

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
 Data File : VL033208.D
 Acq On : 14 Feb 2019 21:35
 Operator : SY/AP
 Sample : K1483-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 04:19:13 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	5.76	49	969734	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2179801	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	2168412	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1735451	10.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

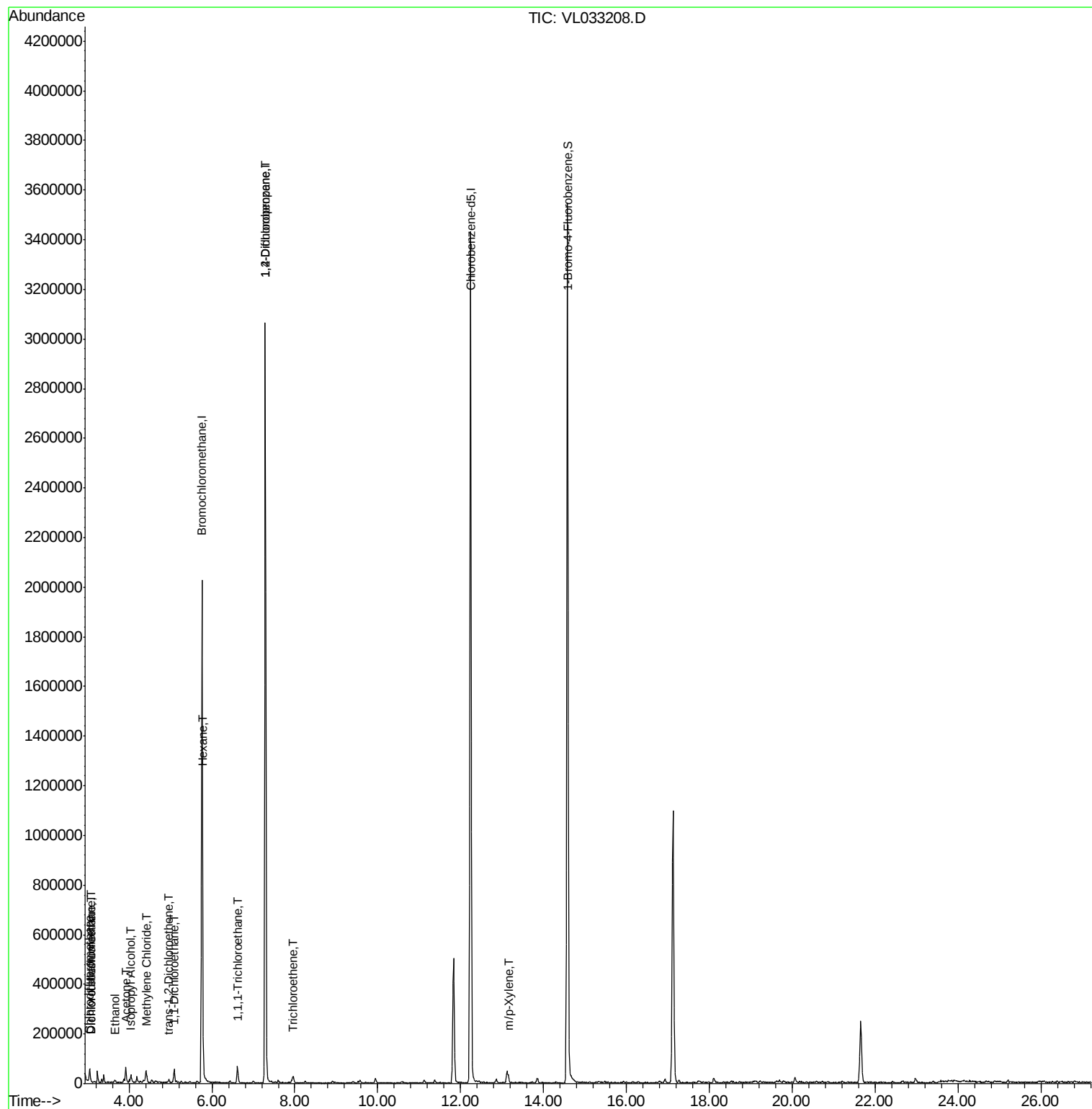
Target Compounds

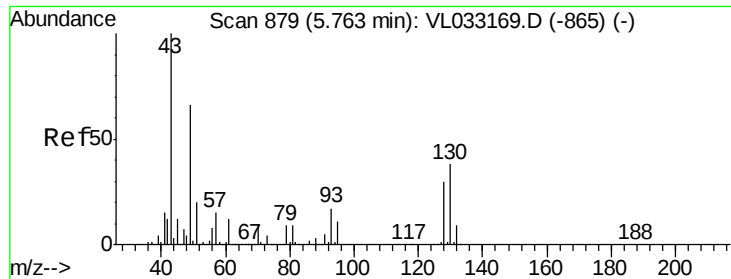
					Qvalue
2) Dichlorodifluoromethane	3.08	85	7129	0.038 ppbv	93
3) Chlorodifluoromethane	3.02	51	5217	0.045 ppbv #	89
8) Dichlorotetrafluoroethane	3.08	85	7129	0.049 ppbv #	18
13) Ethanol	3.66	45	4374	0.233 ppbv #	41
15) Acetone	3.92	43	46424	0.425 ppbv	91
19) Isopropyl Alcohol	4.05	45	18821	0.254 ppbv #	97
20) Methylene Chloride	4.41	84	13853	0.319 ppbv #	85
22) trans-1,2-Dichloroethene	4.97	96	1494	0.033 ppbv #	64
24) 1,1-Dichloroethane	5.09	63	40277	0.301 ppbv #	97
26) Hexane	5.78	57	6744	0.058 ppbv #	30
32) 1,1,1-Trichloroethane	6.62	97	8969	0.046 ppbv #	1
38) Trichloroethene	7.96	130	3011	0.032 ppbv #	77
39) 1,2-Dichloropropane	7.29	63	576047	6.602 ppbv #	25
59) m/p-Xylene	13.15	91	9497	0.032 ppbv #	100

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 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: VL033208.D

