

Data File : VL034163.D
Acq On : 12 Sep 2019 19:05
Operator : SY/AP
Sample : K4775-03DL2 200X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV3DL2

Quant Time: Sep 13 01:48:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1270658	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.22	114	2101171	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	2109692	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1830102	10.61	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

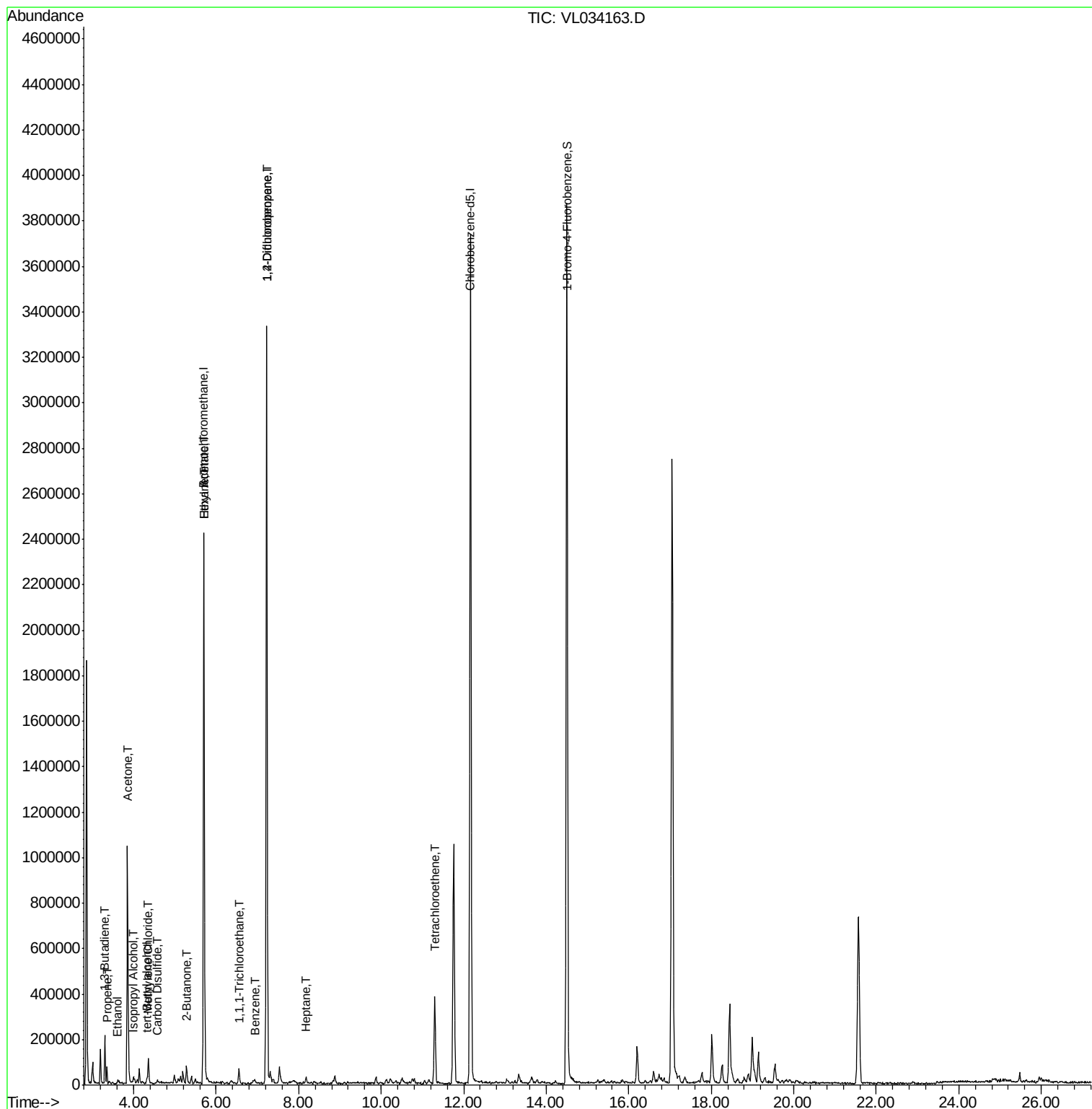
Target Compounds						Qvalue
9) Propene	3.35	41	9801	0.124	ppbv	98
10) Heptane	8.18	43	7206	0.035	ppbv #	72
13) Ethanol	3.59	45	913	0.059	ppbv #	37
15) Acetone	3.85	43	1057664	6.907	ppbv	100
16) 1,3-Butadiene	3.30	39	50921	0.657	ppbv #	22
17) tert-Butyl alcohol	4.32	59	6370	0.057	ppbv #	31
19) Isopropyl Alcohol	3.99	45	20428	0.198	ppbv #	97
20) Methylene Chloride	4.36	84	33204	0.656	ppbv #	82
25) Ethyl Acetate	5.71	43	10367	0.031	ppbv #	80
26) Hexane	5.71	57	14405	0.096	ppbv #	1
27) Carbon Disulfide	4.57	76	5831	0.043	ppbv #	1
32) 1,1,1-Trichloroethane	6.55	97	30428	0.160	ppbv	92
34) 2-Butanone	5.28	43	87064	0.431	ppbv	96
36) Benzene	6.94	78	7485	0.031	ppbv #	84
39) 1,2-Dichloropropane	7.22	63	695939	6.771	ppbv #	26
52) Tetrachloroethene	11.29	164	28196	0.333	ppbv #	75

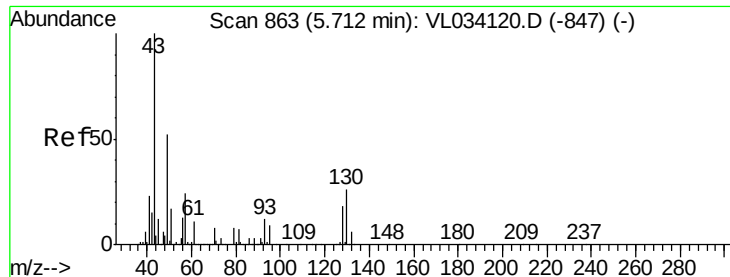
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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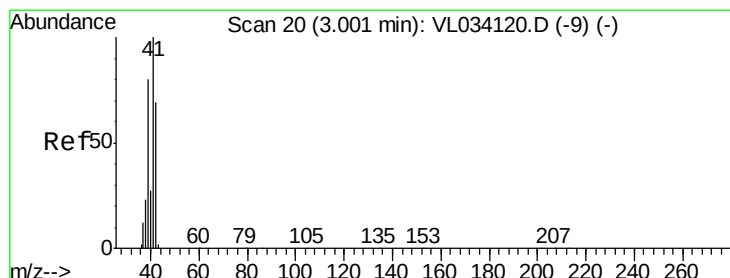
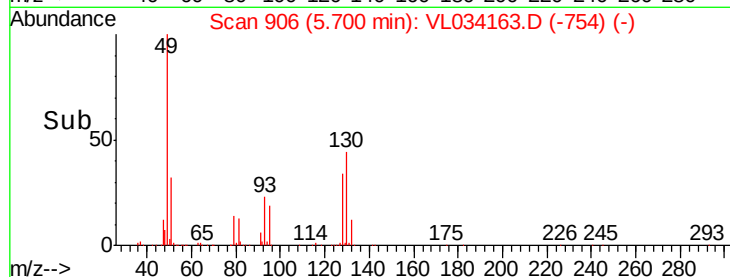
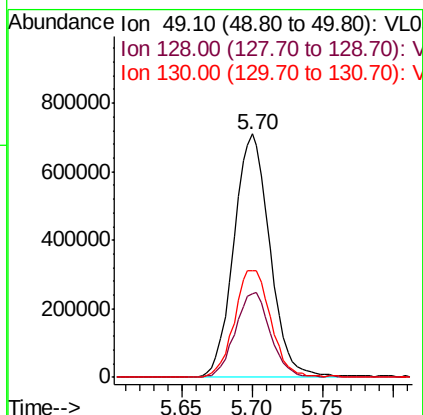
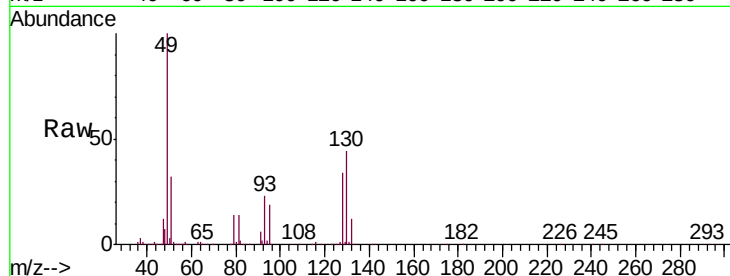




