

Data File : VL032610.D
Acq On : 11 Oct 2018 18:45
Operator : SY/AP
Sample : J5370-05DUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-SVI-100518DUP

Quant Time: Oct 12 01:55:46 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 01 06:49:26 2018
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1343896	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2719616	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2964097	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2089286	9.35	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.50%

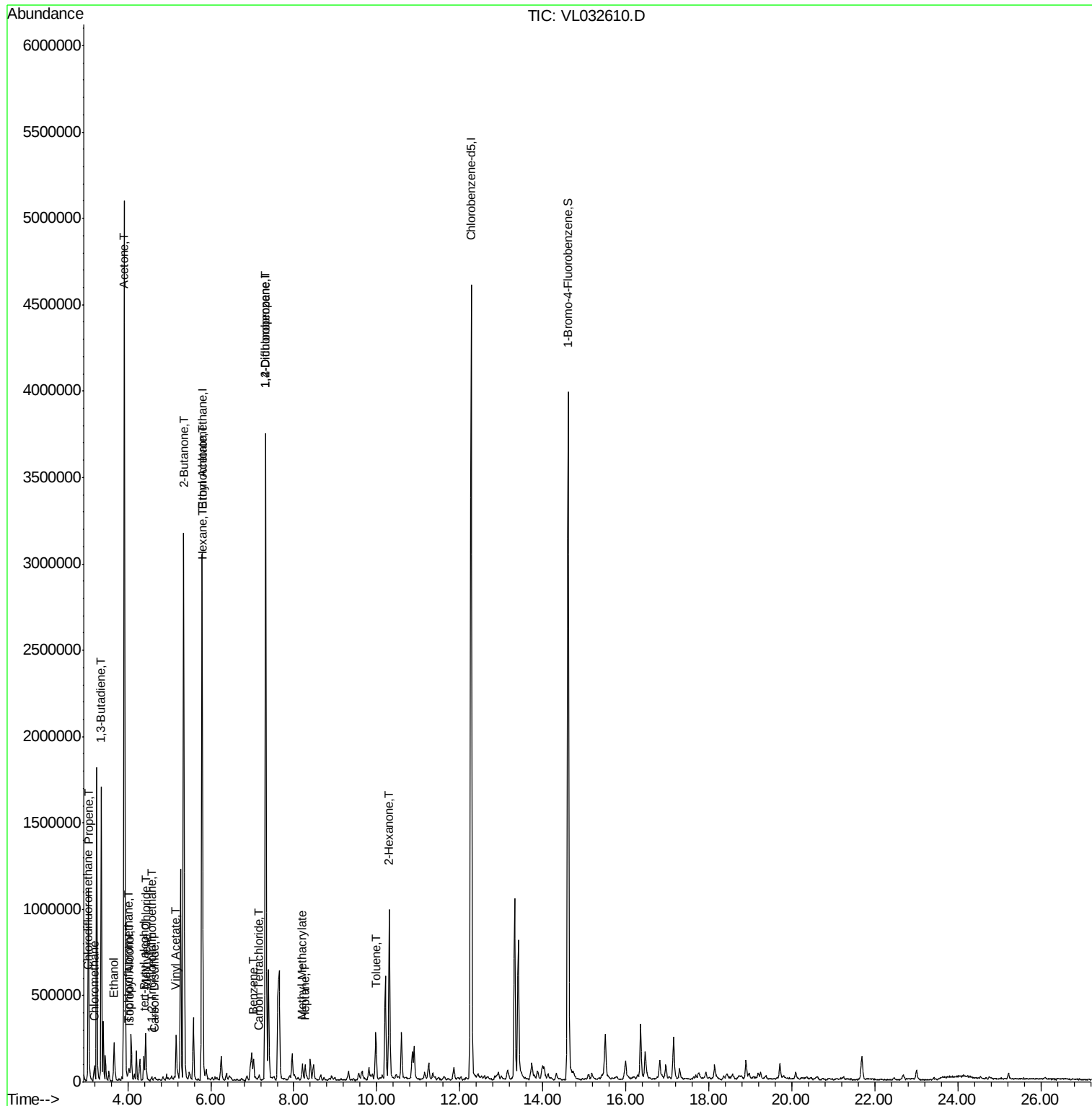
Target Compounds						Qvalue
3) Chlorodifluoromethane	3.03	51	28928	0.259	ppbv	97
4) Chloromethane	3.18	50	30981	0.475	ppbv	92
9) Propene	3.05	41	453650	9.356	ppbv	98
10) Heptane	8.27	43	18636	0.105	ppbv #	33
11) Trichlorofluoromethane	4.02	101	33559	0.227	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.58	101	3859	0.032	ppbv #	17
13) Ethanol	3.67	45	243940	16.737	ppbv	98
15) Acetone	3.91	43	5218302	44.236	ppbv	91
16) 1,3-Butadiene	3.36	39	396383	8.286	ppbv #	6
17) tert-Butyl alcohol	4.39	59	84731	5.716	ppbv #	100
19) Isopropyl Alcohol	4.05	45	23493	0.286	ppbv #	93
20) Methylene Chloride	4.43	84	89610	1.569	ppbv	93
23) Vinyl Acetate	5.17	43	205198	0.984	ppbv #	94
25) Ethyl Acetate	5.80	43	169819	0.593	ppbv #	89
26) Hexane	5.80	57	177233	1.371	ppbv #	46
27) Carbon Disulfide	4.64	76	12552	0.090	ppbv #	35
34) 2-Butanone	5.35	43	3678693	22.715	ppbv	98
35) Carbon Tetrachloride	7.16	117	8738	0.046	ppbv	92
36) Benzene	7.03	78	92824	0.422	ppbv #	95
39) 1,2-Dichloropropane	7.32	63	710667	7.175	ppbv #	24
43) Methyl Methacrylate	8.21	69	15954	0.174	ppbv #	54
51) 2-Hexanone	10.30	43	823209	3.910	ppbv #	99
53) Toluene	9.98	91	199790	0.746	ppbv	99

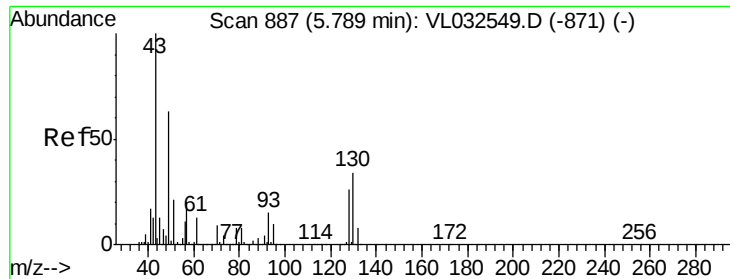
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

Lab File: VL032610.D

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MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518DUP

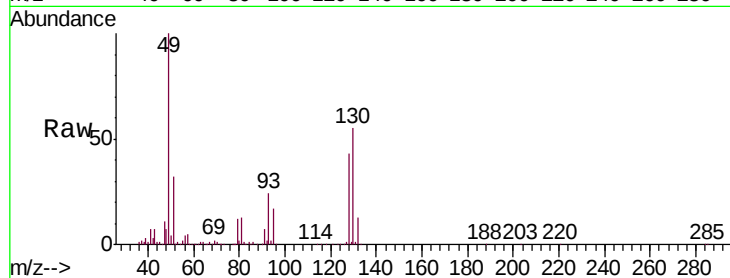
Tgt Ion: 49 Resp: 1343896

Ion Ratio Lower Upper

49 100

128 42.8 20.7 62.1

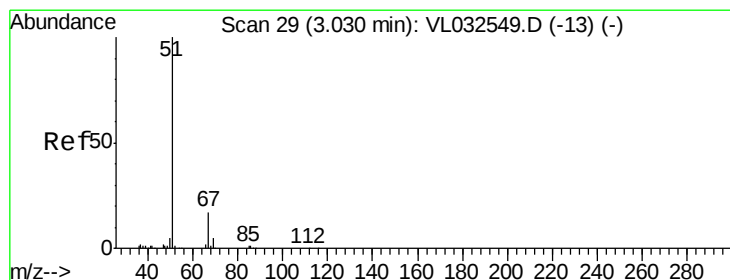
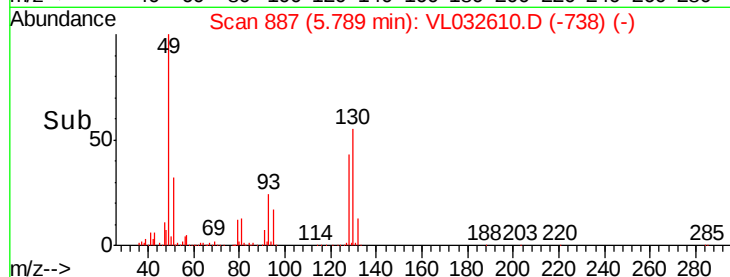
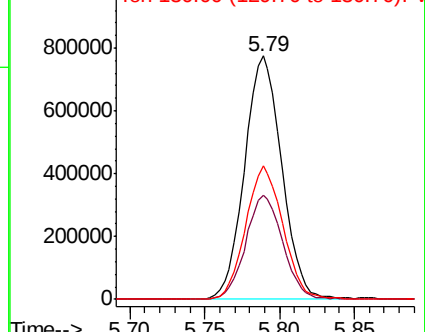
130 55.1 26.6 79.7



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: 0.259 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032610.D

