

Data File : VL034352.D
Acq On : 24 Oct 2019 18:50
Operator : SY/AP
Sample : K5516-01 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Quant Time: Oct 25 01:34:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	984009	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2163575	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.14	117	2151213	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.48 95 1710277 9.39 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 93.90%

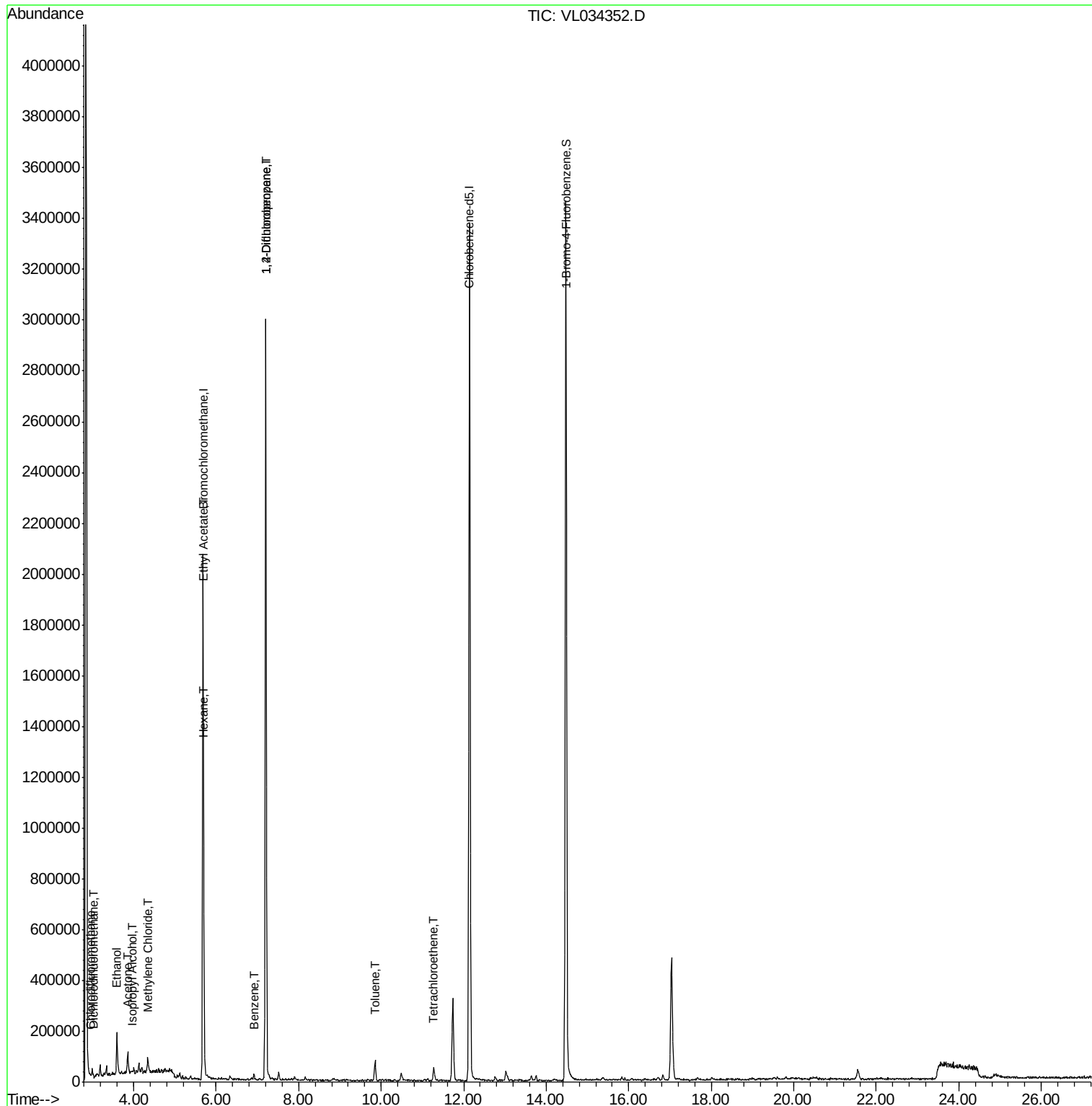
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	8819	0.052	ppbv	100
3) Chlorodifluoromethane	2.96	51	9163	0.079	ppbv #	70
13) Ethanol	3.59	45	170741	14.916	ppbv	97
15) Acetone	3.85	43	63158	0.449	ppbv	96
19) Isopropyl Alcohol	3.97	45	3570	0.045	ppbv #	1
20) Methylene Chloride	4.34	84	15986	0.314	ppbv #	85
25) Ethyl Acetate	5.70	43	24352	0.102	ppbv #	84
26) Hexane	5.70	57	29070	0.287	ppbv #	44
36) Benzene	6.92	78	13137	0.063	ppbv #	87
39) 1,2-Dichloropropane	7.20	63	574784	6.430	ppbv #	22
52) Tetrachloroethene	11.26	164	4830	0.059	ppbv #	64
53) Toluene	9.85	91	59737	0.261	ppbv	98

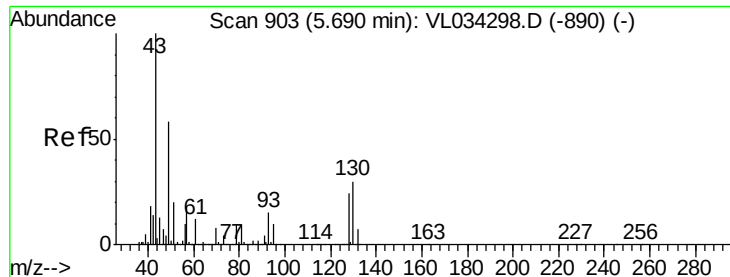
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.01 min

