

Data File : VL032854.D
Acq On : 30 Nov 2018 18:21
Operator : SY/AP
Sample : J6132-02DUP 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
DSV-01DL DUP

Quant Time: Dec 01 02:24:37 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1462569	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3665196	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3511130	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 2684535 10.22 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	11325	0.054	ppbv	89
3) Chlorodifluoromethane	3.02	51	6226	0.054	ppbv #	86
4) Chloromethane	3.17	50	12170	0.189	ppbv	98
5) Vinyl Chloride	3.05	62	23946	0.351	ppbv #	44
9) Propene	3.04	41	1193623	25.723	ppbv	91
10) Heptane	8.25	43	8584	0.048	ppbv #	26
13) Ethanol	3.66	45	64274	4.229	ppbv	99
15) Acetone	3.91	43	482166	3.610	ppbv	98
16) 1,3-Butadiene	3.35	39	475315	9.189	ppbv #	24
20) Methylene Chloride	4.41	84	46754	0.676	ppbv	96
21) Allyl Chloride	4.47	41	4829	0.043	ppbv #	1
23) Vinyl Acetate	5.14	43	18323	0.075	ppbv #	1
25) Ethyl Acetate	5.78	43	97815	0.314	ppbv #	82
26) Hexane	5.78	57	128901	0.930	ppbv #	42
27) Carbon Disulfide	4.63	76	899085	5.117	ppbv	99
30) Cyclohexane	7.25	84	12090	0.100	ppbv #	1
34) 2-Butanone	5.35	43	225408	1.186	ppbv	98
36) Benzene	7.01	78	173785	0.595	ppbv	98
39) 1,2-Dichloropropane	7.30	63	884445	7.953	ppbv #	23
44) 2,2,4-Trimethylpentane	7.99	57	54658	0.112	ppbv #	51
53) Toluene	9.95	91	221894	0.729	ppbv	98
59) m/p-Xylene	13.12	91	74644	0.198	ppbv #	75
60) o-Xylene	13.86	91	48165	0.127	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	21552	0.050	ppbv #	81

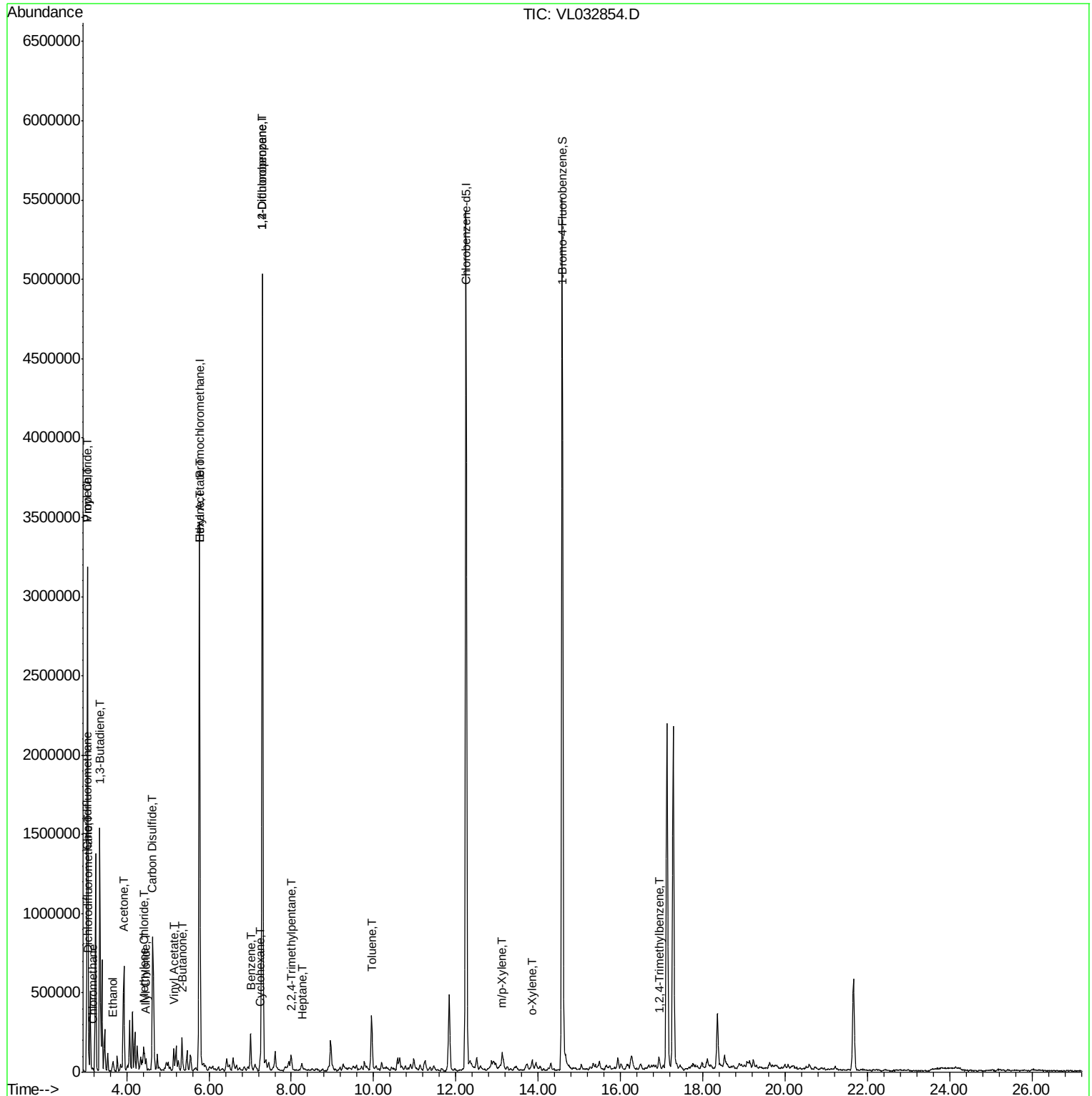
(#) = qualifier out of range (m) = manual integration (+) = signals summed

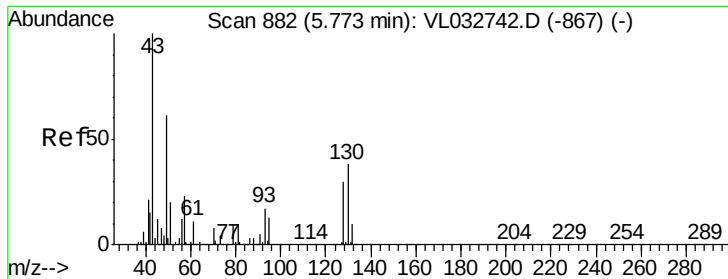
Data File : VL032854.D

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Acq On       : 30 Nov 2018 18:21
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ALS Vial    : 1      Sample Multipl
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Instrument :
MSVOA_L
ClientSampleId :
DSV-01DLDUP

Quant Time: Dec 01 02:24:37 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032854.D

Acq: 30 Nov 2018 18:21

Instrument :

MSVOA_L

ClientSampleId :

DSV-01DLDUP

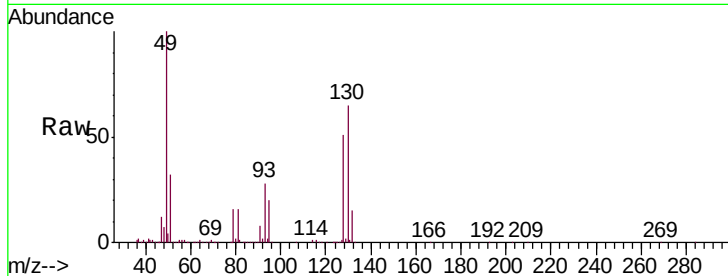
Tgt Ion: 49 Resp: 1462569

Ion Ratio Lower Upper

49 100

128 53.3 24.9 74.6

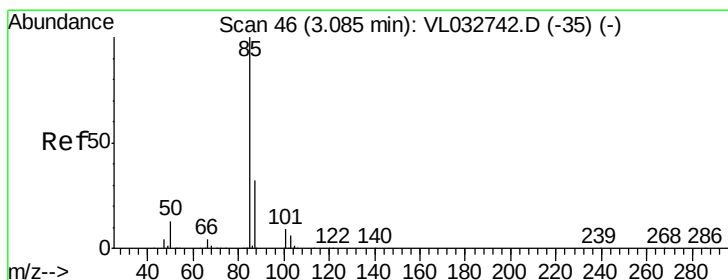
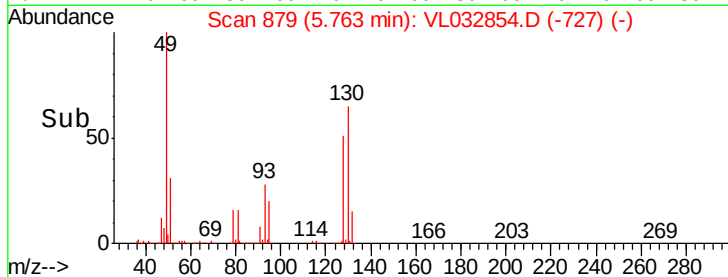
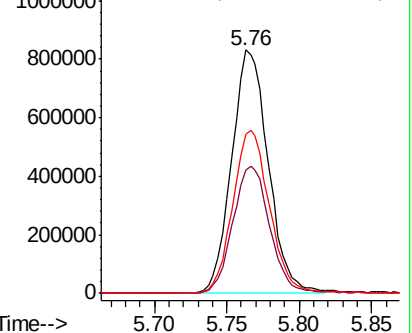
130 68.5 31.4 94.2



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: 0.054 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.01 min

