

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110718\
 Data File : VL032727.D
 Acq On : 7 Nov 2018 21:39
 Operator : SY/AP
 Sample : J5823-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:30:15 PM

Quant Time: Nov 12 02:55:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1335194	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3340704	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3248090	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2497148	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	38326	0.282	ppbv	99
3) Chlorodifluoromethane	3.02	51	47329m	0.453	ppbv	
4) Chloromethane	3.18	50	27121	0.465	ppbv #	88
9) Propene	3.05	41	191167	4.449	ppbv	93
10) Heptane	8.25	43	70459	0.425	ppbv	97
11) Trichlorofluoromethane	4.01	101	42959	0.242	ppbv	100
13) Ethanol	3.66	45	90039	7.331	ppbv	96
15) Acetone	3.91	43	504883	4.095	ppbv	97
19) Isopropyl Alcohol	4.05	45	52254m	0.595	ppbv	
20) Methylene Chloride	4.42	84	134360	2.147	ppbv	99
26) Hexane	5.79	57	311069	2.317	ppbv #	45
30) Cyclohexane	7.25	84	17465m	0.164	ppbv	
34) 2-Butanone	5.35	43	68613	0.383	ppbv	99
35) Carbon Tetrachloride	7.14	117	21214m	0.089	ppbv	
36) Benzene	7.02	78	582640	2.148	ppbv	97
44) 2,2,4-Trimethylpentane	8.00	57	820396	1.772	ppbv #	92
52) Tetrachloroethene	11.39	164	21695m	0.229	ppbv	
53) Toluene	9.96	91	5258719	16.911	ppbv	99
58) Ethyl Benzene	12.88	91	452458	1.199	ppbv	98
59) m/p-Xylene	13.13	91	1655353	4.926	ppbv	100
60) o-Xylene	13.86	91	612260	1.889	ppbv	97
61) Styrene	13.70	104	37855m	0.174	ppbv	
72) 4-Ethyltoluene	16.01	105	156728	0.454	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.17	105	125012m	0.372	ppbv	
74) 1,2,4-Trimethylbenzene	16.94	105	564324	1.572	ppbv #	77
79) Naphthalene	22.43	128	46115m	0.207	ppbv	

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

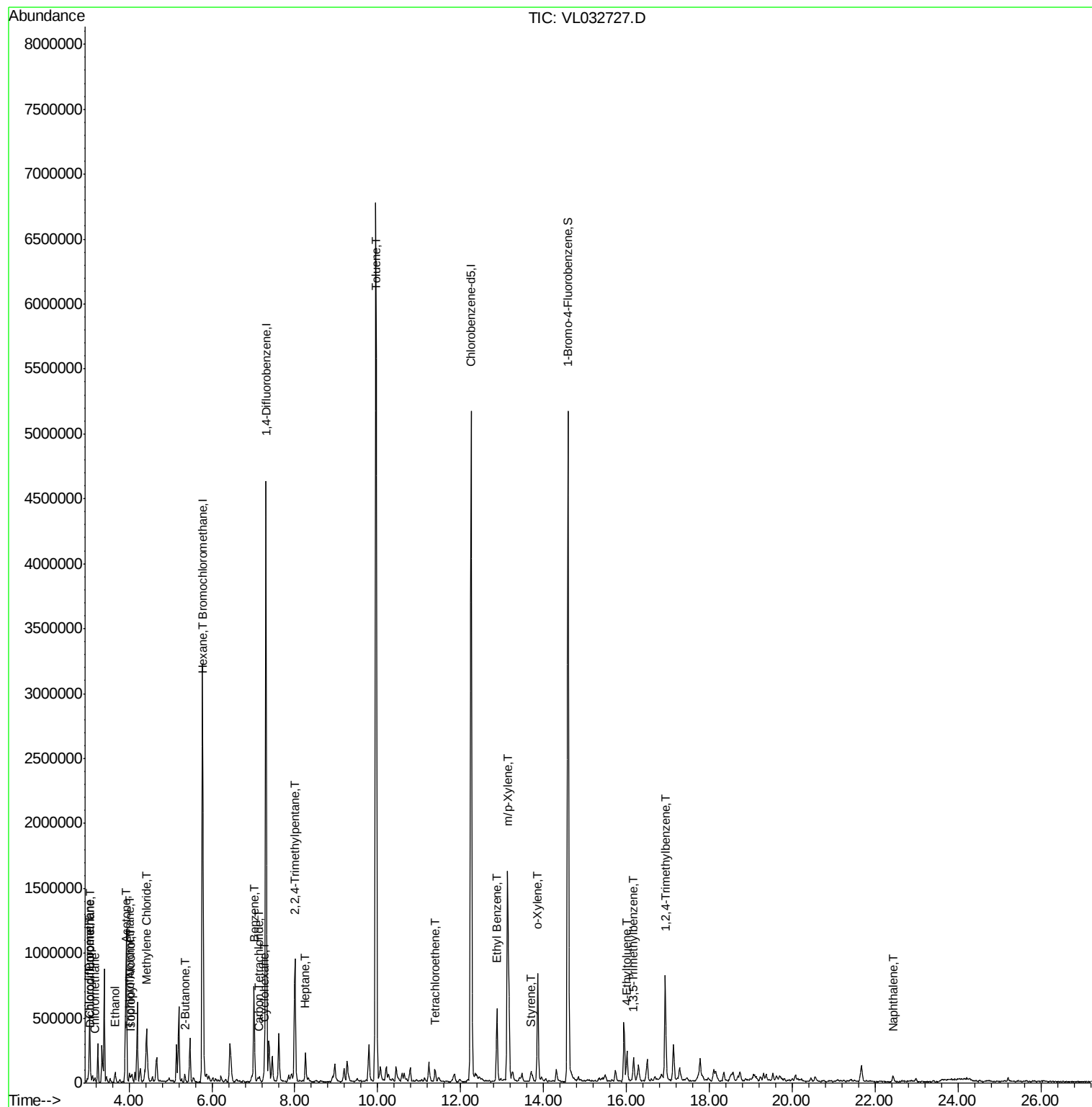
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110718\
Data File : VL032727.D
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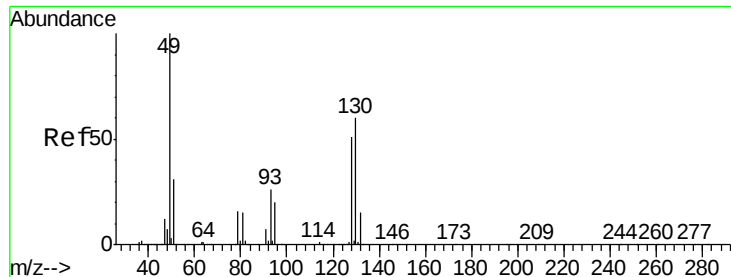
Instrument :
MSVOA_L
ClientSampleId :
SV-02

Manual Integrations
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11/12/2018 12:30:15 PM

Quant Time: Nov 12 02:55:33 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 25 05:15:43 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.01 min

Lab File: VL032727.D

Acq: 7 Nov 2018 21:39

Instrument :

MSVOA_L

ClientSampled :

SV-02

Tot Ion: 49 Resp: 1335194

Ion Ratio Lower Upper

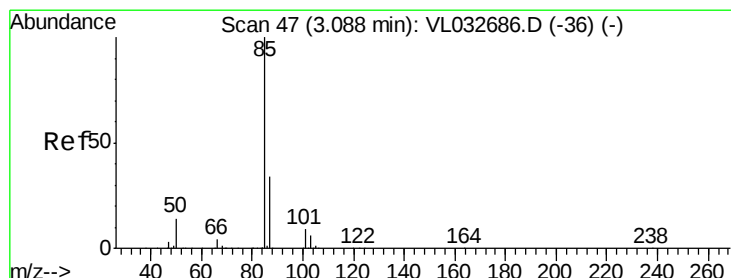
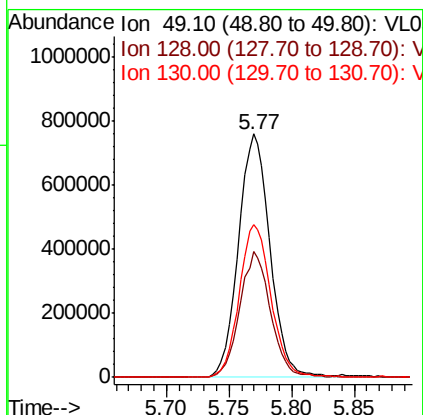
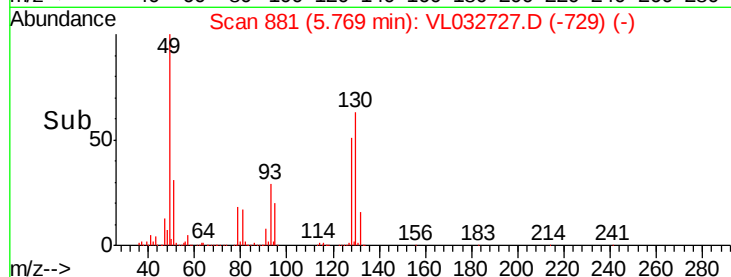
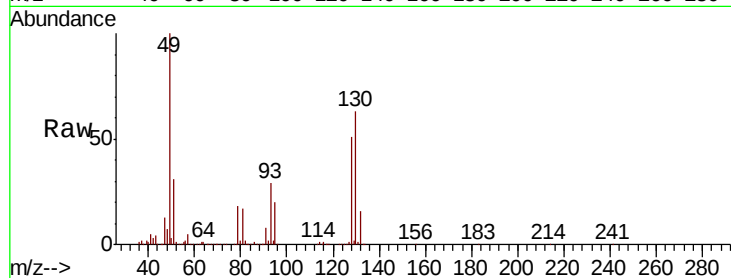
49 100

128 50.7 22.3 66.8

130 63.2 28.4 85.3

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.282 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032727.D

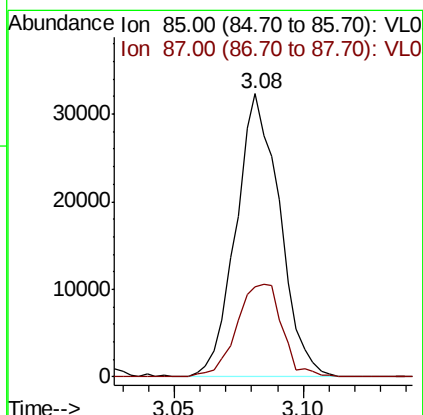
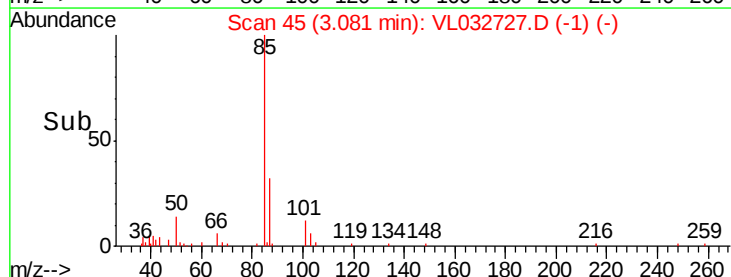
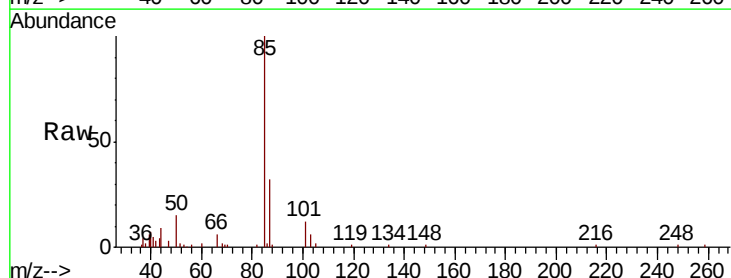
Acq: 7 Nov 2018 21:39

