

Data File : VL034153.D
Acq On : 10 Sep 2019 21:46
Operator : SY/AP
Sample : K4775-04DUP 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV4DLDUP

Quant Time: Sep 11 01:53:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 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	663723	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1279874	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	1265238	10.00	ppbv	-0.01

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.50 95 1078977 10.43 ppbv -0.01
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	5032	0.046	ppbv #	63
3) Chlorodifluoromethane	2.95	51	8732	0.118	ppbv #	71
4) Chloromethane	3.12	50	1725	0.037	ppbv	93
9) Propene	3.00	41	168278	4.065	ppbv	95
10) Heptane	8.17	43	19128	0.178	ppbv #	50
13) Ethanol	3.61	45	51184	6.312	ppbv	99
15) Acetone	3.84	43	4587234	57.346	ppbv #	87
16) 1,3-Butadiene	3.30	39	335127	8.273	ppbv #	19
17) tert-Butyl alcohol	4.31	59	45184	0.778	ppbv	97
19) Isopropyl Alcohol	3.98	45	134607	2.493	ppbv #	97
20) Methylene Chloride	4.36	84	5106	0.193	ppbv	87
23) Vinyl Acetate	5.09	43	12990	0.096	ppbv #	34
25) Ethyl Acetate	5.72	43	33952	0.193	ppbv #	79
26) Hexane	5.72	57	42193	0.540	ppbv #	33
27) Carbon Disulfide	4.57	76	4394	0.062	ppbv #	1
30) Cyclohexane	7.18	84	5798	0.103	ppbv #	1
32) 1,1,1-Trichloroethane	6.56	97	5268	0.053	ppbv	97
34) 2-Butanone	5.27	43	494616	4.020	ppbv	97
36) Benzene	6.94	78	22373	0.153	ppbv	91
39) 1,2-Dichloropropane	7.22	63	381582	6.095	ppbv #	24
44) 2,2,4-Trimethylpentane	7.92	57	21924	0.081	ppbv #	1
50) 4-Methyl-2-Pentanone	8.81	43	7978	0.042	ppbv #	39
51) 2-Hexanone	10.21	43	106499	0.657	ppbv	99
52) Tetrachloroethene	11.30	164	42663	0.827	ppbv	92
53) Toluene	9.88	91	152089	0.940	ppbv	95
58) Ethyl Benzene	13.04	91	51464	0.248	ppbv	89
59) m/p-Xylene	13.07	91	16049	0.095	ppbv #	32
60) o-Xylene	13.77	91	5941	0.035	ppbv #	33
72) 4-Ethyltoluene	15.92	105	7783	0.041	ppbv #	82
74) 1,2,4-Trimethylbenzene	16.85	105	22335	0.117	ppbv #	69

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

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Operator : SY/AP

Sample : K4775-04DUP 10X

Misc : 400ml/MSVOA L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV4DLDP

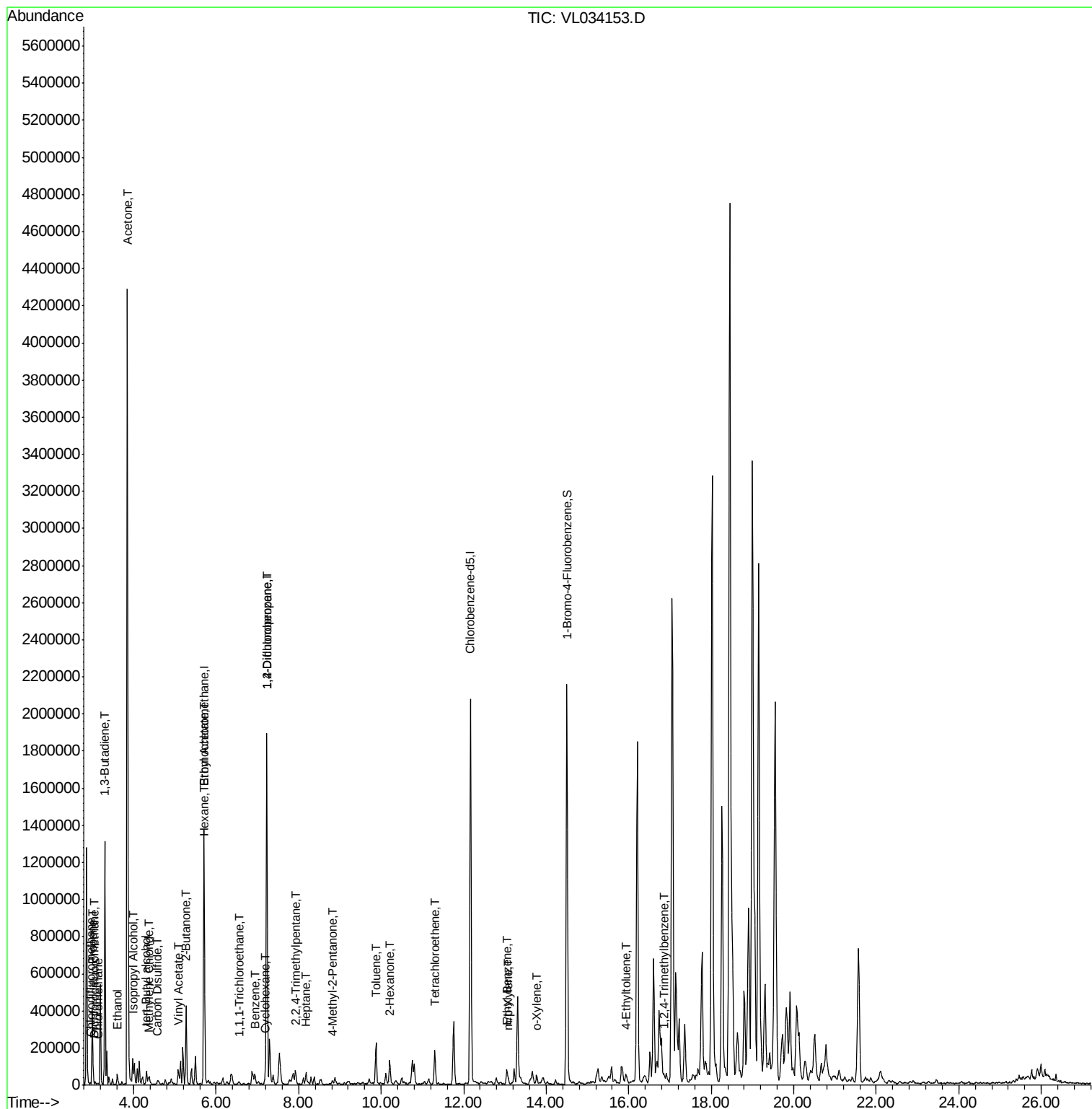
Quant Time: Sep 11 01:53:54 2019

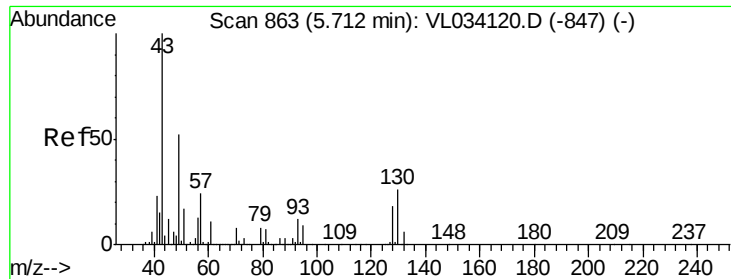
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL090519AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Sep 05 10:21:45 2019

QLast Update : Thu Sep 05 10:21:45 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

SV4DLDUP

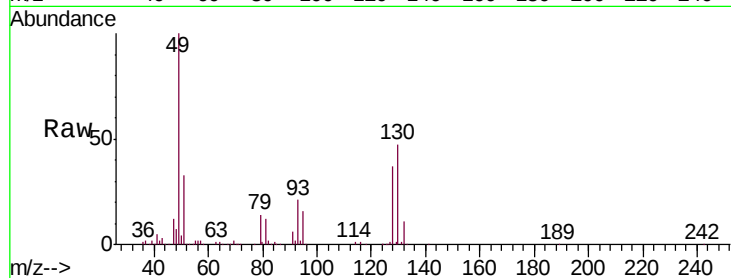
Tgt Ion: 49 Resp: 663723

Ion Ratio Lower Upper

49 100

128 38.6 18.4 55.0

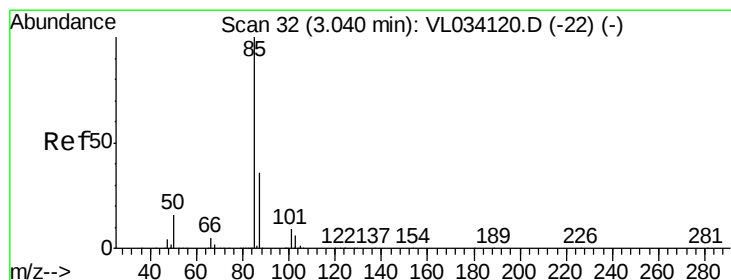
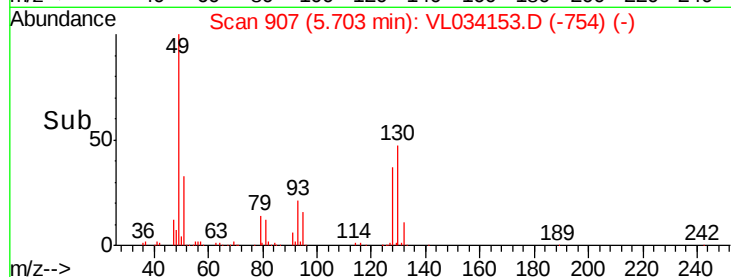
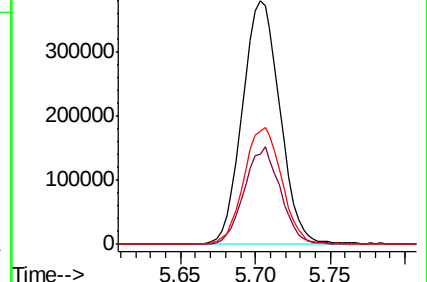
130 48.6 23.5 70.6



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: 0.046 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.00 min

Lab File: VL034153.D

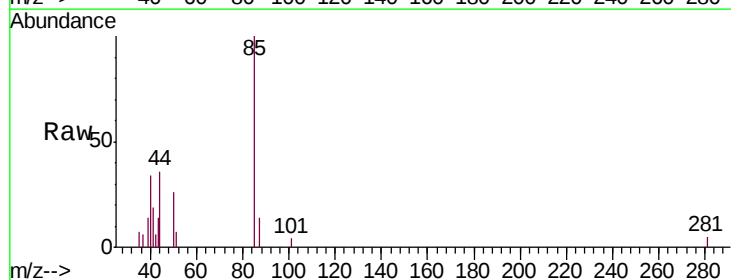
Acq: 10 Sep 2019 21:46

Tgt Ion: 85 Resp: 5032

Ion Ratio Lower Upper

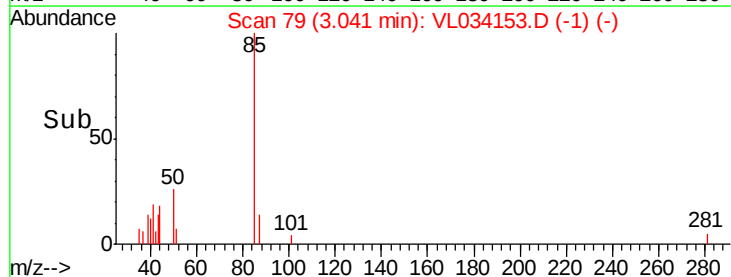
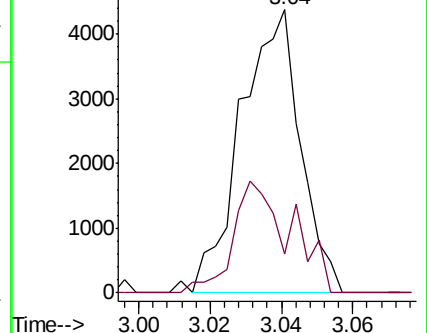
85 100

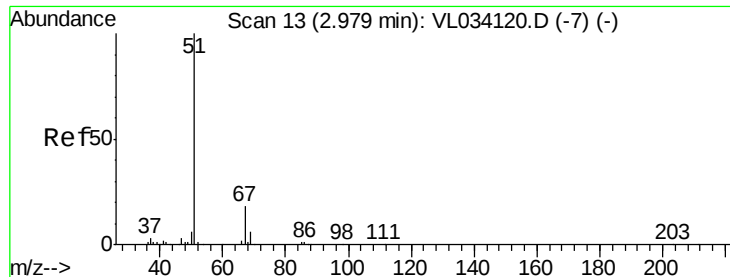
87 13.8 28.6 43.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

