

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032365.D
 Acq On : 16 Aug 2018 00:30
 Operator : SY/AP
 Sample : J4457-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS08-MIVIDL

Manual Integrations
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 8/17/2018 2:06:46 PM

Quant Time: Aug 16 07:24:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 16 07:24:12 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	2047308	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	4246881	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	4134079	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.64	95	3220382	10.21	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.08	41	502506m	6.19	ppbv	
10) Heptane	8.31	43	3004359	12.29	ppbv	99
13) Ethanol	3.69	45	376159	18.04	ppbv	98
15) Acetone	3.95	43	589864m	3.03	ppbv	
19) Isopropyl Alcohol	4.07	45	242385	1.85	ppbv #	1
20) Methylene Chloride	4.45	84	21601m	0.29	ppbv	
26) Hexane	5.84	57	3031455	16.31	ppbv #	43
27) Carbon Disulfide	4.67	76	68113	0.39	ppbv #	75
30) Cyclohexane	7.31	84	2444906	17.27	ppbv	97
34) 2-Butanone	5.38	43	268013	0.93	ppbv	97
36) Benzene	7.06	78	1012253	2.81	ppbv	98
52) Tetrachloroethene	11.46	164	10423000	98.16	ppbv	88
53) Toluene	10.01	91	6777544	17.17	ppbv	99
58) Ethyl Benzene	12.94	91	2301775	4.63	ppbv	96
59) m/p-Xylene	13.19	91	5214411	12.34	ppbv	99
60) o-Xylene	13.92	91	1885770	4.54	ppbv	100
61) Styrene	13.76	104	49952m	0.17	ppbv	
62) Isopropylbenzene	14.90	105	251523m	0.43	ppbv	
64) n-propylbenzene	15.79	120	96523m	0.63	ppbv	
69) p-Isopropyltoluene	17.88	119	90417	0.16	ppbv	95
70) n-Butylbenzene	18.79	91	174170	0.28	ppbv #	46
72) 4-Ethyltoluene	16.07	105	789913	1.71	ppbv	100
73) 1,3,5-Trimethylbenzene	16.22	105	761311	1.71	ppbv	99
74) 1,2,4-Trimethylbenzene	16.99	105	2044898	4.31	ppbv #	70

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

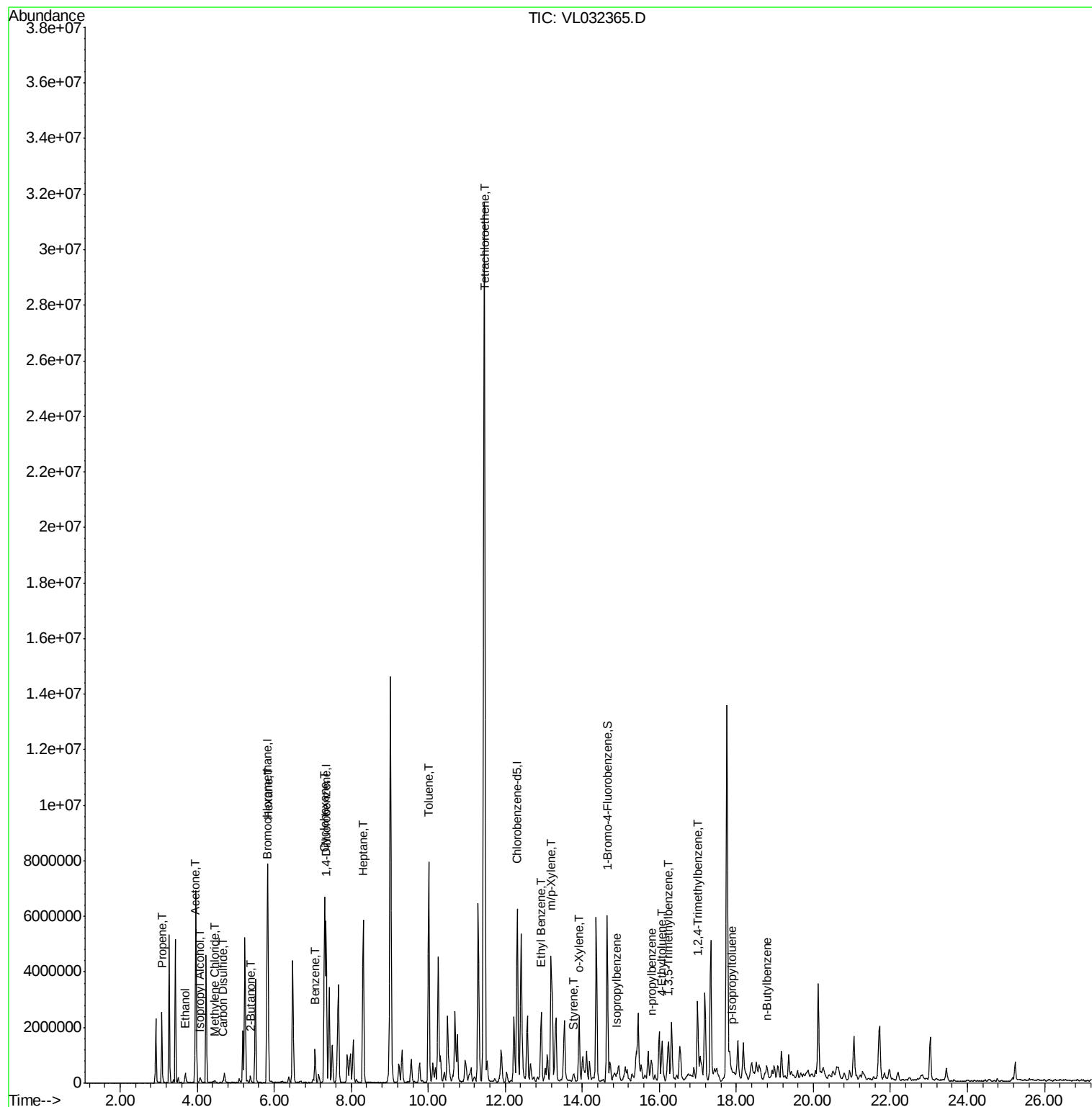
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032365.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

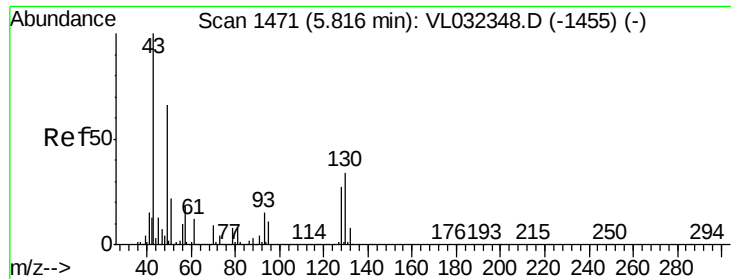
Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDL

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Quant Time: Aug 16 07:24:12 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.81 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDL

Tot Ion: 49 Resp: 2047308

Ion Ratio Lower Upper

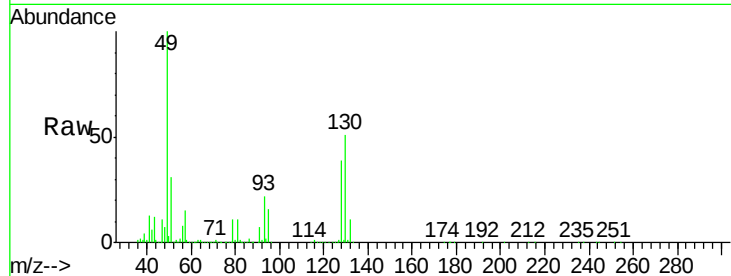
49 100

128 40.9 20.5 61.6

130 52.7 26.2 78.5

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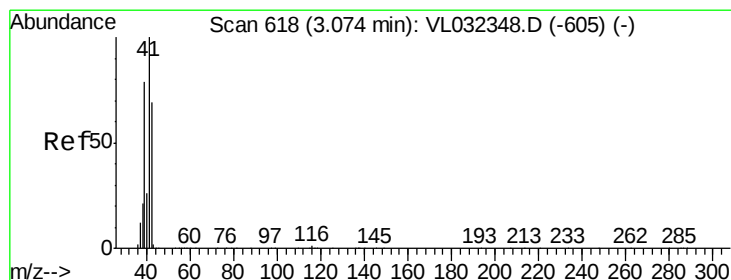
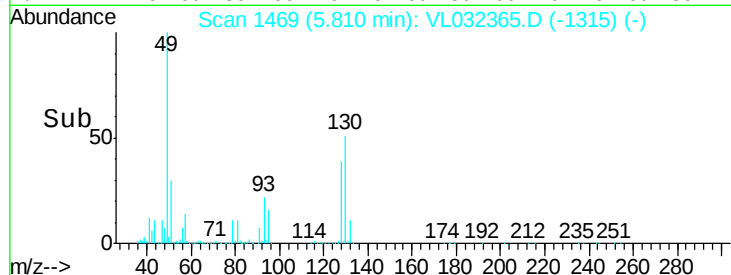
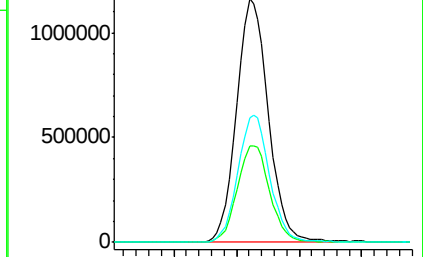
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 6.19 ppbv m

RT: 3.08 min Scan# 621

Delta R.T. 0.01 min

Lab File: VL032365.D

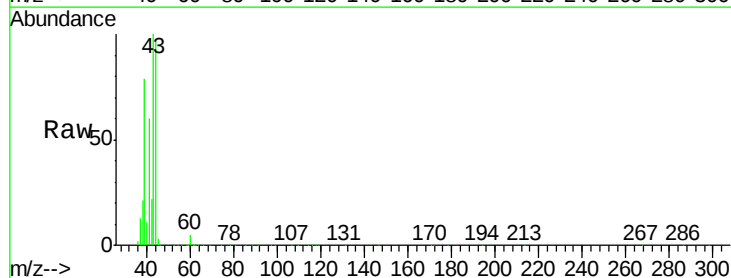
Acq: 16 Aug 2018 00:30

Tgt Ion: 41 Resp: 502506

Ion Ratio Lower Upper

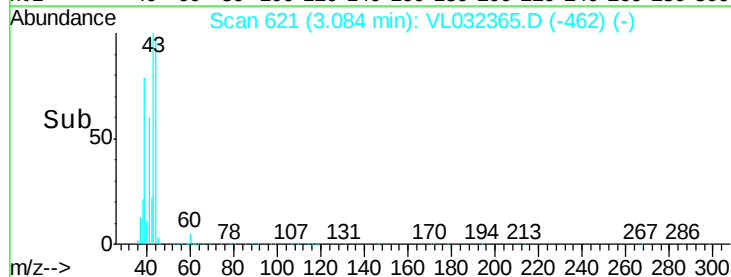
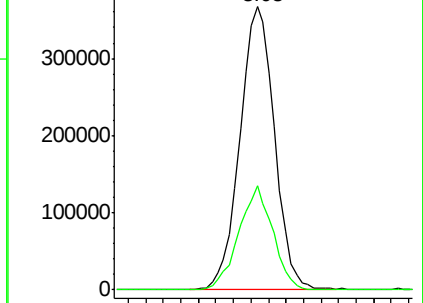
41 100

