

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
 Data File : VL033396.D
 Acq On : 20 Mar 2019 19:10
 Operator : SY/AP
 Sample : K1975-01DUP
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Quant Time: Mar 21 12:38:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	807919	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1803028	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.24	117	1774876	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1379510	10.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

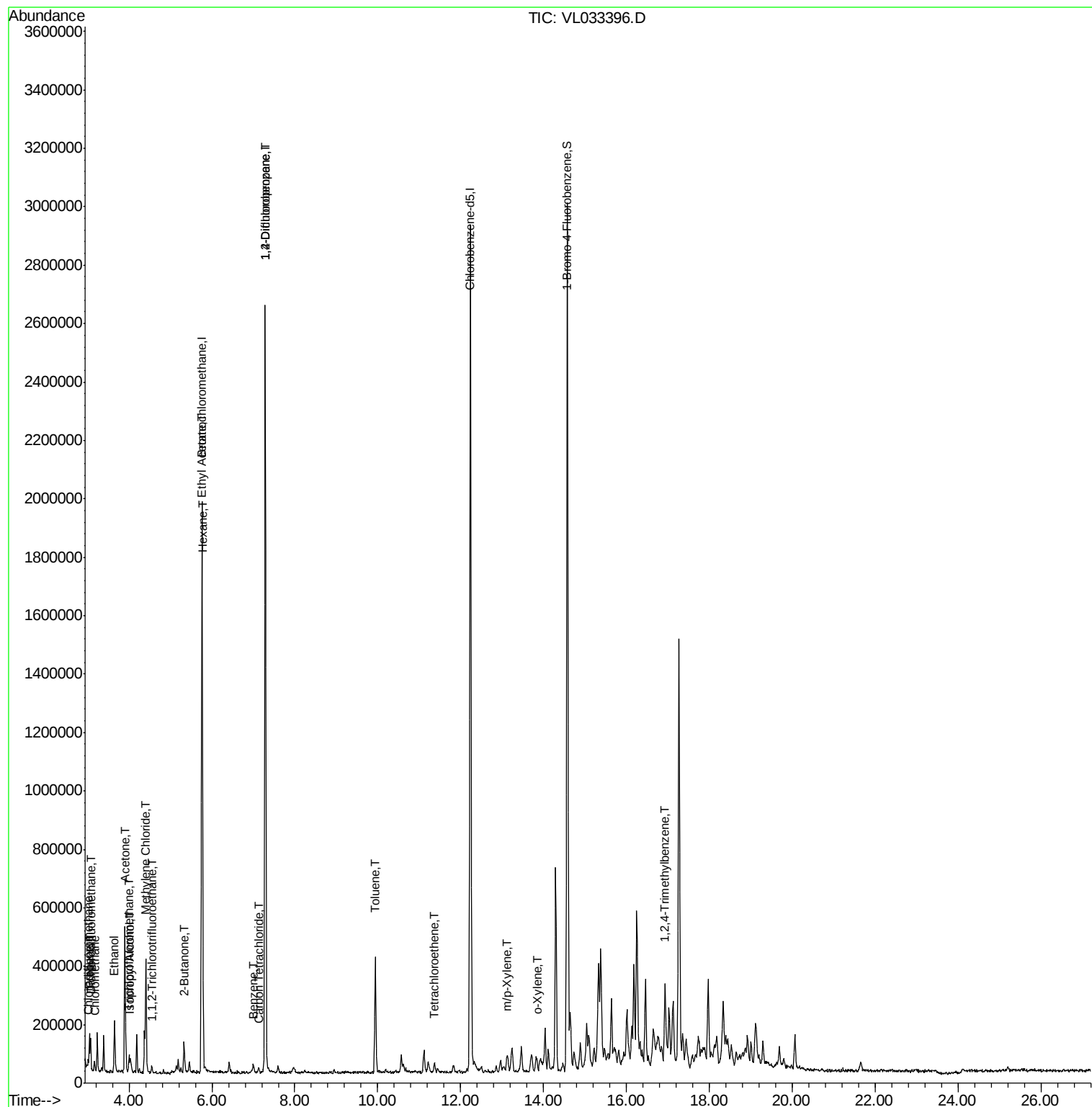
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	71669	0.504	ppbv	92
3) Chlorodifluoromethane	3.01	51	35195	0.380	ppbv	96
4) Chloromethane	3.17	50	30121	0.600	ppbv #	89
9) Propene	3.05	41	21359	0.516	ppbv #	74
11) Trichlorofluoromethane	4.00	101	37948	0.268	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.55	101	7979	0.085	ppbv	96
13) Ethanol	3.65	45	180662	9.155	ppbv	99
15) Acetone	3.90	43	494921	3.941	ppbv	99
19) Isopropyl Alcohol	4.03	45	50374	0.843	ppbv #	1
20) Methylene Chloride	4.41	84	137570	3.359	ppbv	99
25) Ethyl Acetate	5.77	43	207924	1.139	ppbv #	95
26) Hexane	5.78	57	150075	1.839	ppbv #	66
34) 2-Butanone	5.33	43	109500	0.925	ppbv	99
35) Carbon Tetrachloride	7.13	117	5029	0.040	ppbv #	85
36) Benzene	7.00	78	12293	0.076	ppbv #	88
39) 1,2-Dichloropropane	7.29	63	492020	8.142	ppbv #	23
52) Tetrachloroethene	11.36	164	3437	0.051	ppbv	89
53) Toluene	9.94	91	265781	1.450	ppbv	98
59) m/p-Xylene	13.12	91	28274	0.131	ppbv #	100
60) o-Xylene	13.84	91	16524	0.078	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	7974	0.032	ppbv #	64

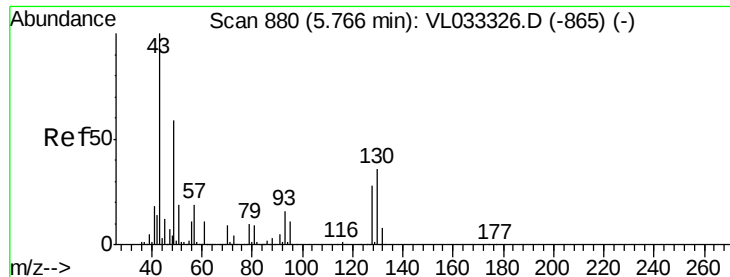
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033396.D

Acq: 20 Mar 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

QA1DUP

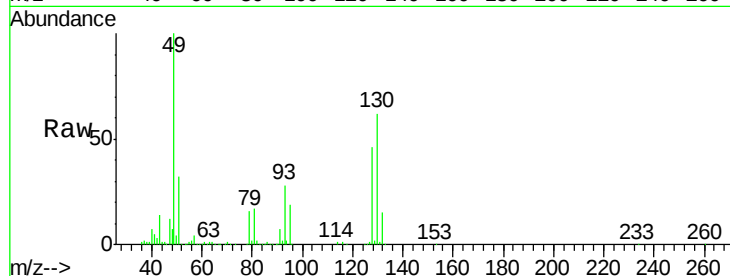
Tgt Ion: 49 Resp: 807919

Ion Ratio Lower Upper

49 100

128 47.1 23.5 70.6

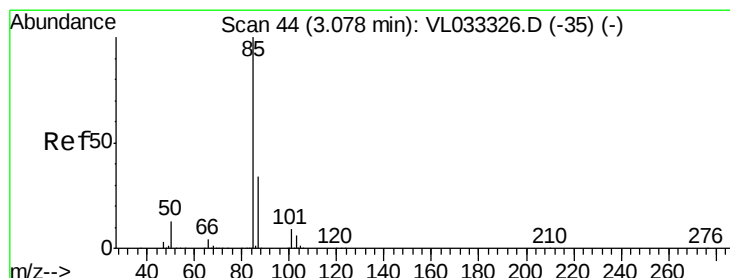
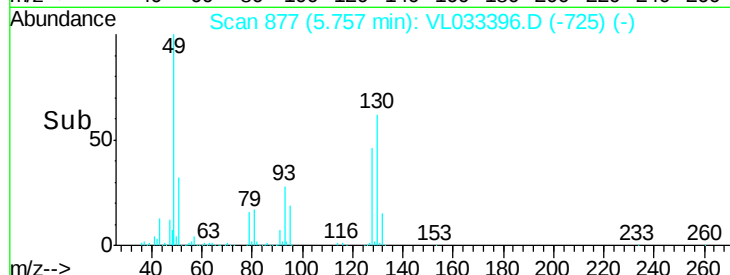
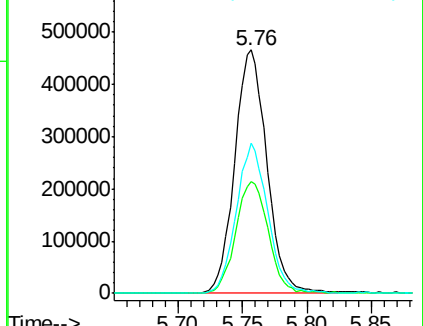
130 60.5 30.1 90.3



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: 0.504 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033396.D