Lab File: VL032854.D

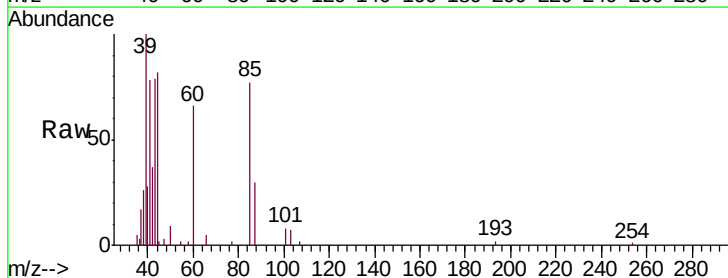
Acq: 30 Nov 2018 18:21

Tgt Ion: 85 Resp: 11325

Ion Ratio Lower Upper

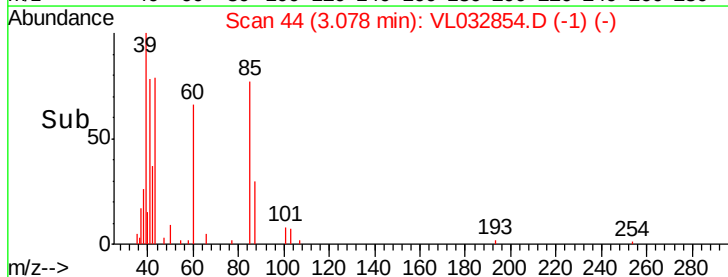
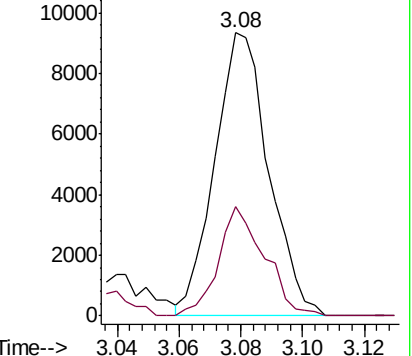
85 100

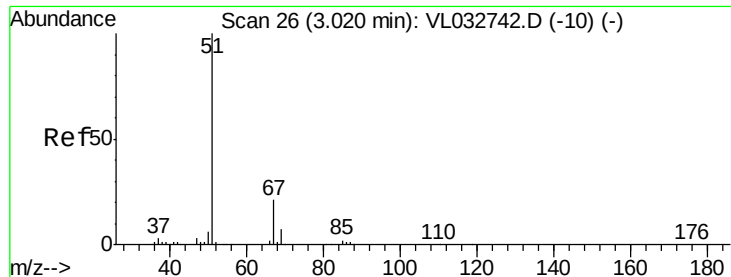
87 38.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.054 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL032854.D

Acq: 30 Nov 2018 18:21

Instrument :

MSVOA_L

ClientSampleId :

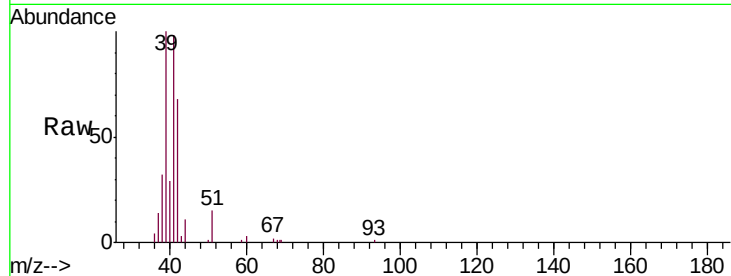
DSV-01DLDP

Tgt Ion: 51 Resp: 6226

Ion Ratio Lower Upper

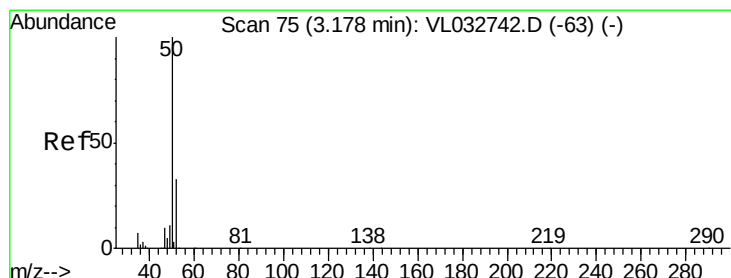
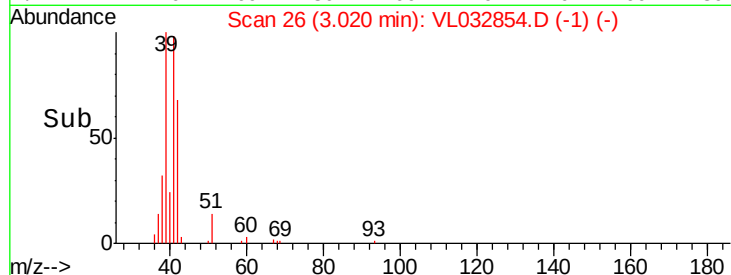
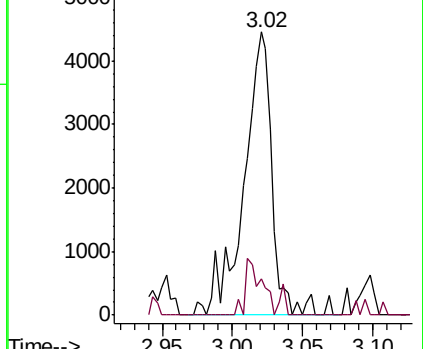
51 100

67 13.8 16.1 24.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.189 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032854.D

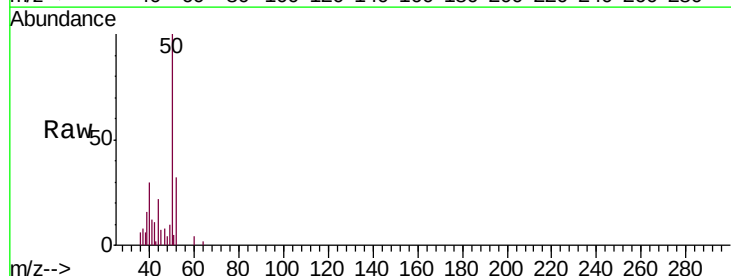
Acq: 30 Nov 2018 18:21

Tgt Ion: 50 Resp: 12170

Ion Ratio Lower Upper

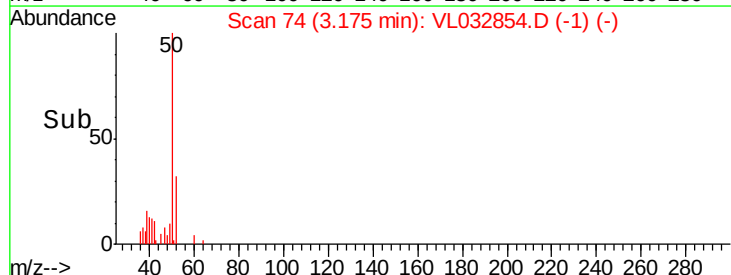
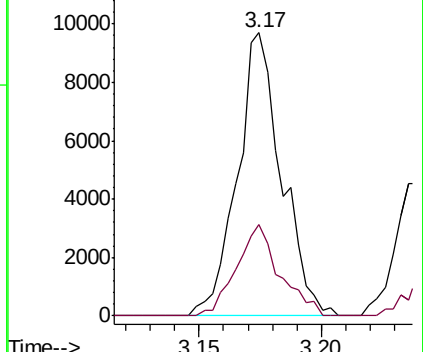
50 100

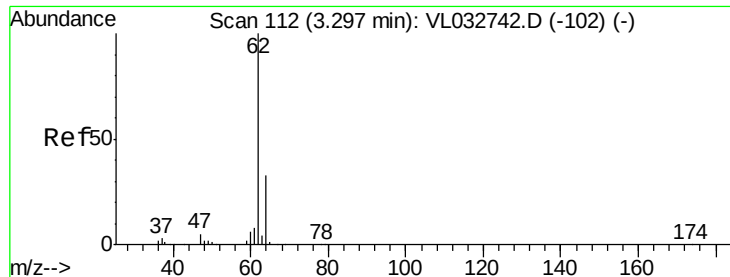
52 32.3 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.351 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.25 min

Lab File: VL032854.D

Acq: 30 Nov 2018 18:21

Instrument :

MSVOA_L

ClientSampleId :

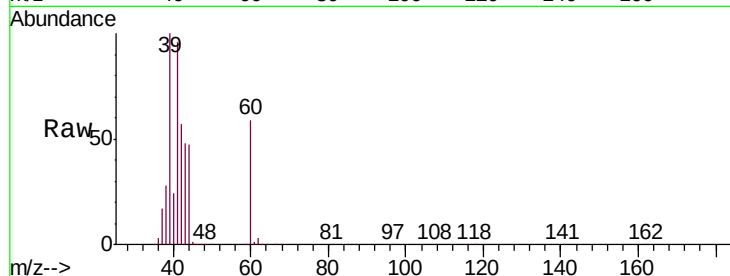
DSV-01DLDP

Tgt Ion: 62 Resp: 23946

Ion Ratio Lower Upper

62 100

64 1.3 26.2 39.4#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.05

20000

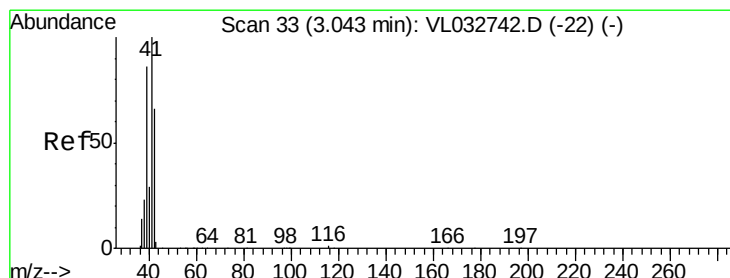
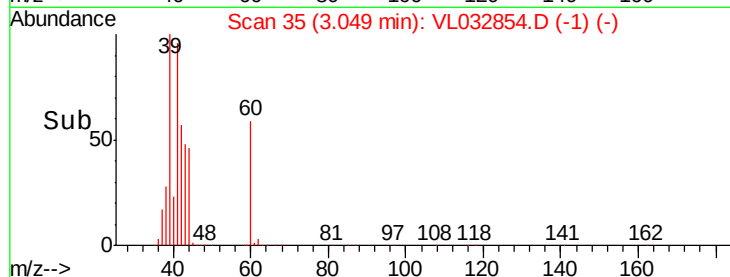
15000

