

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120418\
 Data File : VL032896.D
 Acq On : 5 Dec 2018 3:57
 Operator : SY/AP
 Sample : J6177-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSV-4

Manual Integrations
 APPROVED

MMDadoda
 12/10/2018 1:01:41 PM

Quant Time: Dec 05 16:00:11 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	1374963	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3431306	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3527608	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2622871	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	45377	0.230	ppbv	94
3) Chlorodifluoromethane	3.02	51	276365	2.535	ppbv	93
4) Chloromethane	3.17	50	19896	0.329	ppbv	99
9) Propene	3.04	41	516781	11.846	ppbv	97
10) Heptane	8.25	43	49911	0.300	ppbv	97
11) Trichlorofluoromethane	4.01	101	37962	0.204	ppbv	99
13) Ethanol	3.66	45	1734408	121.386	ppbv	99
15) Acetone	3.90	43	2336077	18.604	ppbv #	67
20) Methylene Chloride	4.42	84	94357	1.452	ppbv	94
26) Hexane	5.78	57	175471	1.347	ppbv #	10
27) Carbon Disulfide	4.62	76	368131	2.229	ppbv	99
34) 2-Butanone	5.33	43	6309115	35.451	ppbv	98
36) Benzene	7.01	78	235059	0.860	ppbv	99
44) 2,2,4-Trimethylpentane	8.00	57	103458m	0.227	ppbv	
51) 2-Hexanone	10.28	43	591405	3.302	ppbv #	92
52) Tetrachloroethene	11.37	164	11422m	0.120	ppbv	
53) Toluene	9.95	91	313054	1.098	ppbv	99
58) Ethyl Benzene	12.87	91	464629	1.094	ppbv	97
59) m/p-Xylene	13.13	91	1310074	3.466	ppbv	96
60) o-Xylene	13.86	91	554846	1.460	ppbv	98
61) Styrene	13.69	104	45103	0.182	ppbv #	85
74) 1,2,4-Trimethylbenzene	16.93	105	81519	0.187	ppbv #	73

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

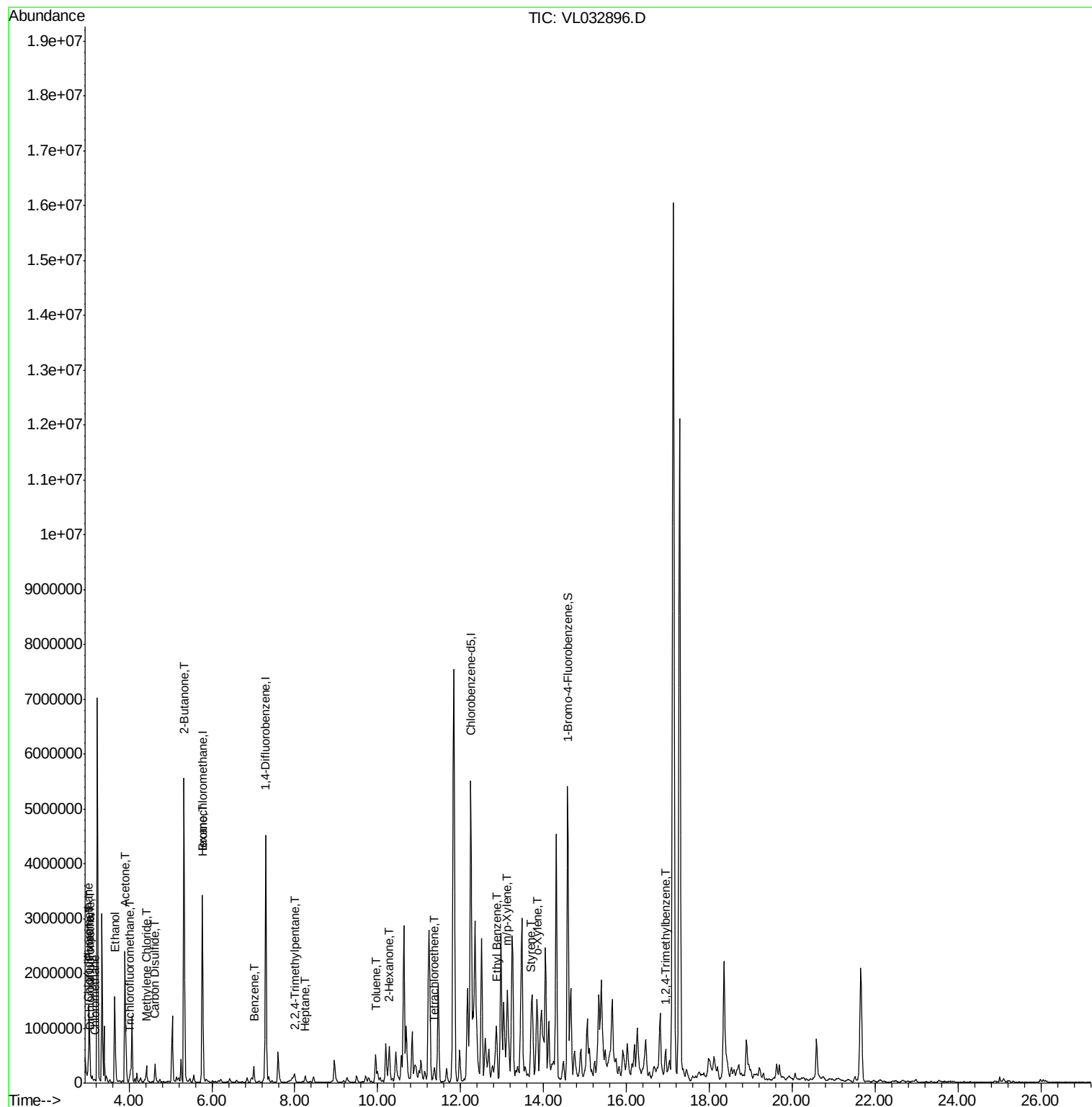
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120418\
Data File : VL032896.D
Acq On : 5 Dec 2018 3:57
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

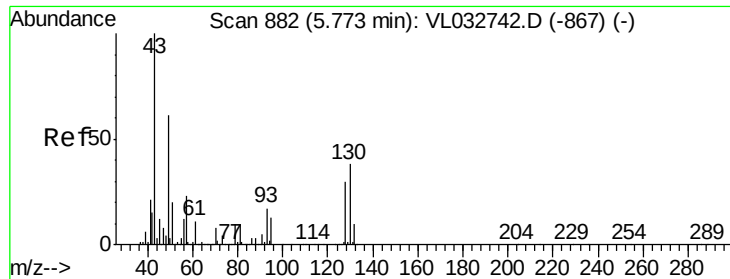
Instrument :
MSVOA_L
ClientSampleId :
VSV-4

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Quant Time: Dec 05 16:00:11 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# 880

Delta R.T. -0.01 min

Lab File: VL032896.D

Acq: 5 Dec 2018 3:57

Instrument :

MSVOA_L

ClientSampled :

VSV-4

Tot Ion: 49 Resp: 1374963

Ion Ratio Lower Upper

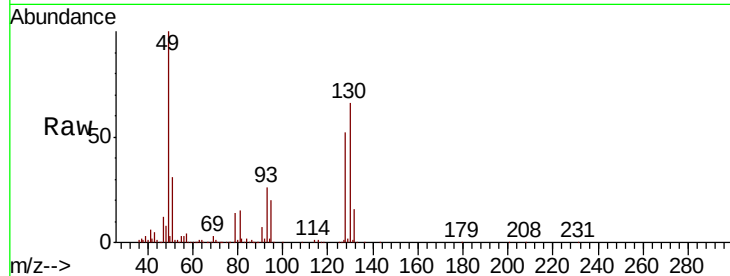
49 100

128 51.4 24.9 74.6

130 66.7 31.4 94.2

Manual Integrations
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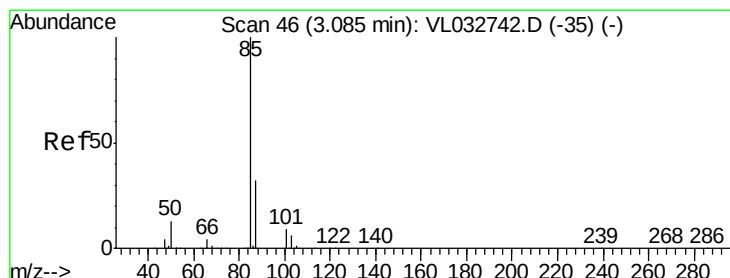
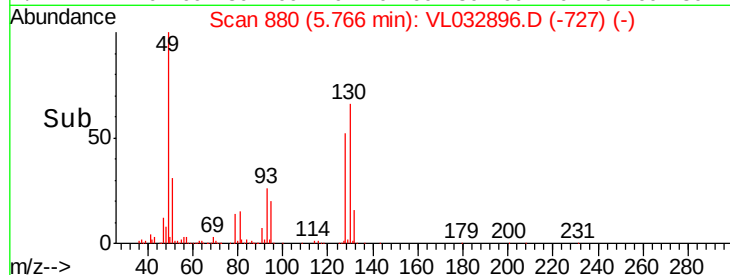
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.77

