

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032519\
 Data File : VL033455.D
 Acq On : 26 Mar 2019 3:25
 Operator : SY/AP
 Sample : K1991-06DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL

Quant Time: Mar 26 05:24:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019
 QLast Update : Mon Mar 25 16:04:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	789203	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1899631	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1906535	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1450568	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

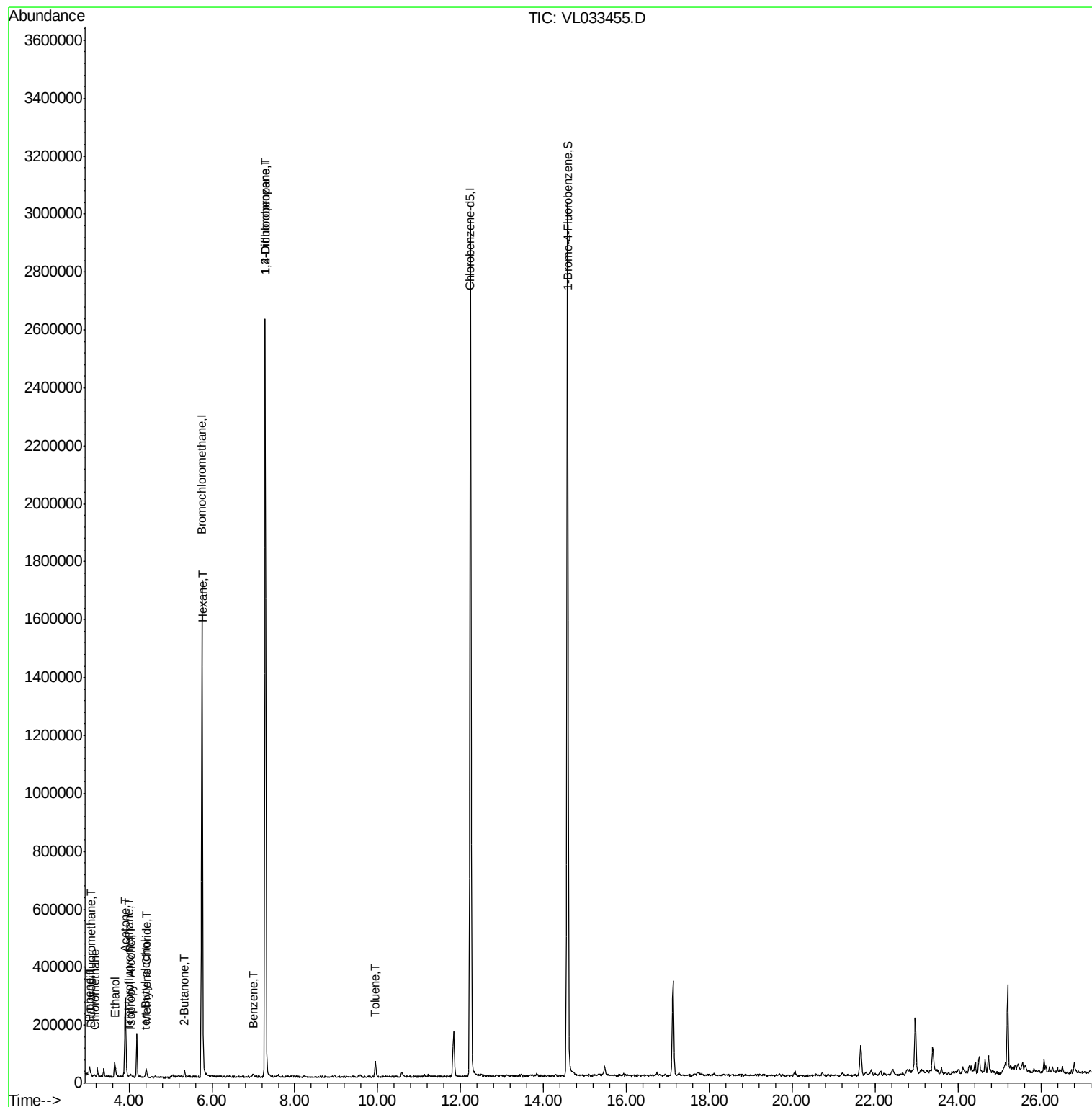
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	2754	0.024	ppbv	97
4) Chloromethane	3.17	50	1490	0.031	ppbv #	71
9) Propene	3.04	41	2756	0.072	ppbv #	16
11) Trichlorofluoromethane	4.01	101	3266	0.023	ppbv #	74
13) Ethanol	3.66	45	59629	6.623	ppbv	63
15) Acetone	3.90	43	301675	3.179	ppbv	98
17) tert-Butyl alcohol	4.38	59	742	0.043	ppbv #	73
19) Isopropyl Alcohol	4.04	45	10344	0.172	ppbv #	1
20) Methylene Chloride	4.41	84	7426	0.184	ppbv #	86
26) Hexane	5.78	57	9154	0.117	ppbv #	41
34) 2-Butanone	5.34	43	24172	0.212	ppbv	97
36) Benzene	7.00	78	4154	0.026	ppbv #	73
39) 1,2-Dichloropropane	7.29	63	482875	7.734	ppbv #	23
53) Toluene	9.94	91	39413	0.213	ppbv	99

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019
QLast Update : Mon Mar 25 16:04:49 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033455.D

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Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

