

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031269.D
 Acq On : 20 Dec 2017 14:06
 Operator : SY/AP
 Sample : I6960-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 T5P2

Manual Integrations
 APPROVED

MMDadoda
 12/22/2017 4:54:45 PM

Quant Time: Dec 22 04:09:30 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1747436	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3984584	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3868828	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	3071293	11.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	54280	0.37	ppbv	95
4) Chloromethane	3.28	50	22039	0.21	ppbv	94
9) Propene	3.14	41	104363	1.07	ppbv	88
10) Heptane	8.41	43	28199m	0.10	ppbv	
11) Trichlorofluoromethane	4.13	101	59611	0.25	ppbv	100
13) Ethanol	3.78	45	81888	2.91	ppbv	99
15) Acetone	4.05	43	1837362	7.97	ppbv #	66
20) Methylene Chloride	4.54	84	132443	1.74	ppbv	91
26) Hexane	5.93	57	108806	0.49	ppbv #	45
34) 2-Butanone	5.49	43	69348	0.25	ppbv	95
35) Carbon Tetrachloride	7.30	117	15163m	0.05	ppbv	
36) Benzene	7.16	78	85624	0.20	ppbv #	93
37) 1,2-Dichloroethane	6.57	62	25978	0.11	ppbv	97
53) Toluene	10.12	91	884452	1.93	ppbv	98
58) Ethyl Benzene	13.04	91	206502	0.32	ppbv	96
59) m/p-Xylene	13.30	91	392166	0.77	ppbv	98
60) o-Xylene	14.02	91	141836m	0.28	ppbv	
61) Styrene	13.86	104	297674	2.01	ppbv	96
62) Isopropylbenzene	15.00	105	5218580	7.72	ppbv	99
76) 1,4-Dichlorobenzene	17.49	146	33187	0.10	ppbv #	68

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

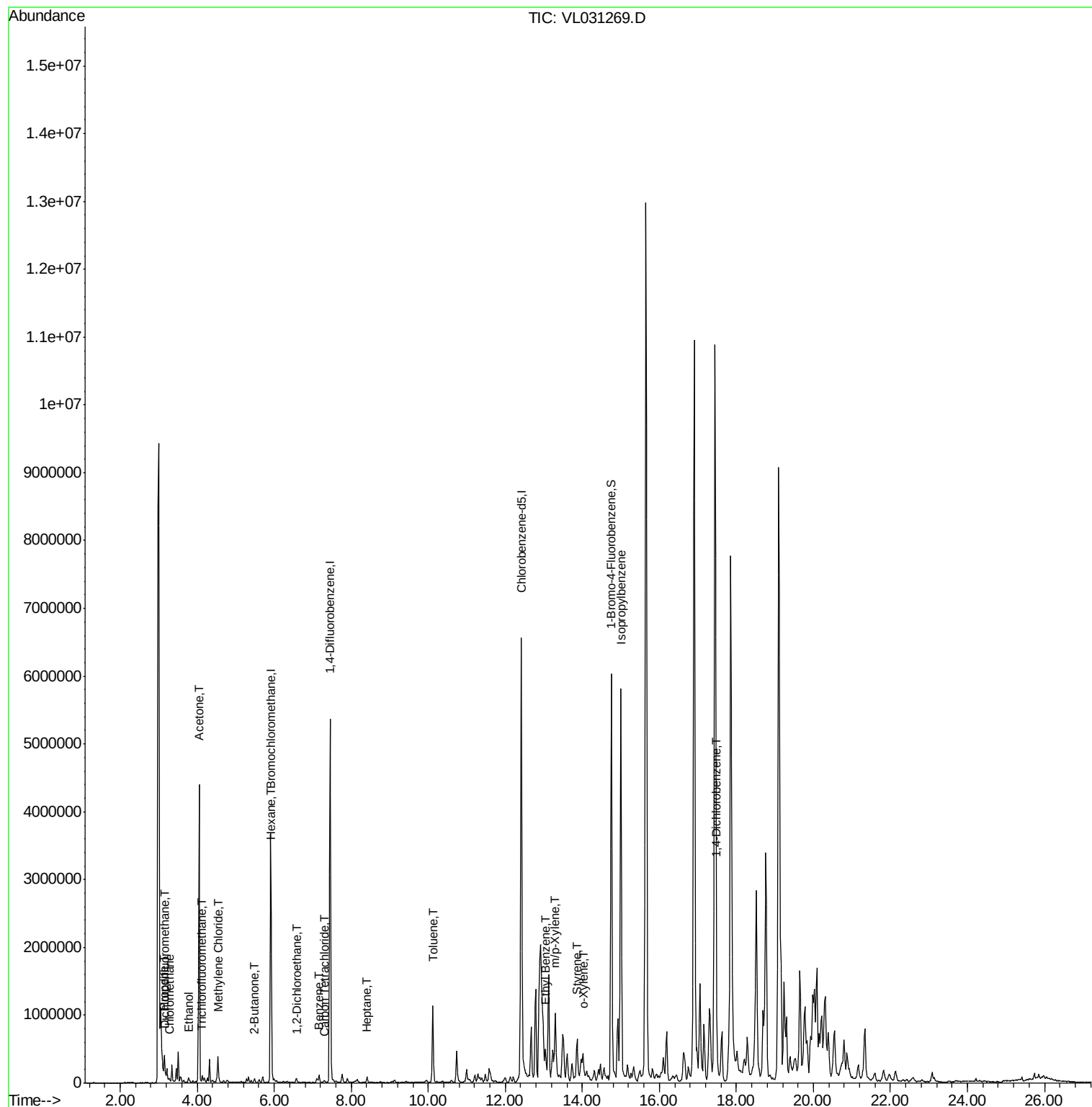
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
Data File : VL031269.D
Acq On : 20 Dec 2017 14:06
Operator : SY/AP
Sample : I6960-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