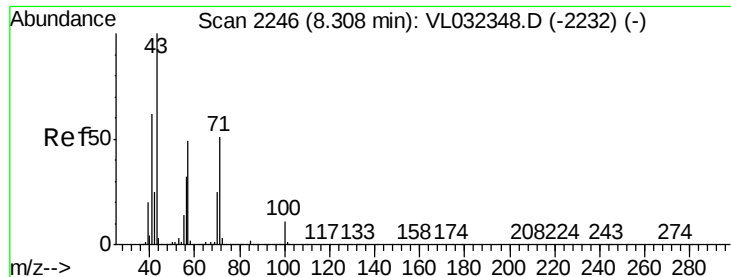
42 205.8 55.9 83.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 12.29 ppbv

RT: 8.31 min Scan# 2247

Delta R.T. 0.00 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDL

Tot Ion: 43 Resp: 3004359

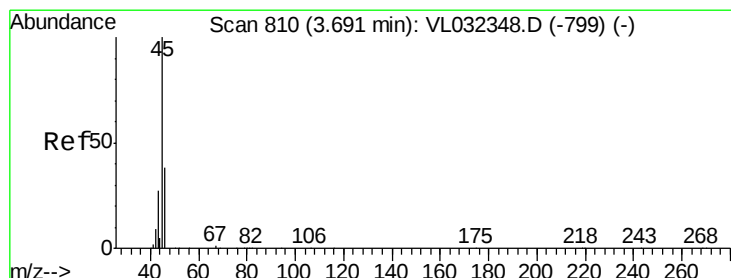
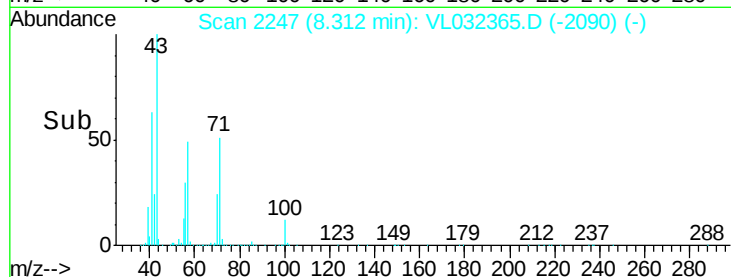
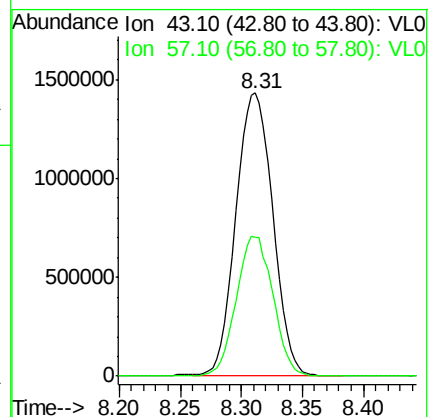
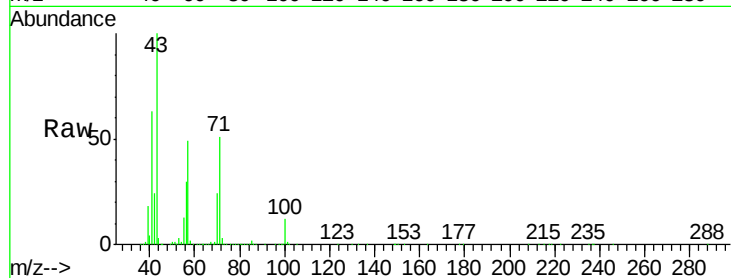
Ion Ratio Lower Upper

43 100

57 48.9 39.5 59.3

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#13

Ethanol

Concen: 18.04 ppbv

RT: 3.69 min Scan# 809

Delta R.T. -0.00 min

Lab File: VL032365.D

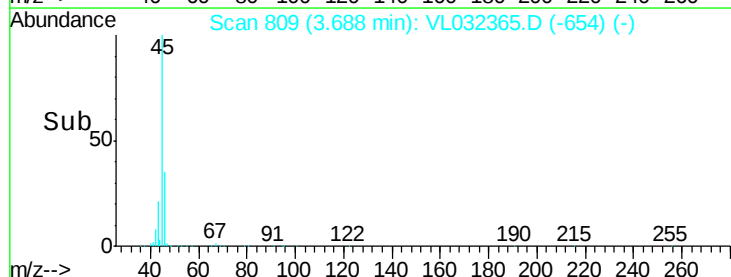
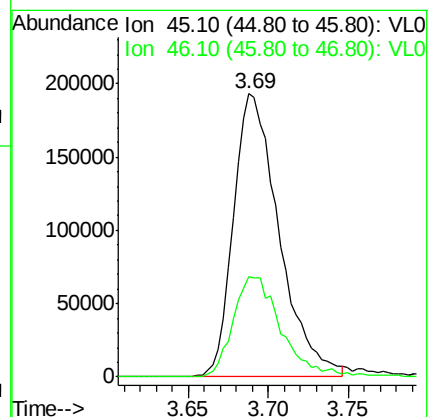
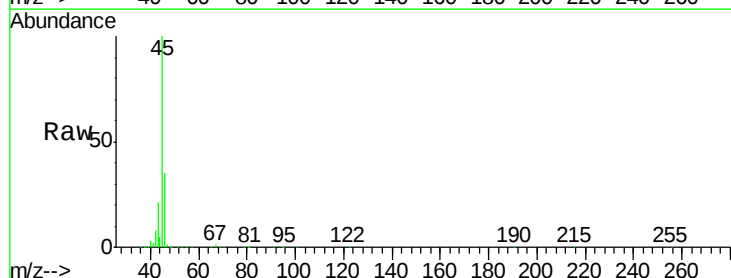
Acq: 16 Aug 2018 00:30

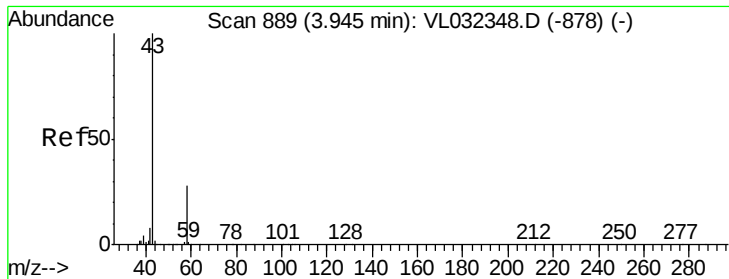
Tgt Ion: 45 Resp: 376159

Ion Ratio Lower Upper

45 100

46 37.6 15.6 62.4





#15

Acetone

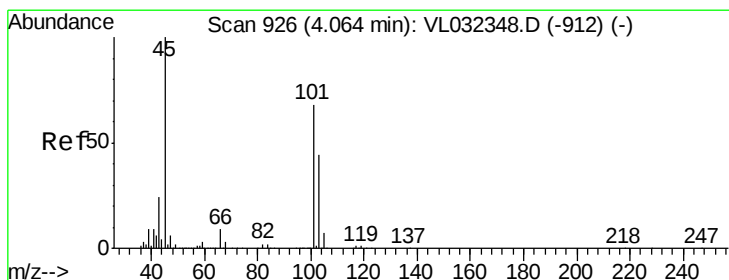
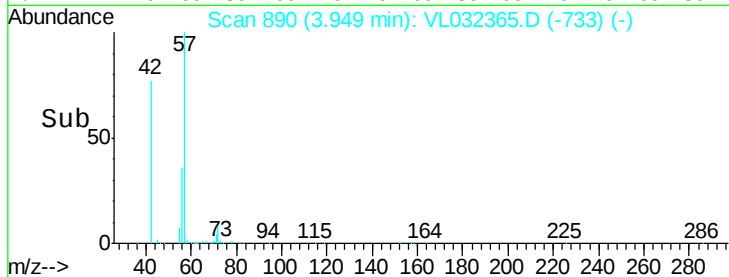
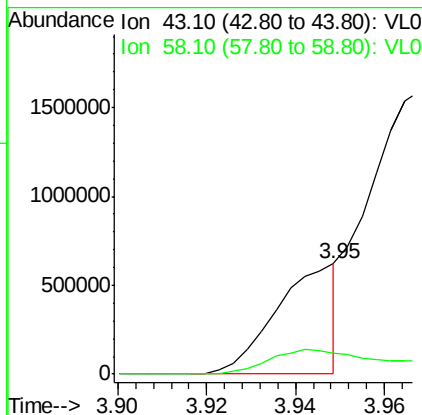
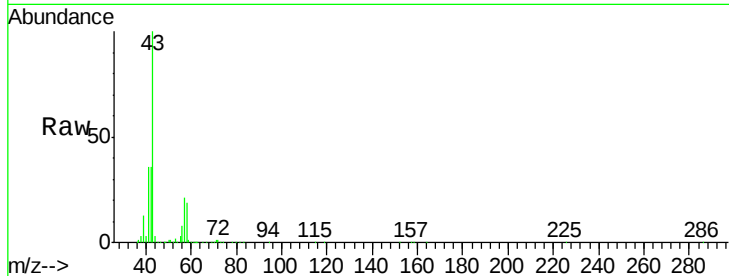
Concen: 3.03 ppbv m
RT: 3.95 min Scan# 890
Delta R.T. 0.00 min
Lab File: VL032365.D
Acq: 16 Aug 2018 00:30