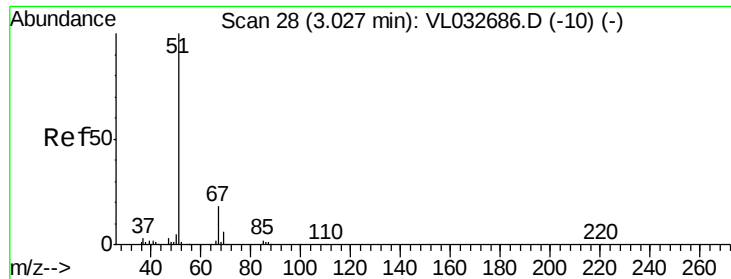
Tgt Ion: 85 Resp: 38326

Ion Ratio Lower Upper

85 100

87 32.0 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.453 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL032727.D

Acq: 7 Nov 2018 21:39

Instrument :

MSVOA_L

ClientSampleId :

SV-02

Tot Ion: 51 Resp: 47329

Ion Ratio Lower Upper

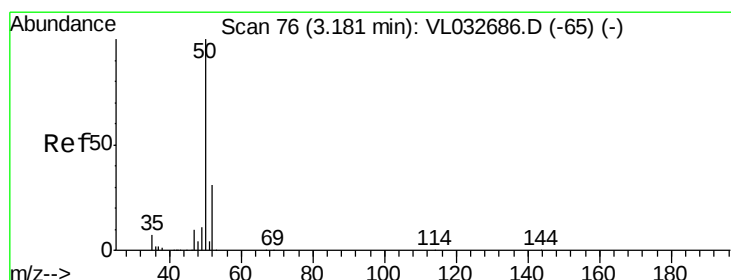
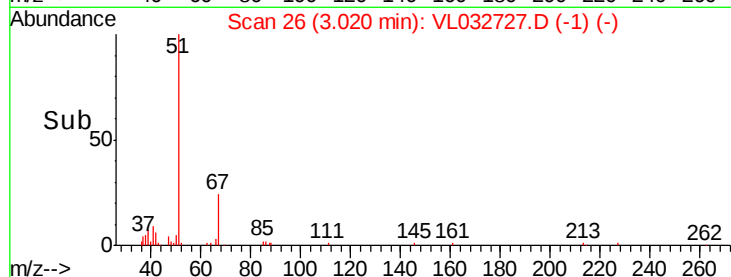
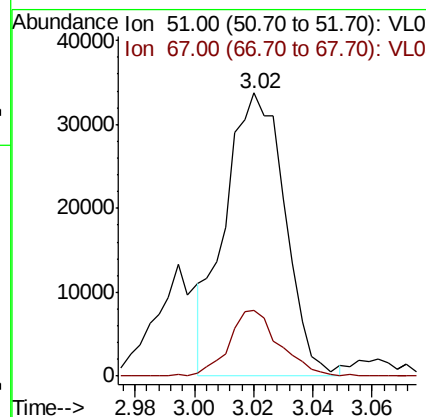
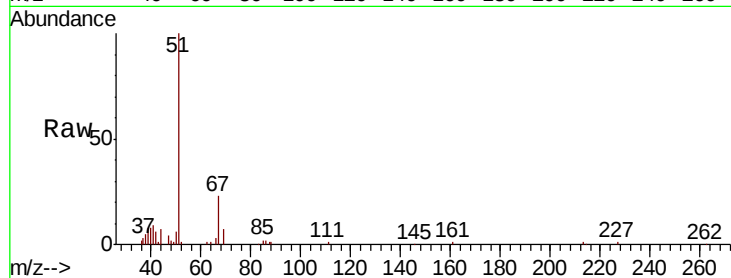
51 100

67 19.5 15.2 22.8

Manual Integrations
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#4

Chloromethane

Concen: 0.465 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032727.D

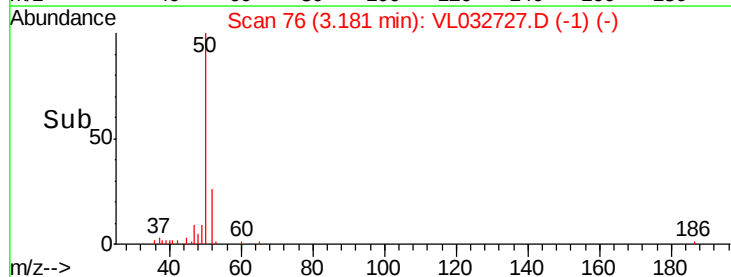
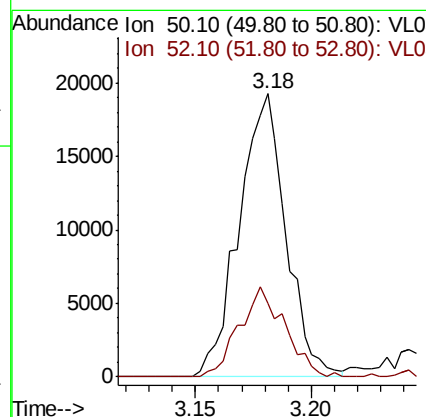
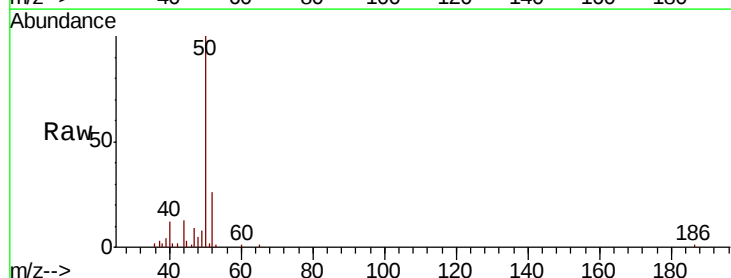
Acq: 7 Nov 2018 21:39

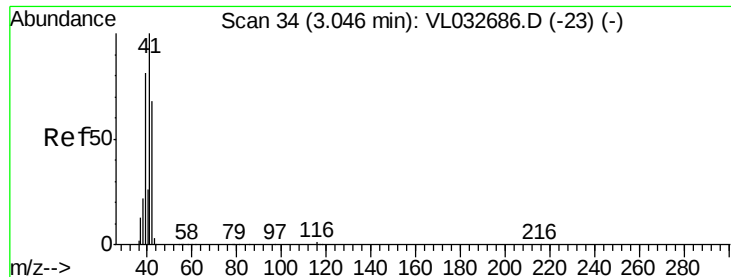
Tgt Ion: 50 Resp: 27121

Ion Ratio Lower Upper

50 100

52 25.8 25.9 38.9#





#9

Propene

Concen: 4.449 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032727.D

Acq: 7 Nov 2018 21:39

Instrument :

MSVOA_L

ClientSampled :

SV-02

Tot Ion: 41 Resp: 191167

Ion Ratio Lower Upper

41 100

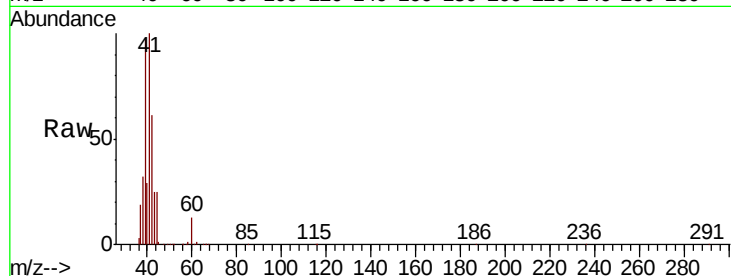
42 63.2 55.4 83.0

Manual Integrations

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

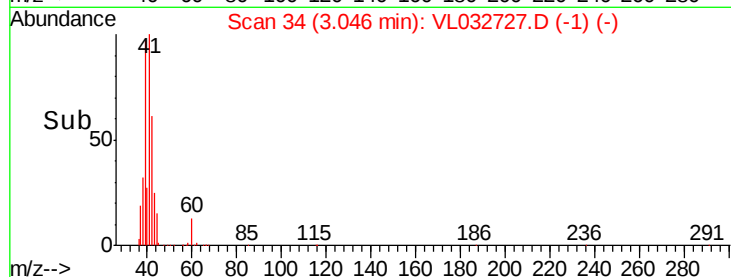
150000

100000

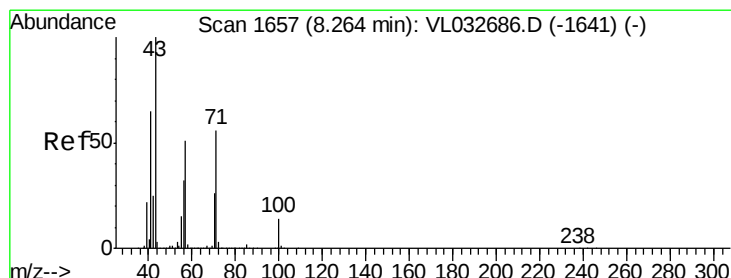
50000

0

Time-->



Time-->



#10

Heptane

Concen: 0.425 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.01 min

Lab File: VL032727.D

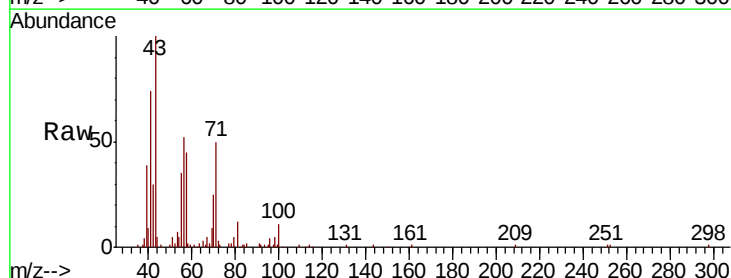
Acq: 7 Nov 2018 21:39

Tgt Ion: 43 Resp: 70459

Ion Ratio Lower Upper

43 100

57 54.2 41.5 62.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

40000

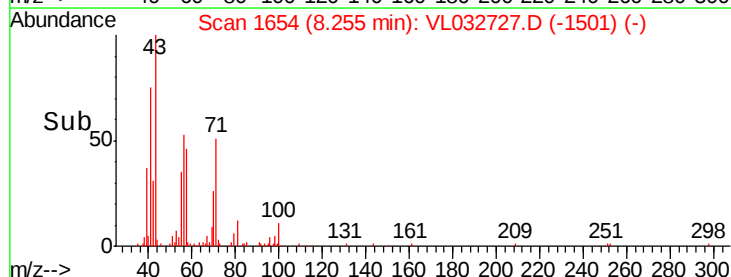
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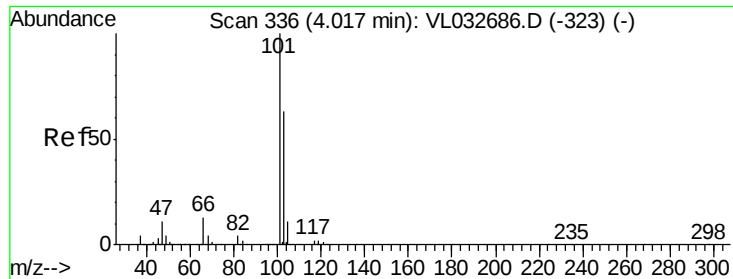
20000

