

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031977.D
 Acq On : 4 May 2018 00:43
 Operator : SY/AP
 Sample : J2629-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG2

Manual Integrations
 APPROVED

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 5/4/2018 5:01:12 PM

Quant Time: May 04 04:17:41 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1146549	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2307421	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2324531	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	1904533	10.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	17020	0.11	ppbv	100
3) Chlorodifluoromethane	3.10	51	19370m	0.18	ppbv	
4) Chloromethane	3.25	50	19821	0.35	ppbv	97
9) Propene	3.12	41	126876	3.21	ppbv	96
10) Heptane	8.38	43	21907m	0.16	ppbv	
11) Trichlorofluoromethane	4.11	101	37655	0.21	ppbv	87
13) Ethanol	3.75	45	152468	10.33	ppbv #	100
15) Acetone	4.00	43	525693	3.24	ppbv #	71
19) Isopropyl Alcohol	4.14	45	22621m	0.26	ppbv	
20) Methylene Chloride	4.51	84	44092	0.81	ppbv	97
26) Hexane	5.91	57	120632	0.92	ppbv #	42
34) 2-Butanone	5.44	43	1153792	6.06	ppbv	100
35) Carbon Tetrachloride	7.26	117	14768m	0.08	ppbv	
36) Benzene	7.13	78	76250m	0.35	ppbv	
51) 2-Hexanone	10.42	43	488757	2.99	ppbv #	99
53) Toluene	10.09	91	121287m	0.52	ppbv	
58) Ethyl Benzene	13.02	91	50732	0.15	ppbv	94
59) m/p-Xylene	13.27	91	174691m	0.62	ppbv	
60) o-Xylene	14.00	91	73981	0.26	ppbv	88
61) Styrene	13.84	104	39841m	0.69	ppbv	
69) p-Isopropyltoluene	17.96	119	39082m	0.11	ppbv	
72) 4-Ethyltoluene	16.15	105	42071m	0.15	ppbv	
73) 1,3,5-Trimethylbenzene	16.30	105	40867	0.15	ppbv #	85
74) 1,2,4-Trimethylbenzene	17.08	105	144410	0.49	ppbv #	67

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

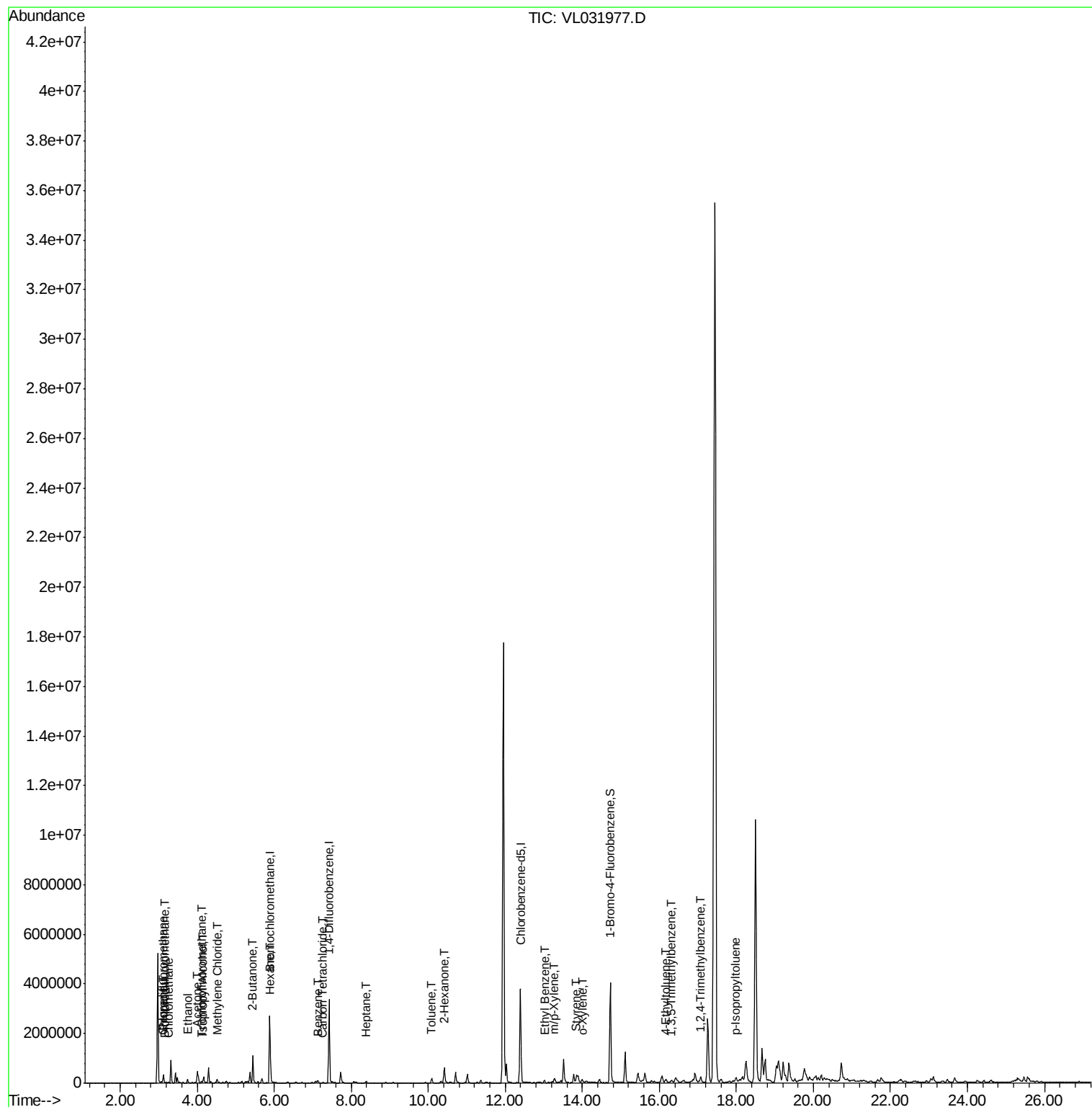
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
Data File : VL031977.D
Acq On : 4 May 2018 00:43
Operator : SY/AP
Sample : J2629-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

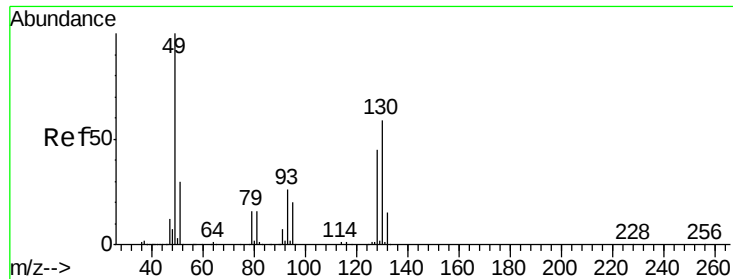
Instrument :
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5/4/2018 5:01:12 PM

Quant Time: May 04 04:17:41 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May
QLast Update : Thu May 03 15:52:13 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VL031977.D

Acq: 4 May 2018 00:43

Instrument :

MSVOA_L

ClientSampled :

SG2

Tot Ion: 49 Resp: 1146549

Ion Ratio Lower Upper

49 100

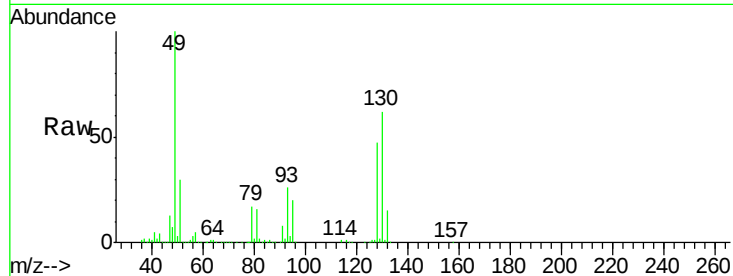
128 48.1 24.1 72.3

130 63.1 30.7 92.1

Manual Integrations
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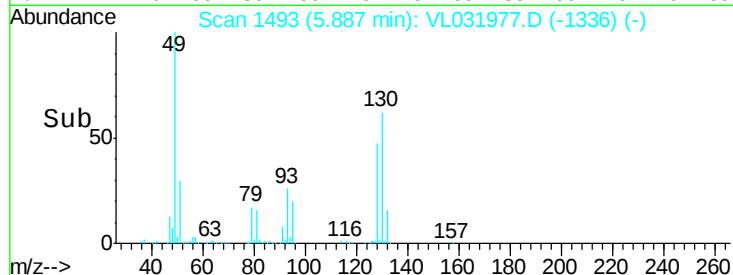


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

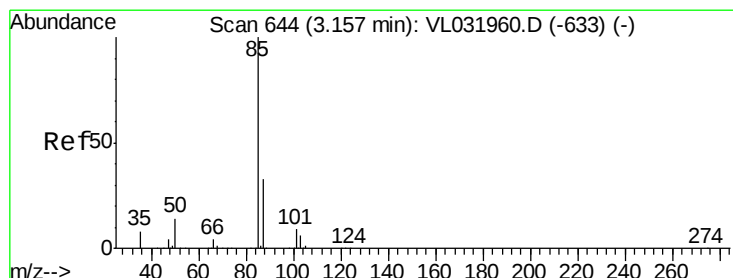
Ion 130.00 (129.70 to 130.70): V

Time-->



Scan 1493 (5.887 min): VL031977.D (-1336) (-)

Time-->



#2

Dichlorodifluoromethane

Concen: 0.11 ppbv

RT: 3.16 min Scan# 645

Delta R.T. 0.00 min

Lab File: VL031977.D

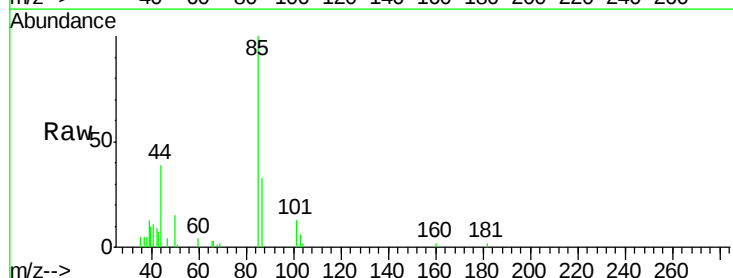
Acq: 4 May 2018 00:43

Tgt Ion: 85 Resp: 17020

Ion Ratio Lower Upper

85 100

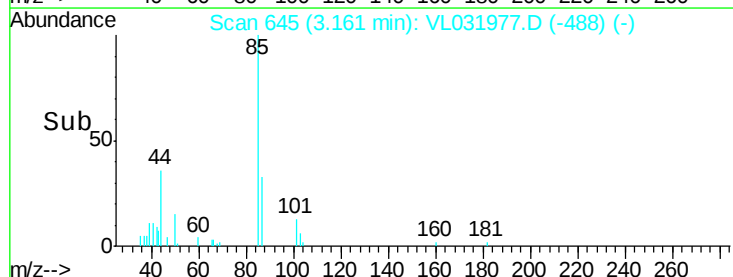
87 33.2 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

