

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050219\
 Data File : VL033633.D
 Acq On : 2 May 2019 18:24
 Operator : SY/AP
 Sample : K2628-04DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-4DL

Quant Time: May 03 02:29:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu May 02 06:29:02 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	968685	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2307039	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2572012	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2101105	10.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.30%

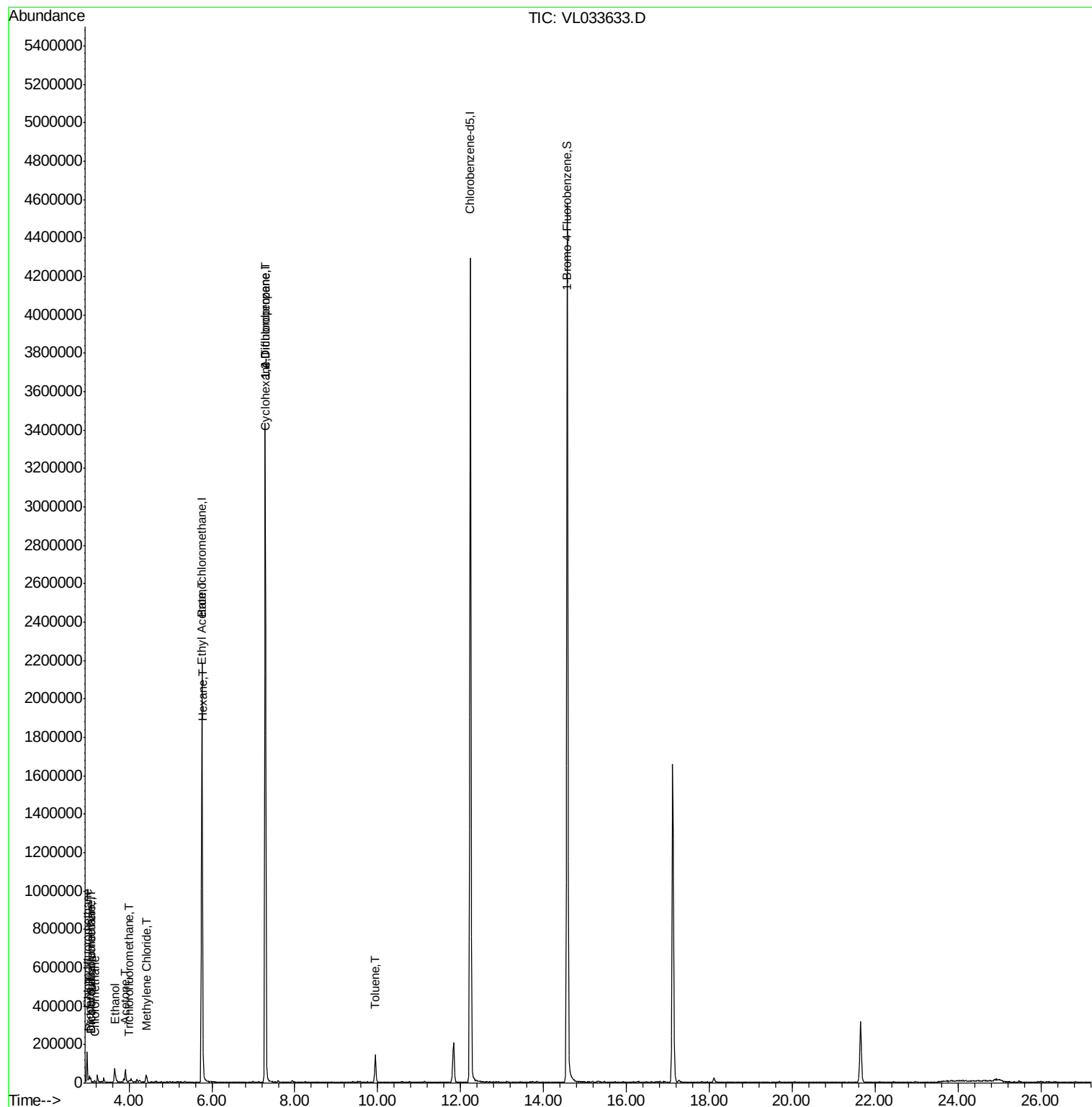
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	13800	0.095	ppbv	98
3) Chlorodifluoromethane	2.99	51	92252	0.797	ppbv #	61
4) Chloromethane	3.17	50	3819	0.061	ppbv	97
8) Dichlorotetrafluoroethane	3.07	85	13800	0.087	ppbv #	15
9) Propene	3.05	41	3608	0.109	ppbv	87
11) Trichlorofluoromethane	4.00	101	4137	0.024	ppbv	94
13) Ethanol	3.66	45	36921	2.455	ppbv #	39
15) Acetone	3.91	43	68286	0.579	ppbv	99
20) Methylene Chloride	4.41	84	10157	0.221	ppbv	92
25) Ethyl Acetate	5.77	43	11920	0.053	ppbv #	86
26) Hexane	5.78	57	9515	0.101	ppbv #	43
30) Cyclohexane	7.27	84	2917	0.037	ppbv #	1
39) 1,2-Dichloropropane	7.28	63	606790	8.186	ppbv #	24
53) Toluene	9.94	91	101728	0.410	ppbv	94

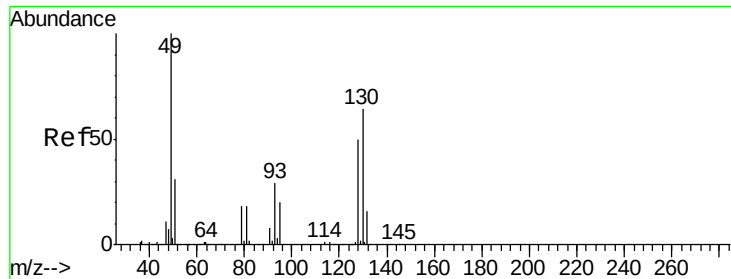
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 03 02:29:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL050119AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 06:29:02 2019
QLast Update : Thu May 02 06:29:02 2019
Response via : Initial Calibration