10000

5000

0

Time--> 3.00 3.05 3.10



#9

Propene

Concen: 25.723 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032854.D

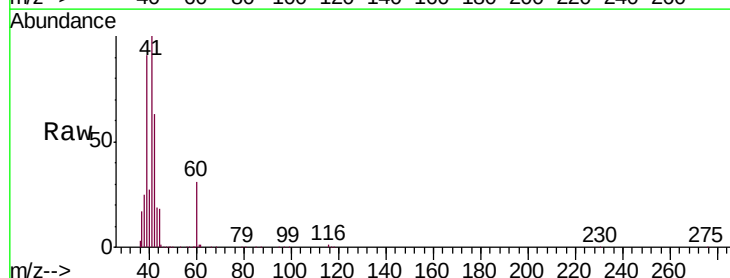
Acq: 30 Nov 2018 18:21

Tgt Ion: 41 Resp: 1193623

Ion Ratio Lower Upper

41 100

42 61.2 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.04

800000

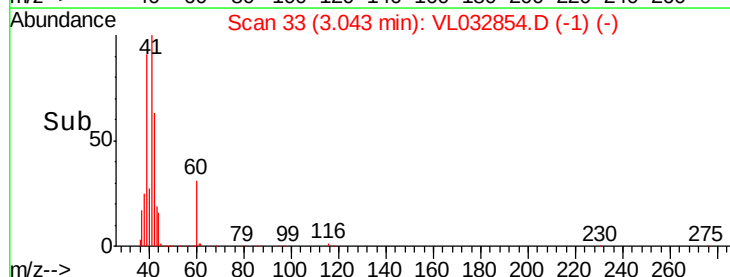
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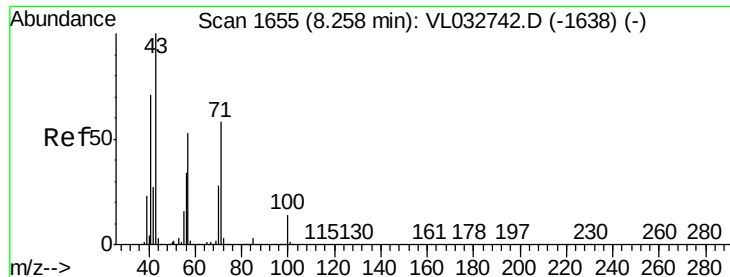
400000

200000

0

Time--> 3.00 3.05 3.10

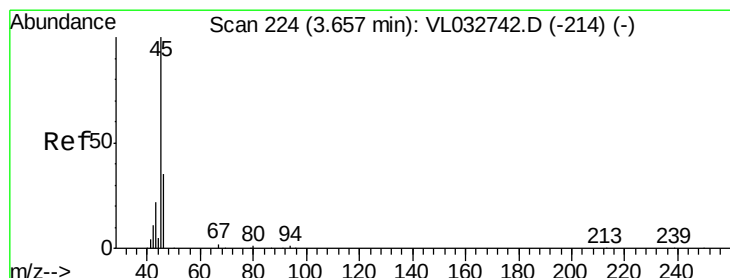
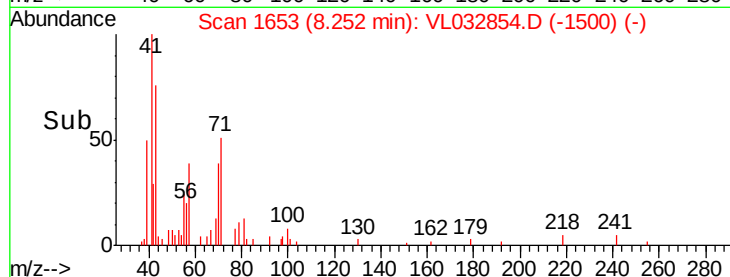
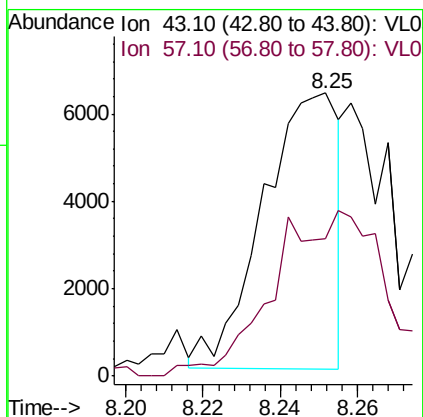
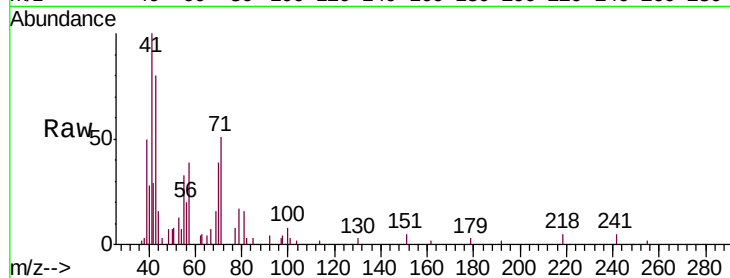




#10
Heptane
Concen: 0.048 ppbv
RT: 8.25 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VL032854.D
Acq: 30 Nov 2018 18:21

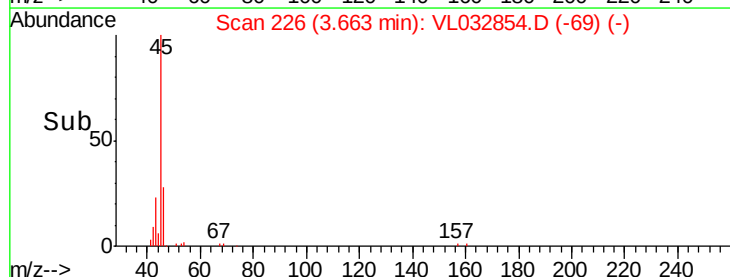
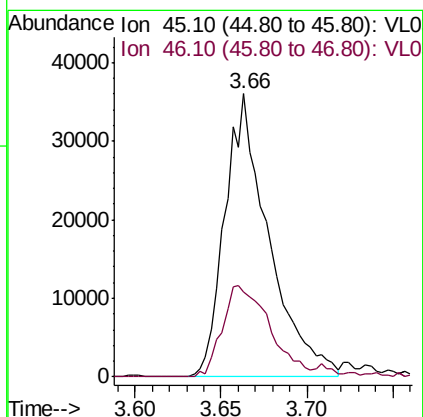
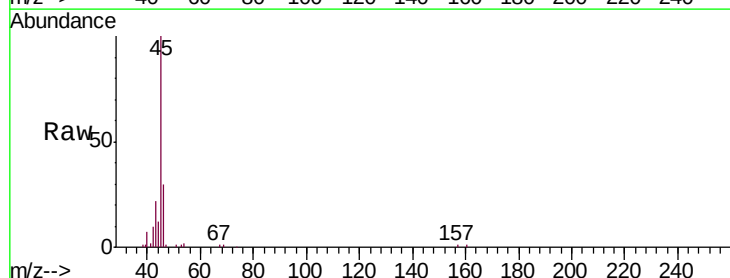
Instrument :
MSVOA_L
ClientSampleId :
DSV-01DLDUP

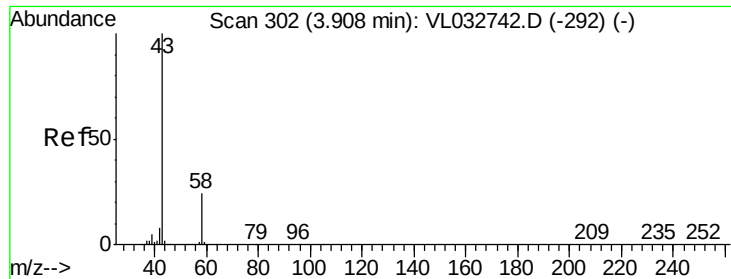
Tgt Ion: 43 Resp: 8584
Ion Ratio Lower Upper
43 100
57 0.0 41.8 62.8#



#13
Ethanol
Concen: 4.229 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL032854.D
Acq: 30 Nov 2018 18:21

Tgt Ion: 45 Resp: 64274
Ion Ratio Lower Upper
45 100
46 36.8 14.5 57.9





#15

Acetone

Concen: 3.610 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032854.D

Acq: 30 Nov 2018 18:21

Instrument :

MSVOA_L

ClientSampleId :

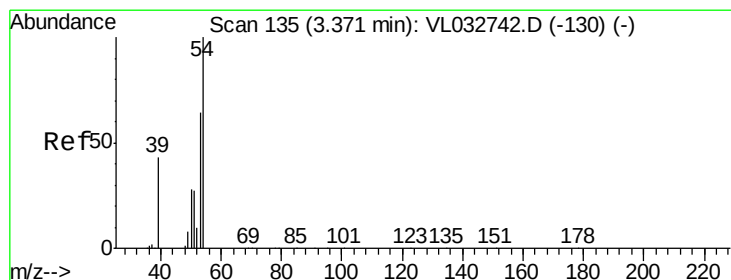
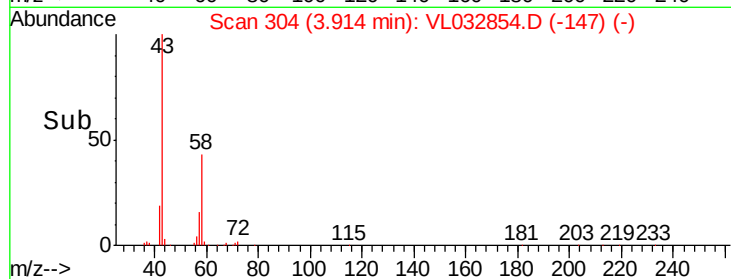
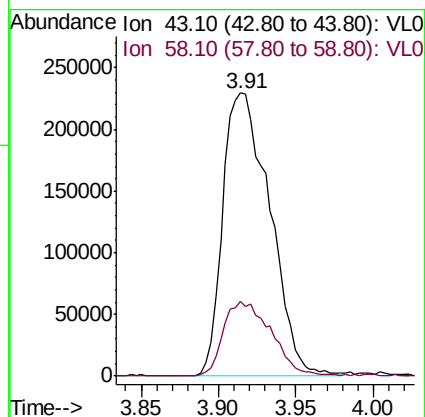
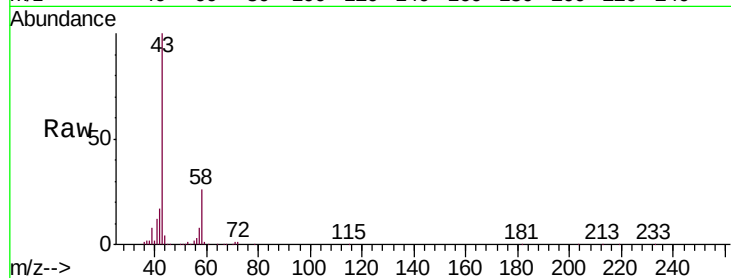
DSV-01DLDP