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDL

Tot Ion: 43 Resp: 589864
Ion Ratio Lower Upper
43 100
58 47.7 22.4 33.6#

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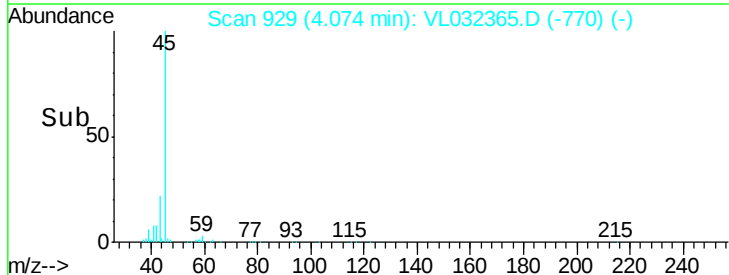
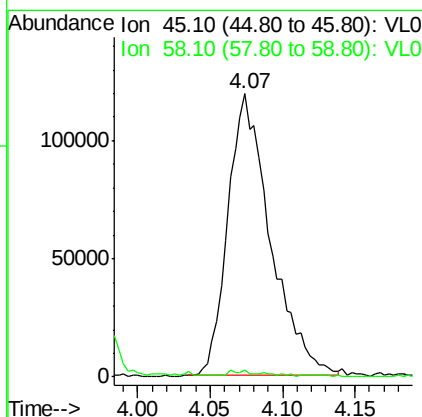
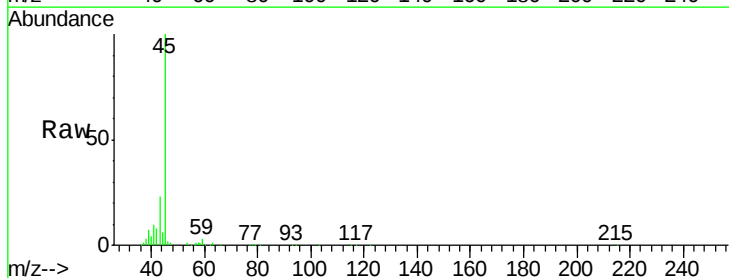


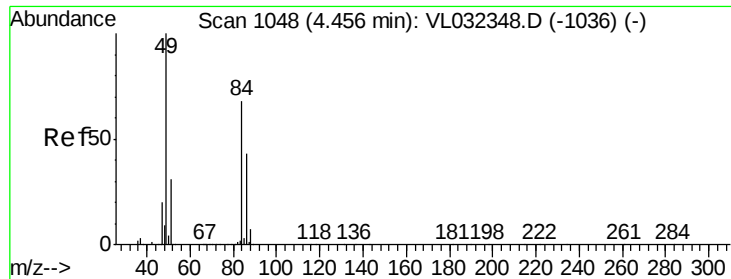
#19

Isopropyl Alcohol

Concen: 1.85 ppbv
RT: 4.07 min Scan# 929
Delta R.T. 0.01 min
Lab File: VL032365.D
Acq: 16 Aug 2018 00:30

Tgt Ion: 45 Resp: 242385
Ion Ratio Lower Upper
45 100
58 115.6 1.4 2.0#





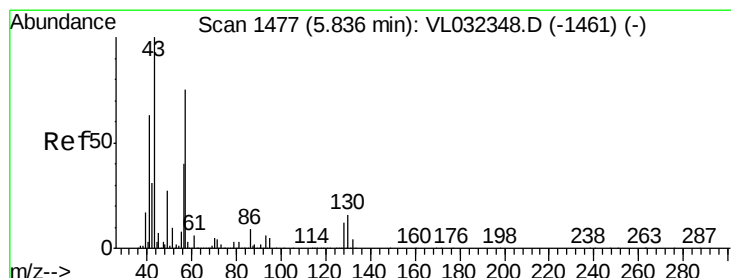
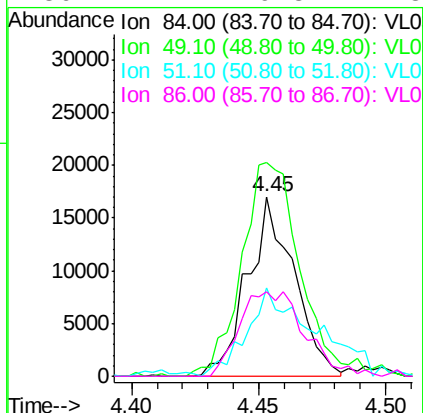
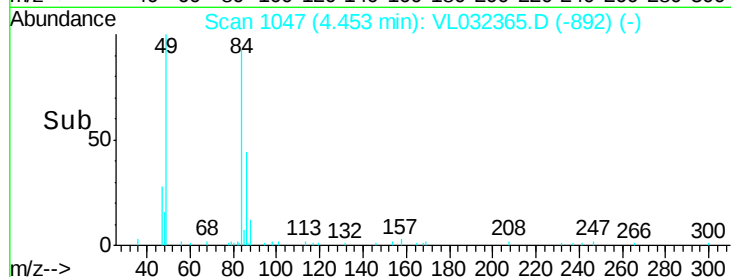
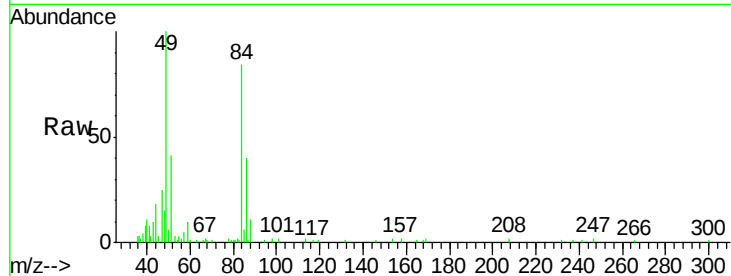
#20
Methvlene Chloride
Concen: 0.29 ppbv m
RT: 4.45 min Scan# 1047
Delta R.T. -0.00 min
Lab File: VL032365.D
Acq: 16 Aug 2018 00:30

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDL

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	118.8	117.3	175.9	
51	48.9	36.6	55.0	
86	47.2	49.8	74.8#	

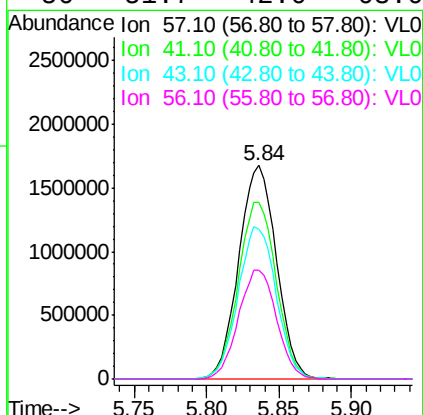
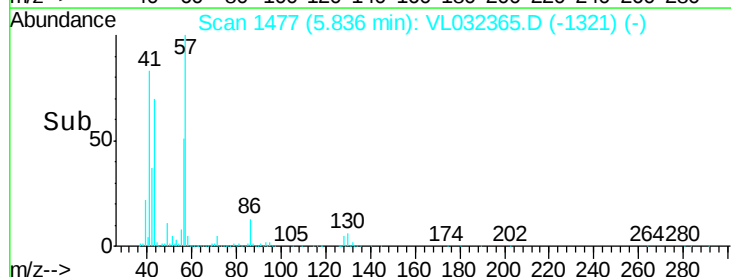
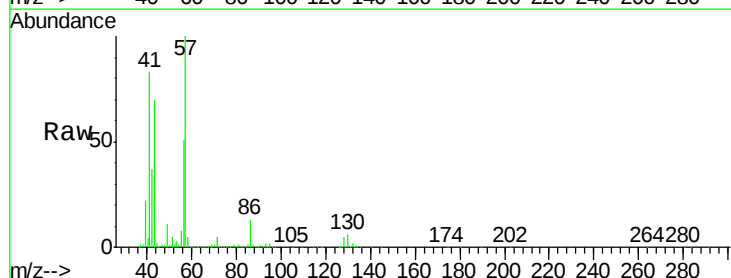
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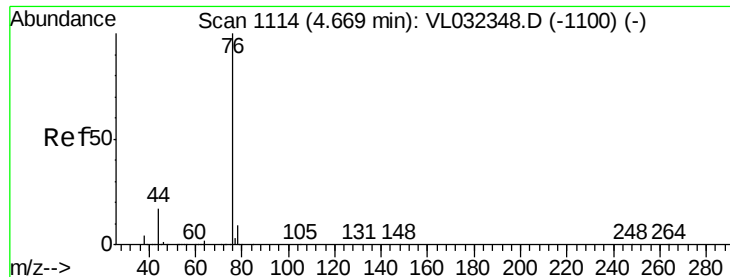
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#26
Hexane
Concen: 16.31 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VL032365.D
Acq: 16 Aug 2018 00:30

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	83.8	68.0	102.0	
43	72.4	175.3	262.9#	
56	51.7	42.0	63.0	





#27

Carbon Disulfide

Concen: 0.39 ppbv

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

Instrument :

MSVOA_L

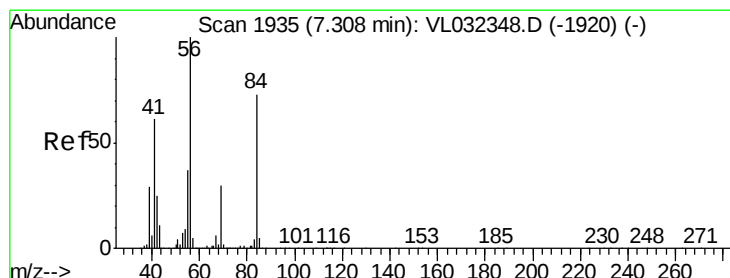
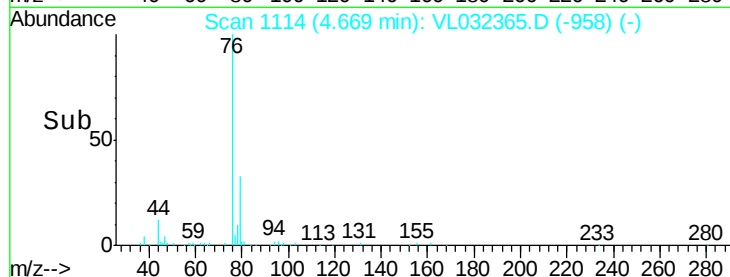
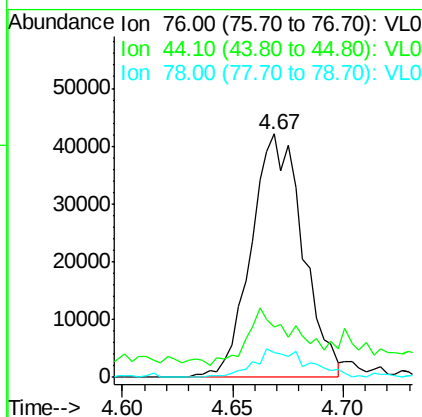
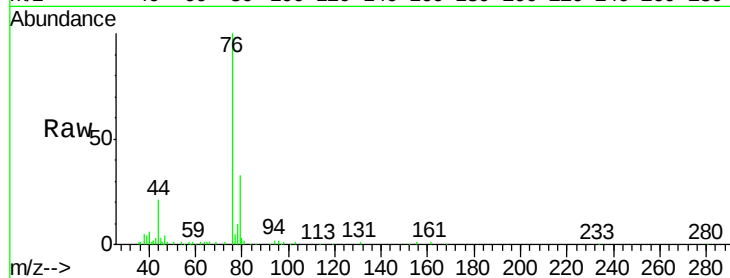
ClientSampleId :