Time-->



#2

Dichlorodifluoromethane

Concen: 0.230 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.01 min

Lab File: VL032896.D

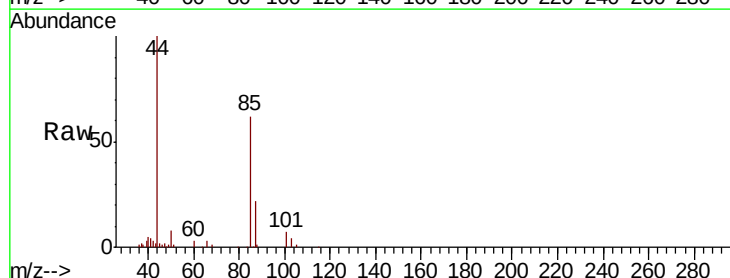
Acq: 5 Dec 2018 3:57

Tgt Ion: 85 Resp: 45377

Ion Ratio Lower Upper

85 100

87 36.1 26.0 39.0

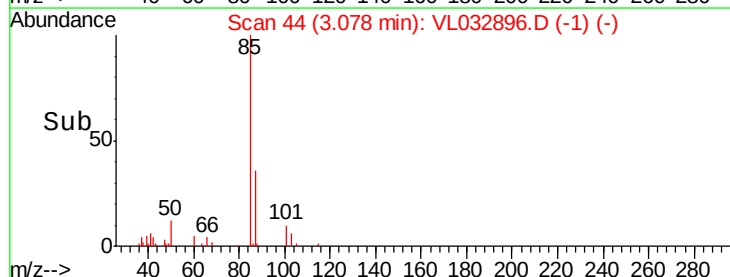


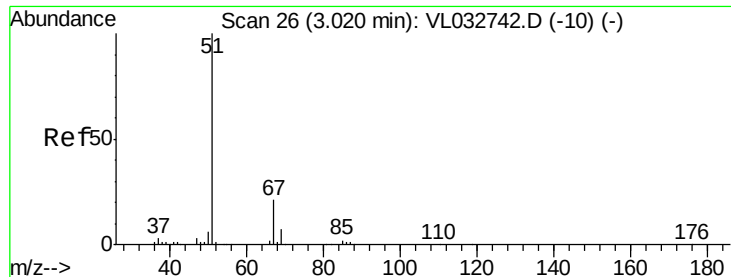
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.08

Time-->





#3

Chlorodifluoromethane

Concen: 2.535 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL032896.D

Acq: 5 Dec 2018 3:57

Instrument :

MSVOA_L

ClientSampleId :

VSV-4

Tot Ion: 51 Resp: 276365

Ion Ratio Lower Upper

51 100

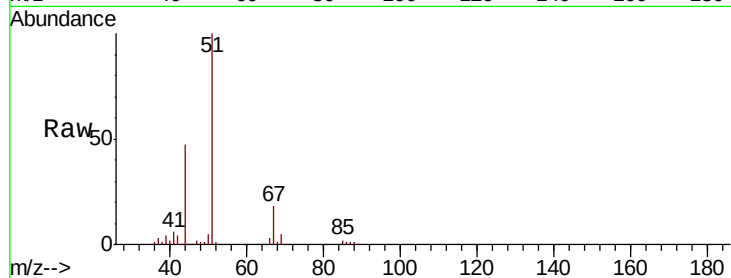
67 16.9 16.1 24.1

Manual Integrations

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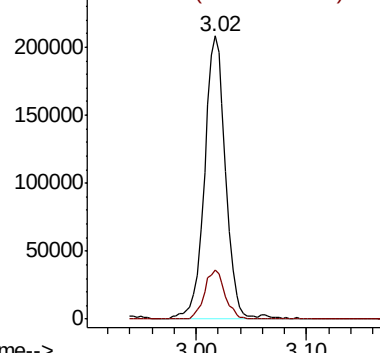
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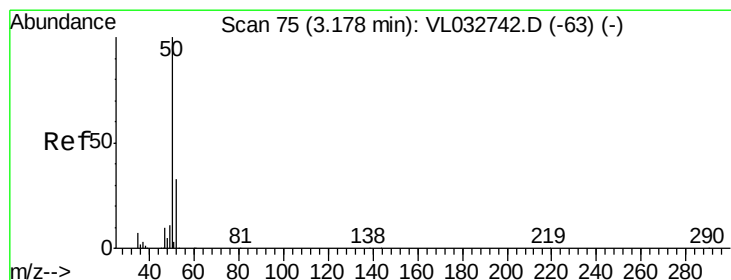
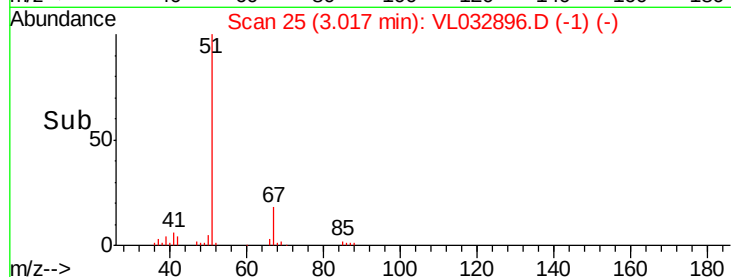


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.329 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.01 min

Lab File: VL032896.D

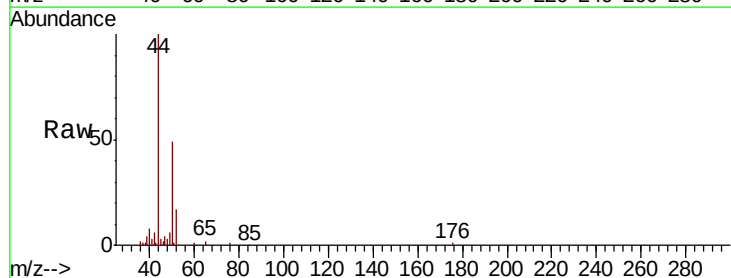
Acq: 5 Dec 2018 3:57

Tgt Ion: 50 Resp: 19896

Ion Ratio Lower Upper

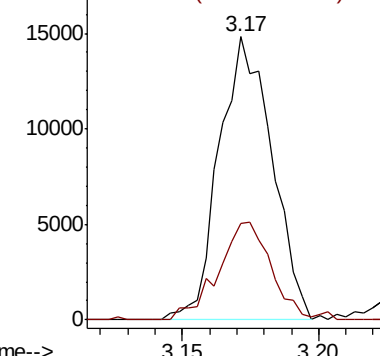
50 100

52 33.9 26.6 40.0

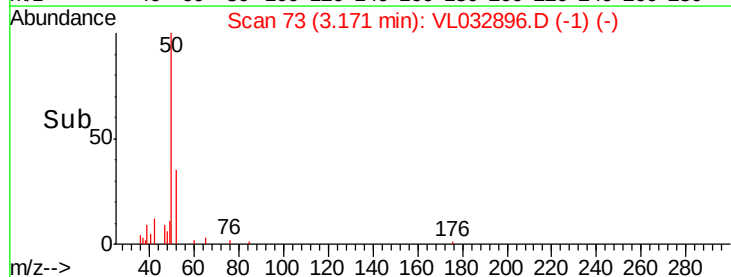


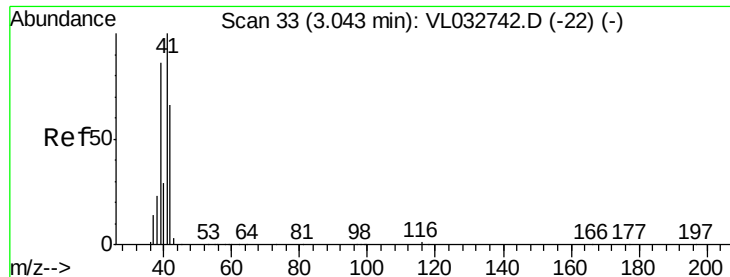
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#9

Propene

Concen: 11.846 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032896.D

Acq: 5 Dec 2018 3:57

Instrument :

MSVOA_L

ClientSampled :

VSV-4

Tot Ion: 41 Resp: 516781

Ion Ratio Lower Upper

41 100

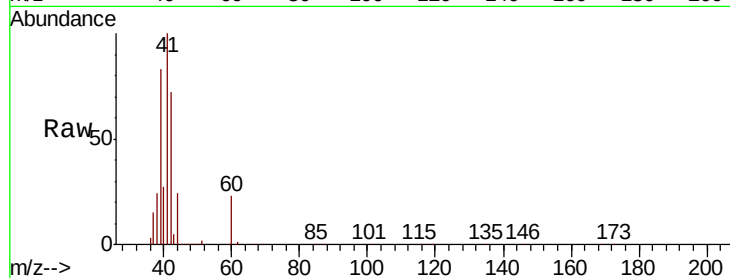
42 66.4 55.0 82.6

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.04

400000

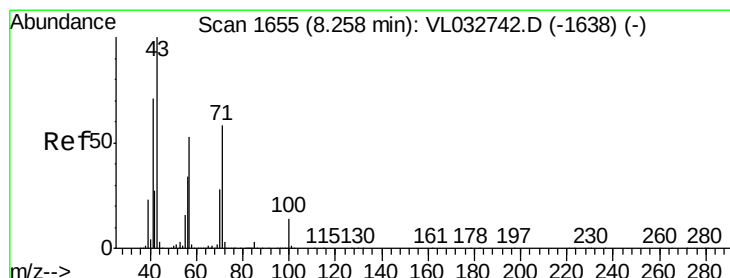
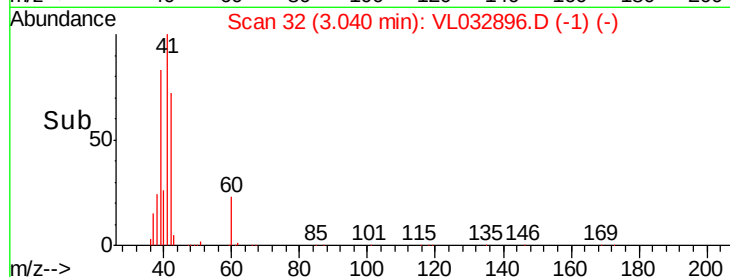
300000