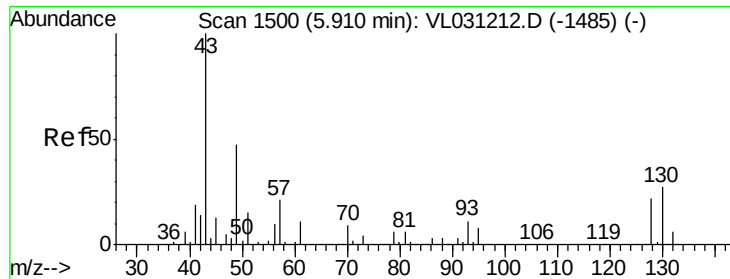
Instrument :
MSVOA_L
ClientSampleId :
T5P2

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Quant Time: Dec 22 04:09:30 2017
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec
QLast Update : Thu Dec 14 04:29:58 2017
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VL031269.D

Acq: 20 Dec 2017 14:06

Instrument :

MSVOA_L

ClientSampleId :

T5P2

Tot Ion: 49 Resp: 1747436

Ion Ratio Lower Upper

49 100

128 47.2 23.2 69.5

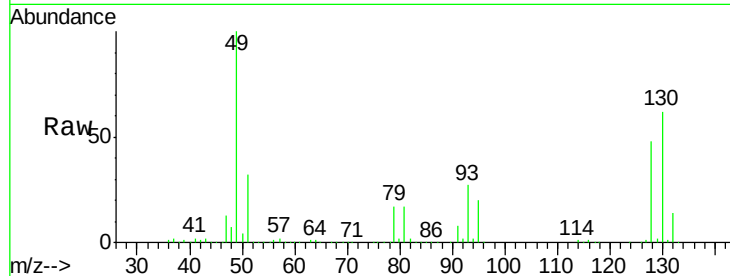
130 60.1 29.6 88.8

Manual Integrations

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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

5.91

1200000

1000000

800000

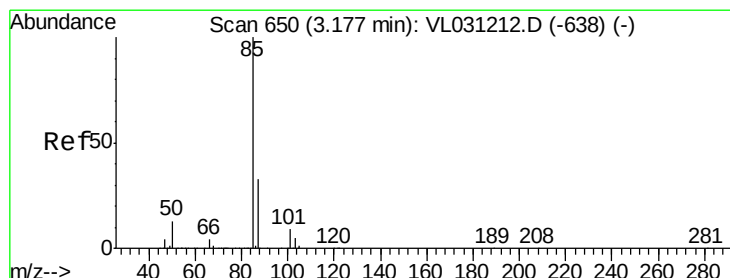
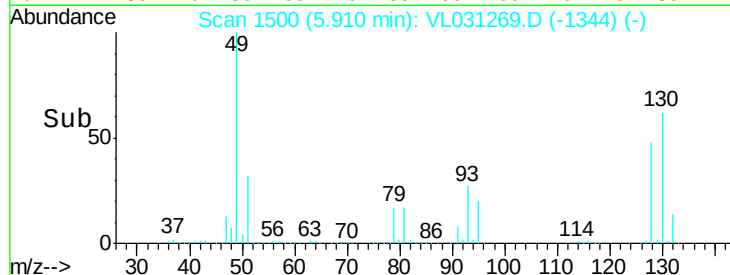
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.37 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031269.D

