

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032804.D
 Acq On : 21 Nov 2018 7:51
 Operator : SY/AP
 Sample : J5998-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP-103

Manual Integrations
 APPROVED

MMDadoda
 11/26/2018 9:19:09 AM

Quant Time: Nov 21 21:52:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 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	1334390	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3461190	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3310618	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2371851	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	56339	0.294	ppbv	95
3) Chlorodifluoromethane	3.02	51	36480m	0.345	ppbv	
4) Chloromethane	3.18	50	29977	0.511	ppbv	99
5) Vinyl Chloride	3.30	62	8774	0.141	ppbv	98
9) Propene	3.06	41	46156	1.090	ppbv #	75
11) Trichlorofluoromethane	4.01	101	49788	0.275	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.57	101	14164m	0.096	ppbv	
13) Ethanol	3.73	45	31262229m	2254.483	ppbv	
15) Acetone	3.91	43	1958158	16.069	ppbv	95
19) Isopropyl Alcohol	4.12	45	4185478m	51.558	ppbv	
20) Methylene Chloride	4.42	84	190291	3.016	ppbv	96
26) Hexane	5.79	57	166399	1.316	ppbv #	74
29) Chloroform	5.86	83	55973	0.248	ppbv	87
34) 2-Butanone	5.34	43	123855	0.690	ppbv	98
35) Carbon Tetrachloride	7.14	117	22917m	0.082	ppbv	
36) Benzene	7.01	78	75627	0.274	ppbv #	96
38) Trichloroethene	7.97	130	17862	0.160	ppbv	94
52) Tetrachloroethene	11.38	164	3674m	0.038	ppbv	
53) Toluene	9.95	91	831205	2.891	ppbv	98
59) m/p-Xylene	13.13	91	64301m	0.181	ppbv	
61) Styrene	13.70	104	24706m	0.106	ppbv	

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

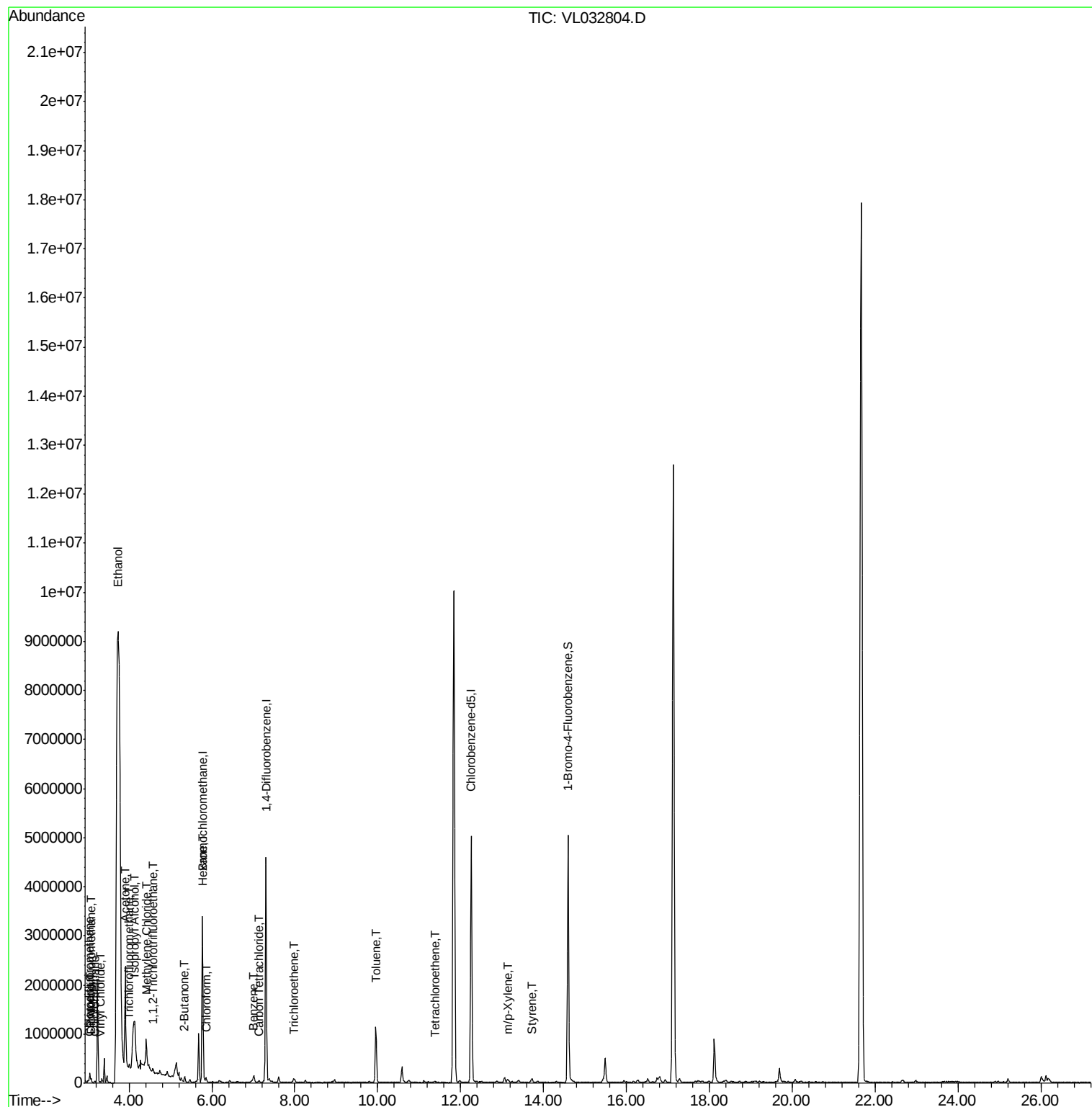
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112018\
Data File : VL032804.D
Acq On : 21 Nov 2018 7:51
Operator : SY/AP
Sample : J5998-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

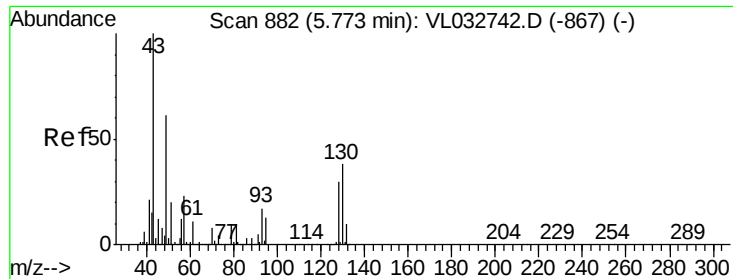
Instrument :
MSVOA_L
ClientSampleId :
EP-103

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Quant Time: Nov 21 21:52:41 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

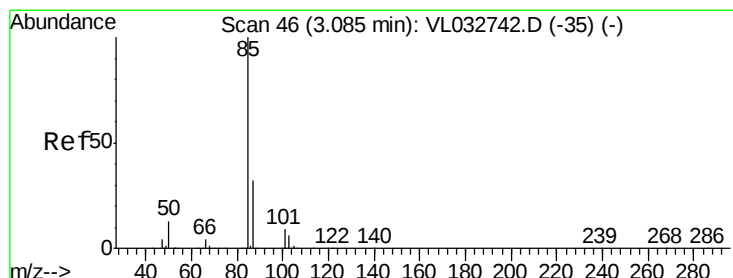
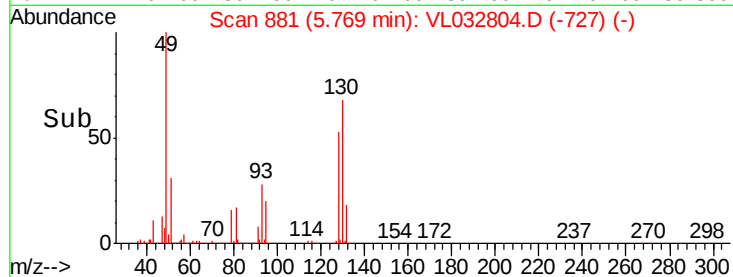
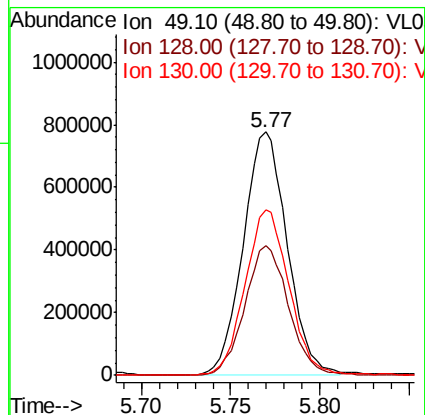
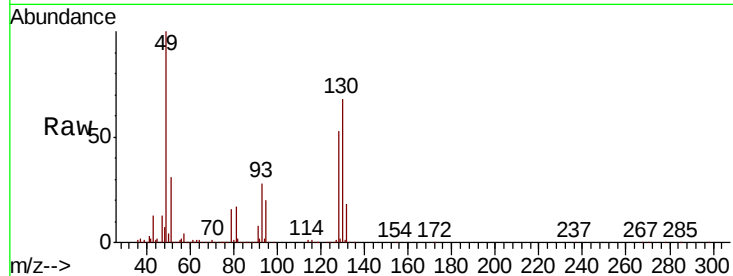
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL032804.D
Acq: 21 Nov 2018 7:51