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.70 min Scan# 906
 Delta R.T. -0.01 min
 Lab File: VL034163.D
 Acq: 12 Sep 2019 19:05

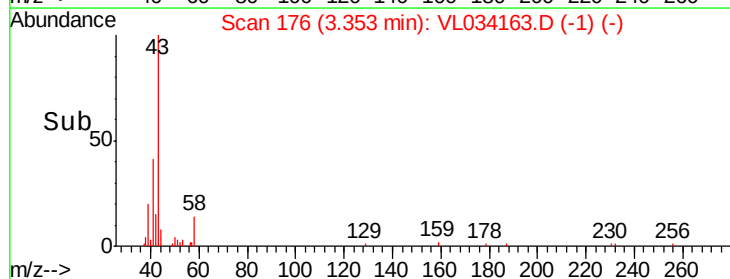
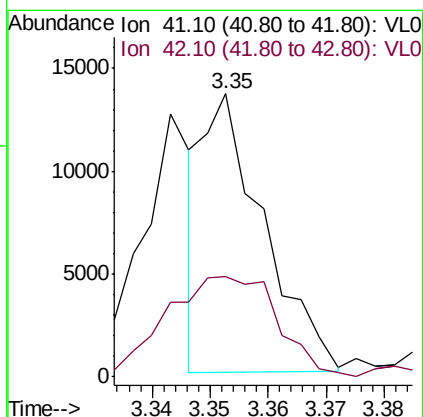
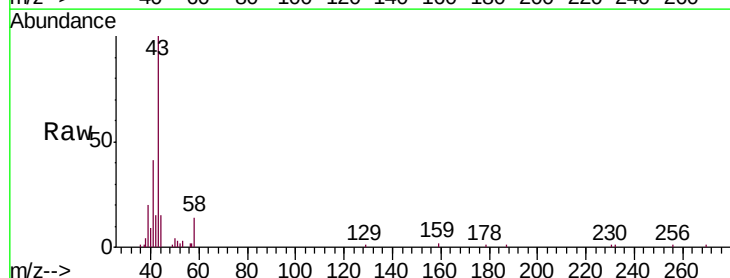
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL2

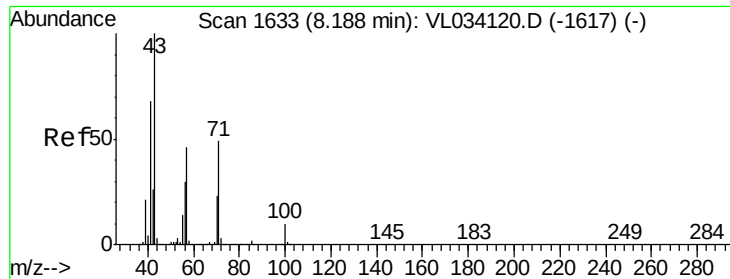
Tgt Ion: 49 Resp: 1270658
 Ion Ratio Lower Upper
 49 100
 128 34.8 18.4 55.0
 130 45.1 23.5 70.6



#9
 Propene
 Concen: 0.124 ppbv
 RT: 3.35 min Scan# 176
 Delta R.T. 0.35 min
 Lab File: VL034163.D
 Acq: 12 Sep 2019 19:05

Tgt Ion: 41 Resp: 9801
 Ion Ratio Lower Upper
 41 100
 42 69.7 54.6 81.8





#10

Heptane

Concen: 0.035 ppbv

RT: 8.18 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VL034163.D

Acq: 12 Sep 2019 19:05

Instrument :

MSVOA_L

ClientSampleId :

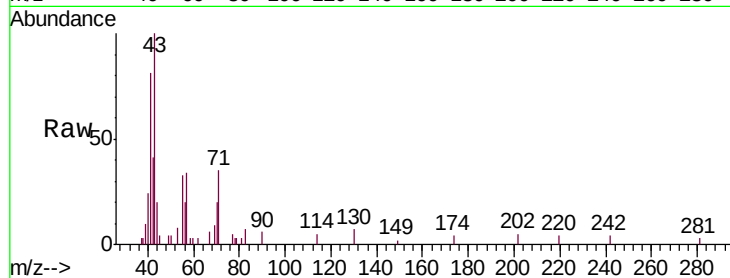
SV3DL2

Tgt Ion: 43 Resp: 7206

Ion Ratio Lower Upper

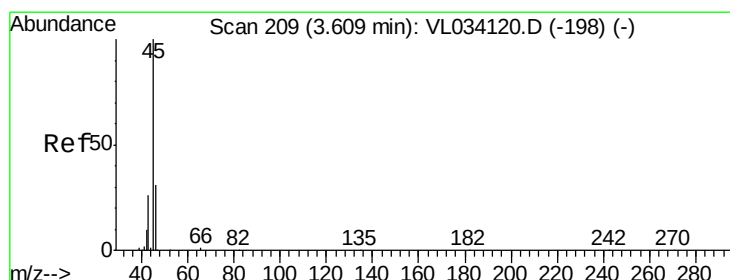
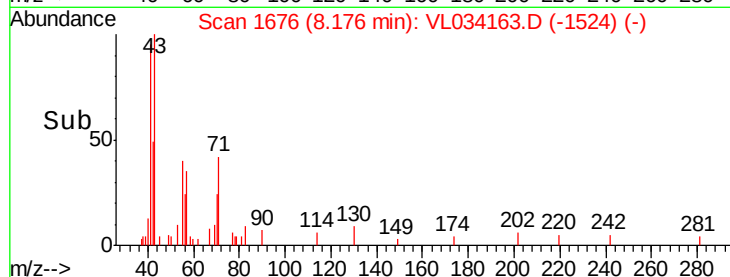
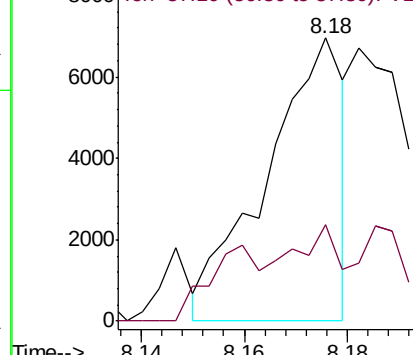
43 100

57 66.3 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: 0.059 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.02 min