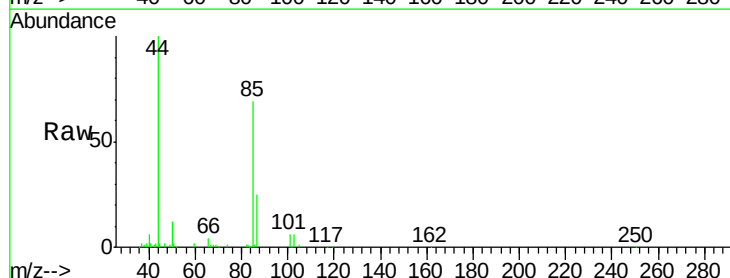
Acq: 20 Dec 2017 14:06

Tgt Ion: 85 Resp: 54280

Ion Ratio Lower Upper

85 100

87 35.4 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.18

40000

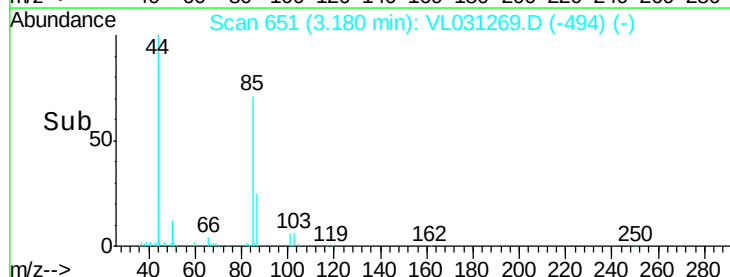
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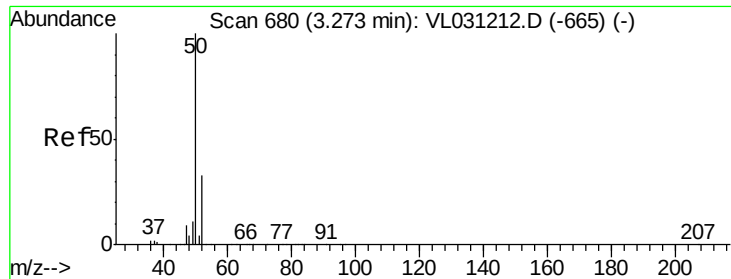
20000

10000

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Time-->





#4

Chloromethane

Concen: 0.21 ppbv

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031269.D

Acq: 20 Dec 2017 14:06

Instrument :

MSVOA_L

ClientSampleId :

T5P2

Tot Ion: 50 Resp: 22039

Ion Ratio Lower Upper

50 100

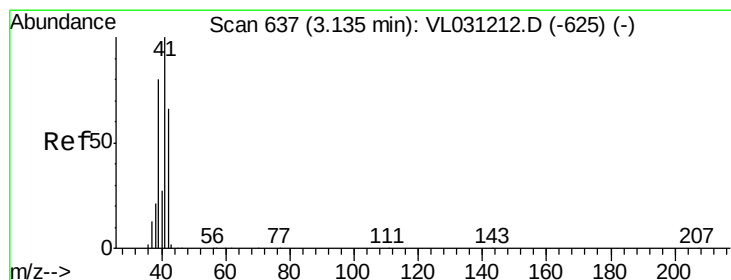
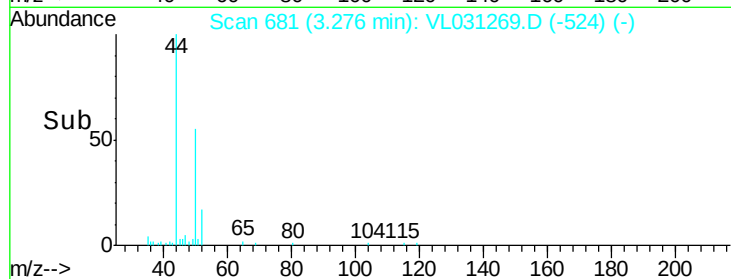
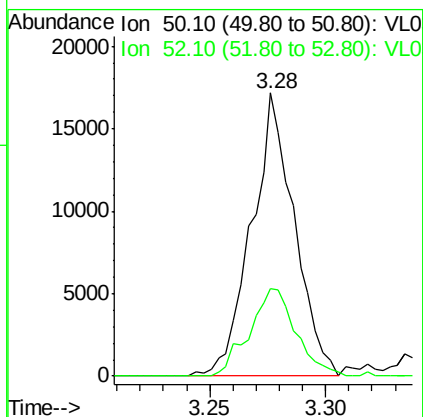
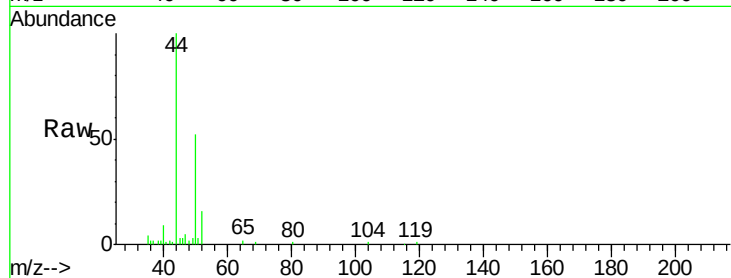
52 29.5 26.5 39.7

