

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL090518\
 Data File : VL032469.D
 Acq On : 5 Sep 2018 23:53
 Operator : SY/AP
 Sample : J4805-02 4X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-2

Quant Time: Sep 06 05:01:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018
 QLast Update : Fri Aug 31 21:33:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1620952	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3134295	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3187859	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2454774	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	15380	0.074	ppbv	95
3) Chlorodifluoromethane	3.04	51	22704	0.155	ppbv	94
4) Chloromethane	3.20	50	56653	0.638	ppbv	96
7) Chloroethane	3.63	64	4533	0.149	ppbv #	83
9) Propene	3.06	41	1055285	17.829	ppbv	93
10) Heptane	8.29	43	85433	0.402	ppbv	98
11) Trichlorofluoromethane	4.04	101	9881	0.053	ppbv	97
13) Ethanol	3.68	45	511950	27.748	ppbv	98
15) Acetone	3.93	43	1311921	8.988	ppbv #	60
16) 1,3-Butadiene	3.37	39	702149	10.222	ppbv #	12
17) tert-Butyl alcohol	4.40	59	119608	5.325	ppbv #	100
19) Isopropyl Alcohol	4.06	45	45659	0.477	ppbv #	1
20) Methylene Chloride	4.45	84	85949	1.544	ppbv	97
21) Allyl Chloride	4.50	41	4056	0.042	ppbv #	1
23) Vinyl Acetate	5.18	43	803374	3.320	ppbv #	80
24) 1,1-Dichloroethane	5.13	63	8970	0.045	ppbv #	94
25) Ethyl Acetate	5.82	43	210031	0.609	ppbv #	83
26) Hexane	5.82	57	232935	1.509	ppbv #	46
27) Carbon Disulfide	4.66	76	383608	2.692	ppbv	98
28) Methyl tert-Butyl Ether	5.29	73	11407	0.060	ppbv #	1
29) Chloroform	5.89	83	402824	1.712	ppbv	98
30) Cyclohexane	7.29	84	10580	0.094	ppbv #	1
32) 1,1,1-Trichloroethane	6.67	97	54203	0.247	ppbv #	12
34) 2-Butanone	5.36	43	5010966	24.069	ppbv	100
36) Benzene	7.05	78	177825	0.667	ppbv	97
38) Trichloroethene	8.01	130	1008274	9.951	ppbv	99
39) 1,2-Dichloropropane	7.34	63	845621	7.410	ppbv #	28
41) Tetrahydrofuran	6.20	42	42665	0.376	ppbv	93
44) 2,2,4-Trimethylpentane	8.04	57	15739	0.031	ppbv #	1
47) 1,1,2-Trichloroethane	9.90	97	64769	0.534	ppbv #	1
50) 4-Methyl-2-Pentanone	8.92	43	78941	0.252	ppbv	93
51) 2-Hexanone	10.31	43	846263	4.189	ppbv #	98
52) Tetrachloroethene	11.43	164	8997	0.109	ppbv	96
53) Toluene	9.99	91	300175	1.077	ppbv	100
58) Ethyl Benzene	12.92	91	56143	0.147	ppbv	89
59) m/p-Xylene	13.21	91	21668	0.064	ppbv #	31
60) o-Xylene	13.90	91	24738	0.074	ppbv #	32
61) Styrene	13.74	104	10175	0.047	ppbv #	76
73) 1,3,5-Trimethylbenzene	16.21	105	11297	0.031	ppbv	94
74) 1,2,4-Trimethylbenzene	16.97	105	42551	0.107	ppbv #	71
79) Naphthalene	22.47	128	1650180	5.079	ppbv	98

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QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration

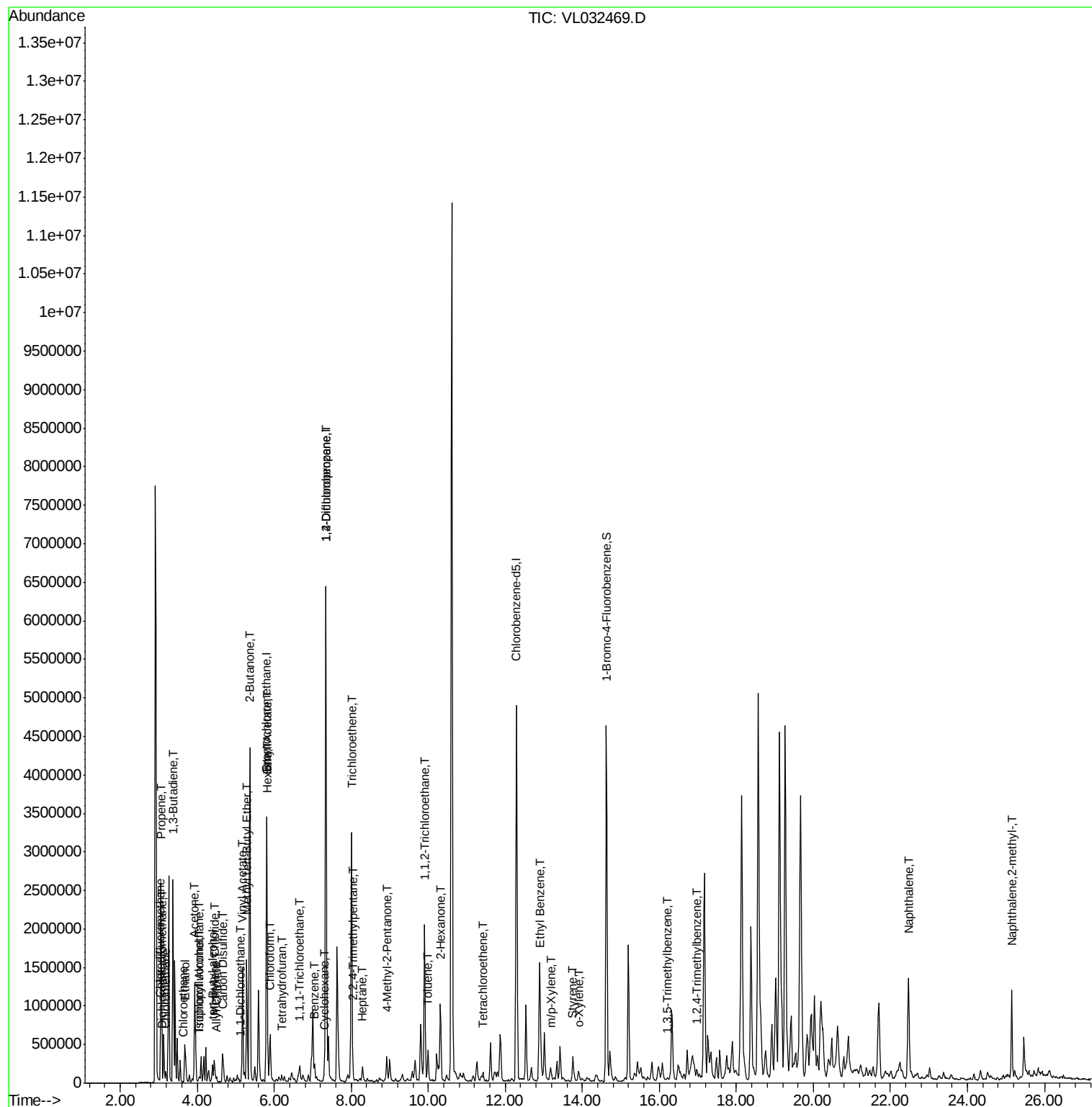
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Naphthalene,2-methyl-	25.15	142	580482	6.715	ppbv	99

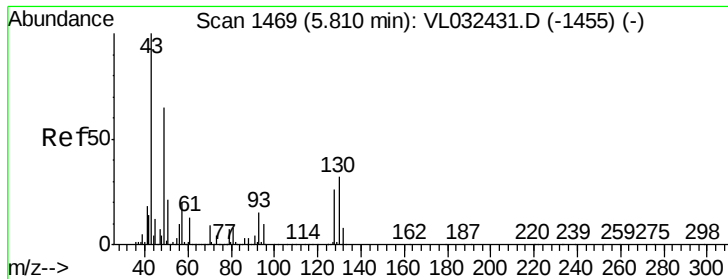
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 1467

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampleId :

VP-2

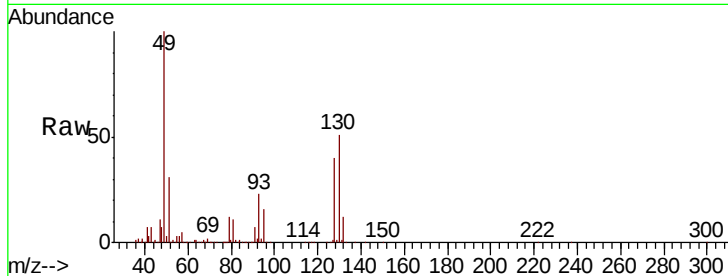
Tgt Ion: 49 Resp: 1620952

Ion Ratio Lower Upper

49 100

128 41.0 20.7 62.1

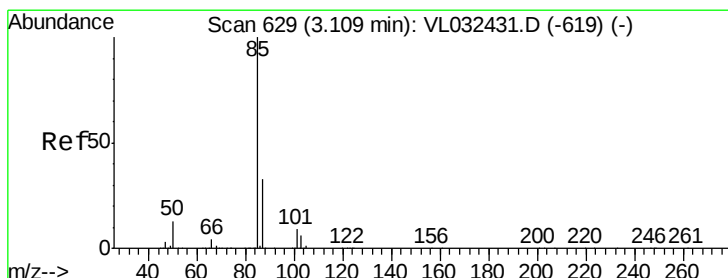
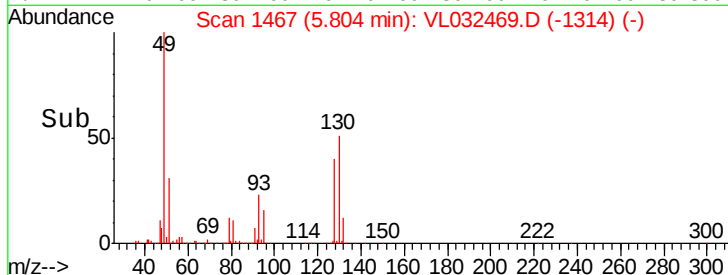
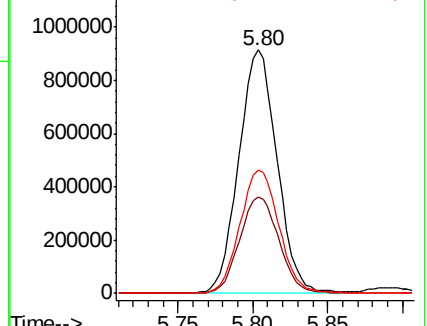
130 52.3 26.6 79.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.074 ppbv

RT: 3.11 min Scan# 628

Delta R.T. -0.00 min

Lab File: VL032469.D

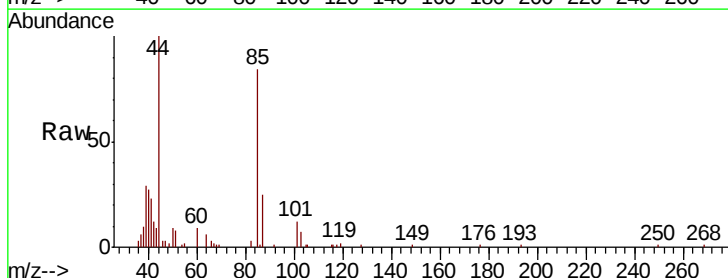
Acq: 5 Sep 2018 23:53

Tgt Ion: 85 Resp: 15380

Ion Ratio Lower Upper

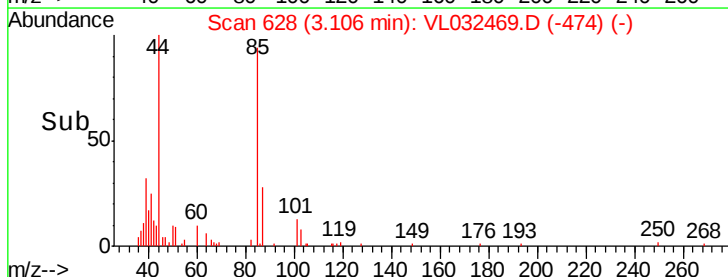
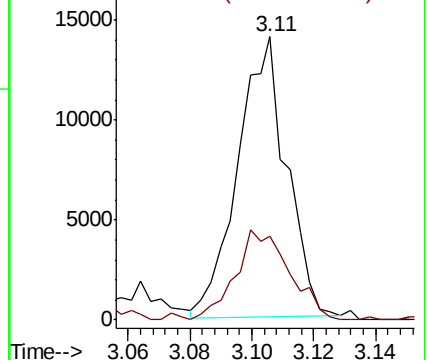
85 100

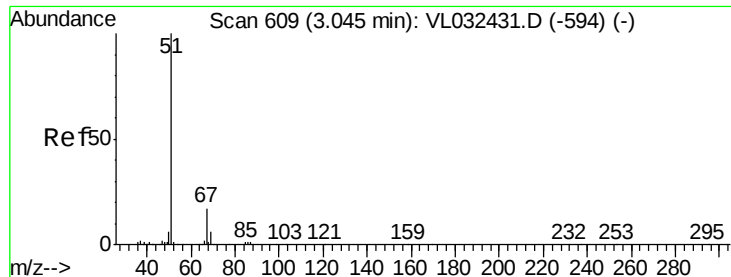
87 30.0 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.155 ppbv

RT: 3.04 min Scan# 607

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampleId :

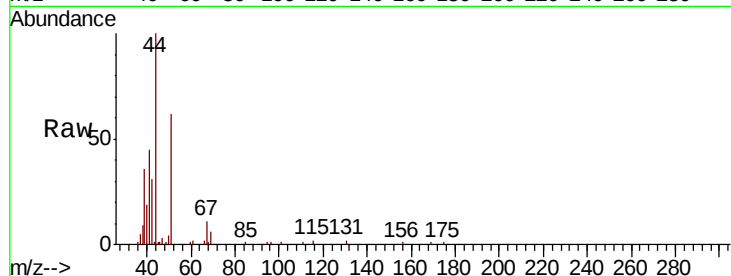
VP-2

Tgt Ion: 51 Resp: 22704

Ion Ratio Lower Upper

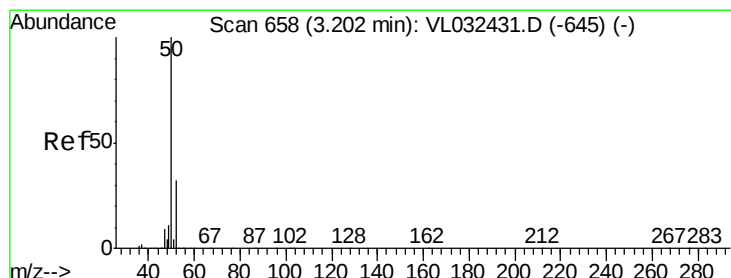
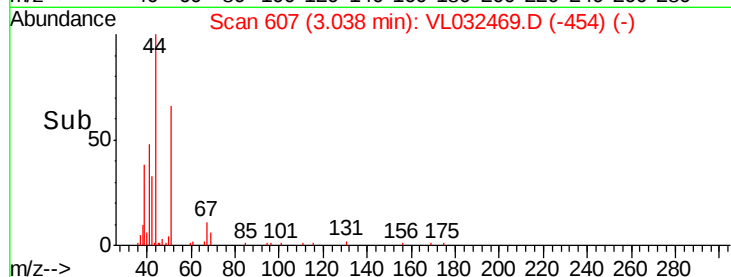
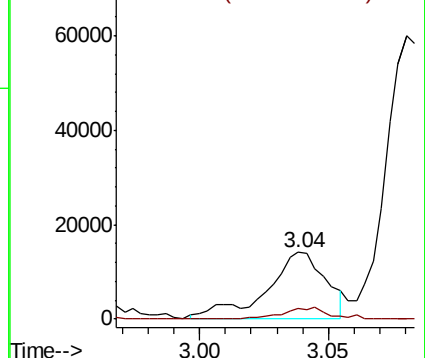
51 100

