

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
 Data File : VL033397.D
 Acq On : 20 Mar 2019 19:47
 Operator : SY/AP
 Sample : K1975-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Quant Time: Mar 21 12:38:21 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	811189	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1850653	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1791515	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1355907	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

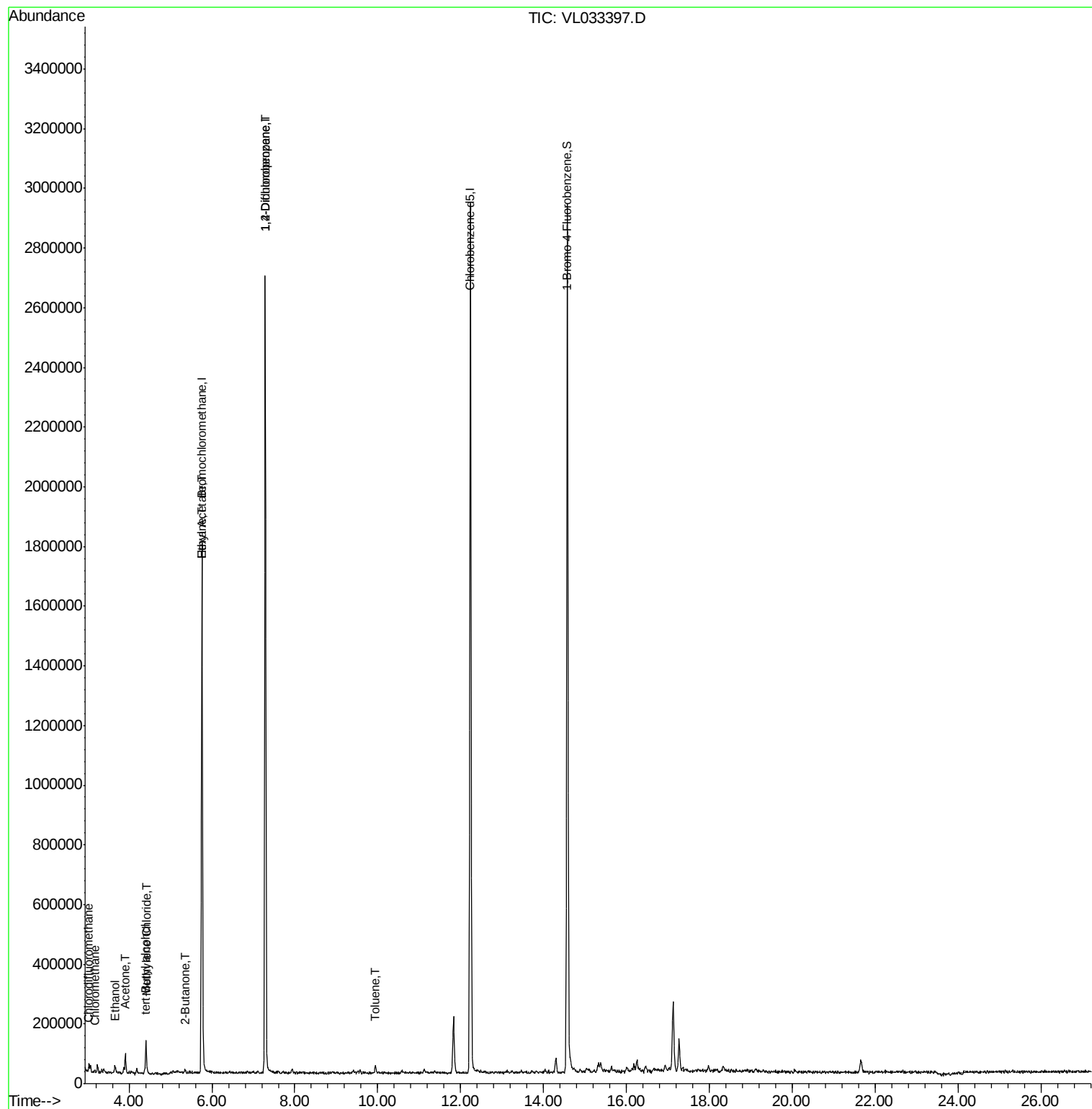
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.02	51	4665	0.050	ppbv	94
4) Chloromethane	3.17	50	3517	0.070	ppbv #	43
13) Ethanol	3.66	45	20940	1.057	ppbv	96
15) Acetone	3.91	43	64398	0.511	ppbv	94
17) tert-Butyl alcohol	4.38	59	993	0.056	ppbv #	74
20) Methylene Chloride	4.41	84	35046	0.852	ppbv	92
25) Ethyl Acetate	5.77	43	13876	0.076	ppbv #	94
26) Hexane	5.77	57	15560	0.190	ppbv #	58
34) 2-Butanone	5.35	43	12778	0.105	ppbv	94
39) 1,2-Dichloropropane	7.28	63	494264	7.969	ppbv #	24
53) Toluene	9.94	91	10942	0.058	ppbv #	54

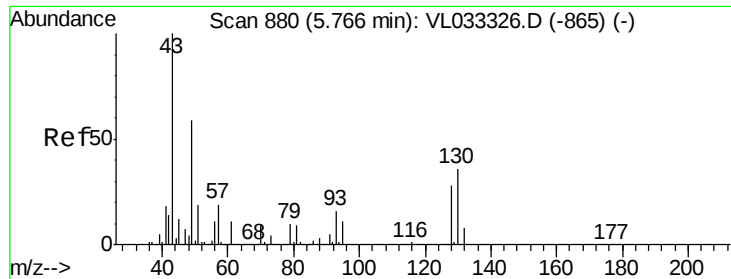
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033397.D

Acq: 20 Mar 2019 19:47

Instrument :

MSVOA_L

ClientSampleId :

