

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033918.D
 Acq On : 14 Jun 2019 4:48
 Operator : SY/AP
 Sample : K3367-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2-2NDFLRDL

Quant Time: Jun 14 09:14:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	890569	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2020801	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.22	117	1882132	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1564818	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

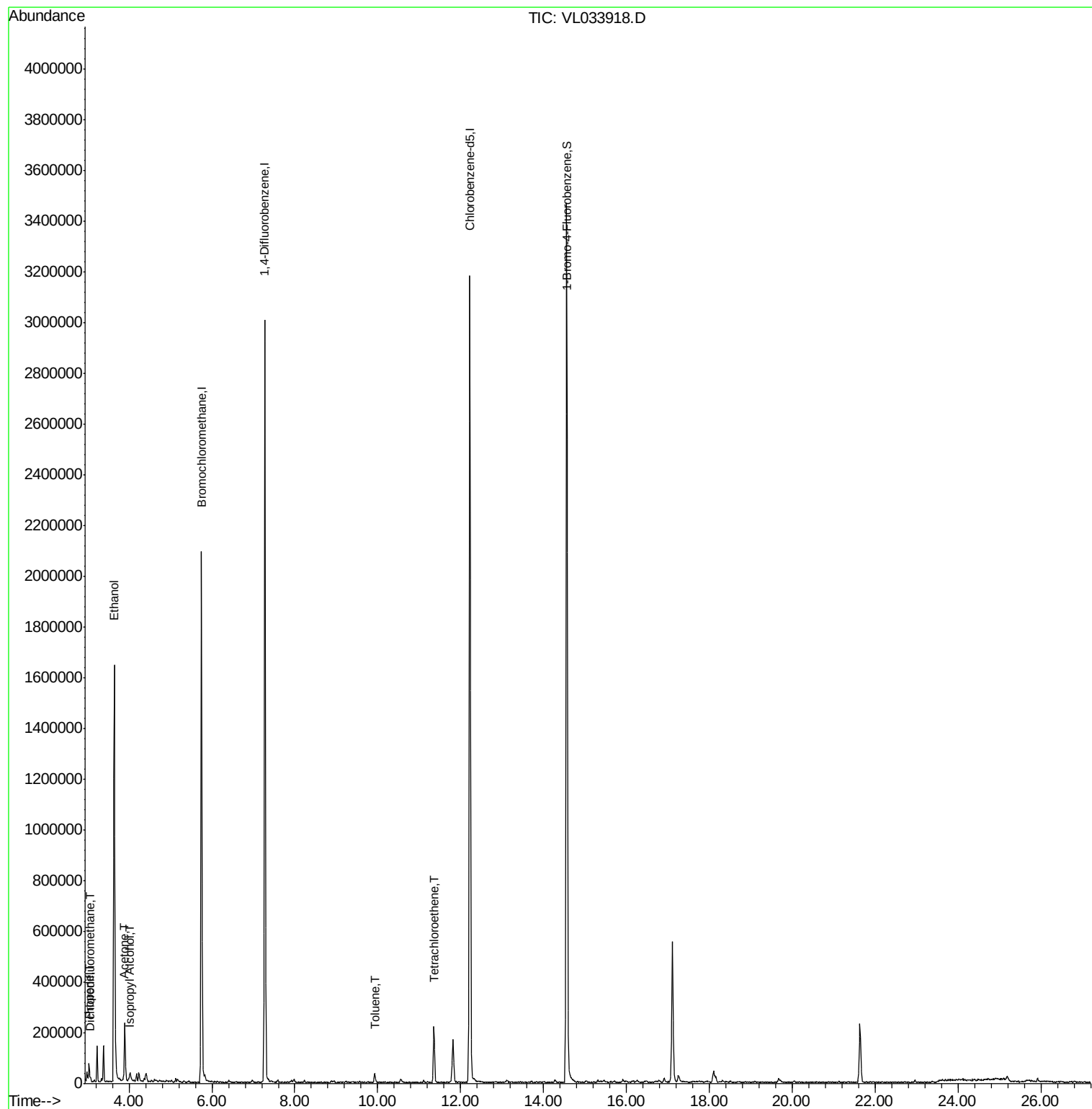
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	14205	0.098	ppbv	98
9) Propene	3.04	41	14910	0.380	ppbv	88
13) Ethanol	3.64	45	1764303	138.230	ppbv	97
15) Acetone	3.89	43	218330	1.681	ppbv	97
19) Isopropyl Alcohol	4.02	45	35217	0.475	ppbv #	86
52) Tetrachloroethene	11.35	164	51849	0.955	ppbv	90
53) Toluene	9.92	91	23783	0.139	ppbv	100