Lab File: VL034163.D

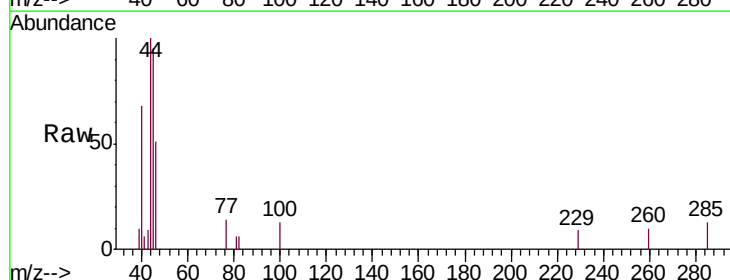
Acq: 12 Sep 2019 19:05

Tgt Ion: 45 Resp: 913

Ion Ratio Lower Upper

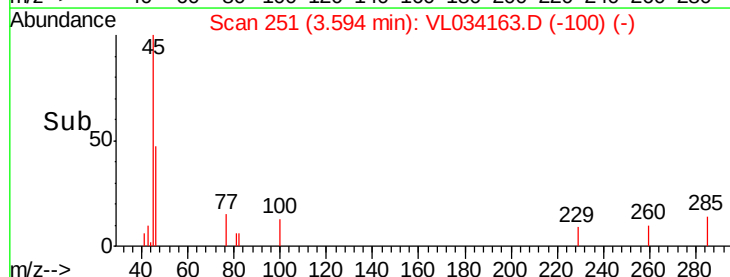
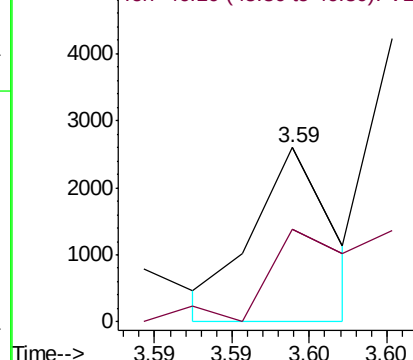
45 100

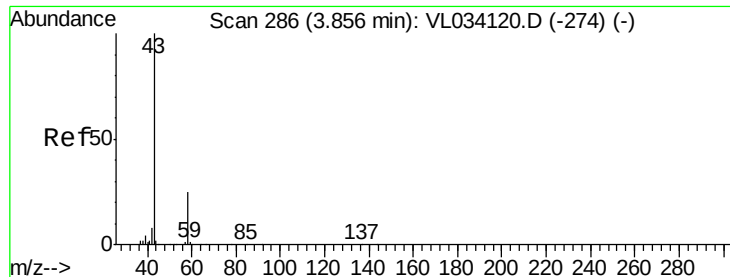
46 0.0 15.0 60.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 6.907 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL034163.D

Acq: 12 Sep 2019 19:05

Instrument :

MSVOA_L

ClientSampleId :

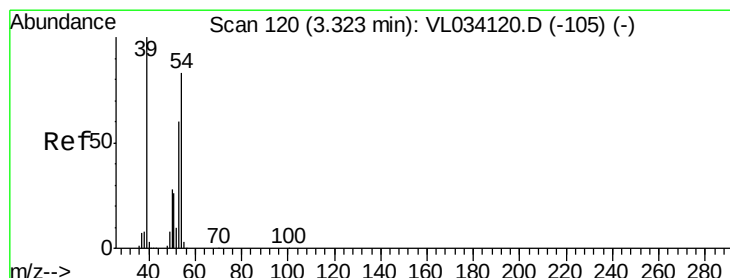
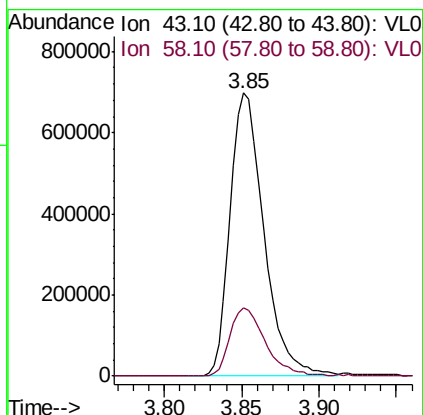
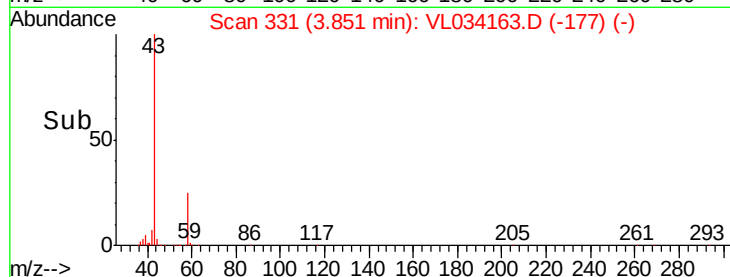
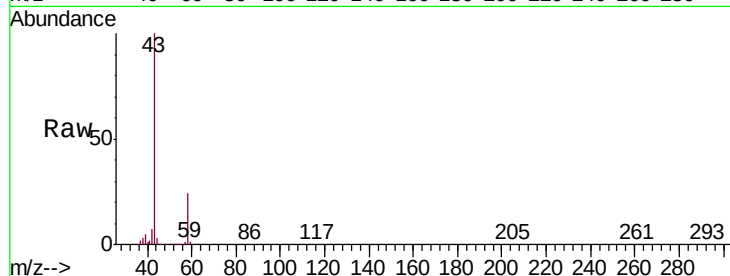
SV3DL2

Tgt Ion: 43 Resp: 1057664

Ion Ratio Lower Upper

43 100

58 25.6 20.6 30.8



#16

1,3-Butadiene

Concen: 0.657 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.02 min

Lab File: VL034163.D

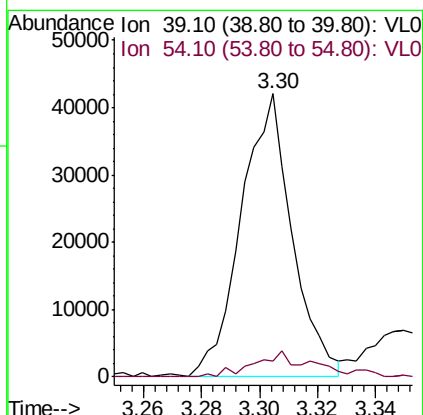
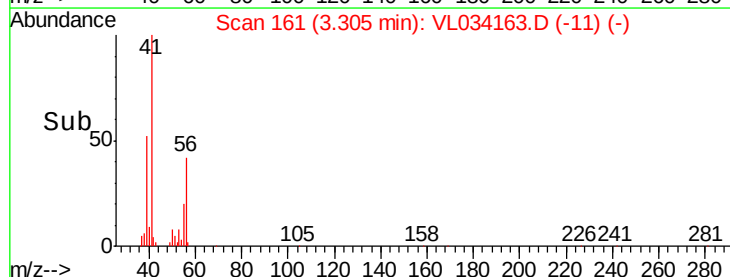
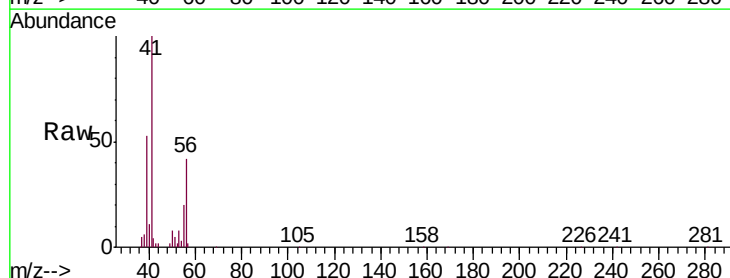
Acq: 12 Sep 2019 19:05

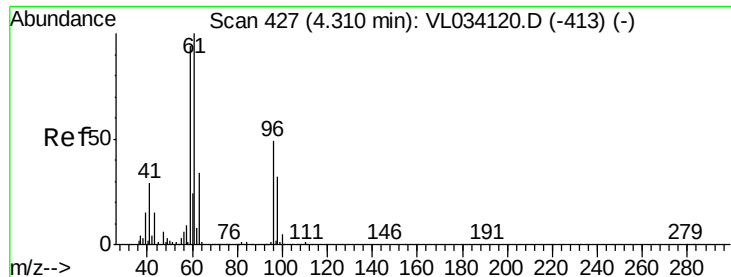
Tgt Ion: 39 Resp: 50921

Ion Ratio Lower Upper

39 100

54 10.9 63.5 95.3#





#17

tert-Butyl alcohol

Concen: 0.057 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.01 min

Lab File: VL034163.D

Acq: 12 Sep 2019 19:05

Instrument :

