

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070218\
 Data File : VL032200.D
 Acq On : 3 Jul 2018 3:04
 Operator : SY/AP
 Sample : J3735-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

Quant Time: Jul 03 05:07:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1438362	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3593208	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3246994	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2436818	9.82	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

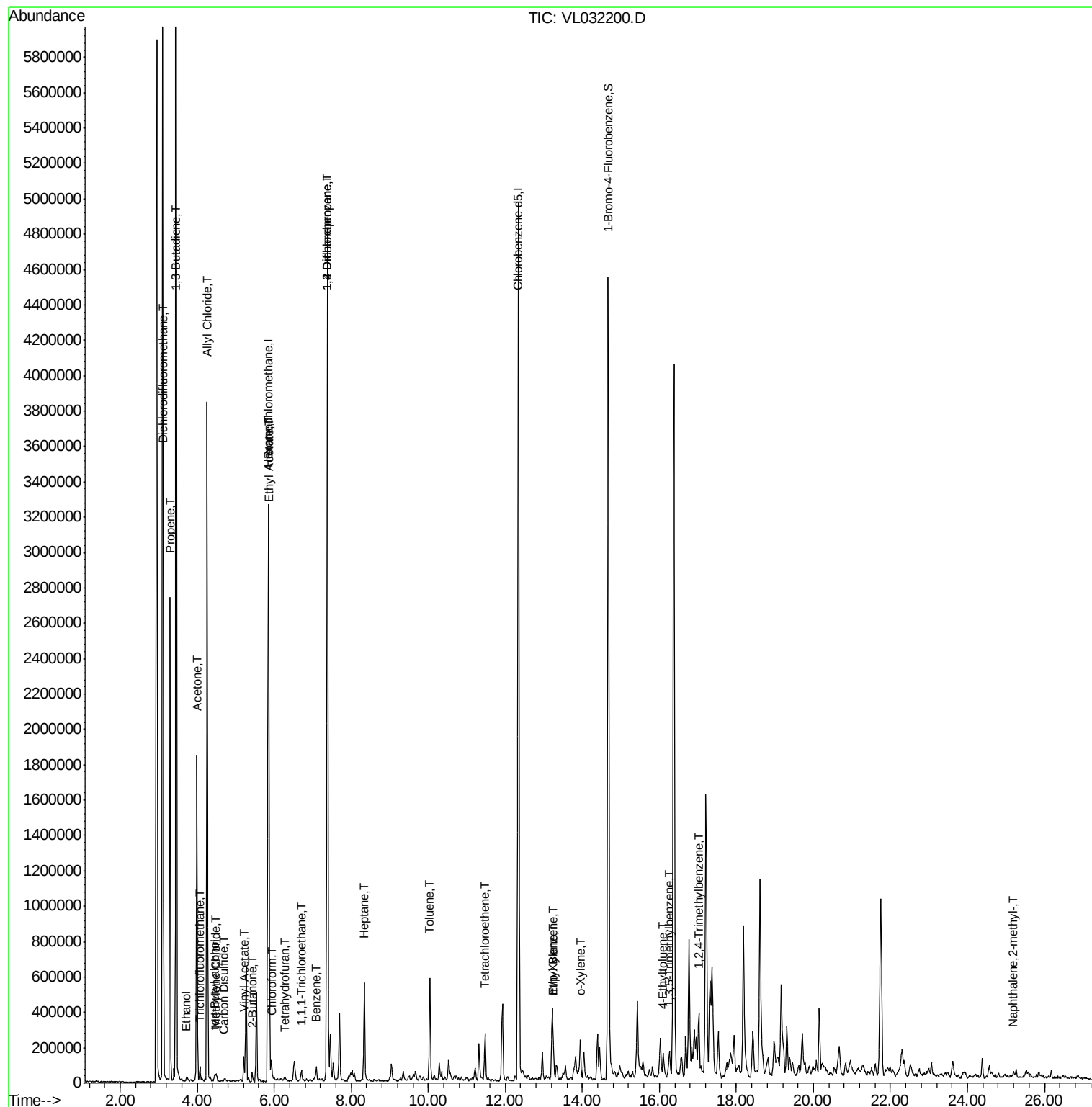
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.13	85	11134	0.059	ppbv #	82
9) Propene	3.30	41	798515	9.749	ppbv	93
10) Heptane	8.34	43	251078	1.051	ppbv	99
11) Trichlorofluoromethane	4.07	101	51052	0.249	ppbv	98
13) Ethanol	3.72	45	12115	0.488	ppbv #	11
15) Acetone	3.99	43	799993	4.757	ppbv #	67
16) 1,3-Butadiene	3.45	39	1161305	14.470	ppbv #	4
17) tert-Butyl alcohol	4.45	59	28338	0.265	ppbv #	73
20) Methylene Chloride	4.48	84	9076	0.148	ppbv #	81
21) Allyl Chloride	4.26	41	1145344	9.973	ppbv #	50
23) Vinyl Acetate	5.22	43	63962	0.210	ppbv #	1
25) Ethyl Acetate	5.86	43	485052	1.394	ppbv #	77
26) Hexane	5.86	57	702745	4.386	ppbv #	45
27) Carbon Disulfide	4.70	76	11232	0.071	ppbv #	54
29) Chloroform	5.93	83	58359	0.250	ppbv	98
32) 1,1,1-Trichloroethane	6.70	97	28656	0.117	ppbv	96
34) 2-Butanone	5.42	43	57149	0.251	ppbv	99
36) Benzene	7.09	78	55712	0.160	ppbv	97
39) 1,2-Dichloropropane	7.38	63	940847	6.859	ppbv #	27
41) Tetrahydrofuran	6.27	42	9391	0.069	ppbv #	68
52) Tetrachloroethene	11.48	164	31063	0.246	ppbv	94
53) Toluene	10.04	91	455281	1.083	ppbv	99
58) Ethyl Benzene	13.25	91	54923	0.105	ppbv	95
59) m/p-Xylene	13.25	91	54923	0.131	ppbv #	29
60) o-Xylene	13.94	91	105990	0.253	ppbv	65
72) 4-Ethyltoluene	16.10	105	57324	0.106	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.26	105	58988	0.116	ppbv #	85
74) 1,2,4-Trimethylbenzene	17.02	105	244050	0.475	ppbv #	74
80) Naphthalene,2-methyl-	25.20	142	10084	0.060	ppbv #	80

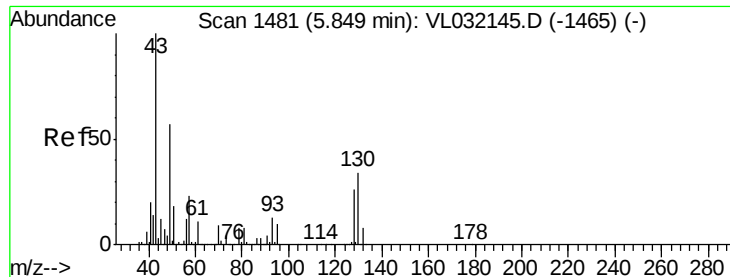
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. -0.02 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

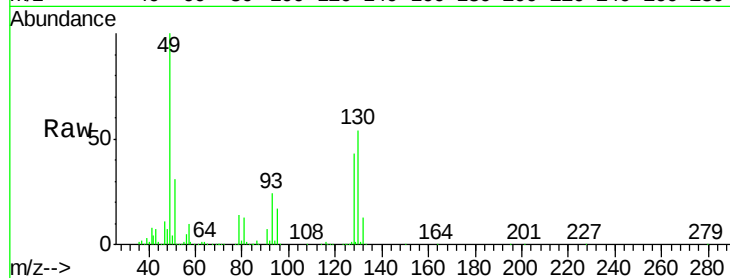
Tgt Ion: 49 Resp: 1438362

Ion Ratio Lower Upper

49 100

128 42.9 23.4 70.0

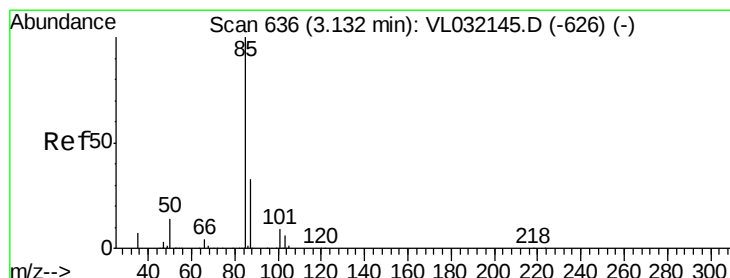
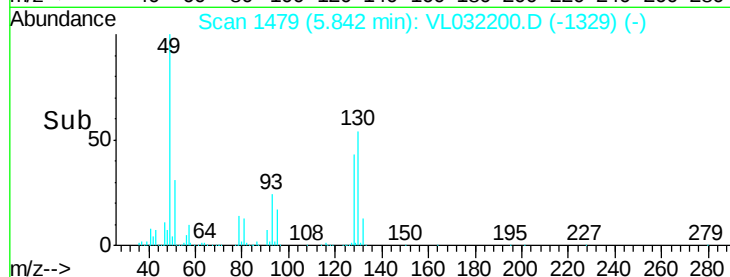
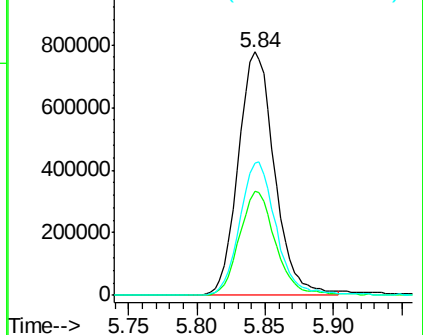
130 55.1 30.3 90.9



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: 0.059 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.01 min

Lab File: VL032200.D

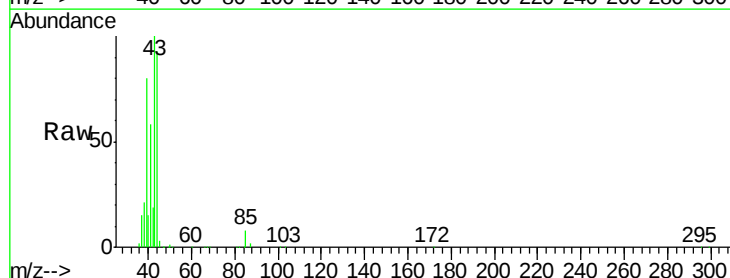
Acq: 3 Jul 2018 3:04

Tgt Ion: 85 Resp: 11134

Ion Ratio Lower Upper

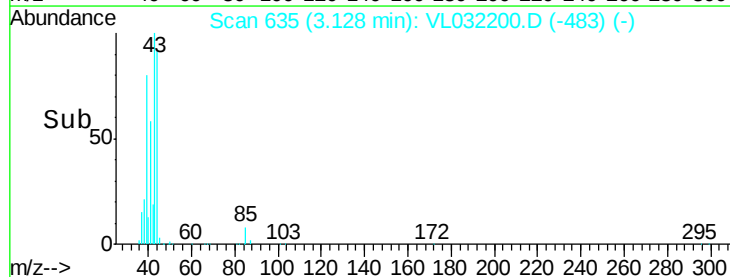
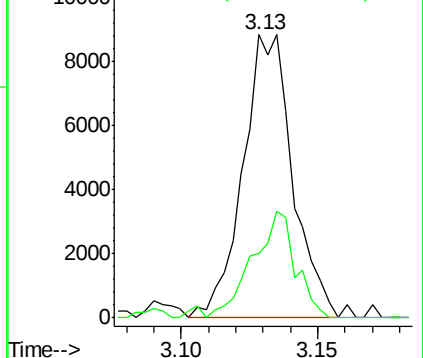
85 100

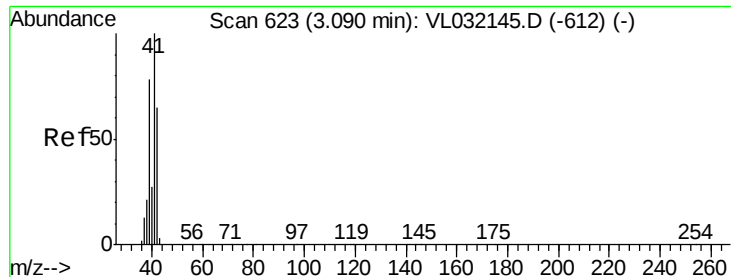
87 22.9 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 9.749 ppbv