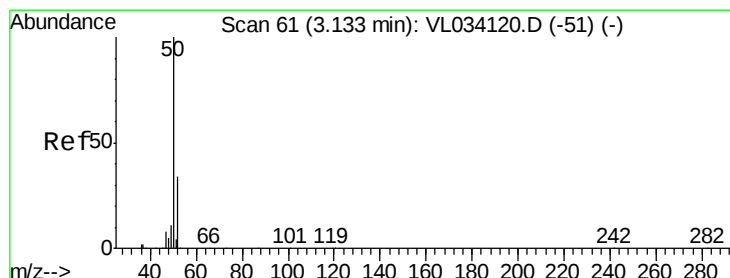
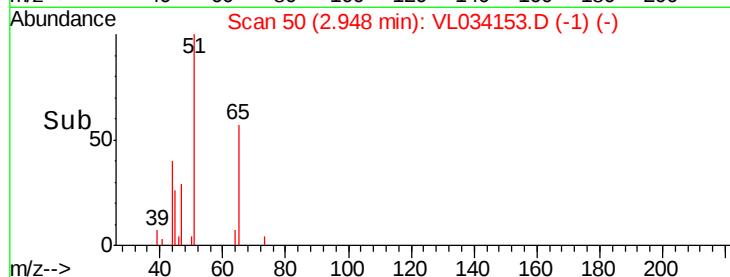
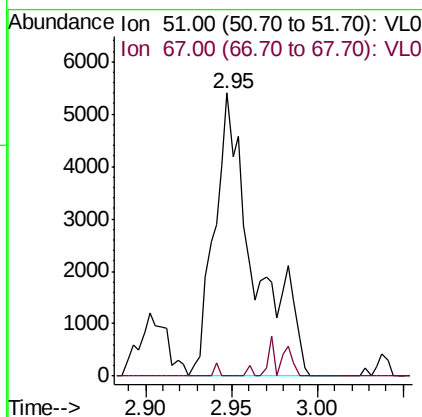
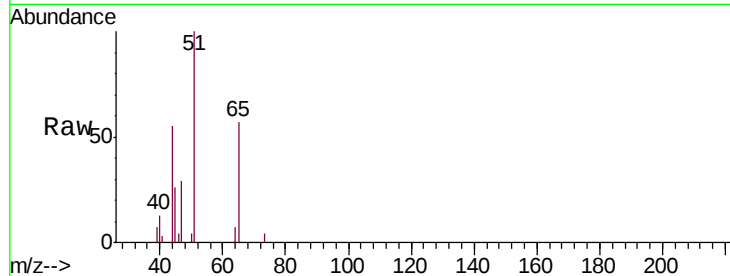




#3
 Chlorodifluoromethane
 Concen: 0.118 ppbv
 RT: 2.95 min Scan# 50
 Delta R.T. -0.03 min
 Lab File: VL034153.D
 Acq: 10 Sep 2019 21:46

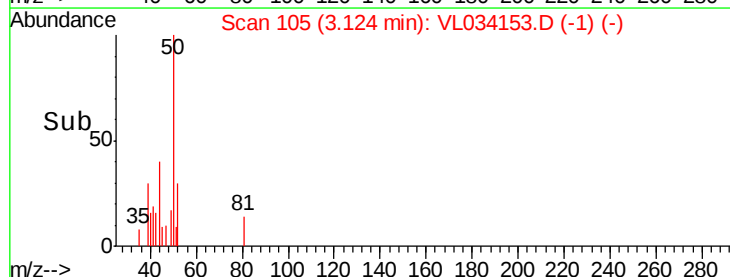
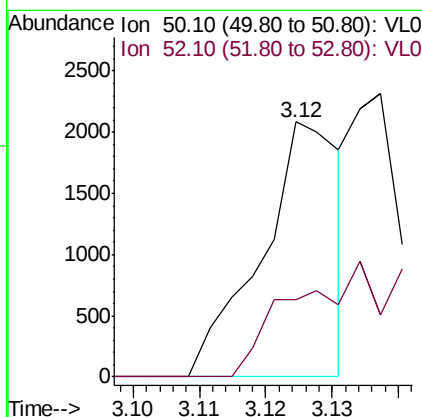
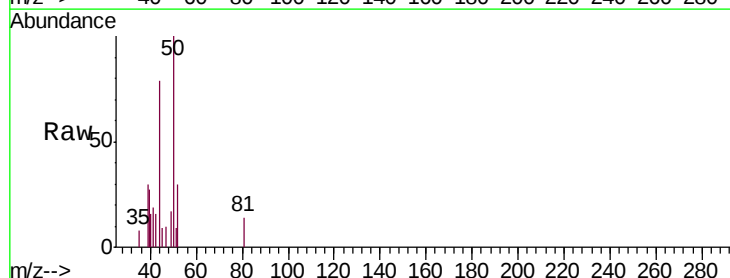
Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DLDUP

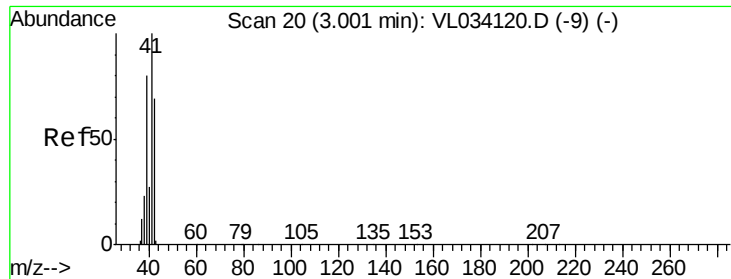
Tgt Ion: 51 Resp: 8732
 Ion Ratio Lower Upper
 51 100
 67 5.2 14.2 21.4#



#4
 Chloromethane
 Concen: 0.037 ppbv
 RT: 3.12 min Scan# 105
 Delta R.T. -0.01 min
 Lab File: VL034153.D
 Acq: 10 Sep 2019 21:46

Tgt Ion: 50 Resp: 1725
 Ion Ratio Lower Upper
 50 100
 52 30.4 27.4 41.2





#9

Propene

Concen: 4.065 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

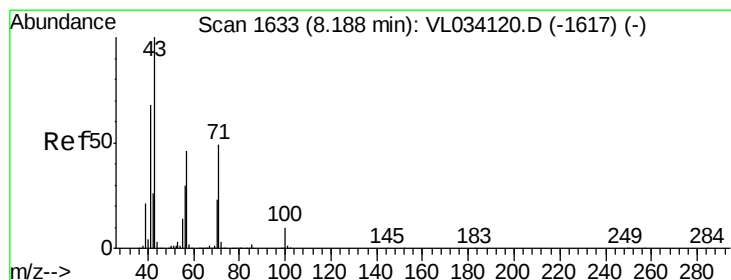
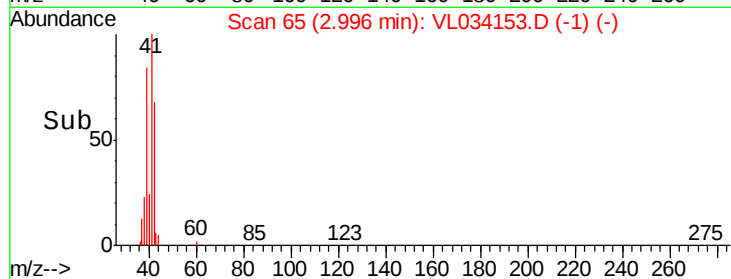
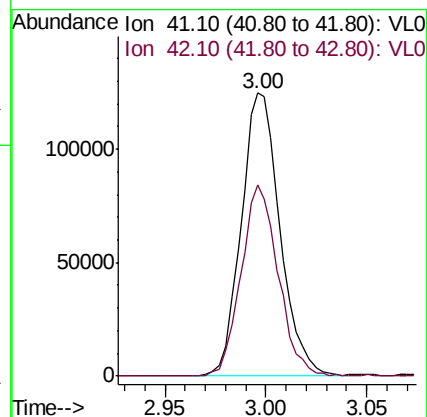
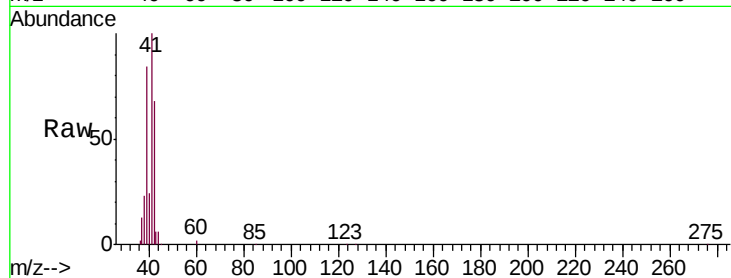
SV4DLDUP

Tgt Ion: 41 Resp: 168278

Ion Ratio Lower Upper

41 100

42 64.5 54.6 81.8



#10

Heptane

Concen: 0.178 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. -0.02 min

Lab File: VL034153.D

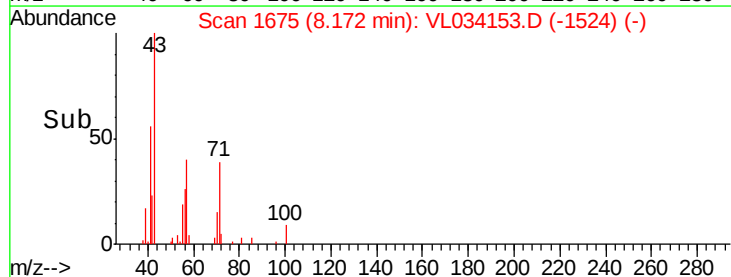
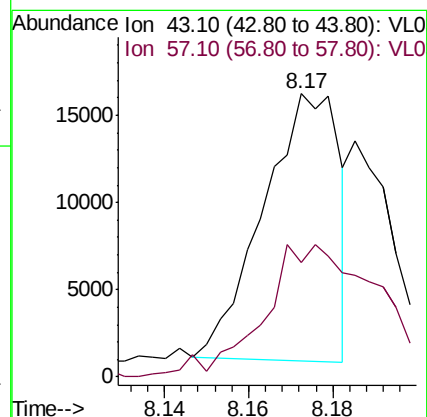
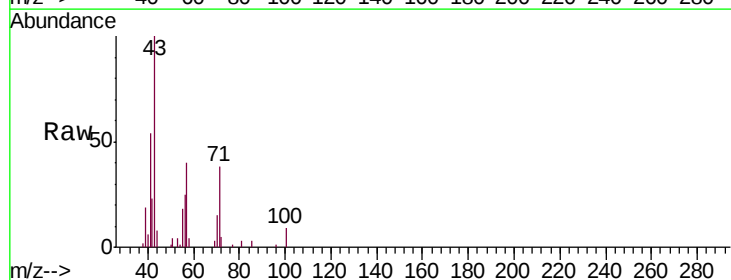
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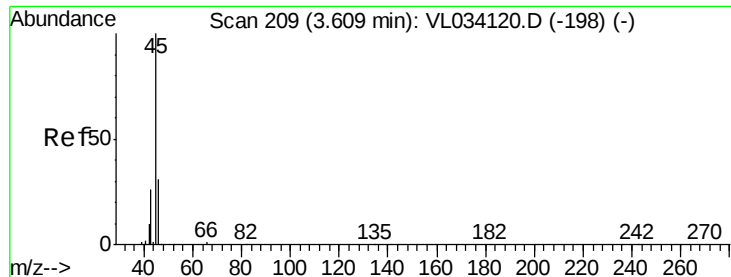
Tgt Ion: 43 Resp: 19128