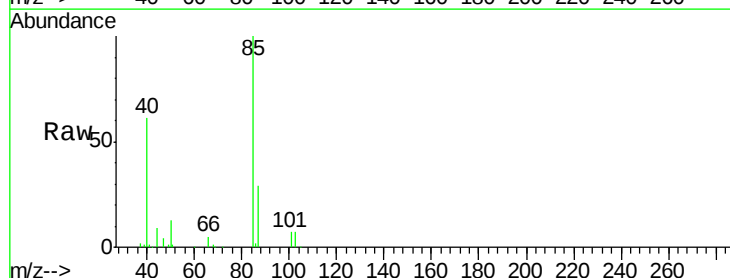
Acq: 20 Mar 2019 19:10

Tgt Ion: 85 Resp: 71669

Ion Ratio Lower Upper

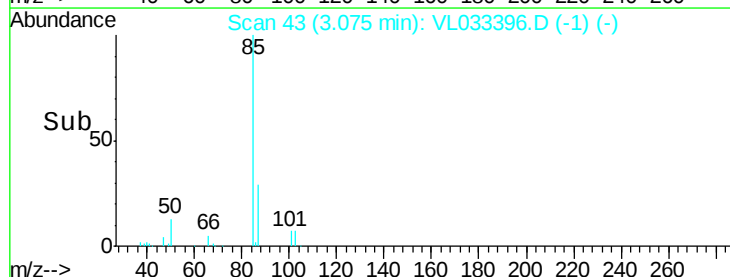
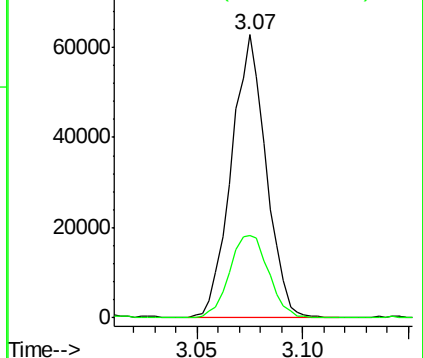
85 100

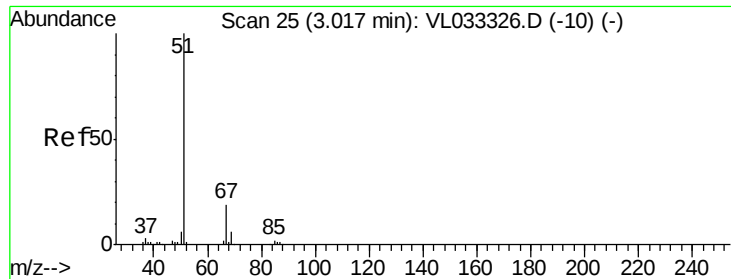
87 29.2 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.380 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033396.D

Acq: 20 Mar 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

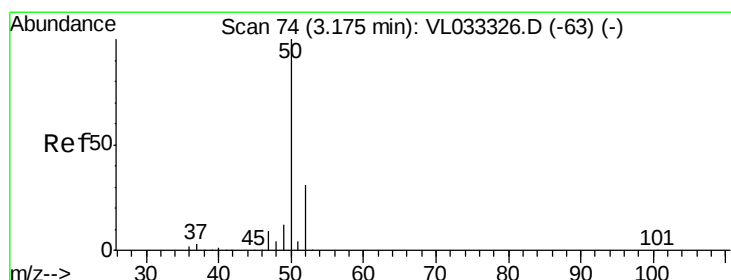
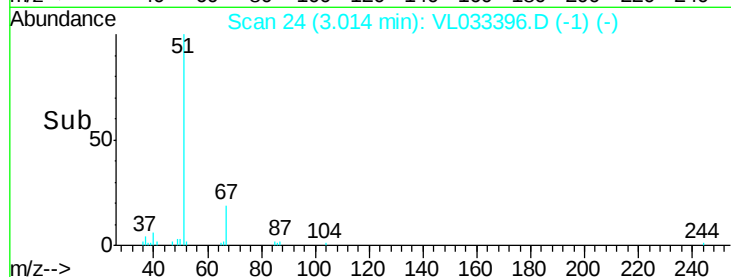
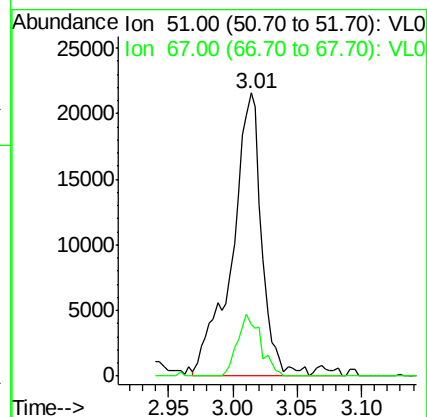
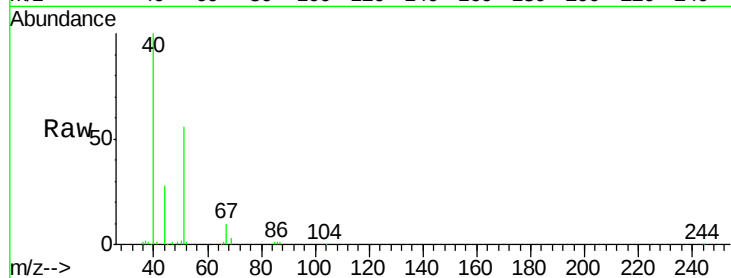
QA1DUP

Tgt Ion: 51 Resp: 35195

Ion Ratio Lower Upper

51 100

67 16.8 14.9 22.3



#4

Chloromethane

Concen: 0.600 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033396.D

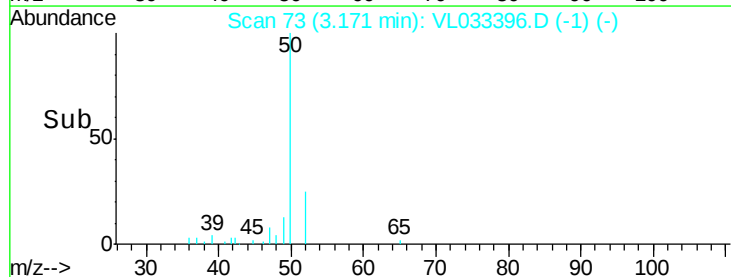
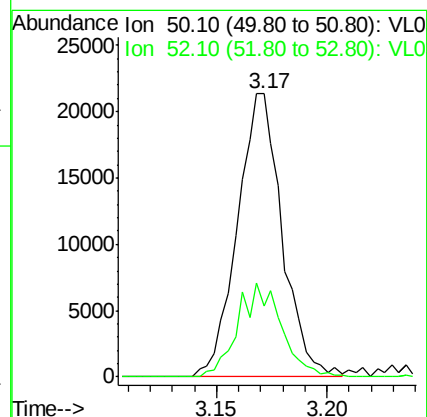
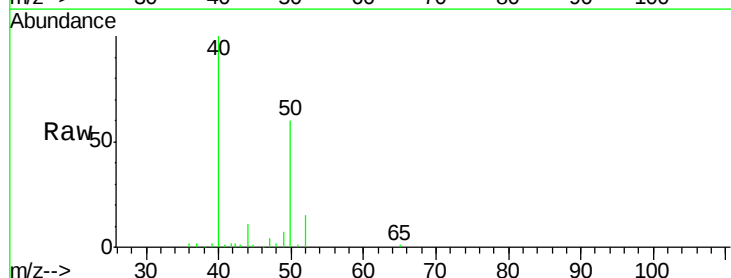
Acq: 20 Mar 2019 19:10