Acq: 14 Feb 2019 21:35

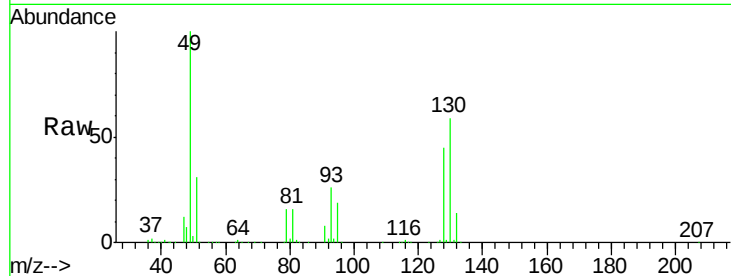
Tgt Ion: 49 Resp: 969734

Ion Ratio Lower Upper

49 100

128 45.6 23.6 71.0

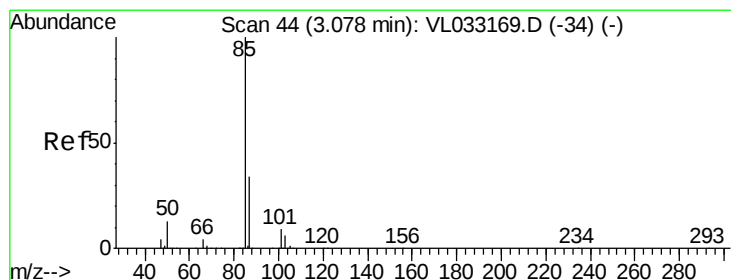
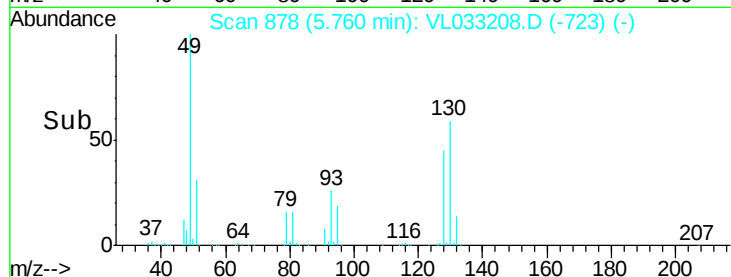
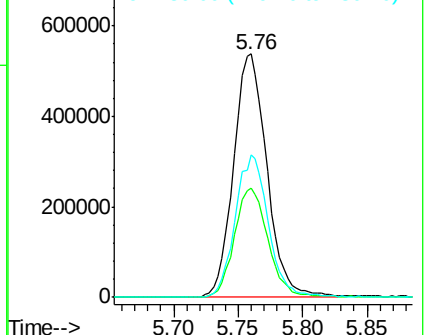
130 58.4 30.3 91.0



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: 0.038 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033208.D

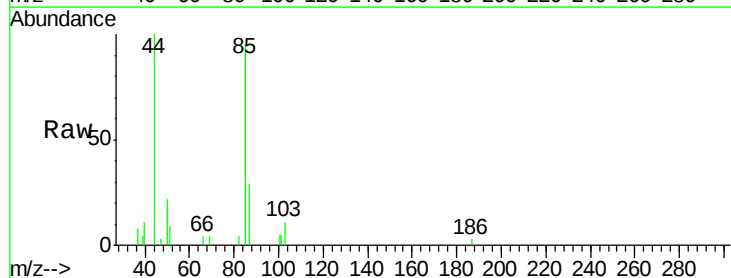
Acq: 14 Feb 2019 21:35

Tgt Ion: 85 Resp: 7129

Ion Ratio Lower Upper

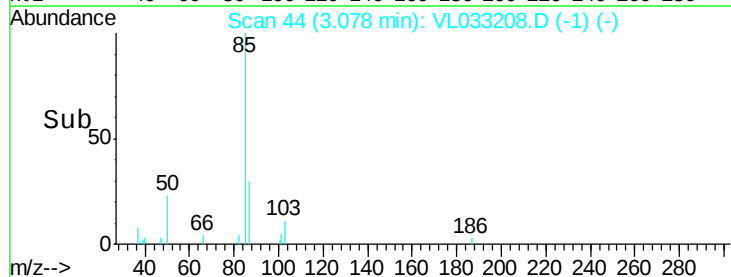
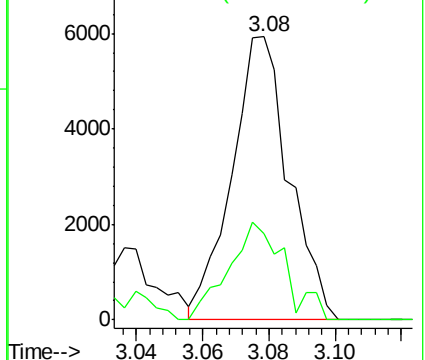
85 100

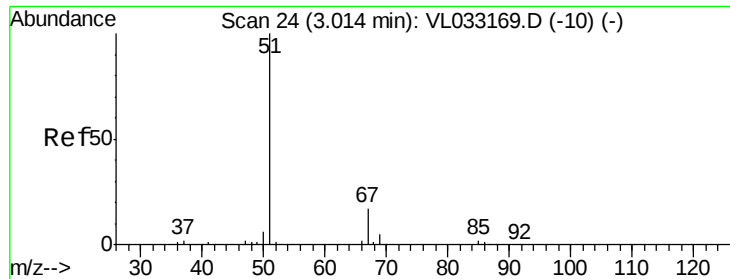
87 30.4 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.045 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.01 min

Lab File: VL033208.D

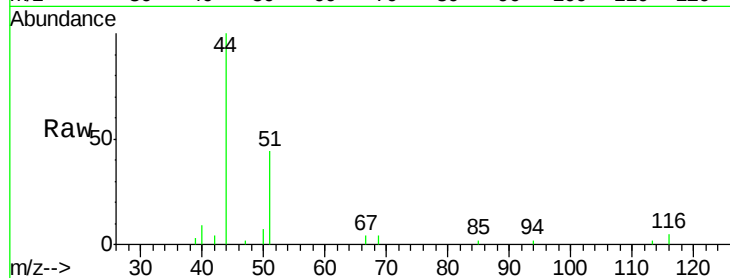
Acq: 14 Feb 2019 21:35

Tgt Ion: 51 Resp: 5217

Ion Ratio Lower Upper

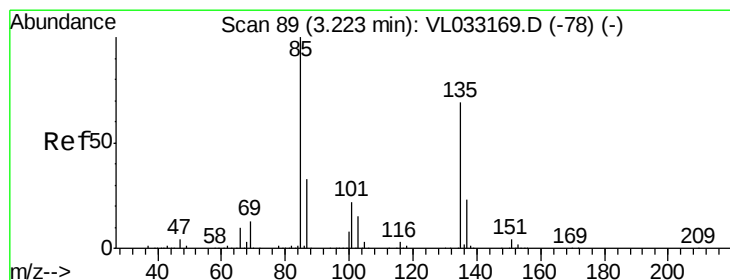
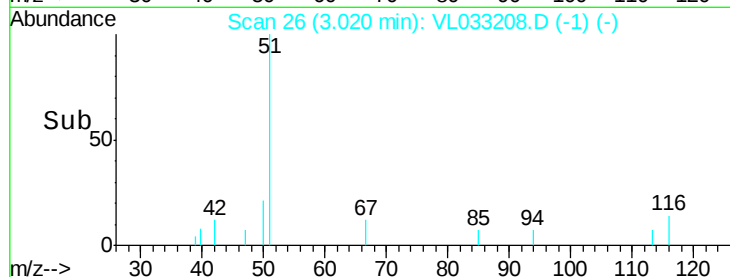
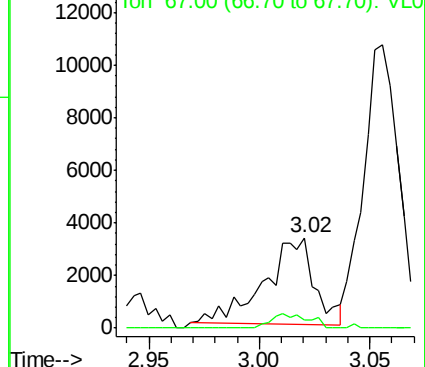
51 100