Lab File: VL034352.D

Acq: 24 Oct 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

SV-2

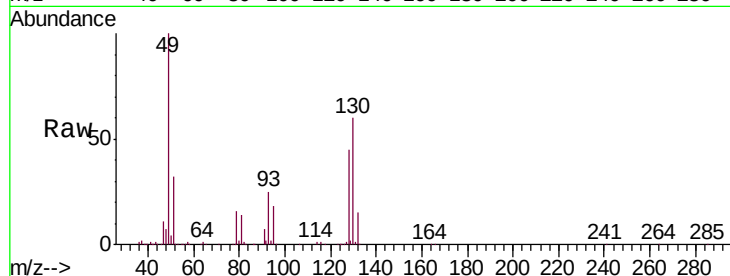
Tgt Ion: 49 Resp: 984009

Ion Ratio Lower Upper

49 100

128 45.8 20.6 61.8

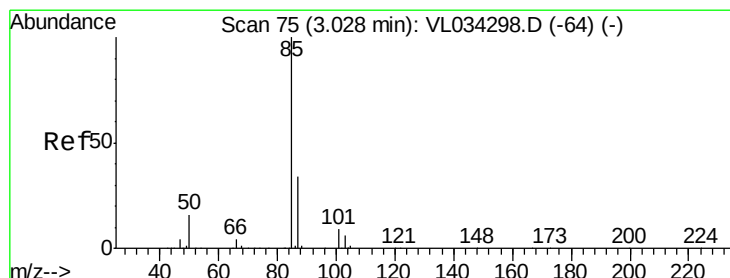
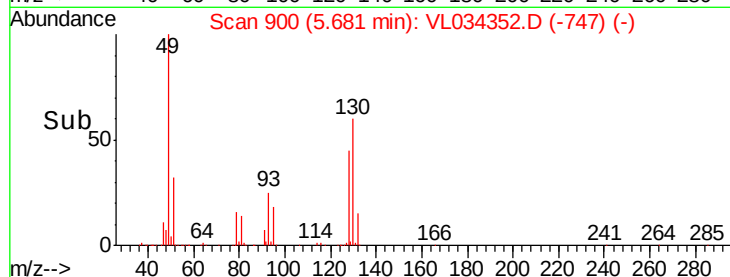
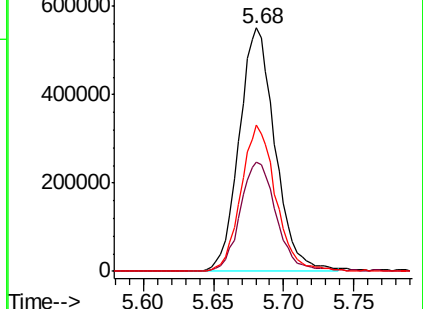
130 59.0 26.2 78.5



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: 0.052 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL034352.D

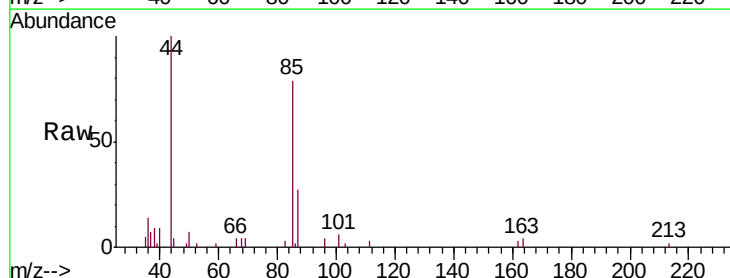
Acq: 24 Oct 2019 18:50

Tgt Ion: 85 Resp: 8819

Ion Ratio Lower Upper

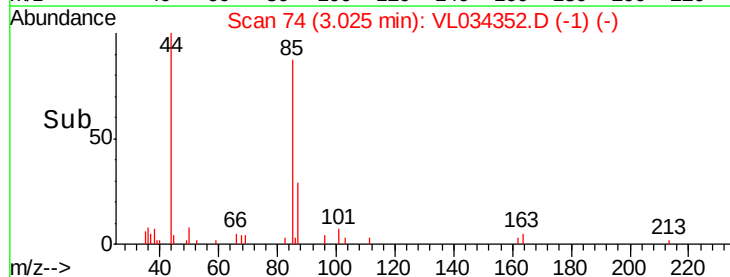
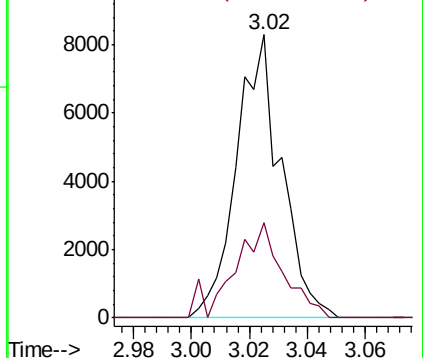
85 100

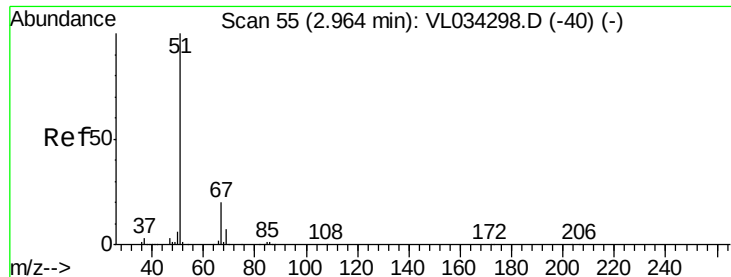
87 33.8 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

