

Data File : VL034143.D
Acq On : 10 Sep 2019 15:15
Operator : SY/AP
Sample : K4775-02DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV5DL

Quant Time: Sep 11 01:49:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Sep 05 10:21:45 2019
QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	857250	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.22	114	1614621	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	1611736	10.00	ppbv	-0.02

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.50 95 1382707 10.49 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.90%

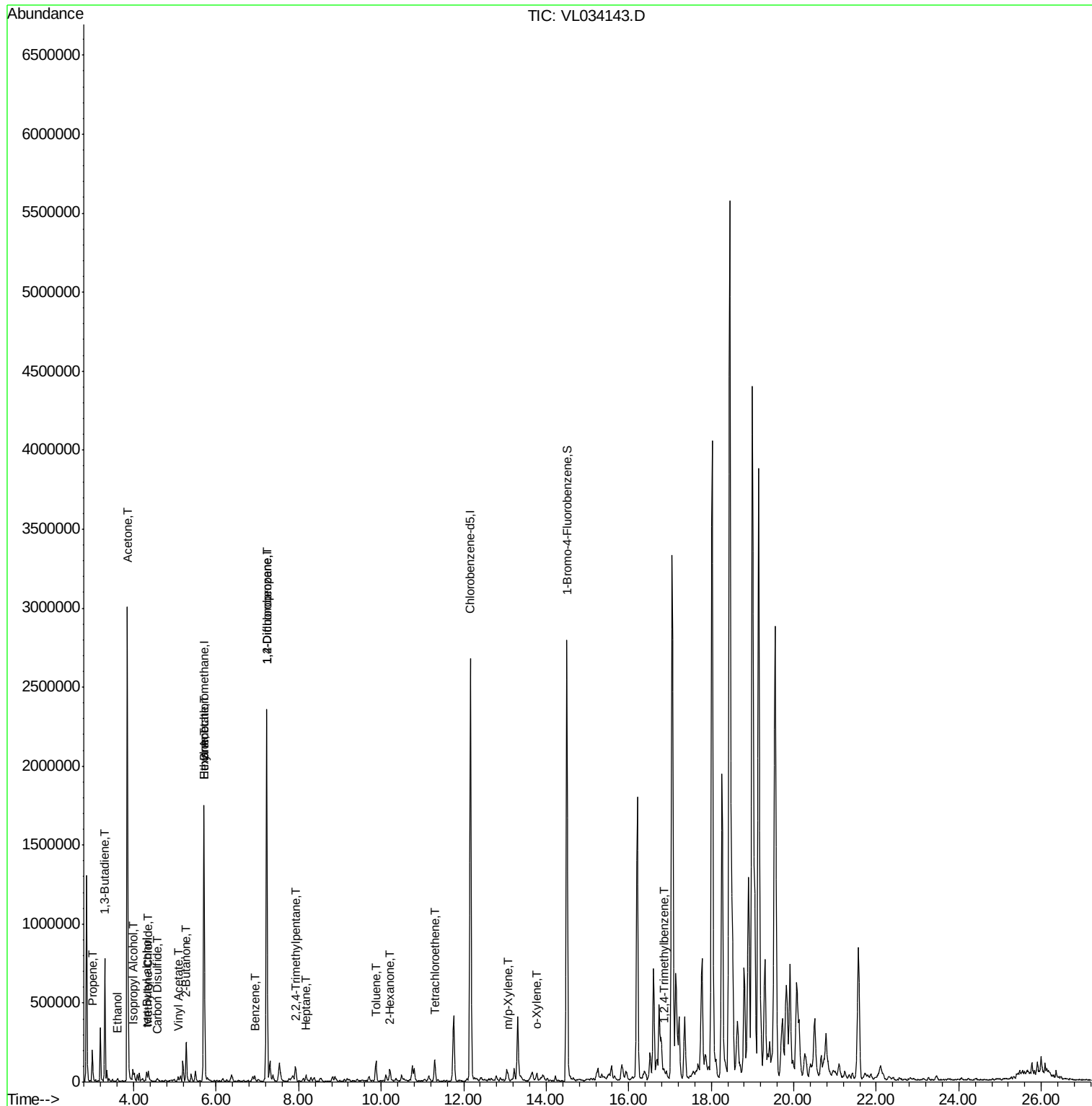
Target Compounds					Qvalue
9) Propene	3.00	41	76746	1.435 ppbv	97
10) Heptane	8.18	43	9843	0.071 ppbv #	40
13) Ethanol	3.61	45	21113	2.016 ppbv	96
15) Acetone	3.84	43	3103719	30.041 ppbv	94
16) 1,3-Butadiene	3.30	39	187533	3.584 ppbv #	18
17) tert-Butyl alcohol	4.31	59	20389	0.272 ppbv #	72
19) Isopropyl Alcohol	3.98	45	70806	1.015 ppbv #	97
20) Methylene Chloride	4.36	84	16381	0.480 ppbv	96
23) Vinyl Acetate	5.09	43	13460	0.077 ppbv #	48
25) Ethyl Acetate	5.72	43	63953	0.282 ppbv #	79
26) Hexane	5.72	57	83997	0.833 ppbv #	40
27) Carbon Disulfide	4.56	76	13913	0.153 ppbv #	50
34) 2-Butanone	5.27	43	284147	1.831 ppbv	99
36) Benzene	6.94	78	9408	0.051 ppbv	97
39) 1,2-Dichloropropane	7.22	63	482004	6.103 ppbv #	24
44) 2,2,4-Trimethylpentane	7.92	57	87863	0.258 ppbv	92
51) 2-Hexanone	10.21	43	65145	0.318 ppbv #	93
52) Tetrachloroethene	11.30	164	30683	0.471 ppbv	92
53) Toluene	9.87	91	76775	0.376 ppbv	98
59) m/p-Xylene	13.08	91	9153	0.042 ppbv #	32
60) o-Xylene	13.77	91	12841	0.060 ppbv #	19
74) 1,2,4-Trimethylbenzene	16.85	105	19676	0.081 ppbv #	77

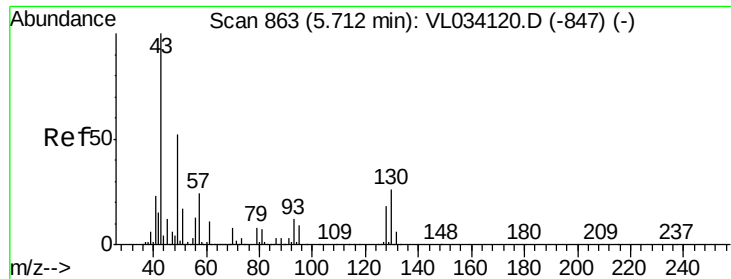
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.01 min

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ClientSampleId :

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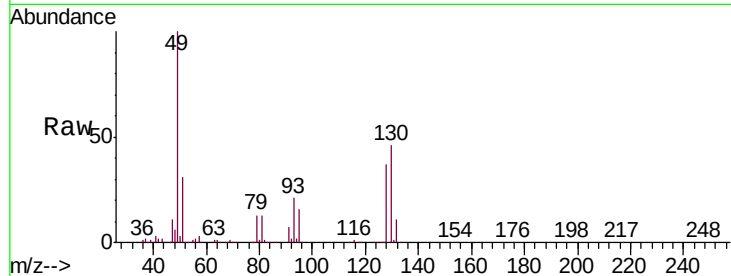
Tgt Ion: 49 Resp: 857250

Ion Ratio Lower Upper

49 100

128 37.7 18.4 55.0

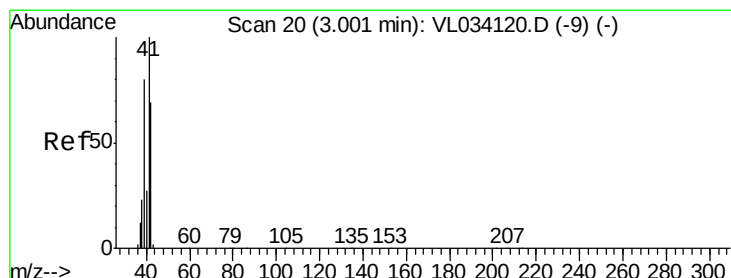
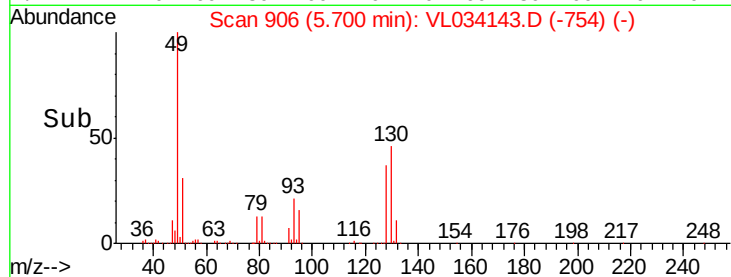
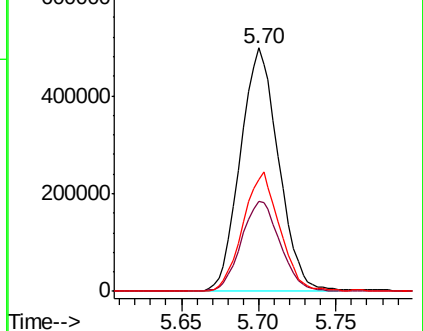
130 47.6 23.5 70.6