67 12.8 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.049 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.14 min

Lab File: VL033208.D

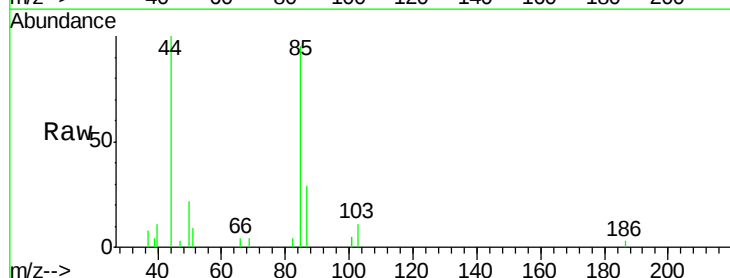
Acq: 14 Feb 2019 21:35

Tgt Ion: 85 Resp: 7129

Ion Ratio Lower Upper

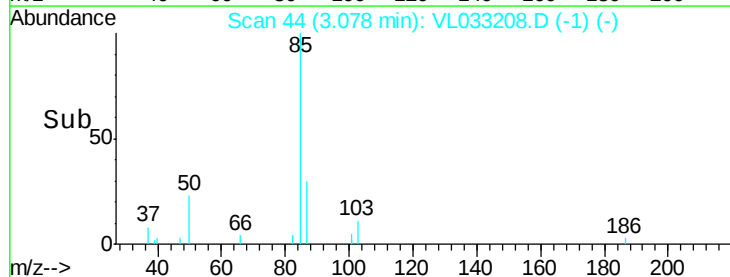
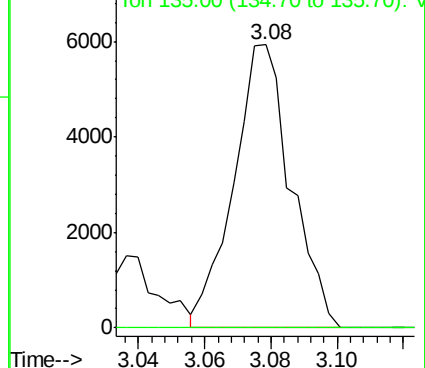
85 100

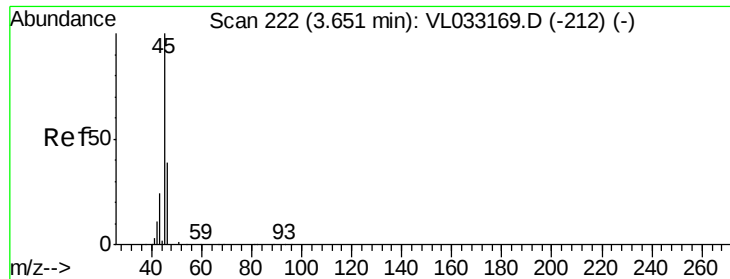
135 1.6 54.3 81.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#13

Ethanol

Concen: 0.233 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033208.D

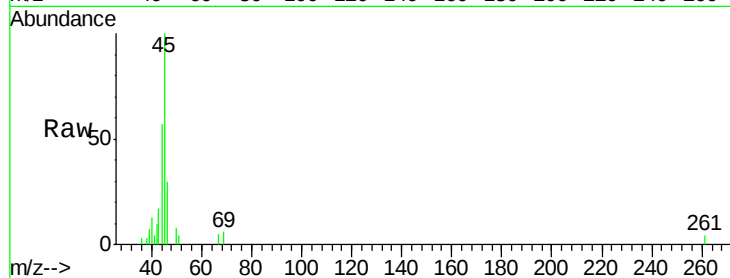
Acq: 14 Feb 2019 21:35

Tgt Ion: 45 Resp: 4374

Ion Ratio Lower Upper

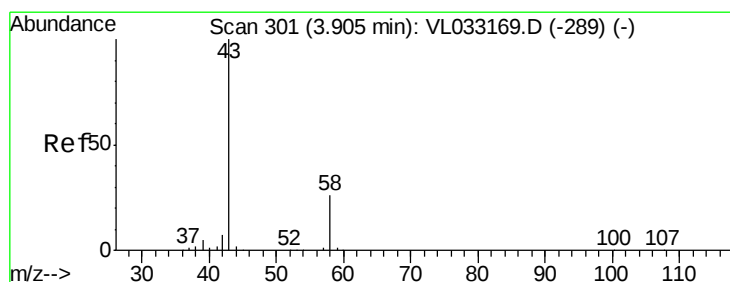
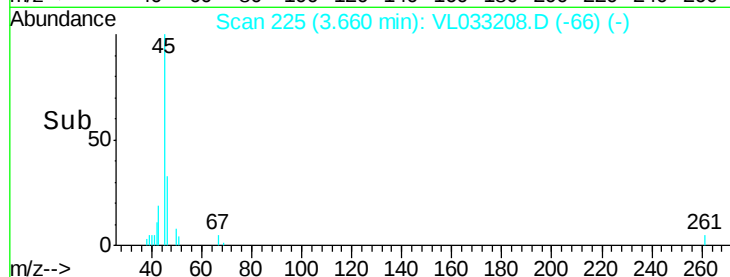
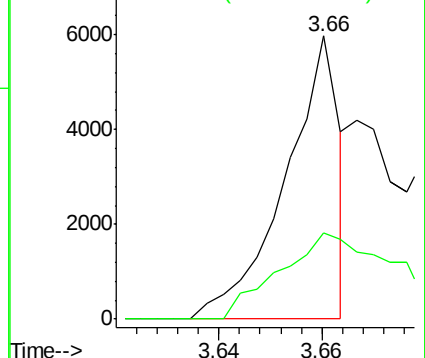
45 100

46 72.7 15.0 60.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.425 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL033208.D