67 14.5 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.638 ppbv

RT: 3.20 min Scan# 657

Delta R.T. -0.00 min

Lab File: VL032469.D

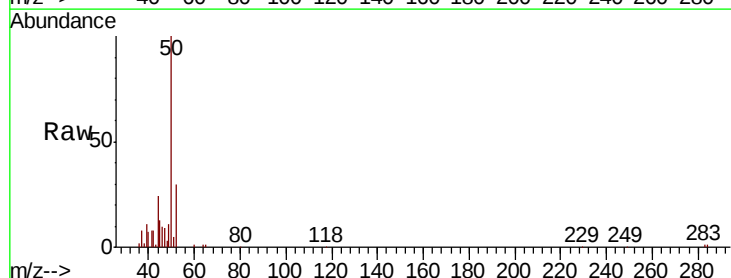
Acq: 5 Sep 2018 23:53

Tgt Ion: 50 Resp: 56653

Ion Ratio Lower Upper

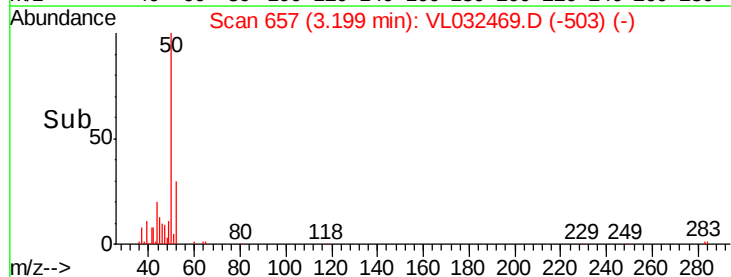
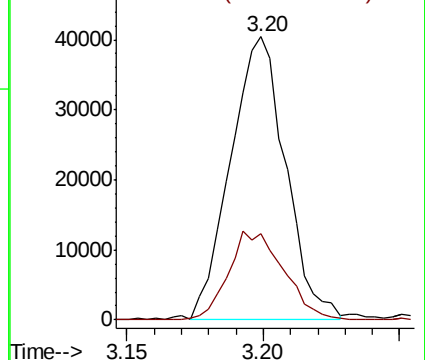
50 100

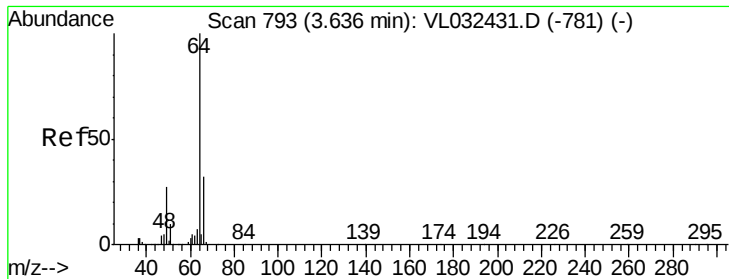
52 29.9 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.149 ppbv

RT: 3.63 min Scan# 792

Delta R.T. -0.00 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampleId :

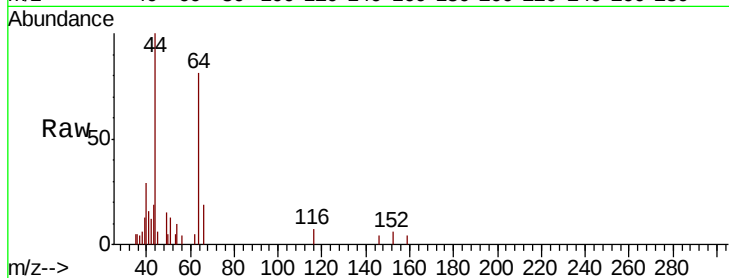
VP-2

Tgt Ion: 64 Resp: 4533

Ion Ratio Lower Upper

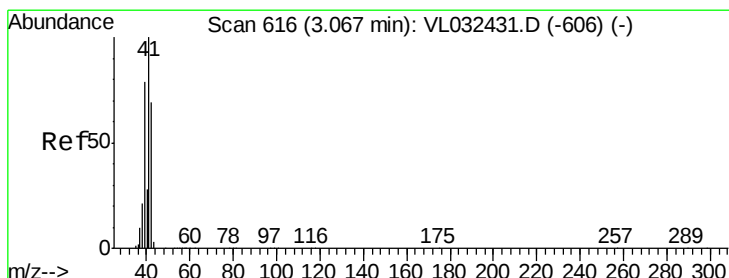
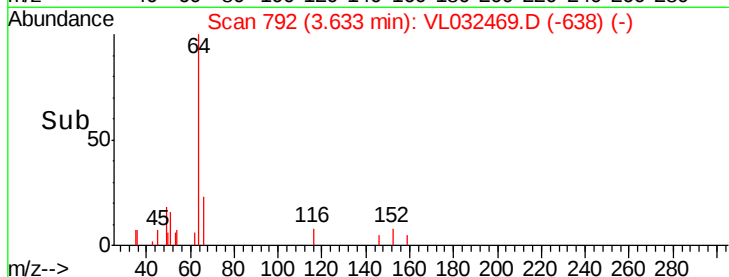
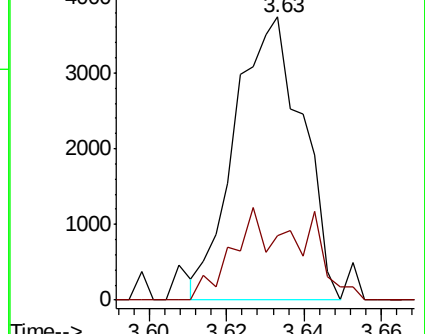
64 100

66 22.9 25.8 38.6#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 17.829 ppbv

RT: 3.06 min Scan# 614

Delta R.T. -0.01 min

Lab File: VL032469.D

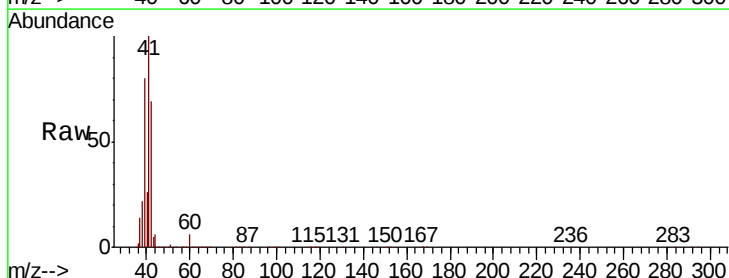
Acq: 5 Sep 2018 23:53

Tgt Ion: 41 Resp: 1055285

Ion Ratio Lower Upper

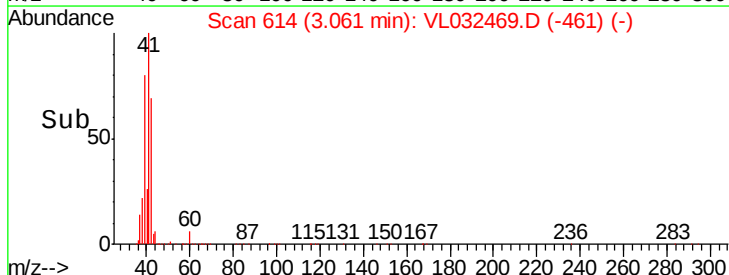
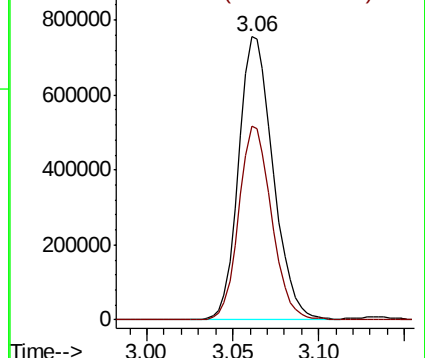
41 100

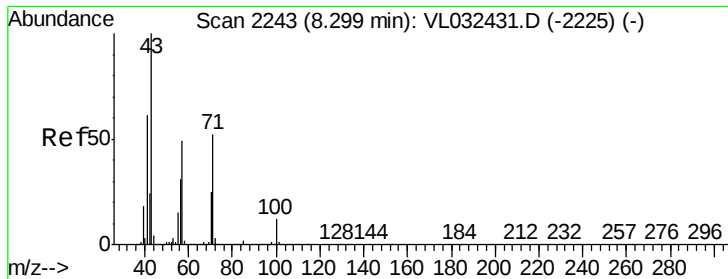
42 65.3 56.6 84.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.402 ppbv

RT: 8.29 min Scan# 2240

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampleId :

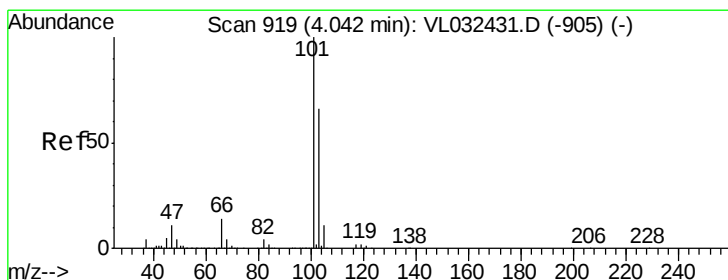
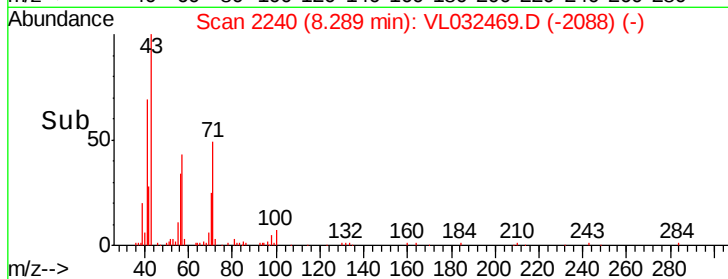
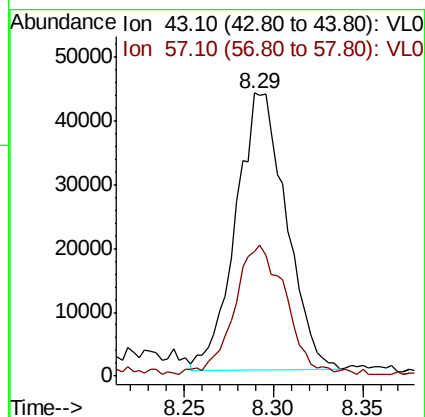
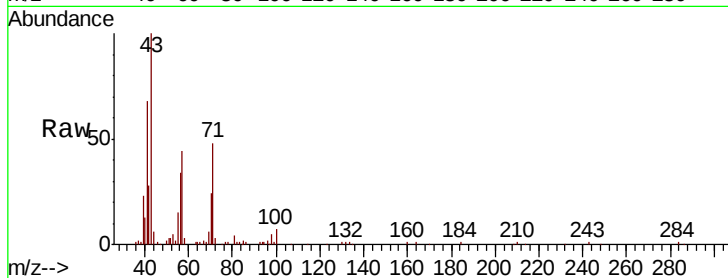
VP-2

Tgt Ion: 43 Resp: 85433

Ion Ratio Lower Upper

43 100

57 50.9 39.6 59.4



#11

Trichlorofluoromethane

Concen: 0.053 ppbv

RT: 4.04 min Scan# 917

Delta R.T. -0.01 min

Lab File: VL032469.D

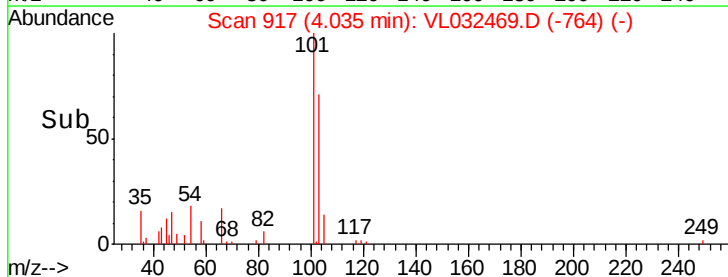
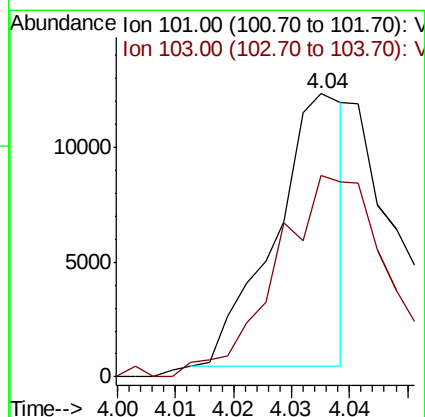
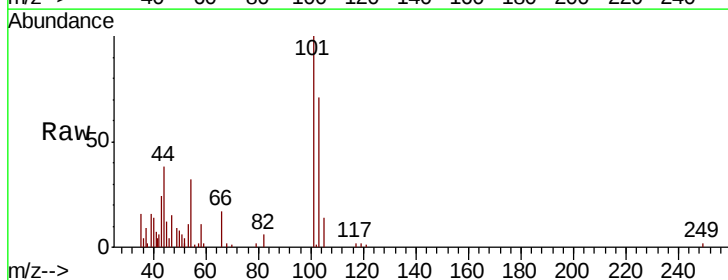
Acq: 5 Sep 2018 23:53

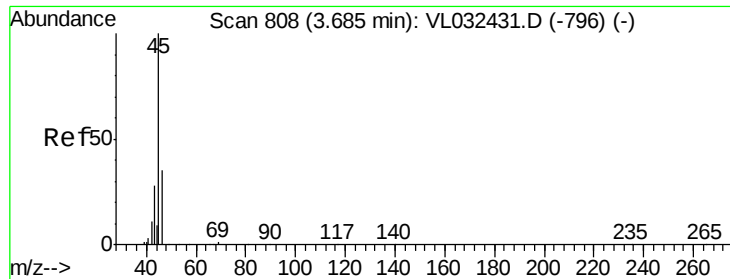
Tgt Ion: 101 Resp: 9881

Ion Ratio Lower Upper

101 100

103 68.7 52.8 79.2





#13

Ethanol

Concen: 27.748 ppbv

RT: 3.68 min Scan# 807

Delta R.T. -0.00 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampleId :

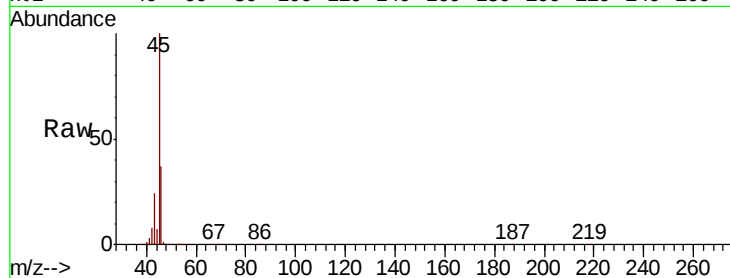
VP-2

Tgt Ion: 45 Resp: 511950

Ion Ratio Lower Upper

45 100

46 36.8 14.2 56.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.68

300000

250000

200000

150000

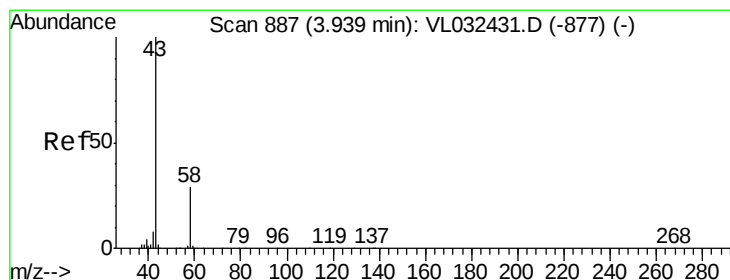
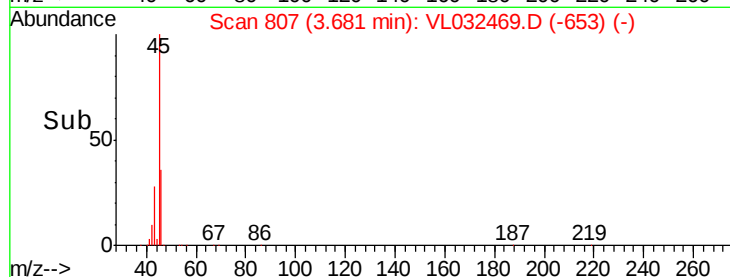
100000

50000

0

Time-->

3.60 3.65 3.70 3.75



#15

Acetone

Concen: 8.988 ppbv

RT: 3.93 min Scan# 884

Delta R.T. -0.01 min

Lab File: VL032469.D

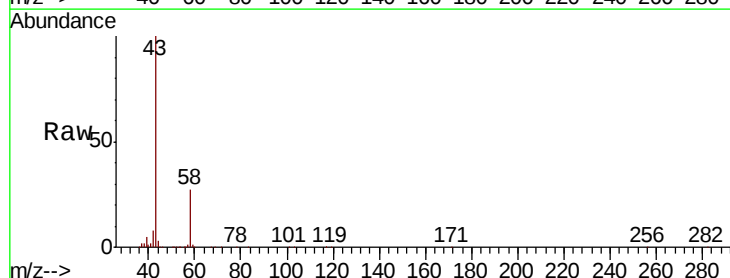
Acq: 5 Sep 2018 23:53

Tgt Ion: 43 Resp: 1311921

Ion Ratio Lower Upper

43 100

58 49.5 22.6 33.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

1000000

800000

600000

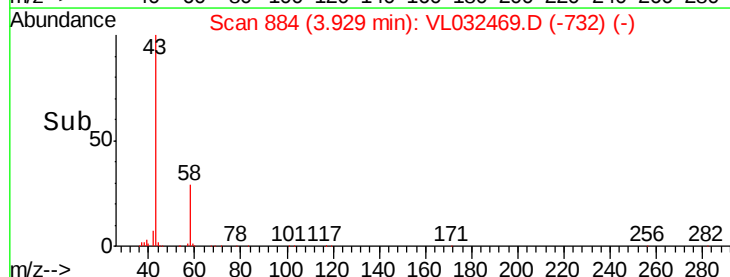
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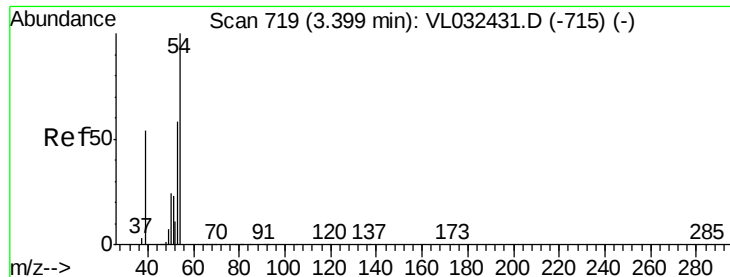
200000

