

Data File : VL033230.D
Acq On : 15 Feb 2019 13:35
Operator : SY/AP
Sample : K1483-10DL2 200X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 16 04:14:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	675935	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1506441	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1574911	10.00	ppbv	0.00

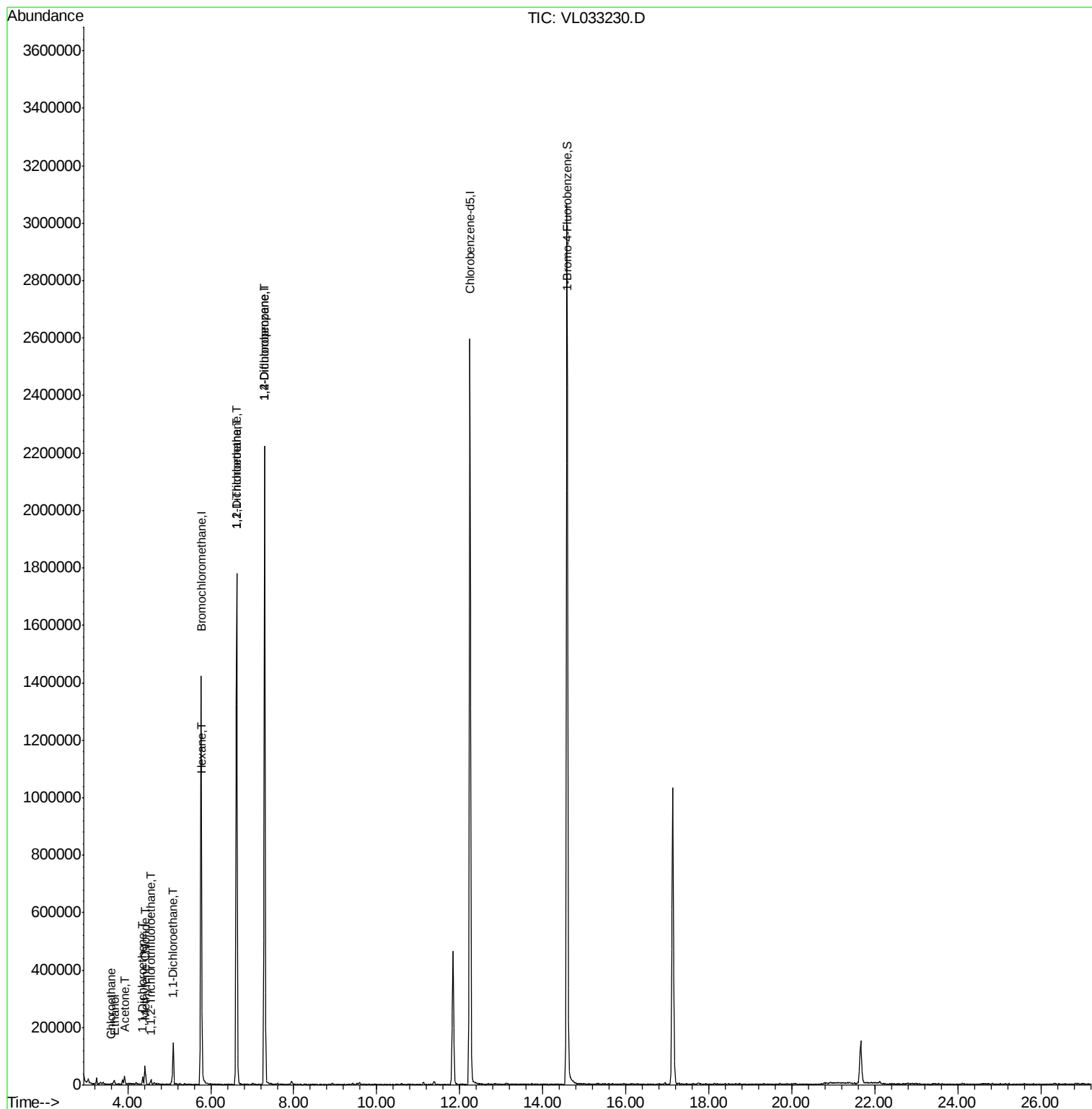
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1450540 11.96 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 119.60%

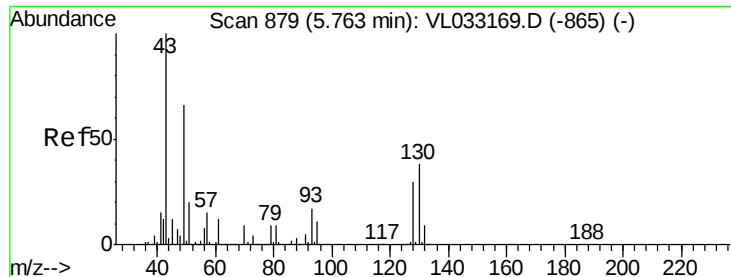
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Chloroethane	3.61	64	731	0.050	ppbv #	42
12) 1,1,2-Trichlorotrifluoroet	4.56	101	5852	0.081	ppbv	97
13) Ethanol	3.67	45	10999	0.839	ppbv	98
15) Acetone	3.92	43	12729	0.167	ppbv #	32
18) 1,1-Dichloroethene	4.36	96	6623	0.204	ppbv	81
20) Methylene Chloride	4.42	84	19978	0.660	ppbv #	84
24) 1,1-Dichloroethane	5.09	63	117517	1.259	ppbv	100
26) Hexane	5.79	57	5599	0.070	ppbv #	31
32) 1,1,1-Trichloroethane	6.62	97	1086051	8.007	ppbv	98
37) 1,2-Dichloroethane	6.62	62	79015	0.934	ppbv #	1
39) 1,2-Dichloropropane	7.29	63	422464	7.007	ppbv #	27