QA1DL

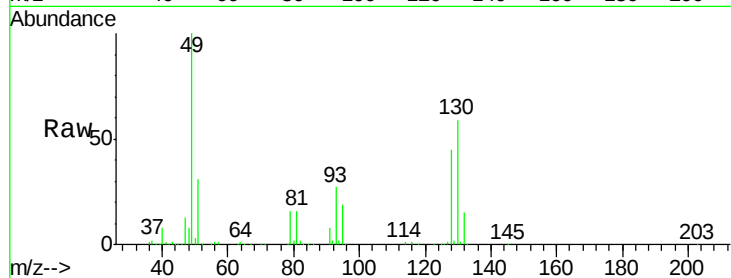
Tgt Ion: 49 Resp: 811189

Ion Ratio Lower Upper

49 100

128 47.7 23.5 70.6

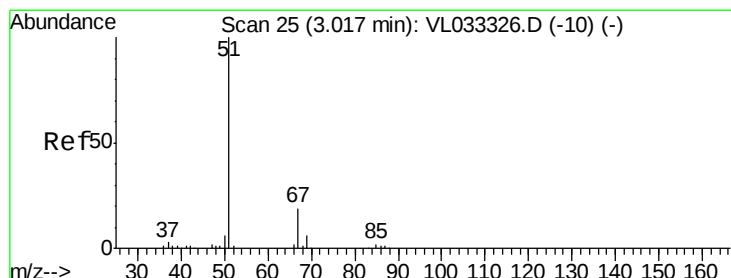
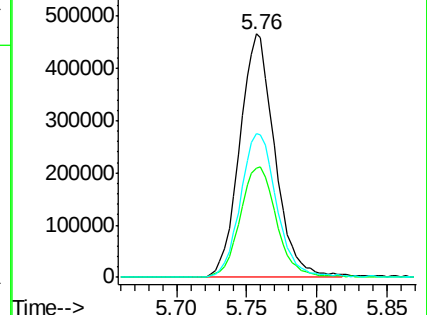
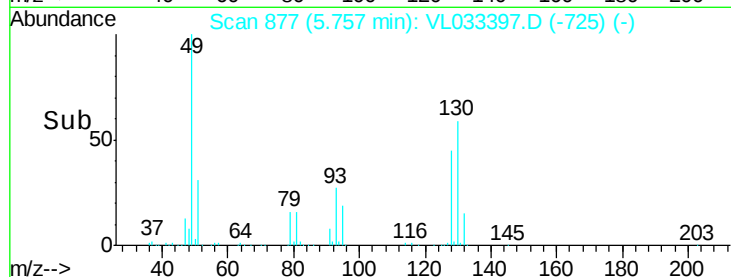
130 61.4 30.1 90.3



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



#3

Chlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL033397.D

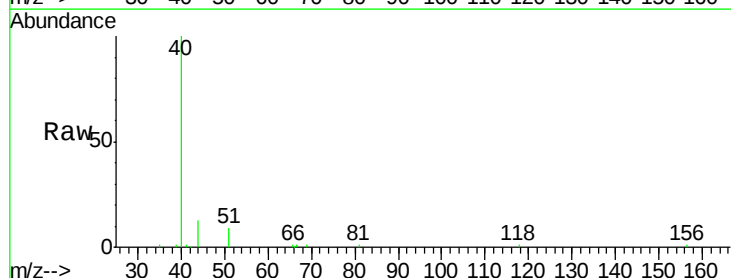
Acq: 20 Mar 2019 19:47

Tgt Ion: 51 Resp: 4665

Ion Ratio Lower Upper

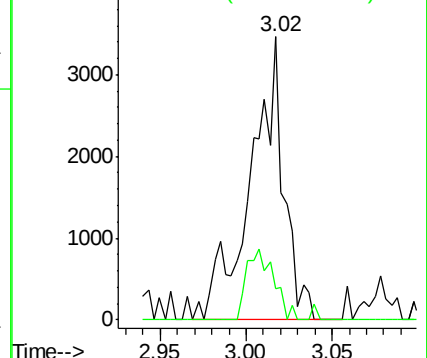
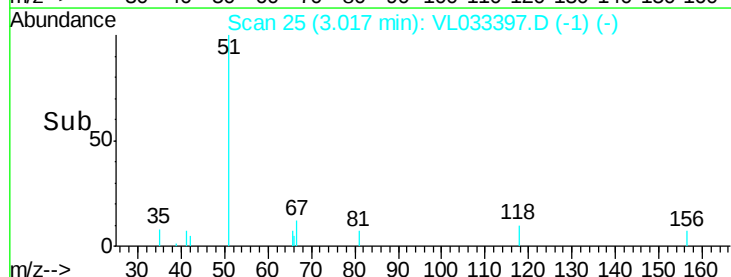
51 100

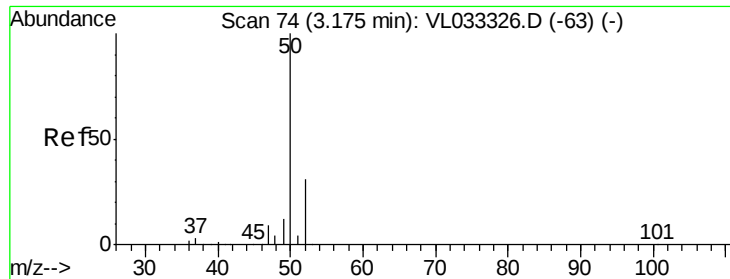
67 21.1 14.9 22.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.070 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL033397.D

Acq: 20 Mar 2019 19:47

Instrument :

MSVOA_L

ClientSampleId :