Ion Ratio Lower Upper

43 100

57 81.0 38.1 57.1#





#13

Ethanol

Concen: 6.312 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

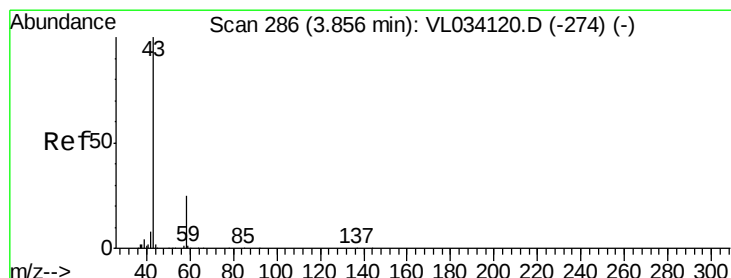
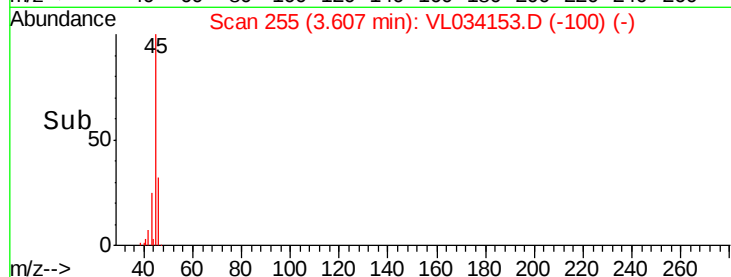
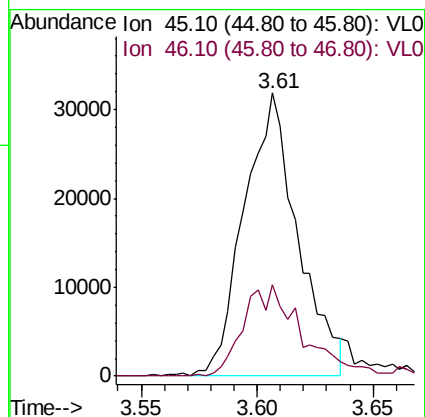
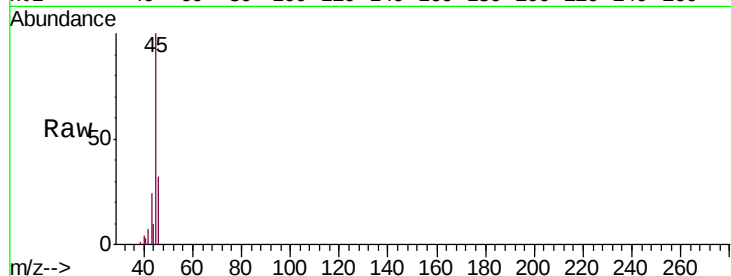
SV4DLDUP

Tgt Ion: 45 Resp: 51184

Ion Ratio Lower Upper

45 100

46 36.6 15.0 60.0



#15

Acetone

Concen: 57.346 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034153.D

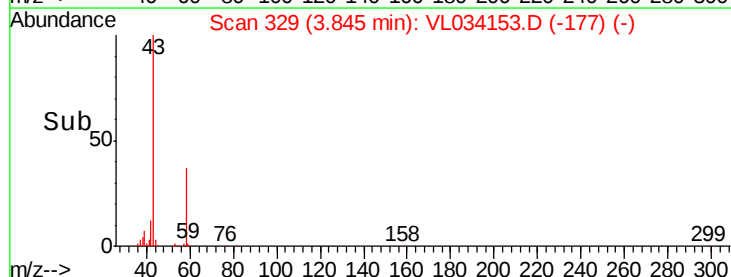
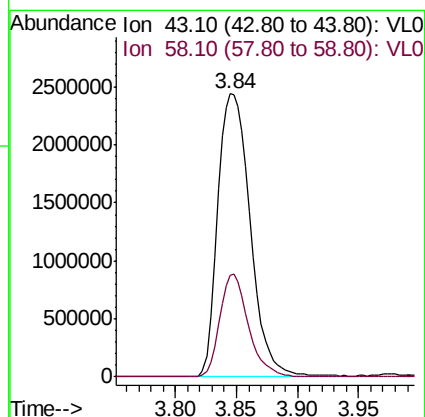
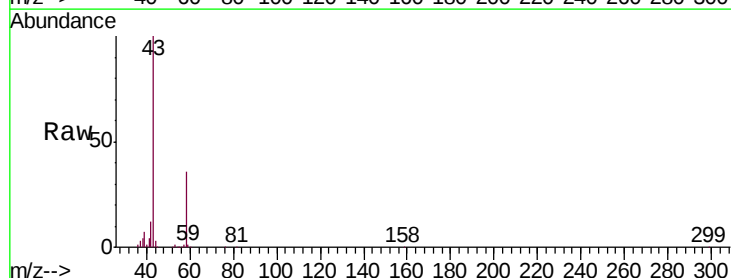
Acq: 10 Sep 2019 21:46

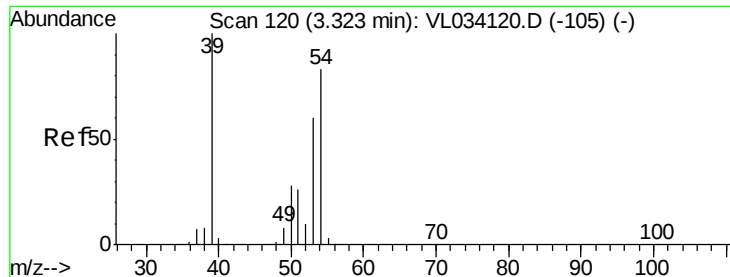
Tgt Ion: 43 Resp: 4587234

Ion Ratio Lower Upper

43 100

58 32.2 20.6 30.8#

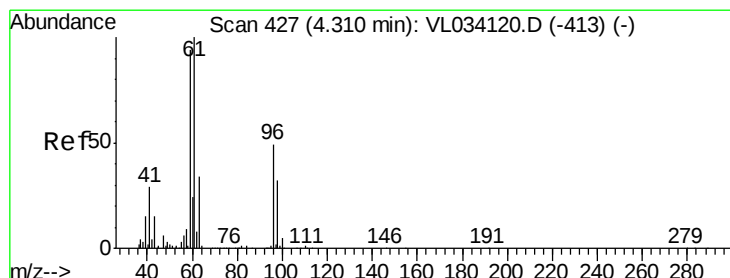
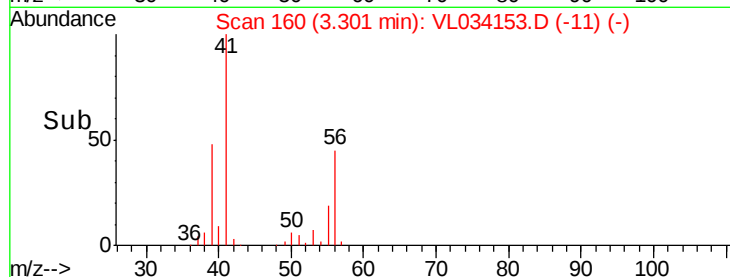
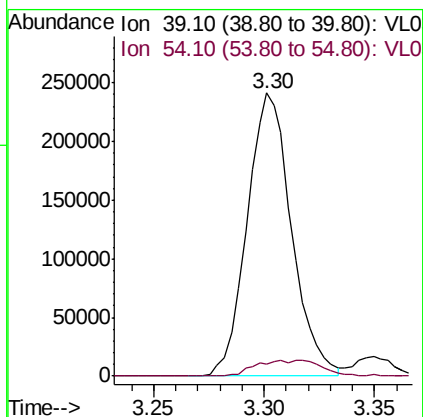
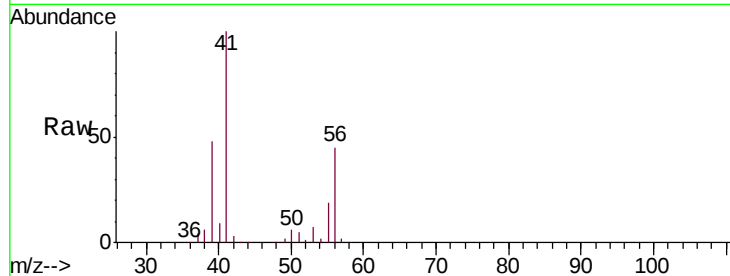




#16
 1,3-Butadiene
 Concen: 8.273 ppbv
 RT: 3.30 min Scan# 160
 Delta R.T. -0.02 min
 Lab File: VL034153.D
 Acq: 10 Sep 2019 21:46

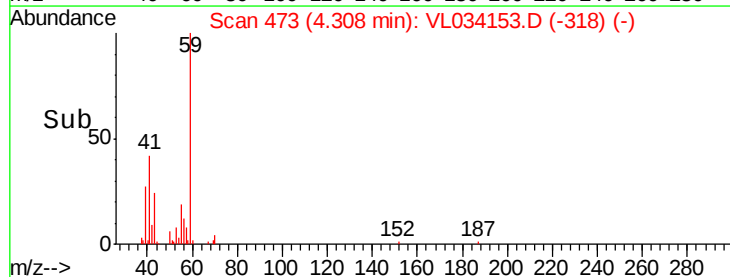
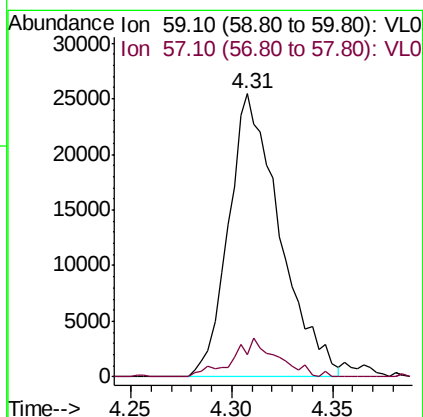
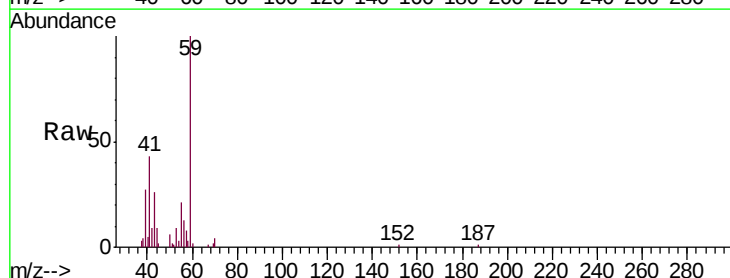
Instrument :
 MSVOA_L
 ClientSampleID :
 SV4DLDUP

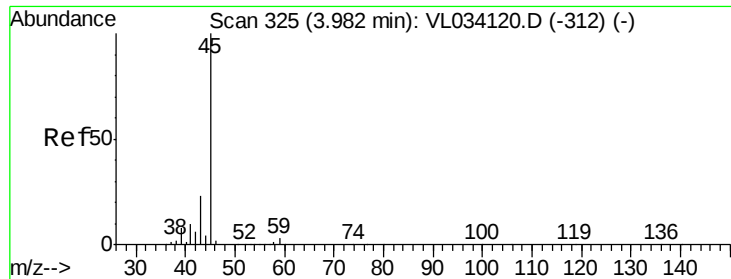
Tgt Ion: 39 Resp: 335127
 Ion Ratio Lower Upper
 39 100
 54 8.6 63.5 95.3#



#17
 tert-Butyl alcohol
 Concen: 0.778 ppbv
 RT: 4.31 min Scan# 473
 Delta R.T. -0.00 min
 Lab File: VL034153.D
 Acq: 10 Sep 2019 21:46

Tgt Ion: 59 Resp: 45184
 Ion Ratio Lower Upper
 59 100
 57 12.0 8.6 12.8





#19

Isopropyl Alcohol

Concen: 2.493 ppbv

RT: 3.98 min Scan# 370

Delta R.T. -0.01 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

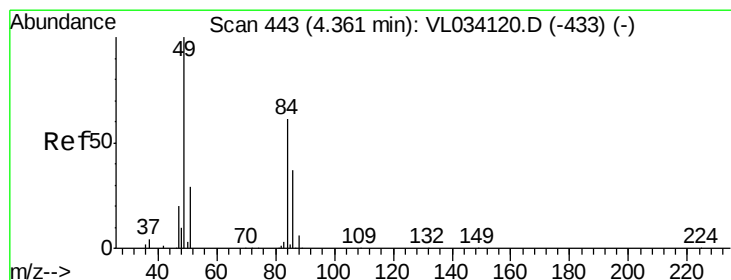
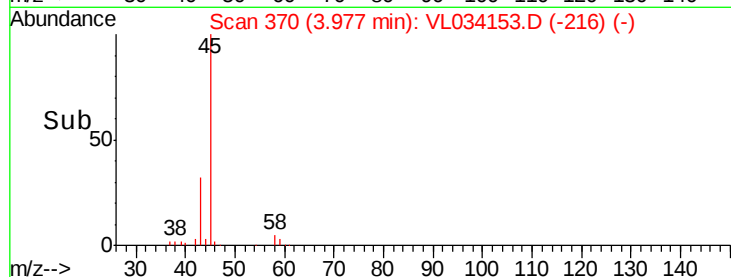
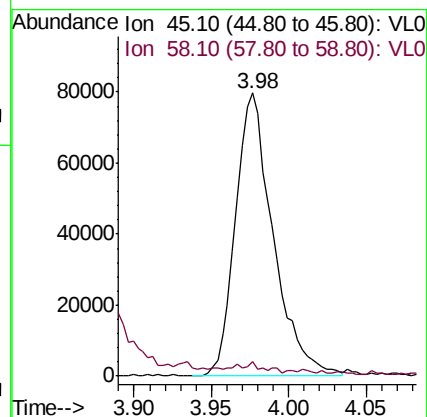
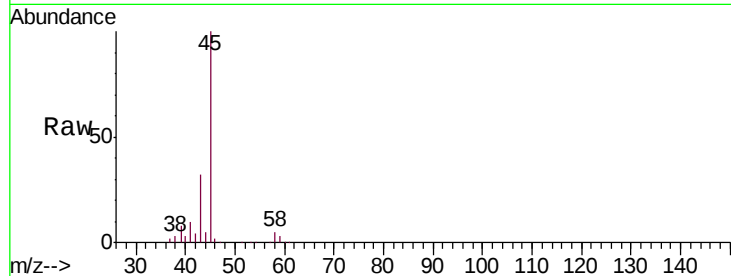
SV4DLDUP

