

Data File : VL032747.D
Acq On : 14 Nov 2018 5:35
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Nov 14 06:06:36 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Nov 14 05:38:10 2018
QLast Update : Wed Nov 14 05:38:10 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1592268	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3922790	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3530360	10.00	ppbv	0.00

System Monitoring Compounds

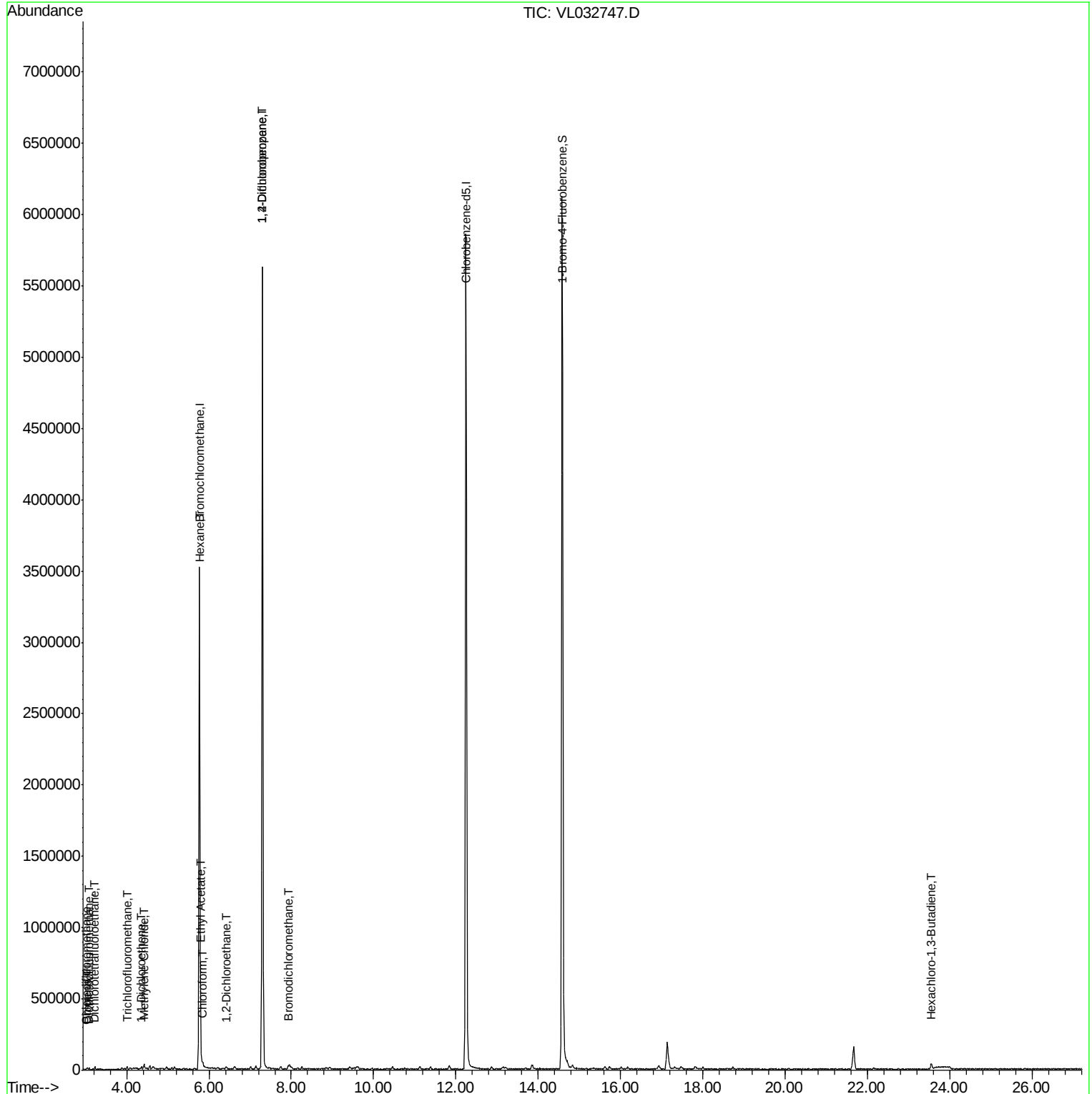
68) 1-Bromo-4-Fluorobenzene	14.58	95	2848767	10.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.10%

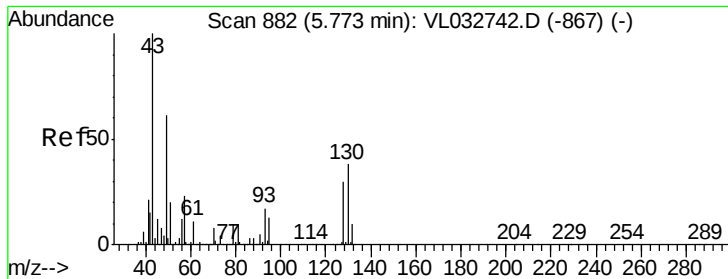
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	9961	0.055	ppbv	98
3) Chlorodifluoromethane	3.02	51	6105	0.048	ppbv	96
8) Dichlorotetrafluoroethane	3.23	85	8087	0.047	ppbv	100
9) Propene	3.04	41	2147	0.042	ppbv	94
11) Trichlorofluoromethane	4.01	101	8284	0.038	ppbv	97
18) 1,1-Dichloroethene	4.36	96	3448	0.044	ppbv #	30
20) Methylene Chloride	4.42	84	8984	0.119	ppbv #	80
25) Ethyl Acetate	5.80	43	12121	0.036	ppbv #	84
26) Hexane	5.78	57	5764	0.036	ppbv #	87
29) Chloroform	5.86	83	10491	0.041	ppbv	97
37) 1,2-Dichloroethane	6.42	62	7222	0.037	ppbv #	96
39) 1,2-Dichloropropane	7.29	63	1000630	8.180	ppbv #	22
42) Bromodichloromethane	7.92	83	9763	0.035	ppbv #	73
78) Hexachloro-1,3-Butadiene	23.54	225	4110	0.037	ppbv #	19

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032747.D

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MSVOA_L

ClientSampleId :