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#9

Propene

Concen: 1.07 ppbv

RT: 3.14 min Scan# 639

Delta R.T. 0.01 min

Lab File: VL031269.D

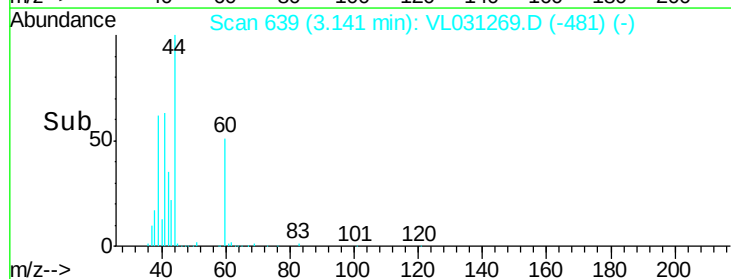
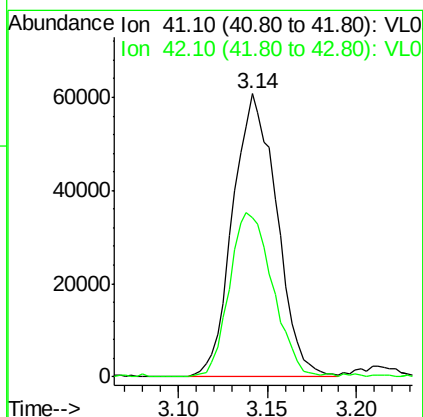
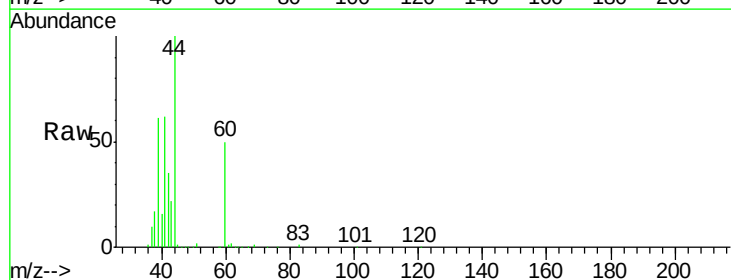
Acq: 20 Dec 2017 14:06

