

Data File : VL032826.D
Acq On : 28 Nov 2018 11:30
Operator : SY/AP
Sample : J6046-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01

Quant Time: Nov 28 14:36:19 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1306693	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3351705	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3047112	10.00	ppbv	0.00

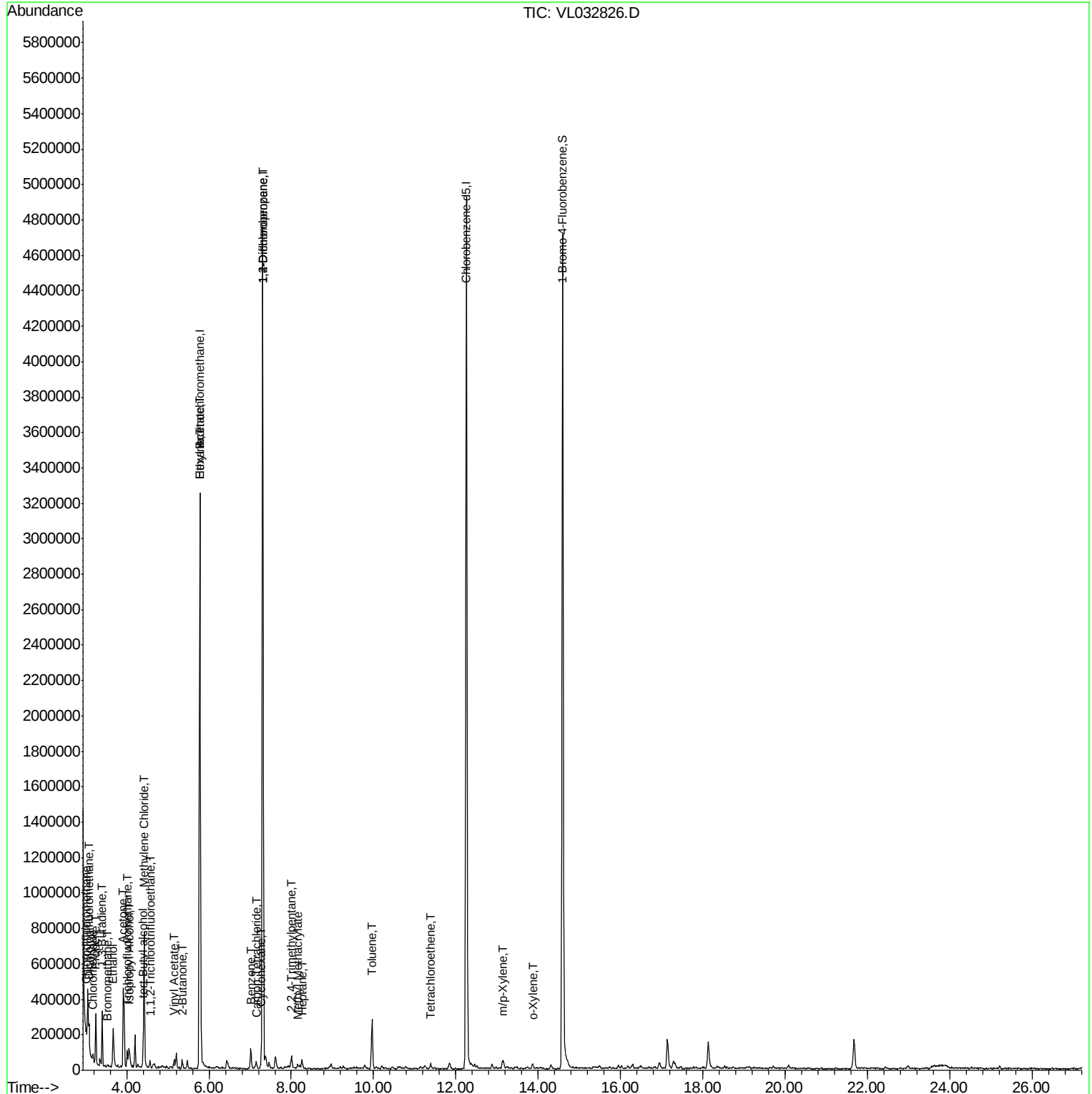
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.59 95 2238333 9.82 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 98.20%

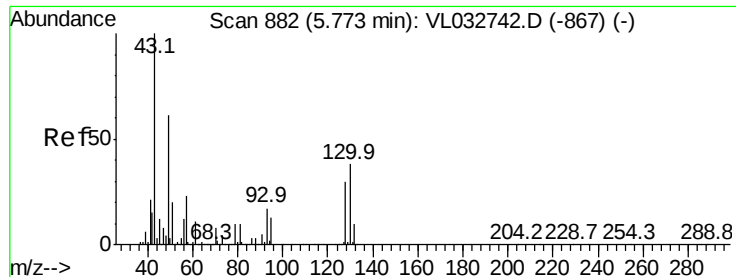
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	104030	0.554	ppbv	96
3) Chlorodifluoromethane	3.02	51	75590	0.730	ppbv #	83
4) Chloromethane	3.18	50	28235	0.492	ppbv	95
6) Bromomethane	3.53	94	1142	0.031	ppbv	96
9) Propene	3.25	41	74519	1.797	ppbv	98
10) Heptane	8.26	43	9372	0.059	ppbv #	44
11) Trichlorofluoromethane	4.01	101	64161	0.362	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.57	101	10999	0.076	ppbv #	74
13) Ethanol	3.67	45	255853	18.842	ppbv	99
15) Acetone	3.91	43	479192	4.016	ppbv	93
16) 1,3-Butadiene	3.40	39	40179	0.869	ppbv #	21
17) tert-Butyl alcohol	4.39	59	2734	0.073	ppbv #	73
19) Isopropyl Alcohol	4.06	45	123097	1.548	ppbv #	95
20) Methylene Chloride	4.42	84	259503	4.201	ppbv	97
23) Vinyl Acetate	5.17	43	8316	0.038	ppbv #	76
25) Ethyl Acetate	5.79	43	214572	0.772	ppbv #	87
26) Hexane	5.79	57	219451	1.773	ppbv #	52
30) Cyclohexane	7.26	84	3619	0.033	ppbv #	1
34) 2-Butanone	5.35	43	48683	0.280	ppbv	99
35) Carbon Tetrachloride	7.15	117	11661	0.043	ppbv	86
36) Benzene	7.02	78	82182	0.308	ppbv #	89
39) 1,2-Dichloropropane	7.30	63	825891	8.122	ppbv #	24
43) Methyl Methacrylate	8.15	69	3397	0.034	ppbv #	1
44) 2,2,4-Trimethylpentane	8.01	57	22026	0.049	ppbv #	1
52) Tetrachloroethene	11.39	164	3489	0.038	ppbv #	43
53) Toluene	9.96	91	192174	0.690	ppbv	98
59) m/p-Xylene	13.13	91	23581	0.072	ppbv #	30
60) o-Xylene	13.87	91	11556	0.035	ppbv #	63

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

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ClientSampleId :

EP2-OA-01

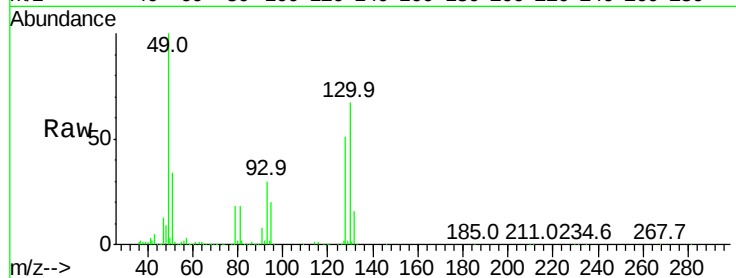
Tgt Ion: 49 Resp: 1306693

Ion Ratio Lower Upper

49 100

128 52.5 24.9 74.6

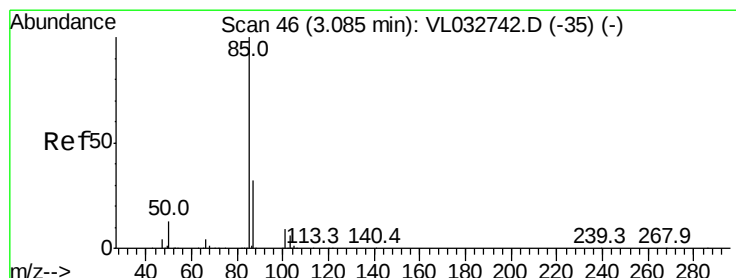
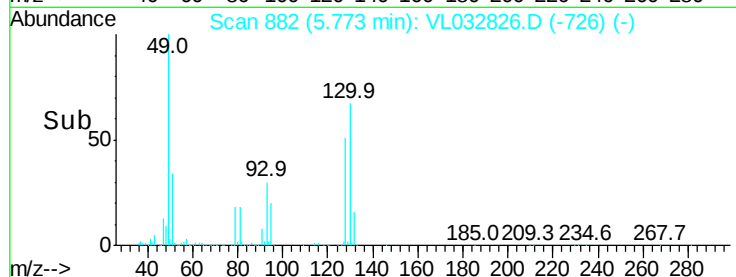
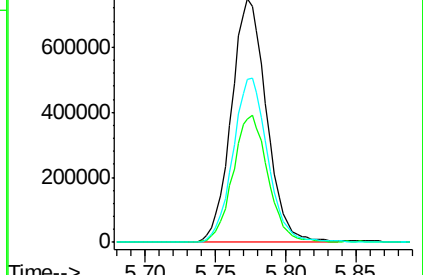
130 67.6 31.4 94.2



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



#2

Dichlorodifluoromethane

Concen: 0.554 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL032826.D

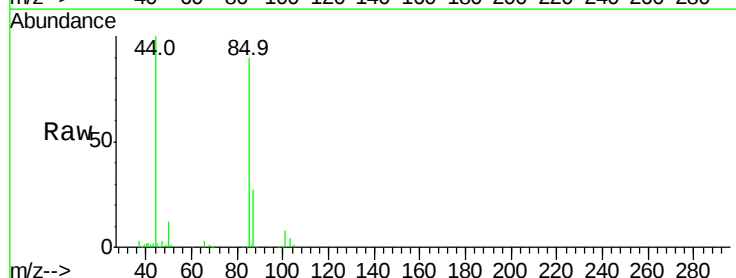
Acq: 28 Nov 2018 11:30

Tgt Ion: 85 Resp: 104030

Ion Ratio Lower Upper

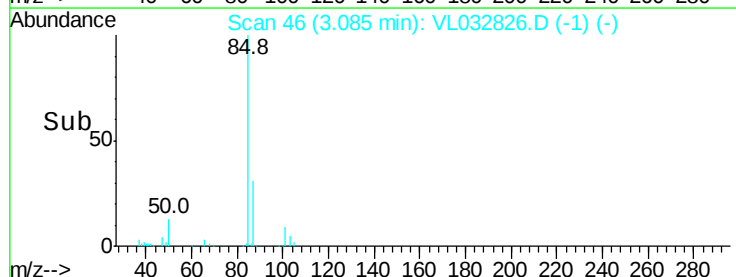
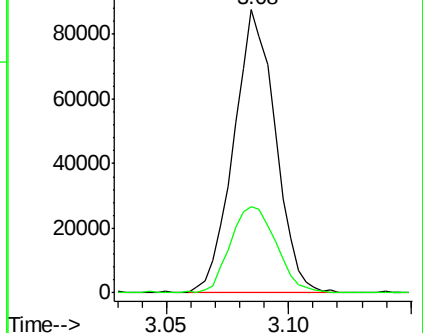
85 100