0

Time-->

3.90 3.95 4.00

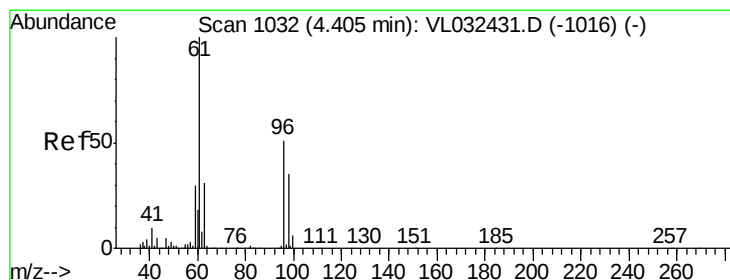
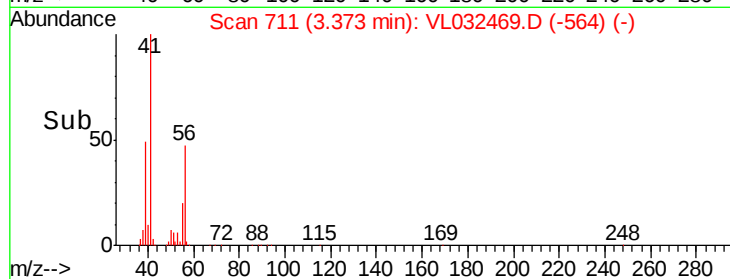
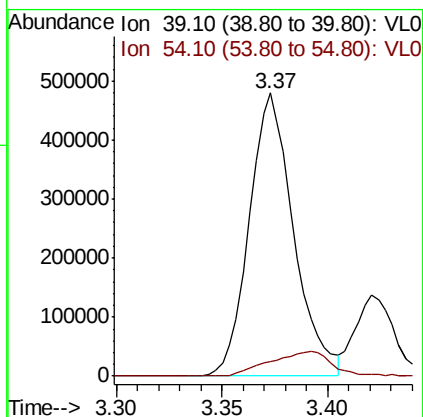
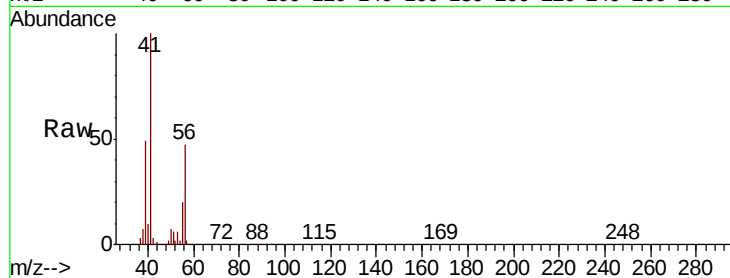




#16
 1,3-Butadiene
 Concen: 10.222 ppbv
 RT: 3.37 min Scan# 711
 Delta R.T. -0.03 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

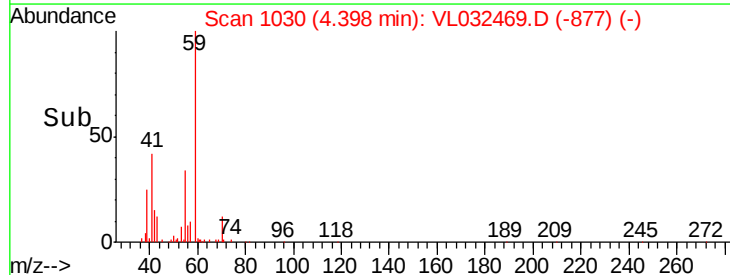
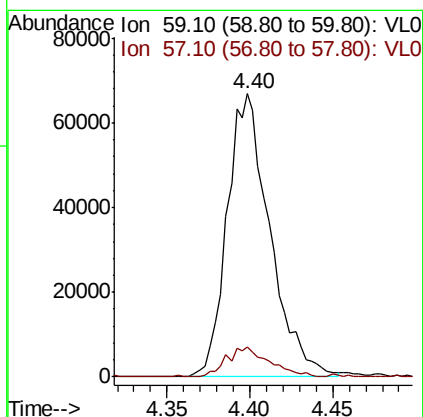
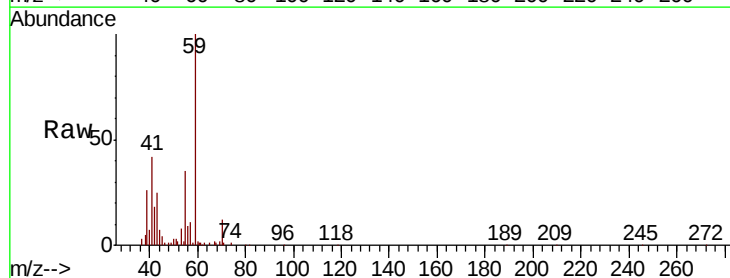
Instrument :
 MSVOA_L
 ClientSampleID :
 VP-2

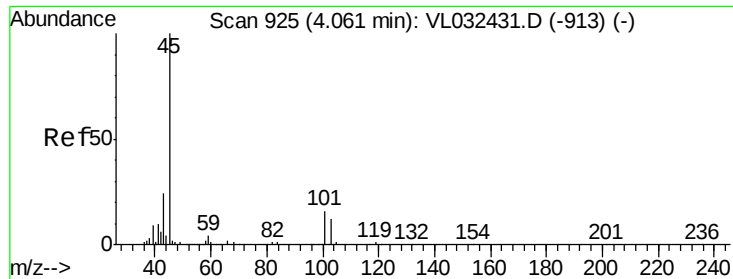
Tgt Ion: 39 Resp: 702149
 Ion Ratio Lower Upper
 39 100
 54 12.4 80.8 121.2#



#17
 tert-Butyl alcohol
 Concen: 5.325 ppbv
 RT: 4.40 min Scan# 1030
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Tgt Ion: 59 Resp: 119608
 Ion Ratio Lower Upper
 59 100
 57 11.1 0.0 0.0#





#19

Isopropyl Alcohol

Concen: 0.477 ppbv

RT: 4.06 min Scan# 926

Delta R.T. 0.00 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampleId :

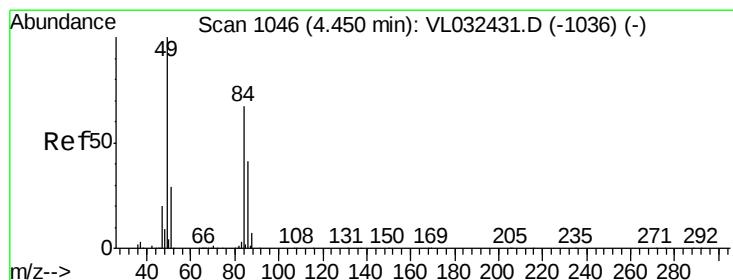
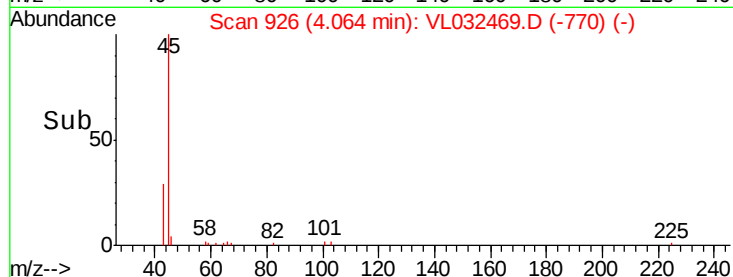
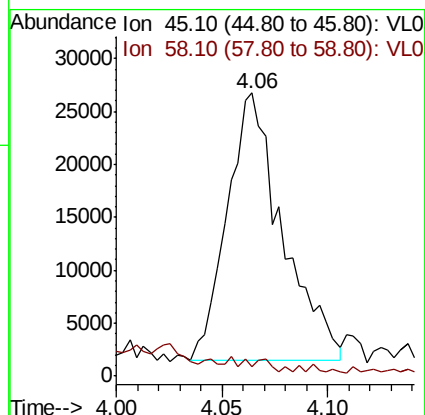
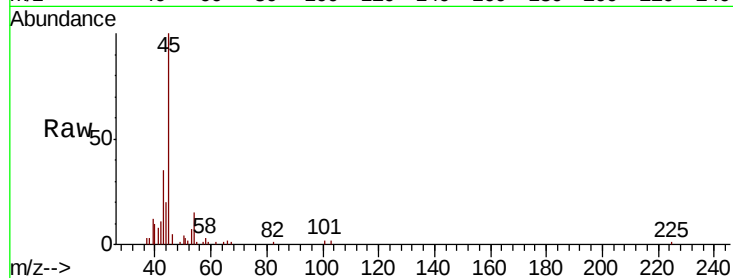
VP-2

Tgt Ion: 45 Resp: 45659

Ion Ratio Lower Upper

45 100

58 1430.9 2.0 3.0#



#20

Methylene Chloride

Concen: 1.544 ppbv

RT: 4.45 min Scan# 1045

Delta R.T. -0.00 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Tgt Ion: 84 Resp: 85949

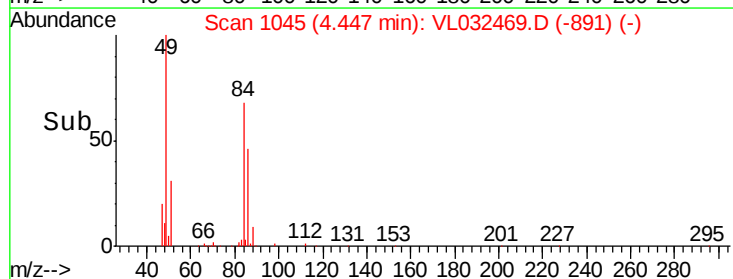
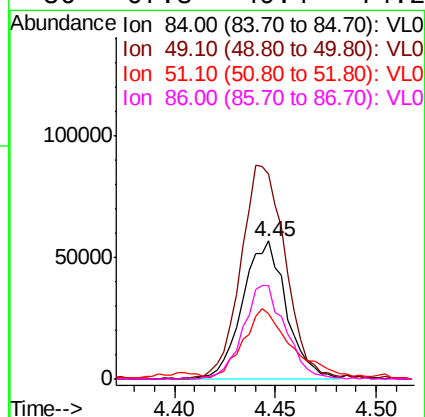
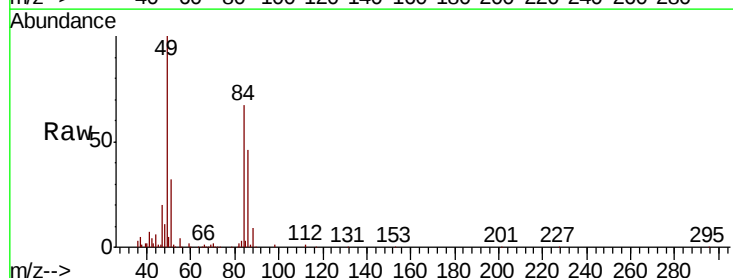
Ion Ratio Lower Upper

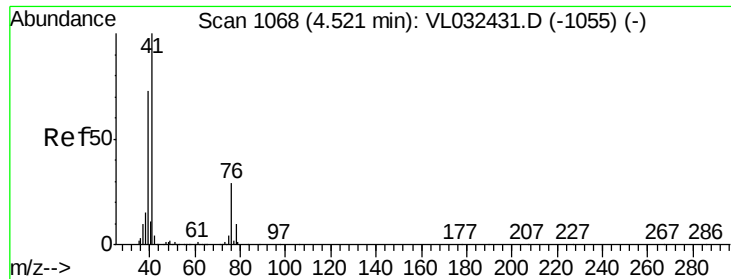
84 100

49 147.2 119.1 178.7

51 43.6 35.2 52.8

86 67.3 49.4 74.2

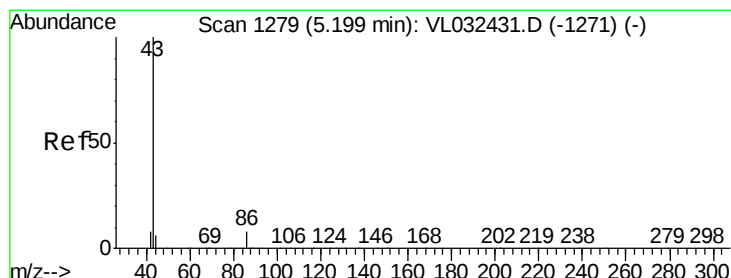
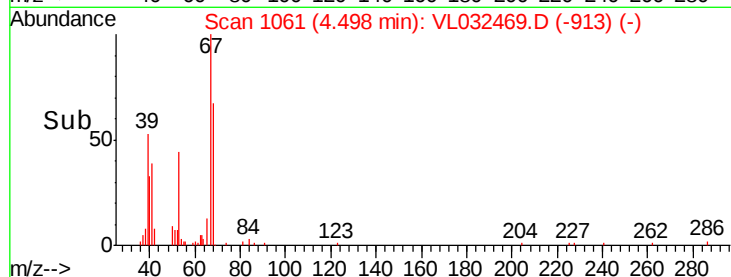
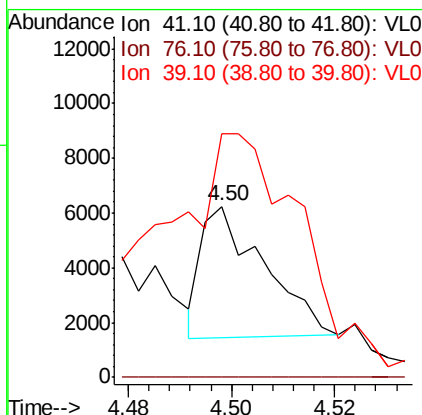
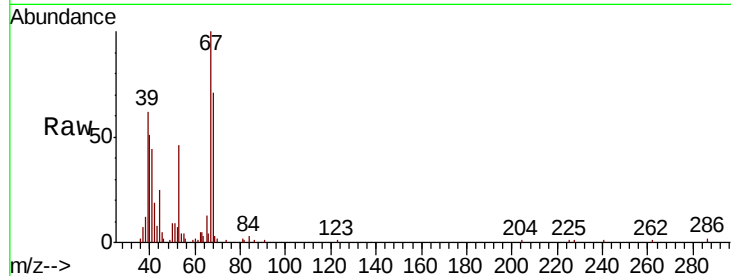




#21
 Allyl Chloride
 Concen: 0.042 ppbv
 RT: 4.50 min Scan# 1061
 Delta R.T. -0.02 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

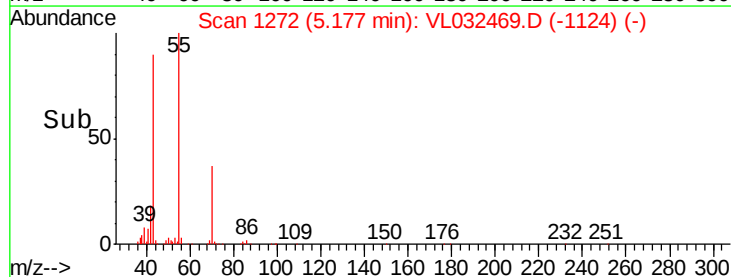
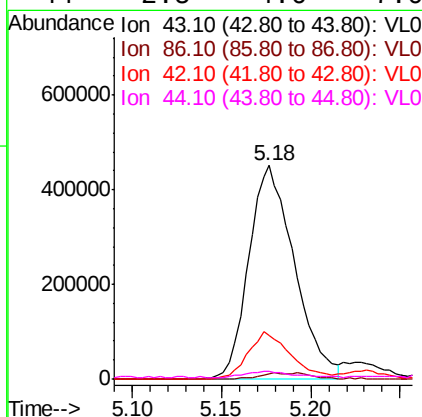
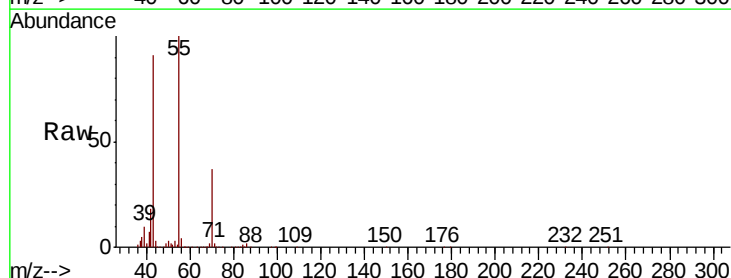
Instrument :
 MSVOA_L
 ClientSampled :
 VP-2