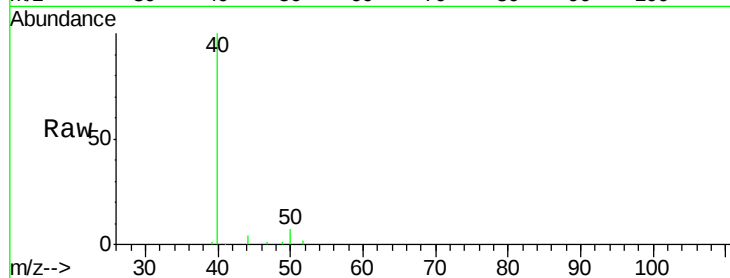
QA1DL

Tgt Ion: 50 Resp: 3517

Ion Ratio Lower Upper

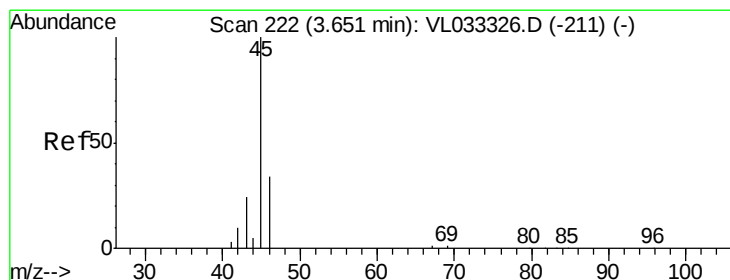
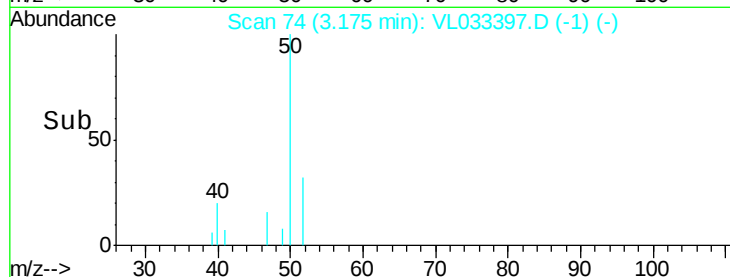
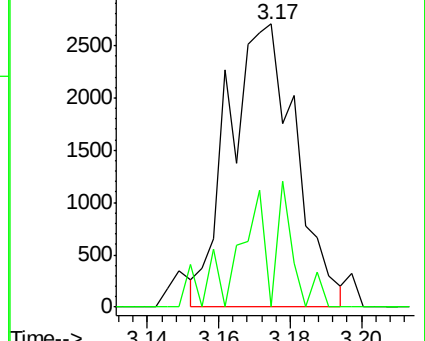
50 100

52 0.0 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#13

Ethanol

Concen: 1.057 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033397.D

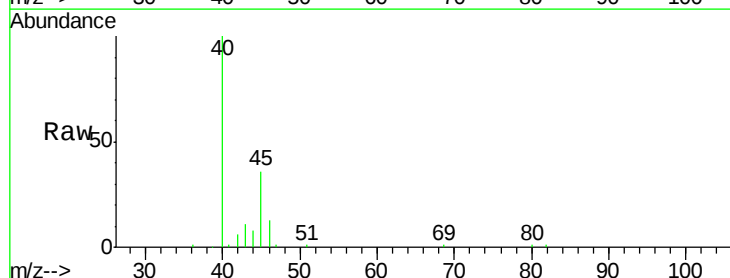
Acq: 20 Mar 2019 19:47

Tgt Ion: 45 Resp: 20940

Ion Ratio Lower Upper

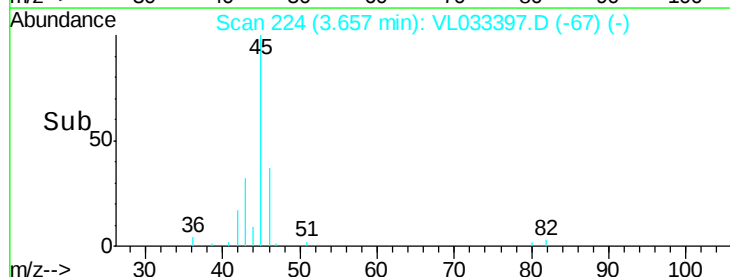
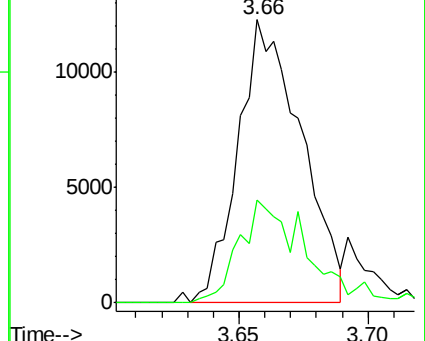
45 100

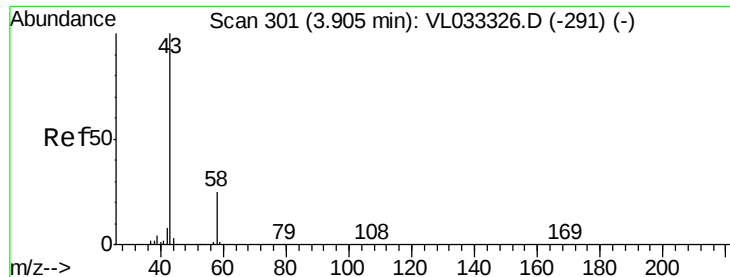
46 40.0 14.9 59.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.511 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033397.D

Acq: 20 Mar 2019 19:47

Instrument :

MSVOA_L

ClientSampleId :

