

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120919\
 Data File : VL034476.D
 Acq On : 9 Dec 2019 22:47
 Operator : SY/AP
 Sample : K6195-05
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-TE

Quant Time: Dec 10 03:41:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	792824	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1584151	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1592050	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1366510	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

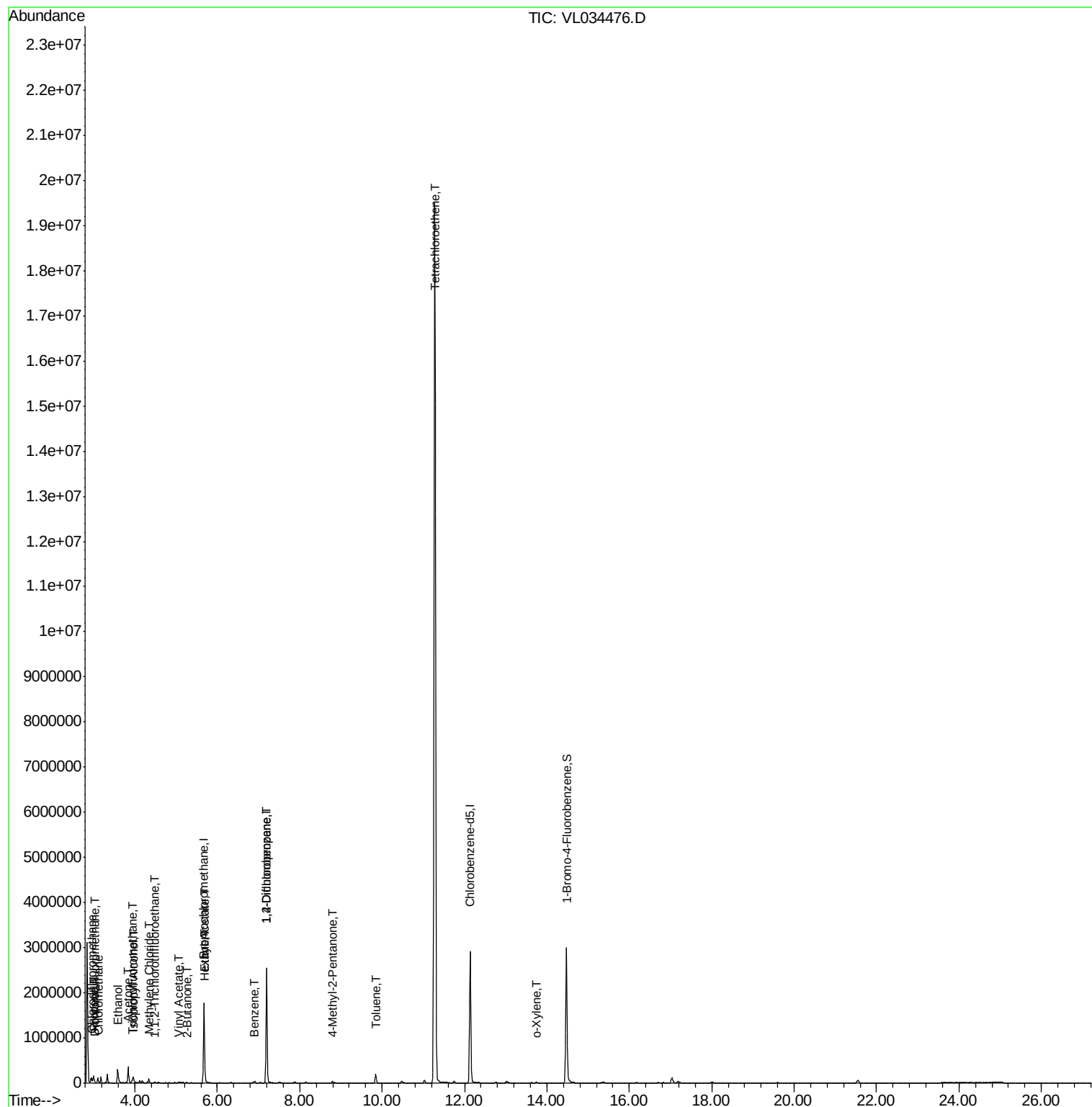
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	35564	0.248	ppbv	99
3) Chlorodifluoromethane	2.96	51	139325	1.408	ppbv #	88
4) Chloromethane	3.11	50	26214	0.449	ppbv #	86
9) Propene	2.99	41	26576	0.605	ppbv #	78
11) Trichlorofluoromethane	3.94	101	14813	0.104	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4269	0.045	ppbv #	54
13) Ethanol	3.58	45	307015	25.096	ppbv	97
15) Acetone	3.84	43	340630	3.000	ppbv	99
19) Isopropyl Alcohol	3.96	45	134052	1.842	ppbv #	94
20) Methylene Chloride	4.34	84	27836	0.691	ppbv #	87
23) Vinyl Acetate	5.07	43	5520	0.037	ppbv #	47
25) Ethyl Acetate	5.69	43	41032	0.203	ppbv #	85
26) Hexane	5.69	57	46218	0.531	ppbv #	41
34) 2-Butanone	5.25	43	19232	0.147	ppbv	94
36) Benzene	6.91	78	18140	0.115	ppbv #	84
39) 1,2-Dichloropropane	7.19	63	477729	7.831	ppbv #	24
50) 4-Methyl-2-Pentanone	8.79	43	11893	0.063	ppbv #	42
52) Tetrachloroethene	11.28	164	5806970	84.751	ppbv	88
53) Toluene	9.84	91	145542	0.809	ppbv	94
60) o-Xylene	13.75	91	15722	0.074	ppbv	99

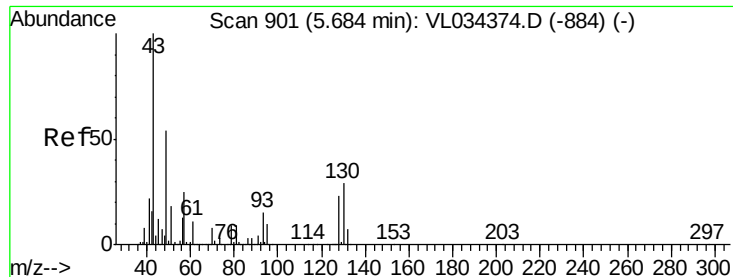
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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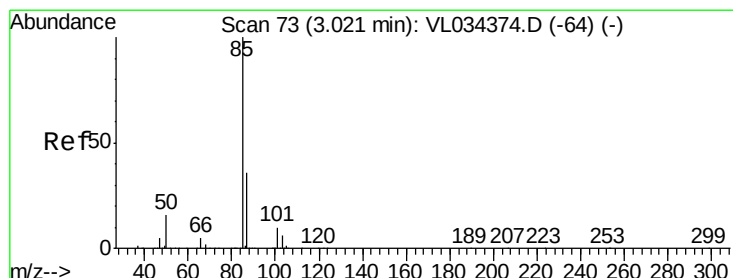
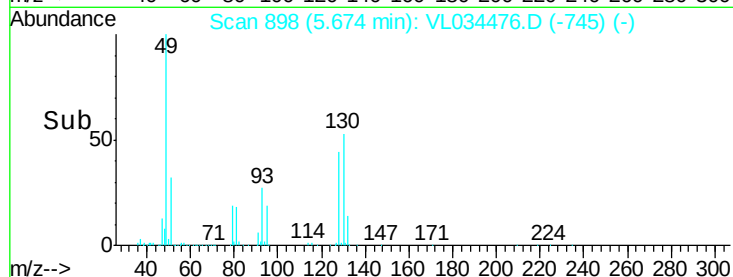
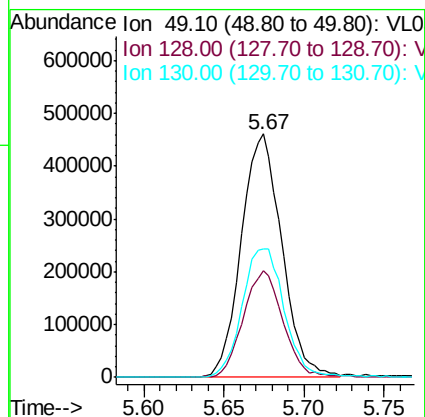
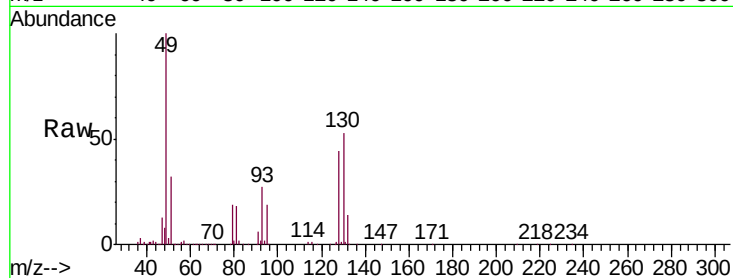




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: VL034476.D
 Acq: 9 Dec 2019 22:47

