

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033455.D
 Acq On : 26 Mar 2019 3:25
 Operator : SY/AP
 Sample : K1991-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL

Quant Time: Mar 26 07:18:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019
 QLast Update : Mon Mar 25 16:04:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	789203	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1899631	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1906535	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1450568	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

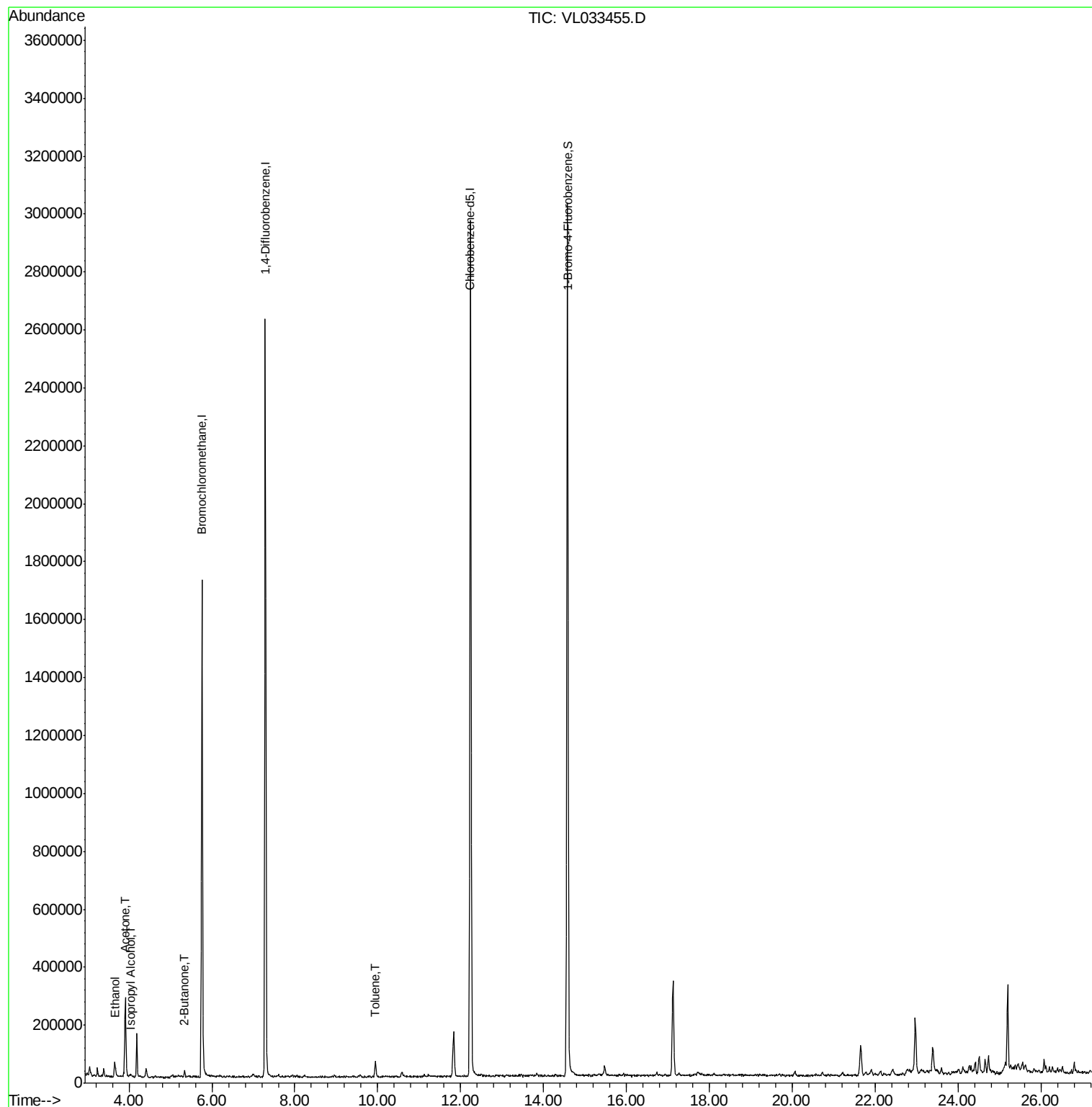
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.66	45	59629	6.623	ppbv	63
15) Acetone	3.90	43	301675	3.179	ppbv	98
19) Isopropyl Alcohol	4.04	45	10344	0.172	ppbv #	1
34) 2-Butanone	5.34	43	24172	0.212	ppbv	97
53) Toluene	9.94	91	39413	0.213	ppbv	99

