

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032795.D
 Acq On : 21 Nov 2018 1:55
 Operator : SY/AP
 Sample : J5998-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

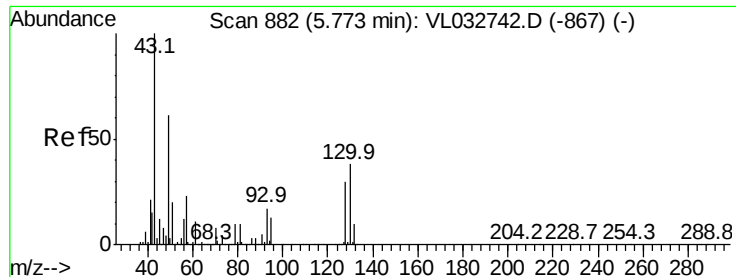
Quant Time: Nov 21 04:09:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1292630	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3291423	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2979010	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2187324	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	10617	0.057	ppbv	99
3) Chlorodifluoromethane	2.99	51	73175	0.714	ppbv #	59
4) Chloromethane	3.18	50	2440	0.043	ppbv	92
9) Propene	3.06	41	11781	0.287	ppbv #	77
11) Trichlorofluoromethane	4.01	101	40123	0.229	ppbv	95
13) Ethanol	3.67	45	79447	5.914	ppbv	92
15) Acetone	3.93	43	87250	0.739	ppbv #	86
16) 1,3-Butadiene	3.35	39	1681	0.037	ppbv #	19
19) Isopropyl Alcohol	4.06	45	3826	0.049	ppbv #	1
20) Methylene Chloride	4.42	84	27614	0.452	ppbv	84
25) Ethyl Acetate	5.79	43	19629	0.071	ppbv #	93
26) Hexane	5.79	57	16784	0.137	ppbv #	56
39) 1,2-Dichloropropane	7.30	63	821356	8.225	ppbv #	23
53) Toluene	9.96	91	88599	0.324	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032795.D

Acq: 21 Nov 2018 1:55

Instrument :

MSVOA_L

ClientSampleId :

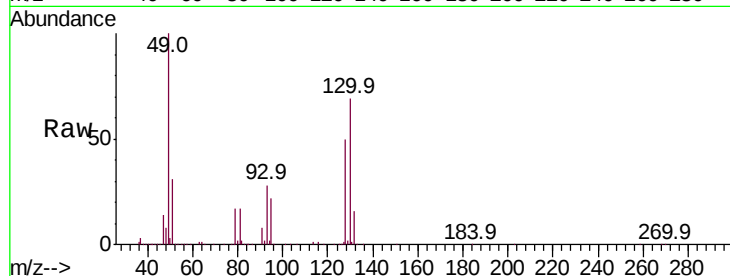
Tot Ion: 49 Resp: 1292630

Ion Ratio Lower Upper

49 100

128 52.1 24.9 74.6

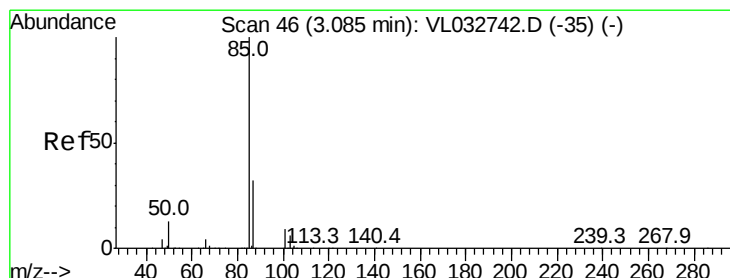
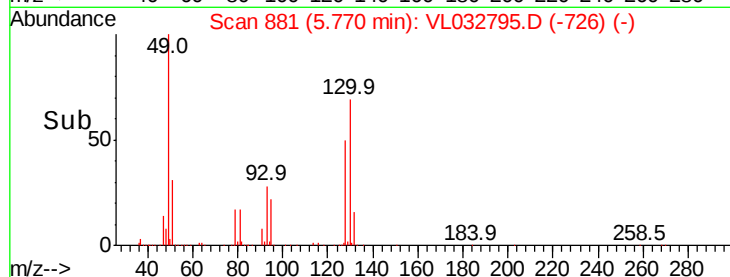
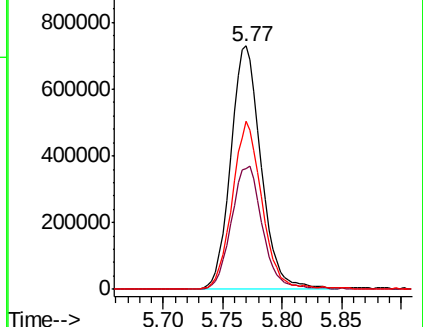
130 68.3 31.4 94.2



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: 0.057 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL032795.D

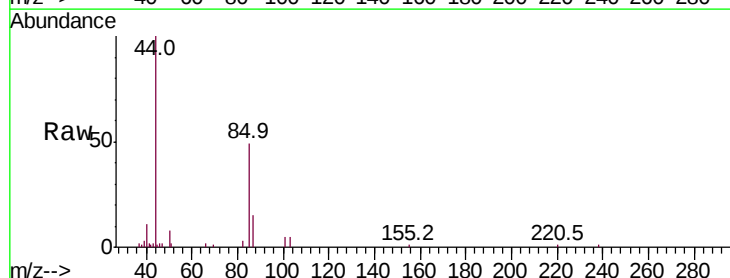
Acq: 21 Nov 2018 1:55

Tgt Ion: 85 Resp: 10617

Ion Ratio Lower Upper

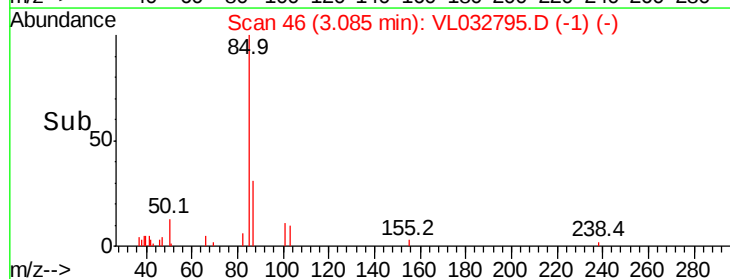
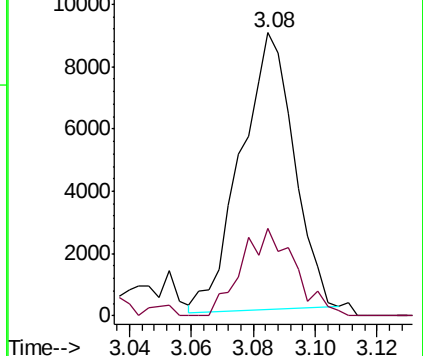
85 100