Tgt Ion: 45 Resp: 134607

Ion Ratio Lower Upper

45 100

58 0.0 1.0 1.6#



#20

Methylene Chloride

Concen: 0.193 ppbv

RT: 4.36 min Scan# 489

Delta R.T. -0.00 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Tgt Ion: 84 Resp: 5106

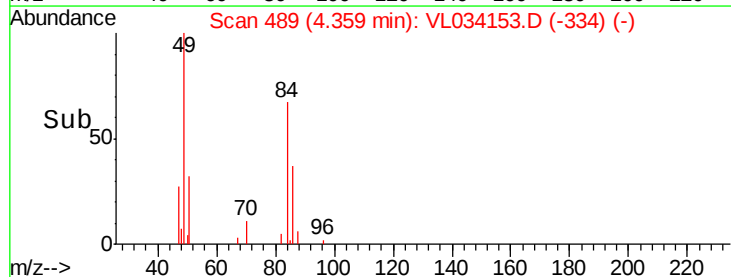
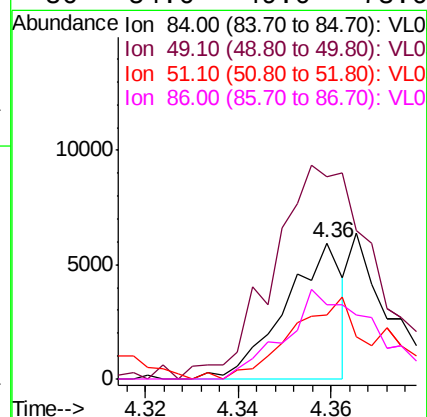
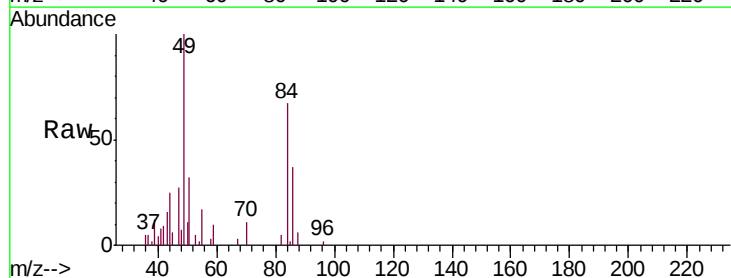
Ion Ratio Lower Upper

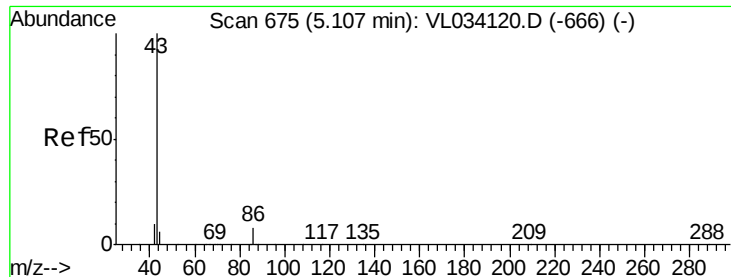
84 100

49 139.5 131.0 196.6

51 47.3 38.1 57.1

86 54.6 49.0 73.6





#23

Vinyl Acetate

Concen: 0.096 ppbv

RT: 5.09 min Scan# 716

Delta R.T. -0.02 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

SV4DLDUP

Tgt Ion: 43 Resp: 12990

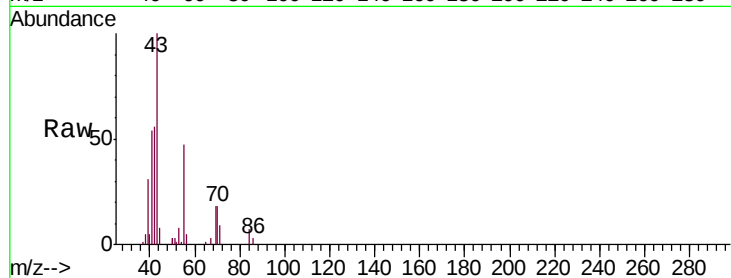
Ion Ratio Lower Upper

43 100

86 2.2 5.5 8.3#

42 57.7 8.2 12.4#

44 0.3 4.3 6.5#

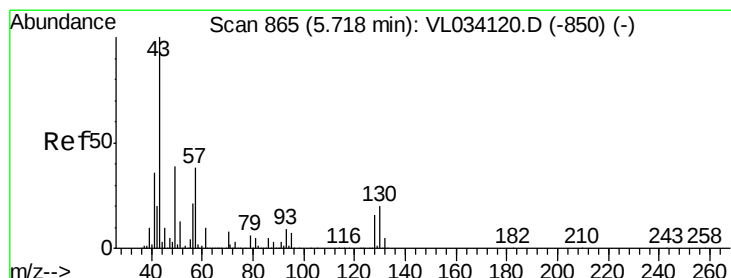
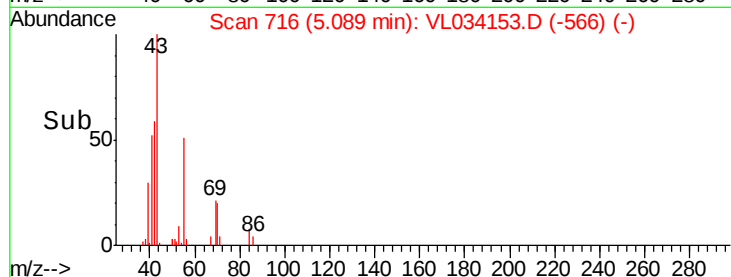
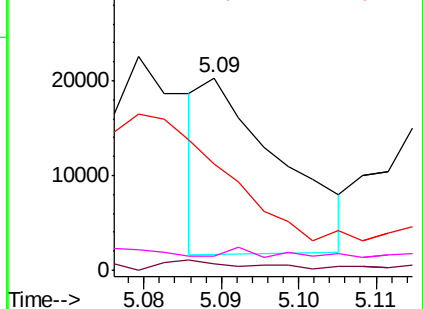


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.193 ppbv

RT: 5.72 min Scan# 911

Delta R.T. -0.00 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Tgt Ion: 43 Resp: 33952

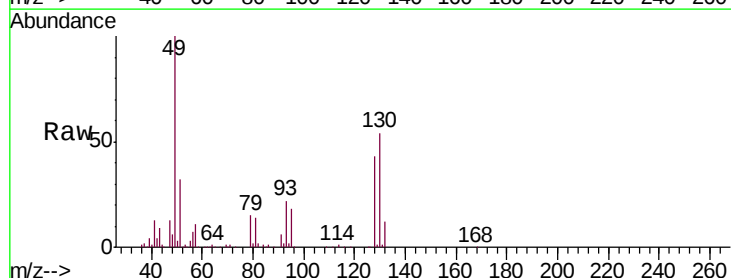
Ion Ratio Lower Upper

43 100

45 0.0 8.2 12.4#

61 0.5 7.4 11.2#

70 4.2 5.6 8.4#

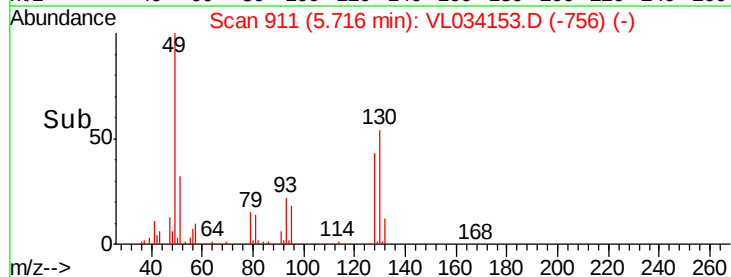
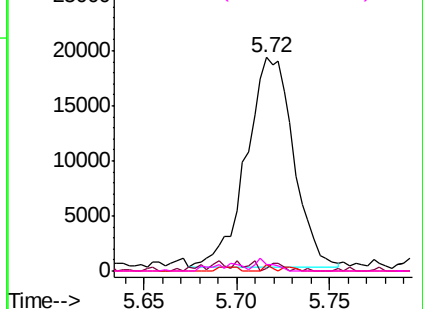


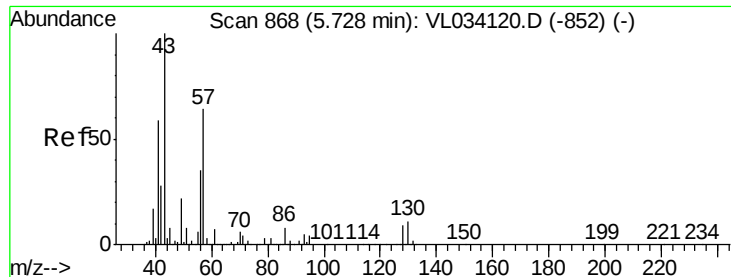
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

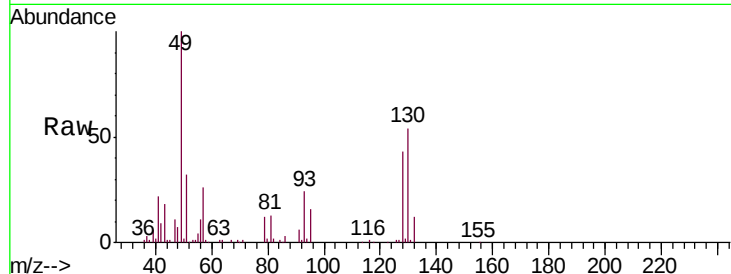




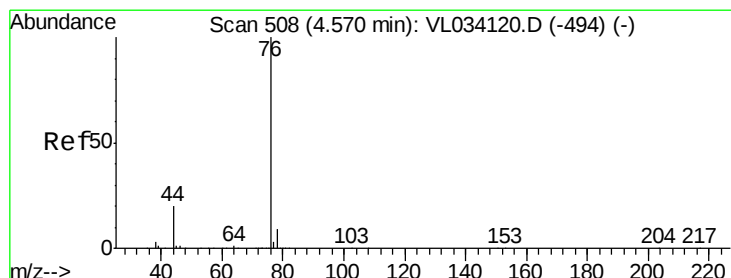
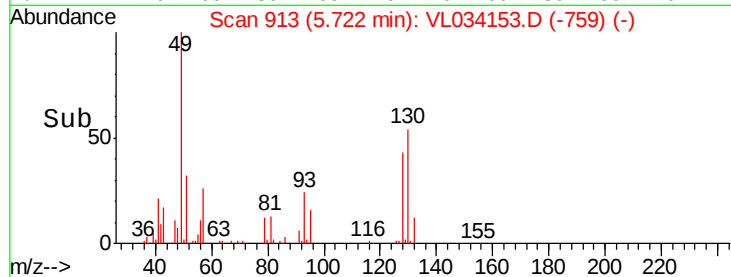
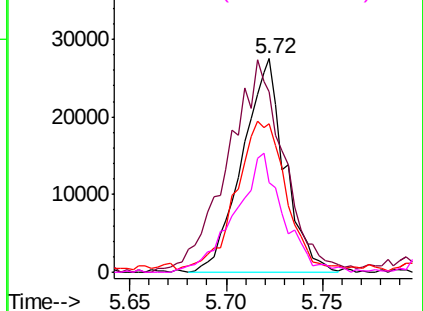
#26
Hexane
Concen: 0.540 ppbv
RT: 5.72 min Scan# 913
Delta R.T. -0.01 min
Lab File: VL034153.D
Acq: 10 Sep 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
SV4DLDUP

Tgt Ion: 57 Resp: 42193
Ion Ratio Lower Upper
57 100
41 132.1 76.6 115.0#
43 81.8 189.2 283.8#
56 63.6 43.0 64.4