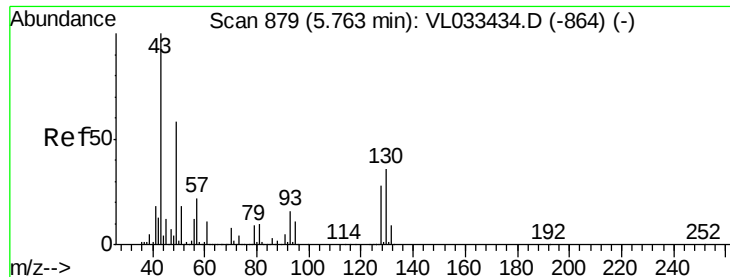
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033455.D

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Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

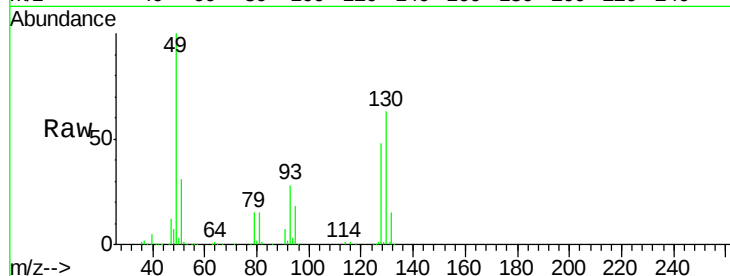
Tot Ion: 49 Resp: 789203

Ion Ratio Lower Upper

49 100

128 49.7 24.0 72.0

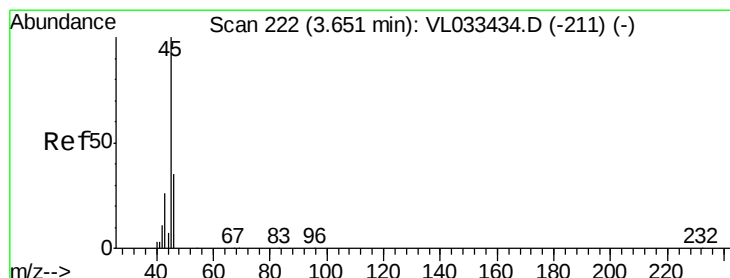
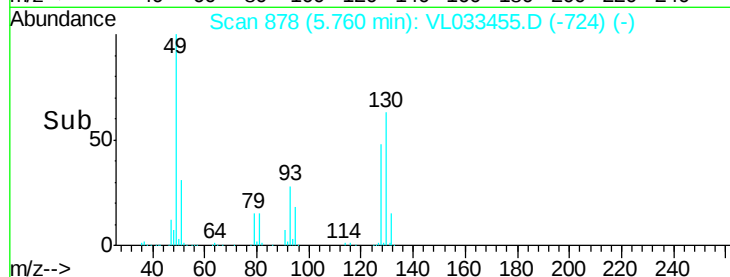
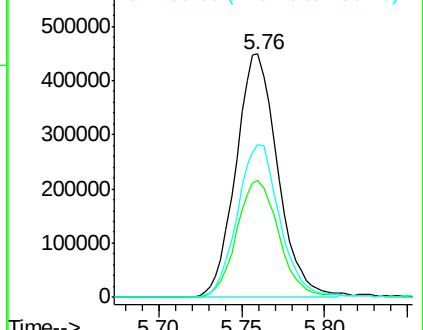
130 64.2 31.2 93.6