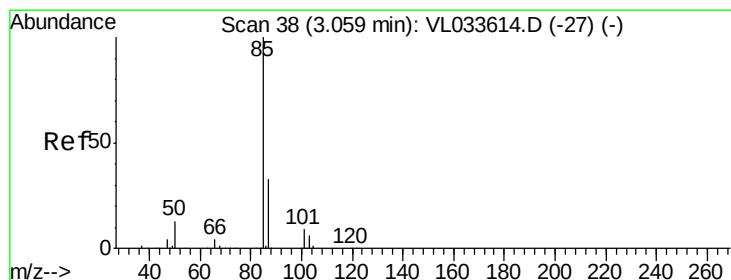
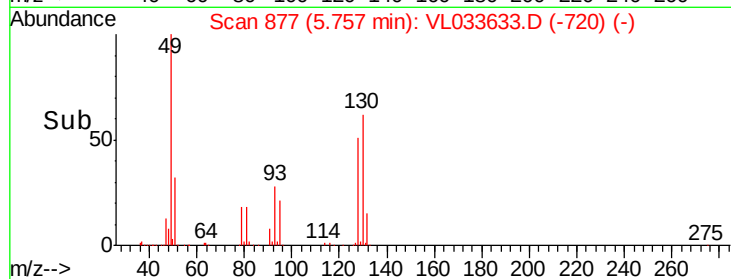
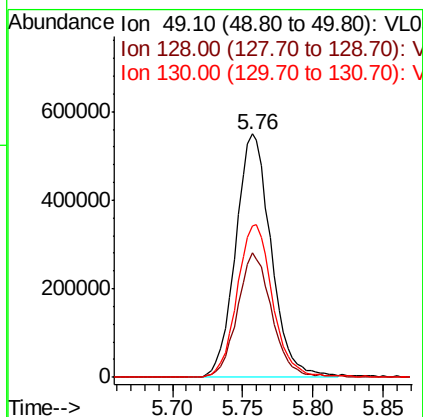
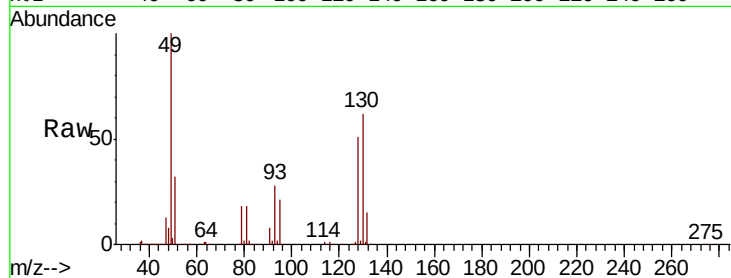




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 877
 Delta R.T. 0.00 min
 Lab File: VL033633.D
 Acq: 2 May 2019 18:24

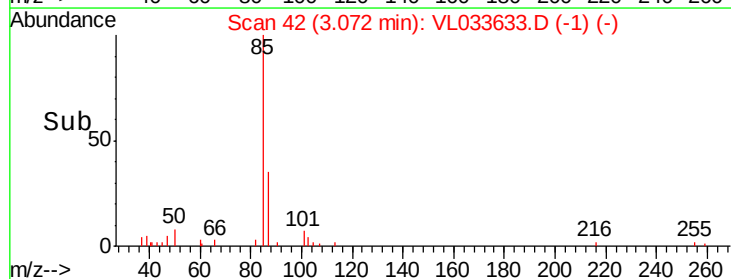
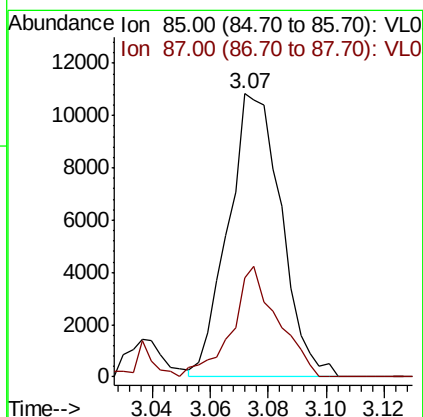
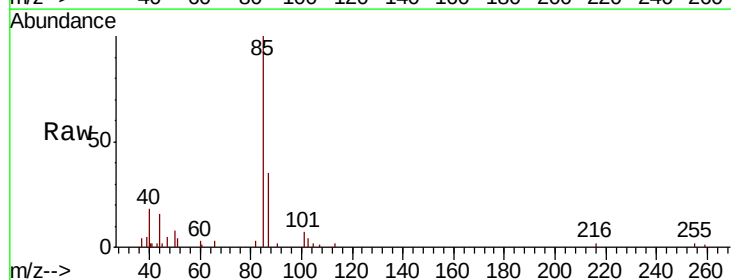
Instrument :
 MSVOA_L
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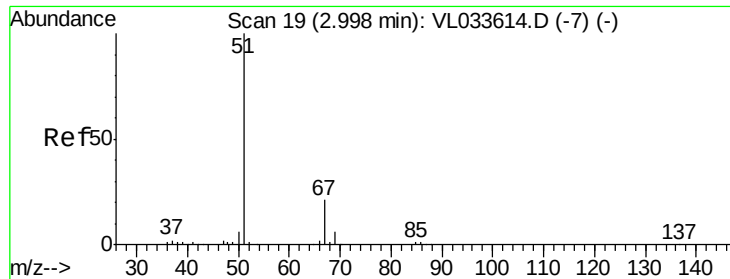
Tgt Ion:	49	Resp:	968685
Ion	Ratio	Lower	Upper
49	100		
128	49.7	25.0	75.0
130	63.5	31.9	95.9



#2
 Dichlorodifluoromethane
 Concen: 0.095 ppbv
 RT: 3.07 min Scan# 42
 Delta R.T. 0.01 min
 Lab File: VL033633.D
 Acq: 2 May 2019 18:24

Tgt Ion:	85	Resp:	13800
Ion	Ratio	Lower	Upper
85	100		
87	34.8	26.8	40.2





#3

Chlorodifluoromethane

Concen: 0.797 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.01 min

Lab File: VL033633.D

Acq: 2 May 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

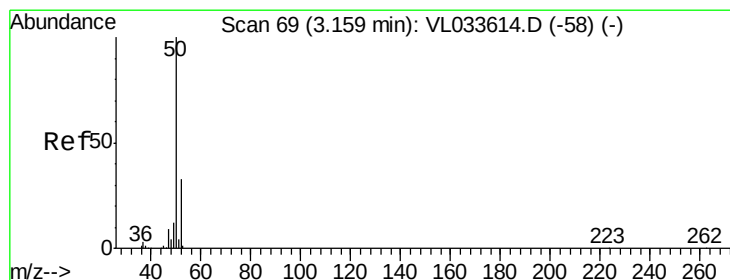
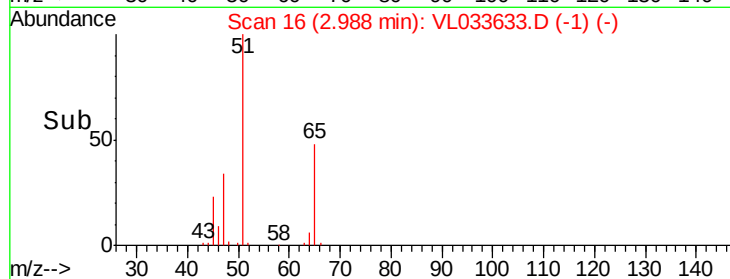
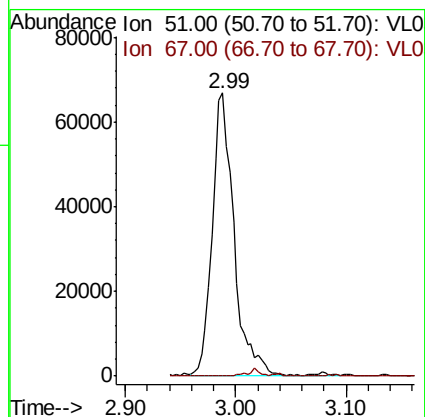
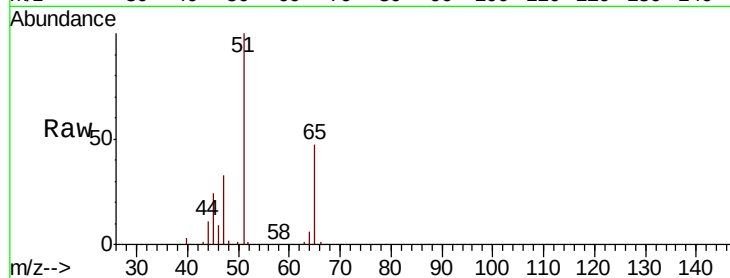
A-4DL

