

Data File : VL032648.D
Acq On : 17 Oct 2018 19:32
Operator : SY/AP
Sample : J5500-02DL2 1000X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL2

Quant Time: Oct 18 09:55:48 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 17 08:55:11 2018
QLast Update : Wed Oct 17 08:55:11 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1179675	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2537469	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	2426287	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.60 95 1875137 10.26 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.60%

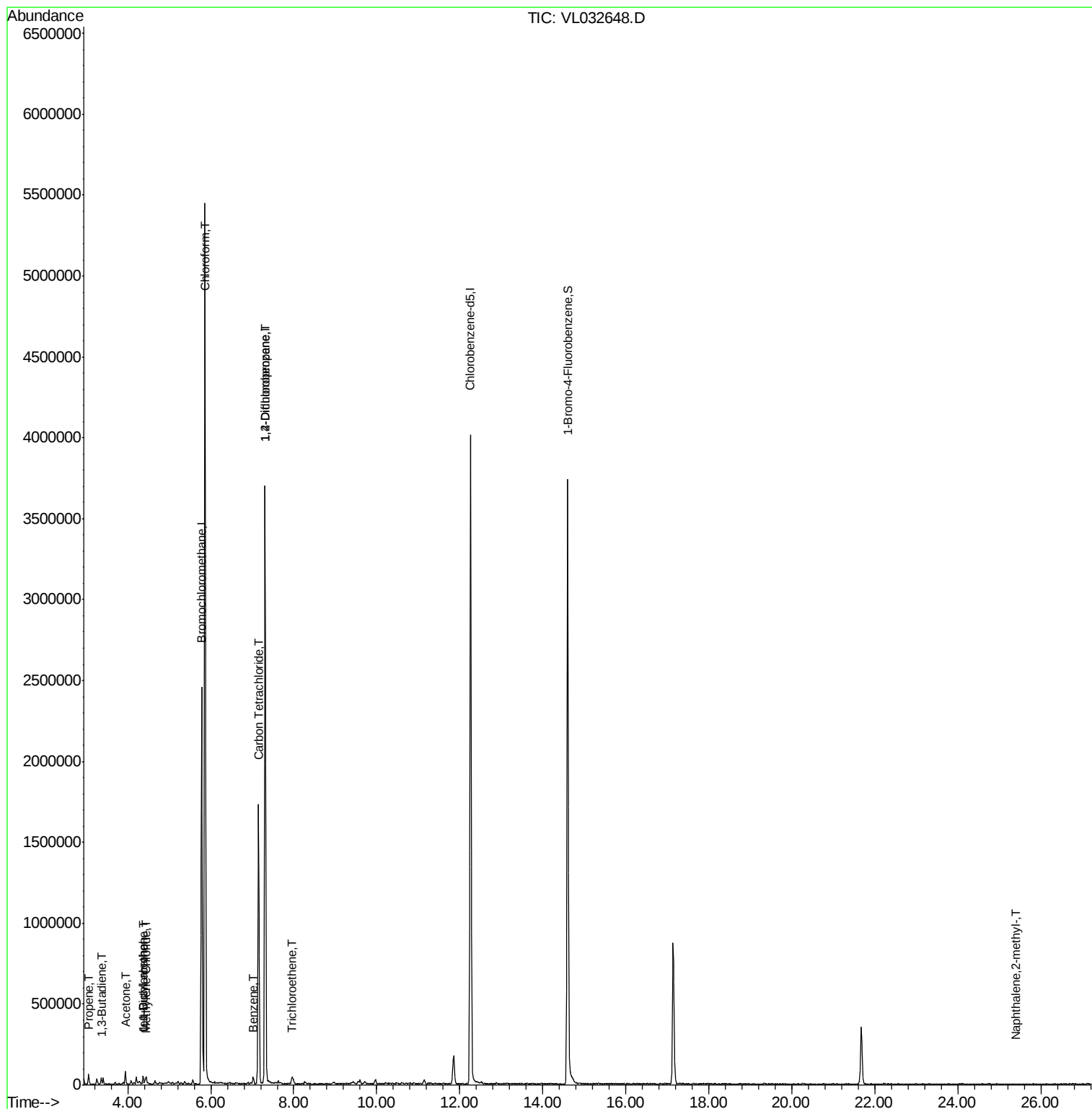
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	94	Below Cal	#	42
9) Propene	3.05	41	9097	0.251	ppbv #	42
15) Acetone	3.94	43	63800	0.608	ppbv	94
16) 1,3-Butadiene	3.38	39	1697	0.044	ppbv #	1
17) tert-Butyl alcohol	4.37	59	371	0.039	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	12257	0.245	ppbv #	69
20) Methylene Chloride	4.43	84	5358	0.114	ppbv #	64
29) Chloroform	5.86	83	3856110	19.664	ppbv	100
35) Carbon Tetrachloride	7.15	117	1024101	5.208	ppbv	98
36) Benzene	7.02	78	20988	0.102	ppbv	94
38) Trichloroethene	7.98	130	4141	0.054	ppbv	90
39) 1,2-Dichloropropane	7.31	63	682785	8.160	ppbv #	25
80) Naphthalene,2-methyl-	25.41	142	46	0.741	ppbv #	16

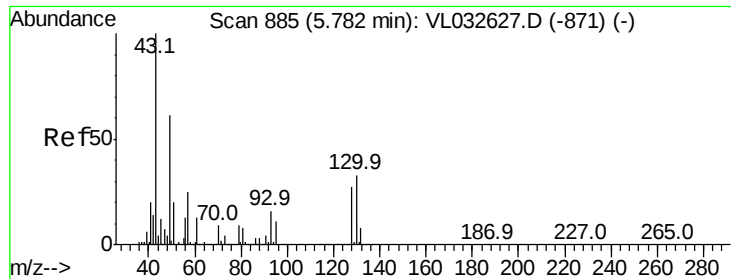
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

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ClientSampleId :