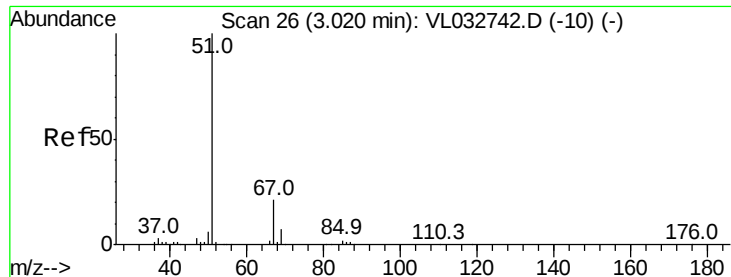
87 31.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.714 ppbv

RT: 2.99 min Scan# 18

Delta R.T. -0.03 min

Lab File: VL032795.D

Acq: 21 Nov 2018 1:55

Instrument :

MSVOA_L

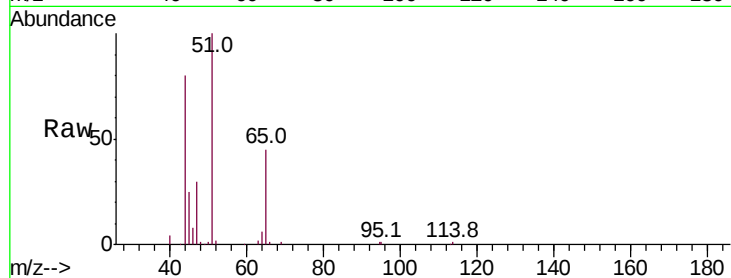
ClientSampleId :

Tot Ion: 51 Resp: 73175

Ion Ratio Lower Upper

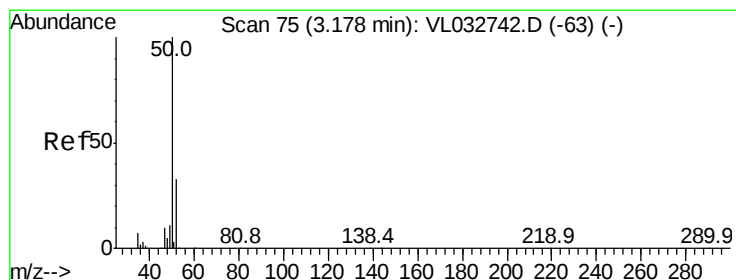
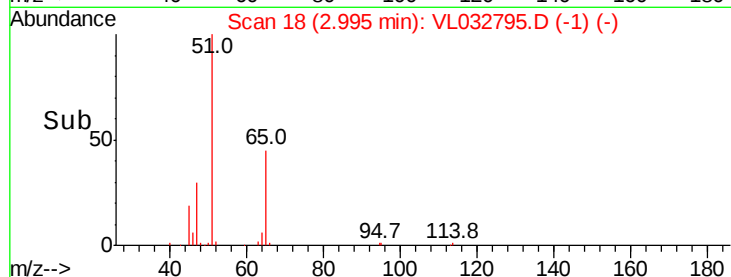
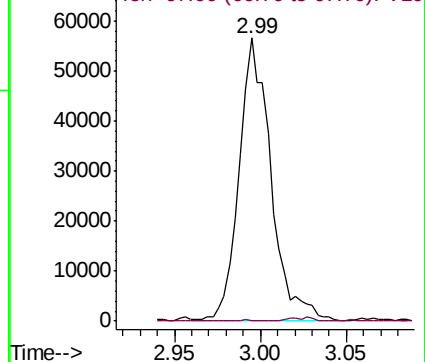
51 100

67 1.2 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: 0.043 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL032795.D

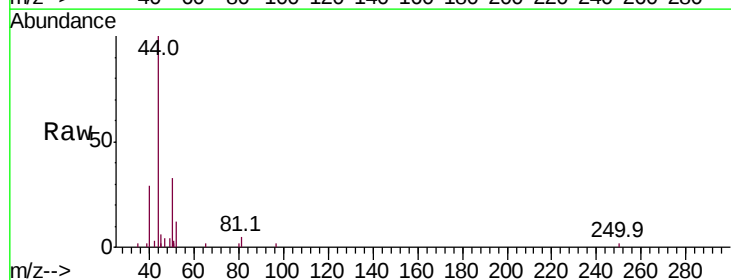
Acq: 21 Nov 2018 1:55

Tgt Ion: 50 Resp: 2440

Ion Ratio Lower Upper

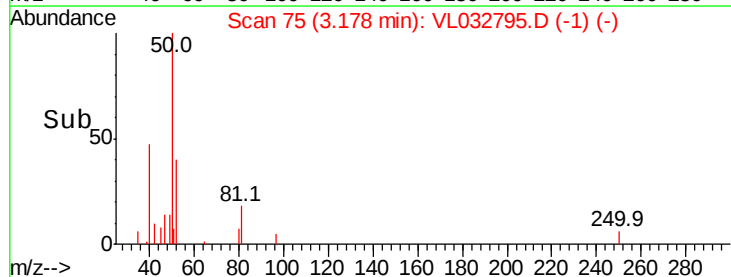
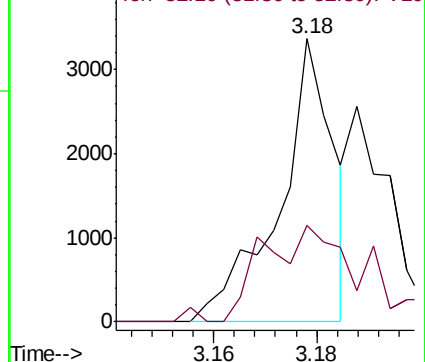
50 100

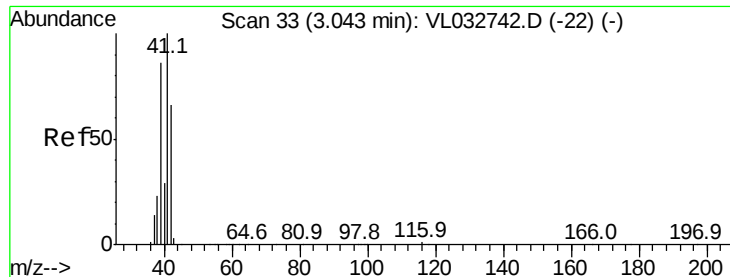
52 29.0 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.287 ppbv