VSTDIC0.03

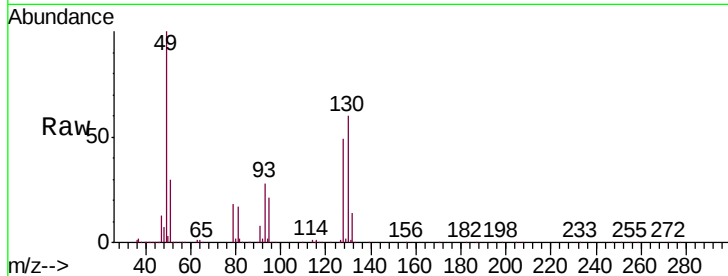
Tgt Ion: 49 Resp: 1592268

Ion Ratio Lower Upper

49 100

128 50.9 24.9 74.6

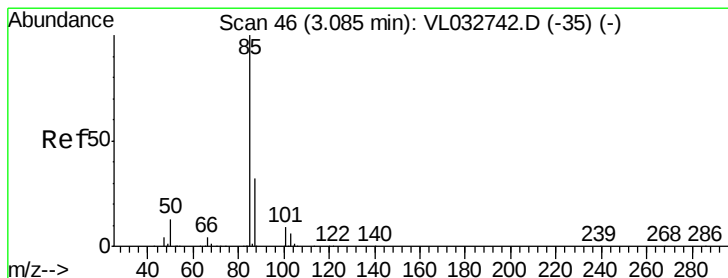
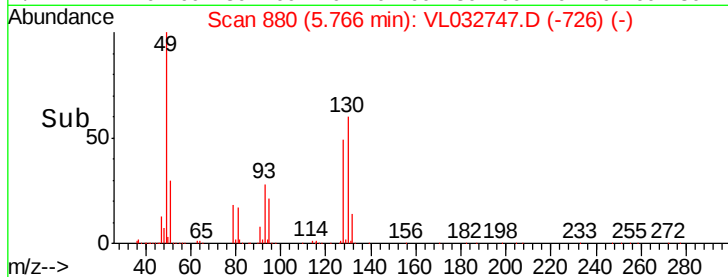
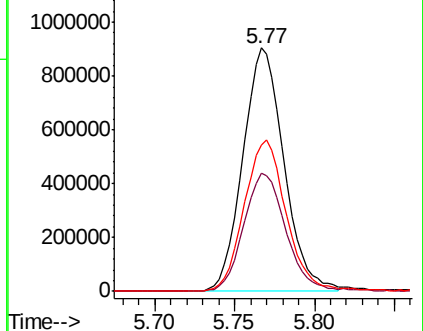
130 65.0 31.4 94.2



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: 0.055 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032747.D

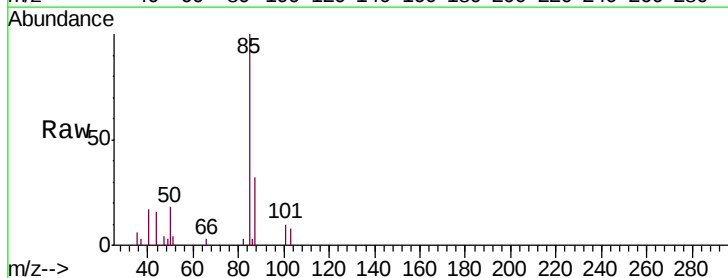
Acq: 14 Nov 2018 5:35

Tgt Ion: 85 Resp: 9961

Ion Ratio Lower Upper

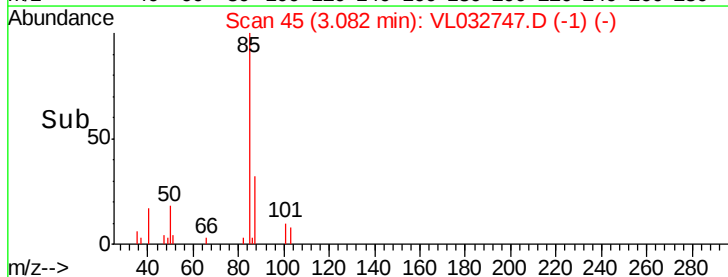
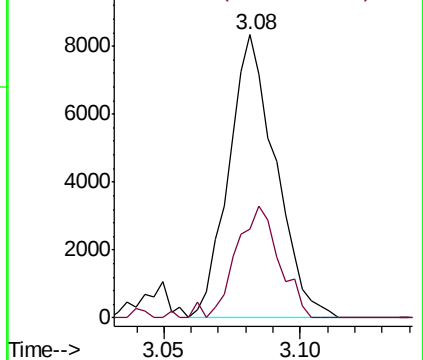
85 100

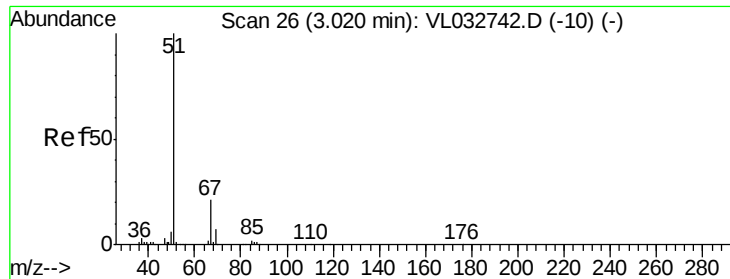
87 31.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

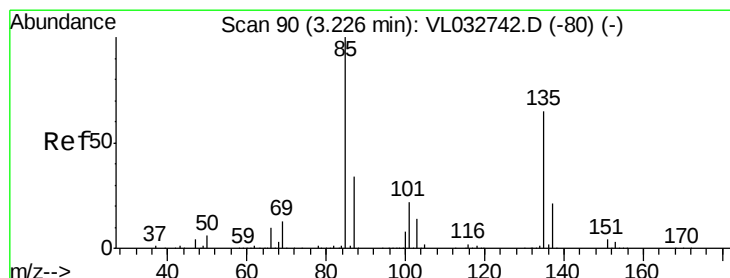
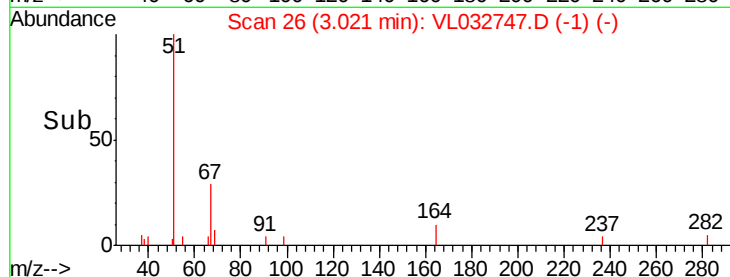
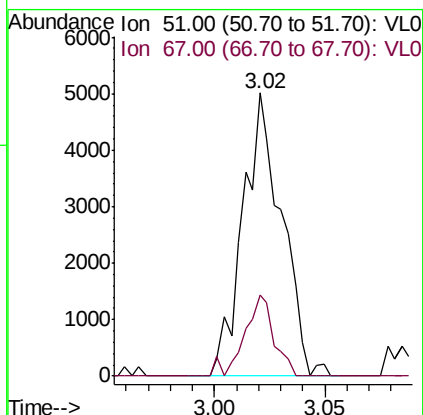
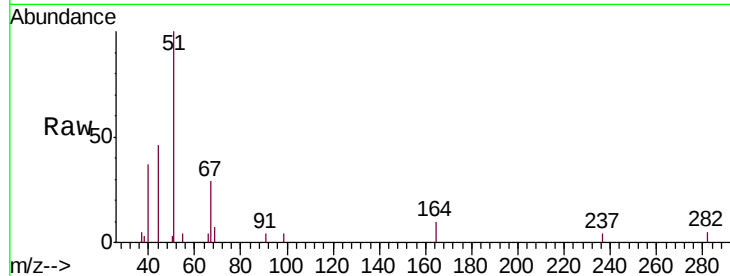