10000

0

Time-->





#11

Trichlorofluoromethane

Concen: 0.242 ppbv

RT: 4.01 min Scan# 334

Delta R.T. -0.00 min

Lab File: VL032727.D

Acq: 7 Nov 2018 21:39

Instrument :

MSVOA_L

ClientSampled :

SV-02

Tot Ion: 101 Resp: 42959

Ion Ratio Lower Upper

101 100

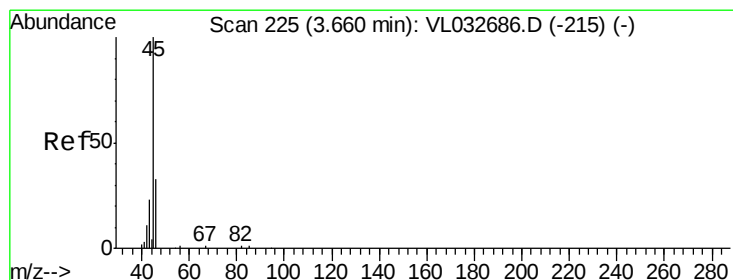
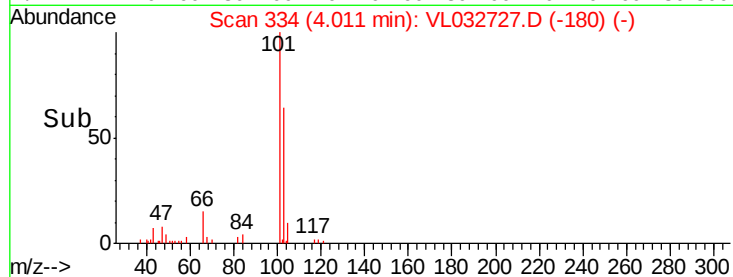
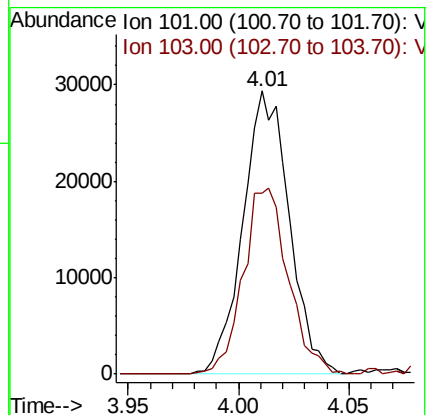
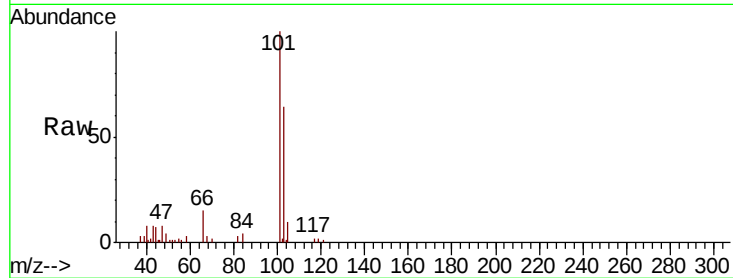
103 64.0 51.4 77.2

Manual Integrations

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#13

Ethanol

Concen: 7.331 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.00 min

Lab File: VL032727.D

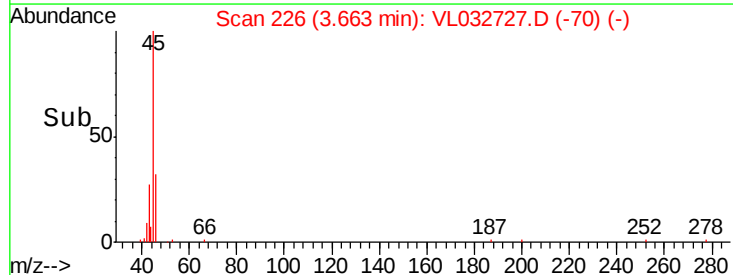
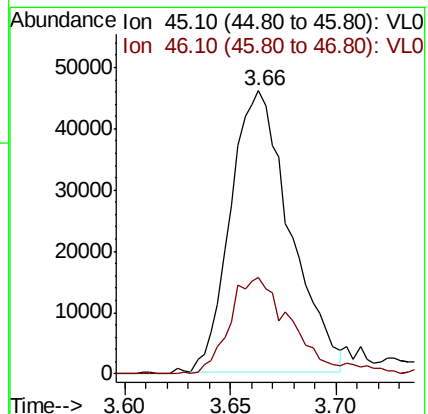
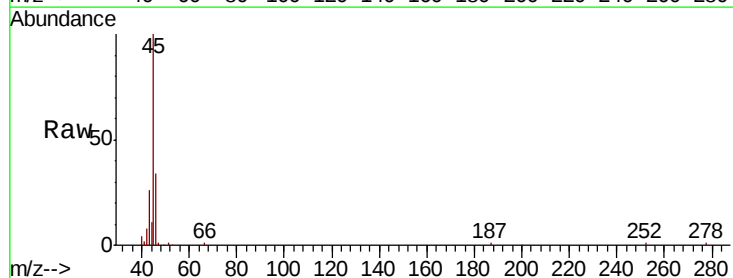
Acq: 7 Nov 2018 21:39

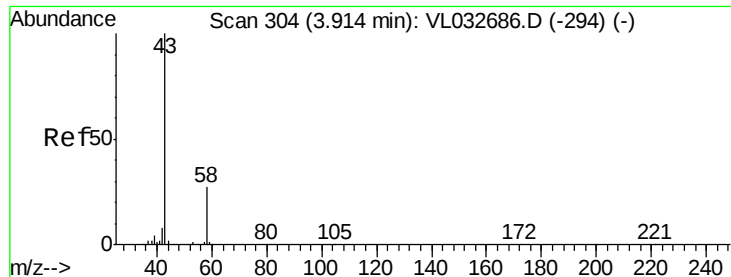
Tgt Ion: 45 Resp: 90039

Ion Ratio Lower Upper

45 100

46 36.2 15.4 61.8





#15

Acetone

Concen: 4.095 ppbv

RT: 3.91 min Scan# 303

Delta R.T. -0.00 min

Lab File: VL032727.D

Acq: 7 Nov 2018 21:39

Instrument :

MSVOA_L

ClientSampleId :

SV-02

Tot Ion: 43 Resp: 504883

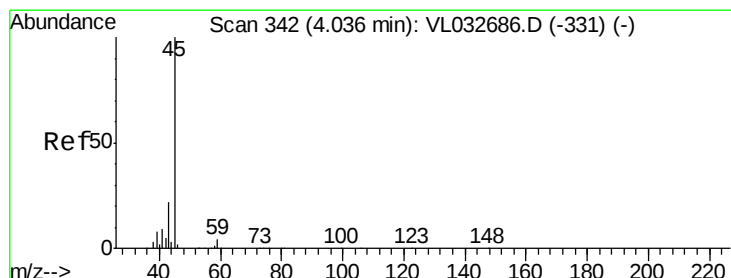
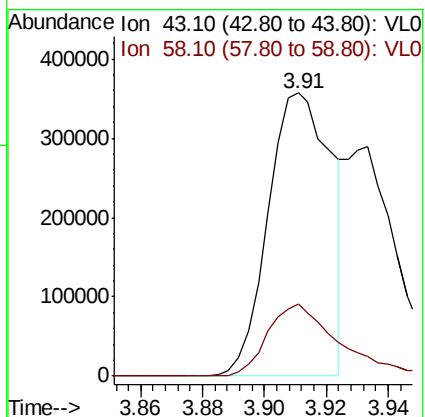
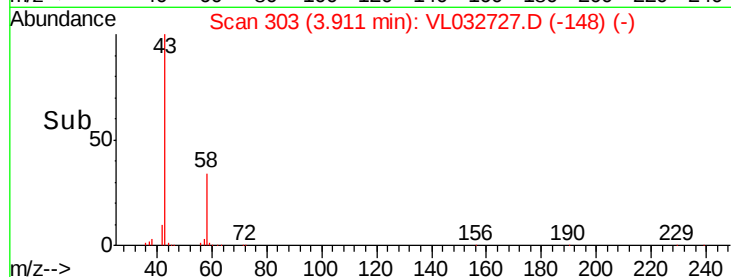
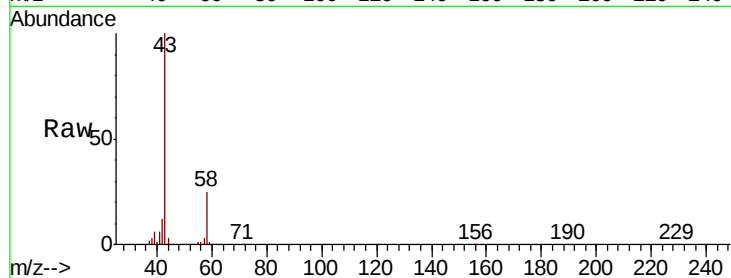
Ion Ratio Lower Upper

43 100

58 29.3 22.1 33.1

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 0.595 ppbv m

RT: 4.05 min Scan# 345

Delta R.T. 0.01 min

Lab File: VL032727.D

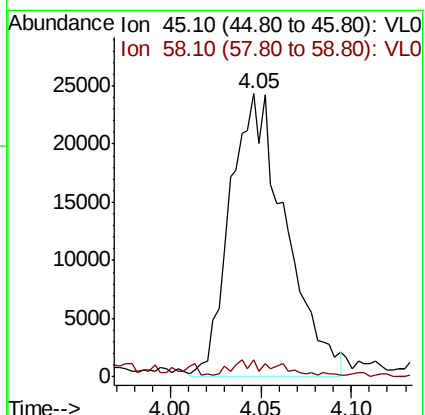
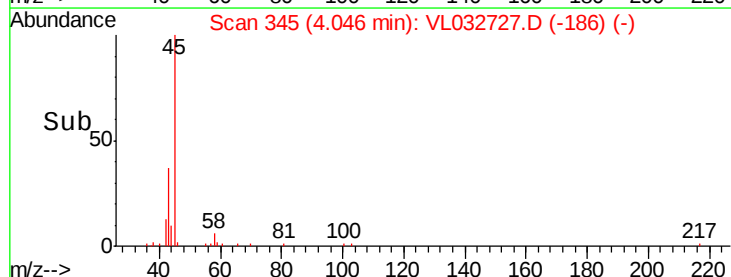
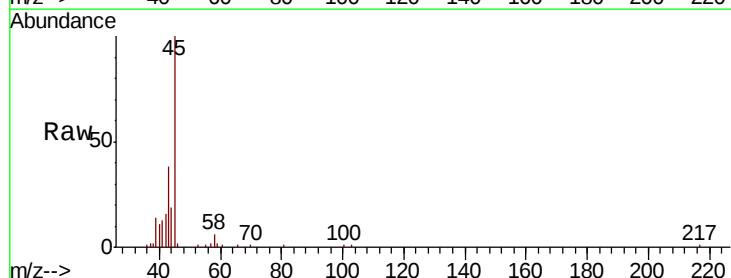
Acq: 7 Nov 2018 21:39