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



#13

Ethanol

Concen: 6.623 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033455.D

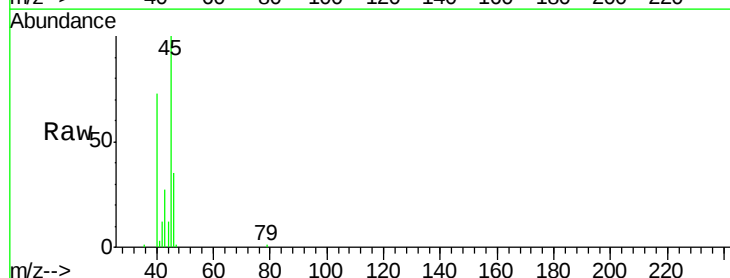
Acq: 26 Mar 2019 3:25

Tgt Ion: 45 Resp: 59629

Ion Ratio Lower Upper

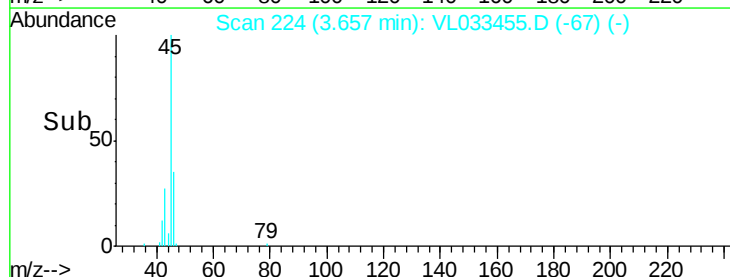
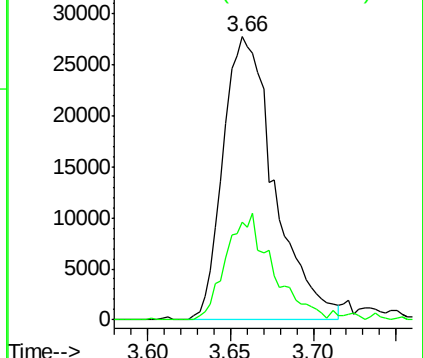
45 100

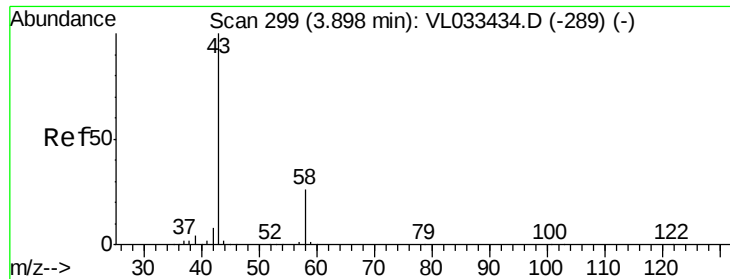
46 34.5 25.4 101.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 3.179 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033455.D

Acq: 26 Mar 2019 3:25

Instrument :

MSVOA_L

ClientSampleId :

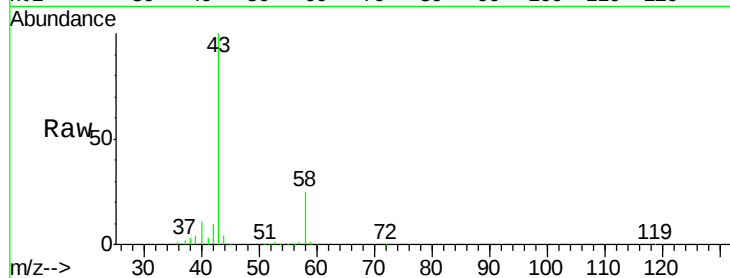
IA-3DL

Tot Ion: 43 Resp: 301675

Ion Ratio Lower Upper

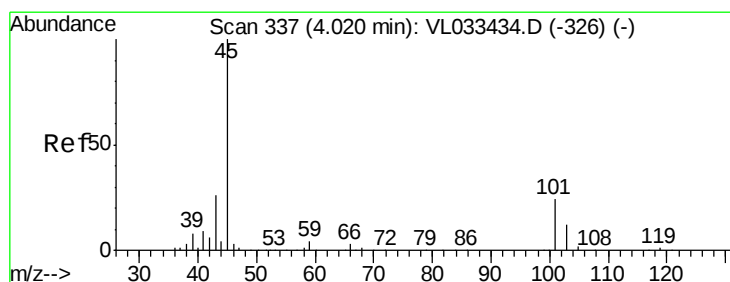
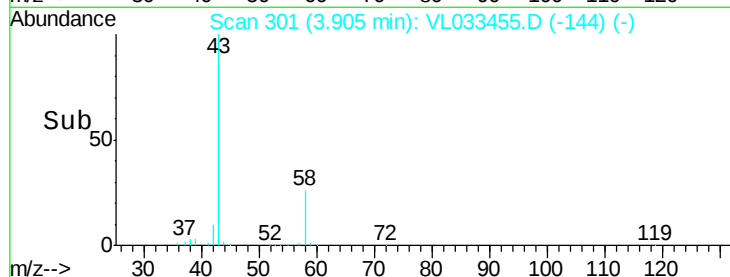
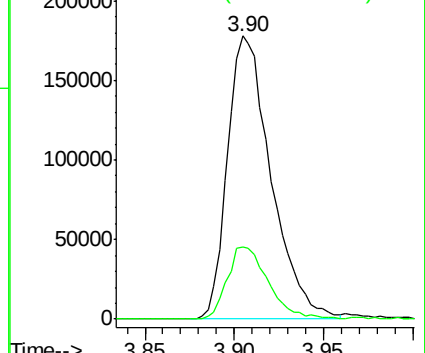
43 100