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

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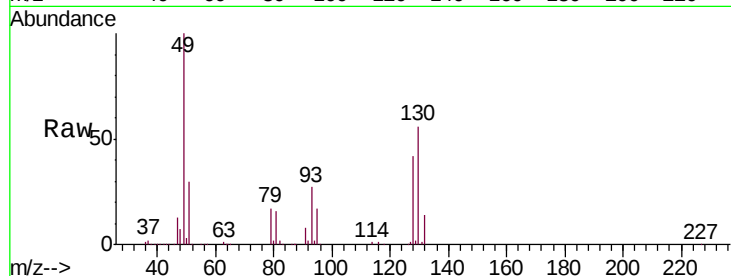
Tgt Ion: 49 Resp: 675935

Ion Ratio Lower Upper

49 100

128 44.7 23.6 71.0

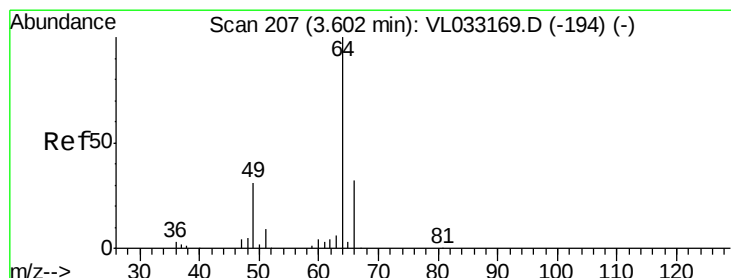
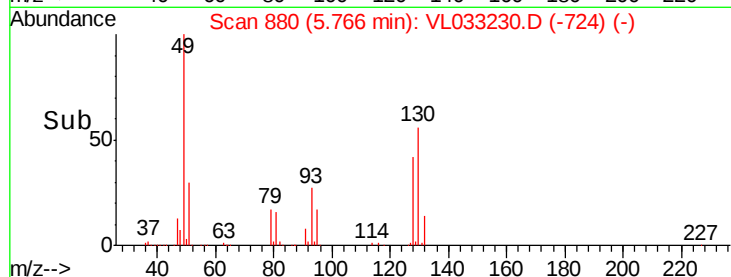
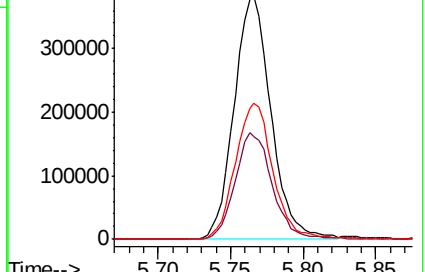
130 57.4 30.3 91.0



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



#7

Chloroethane

Concen: 0.050 ppbv

RT: 3.61 min Scan# 209

Delta R.T. 0.01 min

Lab File: VL033230.D

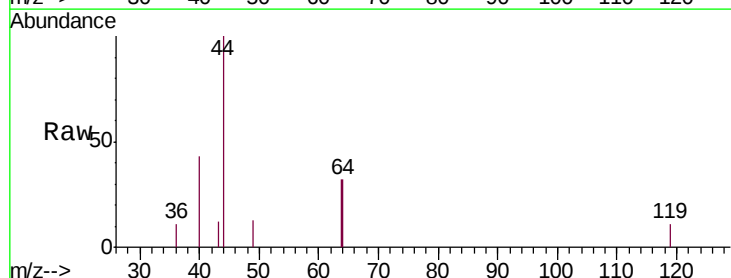
Acq: 15 Feb 2019 13:35

Tgt Ion: 64 Resp: 731

Ion Ratio Lower Upper

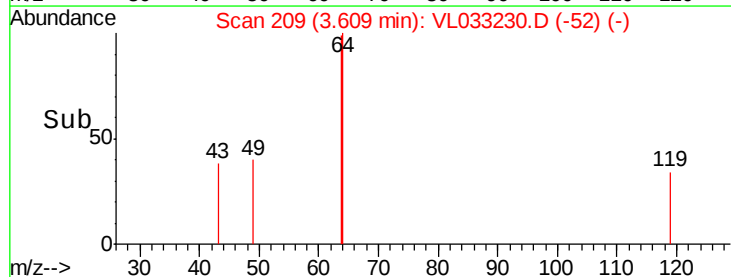
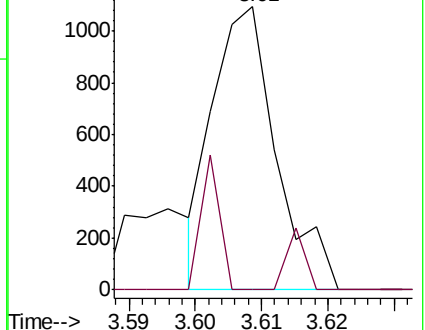
64 100

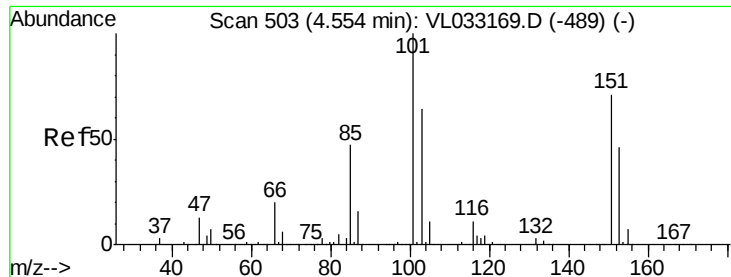
66 0.0 26.0 39.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