Instrument :
MSVOA_L
ClientSampled :
EP-103

Tot Ion: 49 Resp: 1334390
Ion Ratio Lower Upper
49 100
128 53.5 24.9 74.6
130 68.8 31.4 94.2

Manual Integrations
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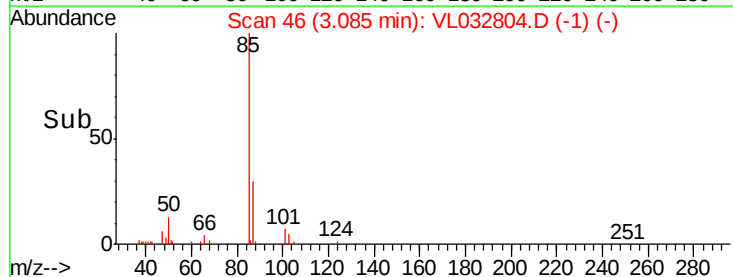
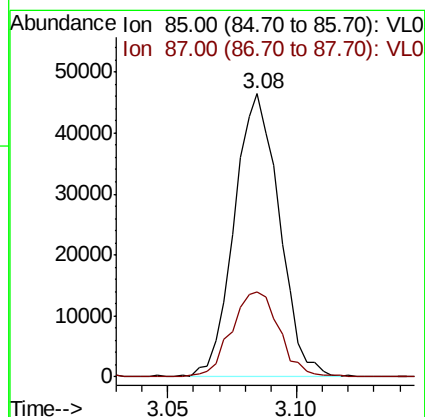
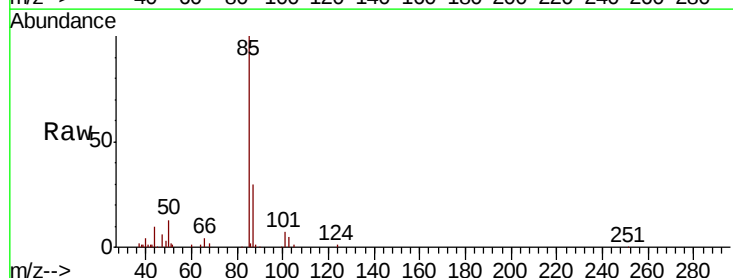
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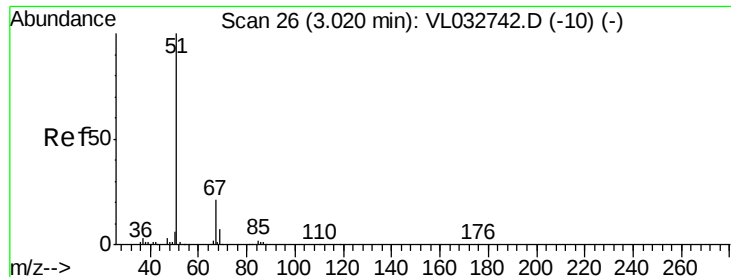


#2

Dichlorodifluoromethane
Concen: 0.294 ppbv
RT: 3.08 min Scan# 46
Delta R.T. -0.00 min
Lab File: VL032804.D
Acq: 21 Nov 2018 7:51

Tgt Ion: 85 Resp: 56339
Ion Ratio Lower Upper
85 100
87 29.6 26.0 39.0





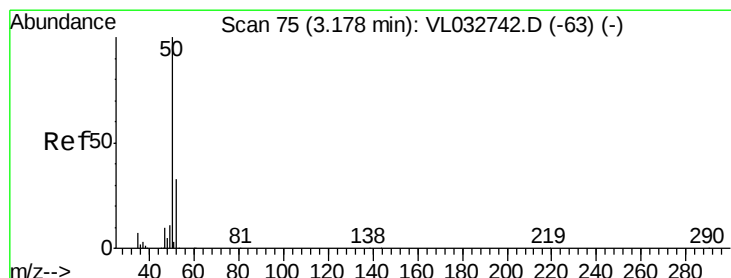
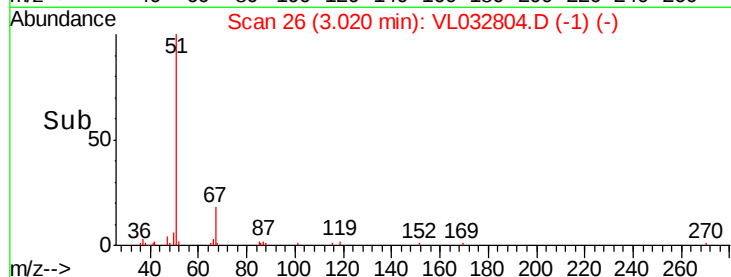
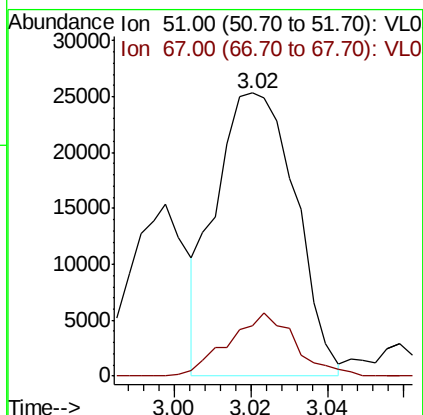
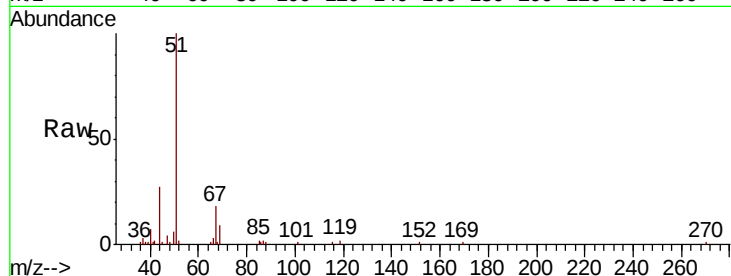
#3
Chlorodifluoromethane
Concen: 0.345 ppbv
RT: 3.02 min Scan# 26
Delta R.T. -0.00 min
Lab File: VL032804.D
Acq: 21 Nov 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
EP-103

Tot Ion	Ratio	Lower	Upper
51	100		
67	18.6	16.1	24.1

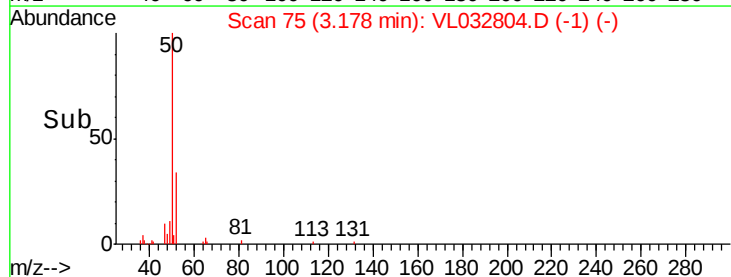
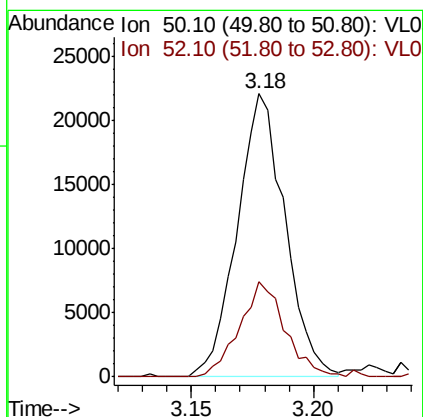
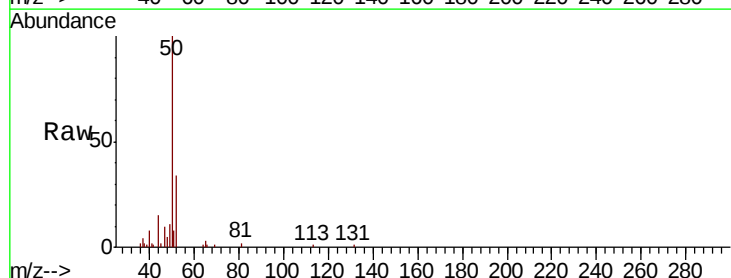
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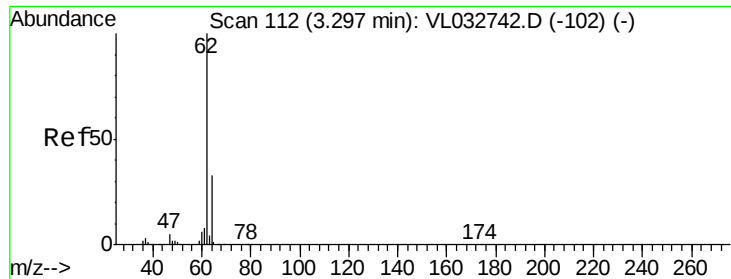
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#4
Chloromethane
Concen: 0.511 ppbv
RT: 3.18 min Scan# 75
Delta R.T. -0.00 min
Lab File: VL032804.D
Acq: 21 Nov 2018 7:51

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.6	26.6	40.0





#5

Vinyl Chloride

Concen: 0.141 ppbv

RT: 3.30 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL032804.D

Acq: 21 Nov 2018 7:51

Instrument :

MSVOA_L

ClientSampled :