Tgt Ion: 51 Resp: 92252

Ion Ratio Lower Upper

51 100

67 1.7 15.6 23.4#



#4

Chloromethane

Concen: 0.061 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL033633.D

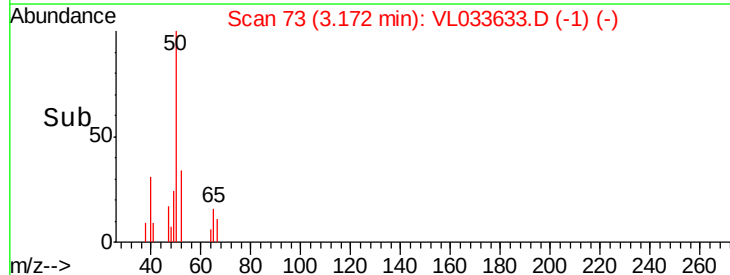
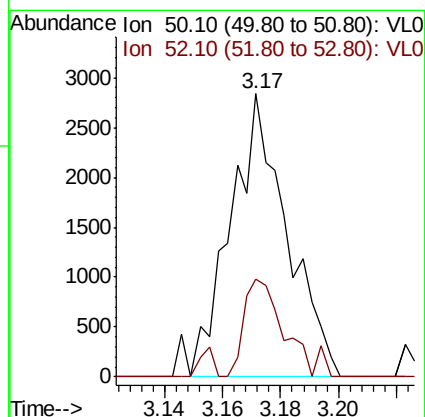
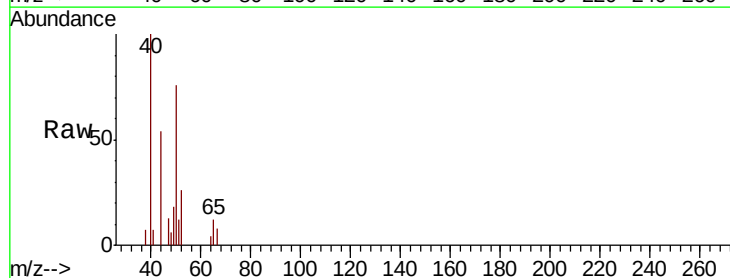
Acq: 2 May 2019 18:24

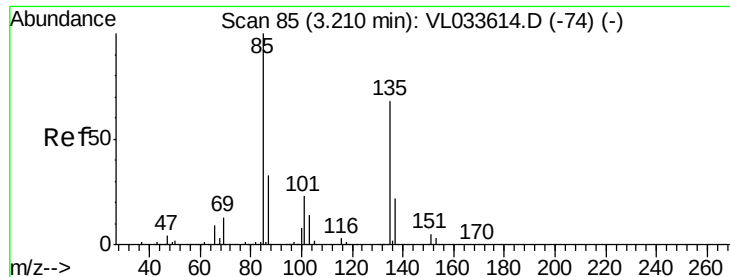
Tgt Ion: 50 Resp: 3819

Ion Ratio Lower Upper

50 100

52 34.4 26.0 39.0





#8

Dichlorotetrafluoroethane

Concen: 0.087 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.14 min

Lab File: VL033633.D

Acq: 2 May 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

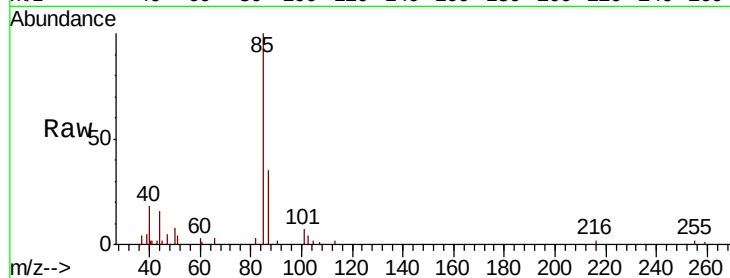
A-4DL

Tgt Ion: 85 Resp: 13800

Ion Ratio Lower Upper

85 100

135 0.0 55.0 82.6#

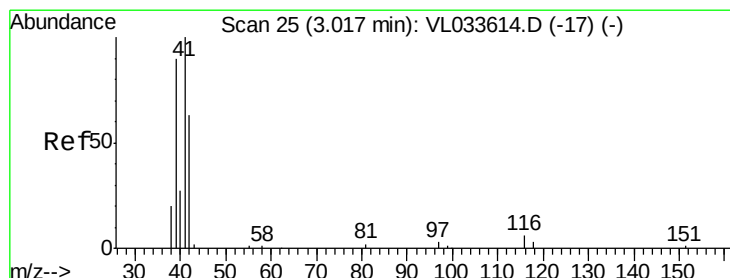
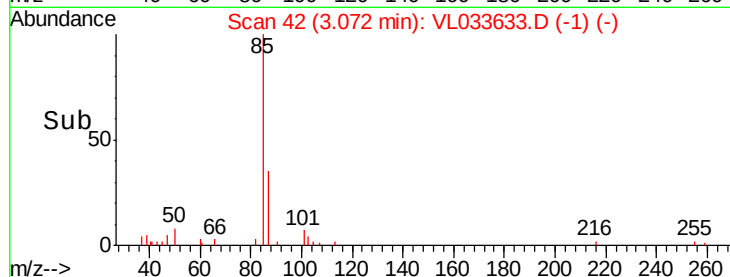