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



#9

Propene

Concen: 1.435 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL034143.D

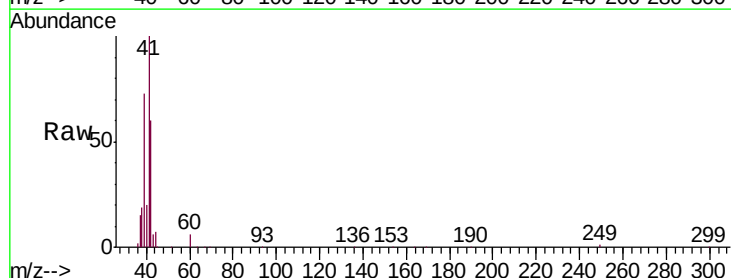
Acq: 10 Sep 2019 15:15

Tgt Ion: 41 Resp: 76746

Ion Ratio Lower Upper

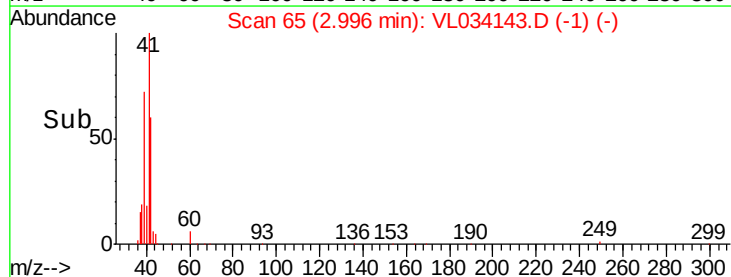
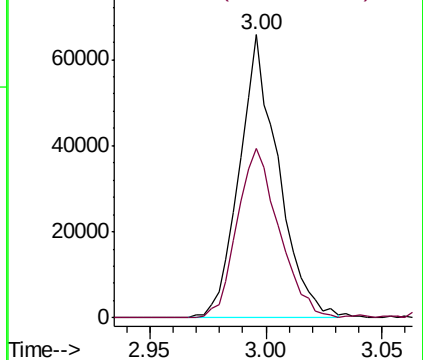
41 100

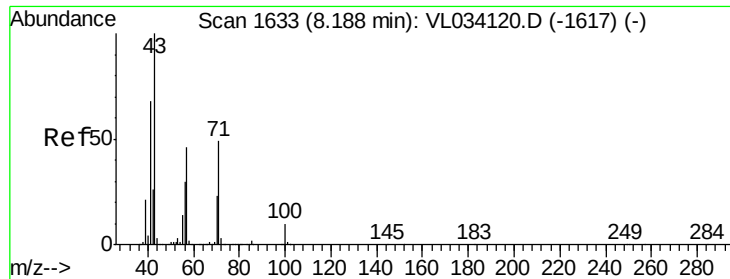
42 65.6 54.6 81.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.071 ppbv

RT: 8.18 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

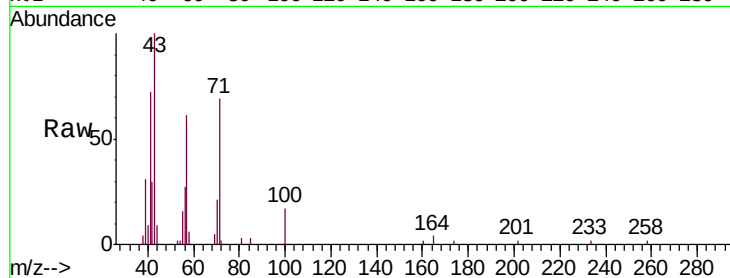
SV5DL

Tgt Ion: 43 Resp: 9843

Ion Ratio Lower Upper

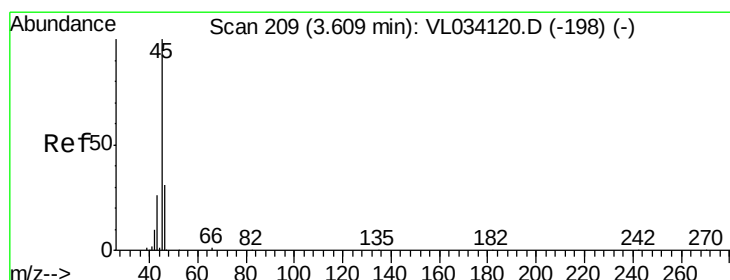
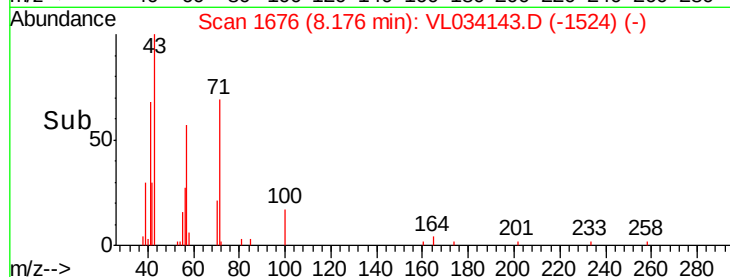
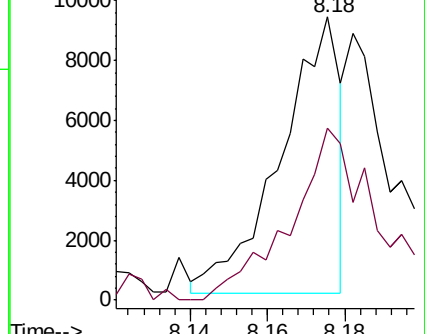
43 100

57 87.9 38.1 57.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 2.016 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL034143.D

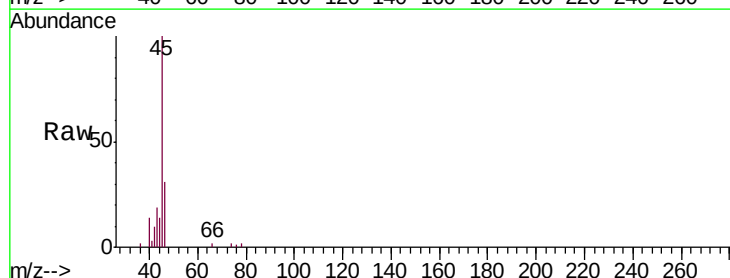
Acq: 10 Sep 2019 15:15

Tgt Ion: 45 Resp: 21113

Ion Ratio Lower Upper

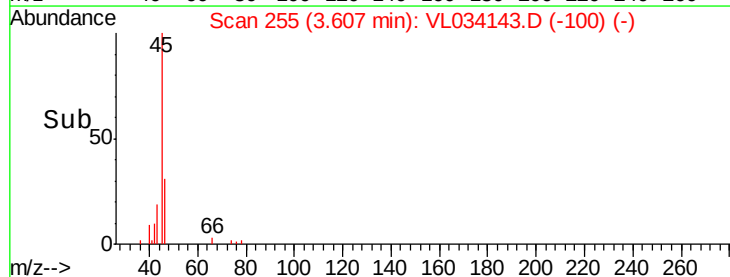
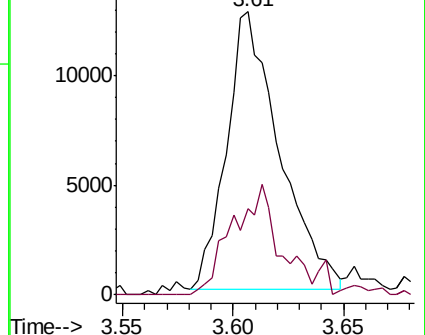
45 100

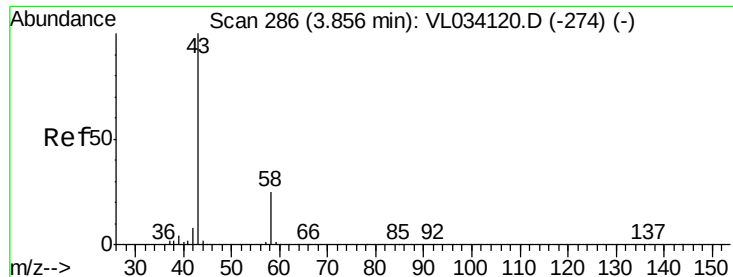
46 39.7 15.0 60.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 30.041 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

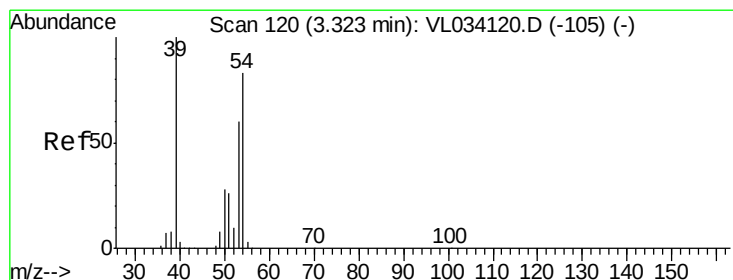
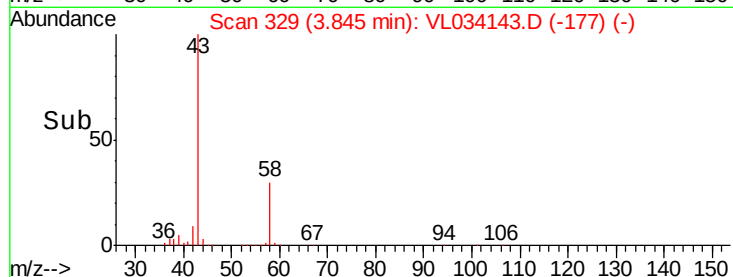
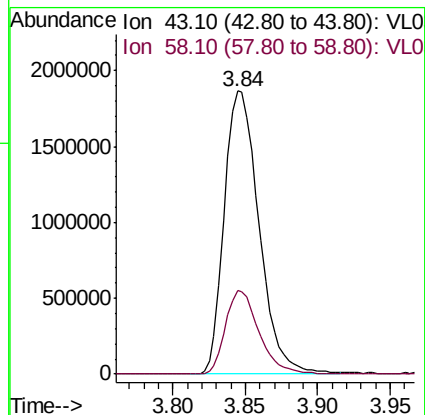
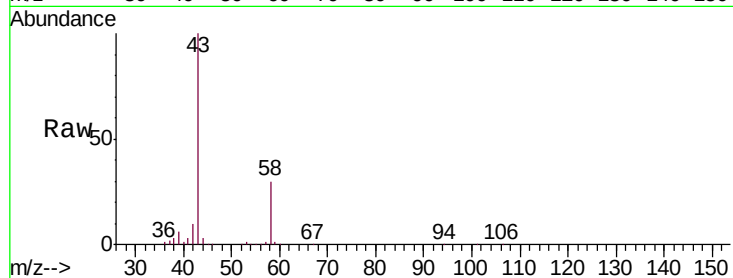
SV5DL