EP-103

Tot Ion: 62 Resp: 8774

Ion Ratio Lower Upper

62 100

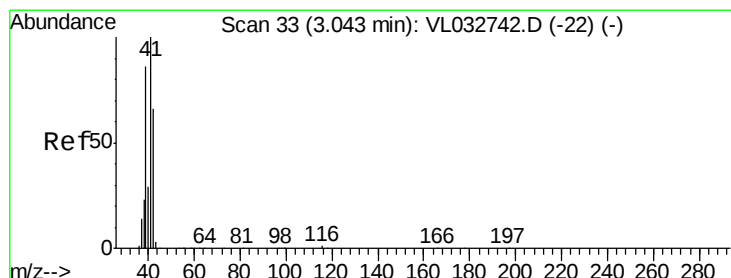
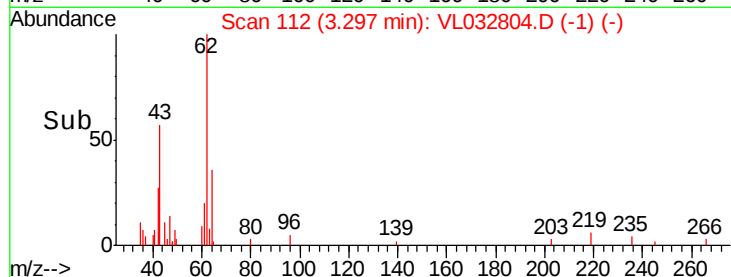
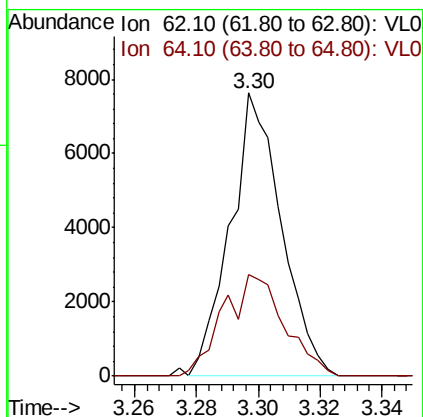
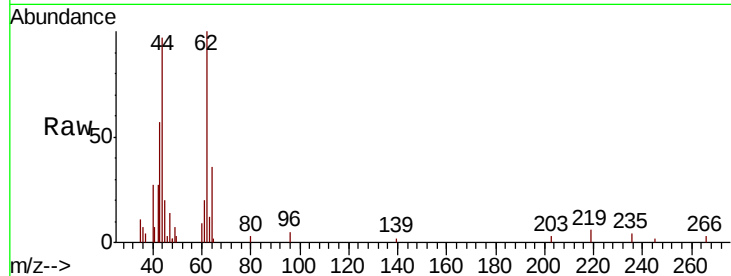
64 34.0 26.2 39.4

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#9

Propene

Concen: 1.090 ppbv

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032804.D

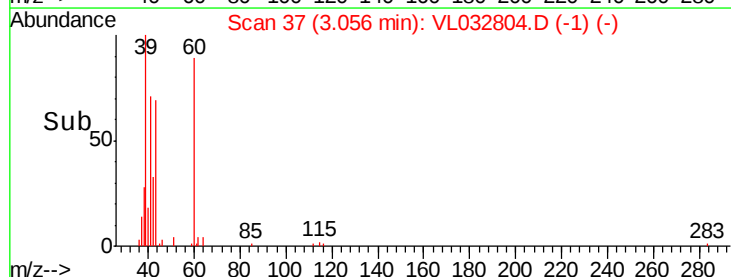
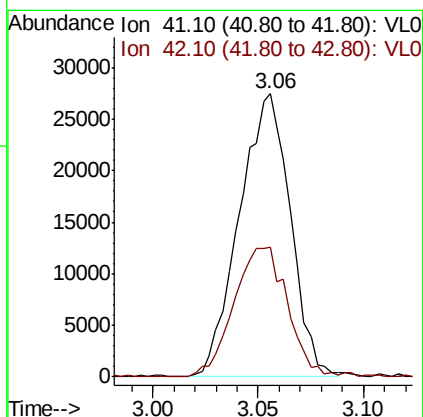
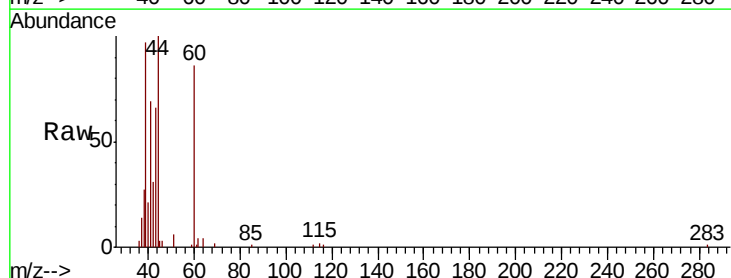
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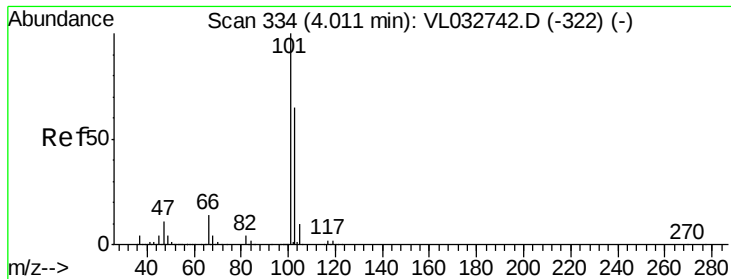
Tgt Ion: 41 Resp: 46156

Ion Ratio Lower Upper

41 100

42 48.7 55.0 82.6#





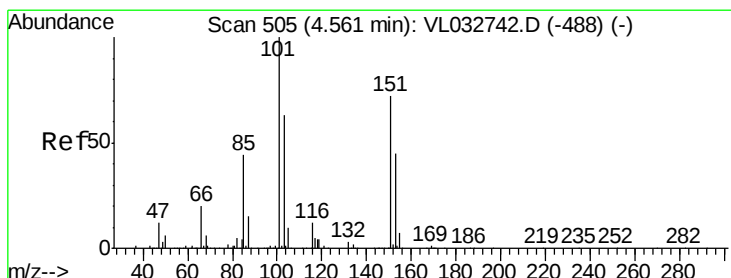
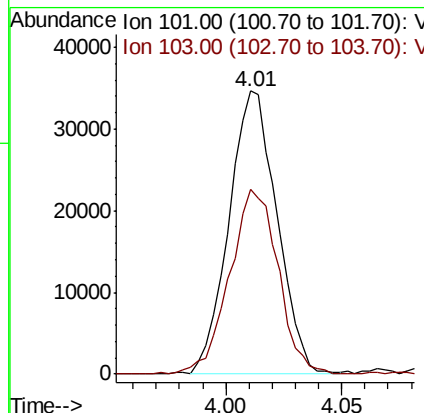
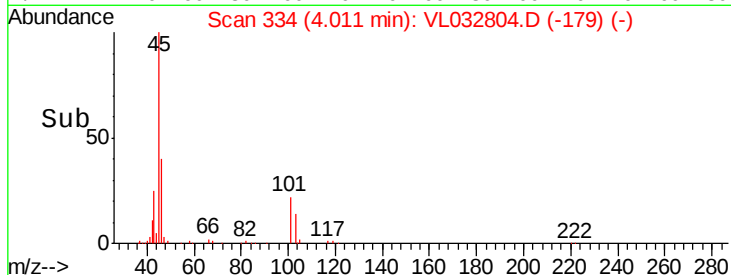
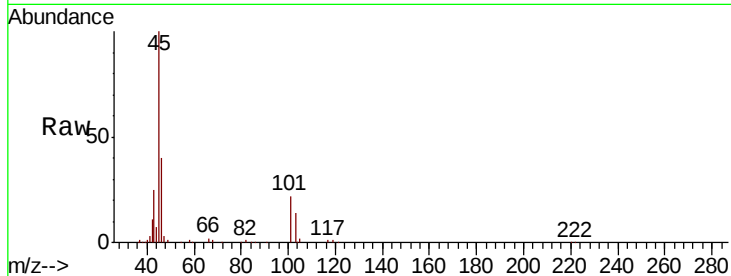
#11
 Trichlorofluoromethane
 Concen: 0.275 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL032804.D
 Acq: 21 Nov 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 EP-103

Tot Ion:101 Resp: 49788
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.6 77.4