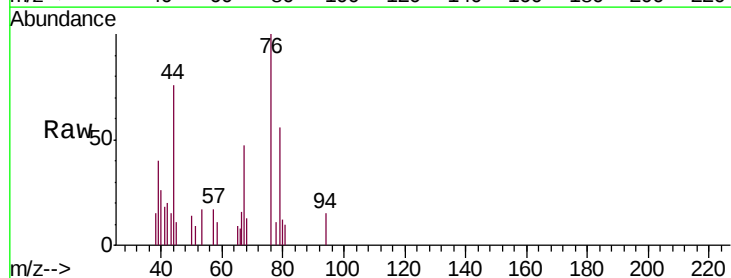


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

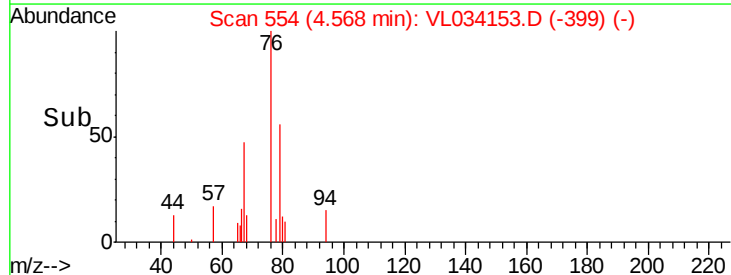
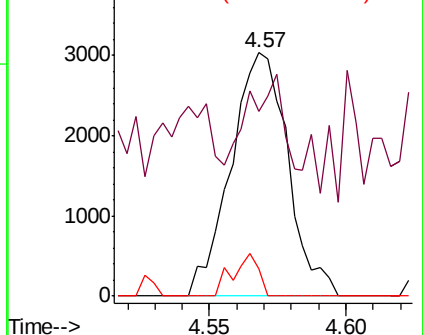


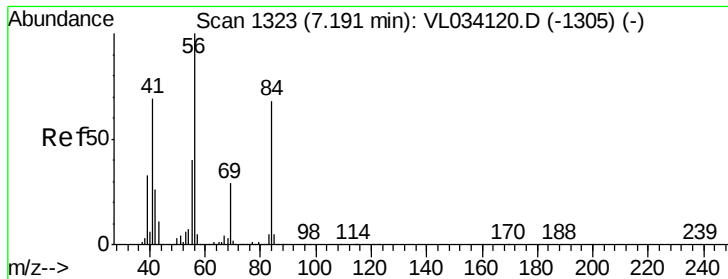
#27
Carbon Disulfide
Concen: 0.062 ppbv
RT: 4.57 min Scan# 554
Delta R.T. -0.00 min
Lab File: VL034153.D
Acq: 10 Sep 2019 21:46

Tgt Ion: 76 Resp: 4394
Ion Ratio Lower Upper
76 100
44 90.3 17.6 26.4#
78 7.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

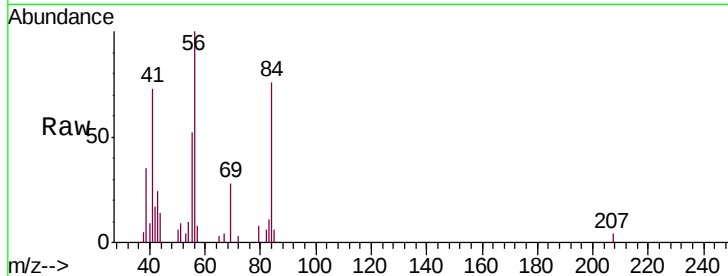




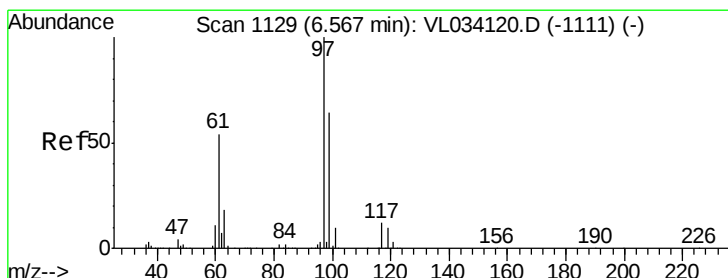
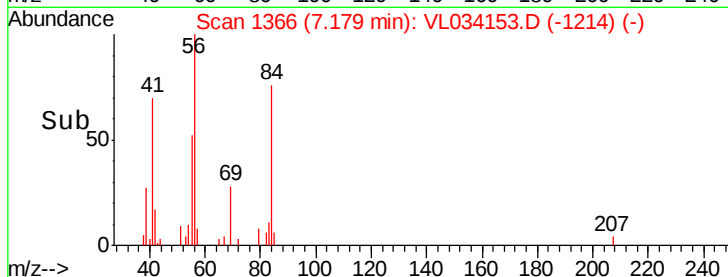
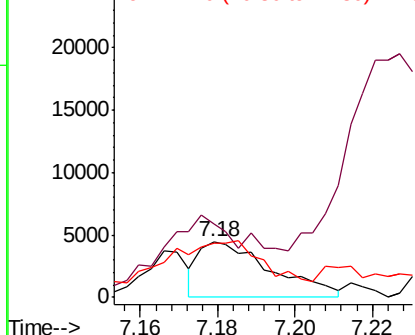
#30
Cyclohexane
Concen: 0.103 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL034153.D
Acq: 10 Sep 2019 21:46

Instrument :
MSVOA_L
ClientSampleId :
SV4DLDUP

Tgt Ion: 84 Resp: 5798
Ion Ratio Lower Upper
84 100
56 0.0 122.6 183.8#
41 254.8 79.1 118.7#

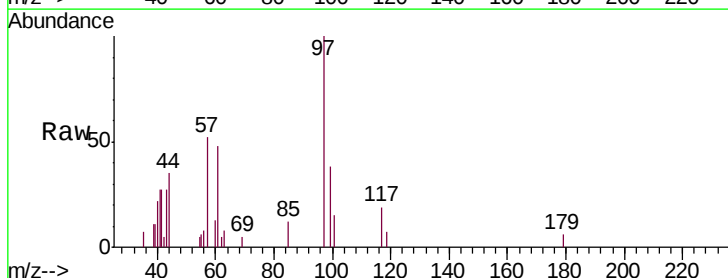


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

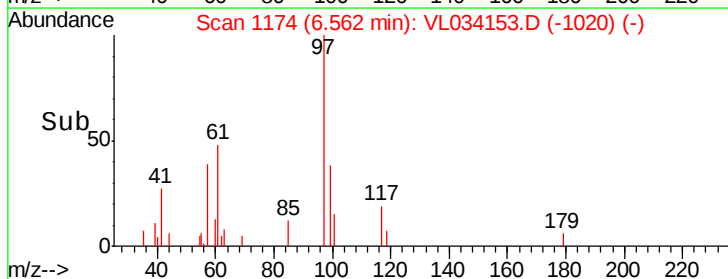
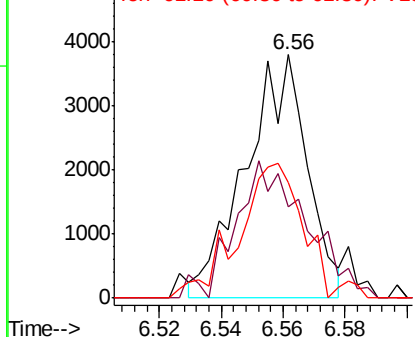


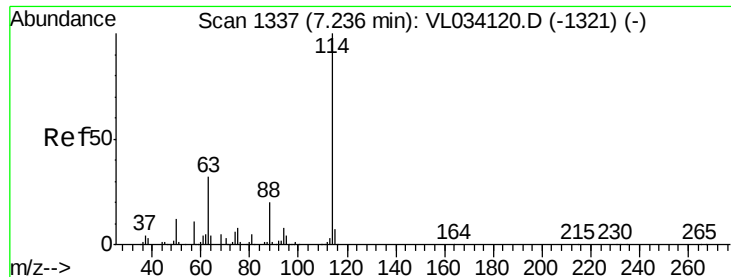
#32
1,1,1-Trichloroethane
Concen: 0.053 ppbv
RT: 6.56 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VL034153.D
Acq: 10 Sep 2019 21:46

Tgt Ion: 97 Resp: 5268
Ion Ratio Lower Upper
97 100
99 65.3 51.7 77.5
61 59.3 44.0 66.0



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

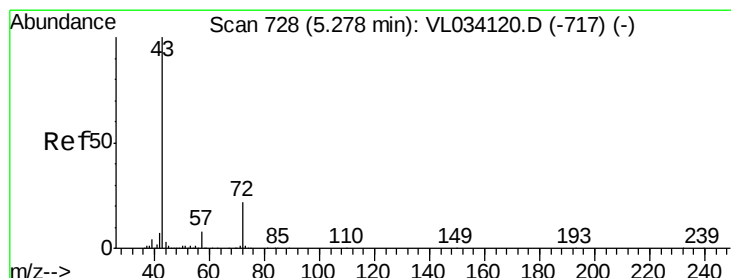
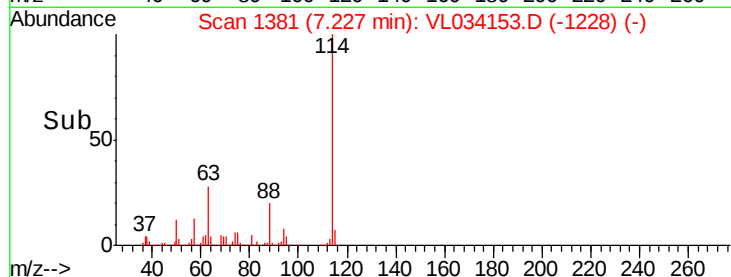
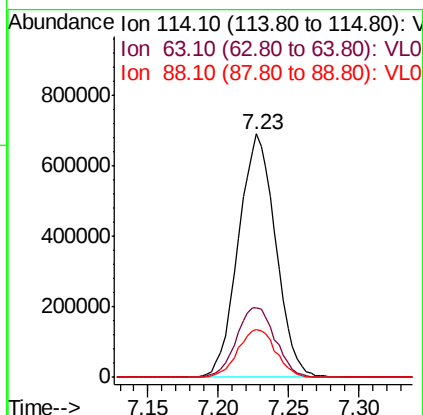
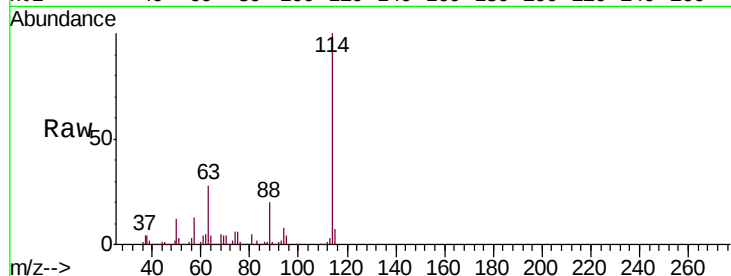




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1381
 Delta R.T. -0.01 min
 Lab File: VL034153.D
 Acq: 10 Sep 2019 21:46

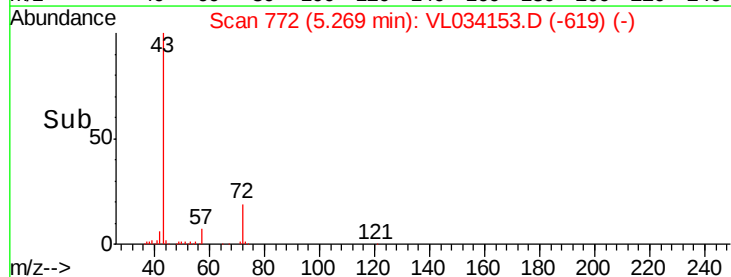
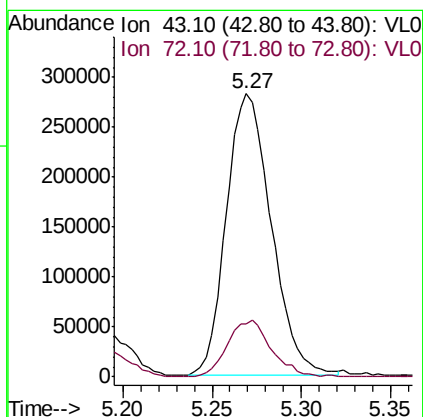
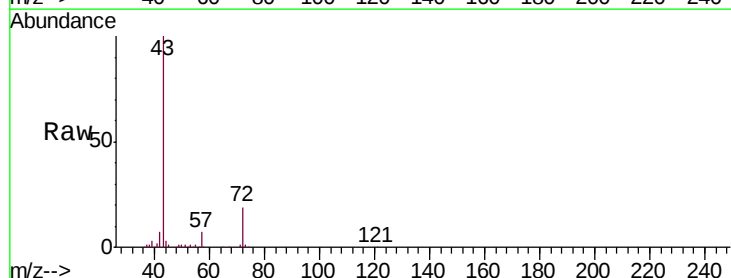
Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DLDUP

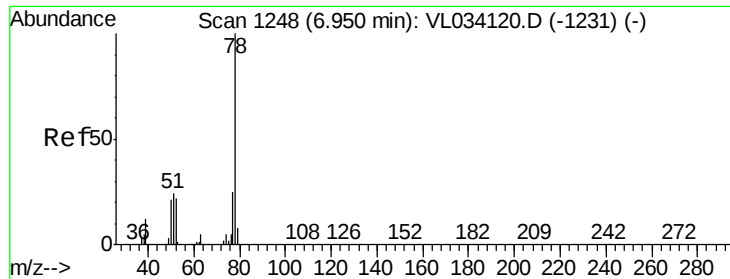
Tgt Ion: 114 Resp: 1279874
 Ion Ratio Lower Upper
 114 100
 63 29.9 25.5 38.3
 88 20.2 16.8 25.2