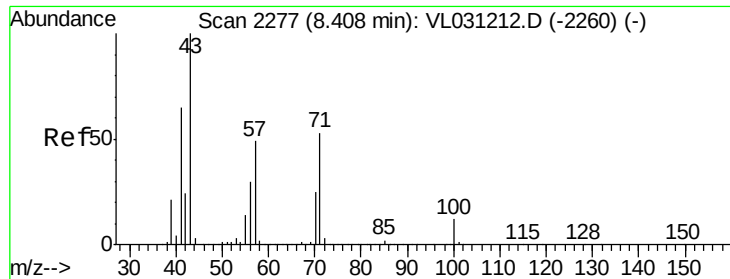
Tgt Ion: 41 Resp: 104363

Ion Ratio Lower Upper

41 100

42 57.9 54.3 81.5





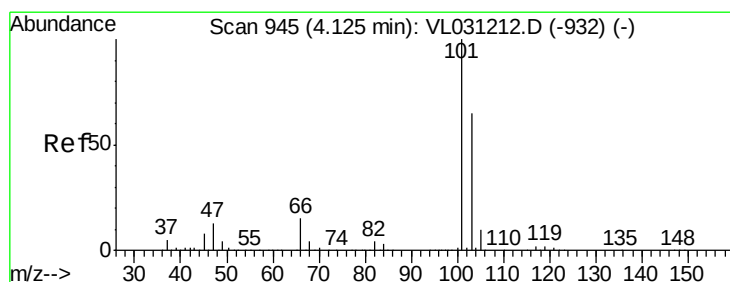
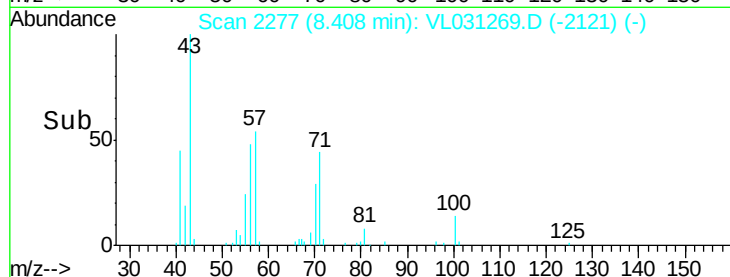
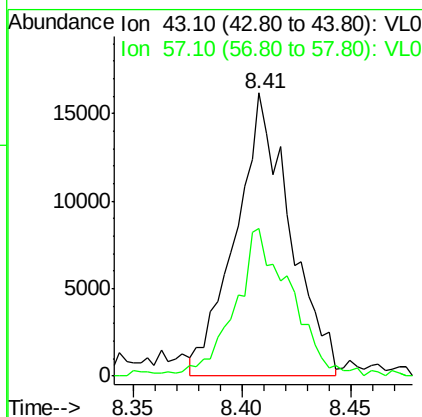
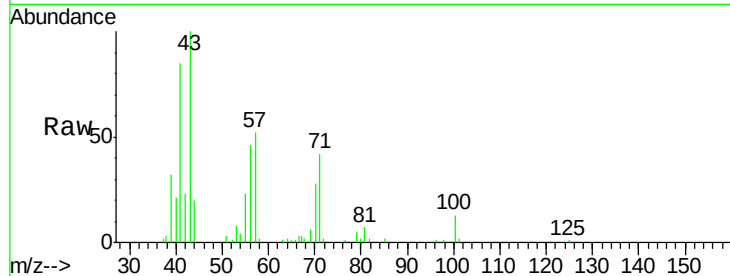
#10
Heptane
Concen: 0.10 ppbv m
RT: 8.41 min Scan# 2277
Delta R.T. 0.00 min
Lab File: VL031269.D
Acq: 20 Dec 2017 14:06

Instrument :
MSVOA_L
ClientSampleId :
T5P2

Tot Ion: 43 Resp: 28199
Ion Ratio Lower Upper
43 100
57 54.2 39.8 59.8

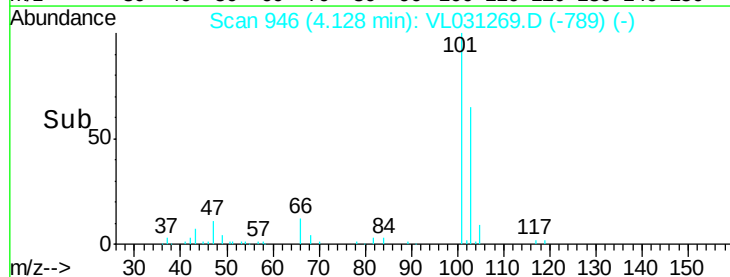
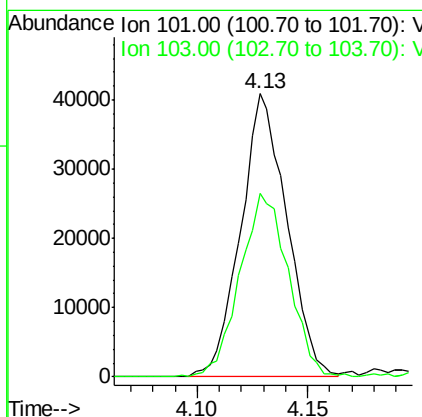
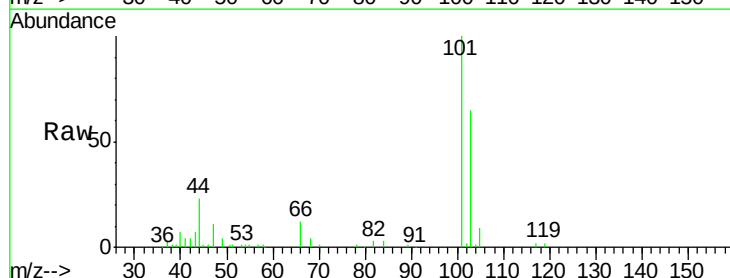
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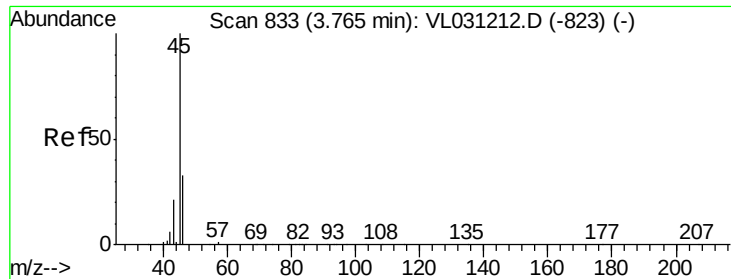
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#11
Trichlorofluoromethane
Concen: 0.25 ppbv
RT: 4.13 min Scan# 946
Delta R.T. 0.00 min
Lab File: VL031269.D
Acq: 20 Dec 2017 14:06