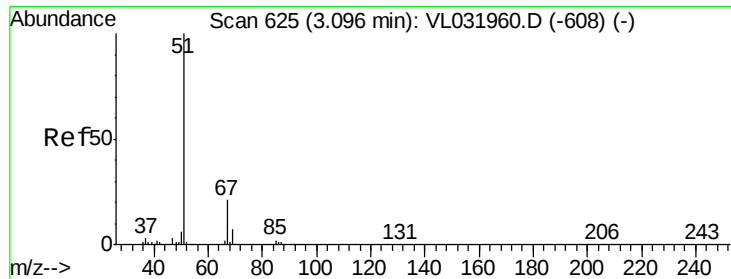
Ion 87.00 (86.70 to 87.70): VL0

Time-->



Scan 645 (3.161 min): VL031977.D (-488) (-)

Time-->



#3

Chlorodifluoromethane

Concen: 0.18 ppbv m

RT: 3.10 min Scan# 626

Delta R.T. 0.00 min

Lab File: VL031977.D

Acq: 4 May 2018 00:43

Instrument :

MSVOA_L

ClientSampled :

SG2

Tot Ion: 51 Resp: 19370

Ion Ratio Lower Upper

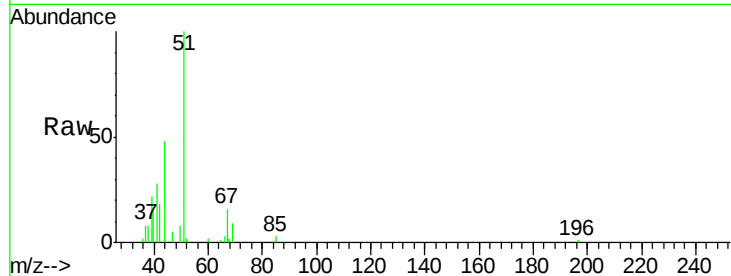
51 100

67 26.3 15.9 23.9#

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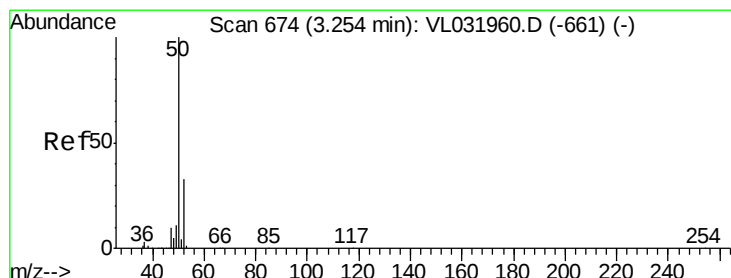
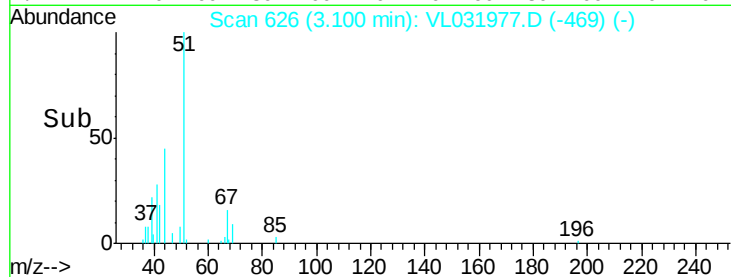
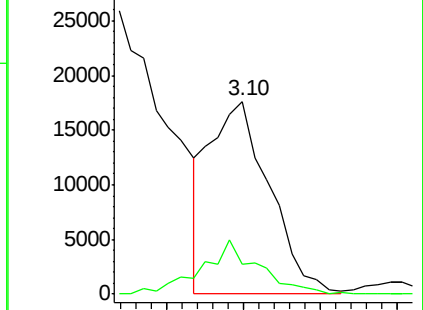
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.35 ppbv

RT: 3.25 min Scan# 674

Delta R.T. 0.00 min

Lab File: VL031977.D

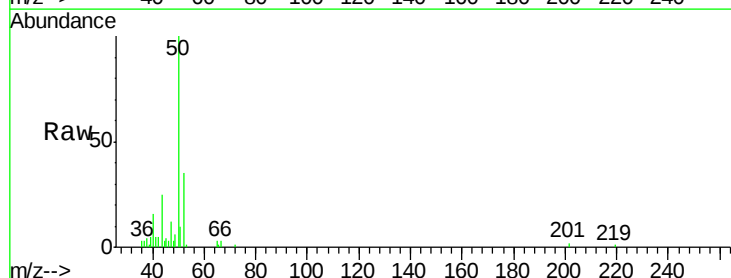
Acq: 4 May 2018 00:43

Tgt Ion: 50 Resp: 19821

Ion Ratio Lower Upper

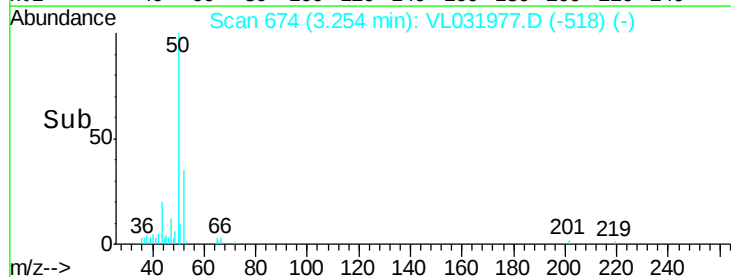
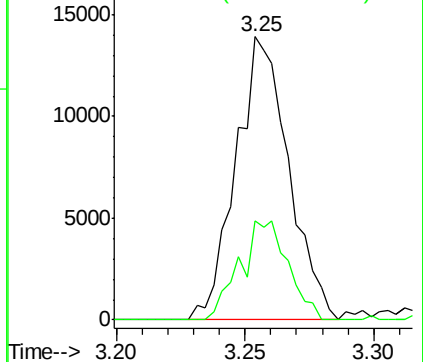
50 100

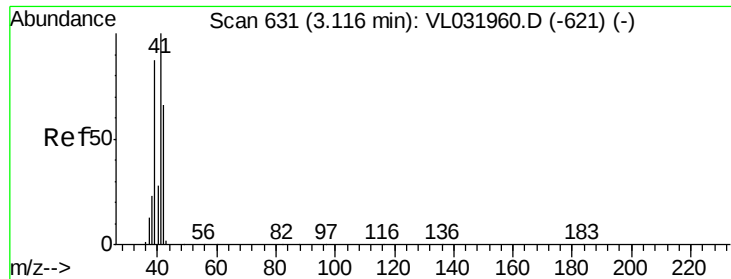
52 34.9 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 3.21 ppbv

RT: 3.12 min Scan# 633

Delta R.T. 0.01 min

Lab File: VL031977.D

Acq: 4 May 2018 00:43

Instrument :

MSVOA_L

ClientSampled :

SG2

Tot Ion: 41 Resp: 126876

Ion Ratio Lower Upper

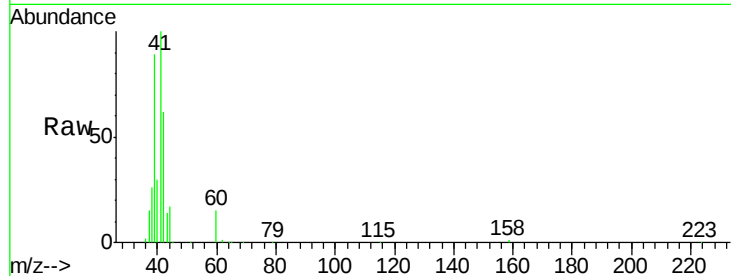
41 100

42 64.5 53.9 80.9

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.12

100000

80000

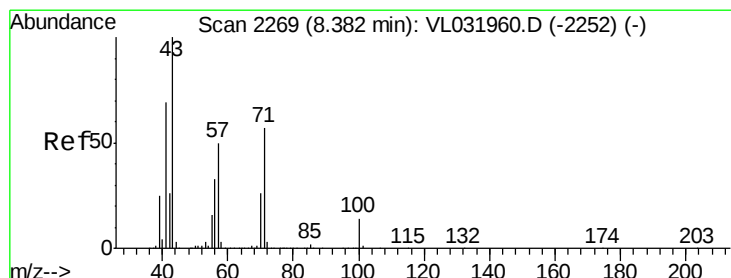
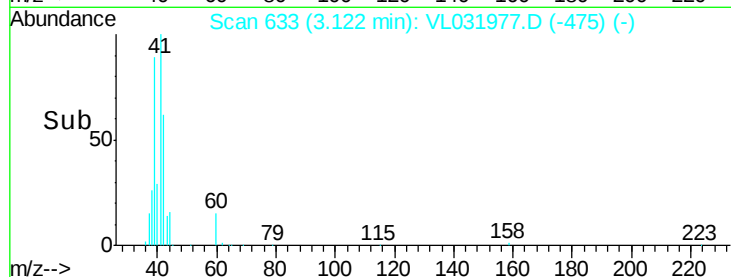
60000