RT: 3.30 min Scan# 687

Delta R.T. 0.20 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

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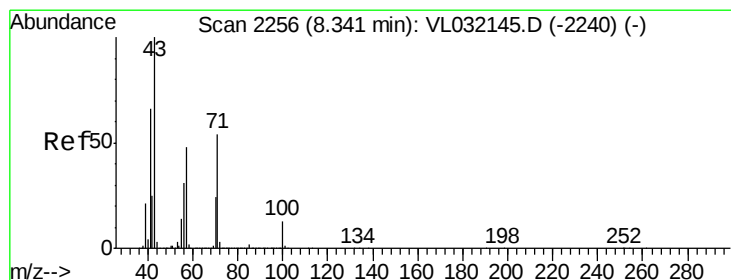
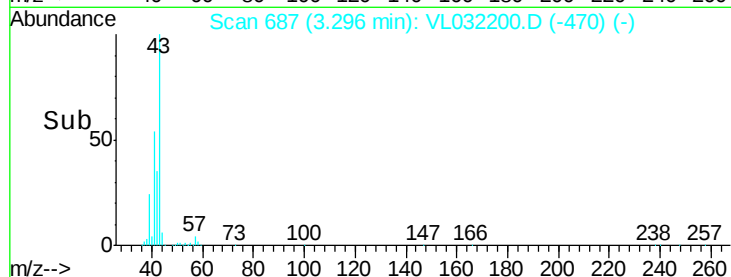
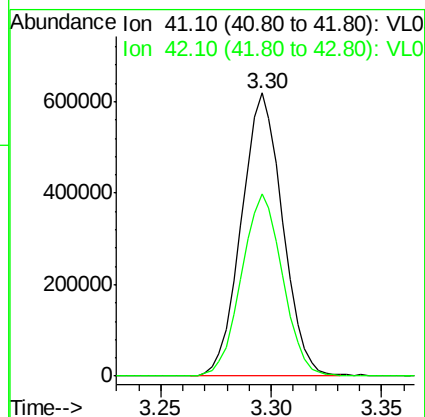
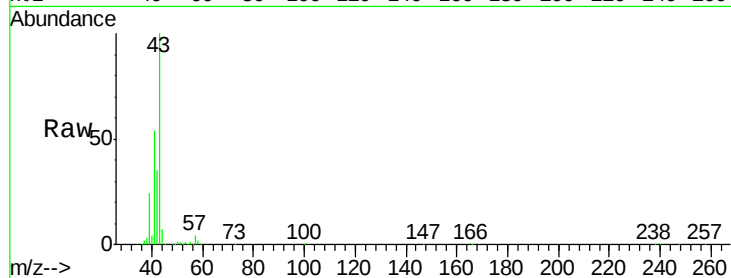
SS-2DL

Tgt Ion: 41 Resp: 798515

Ion Ratio Lower Upper

41 100

42 64.8 56.2 84.4



#10

Heptane

Concen: 1.051 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. -0.02 min

Lab File: VL032200.D

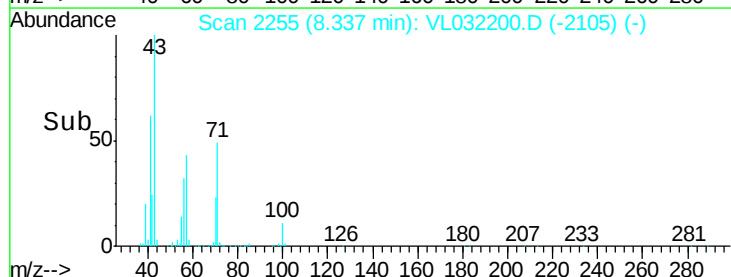
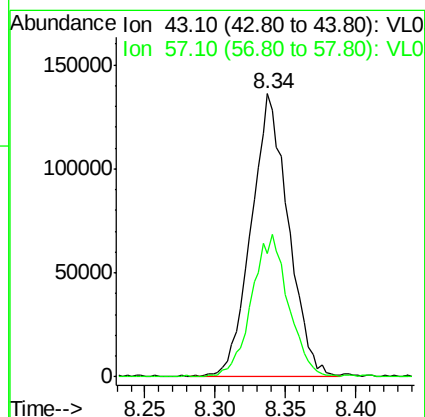
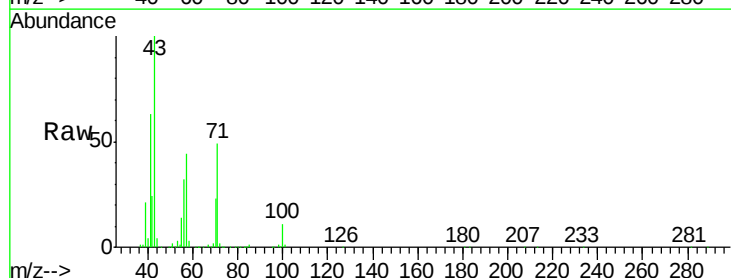
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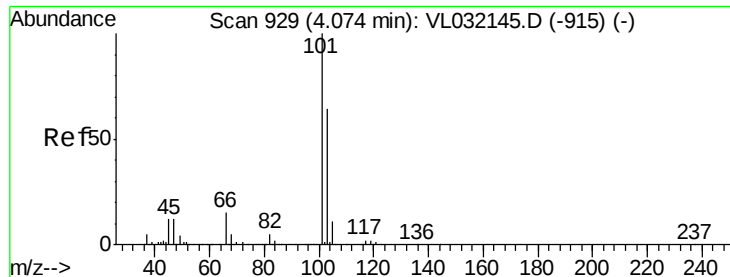
Tgt Ion: 43 Resp: 251078

Ion Ratio Lower Upper

43 100

57 50.2 39.8 59.8

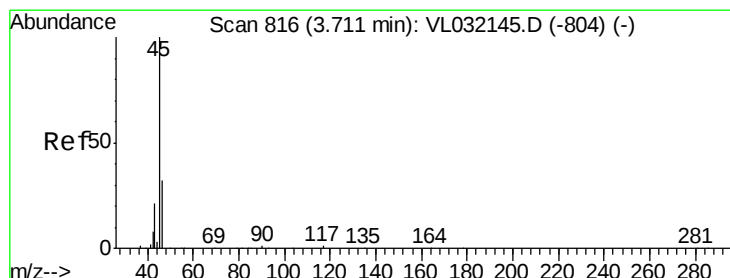
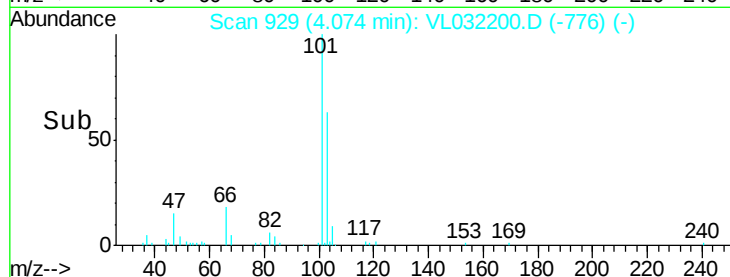
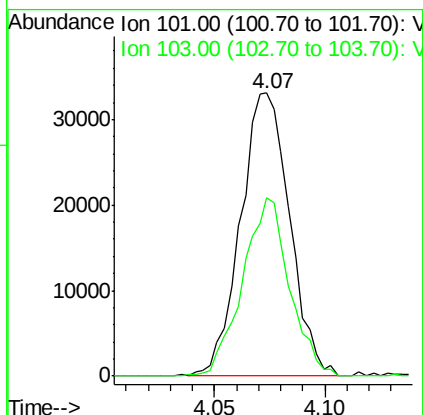
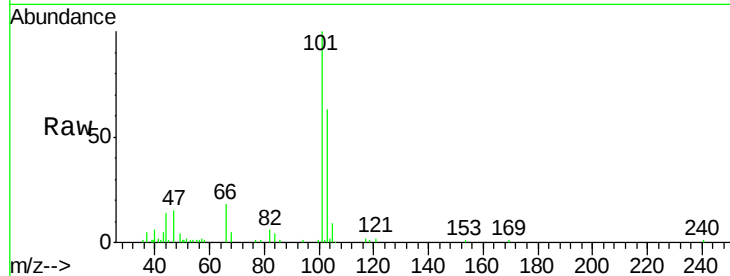




#11
 Trichlorofluoromethane
 Concen: 0.249 ppbv
 RT: 4.07 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

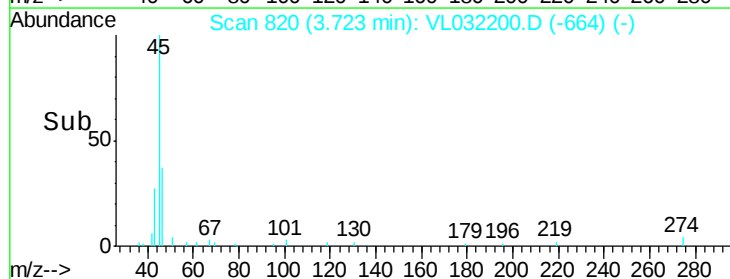
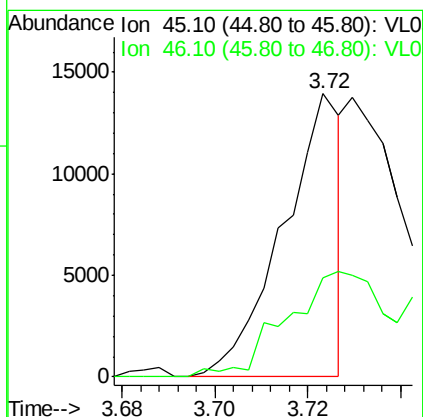
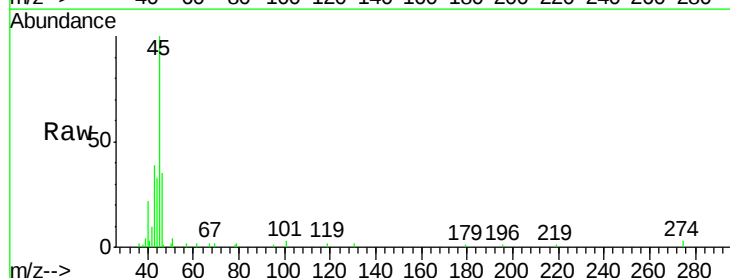
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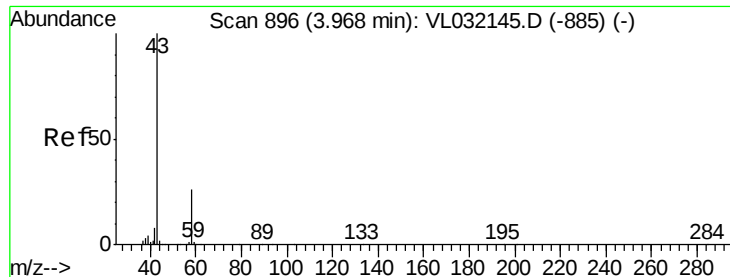
Tgt Ion: 101 Resp: 51052
 Ion Ratio Lower Upper
 101 100
 103 63.0 51.4 77.0



#13
 Ethanol
 Concen: 0.488 ppbv
 RT: 3.72 min Scan# 820
 Delta R.T. 0.00 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