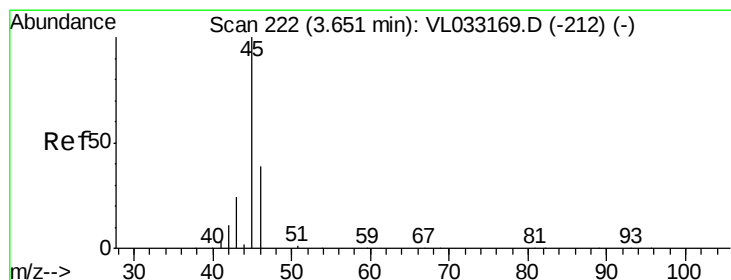
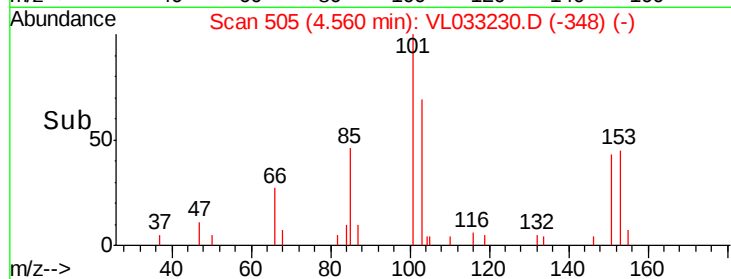
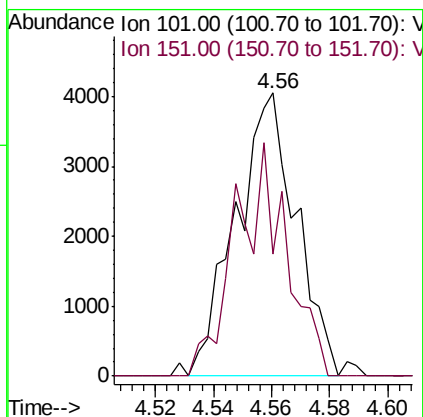
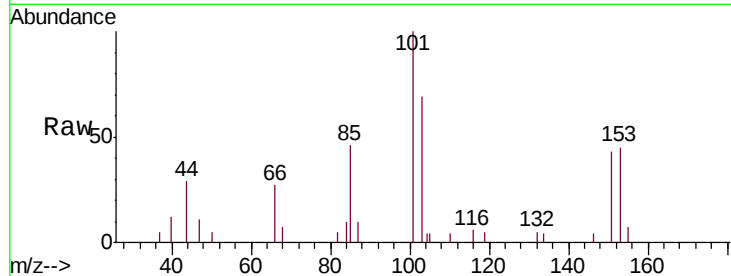
Ion 66.10 (65.80 to 66.80): VL0





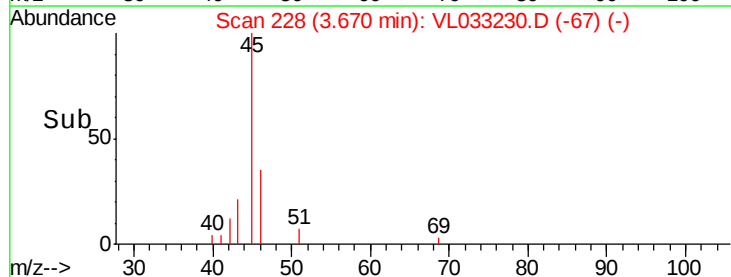
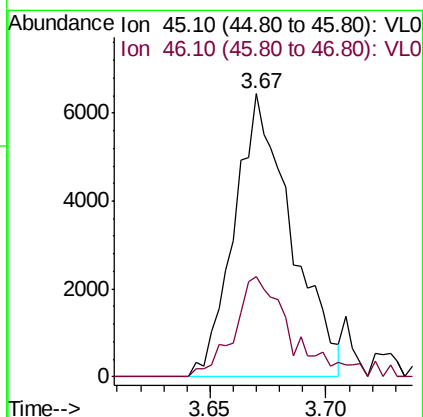
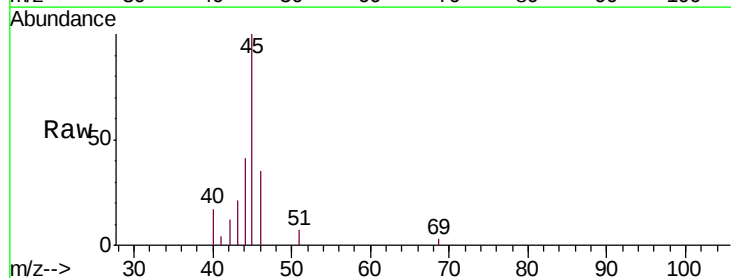
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.081 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. 0.01 min
 Lab File: VL033230.D
 Acq: 15 Feb 2019 13:35

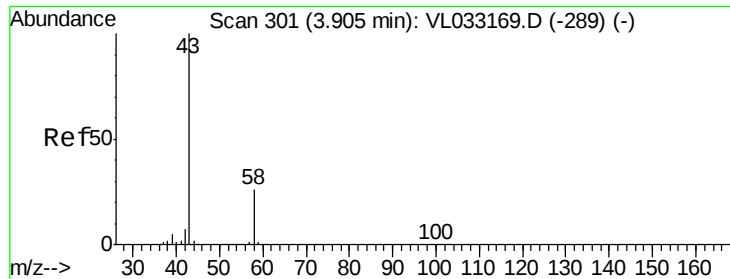
Tgt Ion: 101 Resp: 5852
 Ion Ratio Lower Upper
 101 100
 151 69.3 57.4 86.0



#13
 Ethanol
 Concen: 0.839 ppbv
 RT: 3.67 min Scan# 228
 Delta R.T. 0.02 min
 Lab File: VL033230.D
 Acq: 15 Feb 2019 13:35