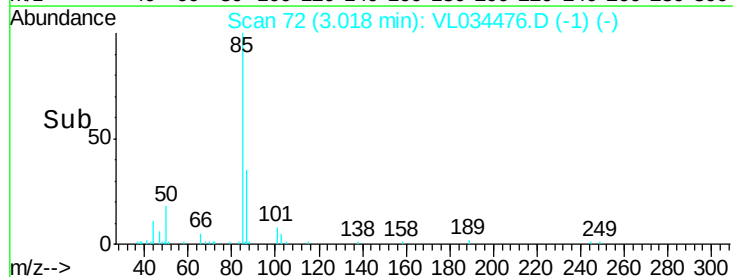
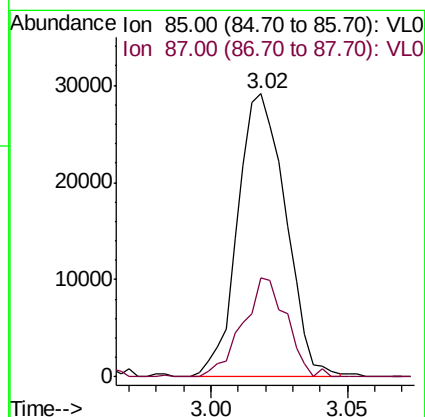
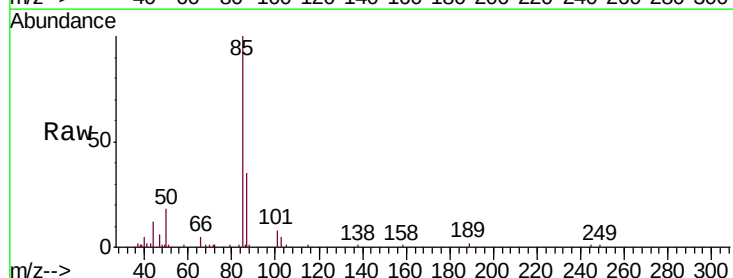
Instrument :
 MSVOA_L
 ClientSampleId :
 1A-TE

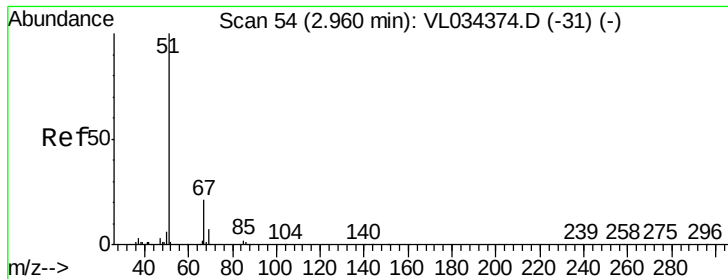
Tgt Ion: 49 Resp: 792824
 Ion Ratio Lower Upper
 49 100
 128 43.5 21.8 65.3
 130 55.6 28.0 84.0



#2
 Dichlorodifluoromethane
 Concen: 0.248 ppbv
 RT: 3.02 min Scan# 72
 Delta R.T. -0.00 min
 Lab File: VL034476.D
 Acq: 9 Dec 2019 22:47

Tgt Ion: 85 Resp: 35564
 Ion Ratio Lower Upper
 85 100
 87 35.0 28.5 42.7





#3

Chlorodifluoromethane

Concen: 1.408 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

Instrument :

MSVOA_L

ClientSampleId :

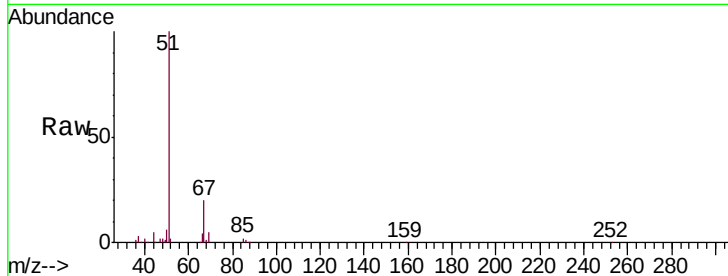
1A-TE

Tgt Ion: 51 Resp: 139325

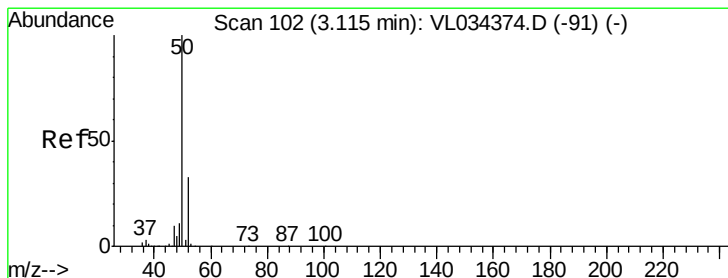
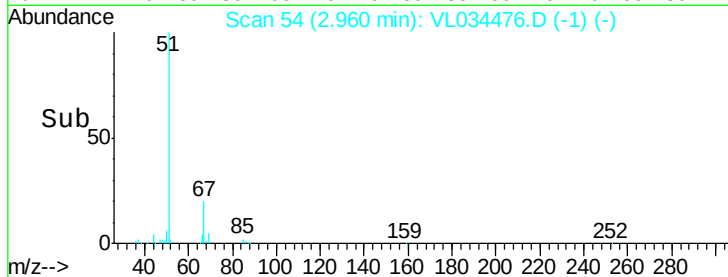
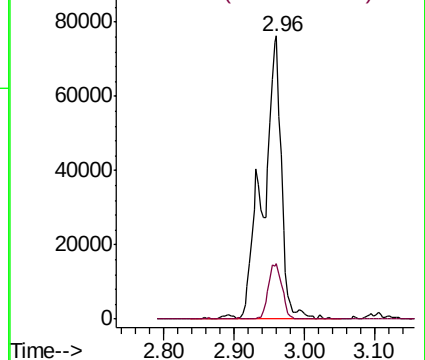
Ion Ratio Lower Upper

51 100

67 14.7 16.2 24.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.449 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.00 min

Lab File: VL034476.D

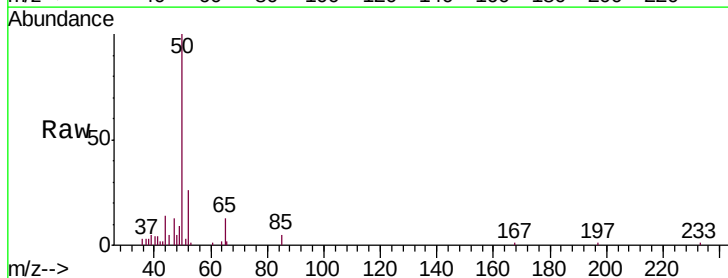
Acq: 9 Dec 2019 22:47

Tgt Ion: 50 Resp: 26214

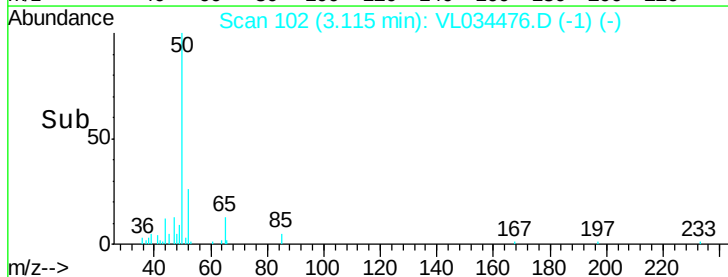
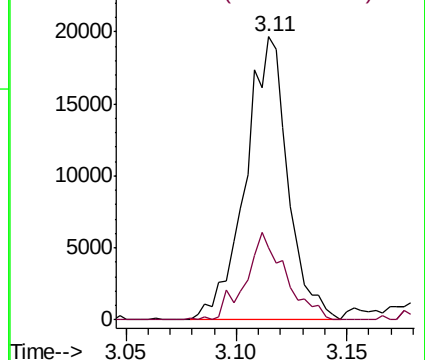
Ion Ratio Lower Upper

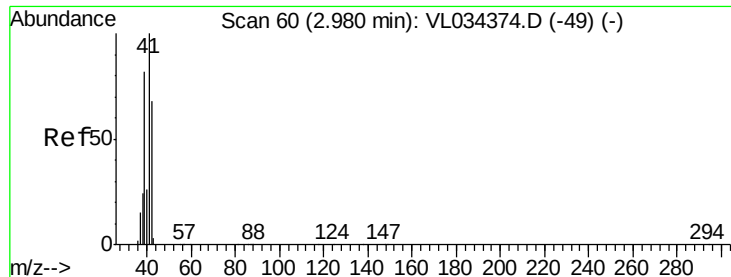
50 100

52 25.6 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.605 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

Instrument :

MSVOA_L

ClientSampleId :