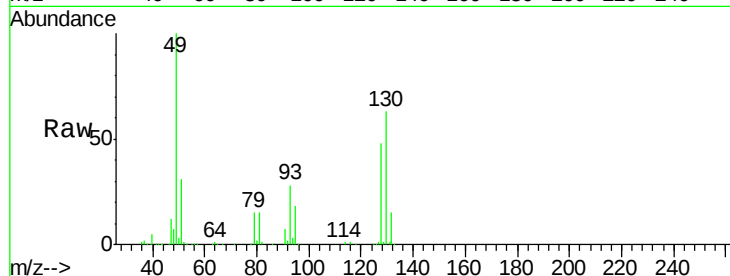
Tgt Ion: 49 Resp: 789203

Ion Ratio Lower Upper

49 100

128 49.7 24.0 72.0

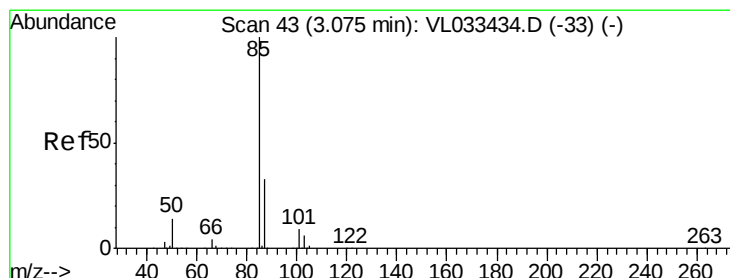
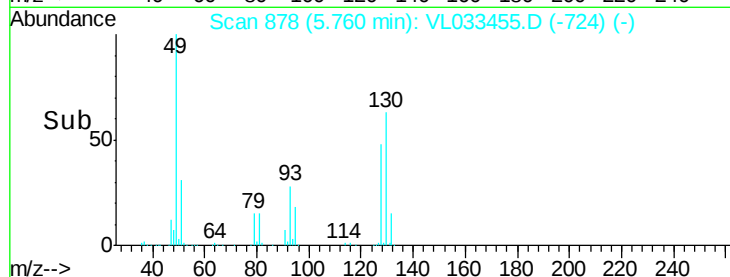
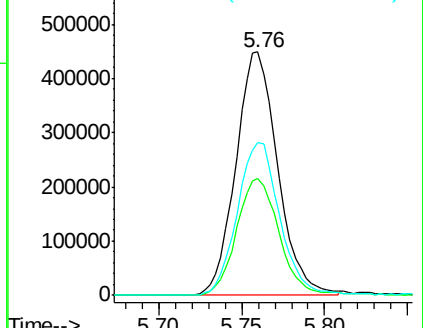
130 64.2 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.024 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.01 min

Lab File: VL033455.D

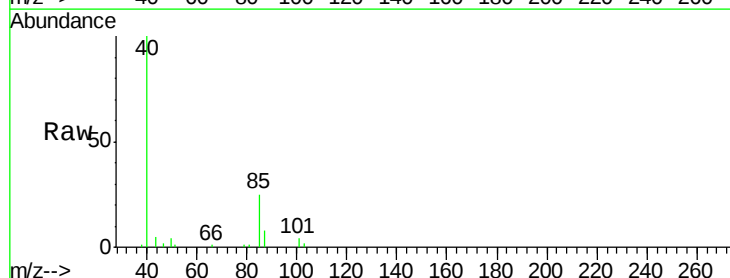
Acq: 26 Mar 2019 3:25

Tgt Ion: 85 Resp: 2754

Ion Ratio Lower Upper

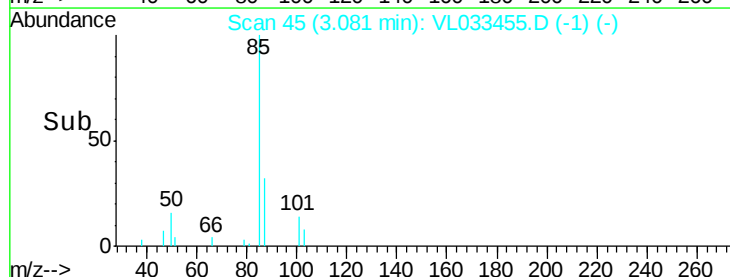
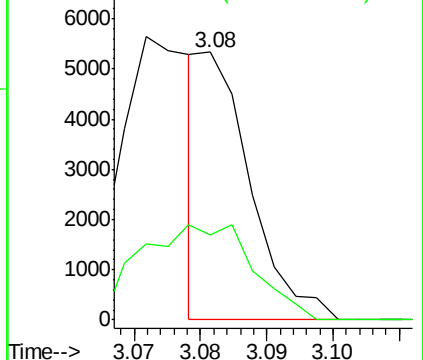
85 100

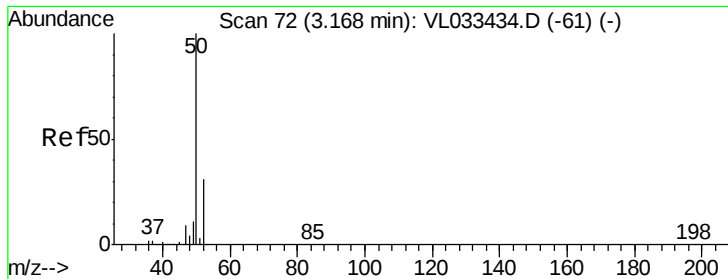
87 31.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.031 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033455.D

Acq: 26 Mar 2019 3:25

Instrument :

MSVOA_L

ClientSampleId :

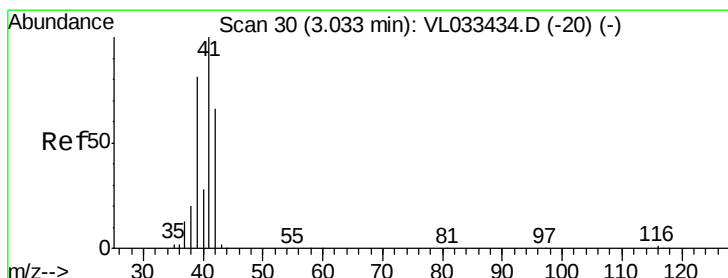
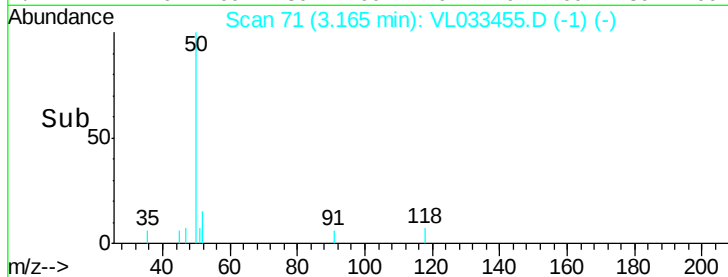
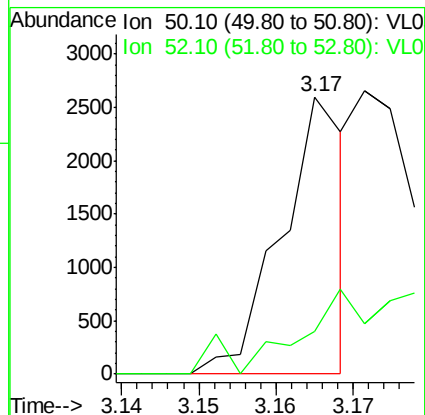
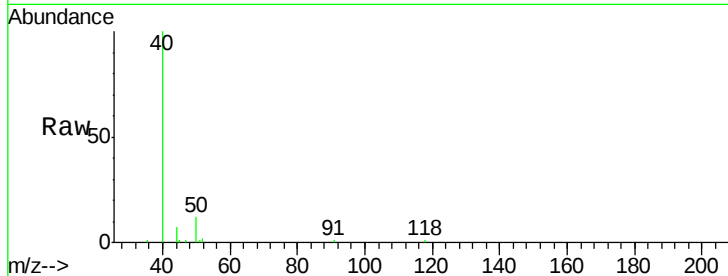
IA-3DL