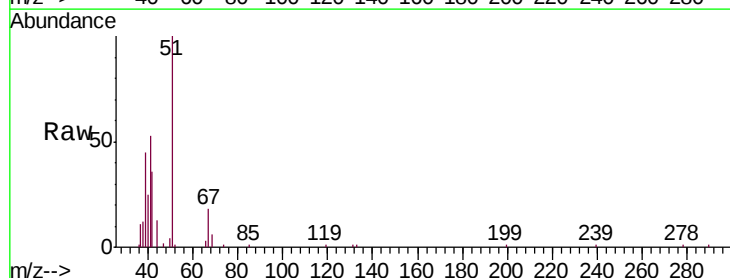
Acq: 11 Oct 2018 18:45

Tgt Ion: 51 Resp: 28928

Ion Ratio Lower Upper

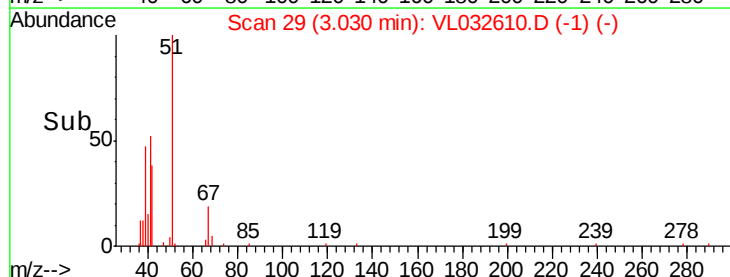
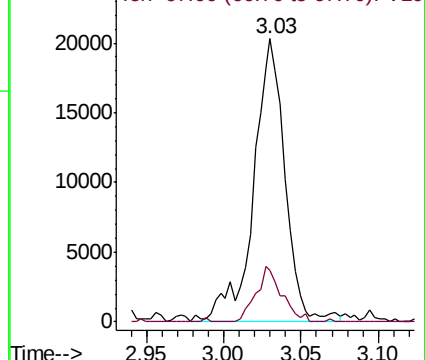
51 100

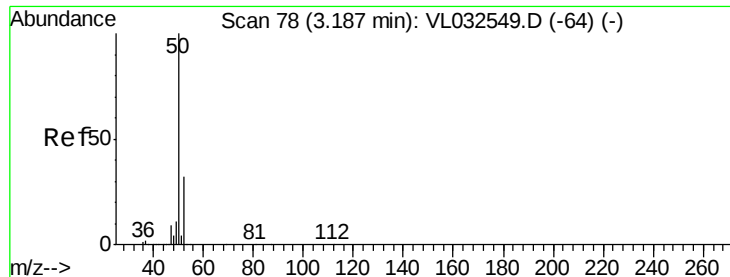
67 16.2 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.475 ppbv

RT: 3.18 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

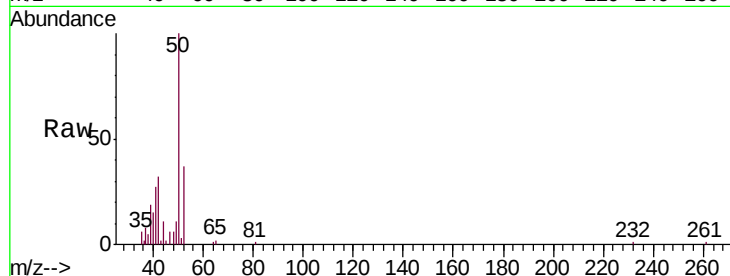
AMBIENT-SVI-100518DUP

Tgt Ion: 50 Resp: 30981

Ion Ratio Lower Upper

50 100

52 36.5 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

25000

20000

15000

10000

5000

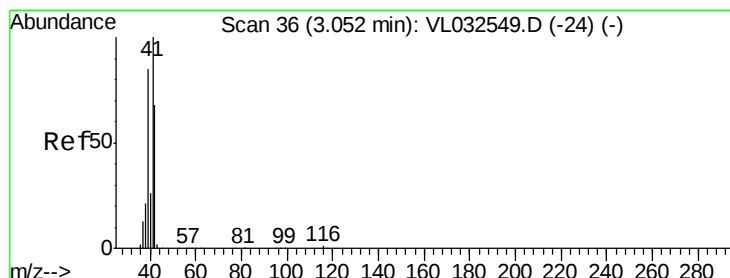
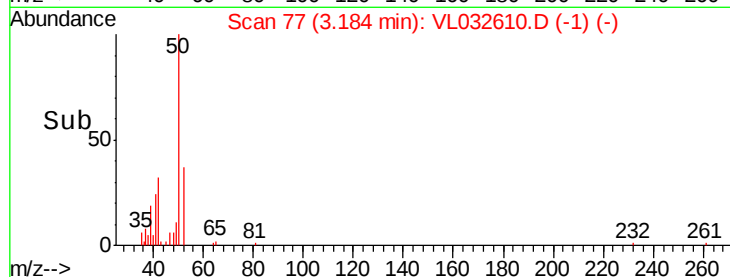
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Time-->

3.15

3.20

3.18



#9

Propene

Concen: 9.356 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.02 min

Lab File: VL032610.D

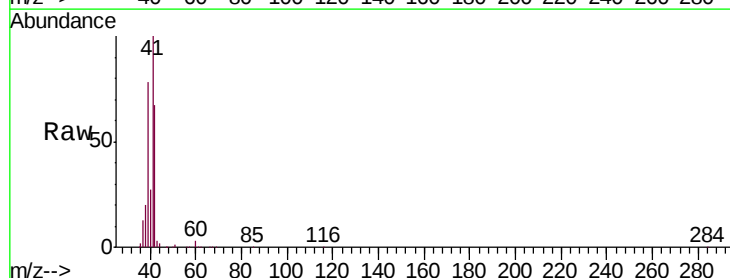
Acq: 11 Oct 2018 18:45

Tgt Ion: 41 Resp: 453650

Ion Ratio Lower Upper

41 100

42 68.8 56.6 84.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

400000

300000

200000

100000

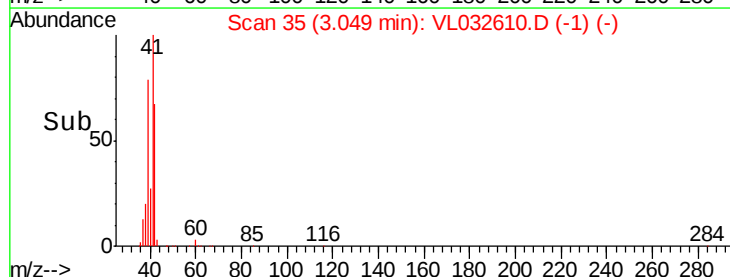
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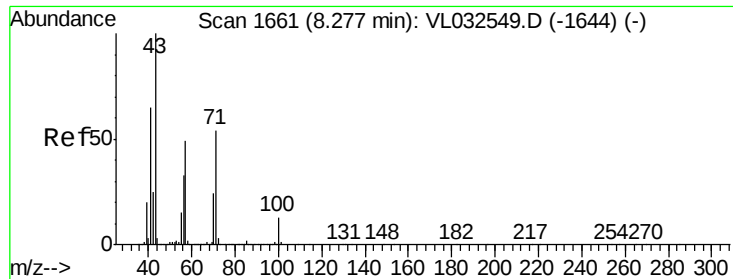
Time-->

3.00

3.05

3.10





#10

Heptane

Concen: 0.105 ppbv

RT: 8.27 min Scan# 1659

Delta R.T. -0.03 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

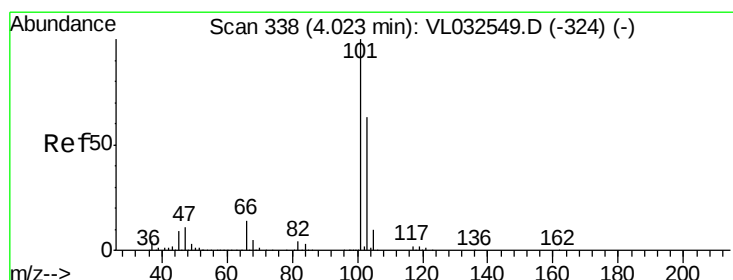
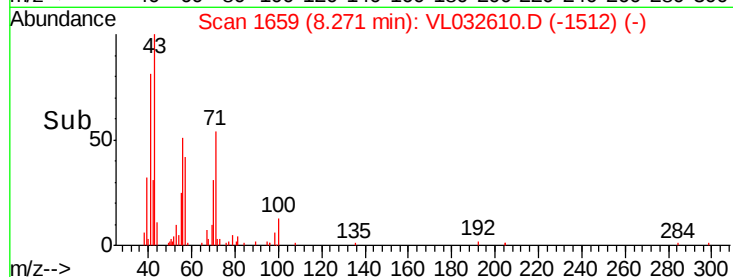
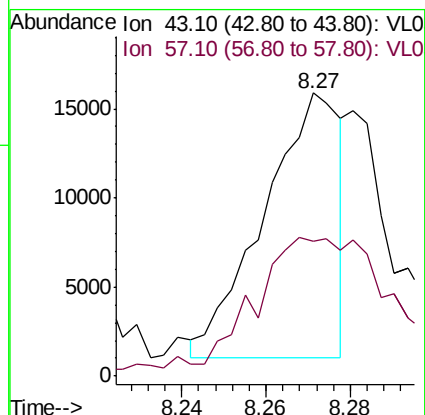
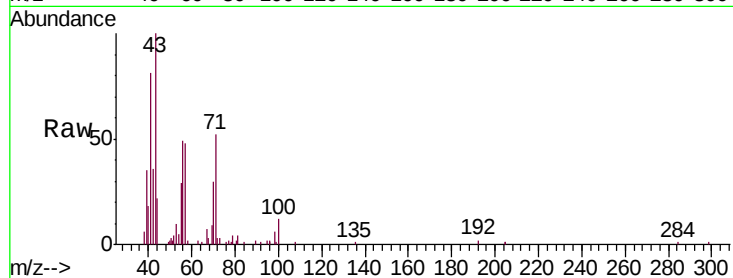
AMBIENT-SVI-100518DUP