#34
 2-Butanone
 Concen: 4.020 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. -0.01 min
 Lab File: VL034153.D
 Acq: 10 Sep 2019 21:46

Tgt Ion: 43 Resp: 494616
 Ion Ratio Lower Upper
 43 100
 72 19.3 16.5 24.7





#36

Benzene

Concen: 0.153 ppbv

RT: 6.94 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

SV4DLDUP

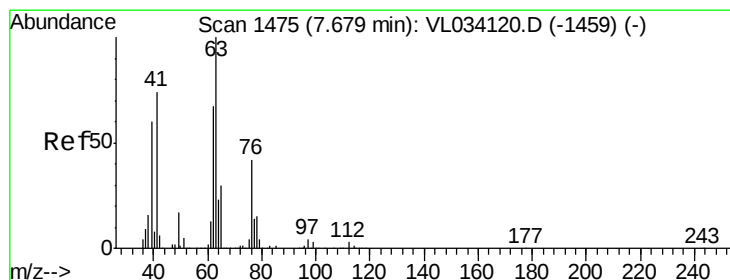
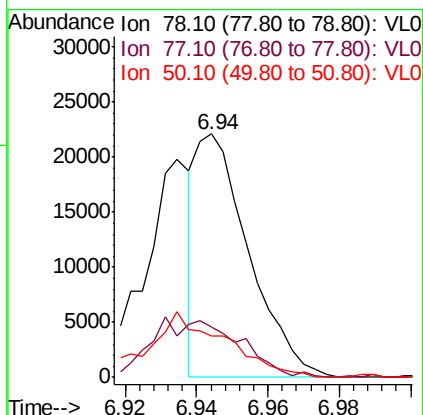
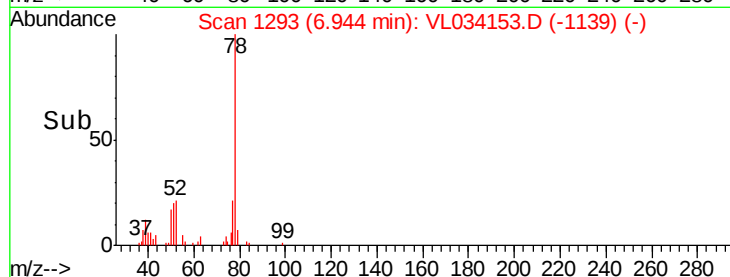
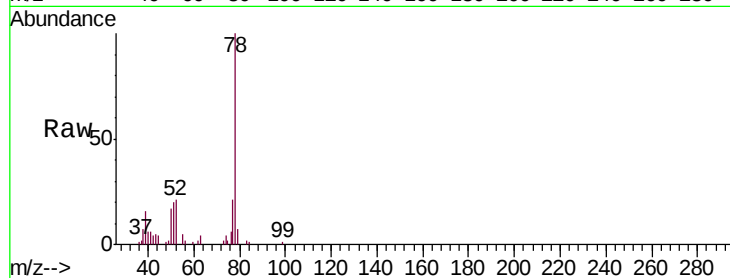
Tgt Ion: 78 Resp: 22373

Ion Ratio Lower Upper

78 100

77 20.7 20.3 30.5

50 17.1 16.9 25.3



#39

1,2-Dichloropropane

Concen: 6.095 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.46 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

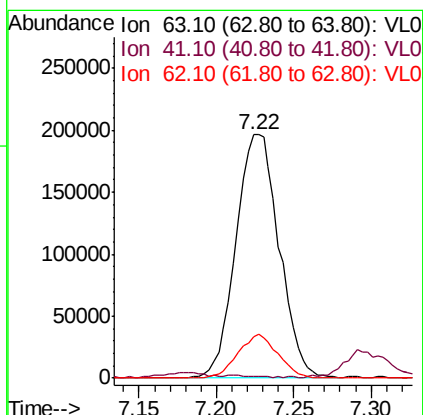
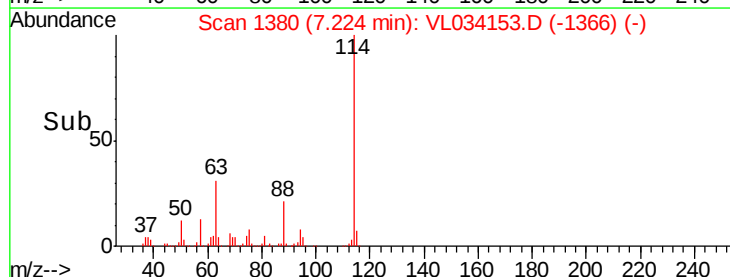
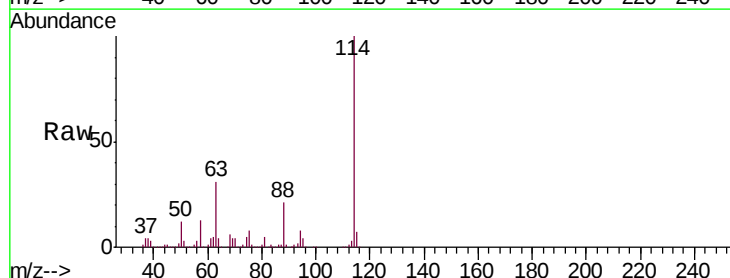
Tgt Ion: 63 Resp: 381582

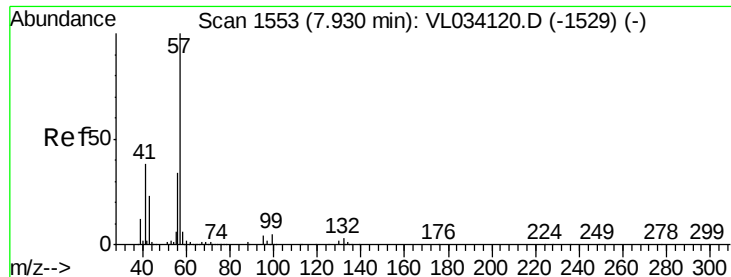
Ion Ratio Lower Upper

63 100

41 0.0 59.3 88.9#

62 17.1 53.8 80.6#





#44

2,2,4-Trimethylpentane

Concen: 0.081 ppbv

RT: 7.92 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

SV4DLDUP

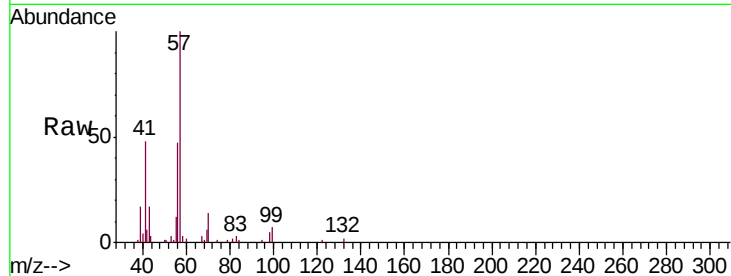
Tgt Ion: 57 Resp: 21924

Ion Ratio Lower Upper

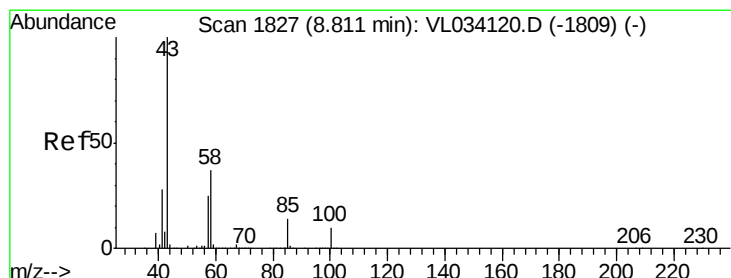
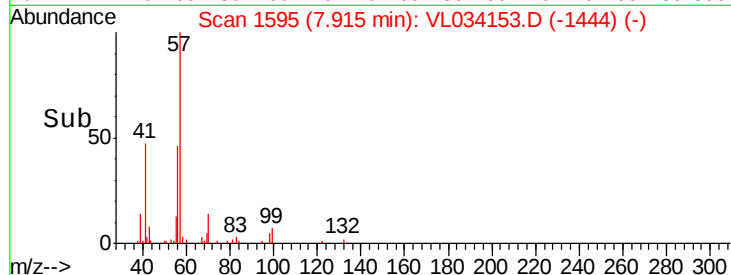
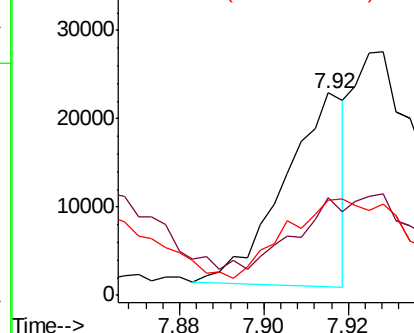
57 100

41 0.0 28.4 42.6#

56 114.1 26.3 39.5#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 0.042 ppbv

RT: 8.81 min Scan# 1874

Delta R.T. 0.00 min

Lab File: VL034153.D

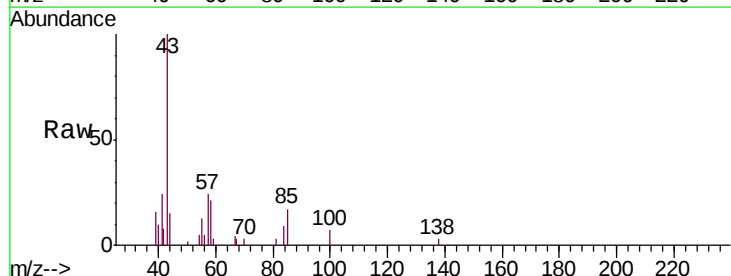
Acq: 10 Sep 2019 21:46

Tgt Ion: 43 Resp: 7978

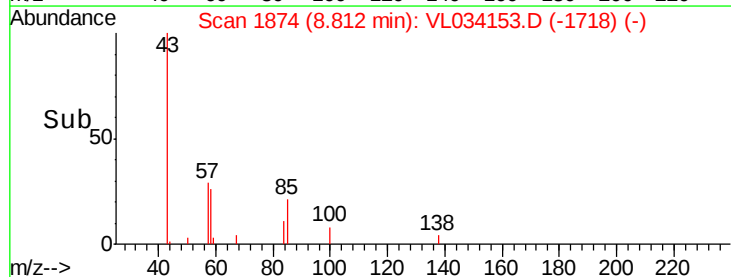
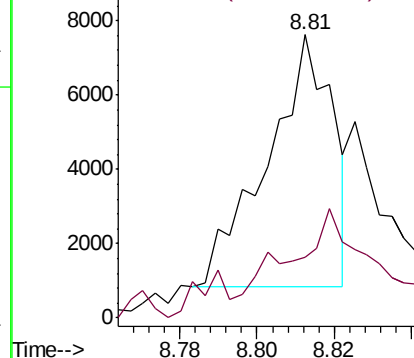
Ion Ratio Lower Upper

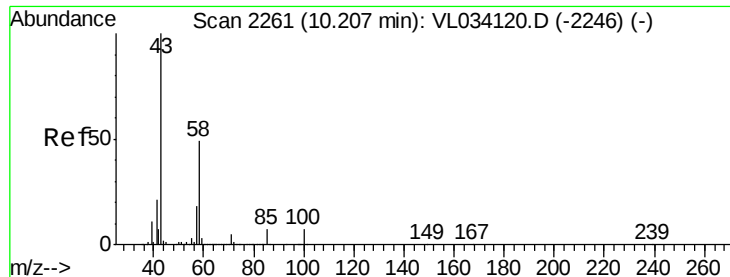
43 100

58 0.0 28.5 42.7#



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

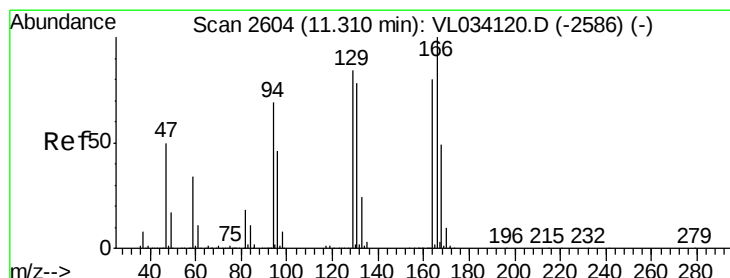
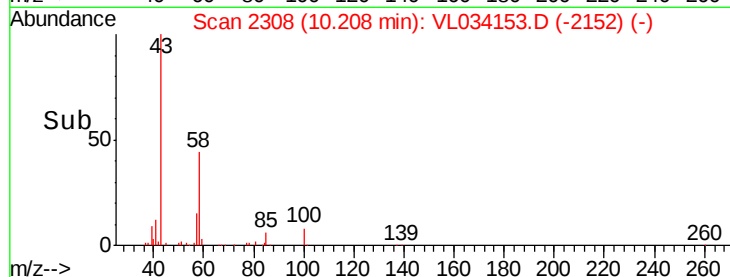
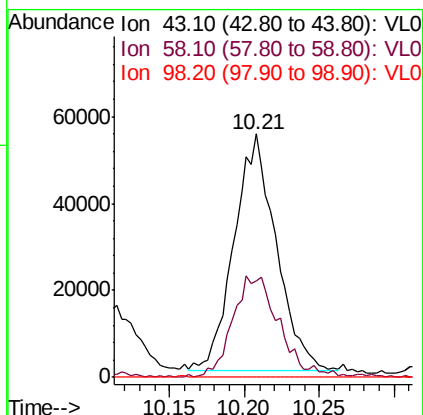
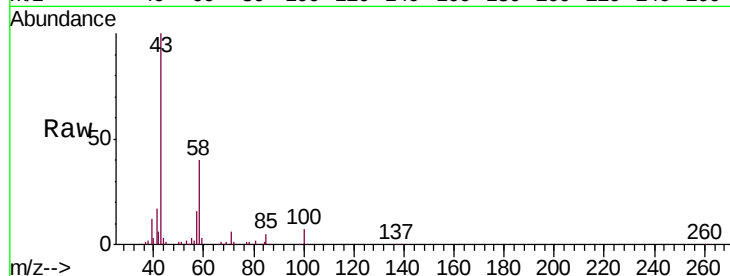