Tgt Ion: 45 Resp: 10999
 Ion Ratio Lower Upper
 45 100
 46 36.2 15.0 60.2





#15

Acetone

Concen: 0.167 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL033230.D

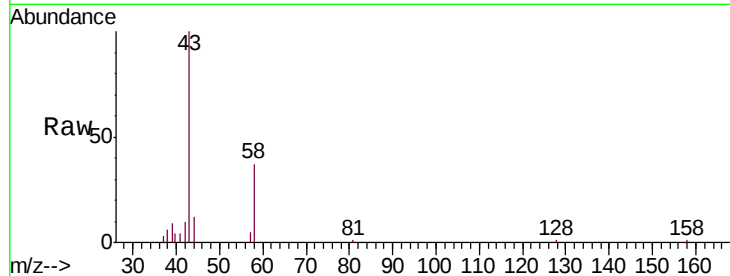
Acq: 15 Feb 2019 13:35

Tgt Ion: 43 Resp: 12729

Ion Ratio Lower Upper

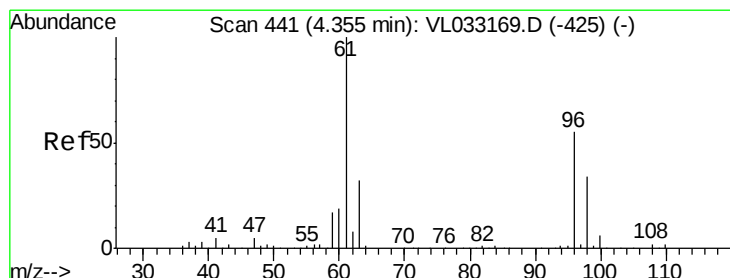
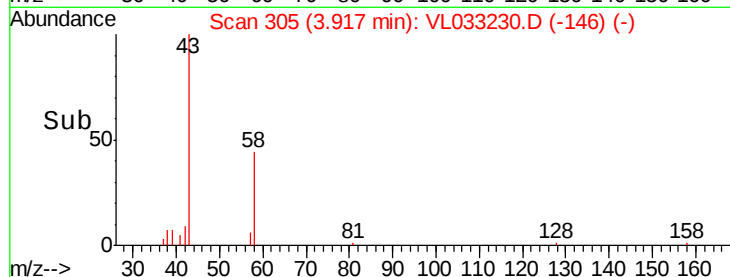
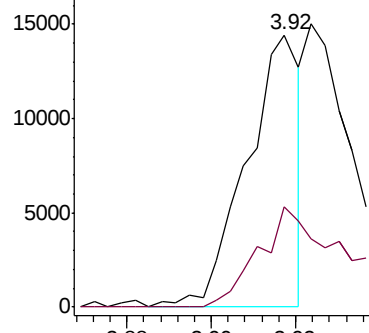
43 100

58 61.4 21.1 31.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 0.204 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL033230.D

Acq: 15 Feb 2019 13:35

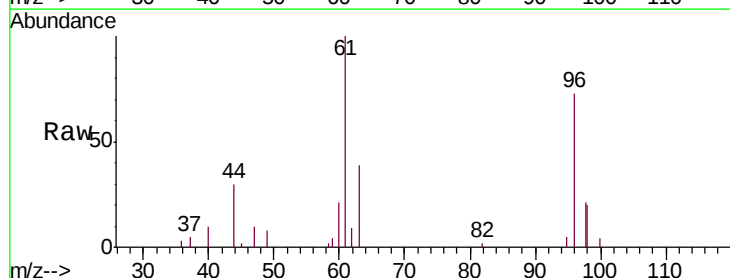
Tgt Ion: 96 Resp: 6623

Ion Ratio Lower Upper

96 100

61 149.1 145.0 217.6

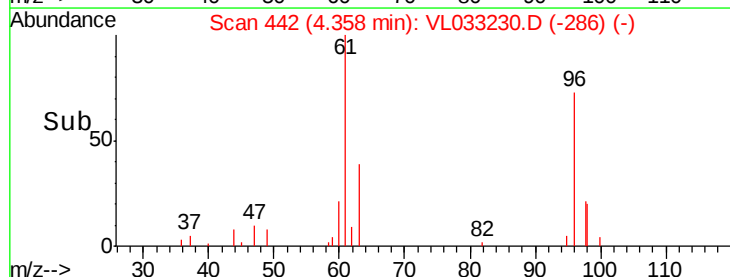
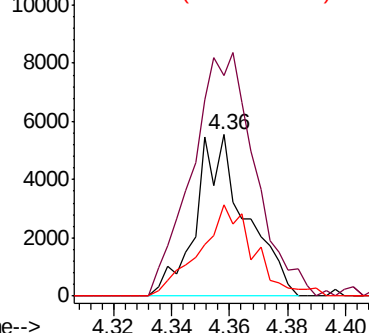
98 56.7 50.0 75.0