#3
 Chlorodifluoromethane
 Concen: 0.048 ppbv
 RT: 3.02 min Scan# 26
 Delta R.T. 0.00 min
 Lab File: VL032747.D
 Acq: 14 Nov 2018 5:35

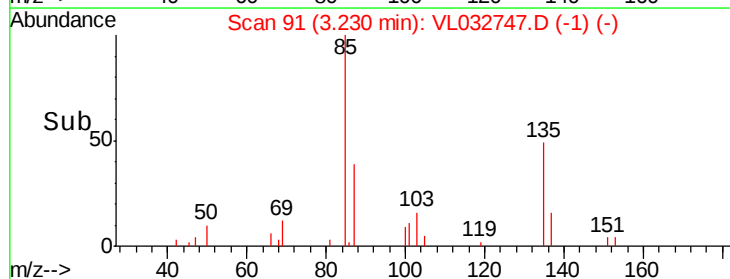
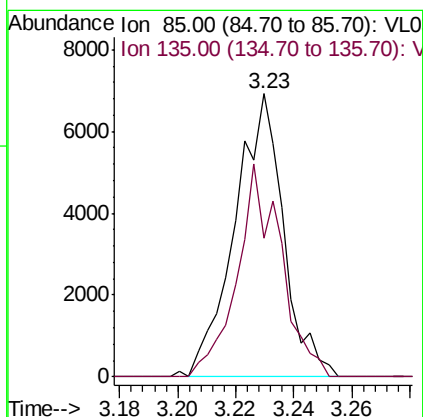
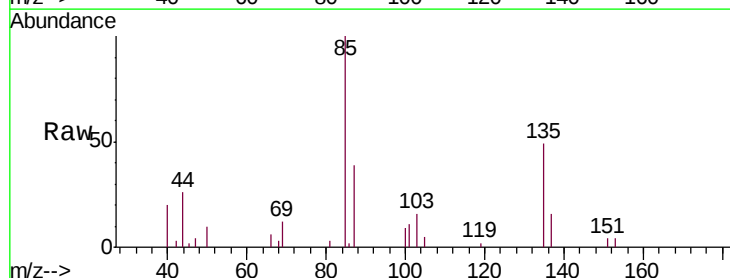
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

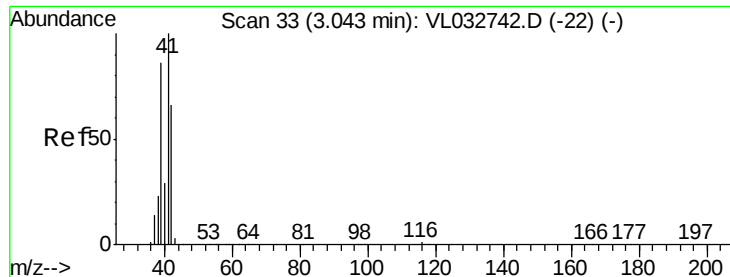
Tgt Ion: 51 Resp: 6105
 Ion Ratio Lower Upper
 51 100
 67 21.8 16.1 24.1



#8
 Dichlorotetrafluoroethane
 Concen: 0.047 ppbv
 RT: 3.23 min Scan# 91
 Delta R.T. 0.00 min
 Lab File: VL032747.D
 Acq: 14 Nov 2018 5:35

Tgt Ion: 85 Resp: 8087
 Ion Ratio Lower Upper
 85 100
 135 67.4 53.8 80.8





#9

Propene

Concen: 0.042 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Instrument :

MSVOA_L

ClientSampleId :

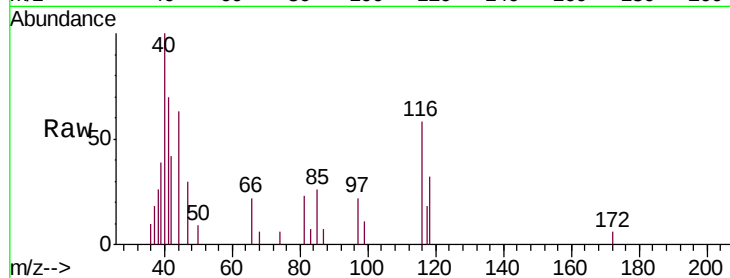
VSTDIC0.03

Tgt Ion: 41 Resp: 2147

Ion Ratio Lower Upper

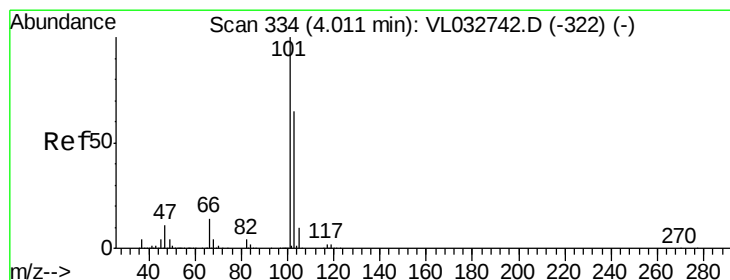
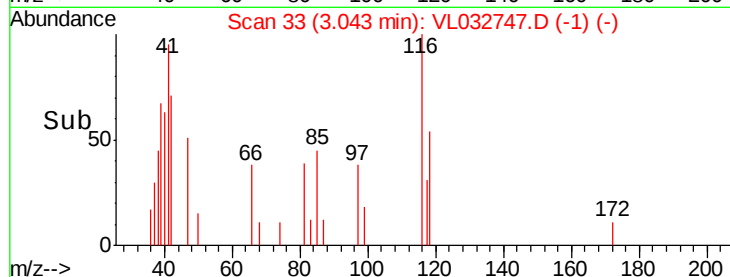
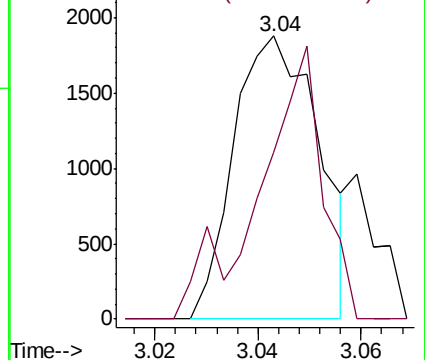
41 100

42 73.7 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: 0.038 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032747.D