Tgt Ion: 50 Resp: 1490

Ion Ratio Lower Upper

50 100

52 15.2 25.0 37.6#



#9

Propene

Concen: 0.072 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033455.D

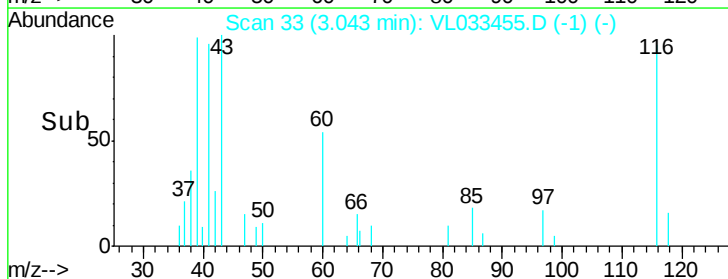
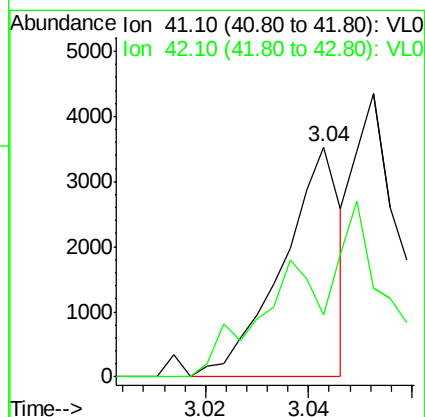
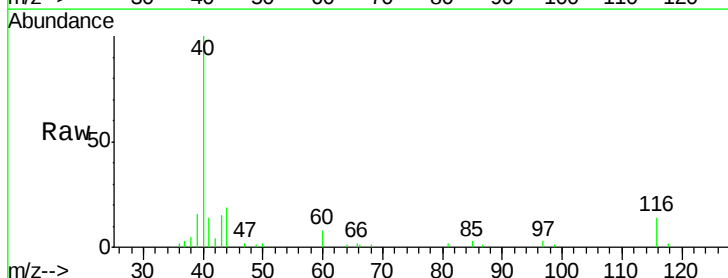
Acq: 26 Mar 2019 3:25

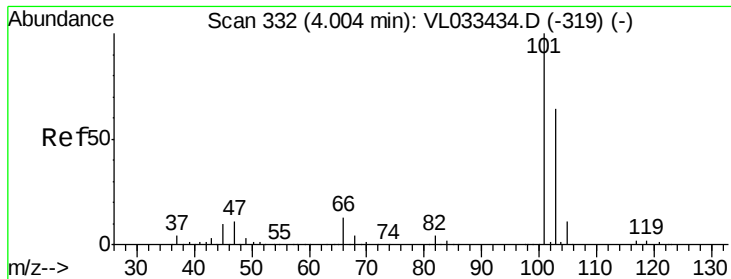
Tgt Ion: 41 Resp: 2756

Ion Ratio Lower Upper

41 100

42 0.0 53.9 80.9#

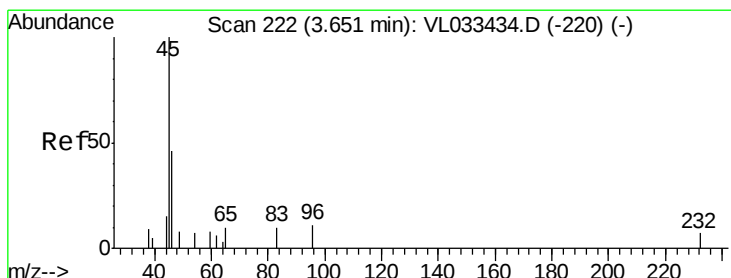
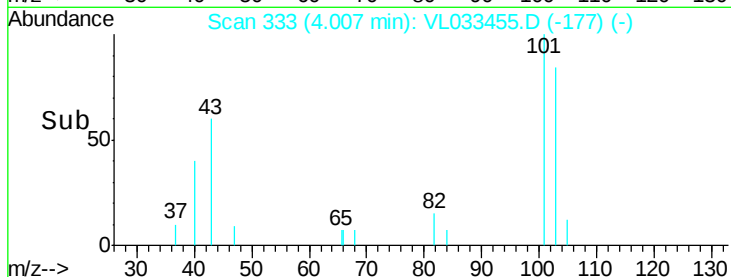
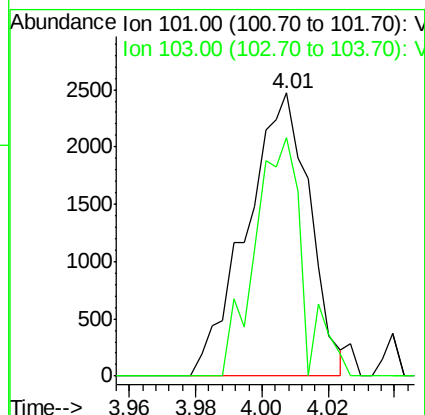
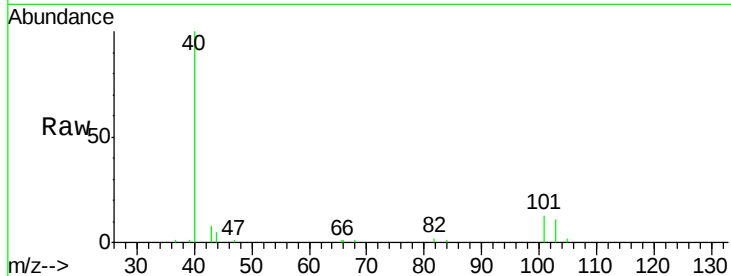




#11
 Trichlorofluoromethane
 Concen: 0.023 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033455.D
 Acq: 26 Mar 2019 3:25