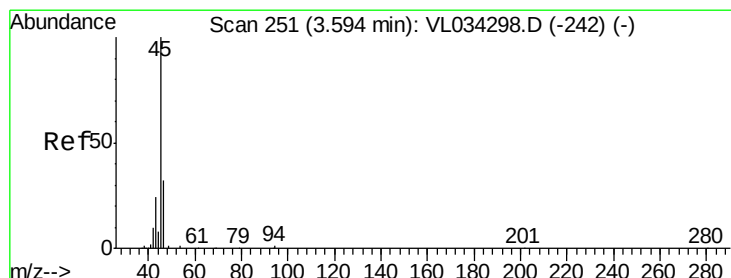
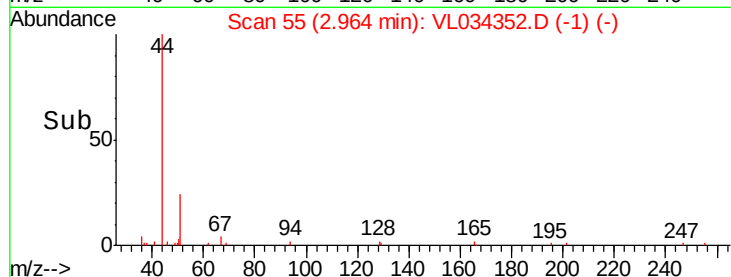
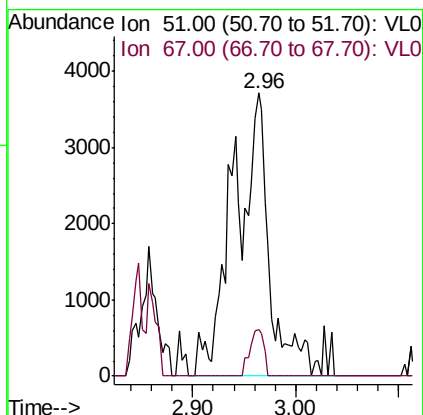
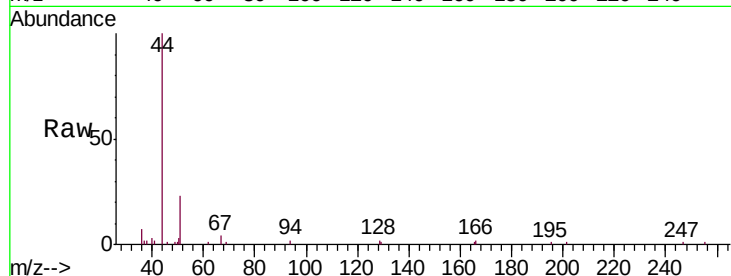




#3
Chlorodifluoromethane
Concen: 0.079 ppbv
RT: 2.96 min Scan# 55
Delta R.T. 0.00 min
Lab File: VL034352.D
Acq: 24 Oct 2019 18:50

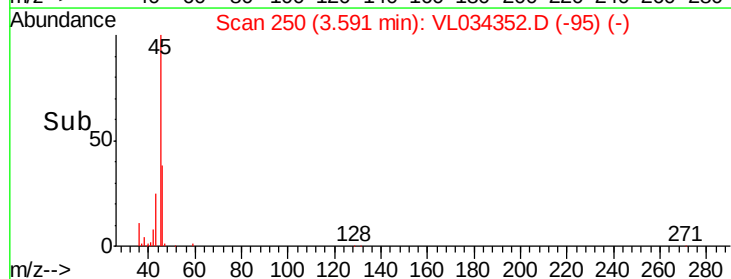
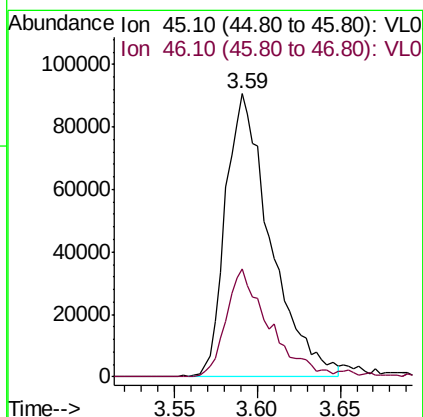
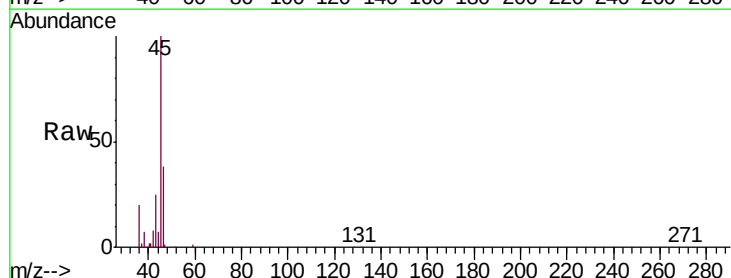
Instrument :
MSVOA_L
ClientSampleId :
SV-2

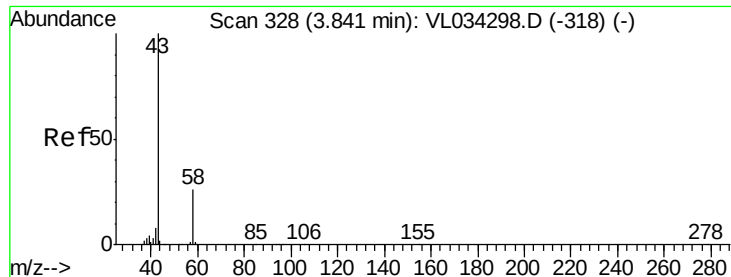
Tgt Ion: 51 Resp: 9163
Ion Ratio Lower Upper
51 100
67 6.3 15.8 23.8#



#13
Ethanol
Concen: 14.916 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.00 min
Lab File: VL034352.D
Acq: 24 Oct 2019 18:50