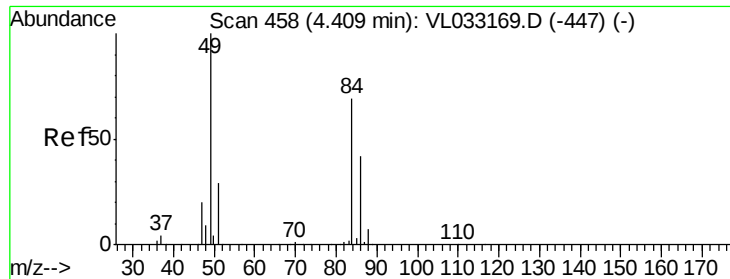


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

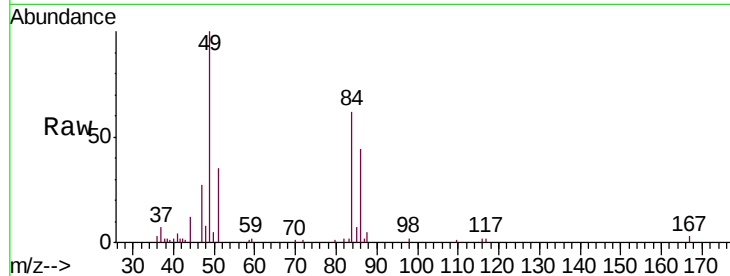
Ion 98.00 (97.70 to 98.70): VL0



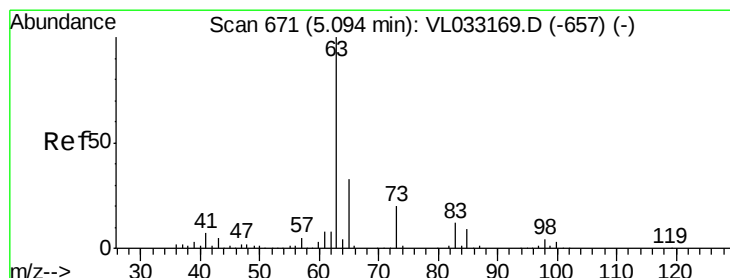
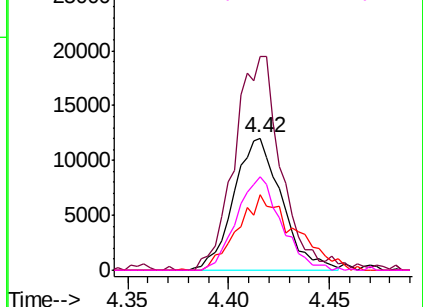
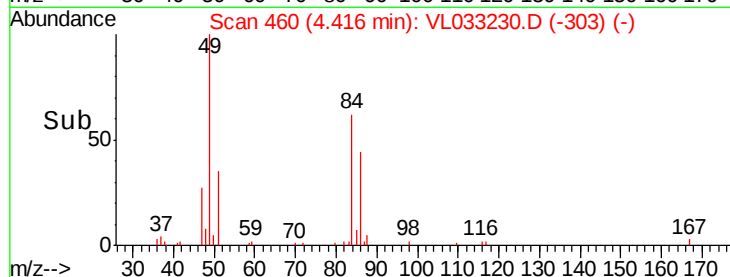


#20
Methylene Chloride
Concen: 0.660 ppbv
RT: 4.42 min Scan# 460
Delta R.T. 0.01 min
Lab File: VL033230.D
Acq: 15 Feb 2019 13:35

Tgt Ion: 84 Resp: 19978
Ion Ratio Lower Upper
84 100
49 161.6 115.8 173.8
51 56.8 33.0 49.6#
86 70.9 48.2 72.2

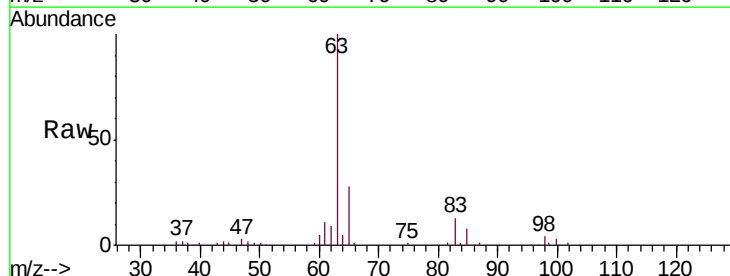


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

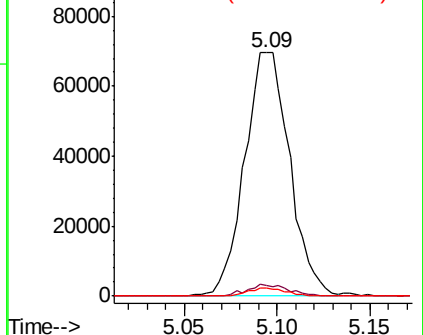
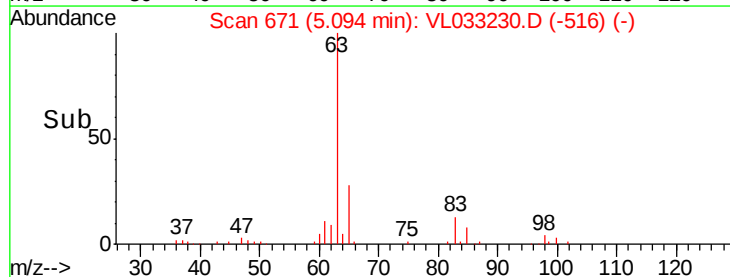


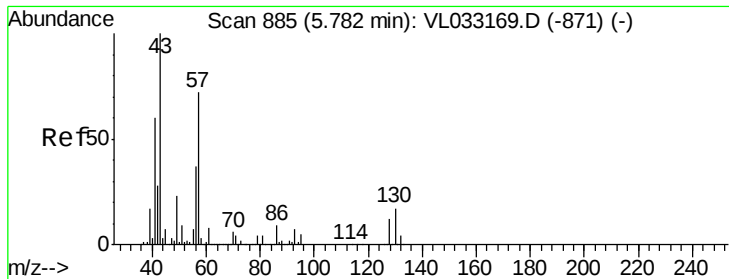
#24
1,1-Dichloroethane
Concen: 1.259 ppbv
RT: 5.09 min Scan# 671
Delta R.T. -0.00 min
Lab File: VL033230.D
Acq: 15 Feb 2019 13:35

Tgt Ion: 63 Resp: 117517
Ion Ratio Lower Upper
63 100
98 4.3 2.1 6.5
100 3.2 1.4 4.2