Tgt Ion: 43 Resp: 18636

Ion Ratio Lower Upper

43 100

57 95.6 39.6 59.4#



#11

Trichlorofluoromethane

Concen: 0.227 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

Lab File: VL032610.D

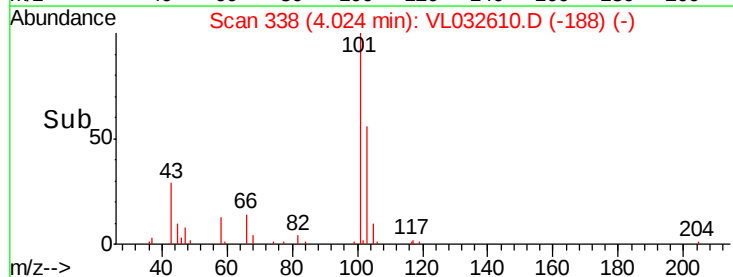
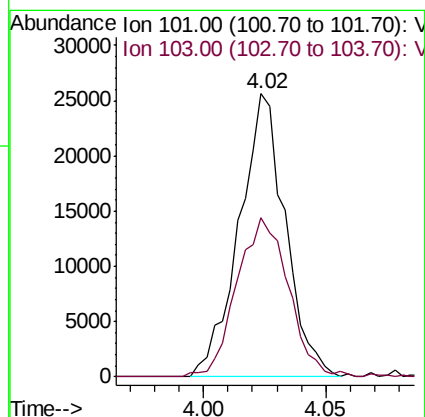
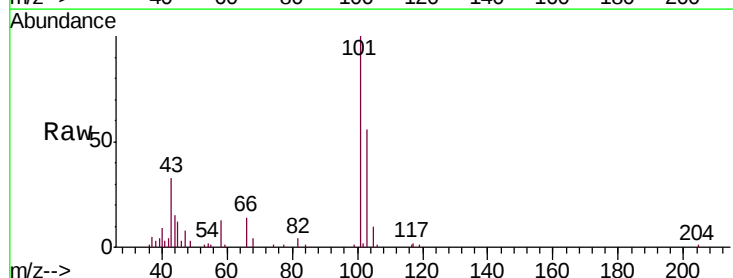
Acq: 11 Oct 2018 18:45

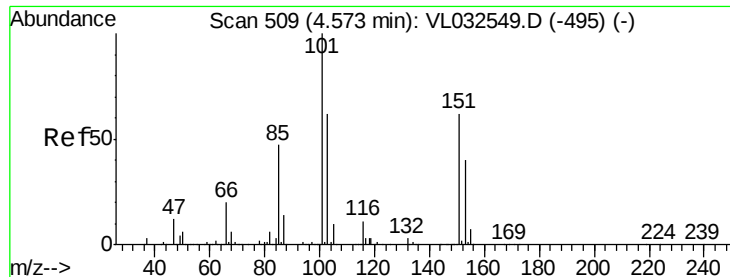
Tgt Ion: 101 Resp: 33559

Ion Ratio Lower Upper

101 100

103 55.0 52.8 79.2

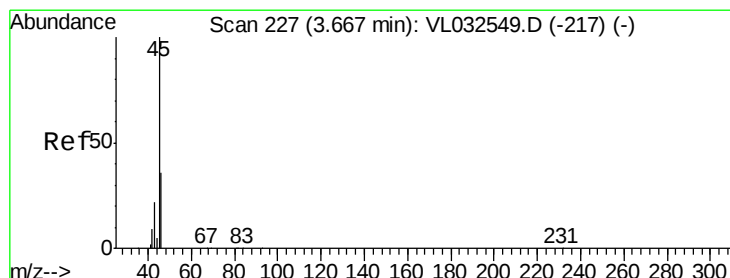
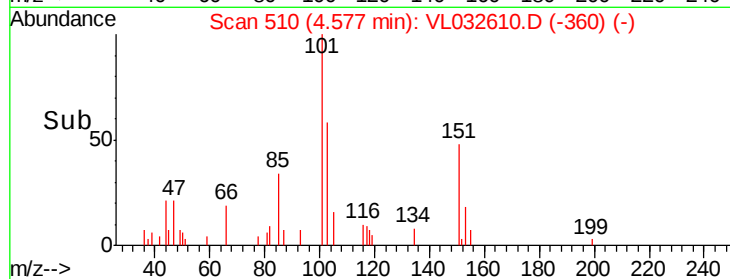
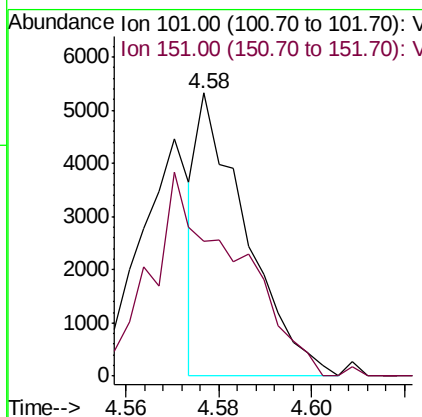
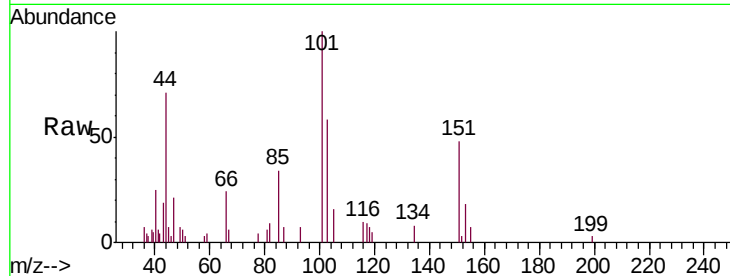




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.032 ppbv
 RT: 4.58 min Scan# 510
 Delta R.T. -0.02 min
 Lab File: VL032610.D
 Acq: 11 Oct 2018 18:45

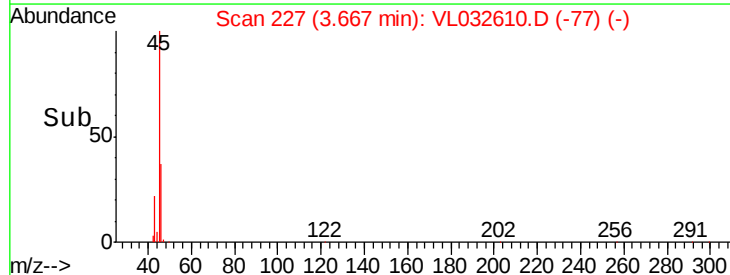
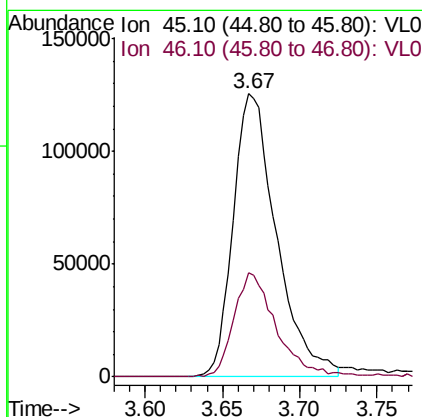
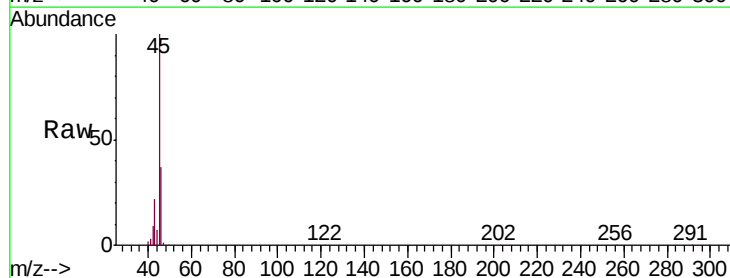
Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENT-SVI-100518DUP

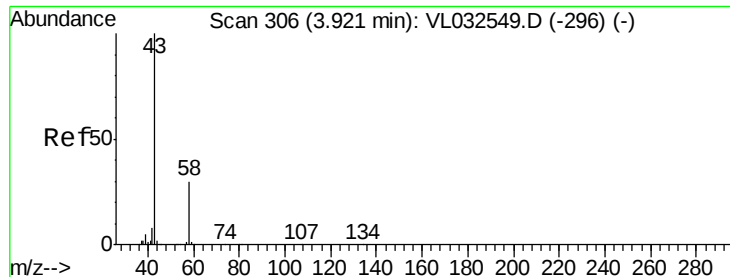
Tgt Ion: 101 Resp: 3859
 Ion Ratio Lower Upper
 101 100
 151 0.0 52.6 78.8#



#13
 Ethanol
 Concen: 16.737 ppbv
 RT: 3.67 min Scan# 227
 Delta R.T. -0.02 min
 Lab File: VL032610.D
 Acq: 11 Oct 2018 18:45