40000

20000

0

Time-->



#10

Heptane

Concen: 0.16 ppbv m

RT: 8.38 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VL031977.D

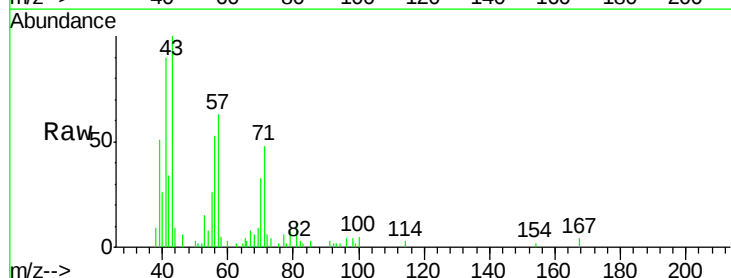
Acq: 4 May 2018 00:43

Tgt Ion: 43 Resp: 21907

Ion Ratio Lower Upper

43 100

57 58.0 40.7 61.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.38

12000

10000

8000

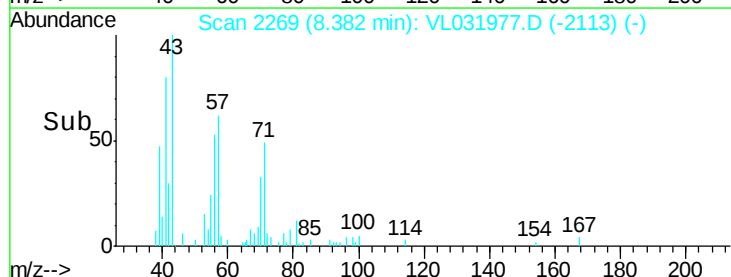
6000

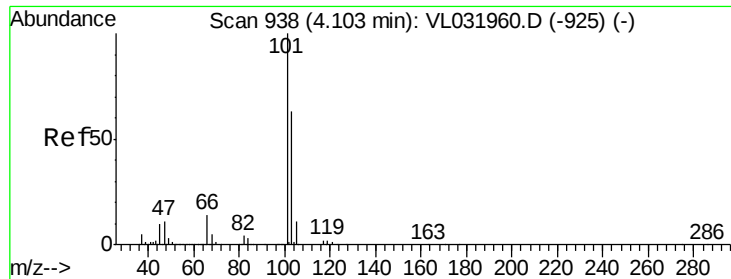
4000

2000

0

Time-->





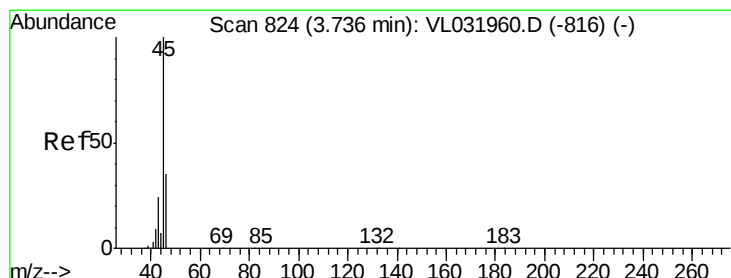
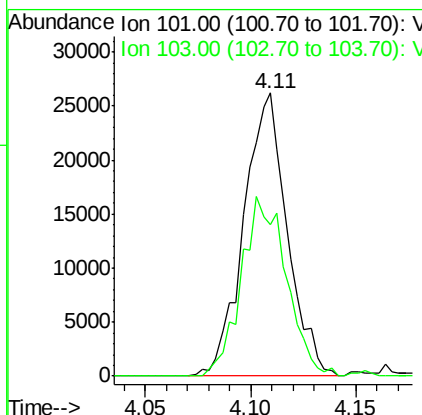
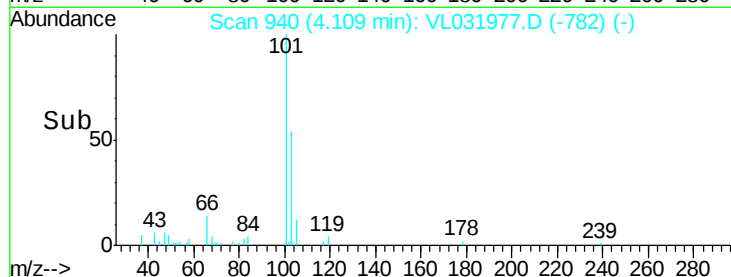
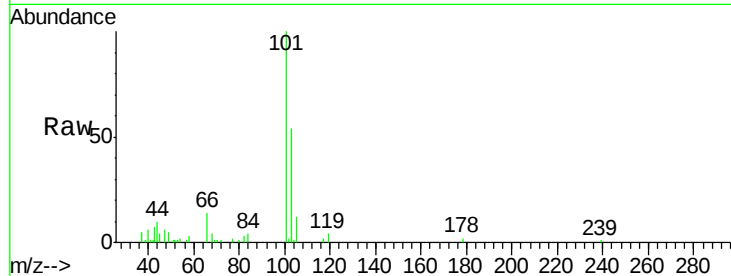
#11
 Trichlorofluoromethane
 Concen: 0.21 ppbv
 RT: 4.11 min Scan# 940
 Delta R.T. 0.01 min
 Lab File: VL031977.D
 Acq: 4 May 2018 00:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SG2

Tot Ion:101 Resp: 37655
 Ion Ratio Lower Upper
 101 100
 103 53.6 50.7 76.1

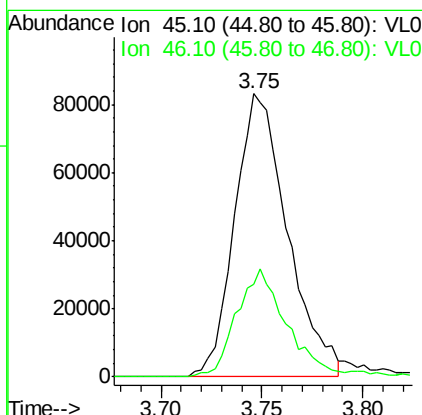
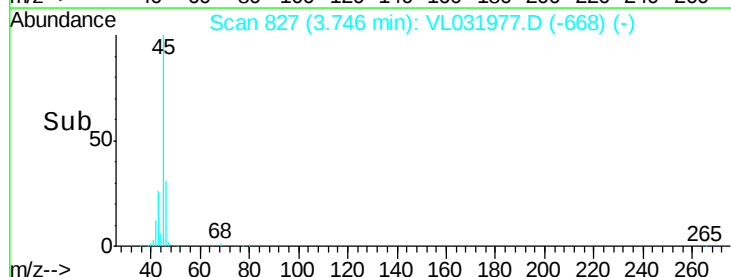
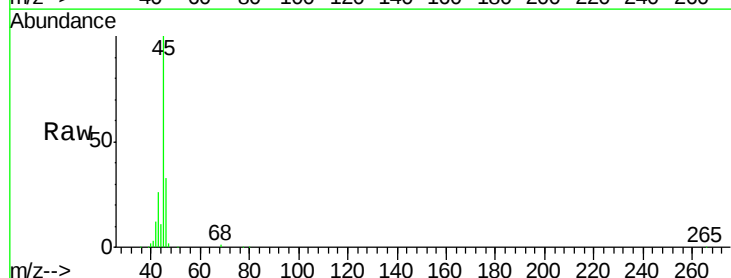
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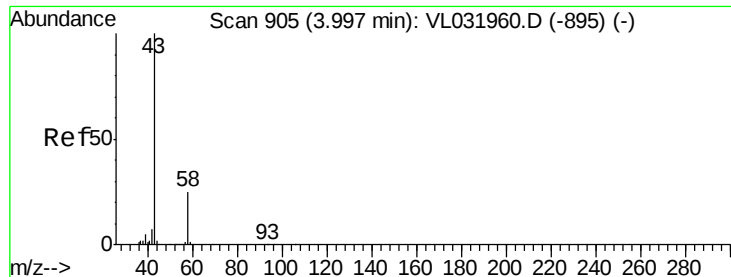
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#13
 Ethanol
 Concen: 10.33 ppbv
 RT: 3.75 min Scan# 827
 Delta R.T. 0.01 min
 Lab File: VL031977.D
 Acq: 4 May 2018 00:43

Tgt Ion: 45 Resp: 152468
 Ion Ratio Lower Upper
 45 100
 46 37.1 0.0 0.0#





#15

Acetone

Concen: 3.24 ppbv

RT: 4.00 min Scan# 906

Delta R.T. 0.00 min

Lab File: VL031977.D

Acq: 4 May 2018 00:43

Instrument :

MSVOA_L

ClientSampleId :

SG2

Tot Ion: 43 Resp: 525693

Ion Ratio Lower Upper

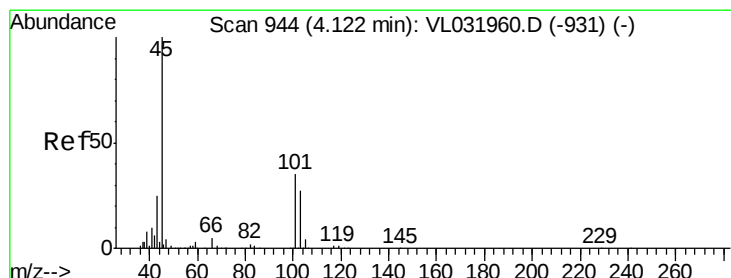
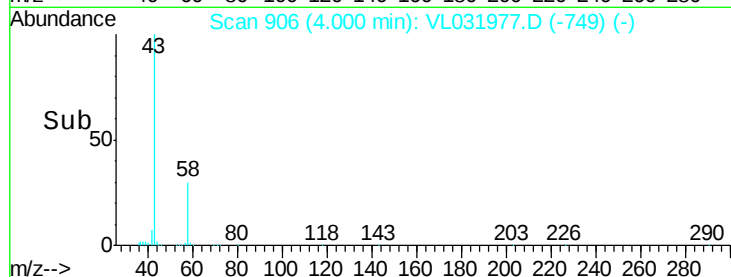
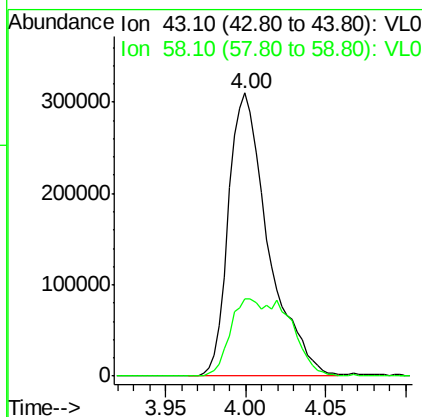
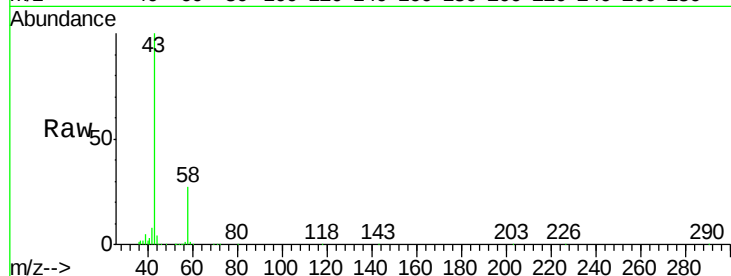
43 100