200000

100000

0

Time-->



#10

Heptane

Concen: 0.300 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.01 min

Lab File: VL032896.D

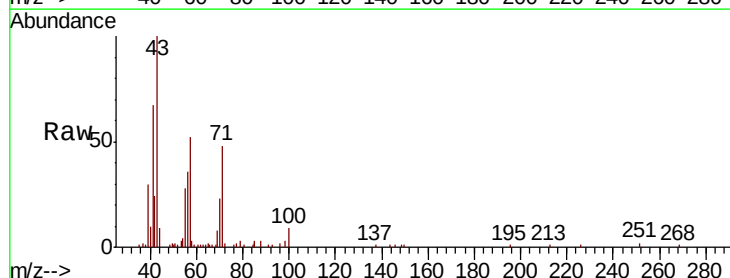
Acq: 5 Dec 2018 3:57

Tgt Ion: 43 Resp: 49911

Ion Ratio Lower Upper

43 100

57 50.4 41.8 62.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.25

30000

25000

20000

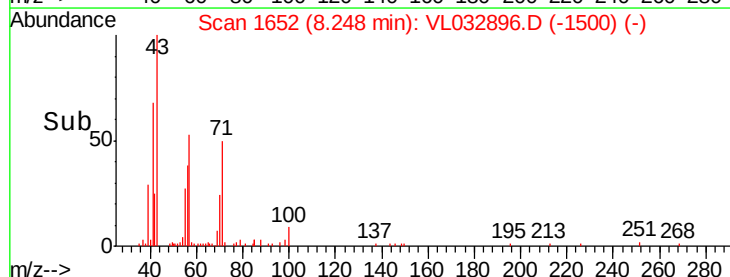
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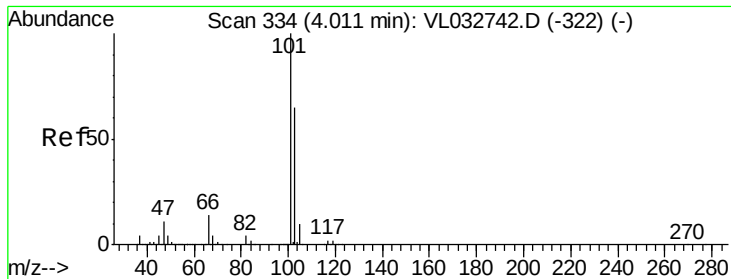
10000

5000

0

Time-->





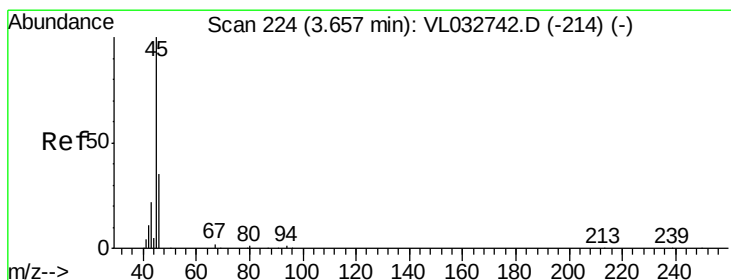
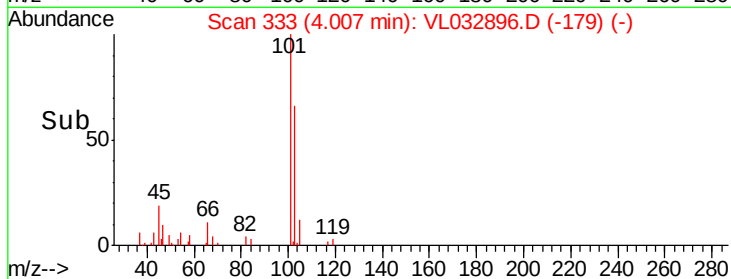
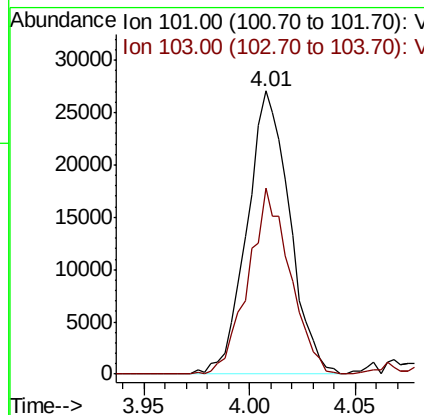
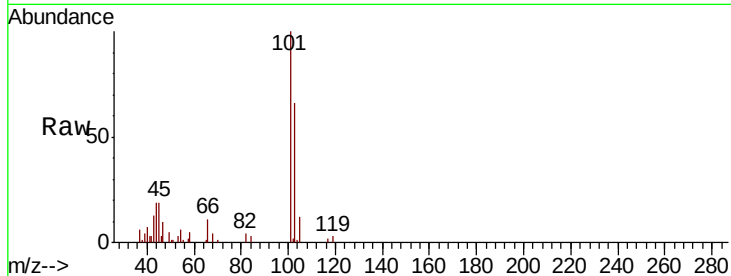
#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 4.01 min Scan# 333
Delta R.T. -0.00 min
Lab File: VL032896.D
Acq: 5 Dec 2018 3:57

Instrument :
MSVOA_L
ClientSampleId :
VSV-4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		37962		
103	65.6	51.6	77.4		

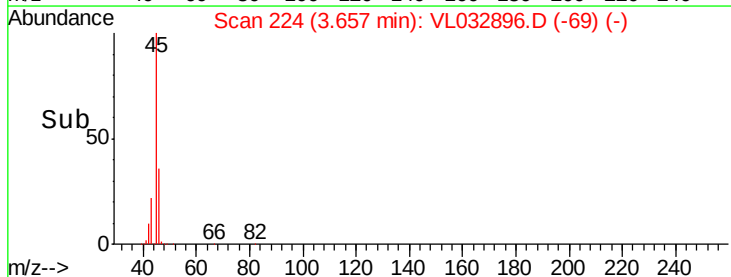
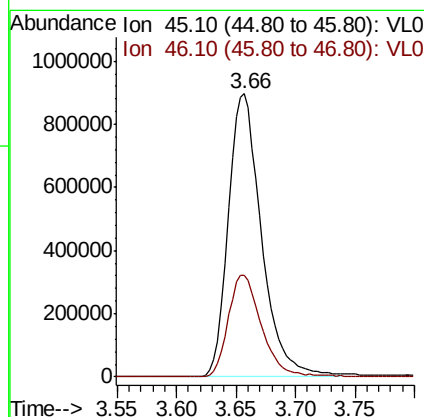
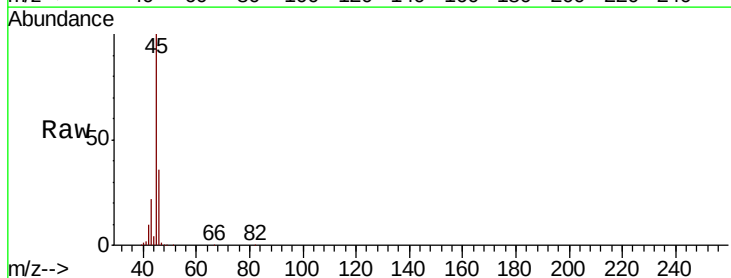
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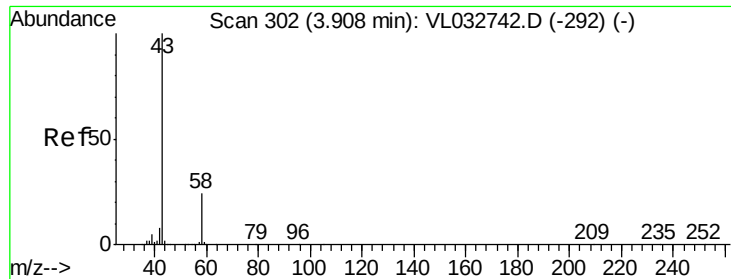
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#13
Ethanol
Concen: 121.386 ppbv
RT: 3.66 min Scan# 224
Delta R.T. -0.00 min
Lab File: VL032896.D
Acq: 5 Dec 2018 3:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		1734408		
46	36.5	14.5	57.9		





#15

Acetone

Concen: 18.604 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.01 min

Lab File: VL032896.D

Acq: 5 Dec 2018 3:57

Instrument :

MSVOA_L

ClientSampleId :

