

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\
 Data File : VL032343.D
 Acq On : 2 Aug 2018 4:39
 Operator : SY/AP
 Sample : J4258-02DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 02 06:45:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 07:05:37 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1779290	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.36	114	4374172	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.32	117	4276087	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.65	95	3424244	10.32	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

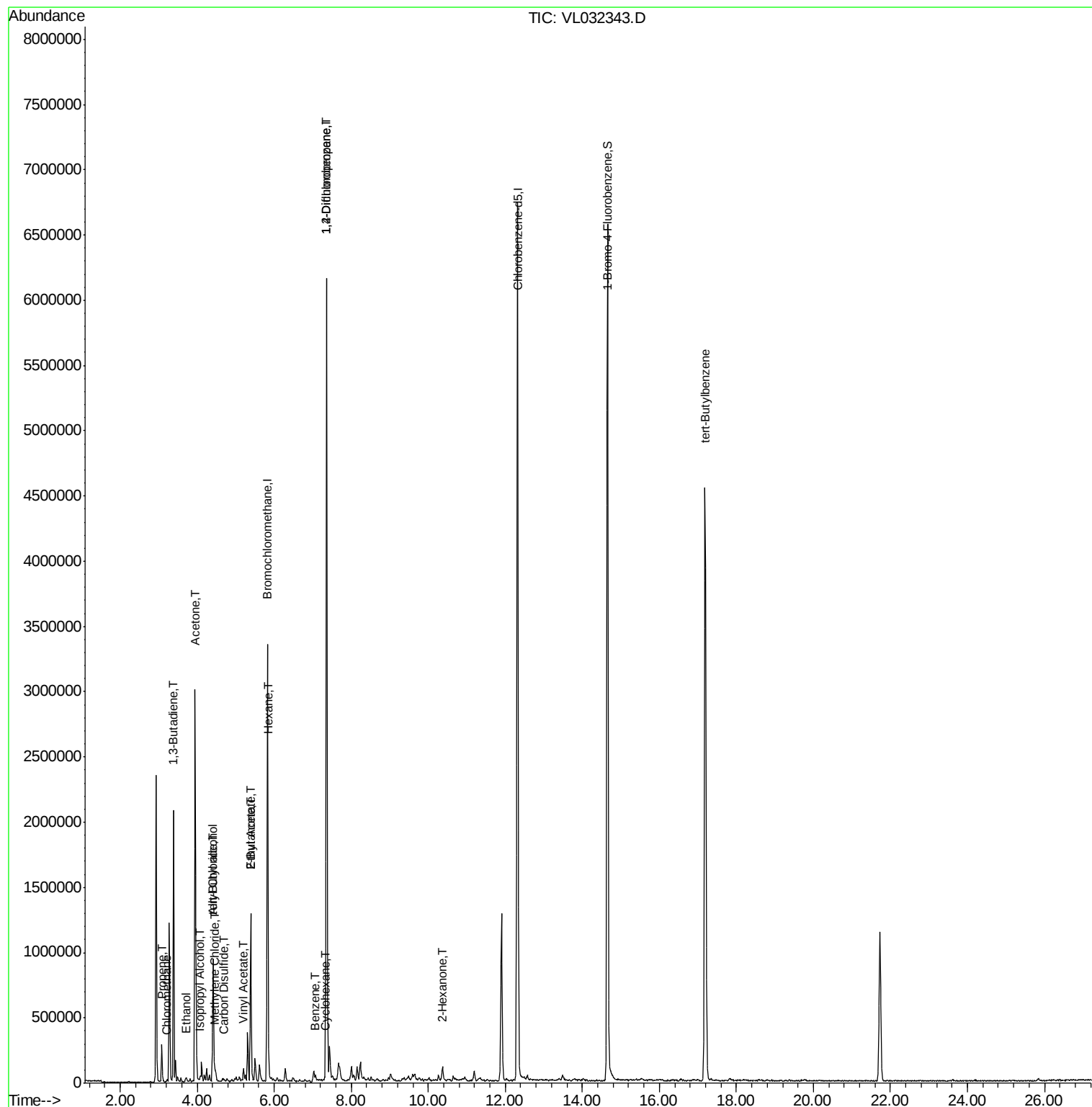
Target Compounds					Ovalue
4) Chloromethane	3.22	50	5677	0.053 ppbv	94
9) Propene	3.08	41	123775	1.547 ppbv	92
13) Ethanol	3.71	45	28250	1.229 ppbv	85
15) Acetone	3.95	43	3066237	18.284 ppbv	93
16) 1,3-Butadiene	3.39	39	553817	6.370 ppbv #	8
17) tert-Butyl alcohol	4.41	59	933804	17.520 ppbv	98
19) Isopropyl Alcohol	4.08	45	24010	0.215 ppbv #	95
20) Methylene Chloride	4.47	84	12704	0.188 ppbv	85
21) Allyl Chloride	4.41	41	302299	2.642 ppbv #	63
23) Vinyl Acetate	5.21	43	45971	0.153 ppbv #	60
25) Ethyl Acetate	5.39	43	1504761	3.999 ppbv #	76
26) Hexane	5.85	57	9113	0.054 ppbv #	1
27) Carbon Disulfide	4.67	76	14311	0.092 ppbv #	59
30) Cyclohexane	7.31	84	4063	0.031 ppbv #	1
34) 2-Butanone	5.39	43	1505607	5.318 ppbv	99
36) Benzene	7.07	78	26438	0.069 ppbv #	87
39) 1,2-Dichloropropane	7.36	63	1227296	6.327 ppbv #	27
51) 2-Hexanone	10.37	43	40045	0.105 ppbv #	27
65) tert-Butylbenzene	17.18	119	51717	0.096 ppbv #	22

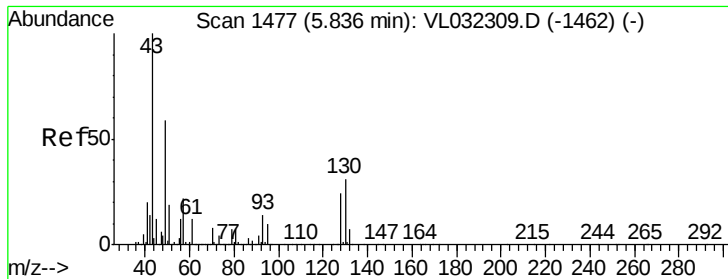
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1473

Delta R.T. -0.01 min

Lab File: VL032343.D

Acq: 2 Aug 2018 4:39

Instrument :
MSVOA_L
ClientSampleId :

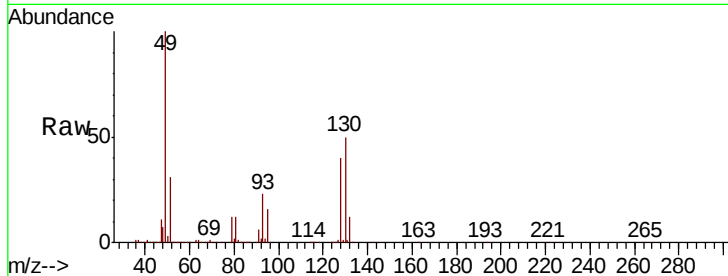
Tot Ion: 49 Resp: 1779290

Ion	Ratio	Lower	Upper
49	100		
128	40.5	20.2	60.6
130	50.9	25.8	77.3

49 100

128 40.5 20.2 60.6

130 50.9 25.8 77.3



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

5.82

1200000

1000000

800000

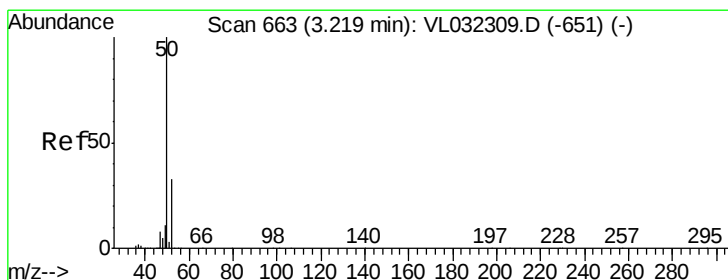
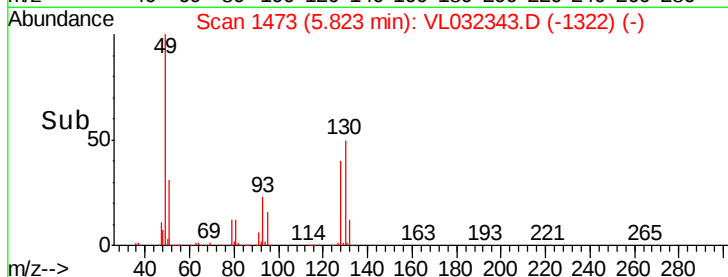
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 0.053 ppbv