58 41.4 21.1 31.7#

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 0.26 ppbv m

RT: 4.14 min Scan# 951

Delta R.T. 0.02 min

Lab File: VL031977.D

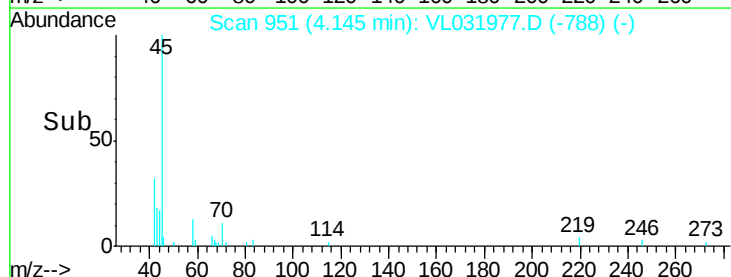
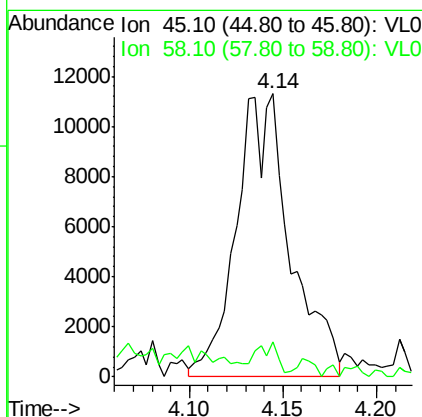
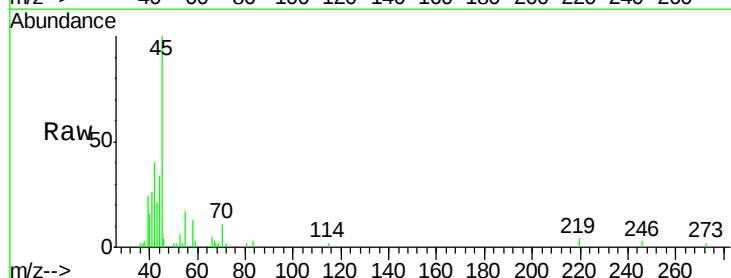
Acq: 4 May 2018 00:43

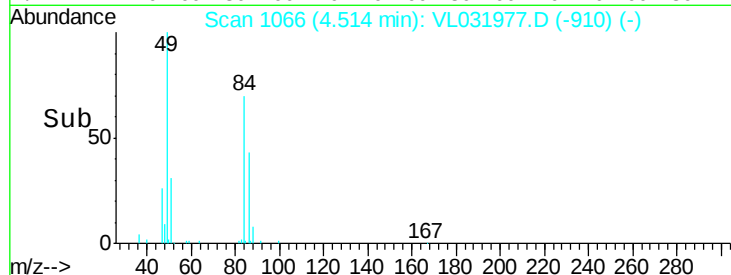
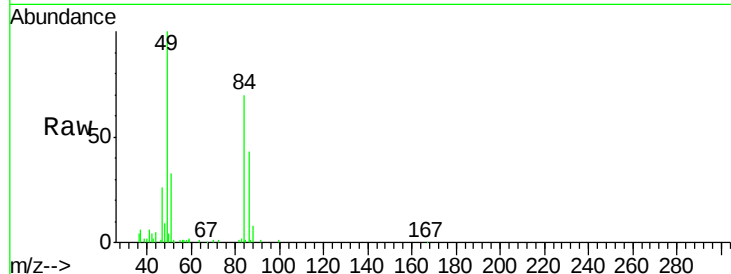
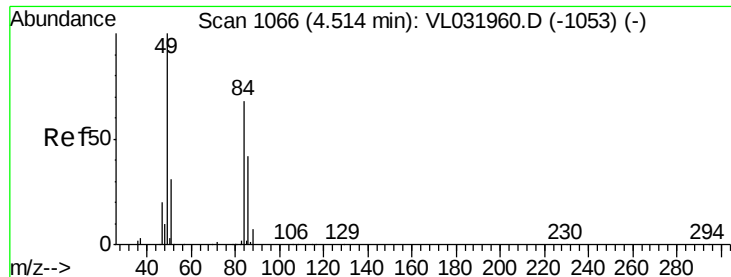
Tgt Ion: 45 Resp: 22621

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#





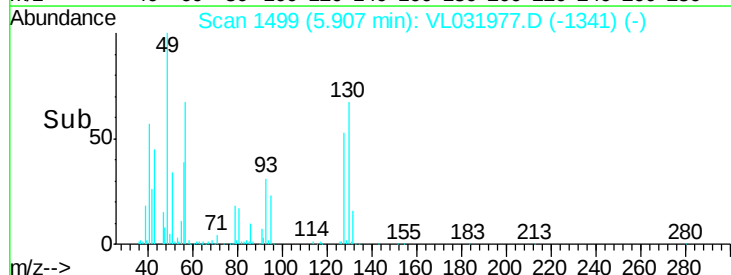
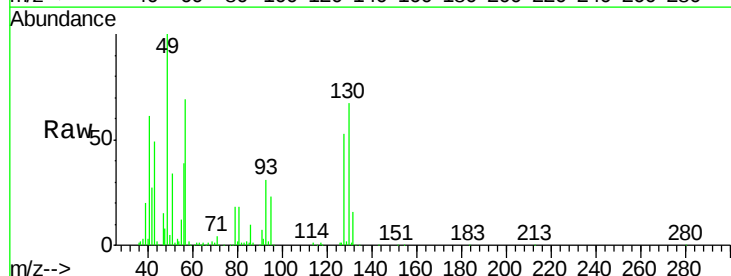
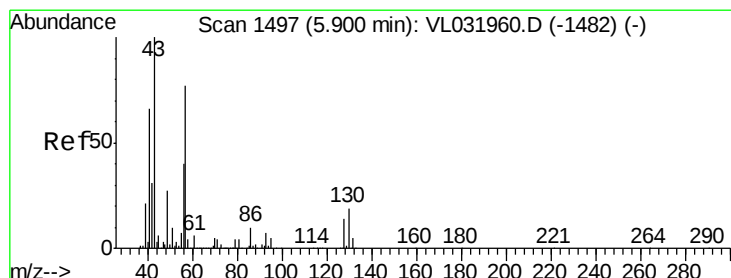
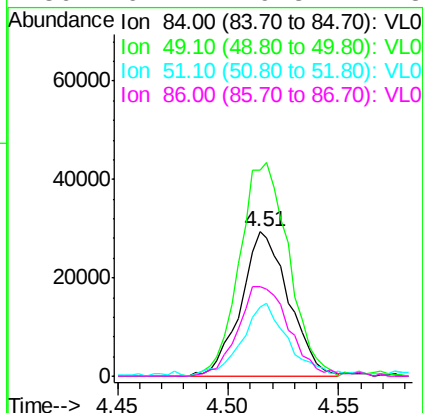
#20
Methvlene Chloride
Concen: 0.81 ppbv
RT: 4.51 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VL031977.D
Acq: 4 May 2018 00:43

Tot Ion	Ratio	Lower	Upper
84	100		
49	143.1	118.6	178.0
51	48.4	36.6	54.8
86	62.1	49.8	74.8

Instrument :
MSVOA_L
ClientSampleId :
SG2

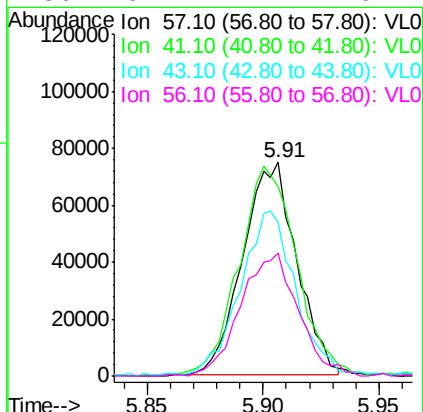
Manual Integrations
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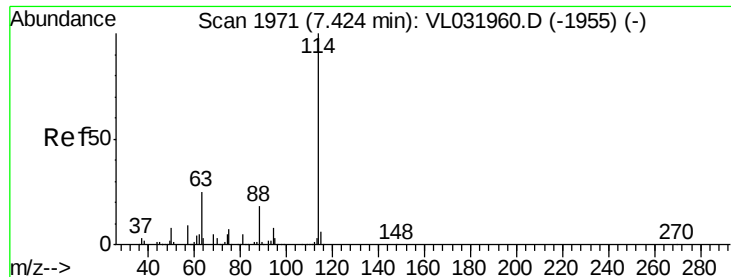
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#26
Hexane
Concen: 0.92 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. 0.01 min
Lab File: VL031977.D
Acq: 4 May 2018 00:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	108.5	71.8	107.6#
43	80.9	171.5	257.3#
56	62.1	41.4	62.2





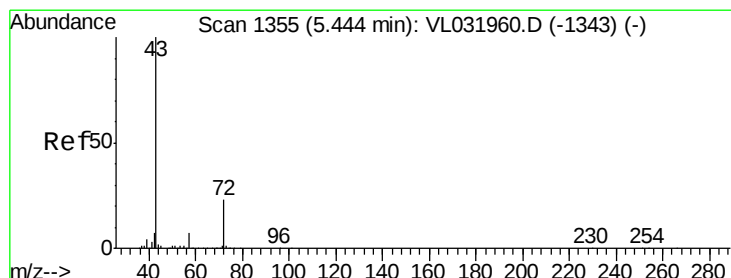
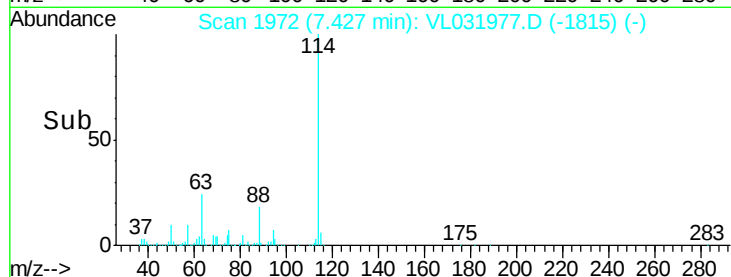
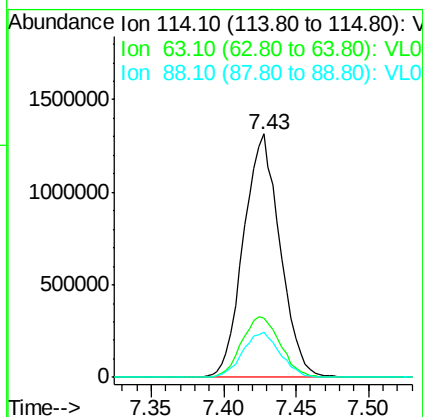
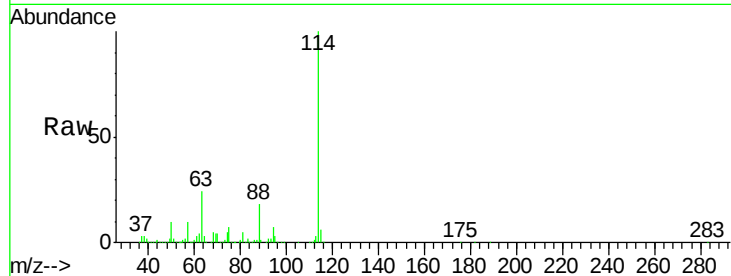
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.43 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VL031977.D
 Acq: 4 May 2018 00:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SG2