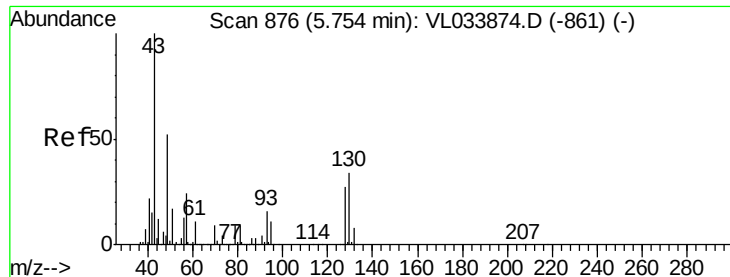
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061319\
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QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 874

Delta R.T. -0.01 min

Lab File: VL033918.D

Acq: 14 Jun 2019 4:48

Instrument :

MSVOA_L

ClientSampleId :

IA2-2NDFLRDL

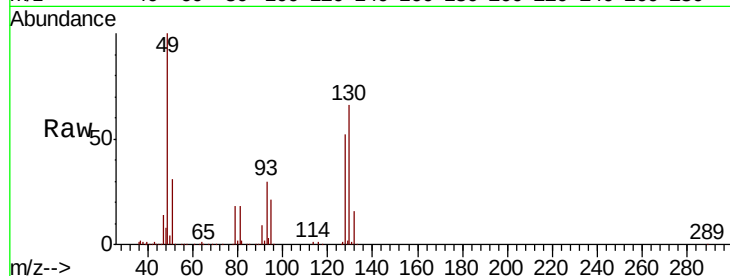
Tot Ion: 49 Resp: 890569

Ion Ratio Lower Upper

49 100

128 51.2 25.5 76.5

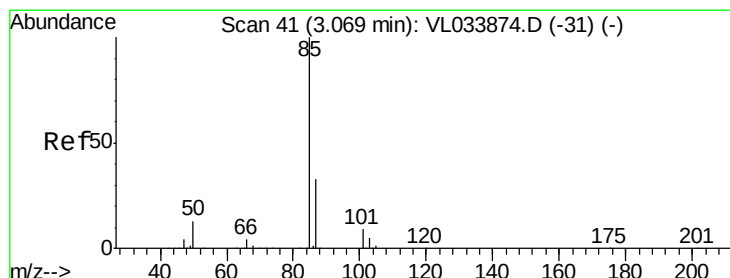
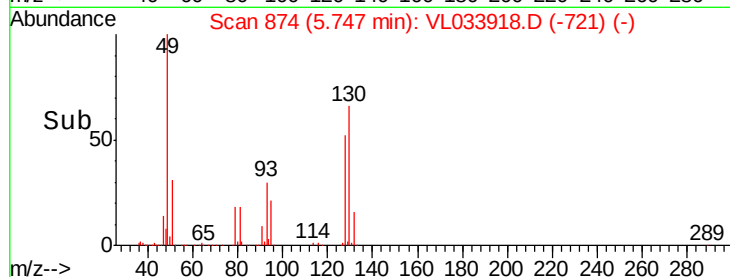
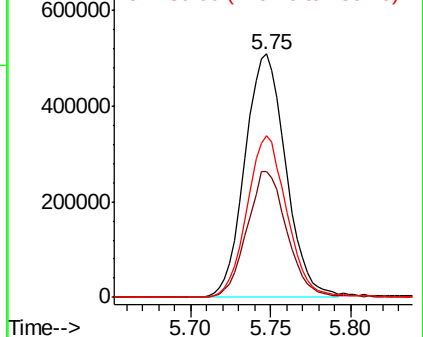
130 65.4 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.098 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033918.D