RT: 3.22 min Scan# 662

Delta R.T. -0.00 min

Lab File: VL032343.D

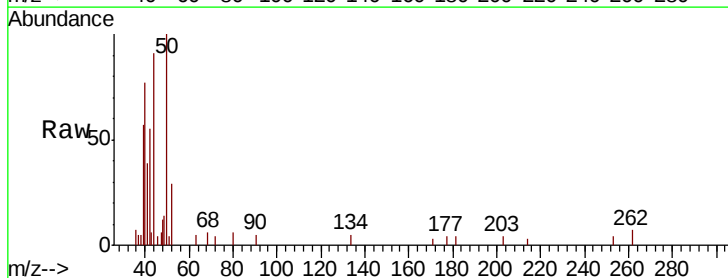
Acq: 2 Aug 2018 4:39

Tgt Ion: 50 Resp: 5677

Ion	Ratio	Lower	Upper
50	100		
52	29.3	26.2	39.4

50 100

52 29.3 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.22

5000

4000

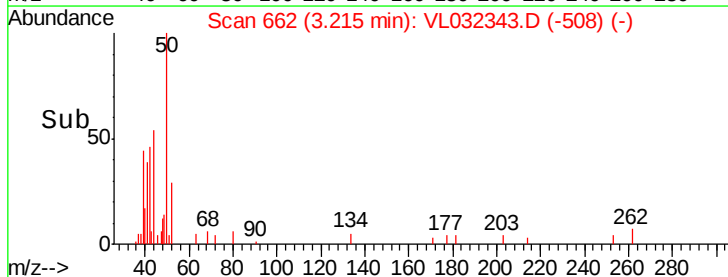
3000

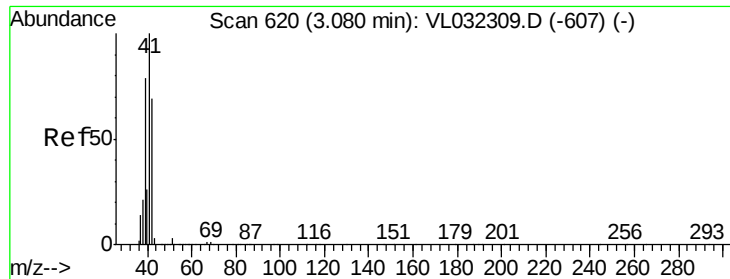
2000

1000

0

Time-->





#9

Propene

Concen: 1.547 ppbv

RT: 3.08 min Scan# 620

Delta R.T. -0.00 min

Lab File: VL032343.D

Acq: 2 Aug 2018 4:39

Instrument :

MSVOA_L

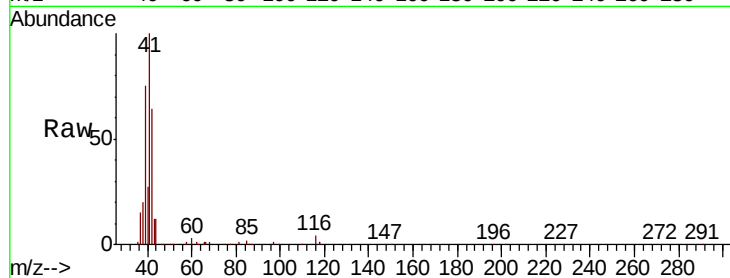
ClientSampleId :

Tot Ion: 41 Resp: 123775

Ion Ratio Lower Upper

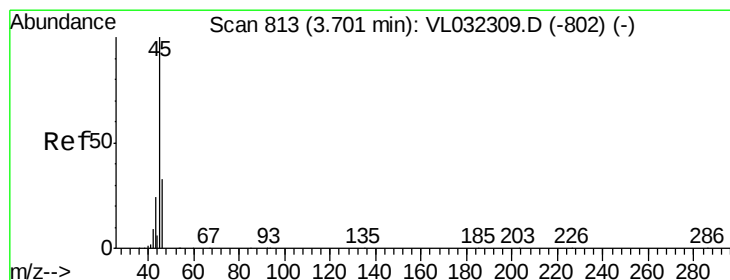
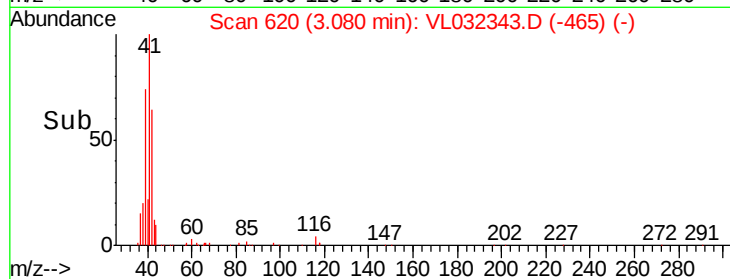
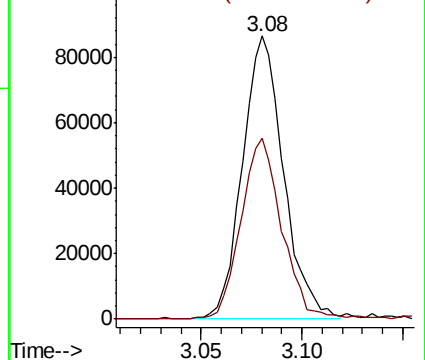
41 100

42 64.0 56.8 85.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 1.229 ppbv

RT: 3.71 min Scan# 815

Delta R.T. 0.01 min

Lab File: VL032343.D

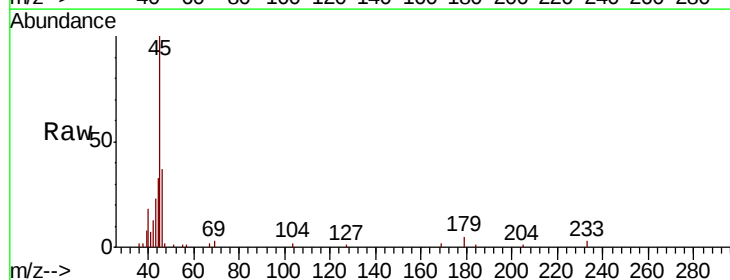
Acq: 2 Aug 2018 4:39

Tgt Ion: 45 Resp: 28250

Ion Ratio Lower Upper

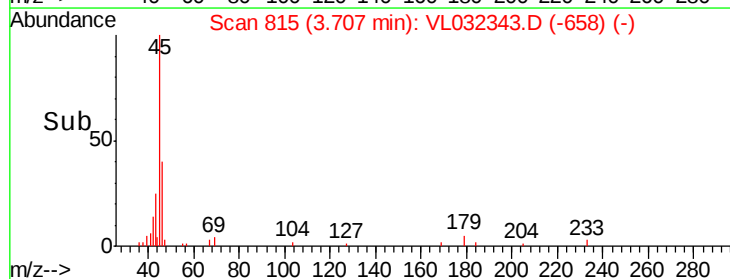
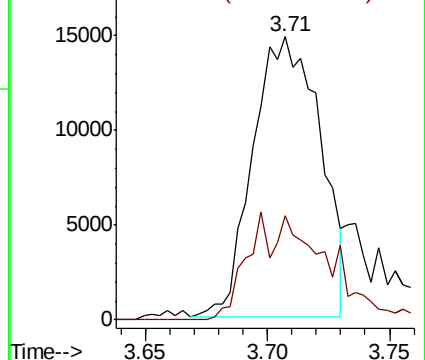
45 100

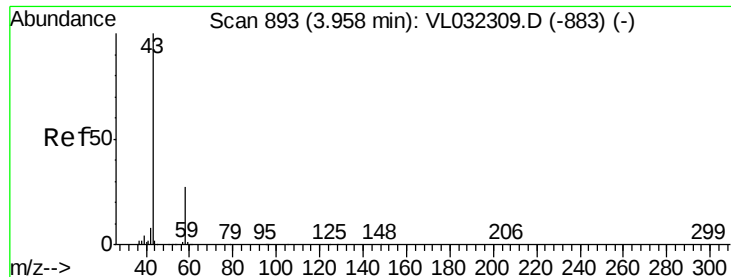
46 47.0 15.2 60.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 18.284 ppbv