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

3.07

Time-->



#9

Propene

Concen: 0.109 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.03 min

Lab File: VL033633.D

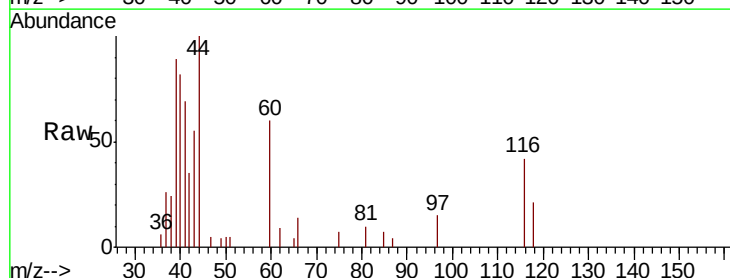
Acq: 2 May 2019 18:24

Tgt Ion: 41 Resp: 3608

Ion Ratio Lower Upper

41 100

42 70.4 66.0 99.0

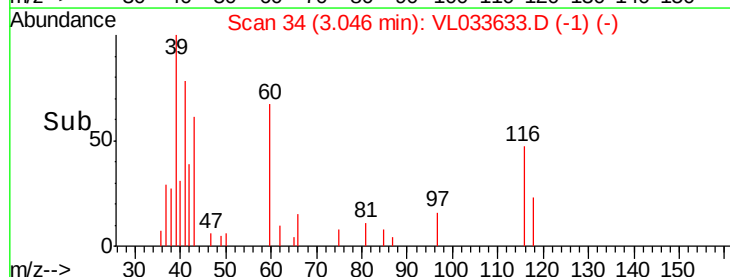


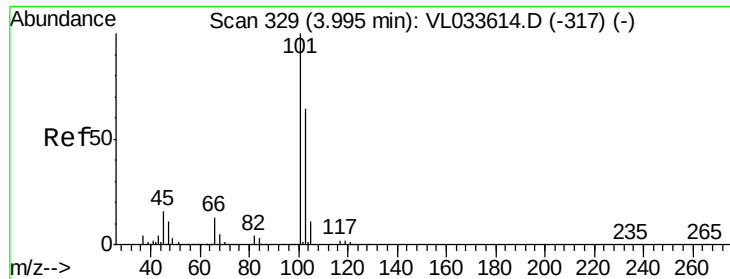
Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.05

Time-->

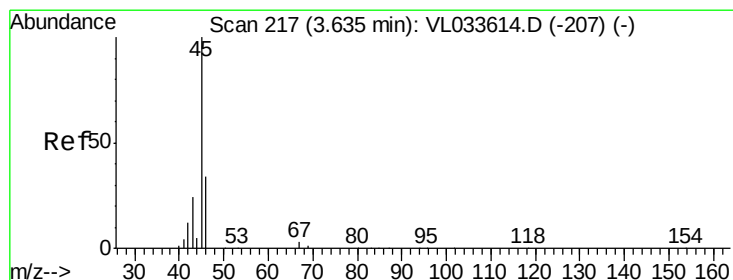
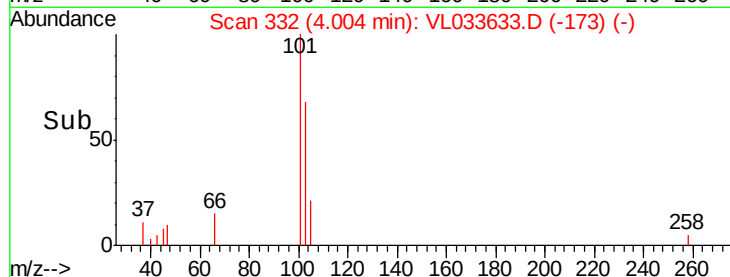
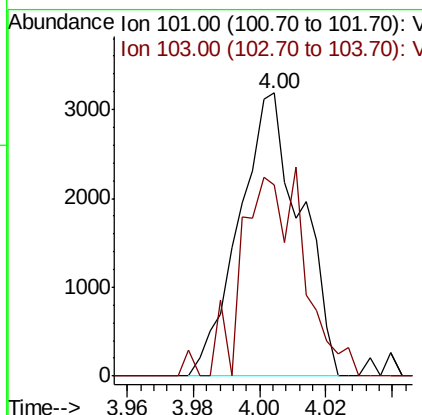
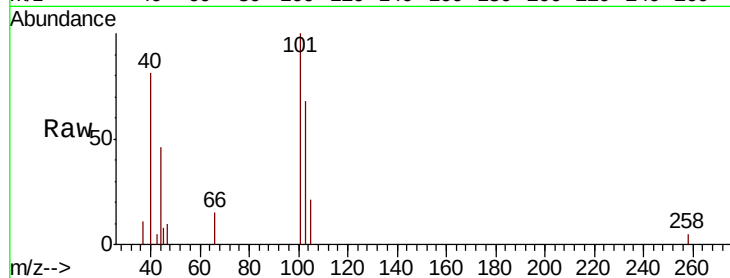




#11
 Trichlorofluoromethane
 Concen: 0.024 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VL033633.D
 Acq: 2 May 2019 18:24

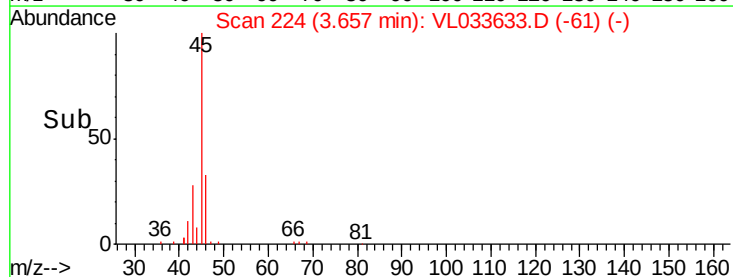
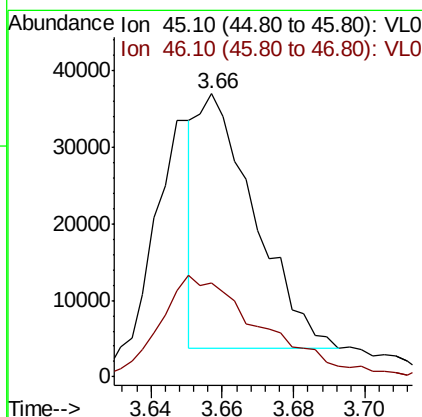
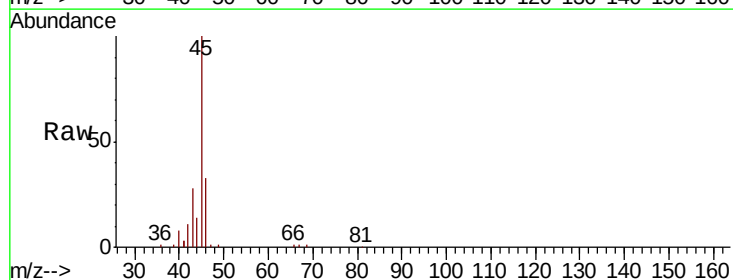
Instrument :
 MSVOA_L
 ClientSampleId :
 A-4DL