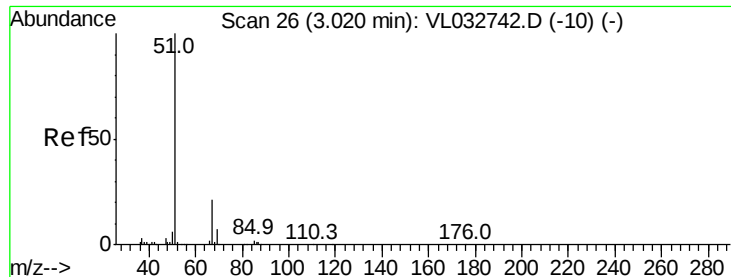
87 30.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

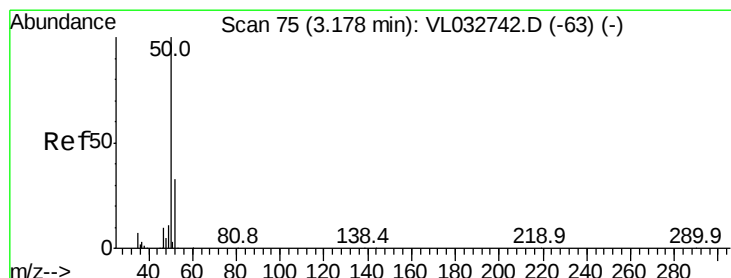
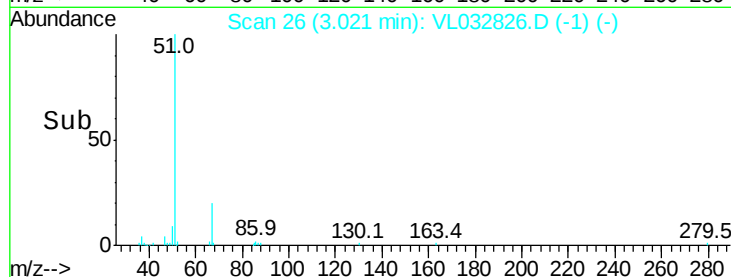
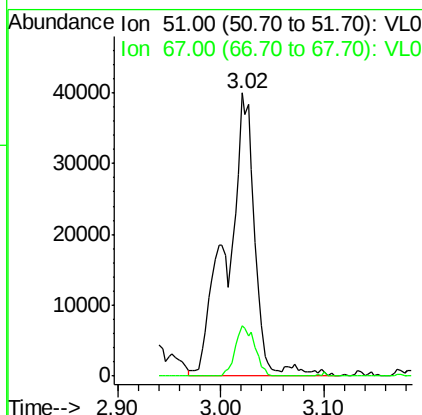
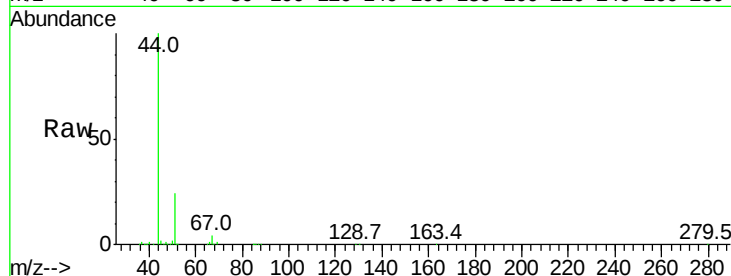




#3
Chlorodifluoromethane
Concen: 0.730 ppbv
RT: 3.02 min Scan# 26
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

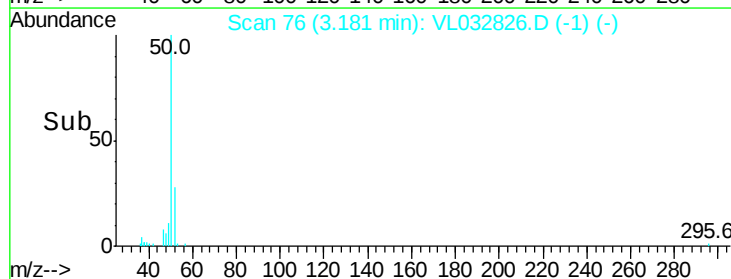
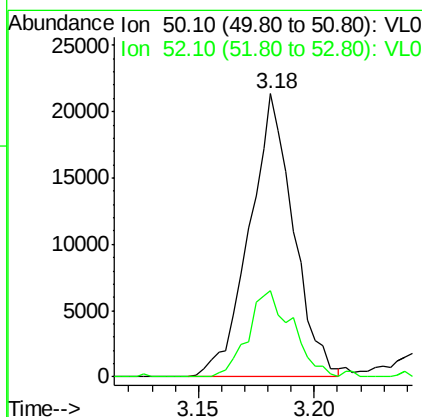
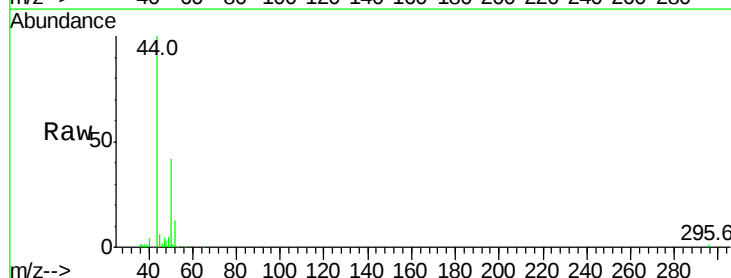
Instrument :
MSVOA_L
ClientSampleId :
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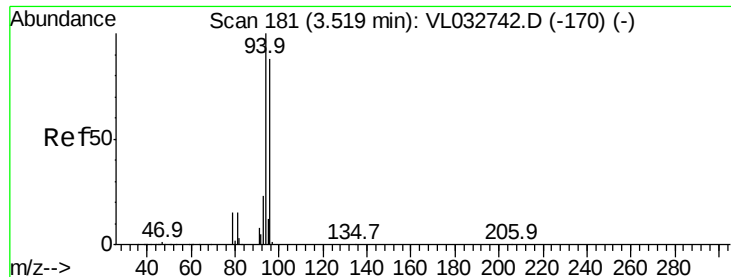
Tgt Ion: 51 Resp: 75590
Ion Ratio Lower Upper
51 100
67 12.4 16.1 24.1#



#4
Chloromethane
Concen: 0.492 ppbv
RT: 3.18 min Scan# 76
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Tgt Ion: 50 Resp: 28235
Ion Ratio Lower Upper
50 100
52 30.6 26.6 40.0





#6

Bromomethane

Concen: 0.031 ppbv

RT: 3.53 min Scan# 184

Delta R.T. 0.01 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :

MSVOA_L

ClientSampleId :

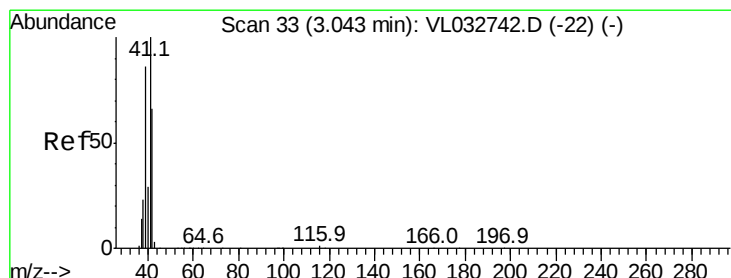
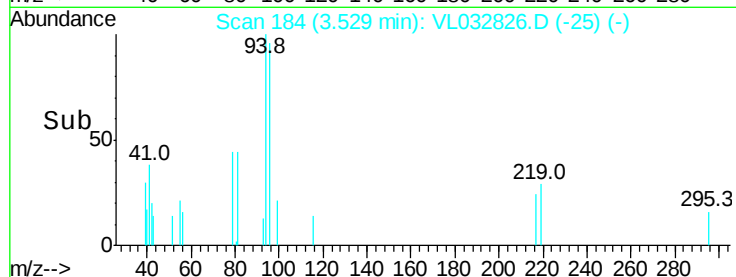
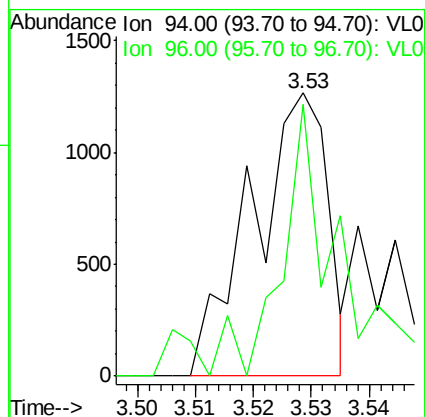
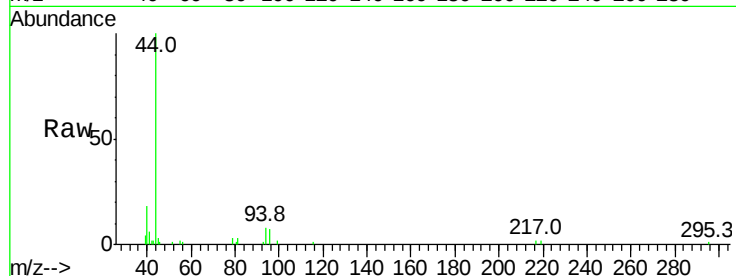
EP2-OA-01

Tgt Ion: 94 Resp: 1142

Ion Ratio Lower Upper

94 100

96 83.8 70.2 105.2



#9

Propene

Concen: 1.797 ppbv

RT: 3.25 min Scan# 97

Delta R.T. 0.21 min

Lab File: VL032826.D

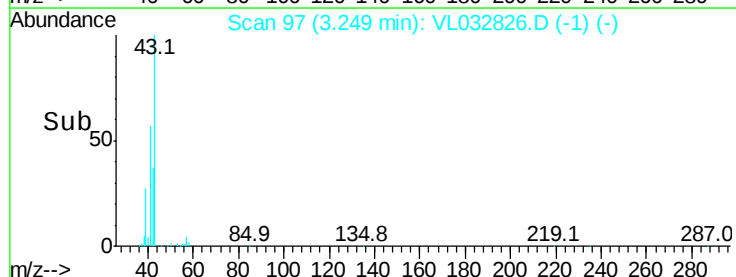
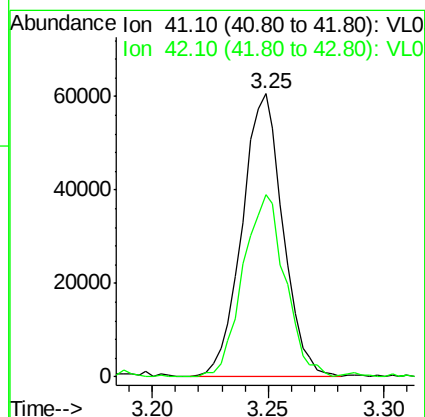
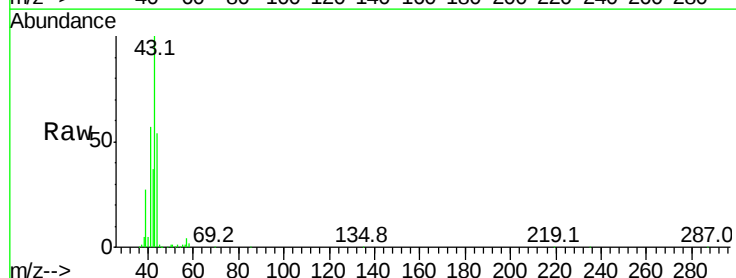
Acq: 28 Nov 2018 11:30