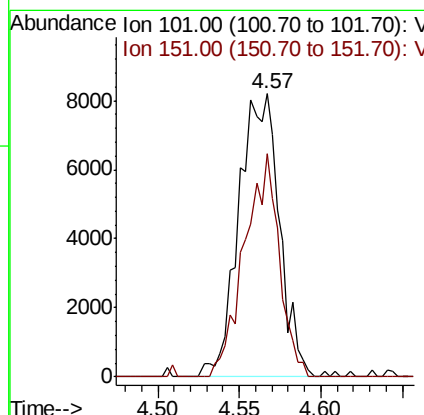
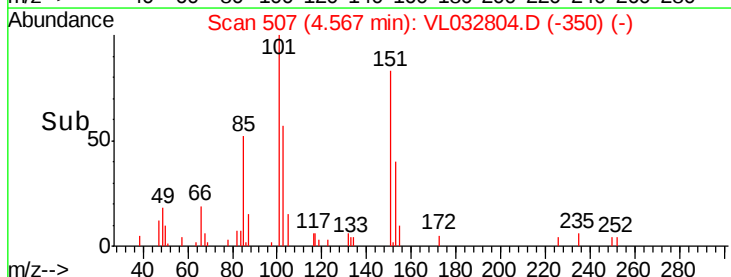
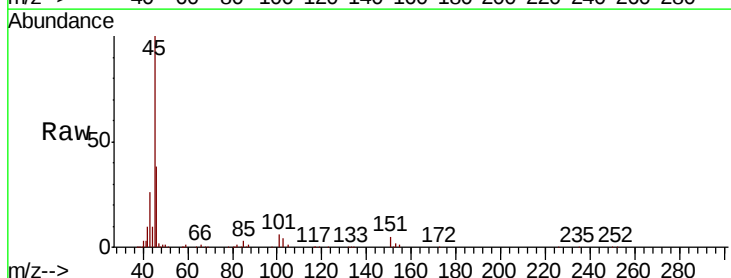
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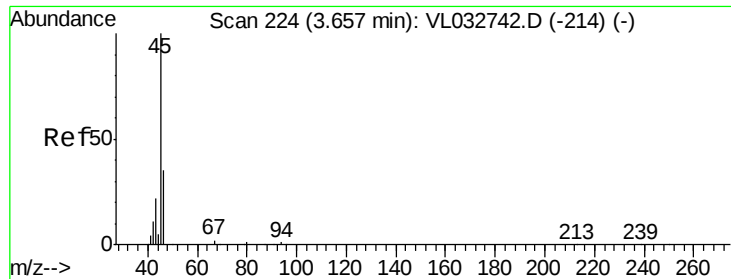
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.096 ppbv m
 RT: 4.57 min Scan# 507
 Delta R.T. 0.01 min
 Lab File: VL032804.D
 Acq: 21 Nov 2018 7:51

Tgt Ion:101 Resp: 14164
 Ion Ratio Lower Upper
 101 100
 151 0.0 56.7 85.1#





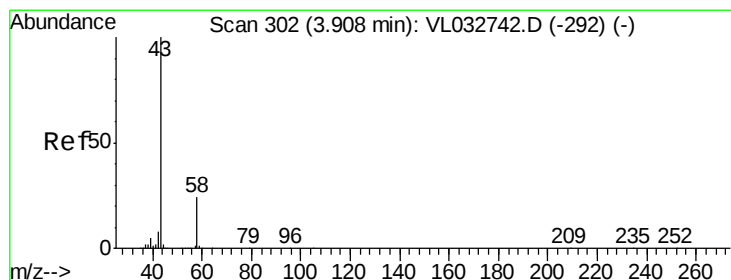
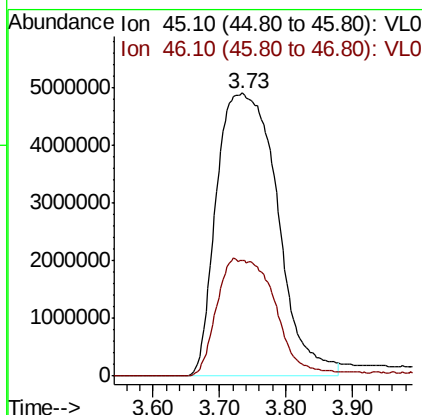
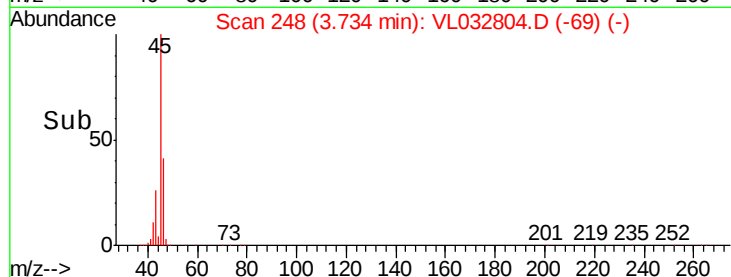
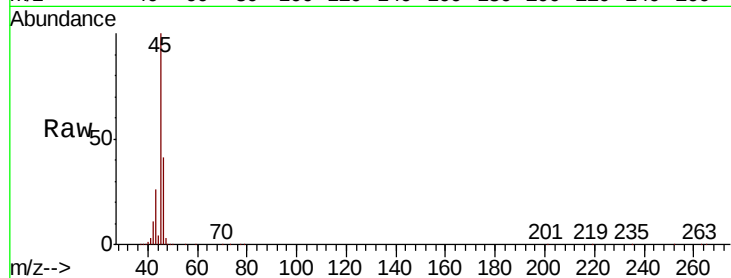
#13
Ethanol
Concen: 2254.483 ppbv m
RT: 3.73 min Scan# 248
Delta R.T. 0.08 min
Lab File: VL032804.D
Acq: 21 Nov 2018 7:51

Instrument :
MSVOA_L
ClientSampled :
EP-103

Tot Ion: 45 Resp: 31262229
Ion Ratio Lower Upper
45 100
46 40.2 14.5 57.9

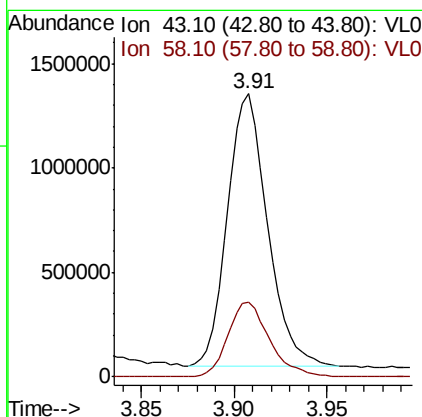
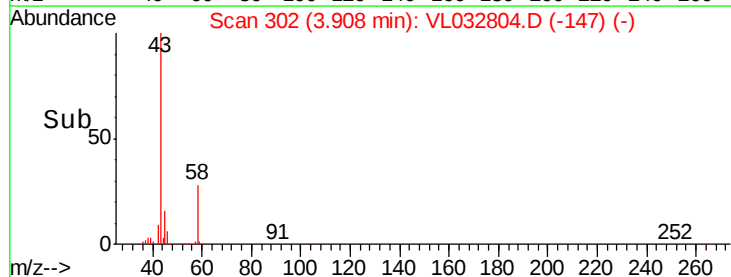
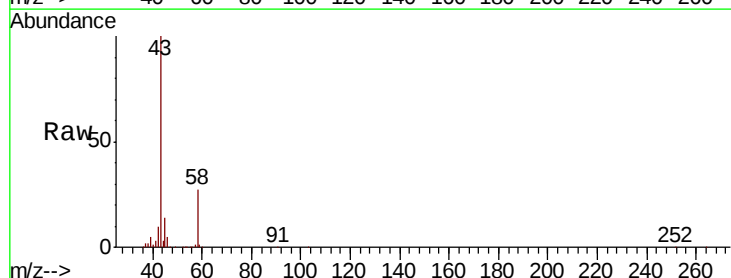
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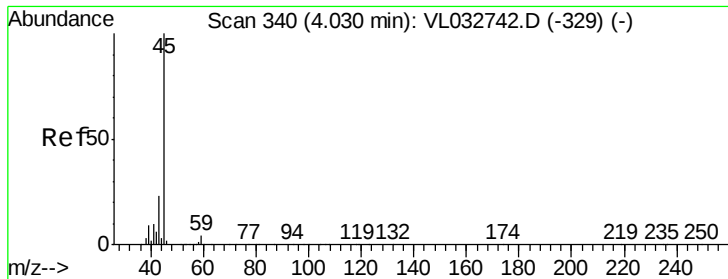
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#15
Acetone
Concen: 16.069 ppbv
RT: 3.91 min Scan# 302
Delta R.T. -0.00 min
Lab File: VL032804.D
Acq: 21 Nov 2018 7:51

Tgt Ion: 43 Resp: 1958158
Ion Ratio Lower Upper
43 100
58 28.9 21.1 31.7





#19

Isopropyl Alcohol

Concen: 51.558 ppbv m

RT: 4.12 min Scan# 368

Delta R.T. 0.09 min

Lab File: VL032804.D

Acq: 21 Nov 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

EP-103

Tot Ion: 45 Resp: 4185478

Ion Ratio Lower Upper

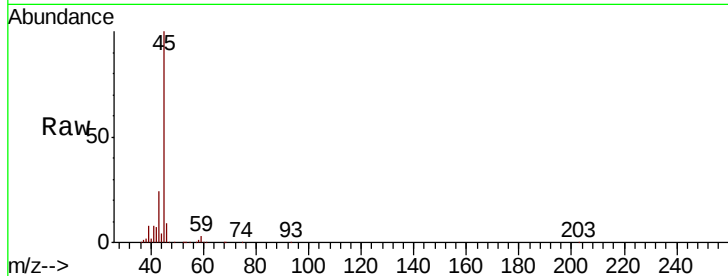
45 100

58 0.6 1.4 2.0#

Manual Integrations
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

800000

600000

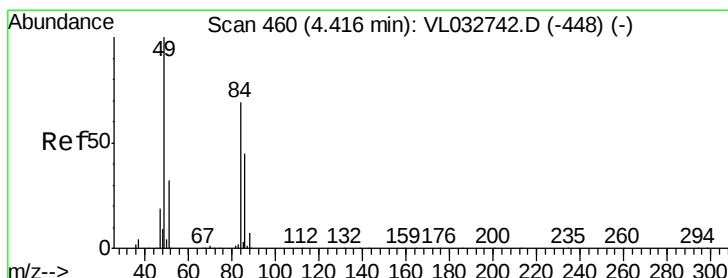
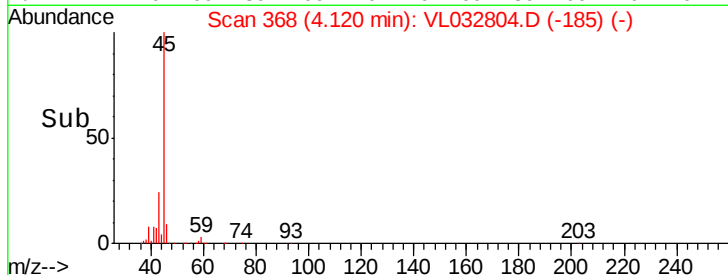
400000