RT: 3.95 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL032343.D

Acq: 2 Aug 2018 4:39

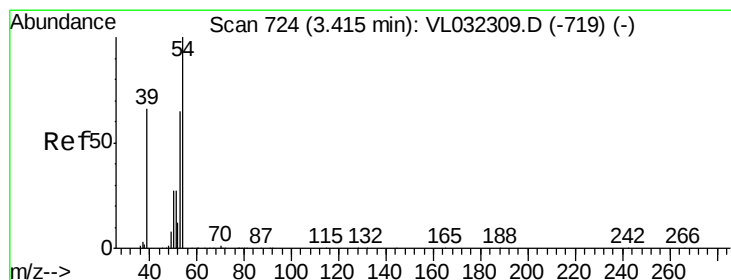
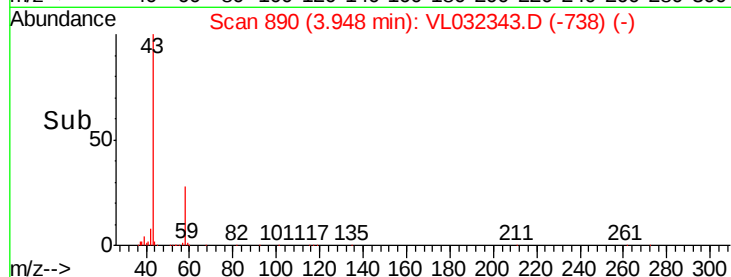
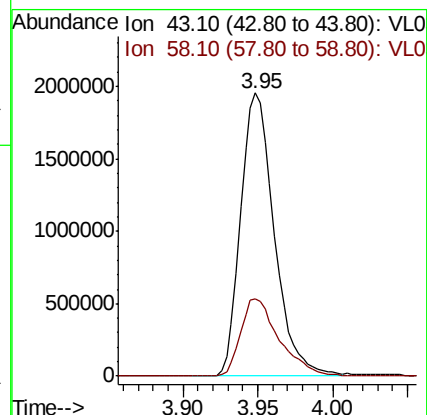
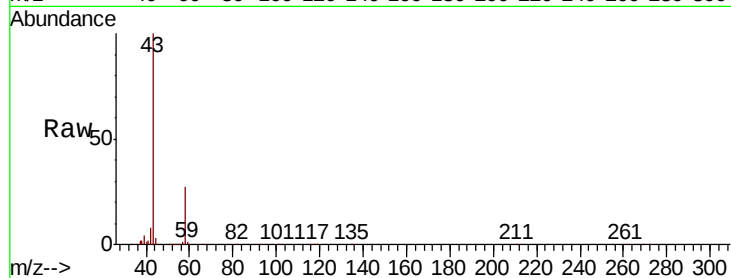
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 3066237

Ion Ratio Lower Upper

43 100

58 31.7 22.5 33.7



#16

1,3-Butadiene

Concen: 6.370 ppbv

RT: 3.39 min Scan# 715

Delta R.T. -0.03 min

Lab File: VL032343.D

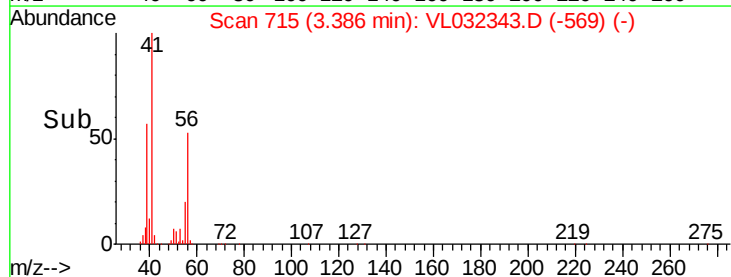
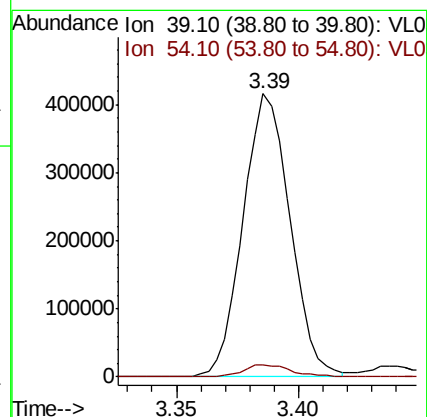
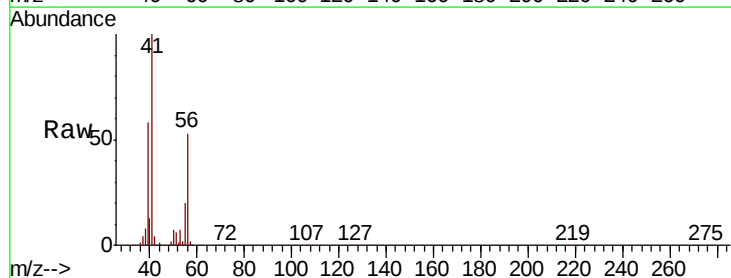
Acq: 2 Aug 2018 4:39

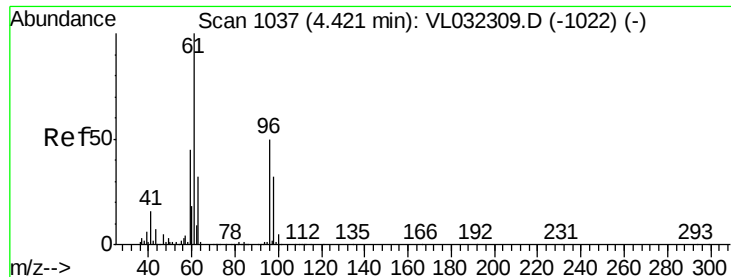
Tgt Ion: 39 Resp: 553817

Ion Ratio Lower Upper

39 100

54 4.6 74.3 111.5#





#17

tert-Butyl alcohol

Concen: 17.520 ppbv

RT: 4.41 min Scan# 1033

Delta R.T. -0.01 min

Lab File: VL032343.D

Acq: 2 Aug 2018 4:39

Instrument :

MSVOA_L

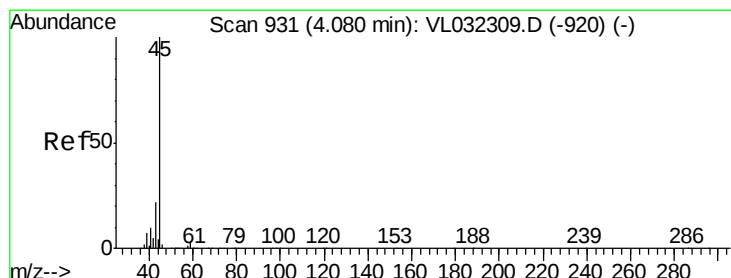
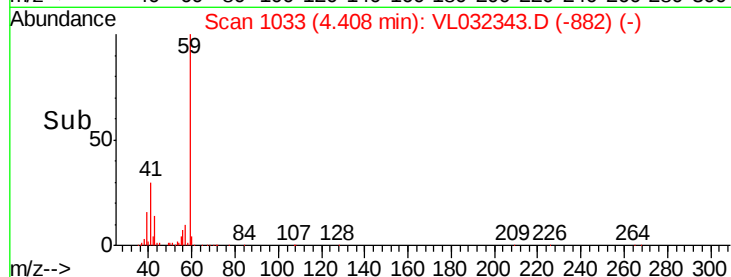
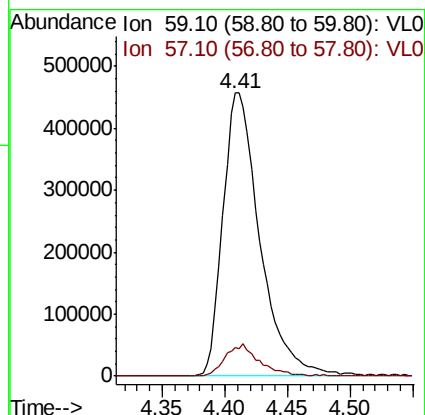
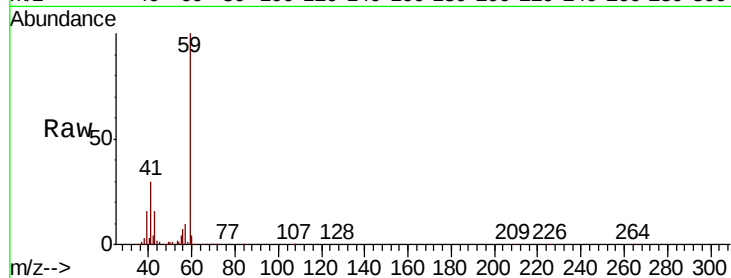
ClientSampleId :