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032795.D

Acq: 21 Nov 2018 1:55

Instrument :

MSVOA_L

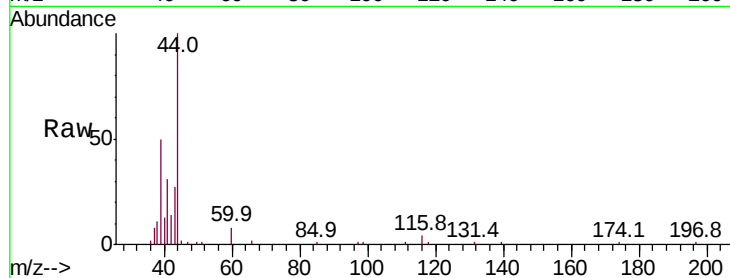
ClientSampleId :

Tot Ion: 41 Resp: 11781

Ion Ratio Lower Upper

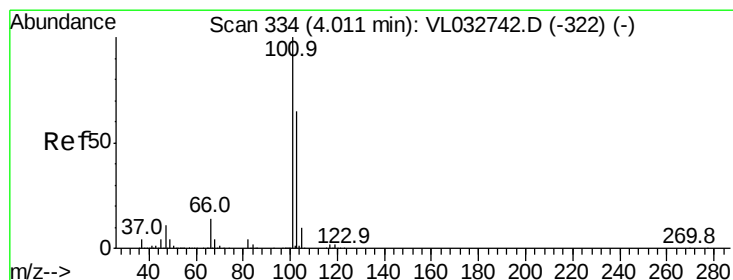
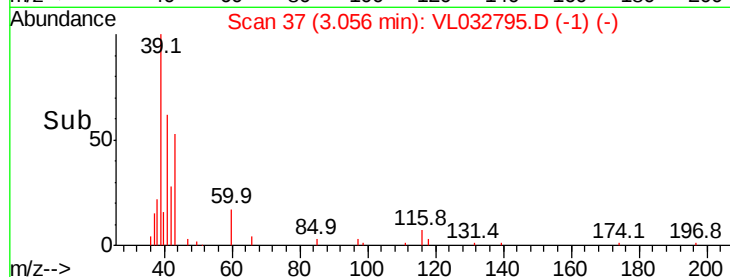
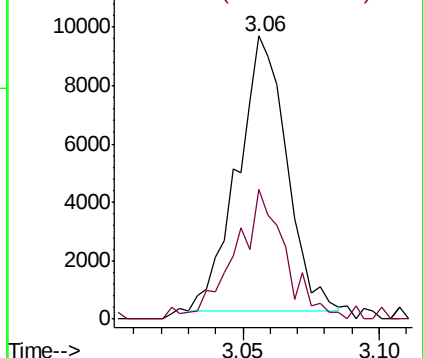
41 100

42 50.2 55.0 82.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.229 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032795.D

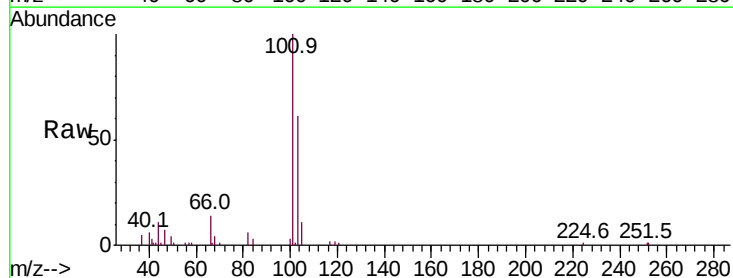
Acq: 21 Nov 2018 1:55

Tgt Ion: 101 Resp: 40123

Ion Ratio Lower Upper

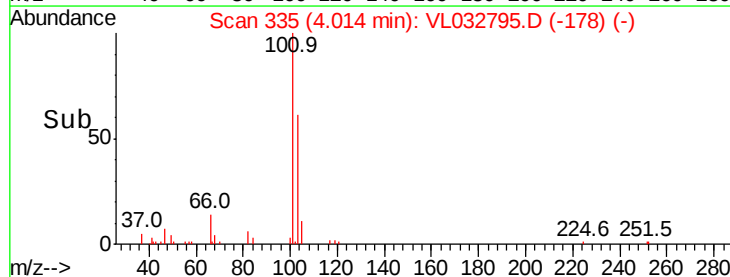
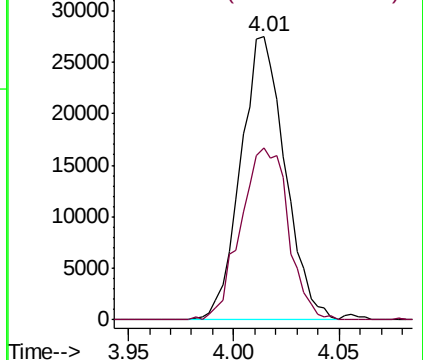
101 100

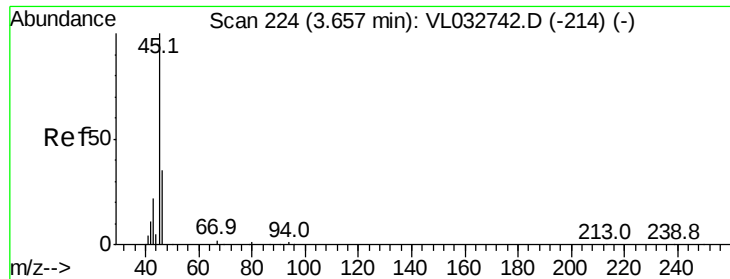
103 60.8 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 5.914 ppbv

RT: 3.67 min Scan# 228

Delta R.T. 0.01 min

Lab File: VL032795.D

Acq: 21 Nov 2018 1:55

Instrument :