Tgt Ion: 45 Resp: 170741
Ion Ratio Lower Upper
45 100
46 37.6 15.8 63.2





#15

Acetone

Concen: 0.449 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL034352.D

Acq: 24 Oct 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

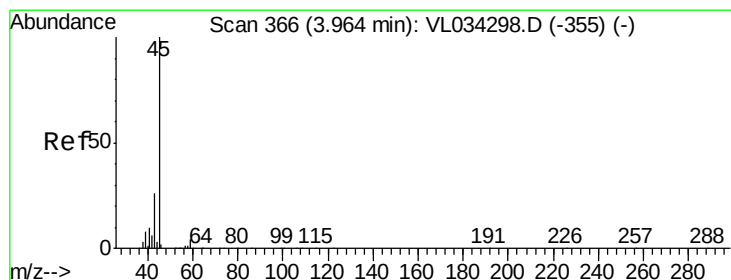
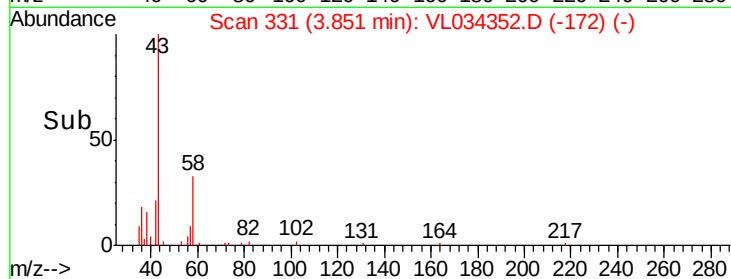
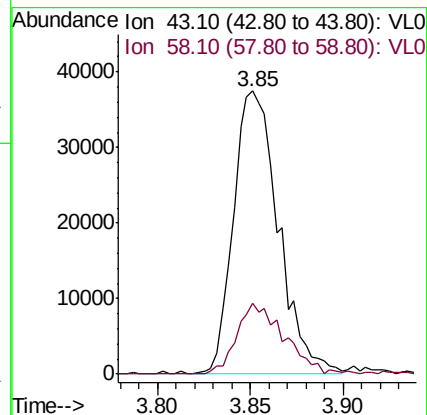
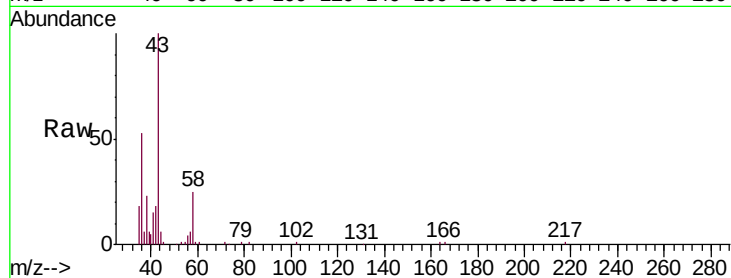
SV-2

Tgt Ion: 43 Resp: 63158

Ion Ratio Lower Upper

43 100

58 27.4 20.4 30.6



#19

Isopropyl Alcohol

Concen: 0.045 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.01 min

Lab File: VL034352.D

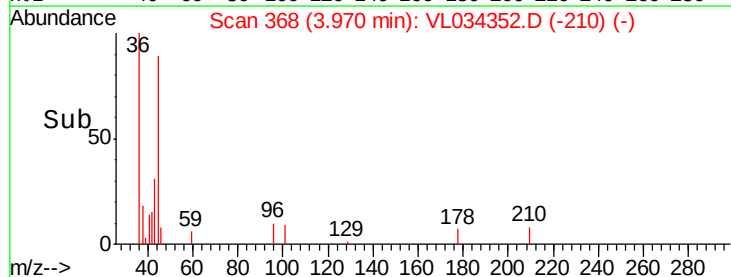
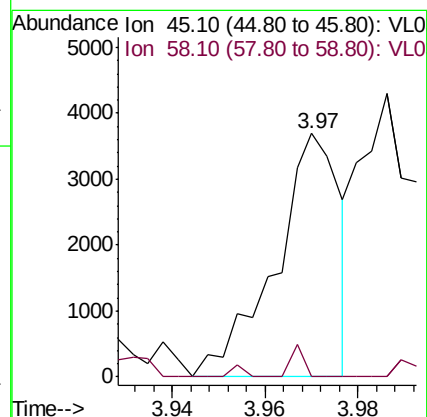
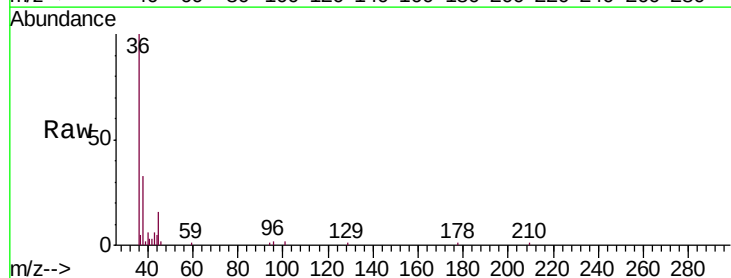
Acq: 24 Oct 2019 18:50

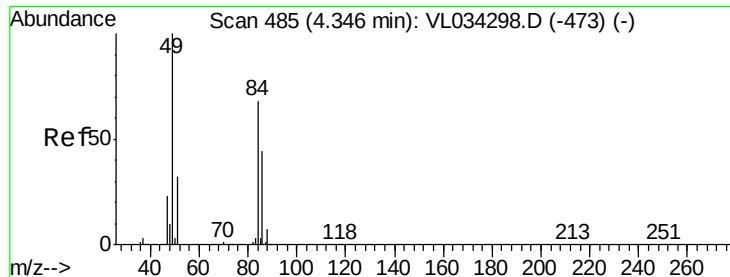
Tgt Ion: 45 Resp: 3570

Ion Ratio Lower Upper

45 100

58 471.8 1.4 2.2#

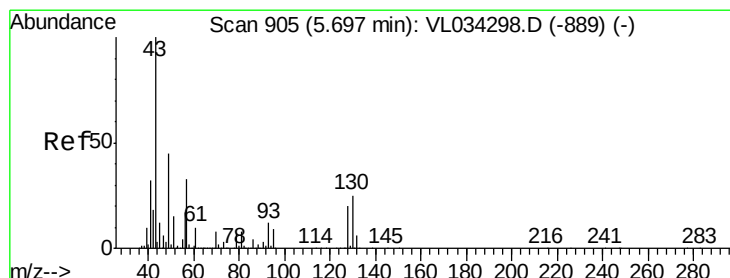
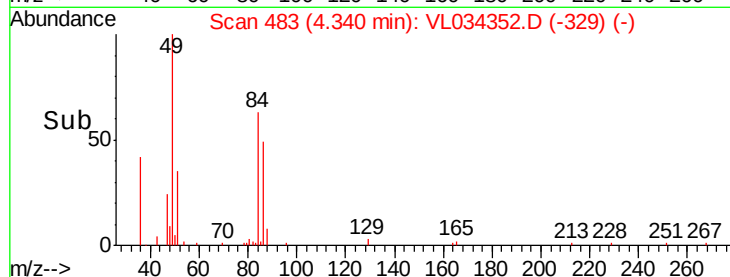
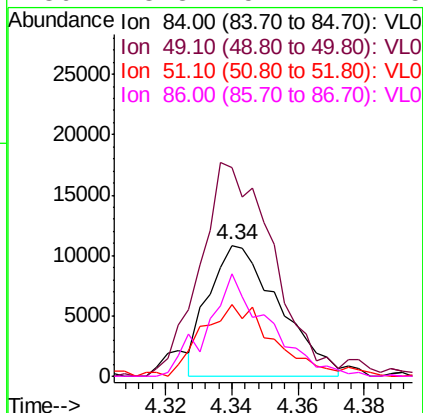
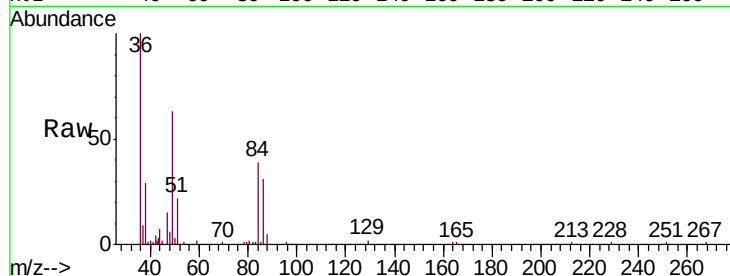