Tgt Ion: 45 Resp: 12115
 Ion Ratio Lower Upper
 45 100
 46 89.0 14.6 58.4#





#15

Acetone

Concen: 4.757 ppbv

RT: 3.99 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

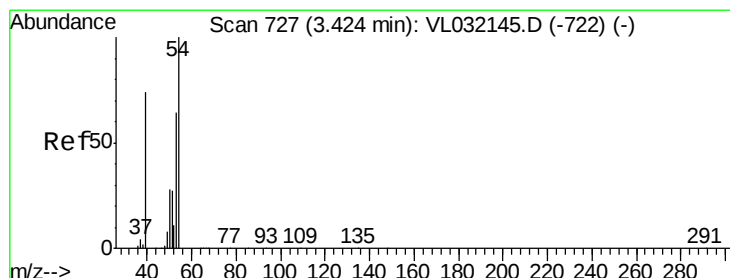
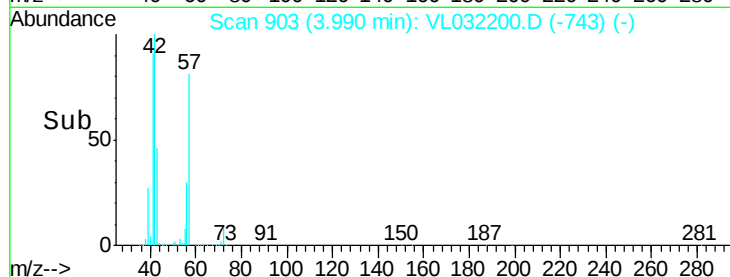
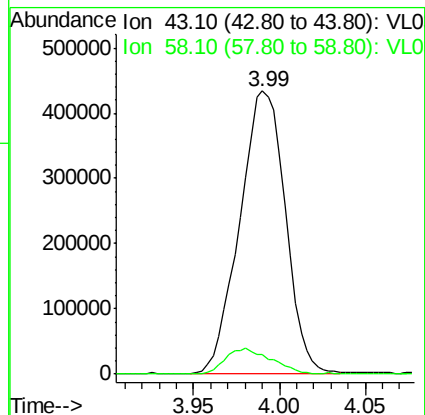
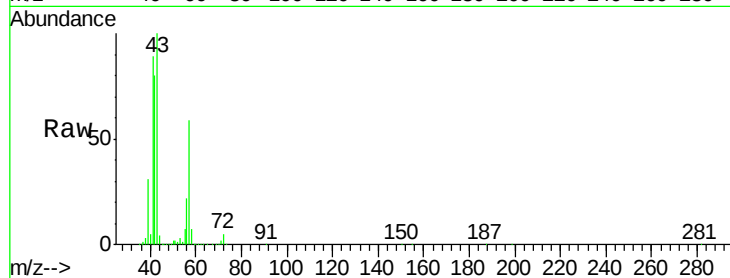
SS-2DL

Tgt Ion: 43 Resp: 799993

Ion Ratio Lower Upper

43 100

58 9.6 21.4 32.0#



#16

1,3-Butadiene

Concen: 14.470 ppbv

RT: 3.45 min Scan# 736

Delta R.T. 0.02 min

Lab File: VL032200.D

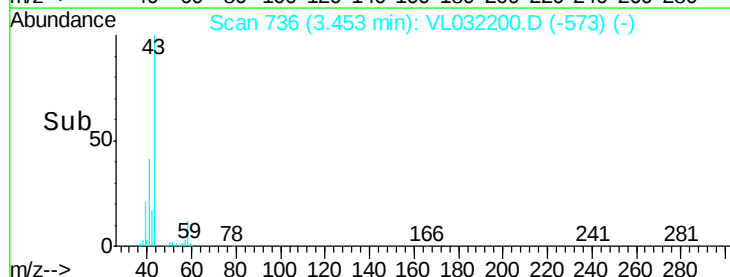
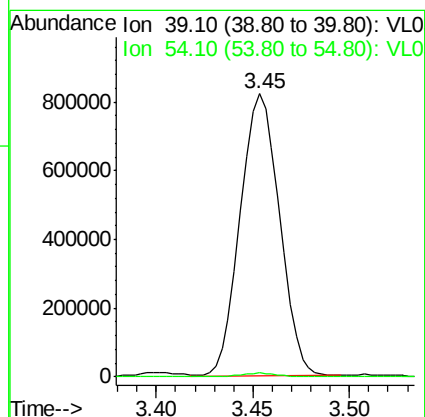
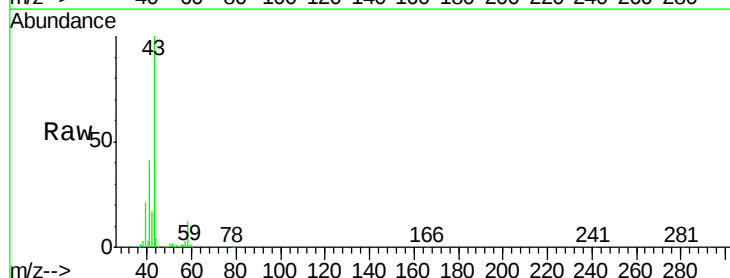
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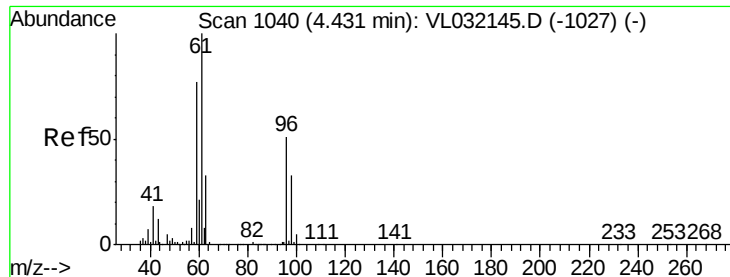
Tgt Ion: 39 Resp: 1161305

Ion Ratio Lower Upper

39 100

54 1.6 75.8 113.6#

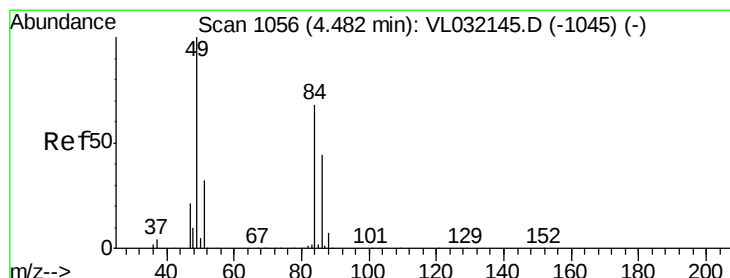
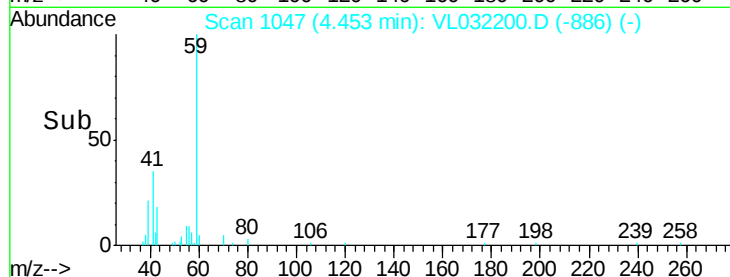
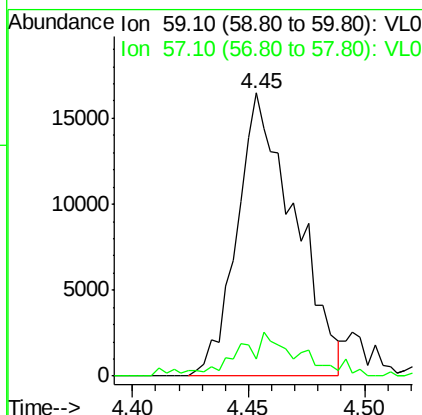
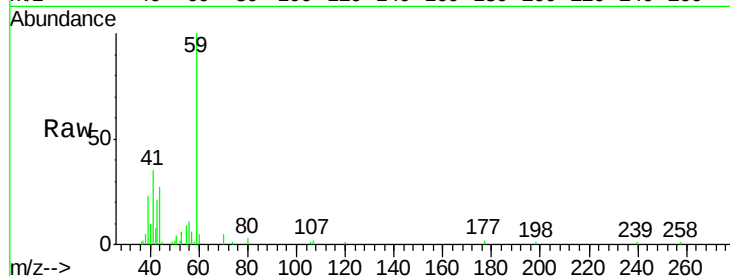




#17
 tert-Butyl alcohol
 Concen: 0.265 ppbv
 RT: 4.45 min Scan# 1047
 Delta R.T. 0.02 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

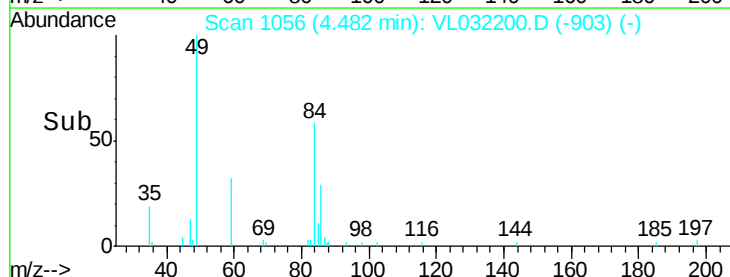
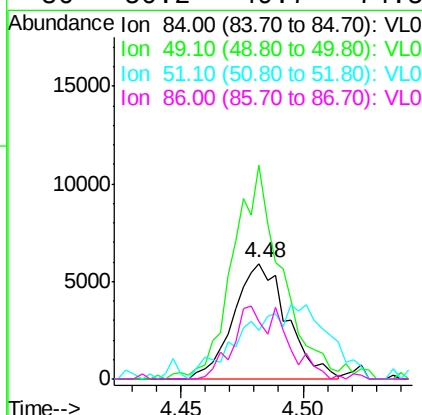
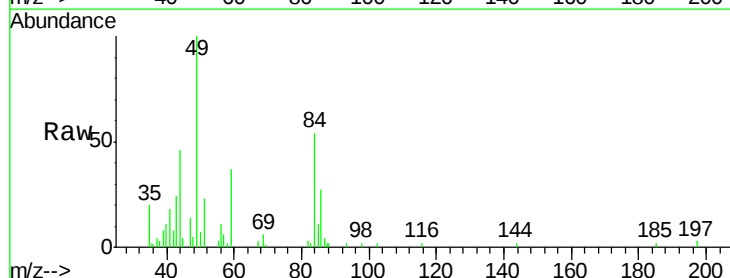
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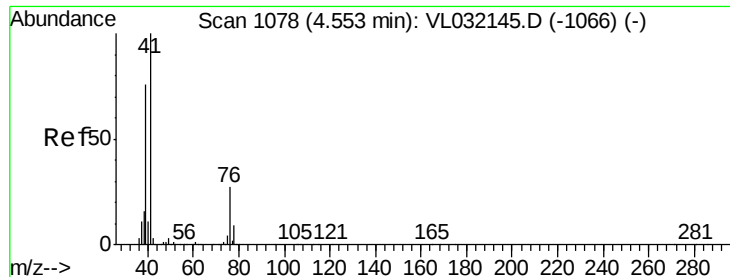
Tgt Ion: 59 Resp: 28338
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#



#20
 Methylene Chloride
 Concen: 0.148 ppbv
 RT: 4.48 min Scan# 1056
 Delta R.T. -0.01 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

Tgt Ion: 84 Resp: 9076
 Ion Ratio Lower Upper
 84 100
 49 180.7 119.6 179.4#
 51 41.8 36.3 54.5
 86 50.2 49.7 74.5

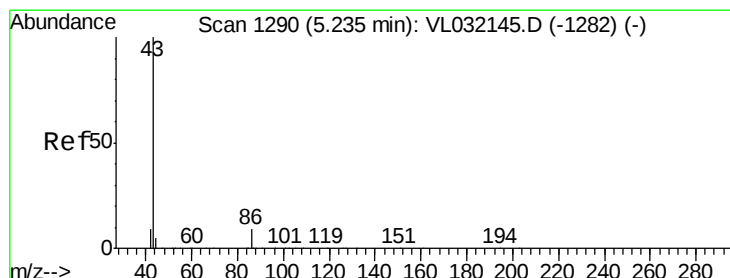
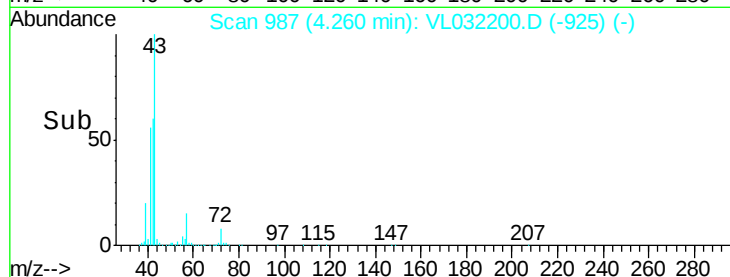
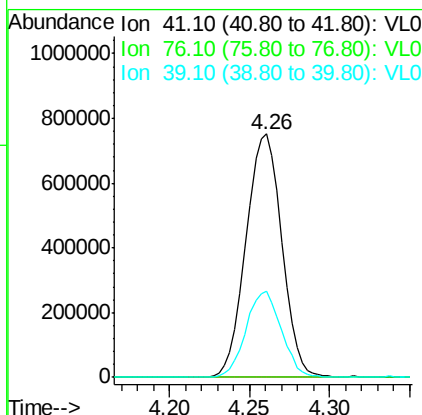
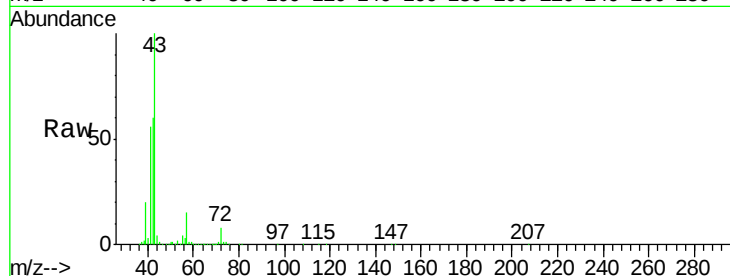