Tgt Ion: 43 Resp: 482166

Ion Ratio Lower Upper

43 100

58 27.5 21.1 31.7



#16

1,3-Butadiene

Concen: 9.189 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.02 min

Lab File: VL032854.D

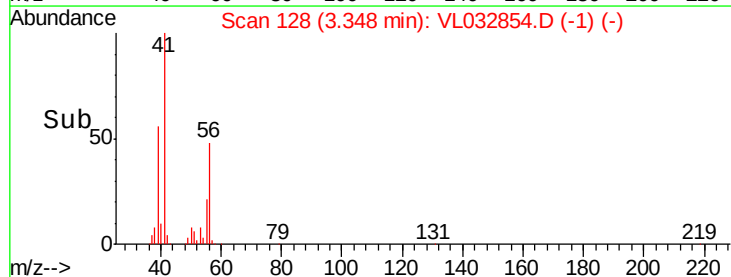
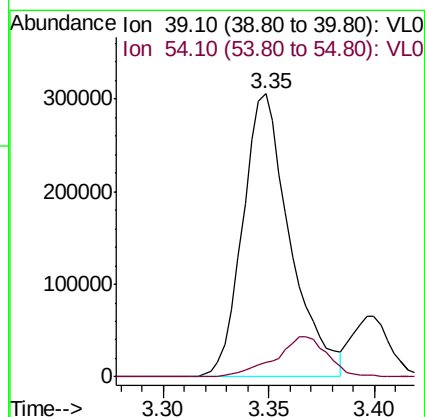
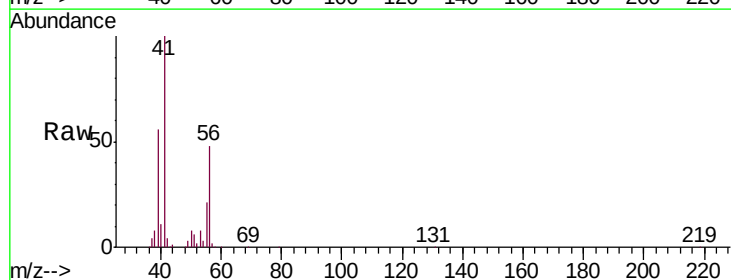
Acq: 30 Nov 2018 18:21

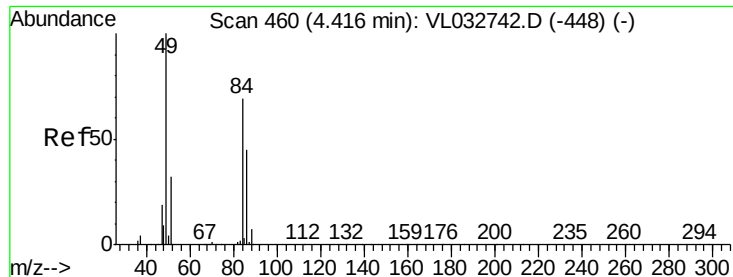
Tgt Ion: 39 Resp: 475315

Ion Ratio Lower Upper

39 100

54 16.0 68.9 103.3#

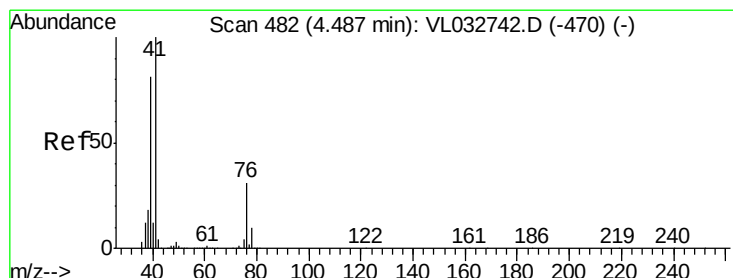
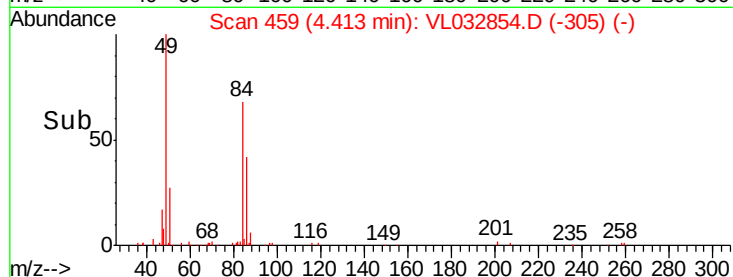
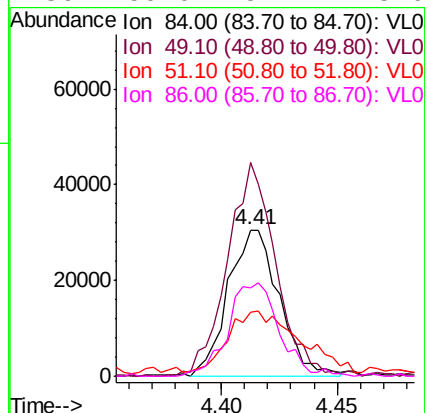
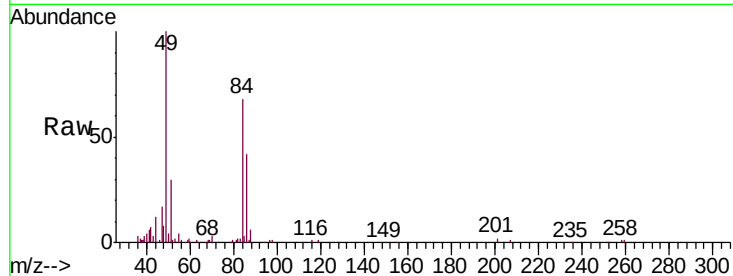




#20
Methylene Chloride
Concen: 0.676 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL032854.D
Acq: 30 Nov 2018 18:21

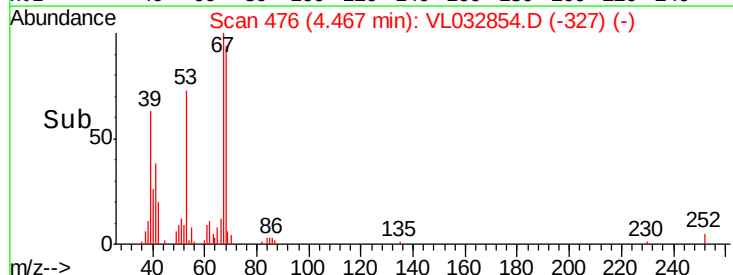
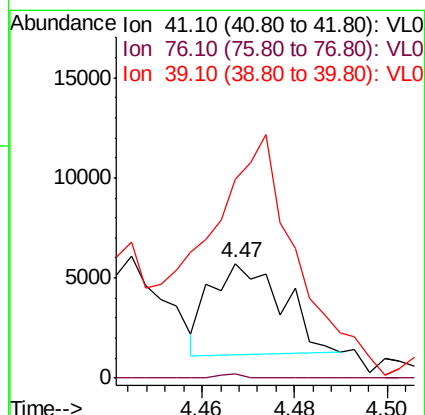
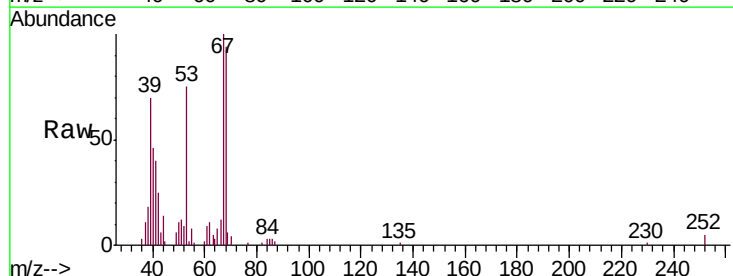
Instrument :
MSVOA_L
ClientSampleId :
DSV-01DLDP

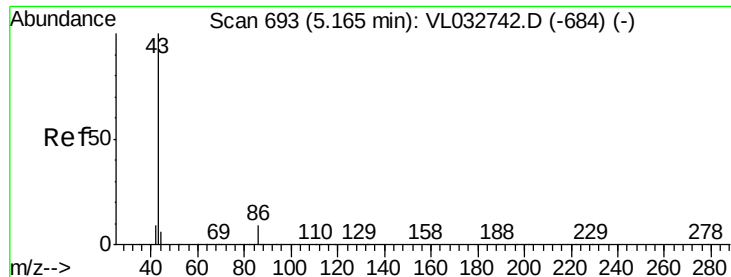
Tgt Ion:	84	Resp:	46754
Ion	Ratio	Lower	Upper
84	100		
49	143.3	115.8	173.6
51	39.7	36.9	55.3
86	59.0	52.4	78.6



#21
Allyl Chloride
Concen: 0.043 ppbv
RT: 4.47 min Scan# 476
Delta R.T. -0.02 min
Lab File: VL032854.D
Acq: 30 Nov 2018 18:21

Tgt Ion:	41	Resp:	4829
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	334.2	63.5	95.3#





#23

Vinyl Acetate

Concen: 0.075 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.02 min

Lab File: VL032854.D

Acq: 30 Nov 2018 18:21

Instrument :

MSVOA_L

ClientSampleId :

DSV-01DLDP

Tgt Ion: 43 Resp: 18323

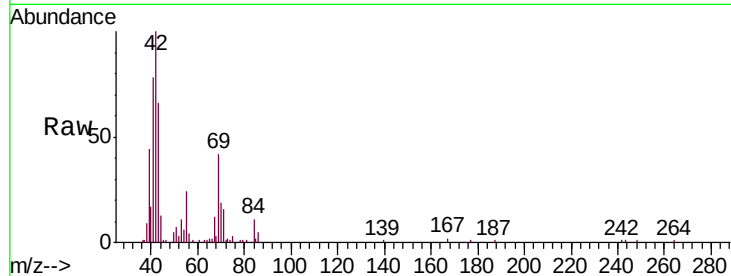
Ion Ratio Lower Upper

43 100

86 7.3 6.2 9.4

42 173.6 7.8 11.6#

44 11.7 4.4 6.6#

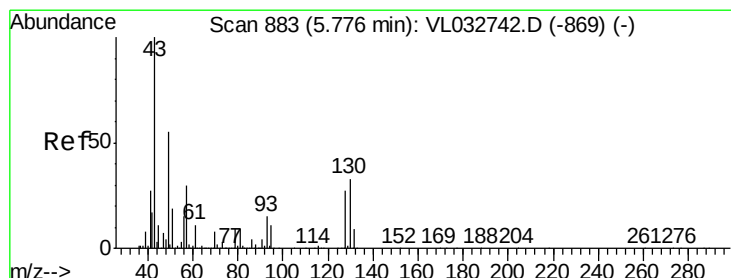
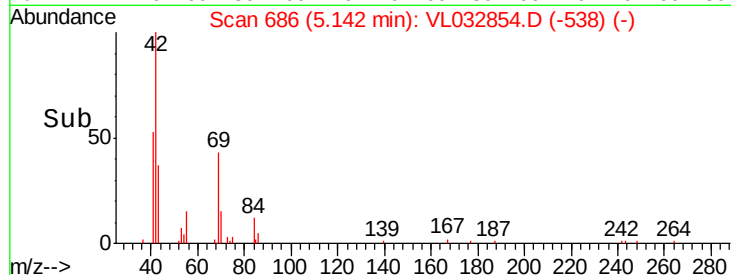
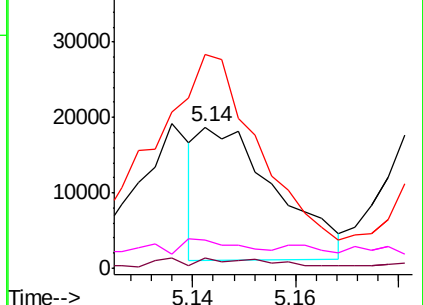