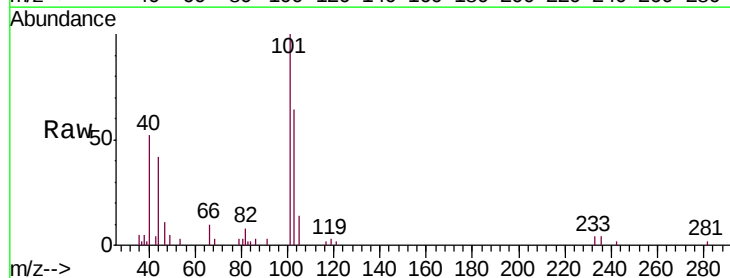
Acq: 14 Nov 2018 5:35

Tgt Ion: 101 Resp: 8284

Ion Ratio Lower Upper

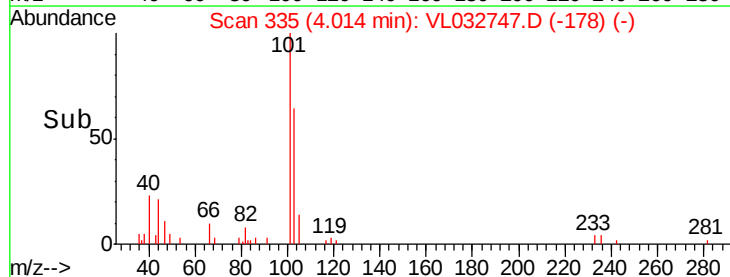
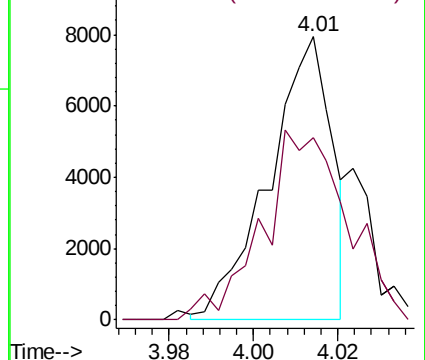
101 100

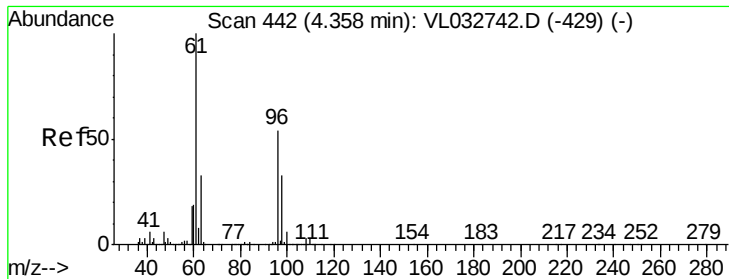
103 61.9 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#18

1,1-Dichloroethene

Concen: 0.044 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.00 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

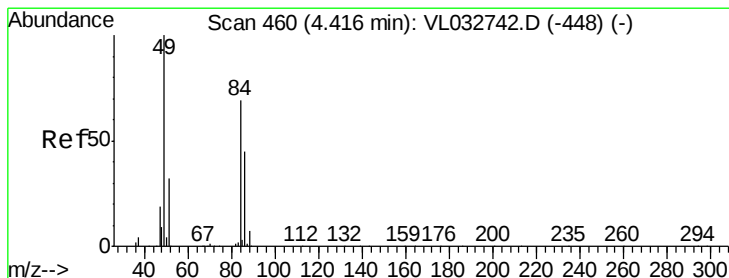
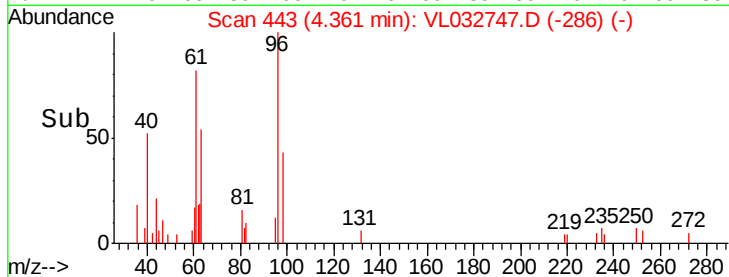
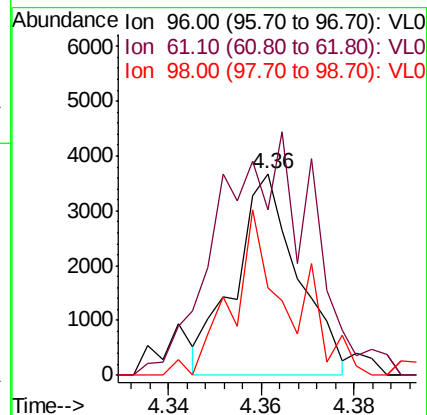
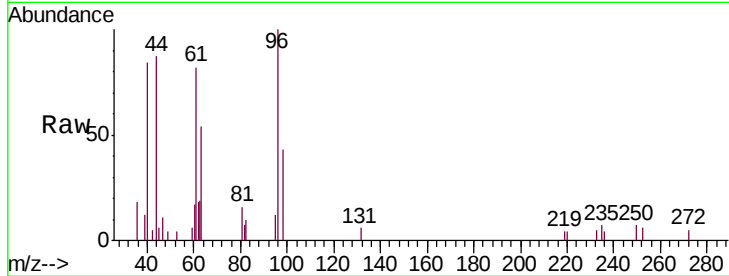
Tgt Ion: 96 Resp: 3448

Ion Ratio Lower Upper

96 100

61 59.9 148.5 222.7#

98 46.7 48.6 72.8#



#20

Methylene Chloride

Concen: 0.119 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Tgt Ion: 84 Resp: 8984

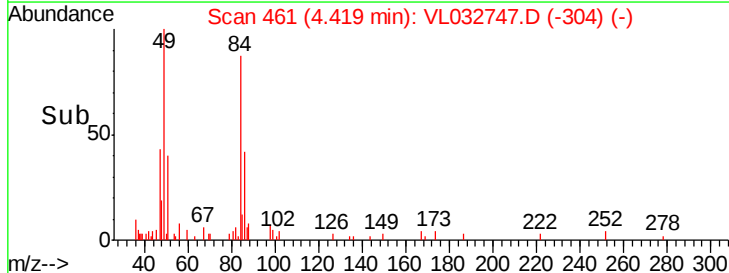
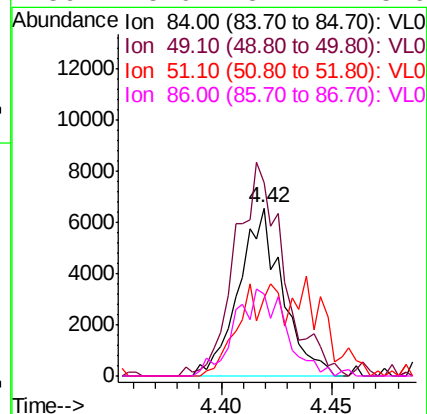
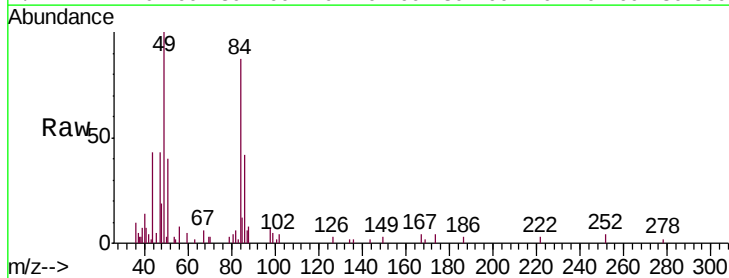
Ion Ratio Lower Upper