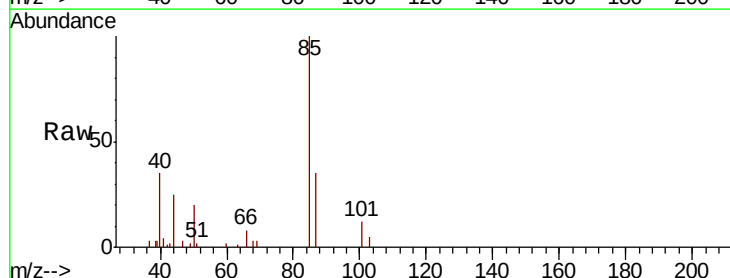
Acq: 14 Jun 2019 4:48

Tgt Ion: 85 Resp: 14205

Ion Ratio Lower Upper

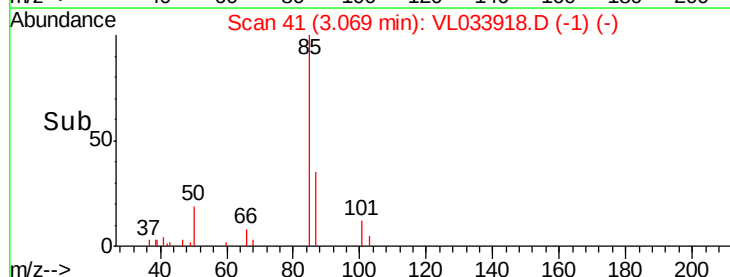
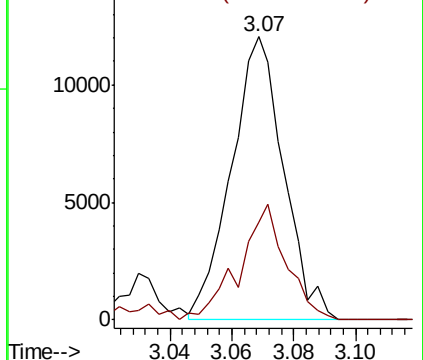
85 100

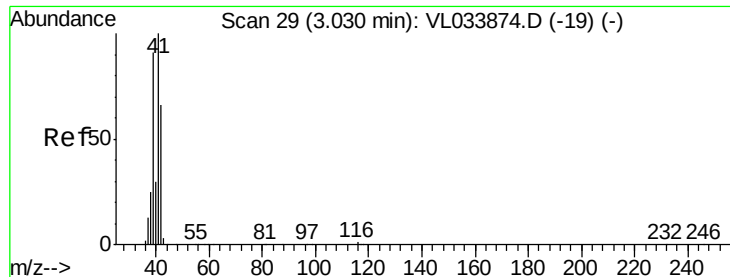
87 34.5 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.380 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033918.D

Acq: 14 Jun 2019 4:48

Instrument :

MSVOA_L

ClientSampleId :

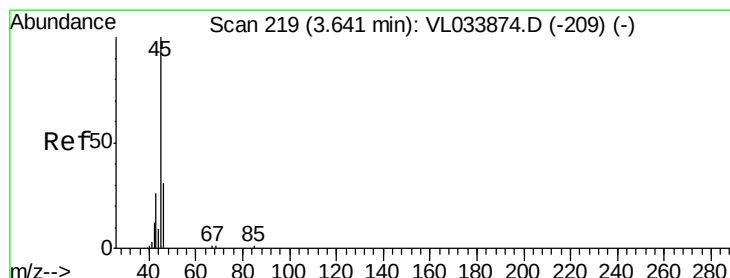
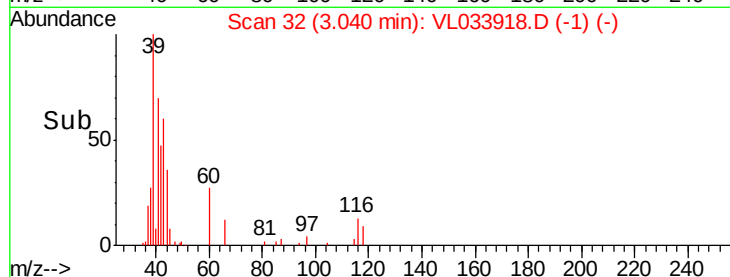
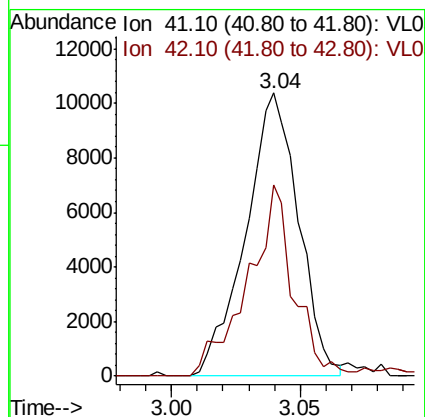
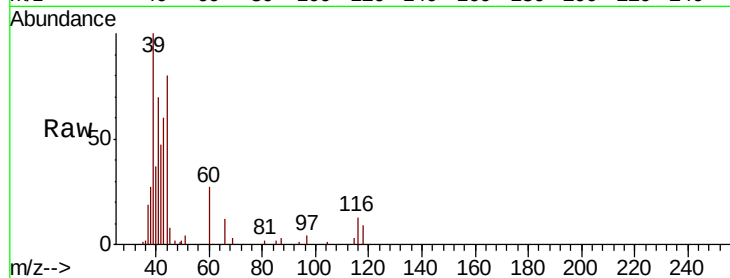
IA2-2NDFLRDL