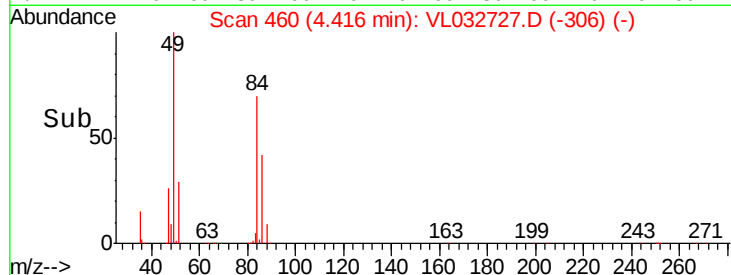
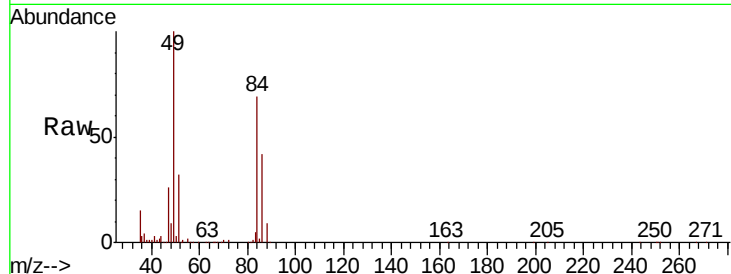
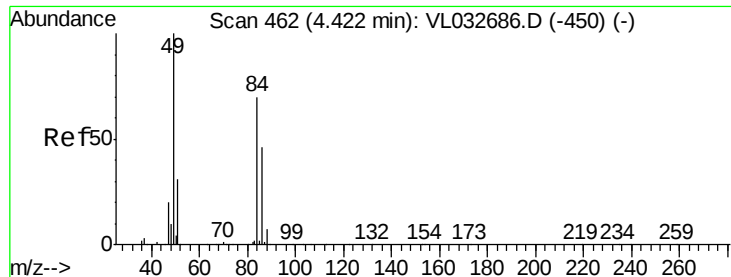
Tgt Ion: 45 Resp: 52254

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#





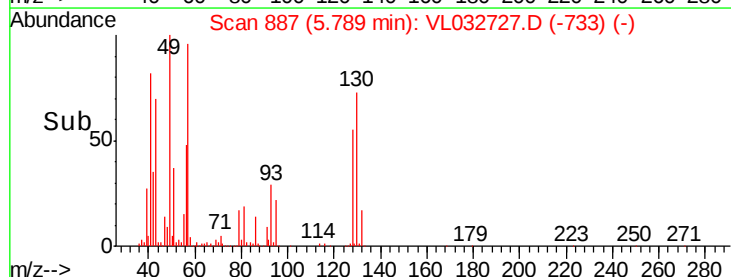
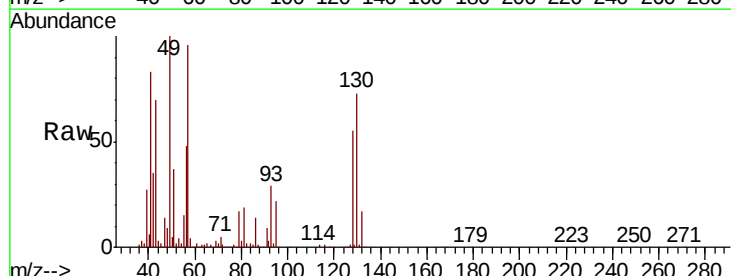
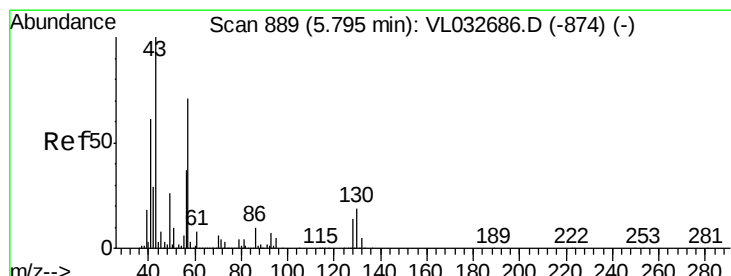
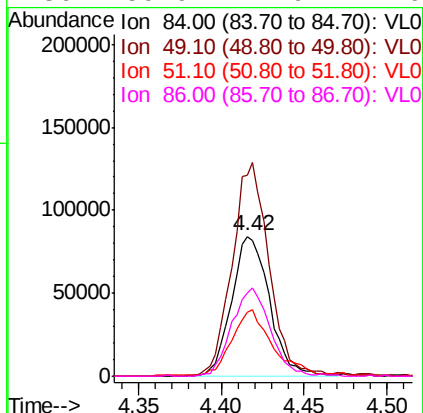
#20
Methvlene Chloride
Concen: 2.147 ppbv
RT: 4.42 min Scan# 460
Delta R.T. -0.00 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	143.7		113.5	170.3	
51	44.6		34.8	52.2	
86	59.9		47.9	71.9	

Instrument :
MSVOA_L
ClientSampled :
SV-02

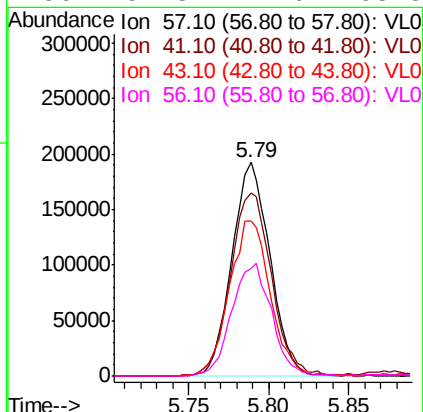
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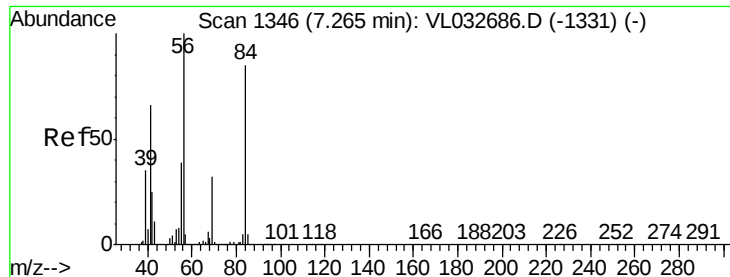
MMDadoda
11/12/2018 12:30:15 PM



#26
Hexane
Concen: 2.317 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	92.6		67.4	101.0	
43	78.3		171.9	257.9	
56	54.8		42.6	63.8	





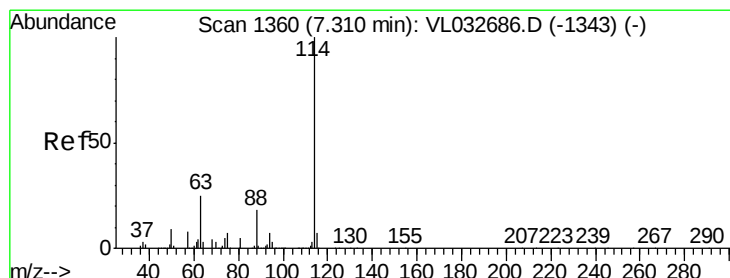
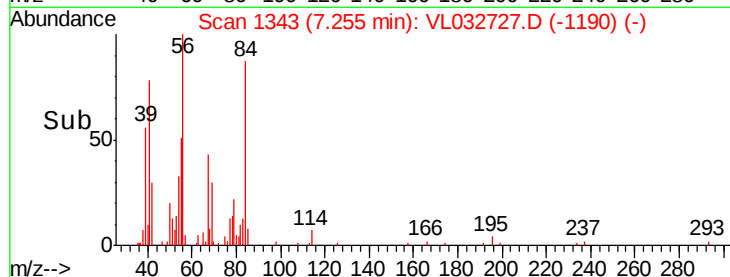
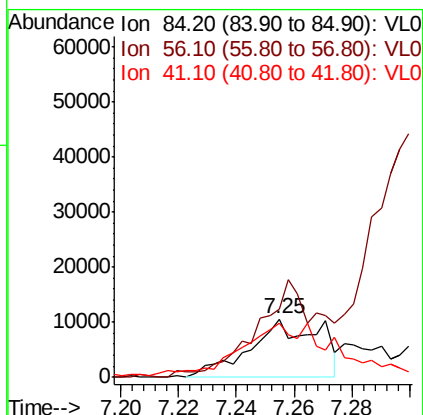
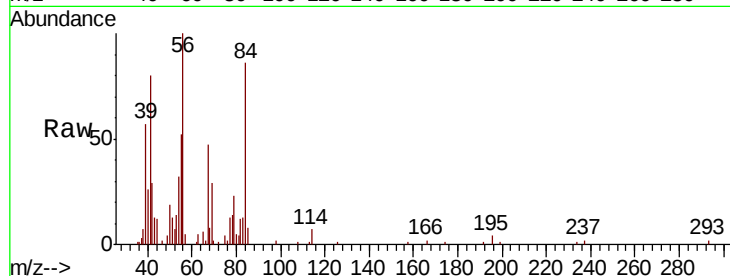
#30
Cvclohexane
Concen: 0.164 ppbv m
RT: 7.25 min Scan# 1343
Delta R.T. -0.01 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Instrument :
MSVOA_L
ClientSampled :
SV-02

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.3	162.5#
41	0.0	64.8	97.2#

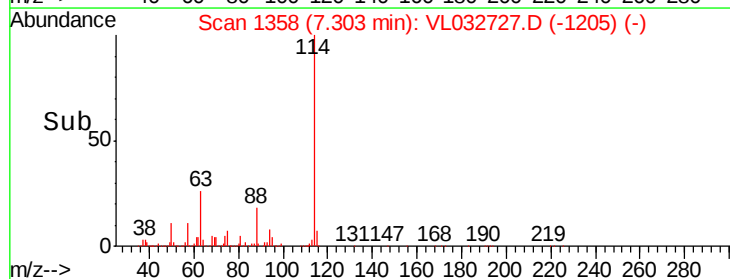
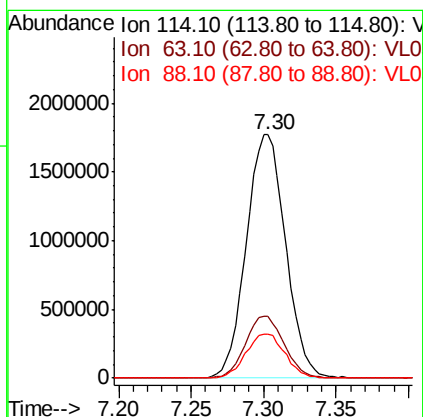
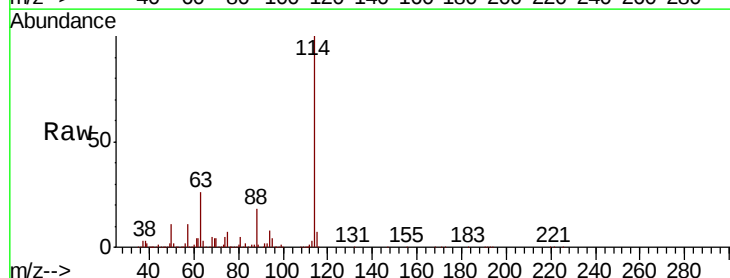
Manual Integrations
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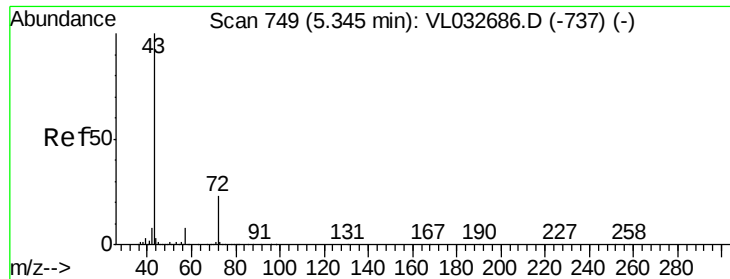
MMDadoda
11/12/2018 12:30:15 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.7	32.5
88	18.1	14.9	22.3