Tot Ion: 59 Resp: 933804

Ion Ratio Lower Upper

59 100

57 10.6 8.0 12.0



#19

Isopropyl Alcohol

Concen: 0.215 ppbv

RT: 4.08 min Scan# 931

Delta R.T. -0.00 min

Lab File: VL032343.D

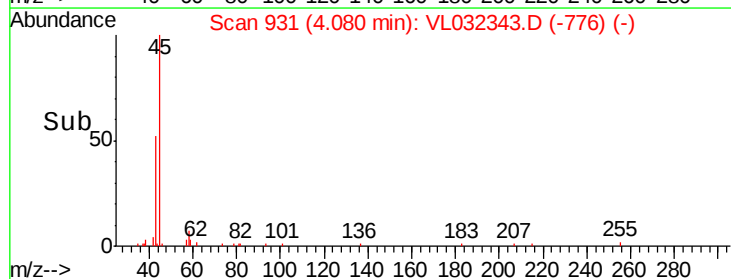
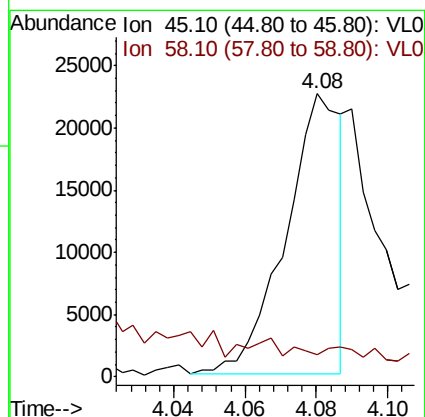
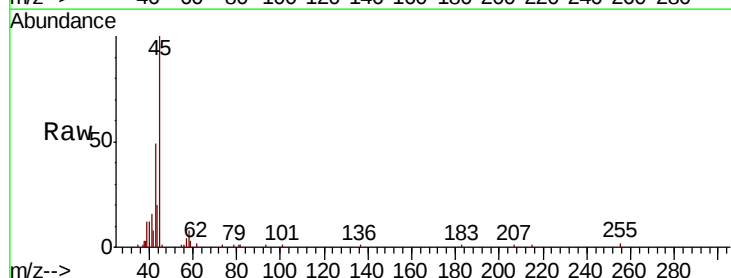
Acq: 2 Aug 2018 4:39

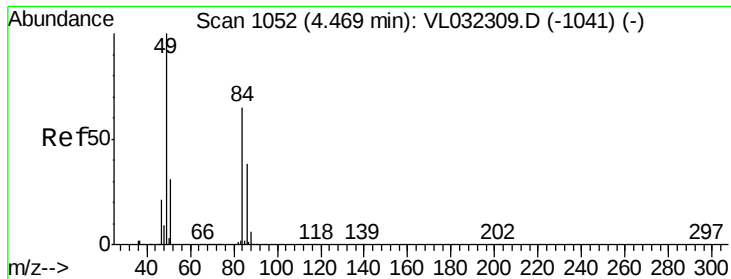
Tgt Ion: 45 Resp: 24010

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#

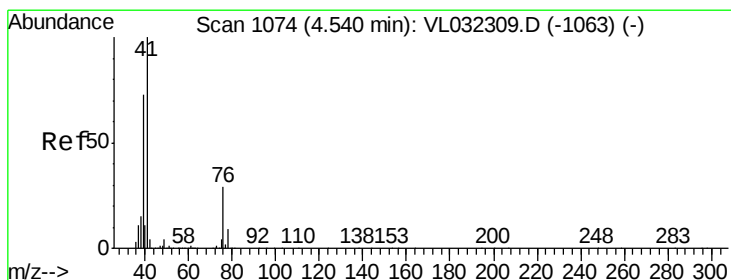
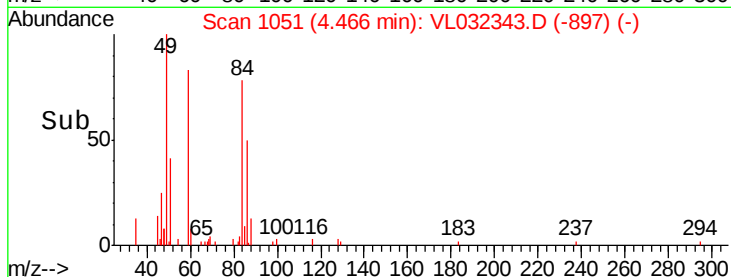
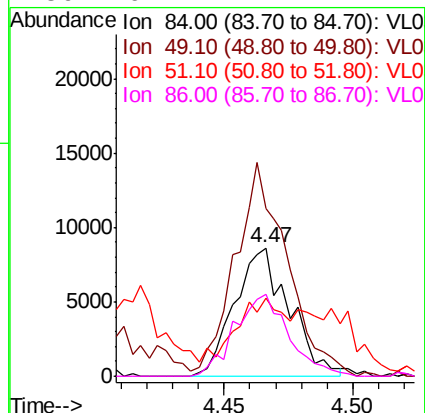
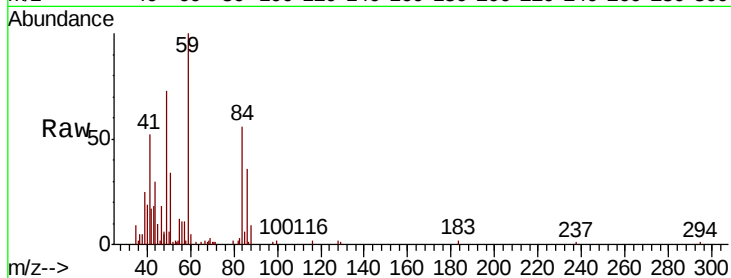




#20
Methvlene Chloride
Concen: 0.188 ppbv
RT: 4.47 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VL032343.D
Acq: 2 Aug 2018 4:39

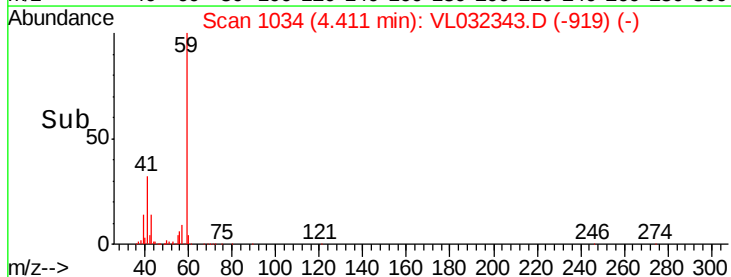
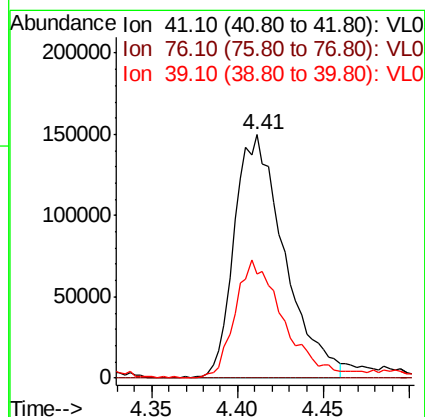
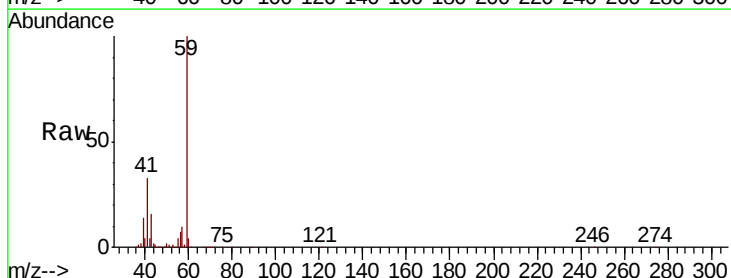
Instrument :
MSVOA_L
ClientSampleId :

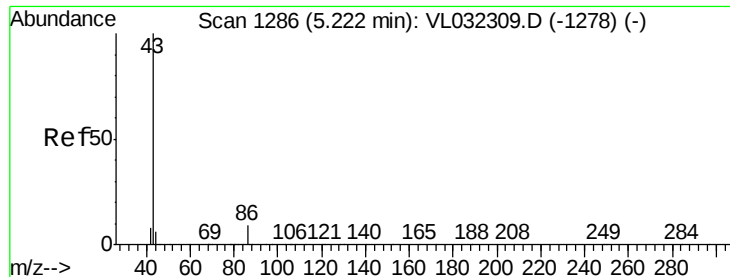
Tot Ion:	84	Resp:	12704
Ion	Ratio	Lower	Upper
84	100		
49	127.8	123.4	185.0
51	41.0	38.2	57.2
86	64.2	47.4	71.2



#21
Allyl Chloride
Concen: 2.642 ppbv
RT: 4.41 min Scan# 1034
Delta R.T. -0.13 min
Lab File: VL032343.D
Acq: 2 Aug 2018 4:39

Tgt Ion:	41	Resp:	302299
Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.1	34.7#
39	47.2	58.2	87.2#