#51
2-Hexanone
Concen: 0.657 ppbv
RT: 10.21 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VL034153.D
Acq: 10 Sep 2019 21:46

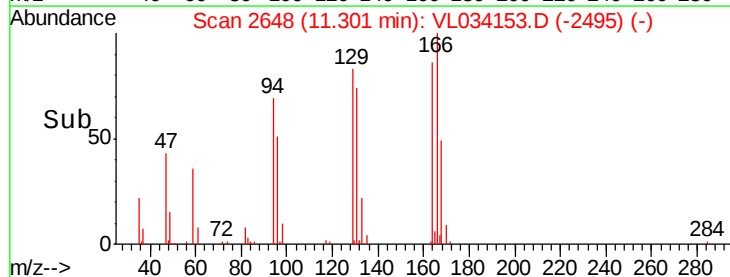
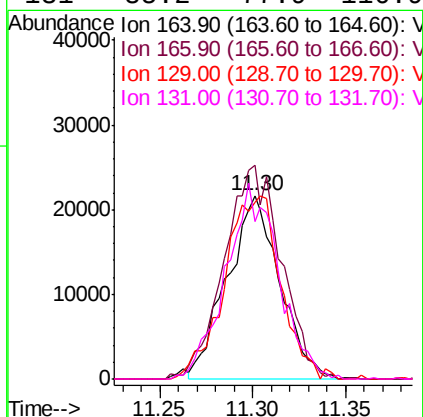
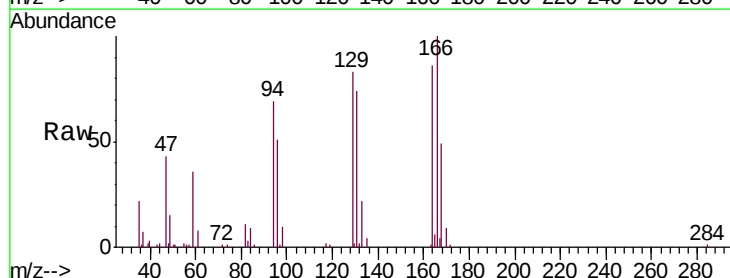
Instrument :
MSVOA_L
ClientSampleId :
SV4DLDUP

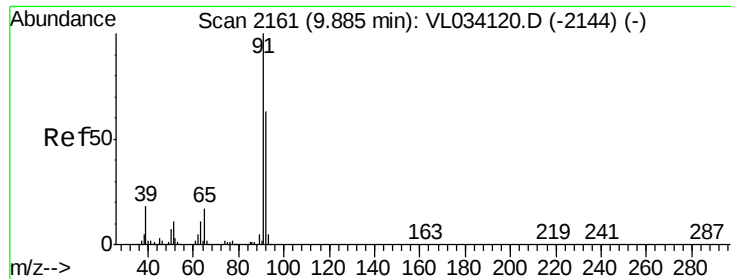
Tgt Ion: 43 Resp: 106499
Ion Ratio Lower Upper
43 100
58 48.4 38.2 57.2
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 0.827 ppbv
RT: 11.30 min Scan# 2648
Delta R.T. -0.01 min
Lab File: VL034153.D
Acq: 10 Sep 2019 21:46

Tgt Ion: 164 Resp: 42663
Ion Ratio Lower Upper
164 100
166 116.4 99.5 149.3
129 98.0 83.6 125.4
131 85.2 77.9 116.9





#53

Toluene

Concen: 0.940 ppbv

RT: 9.88 min Scan# 2205

Delta R.T. -0.01 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

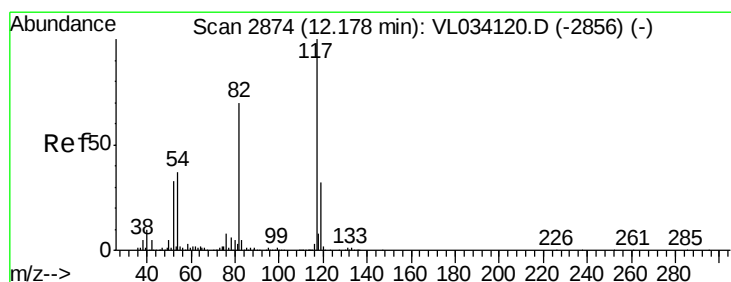
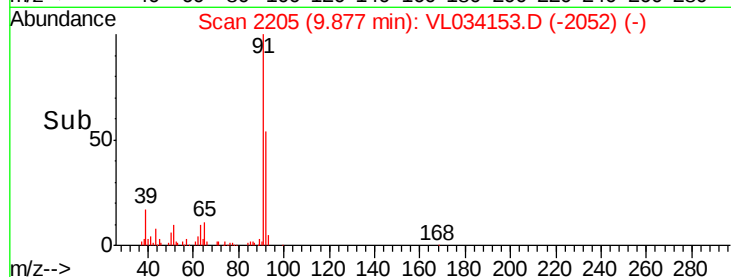
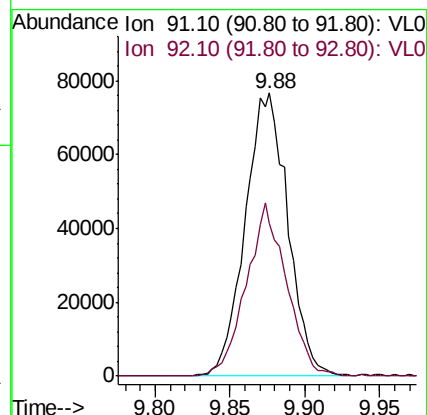
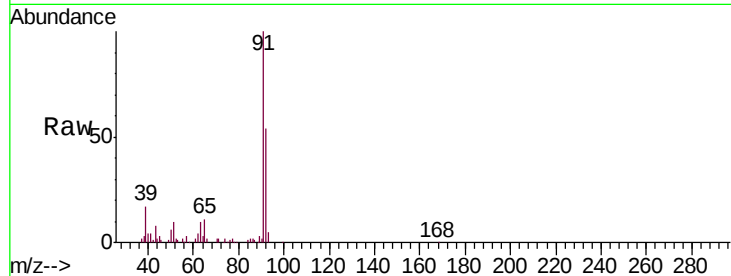
SV4DLDUP

Tgt Ion: 91 Resp: 152089

Ion Ratio Lower Upper

91 100

92 57.8 49.3 73.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2916

Delta R.T. -0.01 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

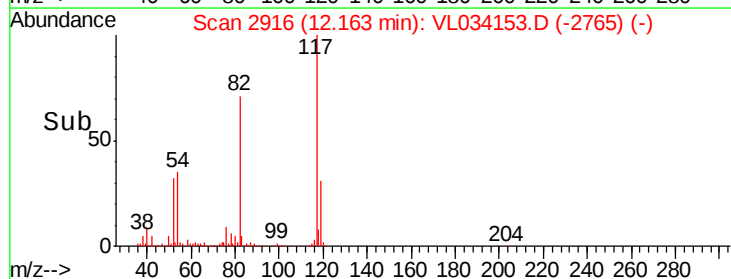
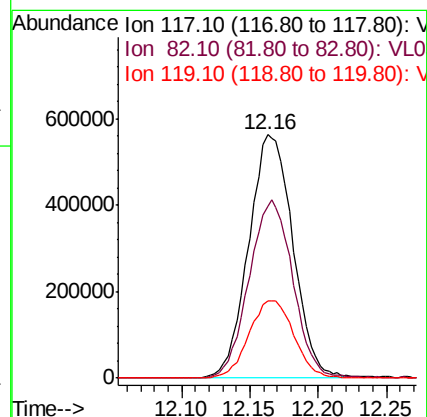
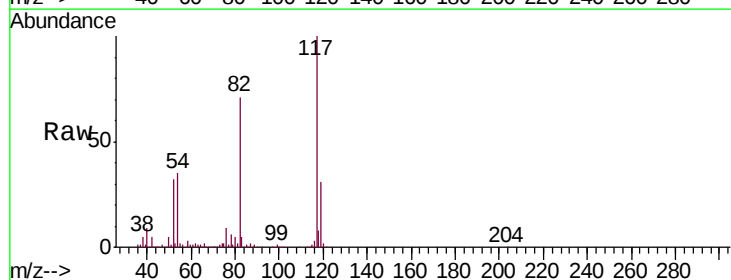
Tgt Ion: 117 Resp: 1265238

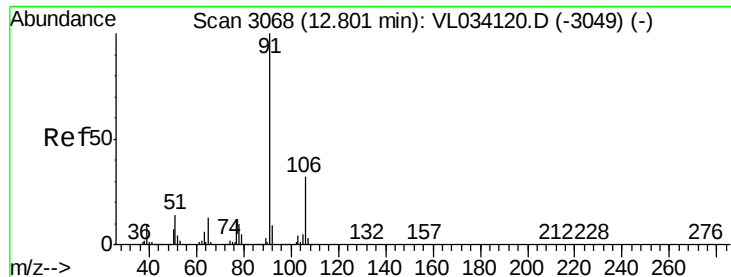
Ion Ratio Lower Upper

117 100

82 73.5 55.8 83.6

119 32.3 43.1 64.7#





#58

Ethyl Benzene

Concen: 0.248 ppbv

RT: 13.04 min Scan# 3190

Delta R.T. 0.24 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Instrument :

MSVOA_L

ClientSampleId :

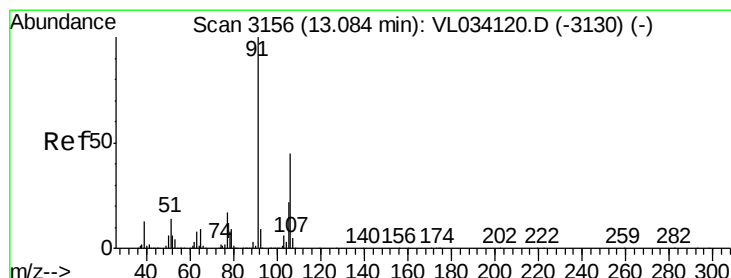
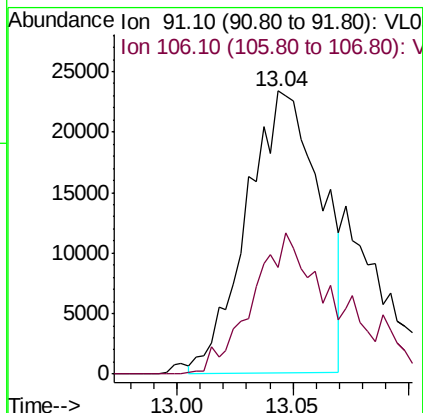
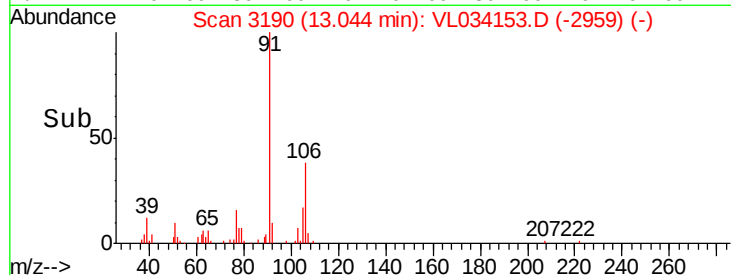
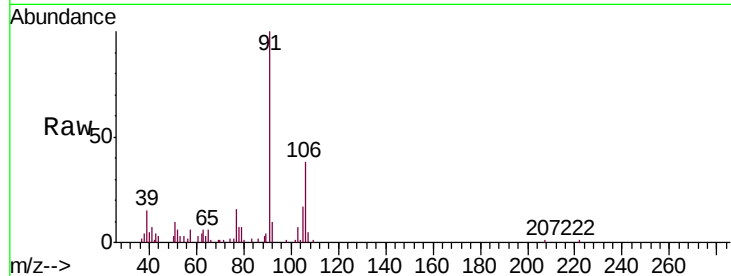
SV4DLDUP