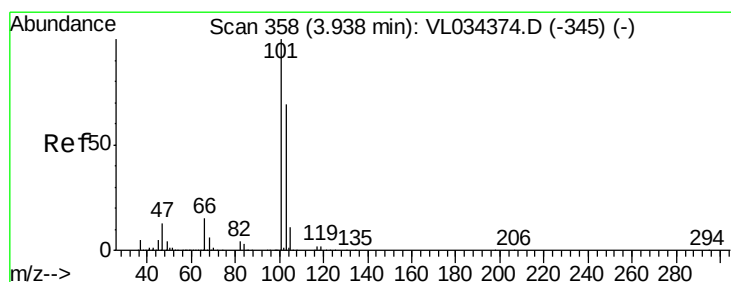
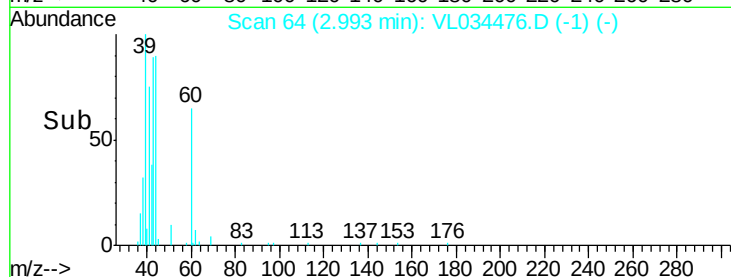
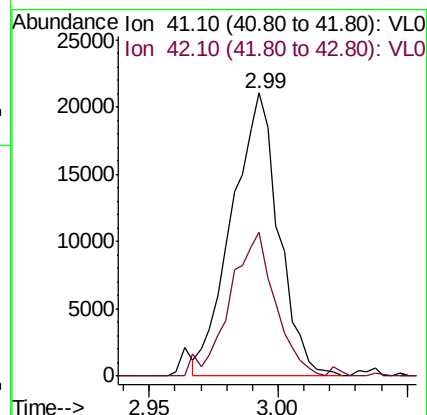
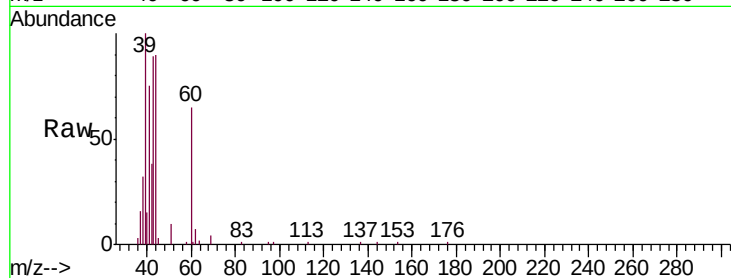
1A-TE

Tgt Ion: 41 Resp: 26576

Ion Ratio Lower Upper

41 100

42 50.1 54.6 82.0#



#11

Trichlorofluoromethane

Concen: 0.104 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.00 min

Lab File: VL034476.D

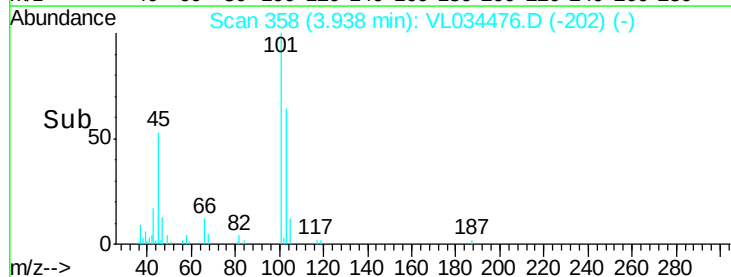
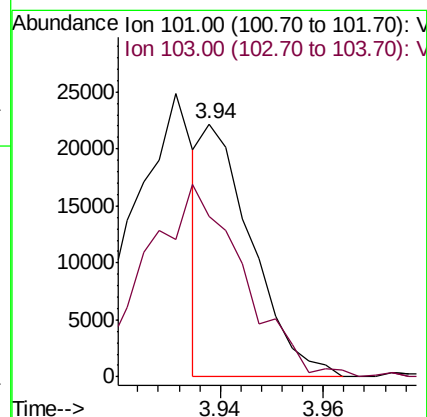
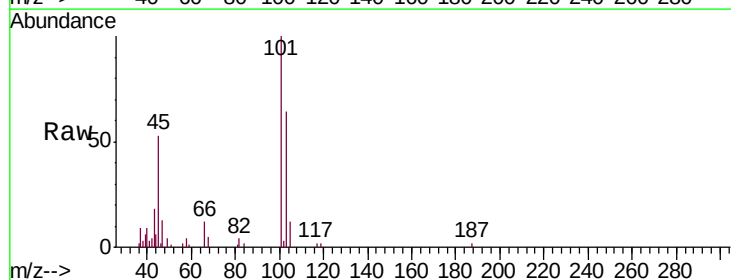
Acq: 9 Dec 2019 22:47

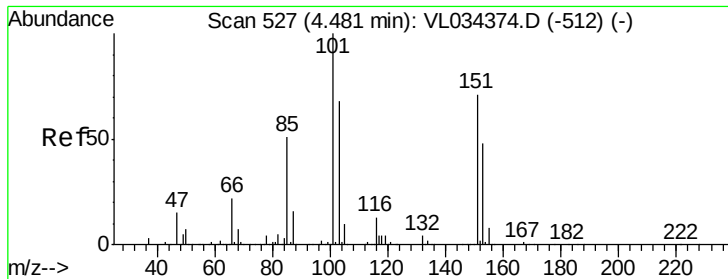
Tgt Ion: 101 Resp: 14813

Ion Ratio Lower Upper

101 100

103 60.7 55.4 83.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.045 ppbv

RT: 4.48 min Scan# 527

Delta R.T. 0.00 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

Instrument :

MSVOA_L

ClientSampleId :

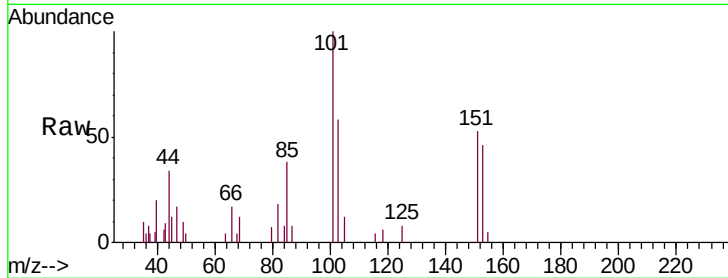
1A-TE

Tgt Ion: 101 Resp: 4269

Ion Ratio Lower Upper

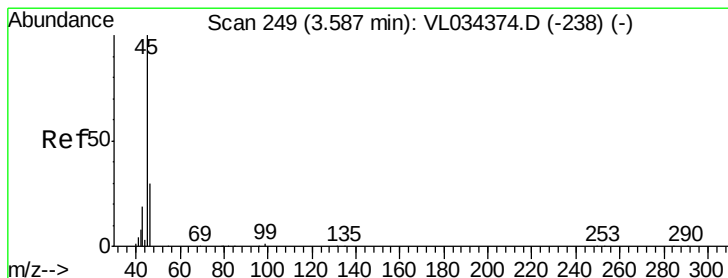
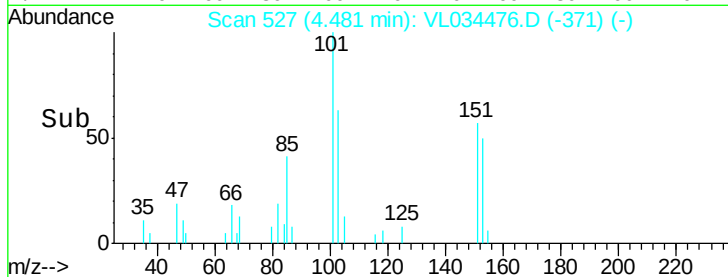
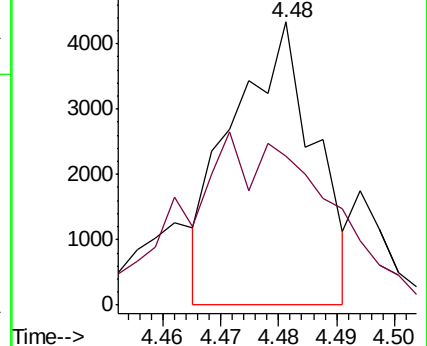
101 100

151 110.0 57.4 86.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 25.096 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL034476.D

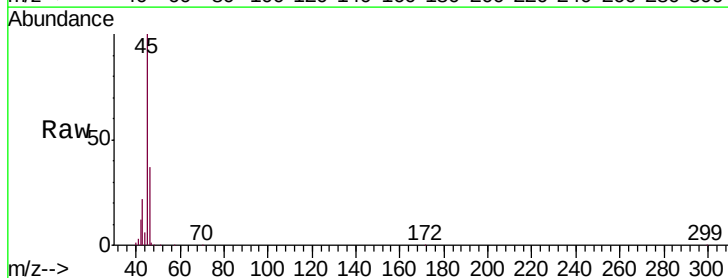
Acq: 9 Dec 2019 22:47

Tgt Ion: 45 Resp: 307015

Ion Ratio Lower Upper

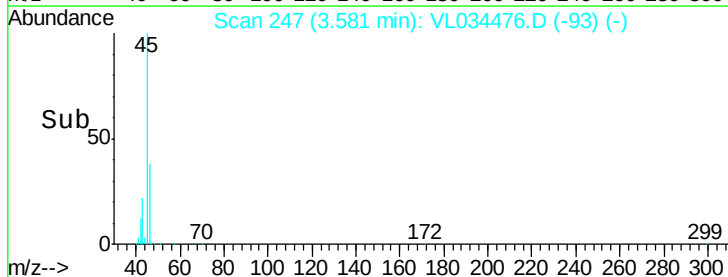
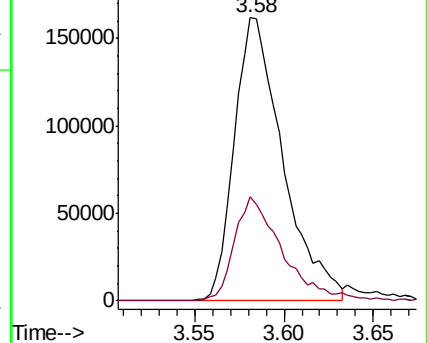
45 100