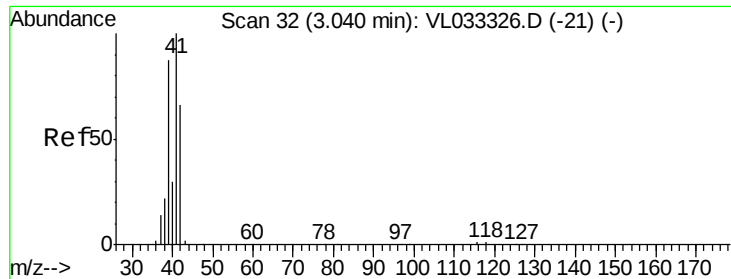
Tgt Ion: 50 Resp: 30121

Ion Ratio Lower Upper

50 100

52 25.0 25.0 37.6#





#9

Propene

Concen: 0.516 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033396.D

Acq: 20 Mar 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

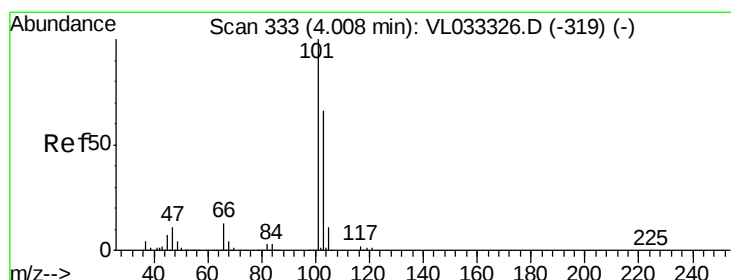
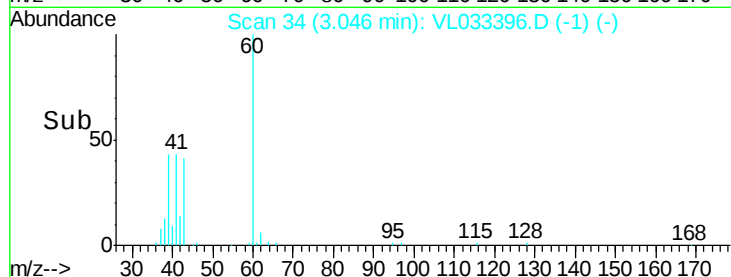
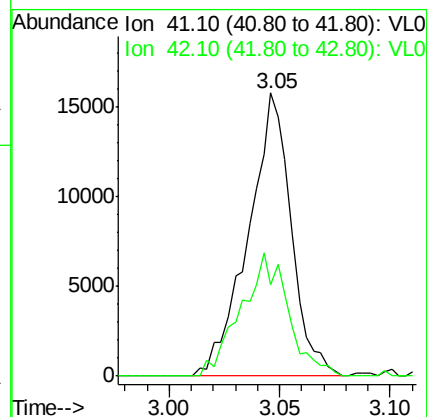
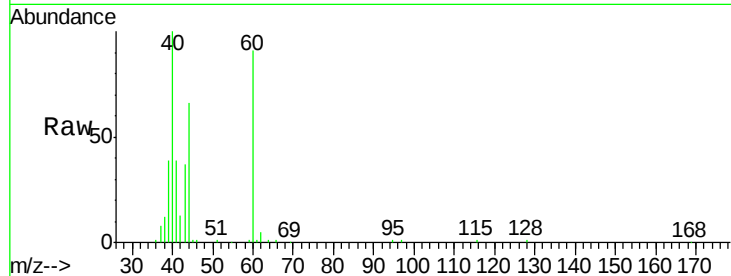
QA1DUP

Tgt Ion: 41 Resp: 21359

Ion Ratio Lower Upper

41 100

42 47.6 55.2 82.8#



#11

Trichlorofluoromethane

Concen: 0.268 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL033396.D

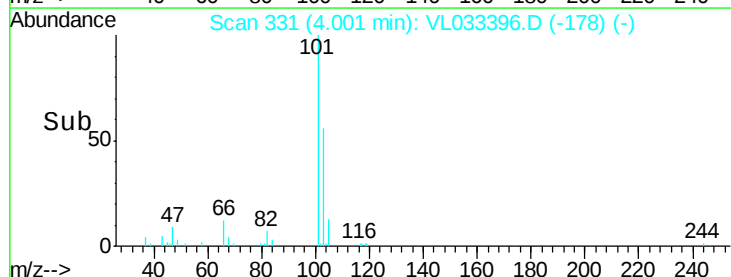
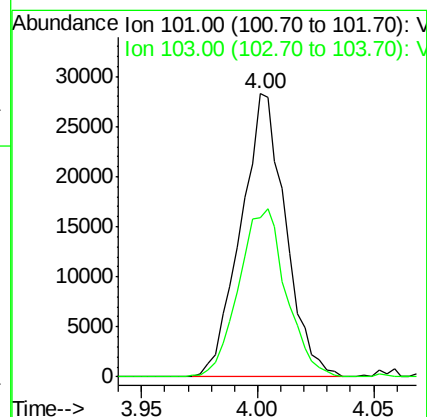
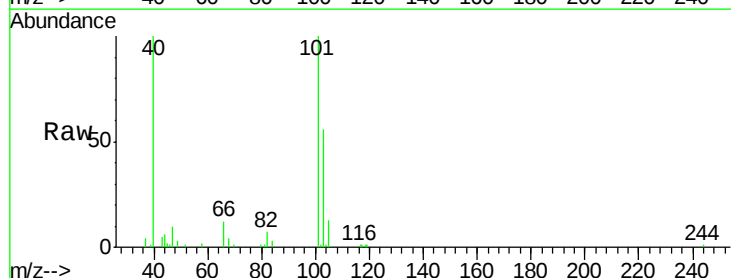
Acq: 20 Mar 2019 19:10

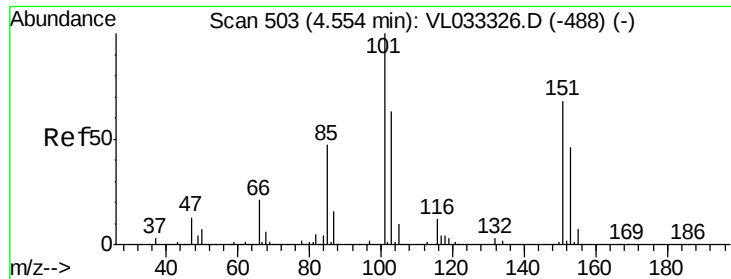
Tgt Ion: 101 Resp: 37948

Ion Ratio Lower Upper

101 100

103 56.2 52.9 79.3

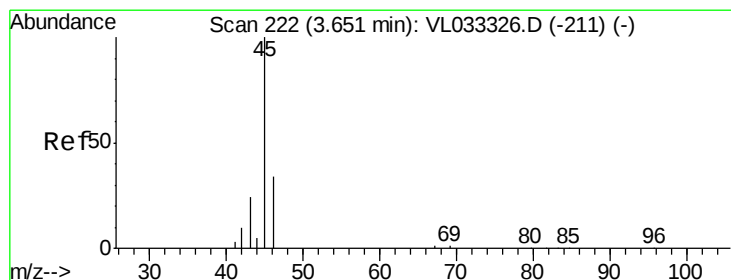
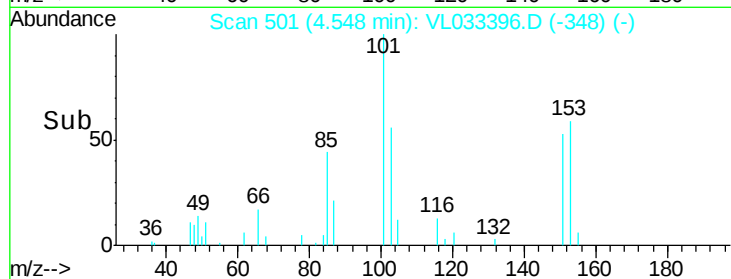
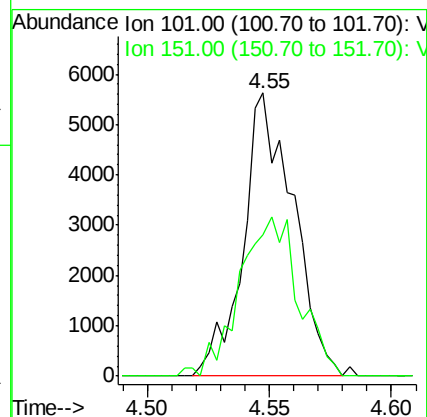
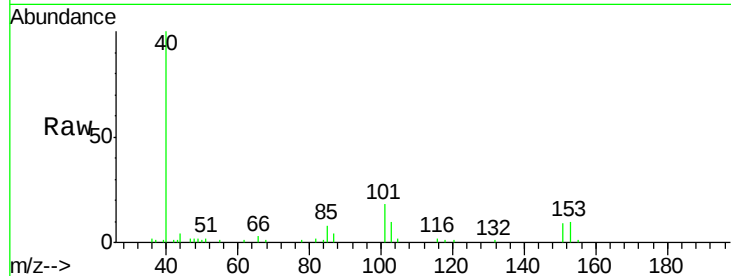




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.085 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.01 min
 Lab File: VL033396.D
 Acq: 20 Mar 2019 19:10

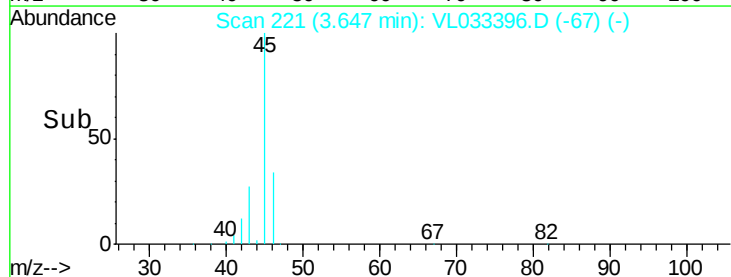
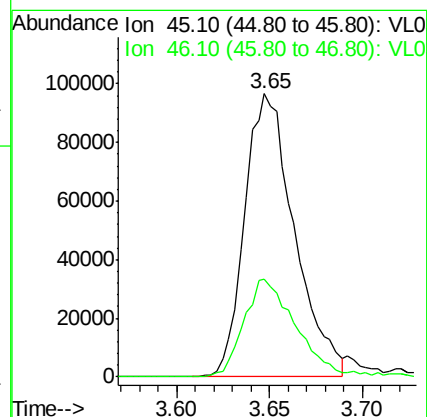
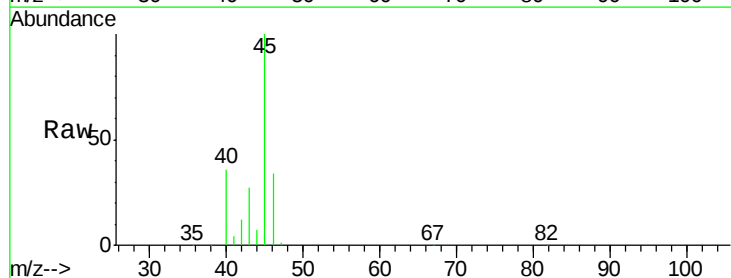
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