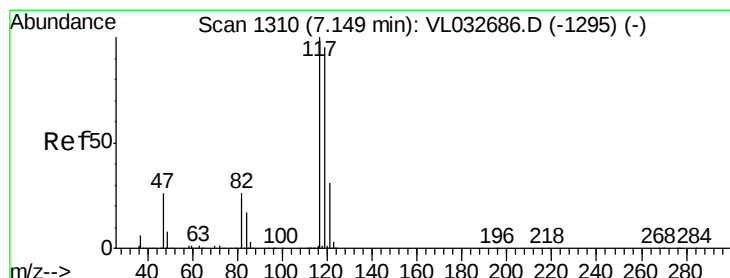
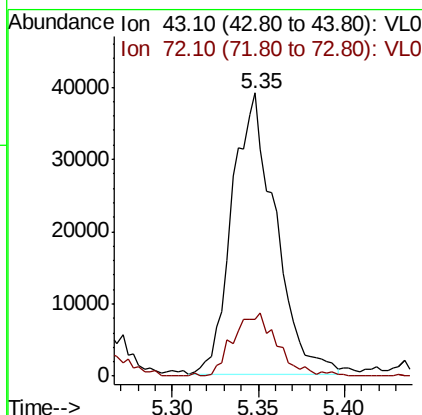
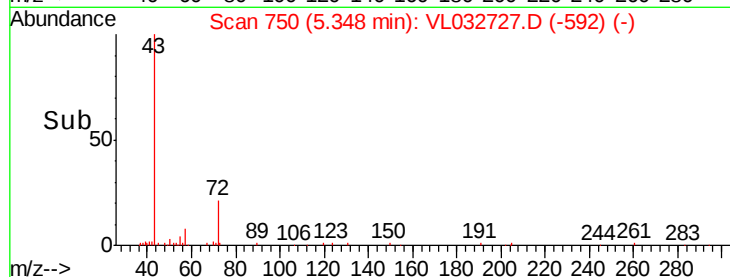
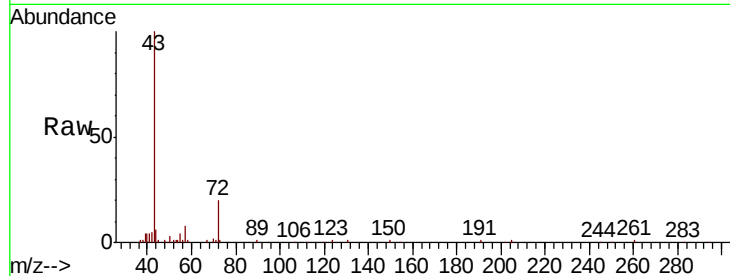
#34
2-Butanone
Concen: 0.383 ppbv
RT: 5.35 min Scan# 750
Delta R.T. 0.01 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Instrument :
MSVOA_L
ClientSampled :
SV-02

Tot Ion: 43 Resp: 68613
Ion Ratio Lower Upper
43 100
72 22.9 18.6 27.8

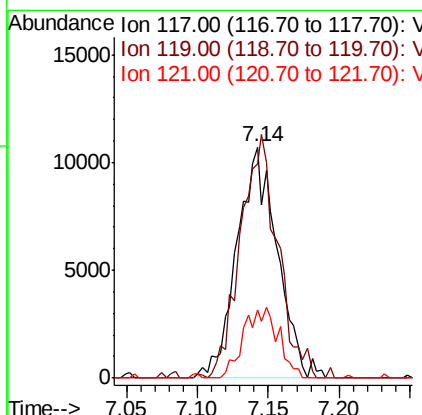
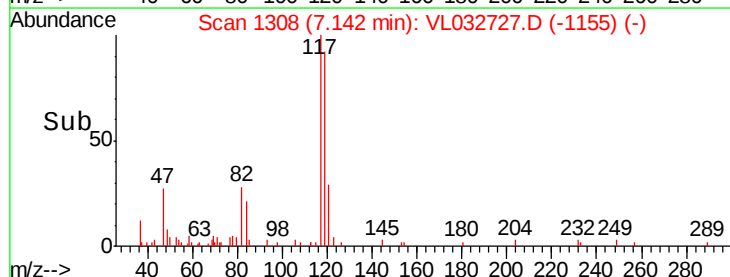
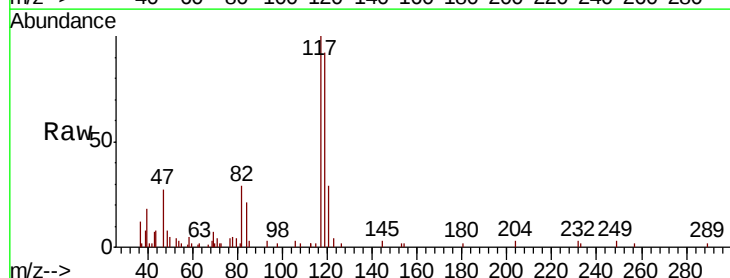
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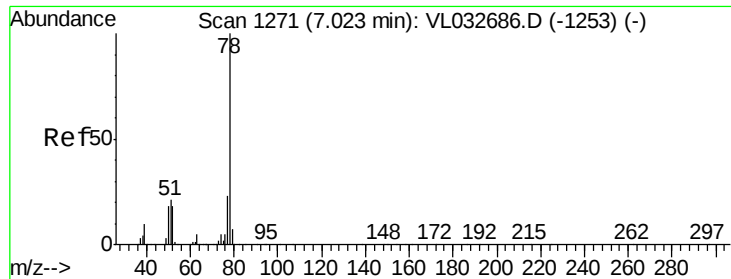
MMDadoda
11/12/2018 12:30:15 PM



#35
Carbon Tetrachloride
Concen: 0.089 ppbv m
RT: 7.14 min Scan# 1308
Delta R.T. -0.01 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Tgt Ion: 117 Resp: 21214
Ion Ratio Lower Upper
117 100
119 92.4 75.7 113.5
121 29.4 24.7 37.1





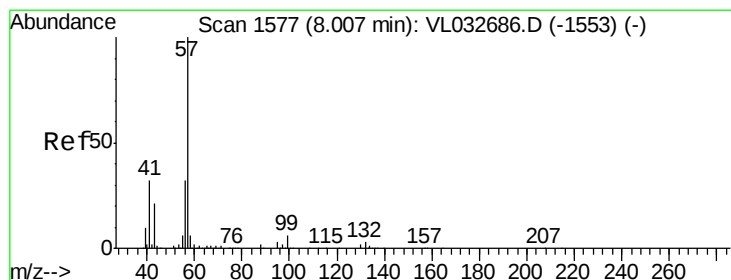
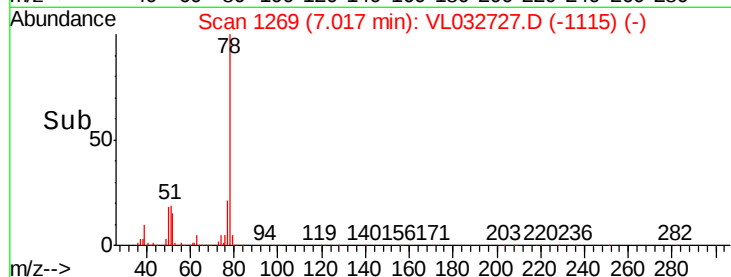
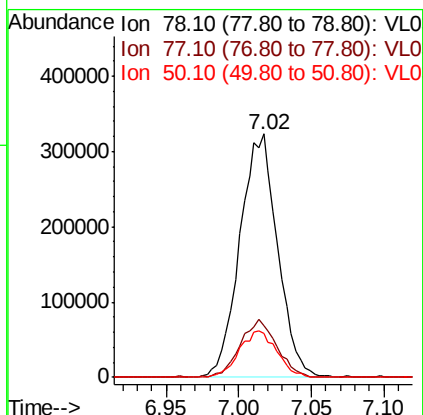
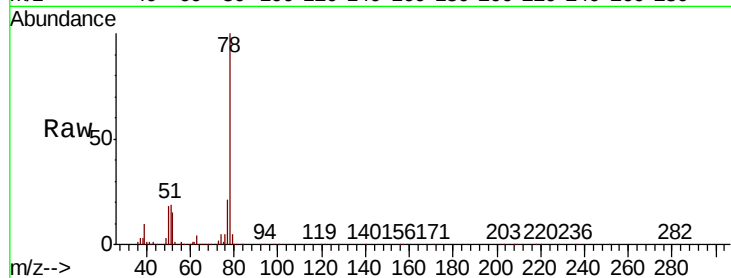
#36
Benzene
Concen: 2.148 ppbv
RT: 7.02 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Instrument :
MSVOA_L
ClientSampleId :
SV-02

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.0	18.1	27.1
50	18.0	15.1	22.7

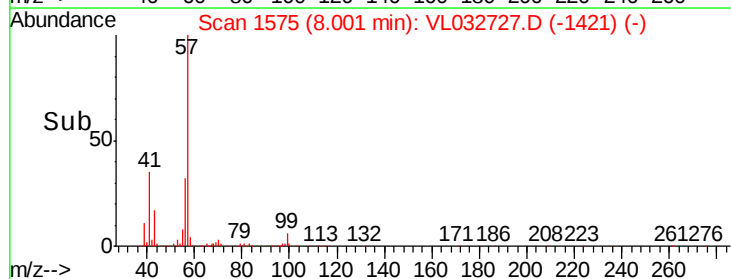
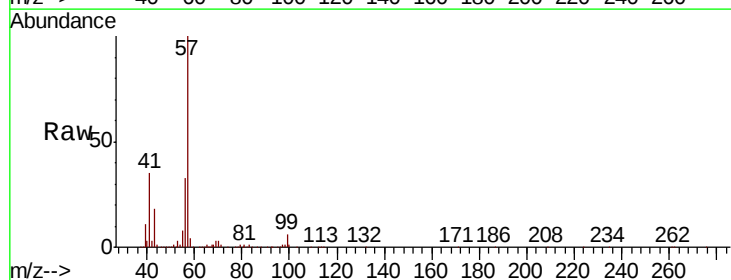
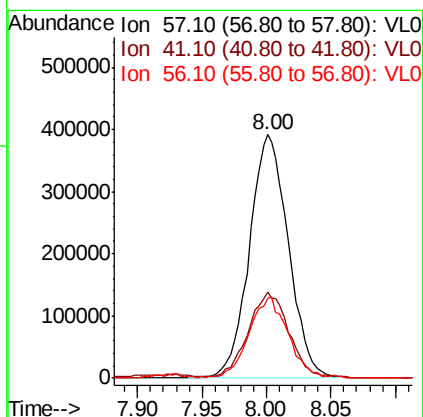
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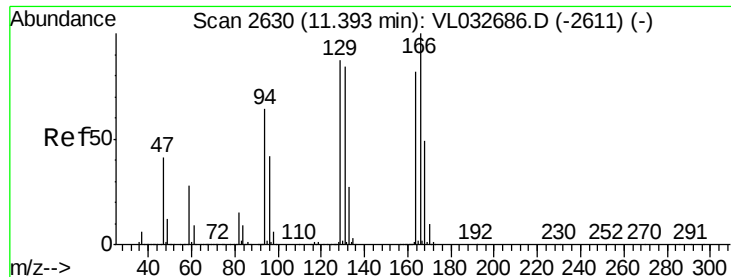
MMDadoda
11/12/2018 12:30:15 PM