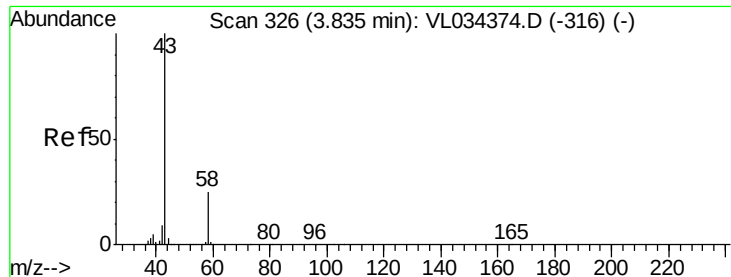
46 36.3 13.8 55.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 3.000 ppbv

RT: 3.84 min Scan# 326

Delta R.T. 0.00 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

Instrument :

MSVOA_L

ClientSampleId :

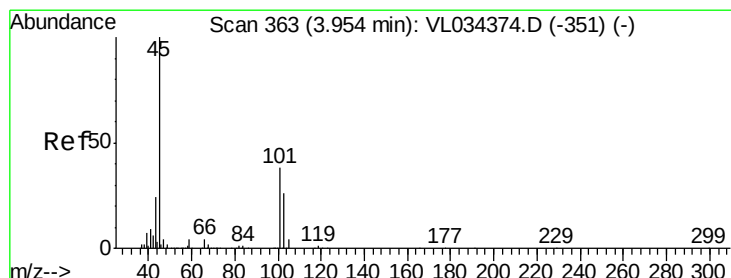
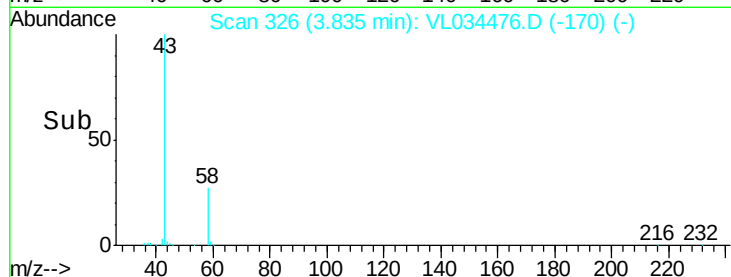
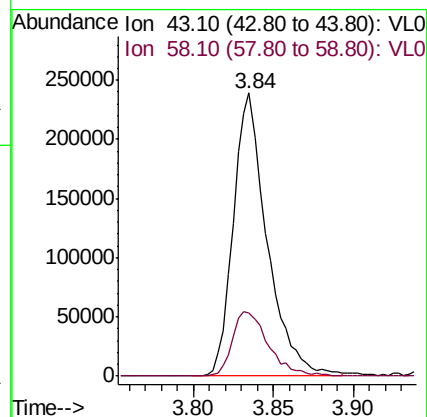
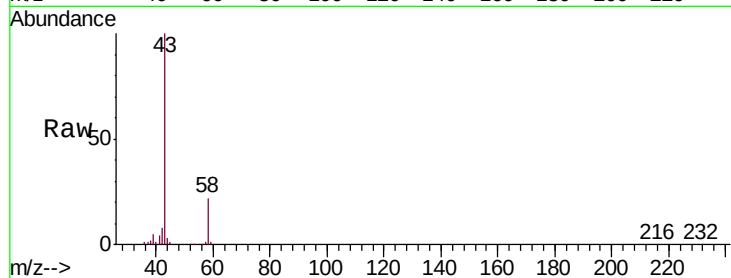
1A-TE

Tgt Ion: 43 Resp: 340630

Ion Ratio Lower Upper

43 100

58 24.7 20.2 30.4



#19

Isopropyl Alcohol

Concen: 1.842 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL034476.D

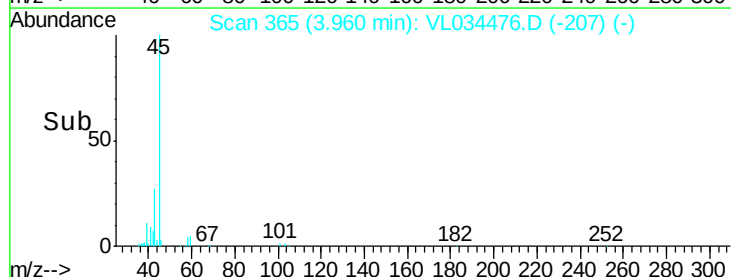
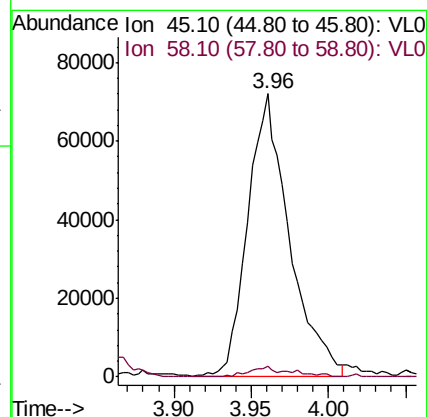
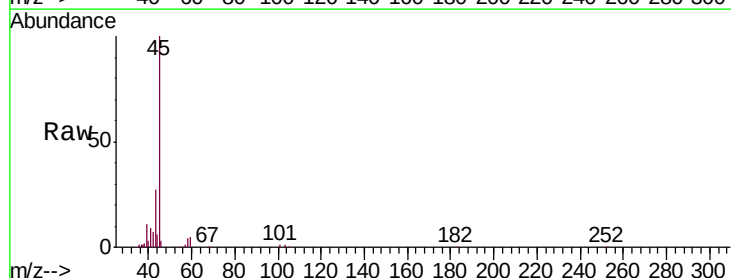
Acq: 9 Dec 2019 22:47

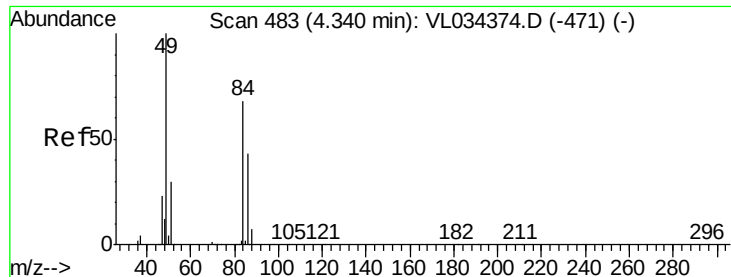
Tgt Ion: 45 Resp: 134052

Ion Ratio Lower Upper

45 100

58 3.7 1.3 1.9#

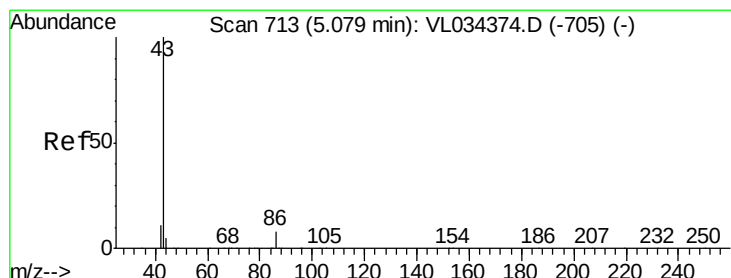
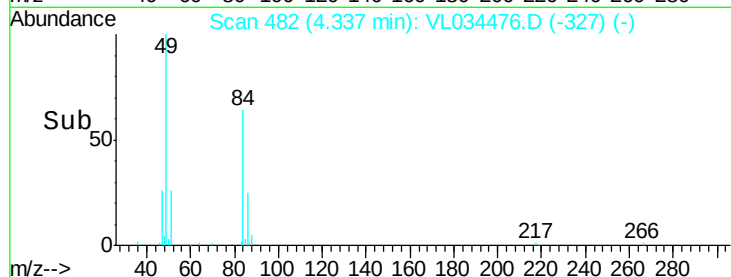
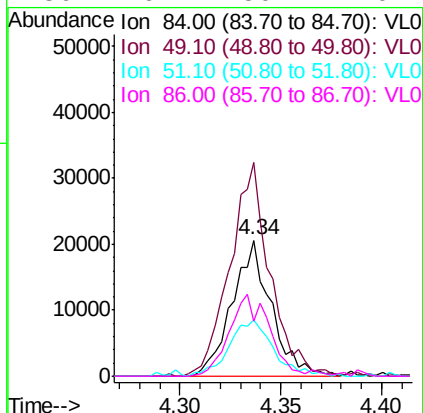
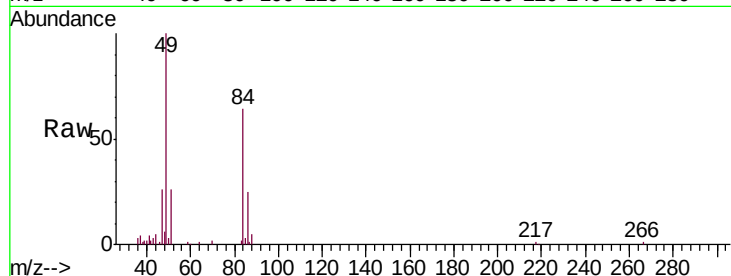