#20
Methylene Chloride
Concen: 0.314 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL034352.D
Acq: 24 Oct 2019 18:50

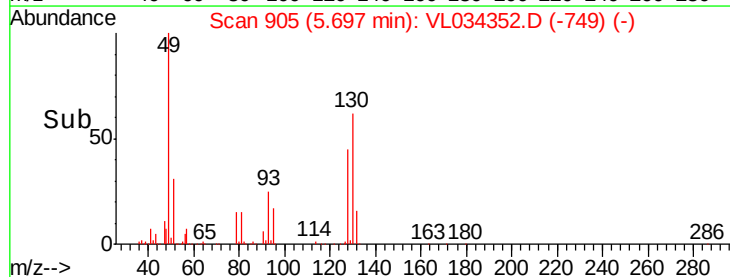
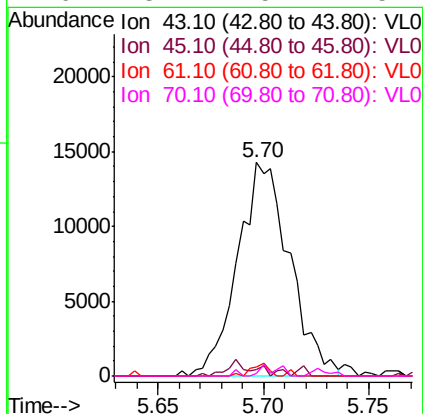
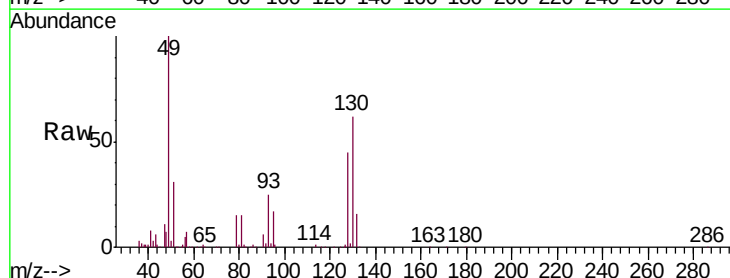
Instrument :
MSVOA_L
ClientSampled :
SV-2

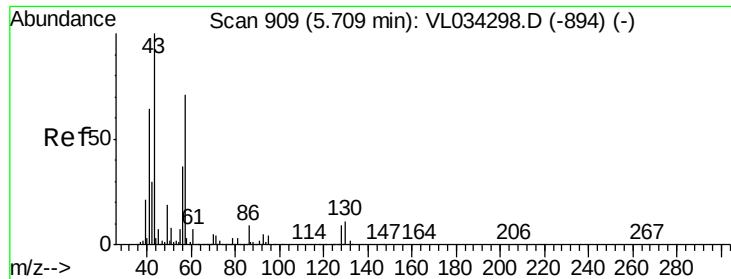
Tgt Ion:	84	Resp:	15986
Ion	Ratio	Lower	Upper
84	100		
49	170.2	118.5	177.7
51	52.7	38.8	58.2
86	78.3	51.7	77.5#



#25
Ethyl Acetate
Concen: 0.102 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL034352.D
Acq: 24 Oct 2019 18:50

Tgt Ion:	43	Resp:	24352
Ion	Ratio	Lower	Upper
43	100		
45	4.7	8.3	12.5#
61	2.3	7.7	11.5#
70	3.4	5.4	8.2#

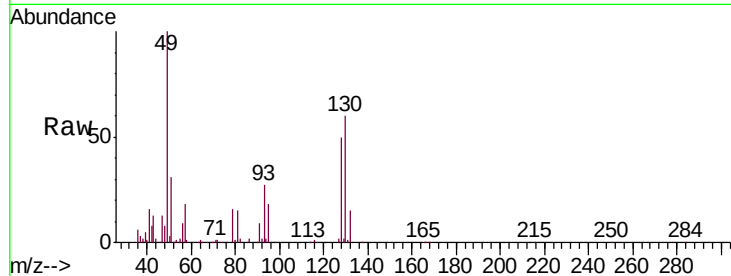




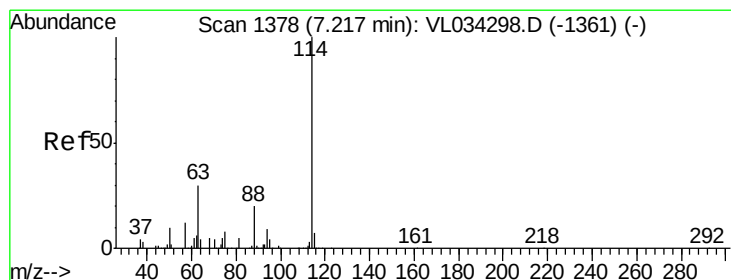
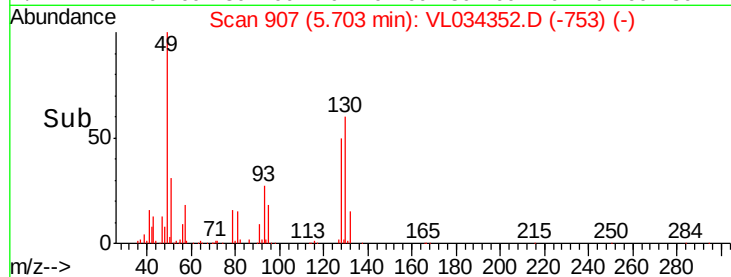
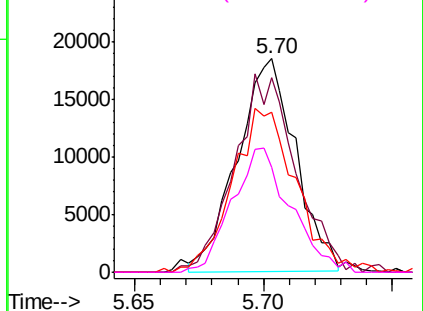
#26
Hexane
Concen: 0.287 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL034352.D
Acq: 24 Oct 2019 18:50