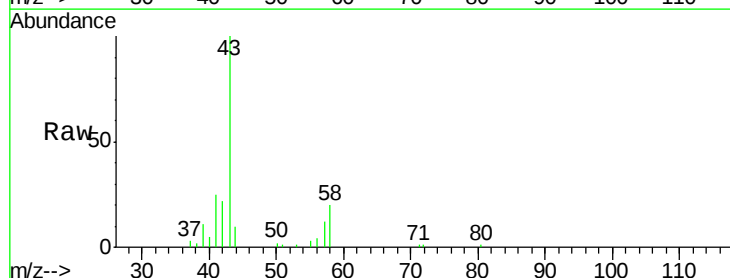
Acq: 14 Feb 2019 21:35

Tgt Ion: 43 Resp: 46424

Ion Ratio Lower Upper

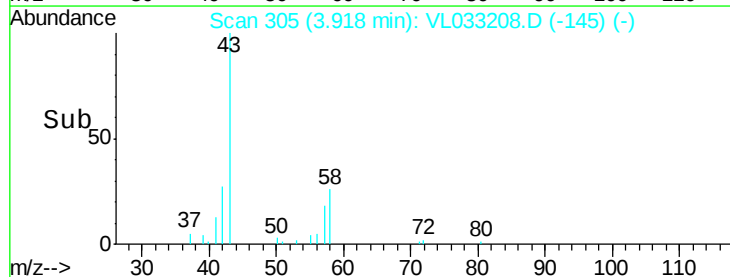
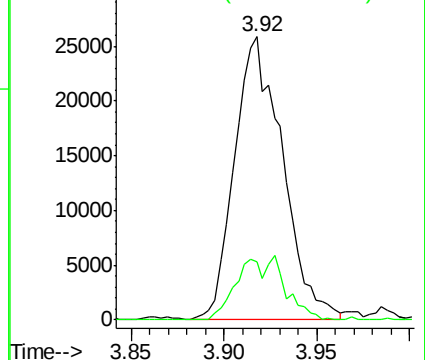
43 100

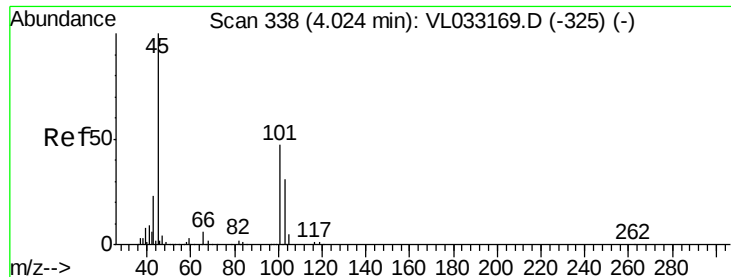
58 22.0 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#19

Isopropyl Alcohol

Concen: 0.254 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.02 min

Lab File: VL033208.D

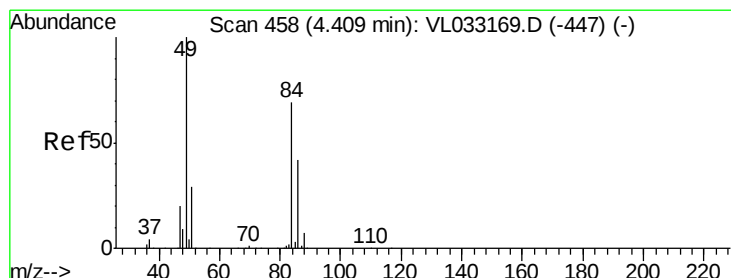
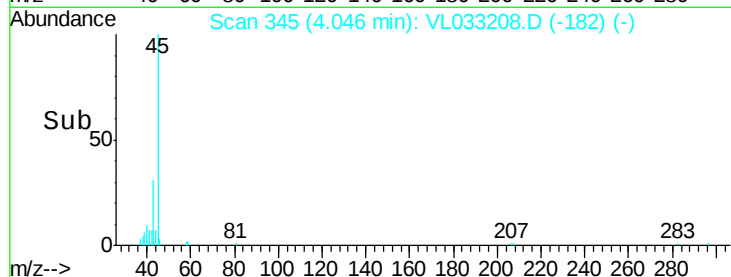
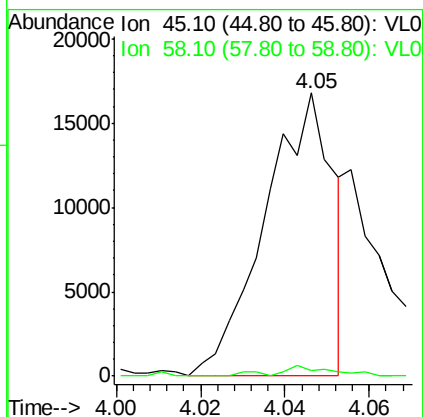
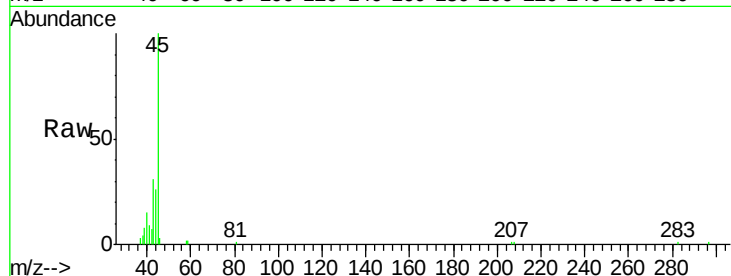
Acq: 14 Feb 2019 21:35

Tgt Ion: 45 Resp: 18821

Ion Ratio Lower Upper

45 100

58 2.9 1.5 2.3#



#20

Methylene Chloride

Concen: 0.319 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033208.D

Acq: 14 Feb 2019 21:35

Tgt Ion: 84 Resp: 13853

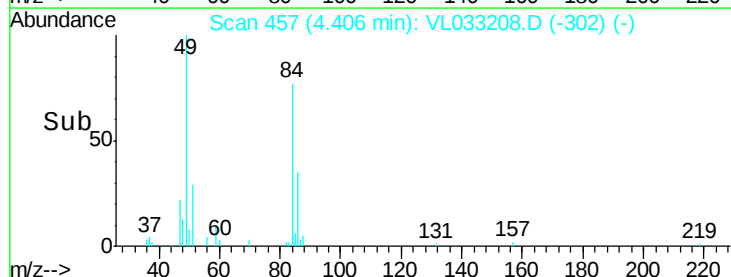
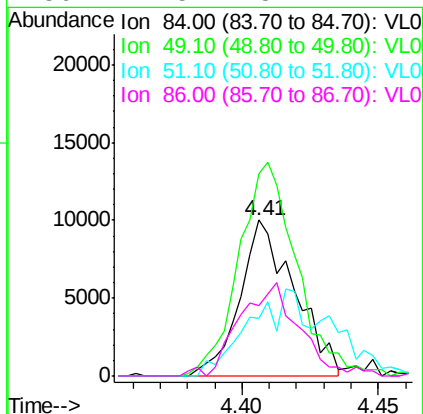
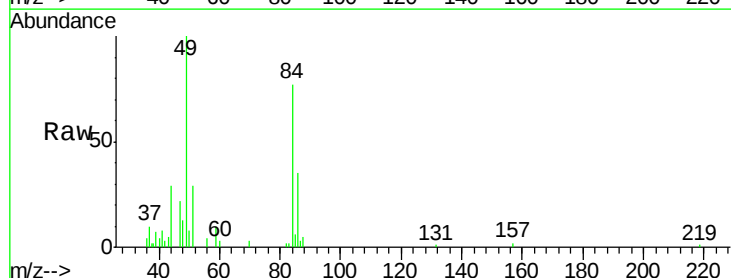
Ion Ratio Lower Upper