#21
 Allyl Chloride
 Concen: 9.973 ppbv
 RT: 4.26 min Scan# 987
 Delta R.T. -0.30 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

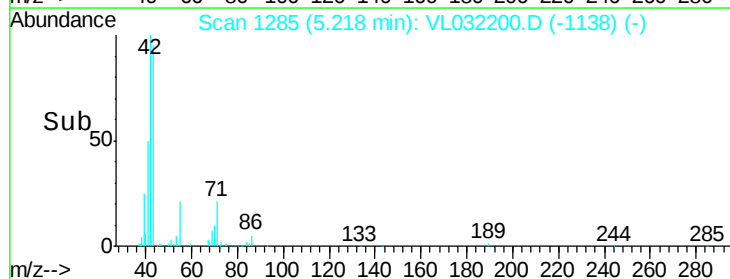
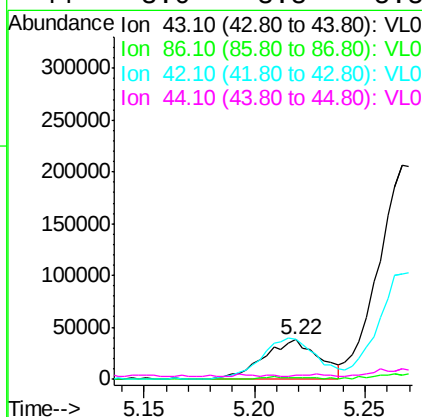
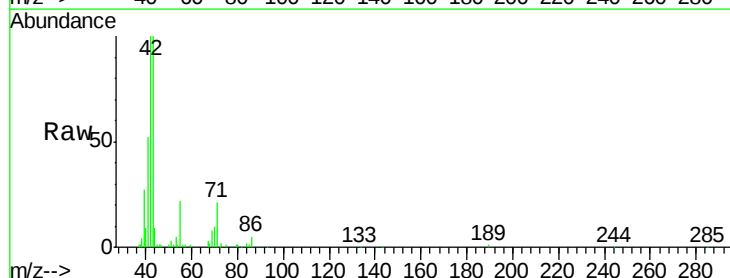
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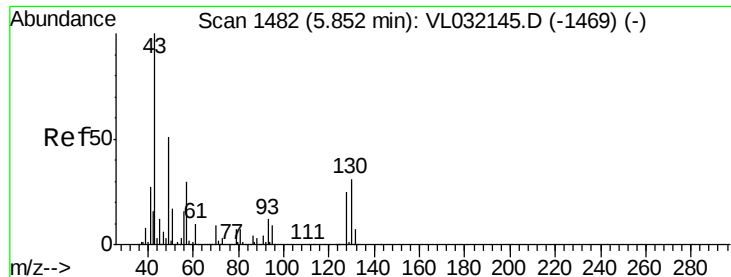
Tgt Ion: 41 Resp: 1145344
 Ion Ratio Lower Upper
 41 100
 76 0.0 22.5 33.7#
 39 34.4 60.5 90.7#



#23
 Vinyl Acetate
 Concen: 0.210 ppbv
 RT: 5.22 min Scan# 1285
 Delta R.T. -0.03 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

Tgt Ion: 43 Resp: 63962
 Ion Ratio Lower Upper
 43 100
 86 4.7 6.2 9.4#
 42 101.3 6.9 10.3#
 44 3.0 3.8 5.8#

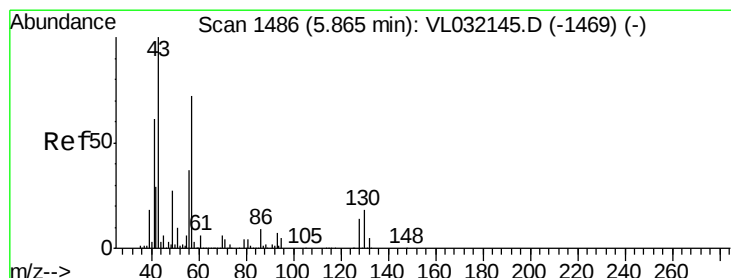
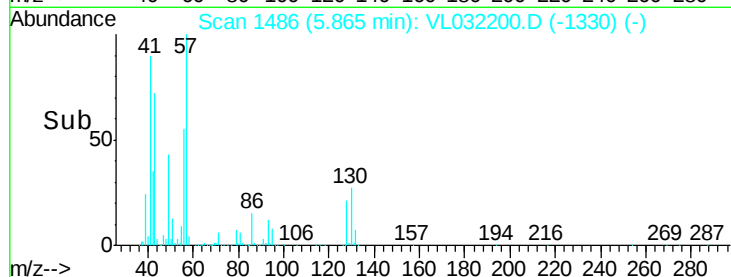
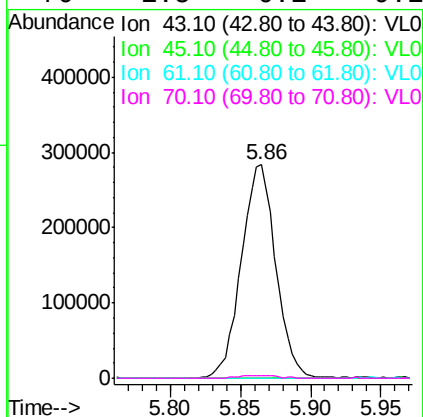
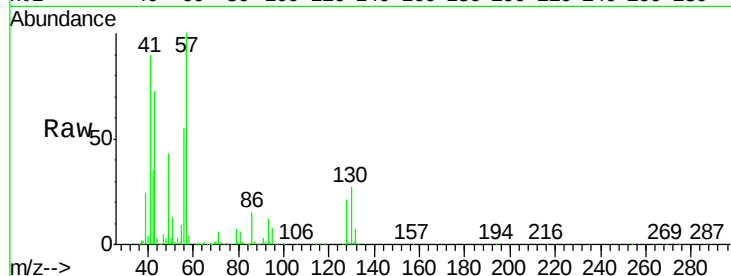




#25
Ethyl Acetate
Concen: 1.394 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

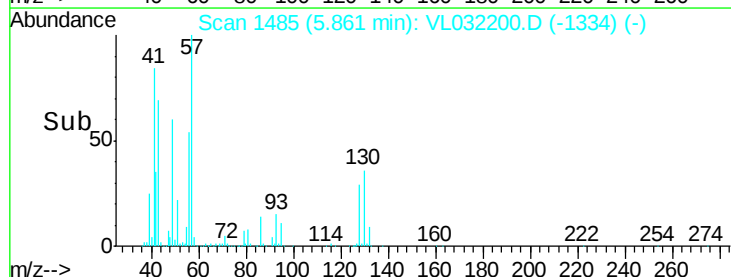
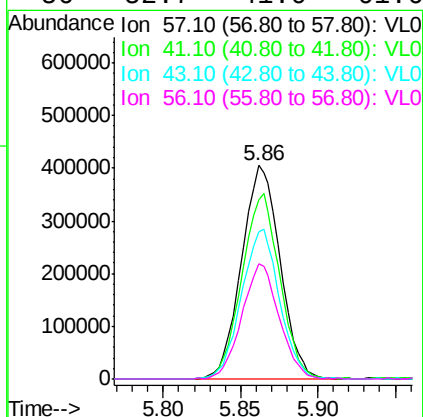
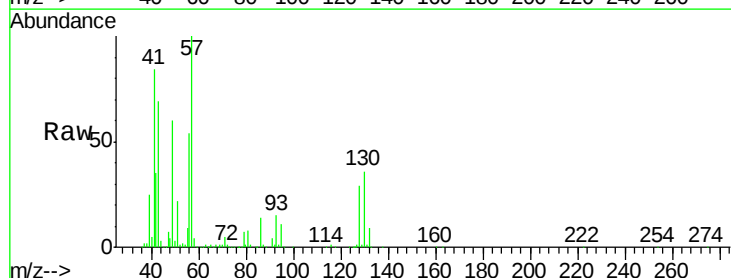
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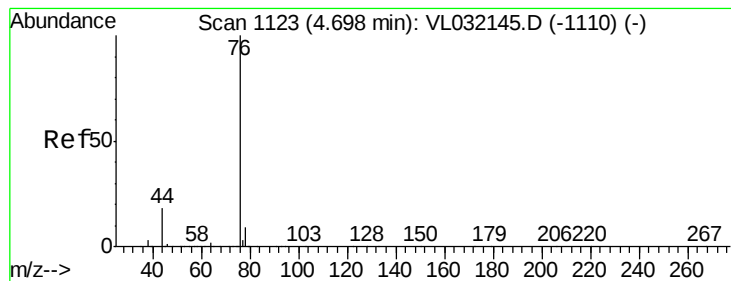
Tgt Ion:	43	Resp:	485052
Ion	Ratio	Lower	Upper
43	100		
45	0.3	7.8	11.8#
61	0.2	7.4	11.0#
70	1.5	6.1	9.1#



#26
Hexane
Concen: 4.386 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Tgt Ion:	57	Resp:	702745
Ion	Ratio	Lower	Upper
57	100		
41	85.9	68.6	103.0
43	69.4	168.6	252.8#
56	52.7	41.0	61.6





#27

Carbon Disulfide

Concen: 0.071 ppbv

RT: 4.70 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

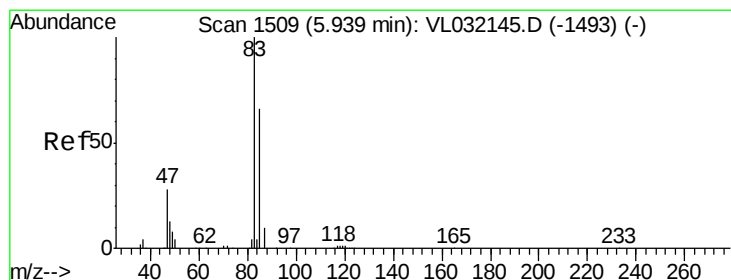
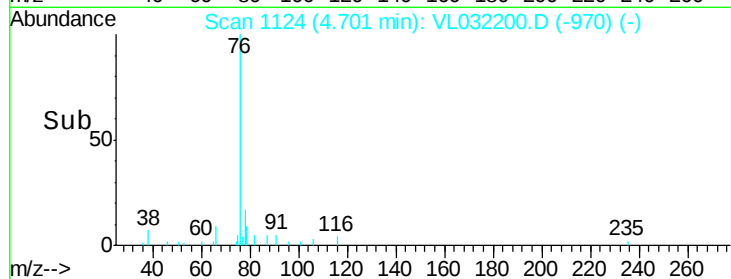
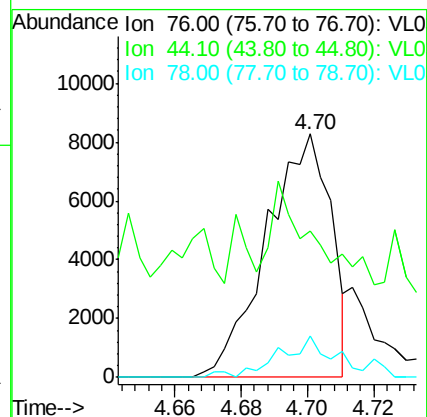
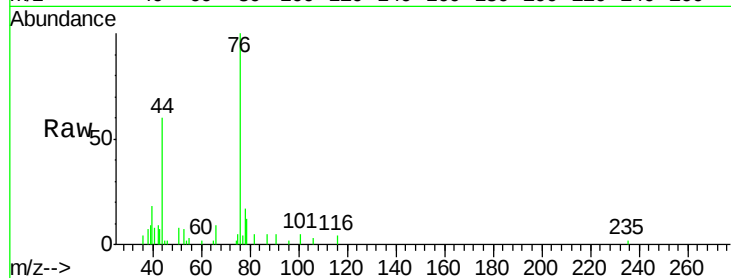
Tgt Ion: 76 Resp: 11232