Tgt Ion: 43 Resp: 3103719

Ion Ratio Lower Upper

43 100

58 28.7 20.6 30.8



#16

1,3-Butadiene

Concen: 3.584 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL034143.D

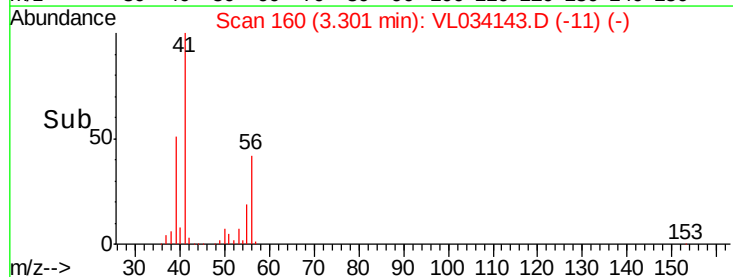
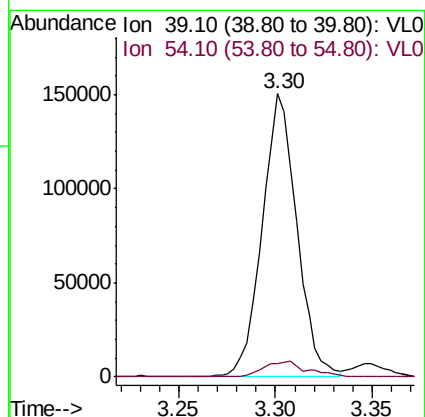
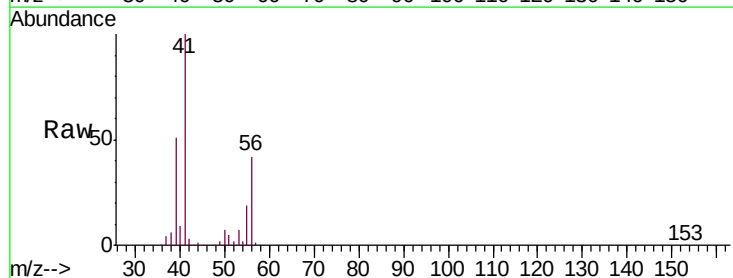
Acq: 10 Sep 2019 15:15

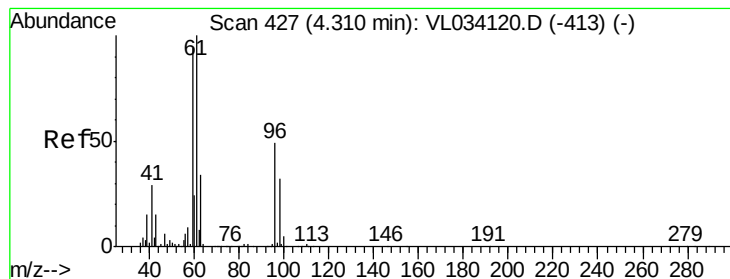
Tgt Ion: 39 Resp: 187533

Ion Ratio Lower Upper

39 100

54 7.0 63.5 95.3#



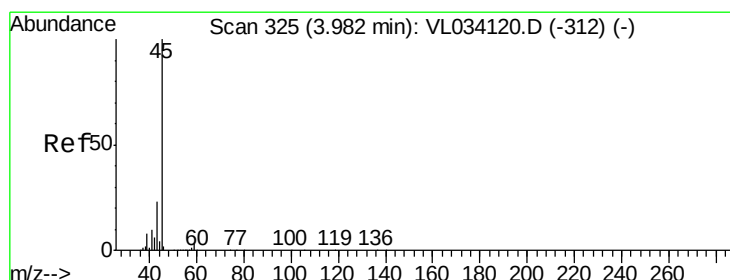
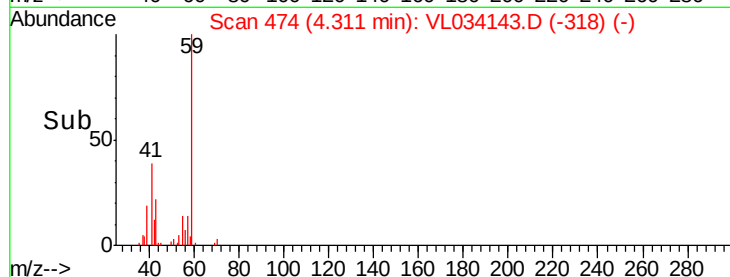
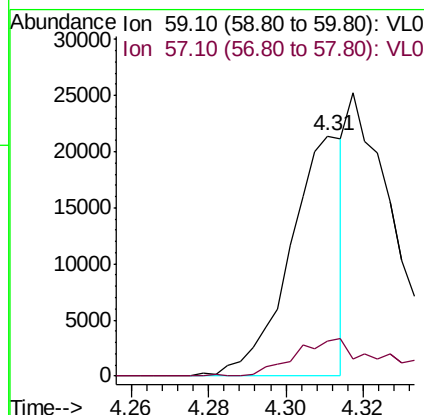
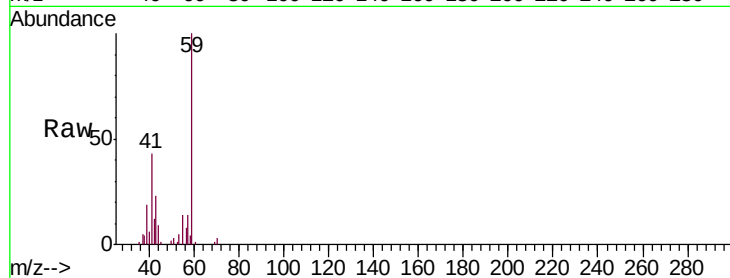


#17

tert-Butyl alcohol
 Concen: 0.272 ppbv
 RT: 4.31 min Scan# 474
 Delta R.T. 0.00 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5DL

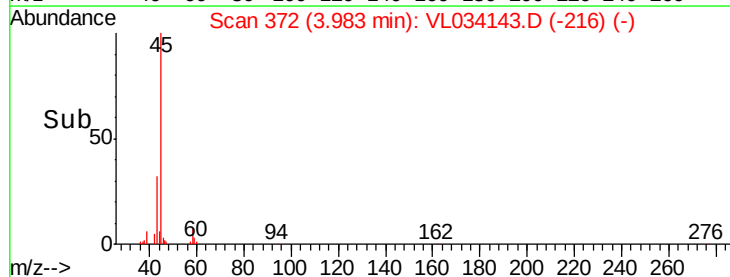
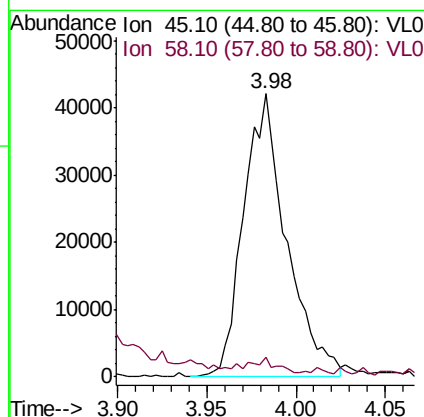
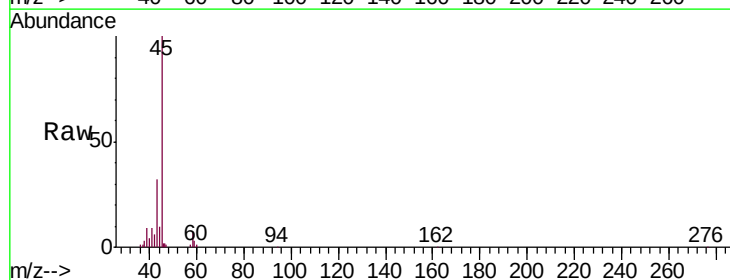
Tgt Ion: 59 Resp: 20389
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 12.8#

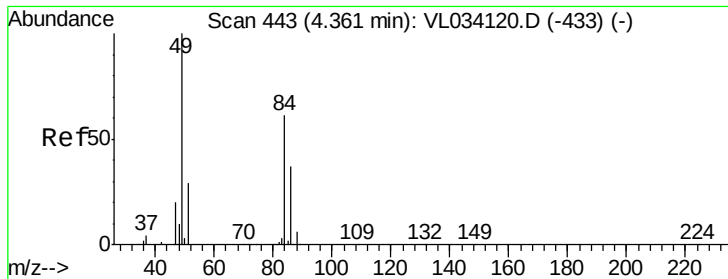


#19

Isopropyl Alcohol
 Concen: 1.015 ppbv
 RT: 3.98 min Scan# 372
 Delta R.T. 0.00 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

Tgt Ion: 45 Resp: 70806
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.0 1.6#