SS08-MIVIDL

Tot Ion:	76	Resp:	68113
Ion Ratio	Lower	Upper	
76	100		
44	32.7	14.4	21.6#
78	12.9	7.4	11.0#

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#30

Cyclohexane

Concen: 17.27 ppbv

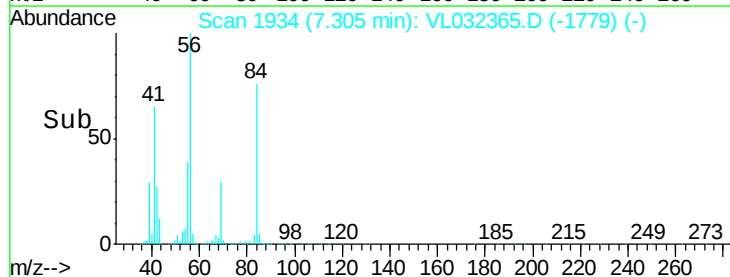
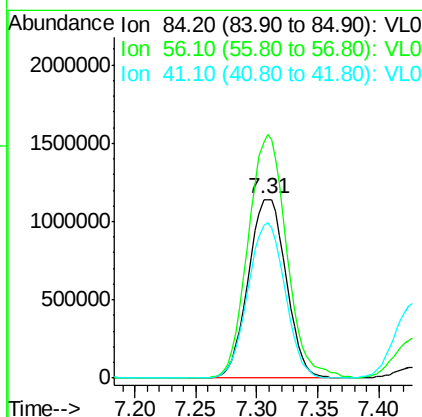
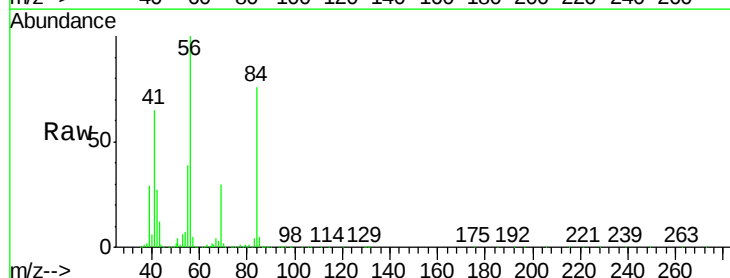
RT: 7.31 min Scan# 1934

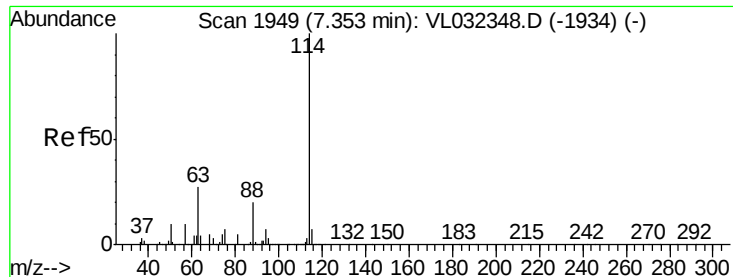
Delta R.T. -0.00 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

Tgt Ion:	84	Resp:	2444906
Ion Ratio	Lower	Upper	
84	100		
56	138.5	115.7	173.5
41	85.3	67.9	101.9





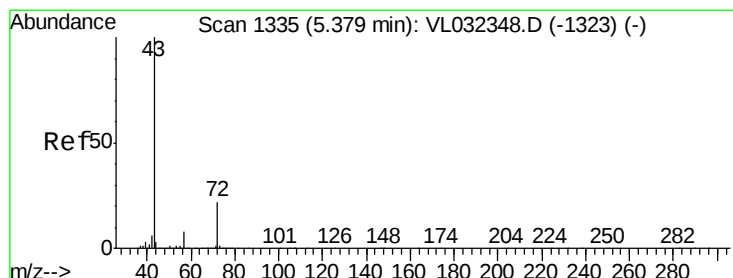
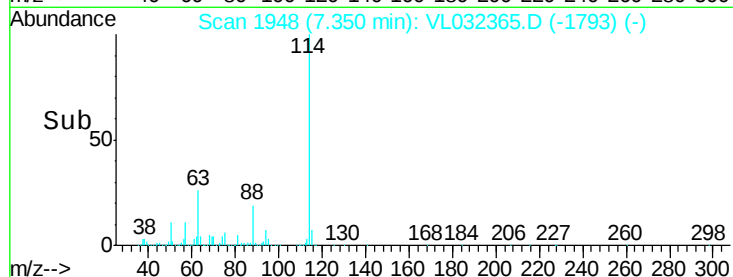
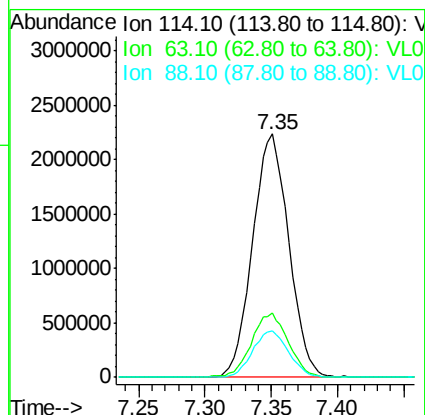
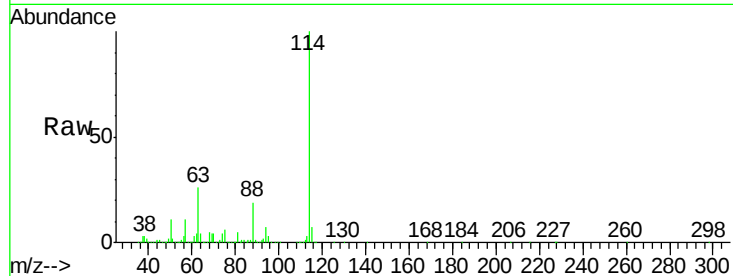
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VL032365.D
 Acq: 16 Aug 2018 00:30

Instrument :
 MSVOA_L
 ClientSampleId :
 SS08-MIVIDL

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.0	22.0	33.0
88	19.0	15.3	22.9

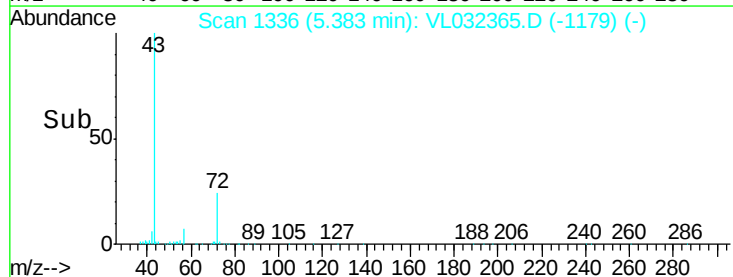
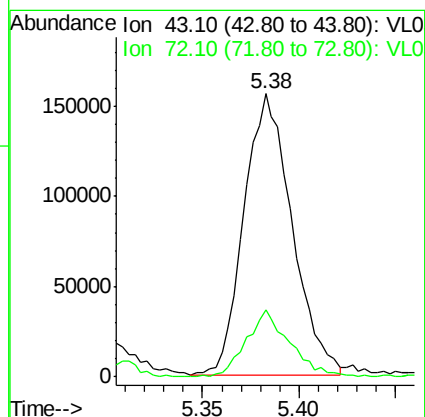
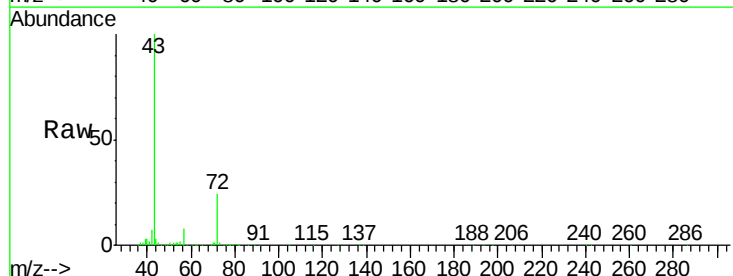
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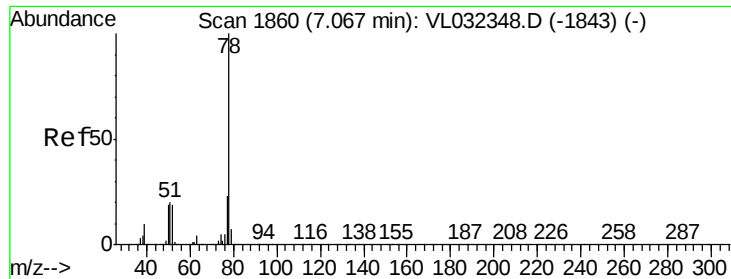
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#34
 2-Butanone
 Concen: 0.93 ppbv
 RT: 5.38 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VL032365.D
 Acq: 16 Aug 2018 00:30

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.1	17.9	26.9





#36

Benzene

Concen: 2.81 ppbv

RT: 7.06 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

Instrument :