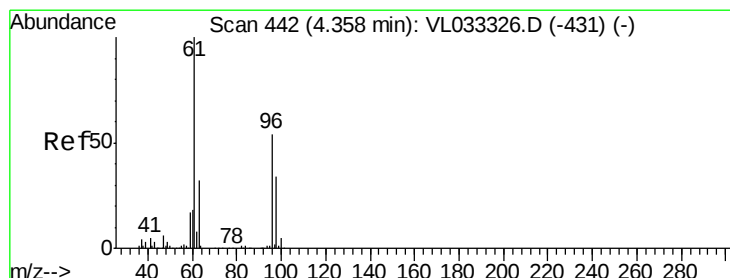
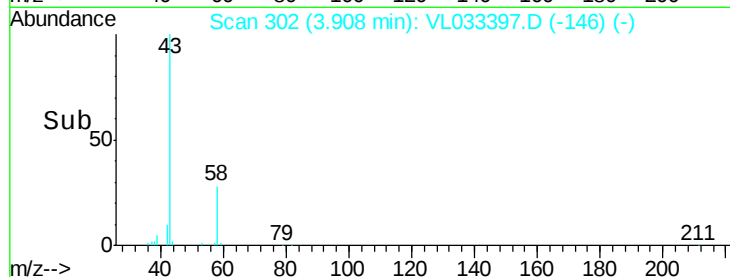
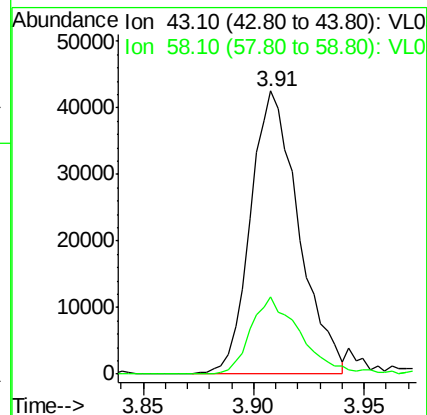
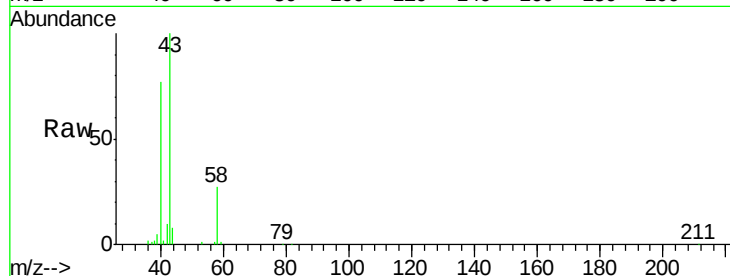
QA1DL

Tgt Ion: 43 Resp: 64398

Ion Ratio Lower Upper

43 100

58 28.7 20.4 30.6



#17

tert-Butyl alcohol

Concen: 0.056 ppbv

RT: 4.38 min Scan# 450

Delta R.T. 0.03 min

Lab File: VL033397.D

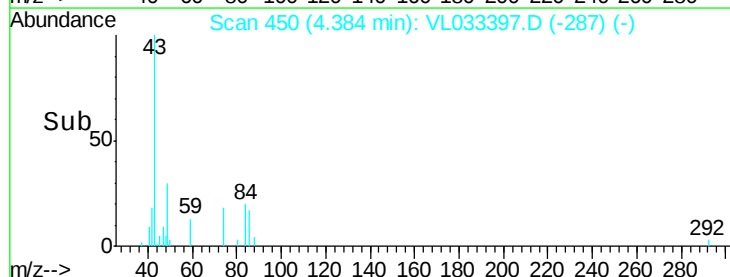
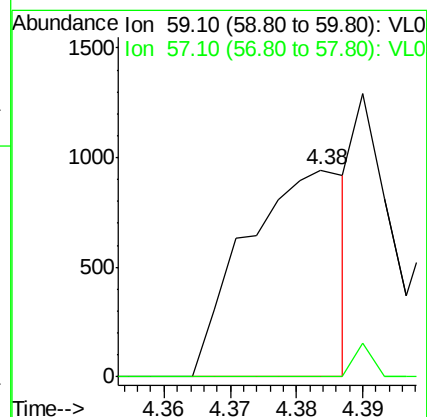
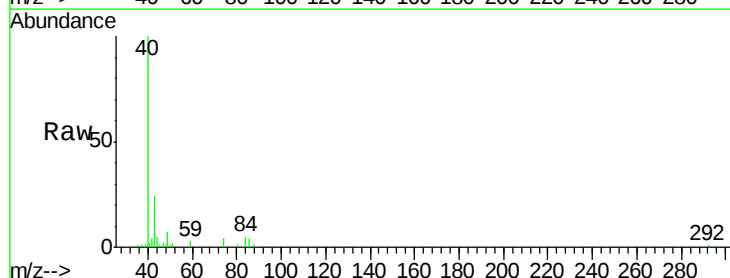
Acq: 20 Mar 2019 19:47