Tgt Ion: 101 Resp: 59611
Ion Ratio Lower Upper
101 100
103 64.6 51.8 77.8





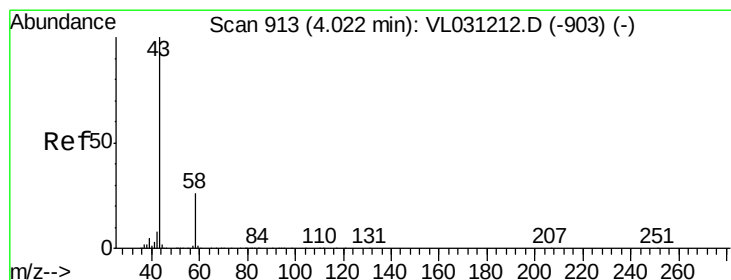
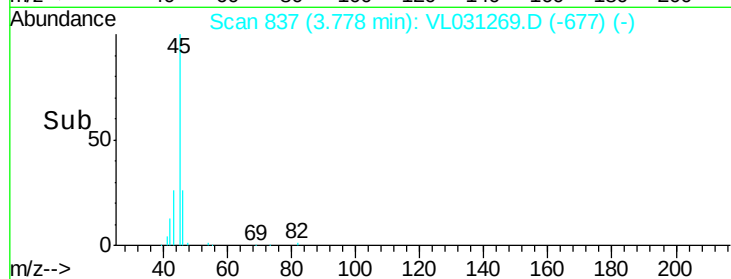
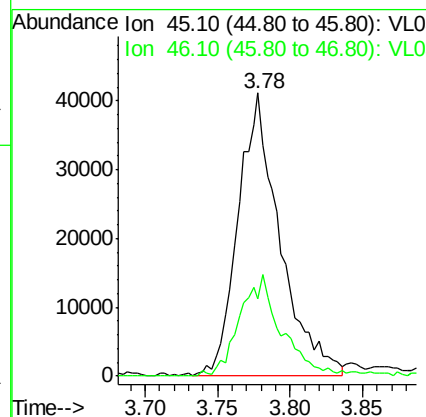
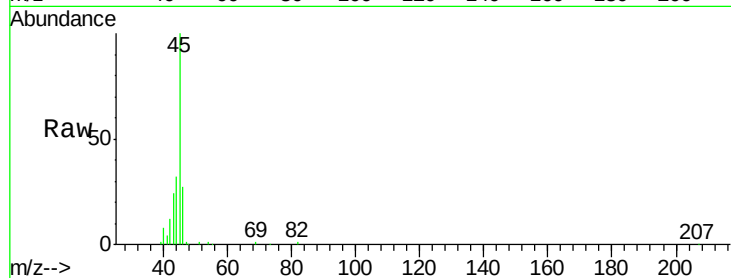
#13
Ethanol
Concen: 2.91 ppbv
RT: 3.78 min Scan# 837
Delta R.T. 0.01 min
Lab File: VL031269.D
Acq: 20 Dec 2017 14:06