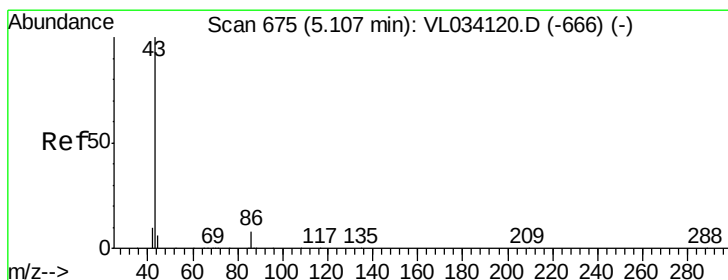
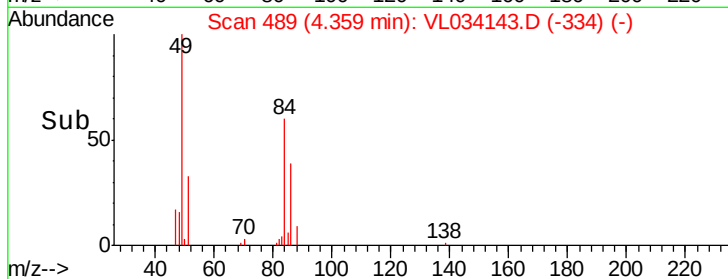
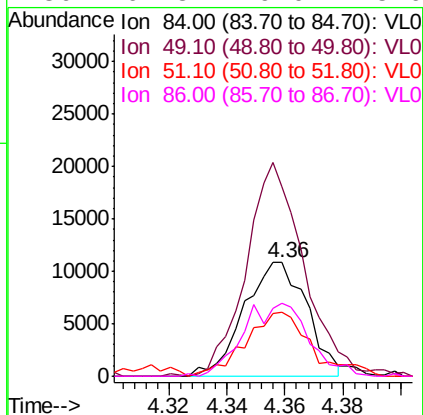
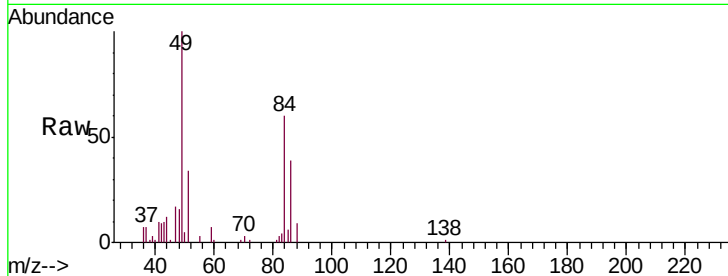




#20
Methylene Chloride
Concen: 0.480 ppbv
RT: 4.36 min Scan# 489
Delta R.T. -0.00 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

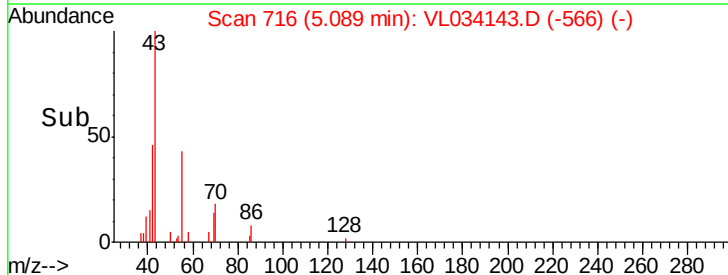
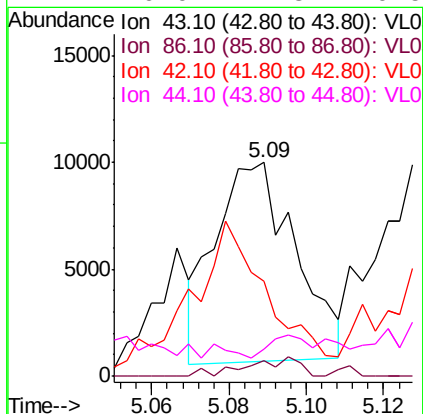
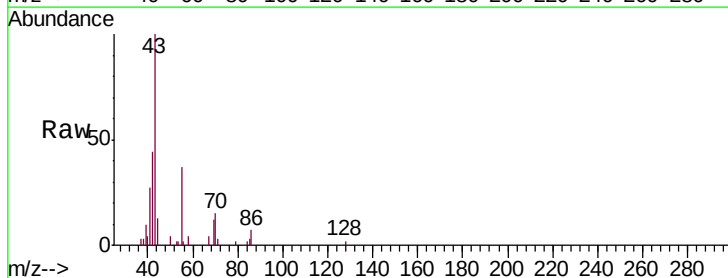
Instrument :
MSVOA_L
ClientSampleId :
SV5DL

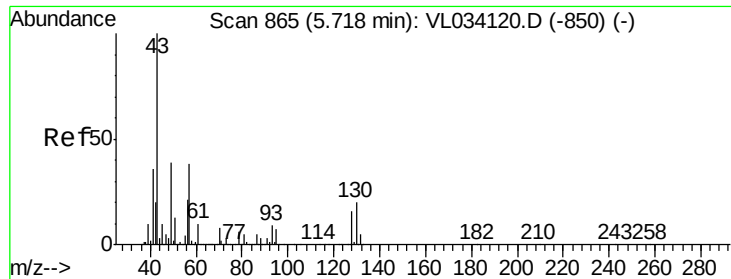
Tgt Ion:	84	Resp:	16381
Ion	Ratio	Lower	Upper
84	100		
49	166.6	131.0	196.6
51	56.5	38.1	57.1
86	62.3	49.0	73.6



#23
Vinyl Acetate
Concen: 0.077 ppbv
RT: 5.09 min Scan# 716
Delta R.T. -0.02 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

Tgt Ion:	43	Resp:	13460
Ion	Ratio	Lower	Upper
43	100		
86	9.6	5.5	8.3#
42	47.8	8.2	12.4#
44	0.0	4.3	6.5#

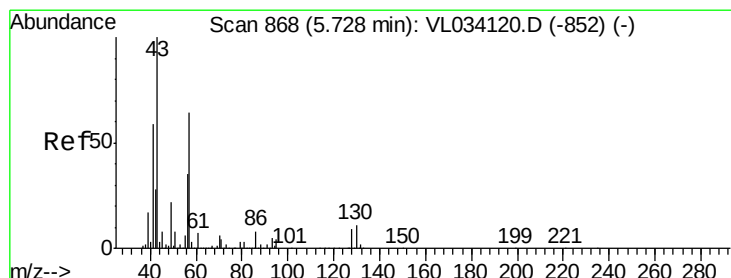
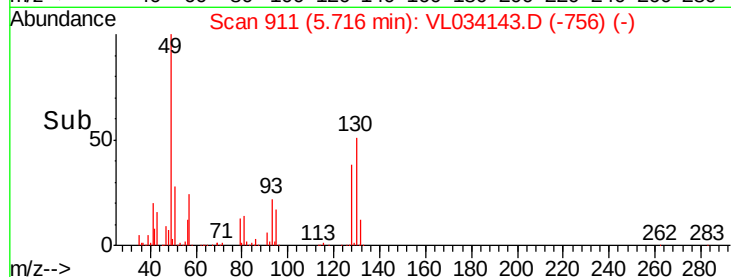
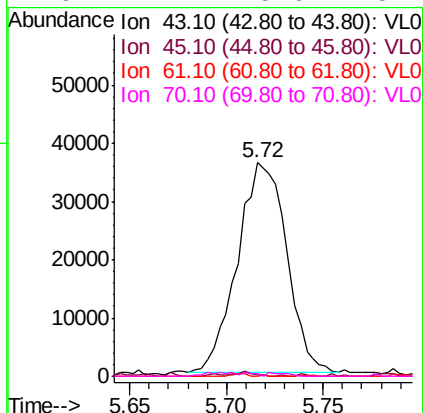
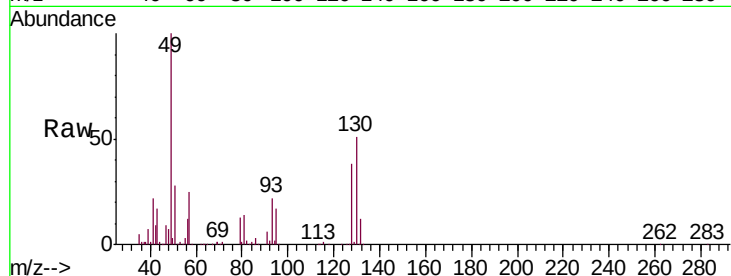




#25
Ethyl Acetate
Concen: 0.282 ppbv
RT: 5.72 min Scan# 911
Delta R.T. -0.00 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

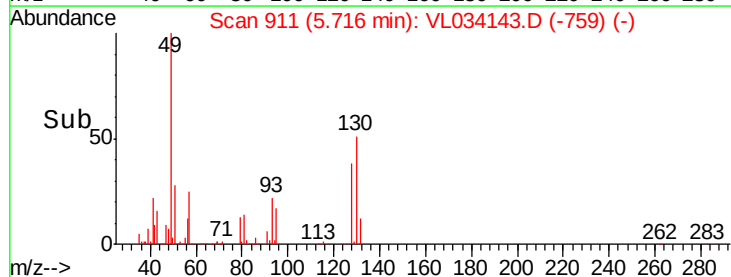
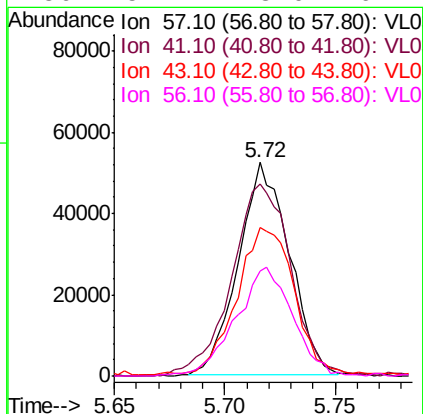
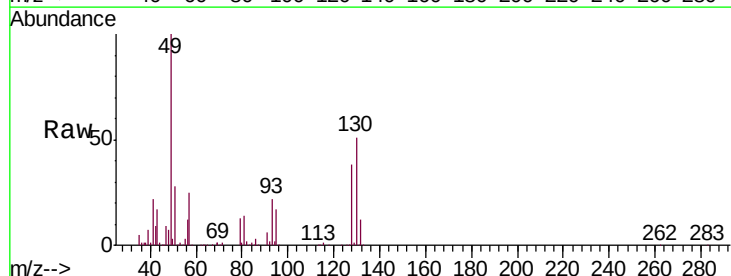
Instrument :
MSVOA_L
ClientSampleId :
SV5DL