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	20.8	31.2
88	19.0	14.6	21.8

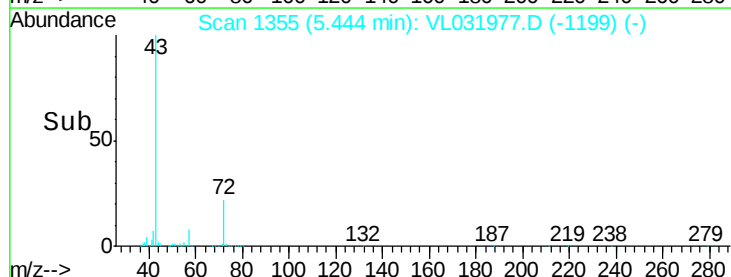
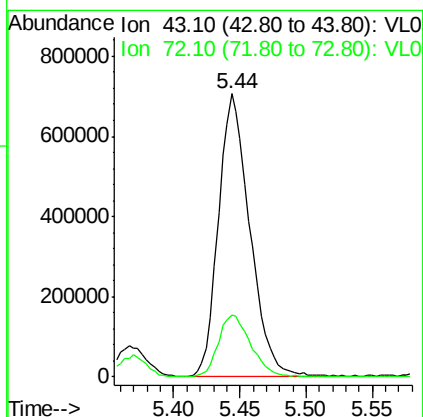
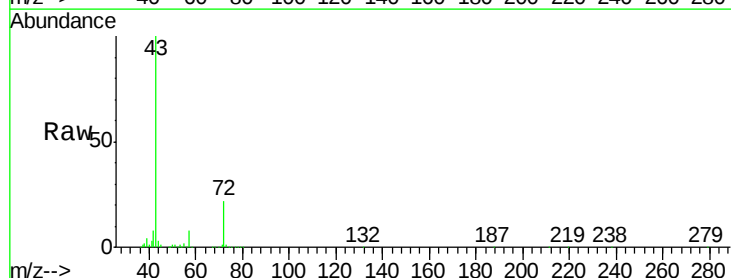
Manual Integrations
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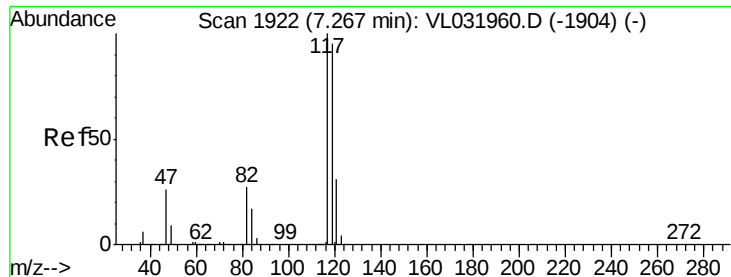
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#34
 2-Butanone
 Concen: 6.06 ppbv
 RT: 5.44 min Scan# 1355
 Delta R.T. 0.00 min
 Lab File: VL031977.D
 Acq: 4 May 2018 00:43

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.3	27.5





#35

Carbon Tetrachloride

Concen: 0.08 ppbv m

RT: 7.26 min Scan# 1921

Delta R.T. -0.00 min

Lab File: VL031977.D

Acq: 4 May 2018 00:43

Instrument :

MSVOA_L

ClientSampled :

SG2

Tot Ion:117 Resp: 14768

Ion Ratio Lower Upper

117 100

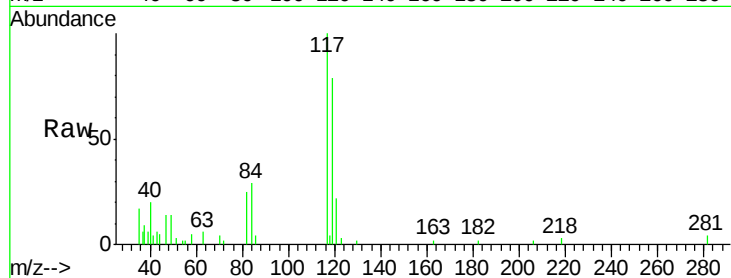
119 79.5 76.4 114.6

121 21.8 24.4 36.6#

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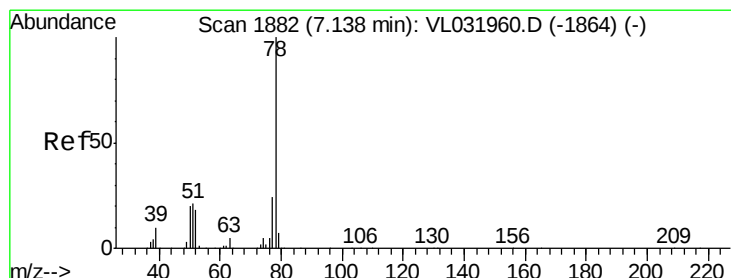
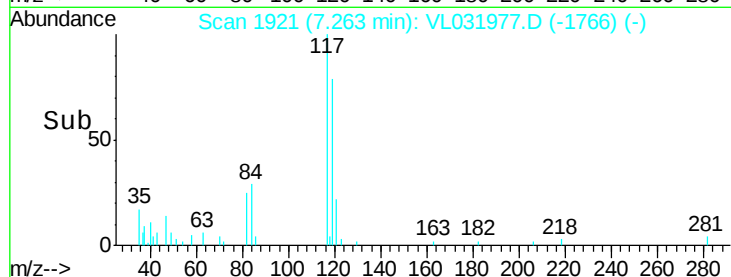
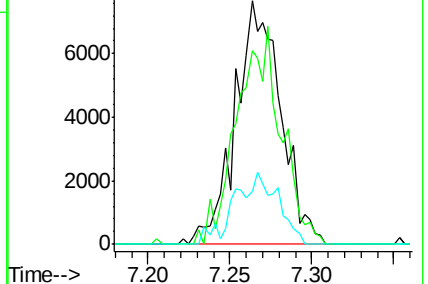
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.35 ppbv m

RT: 7.13 min Scan# 1881

Delta R.T. -0.00 min

Lab File: VL031977.D

Acq: 4 May 2018 00:43

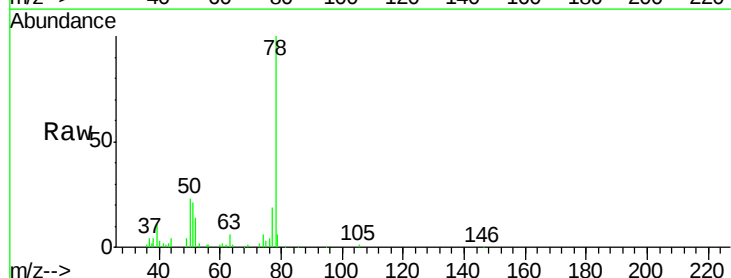
Tgt Ion: 78 Resp: 76250

Ion Ratio Lower Upper

78 100

77 19.2 19.2 28.8

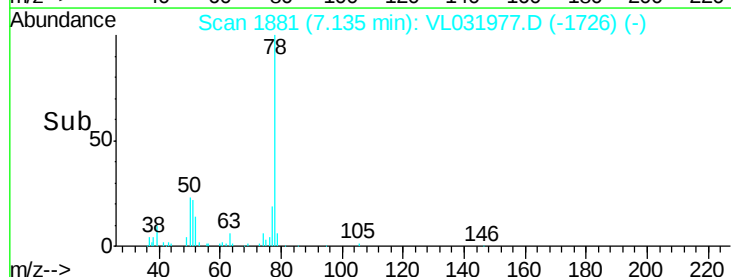
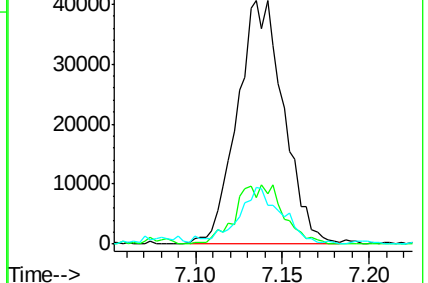
50 23.2 16.2 24.4

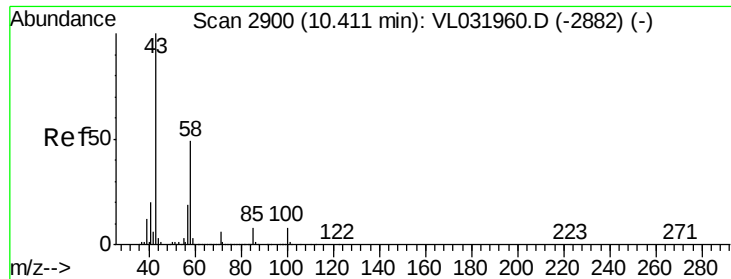


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#51

2-Hexanone

Concen: 2.99 ppbv

RT: 10.42 min Scan# 2902

Delta R.T. 0.01 min

Lab File: VL031977.D

Acq: 4 May 2018 00:43

Instrument :

MSVOA_L

ClientSampleId :

SG2

Tot Ion: 43 Resp: 488757

Ion Ratio Lower Upper

43 100

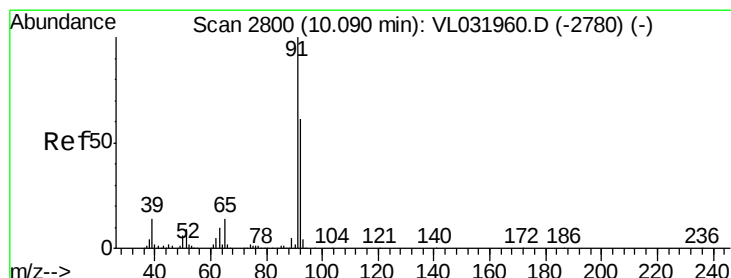
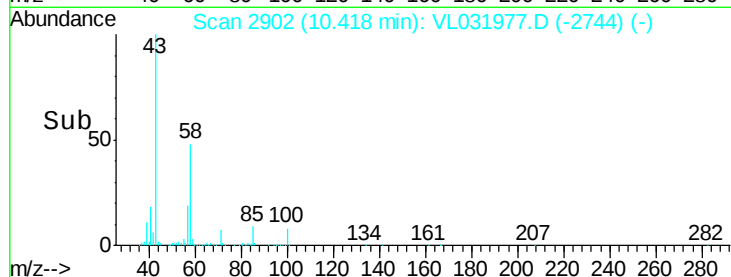
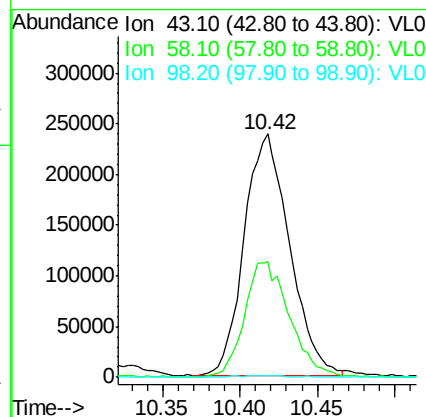
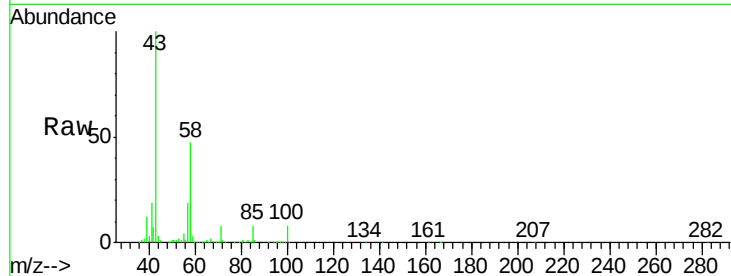
58 47.4 38.6 58.0