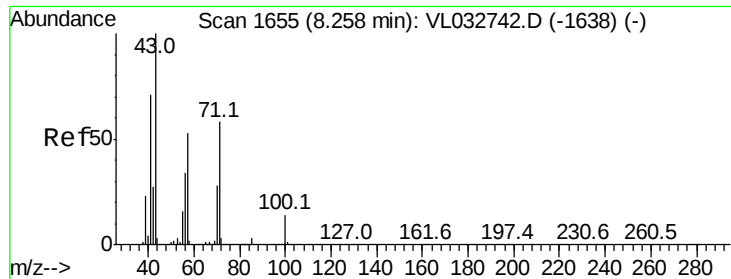
Tgt Ion: 41 Resp: 74519

Ion Ratio Lower Upper

41 100

42 67.2 55.0 82.6

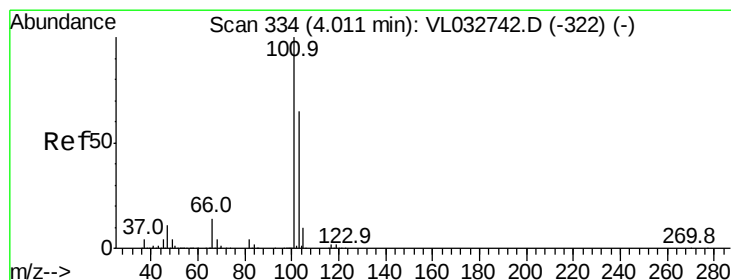
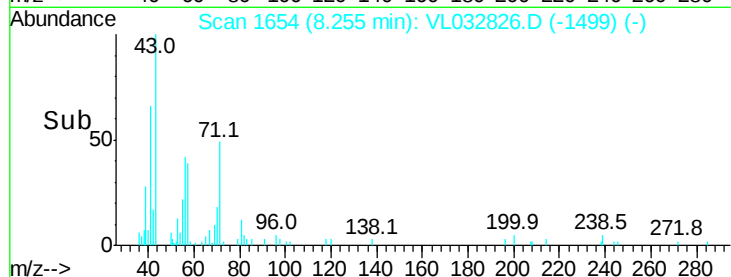
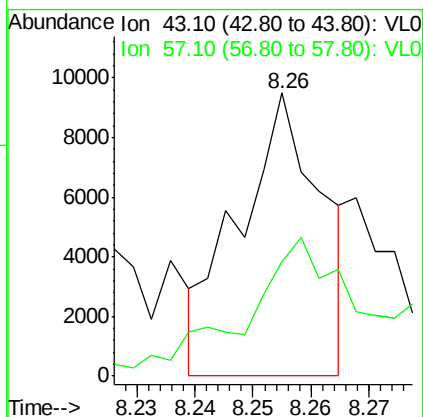
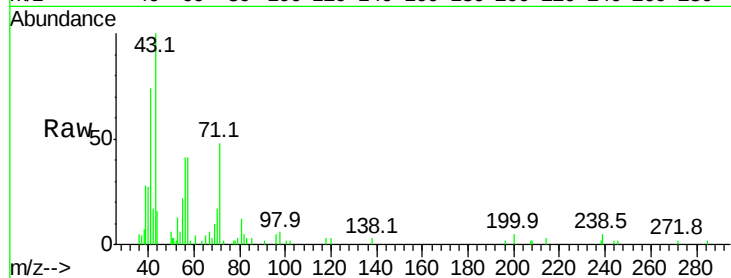




#10
 Heptane
 Concen: 0.059 ppbv
 RT: 8.26 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VL032826.D
 Acq: 28 Nov 2018 11:30

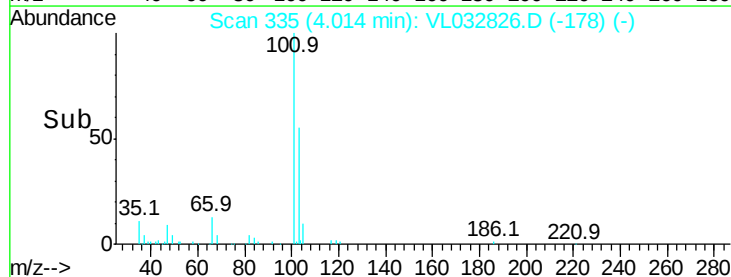
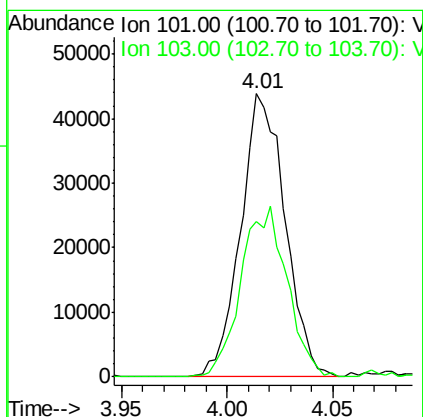
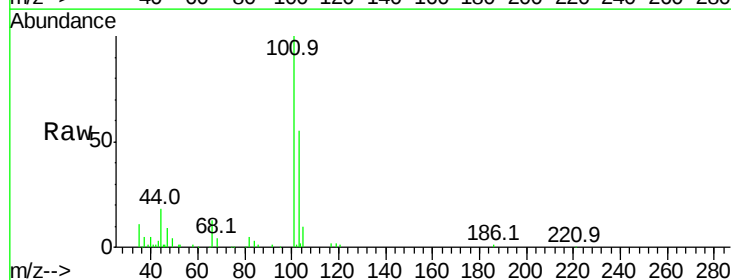
Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-OA-01

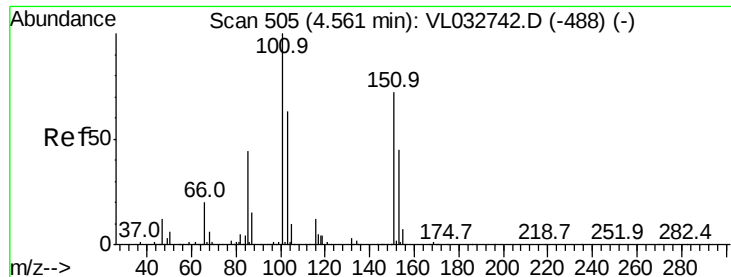
Tgt Ion: 43 Resp: 9372
 Ion Ratio Lower Upper
 43 100
 57 91.7 41.8 62.8#



#11
 Trichlorofluoromethane
 Concen: 0.362 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL032826.D
 Acq: 28 Nov 2018 11:30

Tgt Ion:101 Resp: 64161
 Ion Ratio Lower Upper
 101 100
 103 54.9 51.6 77.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.076 ppbv

RT: 4.57 min Scan# 507

Delta R.T. 0.01 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :

MSVOA_L

ClientSampleId :

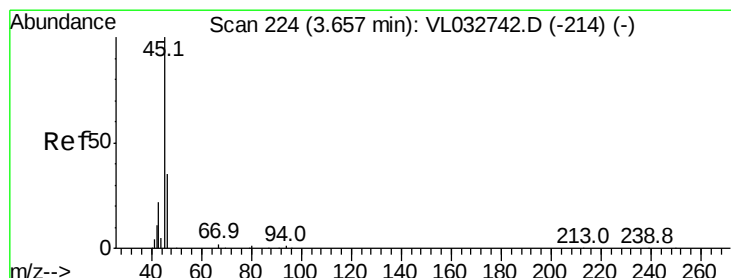
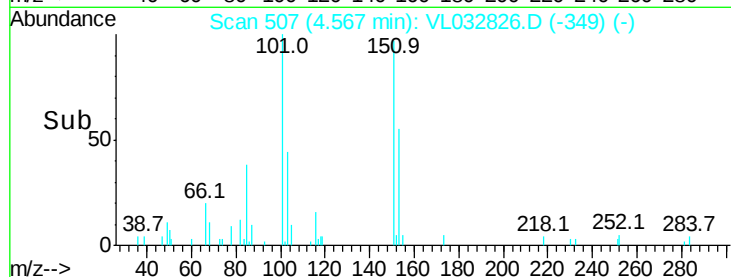
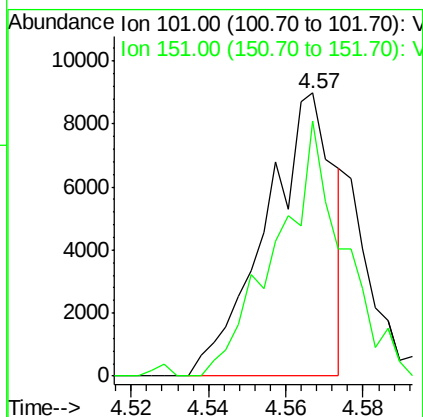
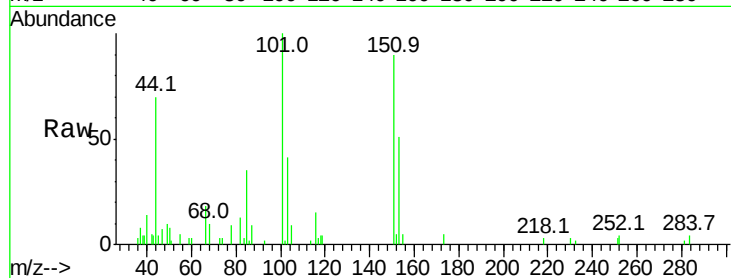
EP2-OA-01

Tgt Ion:101 Resp: 10999

Ion Ratio Lower Upper

101 100

151 92.2 56.7 85.1#



#13

Ethanol

Concen: 18.842 ppbv

RT: 3.67 min Scan# 229

Delta R.T. 0.02 min

Lab File: VL032826.D

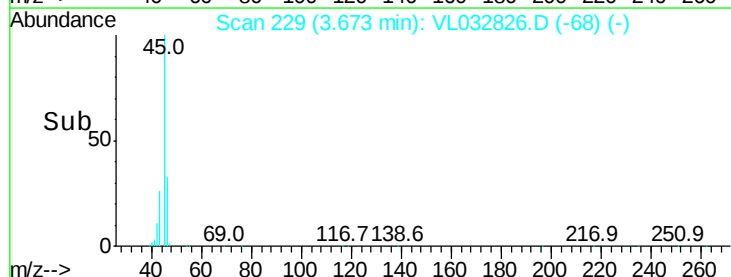
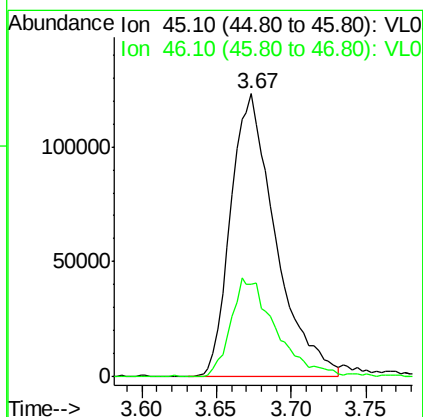
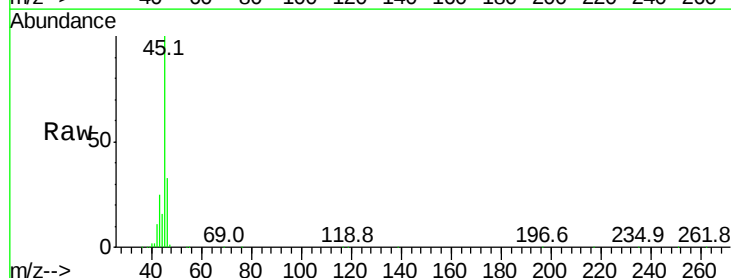
Acq: 28 Nov 2018 11:30

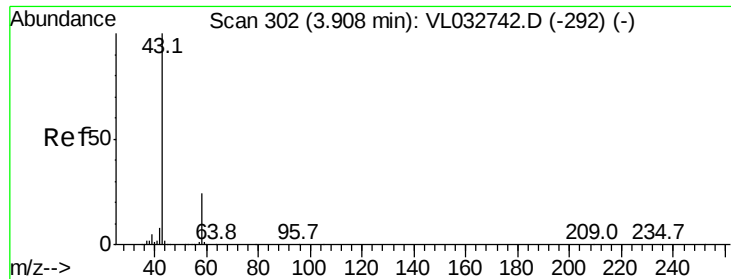
Tgt Ion: 45 Resp: 255853

Ion Ratio Lower Upper

45 100

46 35.9 14.5 57.9





#15

Acetone

Concen: 4.016 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :

MSVOA_L

ClientSampleId :

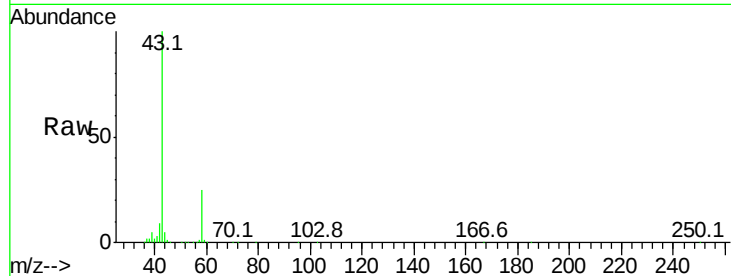
EP2-OA-01

Tgt Ion: 43 Resp: 479192

Ion Ratio Lower Upper

43 100

58 23.0 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

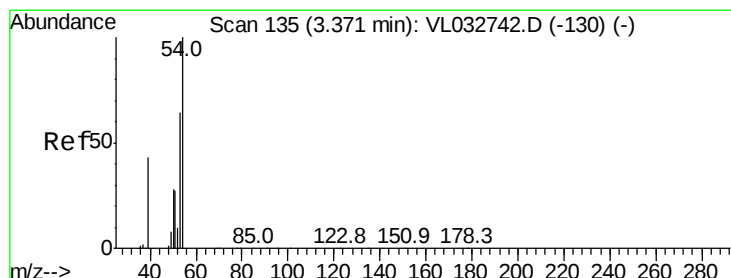
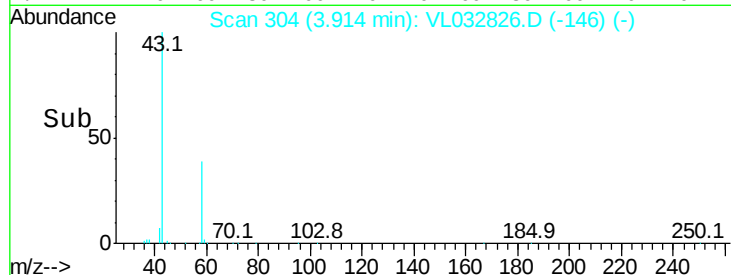
300000

200000

100000

0

Time-->



#16

1,3-Butadiene

Concen: 0.869 ppbv

RT: 3.40 min Scan# 145

Delta R.T. 0.03 min

Lab File: VL032826.D

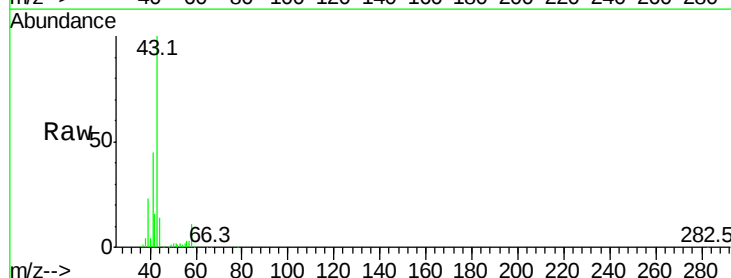
Acq: 28 Nov 2018 11:30

Tgt Ion: 39 Resp: 40179

Ion Ratio Lower Upper

39 100

54 13.5 68.9 103.3#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.40

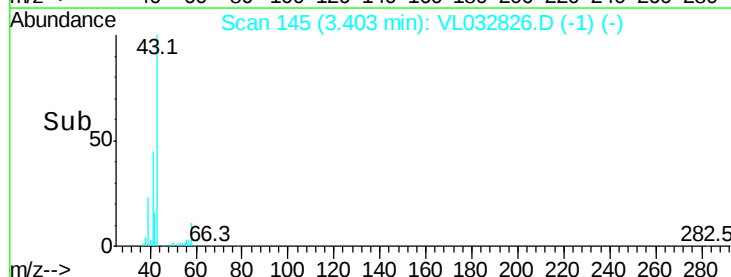
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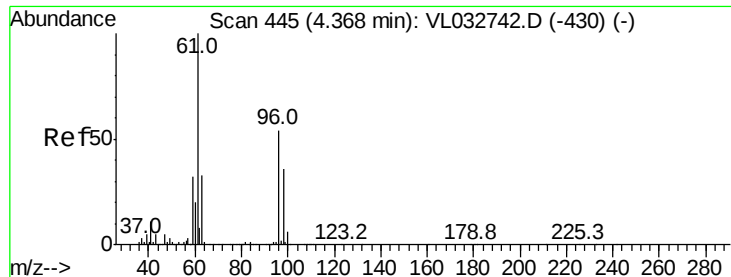
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10000

0

Time-->

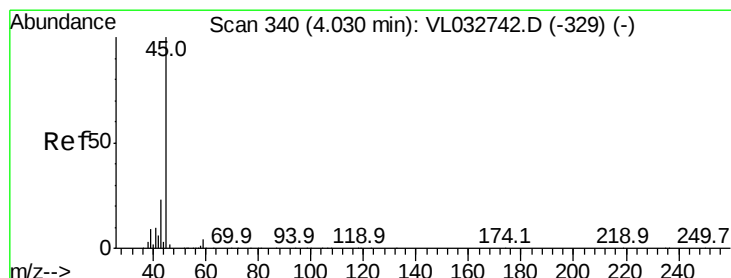
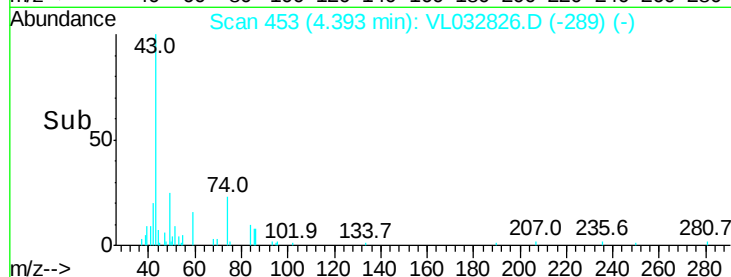
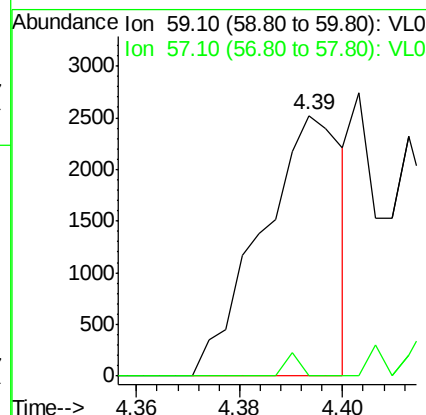
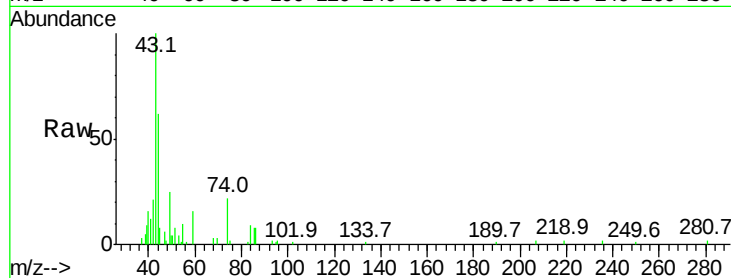




#17
 tert-Butyl alcohol
 Concen: 0.073 ppbv
 RT: 4.39 min Scan# 453
 Delta R.T. 0.03 min
 Lab File: VL032826.D
 Acq: 28 Nov 2018 11:30

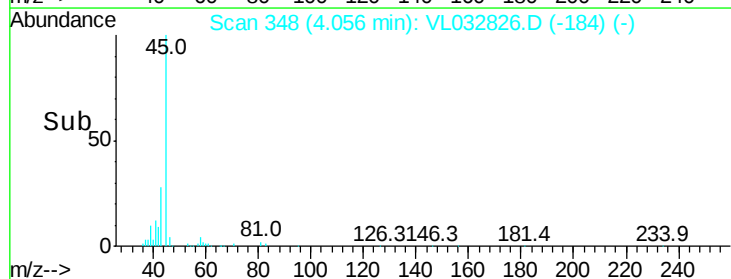
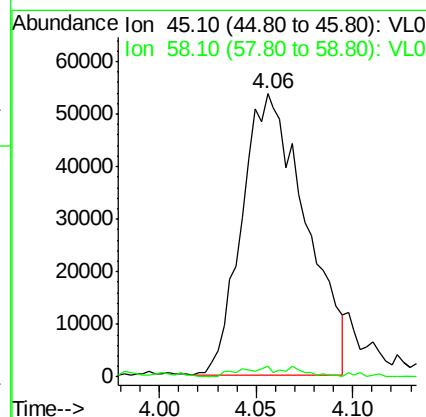
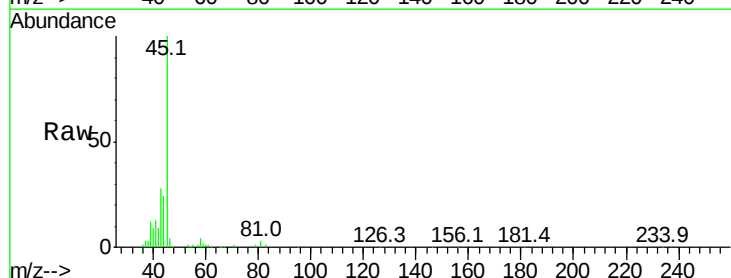
Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-OA-01

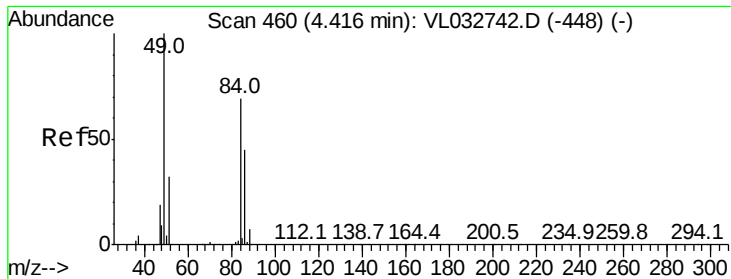
Tgt Ion: 59 Resp: 2734
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#



#19
 Isopropyl Alcohol
 Concen: 1.548 ppbv
 RT: 4.06 min Scan# 348
 Delta R.T. 0.03 min
 Lab File: VL032826.D
 Acq: 28 Nov 2018 11:30