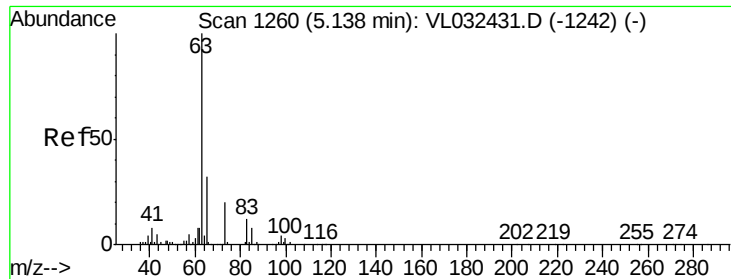
Tgt Ion: 41 Resp: 4056
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.6 35.4#
 39 308.2 57.7 86.5#



#23
 Vinyl Acetate
 Concen: 3.320 ppbv
 RT: 5.18 min Scan# 1272
 Delta R.T. -0.02 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Tgt Ion: 43 Resp: 803374
 Ion Ratio Lower Upper
 43 100
 86 2.1 5.9 8.9#
 42 20.1 6.9 10.3#
 44 2.5 4.6 7.0#





#24

1,1-Dichloroethane

Concen: 0.045 ppbv

RT: 5.13 min Scan# 1257

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

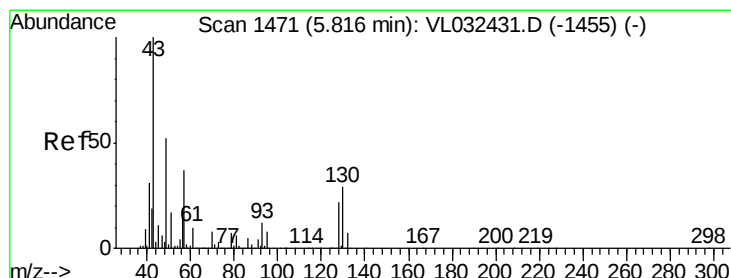
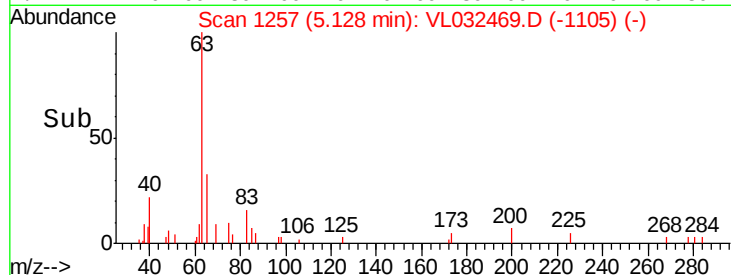
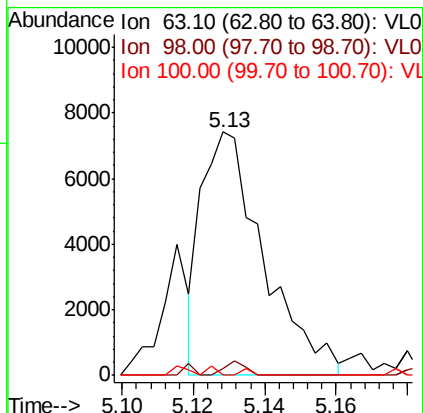
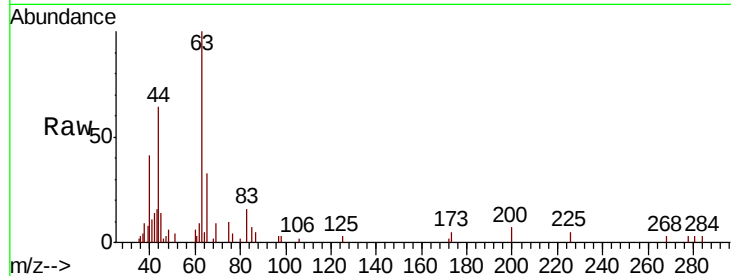
Instrument :

MSVOA_L

ClientSampleID :

VP-2

Tgt Ion:	63	Resp:	8970
Ion	Ratio	Lower	Upper
63	100		
98	2.8	2.1	6.5
100	0.0	1.5	4.4#



#25

Ethyl Acetate

Concen: 0.609 ppbv

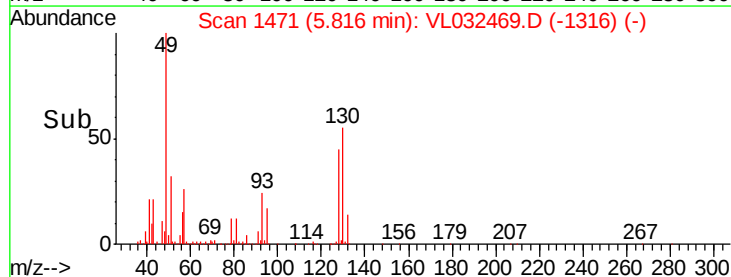
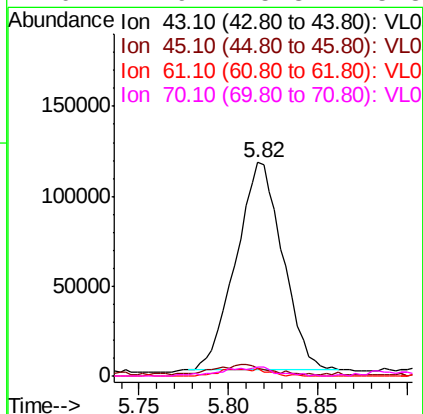
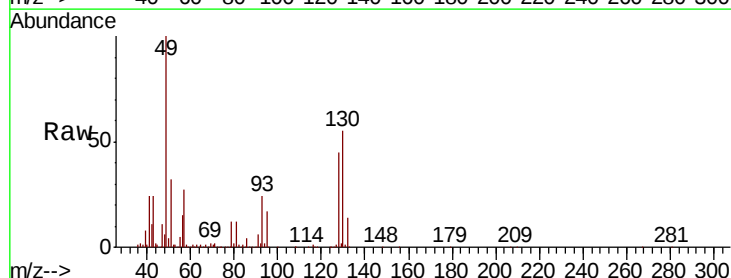
RT: 5.82 min Scan# 1471

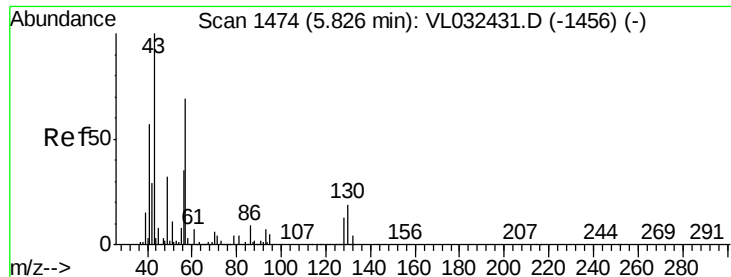
Delta R.T. -0.00 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Tgt Ion:	43	Resp:	210031
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	3.8	7.6	11.4#
70	4.9	5.8	8.8#





#26

Hexane

Concen: 1.509 ppbv

RT: 5.82 min Scan# 1472

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampled :

VP-2

Tgt Ion: 57 Resp: 232935

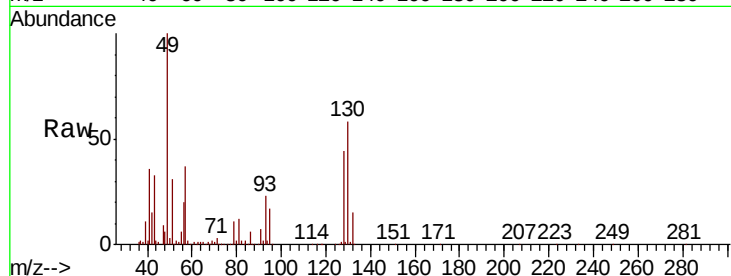
Ion Ratio Lower Upper

57 100

41 107.5 69.0 103.4#

43 94.5 172.1 258.1#

56 61.2 42.2 63.2

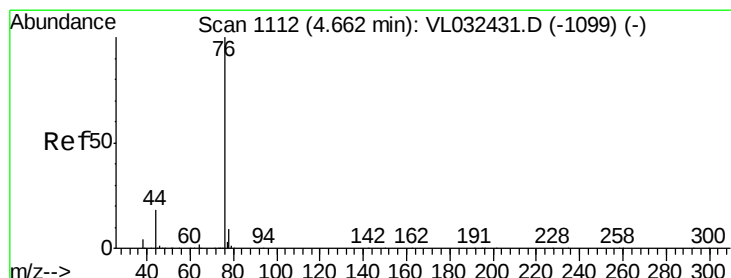
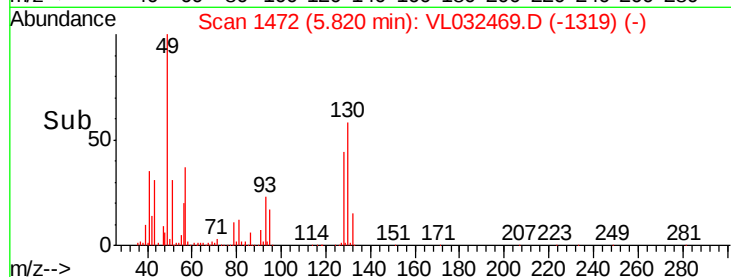
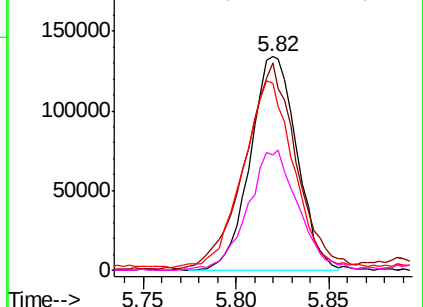


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 2.692 ppbv

RT: 4.66 min Scan# 1110

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

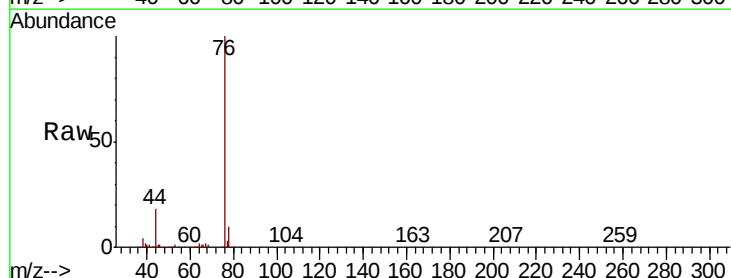
Tgt Ion: 76 Resp: 383608

Ion Ratio Lower Upper

76 100

44 19.0 14.0 21.0

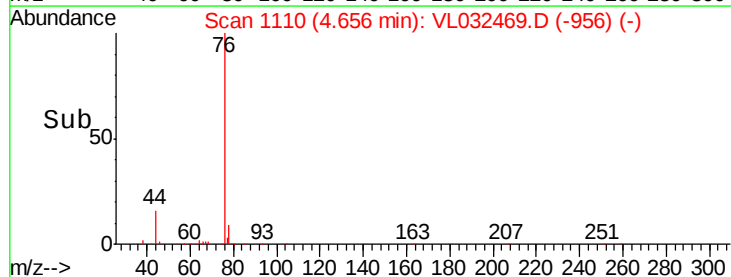
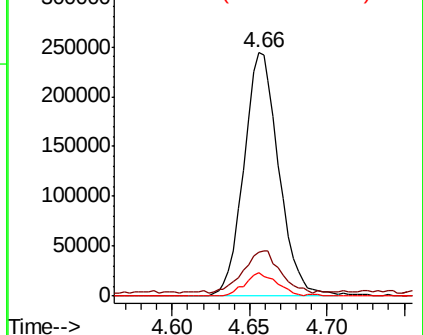
78 9.1 7.5 11.3

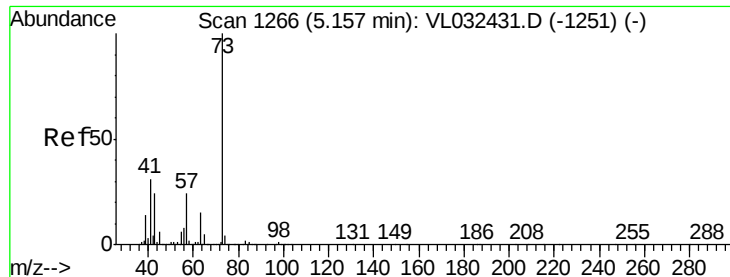


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



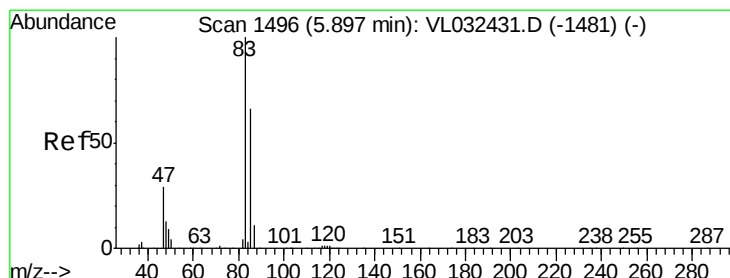
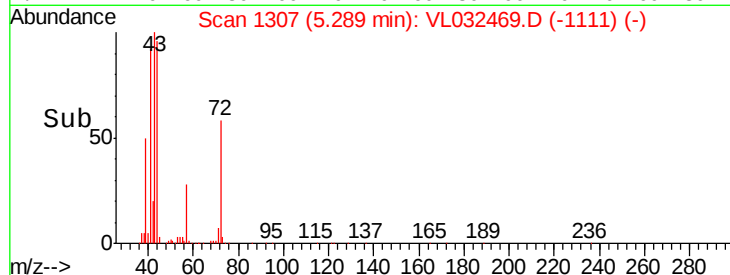
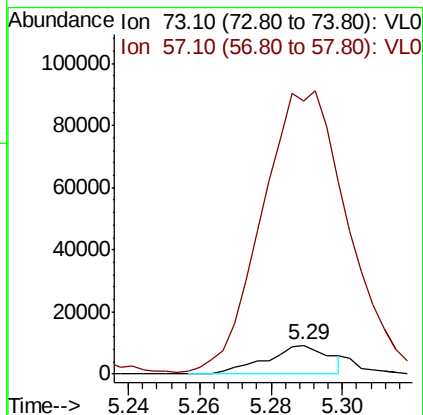
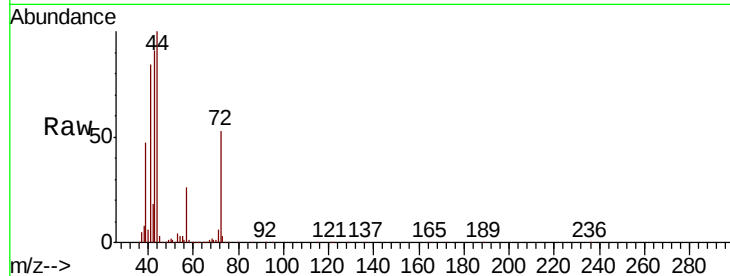


#28

Methyl tert-Butyl Ether
 Concen: 0.060 ppbv
 RT: 5.29 min Scan# 1307
 Delta R.T. 0.13 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Instrument :
 MSVOA_L
 ClientSampled :
 VP-2

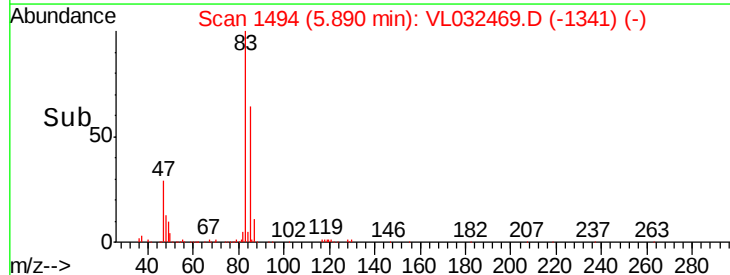
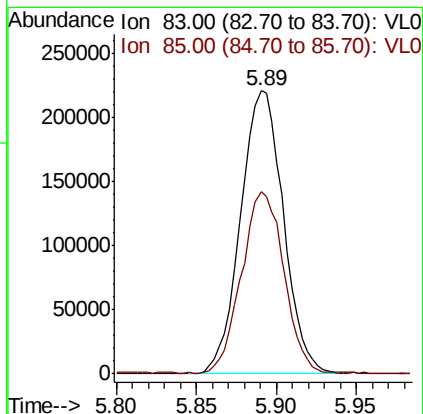
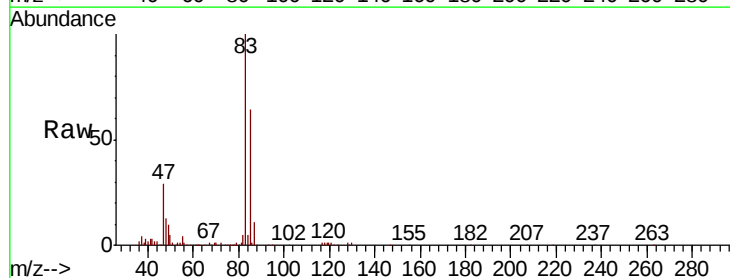
Tgt Ion: 73 Resp: 11407
 Ion Ratio Lower Upper
 73 100
 57 1334.0 19.3 28.9#