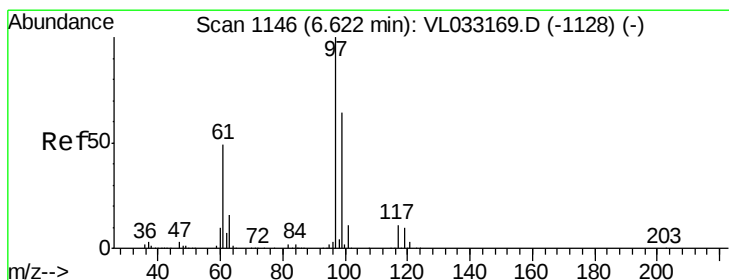
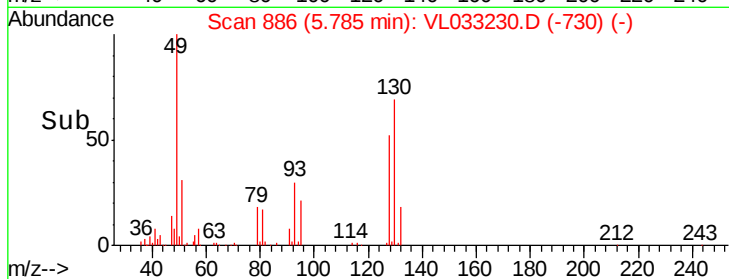
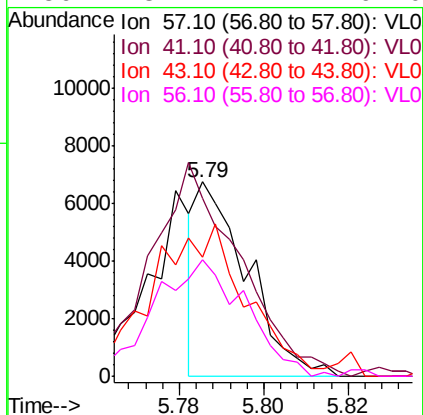
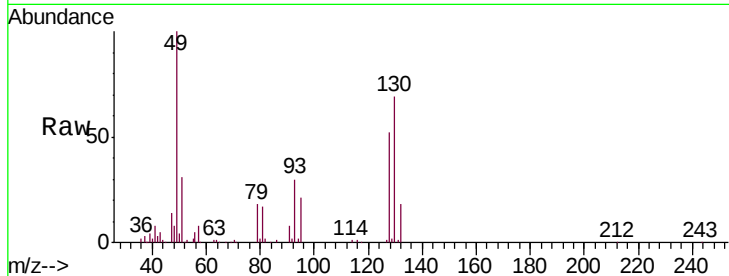
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





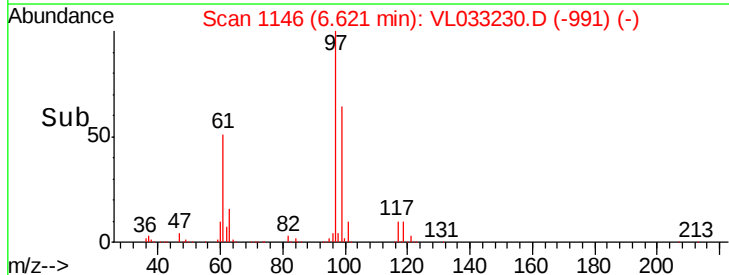
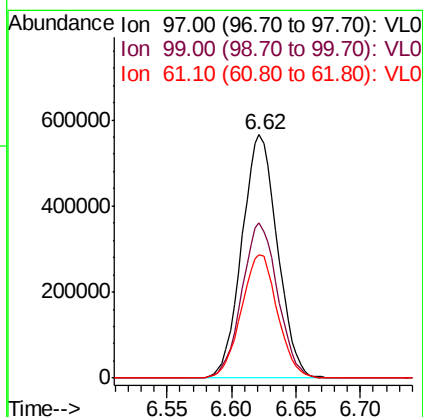
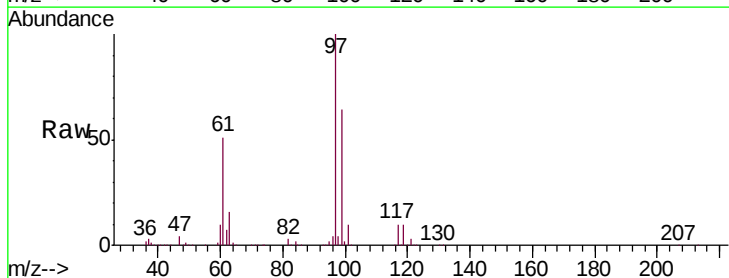
#26
Hexane
Concen: 0.070 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033230.D
Acq: 15 Feb 2019 13:35

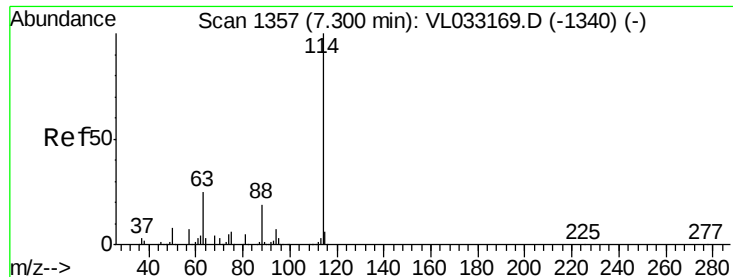
Tgt Ion: 57 Resp: 5599
Ion Ratio Lower Upper
57 100
41 201.4 69.4 104.2#
43 152.5 176.7 265.1#
56 113.7 41.4 62.0#



#32
1,1,1-Trichloroethane
Concen: 8.007 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. -0.00 min
Lab File: VL033230.D
Acq: 15 Feb 2019 13:35

Tgt Ion: 97 Resp: 1086051
Ion Ratio Lower Upper
97 100
99 64.2 51.4 77.2
61 51.7 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL033230.D