200000

0

4.00 4.10 4.20

Time-->



#20

Methylene Chloride

Concen: 3.016 ppbv

RT: 4.42 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL032804.D

Acq: 21 Nov 2018 7:51

Tgt Ion: 84 Resp: 190291

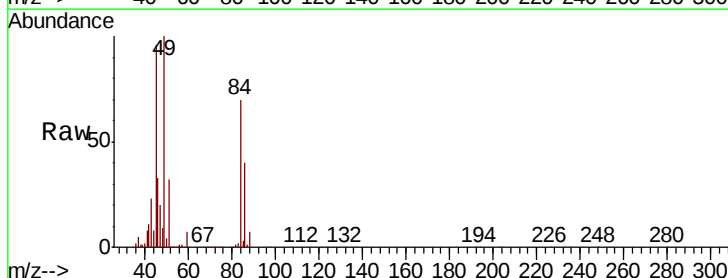
Ion Ratio Lower Upper

84 100

49 141.9 115.8 173.6

51 45.1 36.9 55.3

86 57.4 52.4 78.6



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

250000

200000

150000

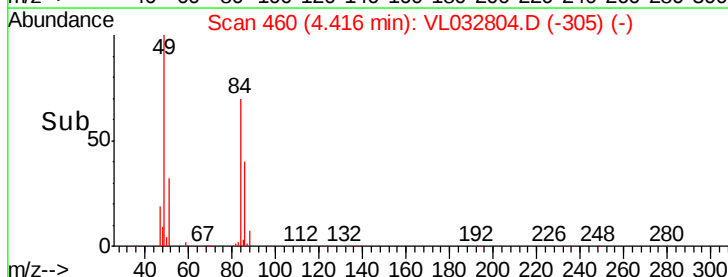
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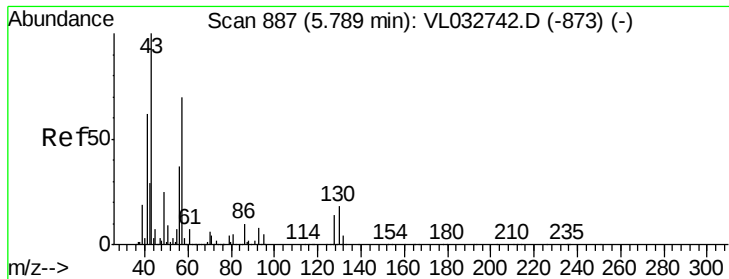
50000

0

4.35 4.40 4.45

Time-->





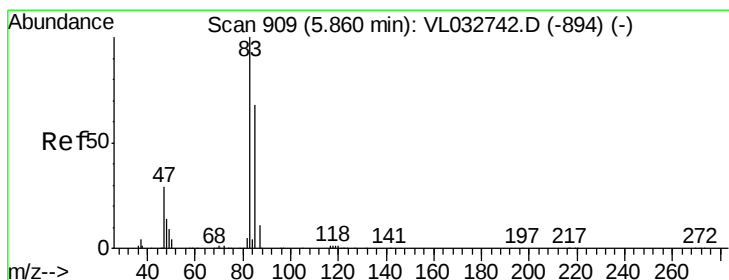
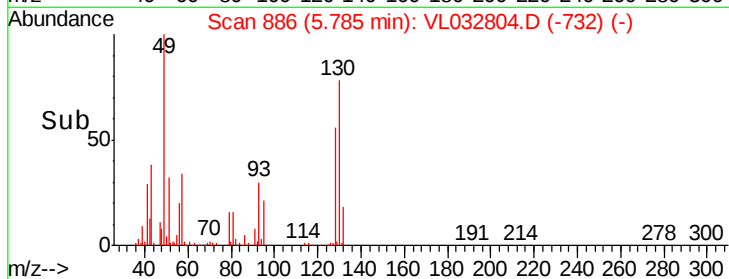
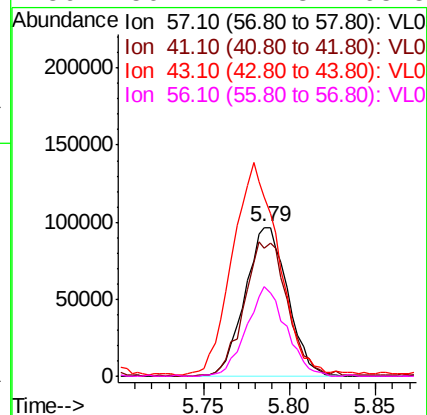
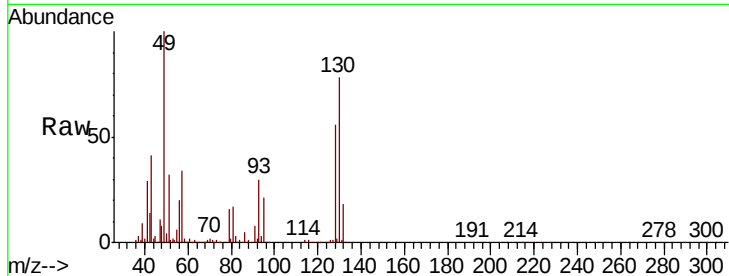
#26
Hexane
Concen: 1.316 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032804.D
Acq: 21 Nov 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
EP-103

Tot Ion	Ratio	Lower	Upper
57	100		
41	91.7	70.3	105.5
43	153.2	174.0	261.0#
56	56.1	42.3	63.5

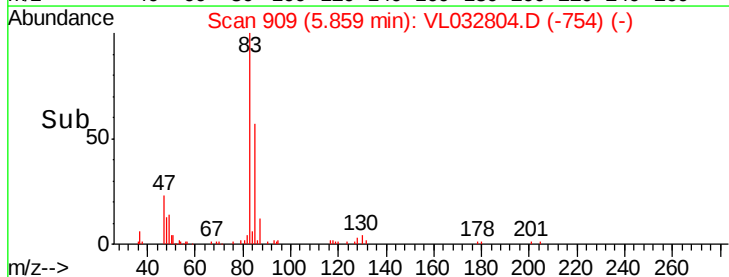
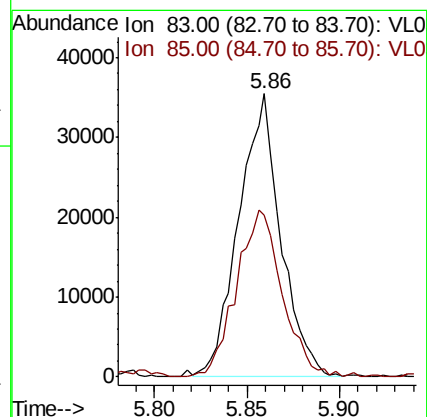
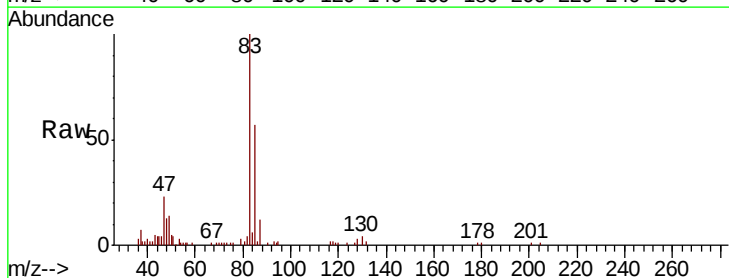
Manual Integrations
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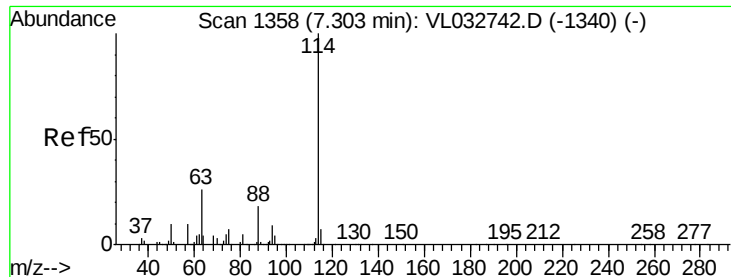
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#29
Chloroform
Concen: 0.248 ppbv
RT: 5.86 min Scan# 909
Delta R.T. -0.00 min
Lab File: VL032804.D
Acq: 21 Nov 2018 7:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	57.1	54.2	81.4