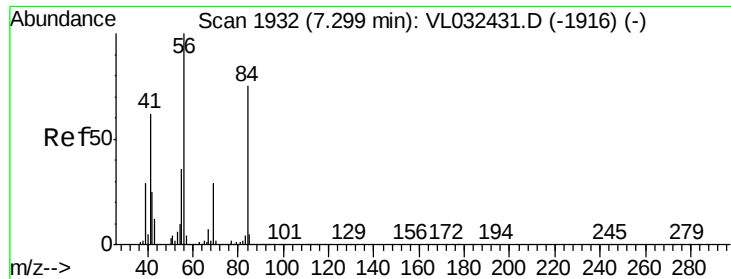


#29

Chloroform
 Concen: 1.712 ppbv
 RT: 5.89 min Scan# 1494
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Tgt Ion: 83 Resp: 402824
 Ion Ratio Lower Upper
 83 100
 85 64.1 52.5 78.7

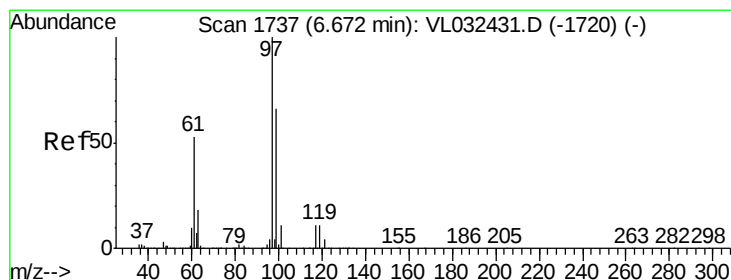
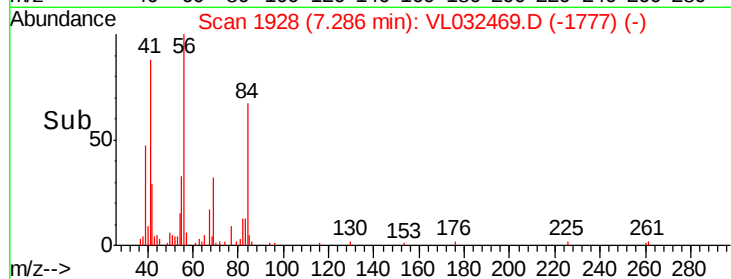
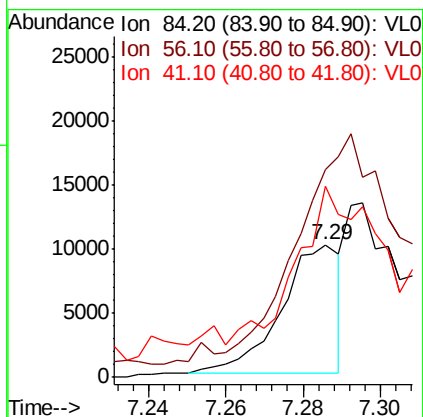
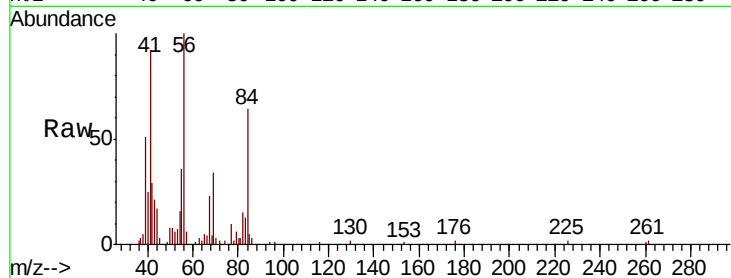




#30
Cyclohexane
Concen: 0.094 ppbv
RT: 7.29 min Scan# 1928
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

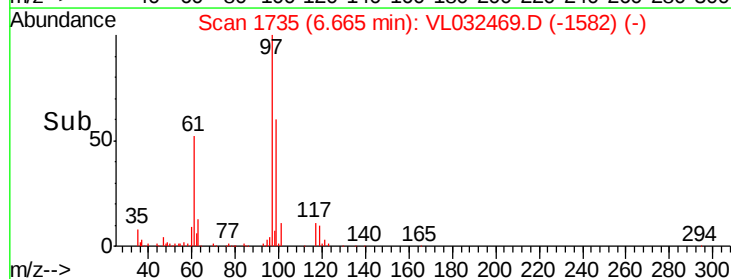
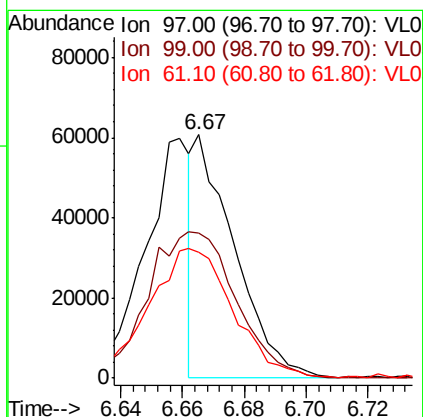
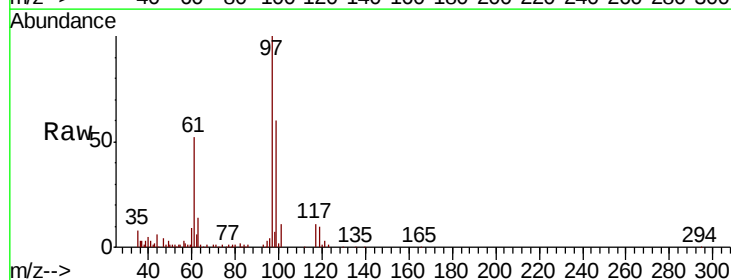
Instrument :
MSVOA_L
ClientSampleId :
VP-2

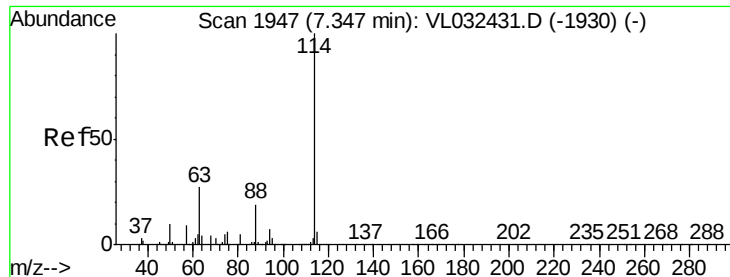
Tgt Ion: 84 Resp: 10580
Ion Ratio Lower Upper
84 100
56 0.0 113.5 170.3#
41 237.0 68.1 102.1#



#32
1,1,1-Trichloroethane
Concen: 0.247 ppbv
RT: 6.67 min Scan# 1735
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Tgt Ion: 97 Resp: 54203
Ion Ratio Lower Upper
97 100
99 134.8 52.1 78.1#
61 115.0 42.5 63.7#

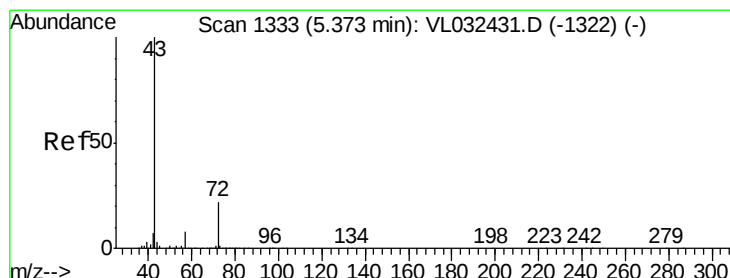
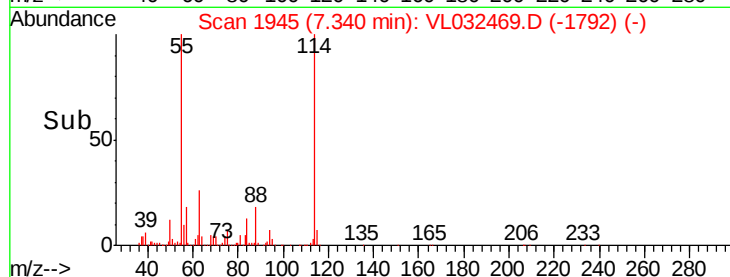
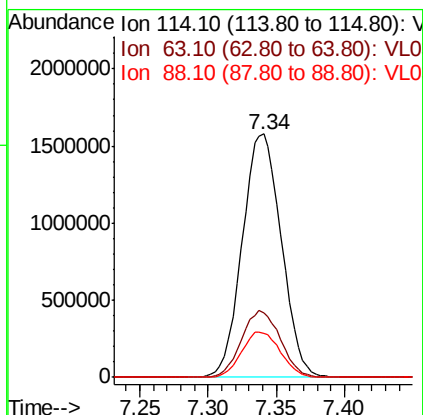
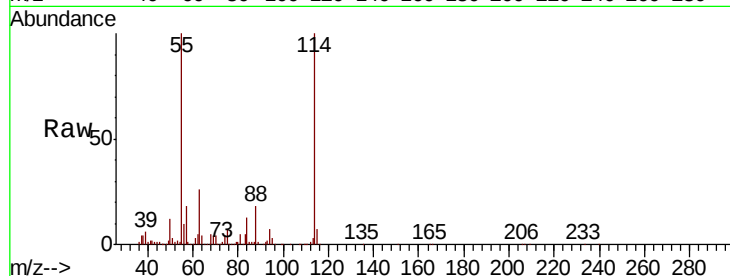




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.34 min Scan# 1945
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

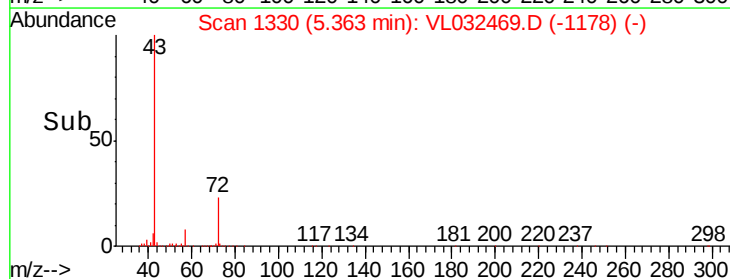
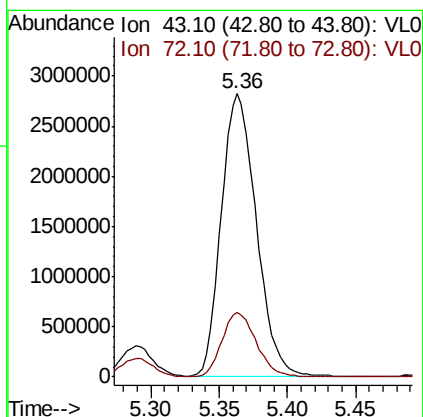
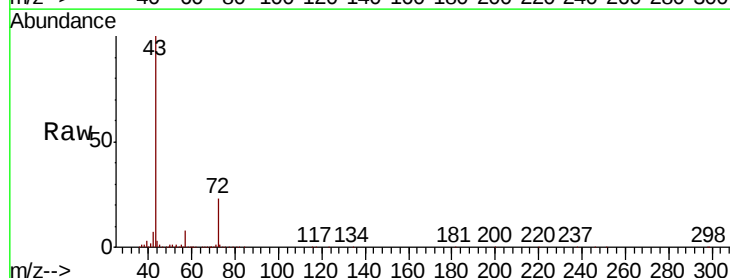
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-2

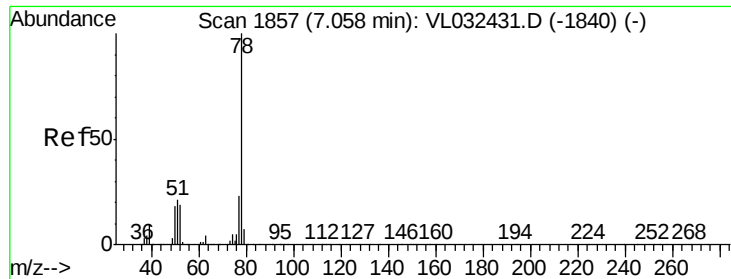
Tgt Ion: 114 Resp: 3134295
 Ion Ratio Lower Upper
 114 100
 63 27.2 22.2 33.4
 88 18.6 15.0 22.4



#34
 2-Butanone
 Concen: 24.069 ppbv
 RT: 5.36 min Scan# 1330
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Tgt Ion: 43 Resp: 5010966
 Ion Ratio Lower Upper
 43 100
 72 22.4 17.8 26.6

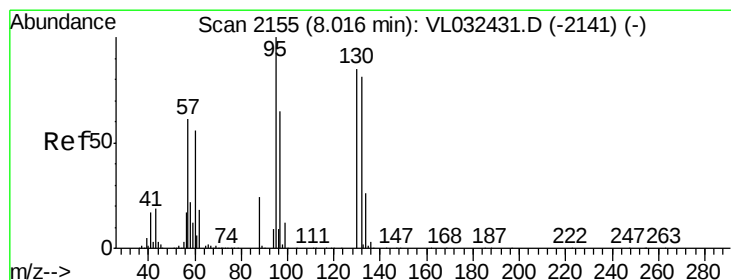
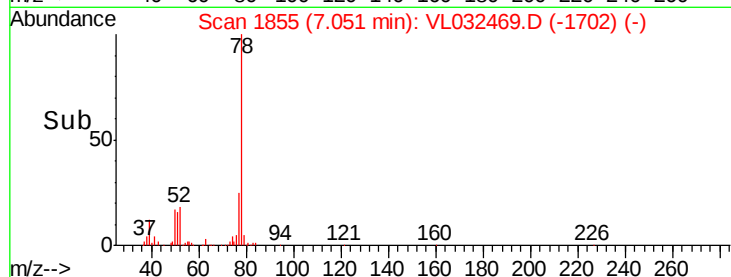
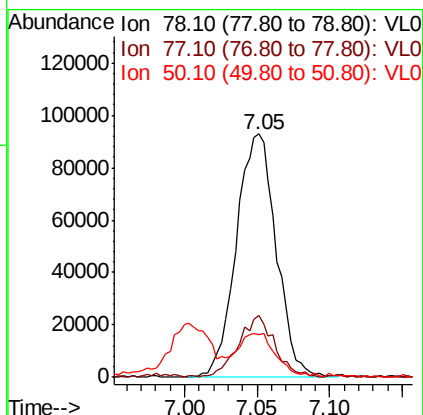
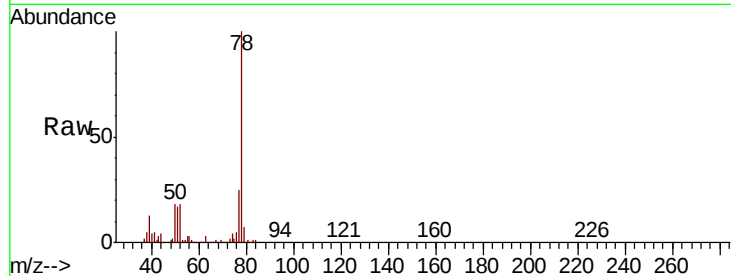




#36
Benzene
Concen: 0.667 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

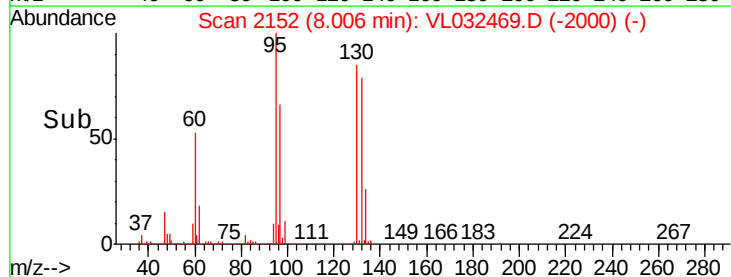
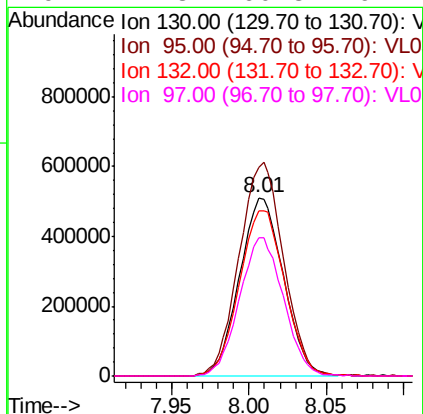
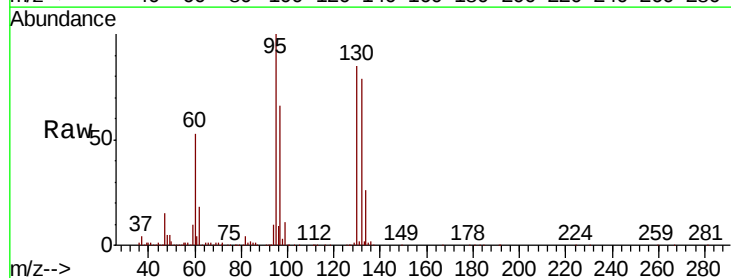
Instrument :
MSVOA_L
ClientSampleId :
VP-2