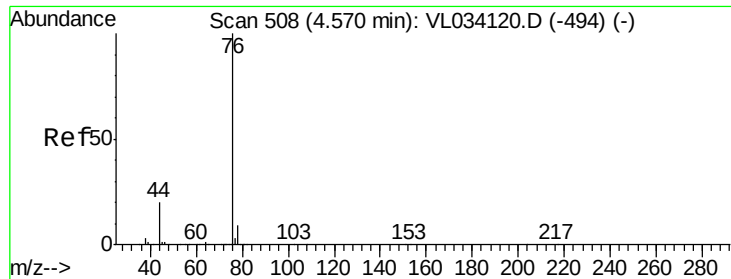
Tgt Ion:	43	Resp:	63953
Ion	Ratio	Lower	Upper
43	100		
45	1.4	8.2	12.4#
61	0.4	7.4	11.2#
70	2.2	5.6	8.4#



#26
Hexane
Concen: 0.833 ppbv
RT: 5.72 min Scan# 911
Delta R.T. -0.01 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

Tgt Ion:	57	Resp:	83997
Ion	Ratio	Lower	Upper
57	100		
41	105.2	76.6	115.0
43	80.2	189.2	283.8#
56	57.1	43.0	64.4





#27

Carbon Disulfide

Concen: 0.153 ppbv

RT: 4.56 min Scan# 553

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

SV5DL

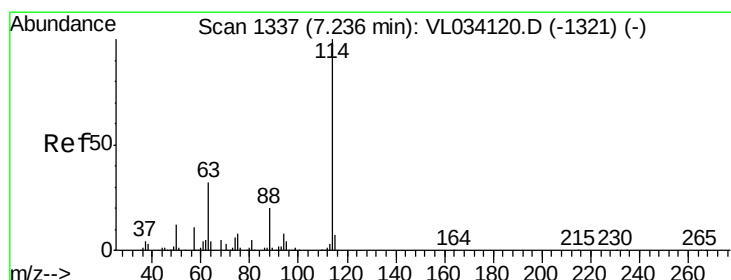
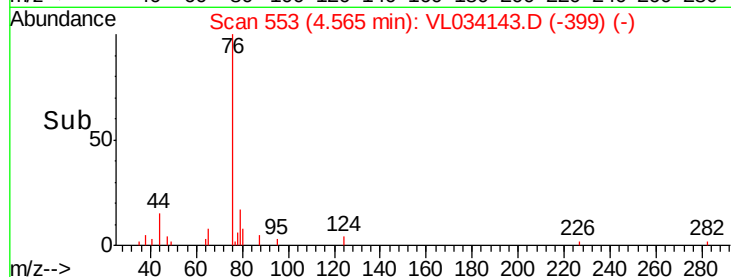
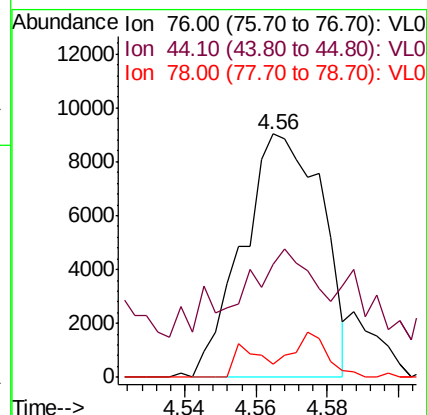
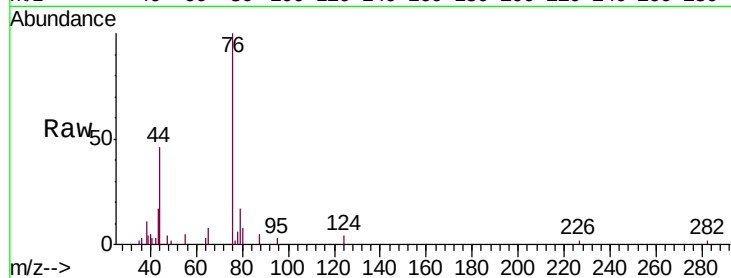
Tgt Ion: 76 Resp: 13913

Ion Ratio Lower Upper

76 100

44 53.7 17.6 26.4#

78 13.3 7.3 10.9#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

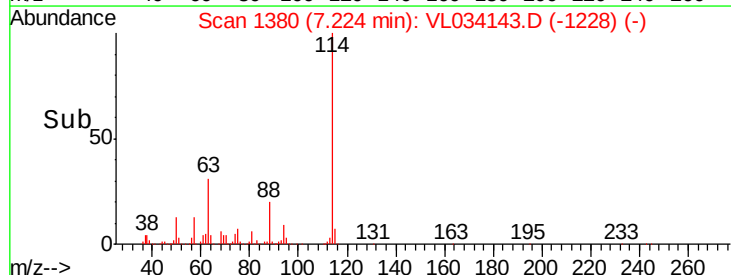
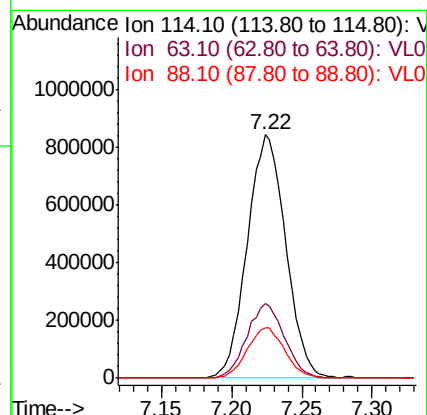
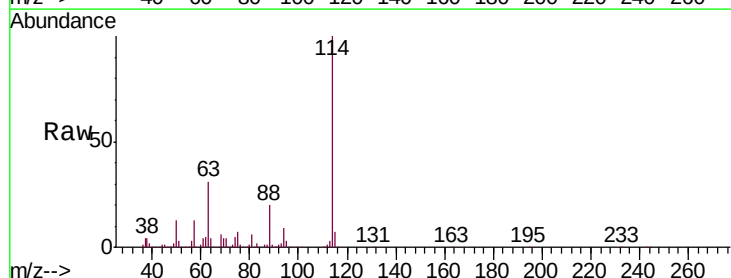
Tgt Ion: 114 Resp: 1614621

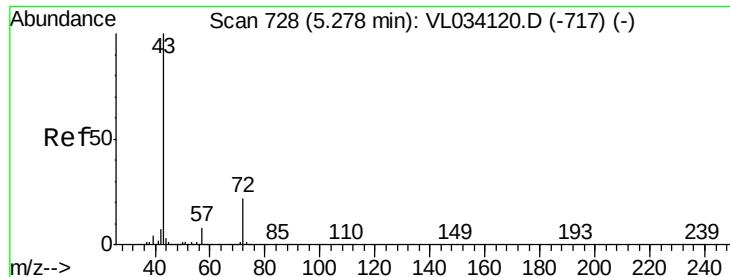
Ion Ratio Lower Upper

114 100

63 30.0 25.5 38.3

88 20.3 16.8 25.2

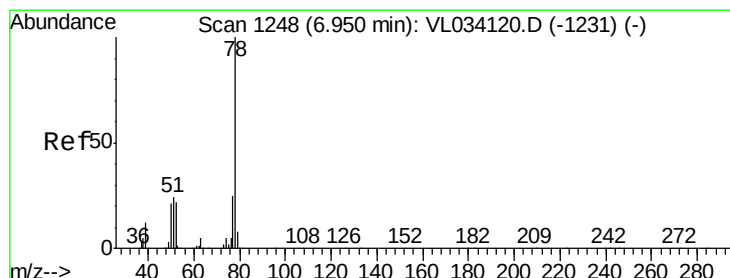
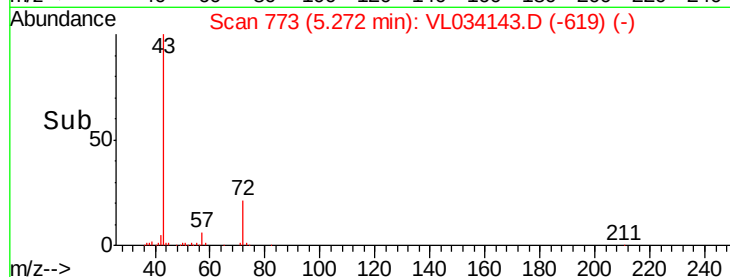
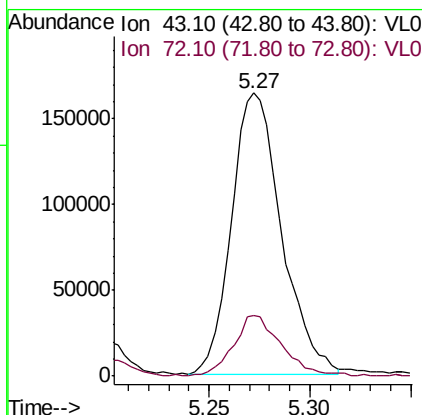
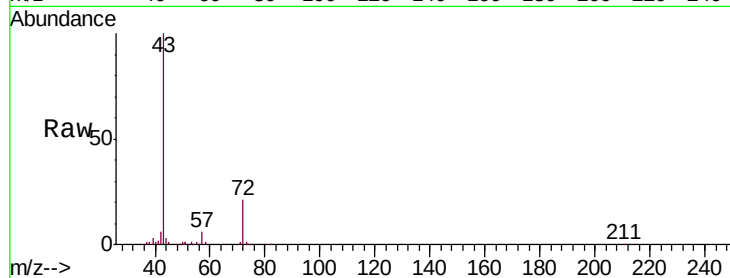