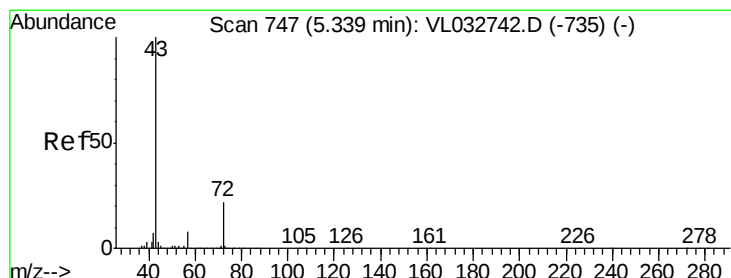
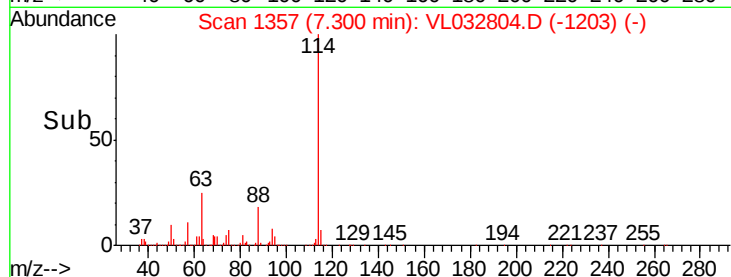
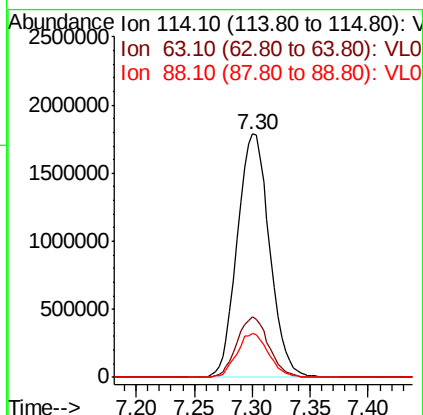
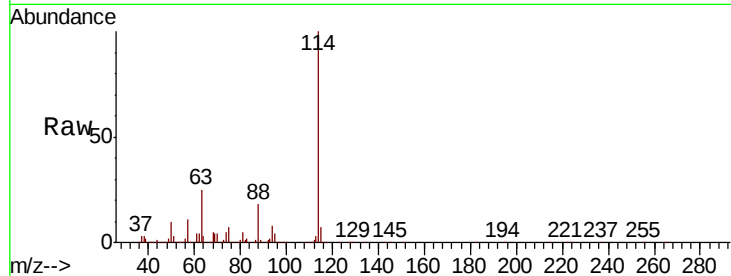
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032804.D
 Acq: 21 Nov 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 EP-103

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.4	20.9	31.3
88	17.7	14.4	21.6

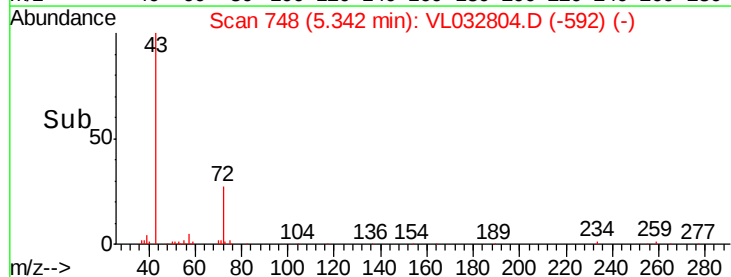
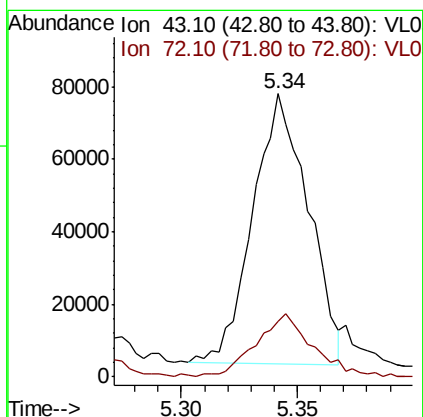
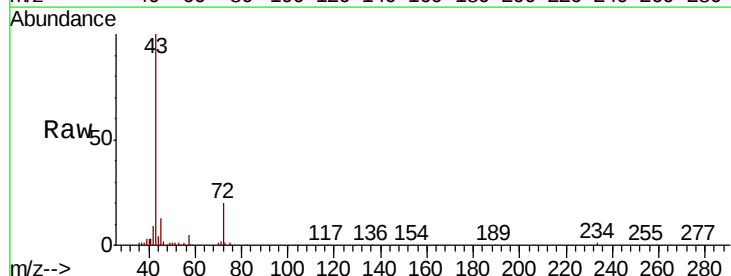
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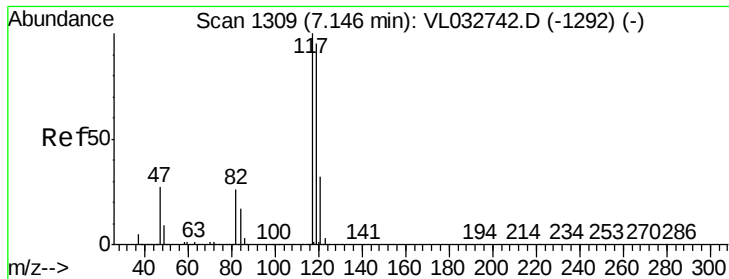
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#34
 2-Butanone
 Concen: 0.690 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.00 min
 Lab File: VL032804.D
 Acq: 21 Nov 2018 7:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.4	27.6





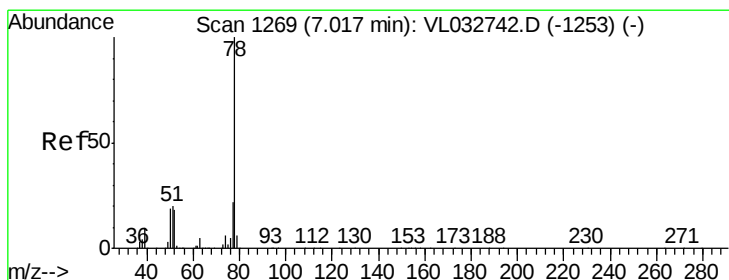
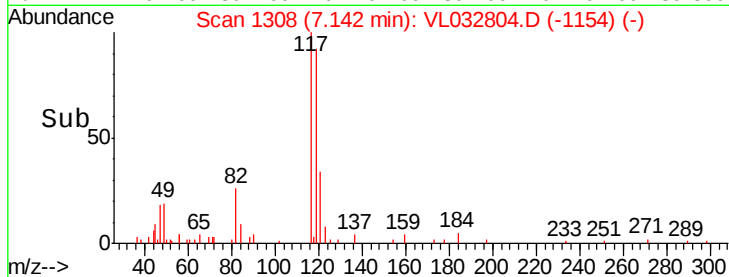
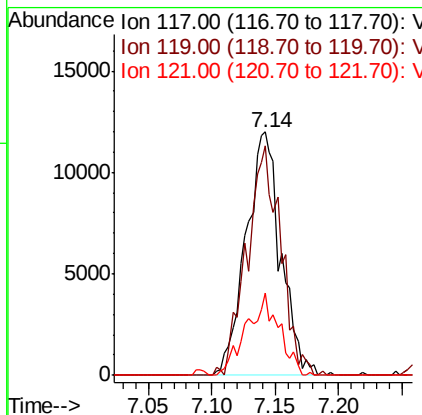
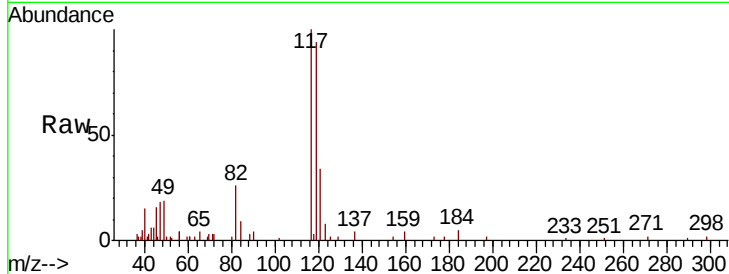
#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 7.14 min Scan# 1308
Delta R.T. -0.00 min
Lab File: VL032804.D
Acq: 21 Nov 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
EP-103

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.4	76.1	114.1
121	33.8	25.4	38.0

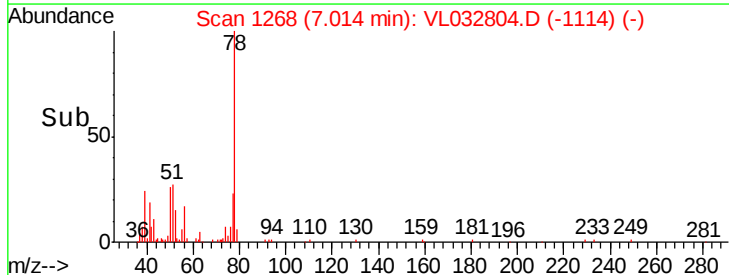
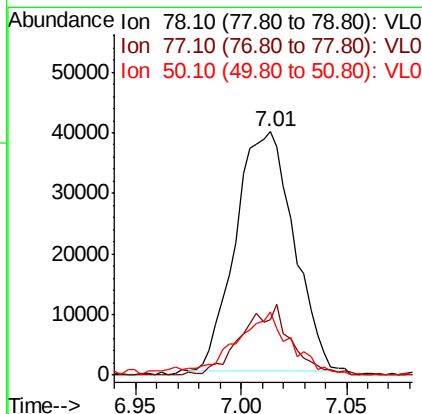
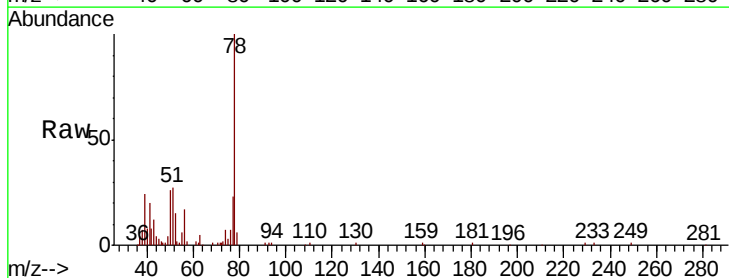
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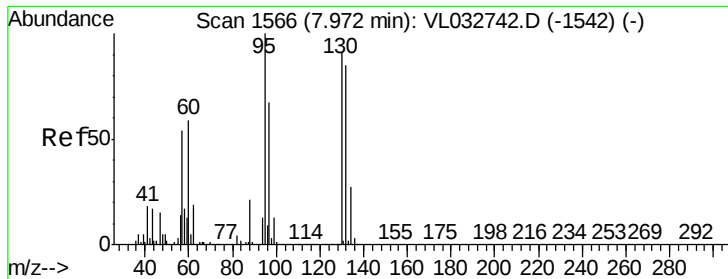
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#36
Benzene
Concen: 0.274 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. -0.00 min
Lab File: VL032804.D
Acq: 21 Nov 2018 7:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.1	17.8	26.8
50	23.1	15.4	23.0