Tgt Ion: 45 Resp: 243940
 Ion Ratio Lower Upper
 45 100
 46 36.5 14.2 56.8





#15

Acetone

Concen: 44.236 ppbv

RT: 3.91 min Scan# 304

Delta R.T. -0.02 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

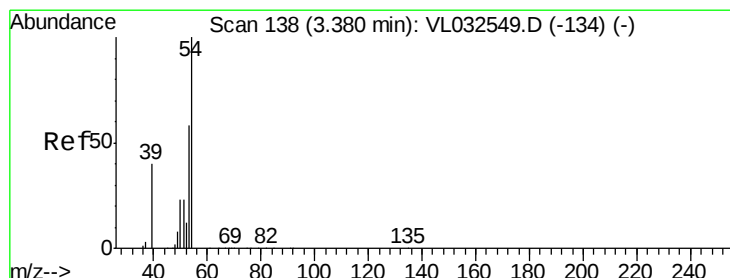
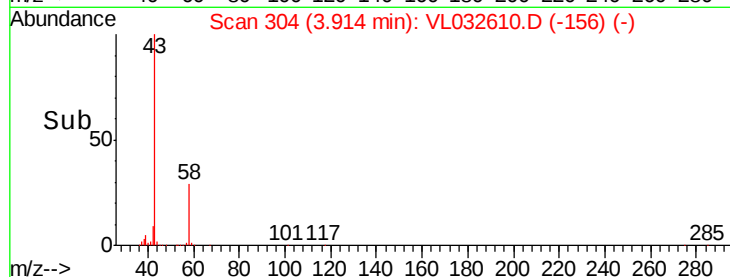
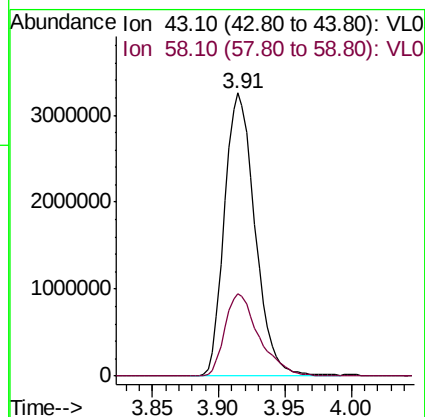
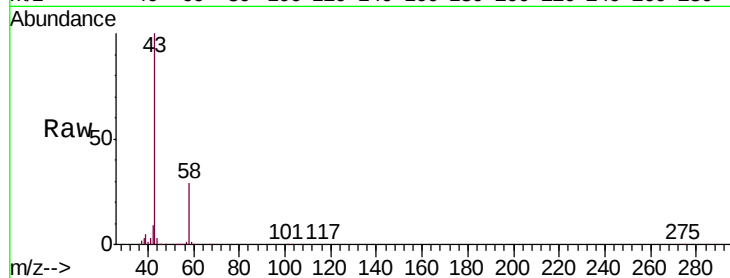
AMBIENT-SVI-100518DUP

Tgt Ion: 43 Resp: 5218302

Ion Ratio Lower Upper

43 100

58 32.8 22.6 33.8



#16

1,3-Butadiene

Concen: 8.286 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.04 min

Lab File: VL032610.D

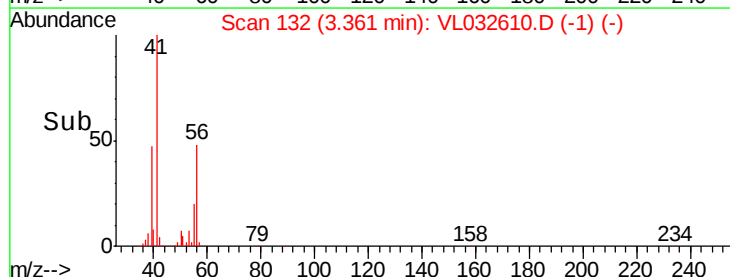
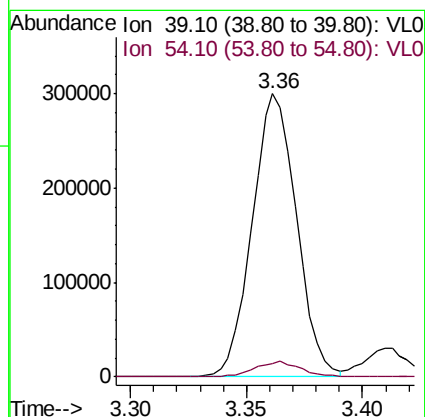
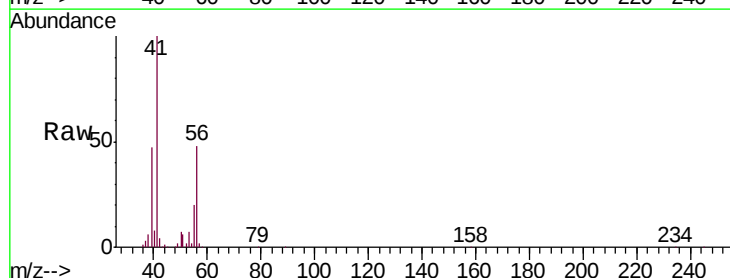
Acq: 11 Oct 2018 18:45

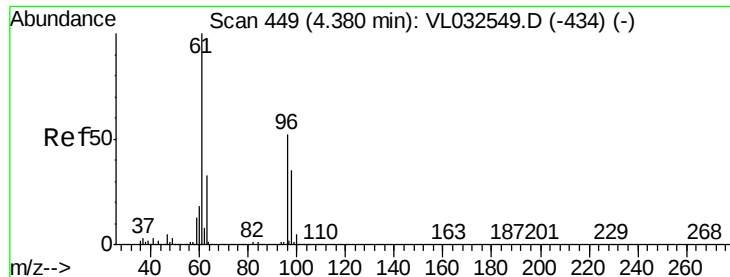
Tgt Ion: 39 Resp: 396383

Ion Ratio Lower Upper

39 100

54 6.0 80.8 121.2#





#17

tert-Butyl alcohol

Concen: 5.716 ppbv

RT: 4.39 min Scan# 451

Delta R.T. -0.02 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

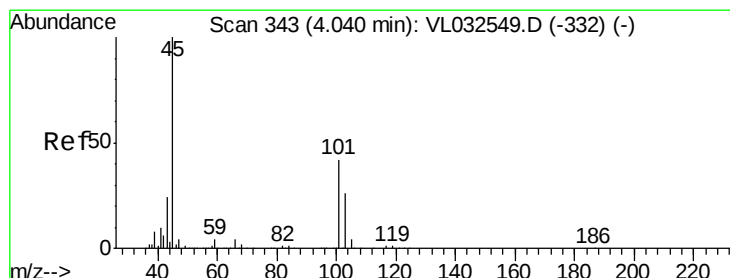
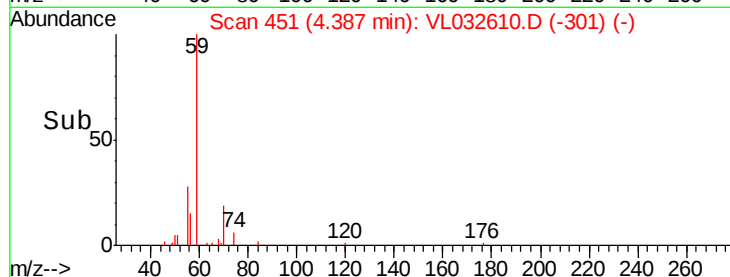
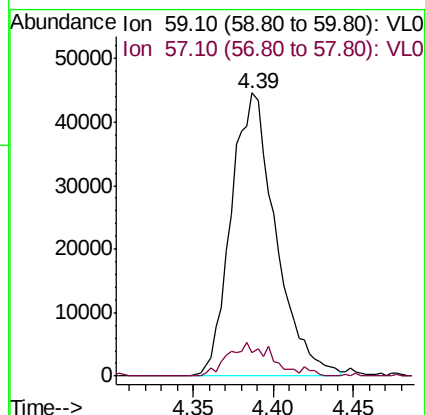
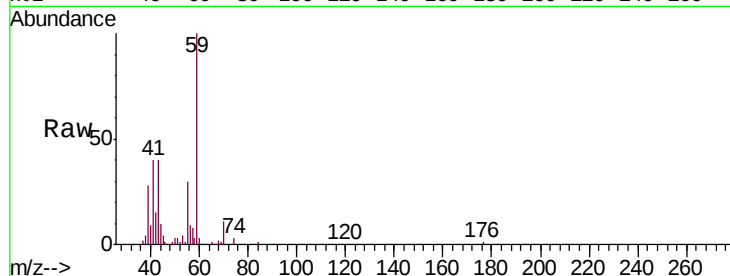
AMBIENT-SVI-100518DUP

Tgt Ion: 59 Resp: 84731

Ion Ratio Lower Upper

59 100

57 12.0 0.0 0.0#



#19

Isopropyl Alcohol

Concen: 0.286 ppbv

RT: 4.05 min Scan# 345

Delta R.T. -0.01 min

Lab File: VL032610.D

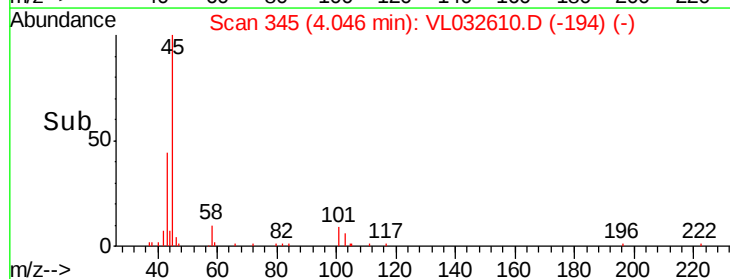
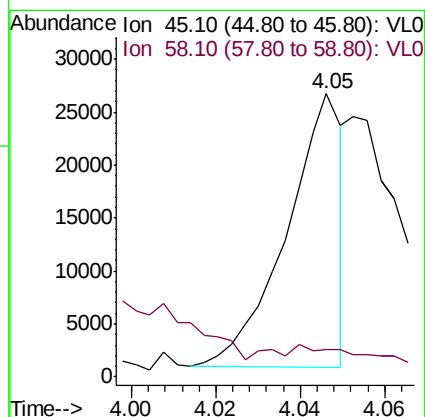
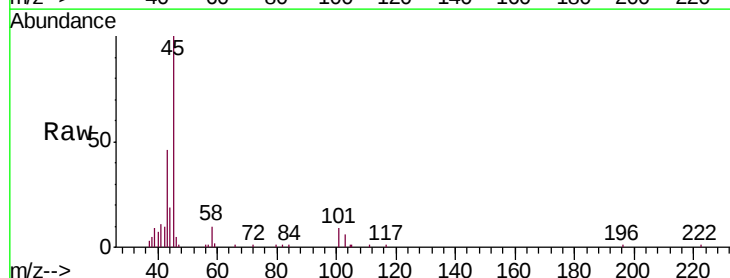
Acq: 11 Oct 2018 18:45