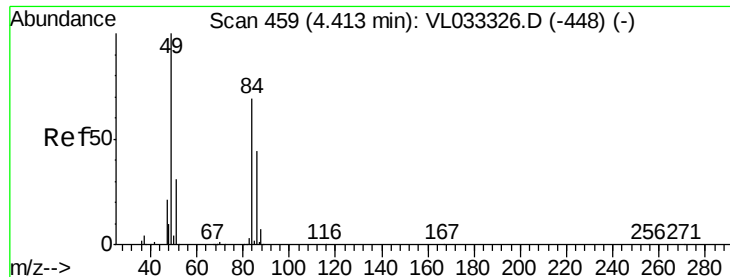
Tgt Ion: 59 Resp: 993

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#

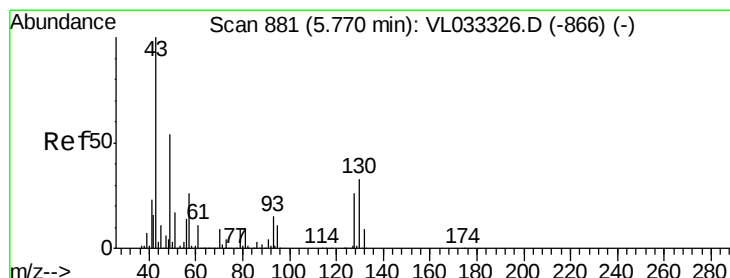
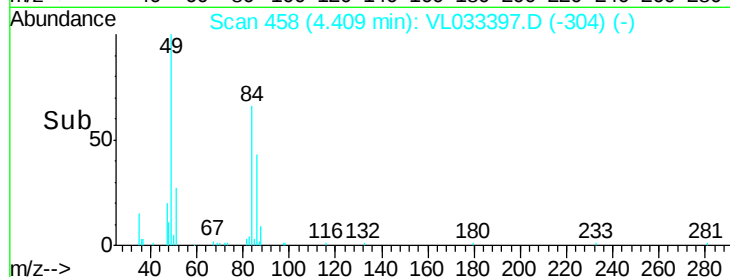
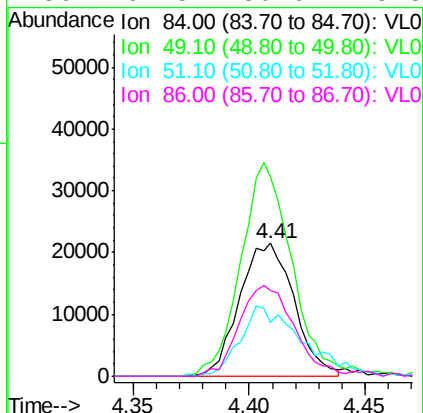
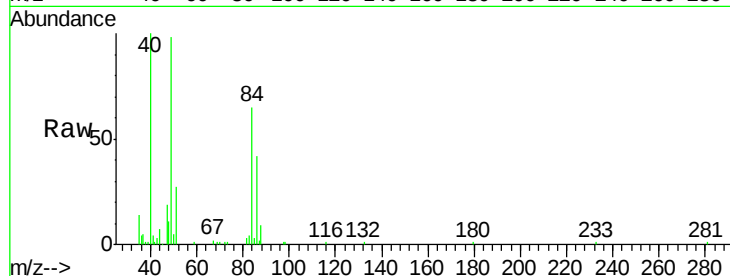




#20
Methylene Chloride
Concen: 0.852 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033397.D
Acq: 20 Mar 2019 19:47

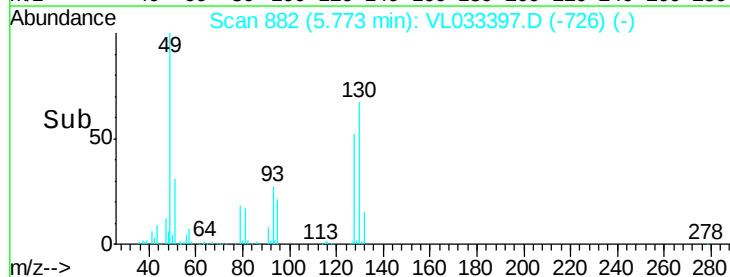
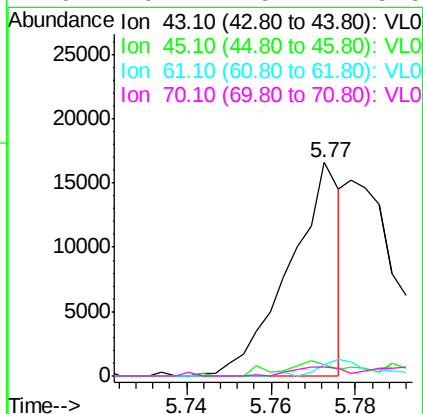
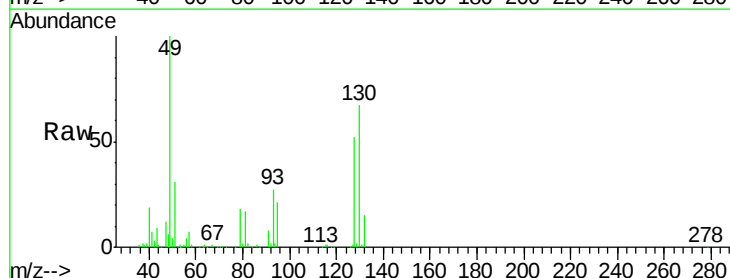
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

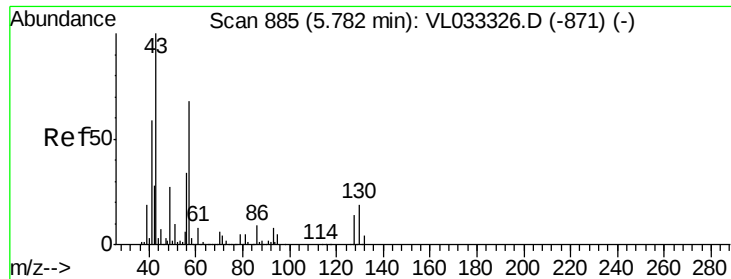
Tgt Ion:	84	Resp:	35046
Ion	Ratio	Lower	Upper
84	100		
49	157.1	115.4	173.0
51	39.2	35.8	53.6
86	64.5	50.6	75.8



#25
Ethyl Acetate
Concen: 0.076 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033397.D
Acq: 20 Mar 2019 19:47

Tgt Ion:	43	Resp:	13876
Ion	Ratio	Lower	Upper
43	100		
45	13.7	7.9	11.9#
61	9.7	7.4	11.2
70	9.1	5.7	8.5#