Ion Ratio Lower Upper

76 100

44 45.2 15.1 22.7#

78 15.9 7.2 10.8#



#29

Chloroform

Concen: 0.250 ppbv

RT: 5.93 min Scan# 1507

Delta R.T. -0.02 min

Lab File: VL032200.D

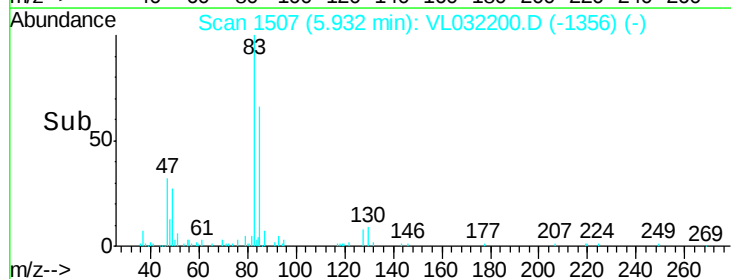
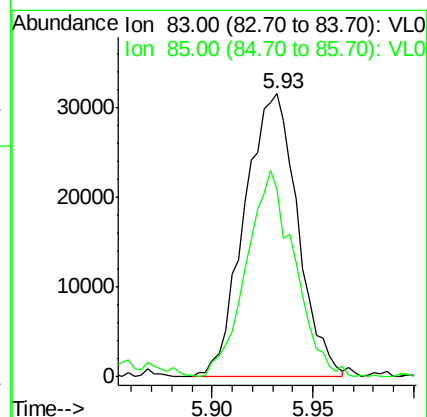
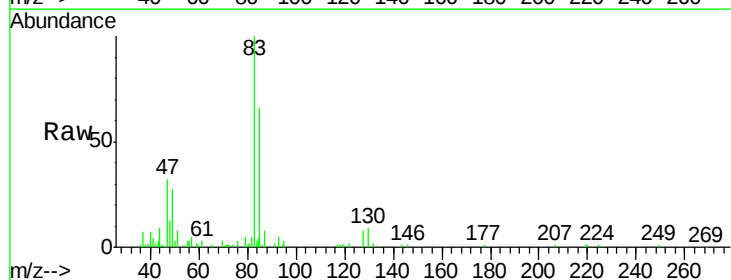
Acq: 3 Jul 2018 3:04

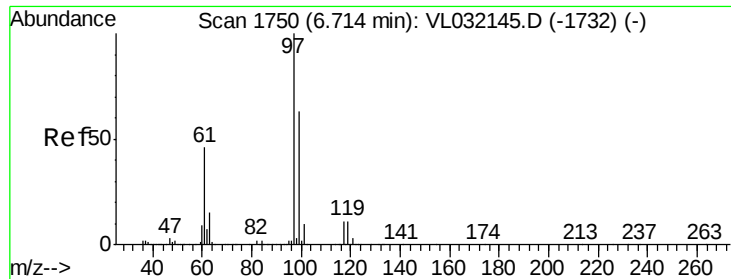
Tgt Ion: 83 Resp: 58359

Ion Ratio Lower Upper

83 100

85 65.7 51.6 77.4





#32

1,1,1-Trichloroethane

Concen: 0.117 ppbv

RT: 6.70 min Scan# 1747

Delta R.T. -0.02 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

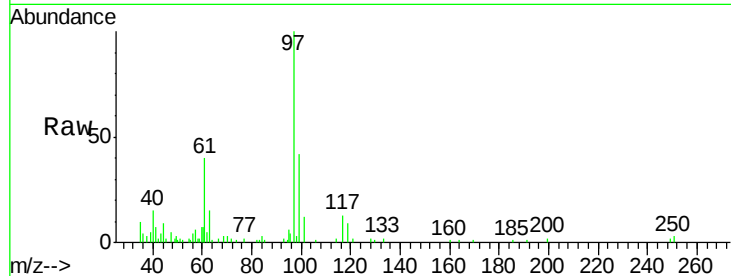
Tgt Ion: 97 Resp: 28656

Ion Ratio Lower Upper

97 100

99 60.8 51.3 76.9

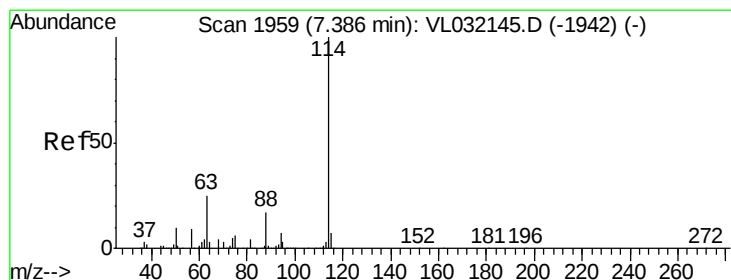
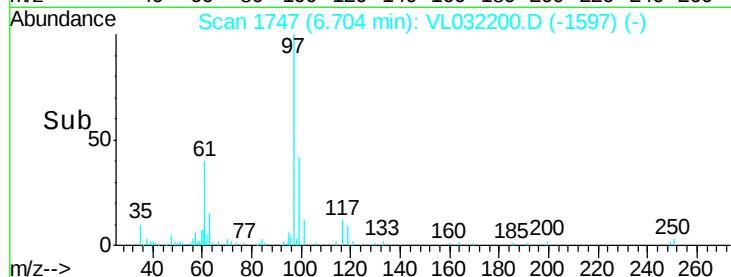
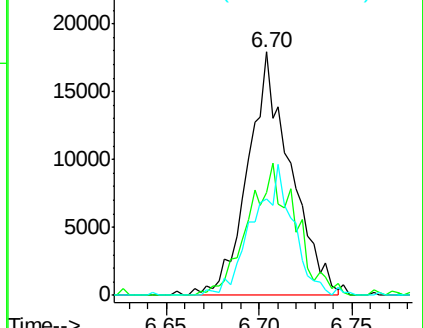
61 50.5 38.4 57.6



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: 7.38 min Scan# 1958

Delta R.T. -0.02 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

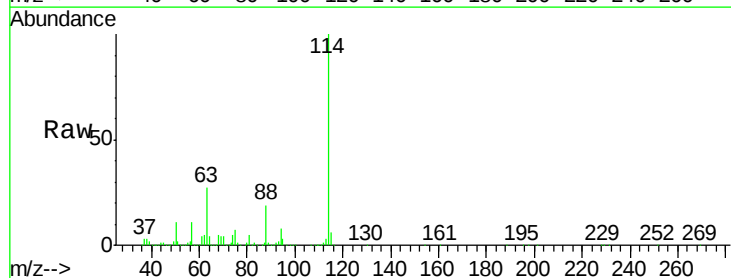
Tgt Ion: 114 Resp: 3593208

Ion Ratio Lower Upper

114 100

63 27.1 19.1 28.7

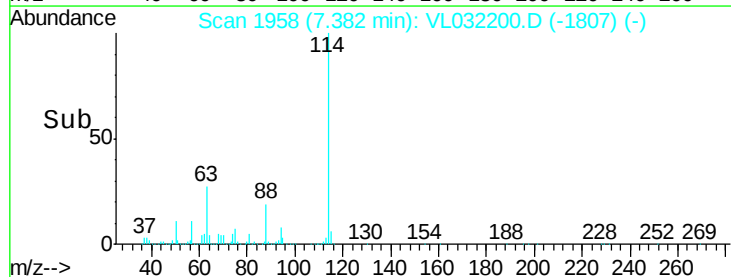
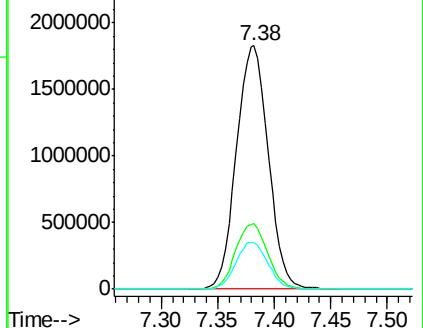
88 19.3 13.9 20.9

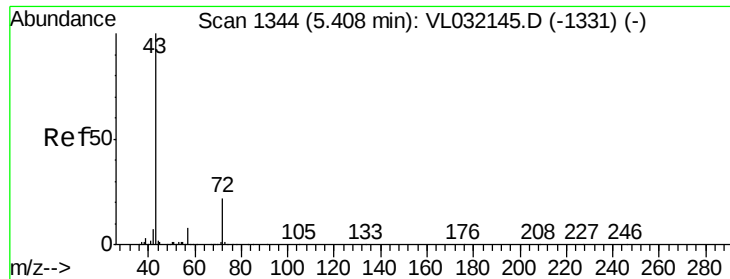


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

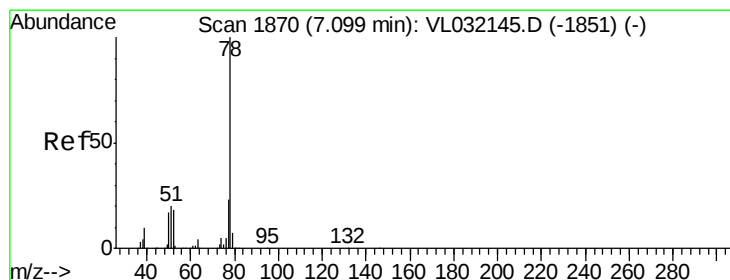
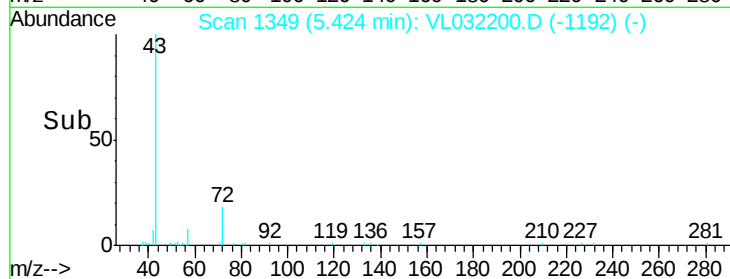
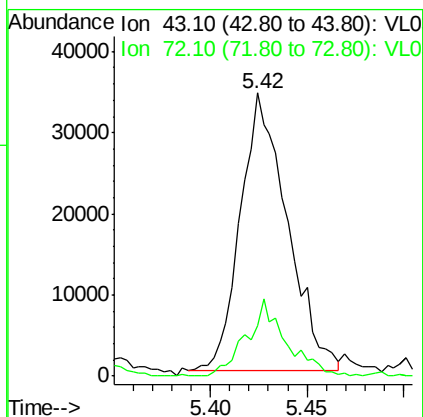
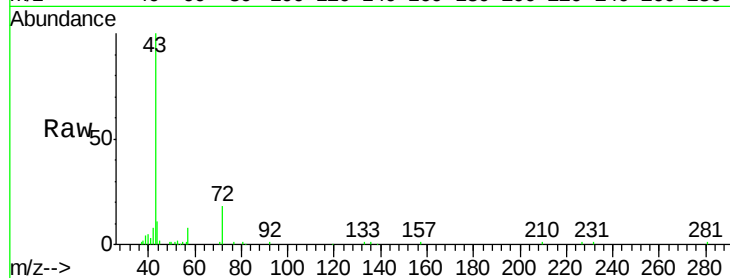




#34
2-Butanone
Concen: 0.251 ppbv
RT: 5.42 min Scan# 1349
Delta R.T. 0.00 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