Tot Ion: 41 Resp: 14910

Ion Ratio Lower Upper

41 100

42 60.7 56.3 84.5



#13

Ethanol

Concen: 138.230 ppbv

RT: 3.64 min Scan# 219

Delta R.T. -0.00 min

Lab File: VL033918.D

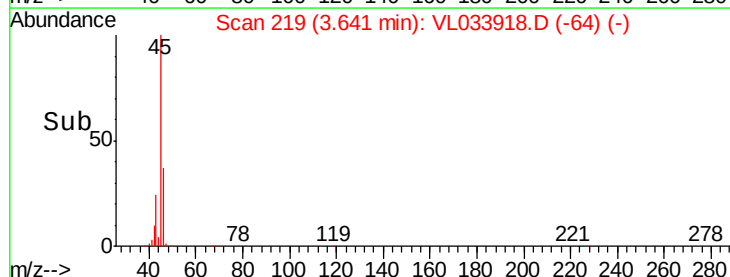
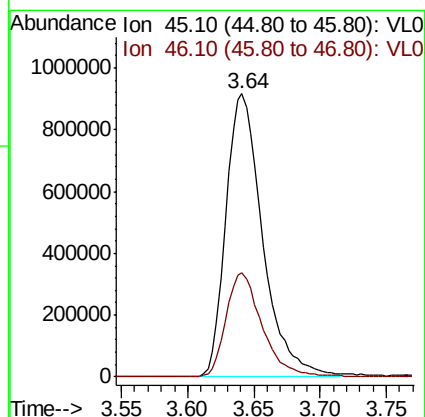
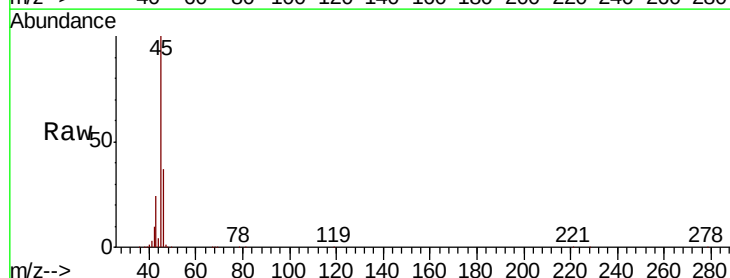
Acq: 14 Jun 2019 4:48

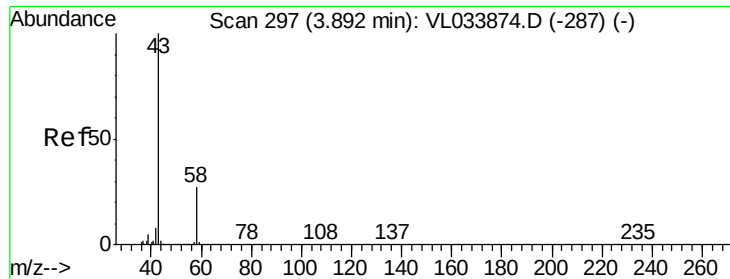
Tgt Ion: 45 Resp: 1764303

Ion Ratio Lower Upper

45 100

46 36.6 15.3 61.1





#15

Acetone

Concen: 1.681 ppbv

RT: 3.89 min Scan# 298

Delta R.T. 0.00 min

Lab File: VL033918.D

Acq: 14 Jun 2019 4:48

Instrument :