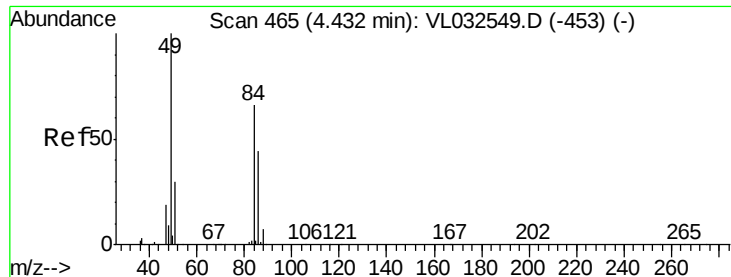
Tgt Ion: 45 Resp: 23493

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#

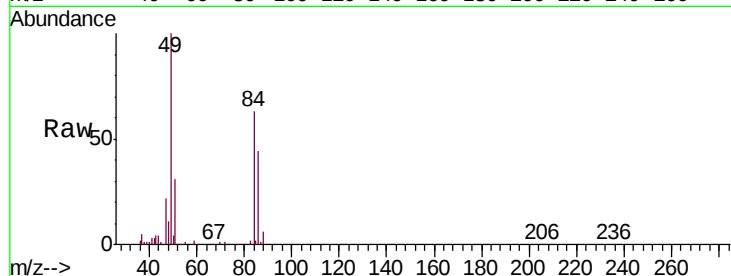




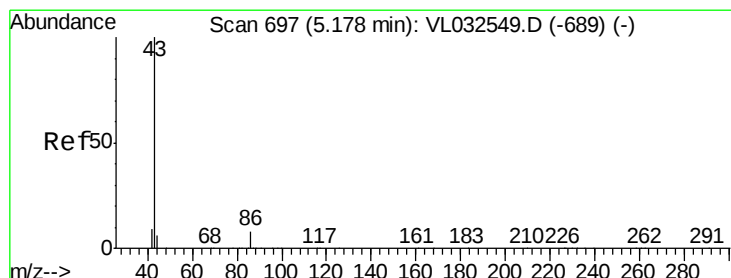
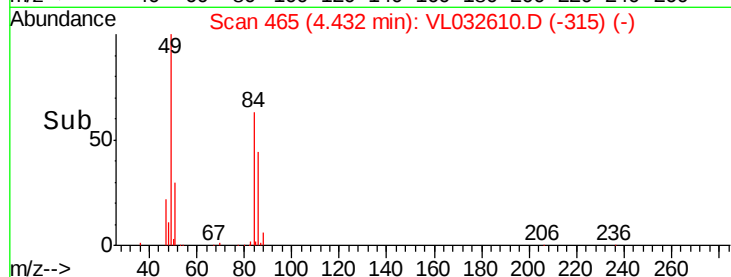
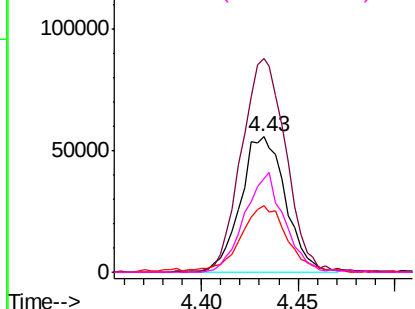
#20
Methylene Chloride
Concen: 1.569 ppbv
RT: 4.43 min Scan# 465
Delta R.T. -0.02 min
Lab File: VL032610.D
Acq: 11 Oct 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-SVI-100518DUP

Tgt Ion:	84	Resp:	89610
Ion	Ratio	Lower	Upper
84	100		
49	157.0	119.1	178.7
51	47.4	35.2	52.8
86	69.0	49.4	74.2

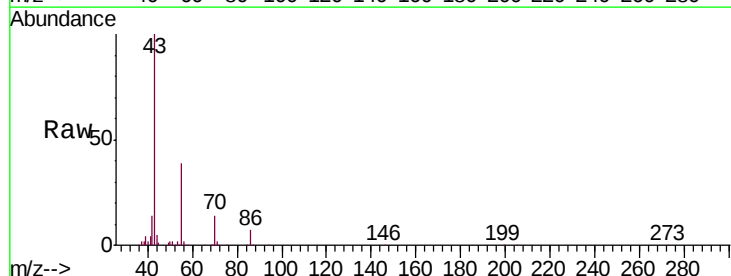


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

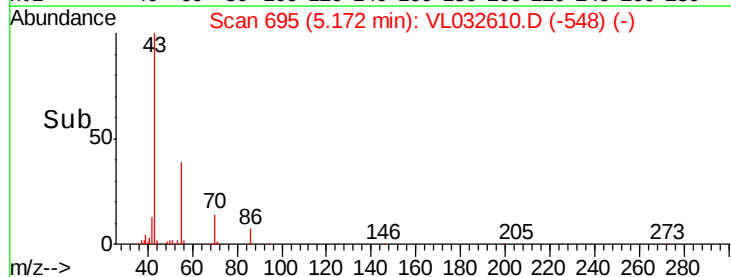
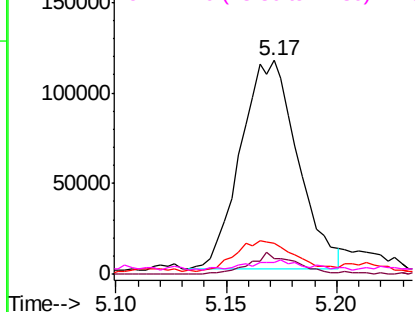


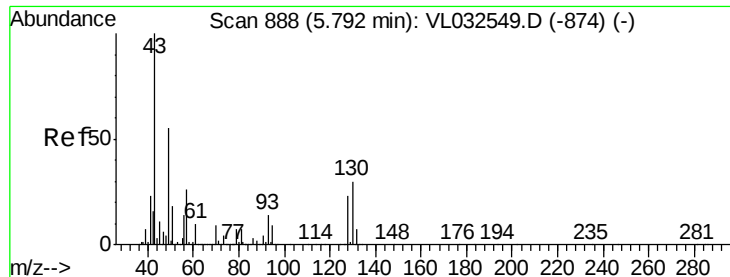
#23
Vinyl Acetate
Concen: 0.984 ppbv
RT: 5.17 min Scan# 695
Delta R.T. -0.03 min
Lab File: VL032610.D
Acq: 11 Oct 2018 18:45

Tgt Ion:	43	Resp:	205198
Ion	Ratio	Lower	Upper
43	100		
86	7.5	5.9	8.9
42	12.8	6.9	10.3#
44	3.6	4.6	7.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0

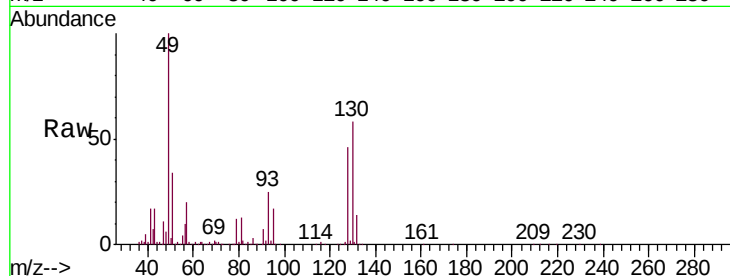




#25
Ethyl Acetate
Concen: 0.593 ppbv
RT: 5.80 min Scan# 890
Delta R.T. -0.02 min
Lab File: VL032610.D
Acq: 11 Oct 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-SVI-100518DUP

Tgt Ion:	43	Resp:	169819
Ion	Ratio	Lower	Upper
43	100		
45	5.7	8.0	12.0#
61	4.2	7.6	11.4#
70	5.2	5.8	8.8#



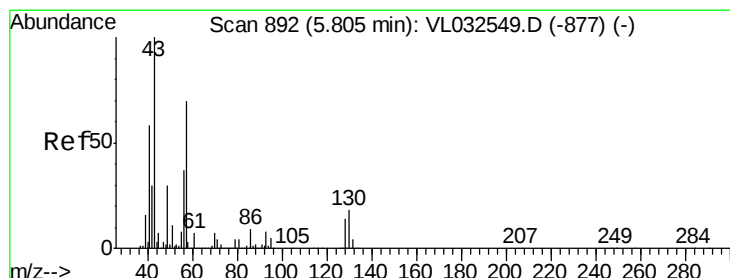
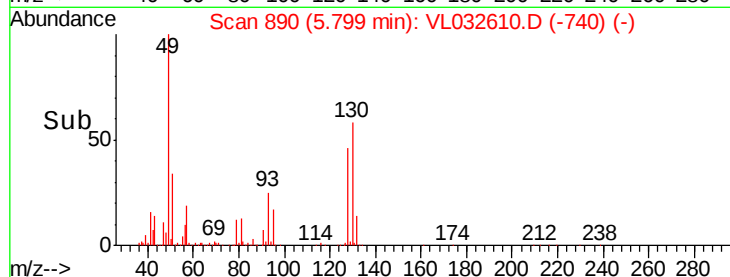
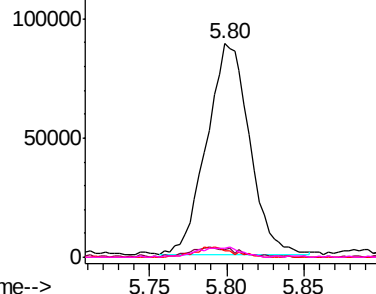
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

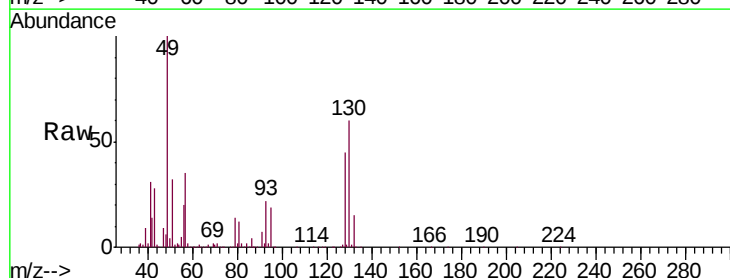
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 1.371 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032610.D
Acq: 11 Oct 2018 18:45