58 24.6 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.172 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL033455.D

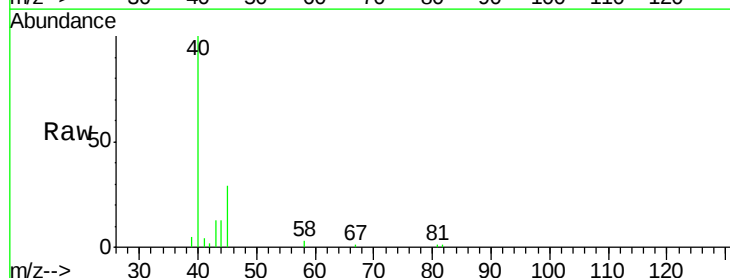
Acq: 26 Mar 2019 3:25

Tgt Ion: 45 Resp: 10344

Ion Ratio Lower Upper

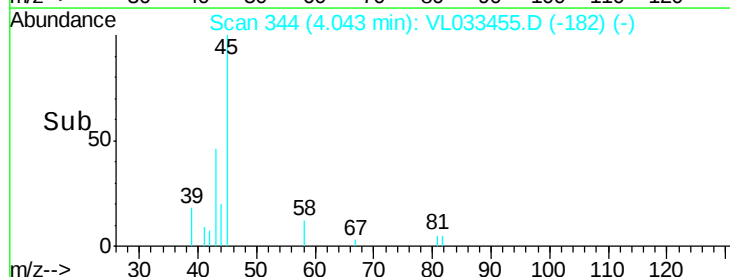
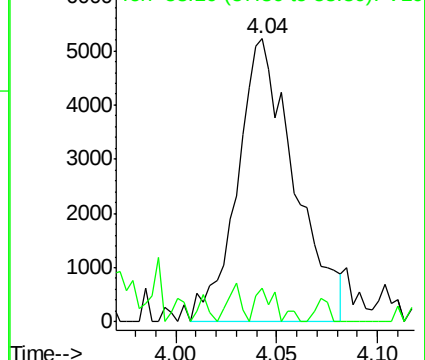
45 100

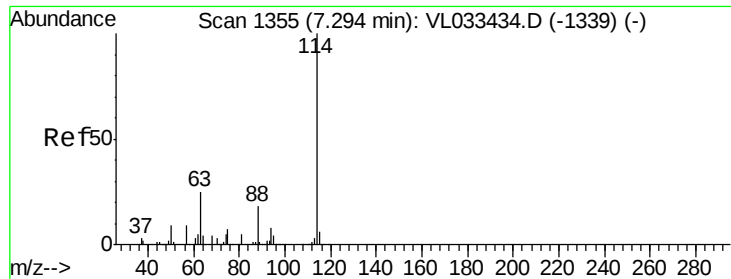
58 714.3 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