#34
 2-Butanone
 Concen: 1.831 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. -0.01 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

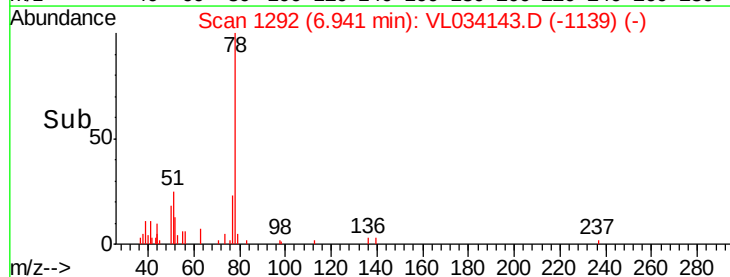
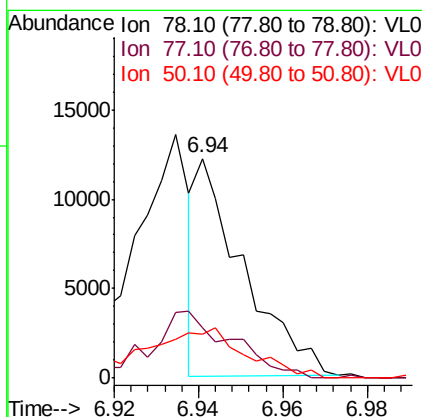
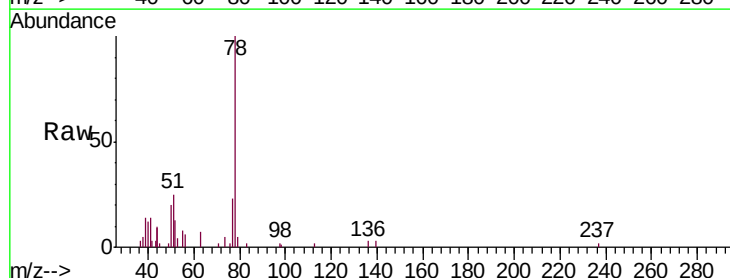
Instrument :
 MSVOA_L
 ClientSampled :
 SV5DL

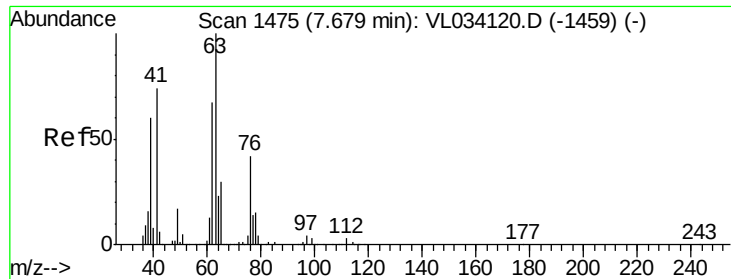
Tgt Ion: 43 Resp: 284147
 Ion Ratio Lower Upper
 43 100
 72 20.9 16.5 24.7



#36
 Benzene
 Concen: 0.051 ppbv
 RT: 6.94 min Scan# 1292
 Delta R.T. -0.01 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

Tgt Ion: 78 Resp: 9408
 Ion Ratio Lower Upper
 78 100
 77 23.4 20.3 30.5
 50 20.0 16.9 25.3





#39

1,2-Dichloropropane

Concen: 6.103 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.46 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

SV5DL

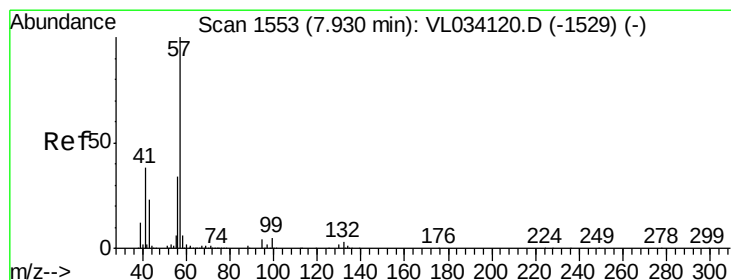
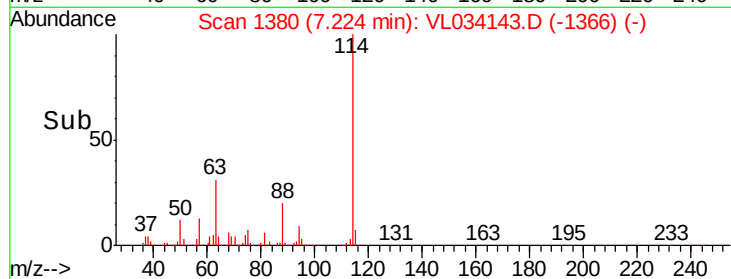
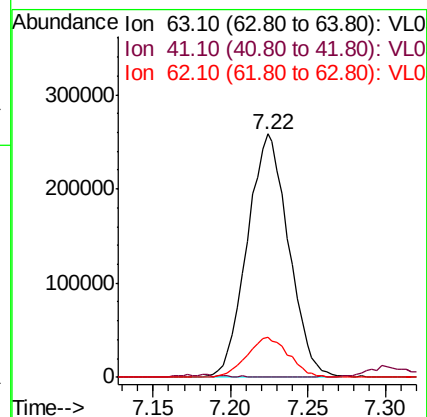
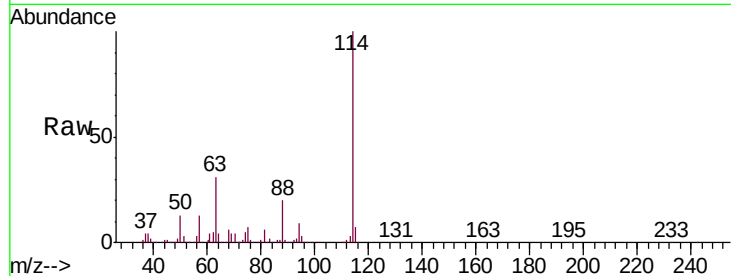
Tgt Ion: 63 Resp: 482004

Ion Ratio Lower Upper

63 100

41 0.0 59.3 88.9#

62 16.3 53.8 80.6#



#44

2,2,4-Trimethylpentane

Concen: 0.258 ppbv

RT: 7.92 min Scan# 1598

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

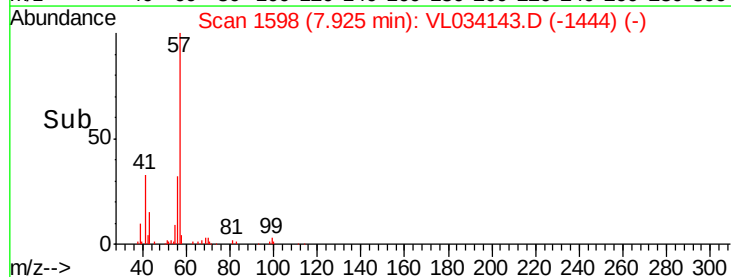
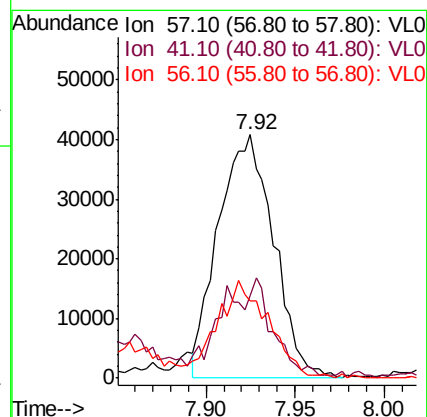
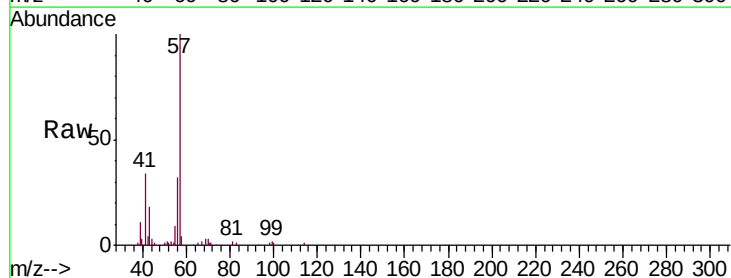
Tgt Ion: 57 Resp: 87863