MSVOA_L

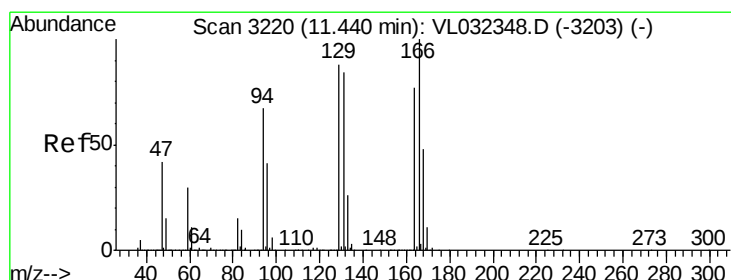
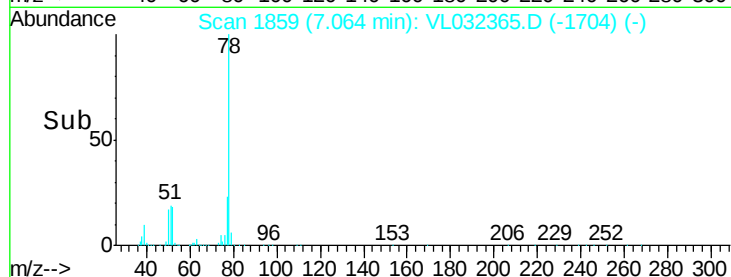
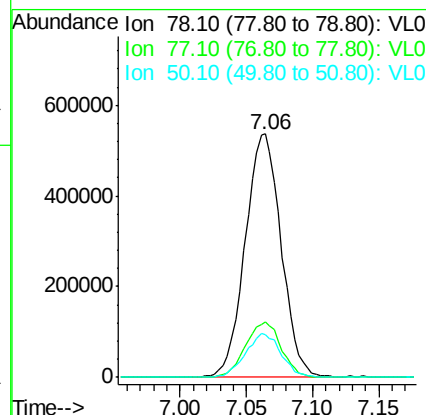
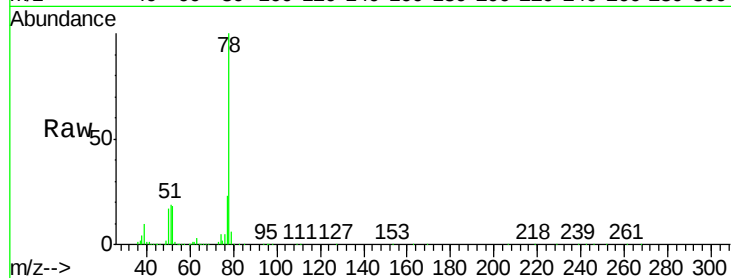
ClientSampleId :

SS08-MIVIDL

Tot Ion:	78	Resp:	1012253
Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.0	27.0
50	17.3	15.1	22.7

Manual Integrations
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#52

Tetrachloroethene

Concen: 98.16 ppbv

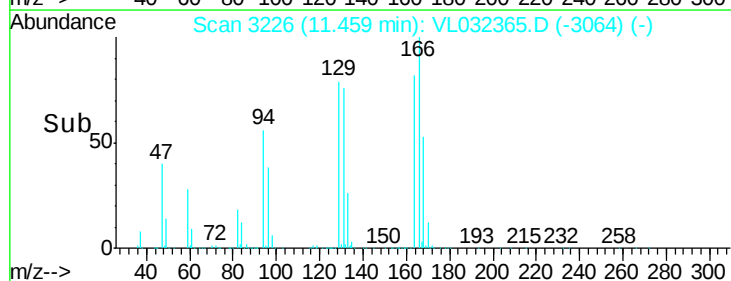
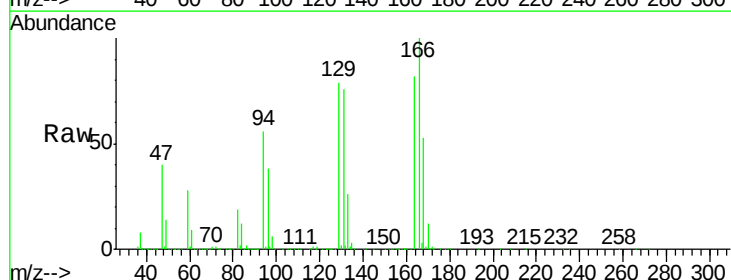
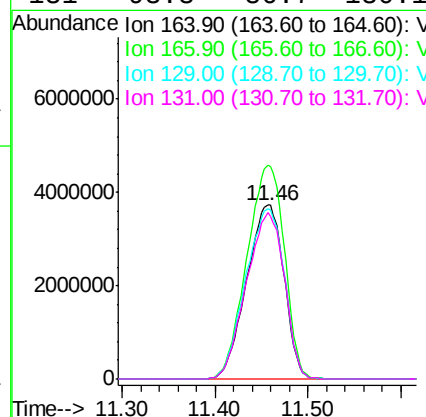
RT: 11.46 min Scan# 3226

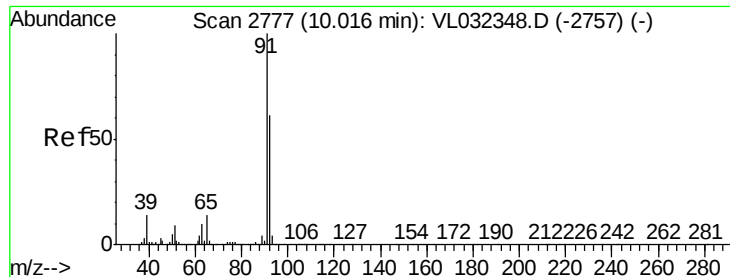
Delta R.T. 0.02 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

Tgt Ion:	164	Resp:	10423000
Ion	Ratio	Lower	Upper
164	100		
166	122.4	103.5	155.3
129	97.1	90.9	136.3
131	93.3	86.7	130.1





#53

Toluene

Concen: 17.17 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDL

Tot Ion: 91 Resp: 6777544

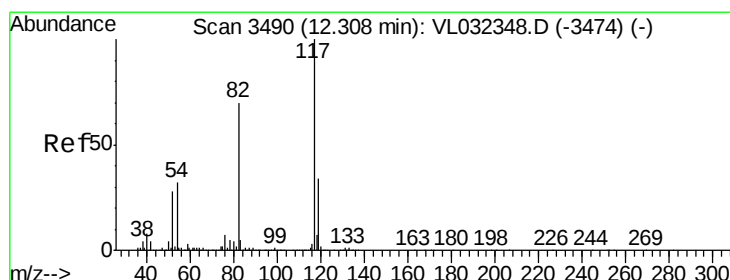
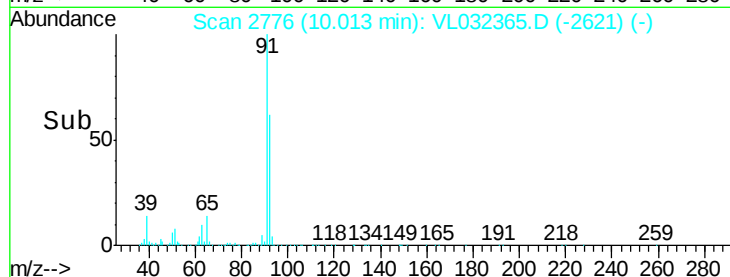
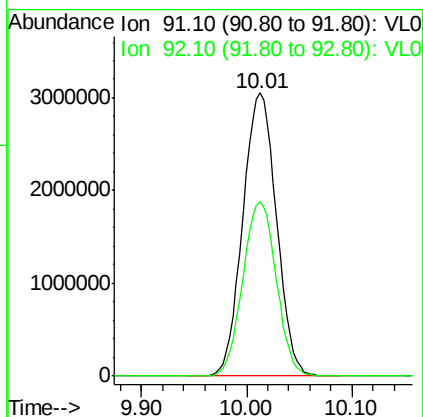
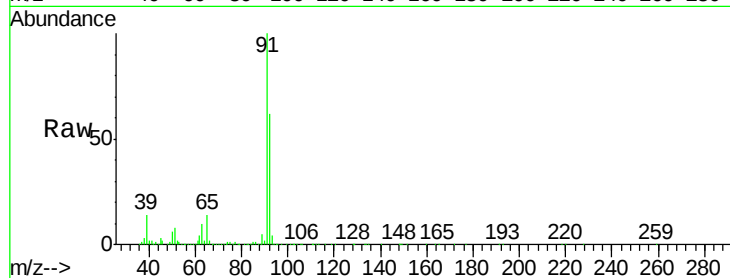
Ion Ratio Lower Upper

91 100

92 61.4 48.7 73.1

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.31 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

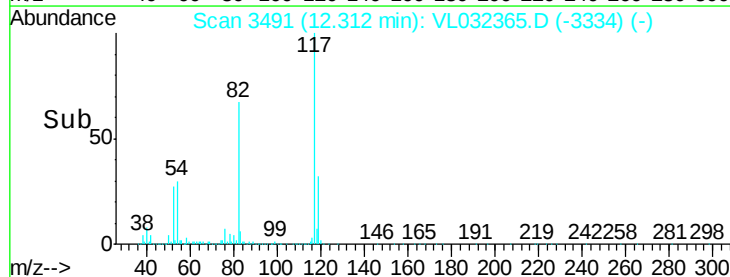
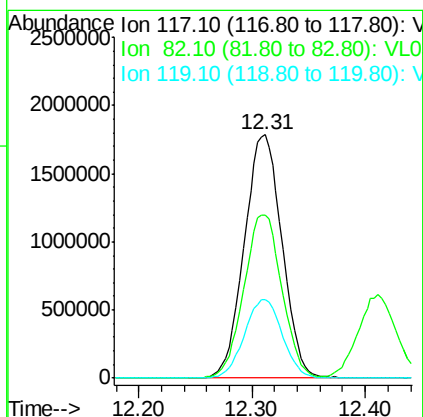
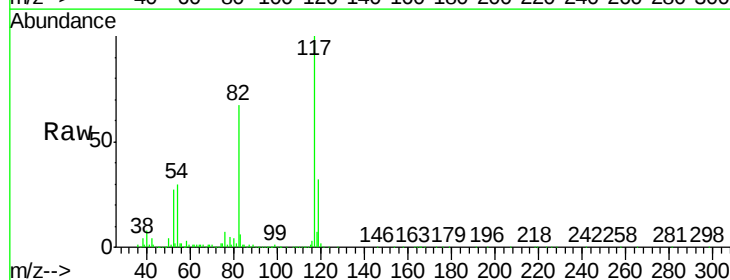
Tgt Ion: 117 Resp: 4134079

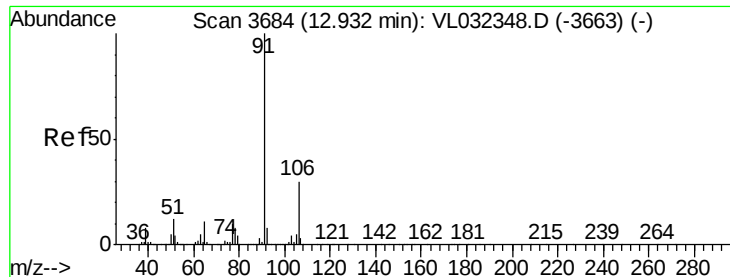
Ion Ratio Lower Upper

117 100

82 67.7 55.1 82.7

119 32.6 46.0 69.0#





#58

Ethyl Benzene

Concen: 4.63 ppbv

RT: 12.94 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

Instrument :

MSVOA_L

ClientSampleID :