Acq: 15 Feb 2019 13:35

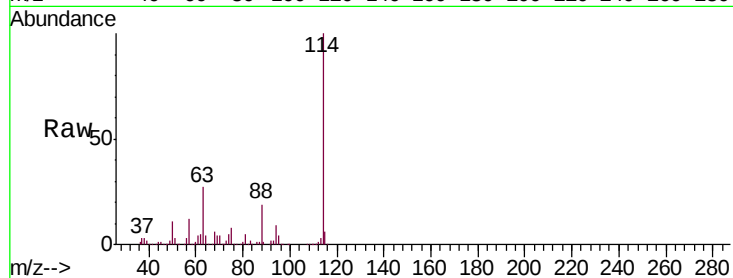
Tgt Ion: 114 Resp: 1506441

Ion Ratio Lower Upper

114 100

63 28.2 20.8 31.2

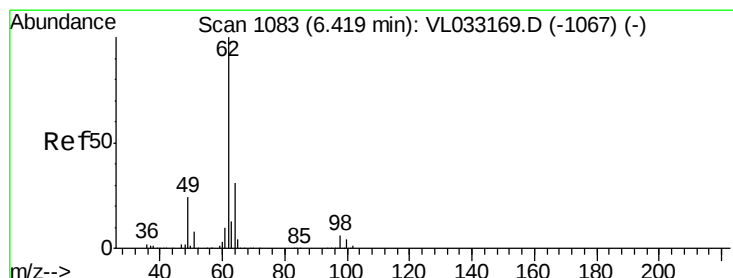
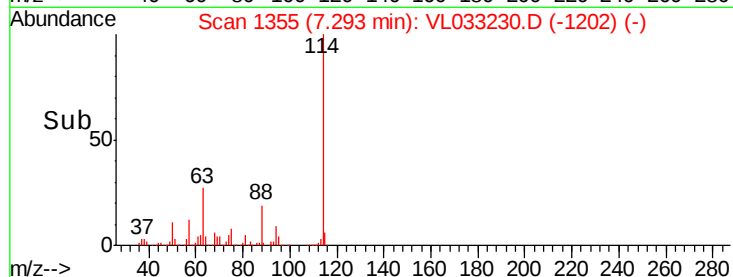
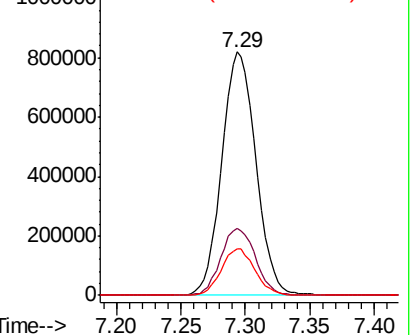
88 18.9 14.6 22.0



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



#37

1,2-Dichloroethane

Concen: 0.934 ppbv

RT: 6.62 min Scan# 1146

Delta R.T. 0.20 min

Lab File: VL033230.D

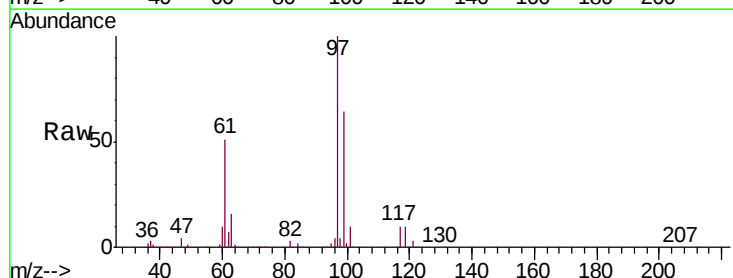
Acq: 15 Feb 2019 13:35

Tgt Ion: 62 Resp: 79015

Ion Ratio Lower Upper

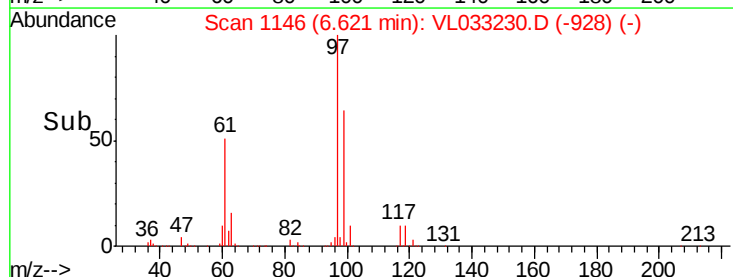
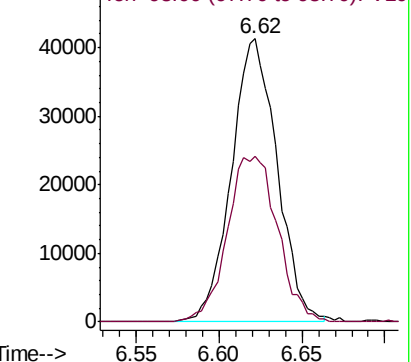
62 100

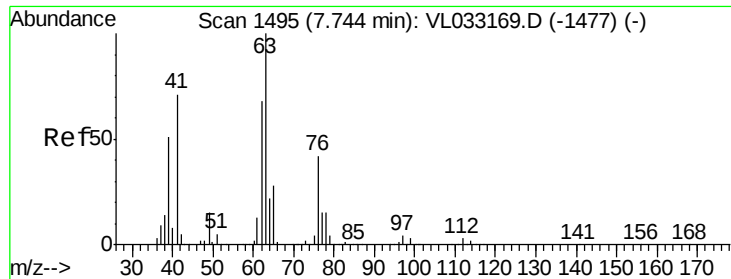
98 64.3 4.7 7.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 7.007 ppbv

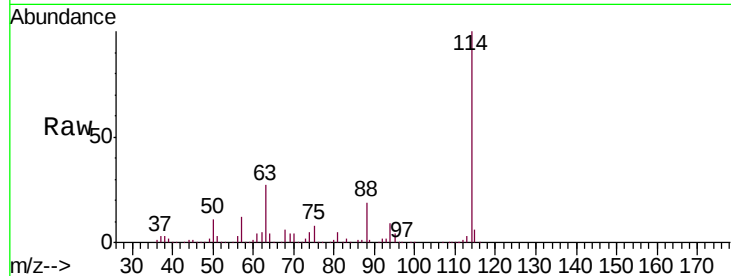
RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