MSVOA_L

ClientSampleId :

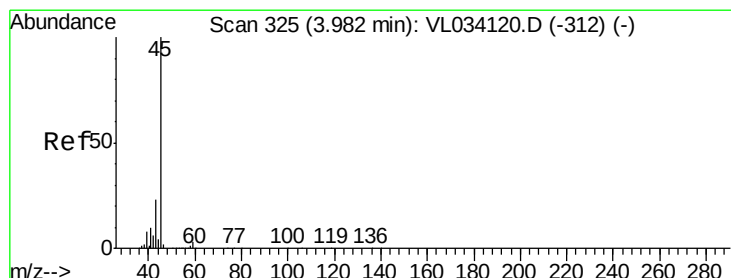
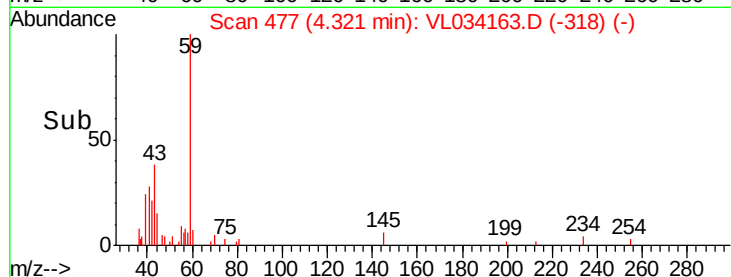
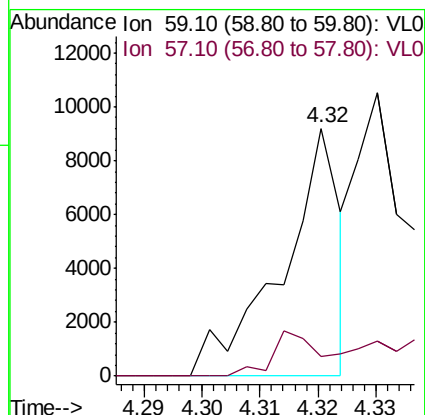
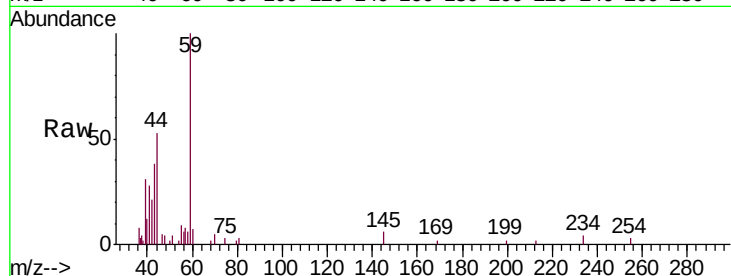
SV3DL2

Tgt Ion: 59 Resp: 6370

Ion Ratio Lower Upper

59 100

57 36.8 8.6 12.8#



#19

Isopropyl Alcohol

Concen: 0.198 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.01 min

Lab File: VL034163.D

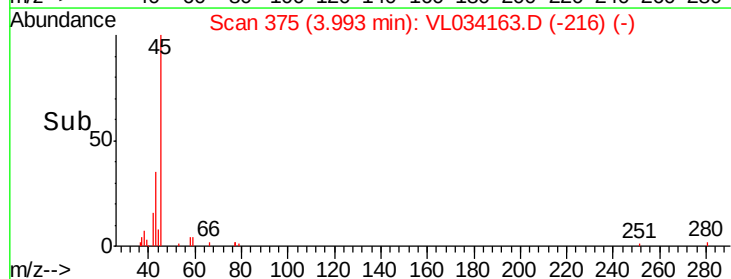
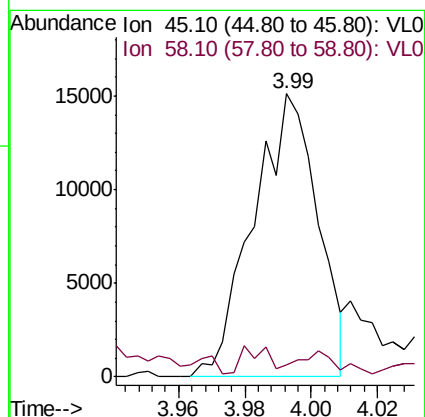
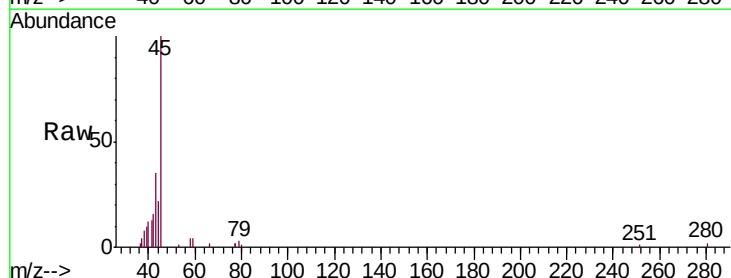
Acq: 12 Sep 2019 19:05

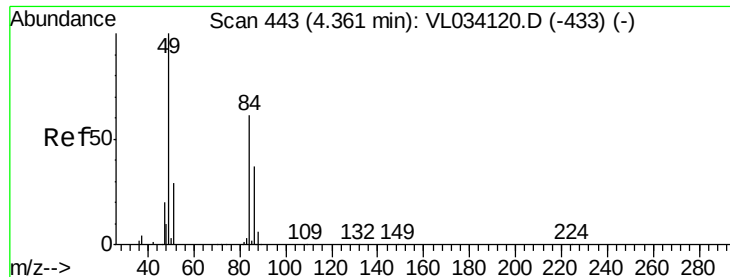
Tgt Ion: 45 Resp: 20428

Ion Ratio Lower Upper

45 100

58 0.0 1.0 1.6#

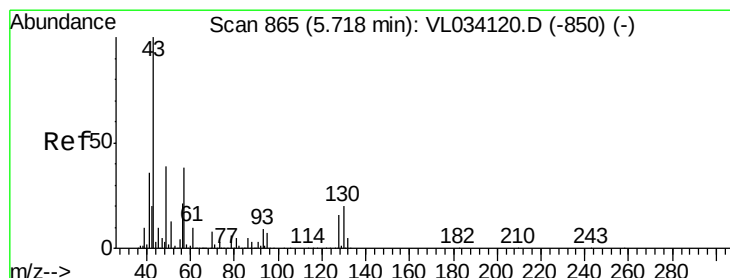
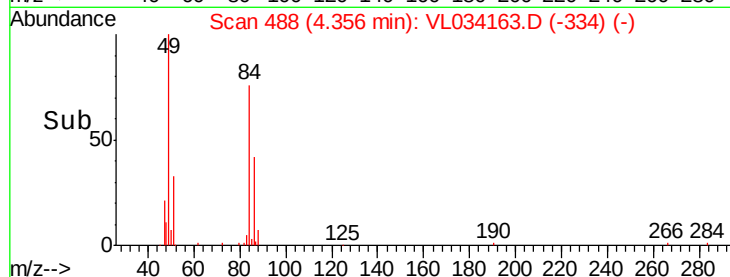
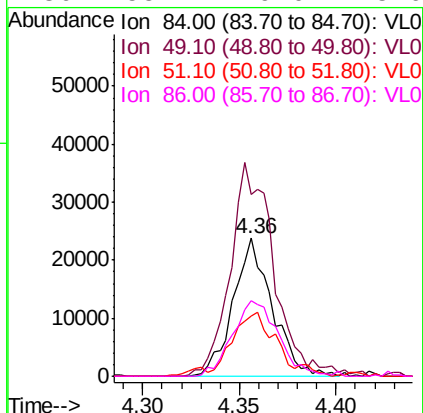
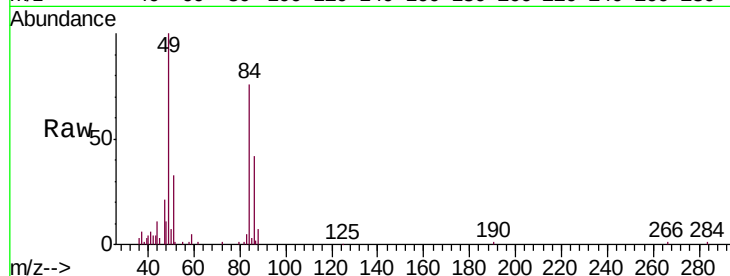