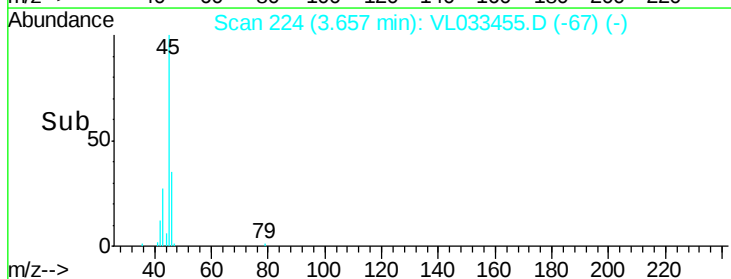
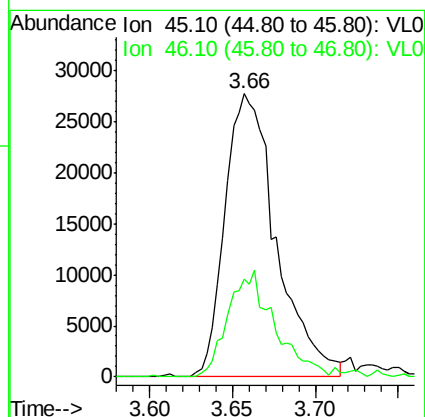
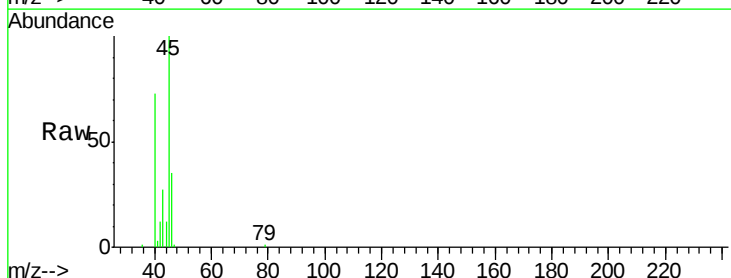
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL

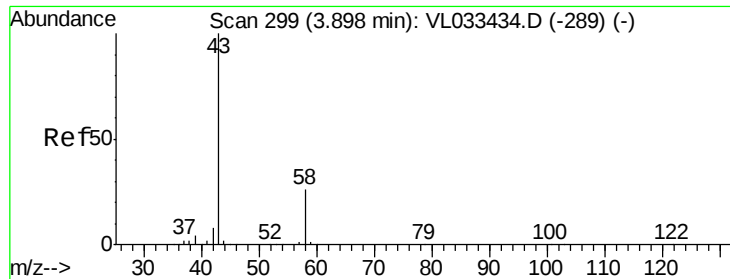
Tgt Ion:101 Resp: 3266
 Ion Ratio Lower Upper
 101 100
 103 84.1 51.3 76.9#



#13
 Ethanol
 Concen: 6.623 ppbv
 RT: 3.66 min Scan# 224
 Delta R.T. 0.01 min
 Lab File: VL033455.D
 Acq: 26 Mar 2019 3:25

Tgt Ion: 45 Resp: 59629
 Ion Ratio Lower Upper
 45 100
 46 34.5 25.4 101.8





#15

Acetone

Concen: 3.179 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033455.D

Acq: 26 Mar 2019 3:25

Instrument :

MSVOA_L

ClientSampled :

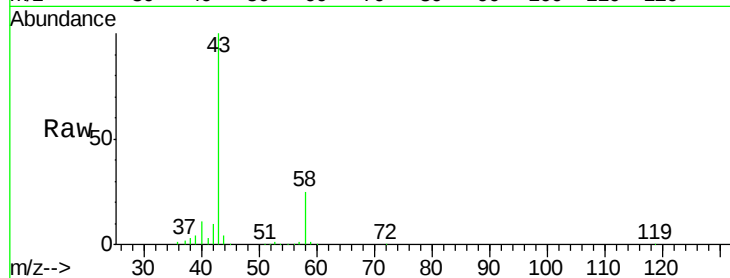
IA-3DL

Tgt Ion: 43 Resp: 301675

Ion Ratio Lower Upper

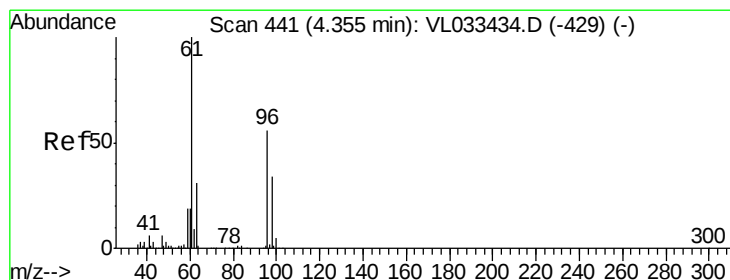
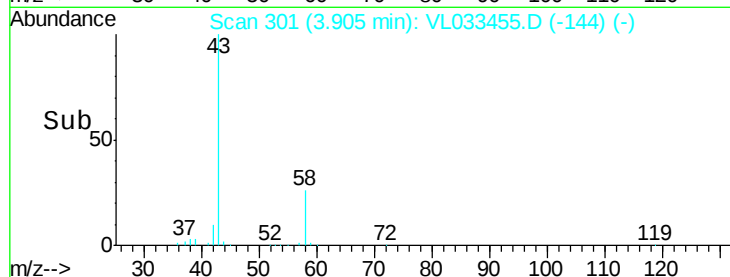
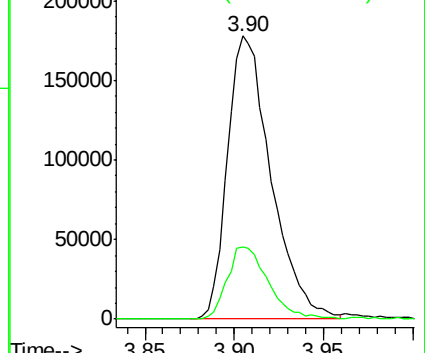
43 100

58 24.6 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.043 ppbv

RT: 4.38 min Scan# 450

Delta R.T. 0.03 min

Lab File: VL033455.D

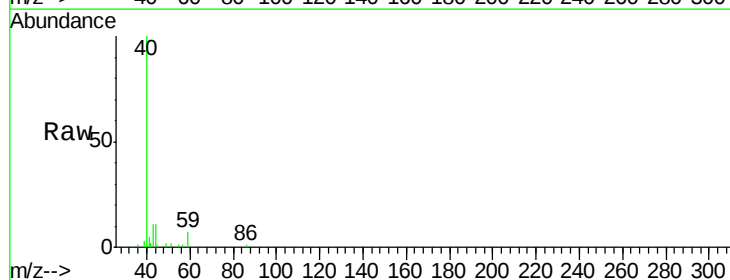
Acq: 26 Mar 2019 3:25

Tgt Ion: 59 Resp: 742

Ion Ratio Lower Upper

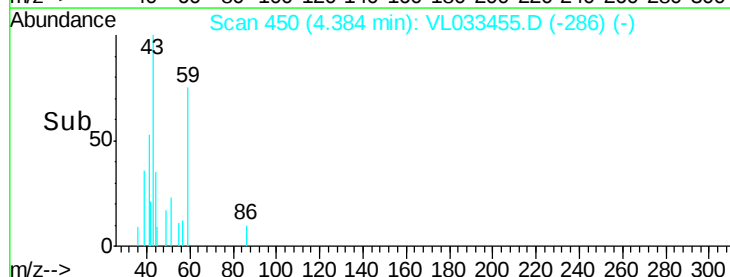
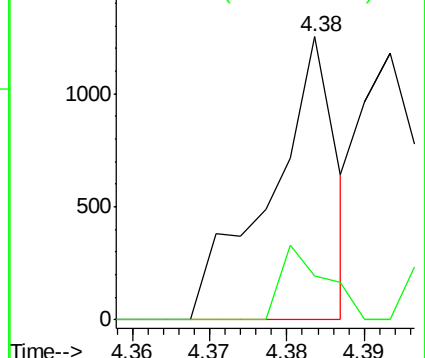
59 100