98 1.1 0.2 0.2#

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#53

Toluene

Concen: 0.52 ppbv m

RT: 10.09 min Scan# 2800

Delta R.T. 0.00 min

Lab File: VL031977.D

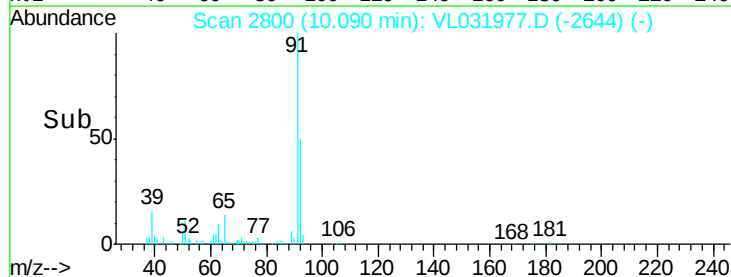
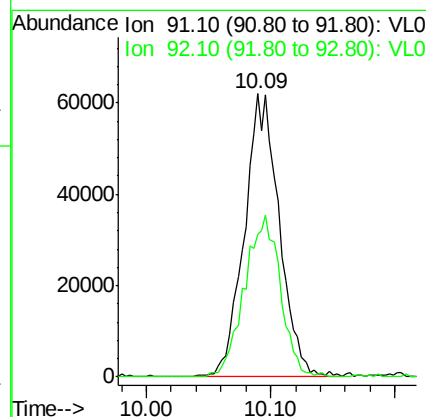
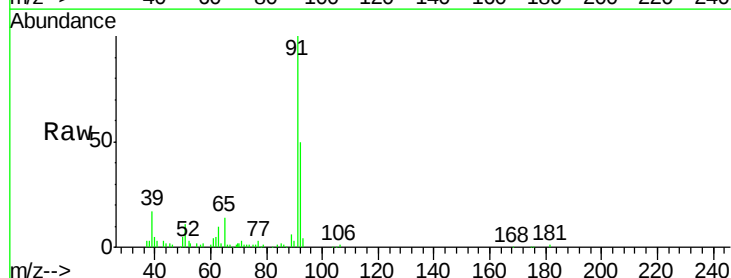
Acq: 4 May 2018 00:43

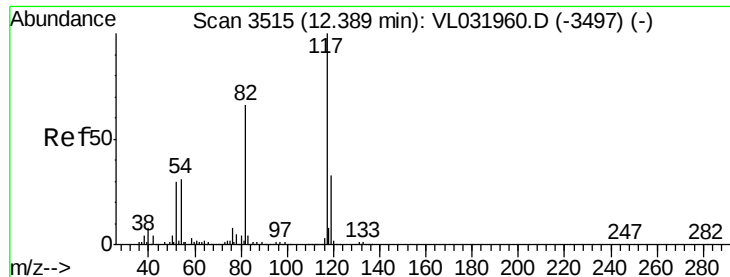
Tgt Ion: 91 Resp: 121287

Ion Ratio Lower Upper

91 100

92 58.4 47.4 71.2





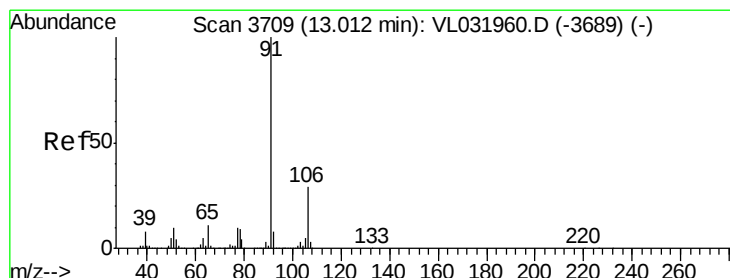
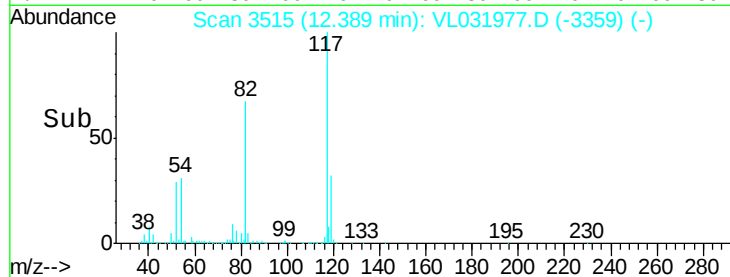
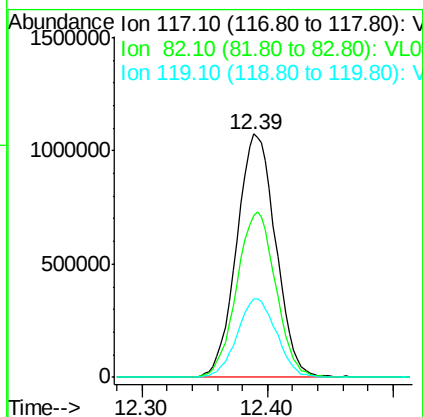
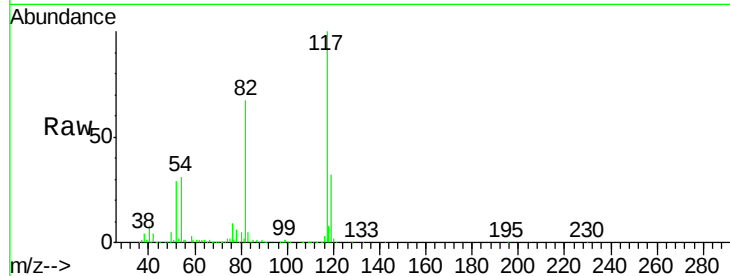
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.39 min Scan# 3515
Delta R.T. 0.00 min
Lab File: VL031977.D
Acq: 4 May 2018 00:43

Instrument :
MSVOA_L
ClientSampled :
SG2

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.2	51.6	77.4
119	32.7	44.2	66.4#

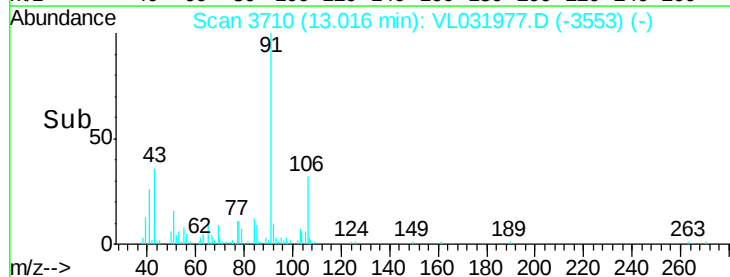
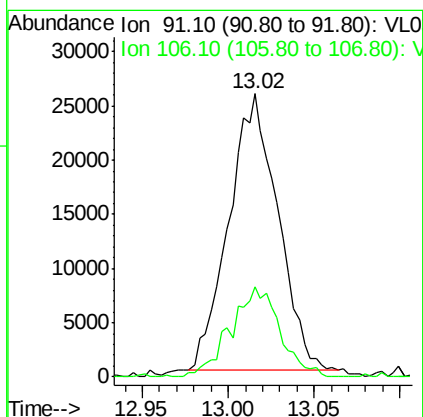
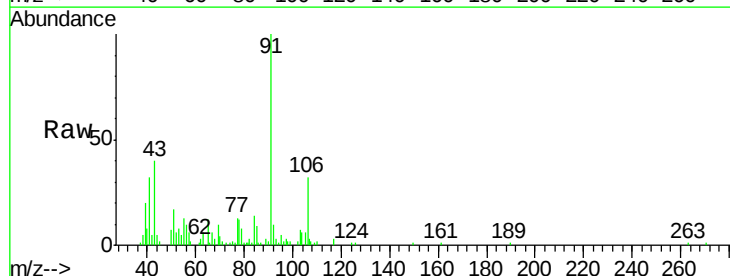
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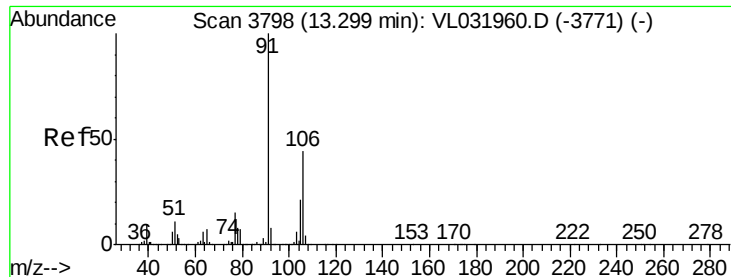
MMDadoda
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#58
Ethyl Benzene
Concen: 0.15 ppbv
RT: 13.02 min Scan# 3710
Delta R.T. 0.00 min
Lab File: VL031977.D
Acq: 4 May 2018 00:43