Tgt Ion: 45 Resp: 123097
 Ion Ratio Lower Upper
 45 100
 58 3.7 1.4 2.0#

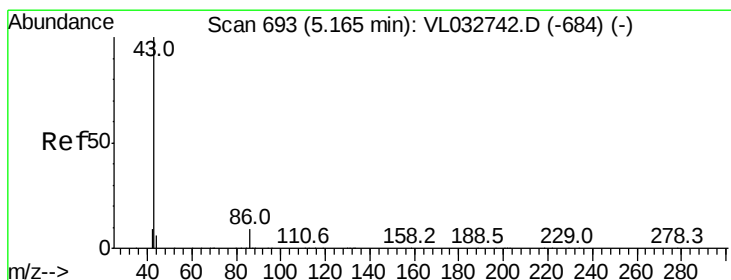
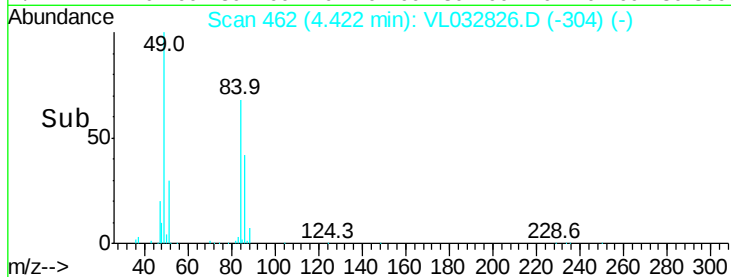
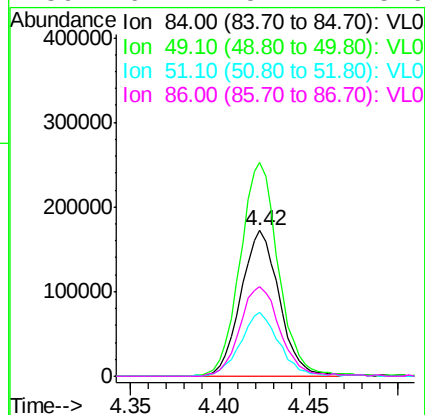
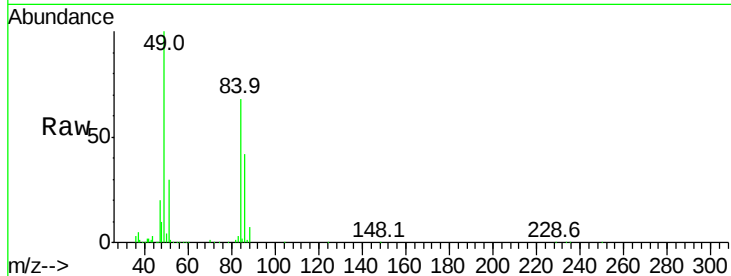




#20
Methylene Chloride
Concen: 4.201 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.01 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

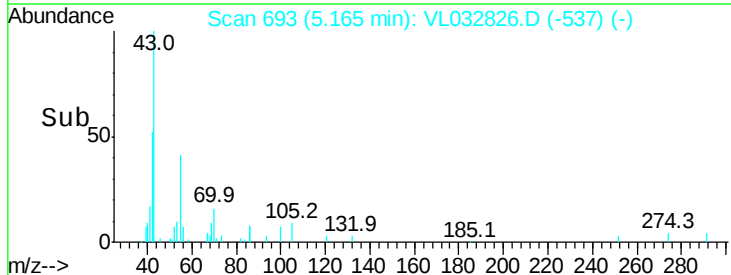
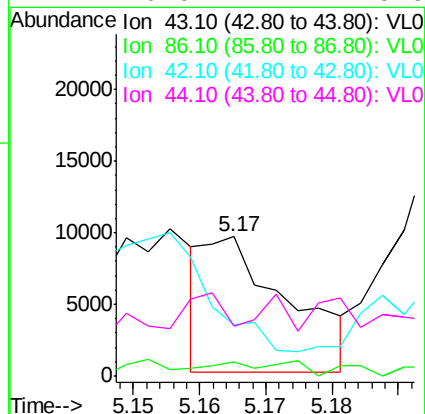
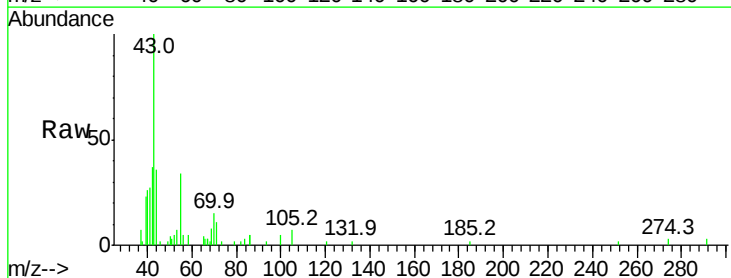
Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01

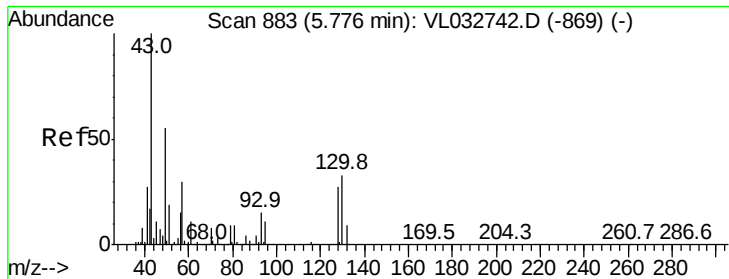
Tgt Ion:	84	Resp:	259503
Ion	Ratio	Lower	Upper
84	100		
49	146.7	115.8	173.6
51	44.1	36.9	55.3
86	61.4	52.4	78.6



#23
Vinyl Acetate
Concen: 0.038 ppbv
RT: 5.17 min Scan# 693
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Tgt Ion:	43	Resp:	8316
Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.2	9.4
42	27.0	7.8	11.6#
44	0.0	4.4	6.6#





#25

Ethyl Acetate

Concen: 0.772 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.01 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01

Tgt Ion: 43 Resp: 214572

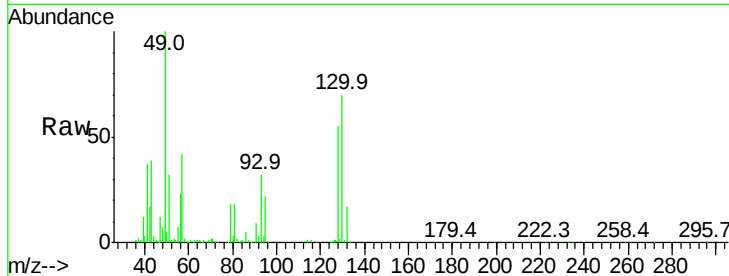
Ion Ratio Lower Upper

43 100

45 4.5 7.9 11.9#

61 4.4 7.8 11.6#

70 4.0 5.8 8.6#

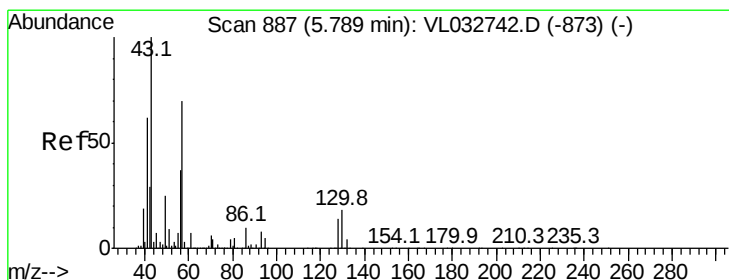
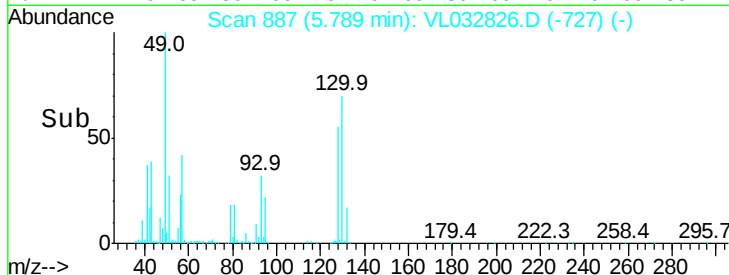
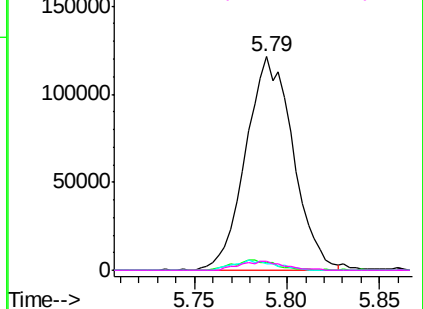


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.773 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.00 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Tgt Ion: 57 Resp: 219451

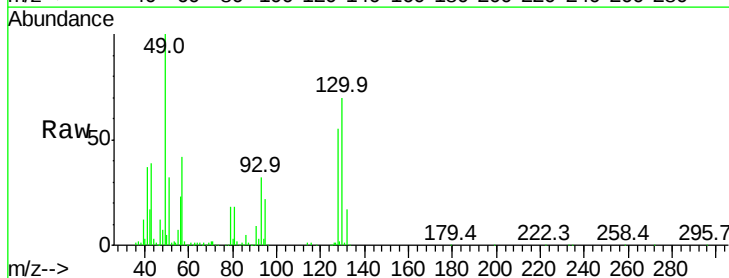
Ion Ratio Lower Upper

57 100

41 97.4 70.3 105.5

43 99.0 174.0 261.0#

56 56.6 42.3 63.5

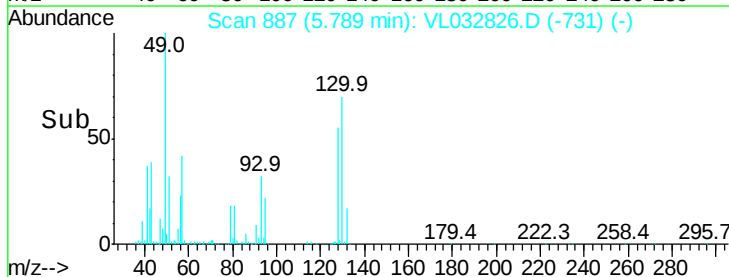
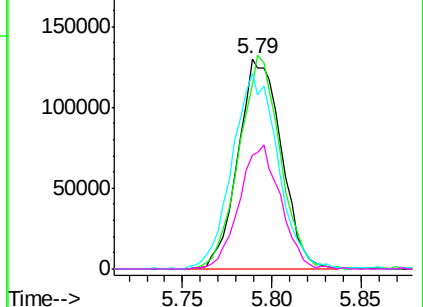


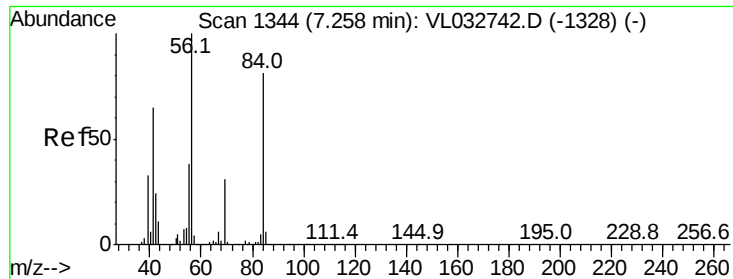
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

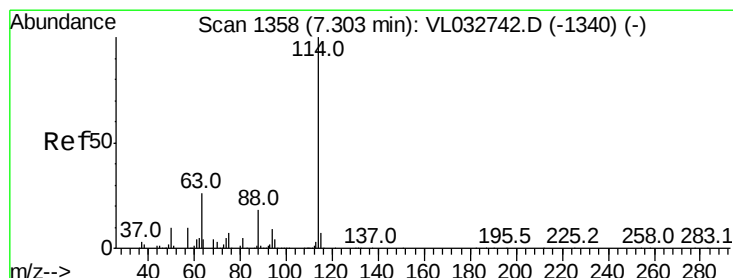
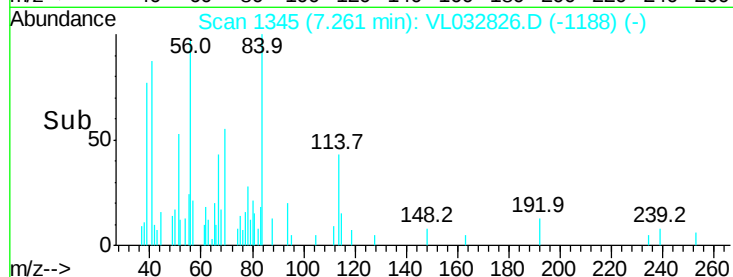
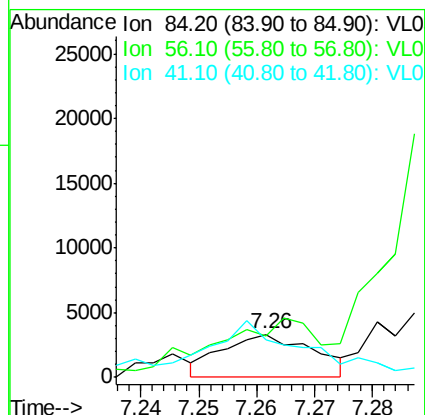
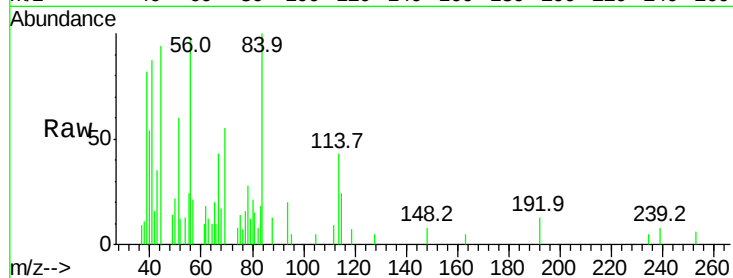