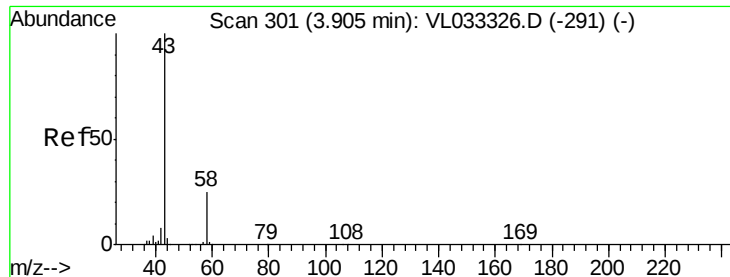
Tgt Ion: 101 Resp: 7979
 Ion Ratio Lower Upper
 101 100
 151 66.8 56.3 84.5



#13
 Ethanol
 Concen: 9.155 ppbv
 RT: 3.65 min Scan# 221
 Delta R.T. -0.00 min
 Lab File: VL033396.D
 Acq: 20 Mar 2019 19:10

Tgt Ion: 45 Resp: 180662
 Ion Ratio Lower Upper
 45 100
 46 36.6 14.9 59.7





#15

Acetone

Concen: 3.941 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033396.D

Acq: 20 Mar 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

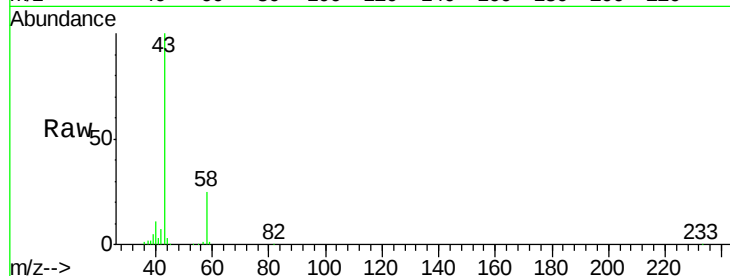
QA1DUP

Tgt Ion: 43 Resp: 494921

Ion Ratio Lower Upper

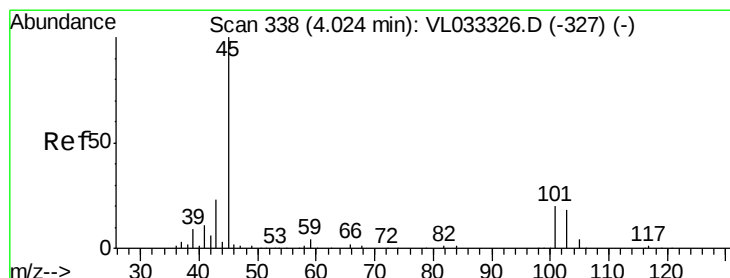
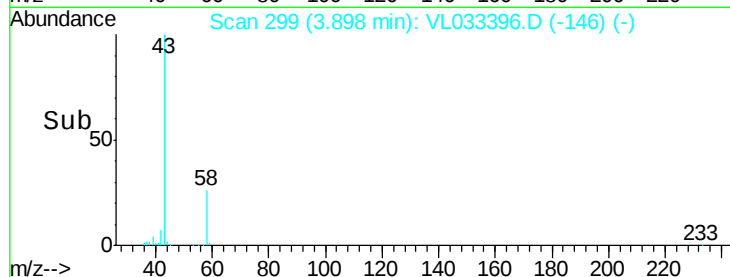
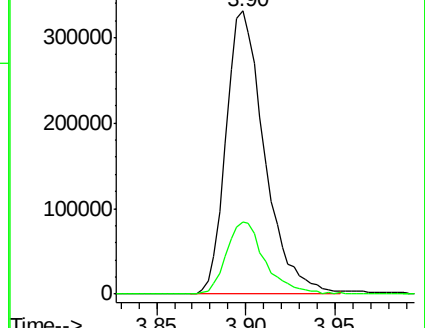
43 100

58 25.8 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.843 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033396.D

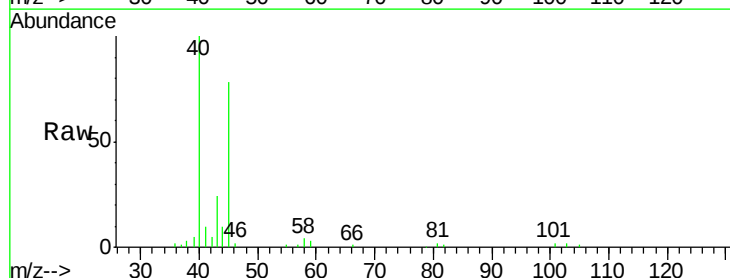
Acq: 20 Mar 2019 19:10

Tgt Ion: 45 Resp: 50374

Ion Ratio Lower Upper

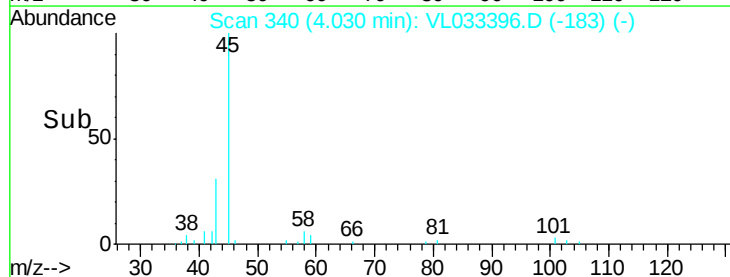
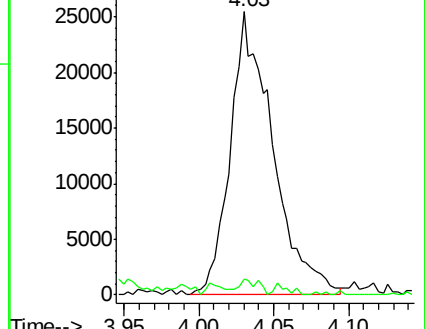
45 100

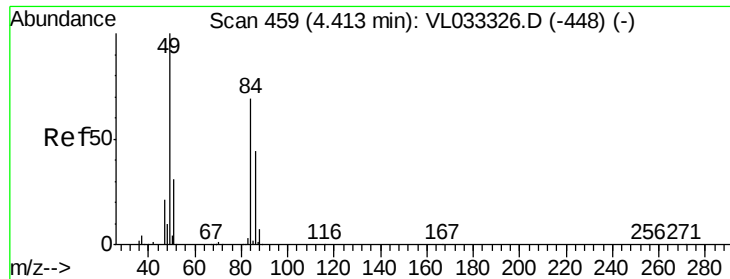
58 255.3 1.5 2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

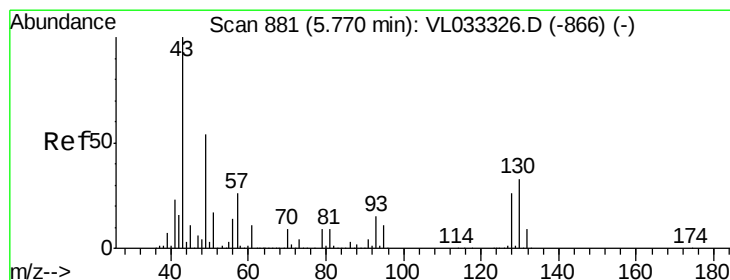
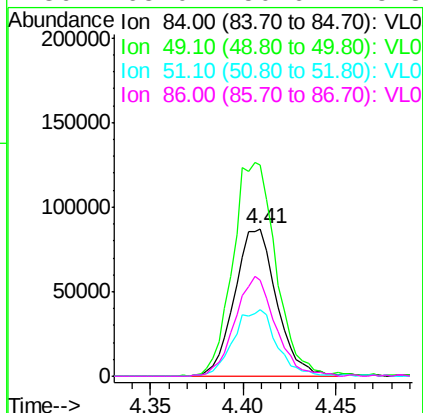
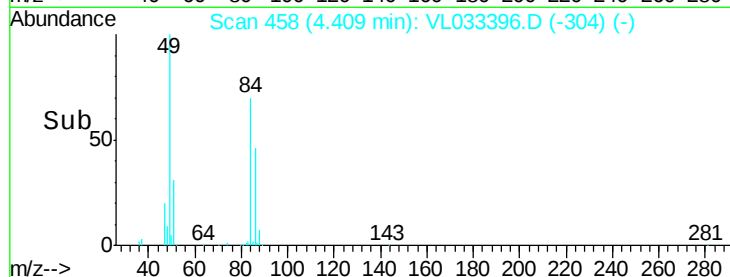
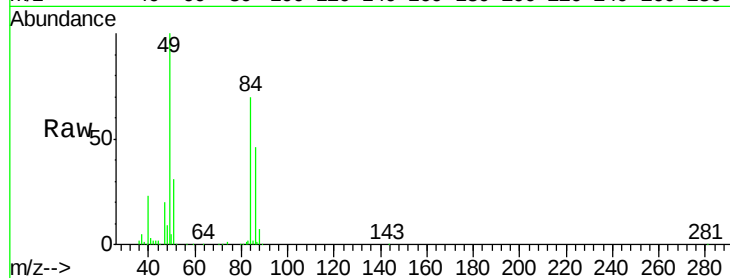




#20
Methylene Chloride
Concen: 3.359 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033396.D
Acq: 20 Mar 2019 19:10