#20
Methylene Chloride
Concen: 0.691 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

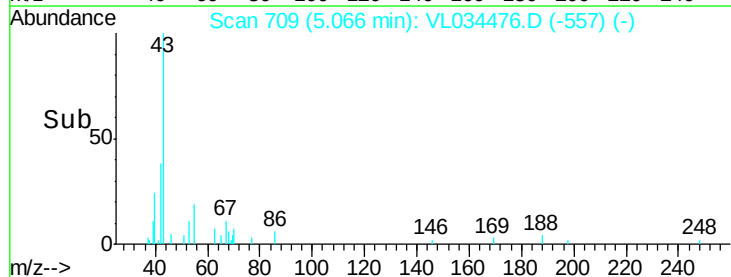
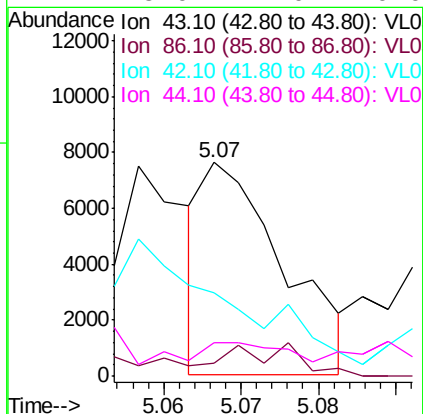
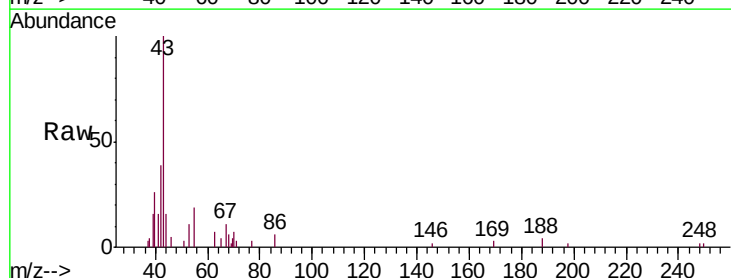
Instrument :
MSVOA_L
ClientSampled :
1A-TE

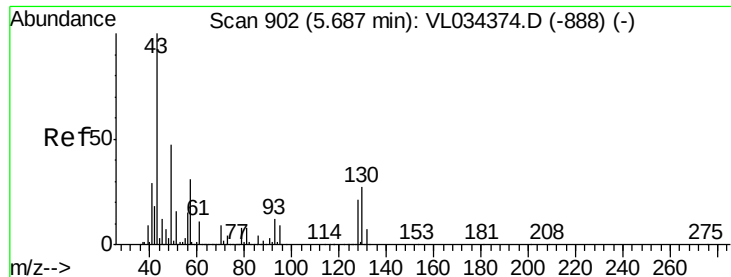
Tgt Ion: 84 Resp: 27836
Ion Ratio Lower Upper
84 100
49 155.4 116.8 175.2
51 41.7 35.6 53.4
86 40.1 50.7 76.1#



#23
Vinyl Acetate
Concen: 0.037 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Tgt Ion: 43 Resp: 5520
Ion Ratio Lower Upper
43 100
86 4.5 5.8 8.6#
42 46.4 8.9 13.3#
44 15.0 4.0 6.0#

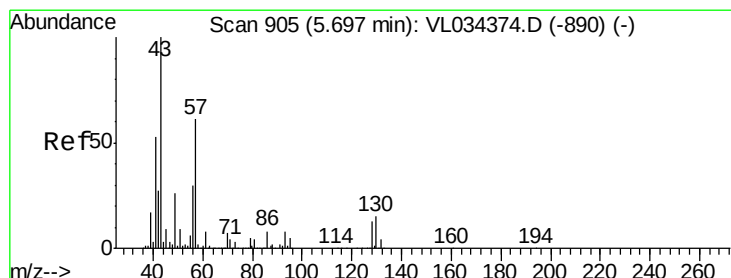
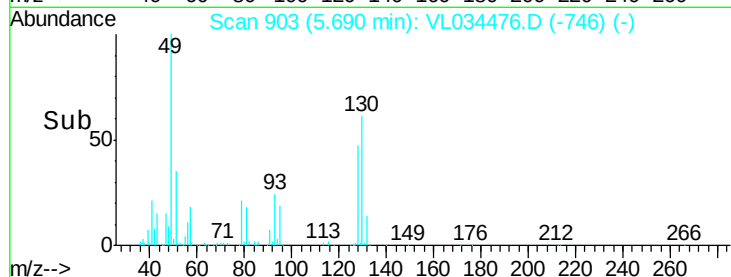
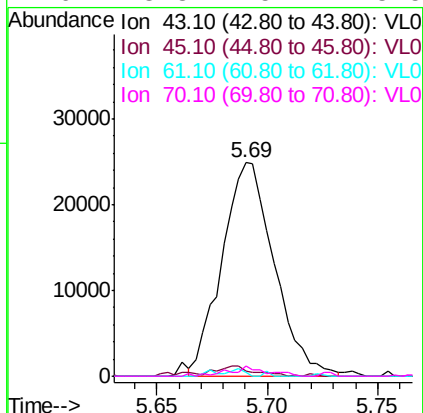
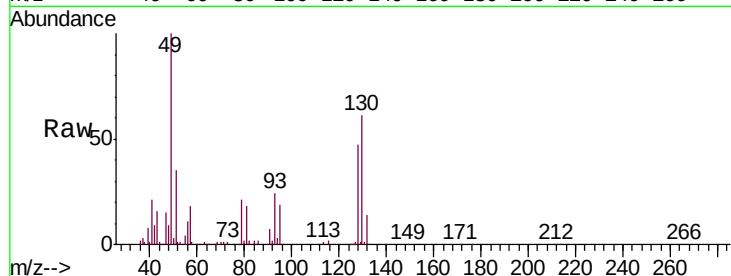




#25
Ethyl Acetate
Concen: 0.203 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

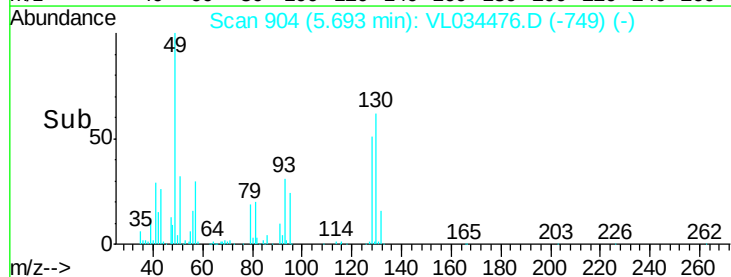
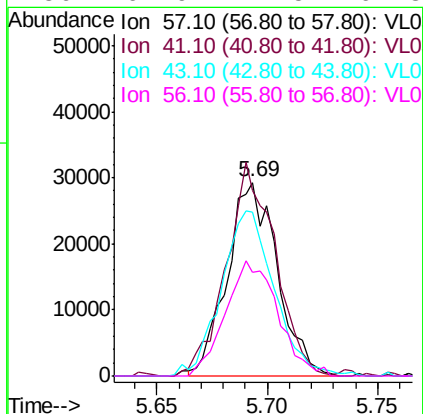
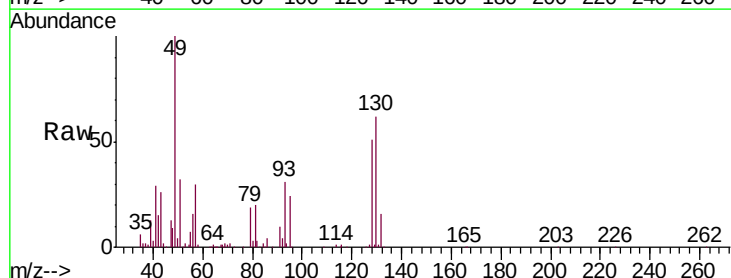
Instrument :
MSVOA_L
ClientSampleId :
1A-TE