SS04-MIVIDL2

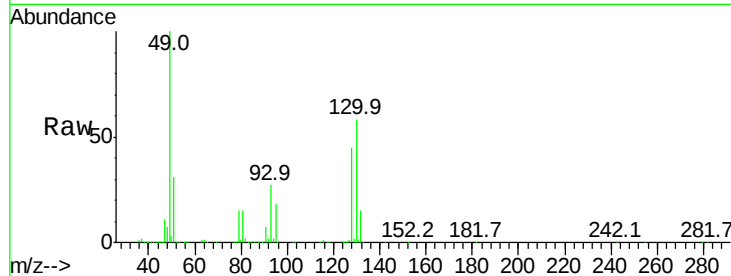
Tgt Ion: 49 Resp: 1179675

Ion Ratio Lower Upper

49 100

128 44.5 22.3 66.8

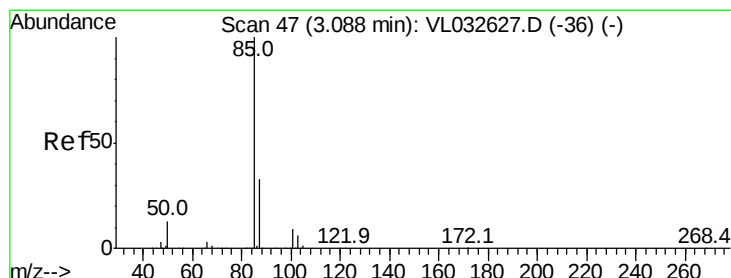
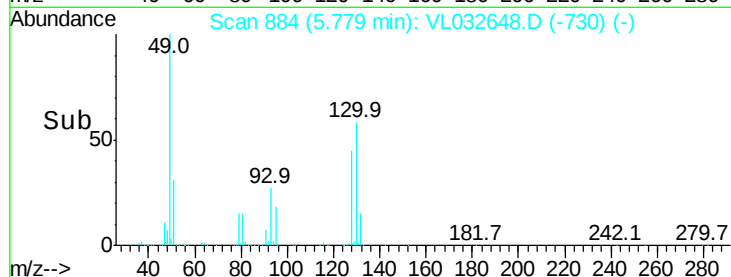
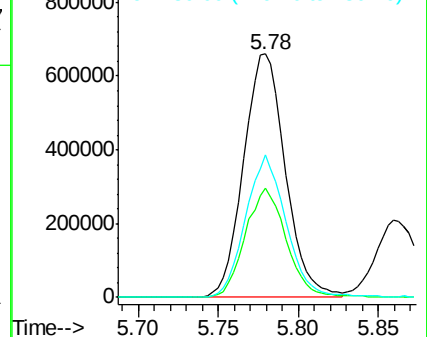
130 56.8 28.4 85.3



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: Below Cal

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032648.D

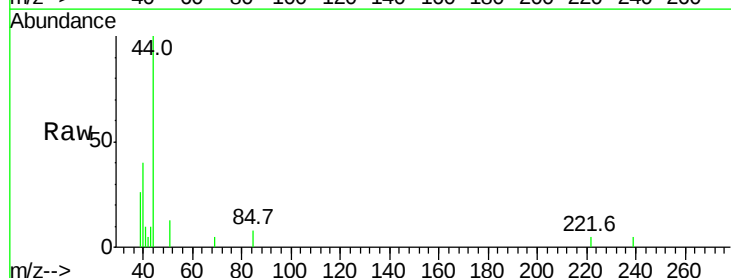
Acq: 17 Oct 2018 19:32

Tgt Ion: 85 Resp: 94

Ion Ratio Lower Upper

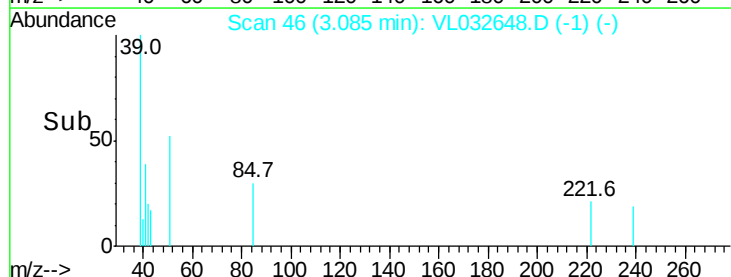
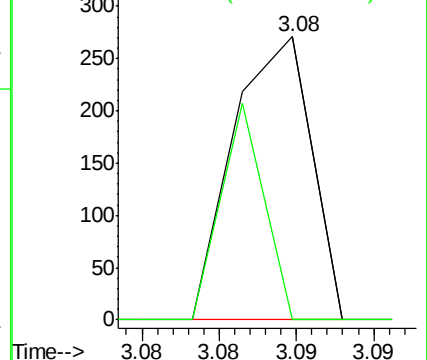
85 100

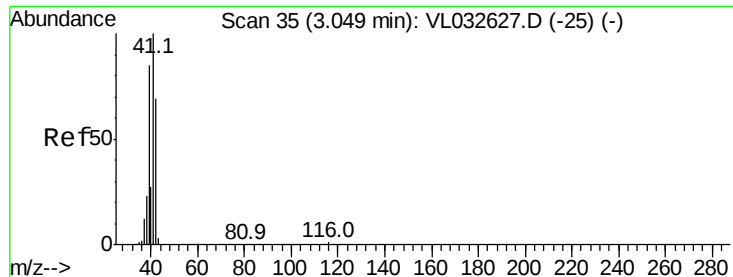
87 0.0 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.251 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.00 min

Lab File: VL032648.D

Acq: 17 Oct 2018 19:32

Instrument :

MSVOA_L

ClientSampleId :

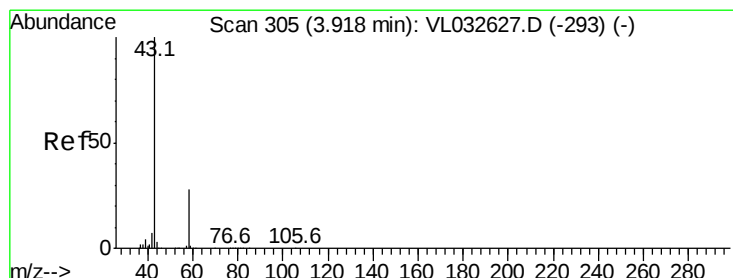
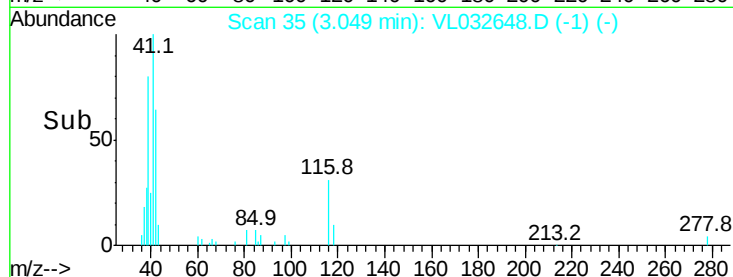
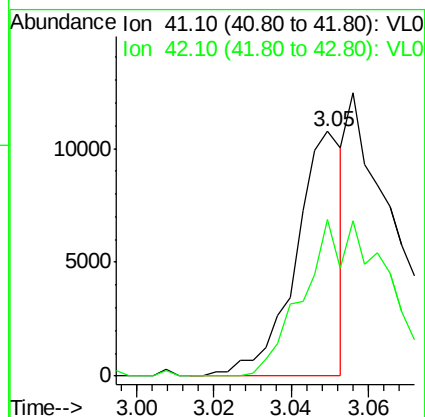
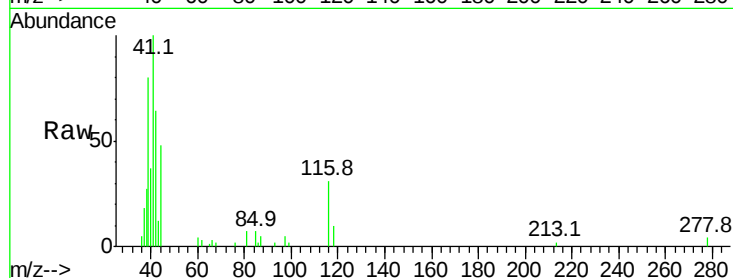
SS04-MIVIDL2