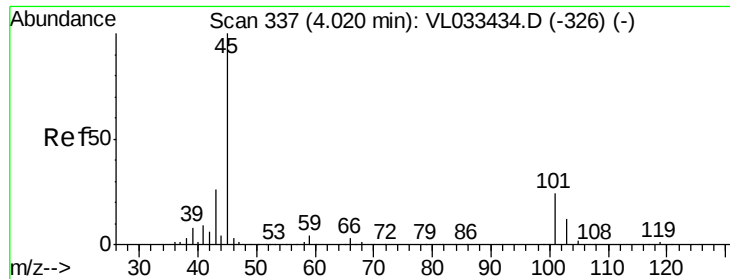
57 0.0 7.8 11.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 0.172 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL033455.D

Acq: 26 Mar 2019 3:25

Instrument :

MSVOA_L

ClientSampleId :

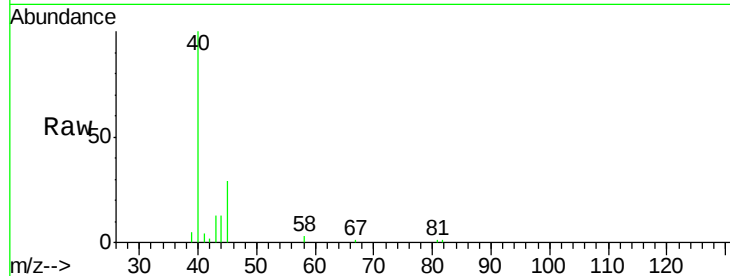
IA-3DL

Tgt Ion: 45 Resp: 10344

Ion Ratio Lower Upper

45 100

58 714.3 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.04

6000

5000

4000

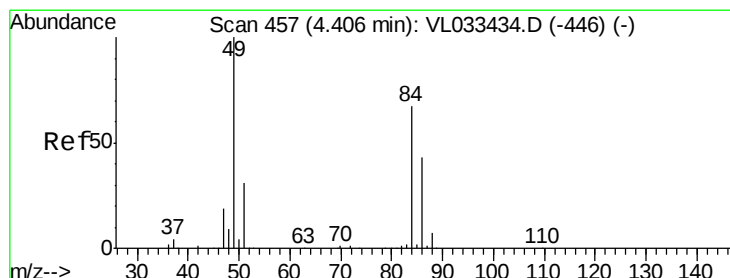
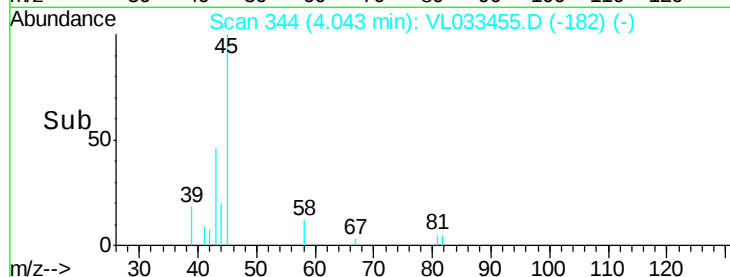
3000