Instrument :
MSVOA_L
ClientSampleId :
T5P2

Tot Ion	45	46	Ratio	Lower	Upper
81888	100	37.0		14.6	58.4

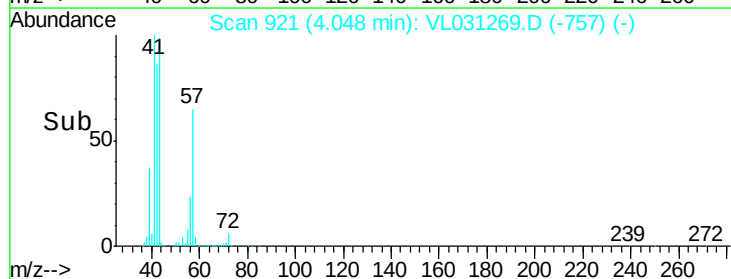
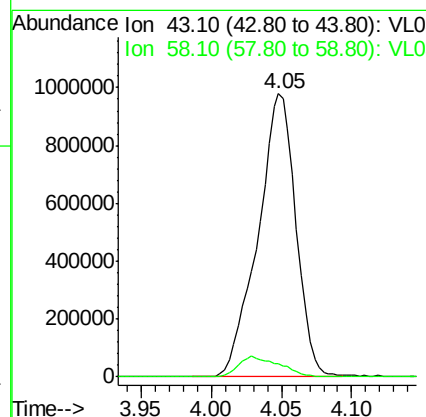
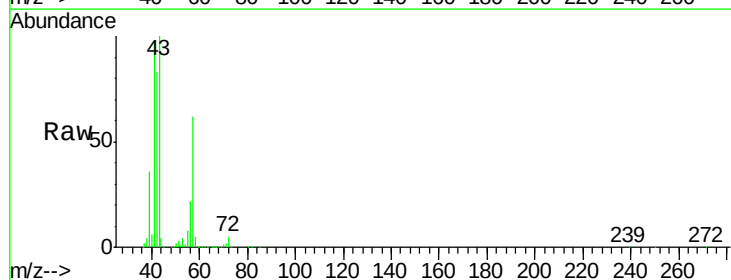
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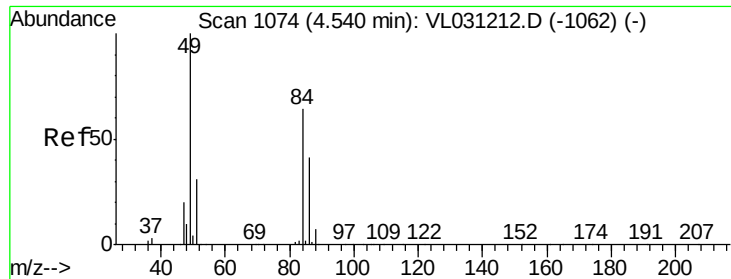
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#15
Acetone
Concen: 7.97 ppbv
RT: 4.05 min Scan# 921
Delta R.T. 0.03 min
Lab File: VL031269.D
Acq: 20 Dec 2017 14:06

Tgt Ion	43	58	Ratio	Lower	Upper
1837362	100	8.0		20.3	30.5#





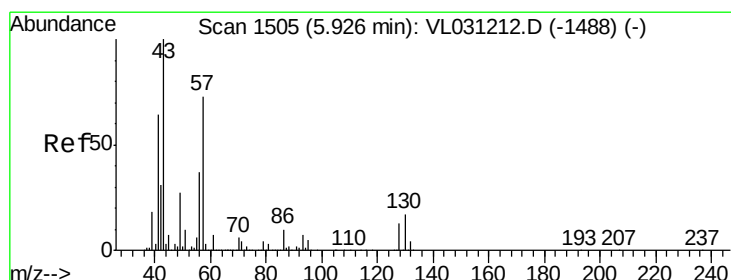
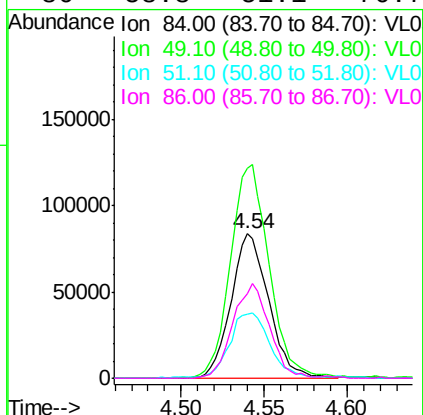
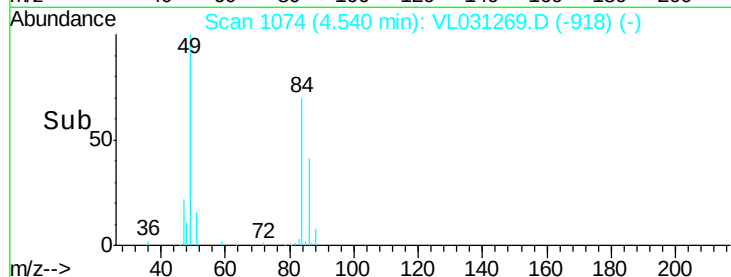
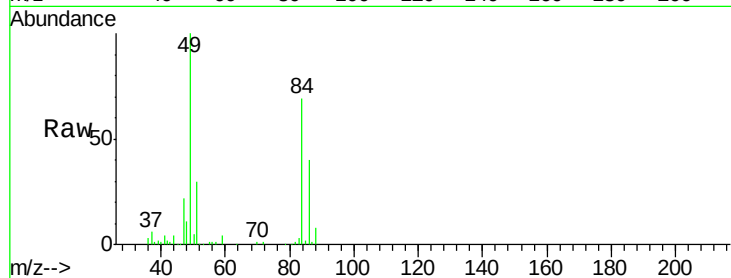
#20
Methvlene Chloride
Concen: 1.74 ppbv
RT: 4.54 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VL031269.D
Acq: 20 Dec 2017 14:06