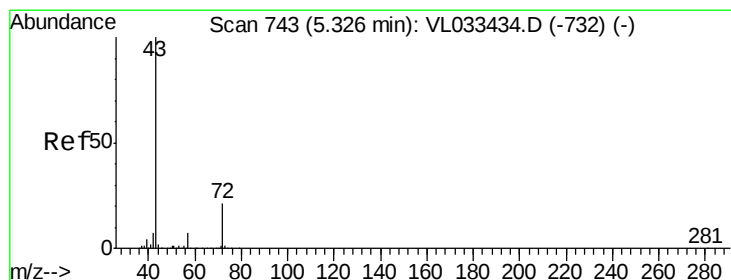
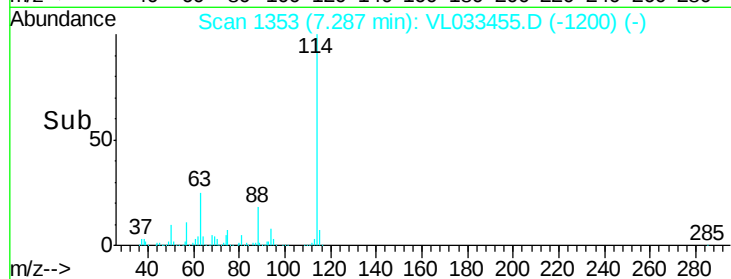
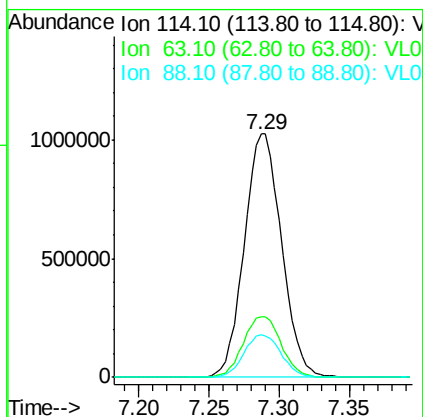
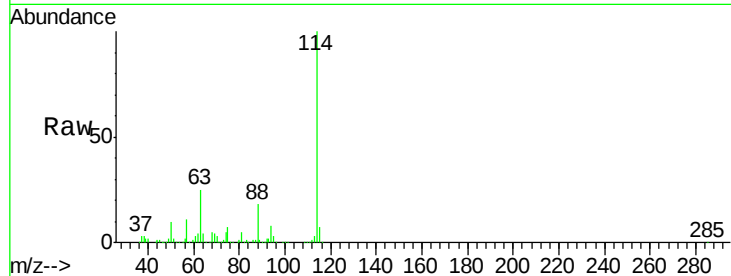




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033455.D
 Acq: 26 Mar 2019 3:25

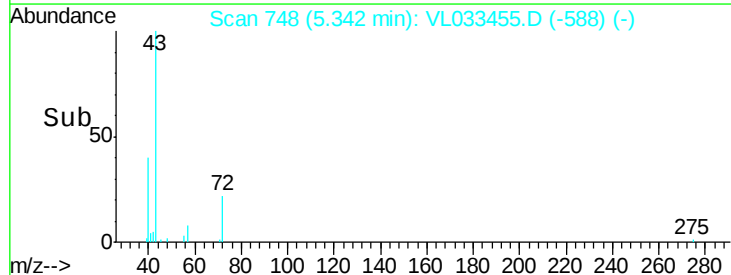
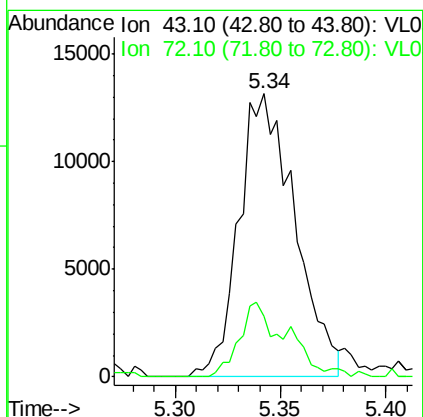
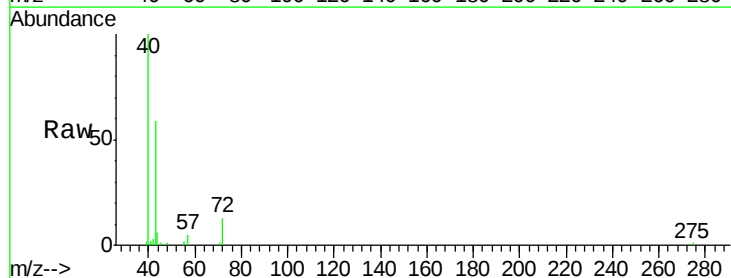
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL

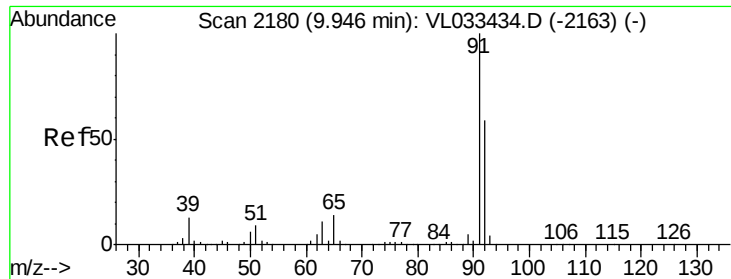
Tot Ion:114 Resp: 1899631
 Ion Ratio Lower Upper
 114 100
 63 25.5 21.5 32.3
 88 17.7 14.5 21.7



#34
 2-Butanone
 Concen: 0.212 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.02 min
 Lab File: VL033455.D
 Acq: 26 Mar 2019 3:25

Tgt Ion: 43 Resp: 24172
 Ion Ratio Lower Upper
 43 100
 72 23.1 17.4 26.2





#53

Toluene

Concen: 0.213 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033455.D

Acq: 26 Mar 2019 3:25

Instrument :

MSVOA_L

ClientSampleId :

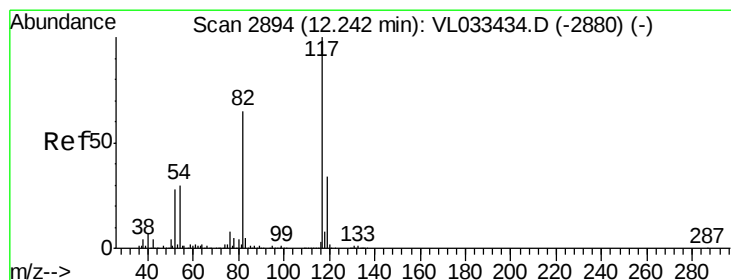
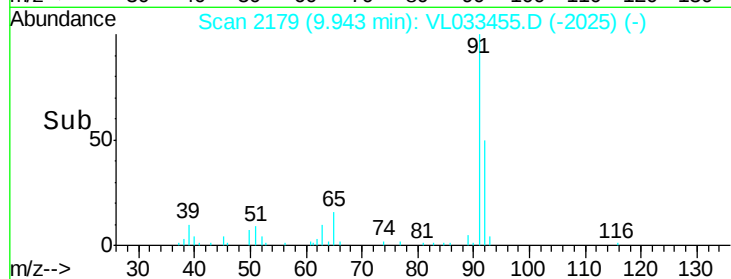
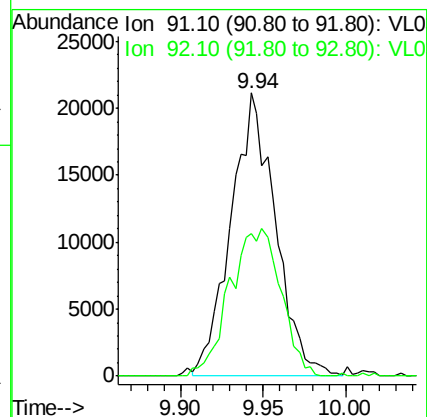
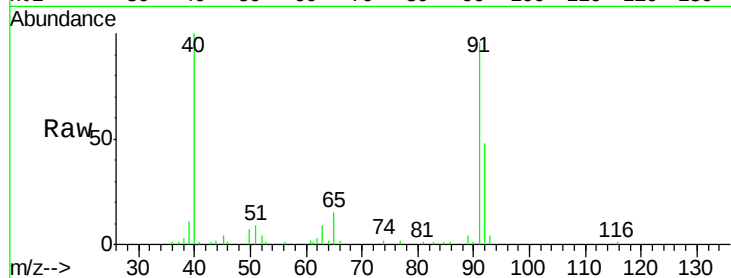
IA-3DL