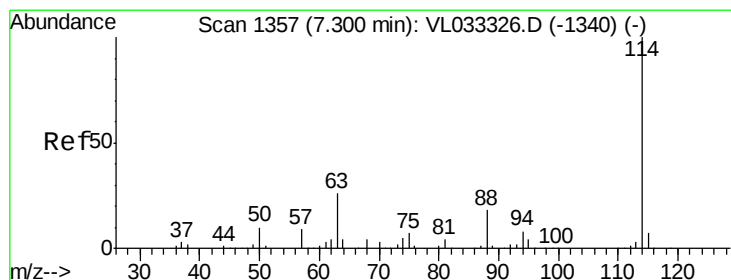
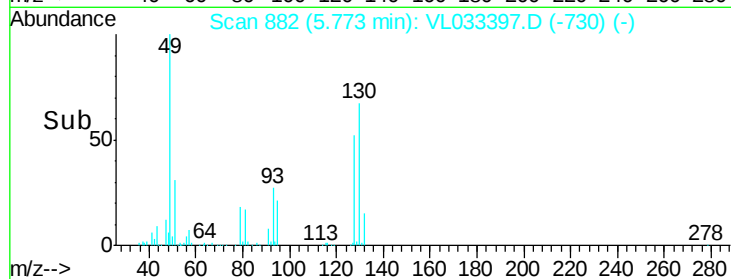
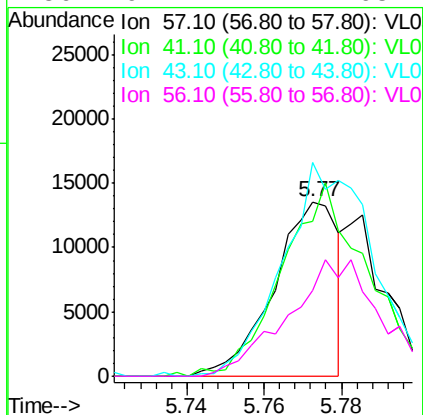
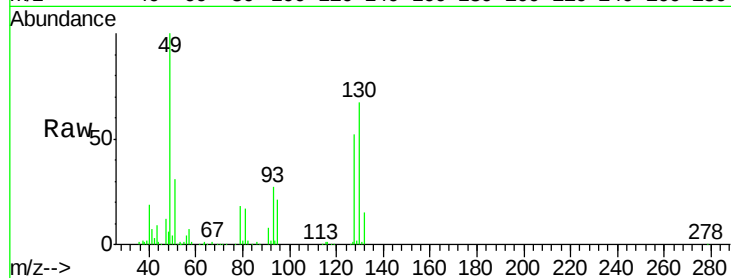




#26
Hexane
Concen: 0.190 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.01 min
Lab File: VL033397.D
Acq: 20 Mar 2019 19:47

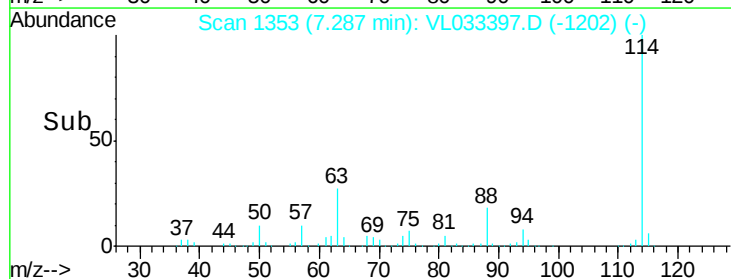
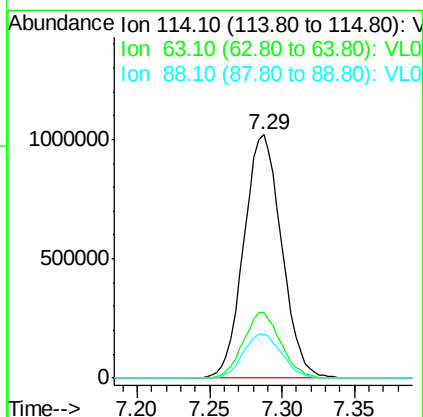
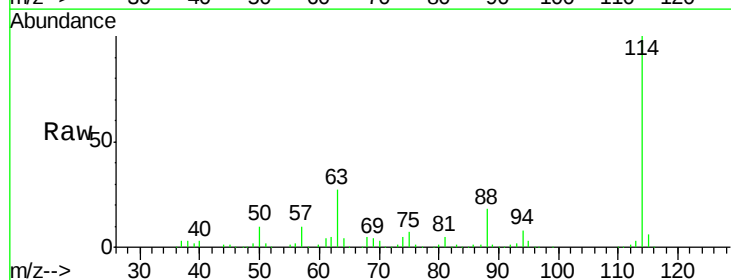
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

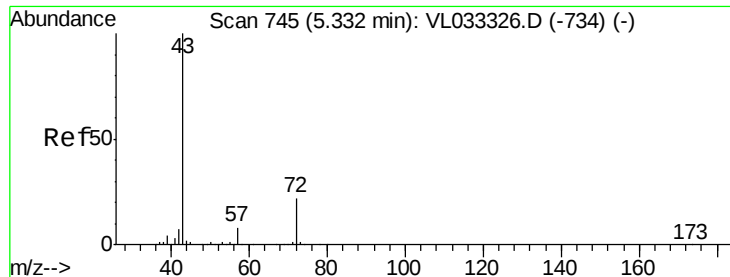
Tgt Ion: 57 Resp: 15560
Ion Ratio Lower Upper
57 100
41 149.4 70.5 105.7#
43 179.2 181.8 272.8#
56 94.7 42.2 63.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033397.D
Acq: 20 Mar 2019 19:47

Tgt Ion: 114 Resp: 1850653
Ion Ratio Lower Upper
114 100
63 26.9 21.4 32.2
88 18.5 14.5 21.7