VSV-4

Tot Ion: 43 Resp: 2336077

Ion Ratio Lower Upper

43 100

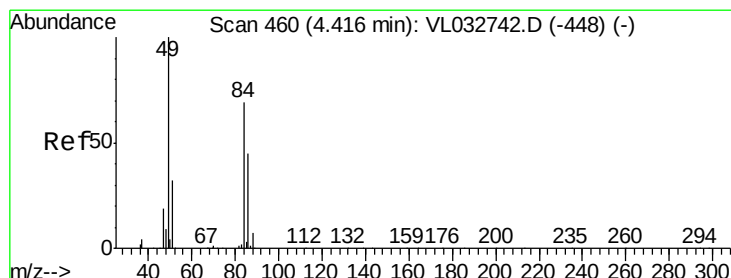
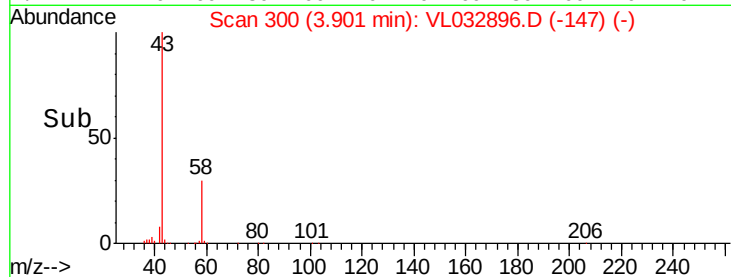
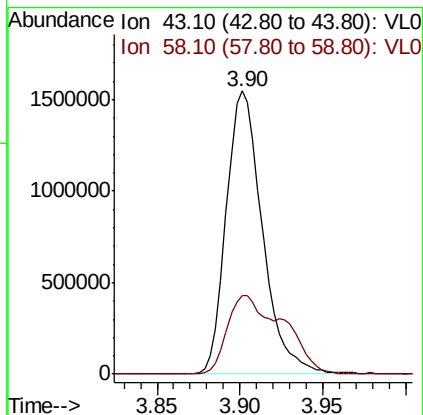
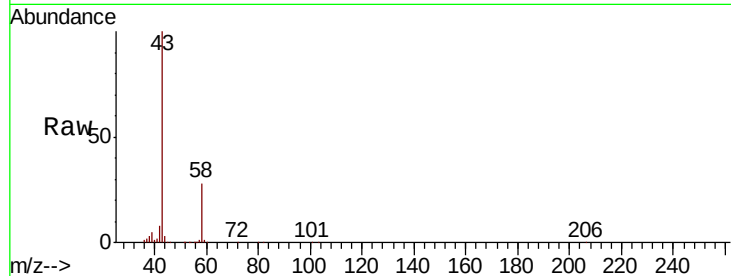
58 43.5 21.1 31.7#

Manual Integrations

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#20

Methylene Chloride

Concen: 1.452 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032896.D

Acq: 5 Dec 2018 3:57

Tgt Ion: 84 Resp: 94357

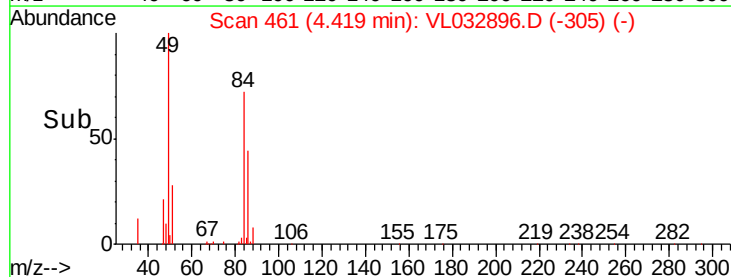
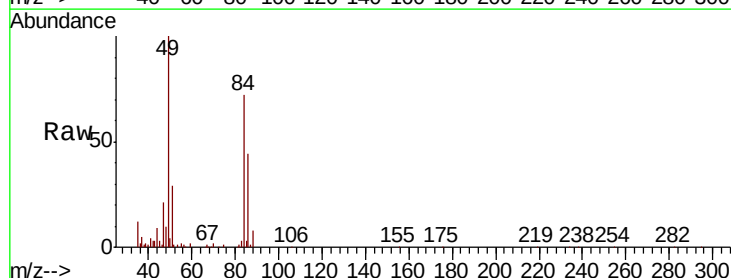
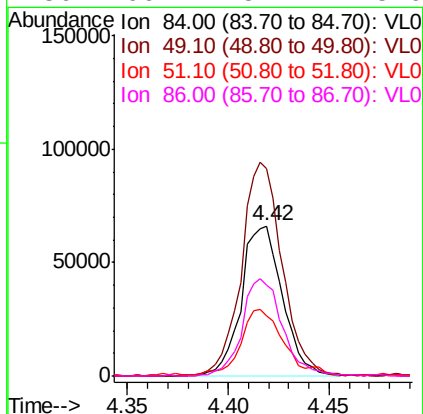
Ion Ratio Lower Upper

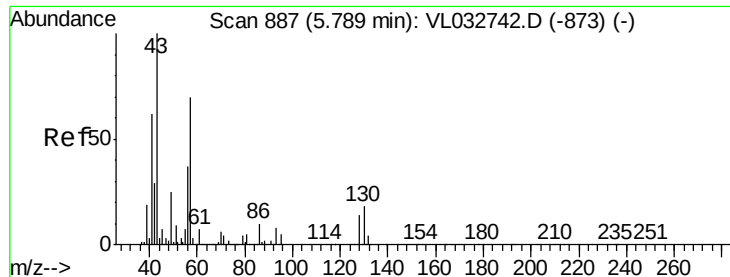
84 100

49 137.8 115.8 173.6

51 39.7 36.9 55.3

86 60.7 52.4 78.6





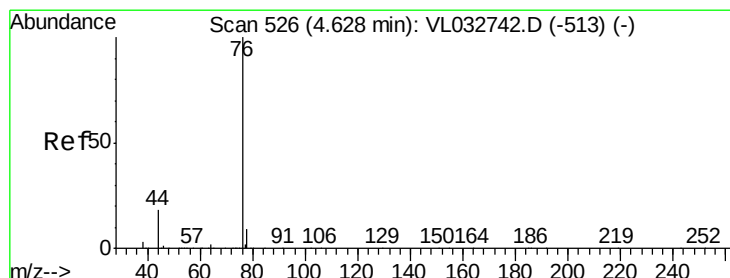
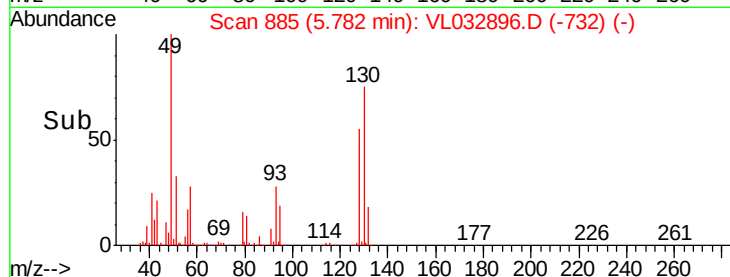
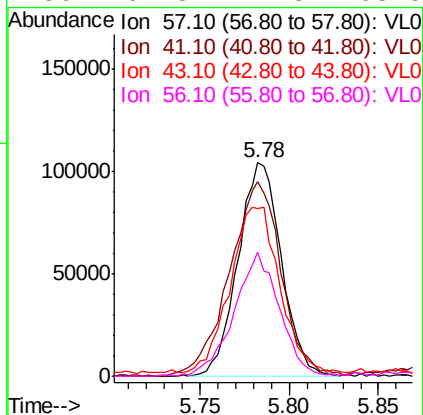
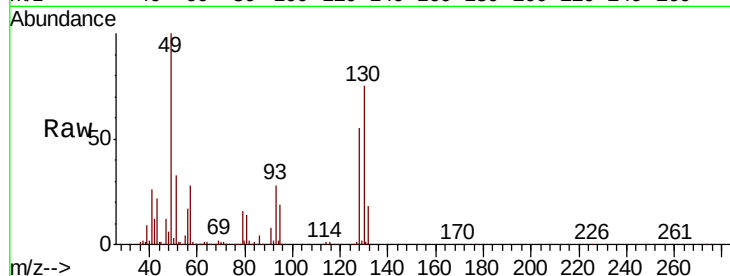
#26
Hexane
Concen: 1.347 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.01 min
Lab File: VL032896.D
Acq: 5 Dec 2018 3:57

Instrument :
MSVOA_L
ClientSampled :
VSV-4

Tot Ion	Ratio	Lower	Upper
57	100		
41	108.8	70.3	105.5#
43	0.0	174.0	261.0#
56	61.3	42.3	63.5

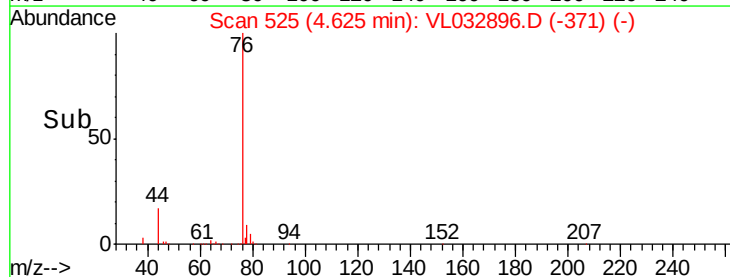
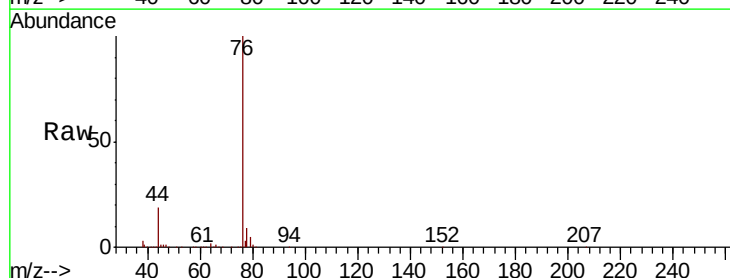
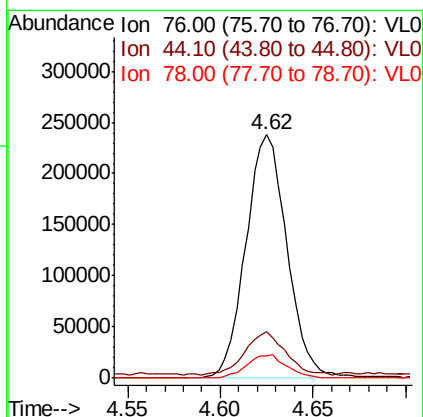
Manual Integrations
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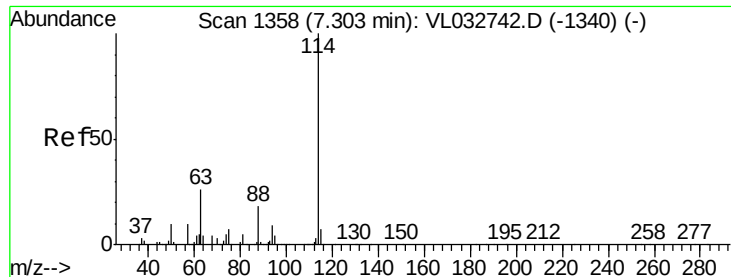
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#27
Carbon Disulfide
Concen: 2.229 ppbv
RT: 4.62 min Scan# 525
Delta R.T. -0.00 min
Lab File: VL032896.D
Acq: 5 Dec 2018 3:57