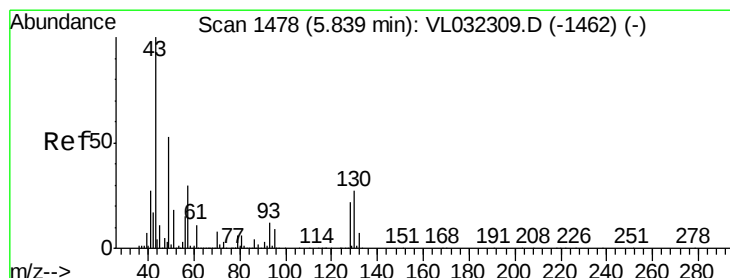
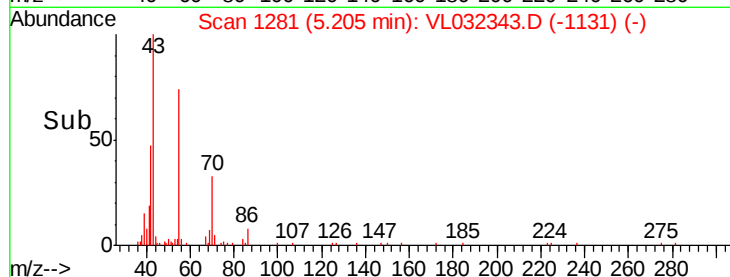
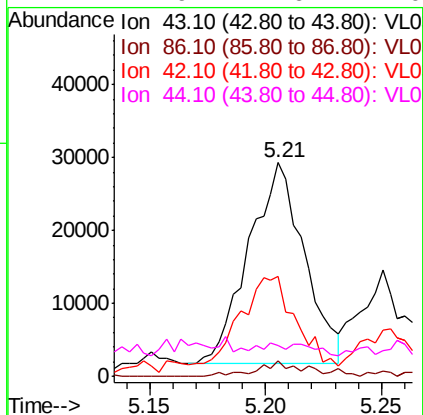
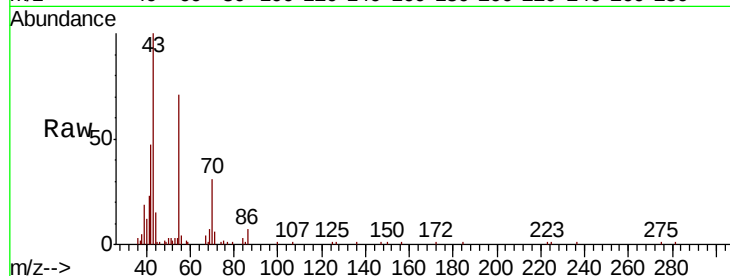




#23
 Vinyl Acetate
 Concen: 0.153 ppbv
 RT: 5.21 min Scan# 1281
 Delta R.T. -0.02 min
 Lab File: VL032343.D
 Acq: 2 Aug 2018 4:39

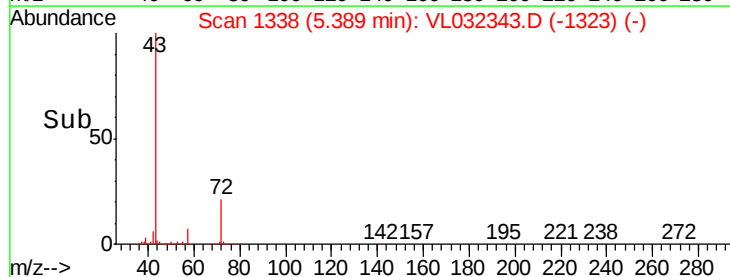
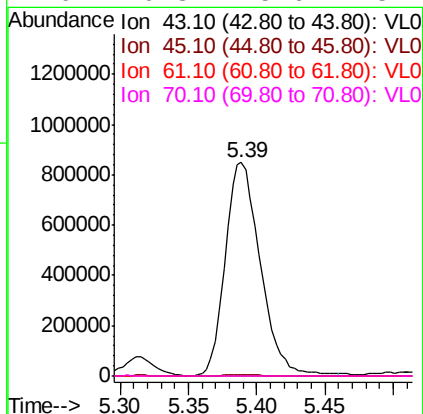
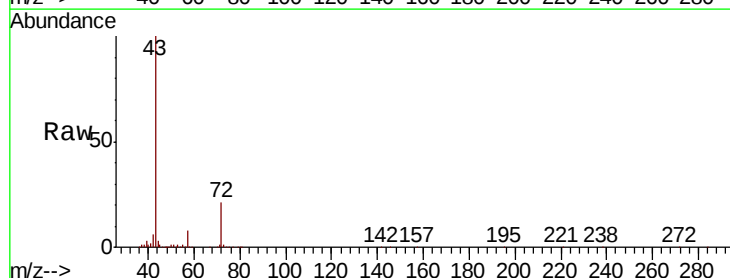
Instrument :
 MSVOA_L
 ClientSampleId :

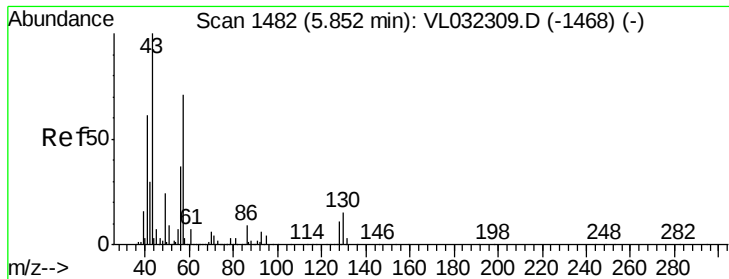
Tot Ion:	43	Resp:	45971
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.3	9.5
42	44.4	7.0	10.4#
44	4.9	4.6	7.0



#25
 Ethyl Acetate
 Concen: 3.999 ppbv
 RT: 5.39 min Scan# 1338
 Delta R.T. -0.45 min
 Lab File: VL032343.D
 Acq: 2 Aug 2018 4:39

Tgt Ion:	43	Resp:	1504761
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.1	12.1#
61	0.0	7.4	11.0#
70	0.3	5.6	8.4#

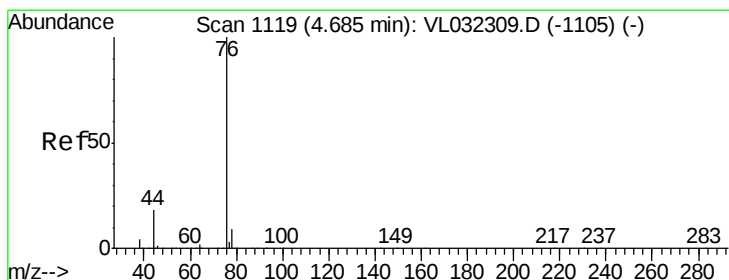
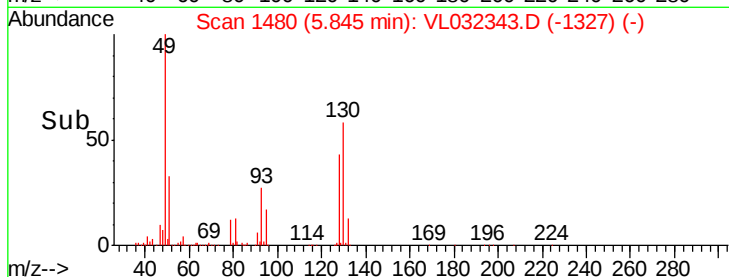
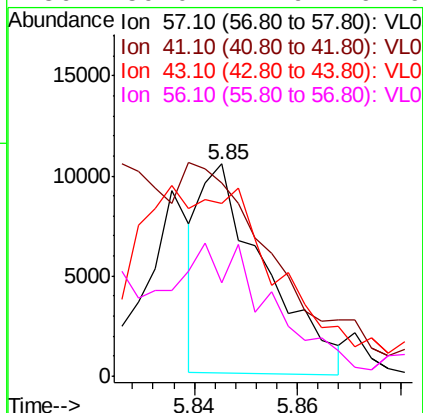
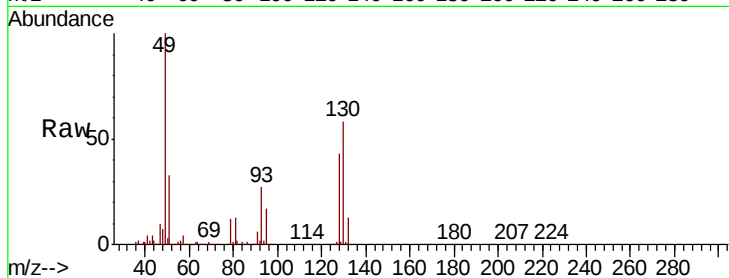




#26
Hexane
Concen: 0.054 ppbv
RT: 5.85 min Scan# 1480
Delta R.T. -0.01 min
Lab File: VL032343.D
Acq: 2 Aug 2018 4:39