#30
Cyclohexane
Concen: 0.033 ppbv
RT: 7.26 min Scan# 1345
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

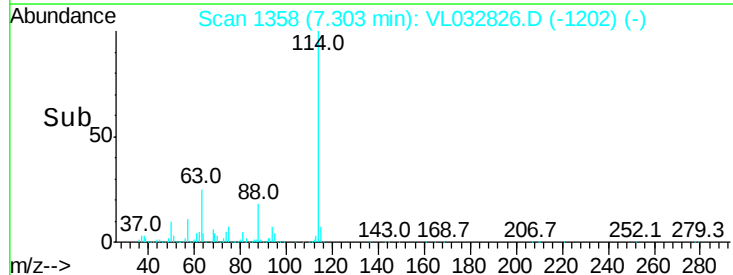
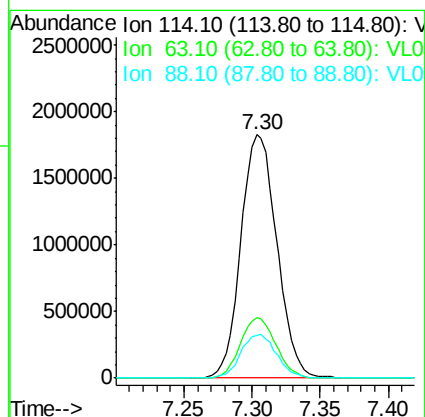
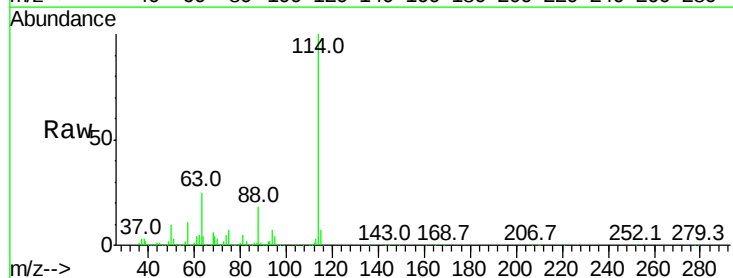
Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01

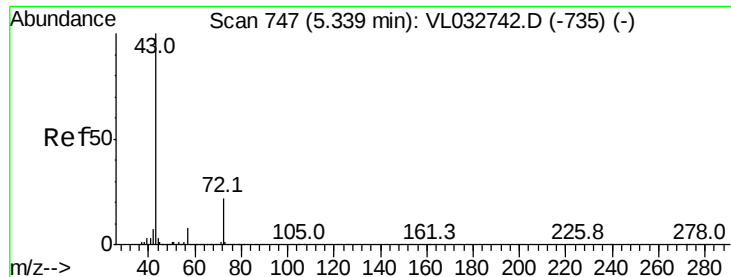
Tgt Ion: 84 Resp: 3619
Ion Ratio Lower Upper
84 100
56 0.0 105.0 157.4#
41 185.0 65.3 97.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Tgt Ion: 114 Resp: 3351705
Ion Ratio Lower Upper
114 100
63 24.8 20.9 31.3
88 17.9 14.4 21.6

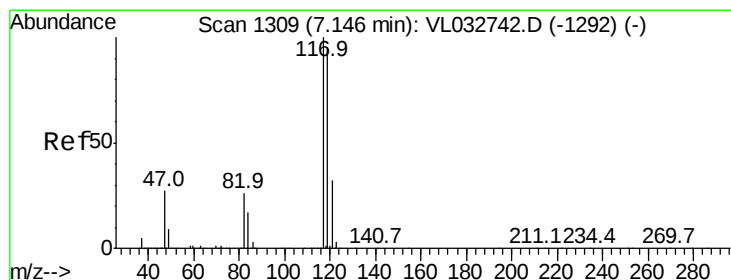
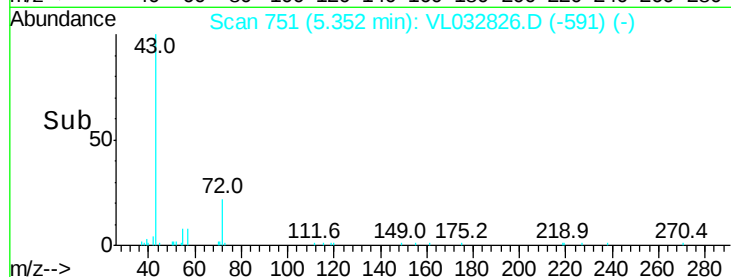
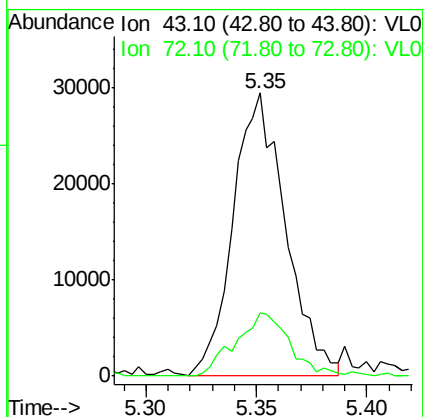
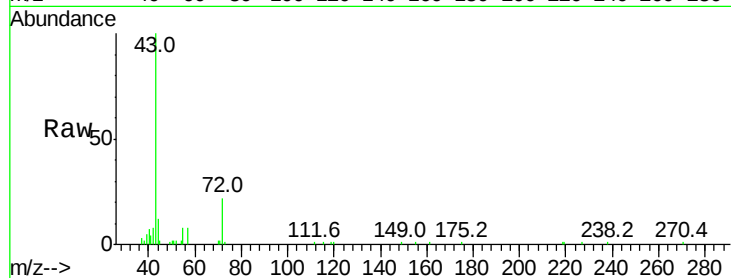




#34
2-Butanone
Concen: 0.280 ppbv
RT: 5.35 min Scan# 751
Delta R.T. 0.01 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

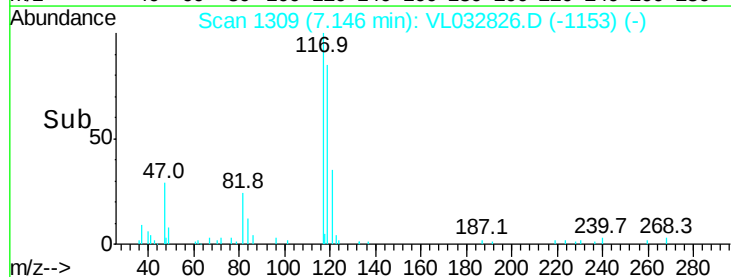
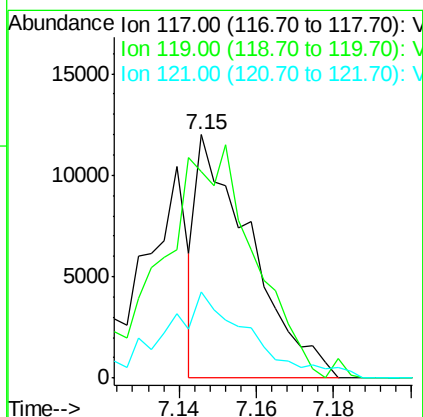
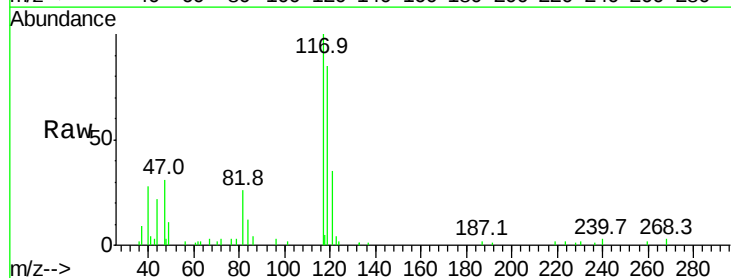
Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01

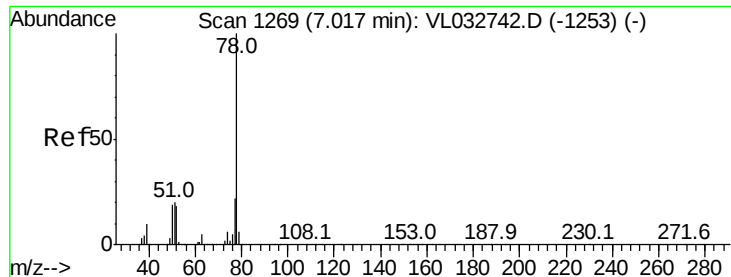
Tgt Ion: 43 Resp: 48683
Ion Ratio Lower Upper
43 100
72 23.5 18.4 27.6



#35
Carbon Tetrachloride
Concen: 0.043 ppbv
RT: 7.15 min Scan# 1309
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Tgt Ion: 117 Resp: 11661
Ion Ratio Lower Upper
117 100
119 76.7 76.1 114.1
121 31.0 25.4 38.0





#36

Benzene

Concen: 0.308 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01

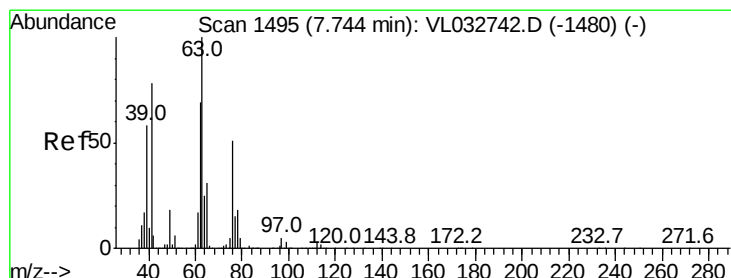
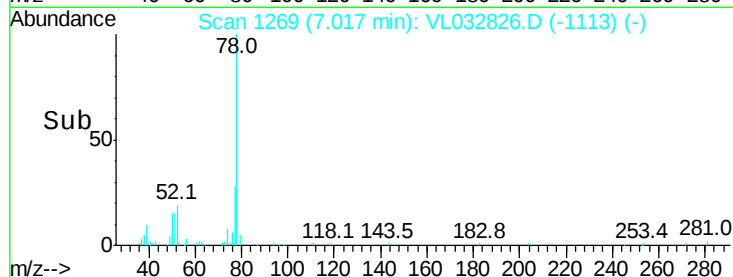
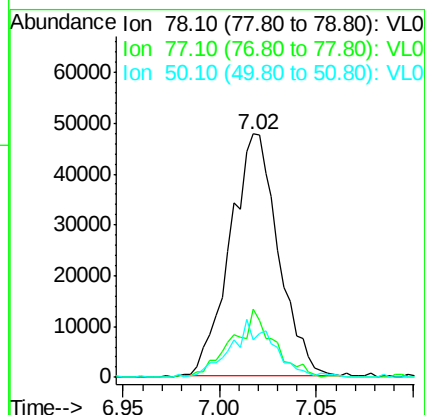
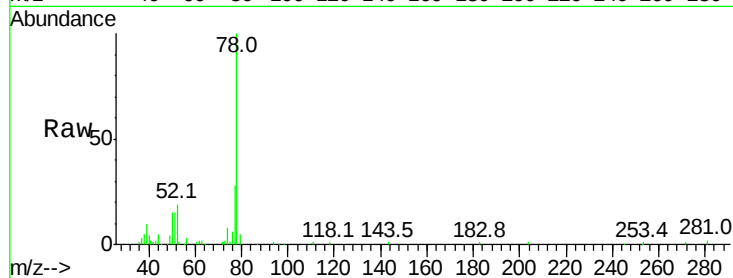
Tgt Ion: 78 Resp: 82182