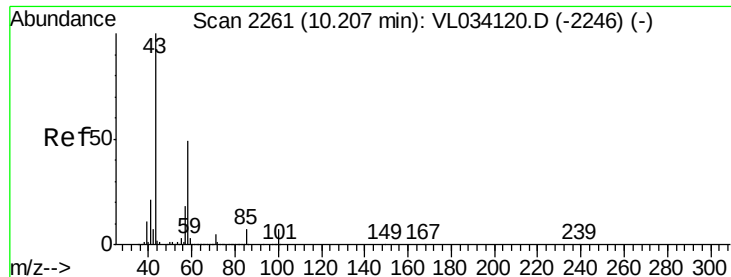
Ion Ratio Lower Upper

57 100

41 39.8 28.4 42.6

56 37.7 26.3 39.5





#51

2-Hexanone

Concen: 0.318 ppbv

RT: 10.21 min Scan# 2310

Delta R.T. 0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

SV5DL

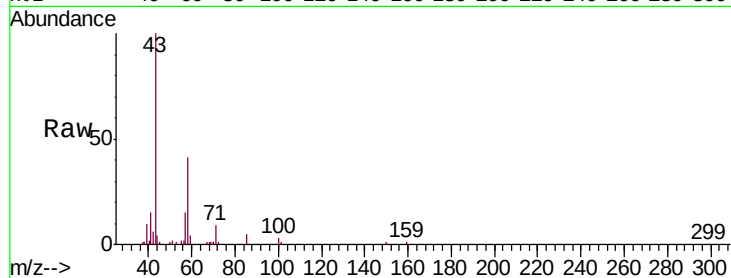
Tgt Ion: 43 Resp: 65145

Ion Ratio Lower Upper

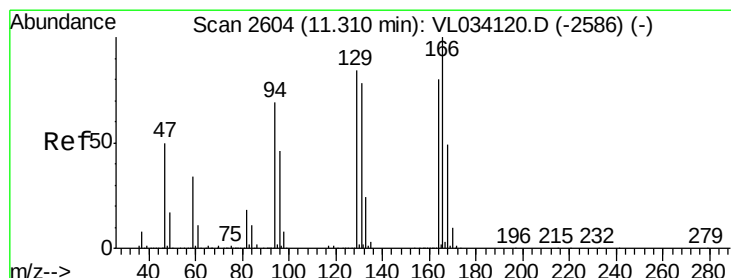
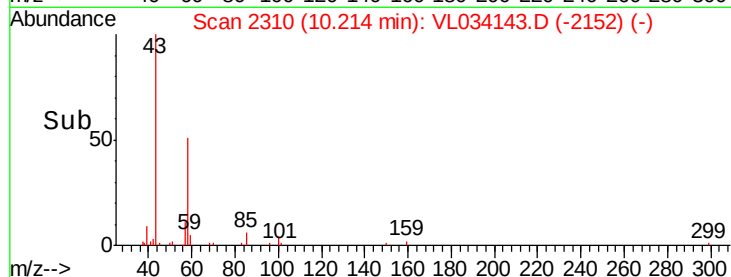
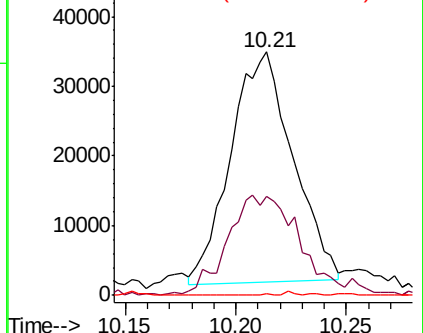
43 100

58 52.5 38.2 57.2

98 0.0 0.1 0.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.471 ppbv

RT: 11.30 min Scan# 2647

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Tgt Ion: 164 Resp: 30683

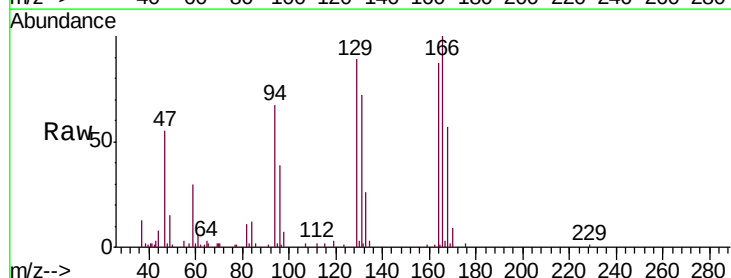
Ion Ratio Lower Upper

164 100

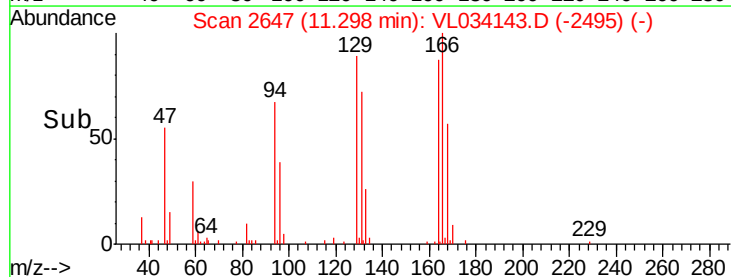
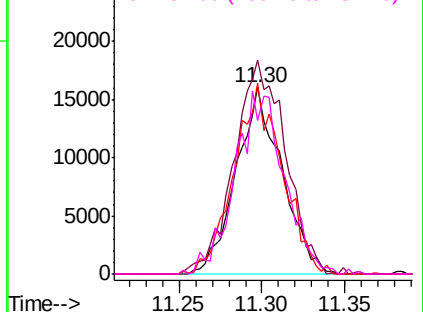
166 114.6 99.5 149.3

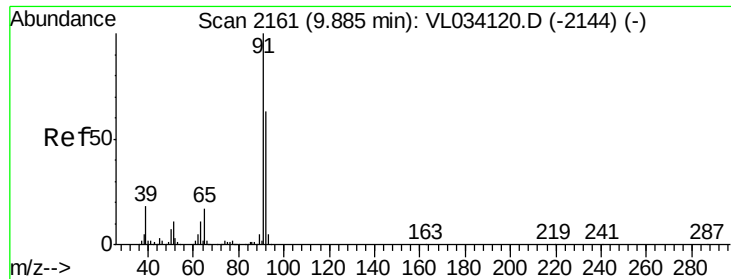
129 102.5 83.6 125.4

131 82.5 77.9 116.9



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: 0.376 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

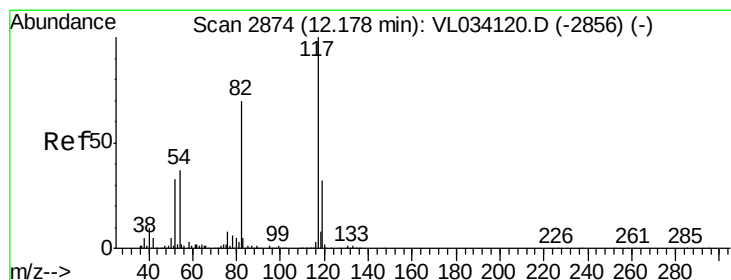
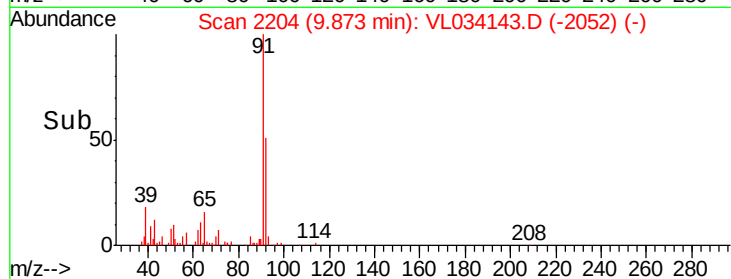
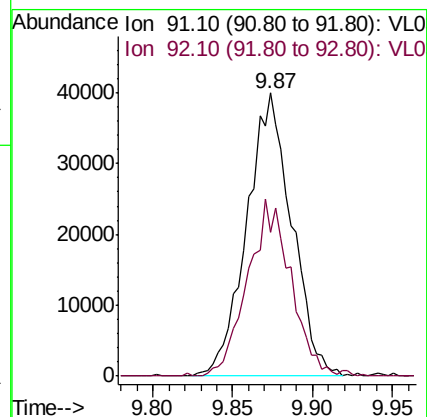
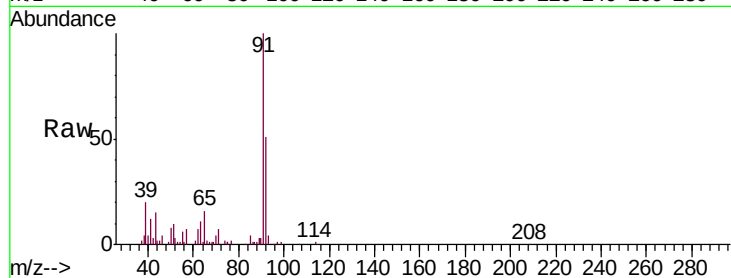
SV5DL

Tgt Ion: 91 Resp: 76775

Ion Ratio Lower Upper

91 100

92 60.0 49.3 73.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2916

Delta R.T. -0.02 min

Lab File: VL034143.D

Acq: 10 Sep 2019 15:15

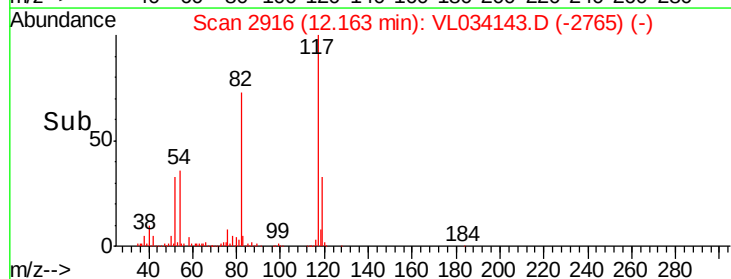
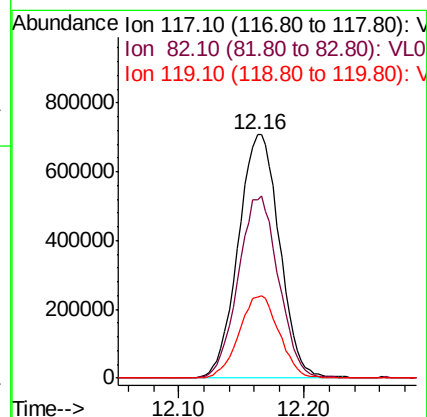
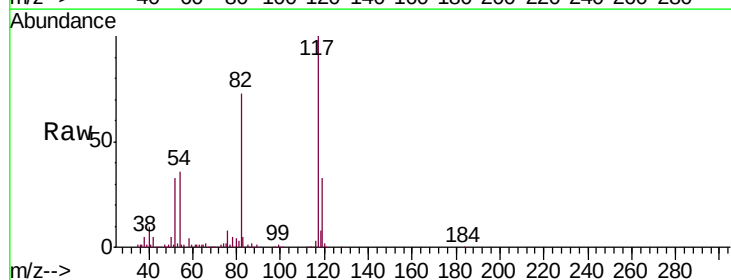
Tgt Ion: 117 Resp: 1611736