MSVOA_L

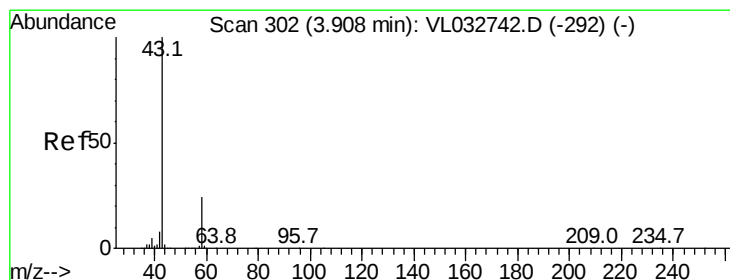
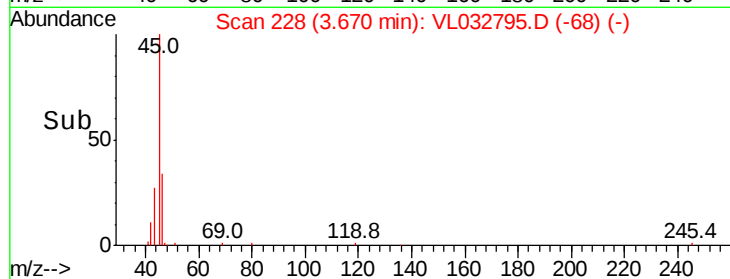
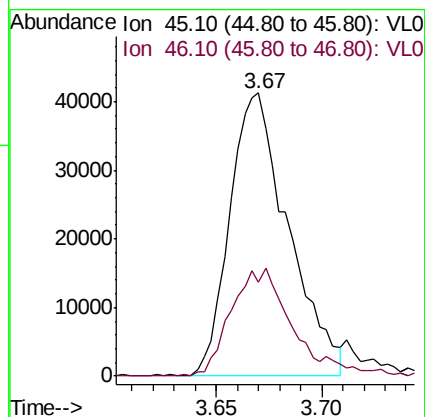
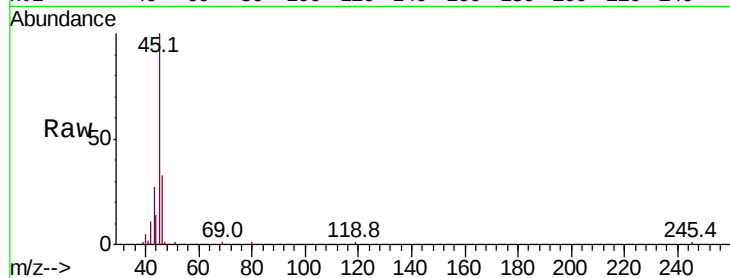
ClientSampleId :

Tot Ion: 45 Resp: 79447

Ion Ratio Lower Upper

45 100

46 41.2 14.5 57.9



#15

Acetone

Concen: 0.739 ppbv

RT: 3.93 min Scan# 308

Delta R.T. 0.02 min

Lab File: VL032795.D

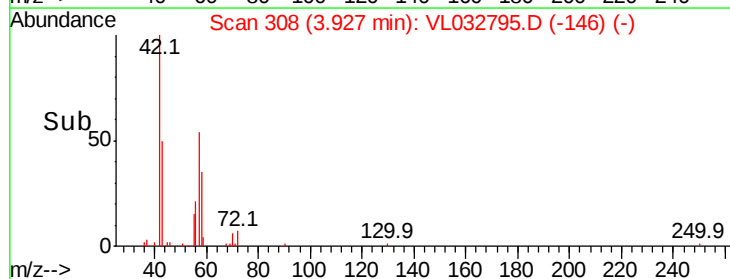
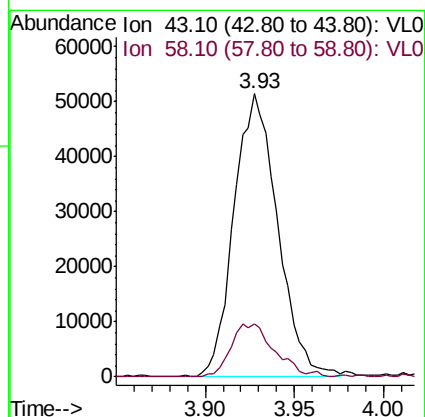
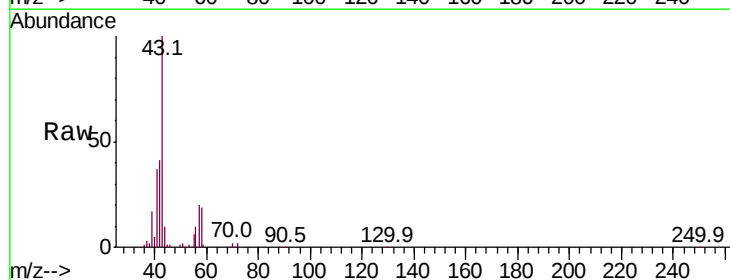
Acq: 21 Nov 2018 1:55