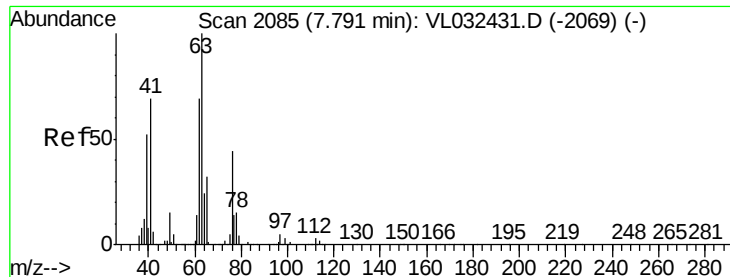
Tgt Ion: 78 Resp: 177825
Ion Ratio Lower Upper
78 100
77 24.4 18.4 27.6
50 17.0 14.4 21.6



#38
Trichloroethene
Concen: 9.951 ppbv
RT: 8.01 min Scan# 2152
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Tgt Ion: 130 Resp: 1008274
Ion Ratio Lower Upper
130 100
95 117.2 94.2 141.4
132 92.9 76.2 114.4
97 77.3 60.8 91.2





#39

1,2-Dichloropropane

Concen: 7.410 ppbv

RT: 7.34 min Scan# 1944

Delta R.T. -0.45 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampled :

VP-2

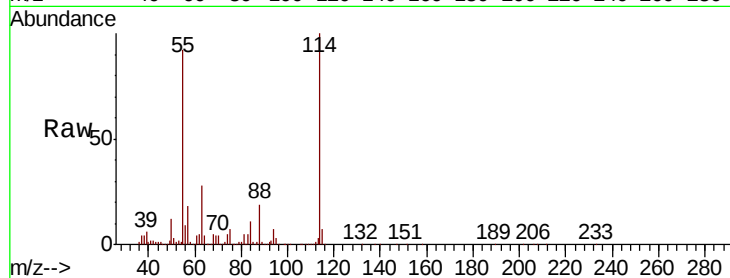
Tgt Ion: 63 Resp: 845621

Ion Ratio Lower Upper

63 100

41 4.4 55.4 83.0#

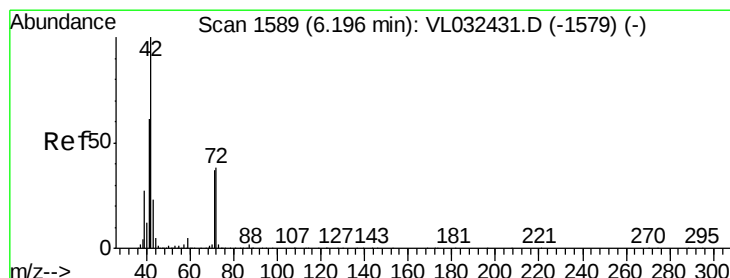
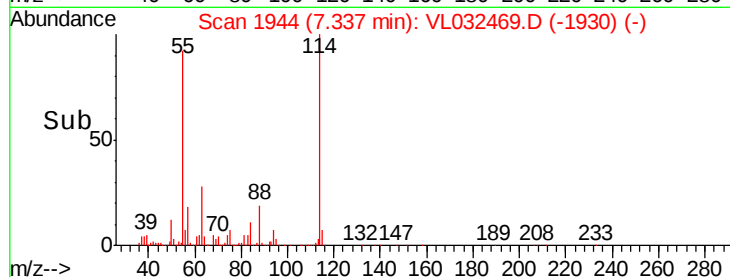
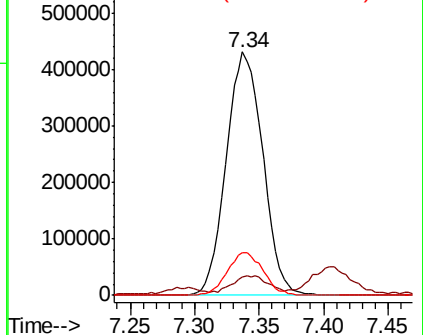
62 17.4 55.4 83.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.376 ppbv

RT: 6.20 min Scan# 1591

Delta R.T. 0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

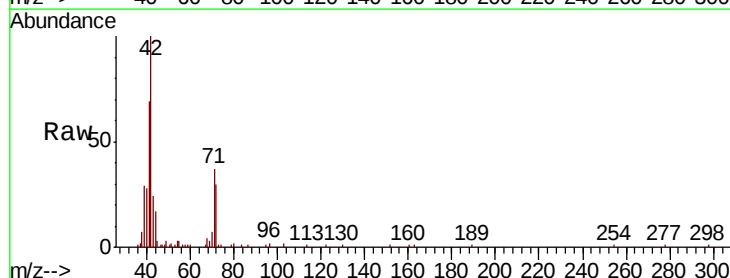
Tgt Ion: 42 Resp: 42665

Ion Ratio Lower Upper

42 100

72 43.4 29.5 44.3

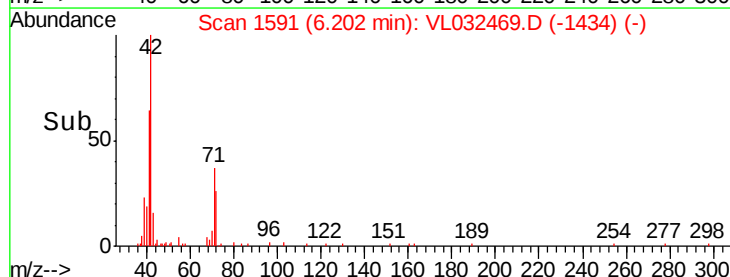
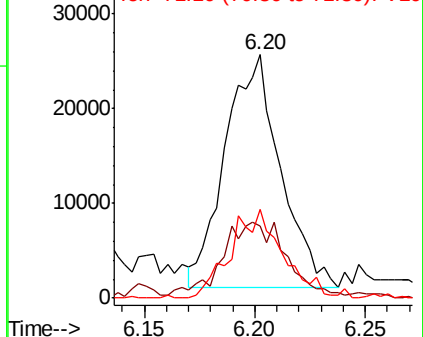
71 37.0 28.3 42.5

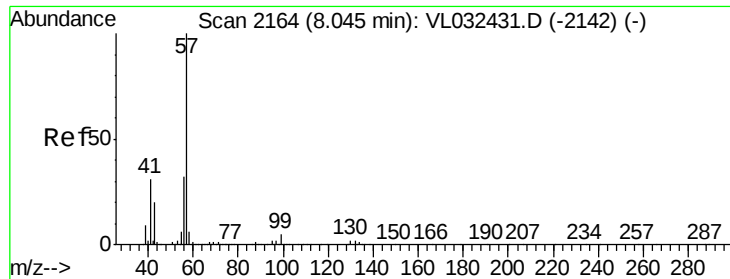


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.031 ppbv

RT: 8.04 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampleId :

VP-2

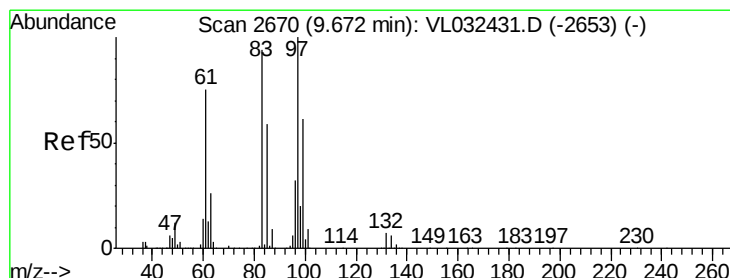
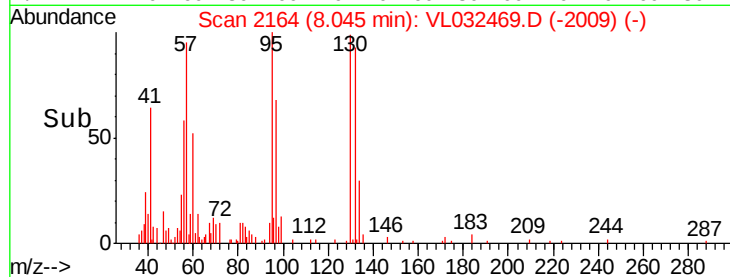
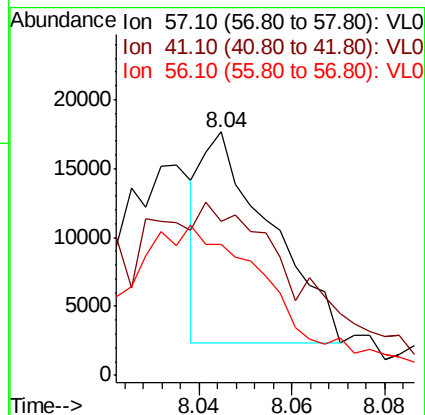
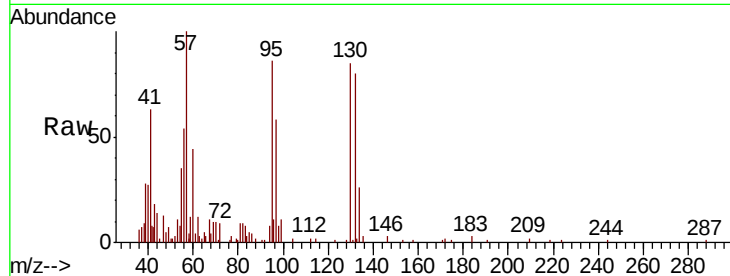
Tgt Ion: 57 Resp: 15739

Ion Ratio Lower Upper

57 100

41 162.2 24.4 36.6#

56 158.6 25.7 38.5#



#47

1,1,2-Trichloroethane

Concen: 0.534 ppbv

RT: 9.90 min Scan# 2742

Delta R.T. 0.23 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Tgt Ion: 97 Resp: 64769

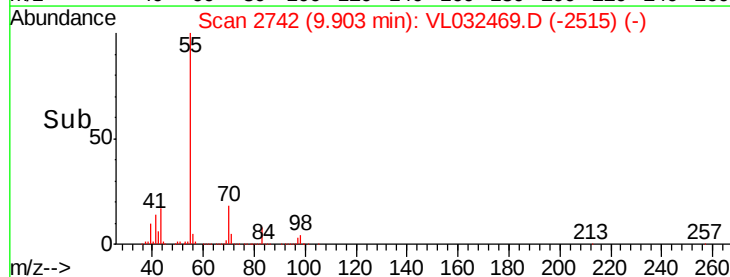
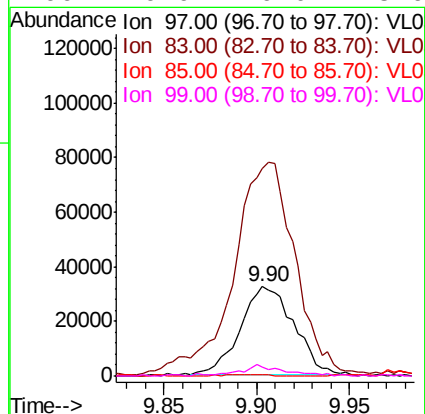
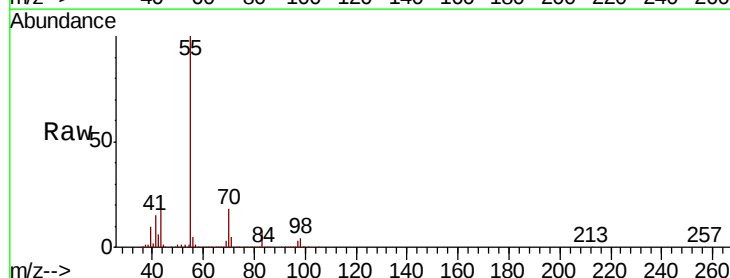
Ion Ratio Lower Upper

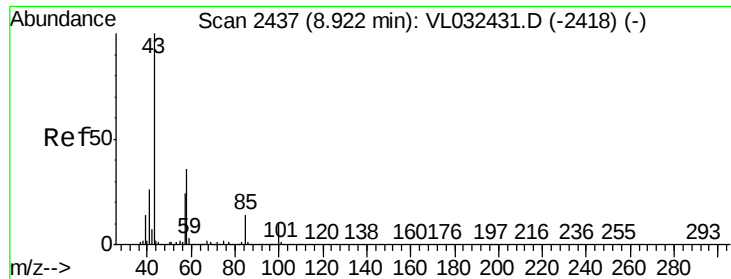
97 100

83 229.4 75.0 112.4#

85 1.4 47.5 71.3#

99 9.9 49.0 73.6#

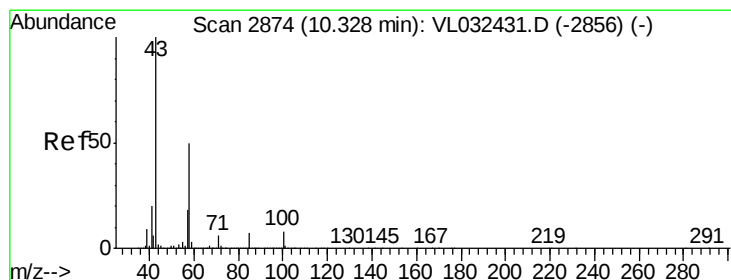
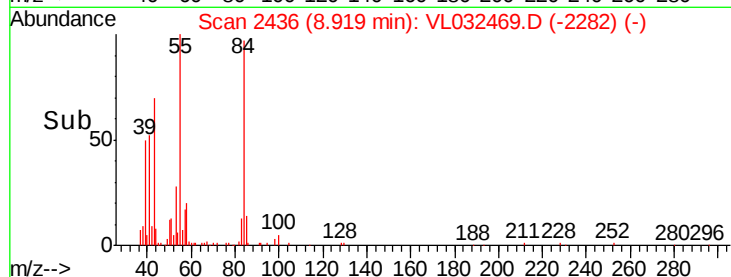
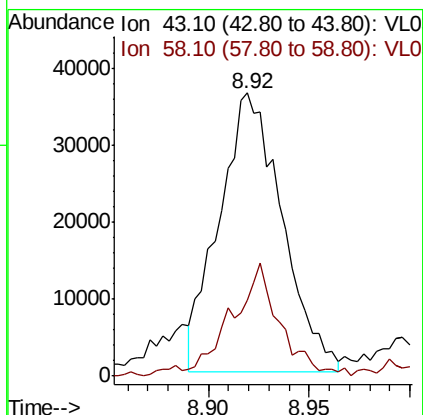
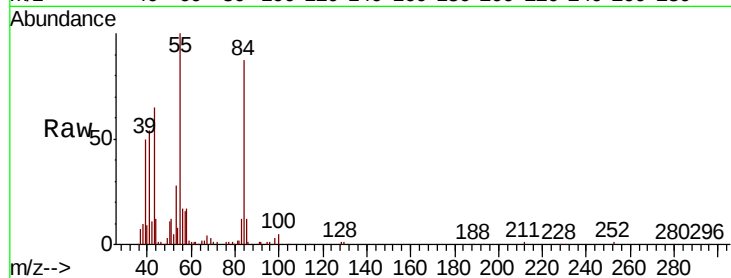




#50
 4-Methyl-2-Pentanone
 Concen: 0.252 ppbv
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