Tgt Ion	Ratio	Lower	Upper
76	100		
44	17.3	14.4	21.6
78	9.3	7.7	11.5





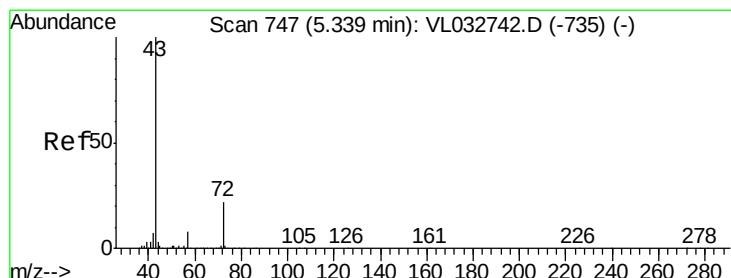
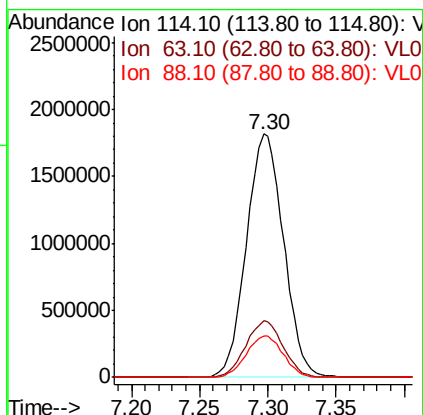
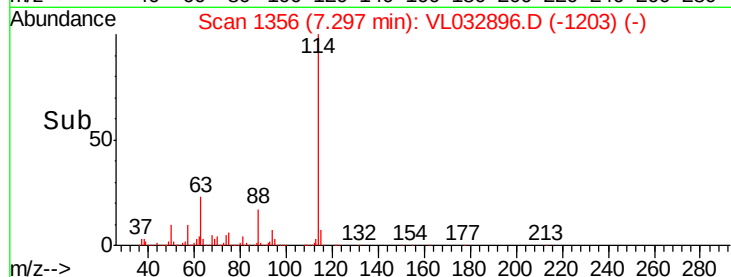
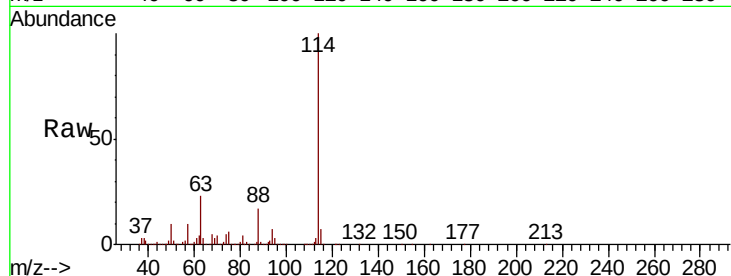
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VL032896.D
 Acq: 5 Dec 2018 3:57

Instrument :
 MSVOA_L
 ClientSampleID :
 VSV-4

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.4	20.9	31.3
88	17.0	14.4	21.6

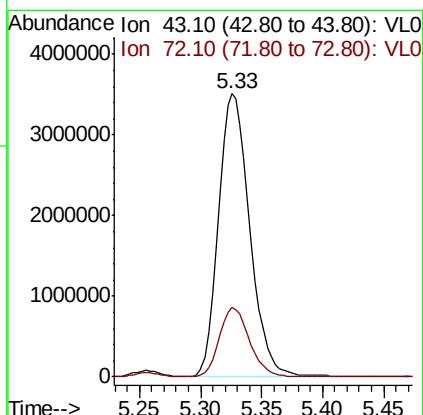
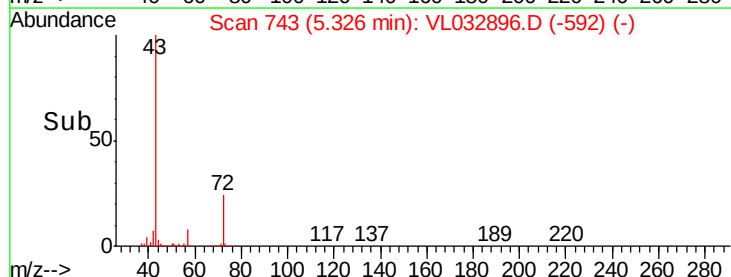
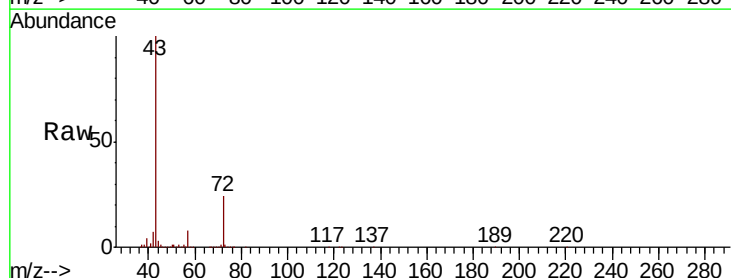
Manual Integrations
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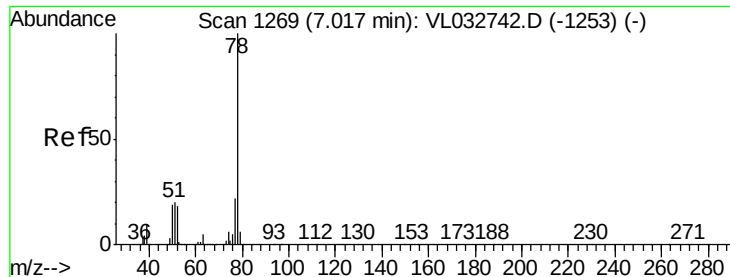
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#34
 2-Butanone
 Concen: 35.451 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: VL032896.D
 Acq: 5 Dec 2018 3:57

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.4	27.6





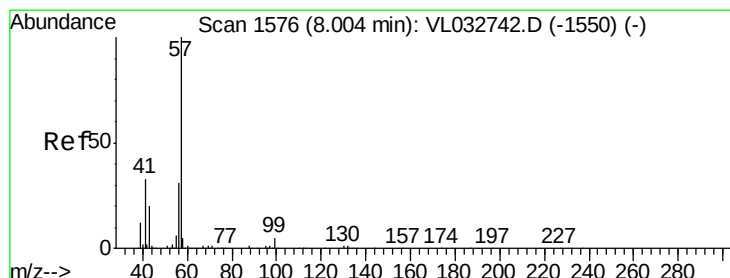
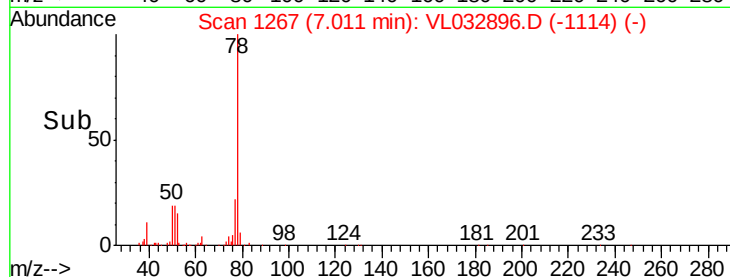
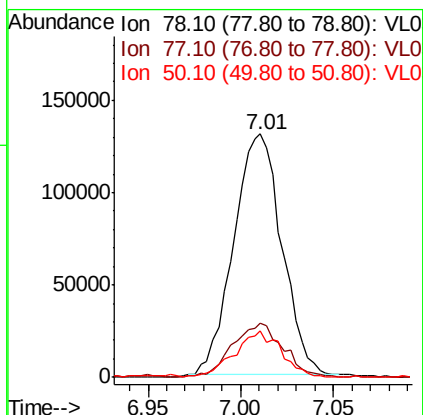
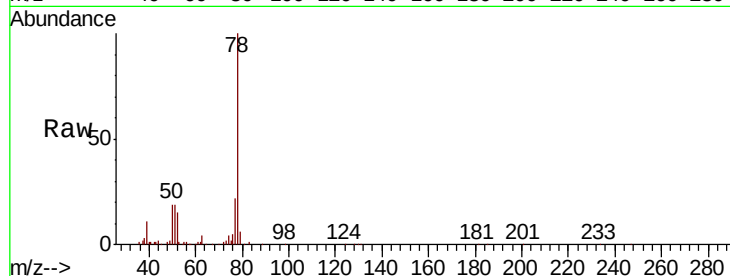
#36
Benzene
Concen: 0.860 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.01 min
Lab File: VL032896.D
Acq: 5 Dec 2018 3:57

Instrument :
MSVOA_L
ClientSampled :
VSV-4

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.7	17.8	26.8
50	18.9	15.4	23.0