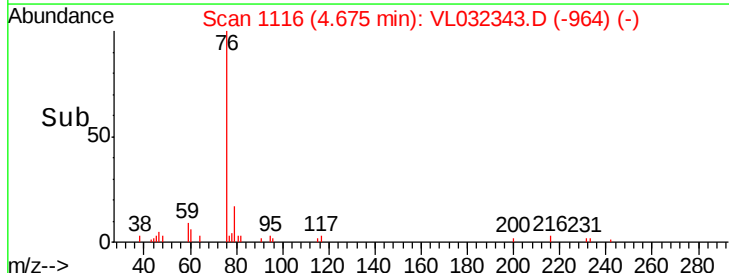
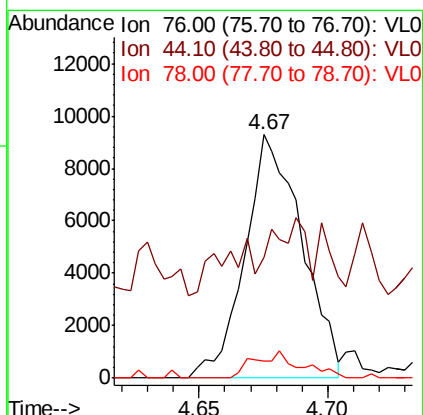
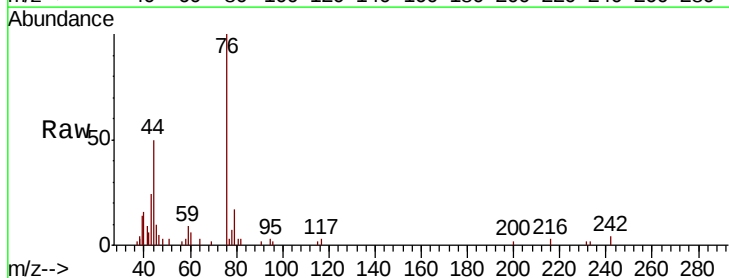
Instrument :
MSVOA_L
ClientSampleId :

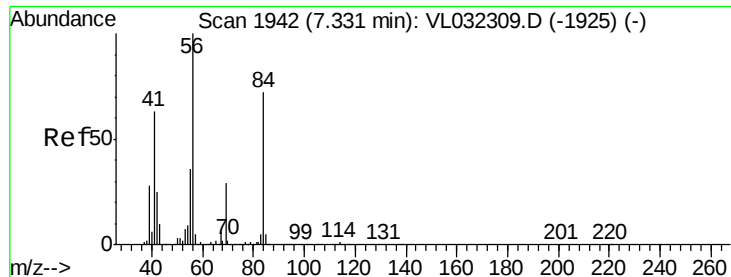
Tot Ion: 57 Resp: 9113
Ion Ratio Lower Upper
57 100
41 311.2 68.1 102.1#
43 0.0 177.4 266.2#
56 159.0 41.9 62.9#



#27
Carbon Disulfide
Concen: 0.092 ppbv
RT: 4.67 min Scan# 1116
Delta R.T. -0.01 min
Lab File: VL032343.D
Acq: 2 Aug 2018 4:39

Tgt Ion: 76 Resp: 14311
Ion Ratio Lower Upper
76 100
44 44.8 14.0 21.0#
78 10.1 7.5 11.3

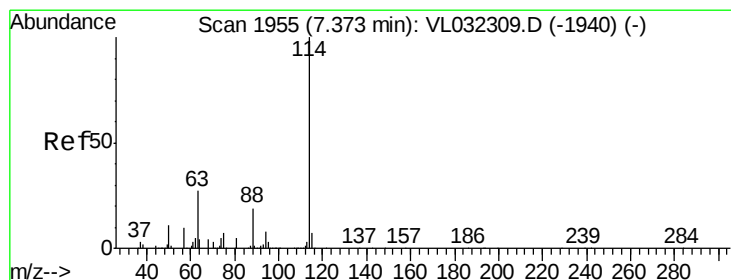
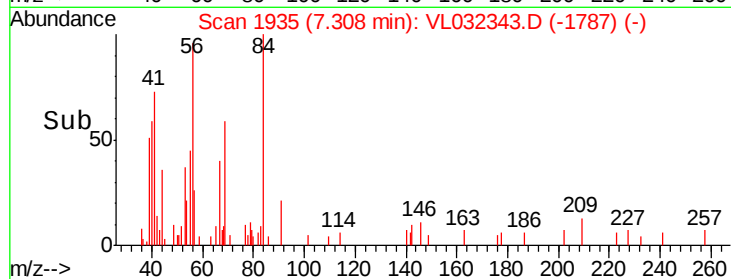
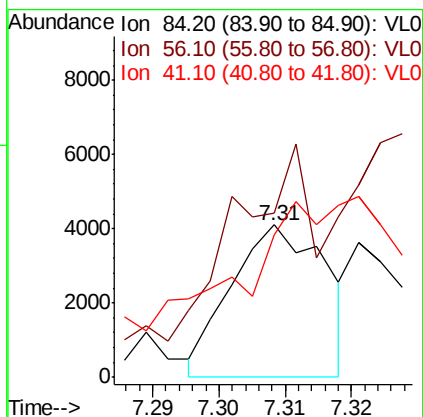
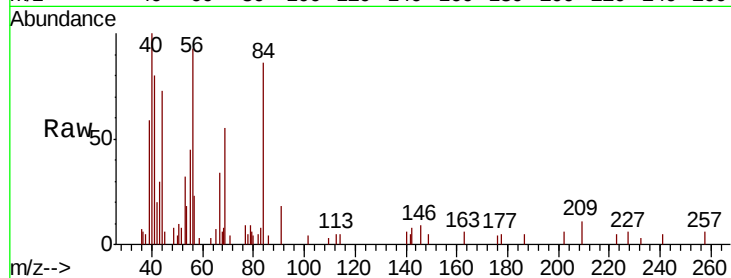




#30
Cvclohexane
Concen: 0.031 ppbv
RT: 7.31 min Scan# 1935
Delta R.T. -0.02 min
Lab File: VL032343.D
Acq: 2 Aug 2018 4:39

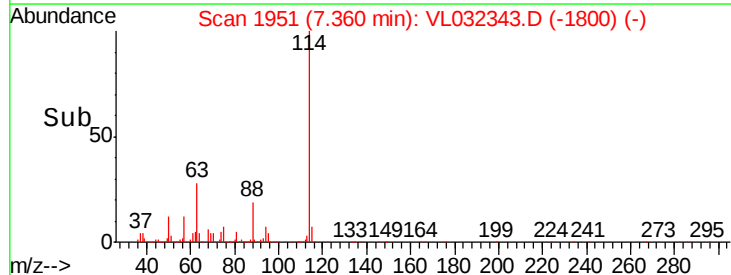
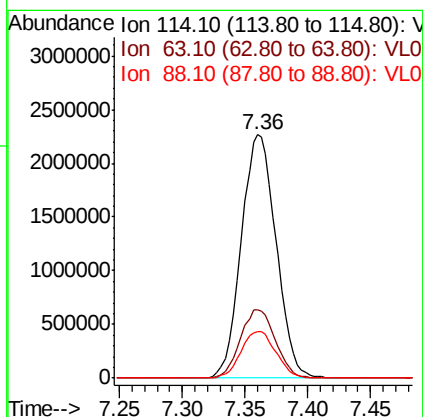
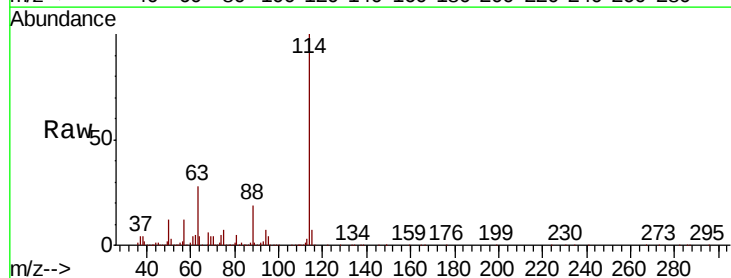
Instrument :
MSVOA_L
ClientSampled :

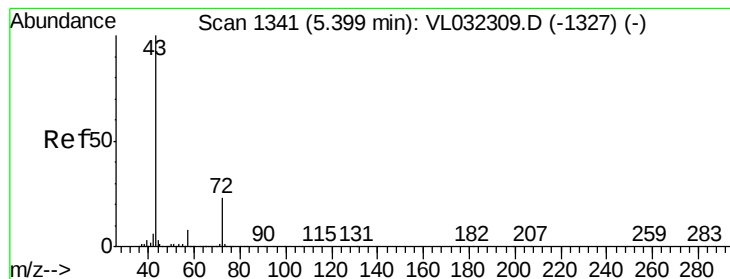
Tot Ion: 84 Resp: 4063
Ion Ratio Lower Upper
84 100
56 0.0 116.8 175.2#
41 0.0 70.0 105.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.36 min Scan# 1951
Delta R.T. -0.01 min
Lab File: VL032343.D
Acq: 2 Aug 2018 4:39

Tgt Ion:114 Resp: 4374172
Ion Ratio Lower Upper
114 100
63 28.4 22.4 33.6
88 19.4 15.3 22.9





#34

2-Butanone

Concen: 5.318 ppbv

RT: 5.39 min Scan# 1338

Delta R.T. -0.01 min

Lab File: VL032343.D

Acq: 2 Aug 2018 4:39

Instrument :