Ion Ratio Lower Upper

78 100

77 27.8 17.8 26.8#

50 14.9 15.4 23.0#



#39

1,2-Dichloropropane

Concen: 8.122 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.44 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

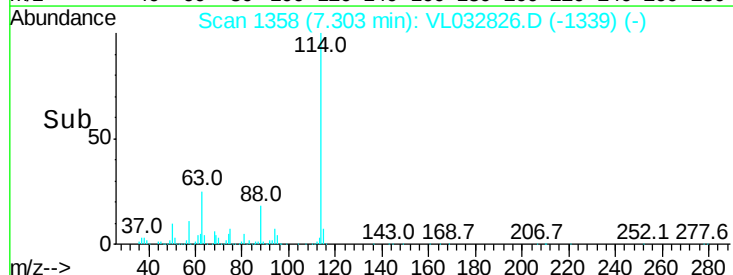
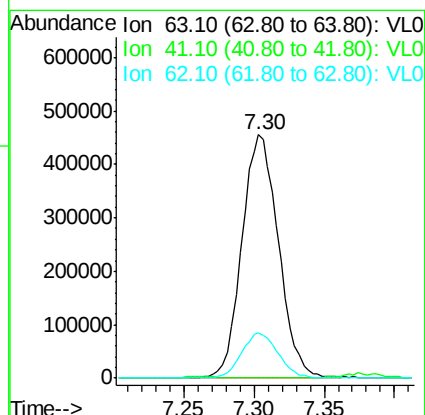
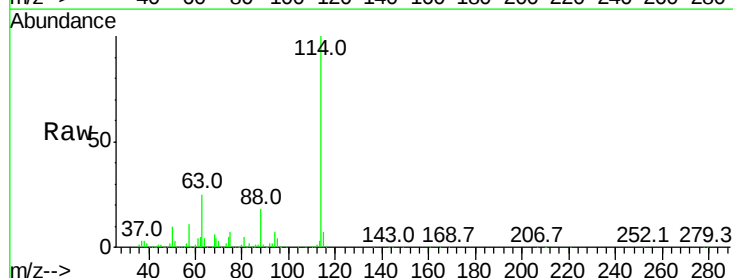
Tgt Ion: 63 Resp: 825891

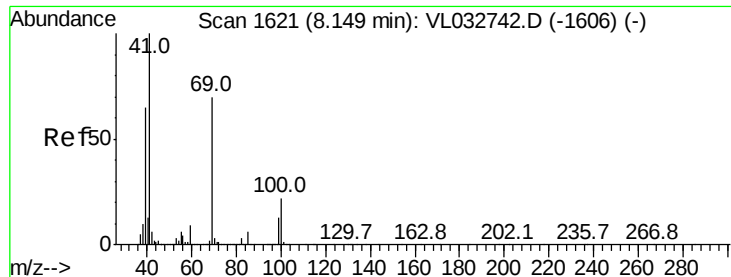
Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

62 18.7 55.4 83.2#





#43

Methyl Methacrylate

Concen: 0.034 ppbv

RT: 8.15 min Scan# 1622

Delta R.T. 0.00 min

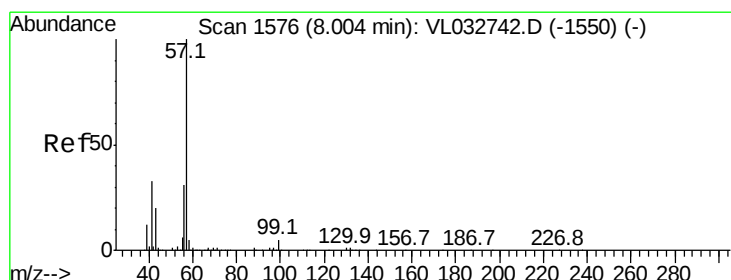
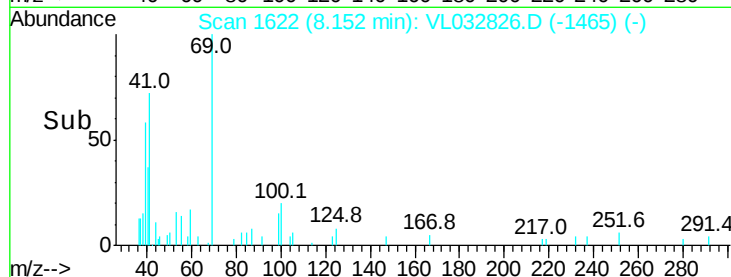
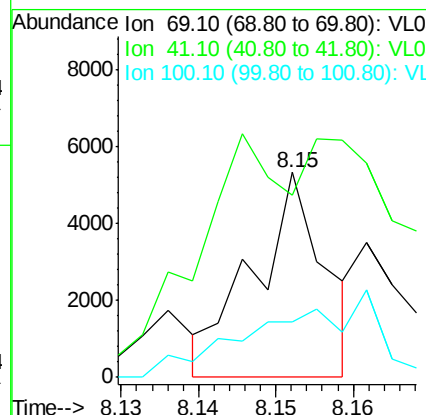
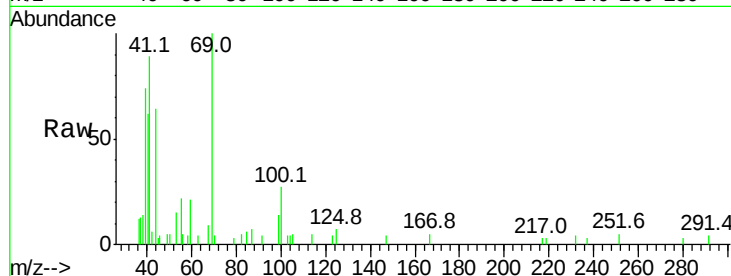
Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01

Tgt Ion: 69 Resp: 3397

Ion	Ratio	Lower	Upper
69	100		
41	433.9	115.0	172.4#
100	0.0	25.4	38.0#



#44

2,2,4-Trimethylpentane

Concen: 0.049 ppbv

RT: 8.01 min Scan# 1577

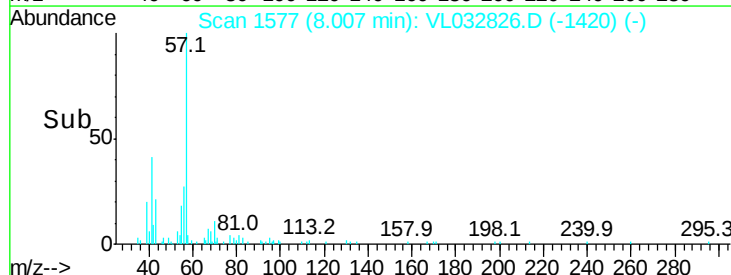
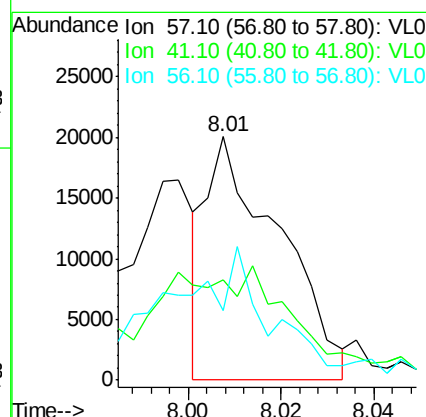
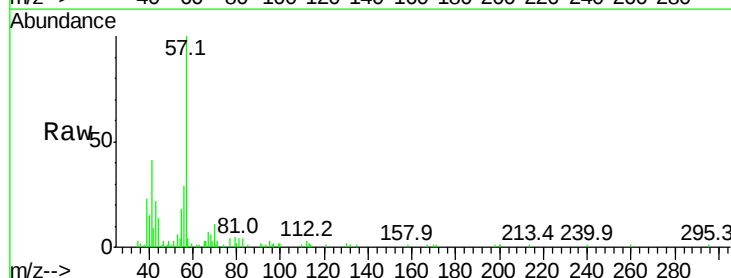
Delta R.T. 0.00 min

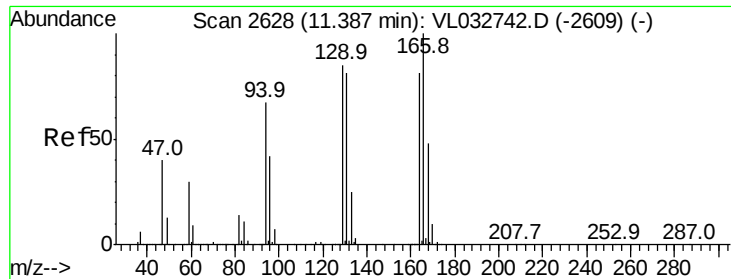
Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Tgt Ion: 57 Resp: 22026

Ion	Ratio	Lower	Upper
57	100		
41	106.1	26.6	39.8#
56	83.5	24.8	37.2#





#52

Tetrachloroethene

Concen: 0.038 ppbv

RT: 11.39 min Scan# 2629

Delta R.T. 0.00 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01

Tgt Ion:164 Resp: 3489

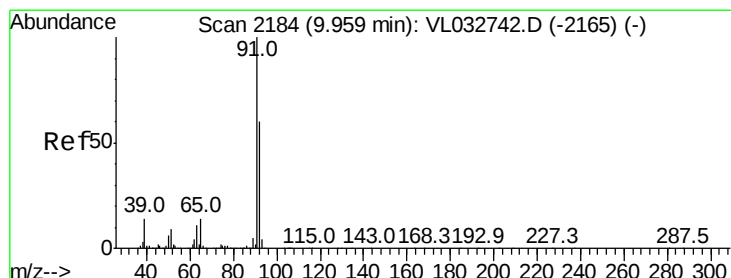
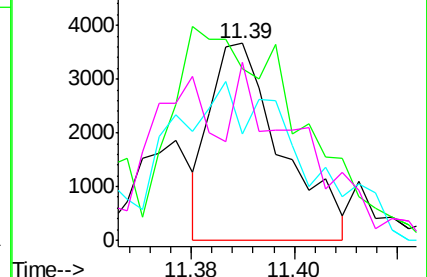
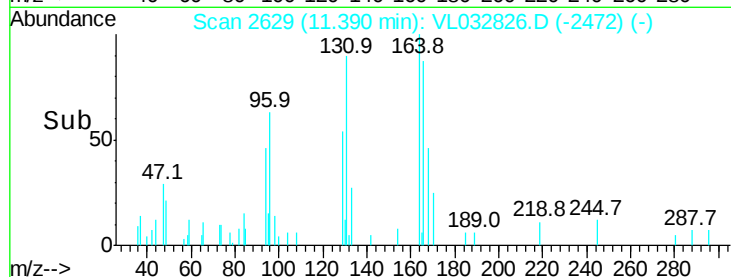
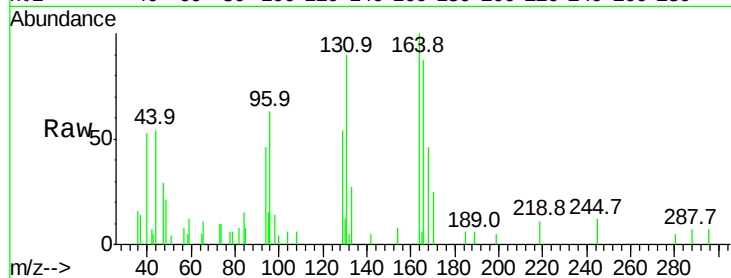
Ion Ratio Lower Upper