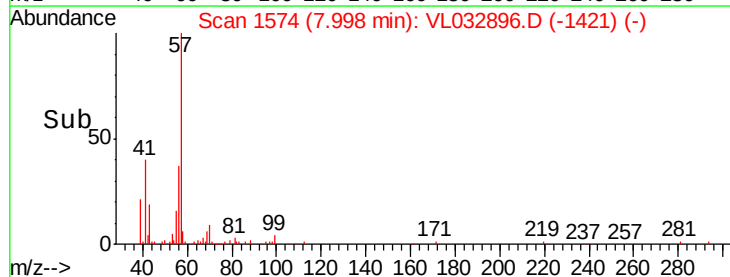
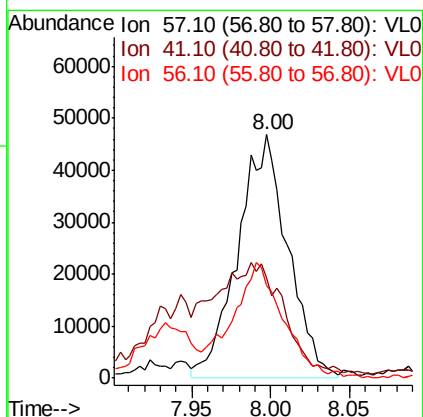
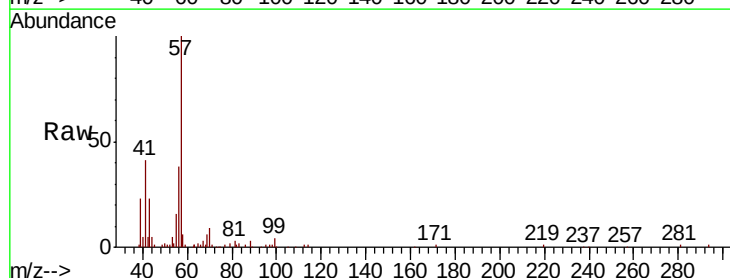
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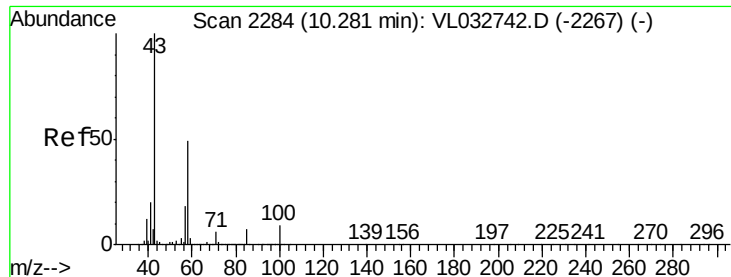
MMDadoda
12/10/2018 1:01:41 PM



#44
2,2,4-Trimethylpentane
Concen: 0.227 ppbv m
RT: 8.00 min Scan# 1574
Delta R.T. -0.01 min
Lab File: VL032896.D
Acq: 5 Dec 2018 3:57

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.6	39.8#
56	0.0	24.8	37.2#





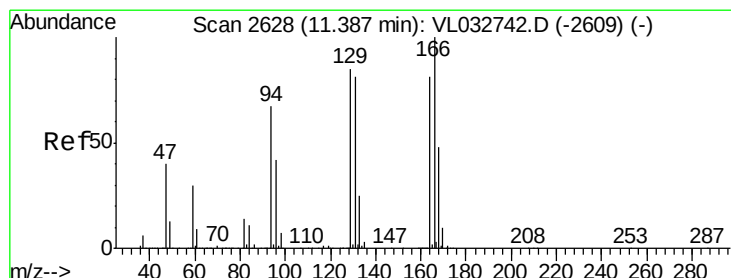
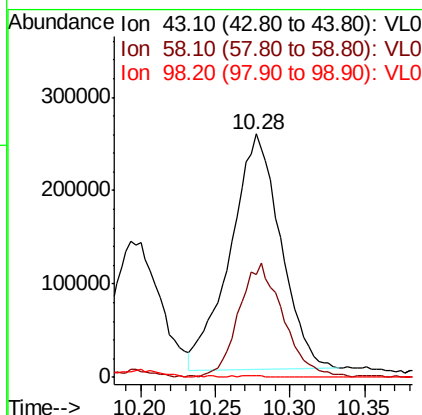
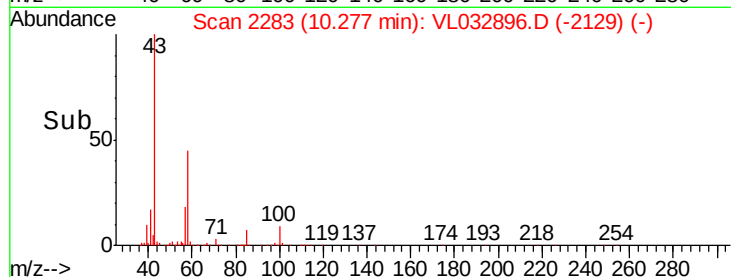
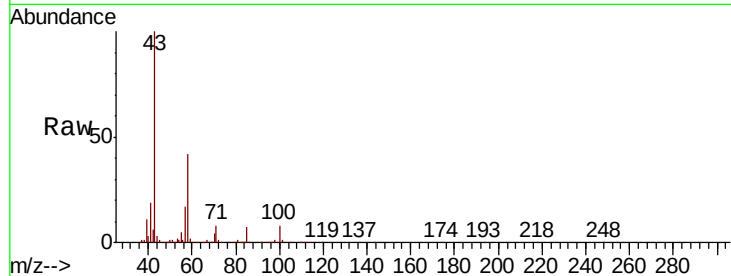
#51
2-Hexanone
Concen: 3.302 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. -0.00 min
Lab File: VL032896.D
Acq: 5 Dec 2018 3:57

Instrument :
MSVOA_L
ClientSampled :
VSV-4

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.2	38.9	58.3
98	0.8	0.2	0.4

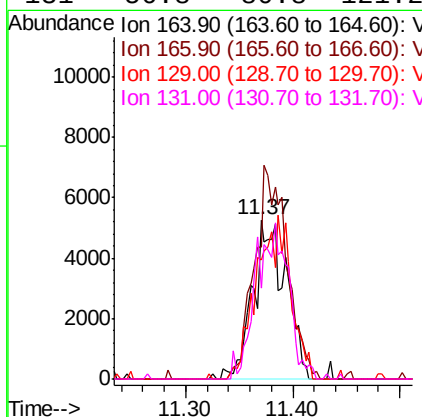
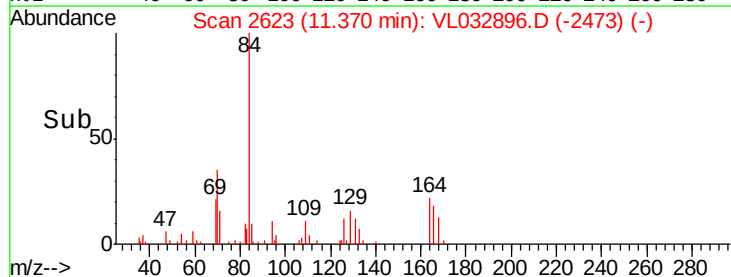
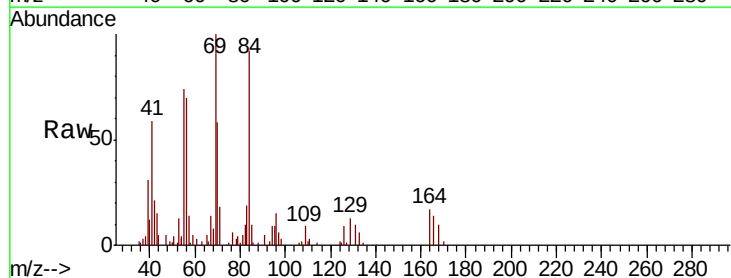
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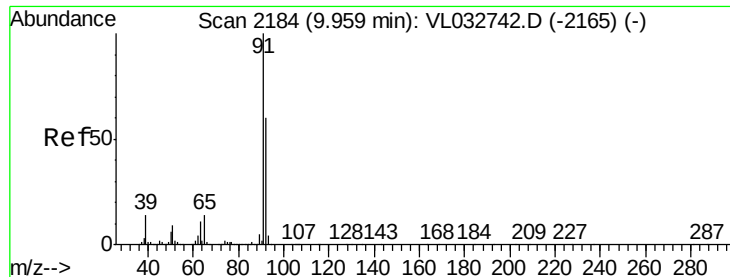
MMDadoda
12/10/2018 1:01:41 PM



#52
Tetrachloroethene
Concen: 0.120 ppbv m
RT: 11.37 min Scan# 2623
Delta R.T. -0.02 min
Lab File: VL032896.D
Acq: 5 Dec 2018 3:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	83.3	99.3	148.9
129	74.8	83.9	125.9
131	56.8	80.8	121.2





#53

Toluene

Concen: 1.098 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032896.D

Acq: 5 Dec 2018 3:57

Instrument :

MSVOA_L

ClientSampled :