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.314 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL032854.D

Acq: 30 Nov 2018 18:21

Tgt Ion: 43 Resp: 97815

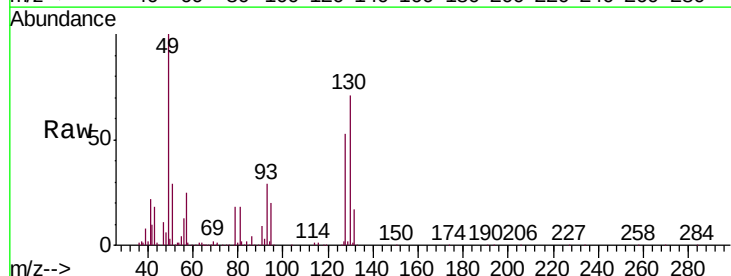
Ion Ratio Lower Upper

43 100

45 3.2 7.9 11.9#

61 1.5 7.8 11.6#

70 3.0 5.8 8.6#

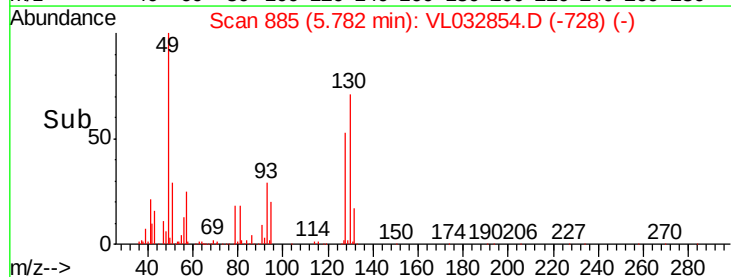
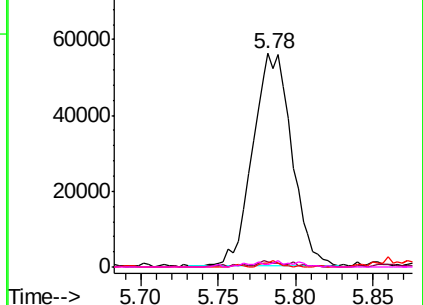


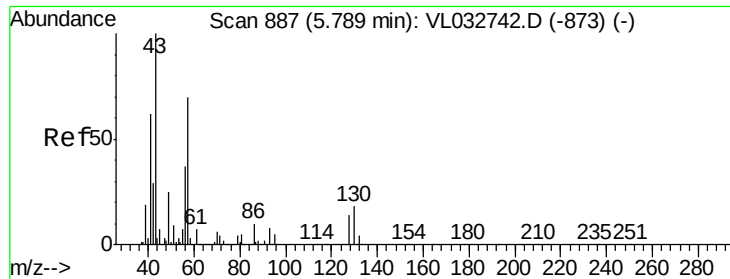
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

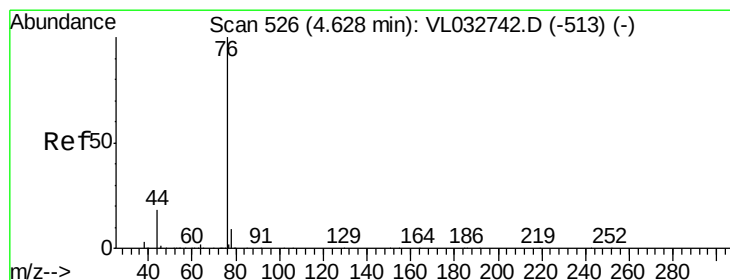
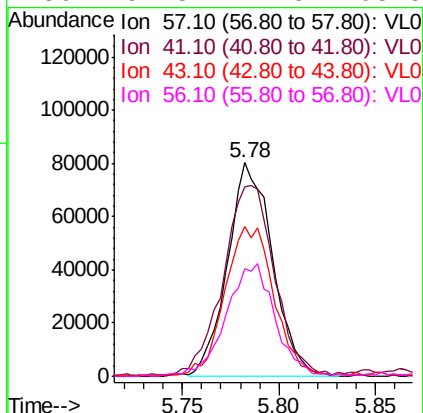
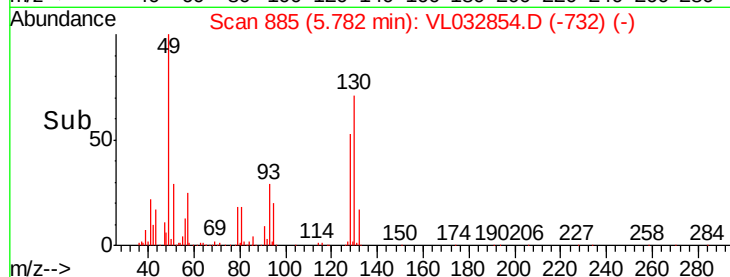
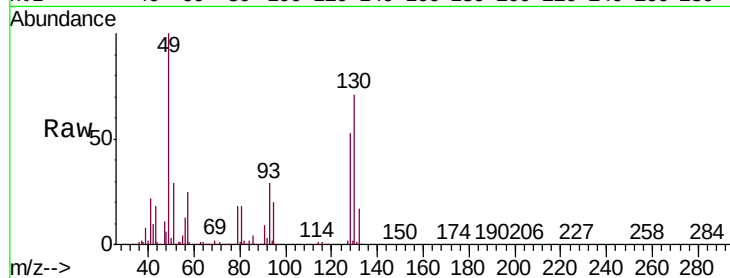




#26
Hexane
Concen: 0.930 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.01 min
Lab File: VL032854.D
Acq: 30 Nov 2018 18:21

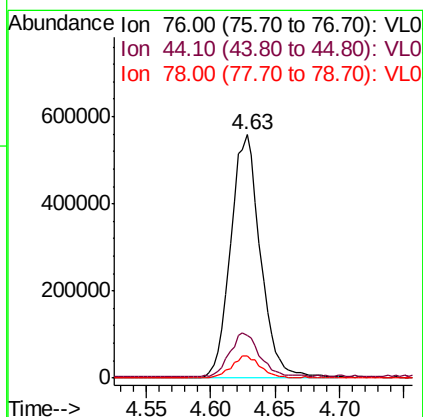
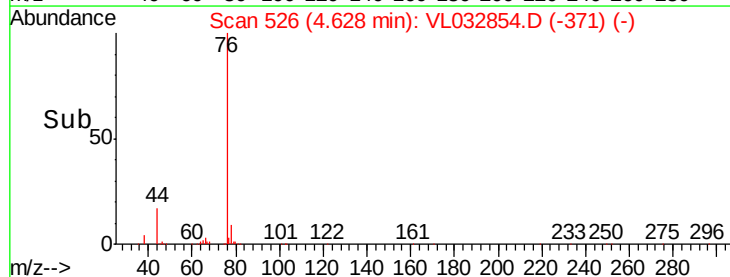
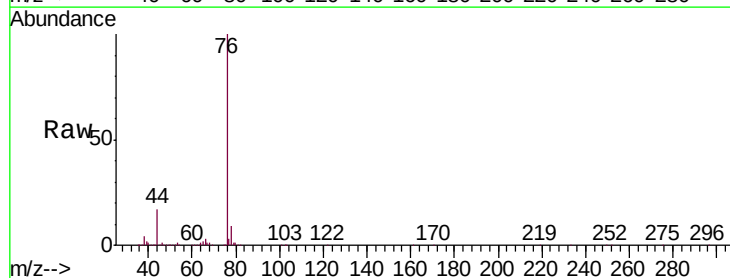
Instrument :
MSVOA_L
ClientSampleId :
DSV-01DLDP

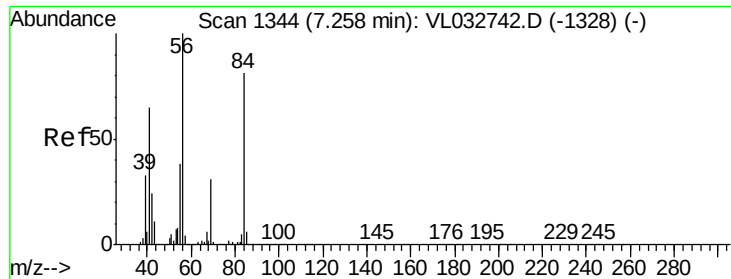
Tgt Ion: 57 Resp: 128901
Ion Ratio Lower Upper
57 100
41 102.1 70.3 105.5
43 76.8 174.0 261.0#
56 57.8 42.3 63.5



#27
Carbon Disulfide
Concen: 5.117 ppbv
RT: 4.63 min Scan# 526
Delta R.T. -0.00 min
Lab File: VL032854.D
Acq: 30 Nov 2018 18:21

Tgt Ion: 76 Resp: 899085
Ion Ratio Lower Upper
76 100
44 18.2 14.4 21.6
78 9.1 7.7 11.5