Tgt Ion: 41 Resp: 9097

Ion Ratio Lower Upper

41 100

42 116.8 55.4 83.0#



#15

Acetone

Concen: 0.608 ppbv

RT: 3.94 min Scan# 313

Delta R.T. 0.03 min

Lab File: VL032648.D

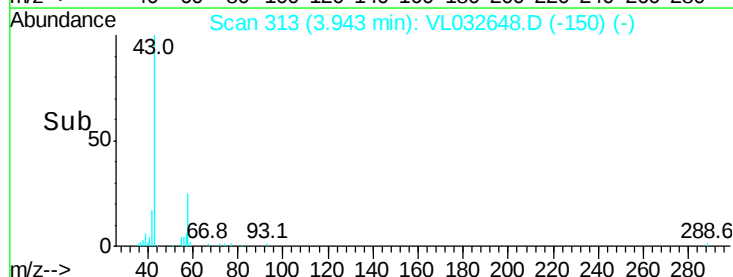
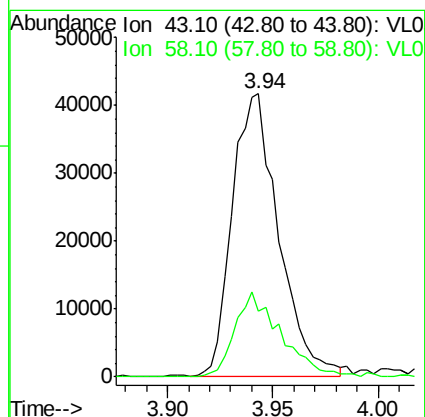
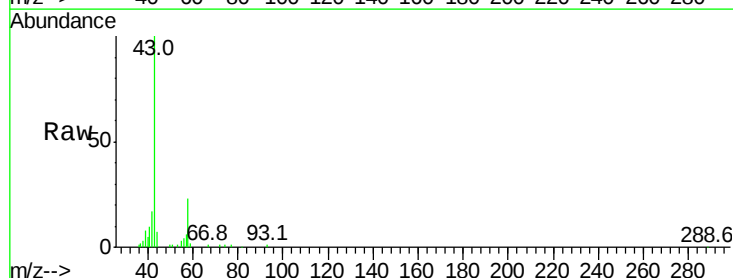
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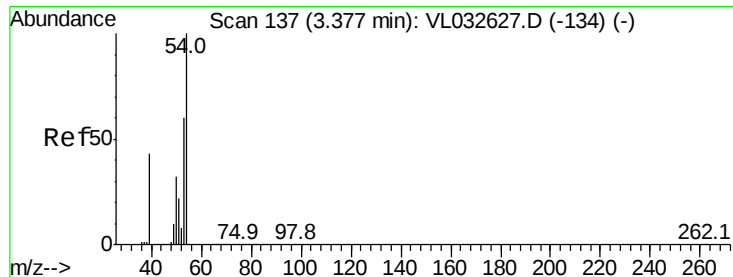
Tgt Ion: 43 Resp: 63800

Ion Ratio Lower Upper

43 100

58 30.5 22.1 33.1

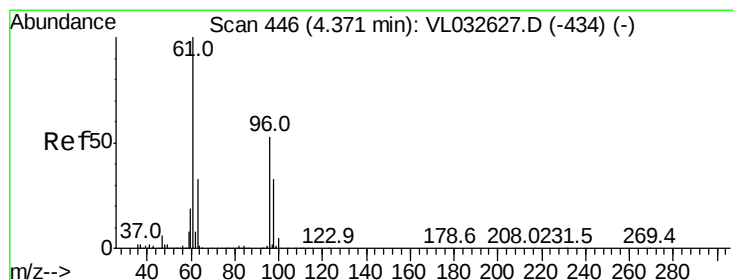
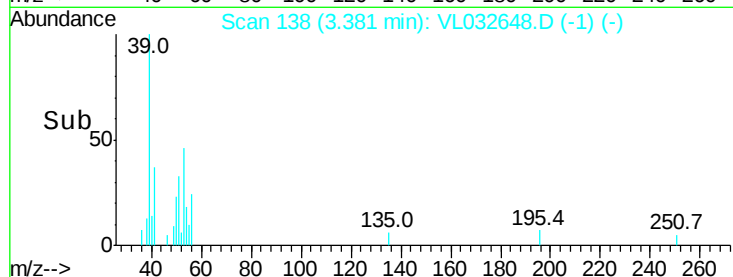
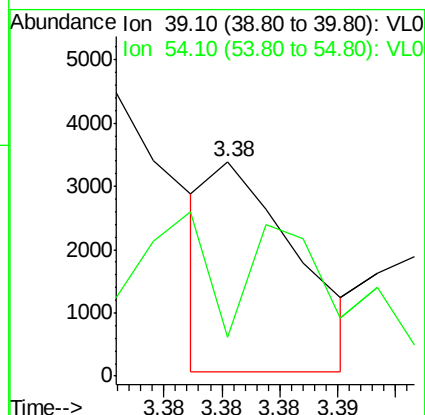
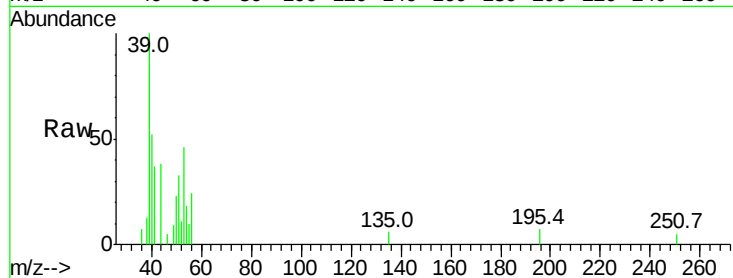




#16
 1,3-Butadiene
 Concen: 0.044 ppbv
 RT: 3.38 min Scan# 138
 Delta R.T. 0.00 min
 Lab File: VL032648.D
 Acq: 17 Oct 2018 19:32