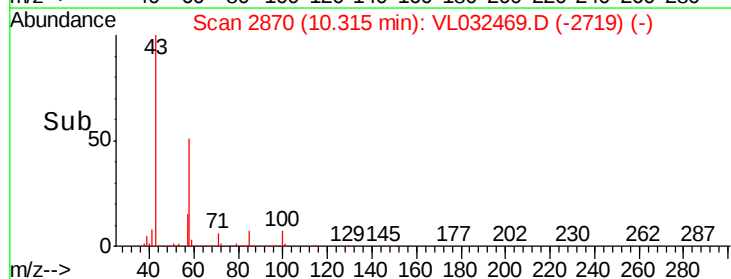
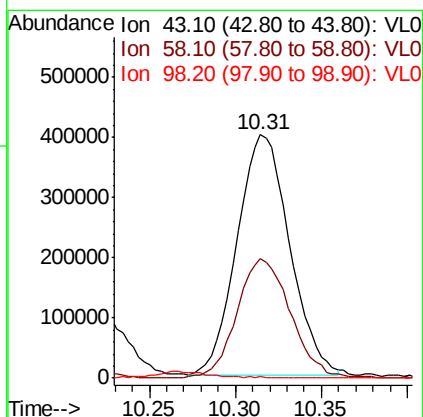
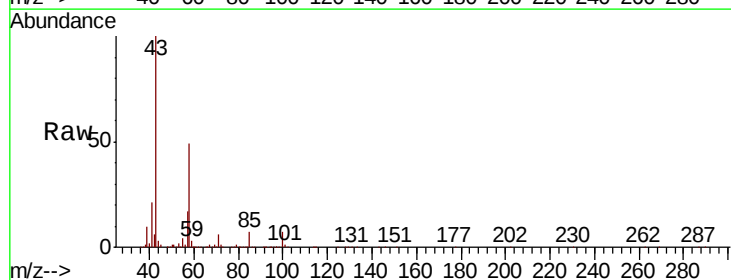
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-2

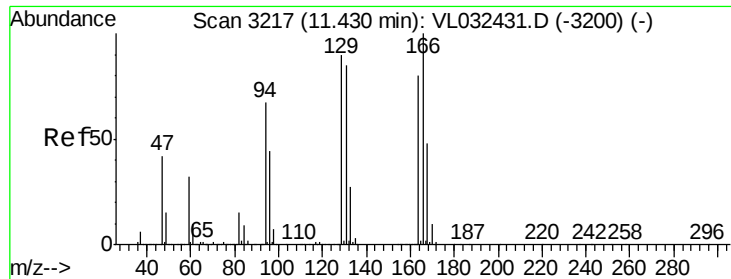
Tgt Ion: 43 Resp: 78941
 Ion Ratio Lower Upper
 43 100
 58 31.8 29.0 43.4



#51
 2-Hexanone
 Concen: 4.189 ppbv
 RT: 10.31 min Scan# 2870
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Tgt Ion: 43 Resp: 846263
 Ion Ratio Lower Upper
 43 100
 58 50.6 39.2 58.8
 98 3.4 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.109 ppbv

RT: 11.43 min Scan# 3217

Delta R.T. -0.00 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampleId :

VP-2

Tgt Ion:164 Resp: 8997

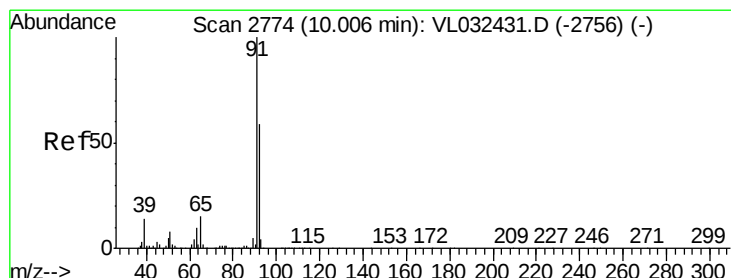
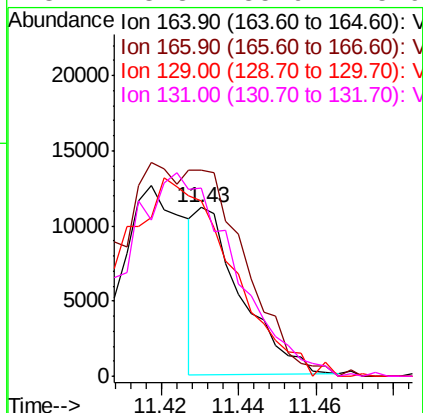
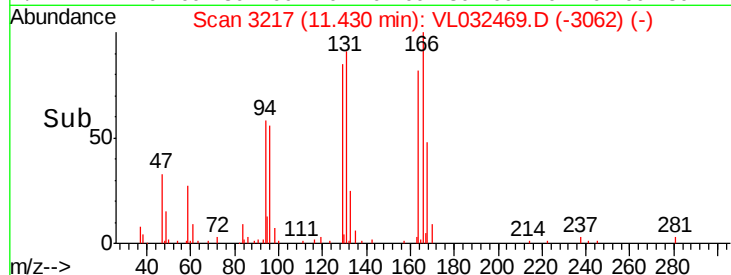
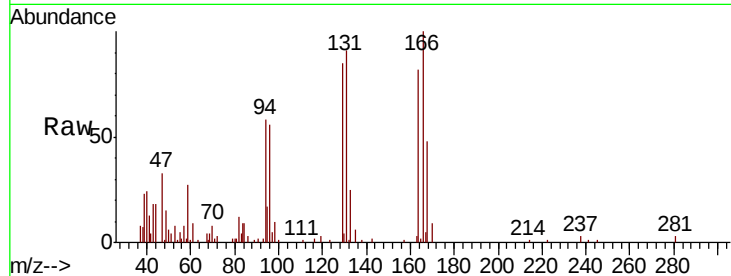
Ion Ratio Lower Upper

164 100

166 124.5 100.6 150.8

129 105.7 89.9 134.9

131 113.3 85.9 128.9



#53

Toluene

Concen: 1.077 ppbv

RT: 9.99 min Scan# 2770

Delta R.T. -0.01 min

Lab File: VL032469.D

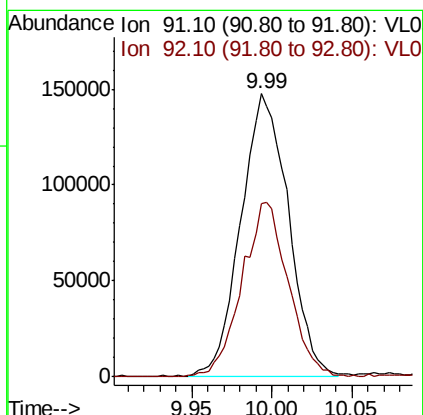
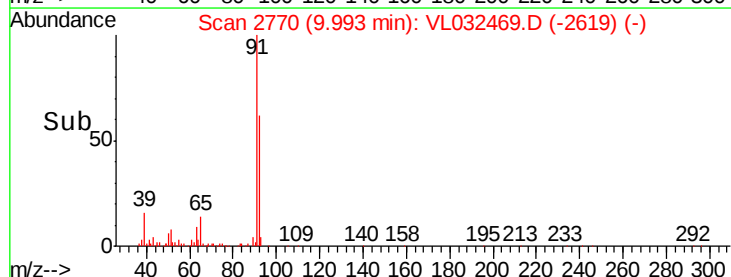
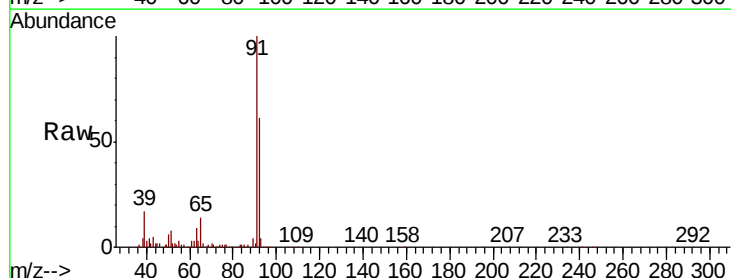
Acq: 5 Sep 2018 23:53

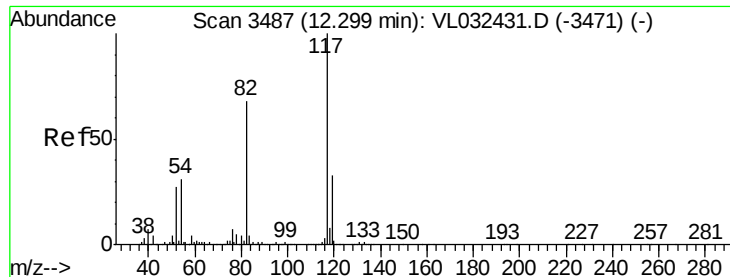
Tgt Ion: 91 Resp: 300175

Ion Ratio Lower Upper

91 100

92 60.0 48.1 72.1

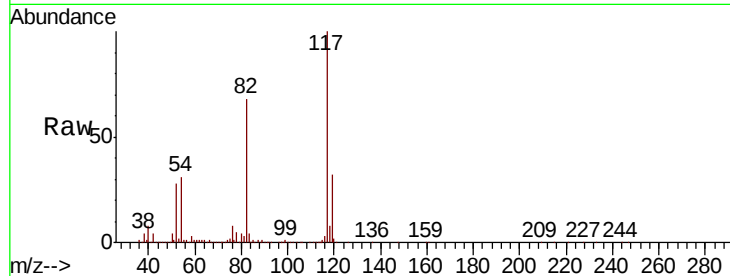




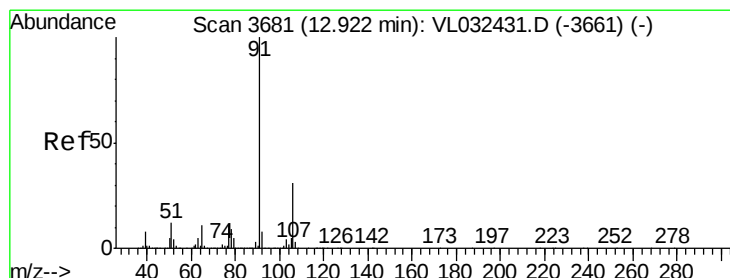
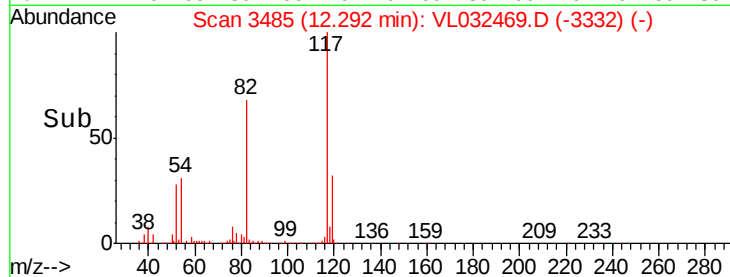
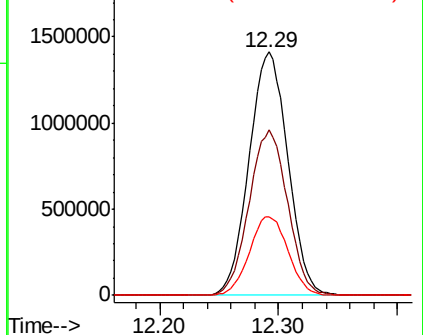
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3485
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Instrument :
MSVOA_L
ClientSampleId :
VP-2

Tgt Ion:117 Resp: 3187859
Ion Ratio Lower Upper
117 100
82 68.1 53.0 79.6
119 32.4 45.9 68.9#

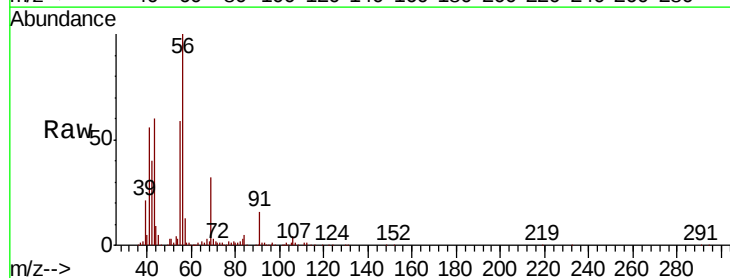


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

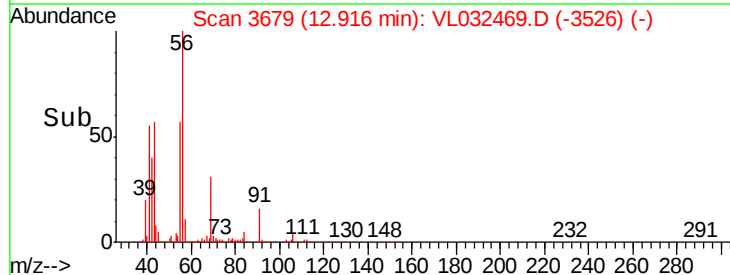
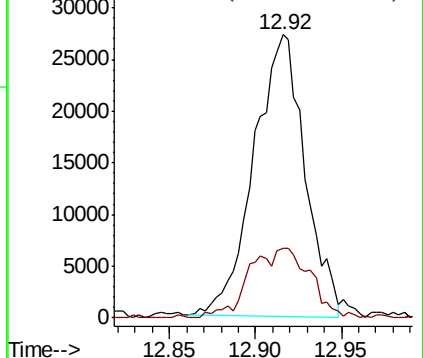


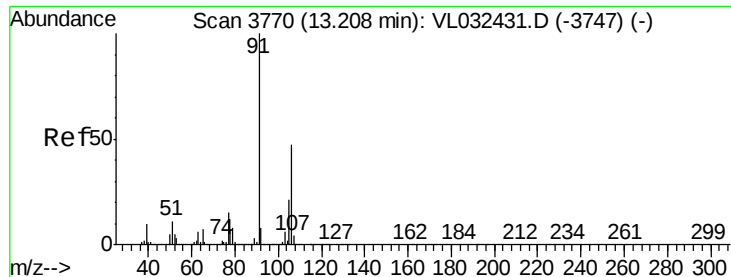
#58
Ethyl Benzene
Concen: 0.147 ppbv
RT: 12.92 min Scan# 3679
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Tgt Ion: 91 Resp: 56143
Ion Ratio Lower Upper
91 100
106 25.1 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

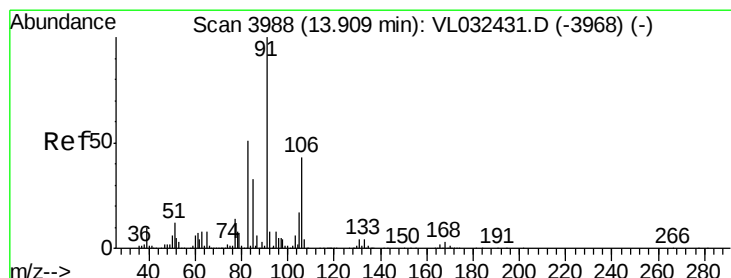
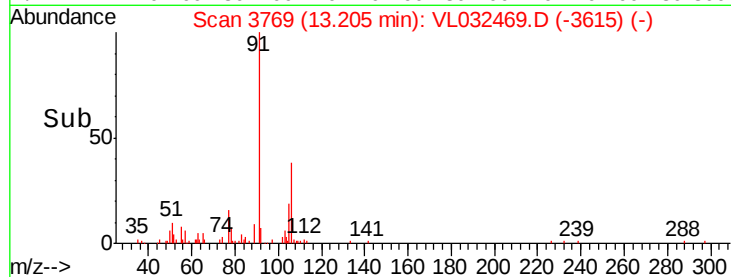
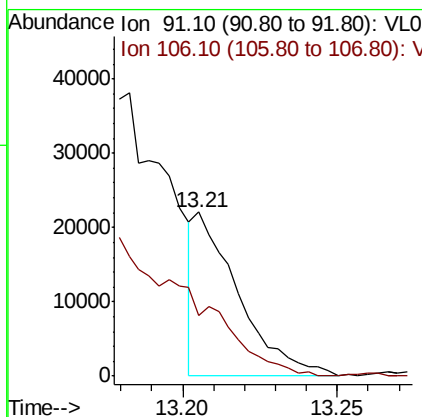
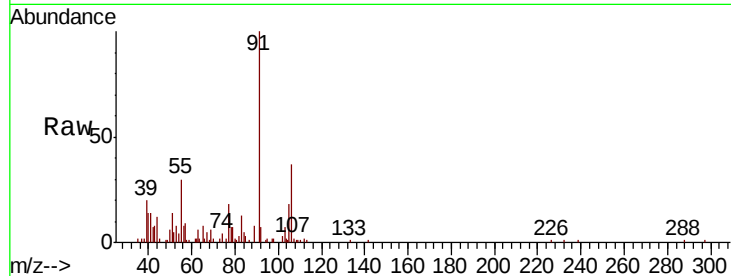




#59
m/p-Xylene
Concen: 0.064 ppbv
RT: 13.21 min Scan# 3769
Delta R.T. -0.00 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