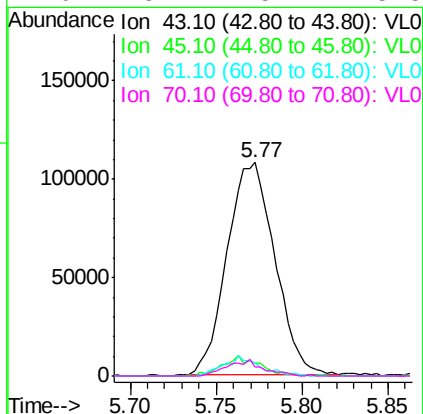
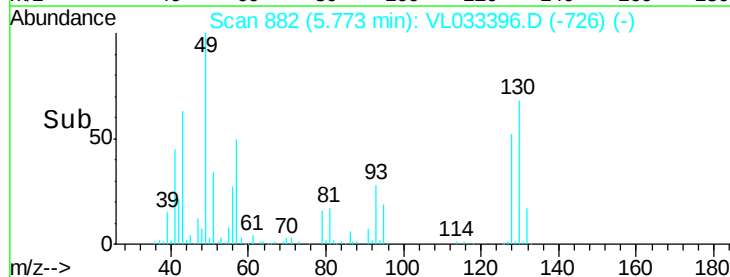
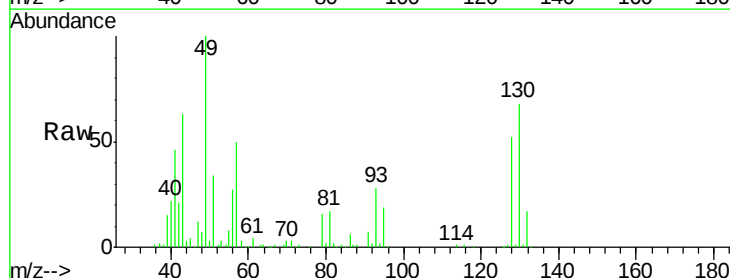
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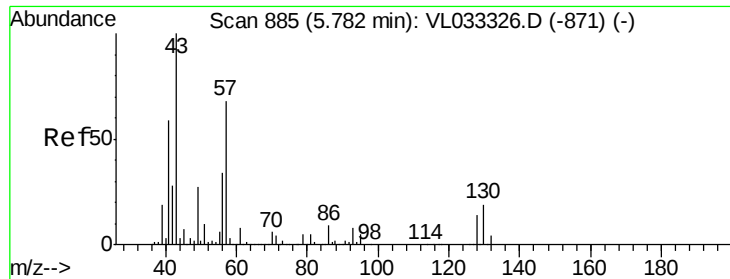
Tgt Ion:	84	Resp:	137570
Ion	Ratio	Lower	Upper
84	100		
49	142.8	115.4	173.0
51	44.9	35.8	53.6
86	65.0	50.6	75.8



#25
Ethyl Acetate
Concen: 1.139 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033396.D
Acq: 20 Mar 2019 19:10

Tgt Ion:	43	Resp:	207924
Ion	Ratio	Lower	Upper
43	100		
45	8.0	7.9	11.9
61	7.1	7.4	11.2#
70	5.7	5.7	8.5

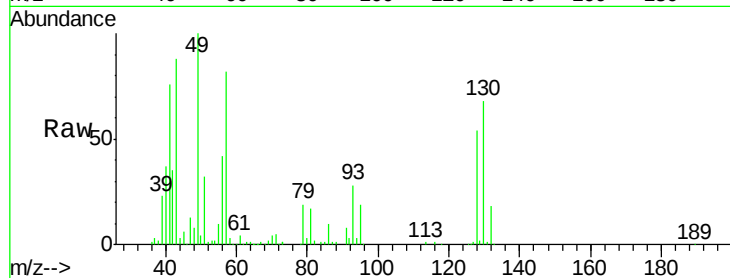




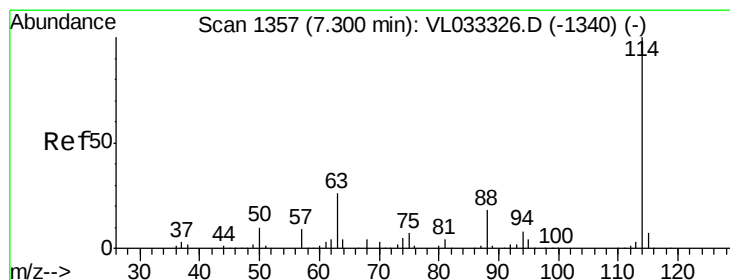
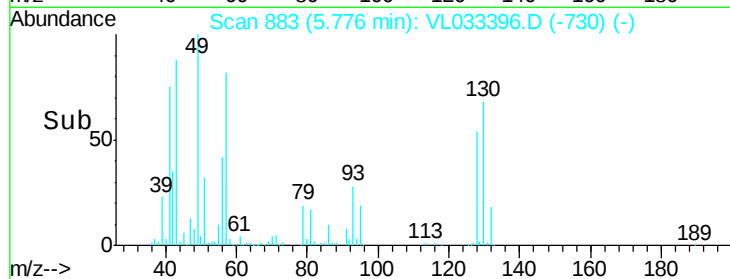
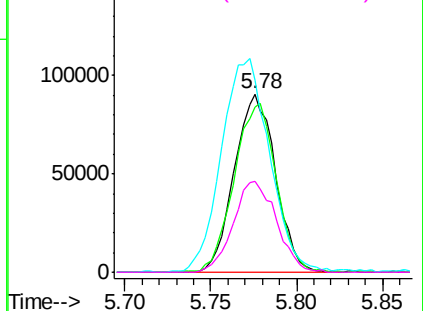
#26
Hexane
Concen: 1.839 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033396.D
Acq: 20 Mar 2019 19:10

Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

Tgt Ion: 57 Resp: 150075
Ion Ratio Lower Upper
57 100
41 97.8 70.5 105.7
43 143.5 181.8 272.8#
56 53.9 42.2 63.2

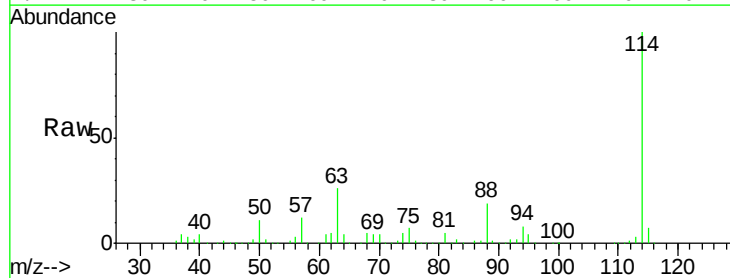


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

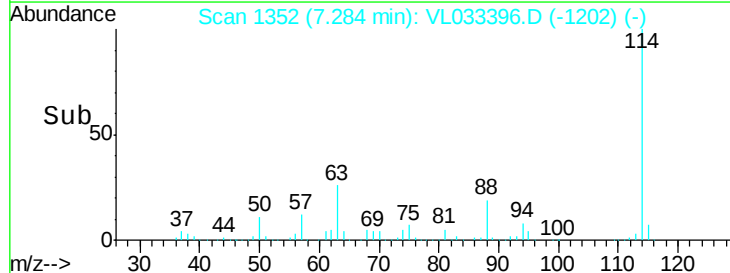
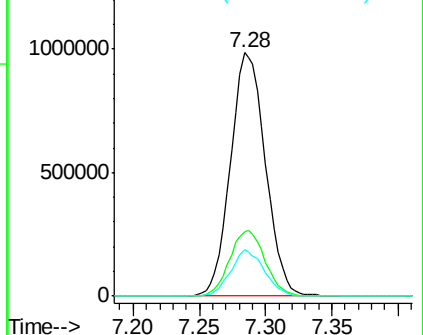


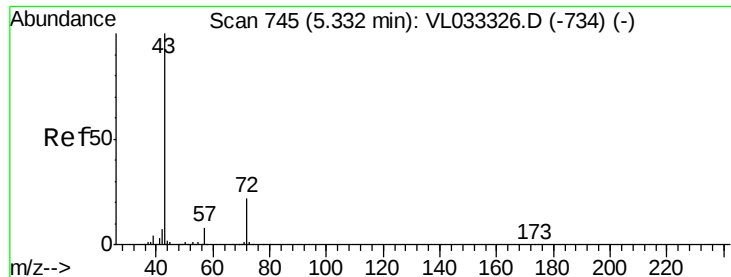
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.02 min
Lab File: VL033396.D
Acq: 20 Mar 2019 19:10

Tgt Ion: 114 Resp: 1803028
Ion Ratio Lower Upper
114 100
63 27.4 21.4 32.2
88 18.5 14.5 21.7