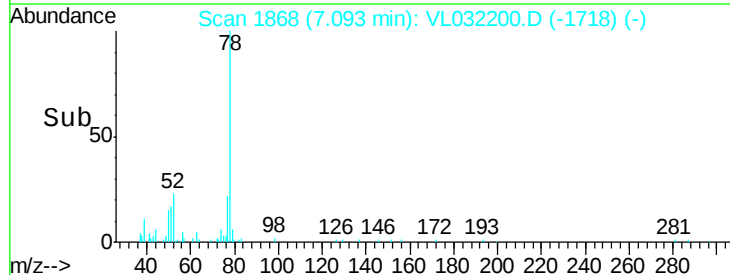
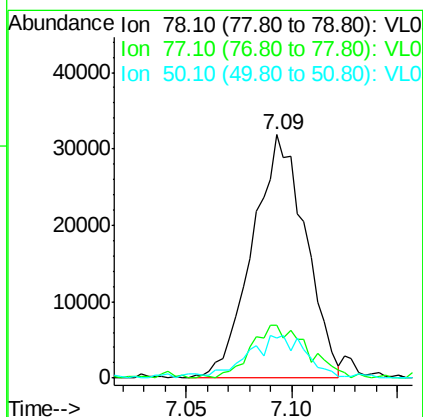
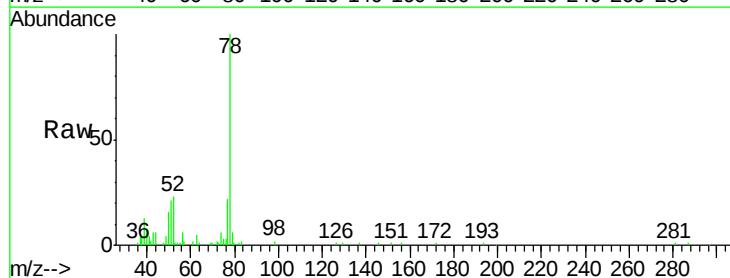
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

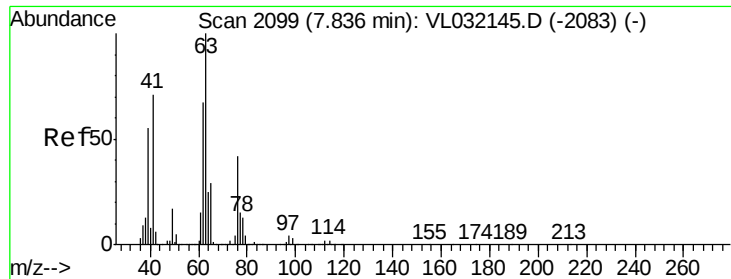
Tgt Ion: 43 Resp: 57149
Ion Ratio Lower Upper
43 100
72 23.7 18.4 27.6



#36
Benzene
Concen: 0.160 ppbv
RT: 7.09 min Scan# 1868
Delta R.T. -0.02 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Tgt Ion: 78 Resp: 55712
Ion Ratio Lower Upper
78 100
77 21.6 17.7 26.5
50 15.6 14.0 21.0





#39

1,2-Dichloropropane

Concen: 6.859 ppbv

RT: 7.38 min Scan# 1958

Delta R.T. -0.47 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

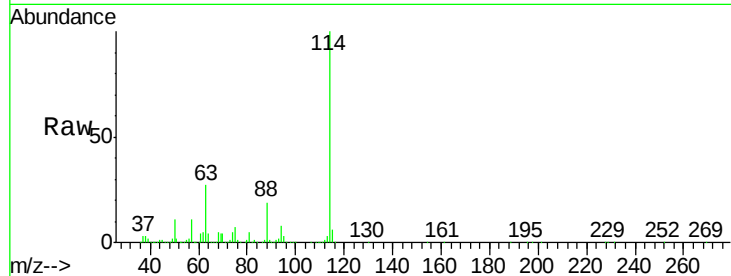
Tgt Ion: 63 Resp: 940847

Ion Ratio Lower Upper

63 100

41 0.0 53.3 79.9#

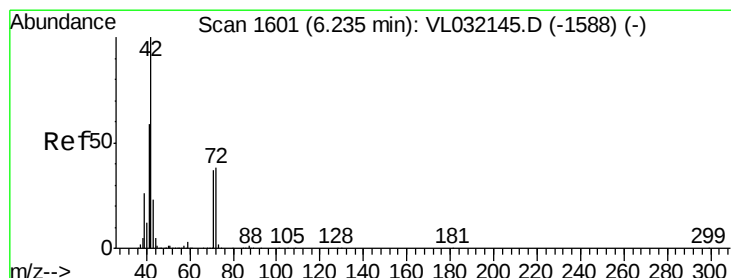
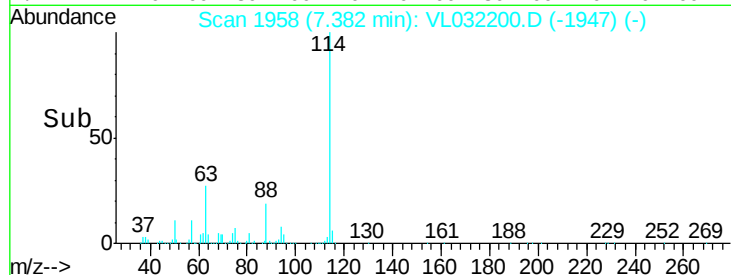
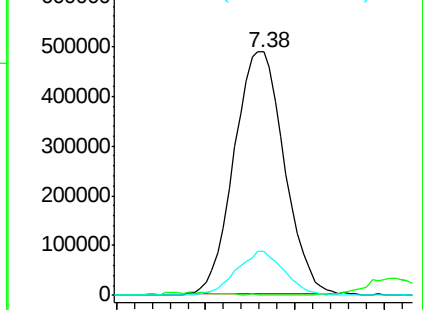
62 17.9 54.8 82.2#



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



#41

Tetrahydrofuran

Concen: 0.069 ppbv

RT: 6.27 min Scan# 1612

Delta R.T. 0.02 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

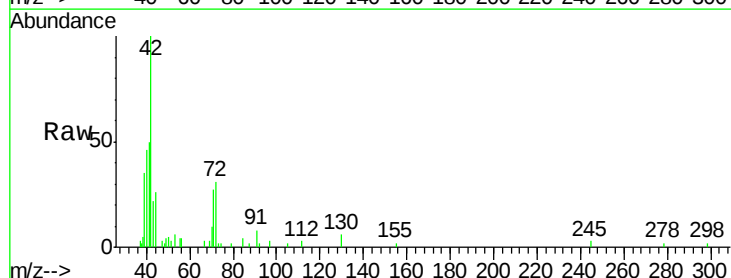
Tgt Ion: 42 Resp: 9391

Ion Ratio Lower Upper

42 100

72 58.6 31.1 46.7#

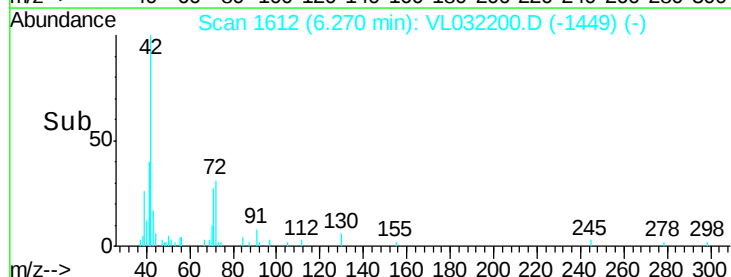
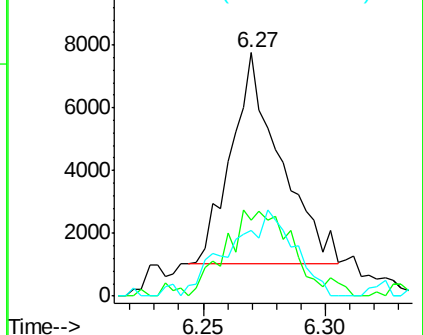
71 55.3 29.5 44.3#

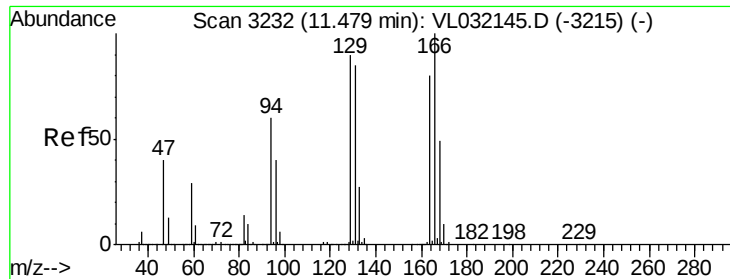


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#52

Tetrachloroethene

Concen: 0.246 ppbv

RT: 11.48 min Scan# 3231

Delta R.T. -0.02 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

Tgt Ion:164 Resp: 31063

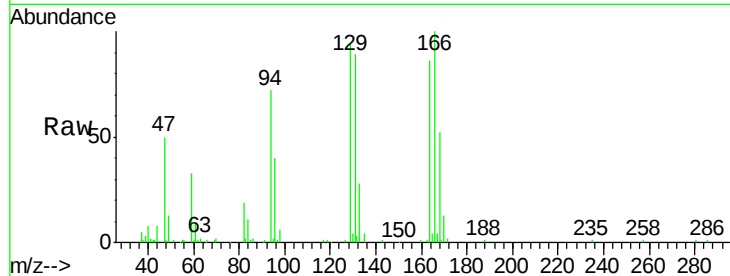
Ion Ratio Lower Upper

164 100

166 111.7 100.6 151.0

129 106.0 84.0 126.0

131 100.6 82.7 124.1

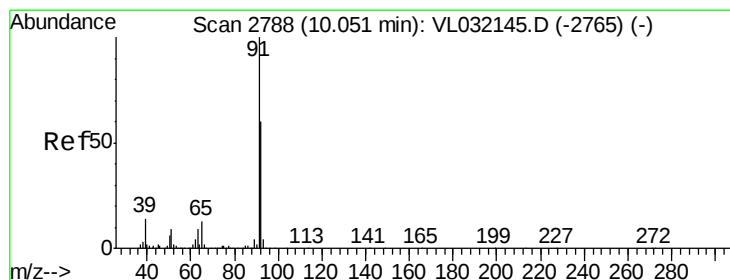
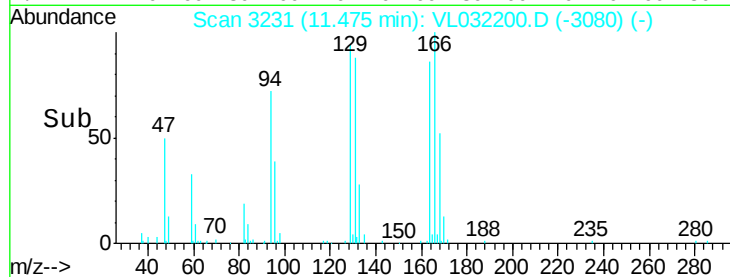
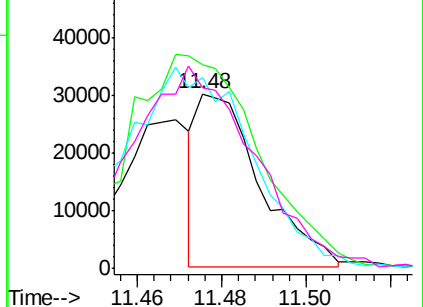


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.083 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032200.D

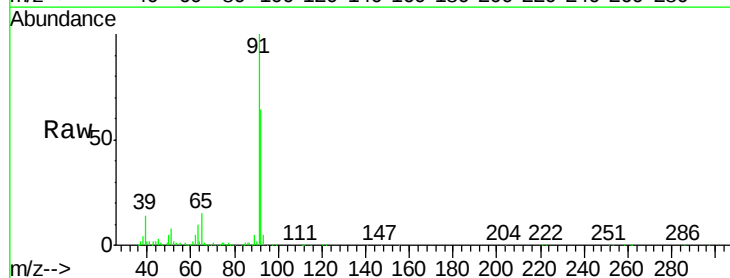
Acq: 3 Jul 2018 3:04

Tgt Ion: 91 Resp: 455281

Ion Ratio Lower Upper

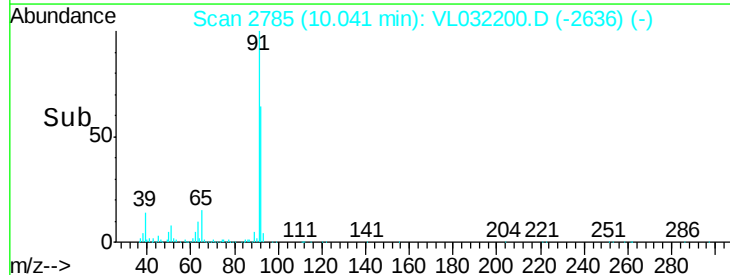
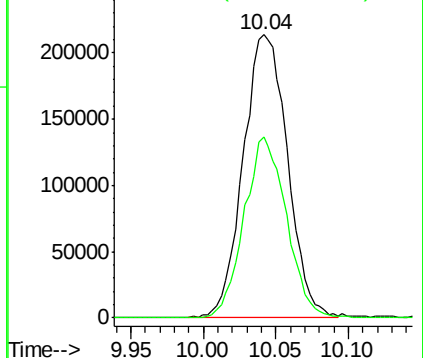
91 100