#20
Methylene Chloride
Concen: 0.656 ppbv
RT: 4.36 min Scan# 488
Delta R.T. -0.01 min
Lab File: VL034163.D
Acq: 12 Sep 2019 19:05

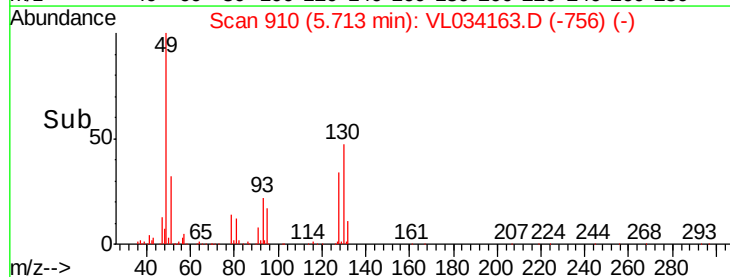
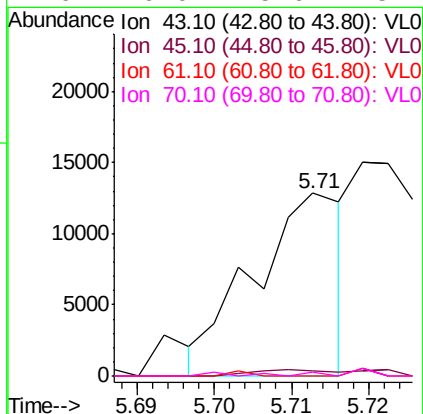
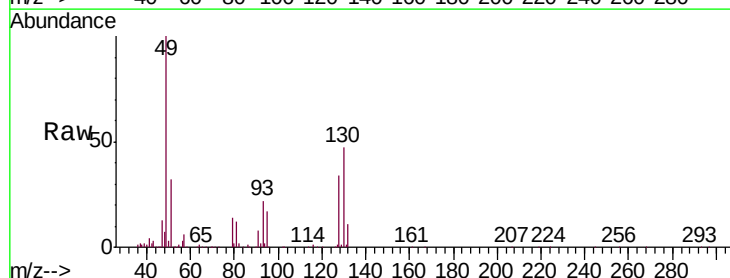
Instrument :
MSVOA_L
ClientSampleId :
SV3DL2

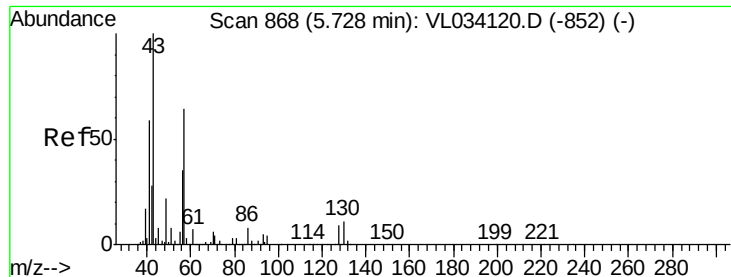
Tgt Ion:	84	Resp:	33204
Ion	Ratio	Lower	Upper
84	100		
49	130.5	131.0	196.6#
51	44.0	38.1	57.1
86	55.1	49.0	73.6



#25
Ethyl Acetate
Concen: 0.031 ppbv
RT: 5.71 min Scan# 910
Delta R.T. -0.01 min
Lab File: VL034163.D
Acq: 12 Sep 2019 19:05

Tgt Ion:	43	Resp:	10367
Ion	Ratio	Lower	Upper
43	100		
45	4.5	8.2	12.4#
61	0.0	7.4	11.2#
70	0.0	5.6	8.4#





#26

Hexane

Concen: 0.096 ppbv

RT: 5.71 min Scan# 910

Delta R.T. -0.01 min

Lab File: VL034163.D

Acq: 12 Sep 2019 19:05

Instrument :

MSVOA_L

ClientSampleId :

SV3DL2

Tgt Ion: 57 Resp: 14405

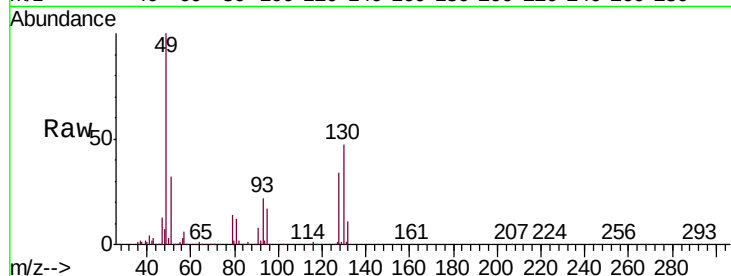
Ion Ratio Lower Upper

57 100

41 0.0 76.6 115.0#

43 0.0 189.2 283.8#

56 0.0 43.0 64.4#

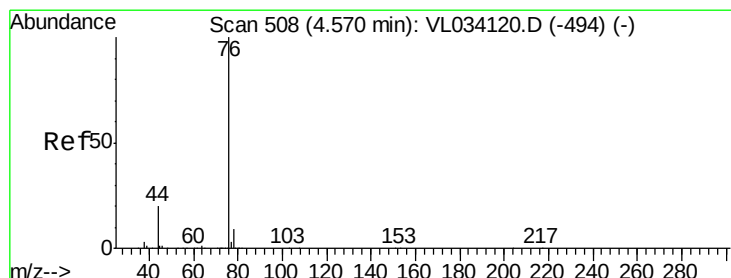
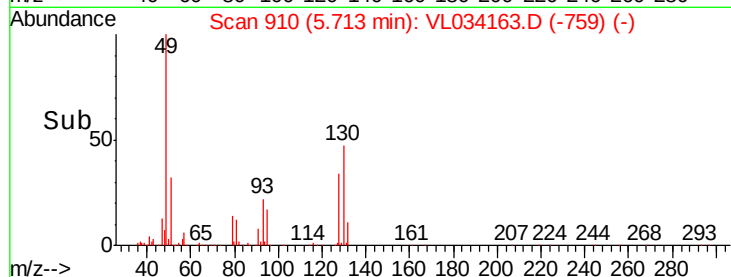
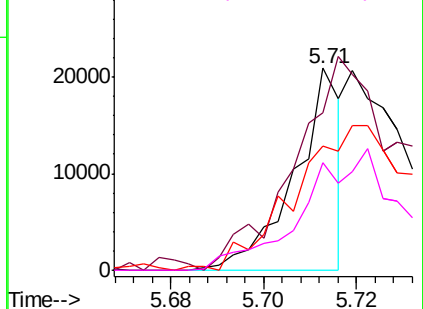