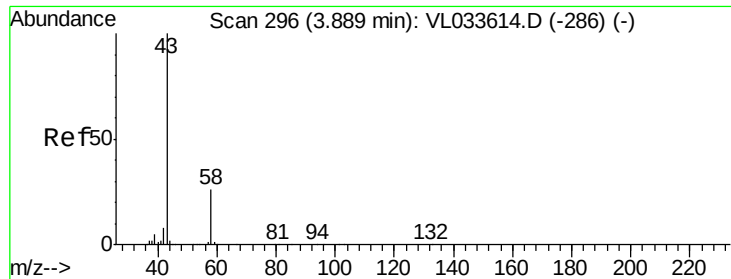
Tgt Ion:101 Resp: 4137
 Ion Ratio Lower Upper
 101 100
 103 59.6 51.2 76.8



#13
 Ethanol
 Concen: 2.455 ppbv
 RT: 3.66 min Scan# 224
 Delta R.T. 0.02 min
 Lab File: VL033633.D
 Acq: 2 May 2019 18:24

Tgt Ion: 45 Resp: 36921
 Ion Ratio Lower Upper
 45 100
 46 72.5 14.6 58.2#





#15

Acetone

Concen: 0.579 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.02 min

Lab File: VL033633.D

Acq: 2 May 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

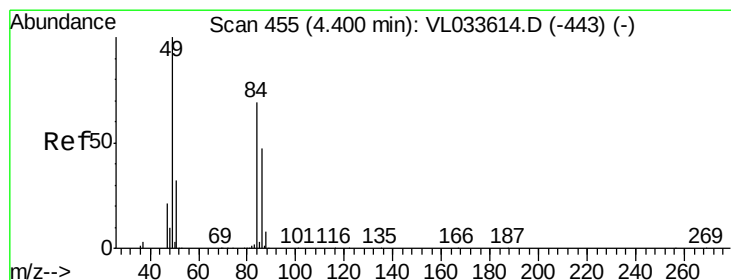
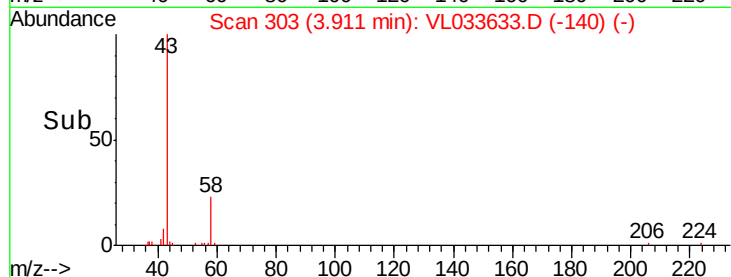
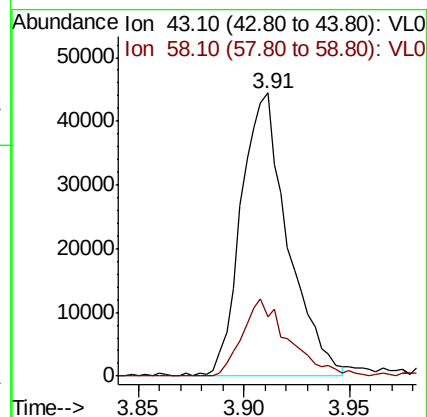
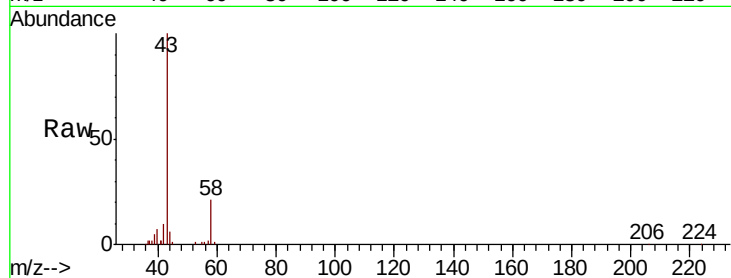
A-4DL

Tgt Ion: 43 Resp: 68286

Ion Ratio Lower Upper

43 100

58 26.8 21.2 31.8



#20

Methylene Chloride

Concen: 0.221 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.01 min

Lab File: VL033633.D

Acq: 2 May 2019 18:24

Tgt Ion: 84 Resp: 10157

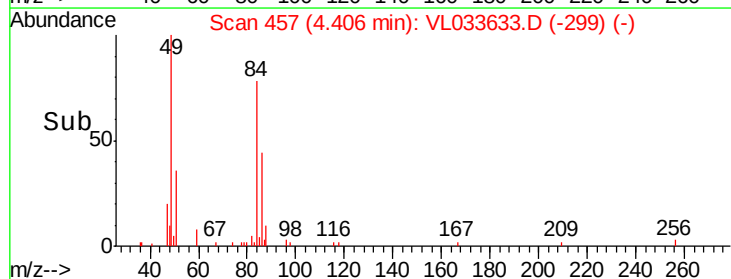
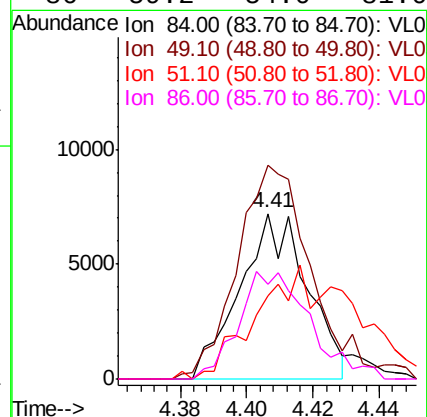
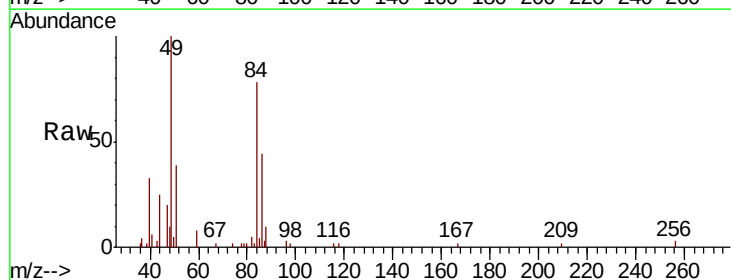
Ion Ratio Lower Upper