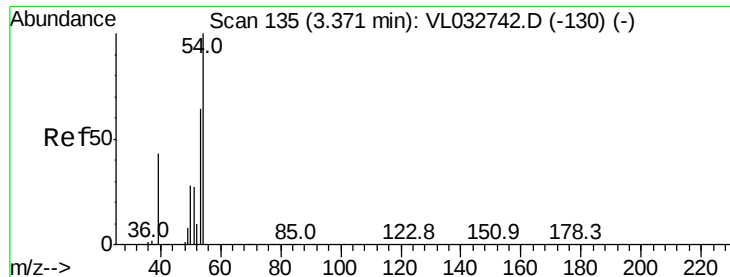
Tgt Ion: 43 Resp: 87250

Ion Ratio Lower Upper

43 100

58 19.1 21.1 31.7#

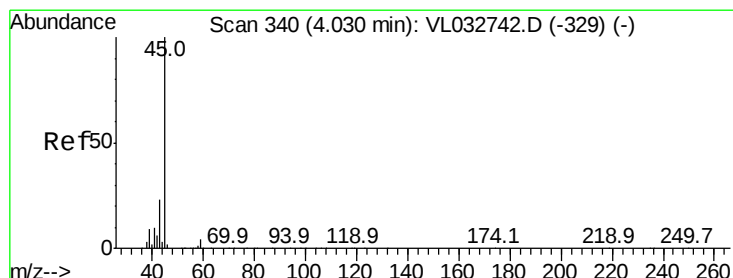
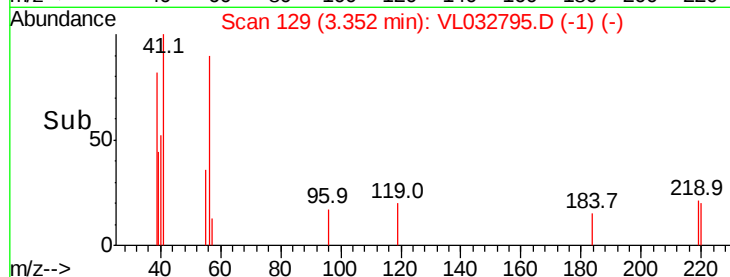
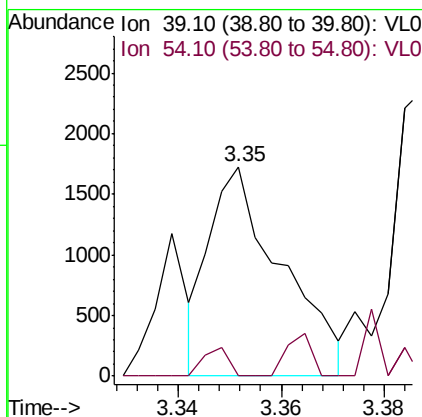
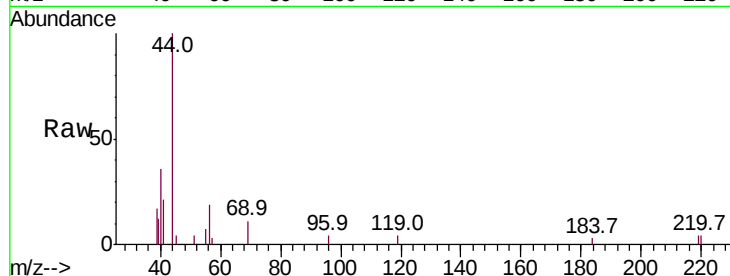




#16
 1,3-Butadiene
 Concen: 0.037 ppbv
 RT: 3.35 min Scan# 129
 Delta R.T. -0.02 min
 Lab File: VL032795.D
 Acq: 21 Nov 2018 1:55

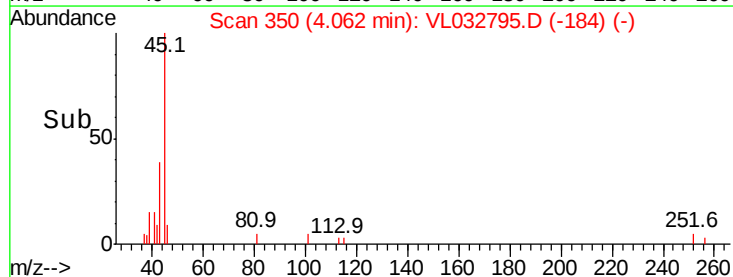
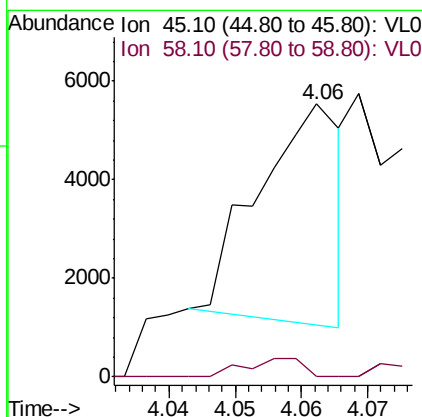
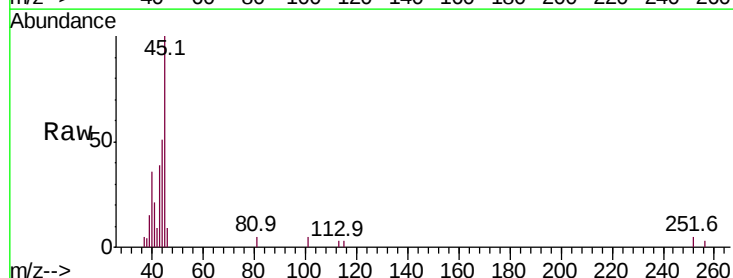
Instrument :
 MSVOA_L
 ClientSampled :

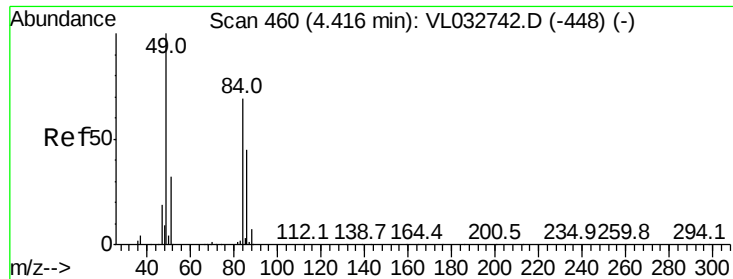
Tot Ion: 39 Resp: 1681
 Ion Ratio Lower Upper
 39 100
 54 11.7 68.9 103.3#



#19
 Isopropyl Alcohol
 Concen: 0.049 ppbv
 RT: 4.06 min Scan# 350
 Delta R.T. 0.03 min
 Lab File: VL032795.D
 Acq: 21 Nov 2018 1:55