MSVOA_L

ClientSampleId :

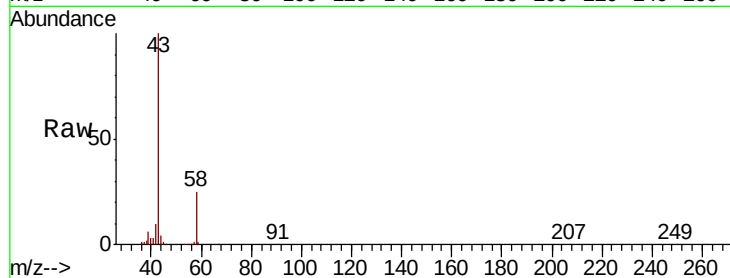
IA2-2NDFLRDL

Tot Ion: 43 Resp: 218330

Ion Ratio Lower Upper

43 100

58 24.9 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.89

150000

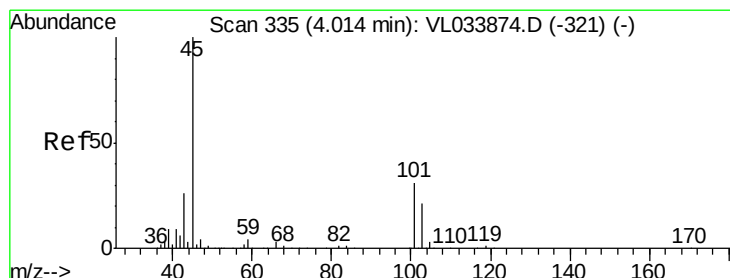
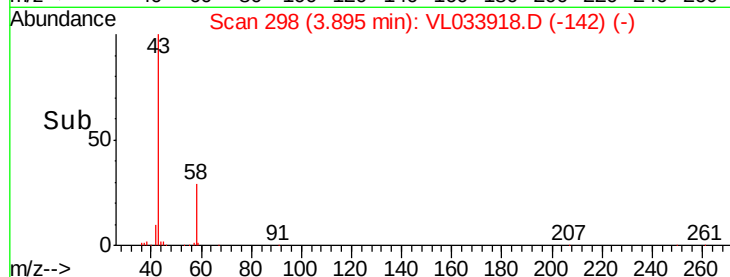
100000