MSVOA_L

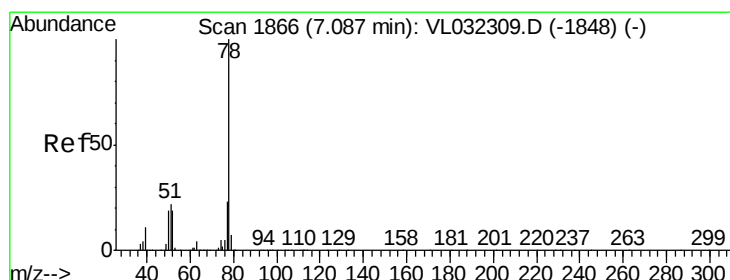
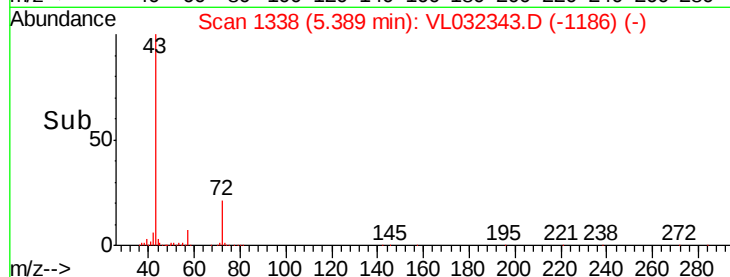
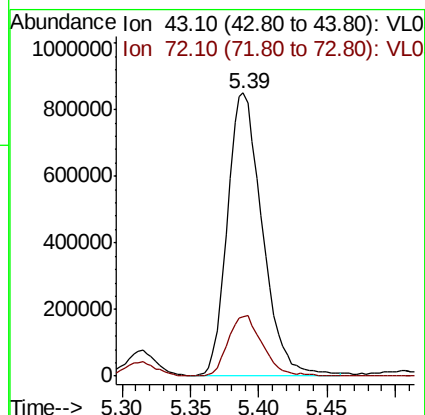
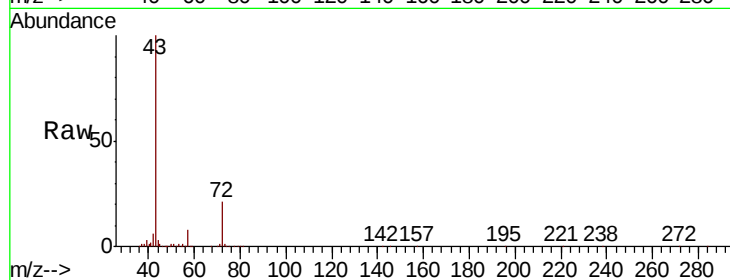
ClientSampleId :

Tot Ion: 43 Resp: 1505607

Ion Ratio Lower Upper

43 100

72 21.1 17.4 26.2



#36

Benzene

Concen: 0.069 ppbv

RT: 7.07 min Scan# 1861

Delta R.T. -0.02 min

Lab File: VL032343.D

Acq: 2 Aug 2018 4:39

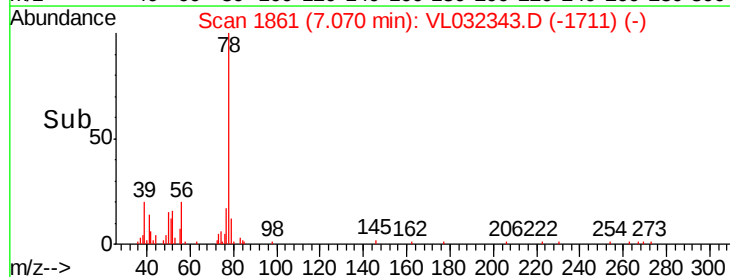
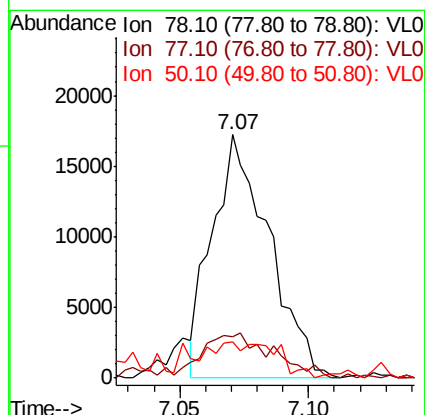
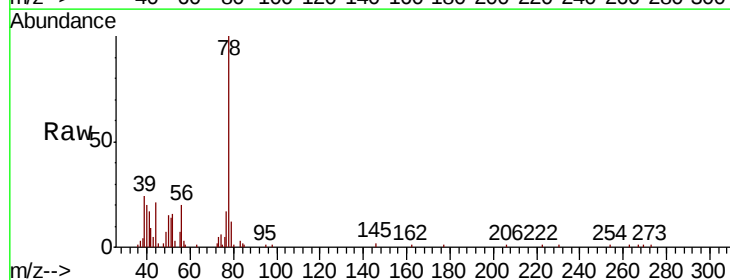
Tgt Ion: 78 Resp: 26438

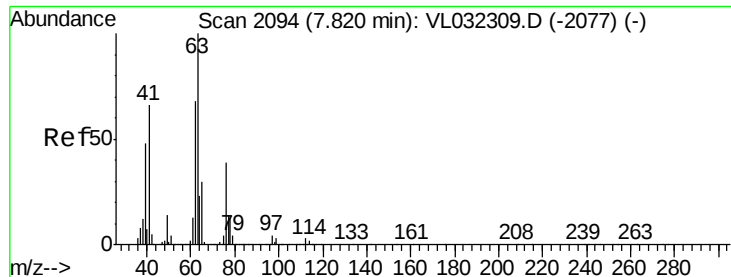
Ion Ratio Lower Upper

78 100

77 17.3 18.4 27.6#

50 13.0 15.3 22.9#



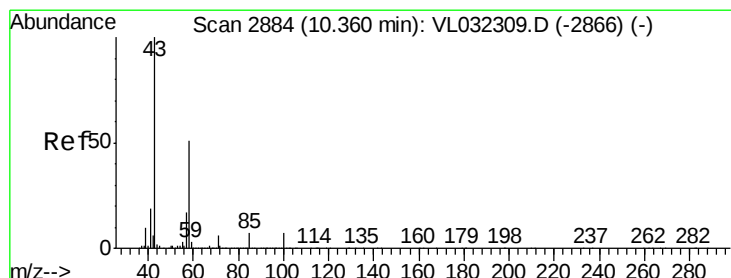
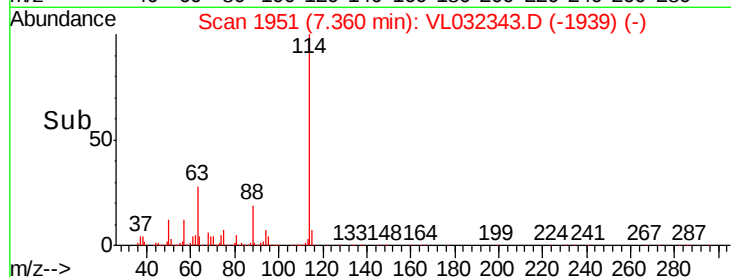
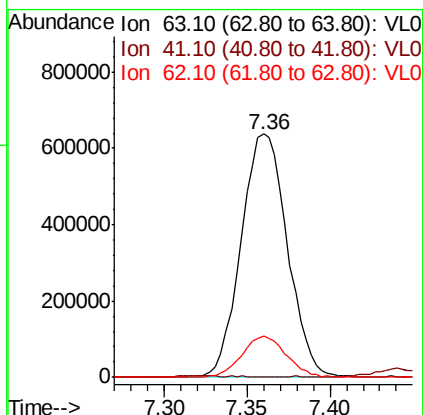
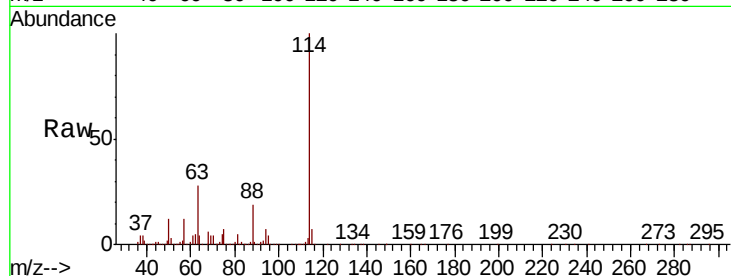


#39
 1,2-Dichloropropane
 Concen: 6.327 ppbv
 RT: 7.36 min Scan# 1951
 Delta R.T. -0.46 min
 Lab File: VL032343.D
 Acq: 2 Aug 2018 4:39