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tgt Ion:	57	Resp:	29070
Ion	Ratio	Lower	Upper
57	100		
41	98.9	76.5	114.7
43	85.9	188.5	282.7#
56	58.8	42.8	64.2

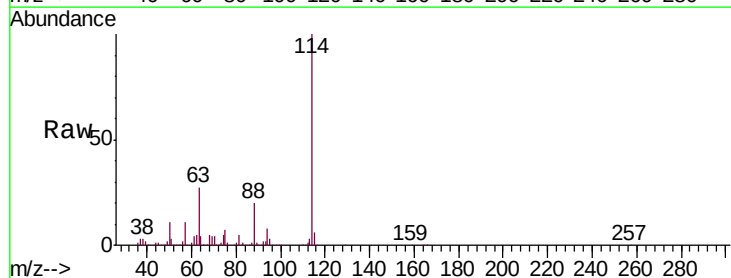


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

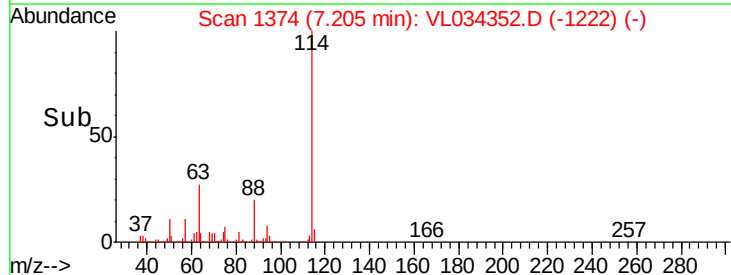
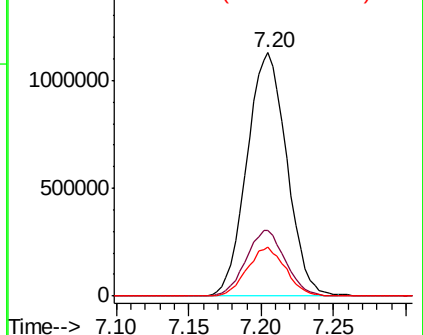


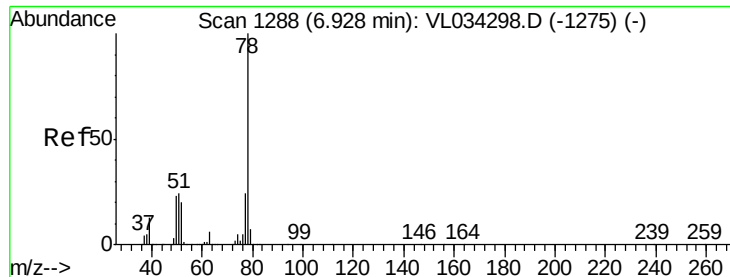
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1374
Delta R.T. -0.01 min
Lab File: VL034352.D
Acq: 24 Oct 2019 18:50

Tgt Ion:	114	Resp:	2163575
Ion	Ratio	Lower	Upper
114	100		
63	26.7	25.2	37.8
88	19.4	16.0	24.0



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





#36

Benzene

Concen: 0.063 ppbv

RT: 6.92 min Scan# 1286

Delta R.T. -0.01 min

Lab File: VL034352.D

Acq: 24 Oct 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

SV-2

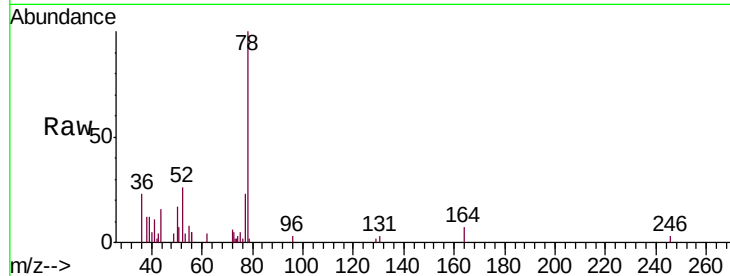
Tgt Ion: 78 Resp: 13137

Ion Ratio Lower Upper

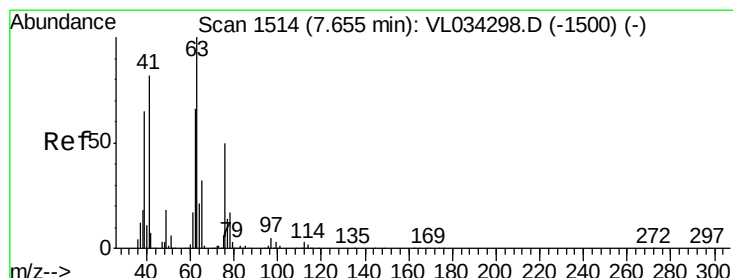
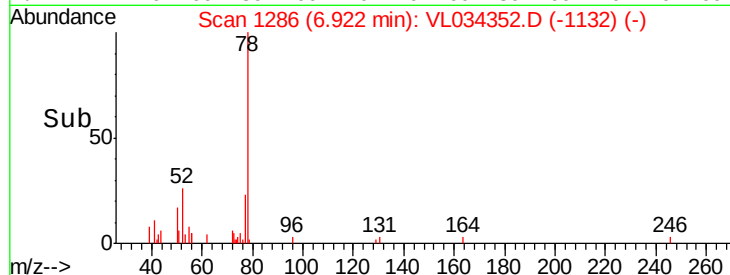
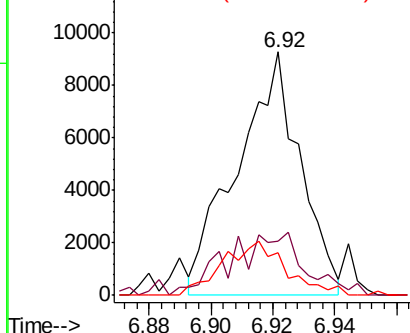
78 100