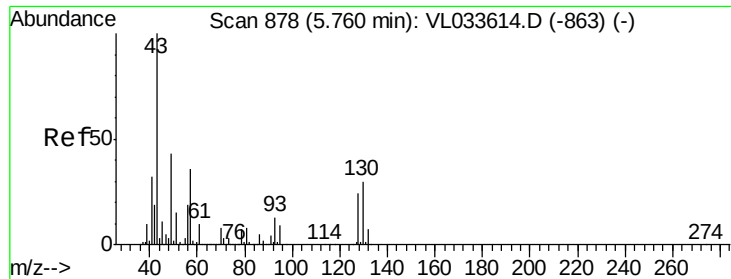
84 100

49 135.8 116.2 174.2

51 51.9 37.0 55.6

86 59.2 54.0 81.0

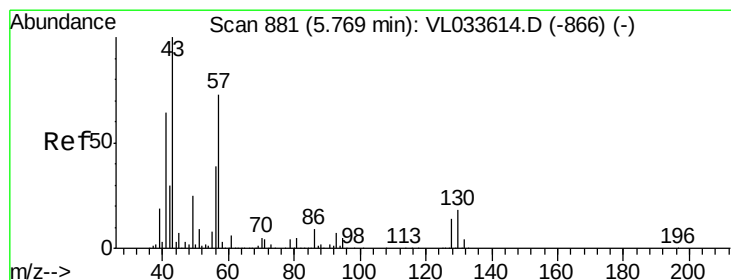
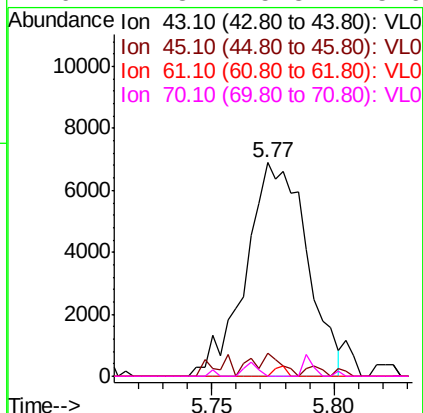
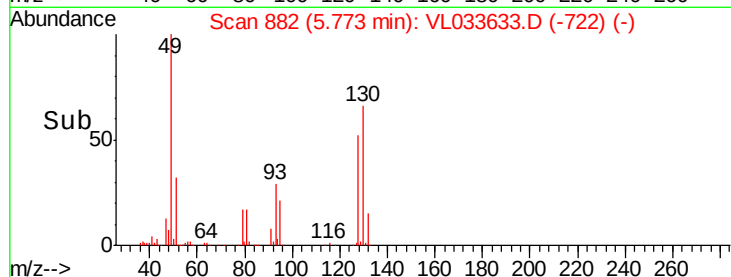
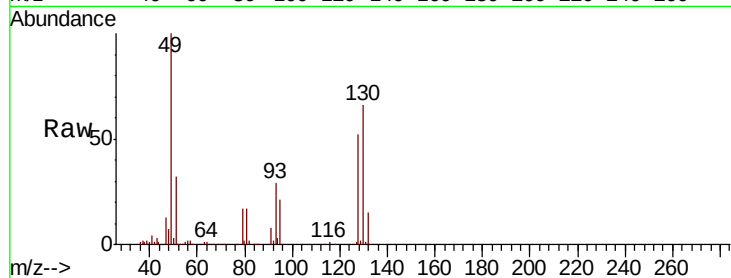




#25
Ethyl Acetate
Concen: 0.053 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033633.D
Acq: 2 May 2019 18:24

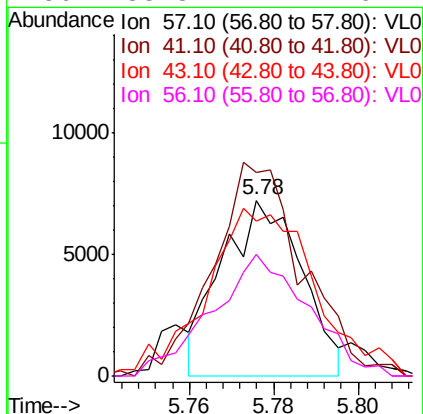
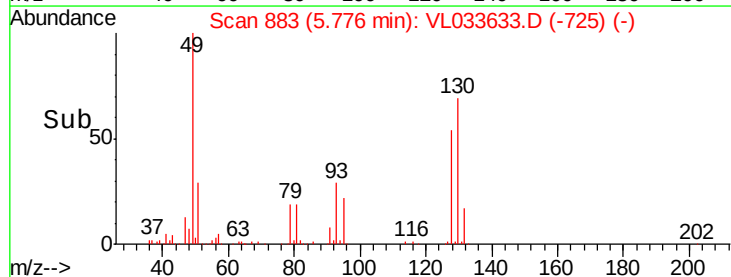
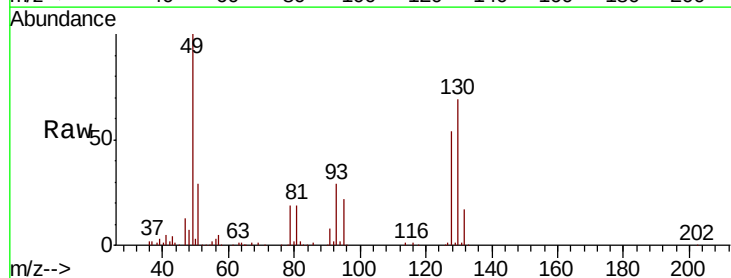
Instrument :
MSVOA_L
ClientSampleId :
A-4DL

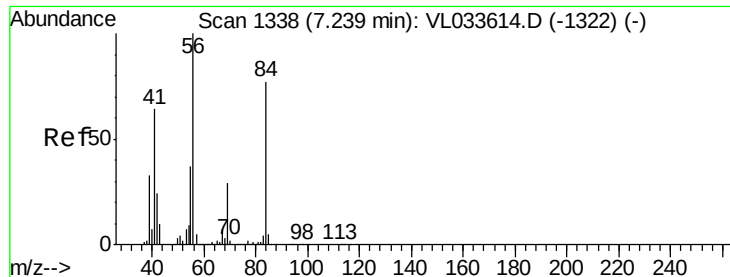
Tgt Ion:	43	Resp:	11920
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.1	12.1
61	0.0	7.5	11.3#
70	1.8	5.8	8.6#



#26
Hexane
Concen: 0.101 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033633.D
Acq: 2 May 2019 18:24

Tgt Ion:	57	Resp:	9515
Ion	Ratio	Lower	Upper
57	100		
41	138.5	70.6	106.0#
43	131.3	186.0	279.0#
56	83.8	42.7	64.1#