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.6	23.4	35.2





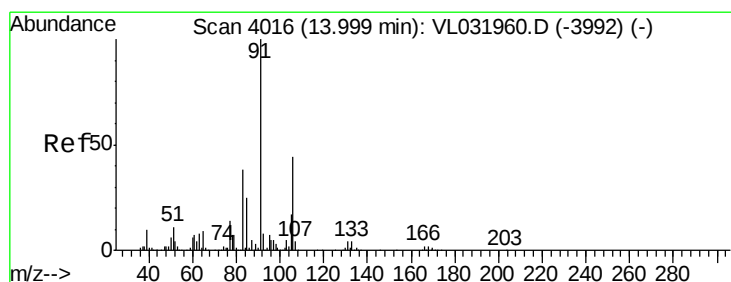
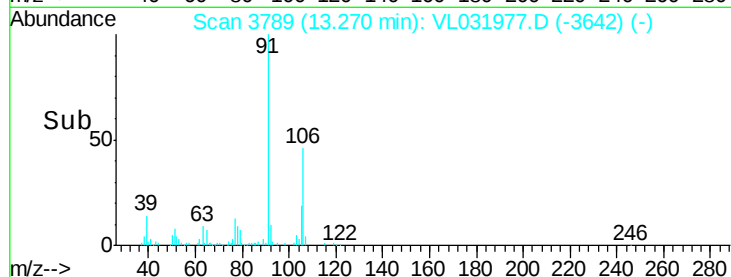
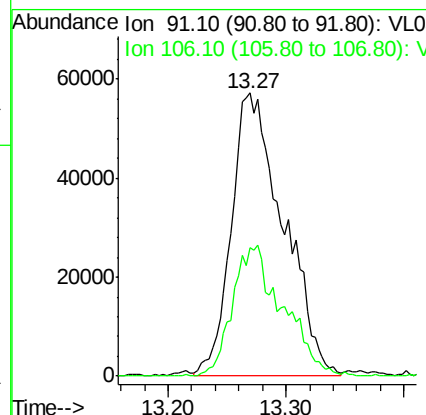
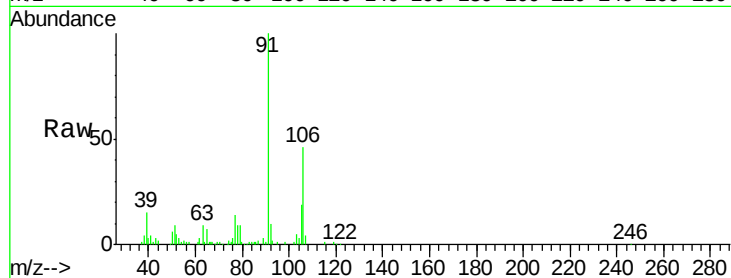
#59
m/p-Xylene
Concen: 0.62 ppbv m
RT: 13.27 min Scan# 3798
Delta R.T. -0.03 min
Lab File: VL031977.D
Acq: 4 May 2018 00:43

Instrument :
MSVOA_L
ClientSampled :
SG2

Tot Ion: 91 Resp: 174691
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#

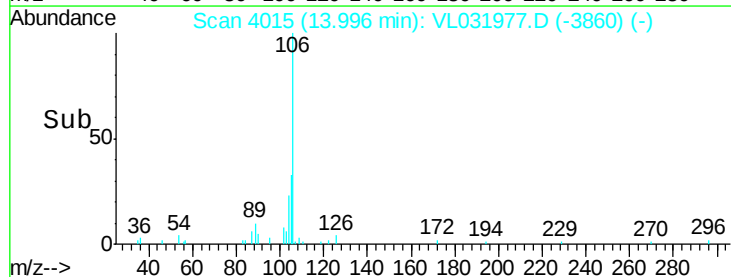
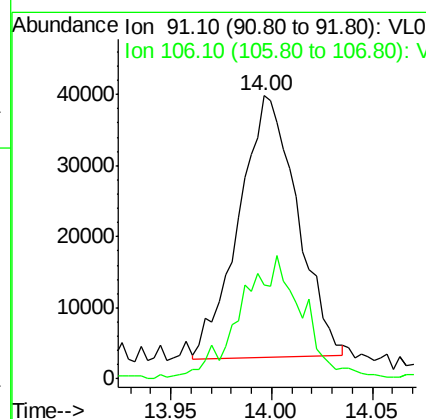
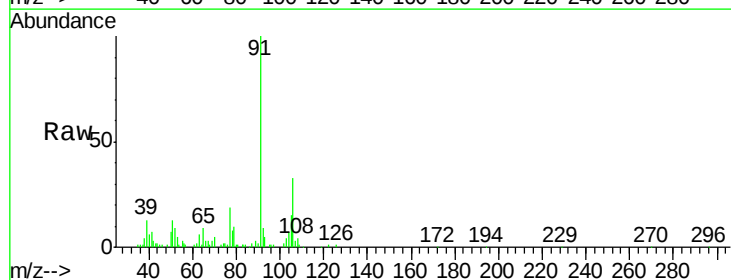
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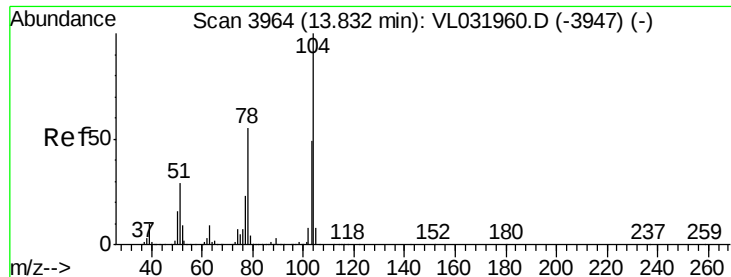
MMDadoda
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#60
o-Xylene
Concen: 0.26 ppbv
RT: 14.00 min Scan# 4015
Delta R.T. -0.00 min
Lab File: VL031977.D
Acq: 4 May 2018 00:43

Tgt Ion: 91 Resp: 73981
Ion Ratio Lower Upper
91 100
106 50.6 21.5 64.5





#61

Stvrene

Concen: 0.69 ppbv m

RT: 13.84 min Scan# 3965

Delta R.T. 0.00 min

Lab File: VL031977.D

Acq: 4 May 2018 00:43

Instrument :

MSVOA_L

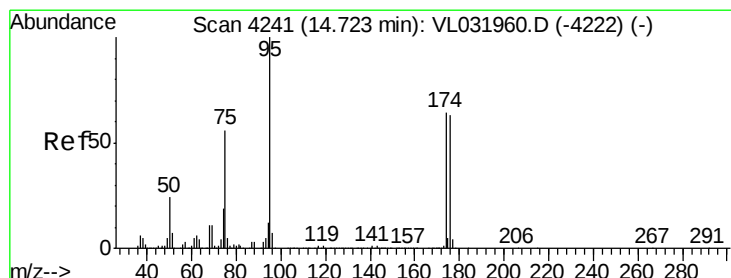
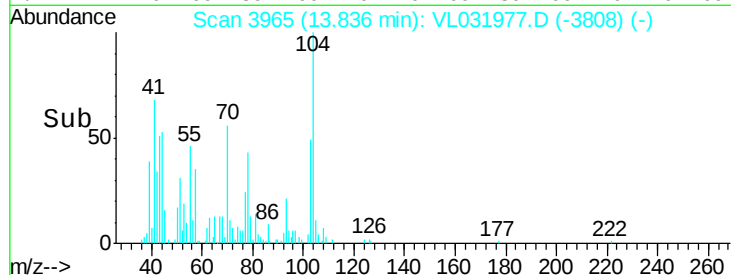
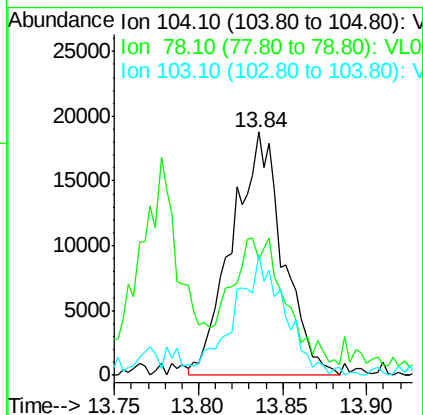
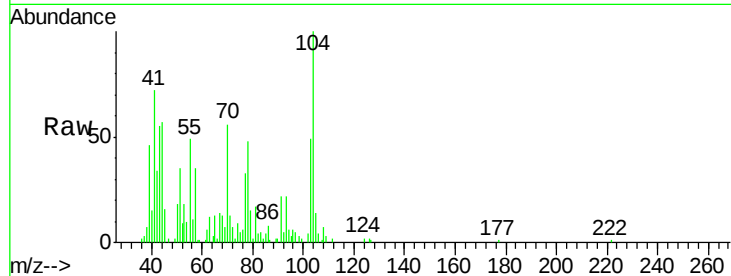
ClientSampled :

SG2

Tot Ion:	104	Resp:	39841
Ion Ratio	Lower	Upper	
104	100		
78	62.8	43.8	65.8
103	48.7	38.4	57.6

Manual Integrations
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5/4/2018 5:01:12 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.57 ppbv

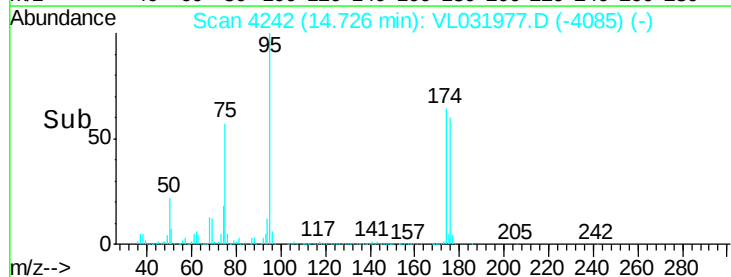
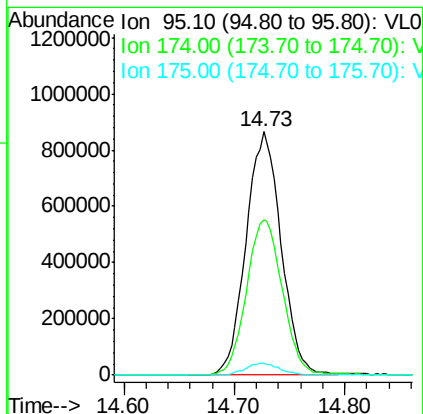
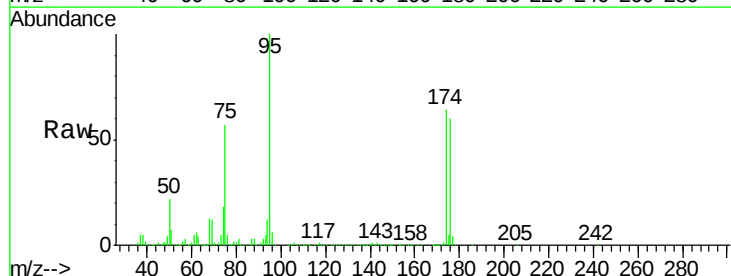
RT: 14.73 min Scan# 4242