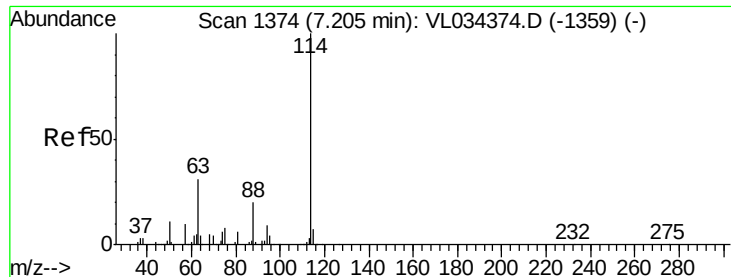
Tgt Ion:	43	Resp:	41032
Ion	Ratio	Lower	Upper
43	100		
45	4.8	8.2	12.4#
61	1.8	7.5	11.3#
70	3.8	5.7	8.5#



#26
Hexane
Concen: 0.531 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Tgt Ion:	57	Resp:	46218
Ion	Ratio	Lower	Upper
57	100		
41	109.4	75.0	112.4
43	90.8	186.6	279.8#
56	61.9	41.5	62.3

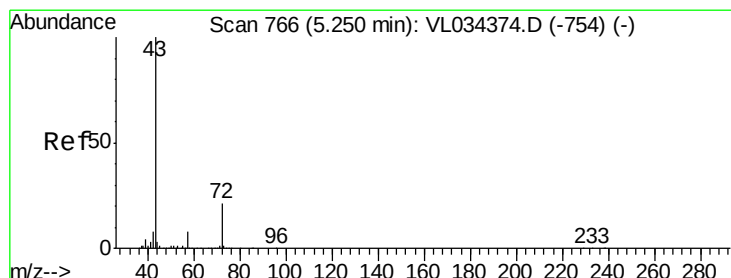
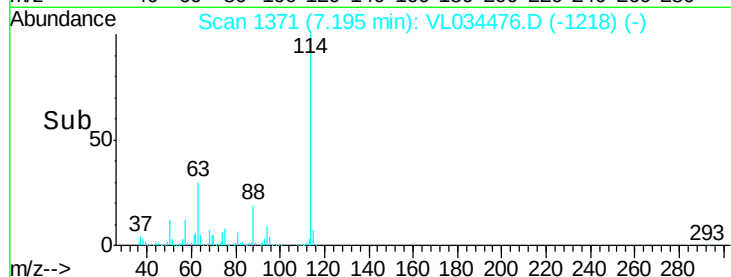
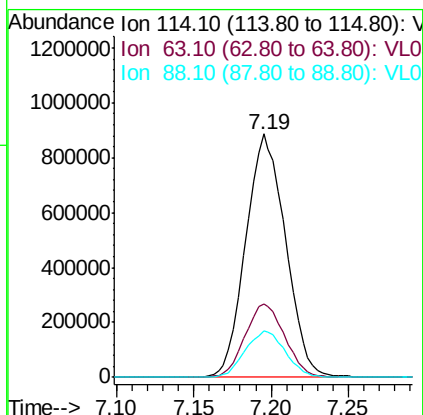
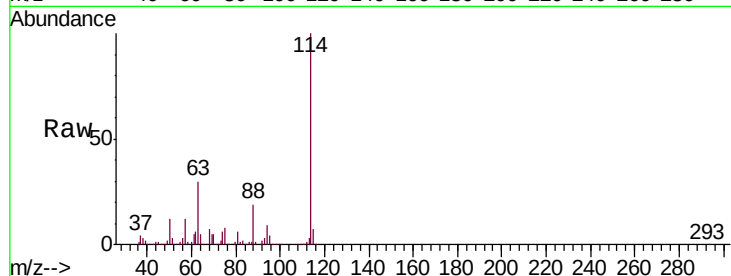




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.01 min
 Lab File: VL034476.D
 Acq: 9 Dec 2019 22:47

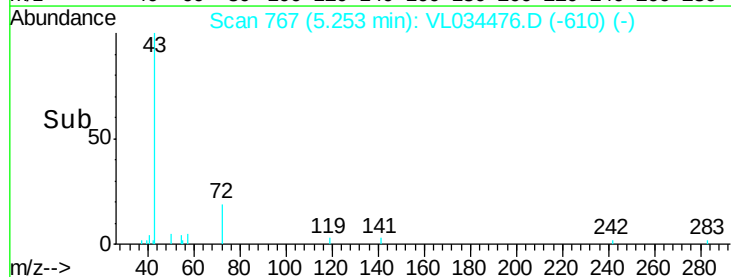
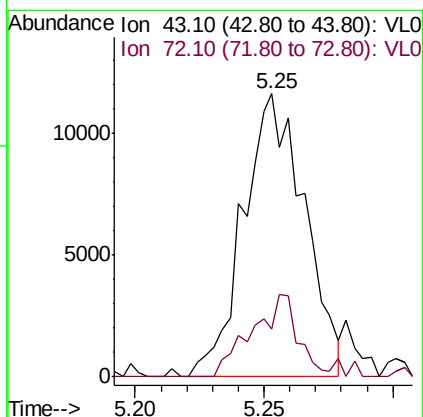
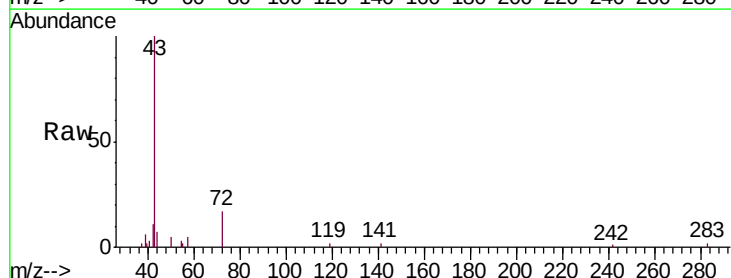
Instrument :
 MSVOA_L
 ClientSampleId :
 1A-TE

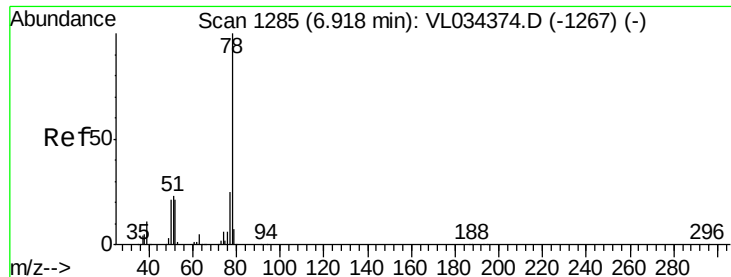
Tgt Ion:114 Resp: 1584151
 Ion Ratio Lower Upper
 114 100
 63 30.3 24.2 36.4
 88 19.4 15.9 23.9



#34
 2-Butanone
 Concen: 0.147 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL034476.D
 Acq: 9 Dec 2019 22:47

Tgt Ion: 43 Resp: 19232
 Ion Ratio Lower Upper
 43 100
 72 24.1 17.0 25.6





#36

Benzene

Concen: 0.115 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

Instrument :

MSVOA_L

ClientSampleId :

1A-TE

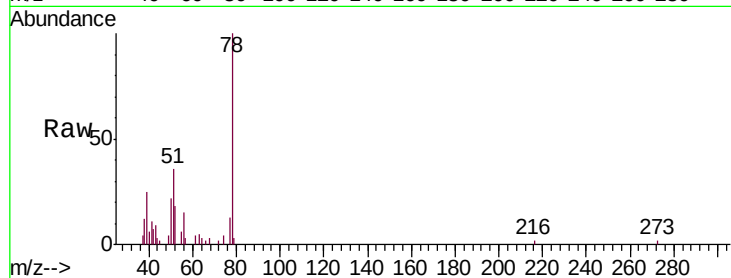
Tgt Ion: 78 Resp: 18140

Ion Ratio Lower Upper

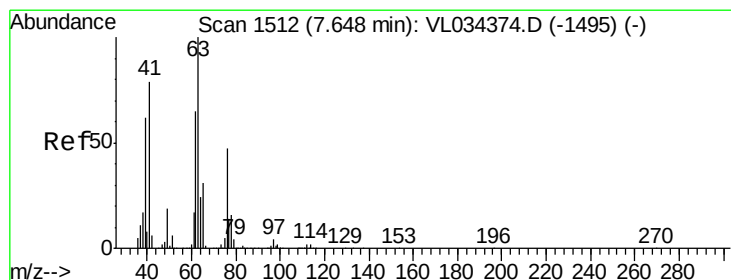
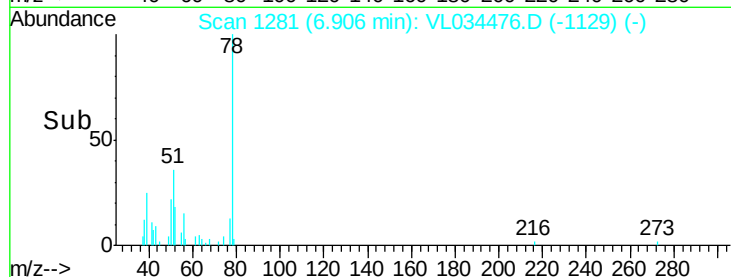
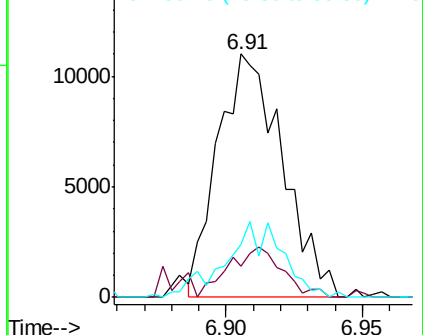
78 100