164 100

166 52.3 99.3 148.9#

129 36.2 83.9 125.9#

131 63.3 80.8 121.2#



#53

Toluene

Concen: 0.690 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. 0.00 min

Lab File: VL032826.D

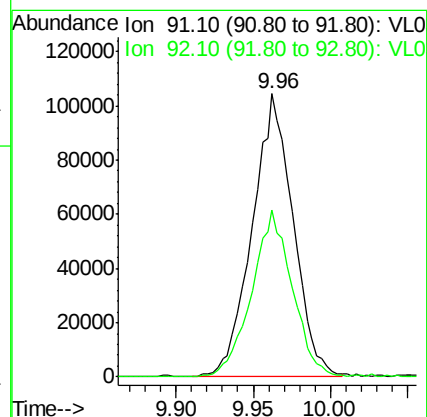
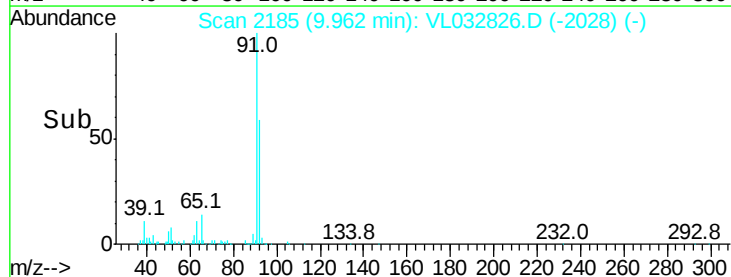
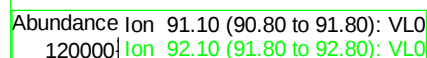
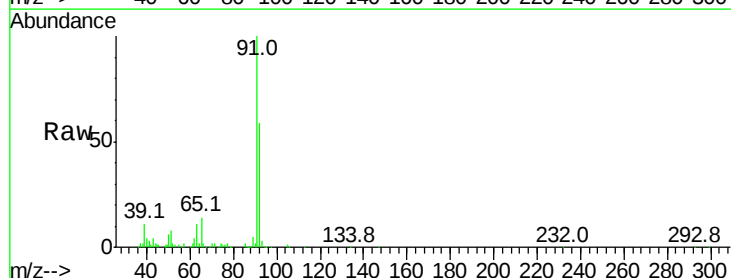
Acq: 28 Nov 2018 11:30

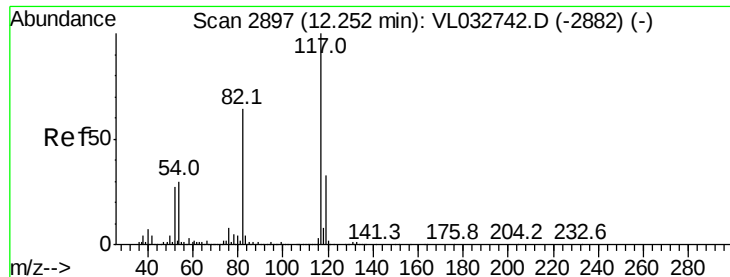
Tgt Ion: 91 Resp: 192174

Ion Ratio Lower Upper

91 100

92 58.4 47.9 71.9

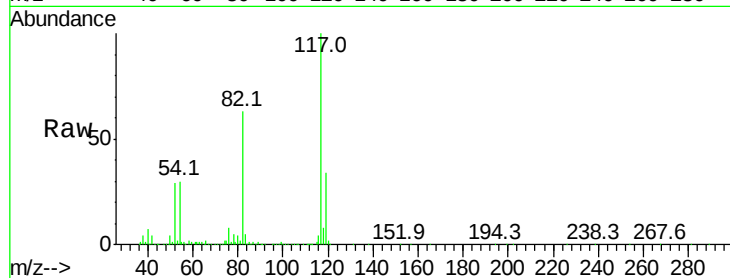




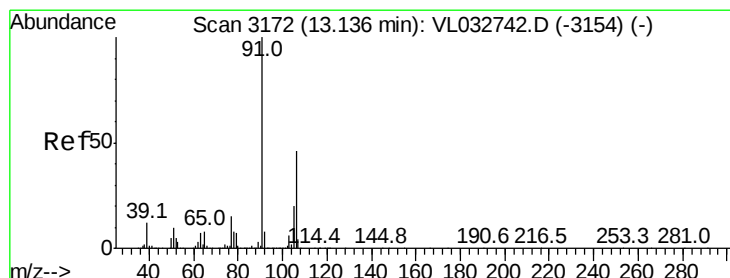
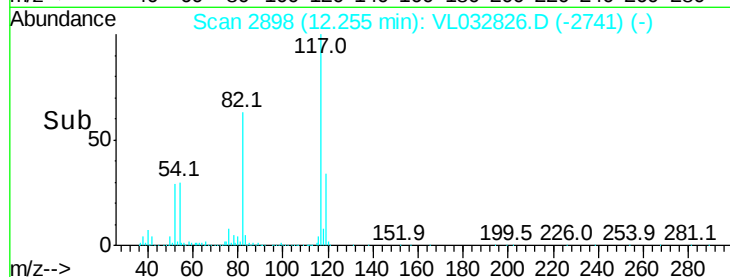
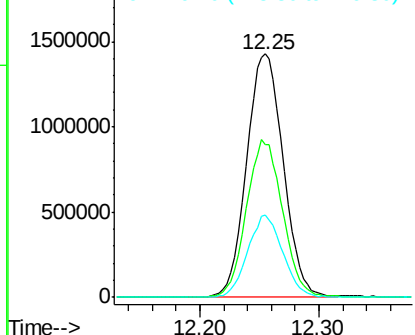
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01

Tgt Ion:117 Resp: 3047112
Ion Ratio Lower Upper
117 100
82 64.3 51.0 76.6
119 32.4 28.0 42.0

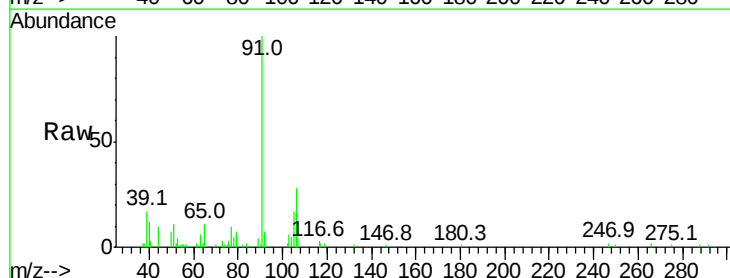


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

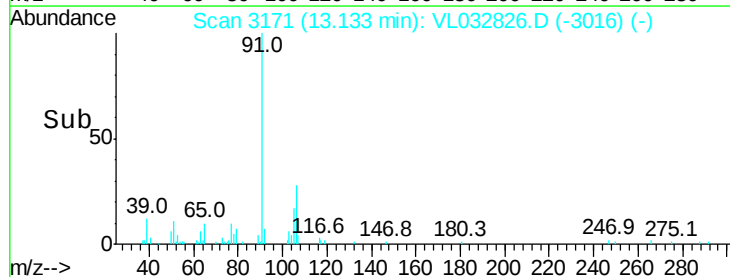
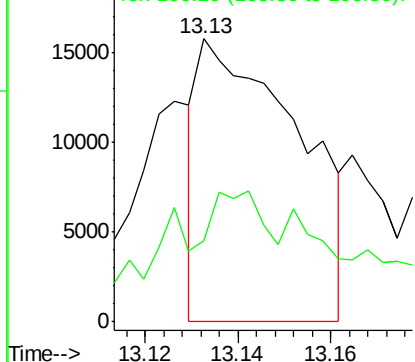


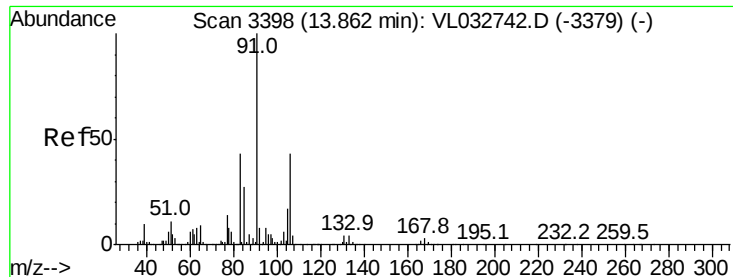
#59
m/p-Xylene
Concen: 0.072 ppbv
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Tgt Ion: 91 Resp: 23581
Ion Ratio Lower Upper
91 100
106 90.6 36.1 54.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

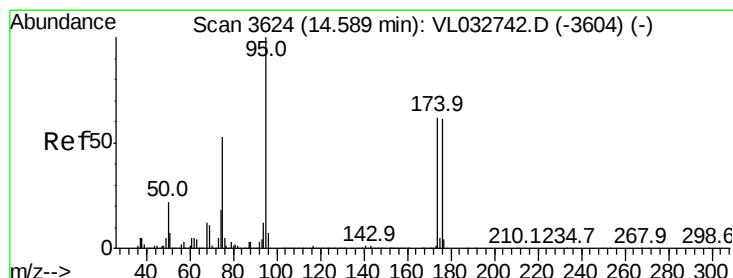
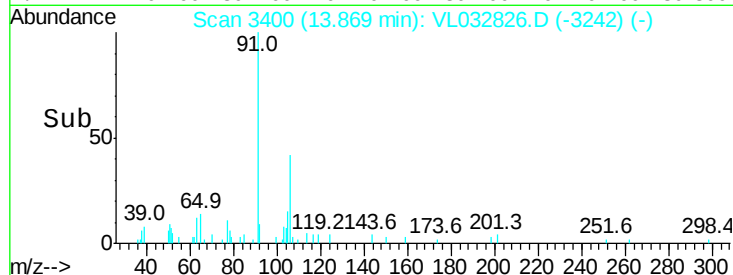
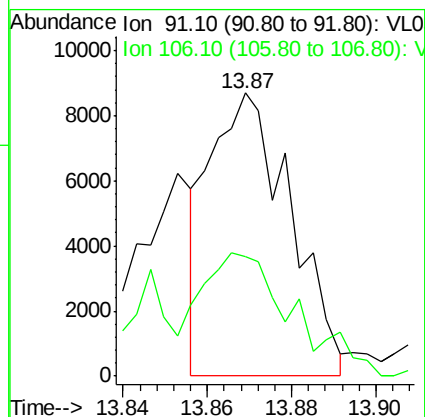
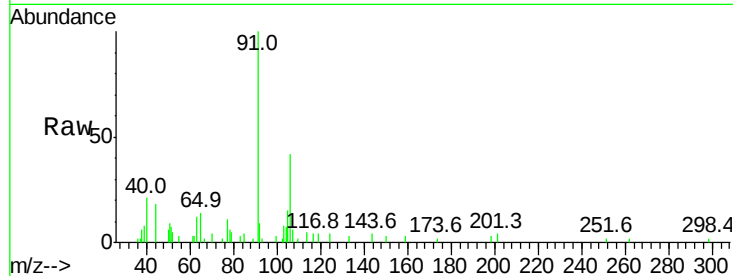




#60
o-Xylene
Concen: 0.035 ppbv
RT: 13.87 min Scan# 3400
Delta R.T. 0.01 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01

Tgt Ion: 91 Resp: 11556
Ion Ratio Lower Upper
91 100
106 67.9 21.9 65.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.821 ppbv
RT: 14.59 min Scan# 3625
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Tgt Ion: 95 Resp: 2238333
Ion Ratio Lower Upper
95 100
174 65.3 50.7 76.1
175 5.0 3.8 5.6