SS08-MIVIDL

Tot Ion: 91 Resp: 2301775

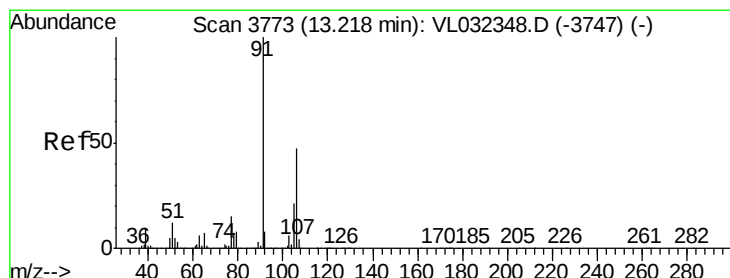
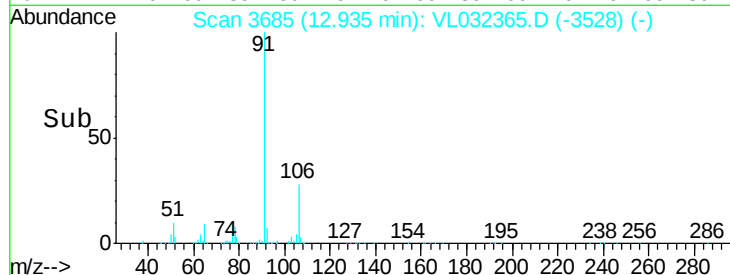
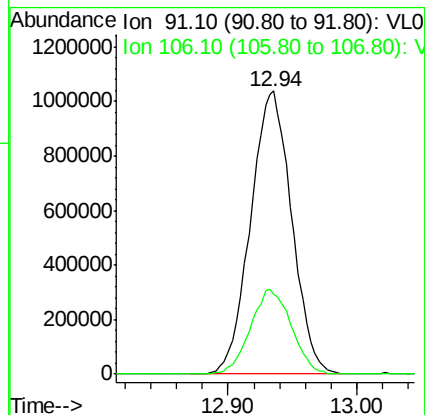
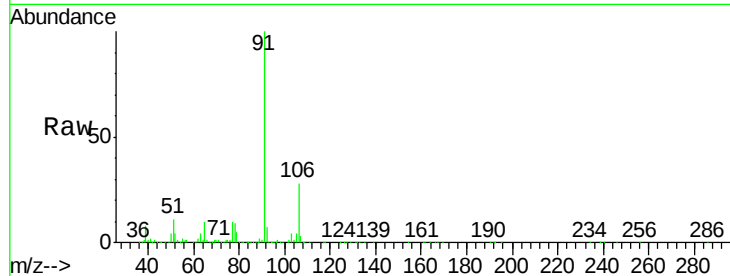
Ion Ratio Lower Upper

91 100

106 28.1 24.3 36.5

Manual Integrations
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#59

m/p-Xylene

Concen: 12.34 ppbv

RT: 13.19 min Scan# 3764

Delta R.T. -0.03 min

Lab File: VL032365.D

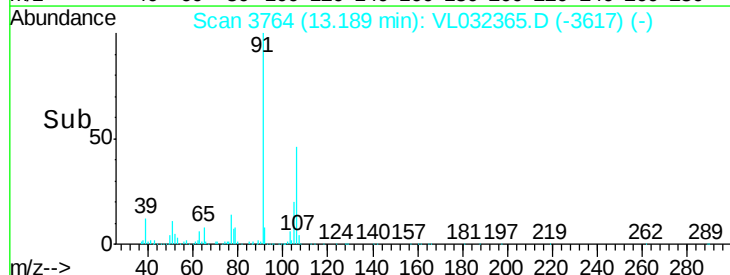
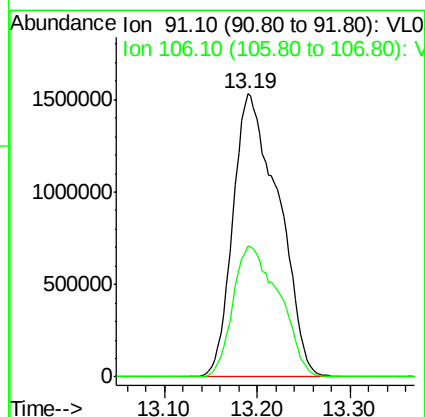
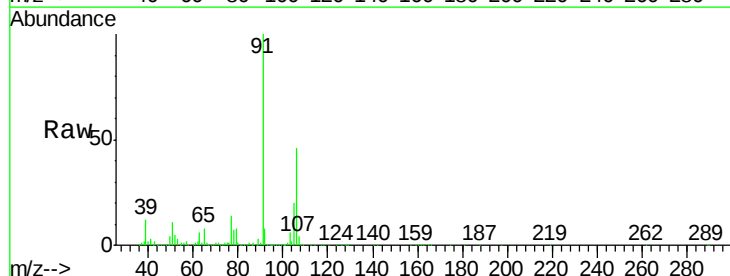
Acq: 16 Aug 2018 00:30

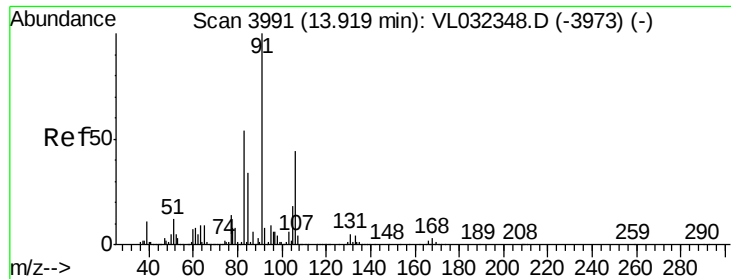
Tgt Ion: 91 Resp: 5214411

Ion Ratio Lower Upper

91 100

106 47.1 37.0 55.4





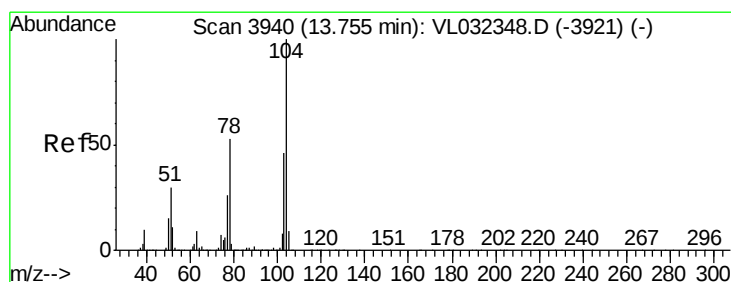
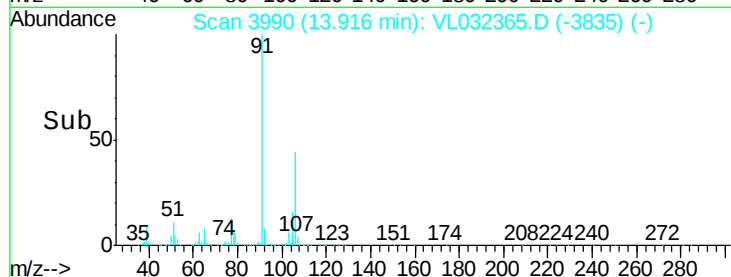
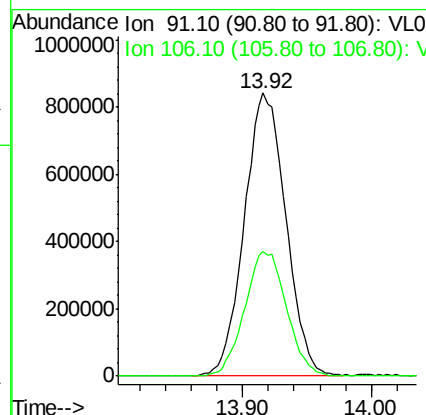
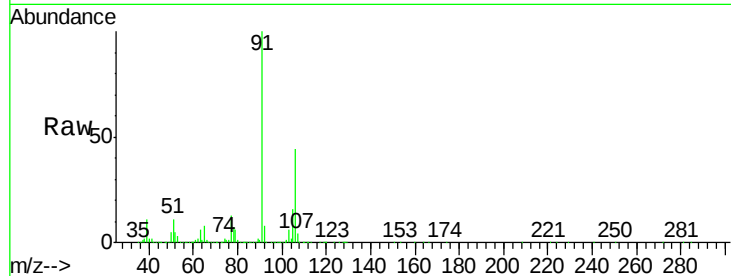
#60
o-Xylene
Concen: 4.54 ppbv
RT: 13.92 min Scan# 3990
Delta R.T. -0.00 min
Lab File: VL032365.D
Acq: 16 Aug 2018 00:30

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDL

Tot Ion: 91 Resp: 1885770
Ion Ratio Lower Upper
91 100
106 44.4 22.3 66.8

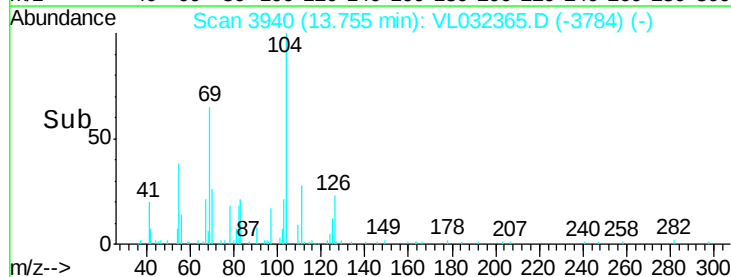
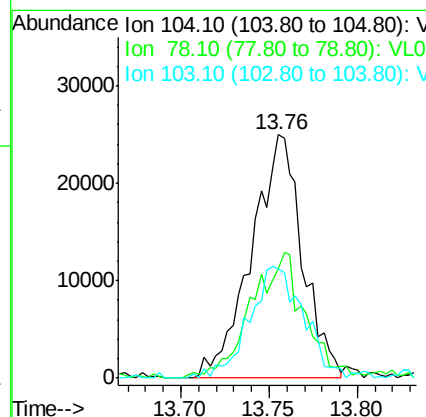
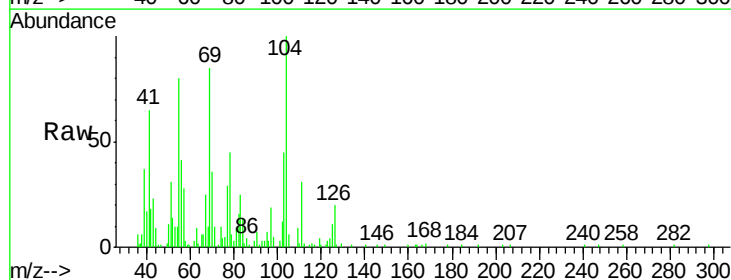
Manual Integrations
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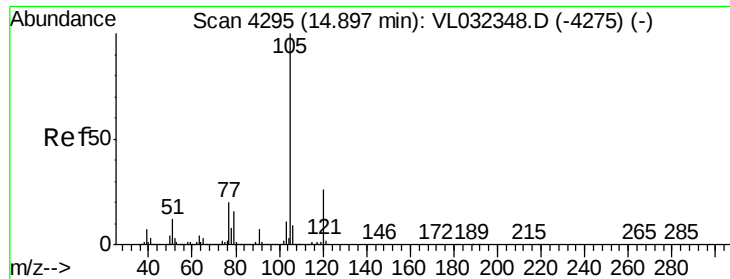
MMDadoda
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#61
Styrene
Concen: 0.17 ppbv m
RT: 13.76 min Scan# 3940
Delta R.T. 0.00 min
Lab File: VL032365.D
Acq: 16 Aug 2018 00:30