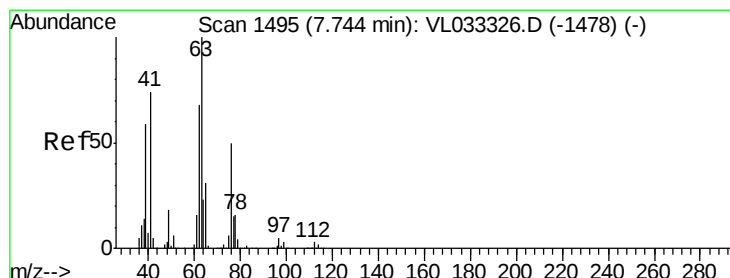
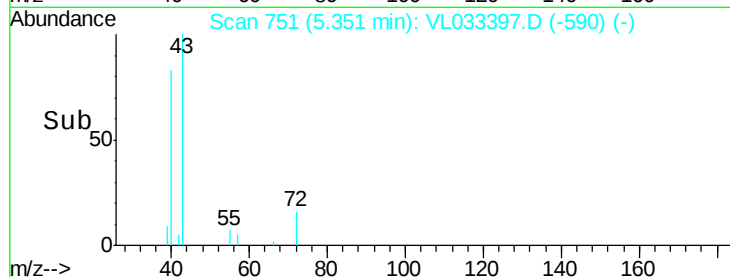
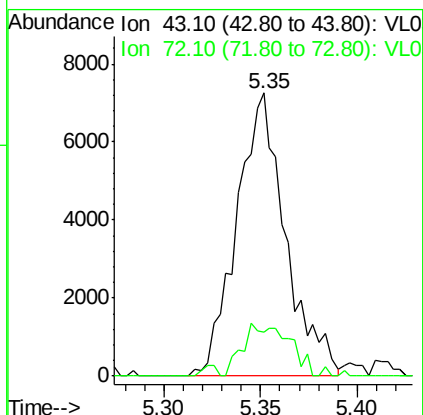
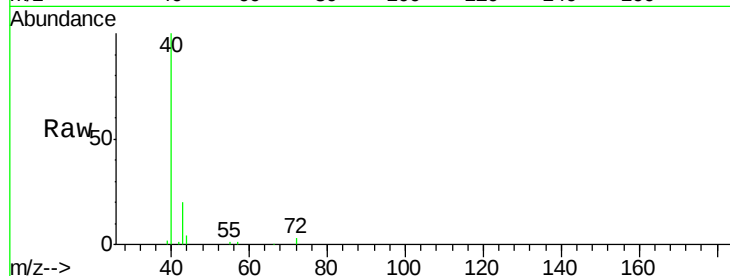




#34
2-Butanone
Concen: 0.105 ppbv
RT: 5.35 min Scan# 751
Delta R.T. 0.02 min
Lab File: VL033397.D
Acq: 20 Mar 2019 19:47

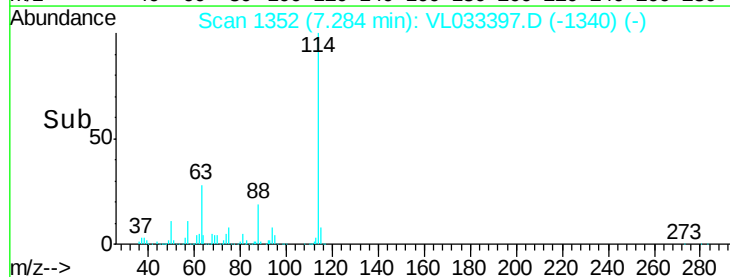
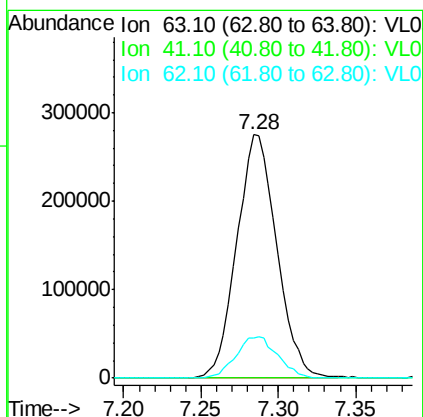
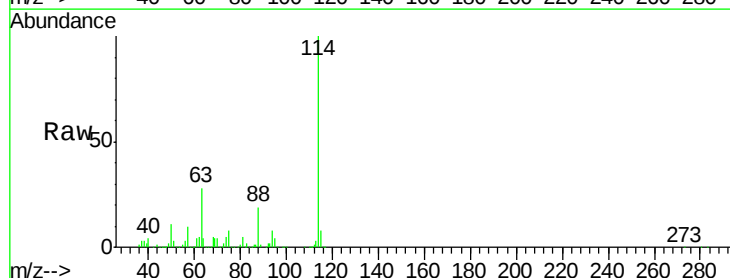
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

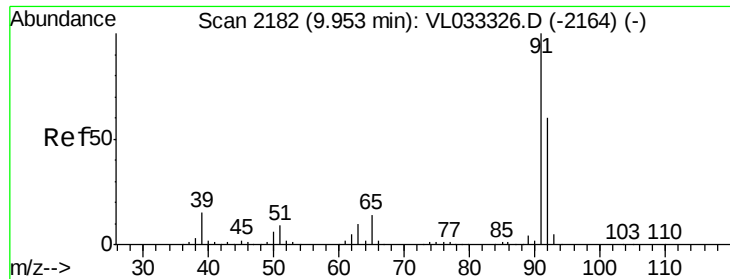
Tgt Ion: 43 Resp: 12778
Ion Ratio Lower Upper
43 100
72 19.3 17.7 26.5



#39
1,2-Dichloropropane
Concen: 7.969 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.46 min
Lab File: VL033397.D
Acq: 20 Mar 2019 19:47

Tgt Ion: 63 Resp: 494264
Ion Ratio Lower Upper
63 100
41 0.0 59.5 89.3#
62 16.7 54.7 82.1#





#53

Toluene

Concen: 0.058 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033397.D

Acq: 20 Mar 2019 19:47

Instrument :

MSVOA_L

ClientSampleId :