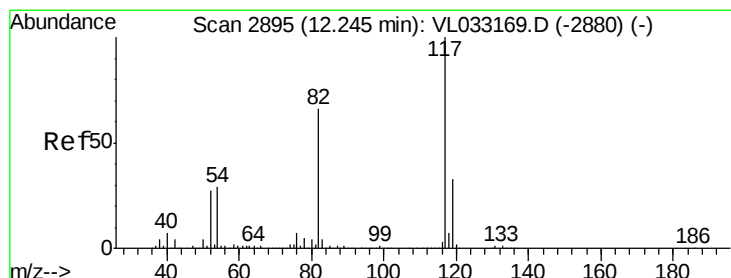
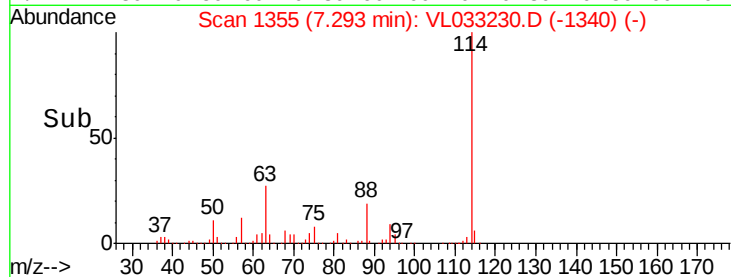
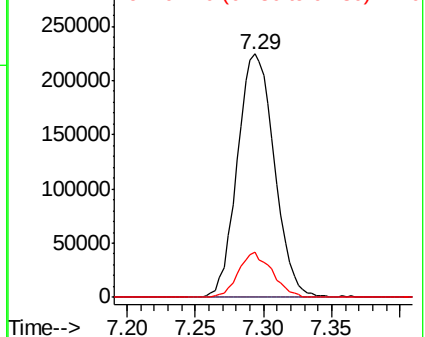
Lab File: VL033230.D

Acq: 15 Feb 2019 13:35

Tgt Ion:	63	Resp:	422464
Ion	Ratio	Lower	Upper
63	100		
41	0.3	56.4	84.6#
62	18.3	54.2	81.4#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

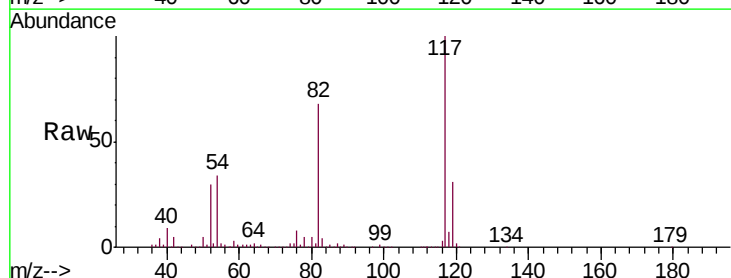
RT: 12.24 min Scan# 2894

Delta R.T. -0.00 min

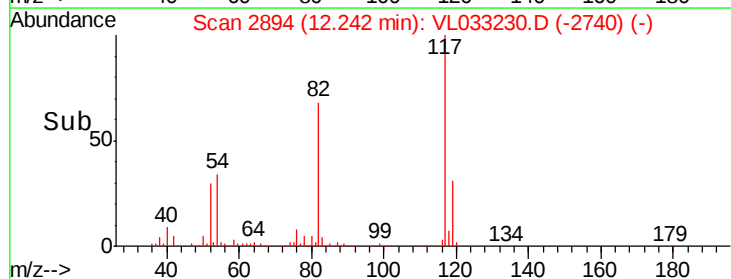
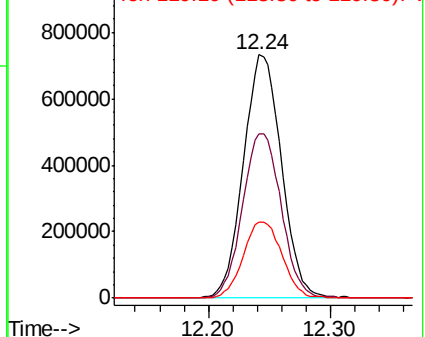
Lab File: VL033230.D

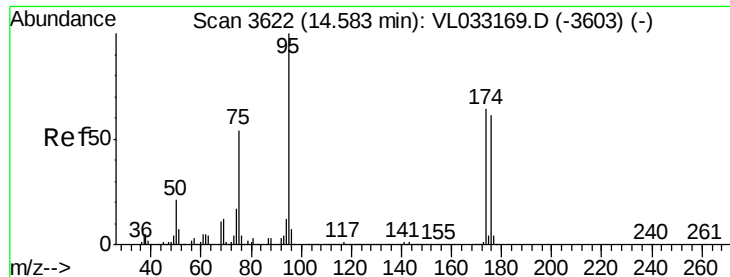
Acq: 15 Feb 2019 13:35

Tgt Ion:	117	Resp:	1574911
Ion	Ratio	Lower	Upper
117	100		
82	69.1	49.5	74.3
119	32.1	24.4	36.6



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





#68

1-Bromo-4-Fluorobenzene

Concen: 11.959 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033230.D

Acq: 15 Feb 2019 13:35

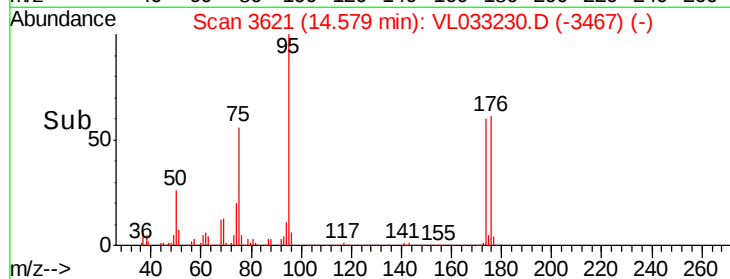
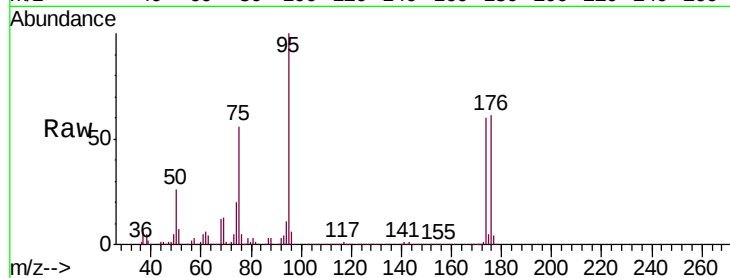
Tgt Ion: 95 Resp: 1450540

Ion Ratio Lower Upper

95 100

174 62.9 51.2 76.8

175 4.6 3.8 5.6



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