Tgt Ion:104 Resp: 49952
Ion Ratio Lower Upper
104 100
78 54.8 42.6 64.0
103 49.1 38.0 57.0





#62

Isopropylbenzene

Concen: 0.43 ppbv m

RT: 14.90 min Scan# 4295

Delta R.T. 0.00 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDL

Tot Ion:105 Resp: 251523

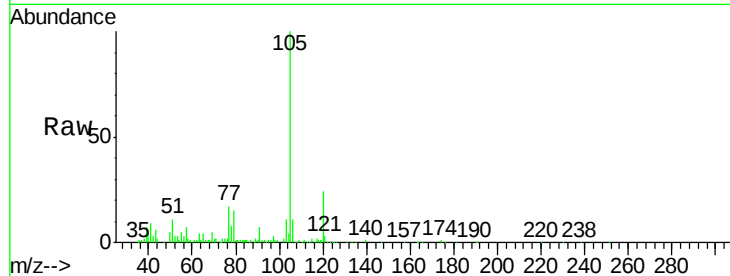
Ion Ratio Lower Upper

105 100

120 0.0 20.6 30.8#

Manual Integrations
APPROVED

MMDadoda
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

120000

100000

80000

60000

40000

20000

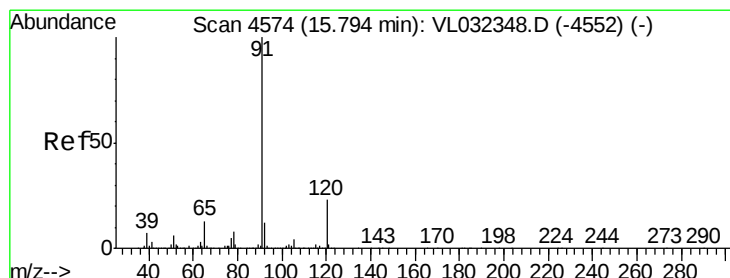
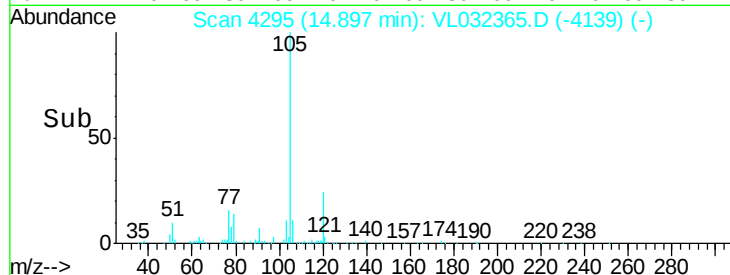
0

14.80

14.90

15.00

Time-->



#64

n-propylbenzene

Concen: 0.63 ppbv m

RT: 15.79 min Scan# 4572

Delta R.T. -0.01 min

Lab File: VL032365.D

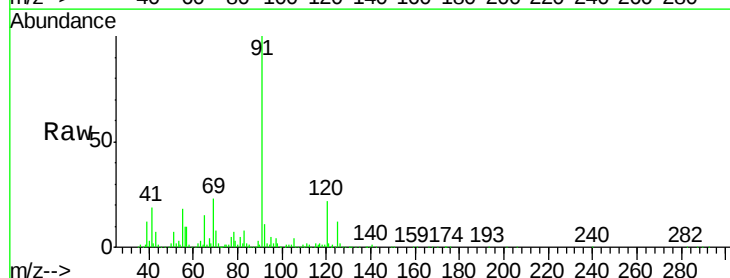
Acq: 16 Aug 2018 00:30

Tgt Ion:120 Resp: 96523

Ion Ratio Lower Upper

120 100

91 500.2 382.2 573.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

250000

200000

150000

100000

50000

0

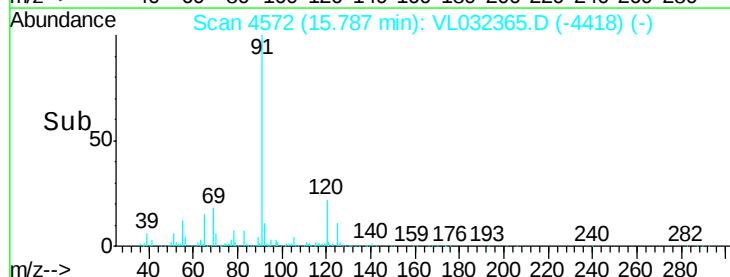
15.70

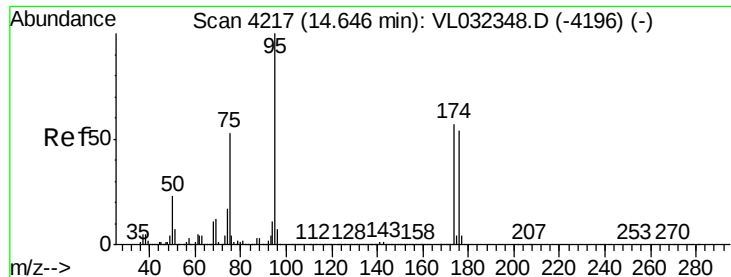
15.75

15.80

15.85

Time-->





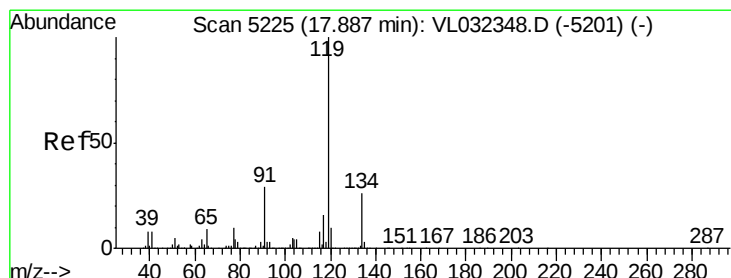
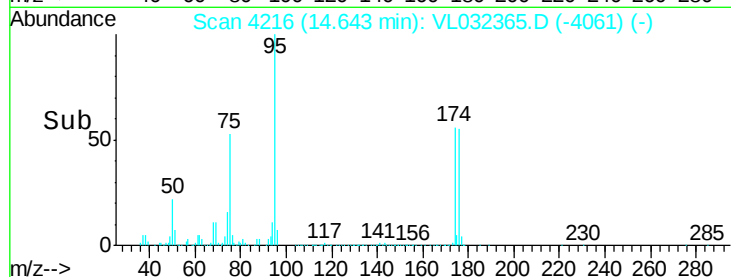
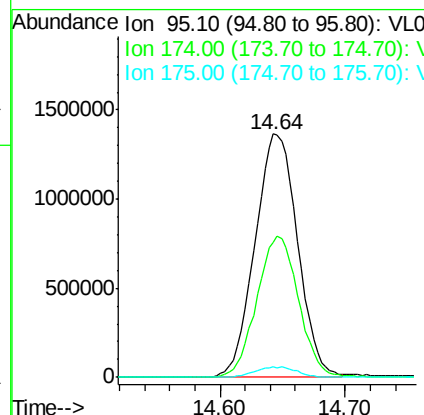
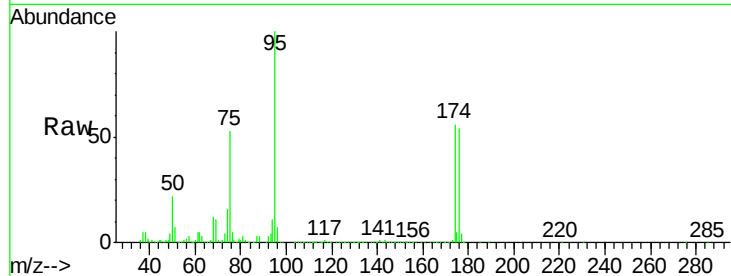
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.21 ppbv
 RT: 14.64 min Scan# 4216
 Delta R.T. -0.00 min
 Lab File: VL032365.D
 Acq: 16 Aug 2018 00:30

Instrument :
 MSVOA_L
 ClientSampleId :
 SS08-MIVIDL

Tot Ion: 95 Resp: 3220382
 Ion Ratio Lower Upper
 95 100
 174 57.4 46.2 69.4
 175 4.3 3.4 5.0

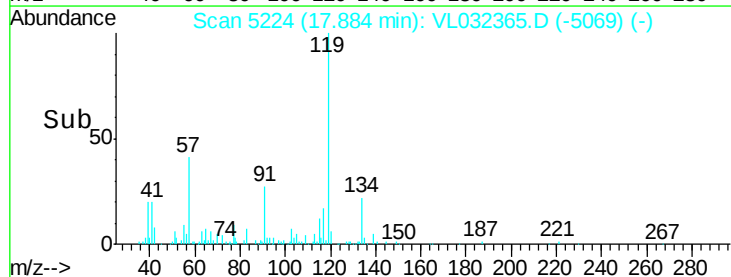
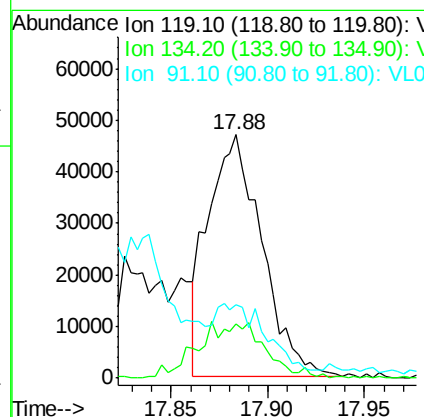
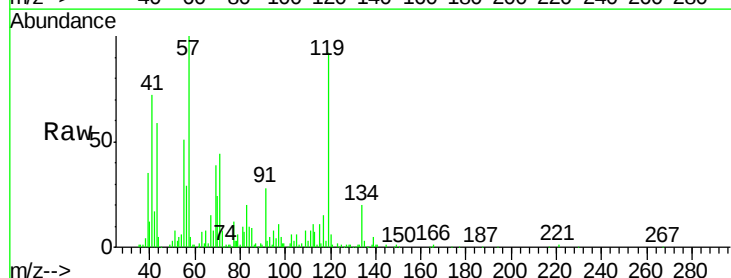
Manual Integrations
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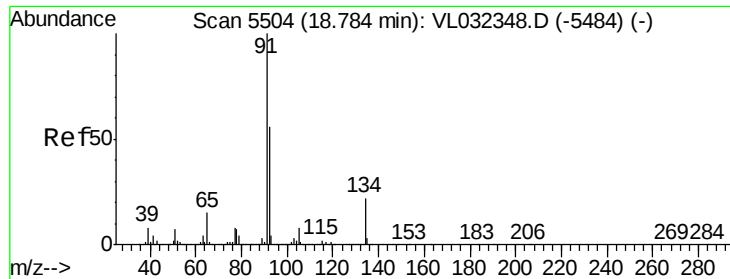
MMDadoda
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#69
 p-Isopropyltoluene
 Concen: 0.16 ppbv
 RT: 17.88 min Scan# 5224
 Delta R.T. -0.00 min
 Lab File: VL032365.D
 Acq: 16 Aug 2018 00:30