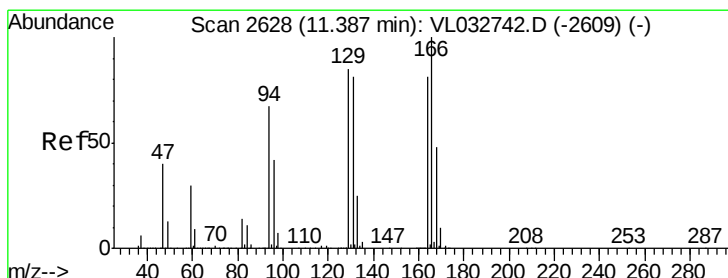
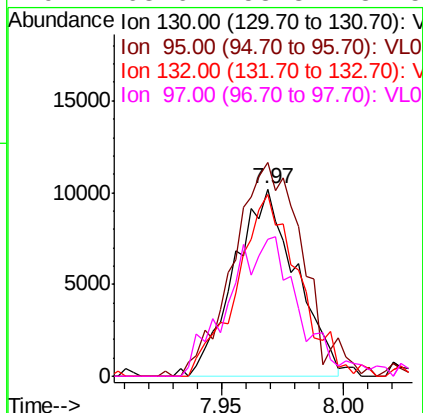
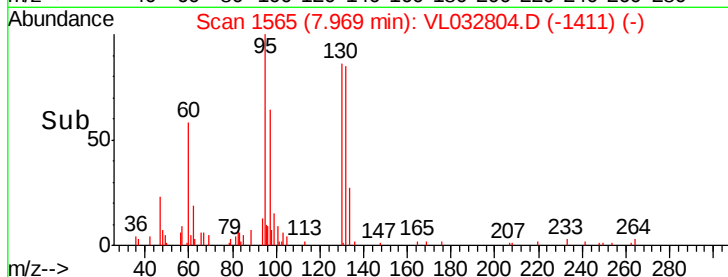
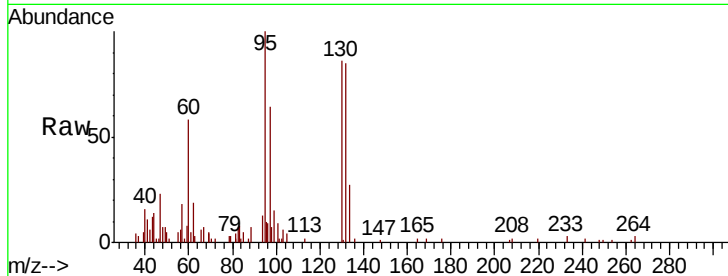
#38
 Trichloroethene
 Concen: 0.160 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VL032804.D
 Acq: 21 Nov 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 EP-103

Tot Ion	Ratio	Lower	Upper
130	100		
95	118.4	87.7	131.5
132	96.8	74.6	111.8
97	68.6	58.3	87.5

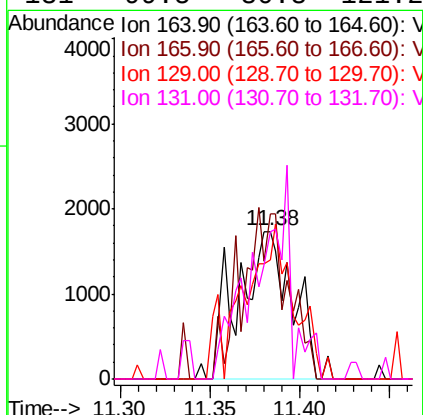
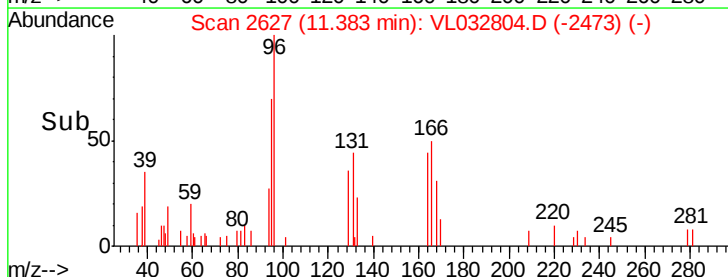
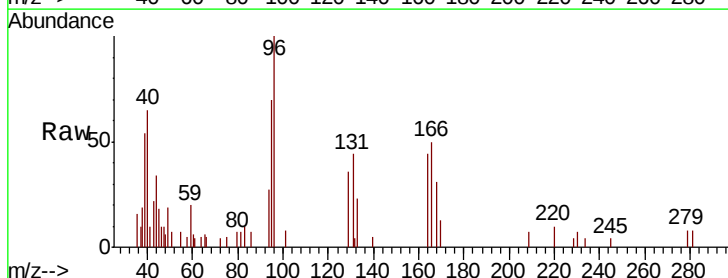
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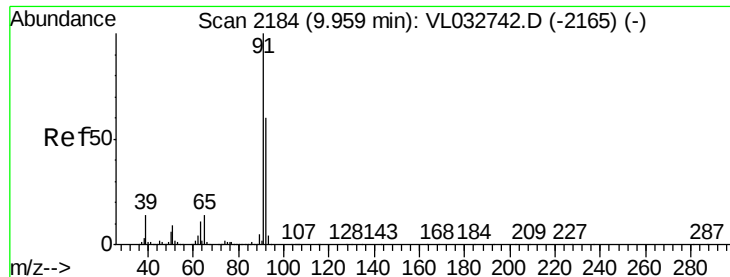
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#52
 Tetrachloroethene
 Concen: 0.038 ppbv m
 RT: 11.38 min Scan# 2627
 Delta R.T. -0.00 min
 Lab File: VL032804.D
 Acq: 21 Nov 2018 7:51

Tgt Ion	Ratio	Lower	Upper
164	100		
166	112.2	99.3	148.9
129	80.6	83.9	125.9
131	99.5	80.8	121.2





#53

Toluene

Concen: 2.891 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032804.D

Acq: 21 Nov 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

EP-103

Tot Ion: 91 Resp: 831205

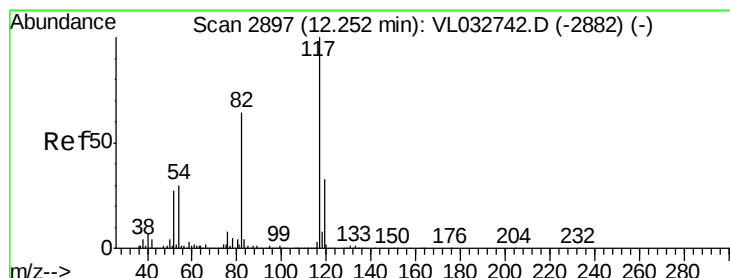
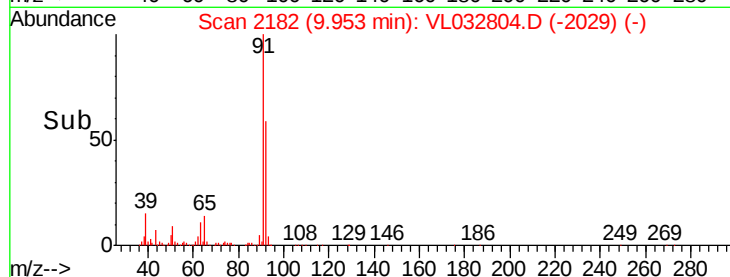
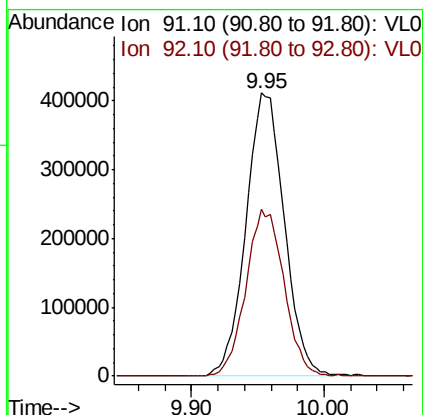
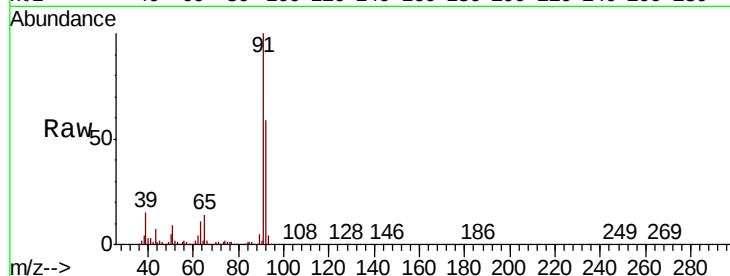
Ion Ratio Lower Upper