2000

1000

0

Time-->



#20

Methylene Chloride

Concen: 0.184 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033455.D

Acq: 26 Mar 2019 3:25

Tgt Ion: 84 Resp: 7426

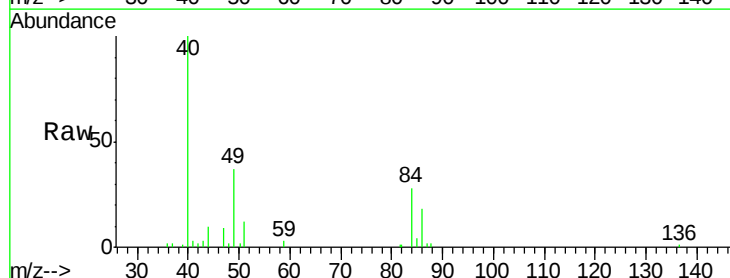
Ion Ratio Lower Upper

84 100

49 126.1 120.0 180.0

51 36.2 36.7 55.1#

86 61.6 51.9 77.9



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

10000

8000

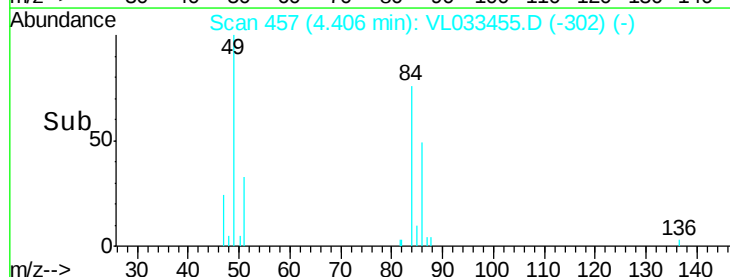
6000

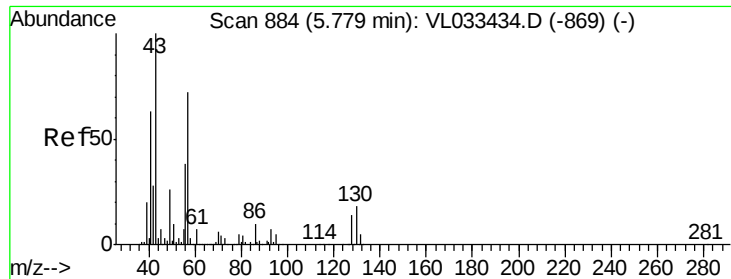
4000

2000

0

Time-->

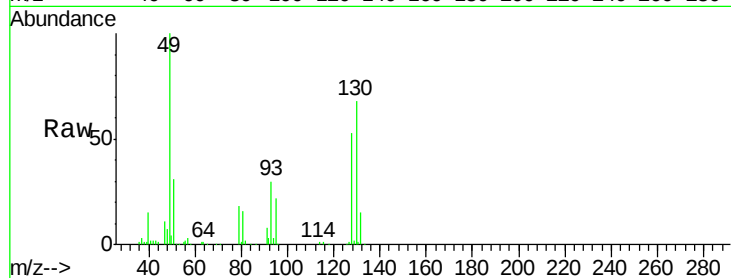




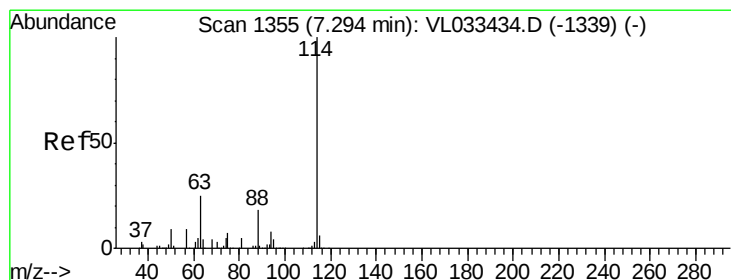
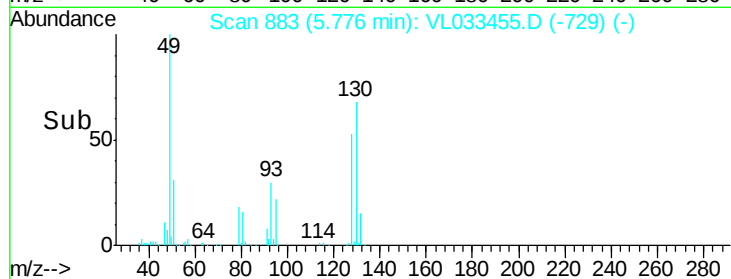
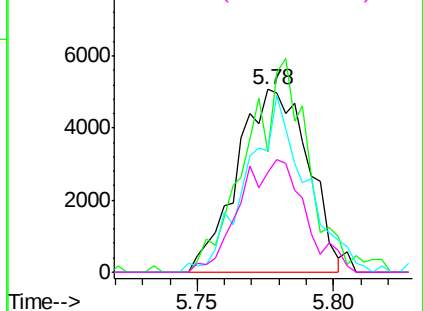
#26
Hexane
Concen: 0.117 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033455.D
Acq: 26 Mar 2019 3:25

Instrument :
MSVOA_L
ClientSampleId :
IA-3DL

Tgt Ion: 57 Resp: 9154
Ion Ratio Lower Upper
57 100
41 102.9 70.7 106.1
43 82.4 182.6 274.0#
56 56.7 42.0 63.0

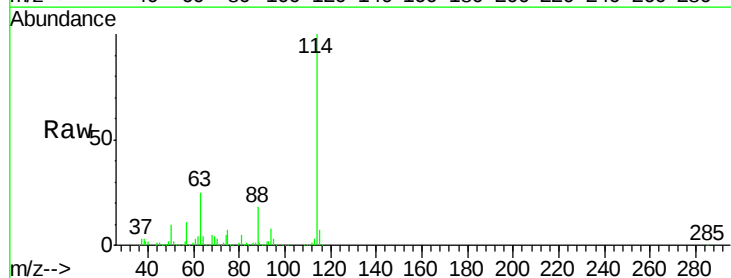


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

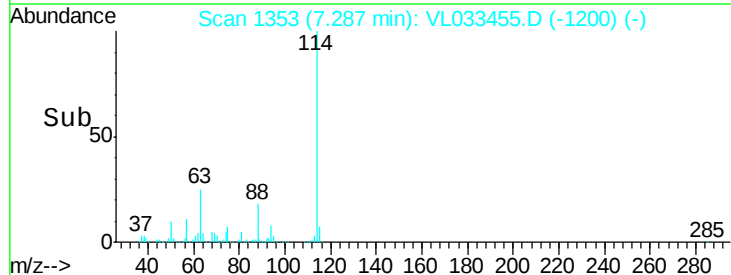
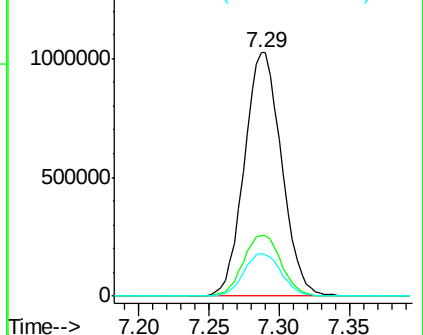


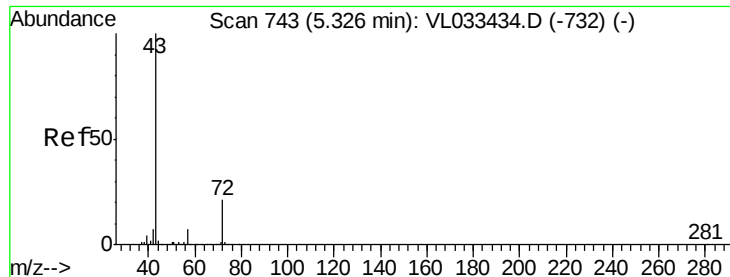
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033455.D
Acq: 26 Mar 2019 3:25

Tgt Ion: 114 Resp: 1899631
Ion Ratio Lower Upper
114 100
63 25.5 21.5 32.3
88 17.7 14.5 21.7



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

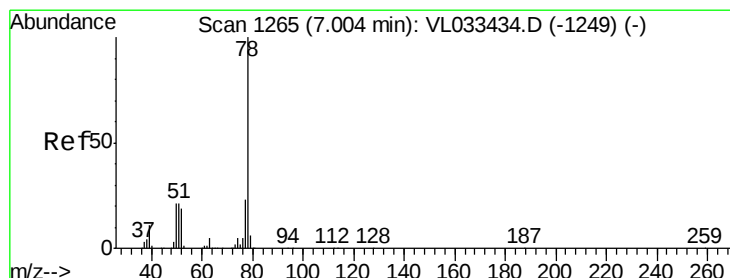
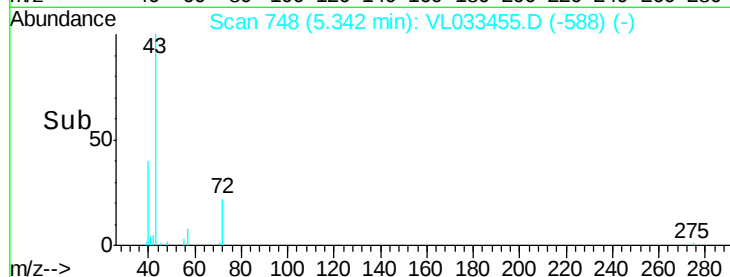
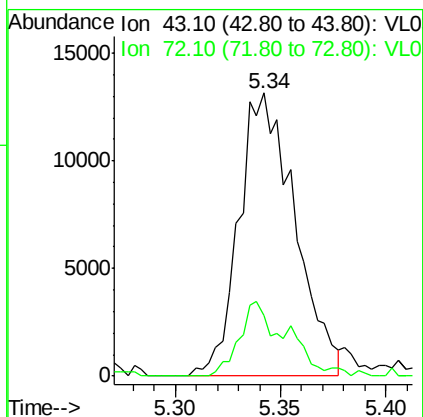
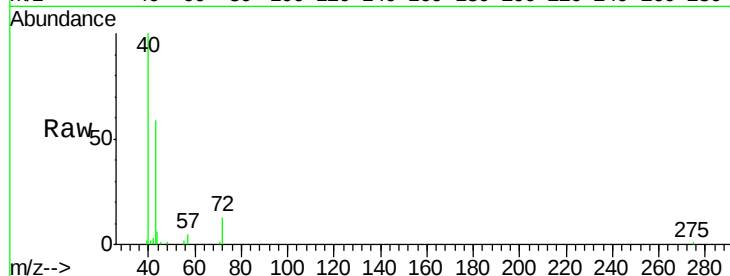