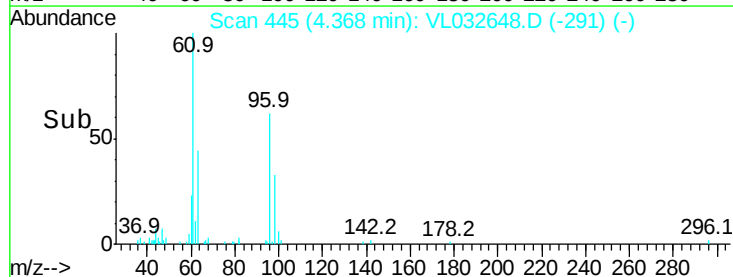
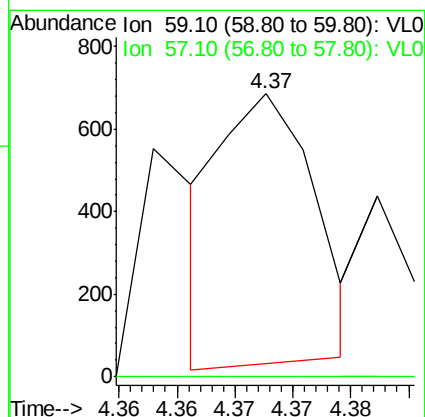
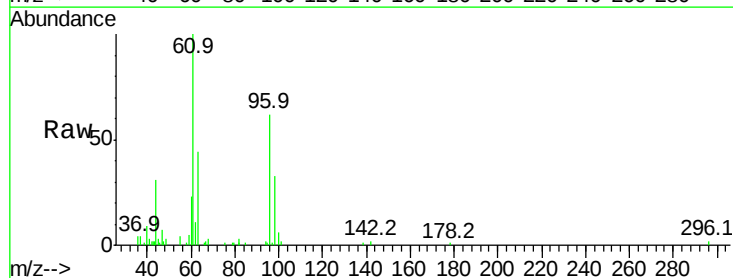
Instrument :
 MSVOA_L
 ClientSampleId :
 SS04-MIVIDL2

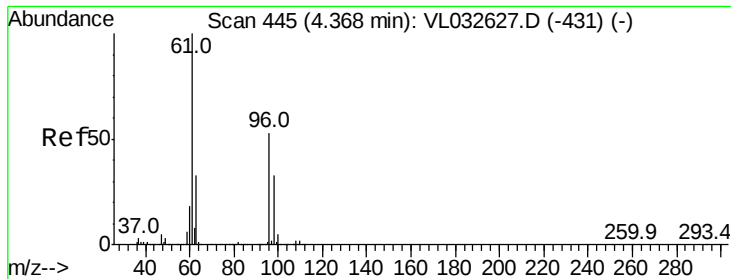
Tgt Ion: 39 Resp: 1697
 Ion Ratio Lower Upper
 39 100
 54 243.2 90.4 135.6#



#17
 tert-Butyl alcohol
 Concen: 0.039 ppbv
 RT: 4.37 min Scan# 445
 Delta R.T. -0.00 min
 Lab File: VL032648.D
 Acq: 17 Oct 2018 19:32

Tgt Ion: 59 Resp: 371
 Ion Ratio Lower Upper
 59 100
 57 0.0 0.0 0.0

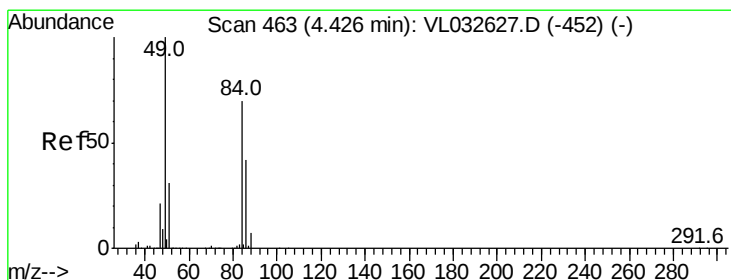
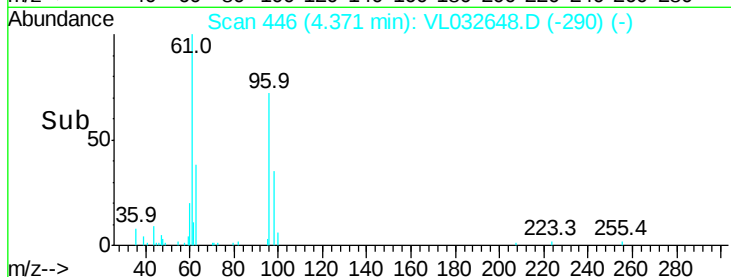
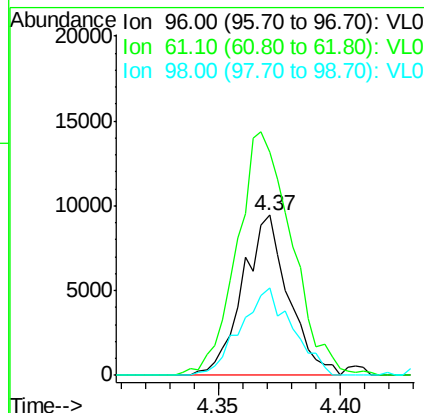
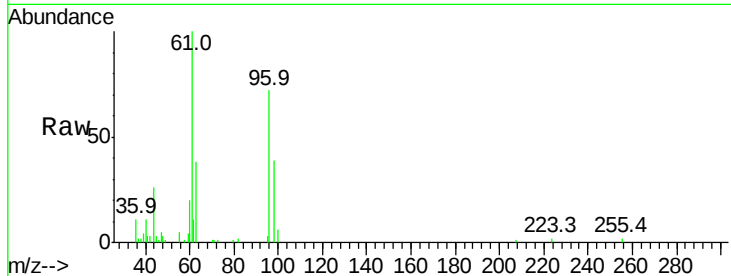




#18
 1,1-Dichloroethene
 Concen: 0.245 ppbv
 RT: 4.37 min Scan# 446
 Delta R.T. 0.00 min
 Lab File: VL032648.D
 Acq: 17 Oct 2018 19:32