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





#34

2-Butanone

Concen: 0.925 ppbv

RT: 5.33 min Scan# 744

Delta R.T. -0.00 min

Lab File: VL033396.D

Acq: 20 Mar 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

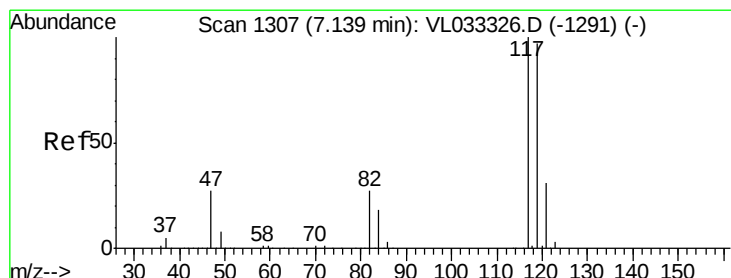
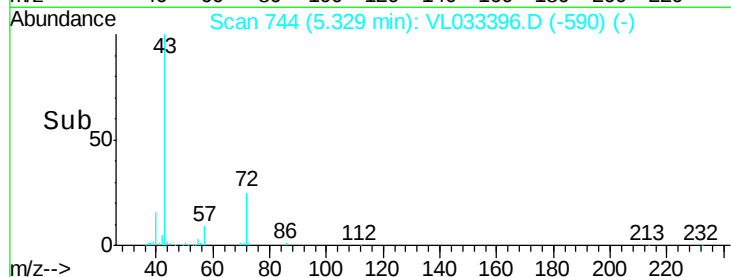
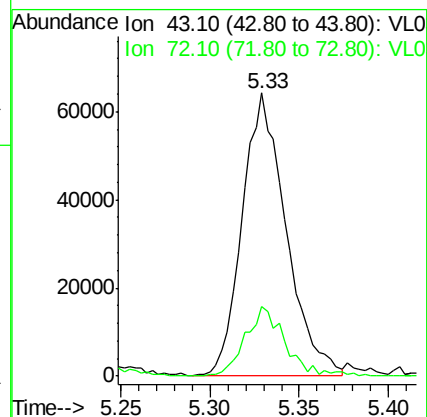
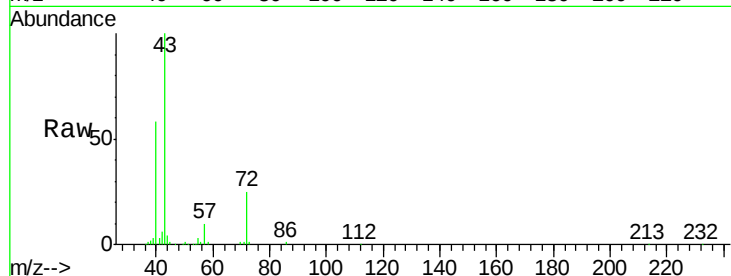
QA1DUP

Tgt Ion: 43 Resp: 109500

Ion Ratio Lower Upper

43 100

72 22.5 17.7 26.5



#35

Carbon Tetrachloride

Concen: 0.040 ppbv

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033396.D

Acq: 20 Mar 2019 19:10

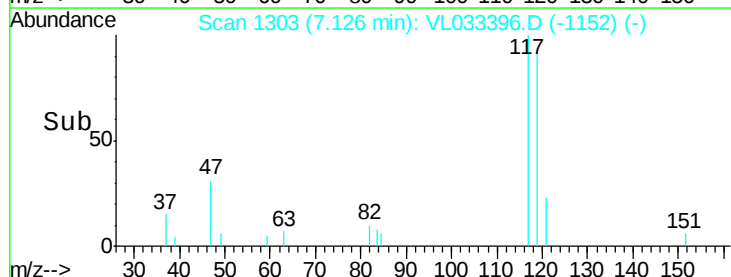
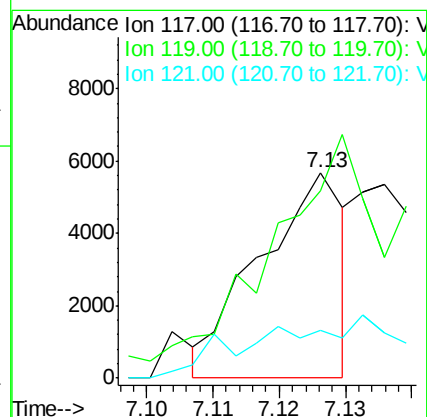
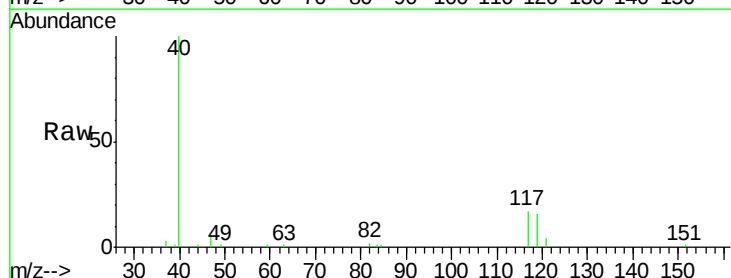
Tgt Ion: 117 Resp: 5029

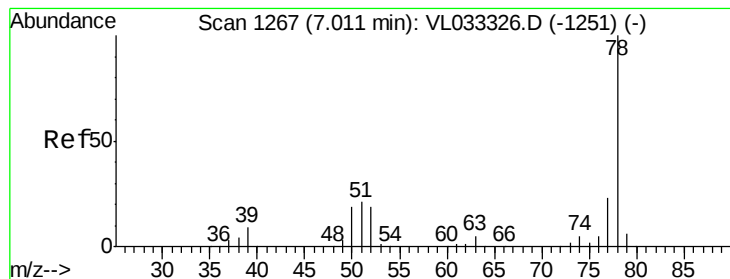
Ion Ratio Lower Upper

117 100

119 83.5 77.4 116.0

121 19.7 24.9 37.3#





#36

Benzene

Concen: 0.076 ppbv

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033396.D

Acq: 20 Mar 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

QA1DUP

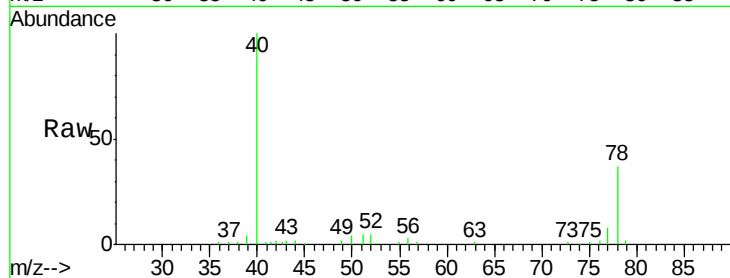
Tgt Ion: 78 Resp: 12293

Ion Ratio Lower Upper

78 100

77 20.2 18.1 27.1

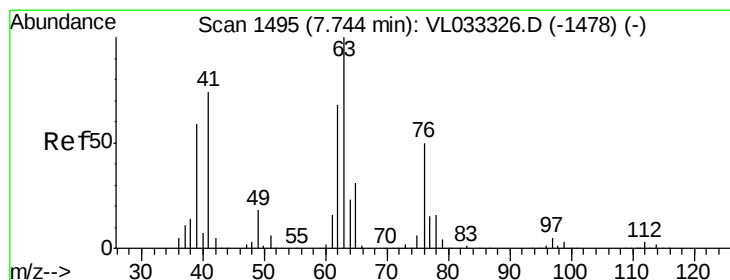
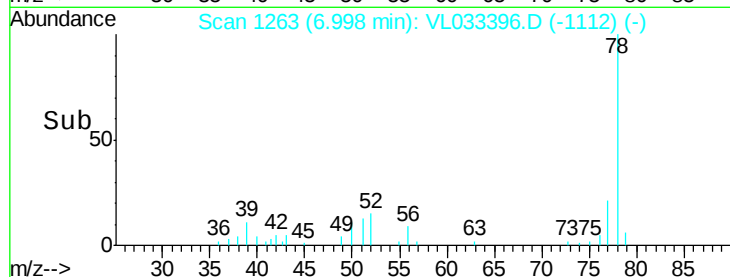
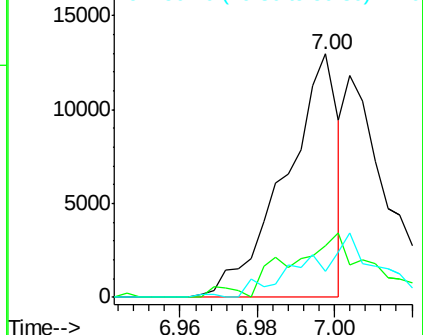
50 9.9 15.2 22.8#



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: 8.142 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.46 min

Lab File: VL033396.D

Acq: 20 Mar 2019 19:10

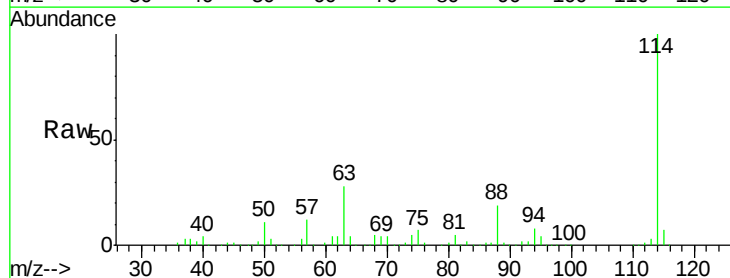
Tgt Ion: 63 Resp: 492020

Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

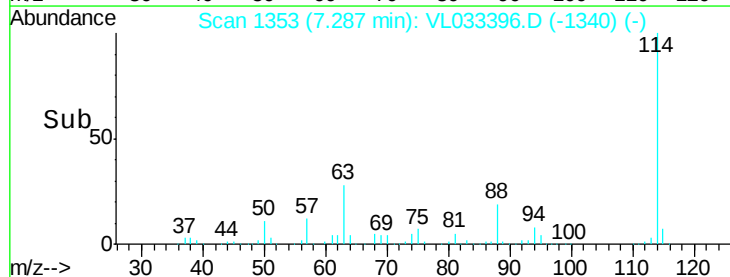
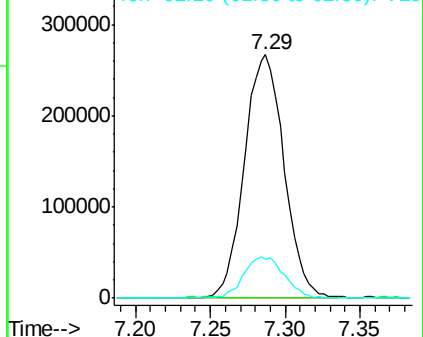
62 16.2 54.7 82.1#