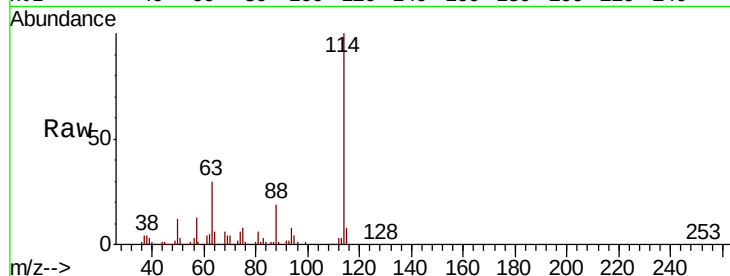




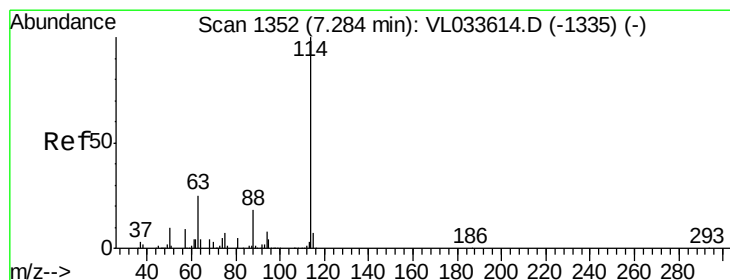
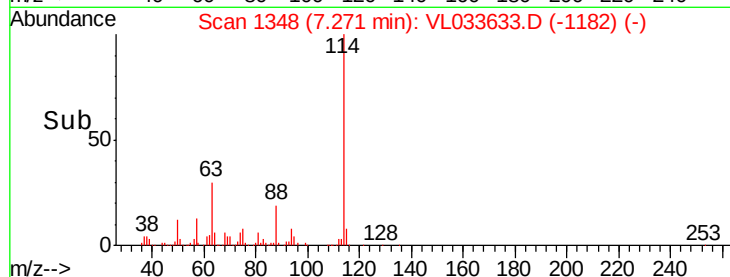
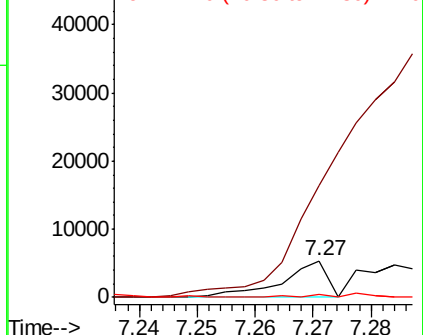
#30
Cyclohexane
Concen: 0.037 ppbv
RT: 7.27 min Scan# 1348
Delta R.T. 0.03 min
Lab File: VL033633.D
Acq: 2 May 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
A-4DL

Tgt Ion: 84 Resp: 2917
Ion Ratio Lower Upper
84 100
56 0.0 108.4 162.6#
41 10.7 67.0 100.4#

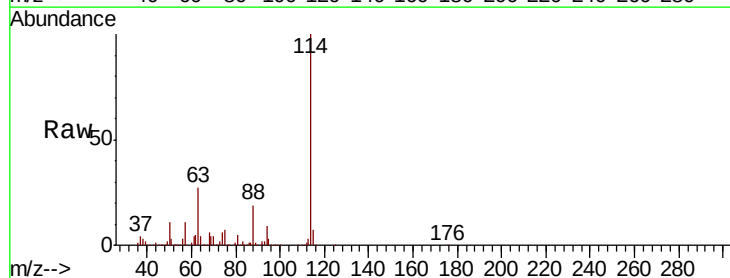


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

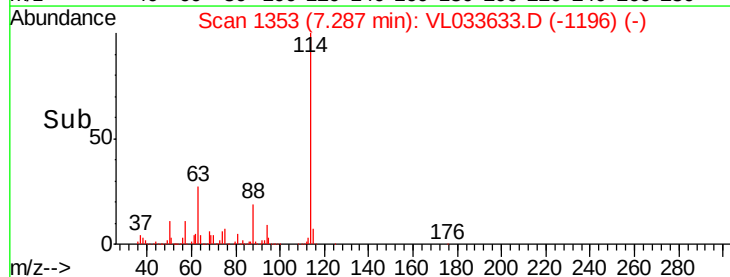
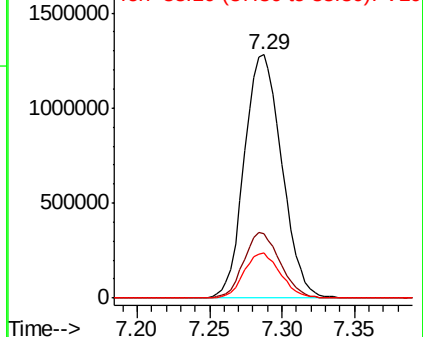


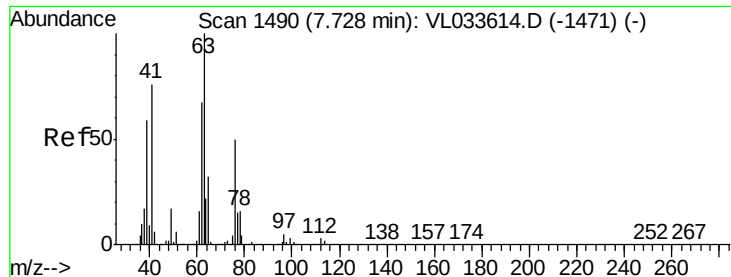
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL033633.D
Acq: 2 May 2019 18:24

Tgt Ion: 114 Resp: 2307039
Ion Ratio Lower Upper
114 100
63 26.4 21.1 31.7
88 18.0 14.2 21.4



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





#39

1,2-Dichloropropane

Concen: 8.186 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.44 min

Lab File: VL033633.D

Acq: 2 May 2019 18:24

Instrument :

MSVOA_L

ClientSampleId :

A-4DL

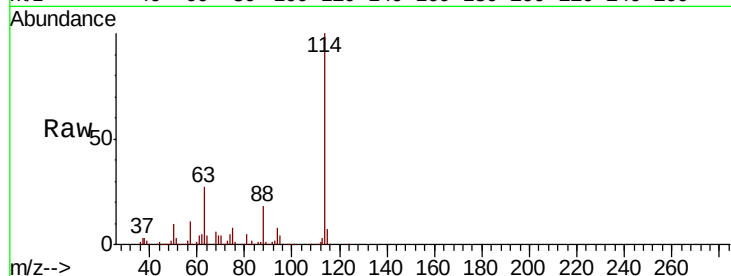
Tgt Ion: 63 Resp: 606790

Ion Ratio Lower Upper

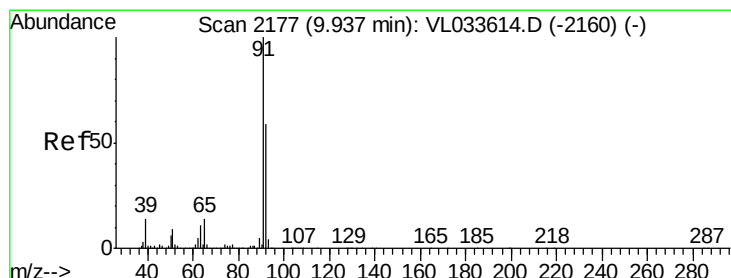
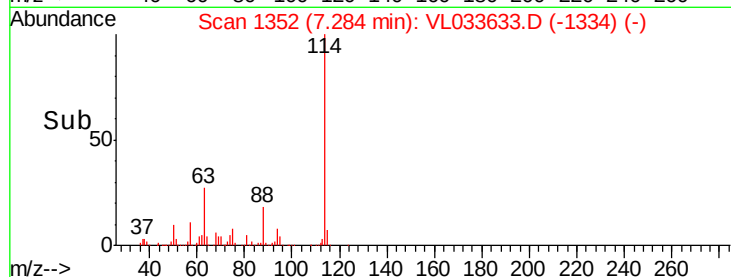
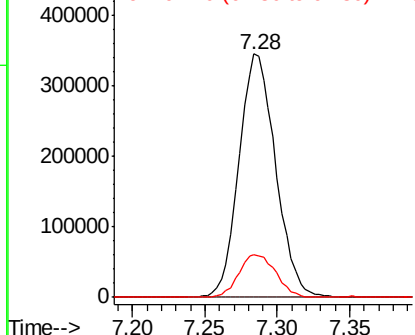
63 100