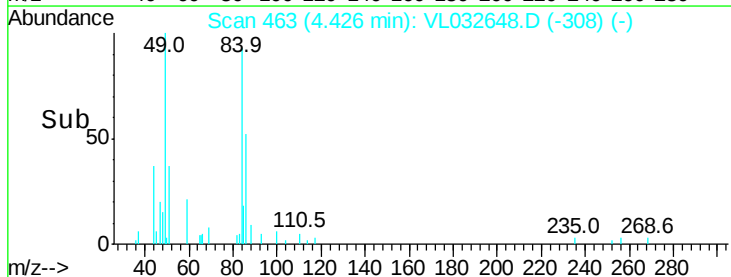
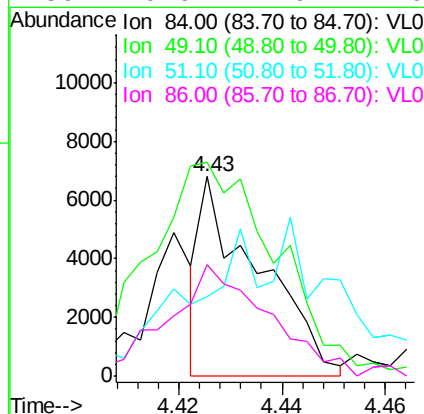
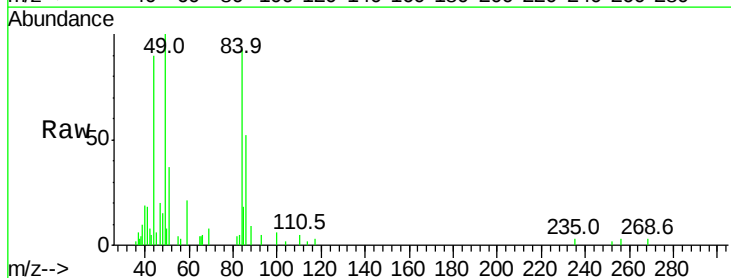
Instrument :
 MSVOA_L
 ClientSampleId :
 SS04-MIVIDL2

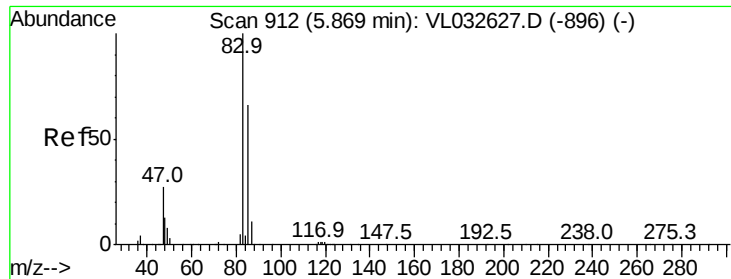
Tgt Ion: 96 Resp: 12257
 Ion Ratio Lower Upper
 96 100
 61 134.3 151.6 227.4#
 98 54.6 50.6 75.8



#20
 Methylene Chloride
 Concen: 0.114 ppbv
 RT: 4.43 min Scan# 463
 Delta R.T. -0.00 min
 Lab File: VL032648.D
 Acq: 17 Oct 2018 19:32

Tgt Ion: 84 Resp: 5358
 Ion Ratio Lower Upper
 84 100
 49 96.6 113.5 170.3#
 51 4.2 34.8 52.2#
 86 49.6 47.9 71.9





#29

Chloroform

Concen: 19.664 ppbv

RT: 5.86 min Scan# 910

Delta R.T. -0.01 min

Lab File: VL032648.D

Acq: 17 Oct 2018 19:32

Instrument :

MSVOA_L

ClientSampleId :

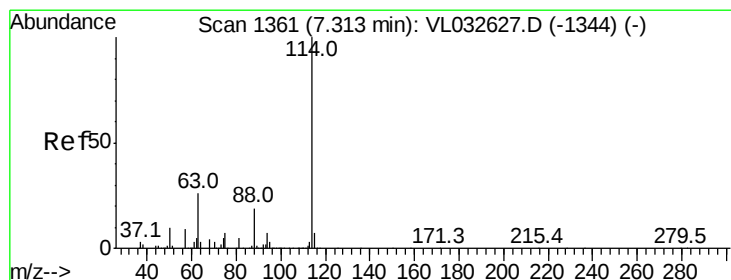
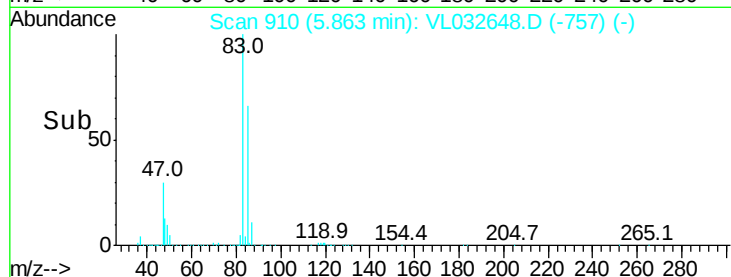
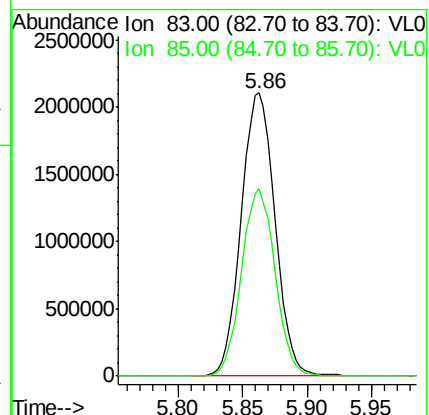
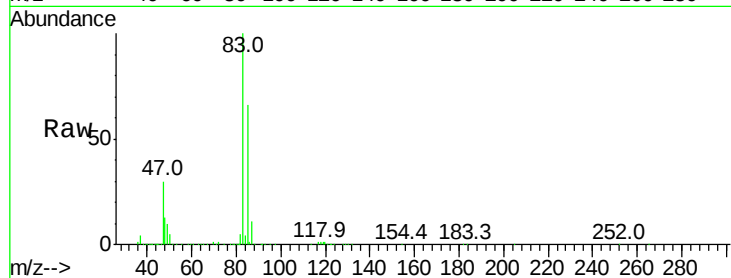
SS04-MIVIDL2

Tgt Ion: 83 Resp: 3856110

Ion Ratio Lower Upper

83 100

85 66.2 53.0 79.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.31 min Scan# 1360

Delta R.T. -0.00 min

Lab File: VL032648.D

Acq: 17 Oct 2018 19:32

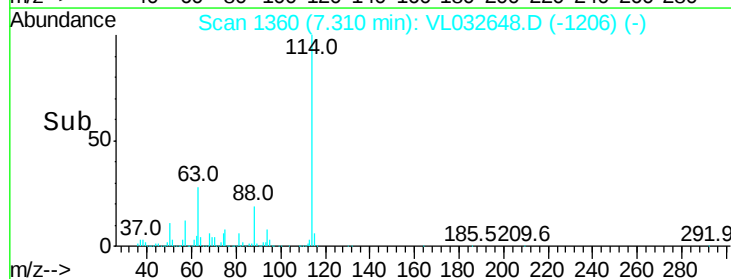
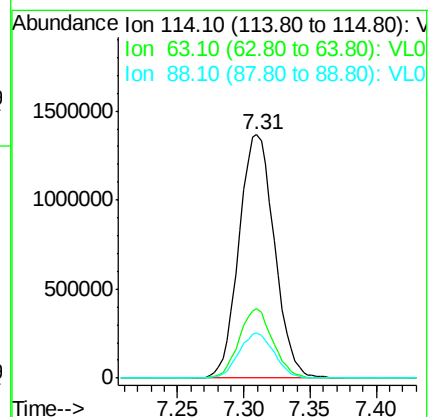
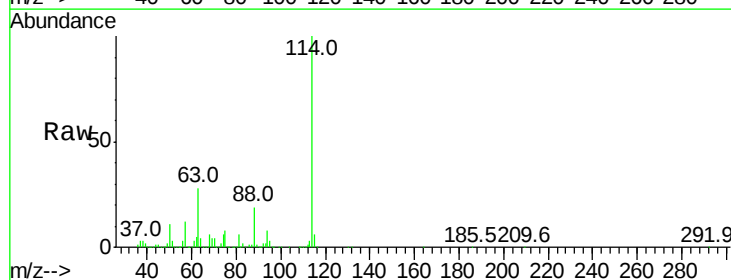
Tgt Ion: 114 Resp: 2537469