#34
2-Butanone
Concen: 0.212 ppbv
RT: 5.34 min Scan# 748
Delta R.T. 0.02 min
Lab File: VL033455.D
Acq: 26 Mar 2019 3:25

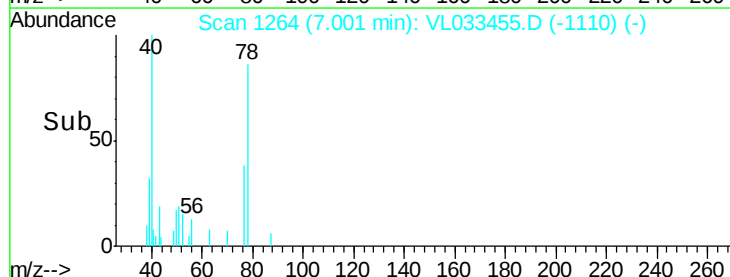
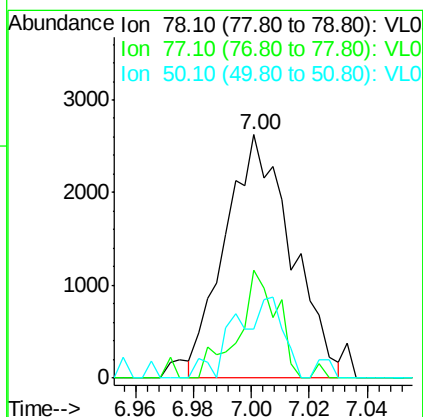
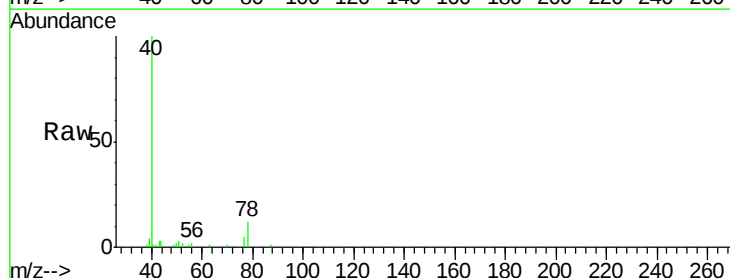
Instrument :
MSVOA_L
ClientSampled :
IA-3DL

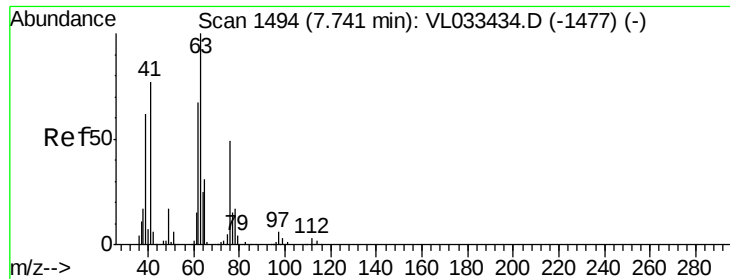
Tgt Ion: 43 Resp: 24172
Ion Ratio Lower Upper
43 100
72 23.1 17.4 26.2



#36
Benzene
Concen: 0.026 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033455.D
Acq: 26 Mar 2019 3:25

Tgt Ion: 78 Resp: 4154
Ion Ratio Lower Upper
78 100
77 47.2 18.1 27.1#
50 21.4 16.7 25.1





#39

1,2-Dichloropropane

Concen: 7.734 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033455.D

Acq: 26 Mar 2019 3:25

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

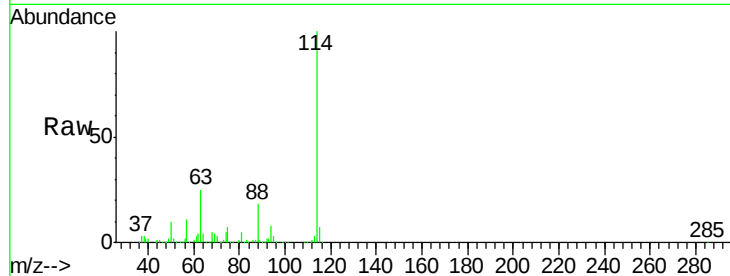
Tgt Ion: 63 Resp: 482875

Ion Ratio Lower Upper

63 100

41 0.0 61.2 91.8#

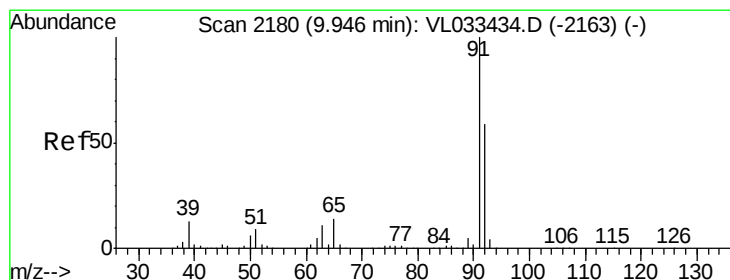
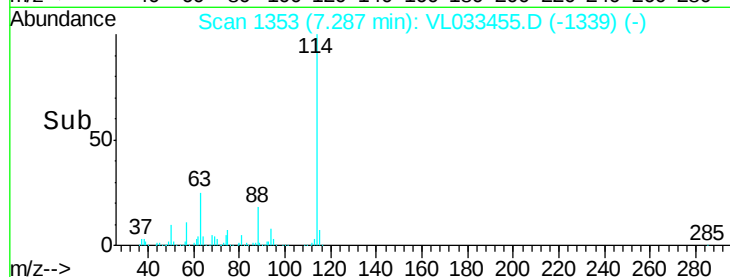
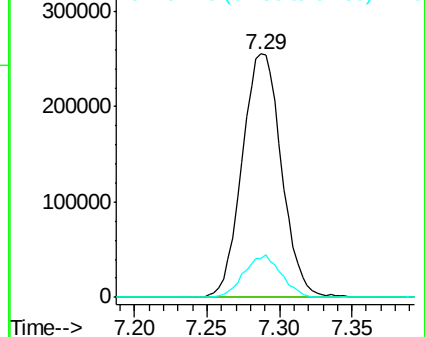
62 16.1 54.0 81.0#