VSV-4

Tot Ion: 91 Resp: 313054

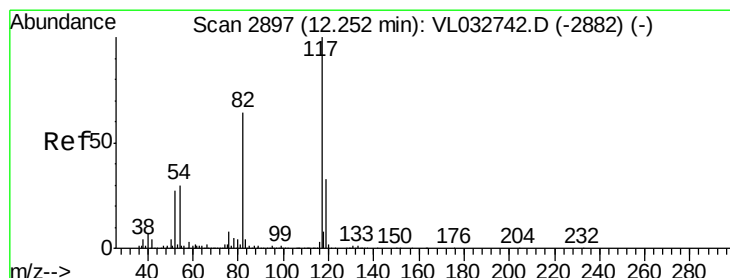
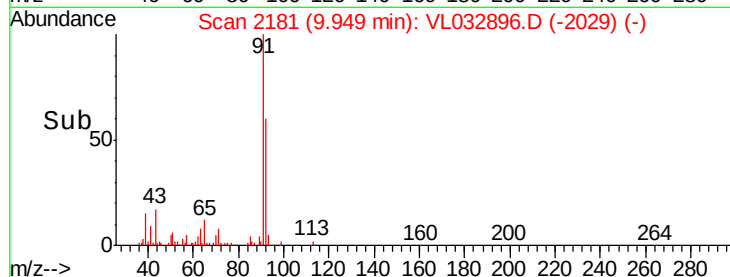
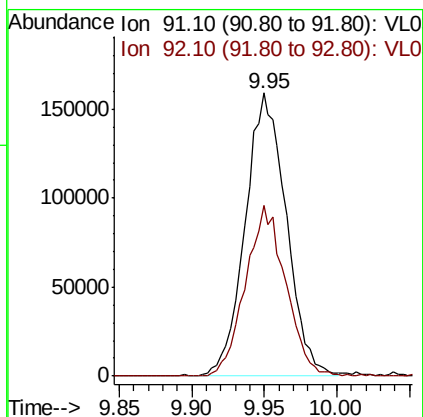
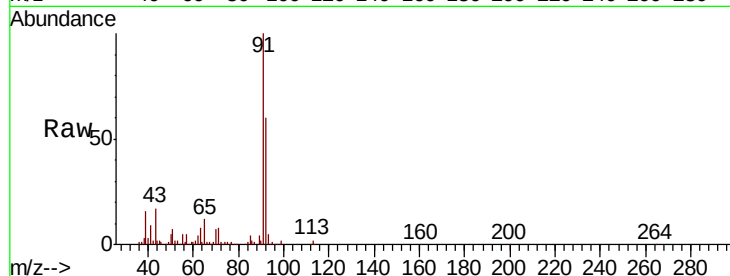
Ion Ratio Lower Upper

91 100

92 59.4 47.9 71.9

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032896.D

Acq: 5 Dec 2018 3:57

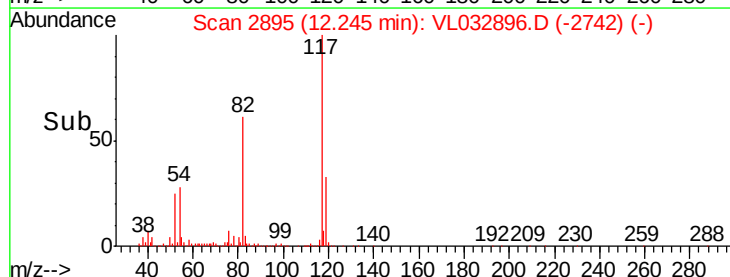
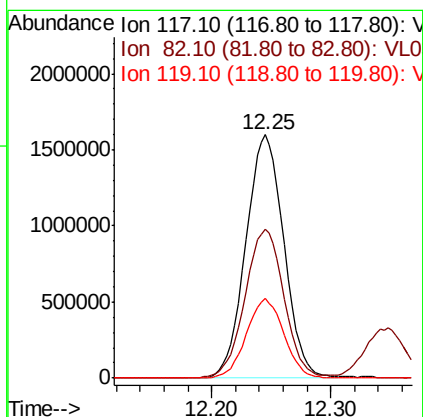
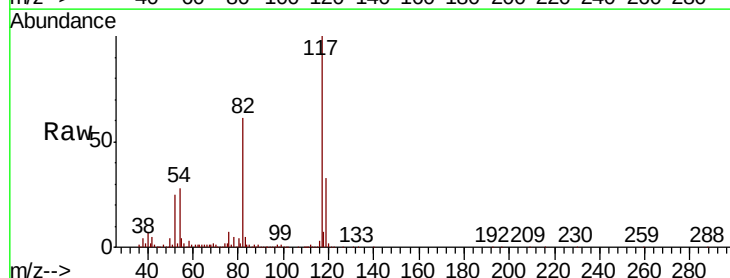
Tgt Ion: 117 Resp: 3527608

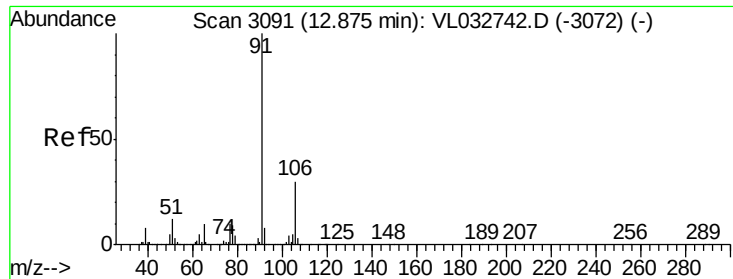
Ion Ratio Lower Upper

117 100

82 62.9 51.0 76.6

119 32.4 28.0 42.0





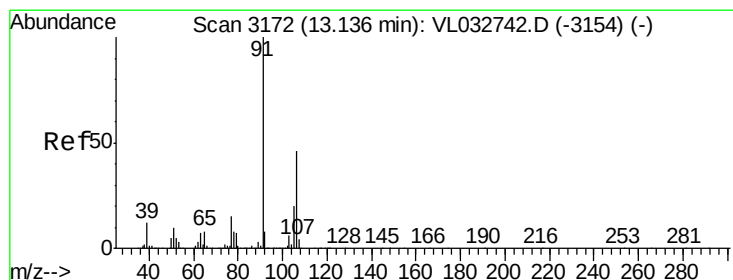
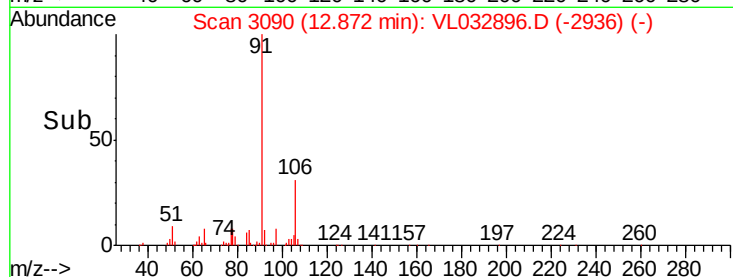
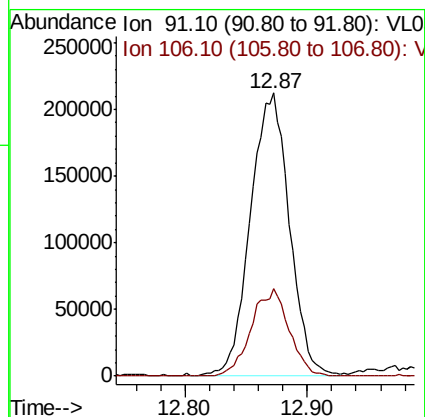
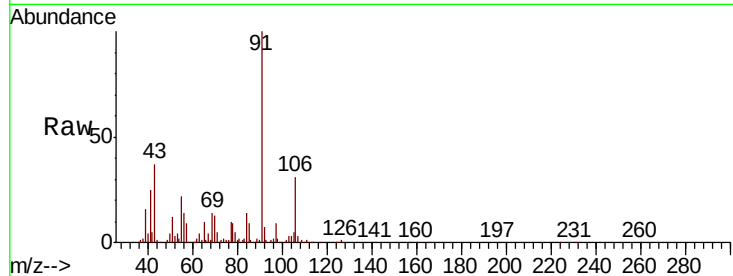
#58
Ethyl Benzene
Concen: 1.094 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL032896.D
Acq: 5 Dec 2018 3:57

Instrument :
MSVOA_L
ClientSampled :
VSV-4

Tot Ion: 91 Resp: 464629
Ion Ratio Lower Upper
91 100
106 30.9 23.6 35.4

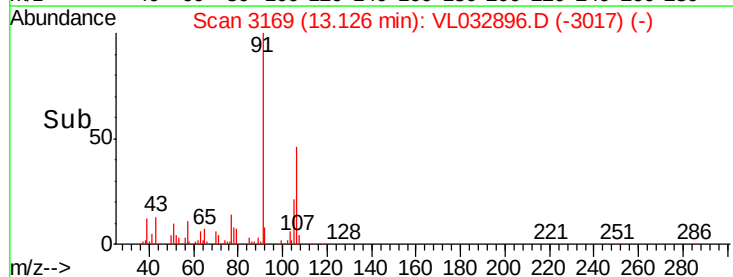
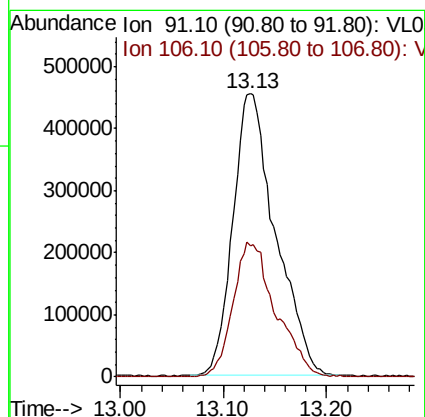
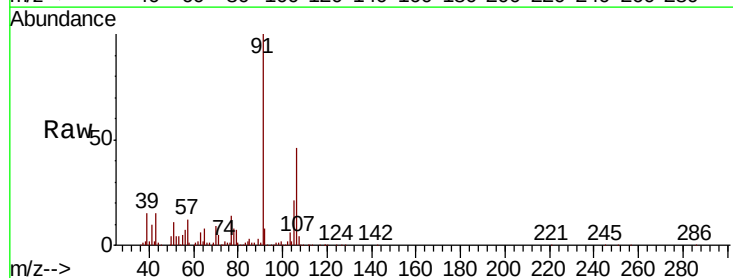
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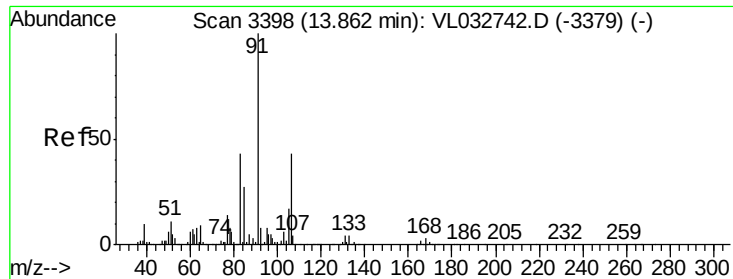
MMDadoda
12/10/2018 1:01:41 PM