50000

0

Time-->

3.85 3.90 3.95



#19

Isopropyl Alcohol

Concen: 0.475 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.01 min

Lab File: VL033918.D

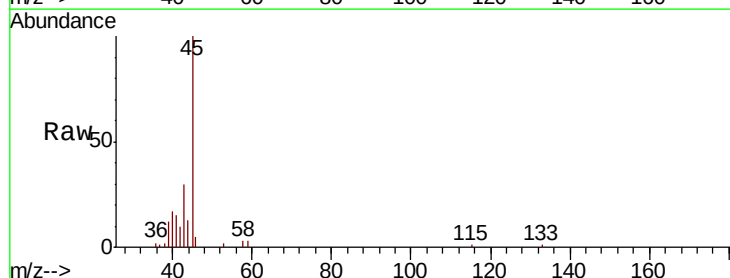
Acq: 14 Jun 2019 4:48

Tgt Ion: 45 Resp: 35217

Ion Ratio Lower Upper

45 100

58 7.0 1.8 2.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

20000

15000

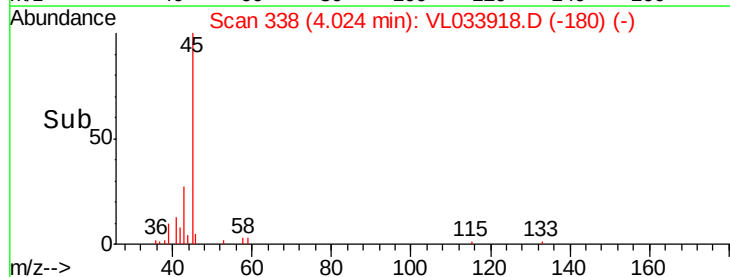
10000

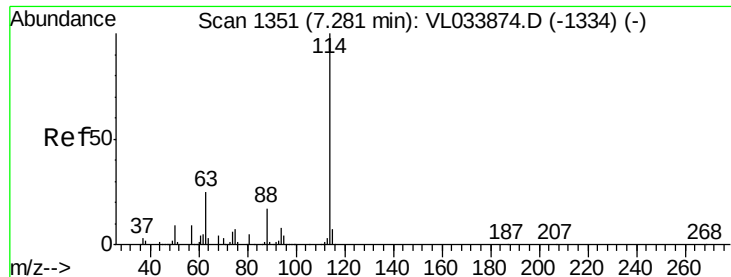
5000

0

Time-->

4.00 4.05

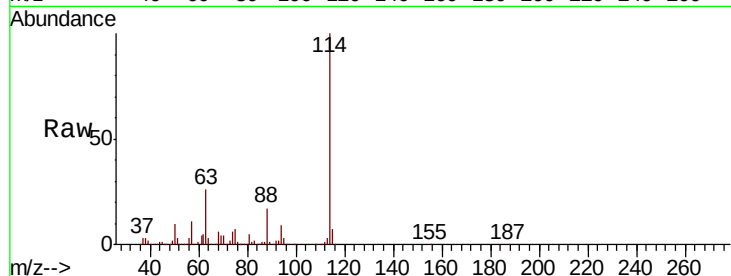




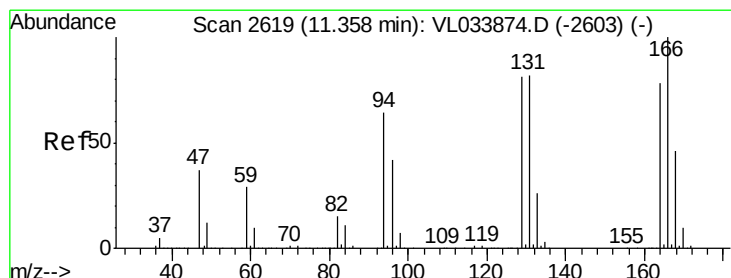
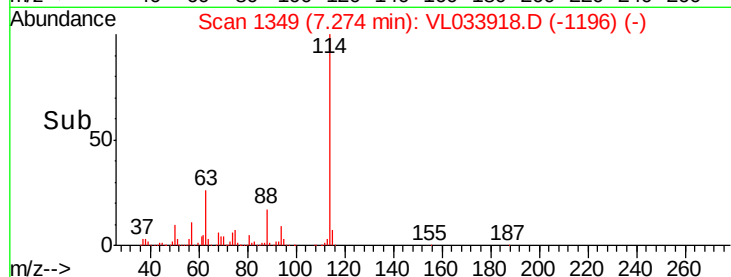
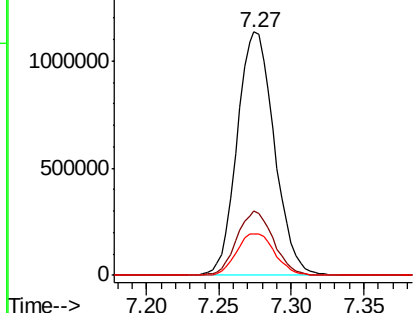
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.27 min Scan# 1349
 Delta R.T. -0.01 min
 Lab File: VL033918.D
 Acq: 14 Jun 2019 4:48

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2-2NDFLRDL

Tot Ion:114 Resp: 2020801
 Ion Ratio Lower Upper
 114 100
 63 26.2 21.1 31.7
 88 17.7 14.2 21.4