#44
2,2,4-Trimethylpentane
Concen: 1.772 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Tgt Ion	Ratio	Lower	Upper
57	100		
41	37.1	24.7	37.1#
56	34.0	25.0	37.4





#52

Tetrachloroethene

Concen: 0.229 ppbv m

RT: 11.39 min Scan# 2629

Delta R.T. -0.00 min

Lab File: VL032727.D

Acq: 7 Nov 2018 21:39

Instrument :

MSVOA_L

ClientSampled :

SV-02

Tot Ion:164 Resp: 21695

Ion Ratio Lower Upper

164 100

166 91.0 100.5 150.7#

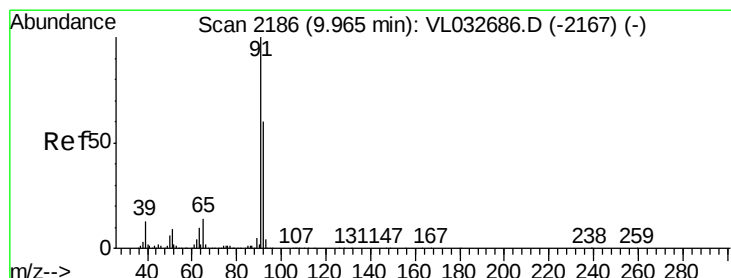
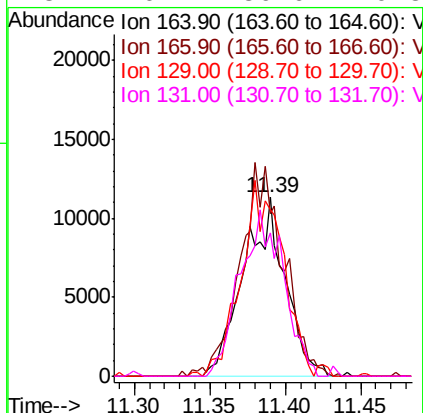
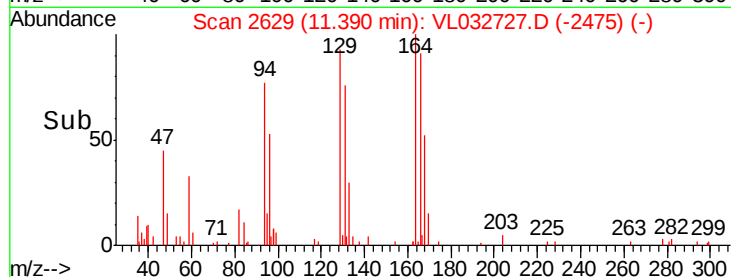
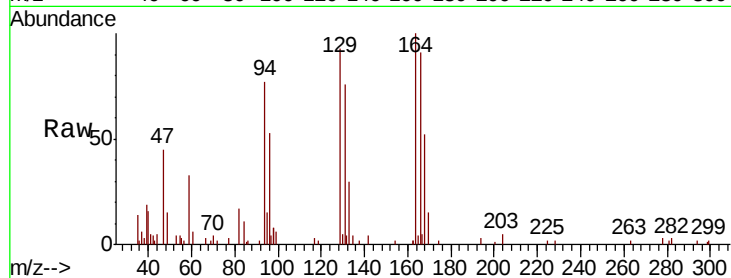
129 93.4 90.0 135.0

131 76.4 86.6 129.8#

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#53

Toluene

Concen: 16.911 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL032727.D

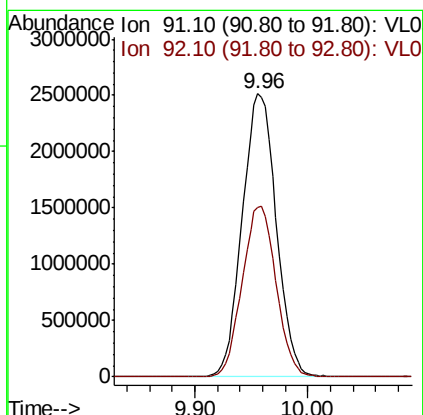
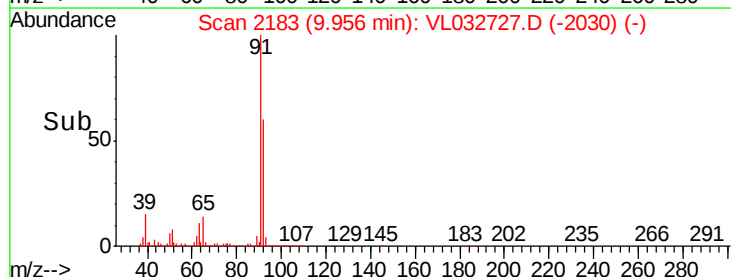
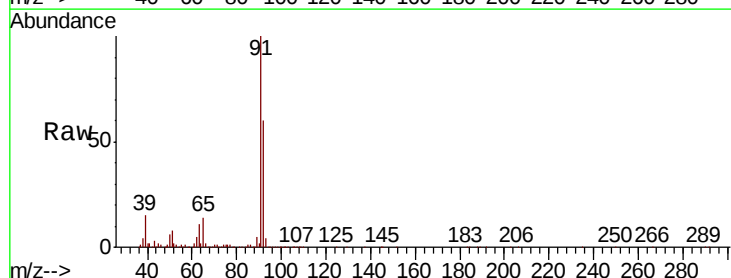
Acq: 7 Nov 2018 21:39

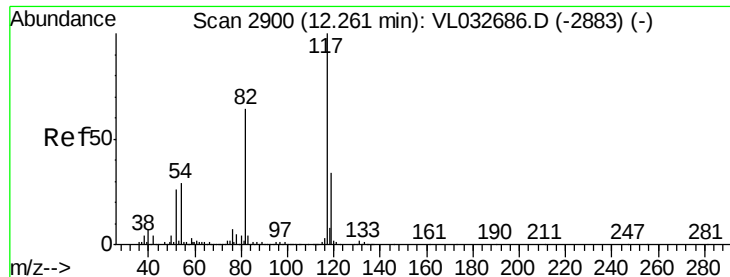
Tgt Ion: 91 Resp: 5258719

Ion Ratio Lower Upper

91 100

92 60.1 48.4 72.6





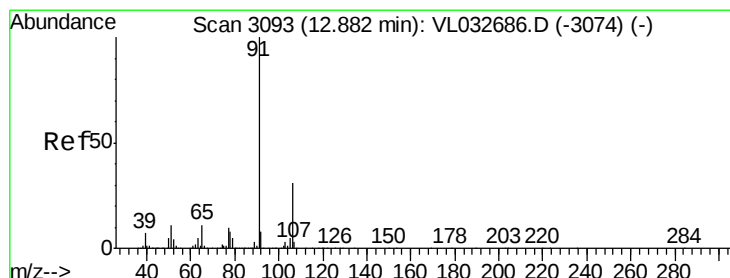
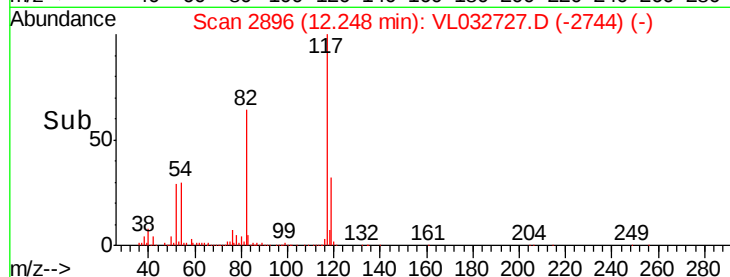
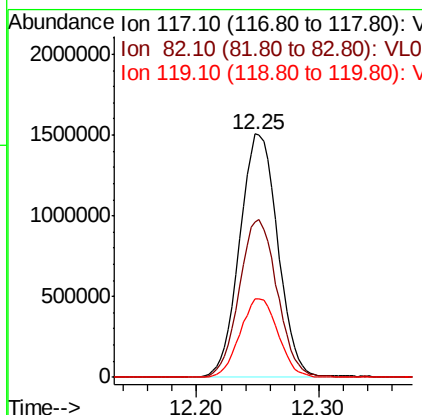
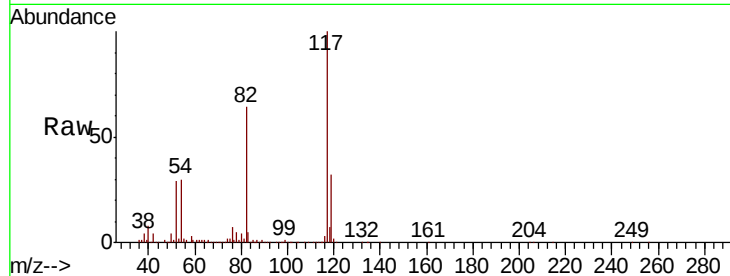
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.01 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Instrument :
MSVOA_L
ClientSampled :
SV-02

Tot Ion:117 Resp: 3248090
Ion Ratio Lower Upper
117 100
82 64.7 52.7 79.1
119 32.4 26.7 40.1