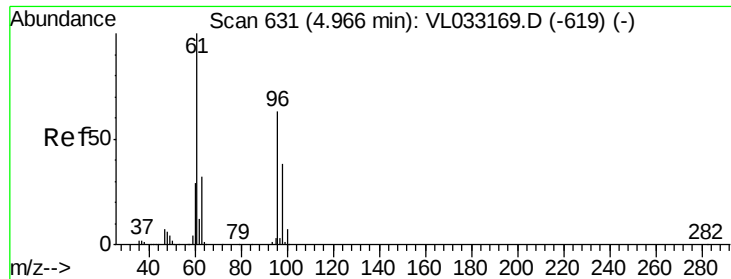
84 100

49 127.7 115.8 173.8

51 37.0 33.0 49.6

86 41.5 48.2 72.2#





#22

trans-1,2-Dichloroethene

Concen: 0.033 ppbv

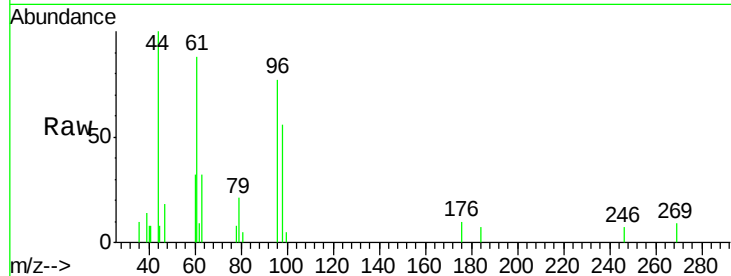
RT: 4.97 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL033208.D

Acq: 14 Feb 2019 21:35

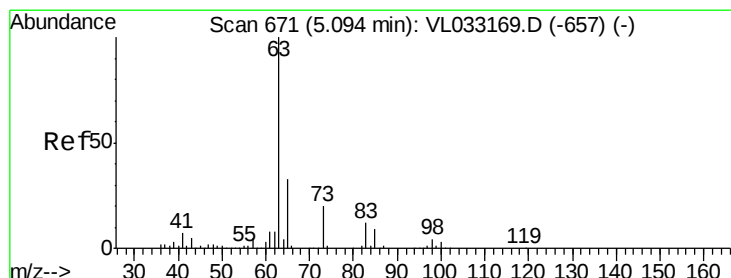
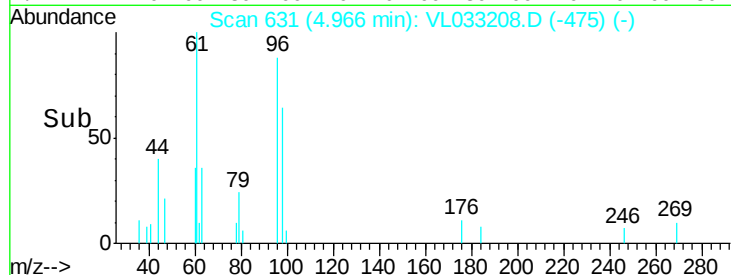
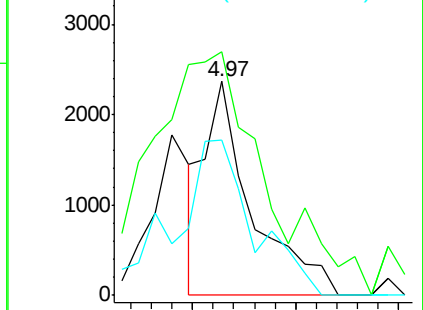
Tgt Ion:	96	Resp:	1494
Ion	Ratio	Lower	Upper
96	100		
61	100.4	126.4	189.6#
98	72.9	48.4	72.6#



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



#24

1,1-Dichloroethane

Concen: 0.301 ppbv

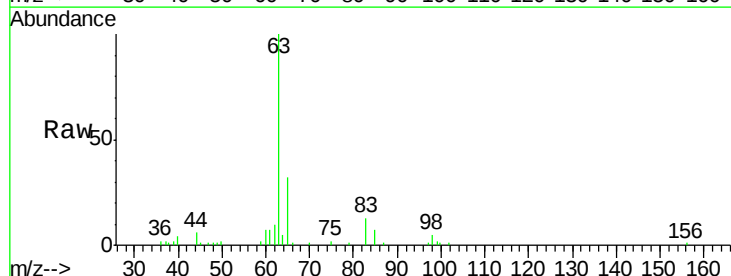
RT: 5.09 min Scan# 669

Delta R.T. -0.01 min

Lab File: VL033208.D

Acq: 14 Feb 2019 21:35

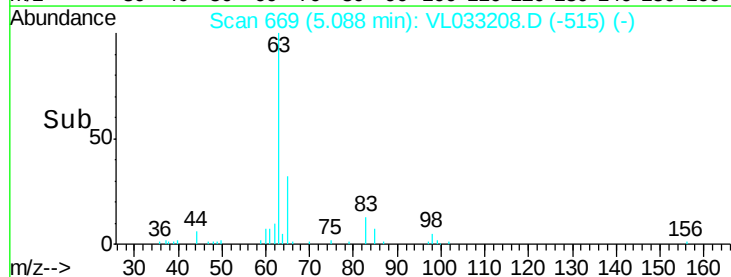
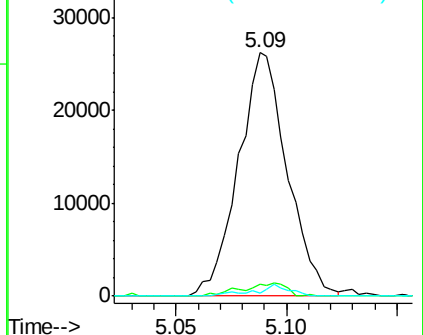
Tgt Ion:	63	Resp:	40277
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.1	6.5
100	1.1	1.4	4.2#