77 20.3 19.0 28.4

50 14.3 18.6 27.8#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 6.430 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. -0.45 min

Lab File: VL034352.D

Acq: 24 Oct 2019 18:50

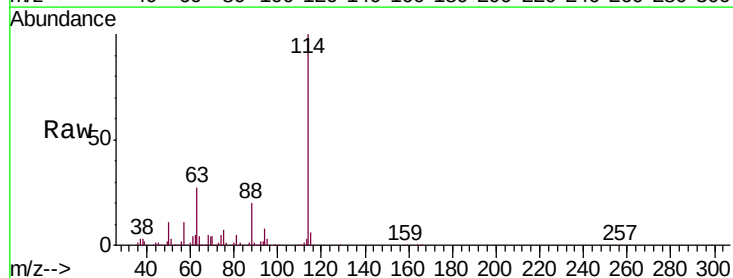
Tgt Ion: 63 Resp: 574784

Ion Ratio Lower Upper

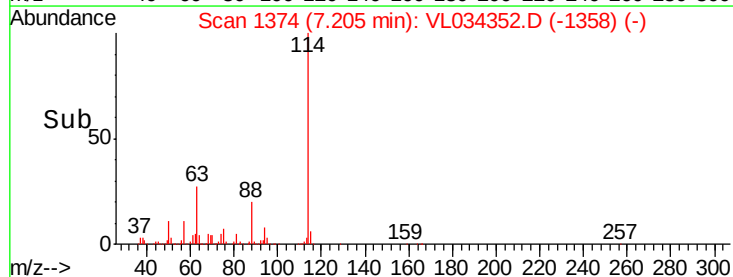
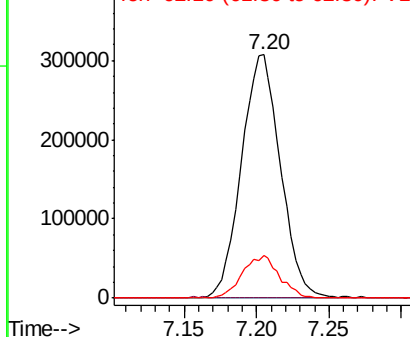
63 100

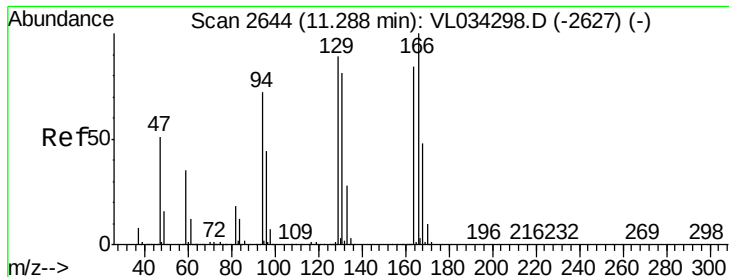
41 0.0 65.6 98.4#

62 17.3 53.0 79.6#



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: 0.059 ppbv

RT: 11.26 min Scan# 2636

Delta R.T. -0.03 min

Lab File: VL034352.D

Acq: 24 Oct 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion:164 Resp: 4830

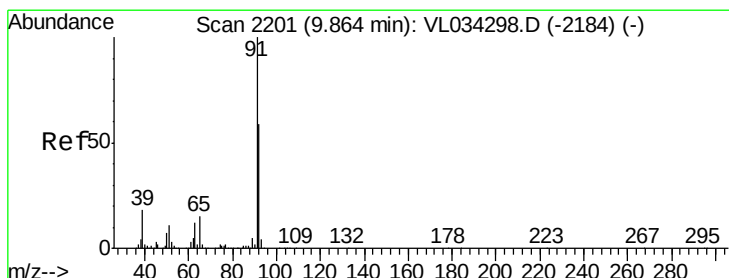
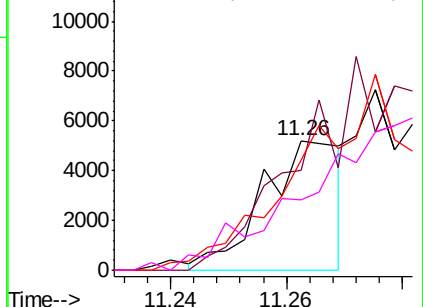
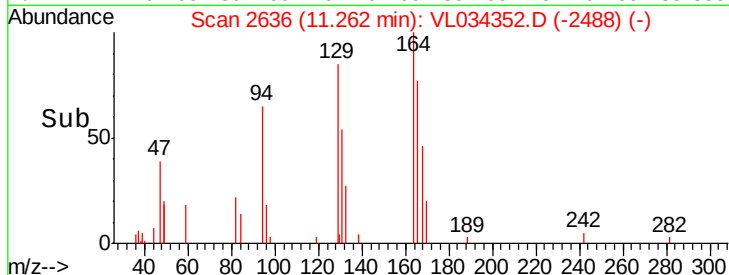
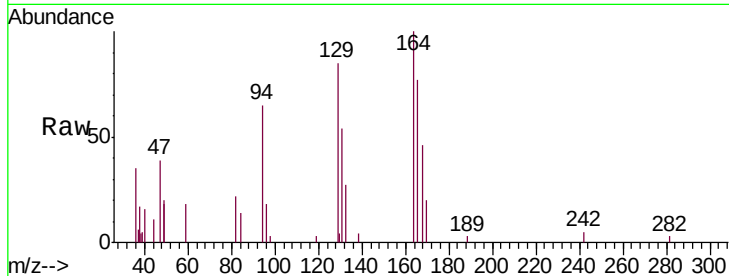
Ion Ratio Lower Upper