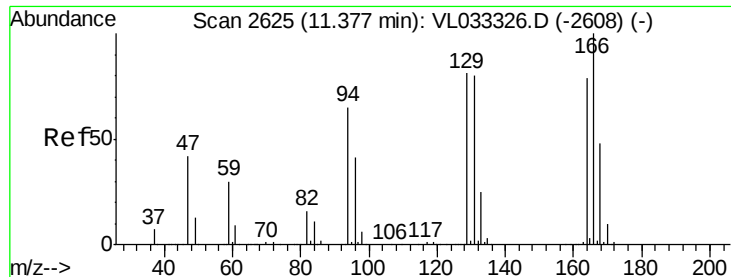


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 0.051 ppbv

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033396.D

Acq: 20 Mar 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

Tgt Ion:164 Resp: 3437

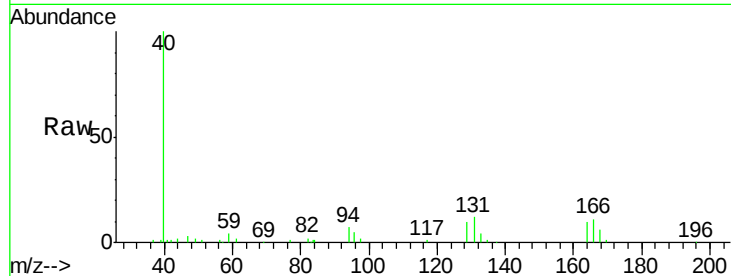
Ion Ratio Lower Upper

164 100

166 112.7 101.5 152.3

129 98.9 82.2 123.2

131 119.2 81.1 121.7

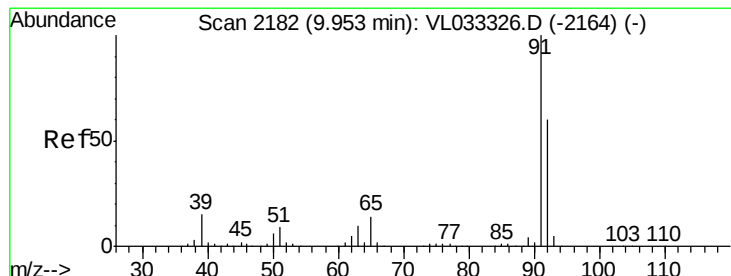
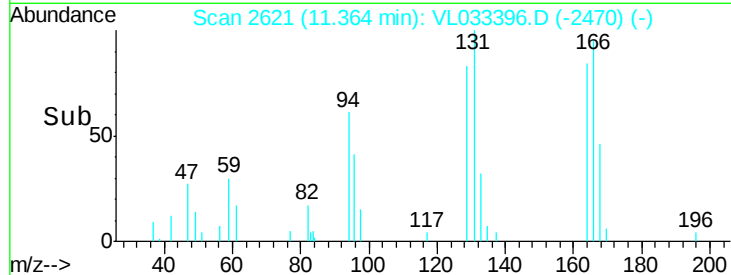
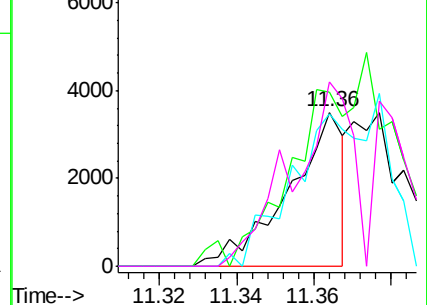


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.450 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033396.D

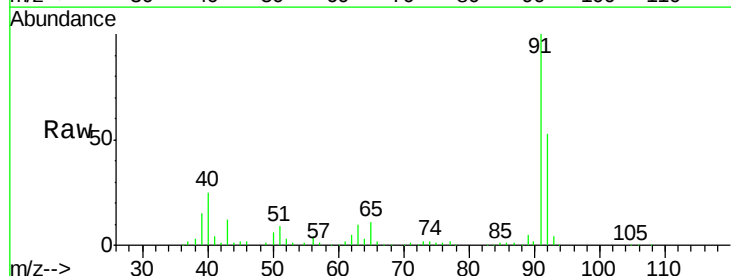
Acq: 20 Mar 2019 19:10

Tgt Ion: 91 Resp: 265781

Ion Ratio Lower Upper

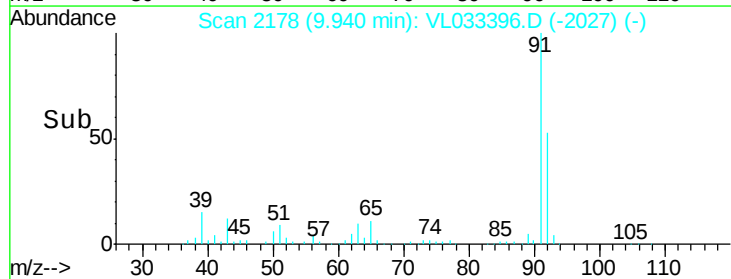
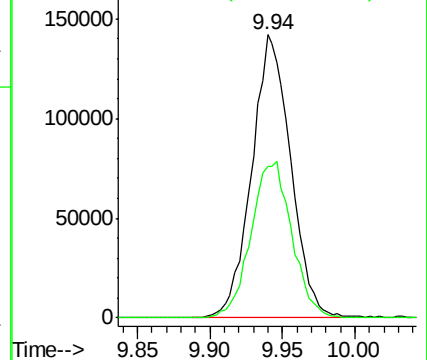
91 100

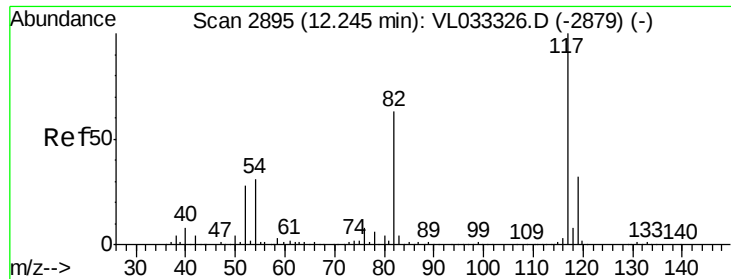
92 57.9 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

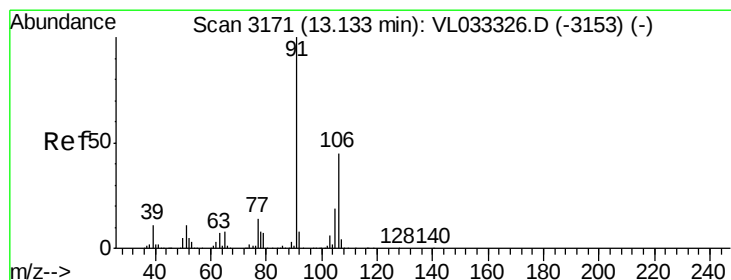
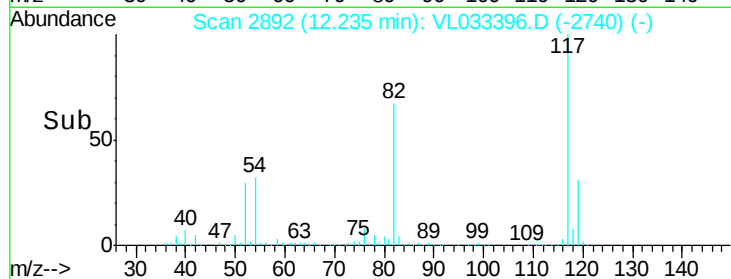
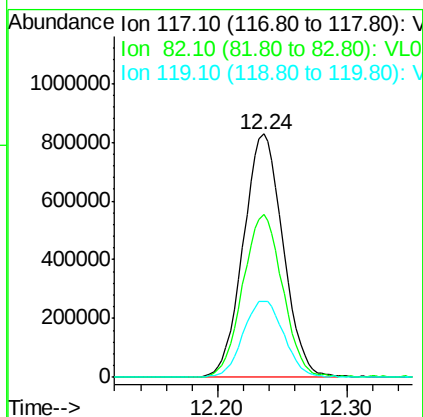
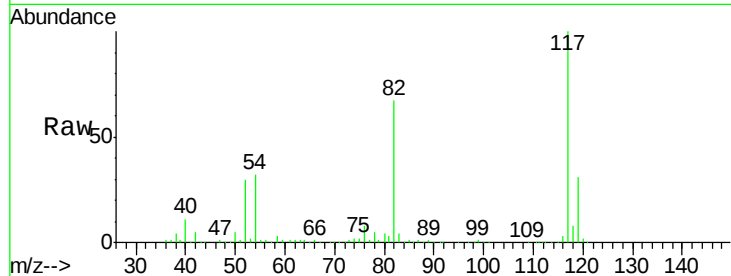