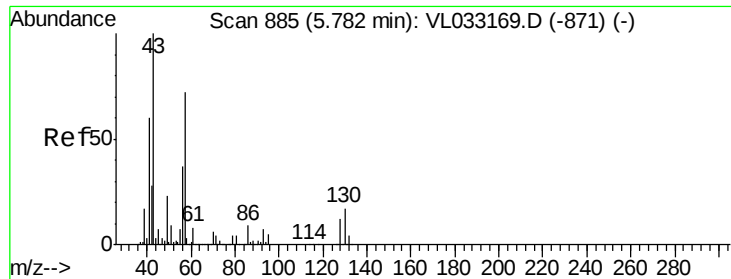


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

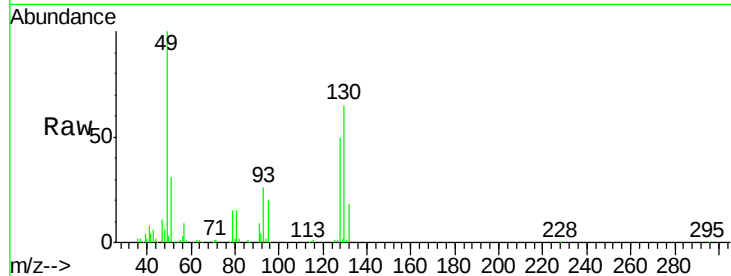
Ion 100.00 (99.70 to 100.70): VL0



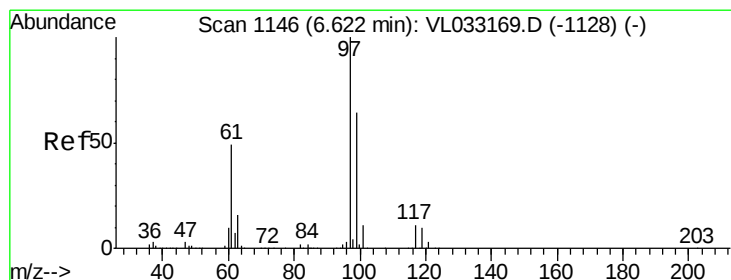
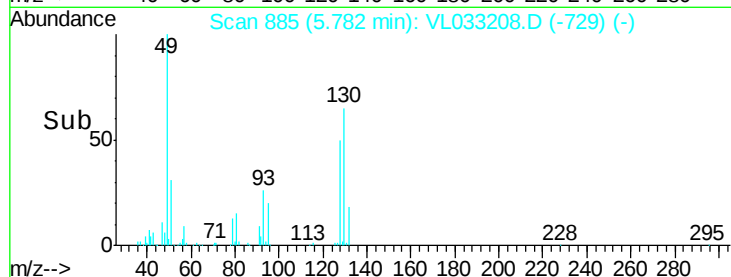
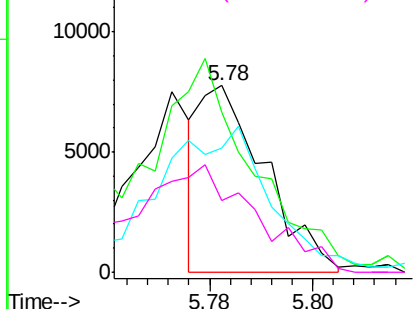


#26
Hexane
Concen: 0.058 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033208.D
Acq: 14 Feb 2019 21:35

Tgt Ion: 57 Resp: 6744
Ion Ratio Lower Upper
57 100
41 198.7 69.4 104.2#
43 143.5 176.7 265.1#
56 107.9 41.4 62.0#

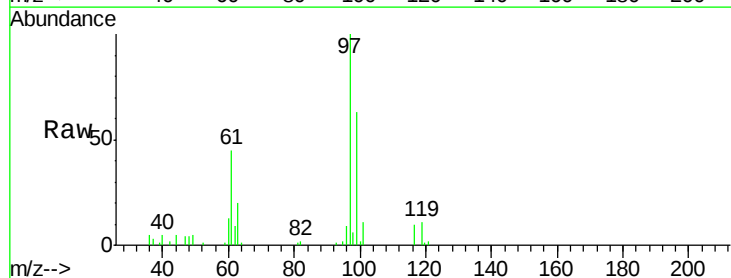


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

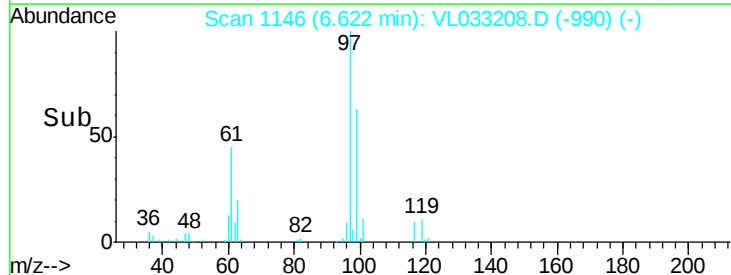
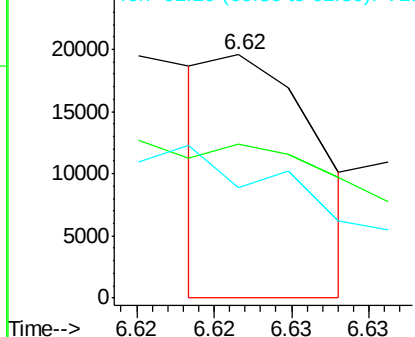


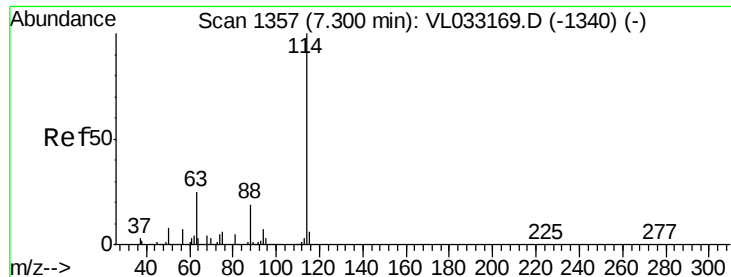
#32
1,1,1-Trichloroethane
Concen: 0.046 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. 0.00 min
Lab File: VL033208.D
Acq: 14 Feb 2019 21:35

Tgt Ion: 97 Resp: 8969
Ion Ratio Lower Upper
97 100
99 0.0 51.4 77.2#
61 243.2 38.9 58.3#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

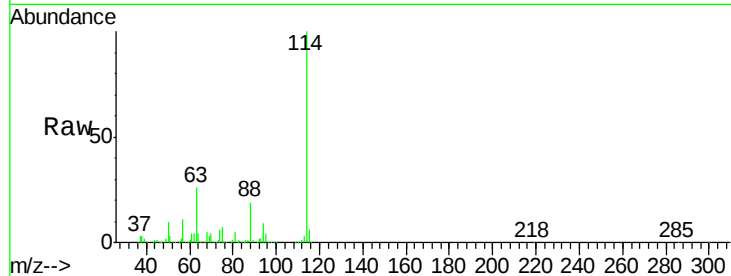




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033208.D
 Acq: 14 Feb 2019 21:35