164 100

166 81.3 95.3 142.9#

129 82.4 84.5 126.7#

131 45.1 77.3 115.9#



#53

Toluene

Concen: 0.261 ppbv

RT: 9.85 min Scan# 2197

Delta R.T. -0.01 min

Lab File: VL034352.D

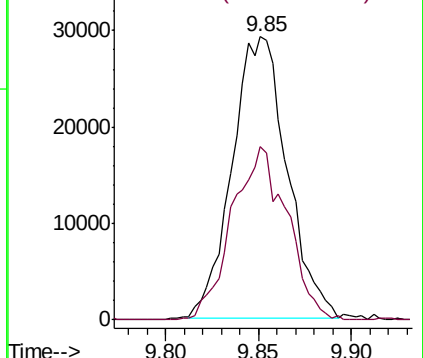
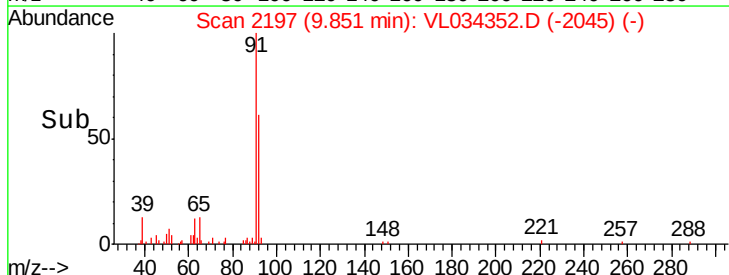
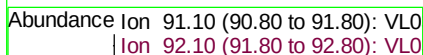
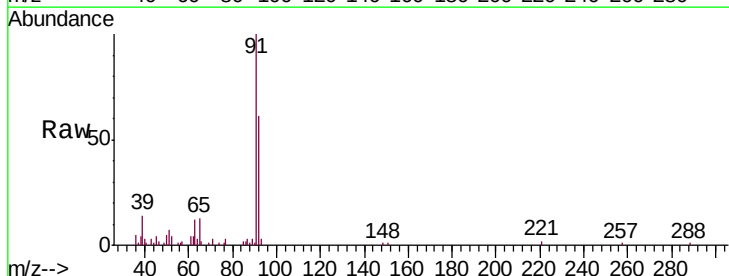
Acq: 24 Oct 2019 18:50

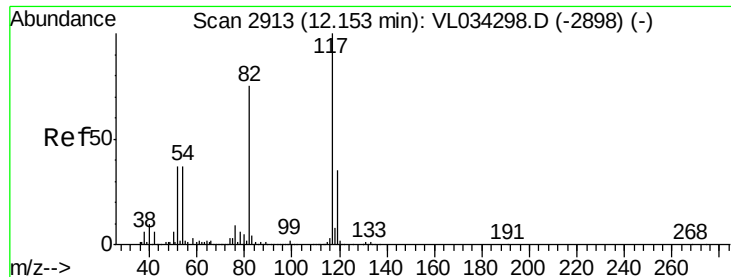
Tgt Ion: 91 Resp: 59737

Ion Ratio Lower Upper

91 100

92 61.8 48.4 72.6

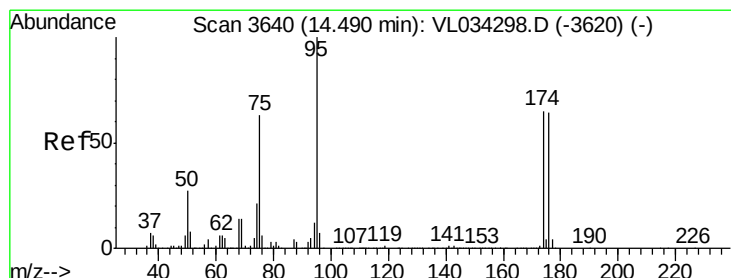
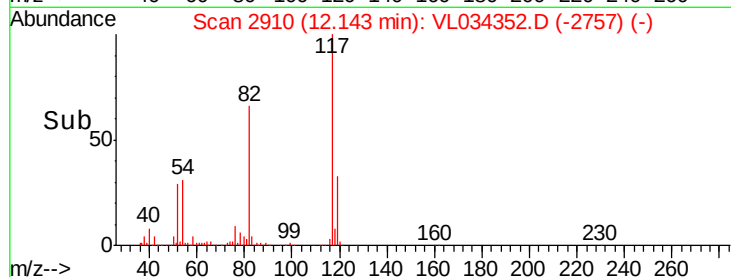
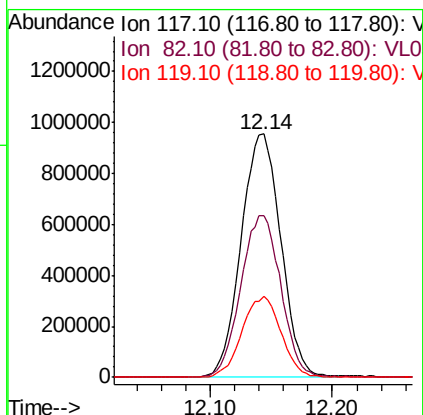
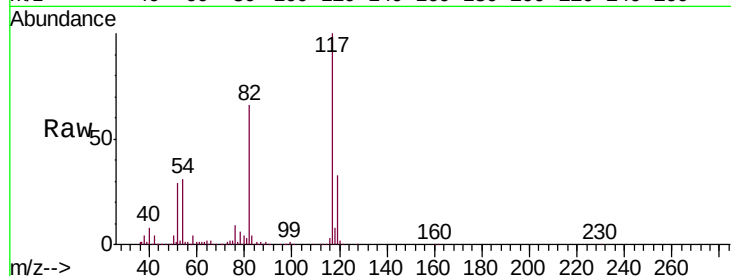




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL034352.D
Acq: 24 Oct 2019 18:50

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tgt Ion: 117 Resp: 2151213
Ion Ratio Lower Upper
117 100
82 67.3 55.5 83.3
119 32.9 26.5 39.7



#68
1-Bromo-4-Fluorobenzene
Concen: 9.387 ppbv
RT: 14.48 min Scan# 3637
Delta R.T. -0.01 min
Lab File: VL034352.D
Acq: 24 Oct 2019 18:50

Tgt Ion: 95 Resp: 1710277
Ion Ratio Lower Upper
95 100
174 71.2 52.6 78.8
175 5.4 3.8 5.6