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033396.D
Acq: 20 Mar 2019 19:10

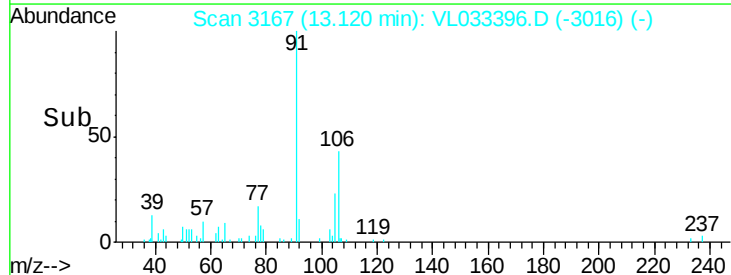
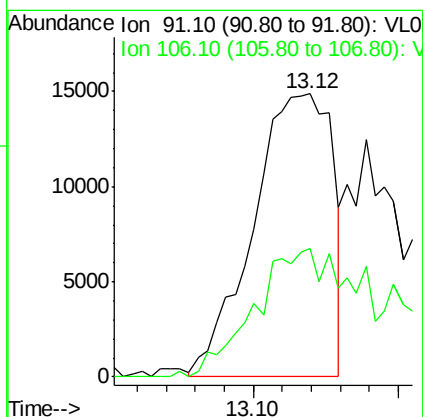
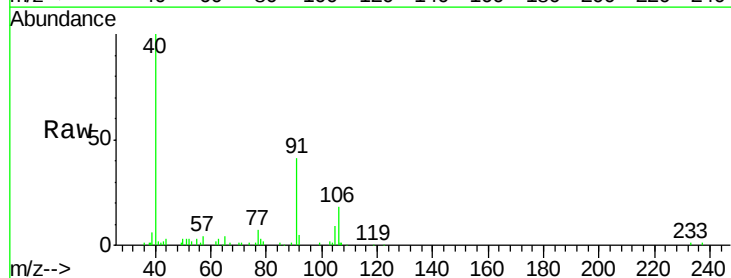
Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

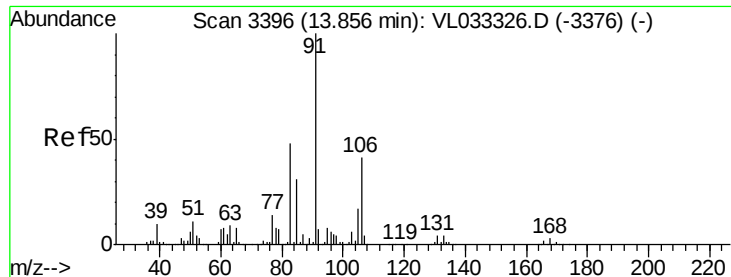
Tgt Ion: 117 Resp: 1774876
Ion Ratio Lower Upper
117 100
82 67.4 53.4 80.2
119 32.5 27.3 40.9



#59
m/p-Xylene
Concen: 0.131 ppbv
RT: 13.12 min Scan# 3167
Delta R.T. -0.01 min
Lab File: VL033396.D
Acq: 20 Mar 2019 19:10

Tgt Ion: 91 Resp: 28274
Ion Ratio Lower Upper
91 100
106 75.8 0.0 0.0#

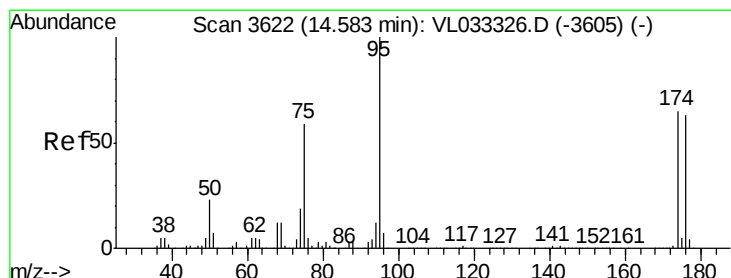
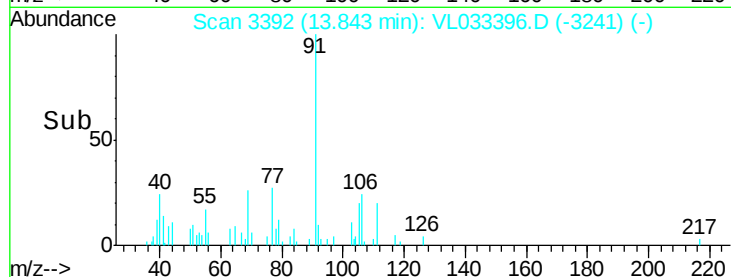
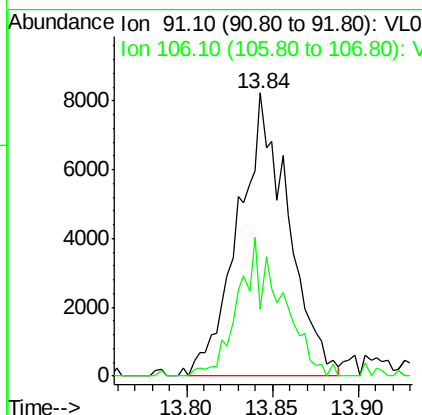
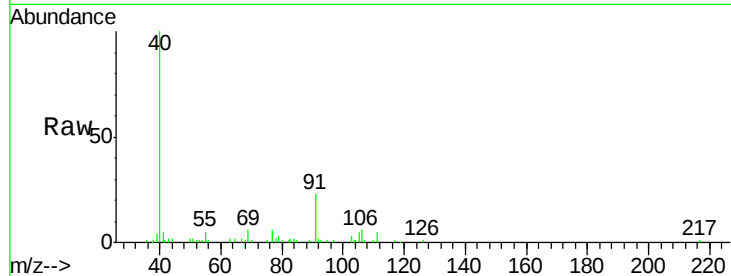




#60
o-Xylene
Concen: 0.078 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033396.D
Acq: 20 Mar 2019 19:10

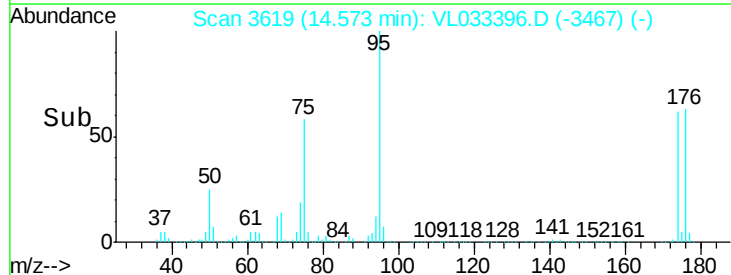
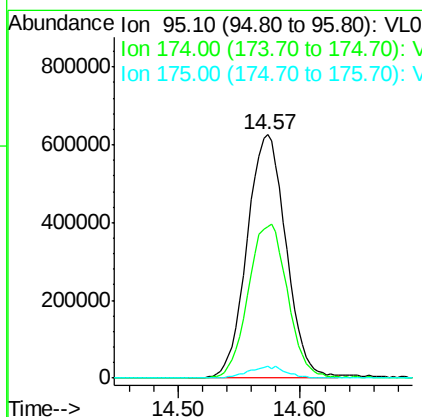
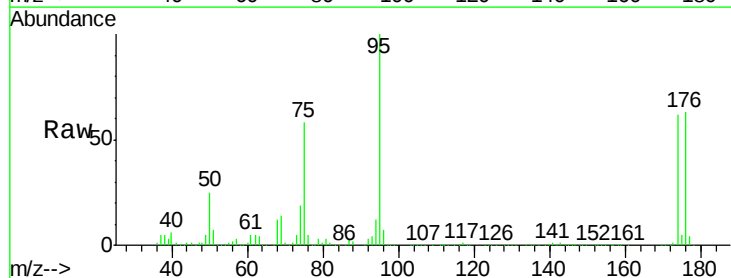
Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

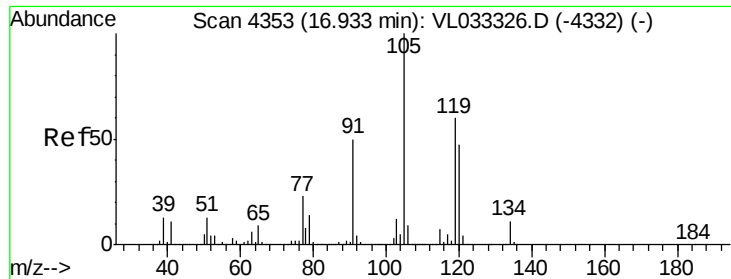
Tgt Ion: 91 Resp: 16524
Ion Ratio Lower Upper
91 100
106 42.7 21.3 63.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.489 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033396.D
Acq: 20 Mar 2019 19:10

Tgt Ion: 95 Resp: 1379510
Ion Ratio Lower Upper
95 100
174 64.4 51.5 77.3
175 4.6 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.032 ppbv
 RT: 16.92 min Scan# 4348
 Delta R.T. -0.02 min
 Lab File: VL033396.D
 Acq: 20 Mar 2019 19:10

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Tgt Ion:	105	Resp:	7974
Ion	Ratio	Lower	Upper
105	100		
120	27.0	37.4	56.2#
91	20.5	41.0	61.4#
77	37.8	18.5	27.7#