Tot Ion: 91 Resp: 39413

Ion Ratio Lower Upper

91 100

92 60.0 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: VL033455.D

Acq: 26 Mar 2019 3:25

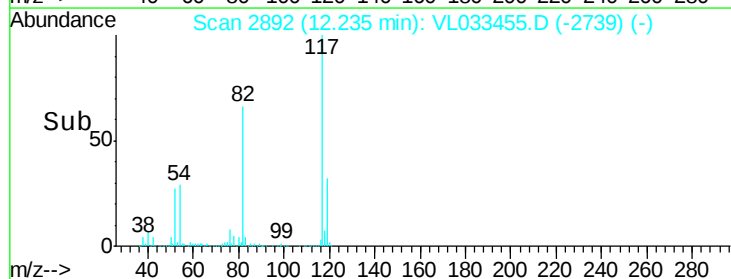
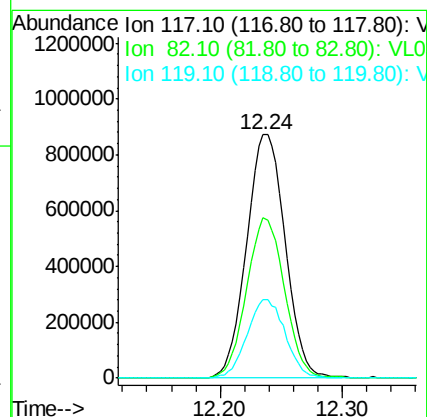
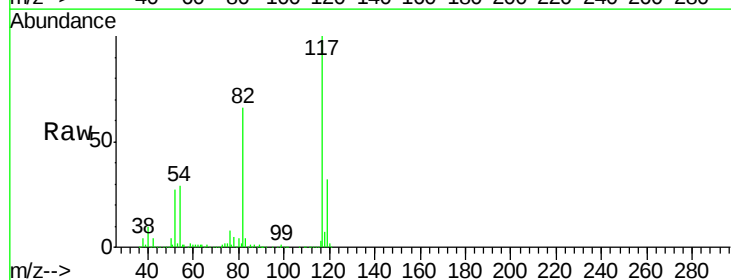
Tgt Ion: 117 Resp: 1906535

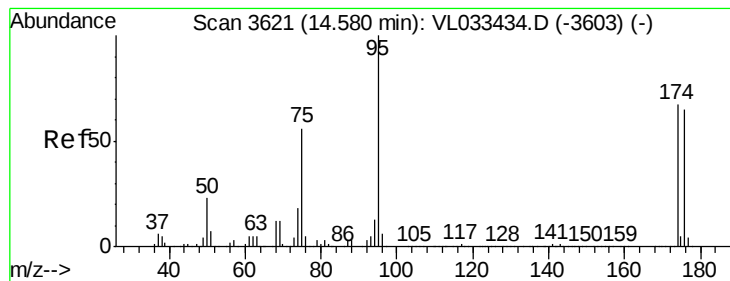
Ion Ratio Lower Upper

117 100

82 65.1 51.5 77.3

119 32.0 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.705 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033455.D

Acq: 26 Mar 2019 3:25

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

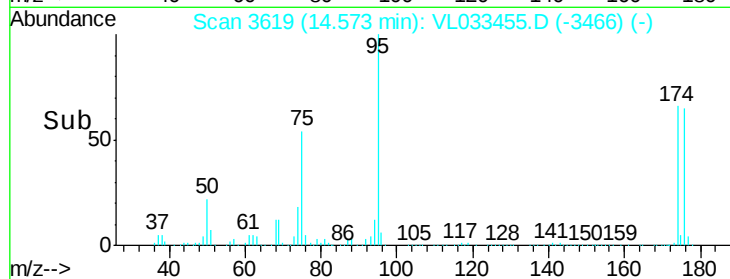
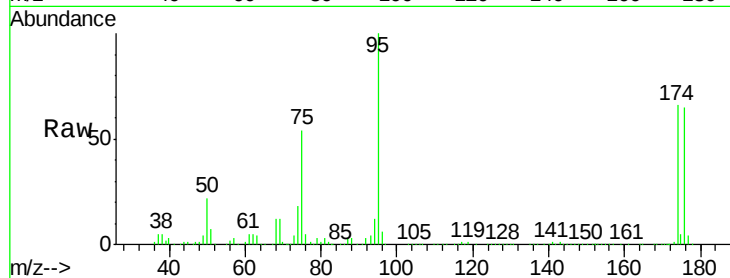
Tot Ion: 95 Resp: 1450568

Ion Ratio Lower Upper

95 100

174 67.9 52.9 79.3

175 4.8 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