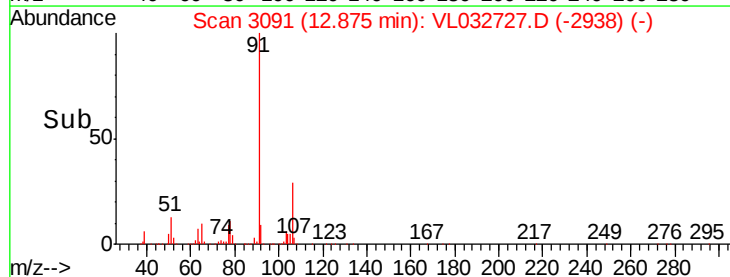
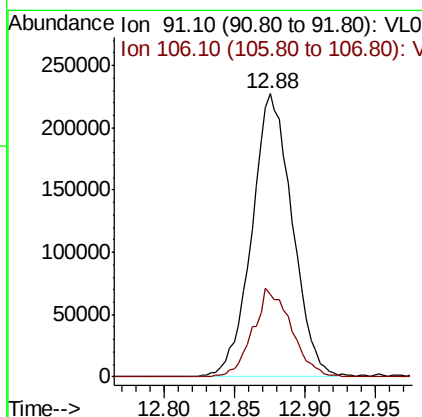
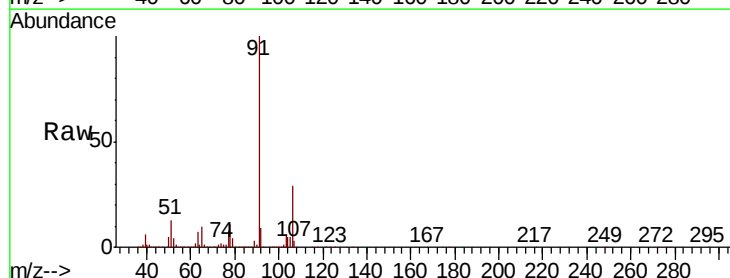
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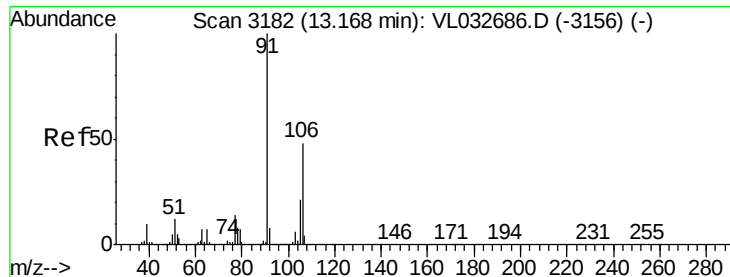
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#58
Ethyl Benzene
Concen: 1.199 ppbv
RT: 12.88 min Scan# 3091
Delta R.T. -0.01 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Tgt Ion: 91 Resp: 452458
Ion Ratio Lower Upper
91 100
106 29.3 24.2 36.2





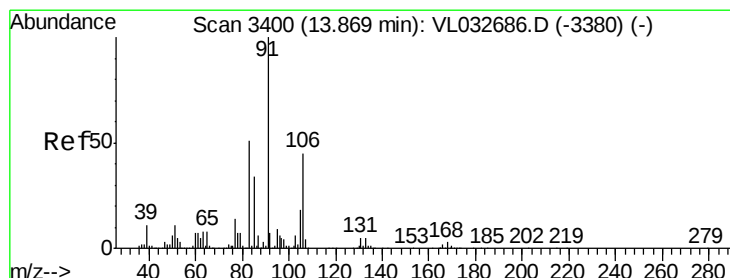
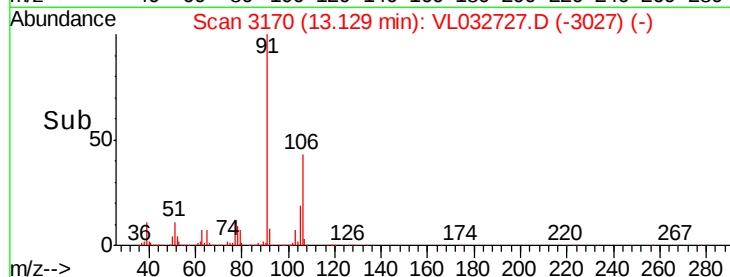
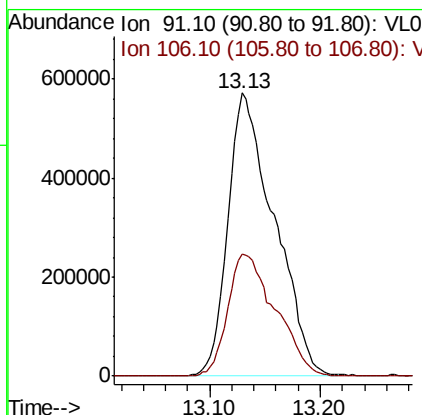
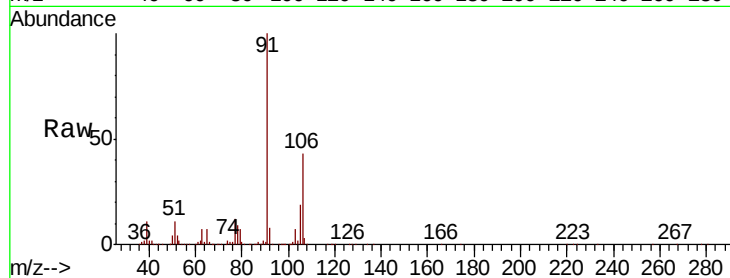
#59
m/p-Xylene
Concen: 4.926 ppbv
RT: 13.13 min Scan# 3170
Delta R.T. -0.04 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Instrument :
MSVOA_L
ClientSampled :
SV-02

Tot Ion: 91 Resp: 1655353
Ion Ratio Lower Upper
91 100
106 44.7 35.9 53.9

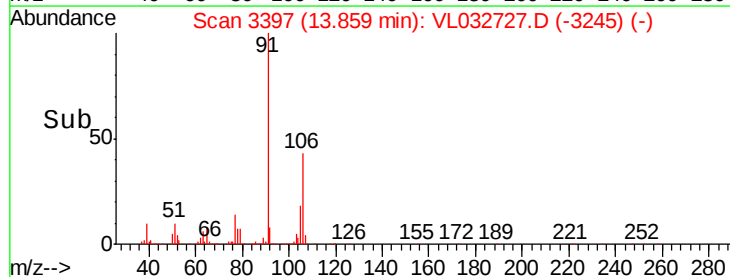
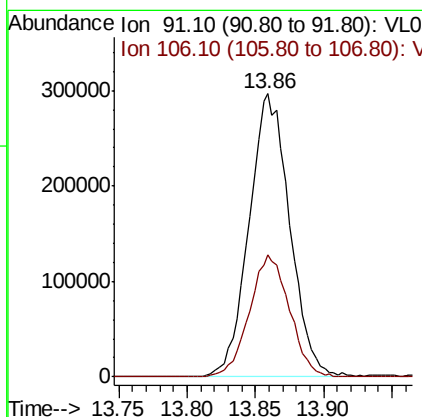
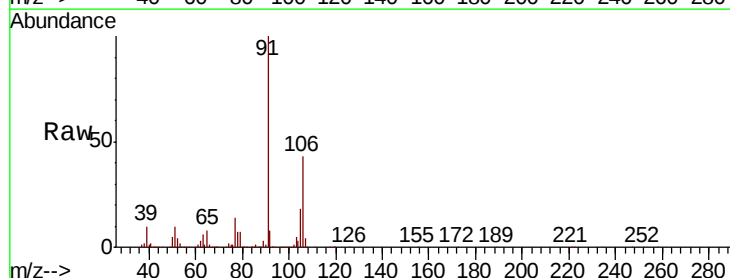
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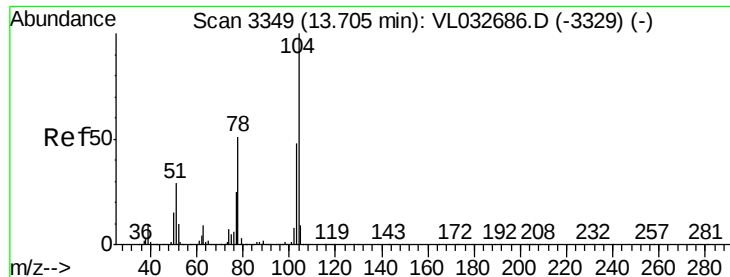
MMDadoda
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#60
o-Xylene
Concen: 1.889 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. -0.01 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Tgt Ion: 91 Resp: 612260
Ion Ratio Lower Upper
91 100
106 42.4 22.1 66.1





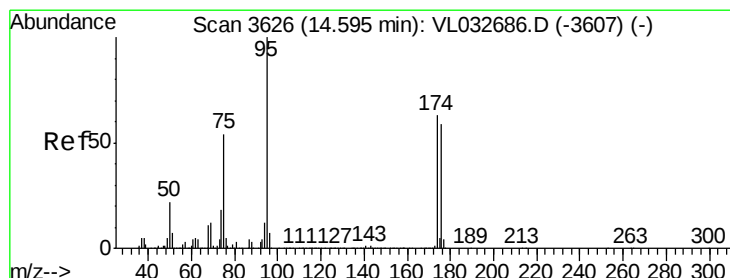
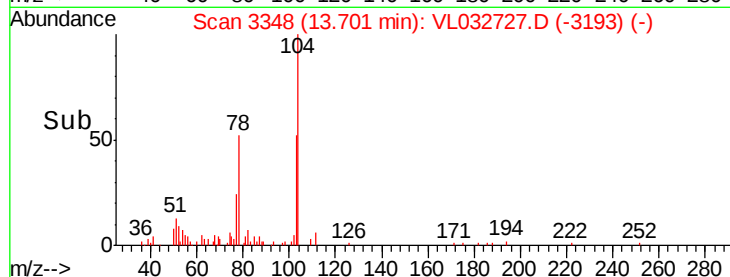
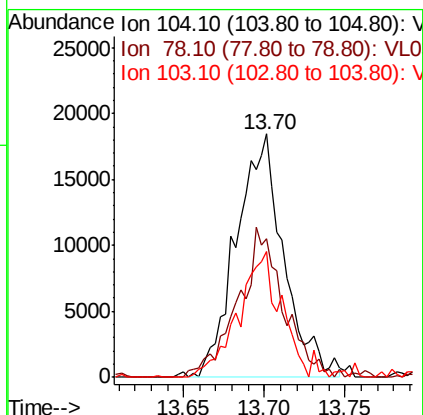
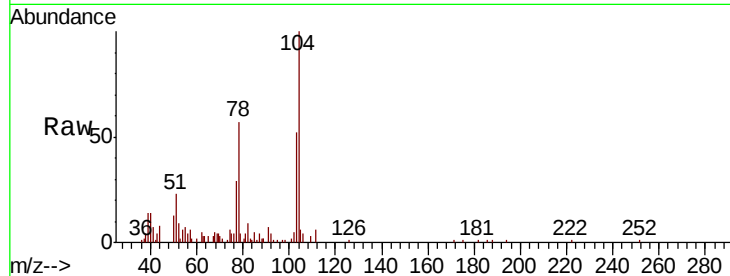
#61
Stvrene
Concen: 0.174 ppbv m
RT: 13.70 min Scan# 3348
Delta R.T. -0.00 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Instrument :
MSVOA_L
ClientSampled :
SV-02

Tot Ion	Ratio	Resp	Lower	Upper
104	100	37855		
78	59.6		42.8	64.2
103	0.0		37.4	56.0#