Tgt Ion: 45 Resp: 3826
 Ion Ratio Lower Upper
 45 100
 58 432.6 1.4 2.0#

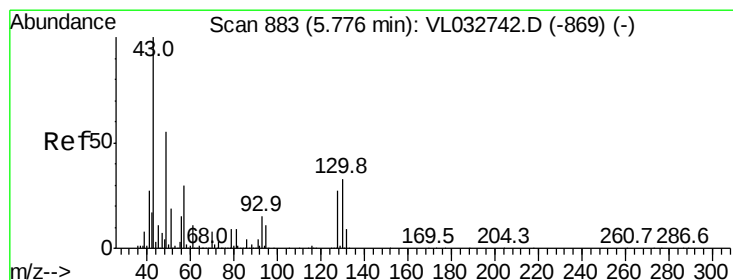
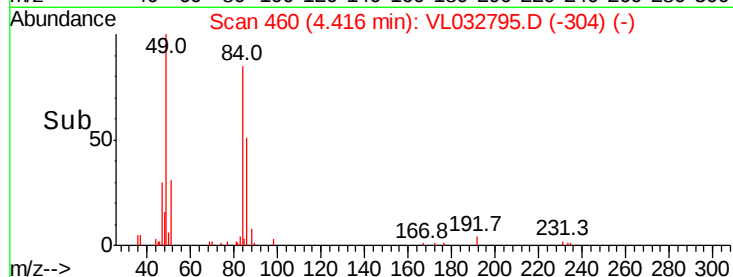
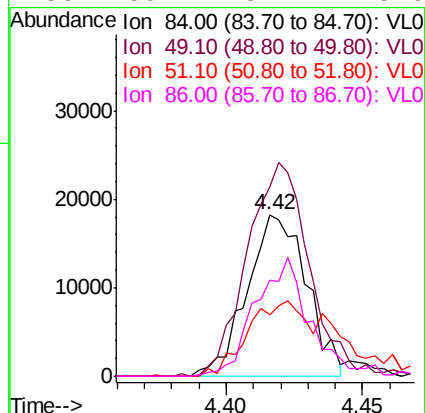
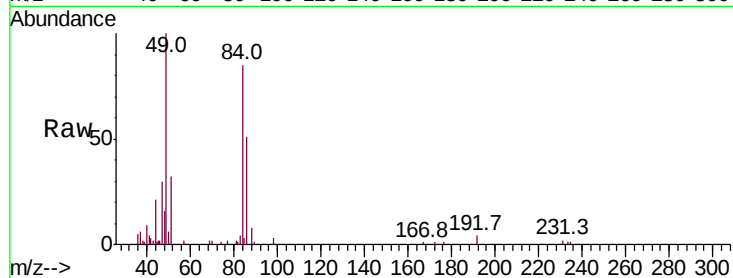




#20
Methvlene Chloride
Concen: 0.452 ppbv
RT: 4.42 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL032795.D
Acq: 21 Nov 2018 1:55

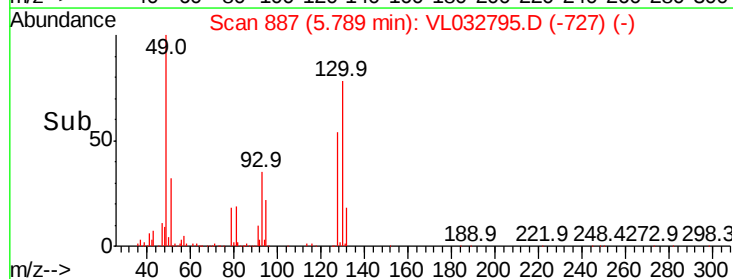
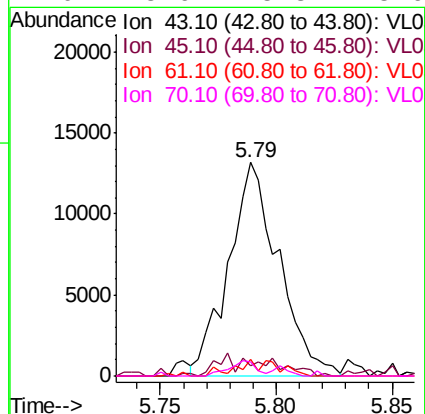
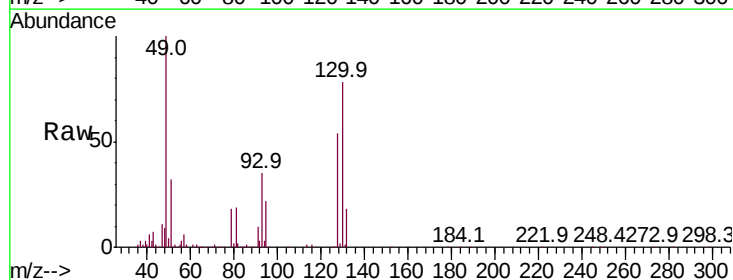
Instrument :
MSVOA_L
ClientSampleId :

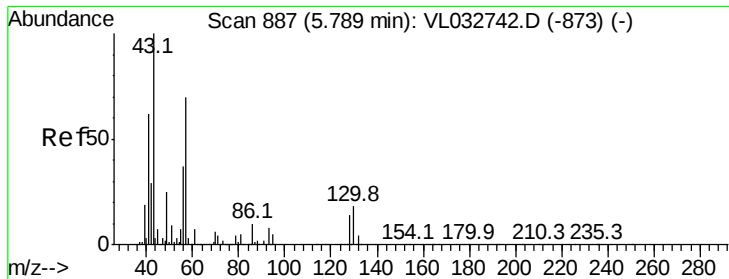
Tot Ion:	84	Resp:	27614
Ion	Ratio	Lower	Upper
84	100		
49	117.8	115.8	173.6
51	38.0	36.9	55.3
86	59.7	52.4	78.6



#25
Ethyl Acetate
Concen: 0.071 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.01 min
Lab File: VL032795.D
Acq: 21 Nov 2018 1:55

Tgt Ion:	43	Resp:	19629
Ion	Ratio	Lower	Upper
43	100		
45	12.4	7.9	11.9#
61	6.5	7.8	11.6#
70	5.6	5.8	8.6#