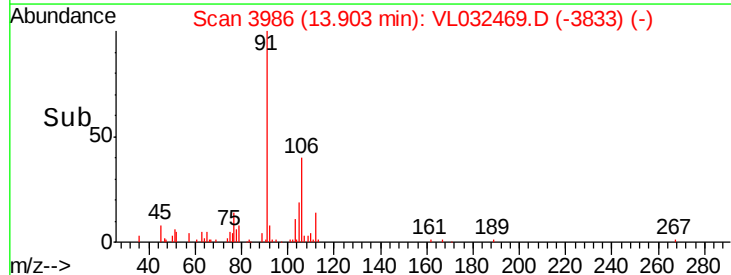
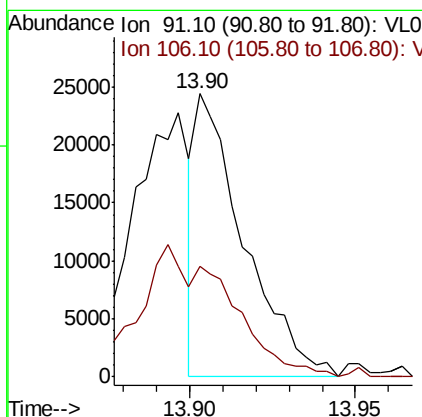
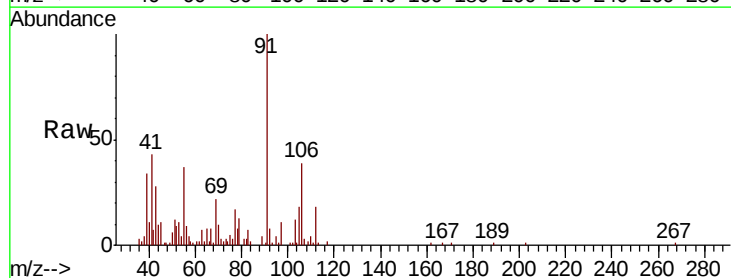
Instrument :
MSVOA_L
ClientSampleId :
VP-2

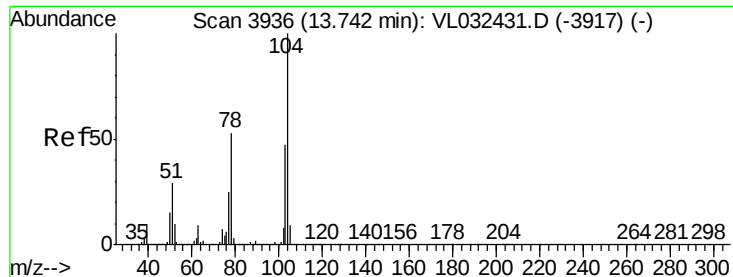
Tgt Ion: 91 Resp: 21668
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#



#60
o-Xylene
Concen: 0.074 ppbv
RT: 13.90 min Scan# 3986
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Tgt Ion: 91 Resp: 24738
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.7#





#61

Styrene

Concen: 0.047 ppbv

RT: 13.74 min Scan# 3934

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampleId :

VP-2

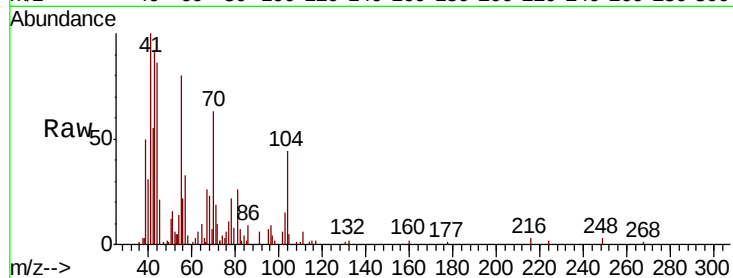
Tgt Ion: 104 Resp: 10175

Ion Ratio Lower Upper

104 100

78 71.0 41.8 62.8#

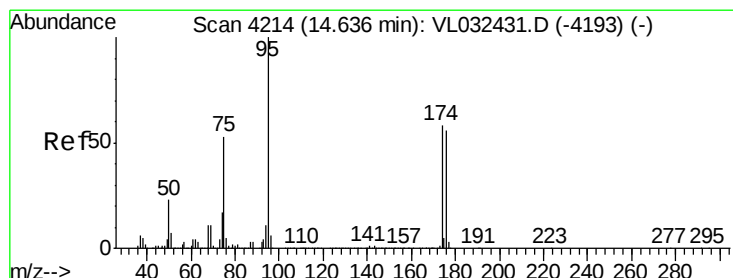
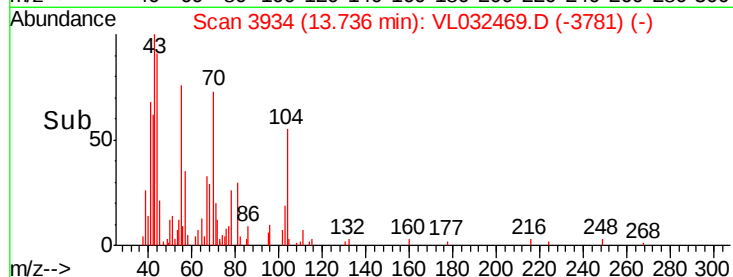
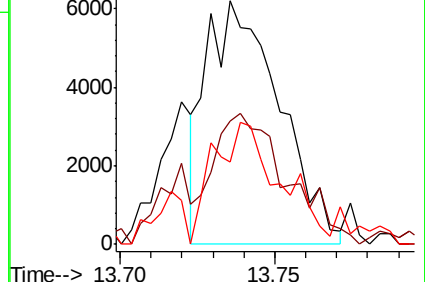
103 61.8 38.0 57.0#



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



#68

1-Bromo-4-Fluorobenzene

Concen: 10.372 ppbv

RT: 14.63 min Scan# 4211

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

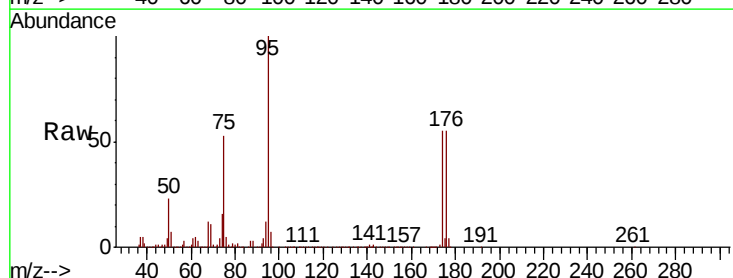
Tgt Ion: 95 Resp: 2454774

Ion Ratio Lower Upper

95 100

174 56.8 46.3 69.5

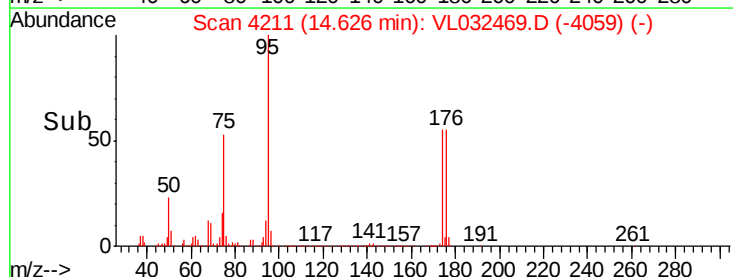
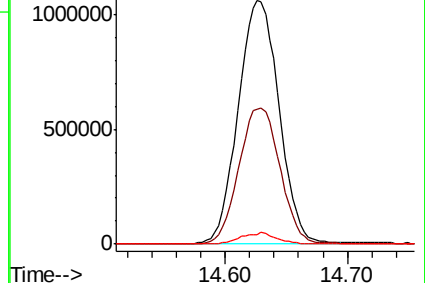
175 4.2 3.4 5.0

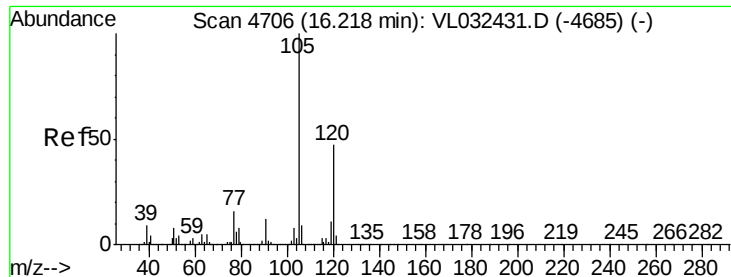


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#73

1,3,5-Trimethylbenzene

Concen: 0.031 ppbv

RT: 16.21 min Scan# 4703

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampled :

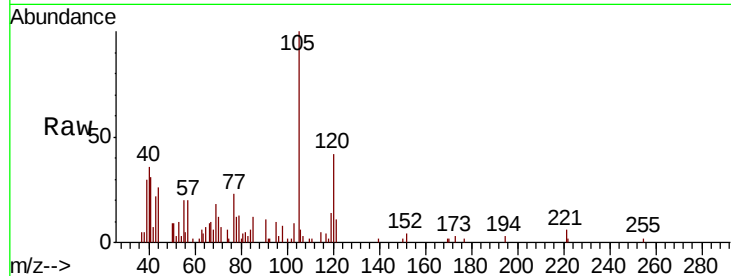
VP-2

Tgt Ion:105 Resp: 11297

Ion Ratio Lower Upper

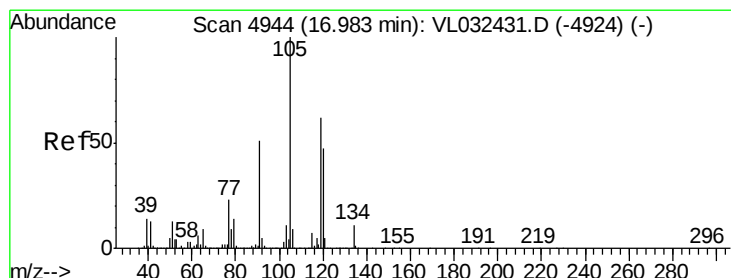
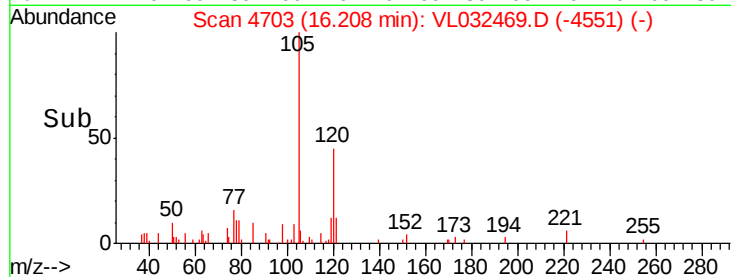
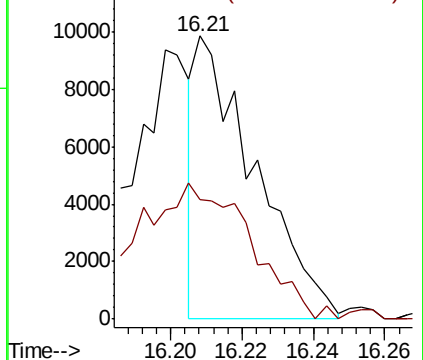
105 100

120 43.4 37.9 56.9



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: 0.107 ppbv

RT: 16.97 min Scan# 4941

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Tgt Ion:105 Resp: 42551

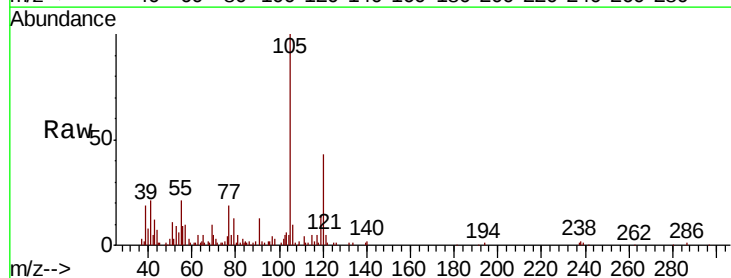
Ion Ratio Lower Upper

105 100

120 43.8 37.8 56.8

91 12.5 41.4 62.0#

77 14.6 18.6 28.0#

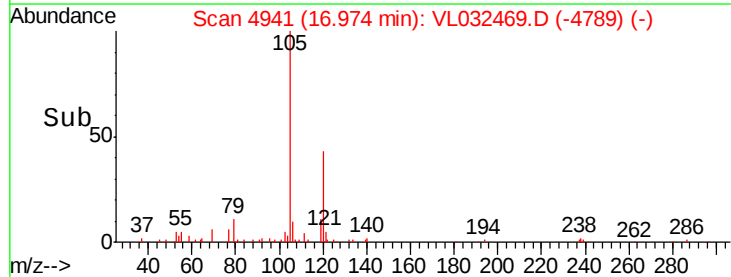
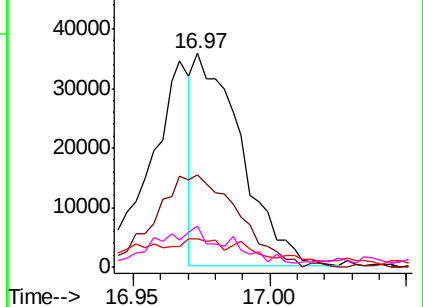


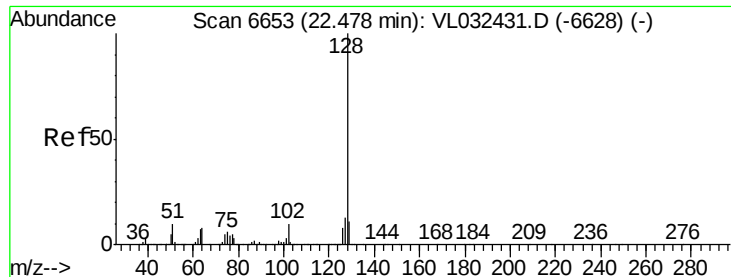
Abundance Ion 105.10 (104.80 to 105.80): V

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: 5.079 ppbv

RT: 22.47 min Scan# 6651

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampleId :

VP-2

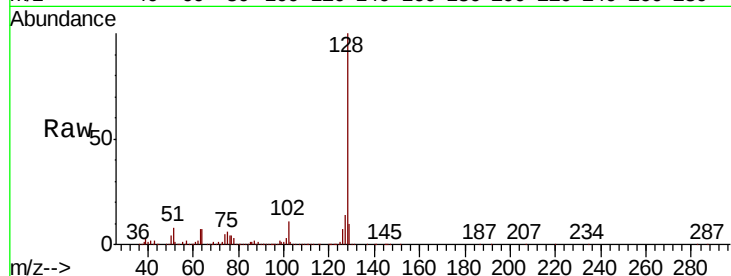
Tgt Ion:128 Resp: 1650180

Ion Ratio Lower Upper

128 100

127 13.9 10.2 15.2

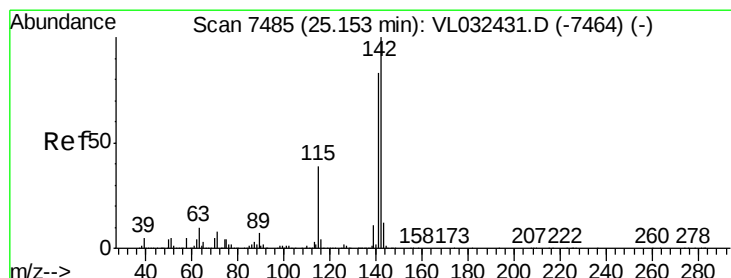
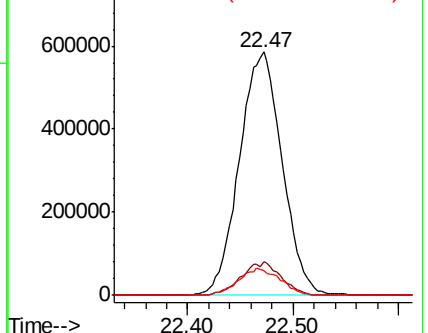
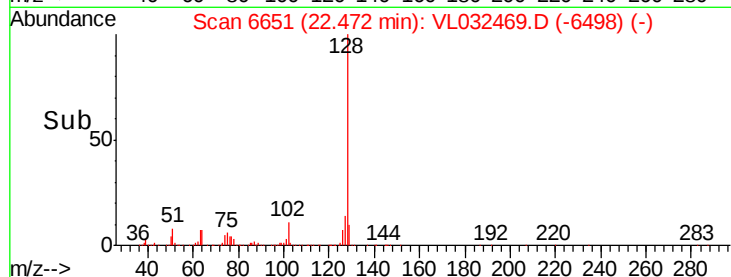
129 10.3 8.5 12.7



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: 6.715 ppbv

RT: 25.15 min Scan# 7484

Delta R.T. -0.00 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

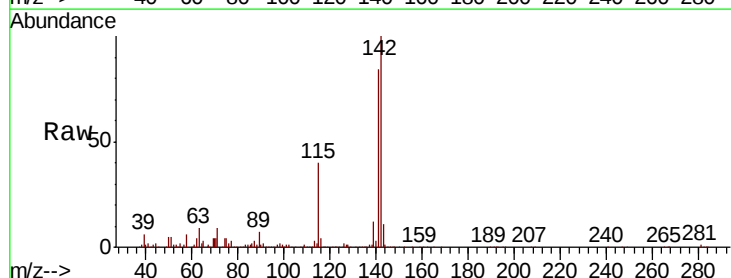
Tgt Ion:142 Resp: 580482

Ion Ratio Lower Upper

142 100

141 83.9 67.0 100.6

115 40.9 31.3 46.9



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