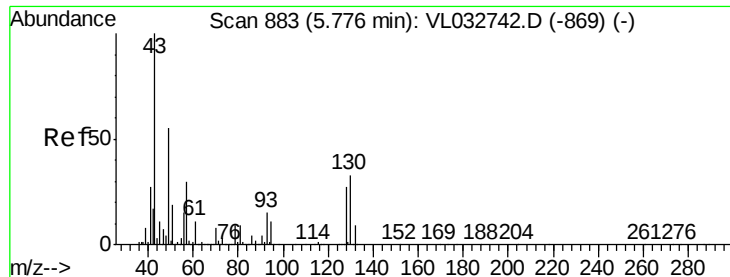
84 100

49 112.8 115.8 173.6#

51 46.6 36.9 55.3

86 48.9 52.4 78.6#





#25

Ethyl Acetate

Concen: 0.036 ppbv

RT: 5.80 min Scan# 891

Delta R.T. 0.03 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 43 Resp: 12121

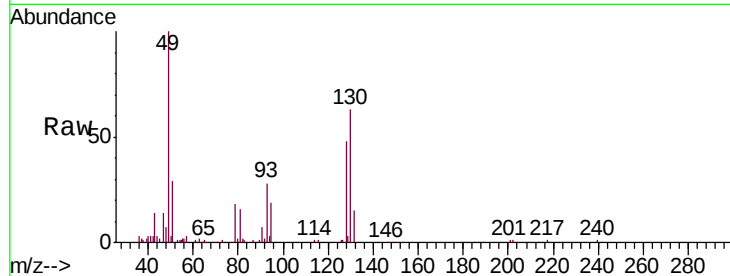
Ion Ratio Lower Upper

43 100

45 21.3 7.9 11.9#

61 12.1 7.8 11.6#

70 9.7 5.8 8.6#

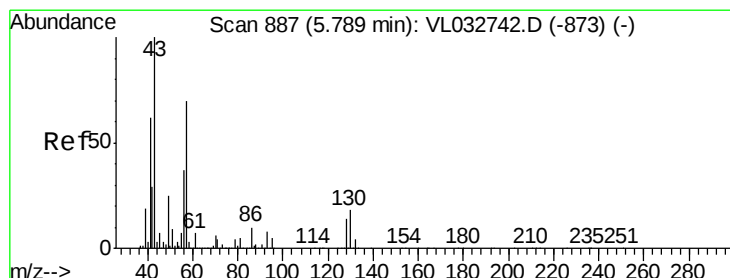
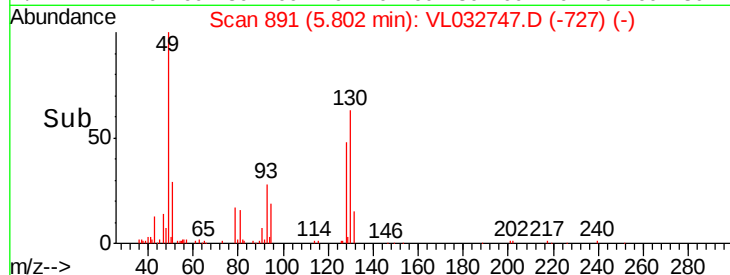
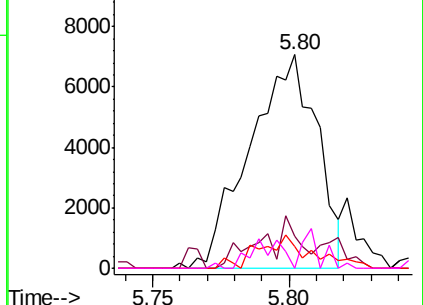


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.036 ppbv

RT: 5.78 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Tgt Ion: 57 Resp: 5764

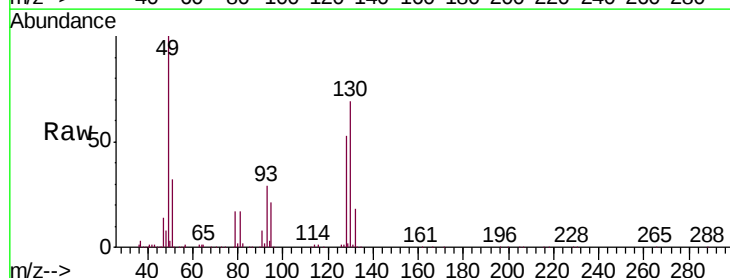
Ion Ratio Lower Upper

57 100

41 107.1 70.3 105.5#

43 231.8 174.0 261.0

56 63.0 42.3 63.5

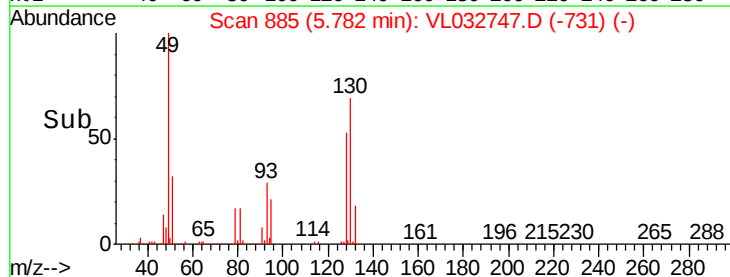
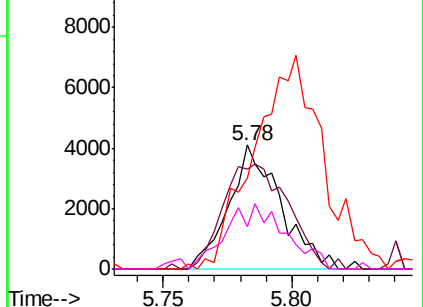


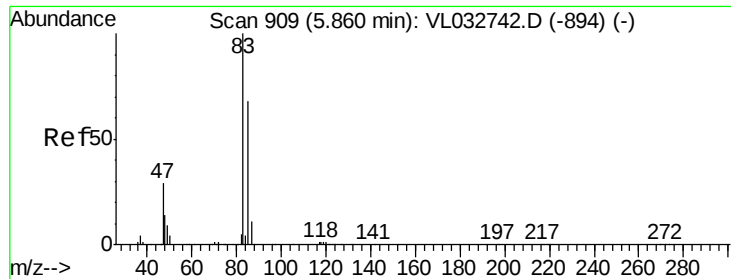
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#29