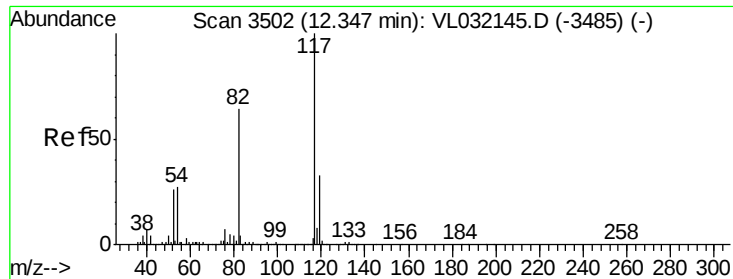
92 61.0 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

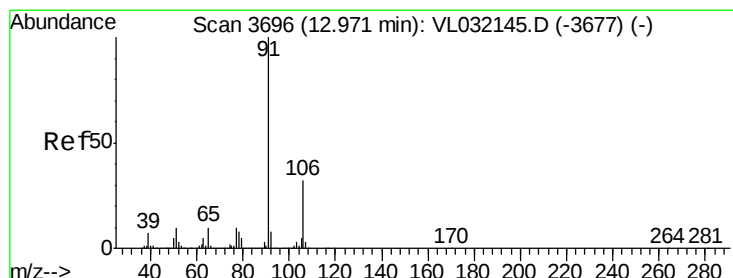
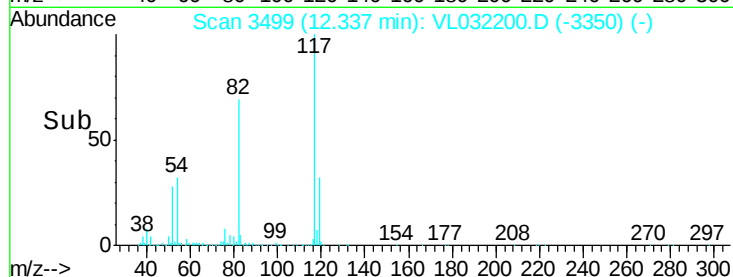
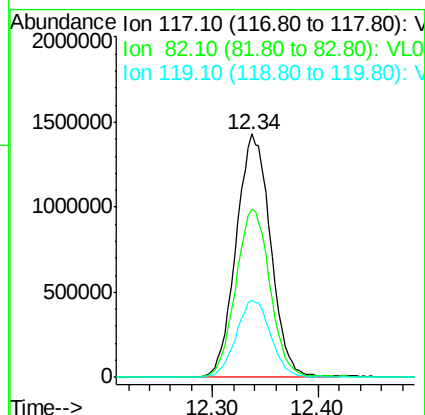
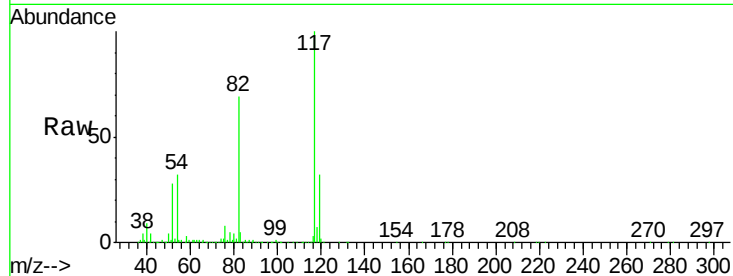




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.34 min Scan# 3499
Delta R.T. -0.02 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

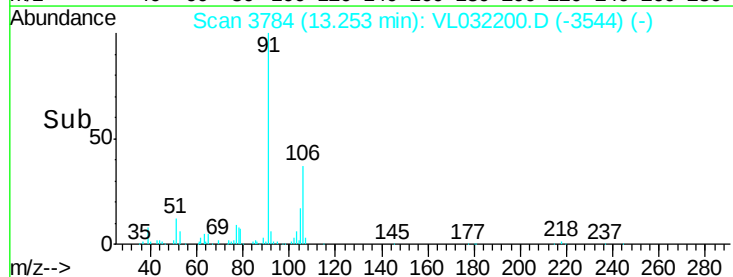
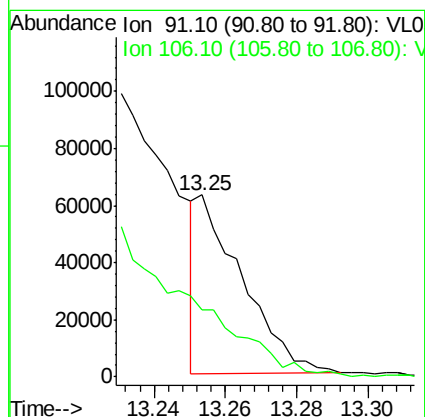
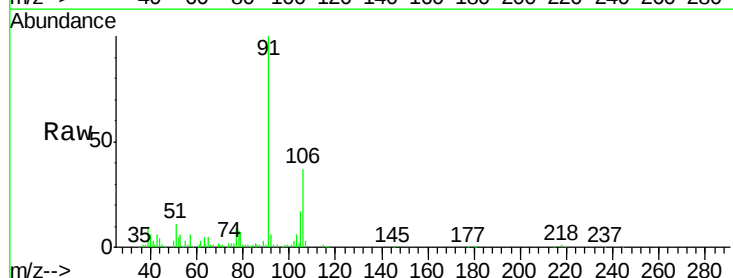
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

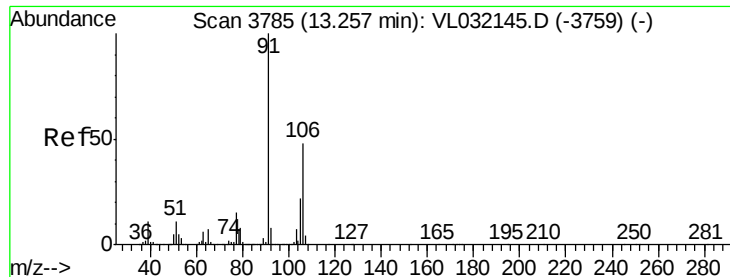
Tgt Ion: 117 Resp: 3246994
Ion Ratio Lower Upper
117 100
82 69.4 47.8 71.8
119 32.0 43.3 64.9#



#58
Ethyl Benzene
Concen: 0.105 ppbv
RT: 13.25 min Scan# 3784
Delta R.T. 0.27 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Tgt Ion: 91 Resp: 54923
Ion Ratio Lower Upper
91 100
106 36.1 26.5 39.7





#59

m/p-Xylene

Concen: 0.131 ppbv

RT: 13.25 min Scan# 3784

Delta R.T. -0.02 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

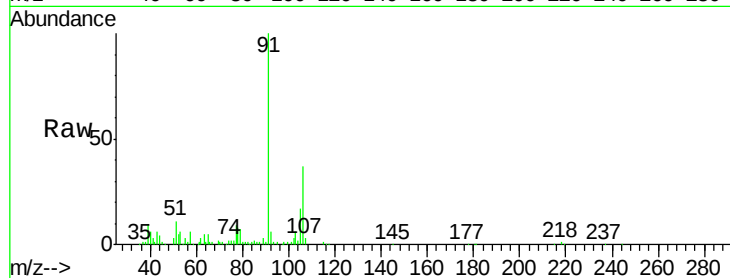
SS-2DL

Tgt Ion: 91 Resp: 54923

Ion Ratio Lower Upper

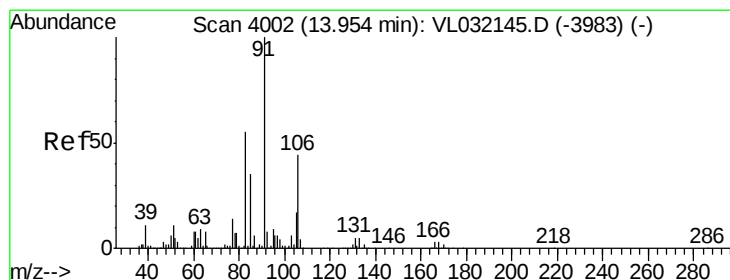
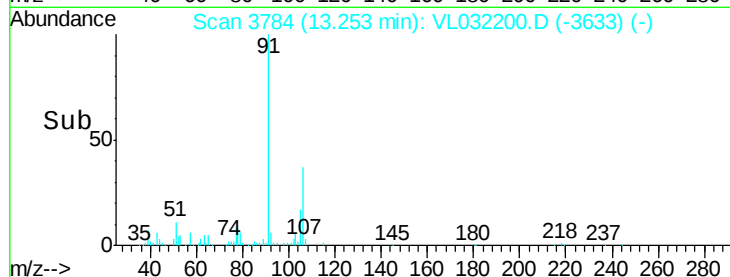
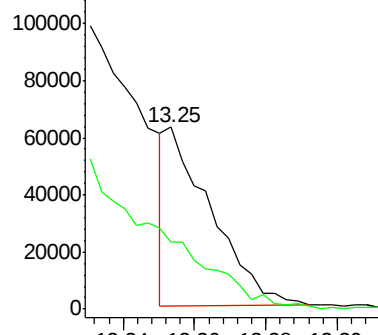
91 100

106 0.0 38.6 58.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.253 ppbv

RT: 13.94 min Scan# 3999

Delta R.T. -0.03 min

Lab File: VL032200.D

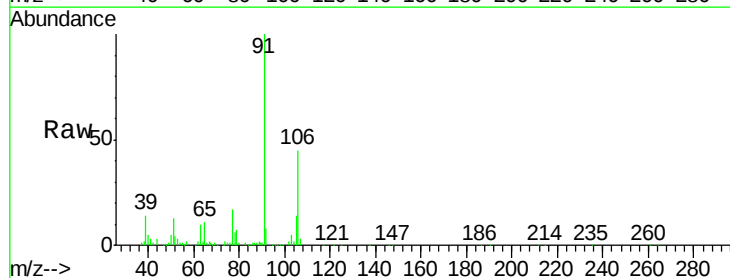
Acq: 3 Jul 2018 3:04

Tgt Ion: 91 Resp: 105990

Ion Ratio Lower Upper

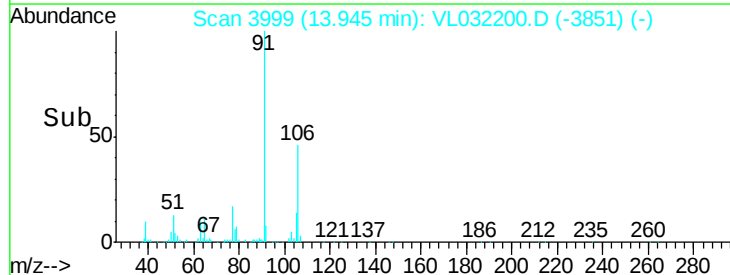
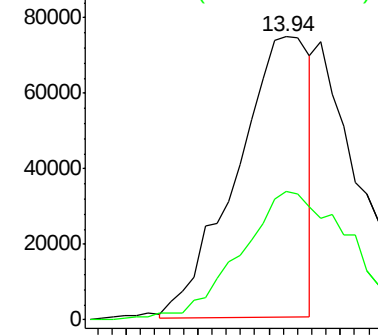
91 100

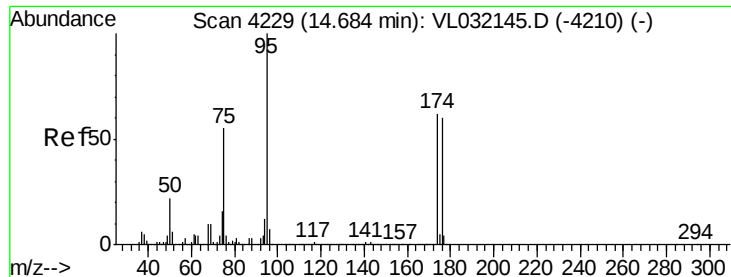
106 69.6 23.3 69.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