Tgt Ion: 91 Resp: 51464

Ion Ratio Lower Upper

91 100

106 37.9 25.3 37.9



#59

m/p-Xylene

Concen: 0.095 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. -0.01 min

Lab File: VL034153.D

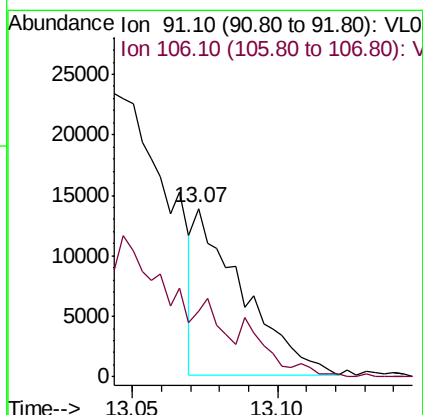
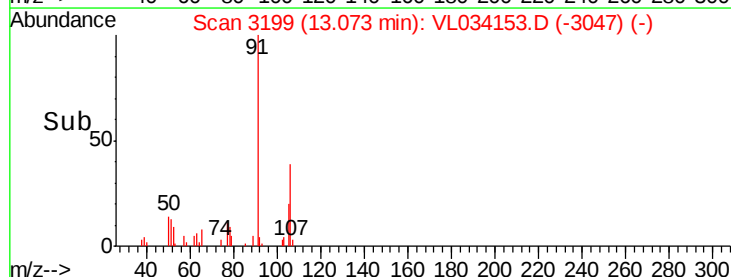
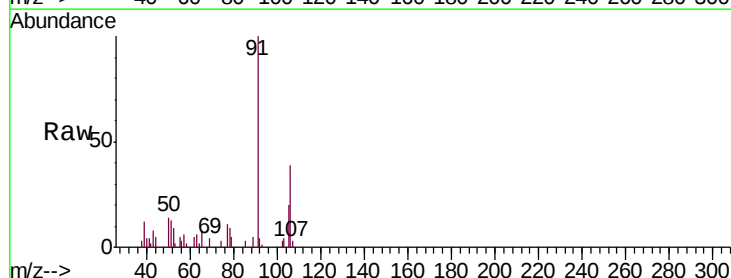
Acq: 10 Sep 2019 21:46

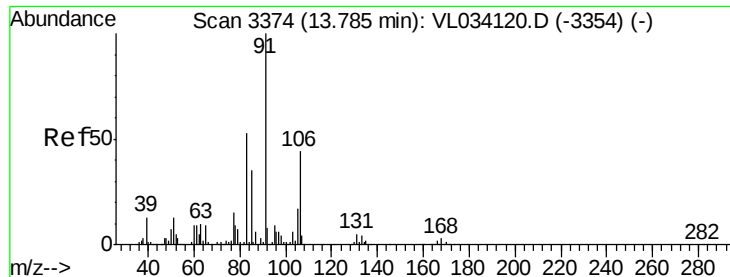
Tgt Ion: 91 Resp: 16049

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#

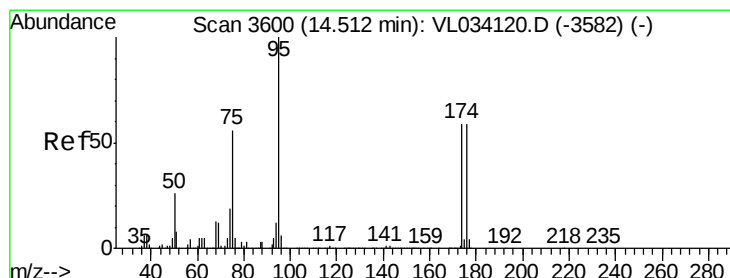
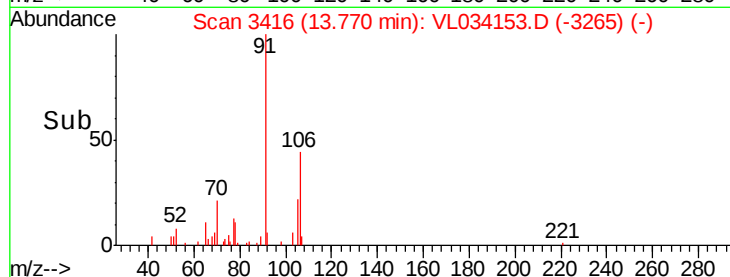
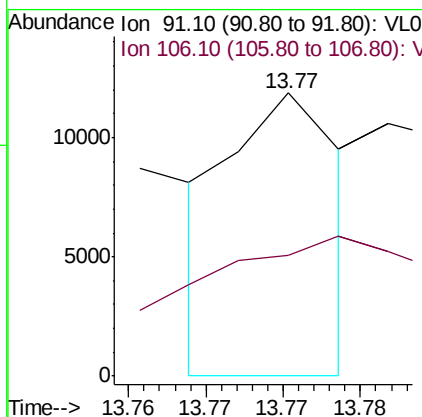
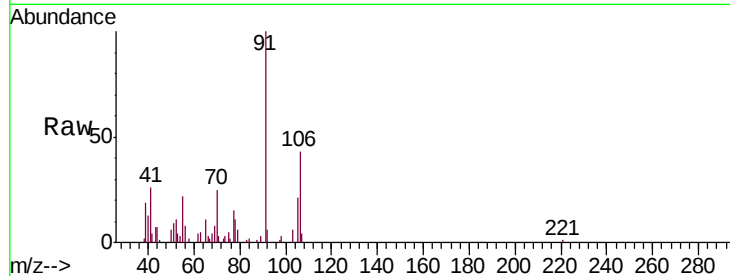




#60
o-Xylene
Concen: 0.035 ppbv
RT: 13.77 min Scan# 3416
Delta R.T. -0.02 min
Lab File: VL034153.D
Acq: 10 Sep 2019 21:46

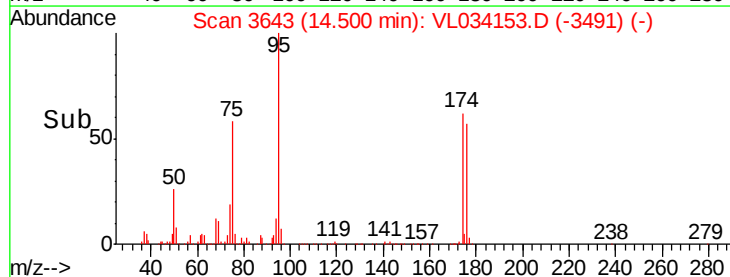
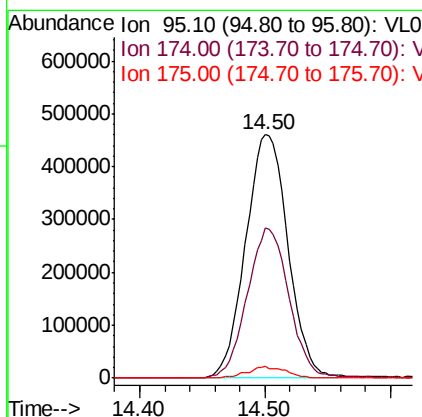
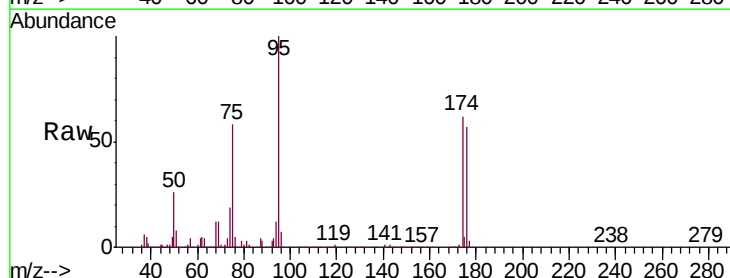
Instrument :
MSVOA_L
ClientSampleId :
SV4DLDUP

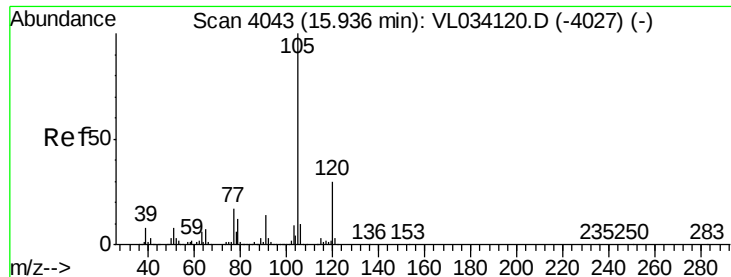
Tgt Ion: 91 Resp: 5941
Ion Ratio Lower Upper
91 100
106 0.0 21.4 64.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.431 ppbv
RT: 14.50 min Scan# 3643
Delta R.T. -0.01 min
Lab File: VL034153.D
Acq: 10 Sep 2019 21:46

Tgt Ion: 95 Resp: 1078977
Ion Ratio Lower Upper
95 100
174 61.5 48.1 72.1
175 4.4 3.5 5.3





#72

4-Ethyltoluene

Concen: 0.041 ppbv

RT: 15.92 min Scan# 4084

Delta R.T. -0.02 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

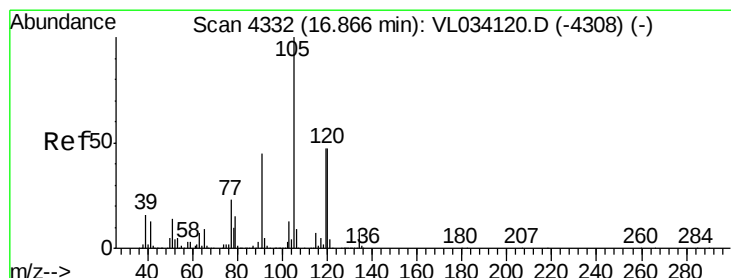
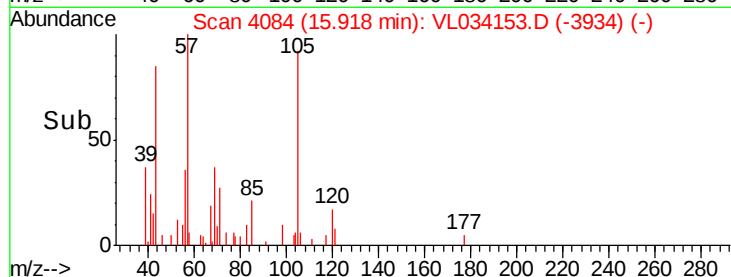
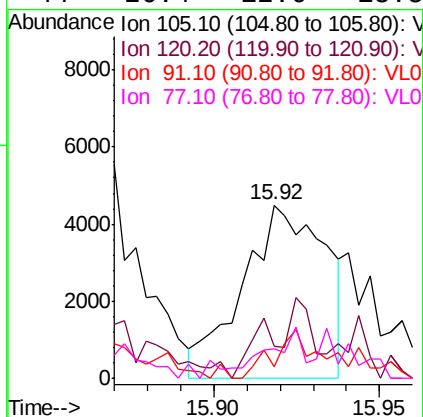
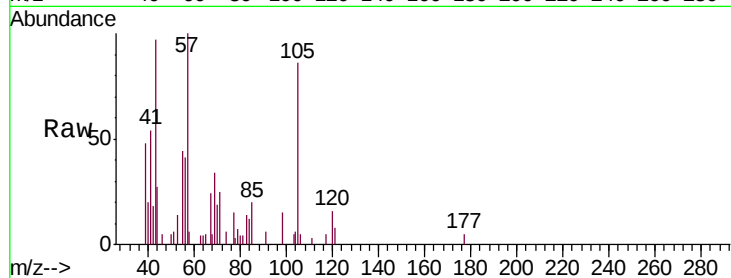
Instrument :

MSVOA_L

ClientSampleId :

SV4DLDUP

Tgt Ion:	105	Resp:	7783
Ion	Ratio	Lower	Upper
105	100		
120	38.0	23.8	35.6#
91	20.2	11.4	17.0#
77	26.4	12.6	18.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.117 ppbv

RT: 16.85 min Scan# 4375

Delta R.T. -0.01 min

Lab File: VL034153.D

Acq: 10 Sep 2019 21:46

Tgt Ion:	105	Resp:	22335
Ion	Ratio	Lower	Upper
105	100		
120	34.1	37.7	56.5#
91	13.8	36.2	54.2#
77	12.3	18.5	27.7#