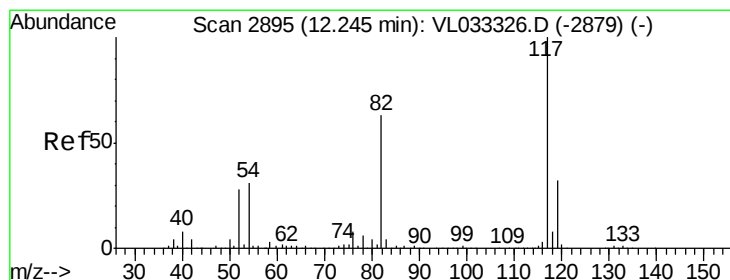
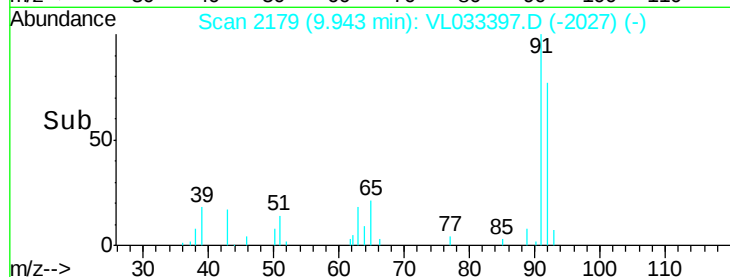
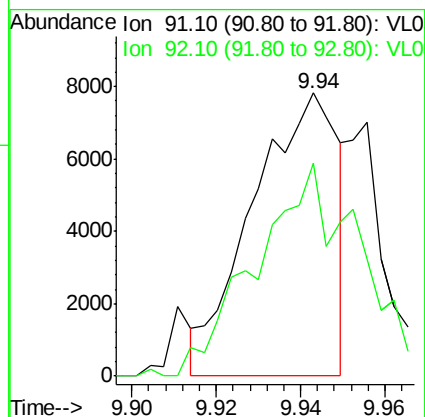
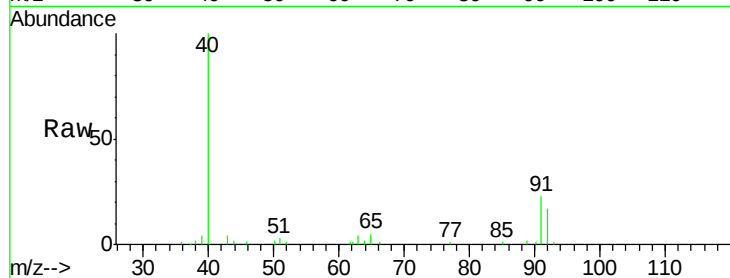
QA1DL

Tgt Ion: 91 Resp: 10942

Ion Ratio Lower Upper

91 100

92 93.8 47.4 71.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033397.D

Acq: 20 Mar 2019 19:47

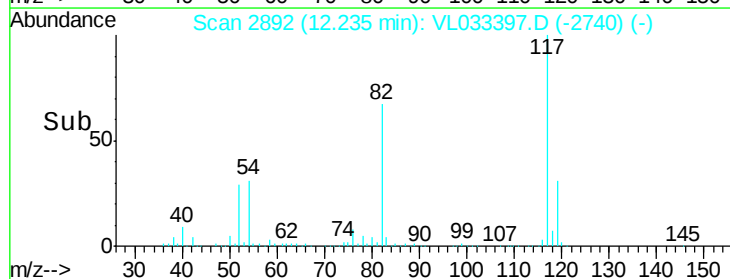
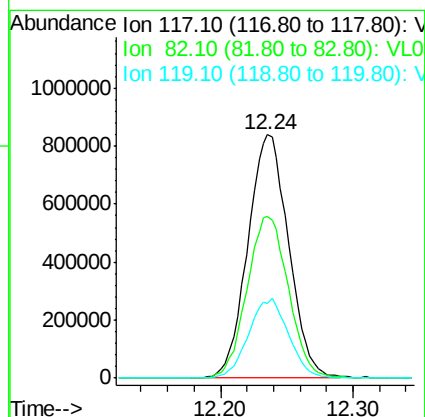
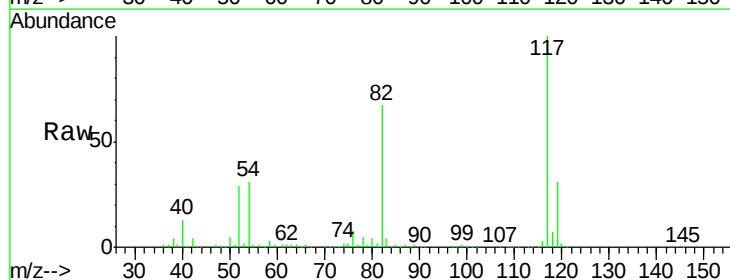
Tgt Ion: 117 Resp: 1791515

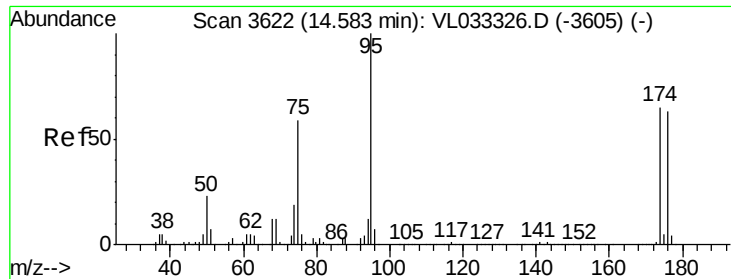
Ion Ratio Lower Upper

117 100

82 68.1 53.4 80.2

119 32.3 27.3 40.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.214 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033397.D
 Acq: 20 Mar 2019 19:47

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Tgt Ion: 95 Resp: 1355907
 Ion Ratio Lower Upper
 95 100
 174 65.0 51.5 77.3
 175 4.9 3.8 5.6