41 0.0 60.9 91.3#

62 17.4 53.3 79.9#



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: 0.410 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. 0.01 min

Lab File: VL033633.D

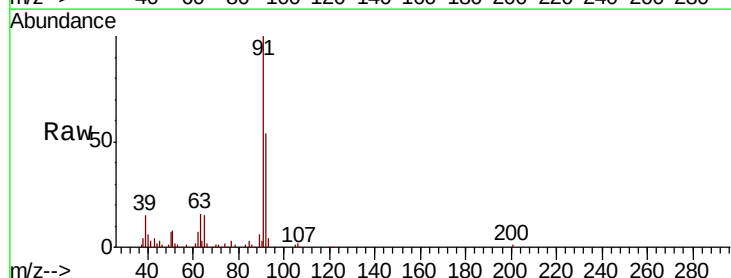
Acq: 2 May 2019 18:24

Tgt Ion: 91 Resp: 101728

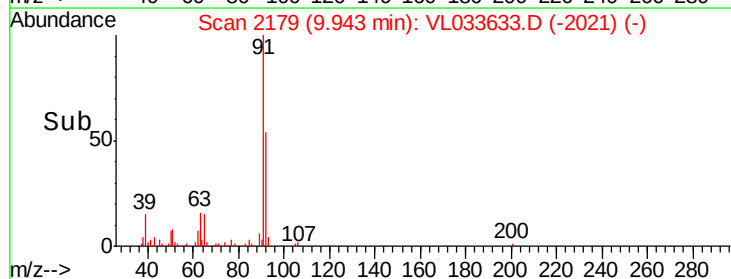
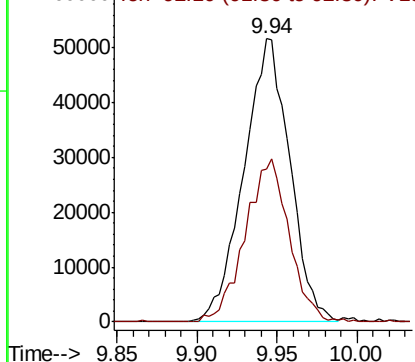
Ion Ratio Lower Upper

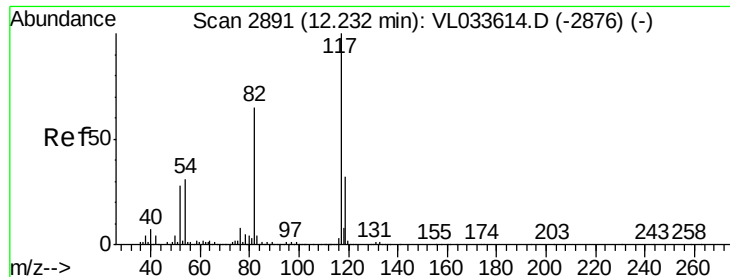
91 100

92 54.9 47.8 71.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0



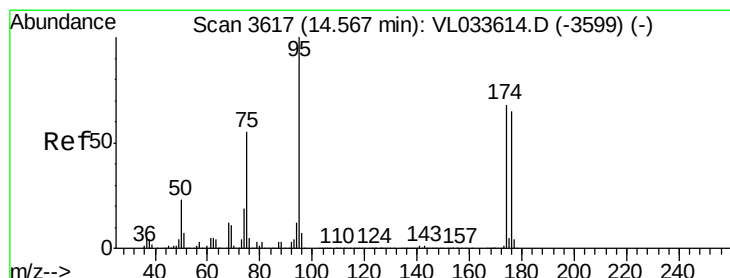
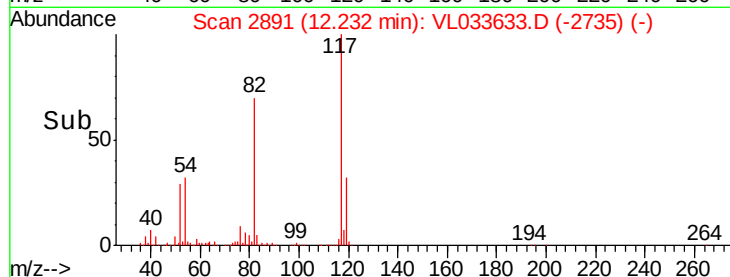
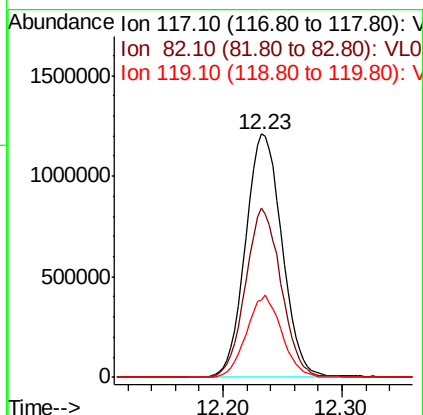
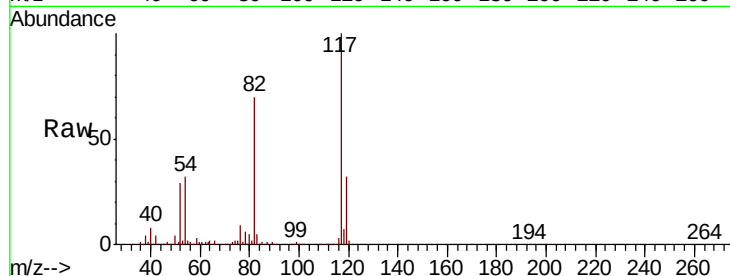


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. 0.00 min
Lab File: VL033633.D
Acq: 2 May 2019 18:24

Instrument :
MSVOA_L
ClientSampleId :
A-4DL

Tgt Ion: 117 Resp: 2572012

Ion	Ratio	Lower	Upper
117	100		
82	68.4	52.6	78.8
119	32.5	28.3	42.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.730 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. 0.01 min
Lab File: VL033633.D
Acq: 2 May 2019 18:24

Tgt Ion: 95 Resp: 2101105

Ion	Ratio	Lower	Upper
95	100		
174	66.8	53.9	80.9
175	4.7	4.0	6.0