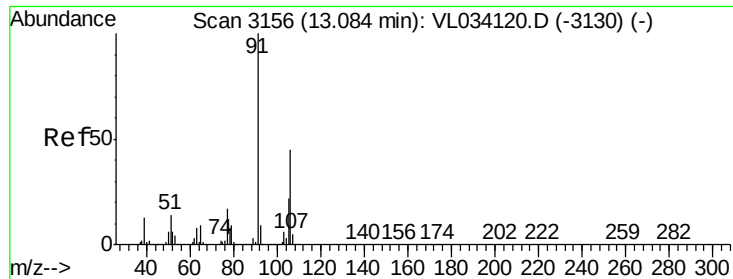
Ion Ratio Lower Upper

117 100

82 73.5 55.8 83.6

119 32.8 43.1 64.7#

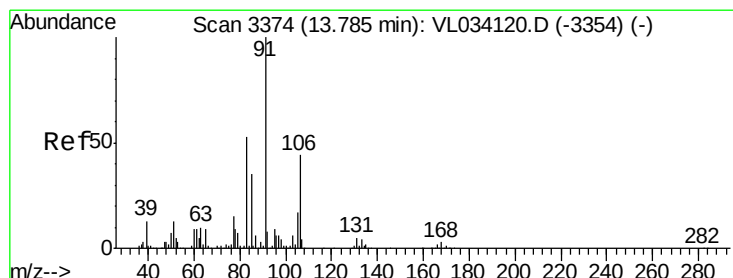
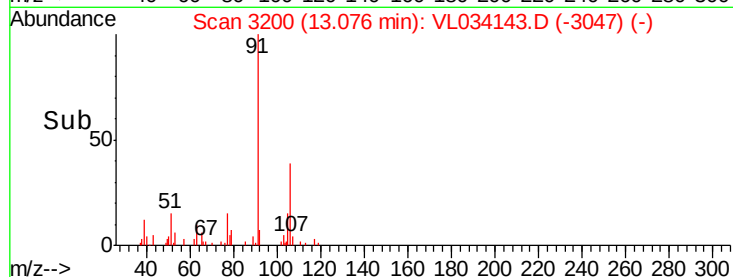
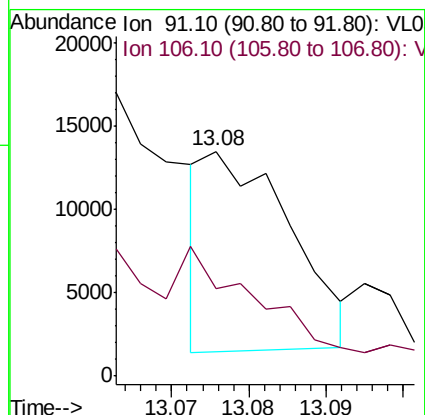
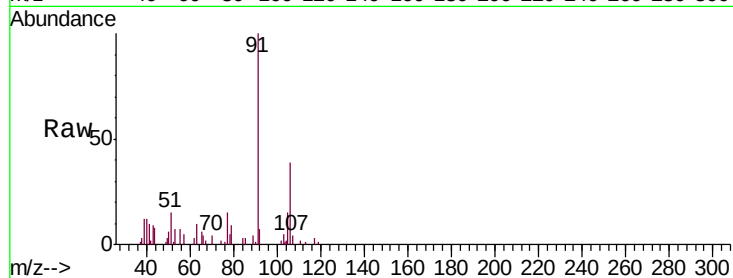




#59
m/p-Xylene
Concen: 0.042 ppbv
RT: 13.08 min Scan# 3200
Delta R.T. -0.01 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

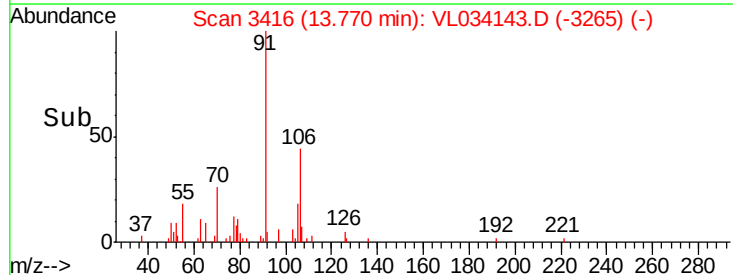
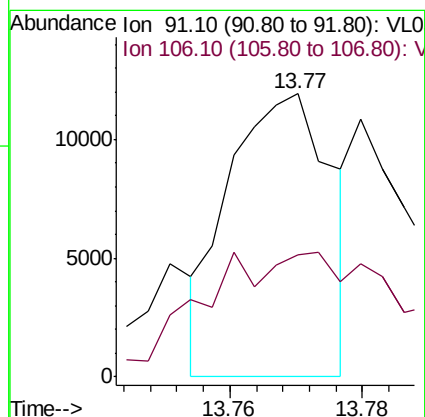
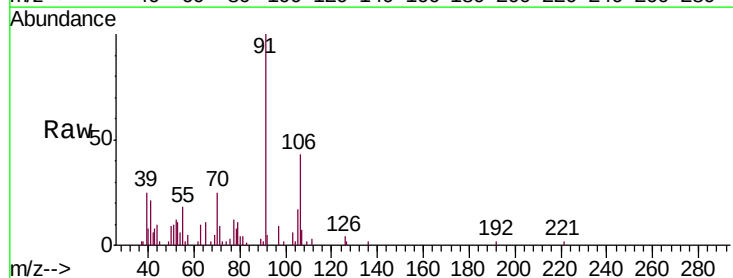
Instrument :
MSVOA_L
ClientSampleId :
SV5DL

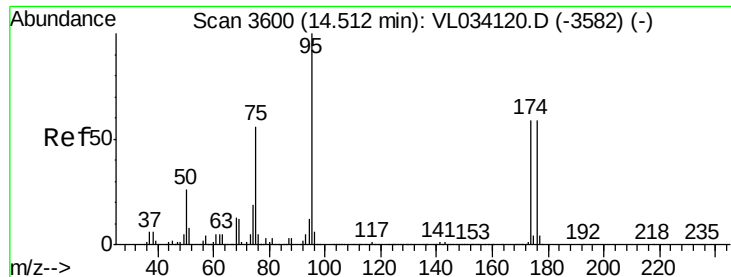
Tgt Ion: 91 Resp: 9153
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#



#60
o-Xylene
Concen: 0.060 ppbv
RT: 13.77 min Scan# 3416
Delta R.T. -0.02 min
Lab File: VL034143.D
Acq: 10 Sep 2019 15:15

Tgt Ion: 91 Resp: 12841
Ion Ratio Lower Upper
91 100
106 94.4 21.4 64.3#

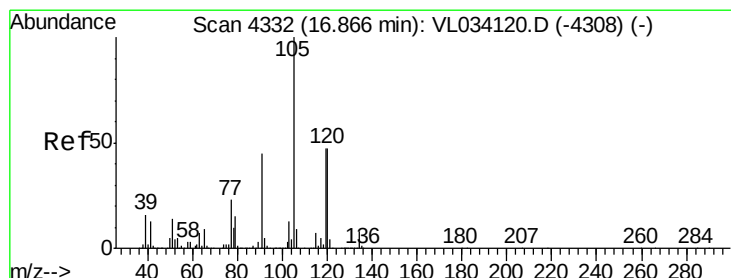
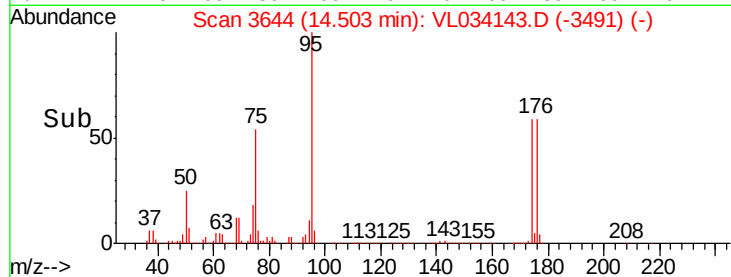
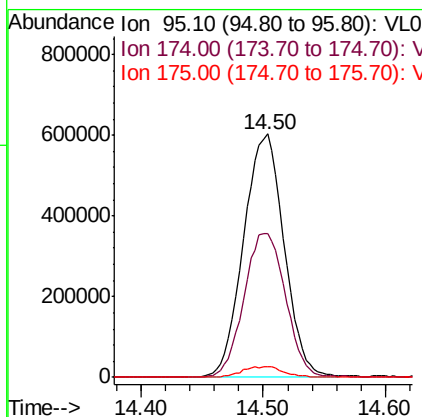
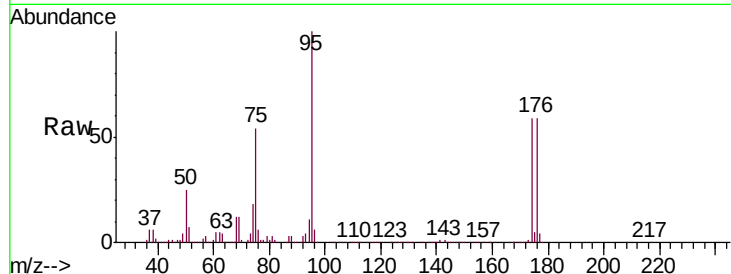




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.494 ppbv
 RT: 14.50 min Scan# 3644
 Delta R.T. -0.01 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5DL

Tgt Ion: 95 Resp: 1382707
 Ion Ratio Lower Upper
 95 100
 174 61.3 48.1 72.1
 175 4.6 3.5 5.3



#74
 1,2,4-Trimethylbenzene
 Concen: 0.081 ppbv
 RT: 16.85 min Scan# 4373
 Delta R.T. -0.02 min
 Lab File: VL034143.D
 Acq: 10 Sep 2019 15:15

Tgt Ion: 105 Resp: 19676
 Ion Ratio Lower Upper
 105 100
 120 43.6 37.7 56.5
 91 13.1 36.2 54.2#
 77 20.2 18.5 27.7