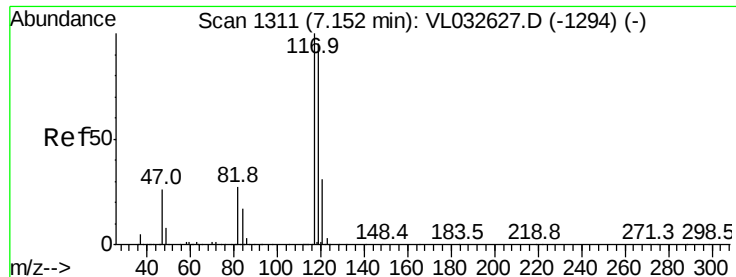
Ion Ratio Lower Upper

114 100

63 27.2 21.7 32.5

88 18.4 14.9 22.3





#35

Carbon Tetrachloride

Concen: 5.208 ppbv

RT: 7.15 min Scan# 1311

Delta R.T. -0.00 min

Lab File: VL032648.D

Acq: 17 Oct 2018 19:32

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL2

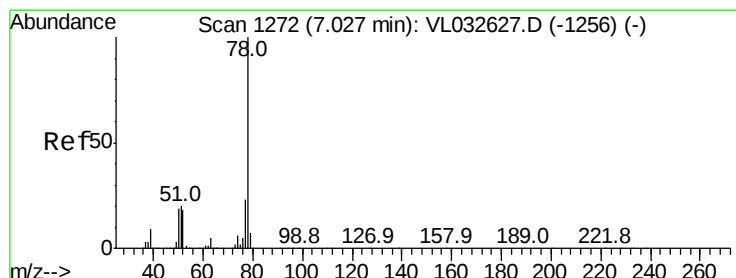
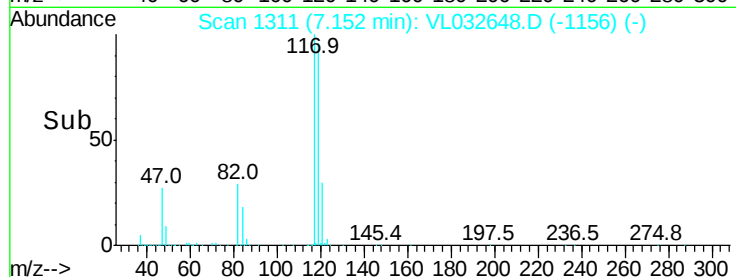
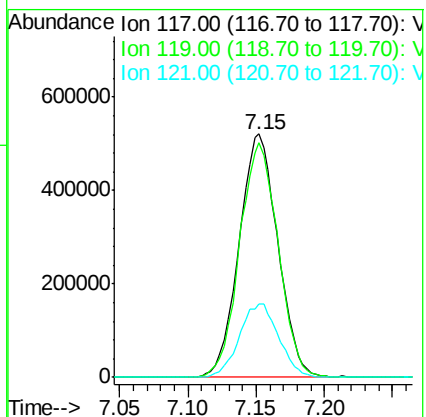
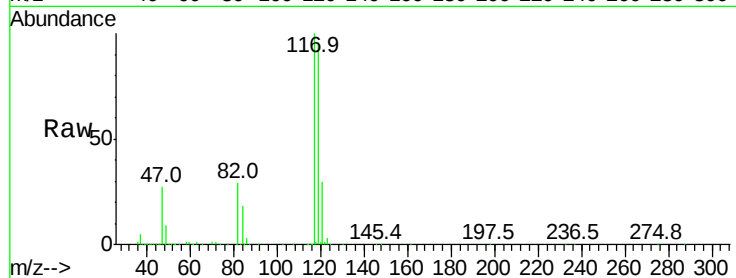
Tgt Ion:117 Resp: 1024101

Ion Ratio Lower Upper

117 100

119 96.3 75.7 113.5

121 30.0 24.7 37.1



#36

Benzene

Concen: 0.102 ppbv

RT: 7.02 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VL032648.D

Acq: 17 Oct 2018 19:32

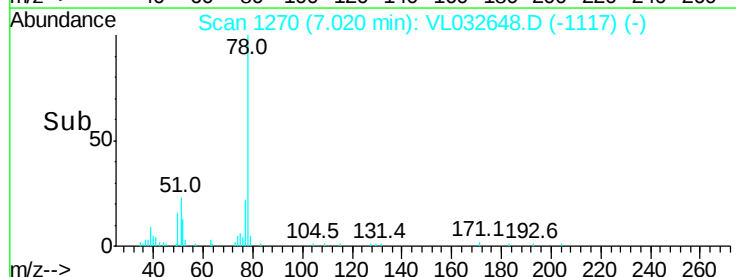
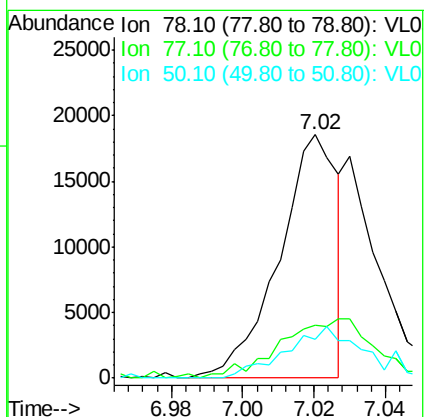
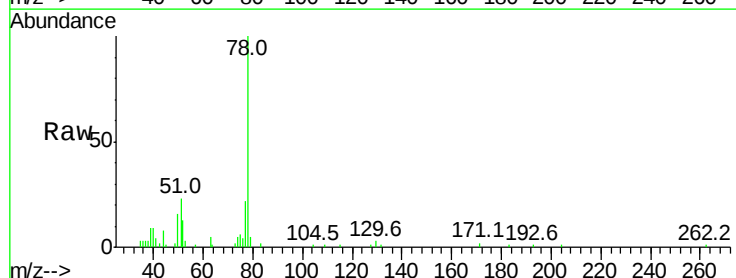
Tgt Ion: 78 Resp: 20988