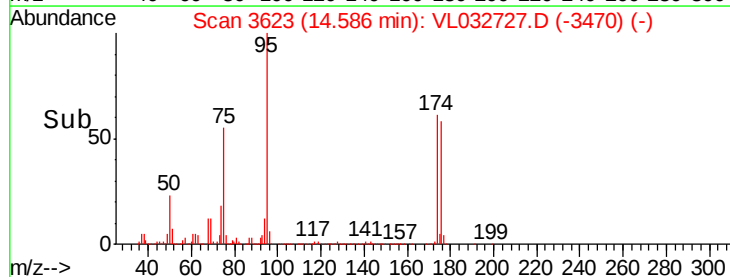
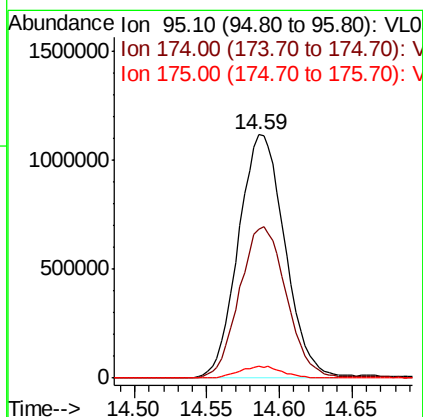
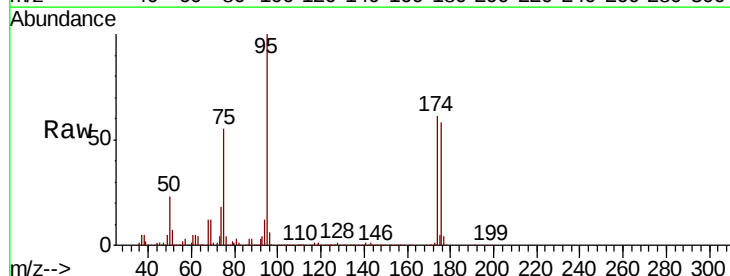
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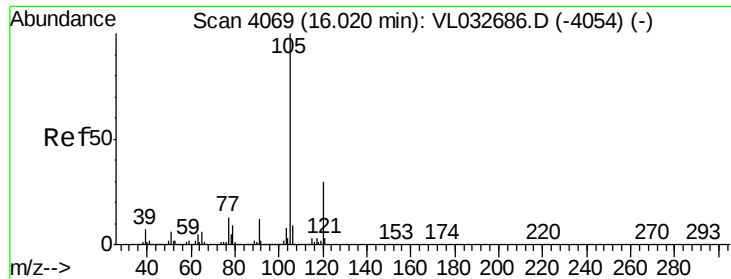
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.325 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.01 min
Lab File: VL032727.D
Acq: 7 Nov 2018 21:39

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	2497148		
174	63.4		46.0	69.0
175	4.6		3.4	5.0





#72

4-Ethyltoluene

Concen: 0.454 ppbv

RT: 16.01 min Scan# 4067

Delta R.T. -0.00 min

Lab File: VL032727.D

Acq: 7 Nov 2018 21:39

Instrument :

MSVOA_L

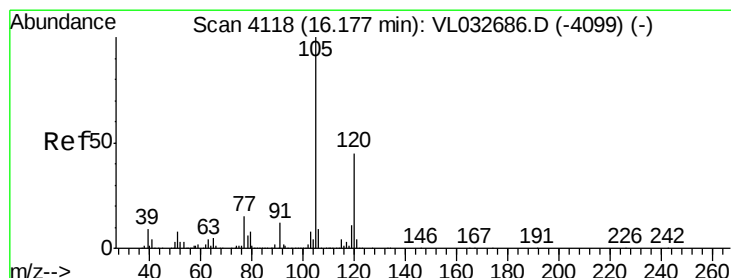
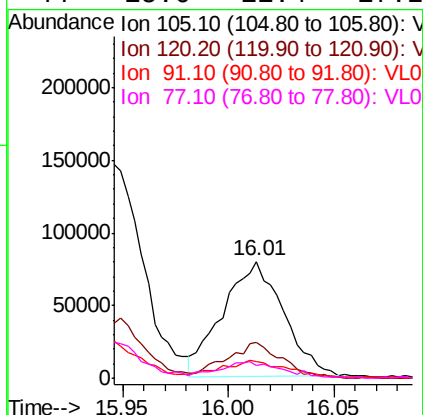
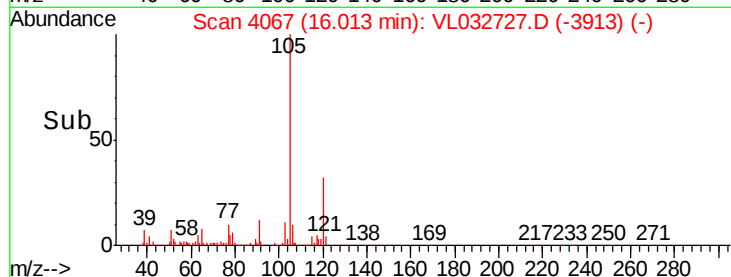
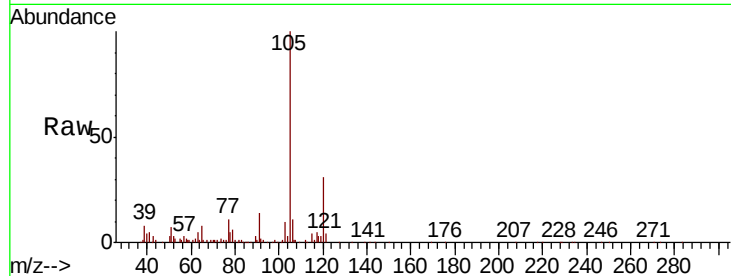
ClientSampled :

SV-02

Tot Ion	Ratio	Lower	Upper
105	100		
120	30.0	23.7	35.5
91	18.0	10.4	15.6
77	15.6	11.4	17.2

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#73

1,3,5-Trimethylbenzene

Concen: 0.372 ppbv m

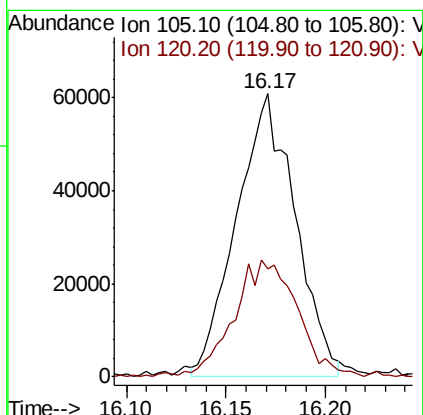
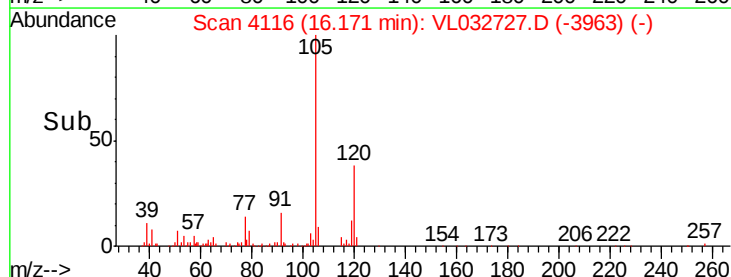
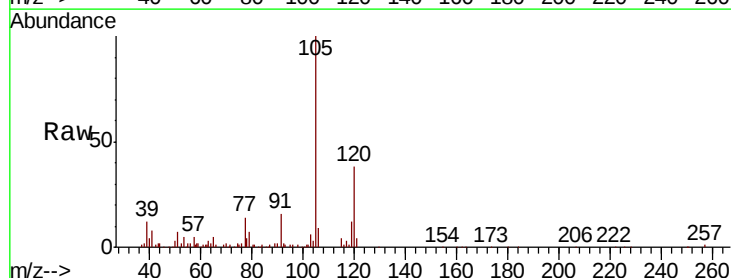
RT: 16.17 min Scan# 4116

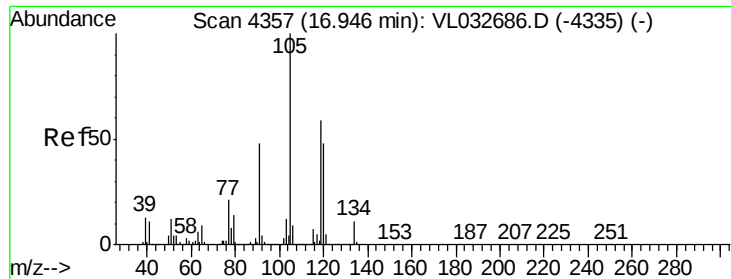
Delta R.T. -0.01 min

Lab File: VL032727.D

Acq: 7 Nov 2018 21:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	38.0	35.4	53.2





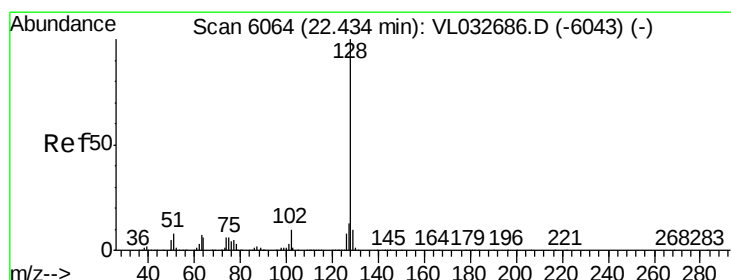
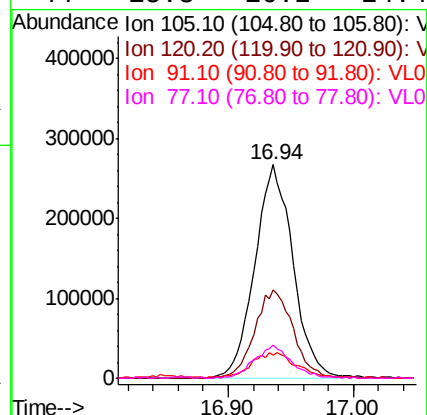
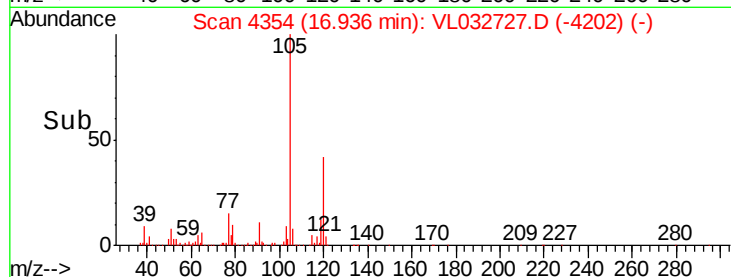
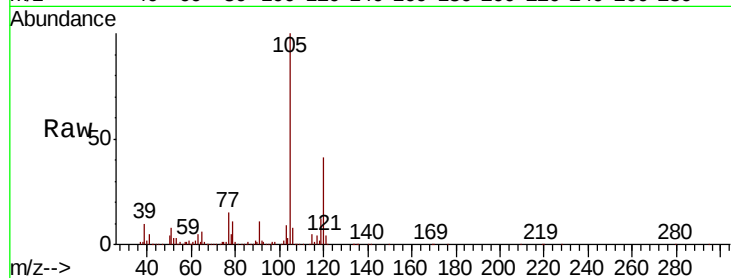
#74
 1,2,4-Trimethylbenzene
 Concen: 1.572 ppbv
 RT: 16.94 min Scan# 4354
 Delta R.T. -0.01 min
 Lab File: VL032727.D
 Acq: 7 Nov 2018 21:39

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02

Tot Ion	Ratio	Resp	Lower	Upper
105	100			
120	41.5	35.8	53.8	
91	10.3	33.2	49.8	
77	15.3	16.2	24.4	

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#79
 Naphthalene
 Concen: 0.207 ppbv m
 RT: 22.43 min Scan# 6063
 Delta R.T. -0.00 min
 Lab File: VL032727.D
 Acq: 7 Nov 2018 21:39

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
127	12.5	10.3	15.5	
129	10.0	8.6	13.0	