#26

Hexane

Concen: 0.137 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.00 min

Lab File: VL032795.D

Acq: 21 Nov 2018 1:55

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 16784

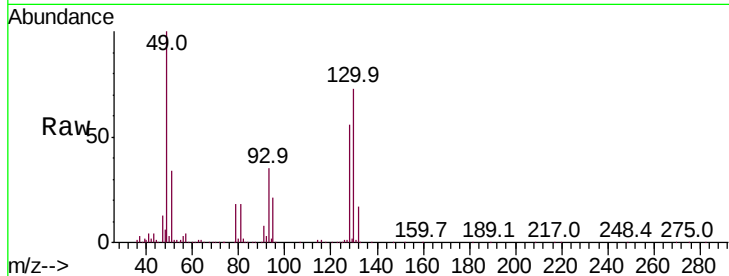
Ion Ratio Lower Upper

57 100

41 105.5 70.3 105.5#

43 124.7 174.0 261.0#

56 73.8 42.3 63.5#

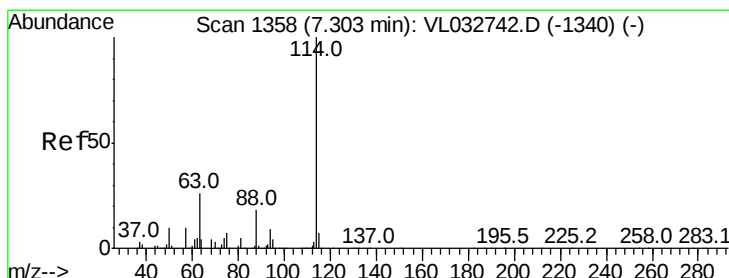
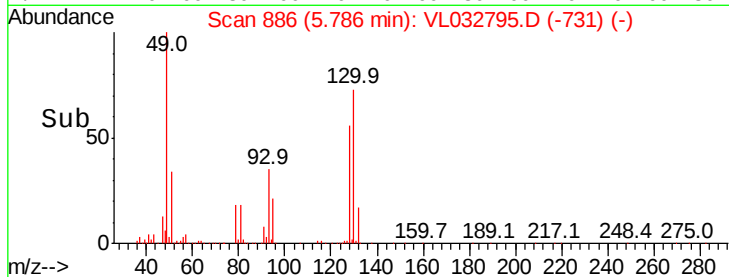
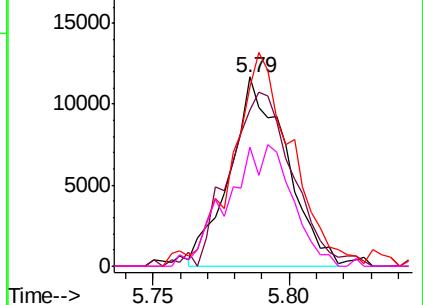


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.30 min Scan# 1356

Delta R.T. -0.01 min

Lab File: VL032795.D

Acq: 21 Nov 2018 1:55

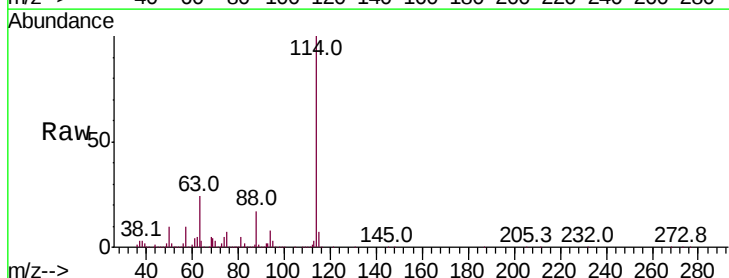
Tgt Ion:114 Resp: 3291423

Ion Ratio Lower Upper

114 100

63 25.1 20.9 31.3

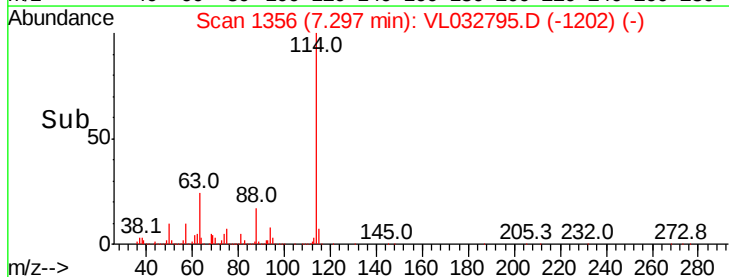
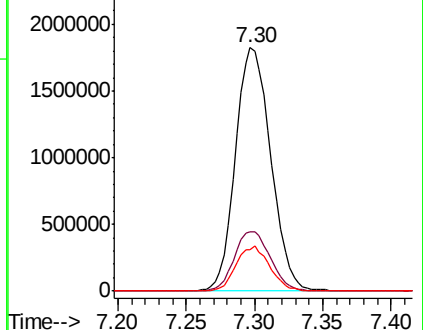
88 17.8 14.4 21.6

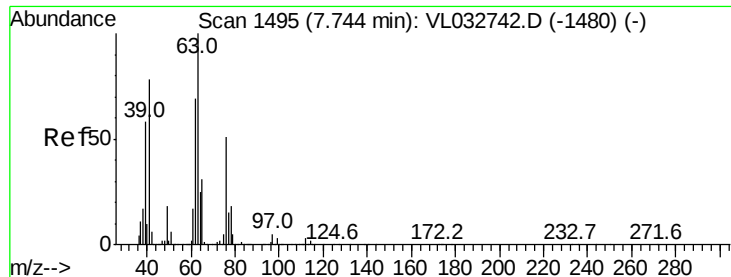


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#39

1,2-Dichloropropane

Concen: 8.225 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL032795.D

Acq: 21 Nov 2018 1:55

Instrument :

MSVOA_L

ClientSampleId :

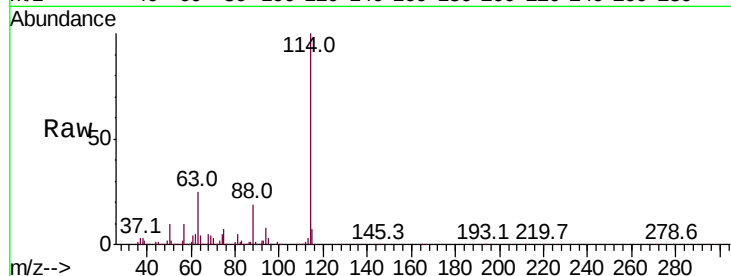
Tot Ion: 63 Resp: 821356

Ion Ratio Lower Upper

63 100

41 0.1 62.0 93.0#

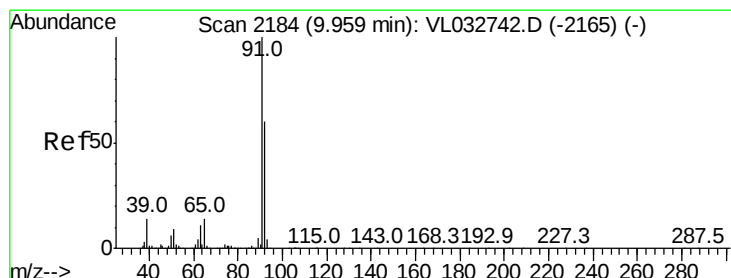
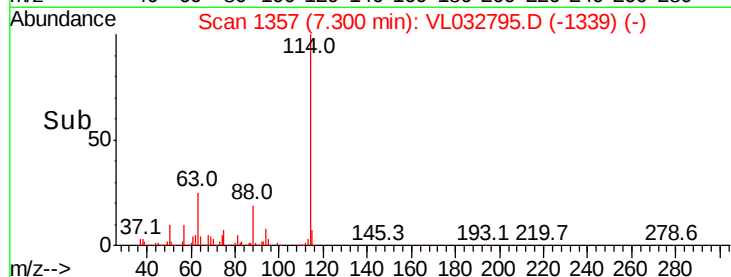
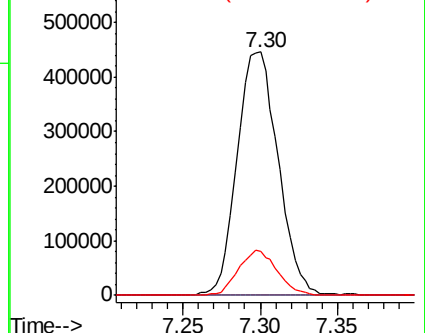
62 18.1 55.4 83.2#