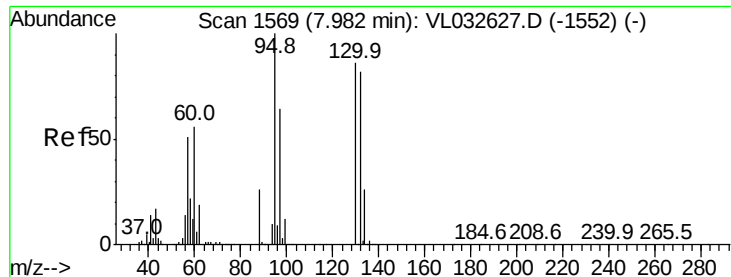
Ion Ratio Lower Upper

78 100

77 19.8 18.1 27.1

50 15.7 15.1 22.7





#38

Trichloroethene

Concen: 0.054 ppbv

RT: 7.98 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VL032648.D

Acq: 17 Oct 2018 19:32

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL2

Tgt Ion:130 Resp: 4141

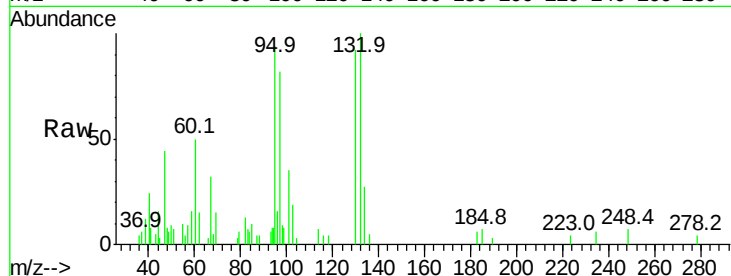
Ion Ratio Lower Upper

130 100

95 102.5 93.4 140.0

132 97.7 76.5 114.7

97 87.3 60.2 90.2

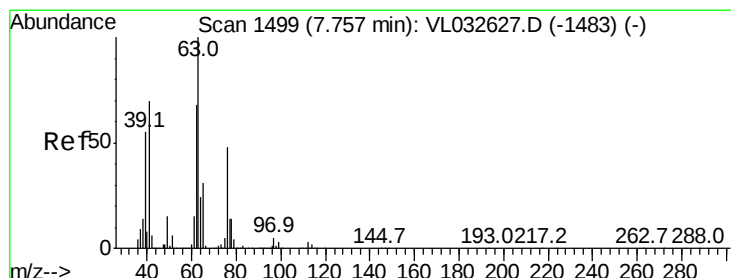
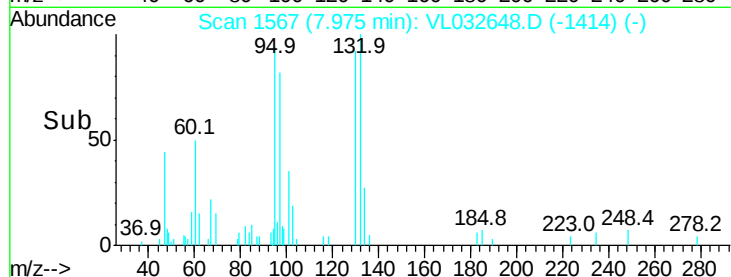
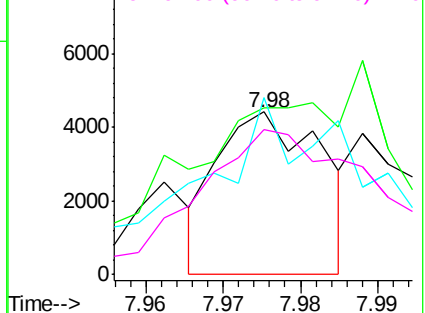


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.160 ppbv

RT: 7.31 min Scan# 1360

Delta R.T. -0.45 min

Lab File: VL032648.D

Acq: 17 Oct 2018 19:32

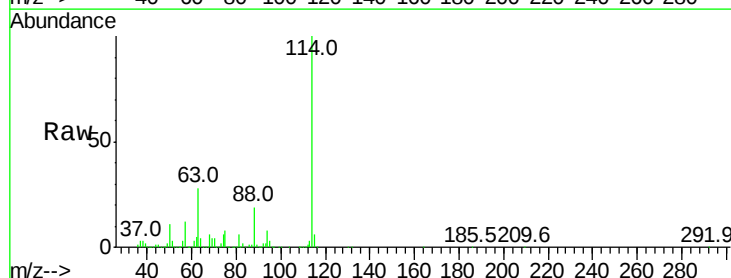
Tgt Ion: 63 Resp: 682785

Ion Ratio Lower Upper

63 100

41 0.2 56.2 84.4#

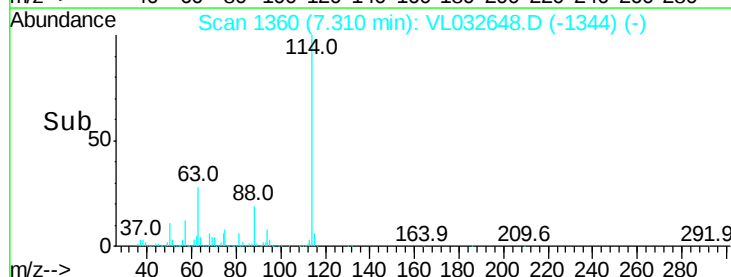
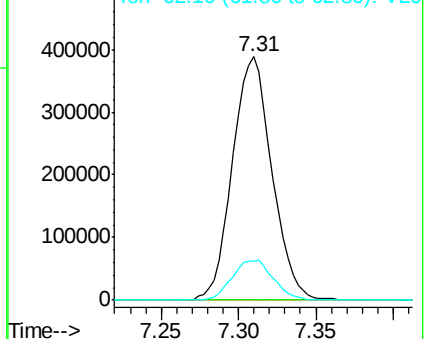
62 16.0 54.4 81.6#