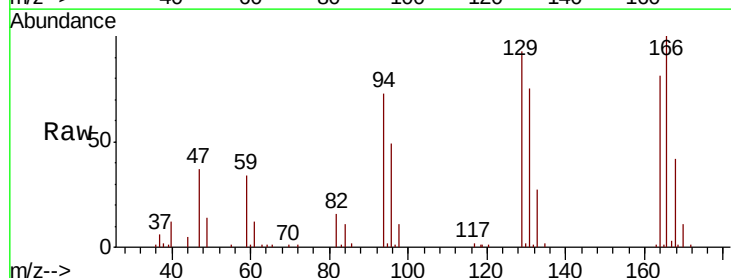


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

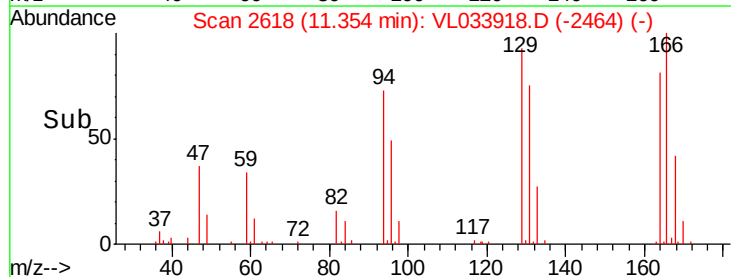
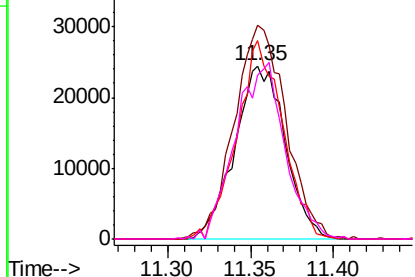


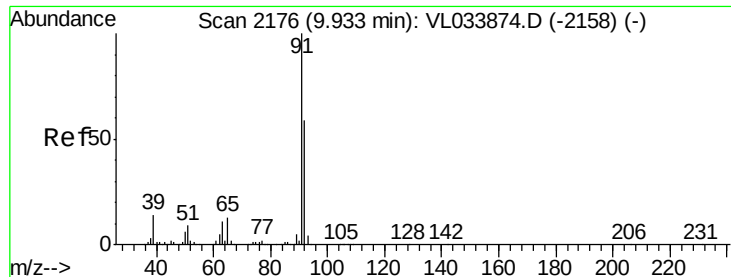
#52
 Tetrachloroethene
 Concen: 0.955 ppbv
 RT: 11.35 min Scan# 2618
 Delta R.T. -0.00 min
 Lab File: VL033918.D
 Acq: 14 Jun 2019 4:48

Tgt Ion:164 Resp: 51849
 Ion Ratio Lower Upper
 164 100
 166 122.2 103.1 154.7
 129 117.3 83.9 125.9
 131 93.4 85.1 127.7



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: 0.139 ppbv

RT: 9.92 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VL033918.D

Acq: 14 Jun 2019 4:48

Instrument :

MSVOA_L

ClientSampleId :

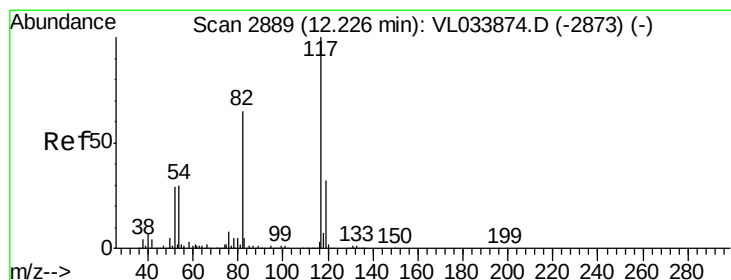
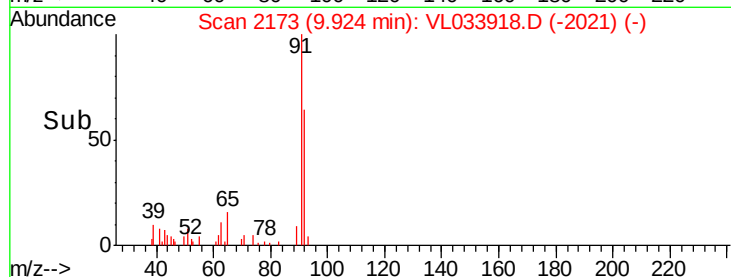
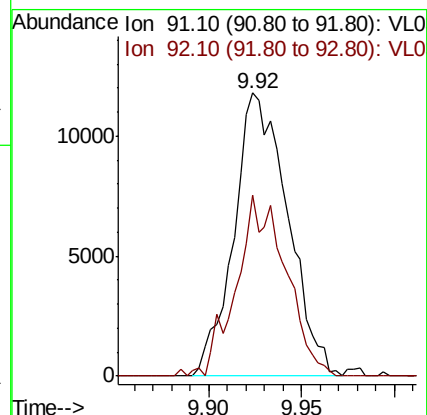
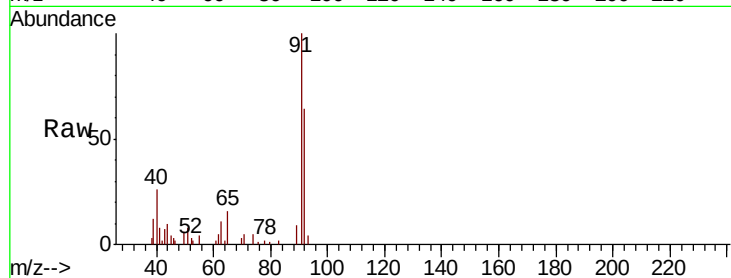
IA2-2NDFLRDL