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: 0.324 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. 0.00 min

Lab File: VL032795.D

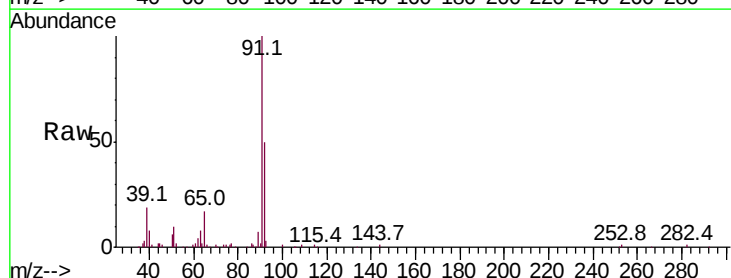
Acq: 21 Nov 2018 1:55

Tgt Ion: 91 Resp: 88599

Ion Ratio Lower Upper

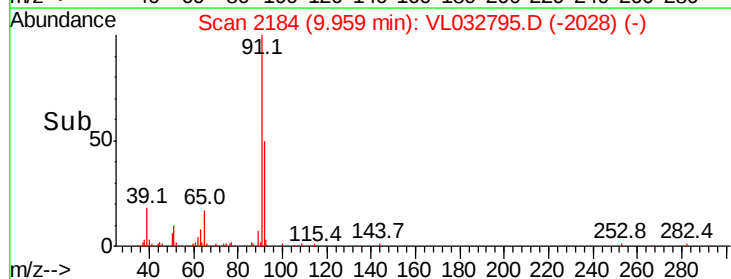
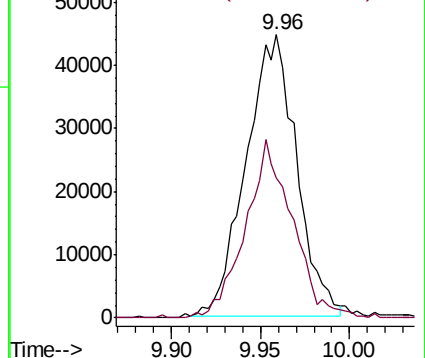
91 100

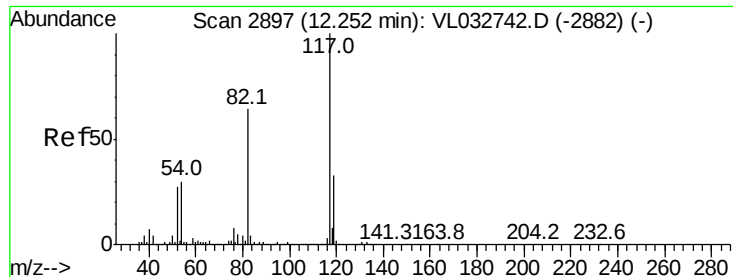
92 59.1 47.9 71.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

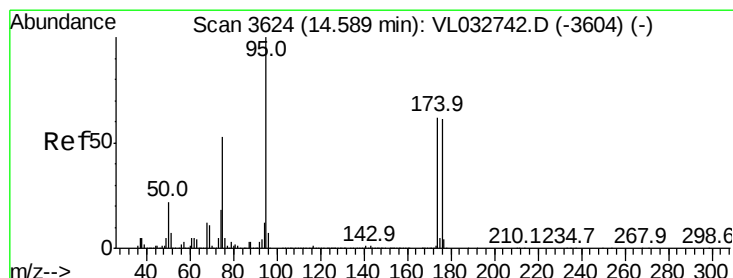
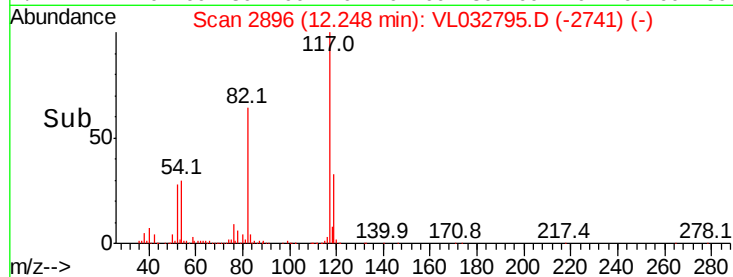
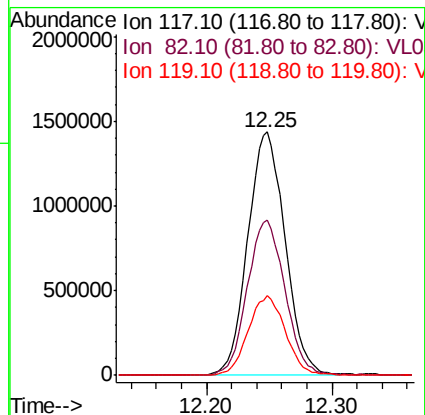
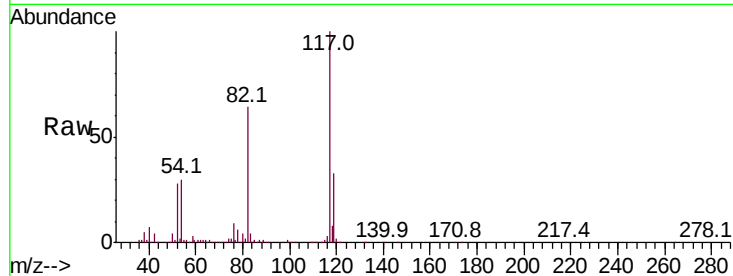




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032795.D
Acq: 21 Nov 2018 1:55

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2979010
Ion Ratio Lower Upper
117 100
82 64.8 51.0 76.6
119 32.8 28.0 42.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.817 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL032795.D
Acq: 21 Nov 2018 1:55

Tgt Ion: 95 Resp: 2187324
Ion Ratio Lower Upper
95 100
174 67.5 50.7 76.1
175 5.0 3.8 5.6