Tgt Ion:114 Resp: 2179801

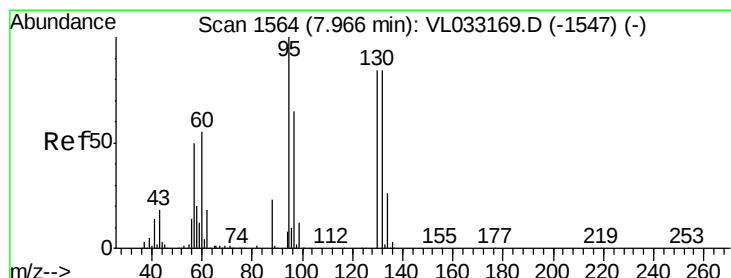
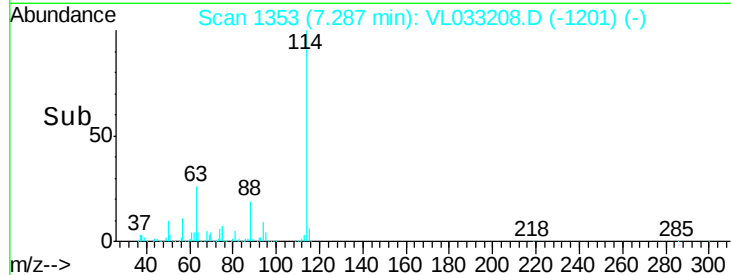
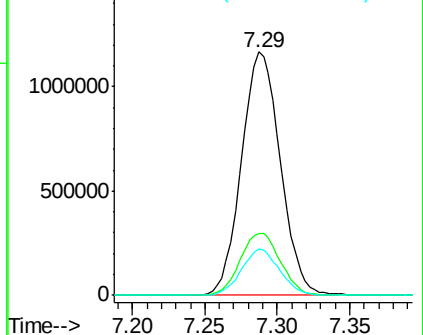
Ion	Ratio	Lower	Upper
114	100		
63	26.5	20.8	31.2
88	18.7	14.6	22.0



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

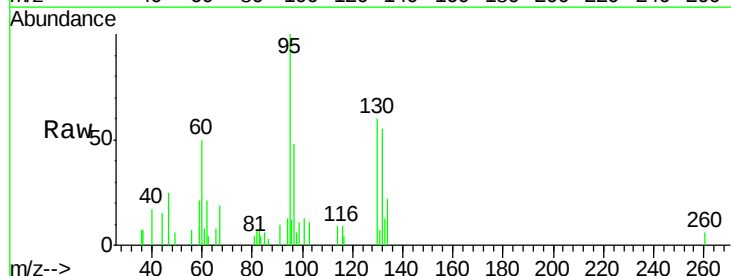
Ion 88.10 (87.80 to 88.80): VL0



#38
 Trichloroethene
 Concen: 0.032 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VL033208.D
 Acq: 14 Feb 2019 21:35

Tgt Ion:130 Resp: 3011

Ion	Ratio	Lower	Upper
130	100		
95	102.0	95.5	143.3
132	74.0	80.0	120.0#
97	51.6	62.2	93.2#

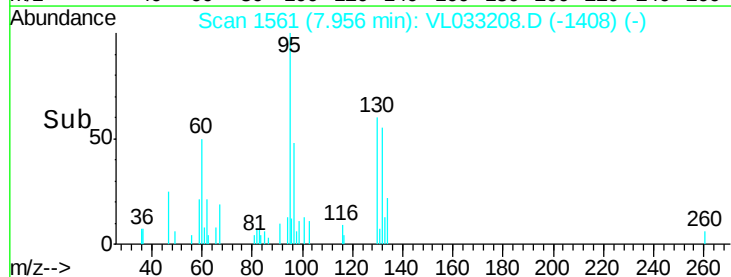
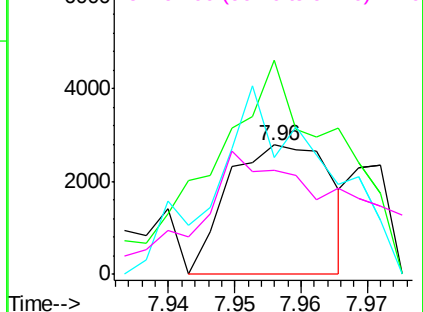


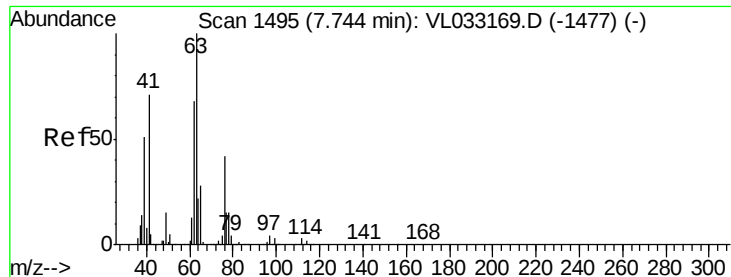
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 6.602 ppbv

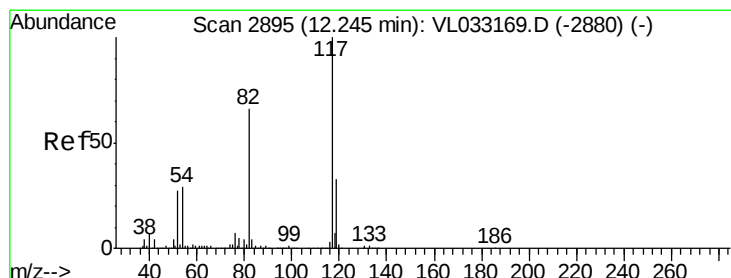
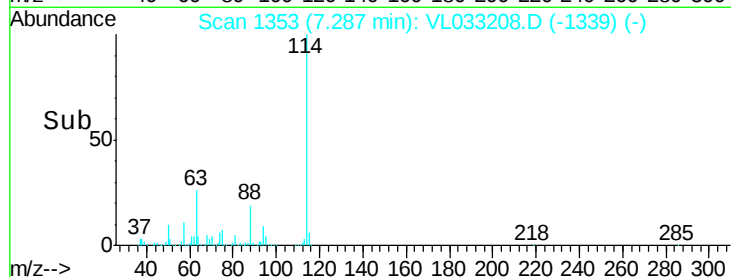
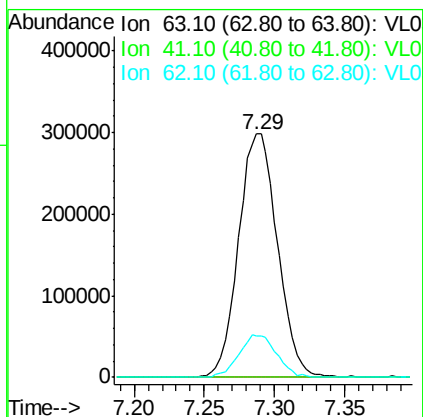
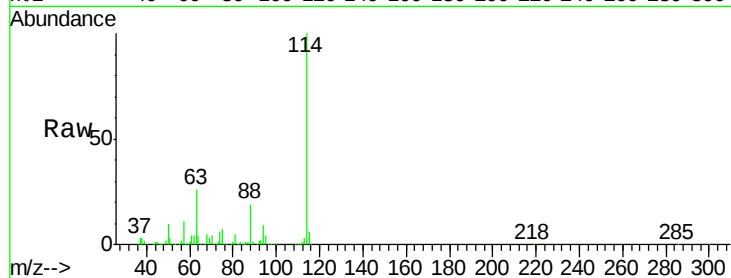
RT: 7.29 min Scan# 1353