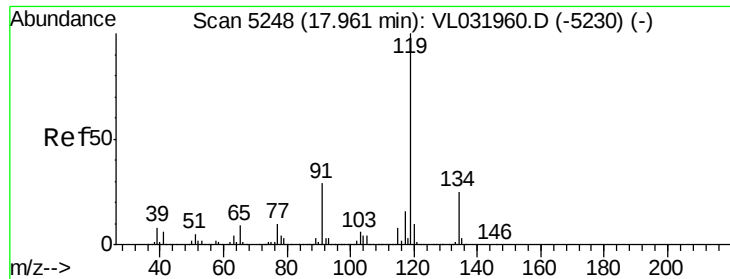
Delta R.T. 0.00 min

Lab File: VL031977.D

Acq: 4 May 2018 00:43

Tgt Ion:	95	Resp:	1904533
Ion Ratio	Lower	Upper	
95	100		
174	66.0	53.0	79.6
175	4.9	3.9	5.9





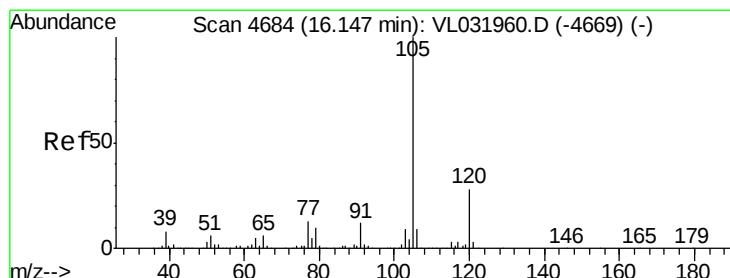
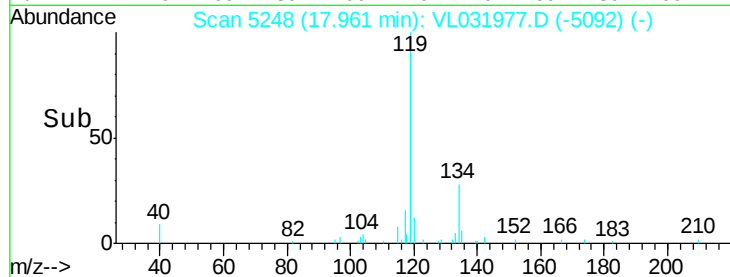
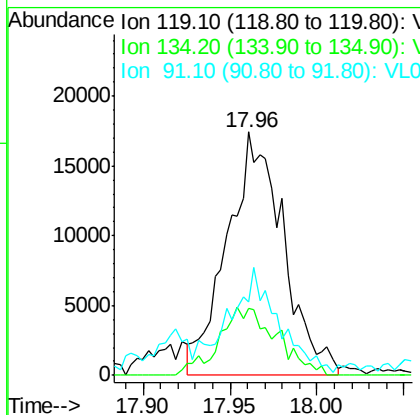
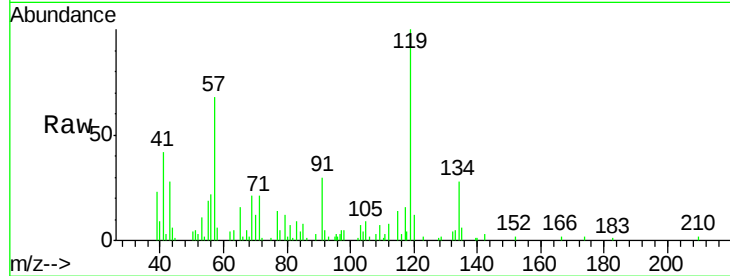
#69
p-Isopropyltoluene
Concen: 0.11 ppbv m
RT: 17.96 min Scan# 5248
Delta R.T. 0.00 min
Lab File: VL031977.D
Acq: 4 May 2018 00:43

Instrument :
MSVOA_L
ClientSampleId :
SG2

Tot Ion	Ratio	Resp	Lower	Upper
119	100	39082		
134	29.0	19.8	29.8	
91	0.0	23.8	35.6	

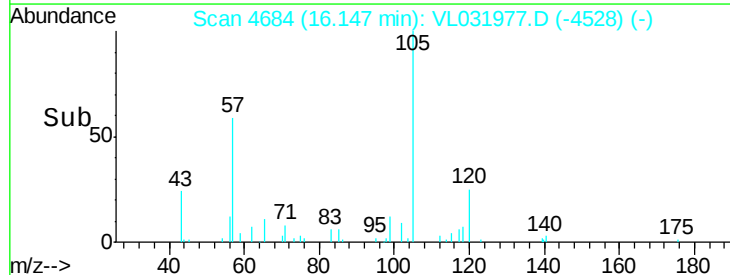
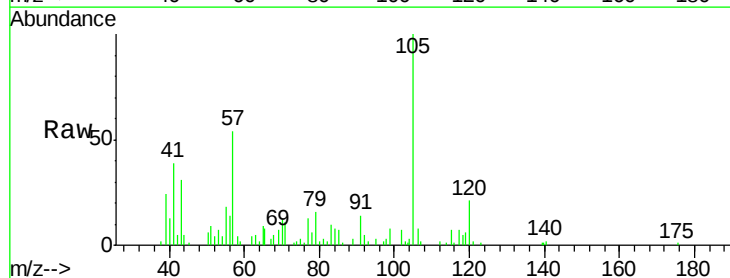
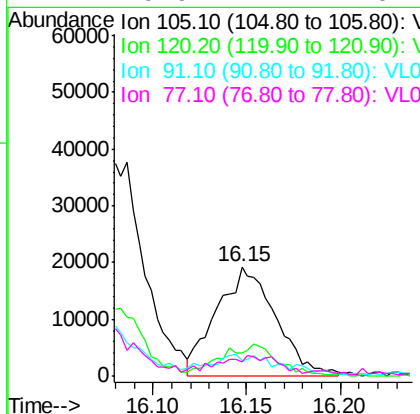
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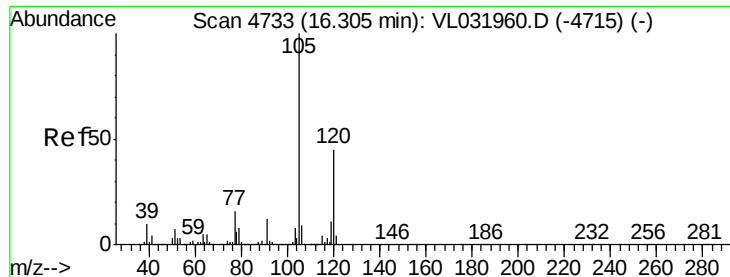
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5/4/2018 5:01:12 PM



#72
4-Ethyltoluene
Concen: 0.15 ppbv m
RT: 16.15 min Scan# 4684
Delta R.T. 0.00 min
Lab File: VL031977.D
Acq: 4 May 2018 00:43

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	42071		
120	27.5	22.6	33.8	
91	19.5	10.5	15.7	
77	19.9	11.1	16.7	





#73

1,3,5-Trimethylbenzene

Concen: 0.15 ppbv

RT: 16.30 min Scan# 4733

Delta R.T. 0.00 min

Lab File: VL031977.D

Acq: 4 May 2018 00:43

Instrument :

MSVOA_L

ClientSampled :

SG2

Tot Ion:105 Resp: 40867

Ion Ratio Lower Upper

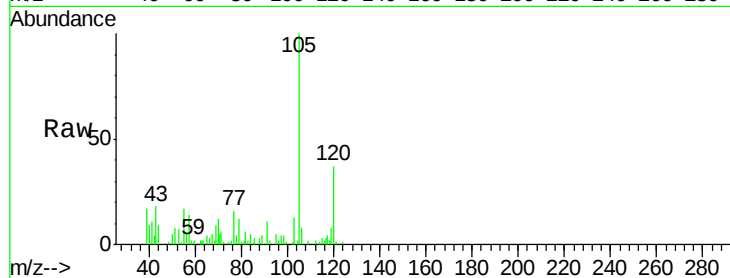
105 100

120 35.1 36.0 54.0#

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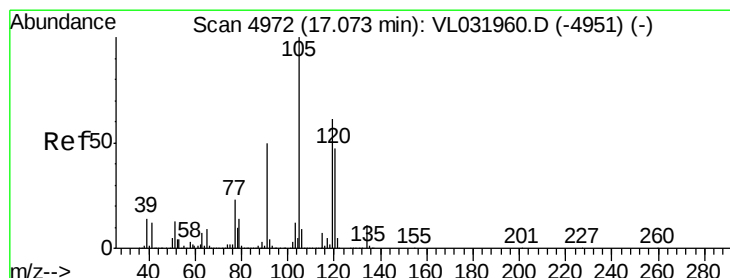
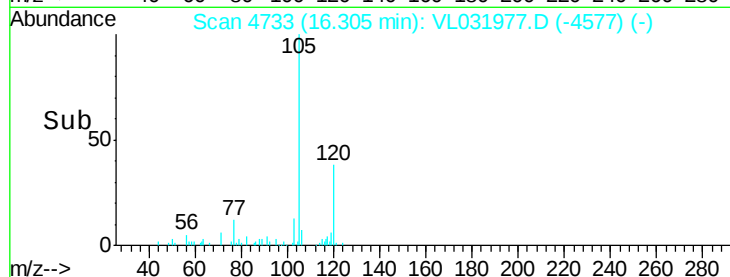
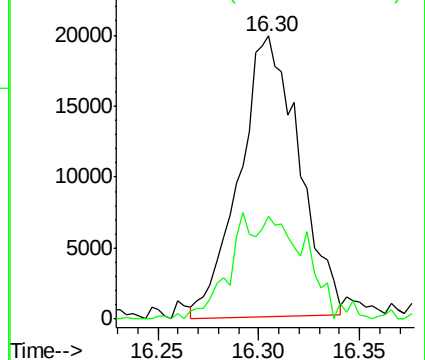
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.49 ppbv

RT: 17.08 min Scan# 4973

Delta R.T. 0.00 min

Lab File: VL031977.D

Acq: 4 May 2018 00:43

Tgt Ion:105 Resp: 144410

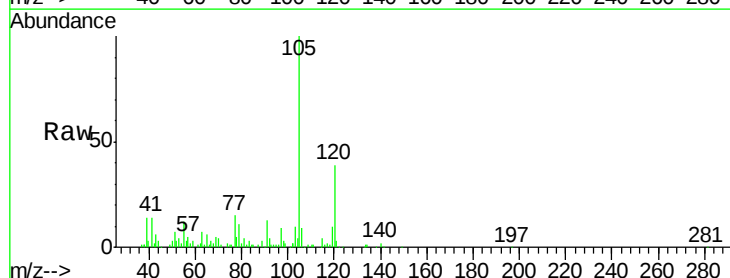
Ion Ratio Lower Upper

105 100

120 37.9 37.8 56.6

91 10.8 40.5 60.7#

77 13.2 18.2 27.2#



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