Chloroform

Concen: 0.041 ppbv

RT: 5.86 min Scan# 908

Delta R.T. -0.00 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Instrument :

MSVOA_L

ClientSampleId :

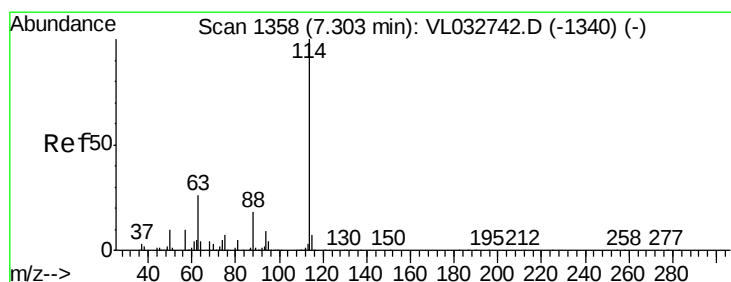
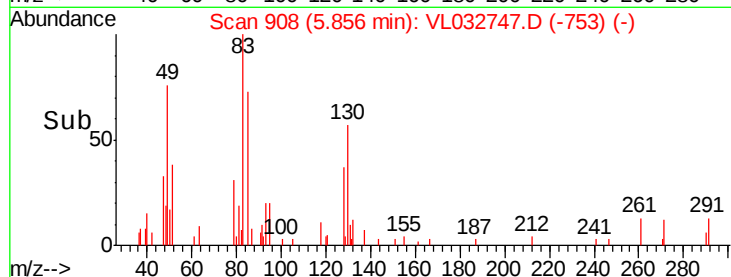
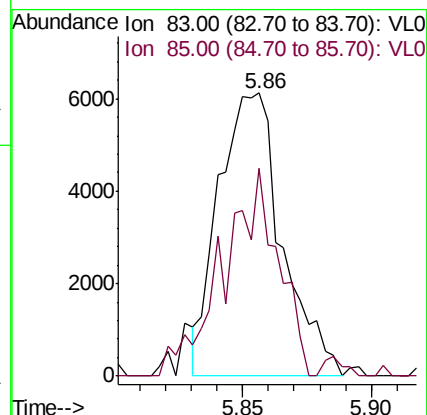
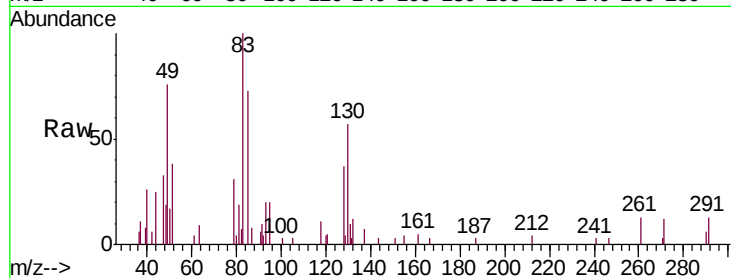
VSTDIC0.03

Tgt Ion: 83 Resp: 10491

Ion Ratio Lower Upper

83 100

85 70.3 54.2 81.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.01 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

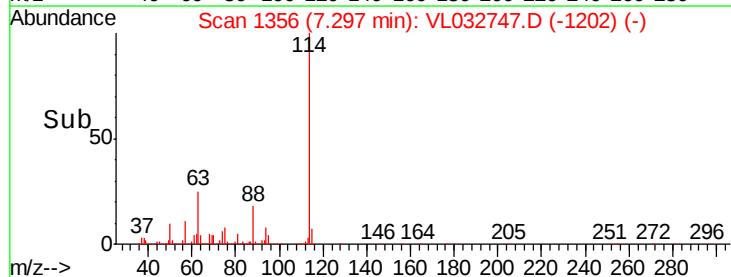
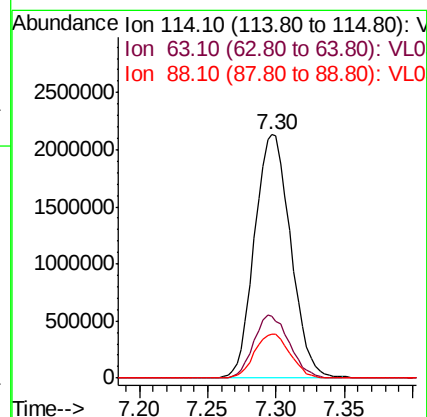
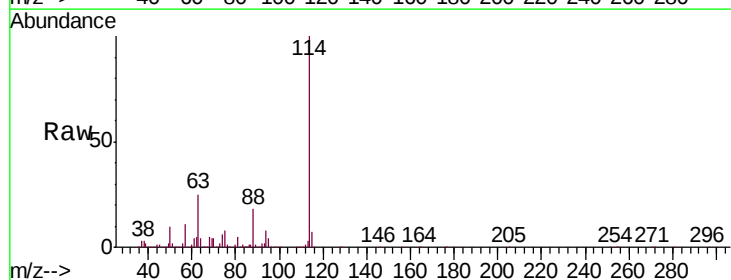
Tgt Ion: 114 Resp: 3922790