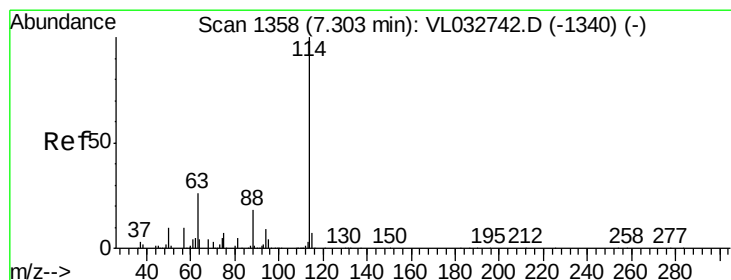
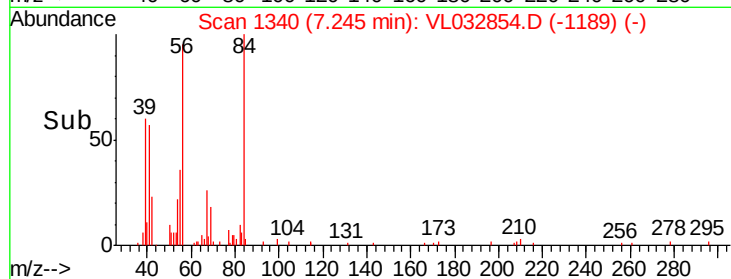
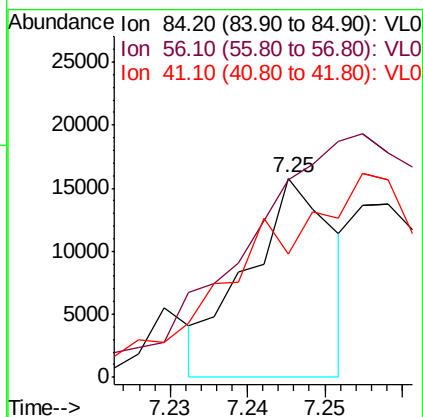
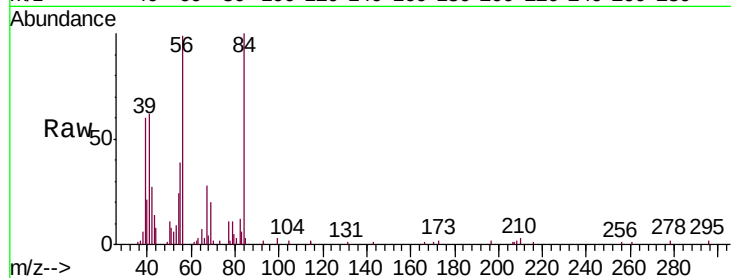




#30
Cyclohexane
Concen: 0.100 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.01 min
Lab File: VL032854.D
Acq: 30 Nov 2018 18:21

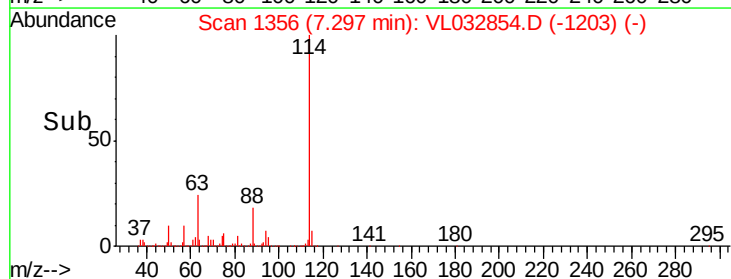
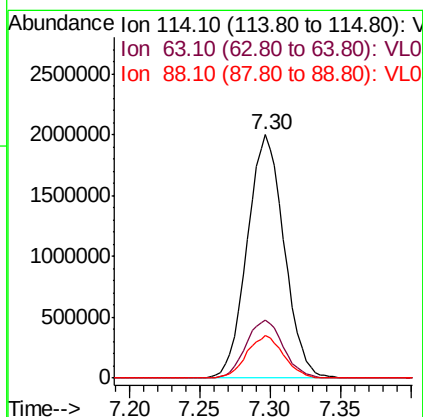
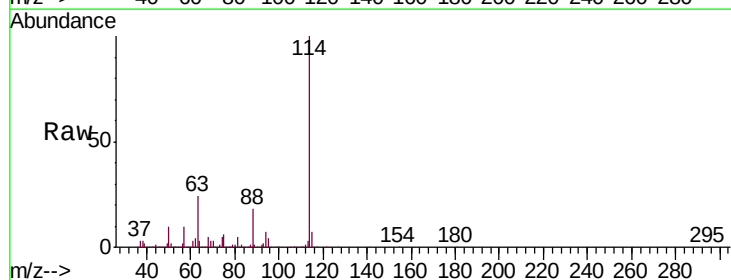
Instrument :
MSVOA_L
ClientSampleId :
DSV-01DLDP

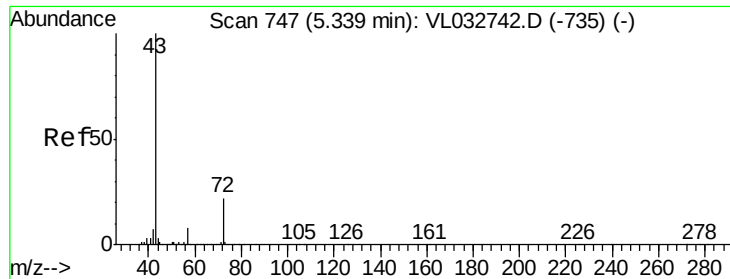
Tgt Ion: 84 Resp: 12090
Ion Ratio Lower Upper
84 100
56 0.0 105.0 157.4#
41 0.0 65.3 97.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VL032854.D
Acq: 30 Nov 2018 18:21

Tgt Ion: 114 Resp: 3665196
Ion Ratio Lower Upper
114 100
63 24.2 20.9 31.3
88 17.5 14.4 21.6

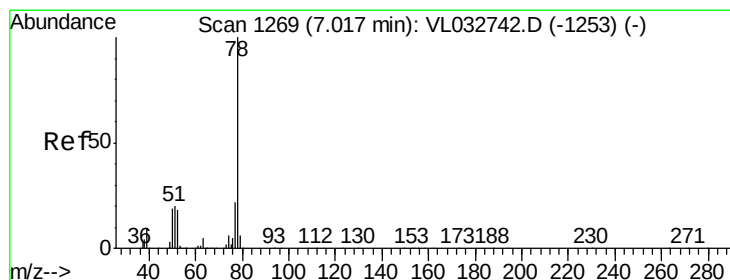
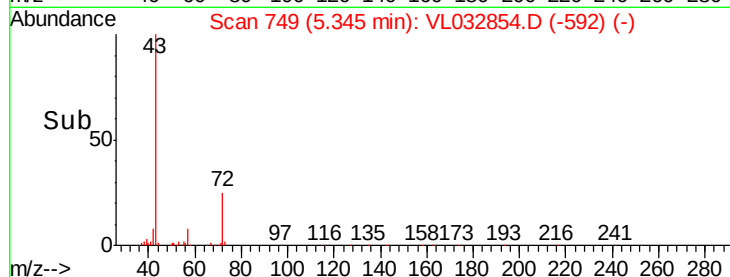
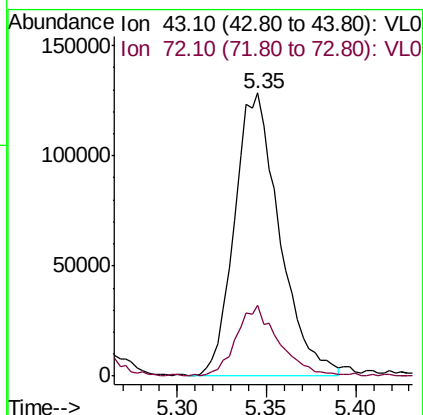
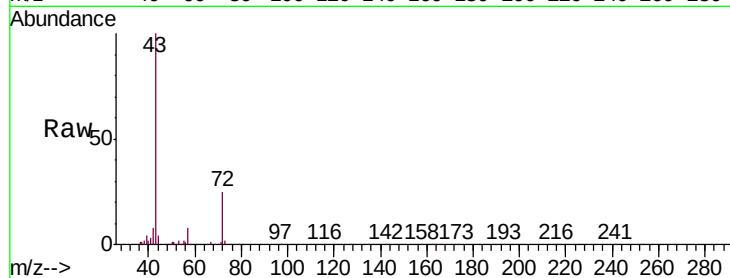




#34
2-Butanone
Concen: 1.186 ppbv
RT: 5.35 min Scan# 749
Delta R.T. 0.01 min
Lab File: VL032854.D
Acq: 30 Nov 2018 18:21

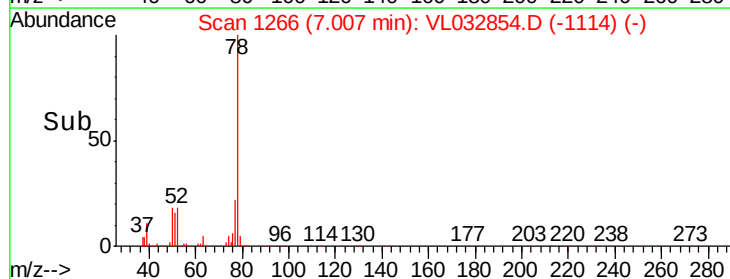
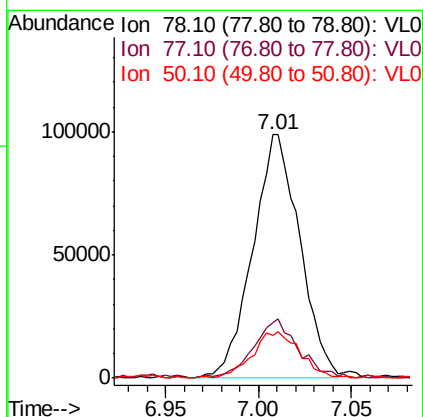
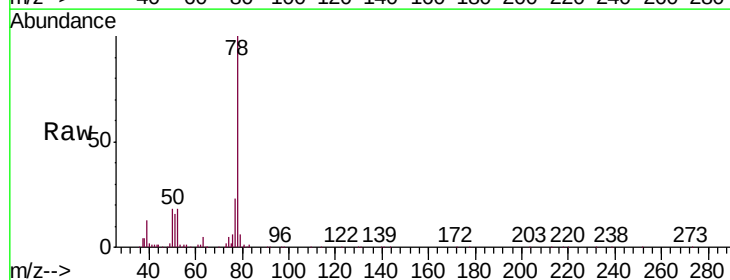
Instrument :
MSVOA_L
ClientSampleId :
DSV-01DLDP

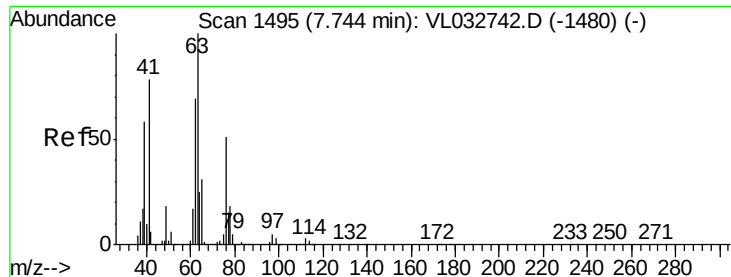
Tgt Ion: 43 Resp: 225408
Ion Ratio Lower Upper
43 100
72 24.1 18.4 27.6