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



#53

Toluene

Concen: 0.213 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033455.D

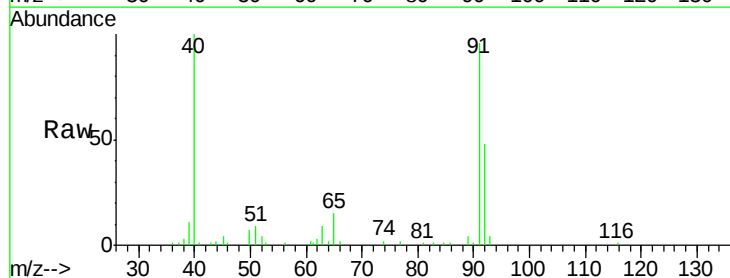
Acq: 26 Mar 2019 3:25

Tgt Ion: 91 Resp: 39413

Ion Ratio Lower Upper

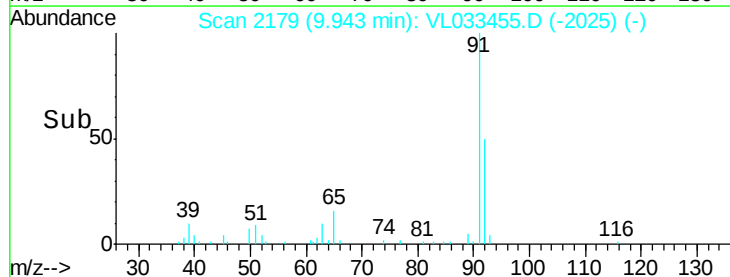
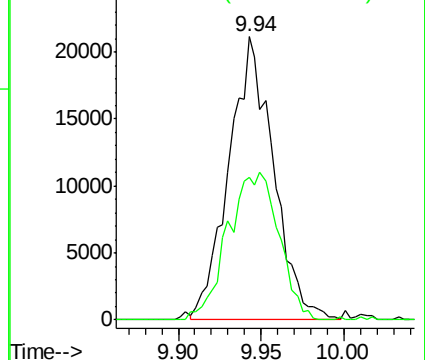
91 100

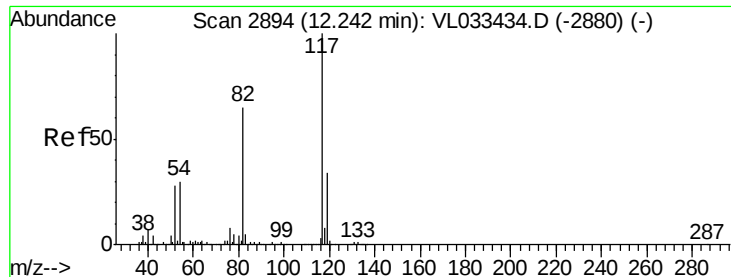
92 60.0 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

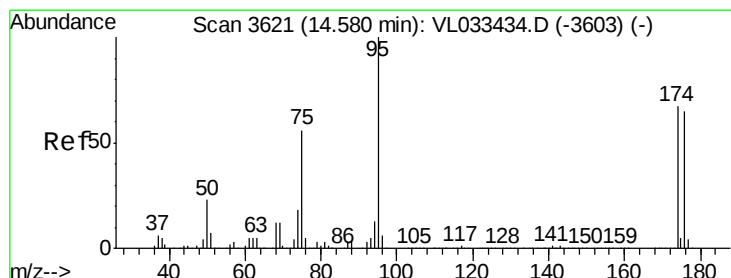
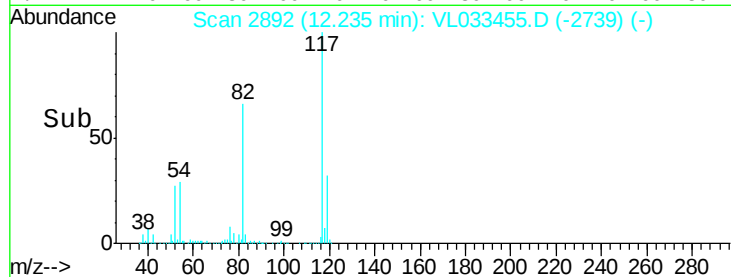
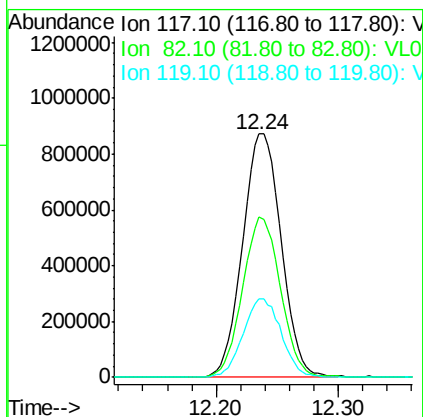
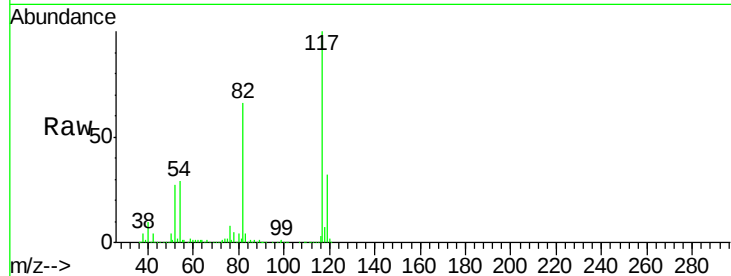




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033455.D
Acq: 26 Mar 2019 3:25

Instrument :
MSVOA_L
ClientSampleId :
IA-3DL

Tgt Ion: 117 Resp: 1906535
Ion Ratio Lower Upper
117 100
82 65.1 51.5 77.3
119 32.0 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.705 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033455.D
Acq: 26 Mar 2019 3:25

Tgt Ion: 95 Resp: 1450568
Ion Ratio Lower Upper
95 100
174 67.9 52.9 79.3
175 4.8 3.8 5.6