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.043 ppbv

RT: 4.57 min Scan# 555

Delta R.T. 0.00 min

Lab File: VL034163.D

Acq: 12 Sep 2019 19:05

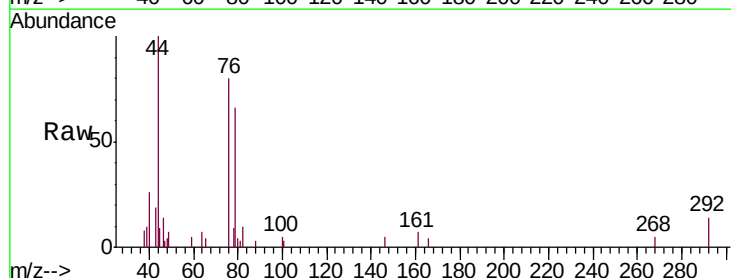
Tgt Ion: 76 Resp: 5831

Ion Ratio Lower Upper

76 100

44 111.5 17.6 26.4#

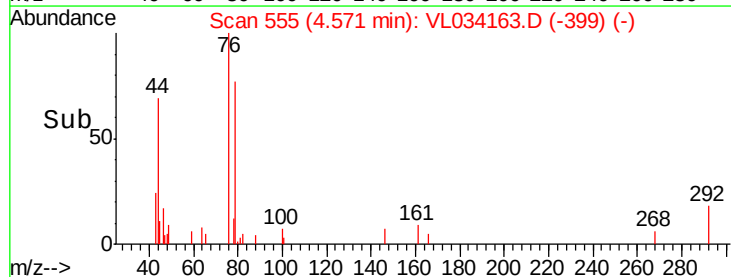
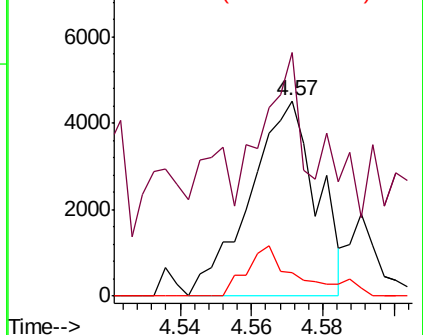
78 20.0 7.3 10.9#

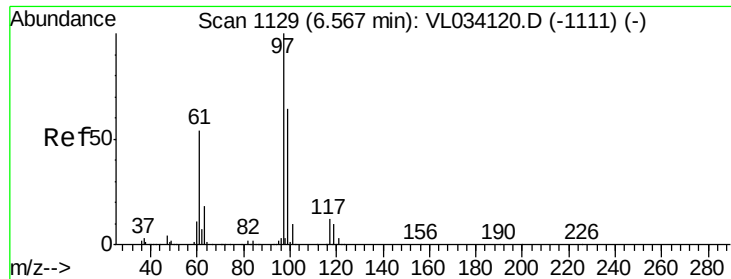


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.160 ppbv

RT: 6.55 min Scan# 1171

Delta R.T. -0.01 min

Lab File: VL034163.D

Acq: 12 Sep 2019 19:05

Instrument :

MSVOA_L

ClientSampleId :

SV3DL2

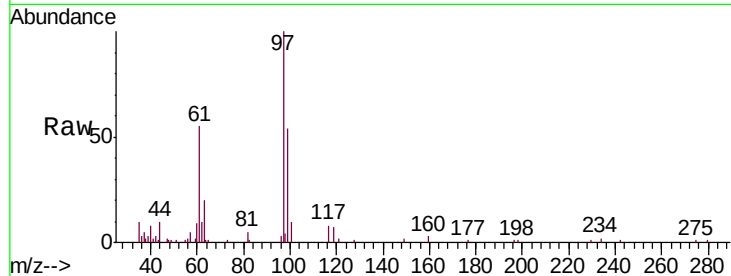
Tgt Ion: 97 Resp: 30428

Ion Ratio Lower Upper

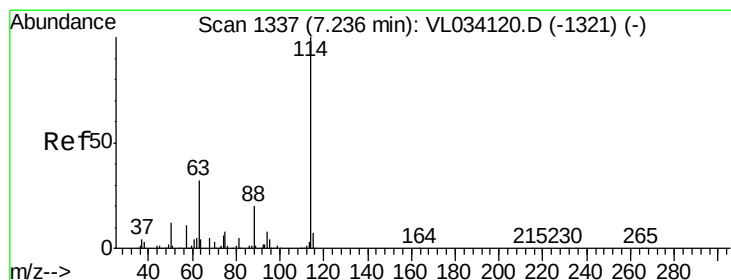
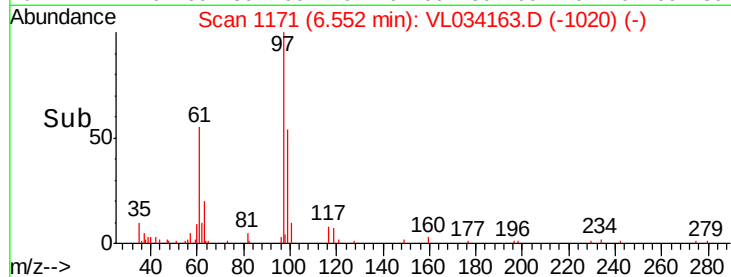
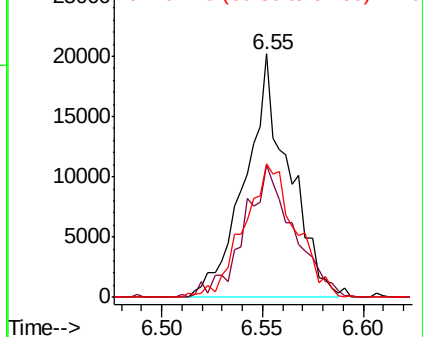
97 100

99 61.7 51.7 77.5

61 64.9 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: 7.22 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VL034163.D

Acq: 12 Sep 2019 19:05

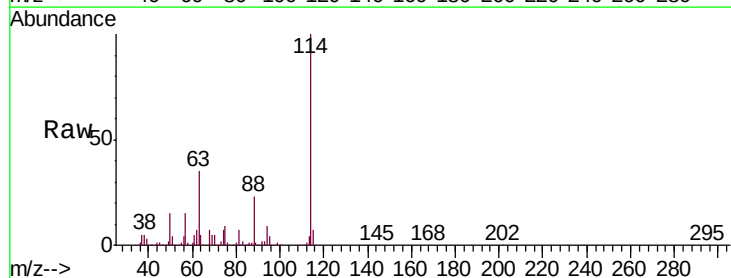
Tgt Ion: 114 Resp: 2101171

Ion Ratio Lower Upper

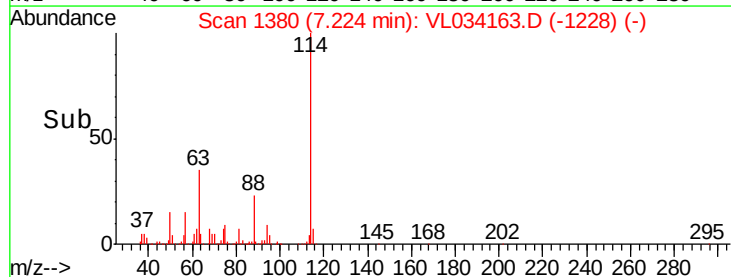
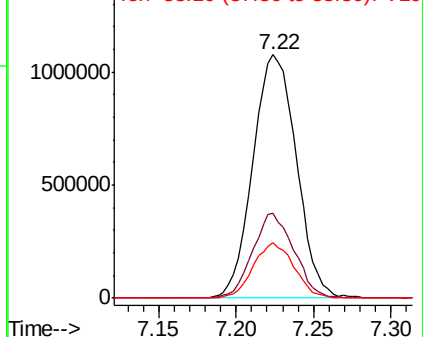
114 100