91 100

92 58.4 47.9 71.9

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VL032804.D

Acq: 21 Nov 2018 7:51

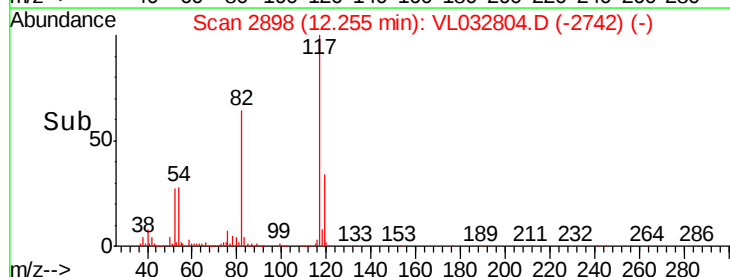
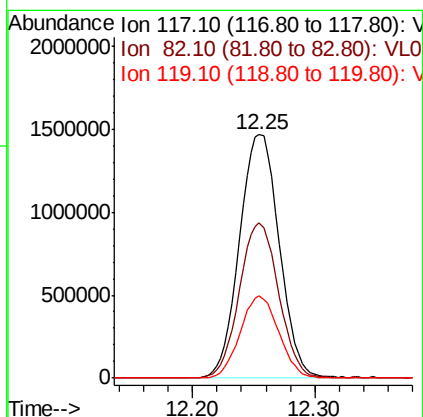
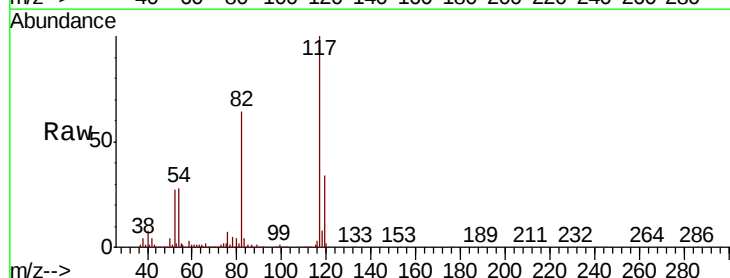
Tgt Ion: 117 Resp: 3310618

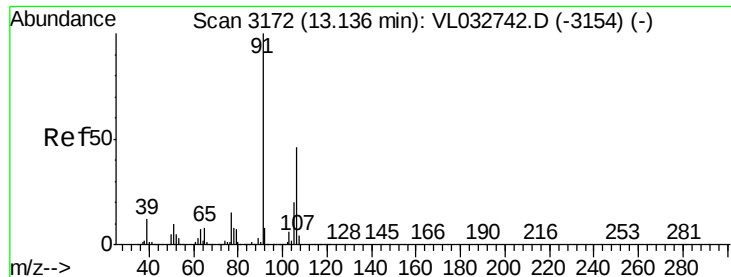
Ion Ratio Lower Upper

117 100

82 63.3 51.0 76.6

119 33.0 28.0 42.0





#59

m/p-Xylene

Concen: 0.181 ppbv m

RT: 13.13 min Scan# 3171

Delta R.T. -0.00 min

Lab File: VL032804.D

Acq: 21 Nov 2018 7:51

Instrument :

MSVOA_L

ClientSampled :

EP-103

Tot Ion: 91 Resp: 64301

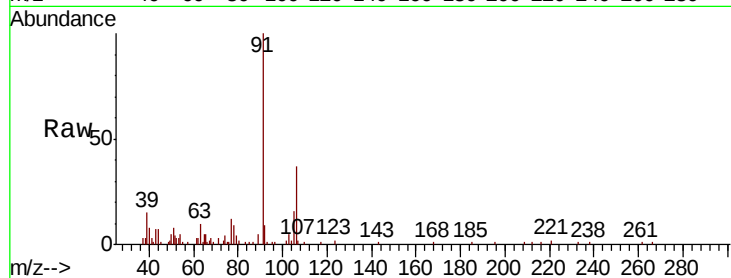
Ion Ratio Lower Upper

91 100

106 46.9 36.1 54.1

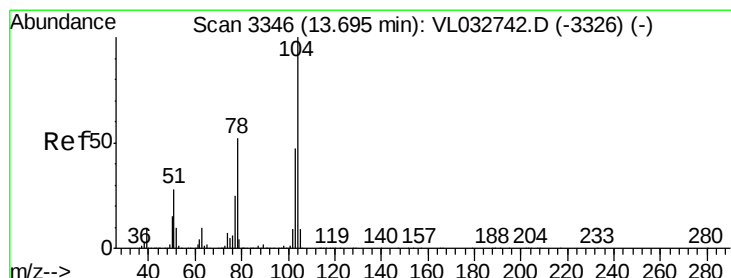
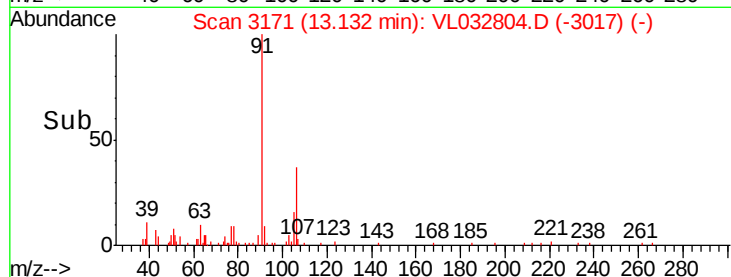
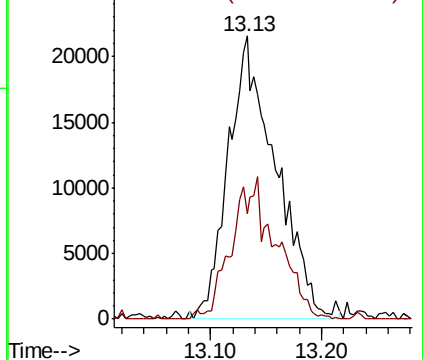
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.106 ppbv m

RT: 13.70 min Scan# 3347

Delta R.T. 0.00 min

Lab File: VL032804.D

Acq: 21 Nov 2018 7:51

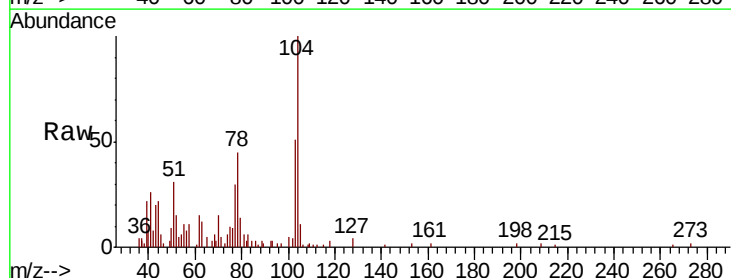
Tgt Ion:104 Resp: 24706

Ion Ratio Lower Upper

104 100

78 59.0 42.2 63.4

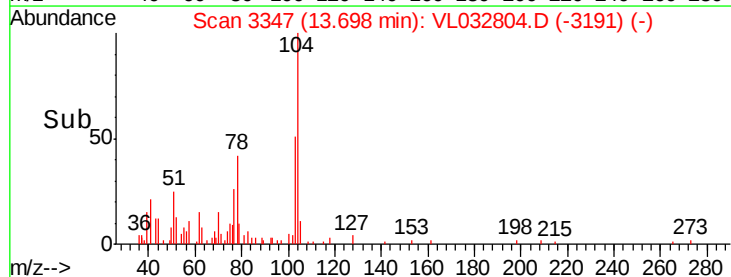
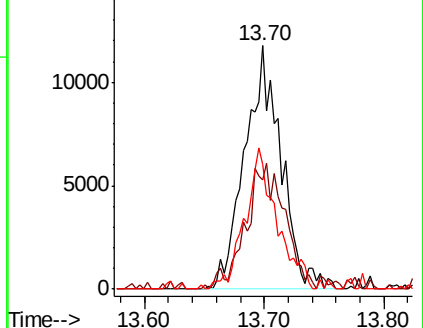
103 51.7 38.2 57.2

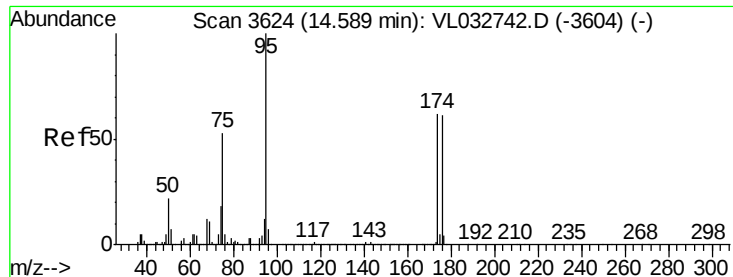


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.579 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. -0.00 min

Lab File: VL032804.D

Acq: 21 Nov 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

EP-103

Tot Ion: 95 Resp: 2371851

Ion Ratio Lower Upper

95 100

174 67.1 50.7 76.1

175 5.0 3.8 5.6

Manual Integrations

APPROVED

MMDadoda

11/26/2018 9:19:09 AM