#36
Benzene
Concen: 0.595 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.01 min
Lab File: VL032854.D
Acq: 30 Nov 2018 18:21

Tgt Ion: 78 Resp: 173785
Ion Ratio Lower Upper
78 100
77 22.3 17.8 26.8
50 17.4 15.4 23.0





#39

1,2-Dichloropropane

Concen: 7.953 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032854.D

Acq: 30 Nov 2018 18:21

Instrument :

MSVOA_L

ClientSampleId :

DSV-01DLDUP

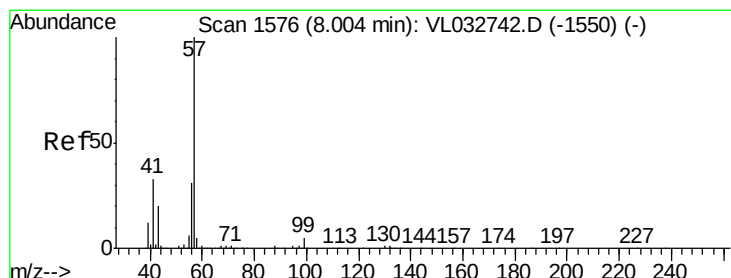
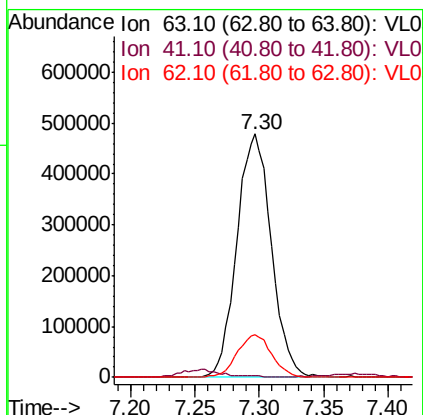
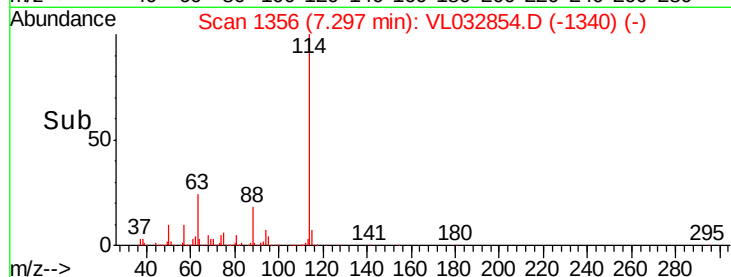
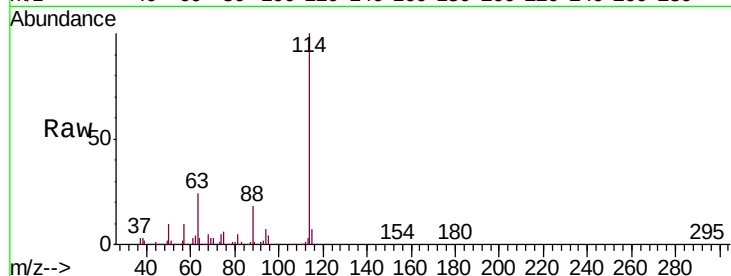
Tgt Ion: 63 Resp: 884445

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

62 17.4 55.4 83.2#



#44

2,2,4-Trimethylpentane

Concen: 0.112 ppbv

RT: 7.99 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VL032854.D

Acq: 30 Nov 2018 18:21

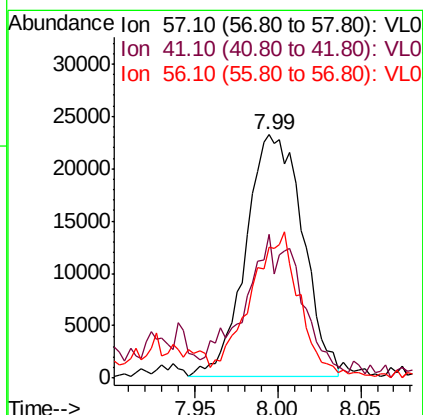
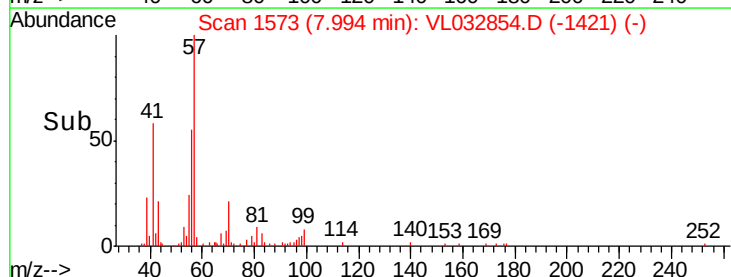
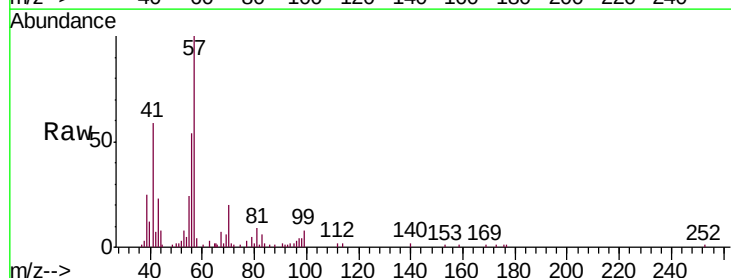
Tgt Ion: 57 Resp: 54658

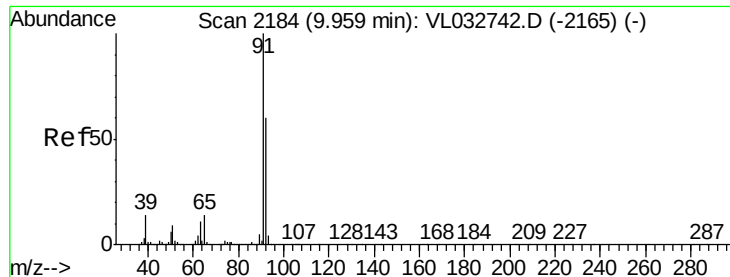
Ion Ratio Lower Upper

57 100

41 64.4 26.6 39.8#

56 54.6 24.8 37.2#





#53

Toluene

Concen: 0.729 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032854.D

Acq: 30 Nov 2018 18:21

Instrument :

MSVOA_L

ClientSampleId :

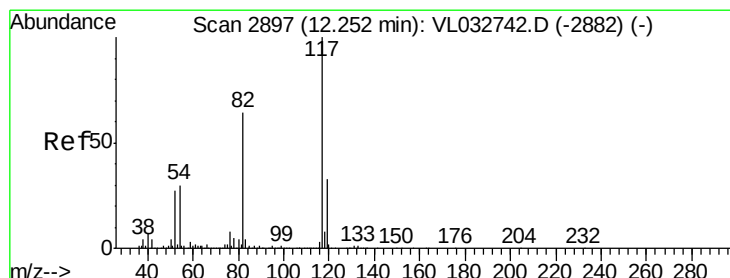
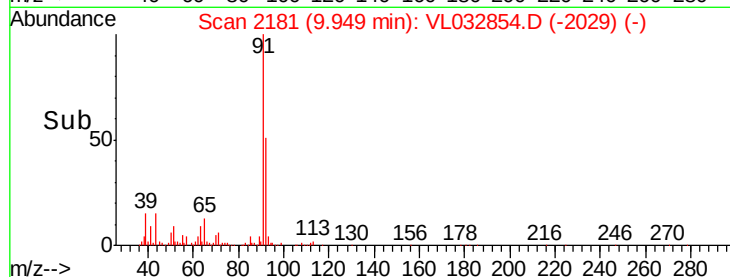
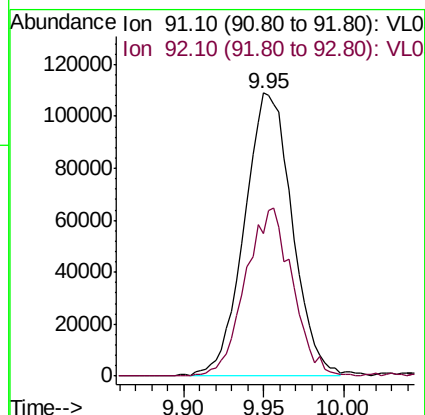
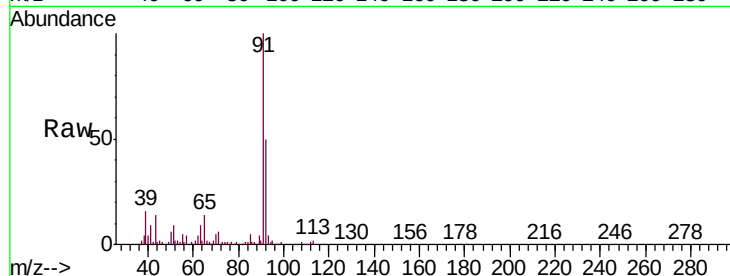
DSV-01DLDP

Tgt Ion: 91 Resp: 221894

Ion Ratio Lower Upper

91 100

92 58.6 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032854.D

Acq: 30 Nov 2018 18:21

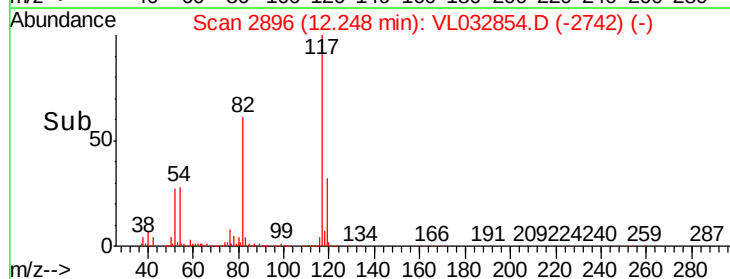
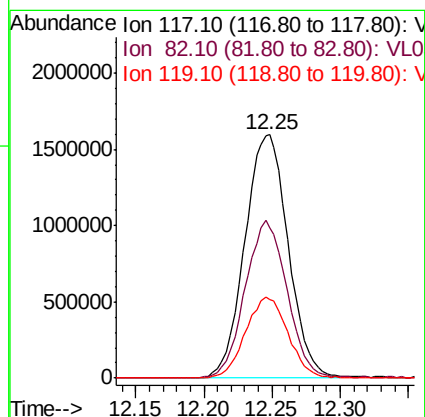
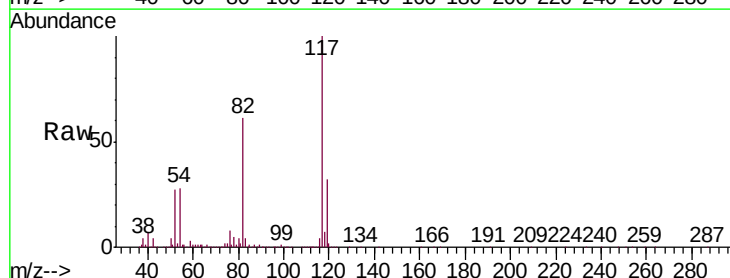
Tgt Ion: 117 Resp: 3511130