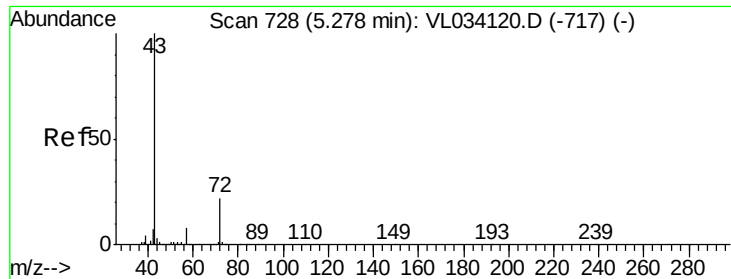
63 33.3 25.5 38.3

88 21.5 16.8 25.2



Abundance Ion 114.10 (113.80 to 114.80): VL0
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

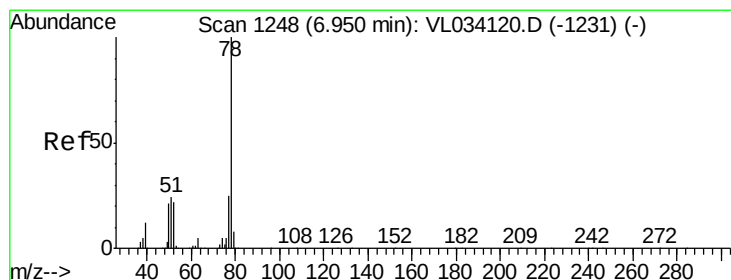
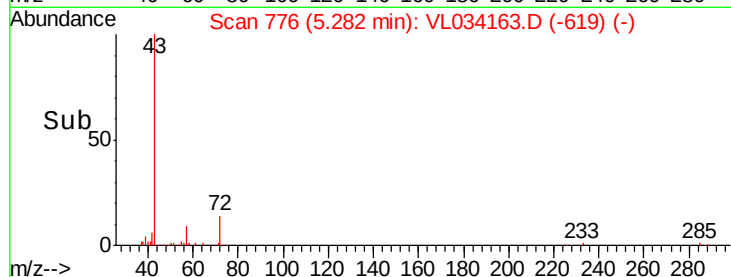
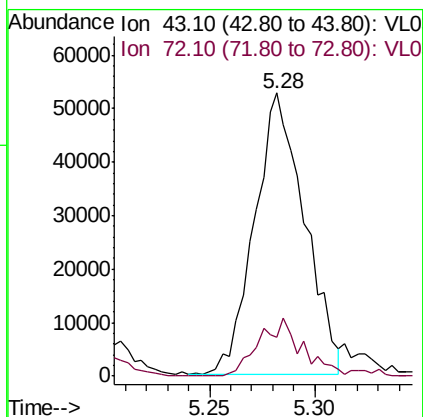
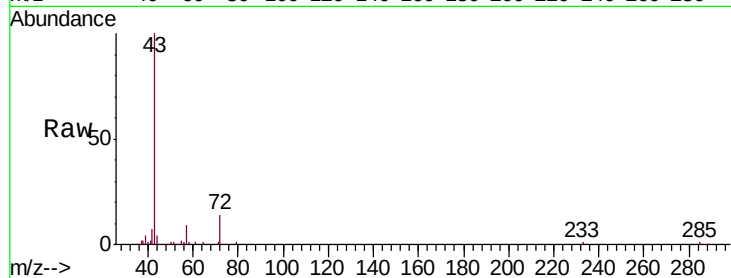




#34
2-Butanone
Concen: 0.431 ppbv
RT: 5.28 min Scan# 776
Delta R.T. 0.00 min
Lab File: VL034163.D
Acq: 12 Sep 2019 19:05

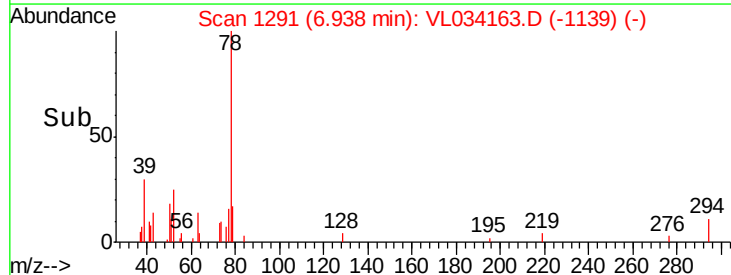
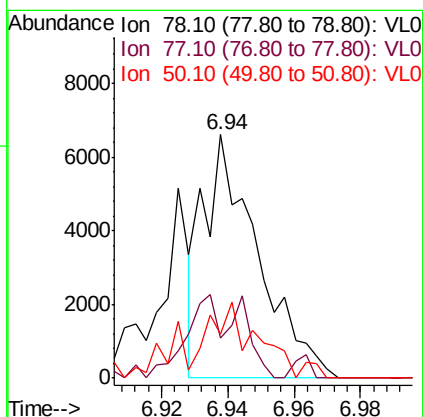
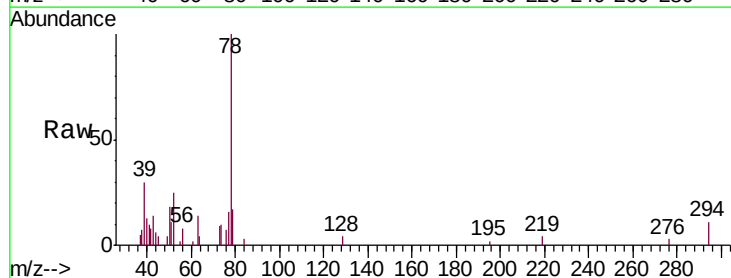
Instrument :
MSVOA_L
ClientSampleId :
SV3DL2

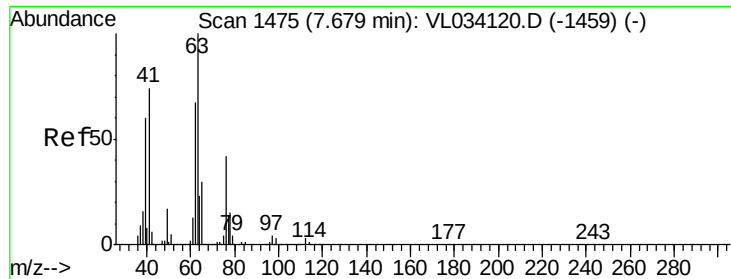
Tgt Ion: 43 Resp: 87064
Ion Ratio Lower Upper
43 100
72 18.7 16.5 24.7



#36
Benzene
Concen: 0.031 ppbv
RT: 6.94 min Scan# 1291
Delta R.T. -0.01 min
Lab File: VL034163.D
Acq: 12 Sep 2019 19:05

Tgt Ion: 78 Resp: 7485
Ion Ratio Lower Upper
78 100
77 16.4 20.3 30.5#
50 14.8 16.9 25.3#





#39

1,2-Dichloropropane

Concen: 6.771 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.46 min

Lab File: VL034163.D

Acq: 12 Sep 2019 19:05

Instrument :

MSVOA_L

ClientSampleId :