#59
m/p-Xylene
Concen: 3.466 ppbv
RT: 13.13 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL032896.D
Acq: 5 Dec 2018 3:57

Tgt Ion: 91 Resp: 1310074
Ion Ratio Lower Upper
91 100
106 47.7 36.1 54.1





#60

o-Xylene

Concen: 1.460 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. -0.01 min

Lab File: VL032896.D

Acq: 5 Dec 2018 3:57

Instrument :

MSVOA_L

ClientSampled :

VSV-4

Tot Ion: 91 Resp: 554846

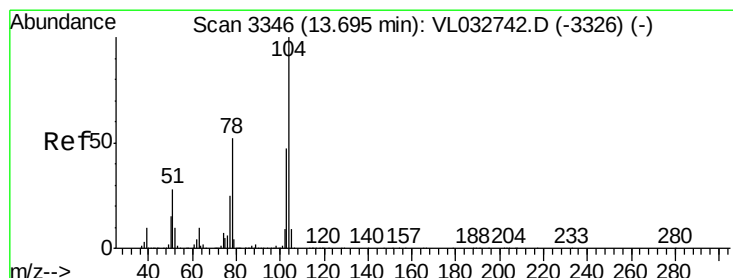
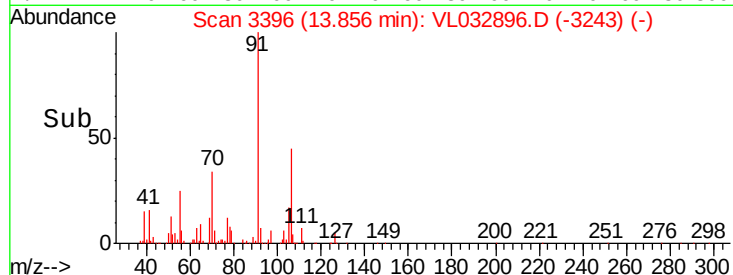
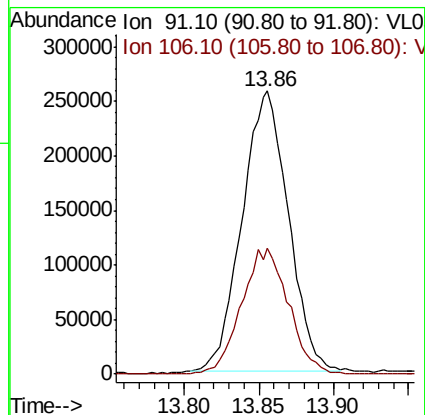
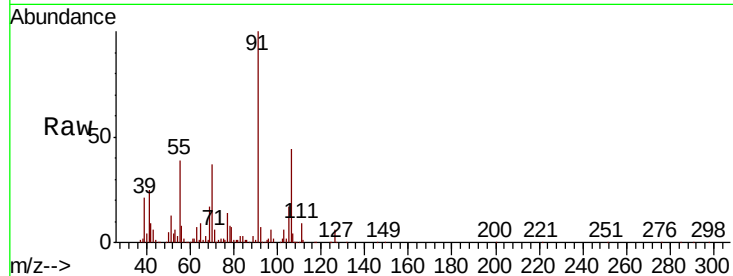
Ion Ratio Lower Upper

91 100

106 45.4 21.9 65.7

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#61

Styrene

Concen: 0.182 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.01 min

Lab File: VL032896.D

Acq: 5 Dec 2018 3:57

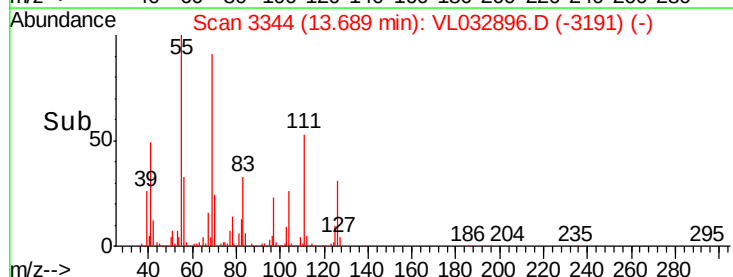
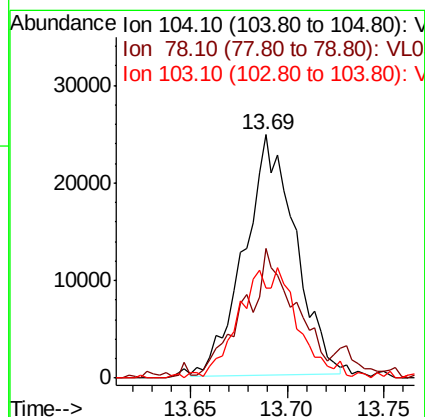
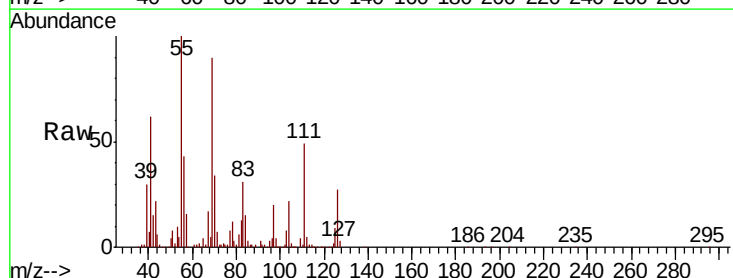
Tgt Ion: 104 Resp: 45103

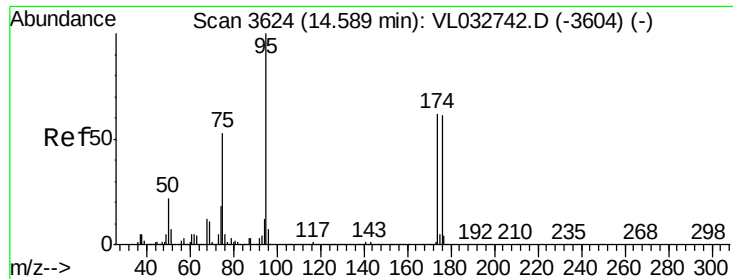
Ion Ratio Lower Upper

104 100

78 66.2 42.2 63.4#

103 54.2 38.2 57.2





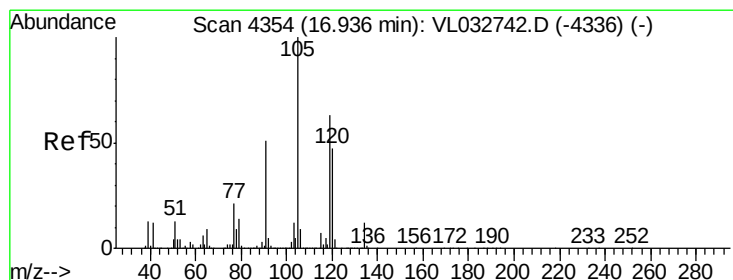
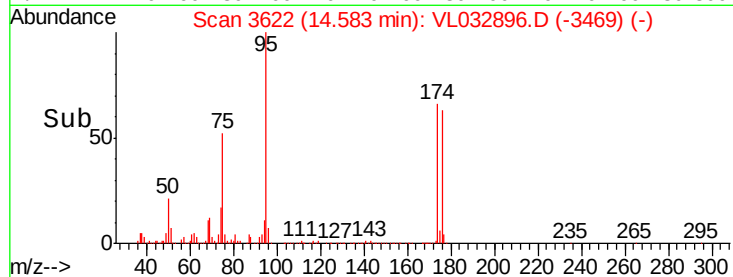
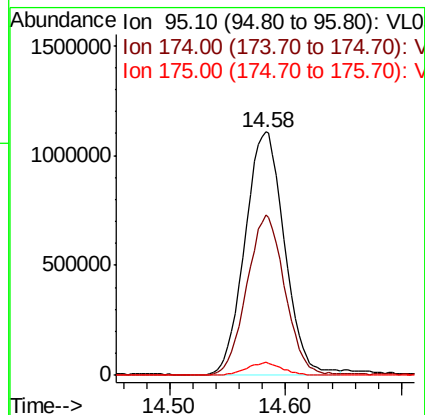
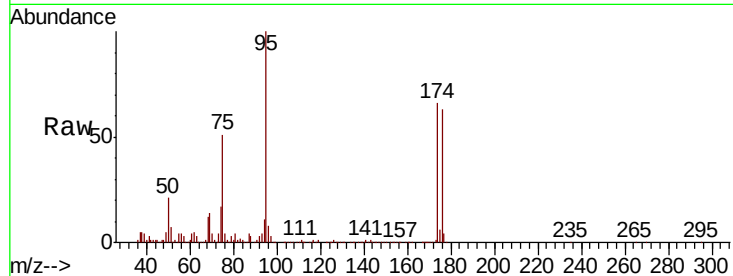
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.941 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL032896.D
 Acq: 5 Dec 2018 3:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSV-4

Tot Ion: 95 Resp: 2622871
 Ion Ratio Lower Upper
 95 100
 174 64.7 50.7 76.1
 175 4.9 3.8 5.6

Manual Integrations
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 12/10/2018 1:01:41 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.187 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032896.D
 Acq: 5 Dec 2018 3:57

Tgt Ion: 105 Resp: 81519
 Ion Ratio Lower Upper
 105 100
 120 45.3 37.6 56.4
 91 11.0 42.5 63.7#
 77 20.0 17.4 26.2