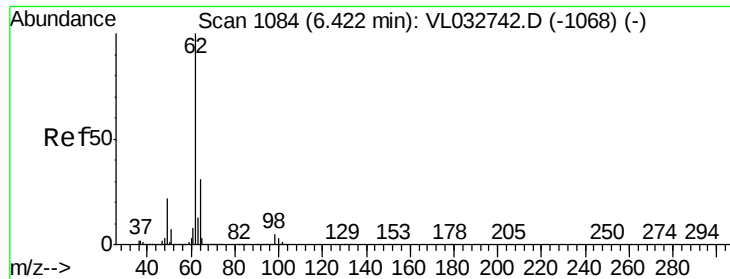
Ion Ratio Lower Upper

114 100

63 25.7 20.9 31.3

88 18.0 14.4 21.6

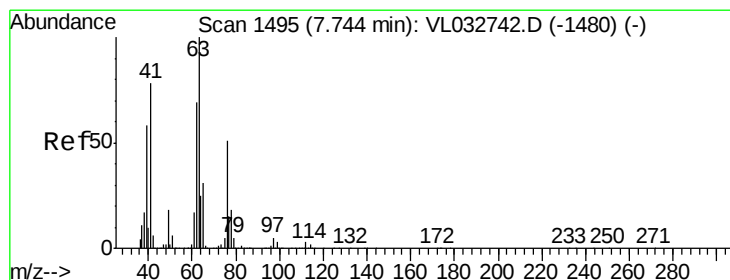
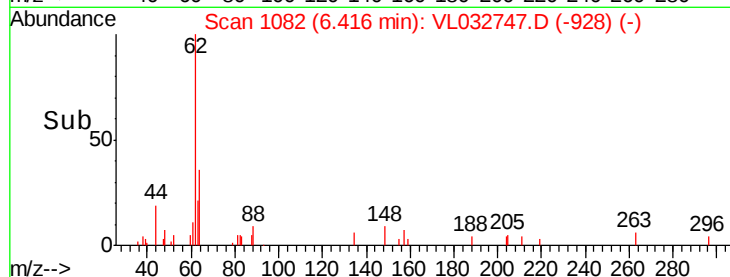
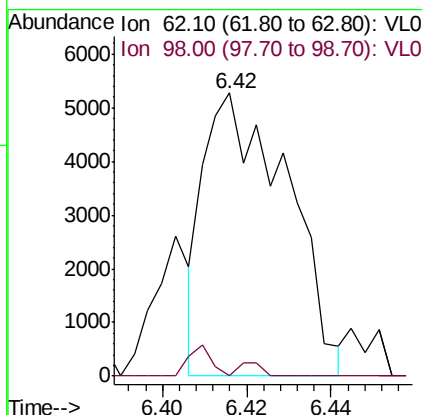
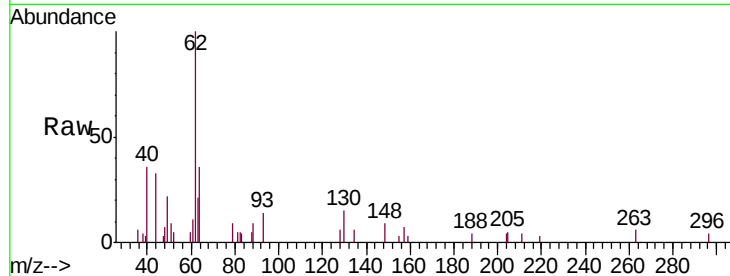




#37
 1,2-Dichloroethane
 Concen: 0.037 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. -0.01 min
 Lab File: VL032747.D
 Acq: 14 Nov 2018 5:35

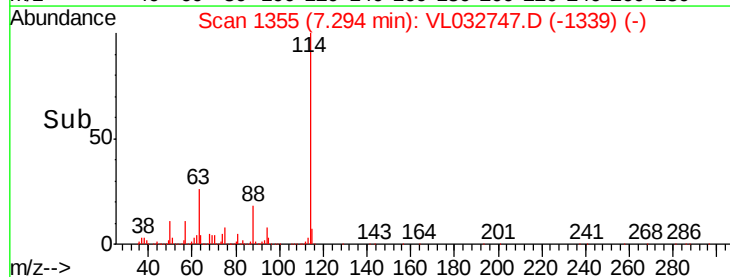
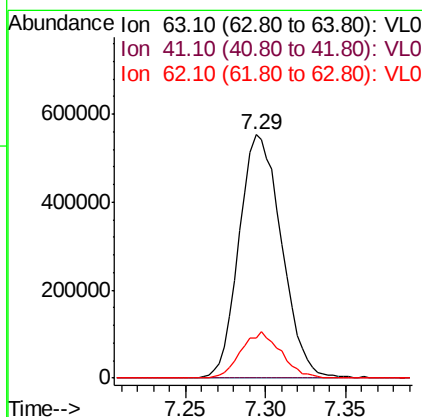
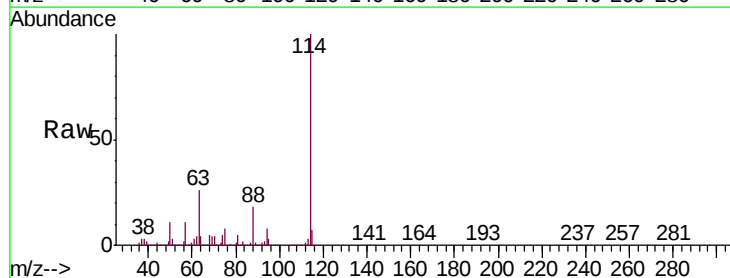
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

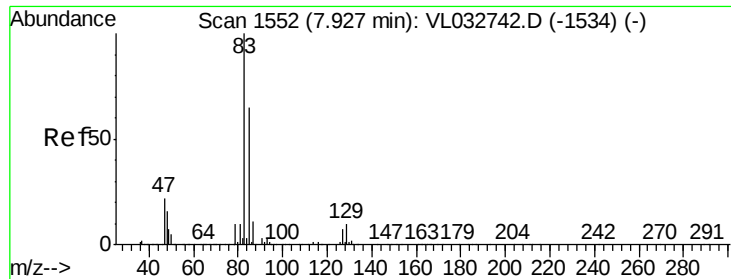
Tgt Ion: 62 Resp: 7222
 Ion Ratio Lower Upper
 62 100
 98 4.3 4.5 6.7#



#39
 1,2-Dichloropropane
 Concen: 8.180 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.45 min
 Lab File: VL032747.D
 Acq: 14 Nov 2018 5:35

Tgt Ion: 63 Resp: 1000630
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.0 93.0#
 62 16.5 55.4 83.2#