Delta R.T. -0.46 min

Lab File: VL033208.D

Acq: 14 Feb 2019 21:35

Tgt Ion:	63	Resp:	576047
Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.4	84.6#
62	16.9	54.2	81.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

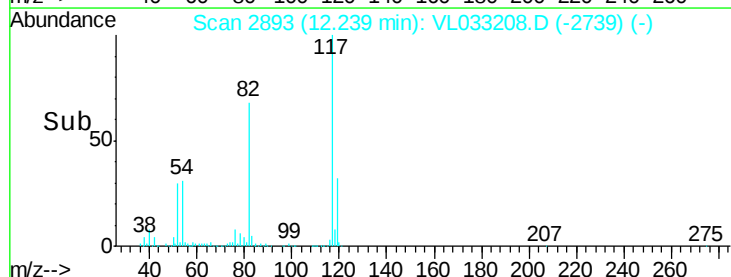
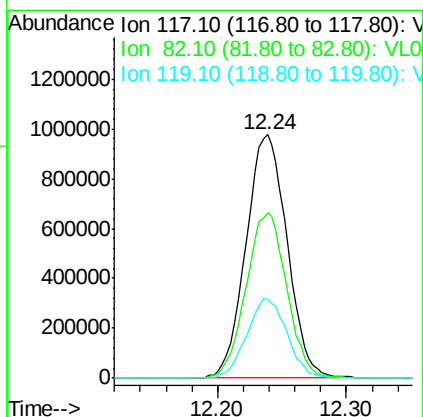
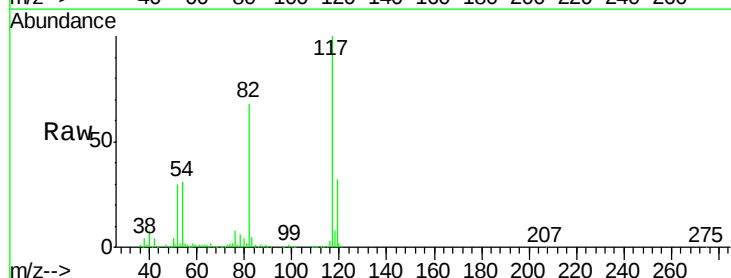
RT: 12.24 min Scan# 2893

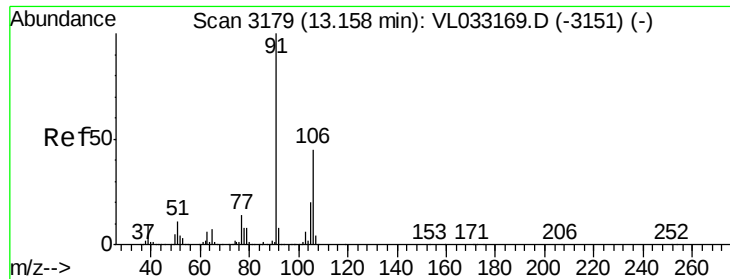
Delta R.T. -0.01 min

Lab File: VL033208.D

Acq: 14 Feb 2019 21:35

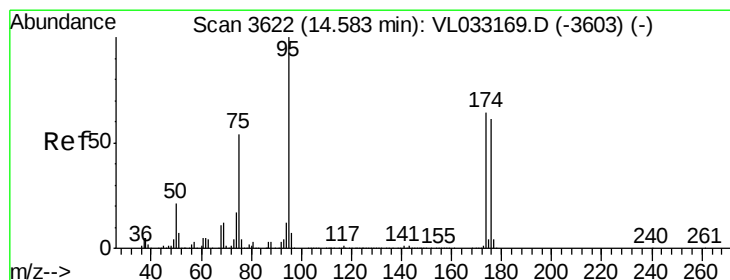
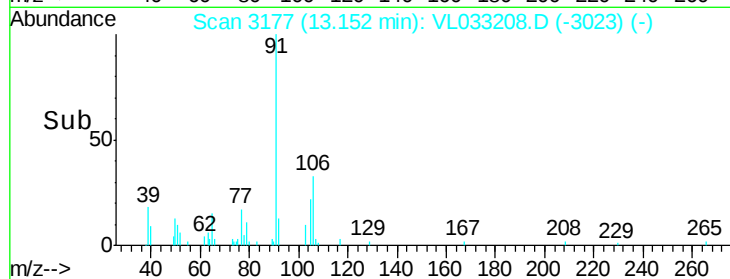
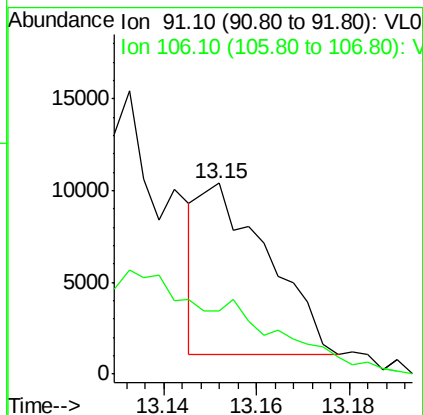
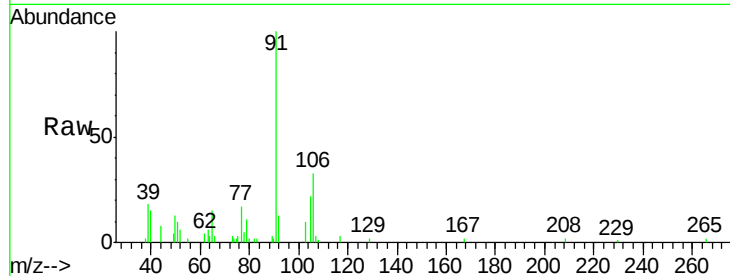
Tgt Ion:	117	Resp:	2168412
Ion	Ratio	Lower	Upper
117	100		
82	67.7	49.5	74.3
119	32.2	24.4	36.6





#59
m/p-Xylene
Concen: 0.032 ppbv
RT: 13.15 min Scan# 3177
Delta R.T. -0.01 min
Lab File: VL033208.D
Acq: 14 Feb 2019 21:35

Tgt Ion: 91 Resp: 9497
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.392 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033208.D
Acq: 14 Feb 2019 21:35

Tgt Ion: 95 Resp: 1735451
Ion Ratio Lower Upper
95 100
174 63.9 51.2 76.8
175 4.6 3.8 5.6