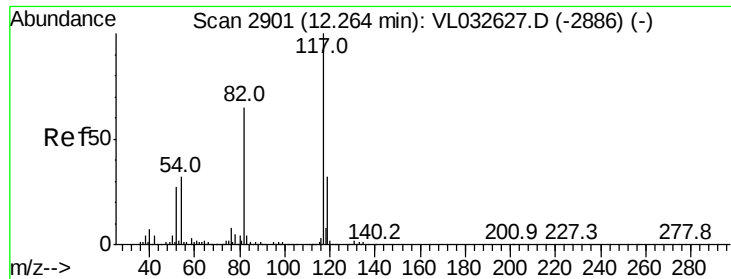


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

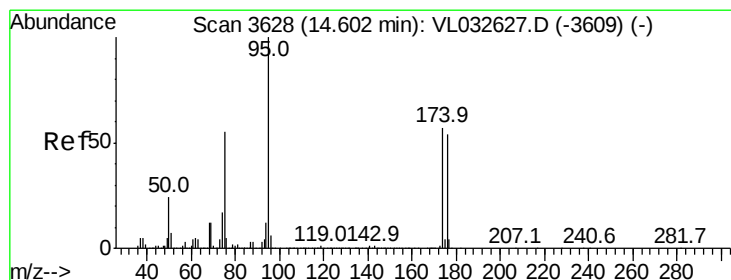
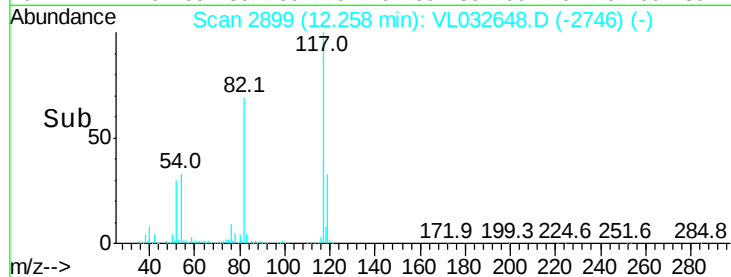
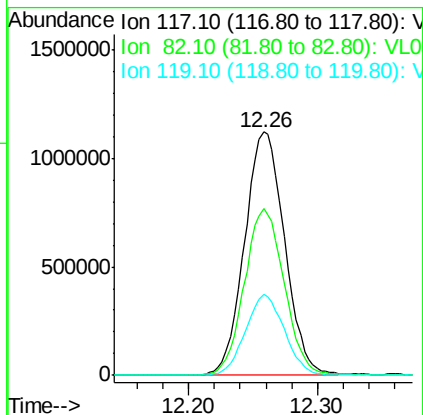
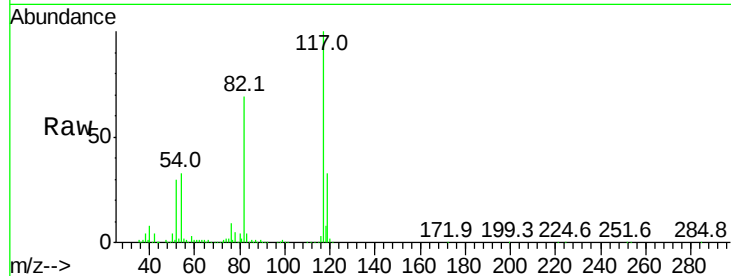




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.26 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL032648.D
Acq: 17 Oct 2018 19:32

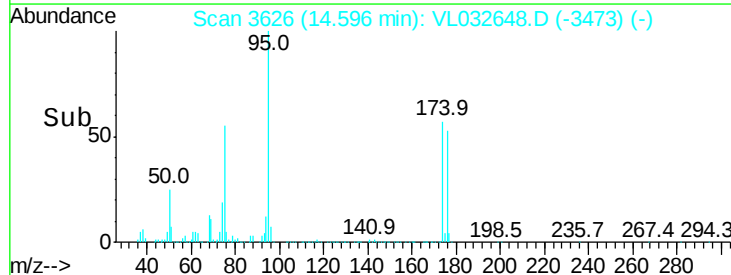
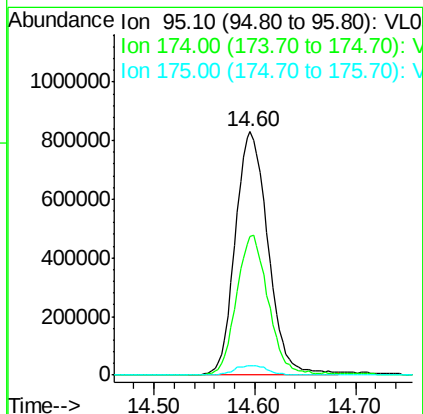
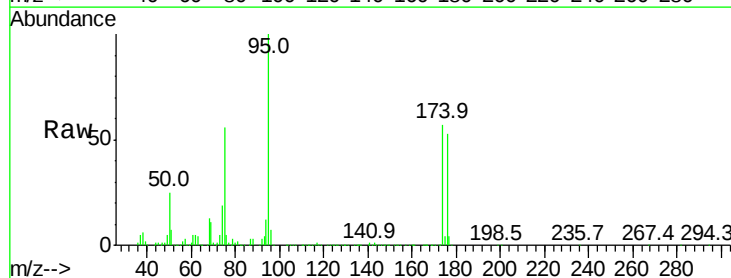
Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL2

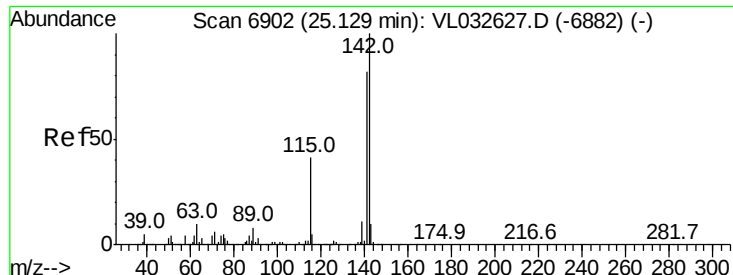
Tgt Ion: 117 Resp: 2426287
Ion Ratio Lower Upper
117 100
82 68.5 52.7 79.1
119 32.5 26.7 40.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.264 ppbv
RT: 14.60 min Scan# 3626
Delta R.T. -0.01 min
Lab File: VL032648.D
Acq: 17 Oct 2018 19:32

Tgt Ion: 95 Resp: 1875137
Ion Ratio Lower Upper
95 100
174 57.0 46.0 69.0
175 4.0 3.4 5.0





#80

Naphthalene, 2-methyl-

Concen: 0.741 ppbv

RT: 25.41 min Scan# 6988

Delta R.T. 0.28 min

Lab File: VL032648.D

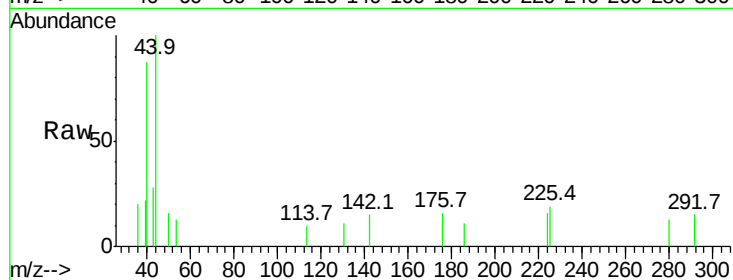
Acq: 17 Oct 2018 19:32

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL2



Tgt Ion:	142	Resp:	46
Ion	Ratio	Lower	Upper
142	100		
141	0.0	67.5	101.3#
115	0.0	33.5	50.3#