#42

Bromodichloromethane

Concen: 0.035 ppbv

RT: 7.92 min Scan# 1550

Delta R.T. -0.01 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

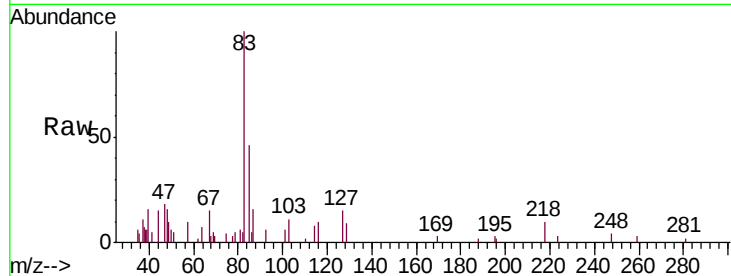
Tgt Ion: 83 Resp: 9763

Ion Ratio Lower Upper

83 100

85 43.0 51.8 77.8#

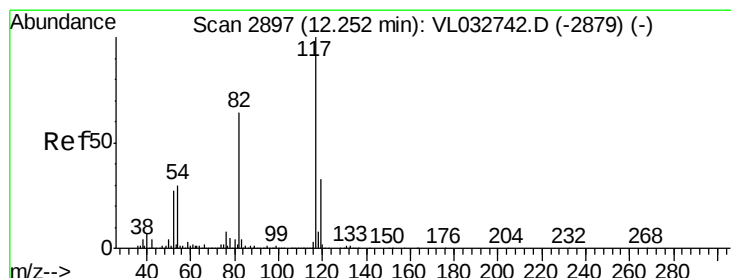
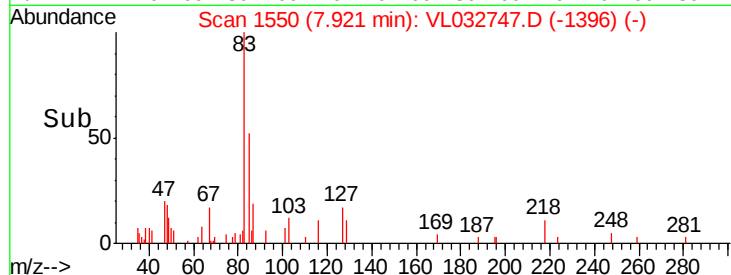
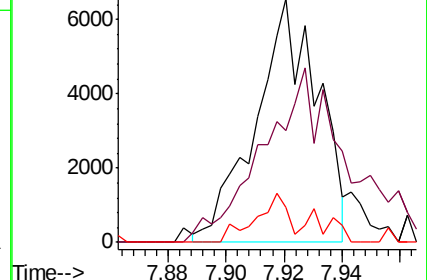
127 15.0 5.9 8.9#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

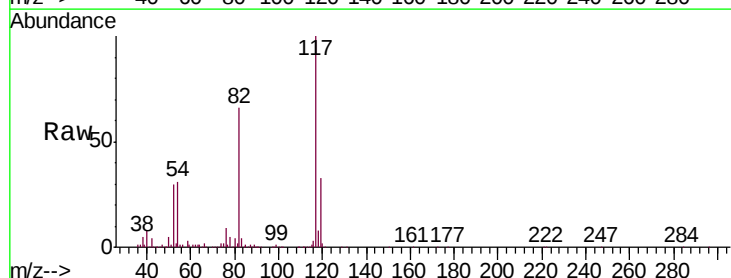
Tgt Ion: 117 Resp: 3530360

Ion Ratio Lower Upper

117 100

82 65.5 51.0 76.6

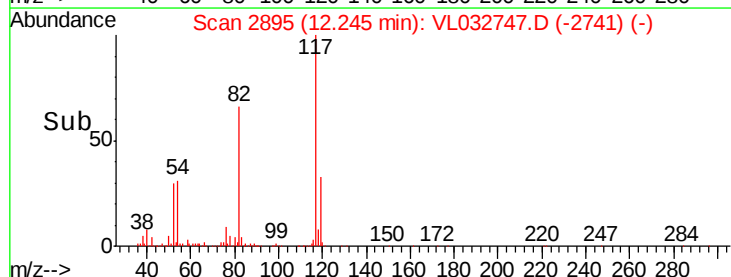
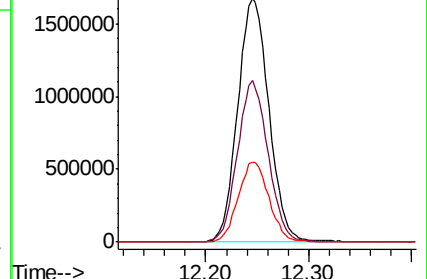
119 32.6 28.0 42.0

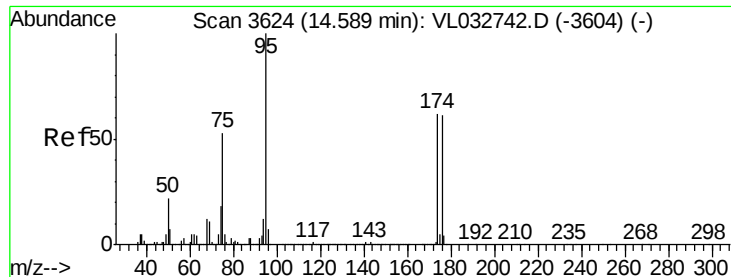


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

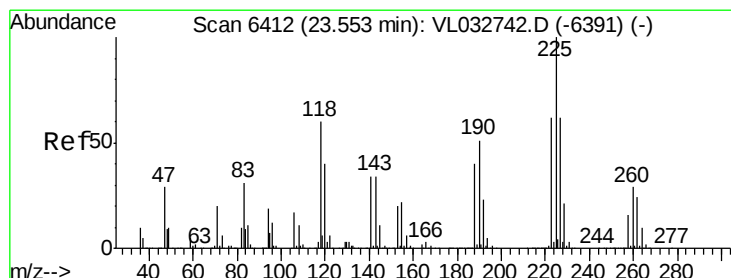
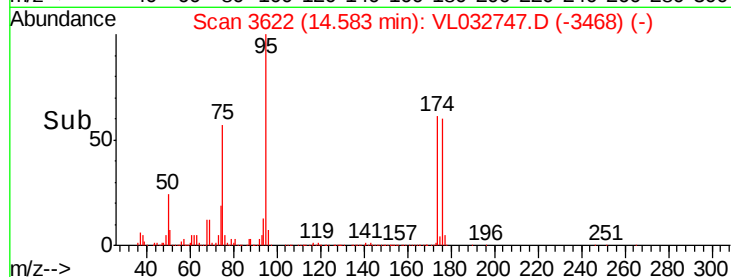
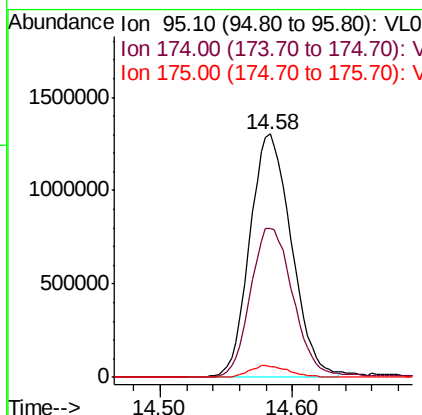
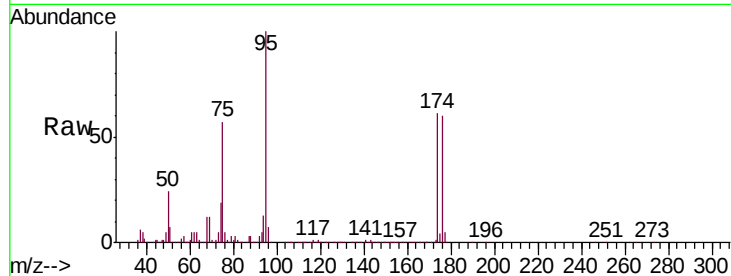




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.706 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL032747.D
 Acq: 14 Nov 2018 5:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion: 95 Resp: 2848767
 Ion Ratio Lower Upper
 95 100
 174 64.3 50.7 76.1
 175 4.7 3.8 5.6



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.037 ppbv
 RT: 23.54 min Scan# 6408
 Delta R.T. -0.01 min
 Lab File: VL032747.D
 Acq: 14 Nov 2018 5:35

Tgt Ion: 225 Resp: 4110
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.3 75.5#
 227 0.0 50.2 75.4#