Tgt Ion:	57	Resp:	177233
Ion	Ratio	Lower	Upper
57	100		
41	108.1	69.0	103.4#
43	96.0	172.1	258.1#
56	63.1	42.2	63.2



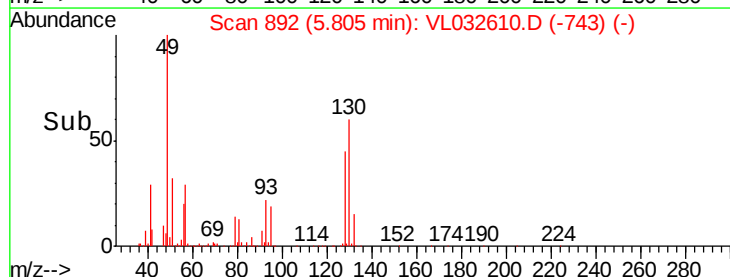
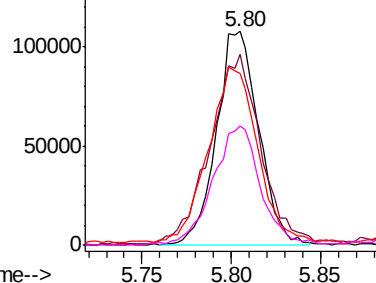
Abundance

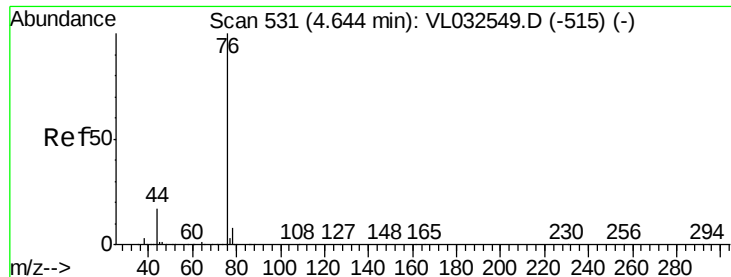
Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.090 ppbv

RT: 4.64 min Scan# 531

Delta R.T. -0.02 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518DUP

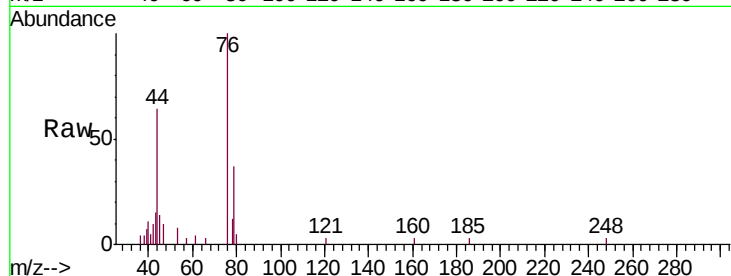
Tgt Ion: 76 Resp: 12552

Ion Ratio Lower Upper

76 100

44 55.5 14.0 21.0#

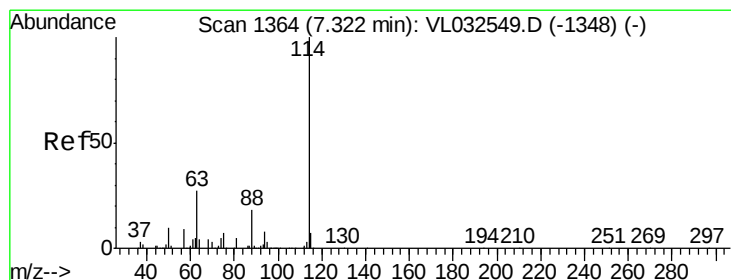
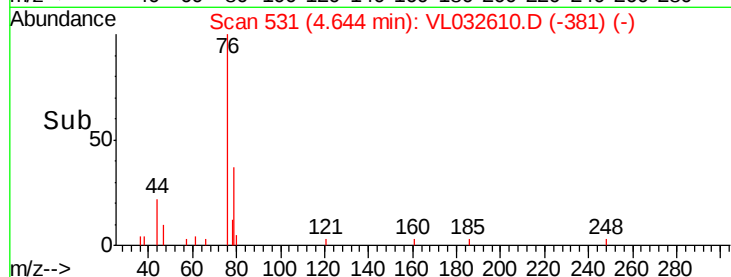
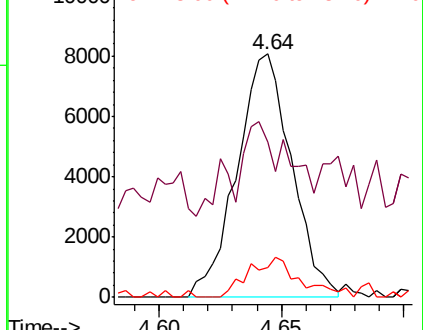
78 18.3 7.5 11.3#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

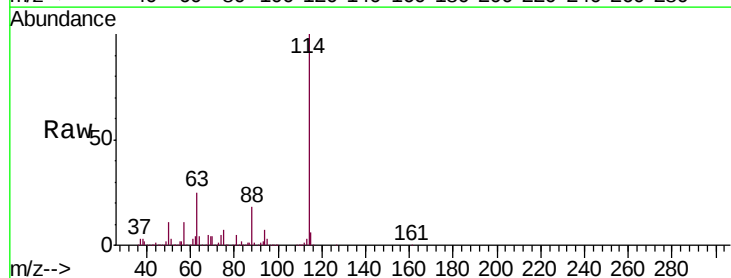
Tgt Ion: 114 Resp: 2719616

Ion Ratio Lower Upper

114 100

63 26.4 22.2 33.4

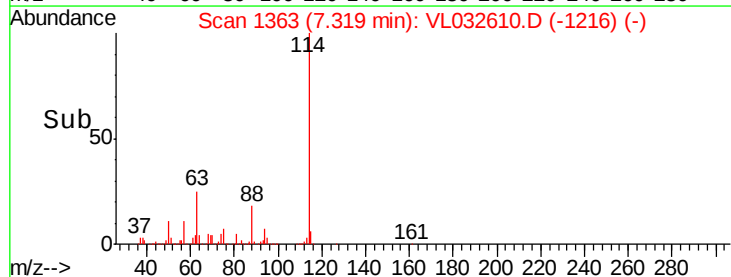
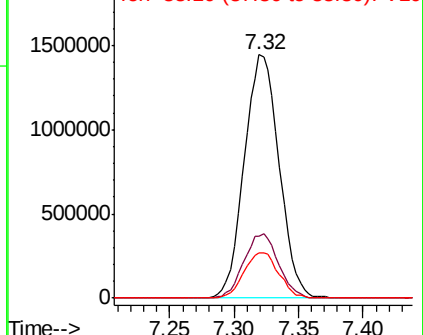
88 18.7 15.0 22.4

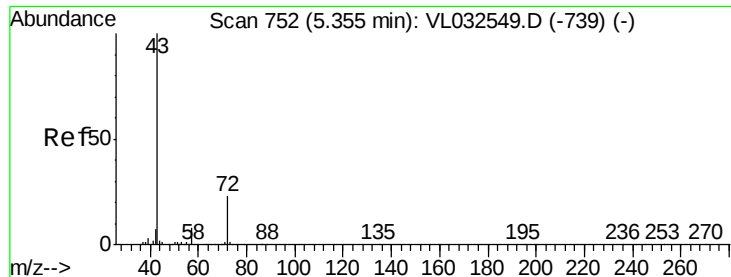


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 22.715 ppbv

RT: 5.35 min Scan# 749

Delta R.T. -0.03 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

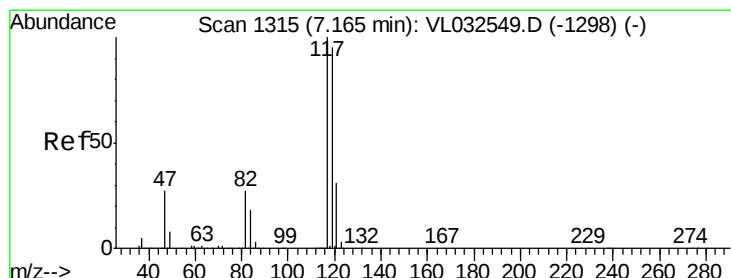
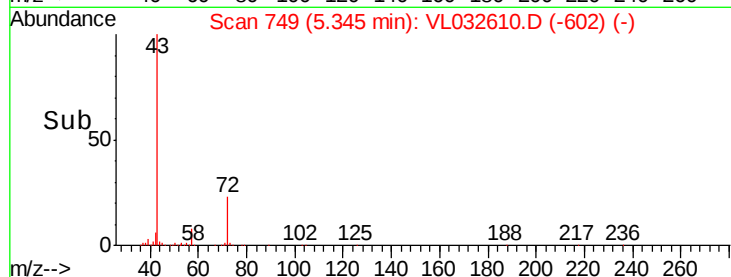
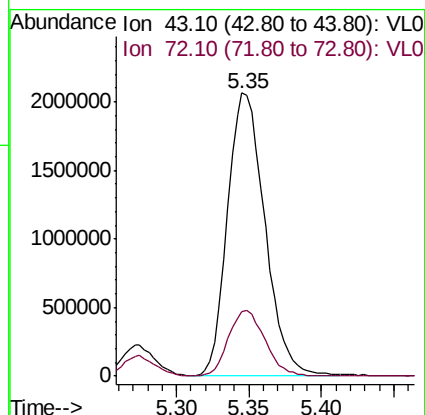
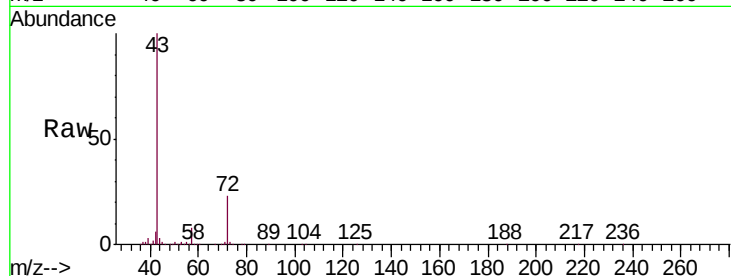
AMBIENT-SVI-100518DUP