77 12.9 20.2 30.4#

50 19.1 17.1 25.7



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: 7.831 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. -0.45 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

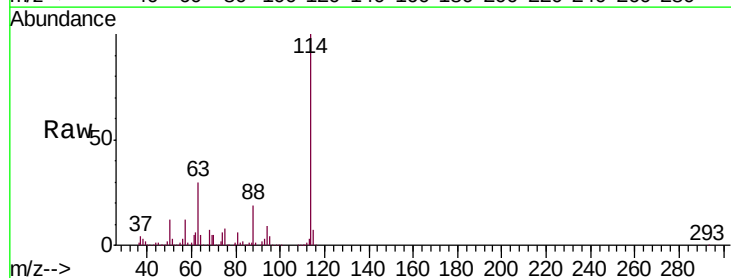
Tgt Ion: 63 Resp: 477729

Ion Ratio Lower Upper

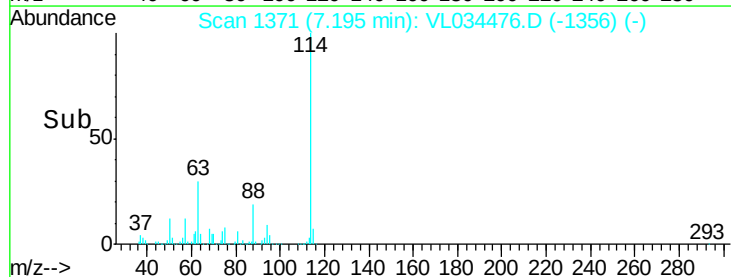
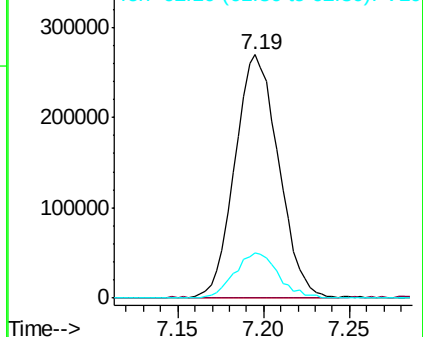
63 100

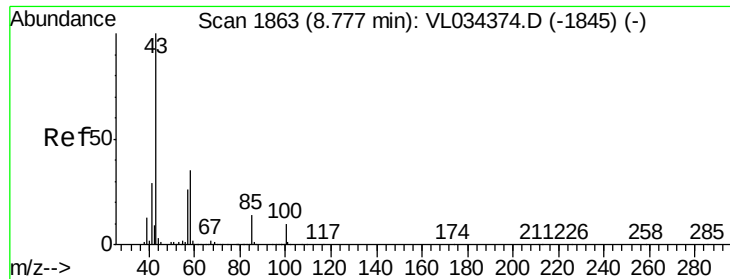
41 0.0 63.1 94.7#

62 18.6 52.3 78.5#



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

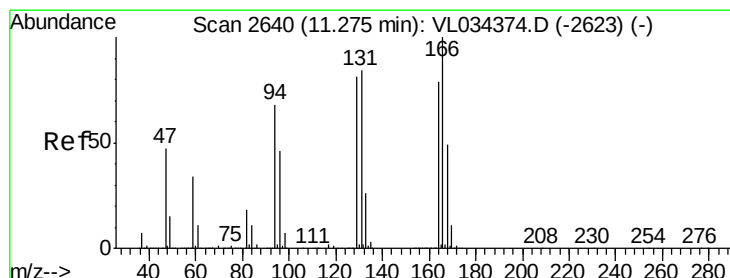
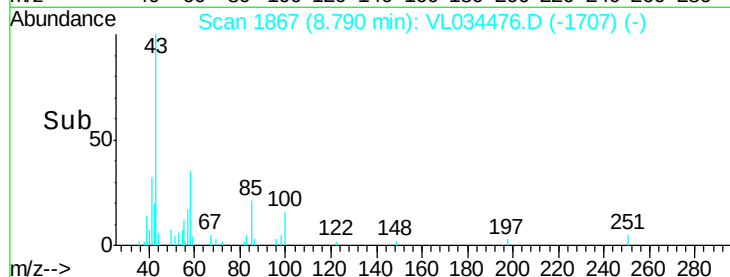
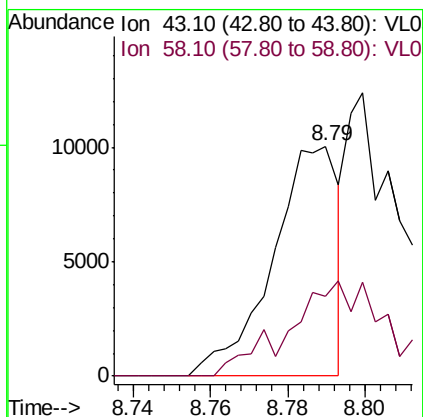
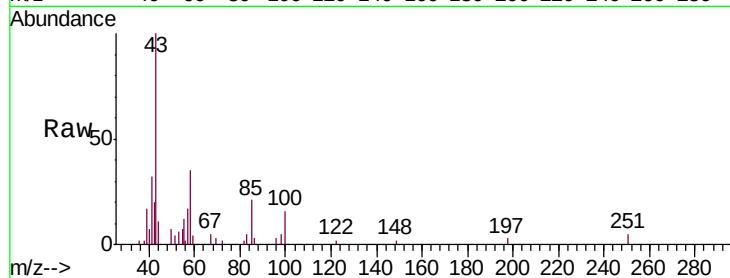




#50
4-Methyl-2-Pentanone
Concen: 0.063 ppbv
RT: 8.79 min Scan# 1867
Delta R.T. 0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

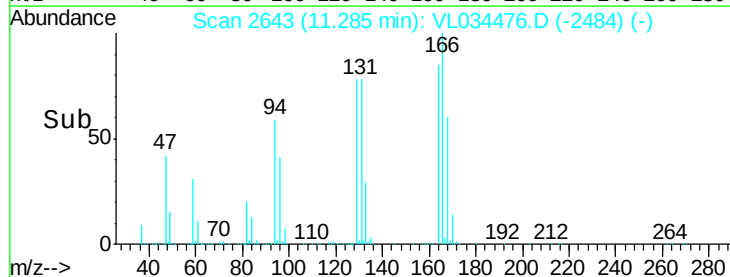
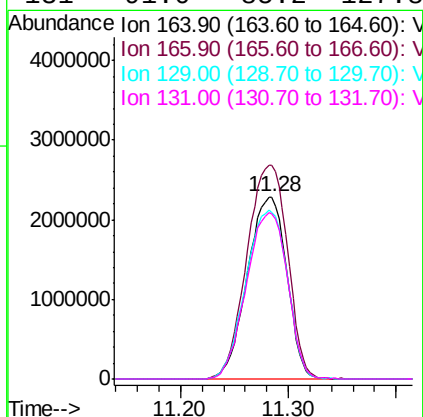
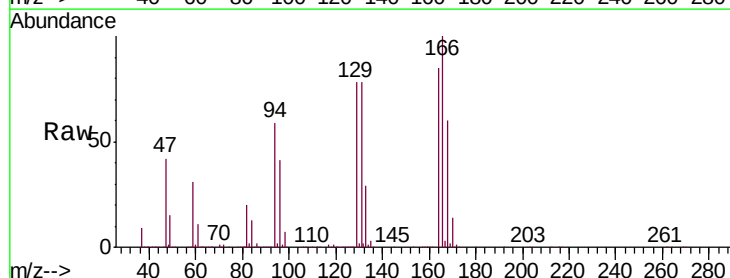
Instrument :
MSVOA_L
ClientSampleId :
1A-TE

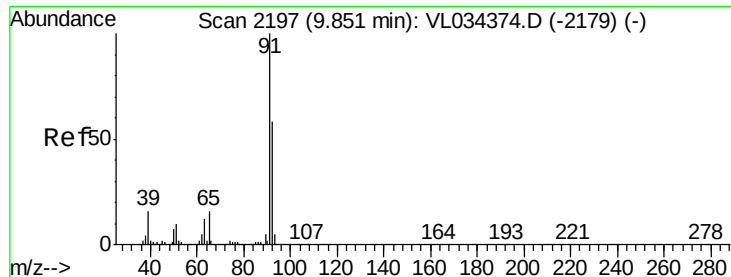
Tgt Ion: 43 Resp: 11893
Ion Ratio Lower Upper
43 100
58 68.5 27.9 41.9#