Tot Ion: 91 Resp: 23783

Ion Ratio Lower Upper

91 100

92 58.5 47.0 70.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.22 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL033918.D

Acq: 14 Jun 2019 4:48

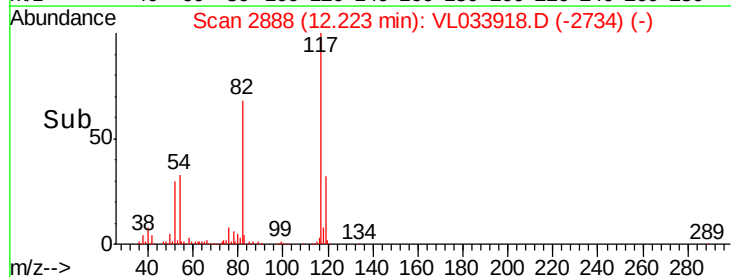
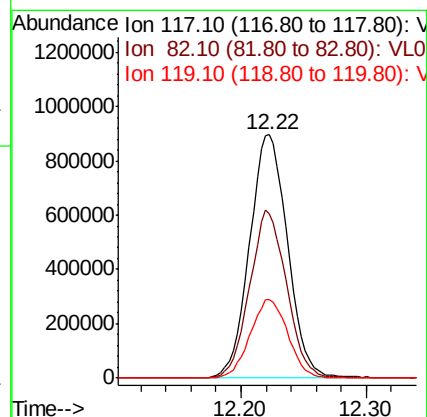
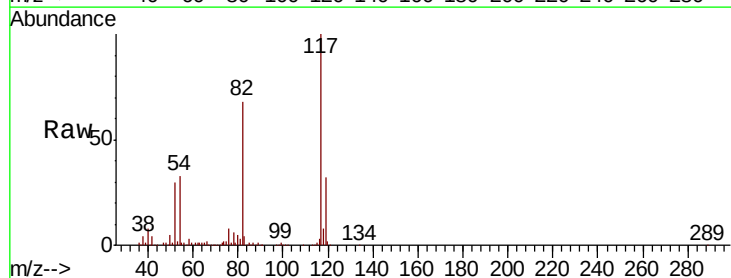
Tgt Ion: 117 Resp: 1882132

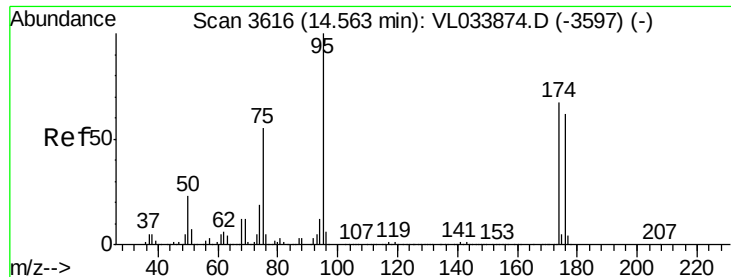
Ion Ratio Lower Upper

117 100

82 67.8 50.2 75.2

119 32.3 24.8 37.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.122 ppbv
 RT: 14.56 min Scan# 3615
 Delta R.T. -0.00 min
 Lab File: VL033918.D
 Acq: 14 Jun 2019 4:48

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2-2NDFLRDL

Tot Ion: 95 Resp: 1564818
 Ion Ratio Lower Upper
 95 100
 174 66.1 54.0 81.0
 175 4.8 3.8 5.8