Tgt Ion: 43 Resp: 3678693

Ion Ratio Lower Upper

43 100

72 23.0 17.8 26.6



#35

Carbon Tetrachloride

Concen: 0.046 ppbv

RT: 7.16 min Scan# 1312

Delta R.T. -0.03 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

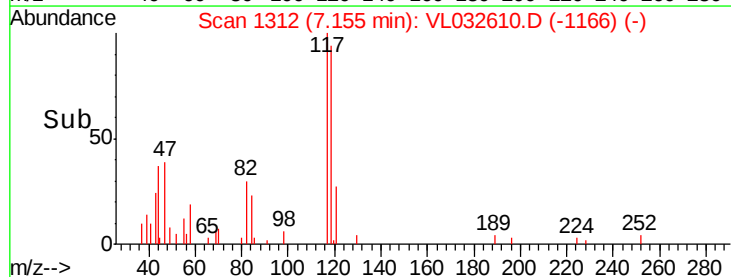
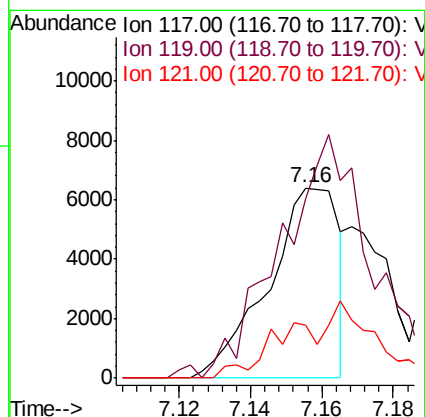
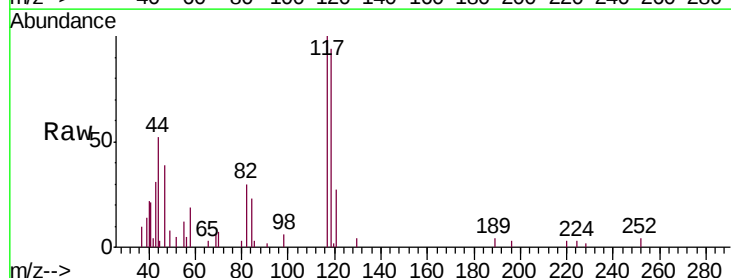
Tgt Ion: 117 Resp: 8738

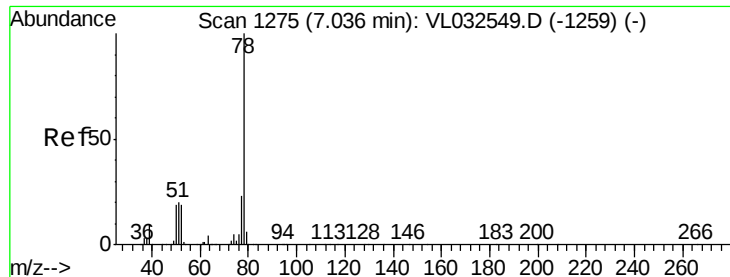
Ion Ratio Lower Upper

117 100

119 87.6 76.6 115.0

121 27.5 24.6 36.8





#36

Benzene

Concen: 0.422 ppbv

RT: 7.03 min Scan# 1274

Delta R.T. -0.02 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518DUP

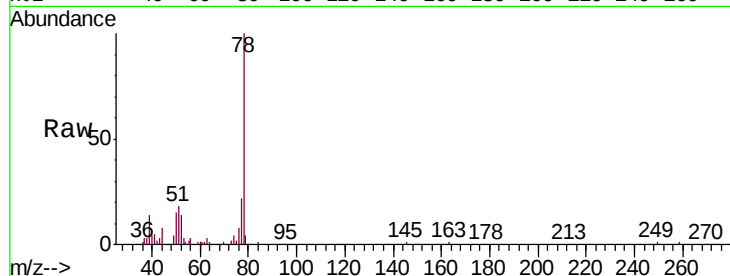
Tgt Ion: 78 Resp: 92824

Ion Ratio Lower Upper

78 100

77 22.3 18.4 27.6

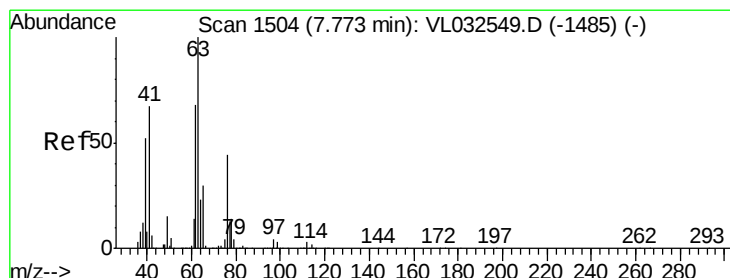
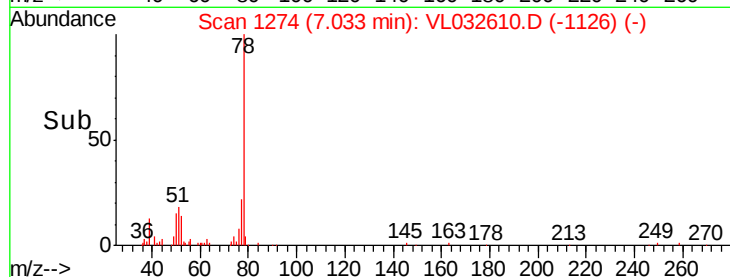
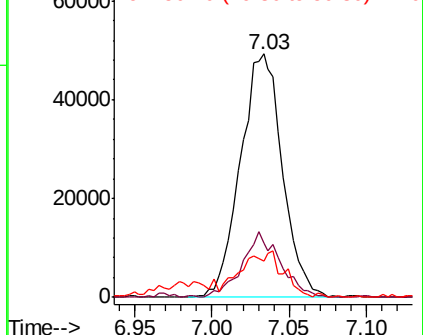
50 13.8 14.4 21.6#



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: 7.175 ppbv

RT: 7.32 min Scan# 1364

Delta R.T. -0.47 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

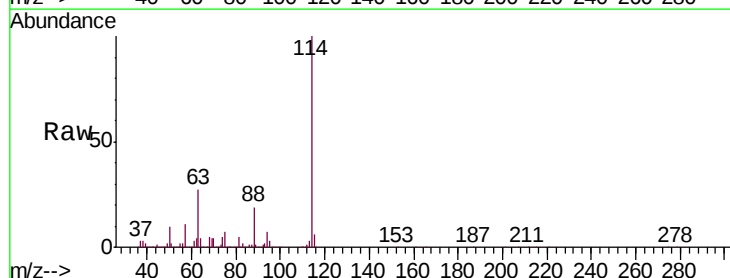
Tgt Ion: 63 Resp: 710667

Ion Ratio Lower Upper

63 100

41 0.2 55.4 83.0#

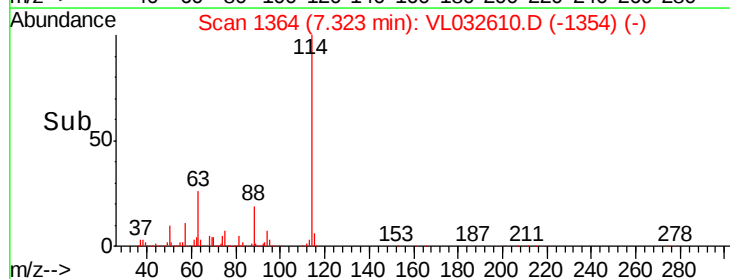
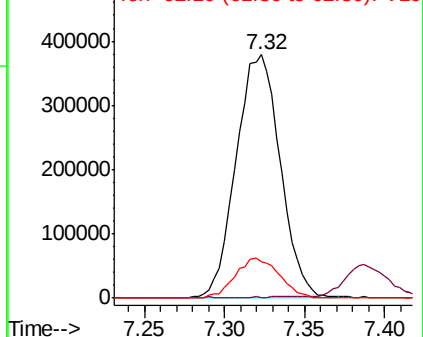
62 14.7 55.4 83.0#