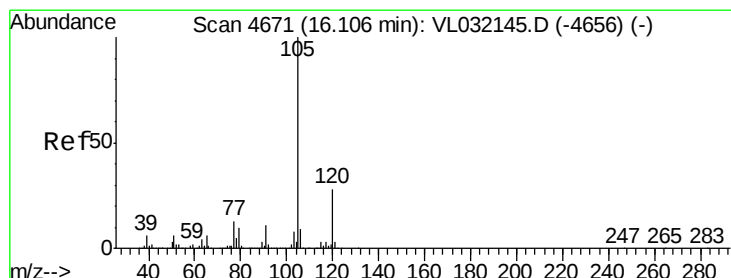
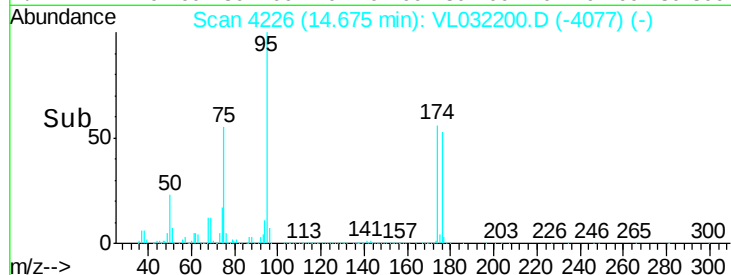
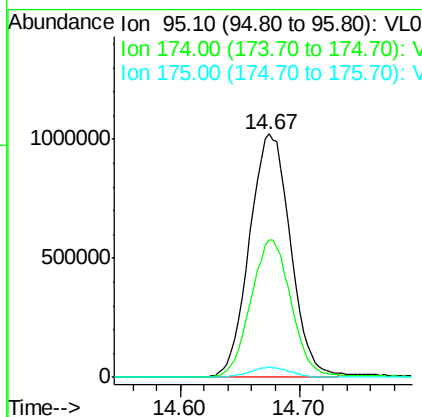
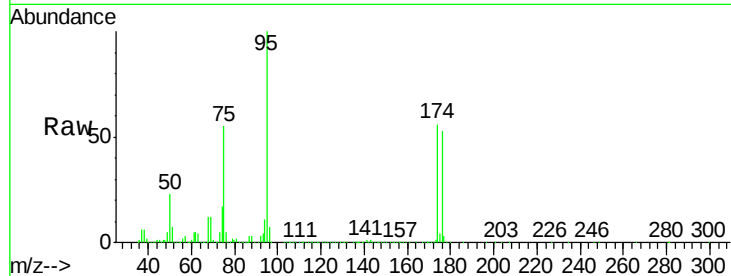




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.818 ppbv
 RT: 14.67 min Scan# 4226
 Delta R.T. -0.02 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

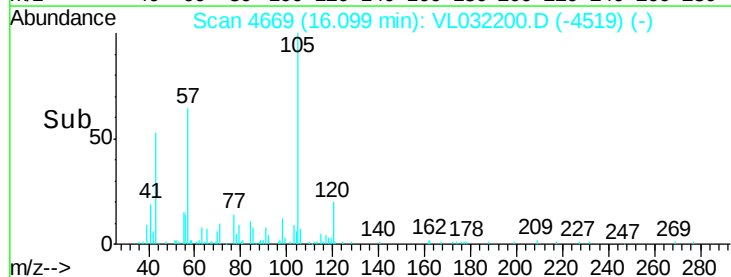
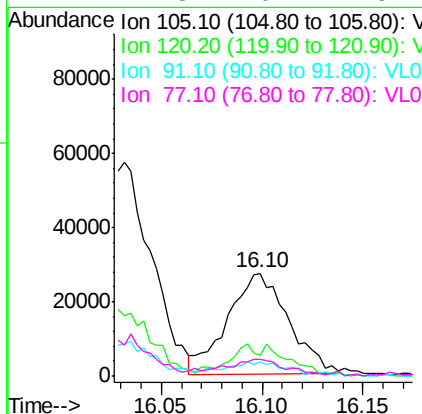
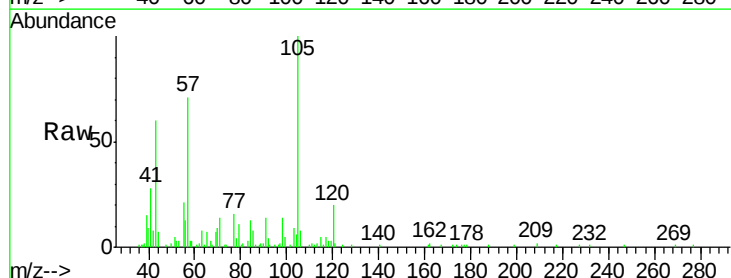
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

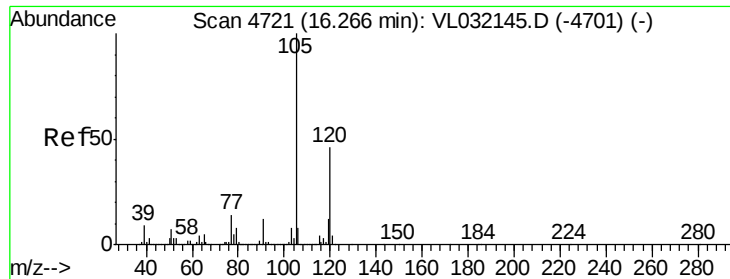
Tgt Ion: 95 Resp: 2436818
 Ion Ratio Lower Upper
 95 100
 174 56.9 52.1 78.1
 175 4.1 4.0 6.0



#72
 4-Ethyltoluene
 Concen: 0.106 ppbv
 RT: 16.10 min Scan# 4669
 Delta R.T. -0.02 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

Tgt Ion: 105 Resp: 57324
 Ion Ratio Lower Upper
 105 100
 120 30.1 24.3 36.5
 91 16.7 9.4 14.0#
 77 17.8 10.2 15.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.116 ppbv

RT: 16.26 min Scan# 4718

Delta R.T. -0.02 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

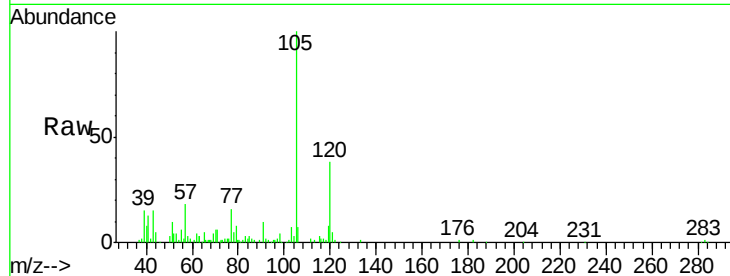
SS-2DL

Tgt Ion:105 Resp: 58988

Ion Ratio Lower Upper

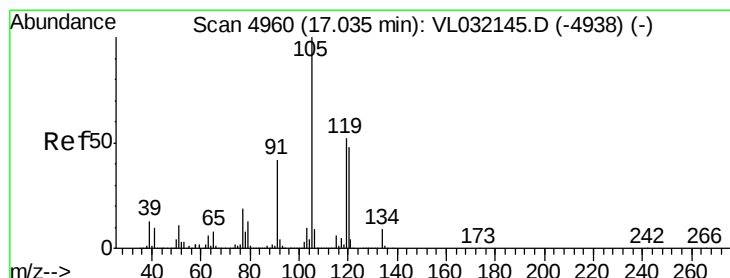
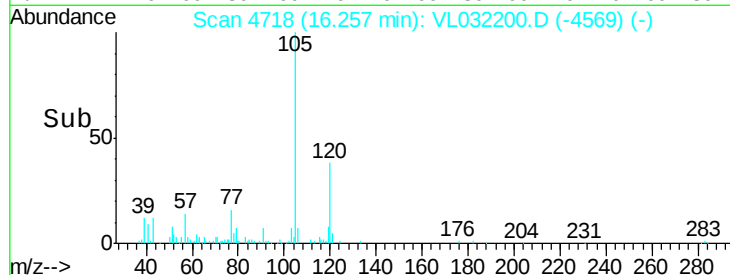
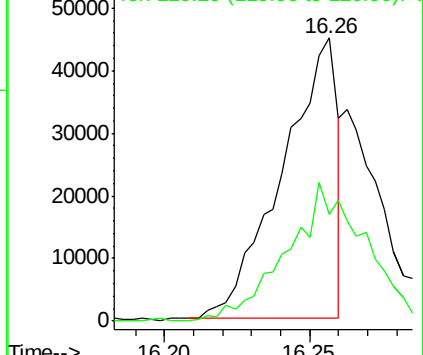
105 100

120 37.8 38.6 57.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.475 ppbv

RT: 17.02 min Scan# 4956

Delta R.T. -0.03 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Tgt Ion:105 Resp: 244050

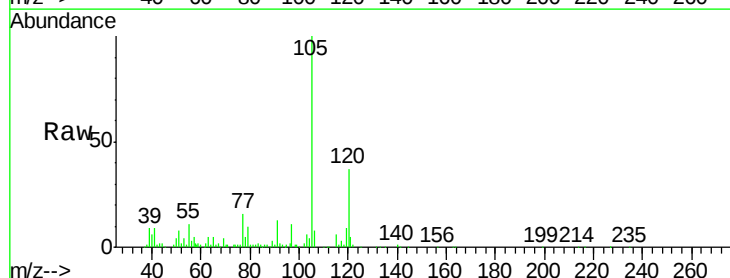
Ion Ratio Lower Upper

105 100

120 37.6 38.8 58.2#

91 13.1 33.6 50.4#

77 15.8 16.0 24.0#

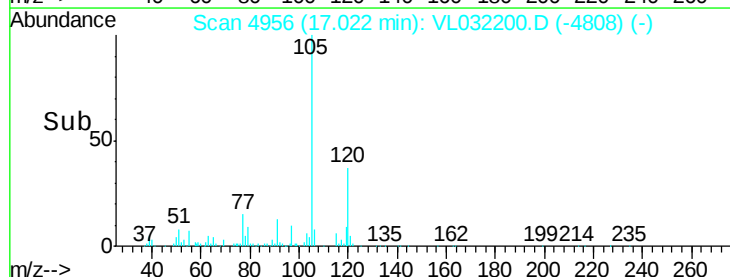
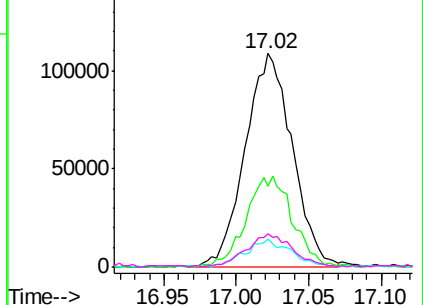


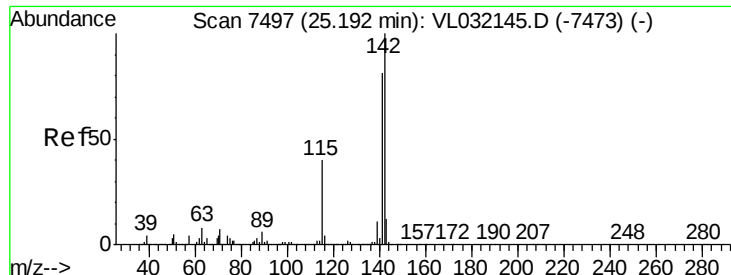
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#80

Naphthalene, 2-methyl-

Concen: 0.060 ppbv

RT: 25.20 min Scan# 7498

Delta R.T. -0.01 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

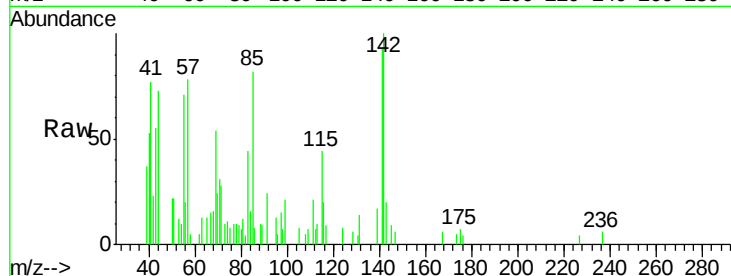
Tgt Ion:142 Resp: 10084

Ion Ratio Lower Upper

142 100

141 91.3 65.8 98.6

115 60.7 29.4 44.0#



Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