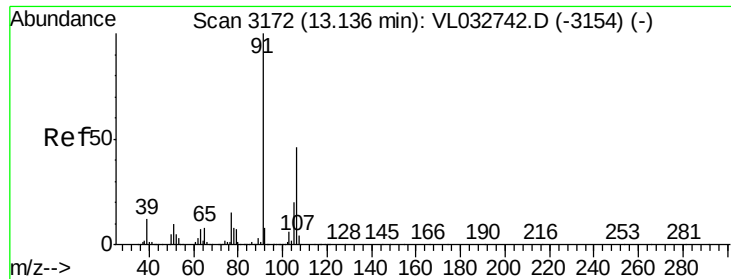
Ion Ratio Lower Upper

117 100

82 62.8 51.0 76.6

119 32.7 28.0 42.0





#59

m/p-Xylene

Concen: 0.198 ppbv

RT: 13.12 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL032854.D

Acq: 30 Nov 2018 18:21

Instrument :

MSVOA_L

ClientSampleId :

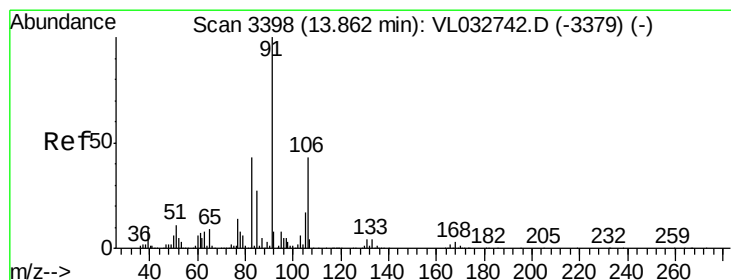
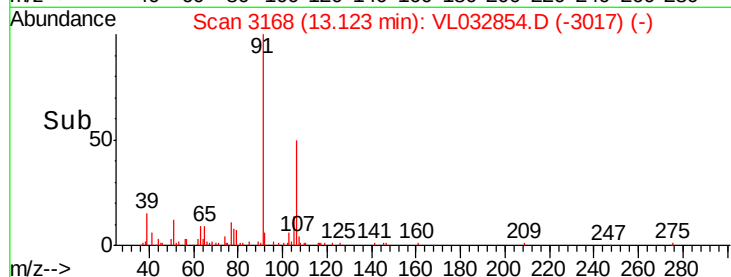
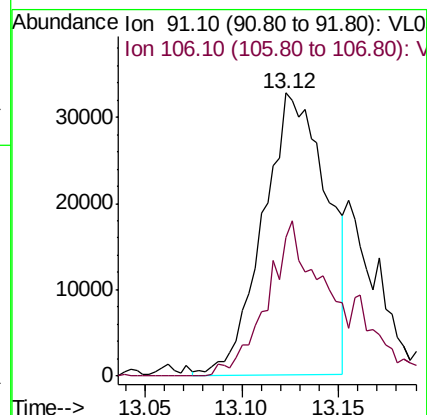
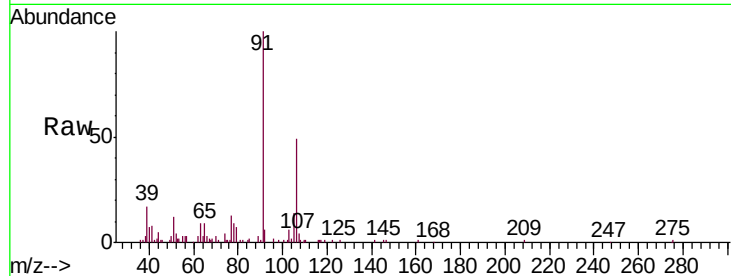
DSV-01DLDP

Tgt Ion: 91 Resp: 74644

Ion Ratio Lower Upper

91 100

106 61.2 36.1 54.1#



#60

o-Xylene

Concen: 0.127 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. -0.00 min

Lab File: VL032854.D

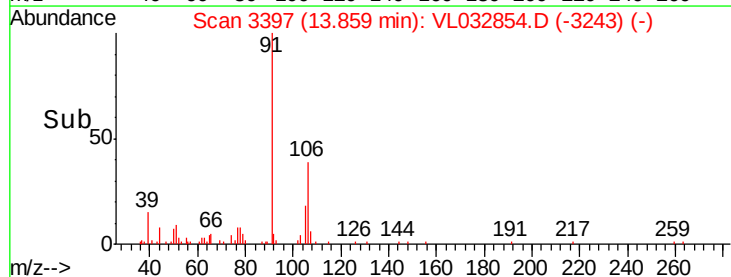
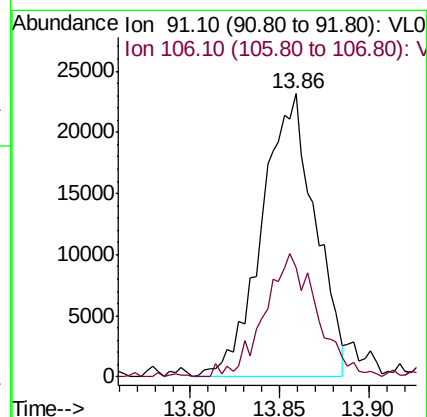
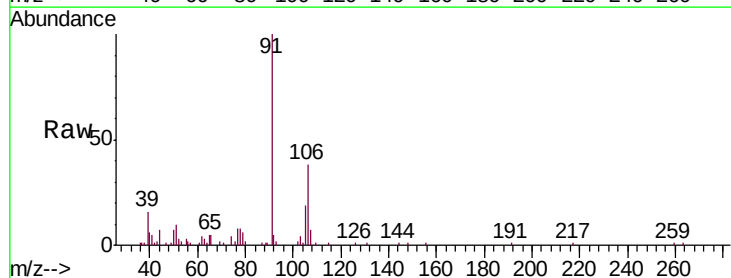
Acq: 30 Nov 2018 18:21

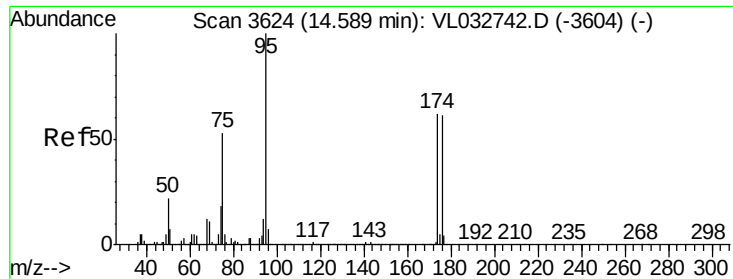
Tgt Ion: 91 Resp: 48165

Ion Ratio Lower Upper

91 100

106 43.0 21.9 65.7

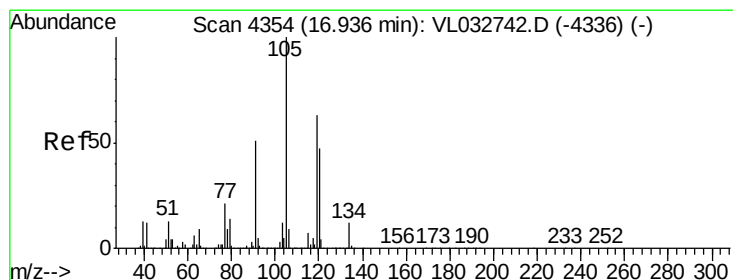
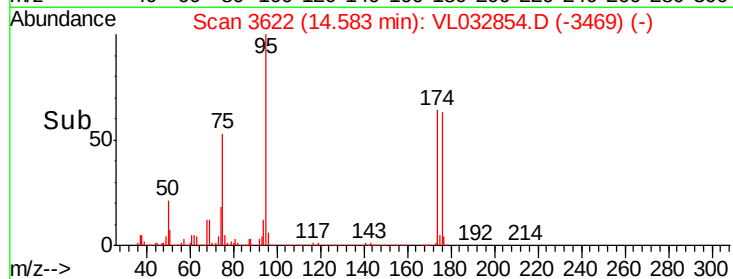
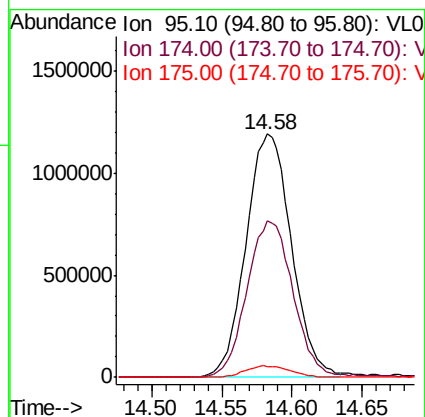
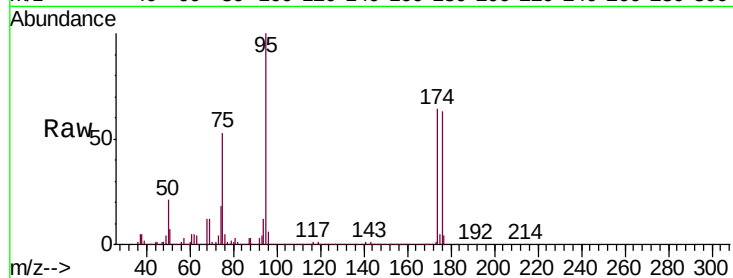




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.222 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL032854.D
 Acq: 30 Nov 2018 18:21

Instrument :
 MSVOA_L
 ClientSampleId :
 DSV-01DLDP

Tgt Ion: 95 Resp: 2684535
 Ion Ratio Lower Upper
 95 100
 174 66.4 50.7 76.1
 175 4.8 3.8 5.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.050 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. -0.01 min
 Lab File: VL032854.D
 Acq: 30 Nov 2018 18:21

Tgt Ion: 105 Resp: 21552
 Ion Ratio Lower Upper
 105 100
 120 49.9 37.6 56.4
 91 30.1 42.5 63.7#
 77 12.6 17.4 26.2#