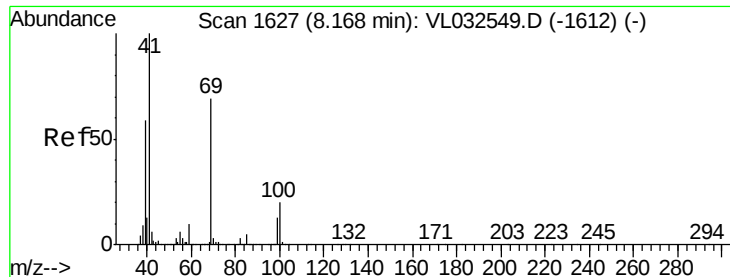


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#43

Methyl Methacrylate

Concen: 0.174 ppbv

RT: 8.21 min Scan# 1640

Delta R.T. 0.02 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518DUP

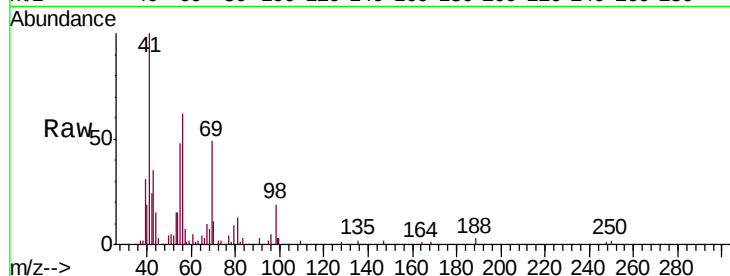
Tgt Ion: 69 Resp: 15954

Ion Ratio Lower Upper

69 100

41 201.9 117.1 175.7#

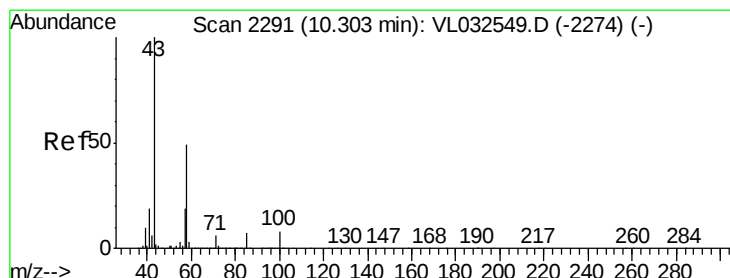
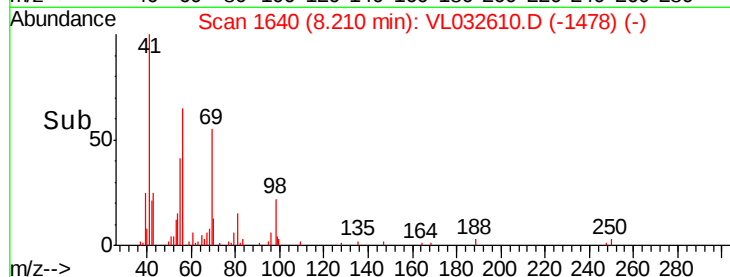
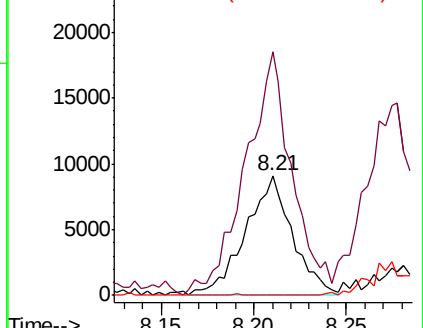
100 0.0 23.4 35.2#



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#51

2-Hexanone

Concen: 3.910 ppbv

RT: 10.30 min Scan# 2290

Delta R.T. -0.03 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

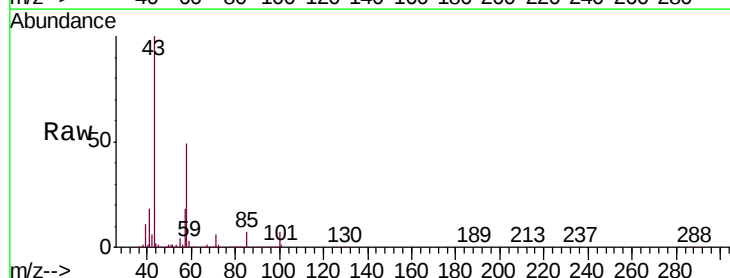
Tgt Ion: 43 Resp: 823209

Ion Ratio Lower Upper

43 100

58 49.8 39.2 58.8

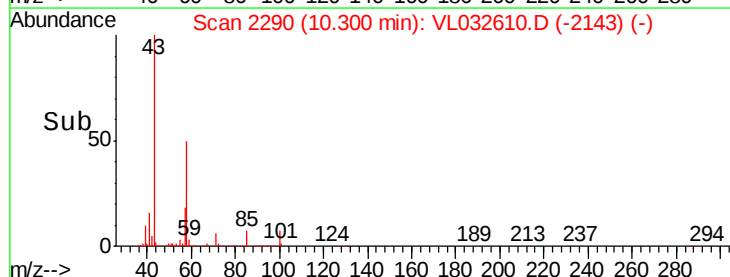
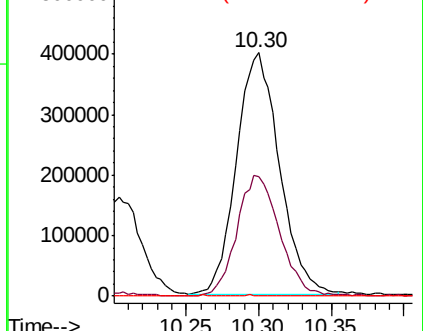
98 0.6 0.4 0.6#

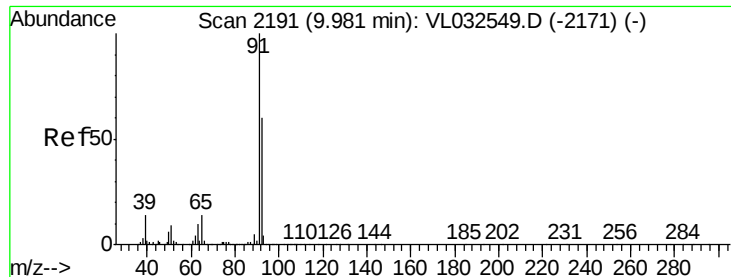


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#53

Toluene

Concen: 0.746 ppbv

RT: 9.98 min Scan# 2189

Delta R.T. -0.03 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

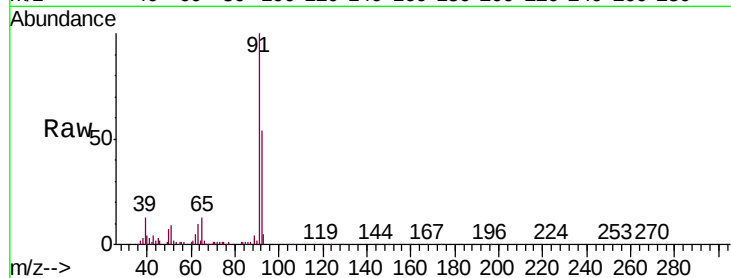
AMBIENT-SVI-100518DUP

Tgt Ion: 91 Resp: 199790

Ion Ratio Lower Upper

91 100

92 60.5 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.98

120000

100000

80000

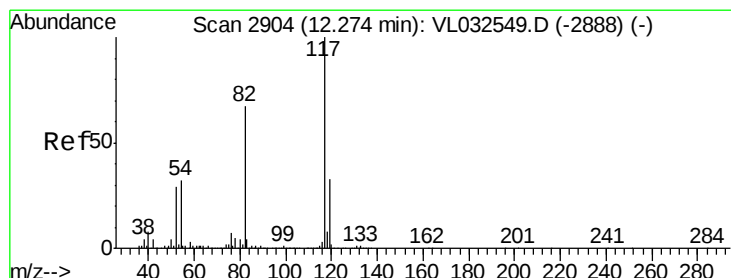
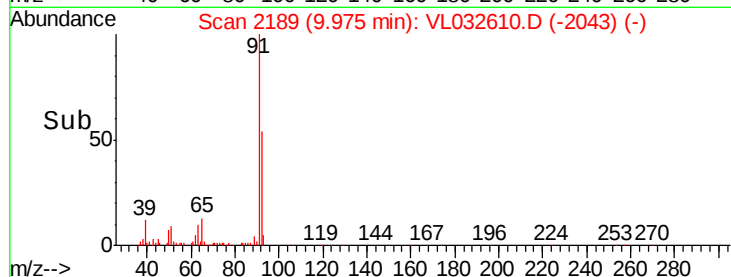
60000

40000

20000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. -0.03 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

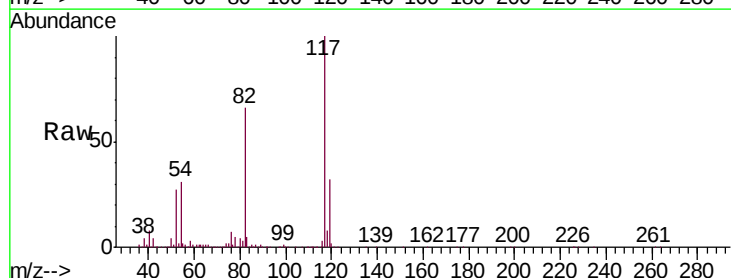
Tgt Ion: 117 Resp: 2964097

Ion Ratio Lower Upper

117 100

82 67.6 53.0 79.6

119 32.4 45.9 68.9#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

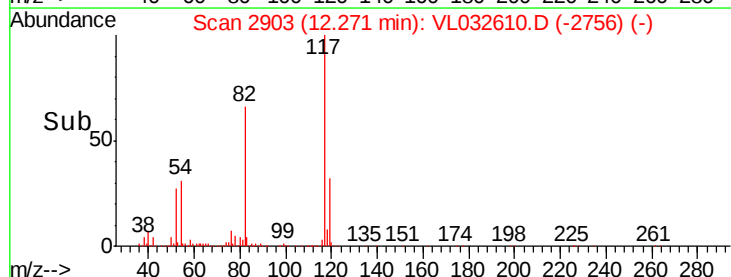
1500000

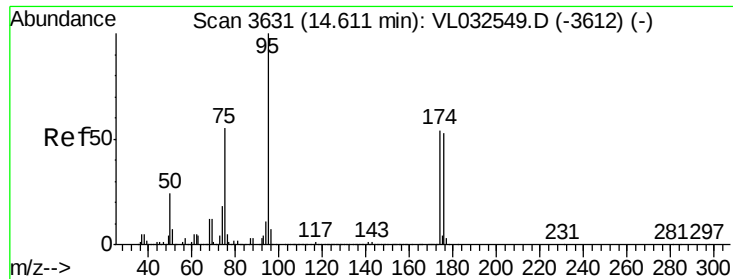
1000000

500000

0

Time-->





#68

1-Bromo-4-Fluorobenzene

Concen: 9.347 ppbv

RT: 14.61 min Scan# 3630

Delta R.T. -0.03 min

Lab File: VL032610.D

Acq: 11 Oct 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518DUP

Tgt Ion: 95 Resp: 2089286

Ion Ratio Lower Upper

95 100

174 57.7 46.3 69.5

175 4.2 3.4 5.0

