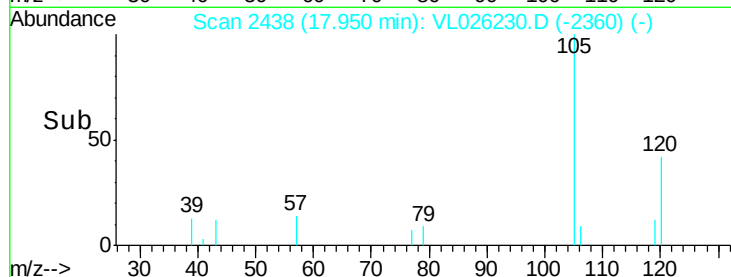
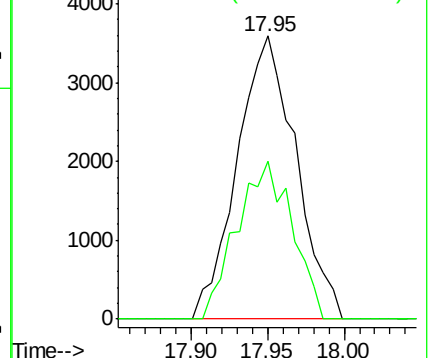
105 100

120 55.9 39.8 59.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.12 ppbv

RT: 18.79 min Scan# 2576

Delta R.T. -0.02 min

Lab File: VL026230.D

Acq: 21 Oct 2015 6:53

Tgt Ion:105 Resp: 32647

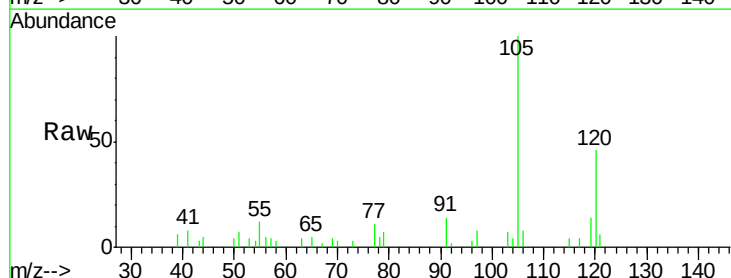
Ion Ratio Lower Upper

105 100

120 46.1 41.2 61.8

91 13.9 37.2 55.8#

77 11.0 15.6 23.4#

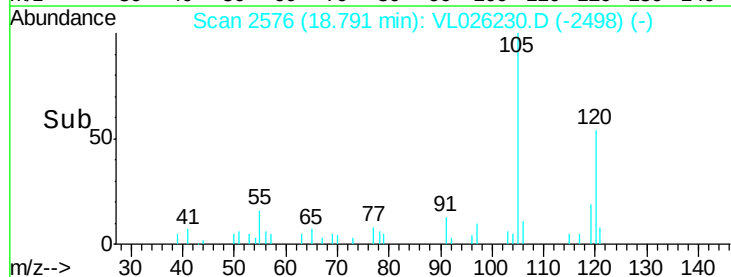
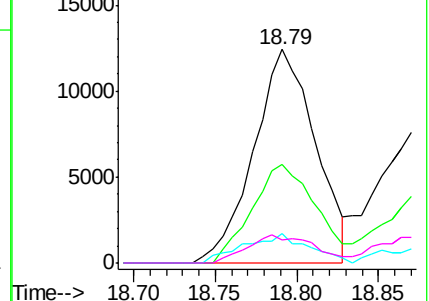


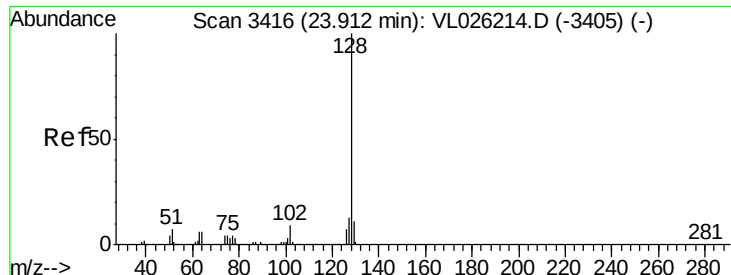
Abundance Ion 105.10 (104.80 to 105.80): V

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





#79

Naphthalene

Concen: 0.02 ppbv

RT: 23.91 min Scan# 3416

Delta R.T. 0.00 min

Lab File: VL026230.D

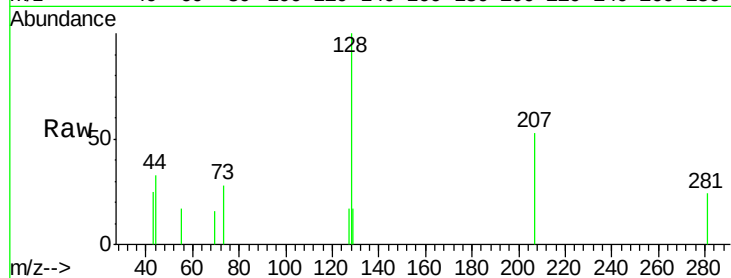
Acq: 21 Oct 2015 6:53

Instrument :

MSVOA_L

ClientSampleId :

RB-SUBSLAB-239



Tot Ion:128 Resp: 4919

Ion Ratio Lower Upper

128 100

127 14.5 10.4 15.6

129 14.8 8.8 13.2#