SV3DL2

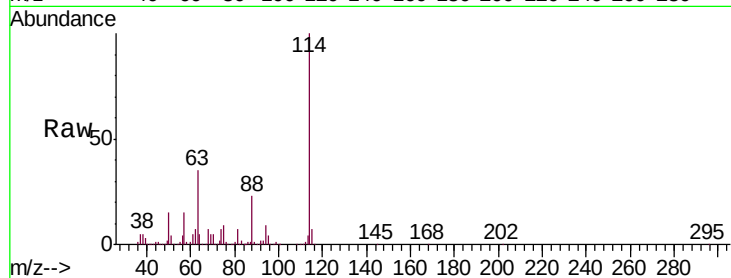
Tgt Ion: 63 Resp: 695939

Ion Ratio Lower Upper

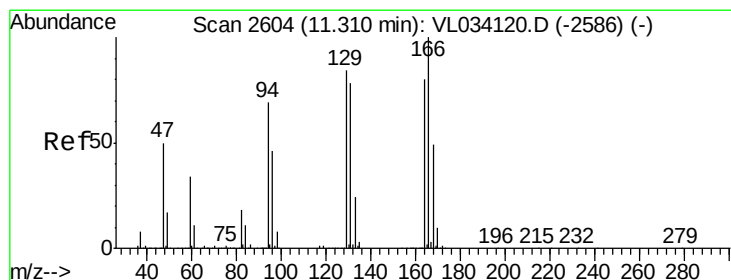
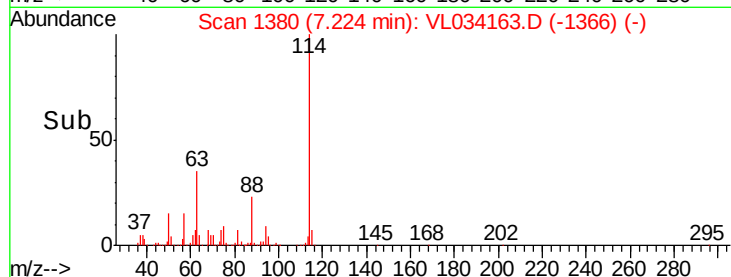
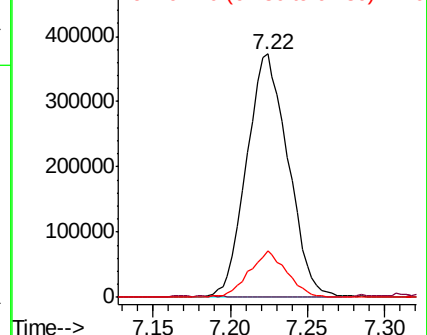
63 100

41 0.2 59.3 88.9#

62 19.3 53.8 80.6#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#52

Tetrachloroethene

Concen: 0.333 ppbv

RT: 11.29 min Scan# 2644

Delta R.T. -0.02 min

Lab File: VL034163.D

Acq: 12 Sep 2019 19:05

Tgt Ion: 164 Resp: 28196

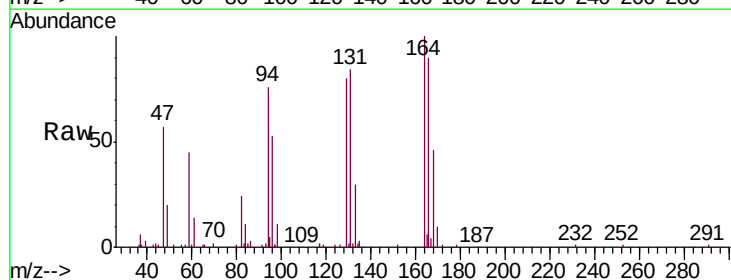
Ion Ratio Lower Upper

164 100

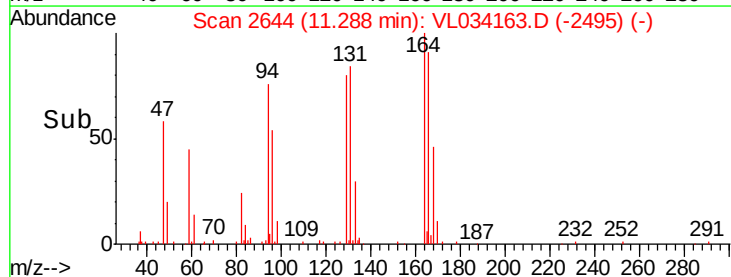
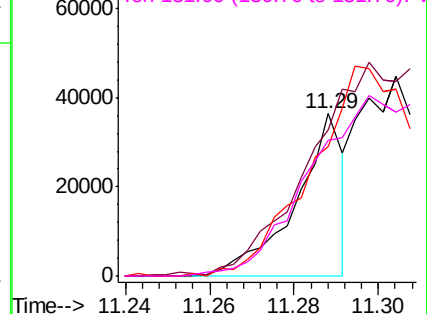
166 88.3 99.5 149.3#

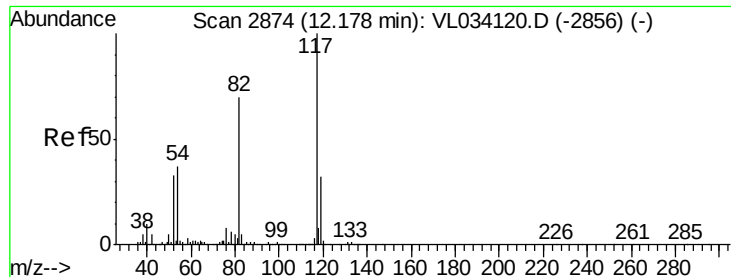
129 78.5 83.6 125.4#

131 83.1 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

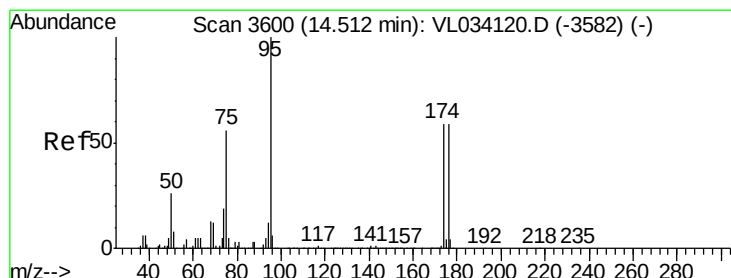
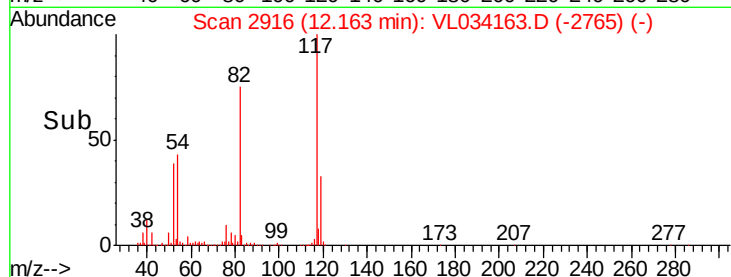
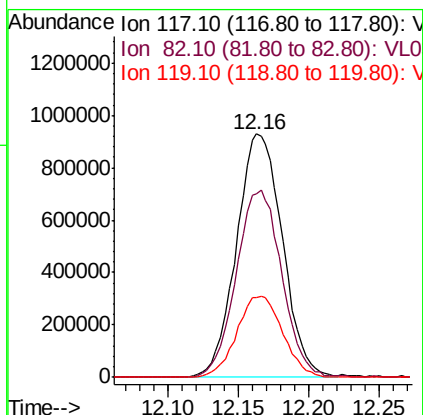
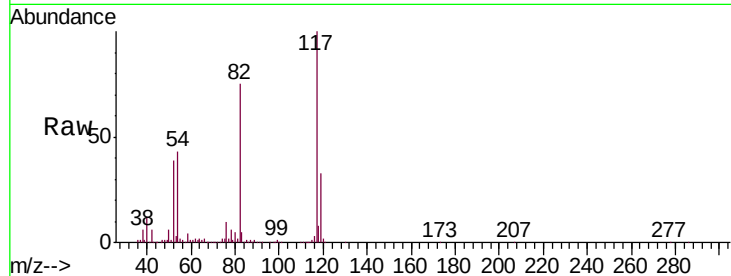




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. -0.01 min
Lab File: VL034163.D
Acq: 12 Sep 2019 19:05

Instrument :
MSVOA_L
ClientSampleId :
SV3DL2

Tgt Ion: 117 Resp: 2109692
Ion Ratio Lower Upper
117 100
82 77.2 55.8 83.6
119 33.6 43.1 64.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.611 ppbv
RT: 14.50 min Scan# 3643
Delta R.T. -0.01 min
Lab File: VL034163.D
Acq: 12 Sep 2019 19:05

Tgt Ion: 95 Resp: 1830102
Ion Ratio Lower Upper
95 100
174 57.9 48.1 72.1
175 3.8 3.5 5.3