Tgt Ion: 119 Resp: 90417
 Ion Ratio Lower Upper
 119 100
 134 29.0 20.4 30.6
 91 27.8 23.6 35.4





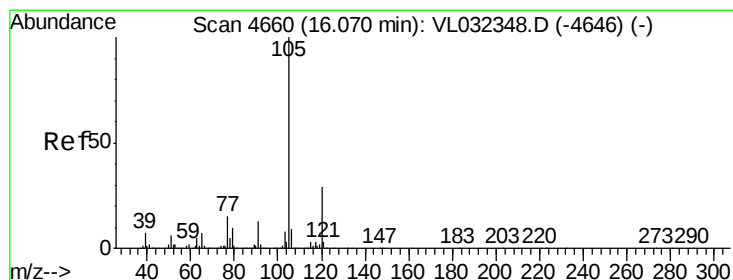
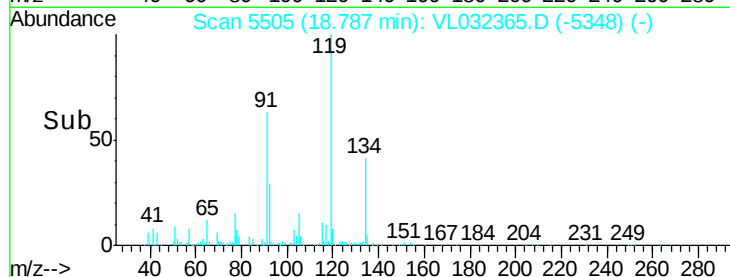
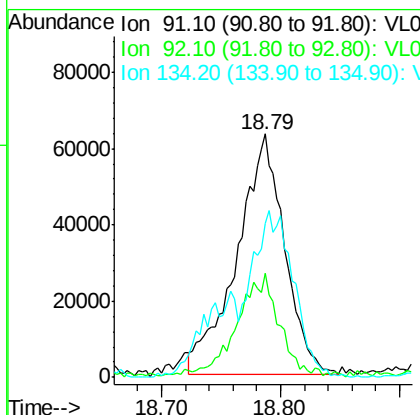
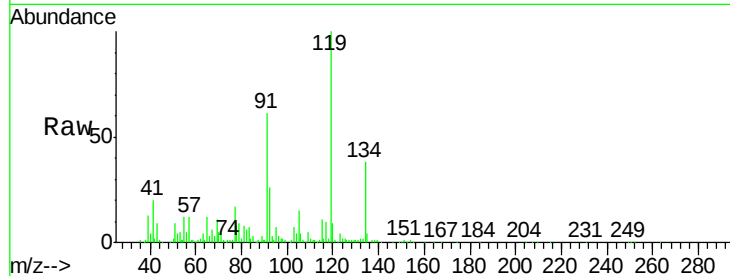
#70
n-Butylbenzene
Concen: 0.28 ppbv
RT: 18.79 min Scan# 5505
Delta R.T. 0.00 min
Lab File: VL032365.D
Acq: 16 Aug 2018 00:30

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDL

Tot Ion	Ratio	Lower	Upper
91	100		
92	38.9	43.9	65.9#
134	85.9	17.3	25.9#

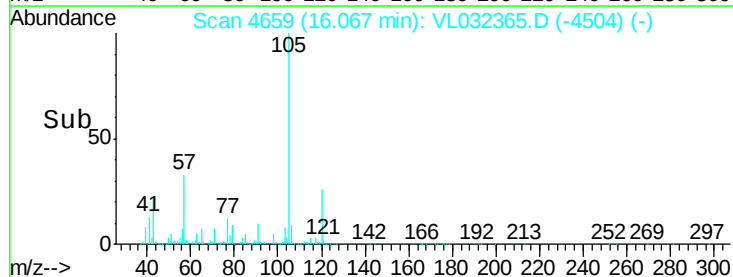
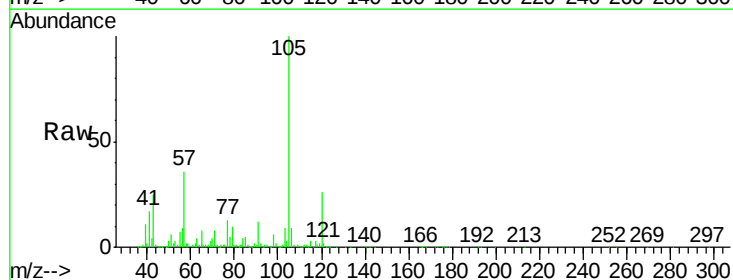
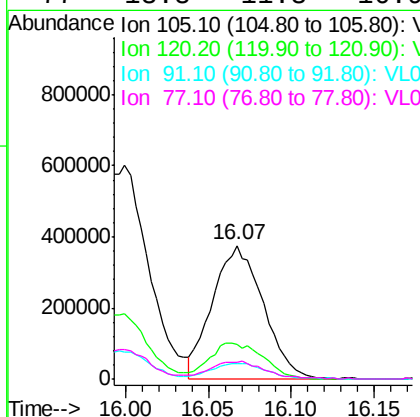
Manual Integrations
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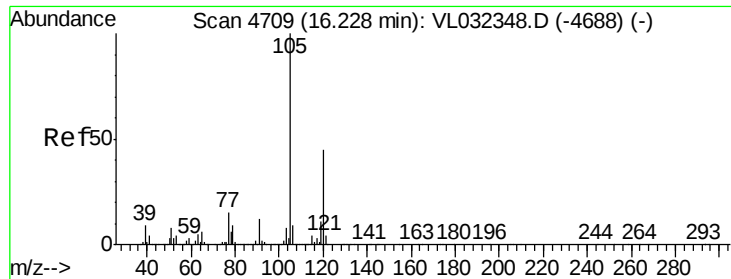
MMDadoda
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#72
4-Ethyltoluene
Concen: 1.71 ppbv
RT: 16.07 min Scan# 4659
Delta R.T. -0.00 min
Lab File: VL032365.D
Acq: 16 Aug 2018 00:30

Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.1	23.4	35.0
91	12.5	10.0	15.0
77	13.8	11.3	16.9





#73

1,3,5-Trimethylbenzene

Concen: 1.71 ppbv

RT: 16.22 min Scan# 4708

Delta R.T. -0.00 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDL

Tot Ion:105 Resp: 761311

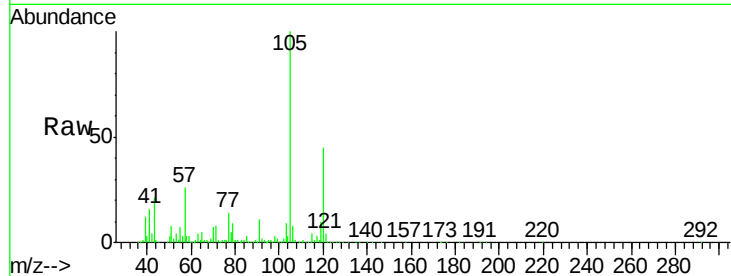
Ion Ratio Lower Upper

105 100

120 45.0 36.3 54.5

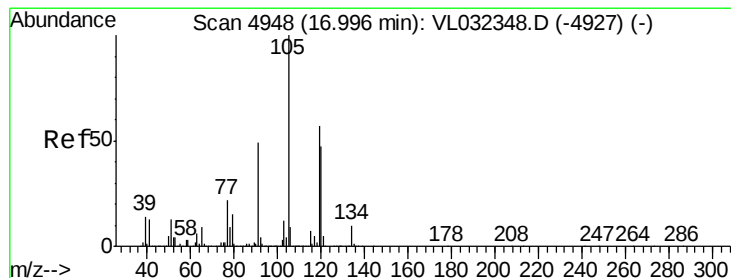
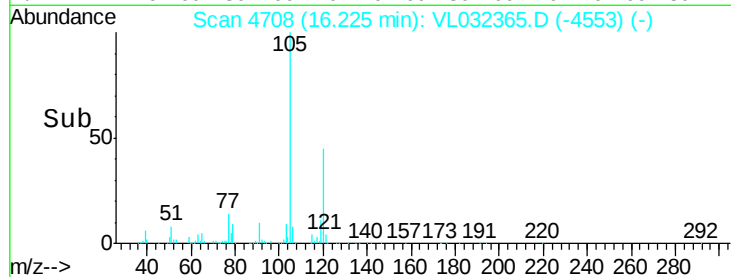
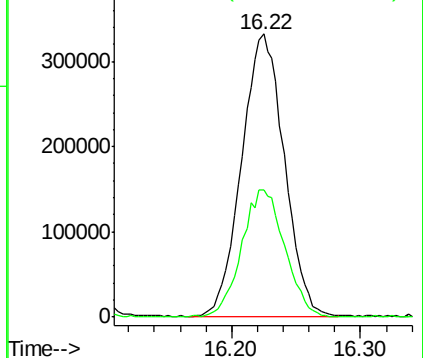
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 4.31 ppbv

RT: 16.99 min Scan# 4946

Delta R.T. -0.01 min

Lab File: VL032365.D

Acq: 16 Aug 2018 00:30

Tgt Ion:105 Resp: 2044898

Ion Ratio Lower Upper

105 100

120 41.6 37.6 56.4

91 11.3 39.9 59.9#

77 13.4 17.8 26.8#

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