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 63 Resp: 1227296

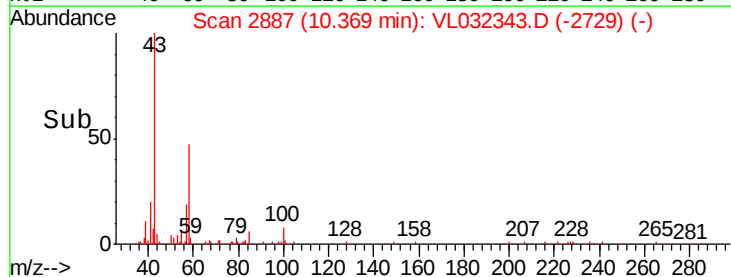
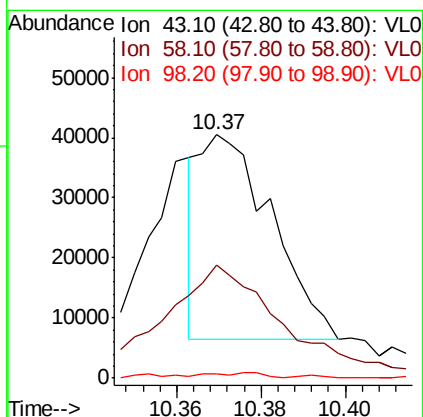
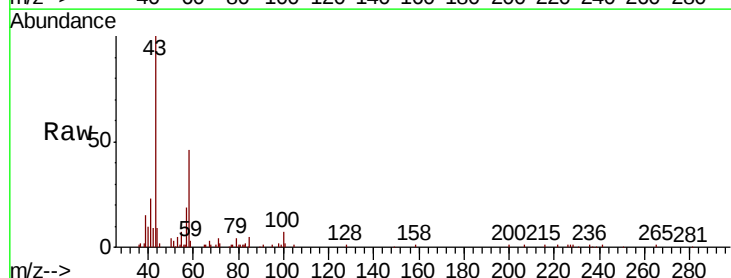
Ion	Ratio	Lower	Upper
63	100		
41	0.0	52.5	78.7#
62	16.9	54.6	81.8#

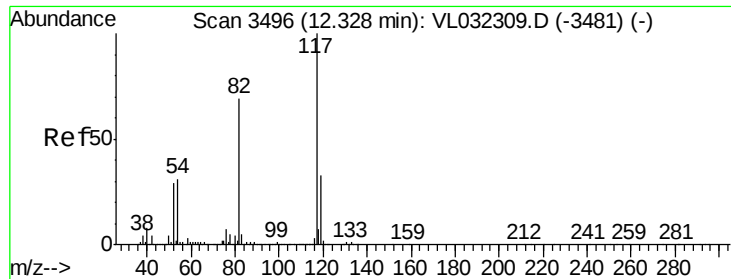


#51
 2-Hexanone
 Concen: 0.105 ppbv
 RT: 10.37 min Scan# 2887
 Delta R.T. 0.01 min
 Lab File: VL032343.D
 Acq: 2 Aug 2018 4:39

Tgt Ion: 43 Resp: 40045

Ion	Ratio	Lower	Upper
43	100		
58	99.3	39.1	58.7#
98	3.7	0.3	0.5#

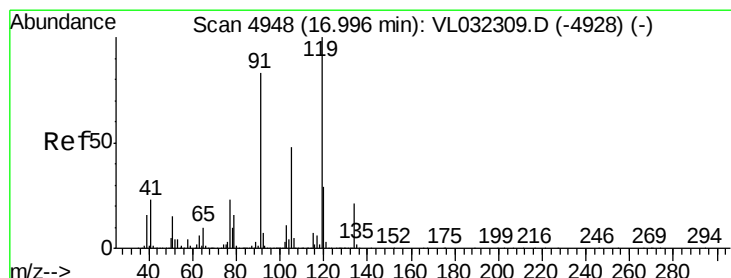
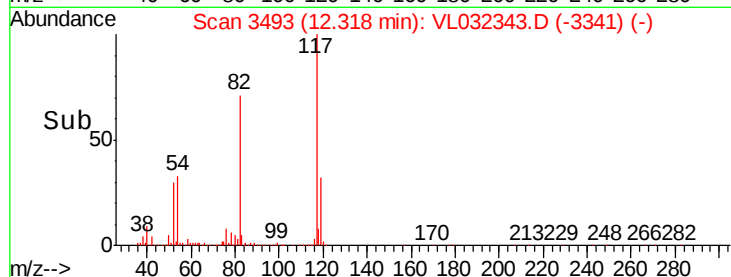
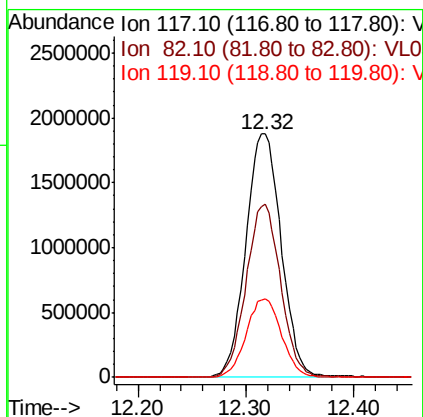
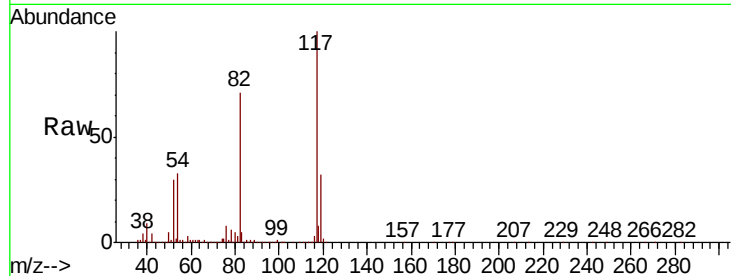




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.32 min Scan# 3493
Delta R.T. -0.01 min
Lab File: VL032343.D
Acq: 2 Aug 2018 4:39

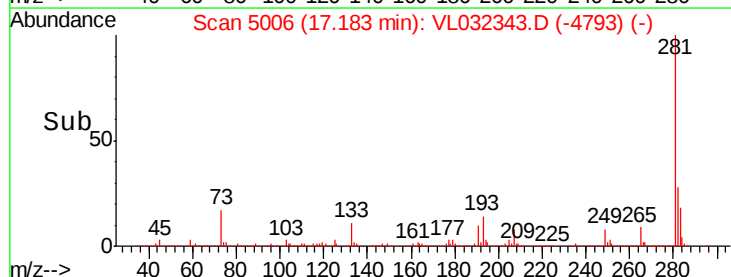
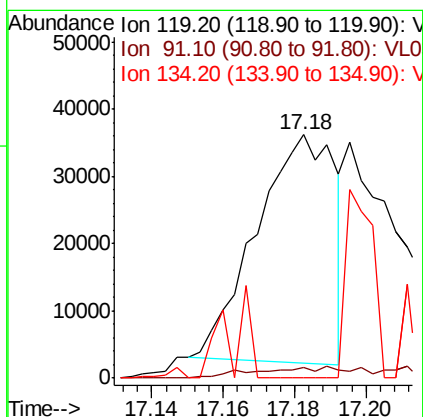
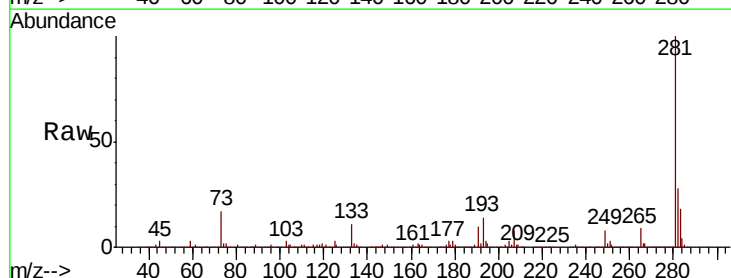
Instrument :
MSVOA_L
ClientSampled :

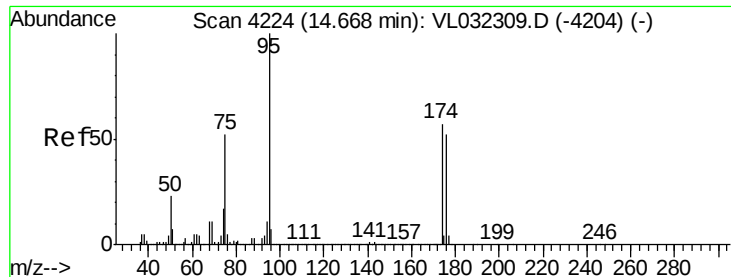
Tot Ion:117 Resp: 4276087
Ion Ratio Lower Upper
117 100
82 69.4 52.6 78.8
119 32.5 25.7 38.5



#65
tert-Butylbenzene
Concen: 0.096 ppbv
RT: 17.18 min Scan# 5006
Delta R.T. 0.19 min
Lab File: VL032343.D
Acq: 2 Aug 2018 4:39

Tgt Ion:119 Resp: 51717
Ion Ratio Lower Upper
119 100
91 0.5 67.5 101.3#
134 12.2 15.8 23.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.317 ppbv

RT: 14.65 min Scan# 4219

Delta R.T. -0.02 min

Lab File: VL032343.D

Acq: 2 Aug 2018 4:39

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 3424244

Ion Ratio Lower Upper

95 100

174 55.8 45.5 68.3

175 4.1 3.3 4.9