#52
Tetrachloroethene
Concen: 84.751 ppbv
RT: 11.28 min Scan# 2643
Delta R.T. 0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Tgt Ion: 164 Resp: 5806970
Ion Ratio Lower Upper
164 100
166 117.3 101.7 152.5
129 91.2 82.6 123.8
131 91.0 85.2 127.8





#53

Toluene

Concen: 0.809 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

Instrument :

MSVOA_L

ClientSampleId :

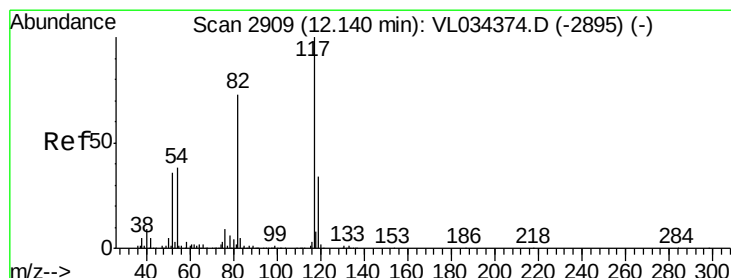
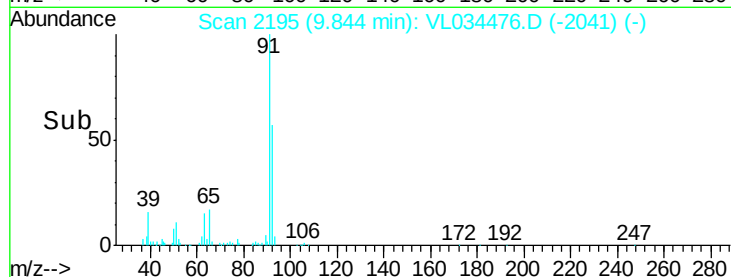
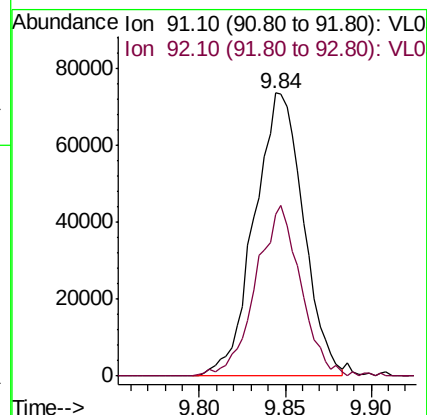
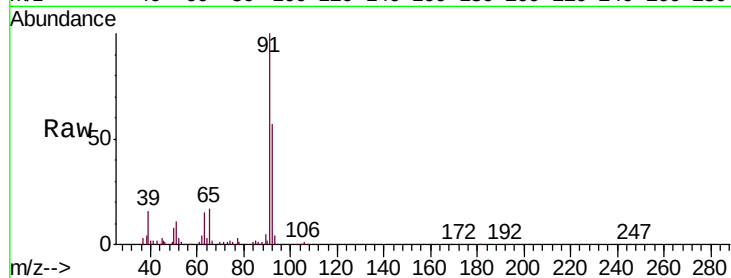
1A-TE

Tgt Ion: 91 Resp: 145542

Ion Ratio Lower Upper

91 100

92 55.6 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.14 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

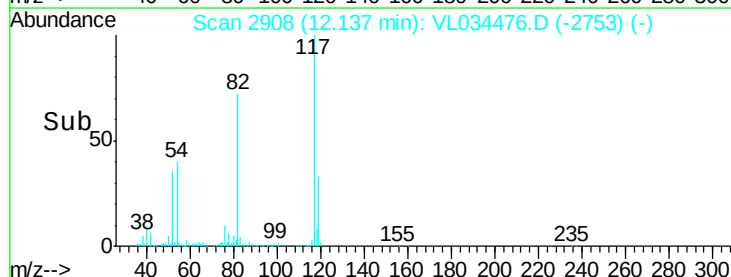
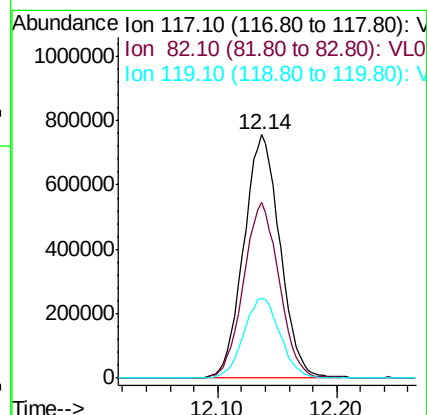
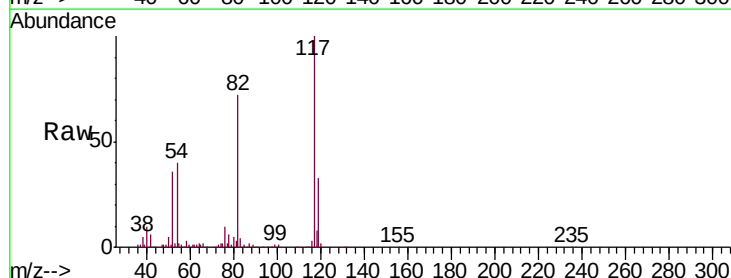
Tgt Ion: 117 Resp: 1592050

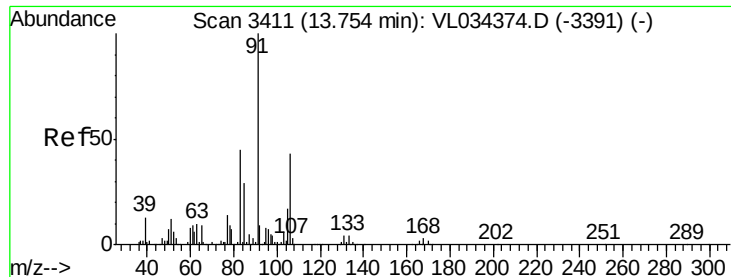
Ion Ratio Lower Upper

117 100

82 71.2 57.5 86.3

119 33.2 25.4 38.2

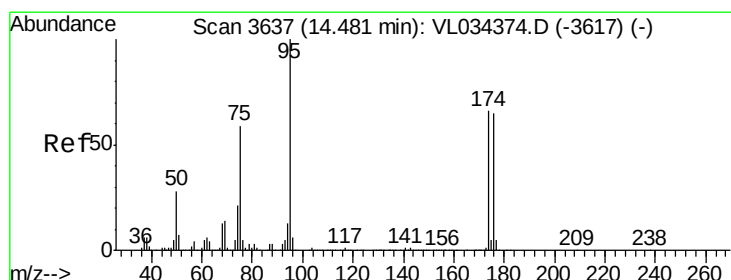
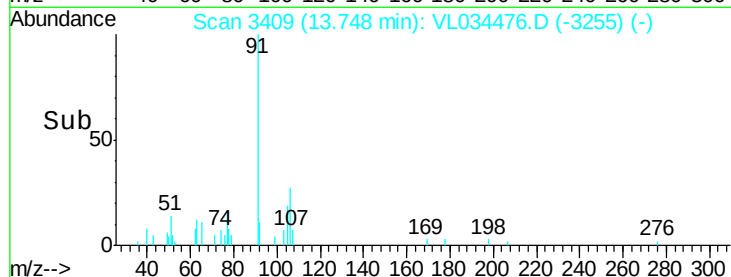
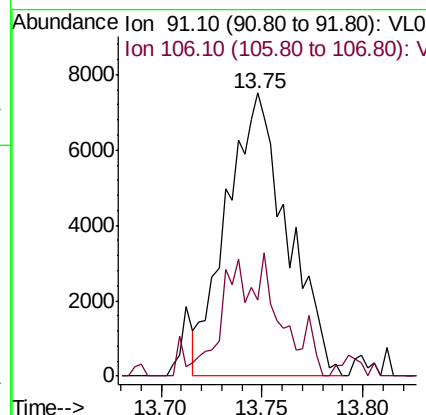
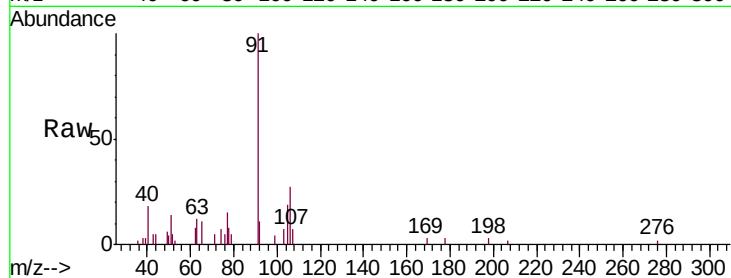




#60
o-Xylene
Concen: 0.074 ppbv
RT: 13.75 min Scan# 3409
Delta R.T. -0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Instrument :
MSVOA_L
ClientSampleId :
1A-TE

Tgt Ion: 91 Resp: 15722
Ion Ratio Lower Upper
91 100
106 42.2 21.3 64.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.203 ppbv
RT: 14.47 min Scan# 3635
Delta R.T. -0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Tgt Ion: 95 Resp: 1366510
Ion Ratio Lower Upper
95 100
174 64.3 52.2 78.2
175 4.6 3.8 5.8