Instrument :
MSVOA_L
ClientSampled :
T5P2

Tot Ion	Ratio	Lower	Upper
84	100		
49	145.1	125.8	188.6
51	43.2	39.3	58.9
86	58.8	51.1	76.7

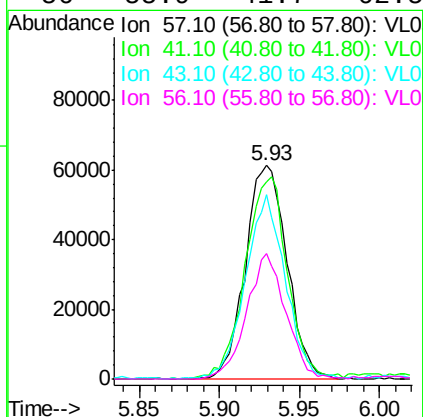
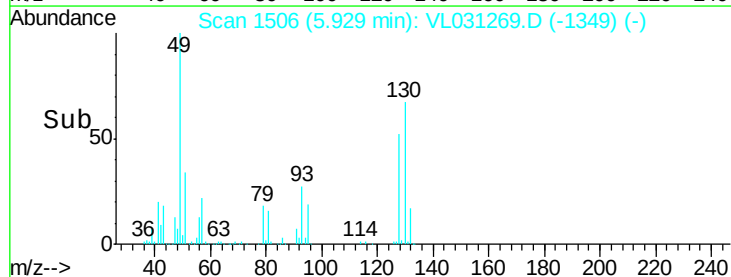
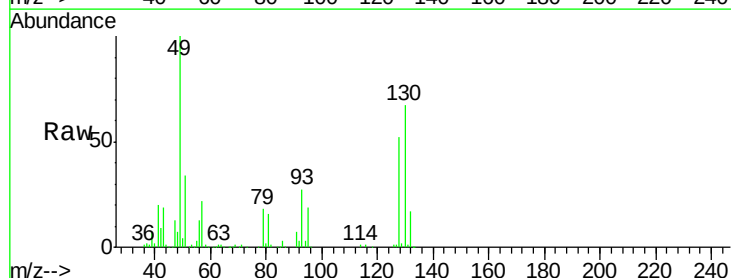
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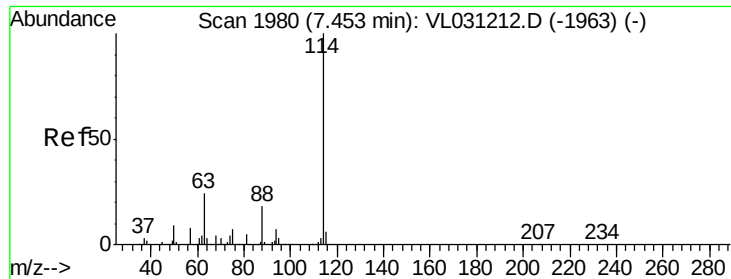
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#26
Hexane
Concen: 0.49 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031269.D
Acq: 20 Dec 2017 14:06

Tgt Ion	Ratio	Lower	Upper
57	100		
41	98.5	70.3	105.5
43	81.8	173.8	260.8#
56	55.9	41.7	62.5





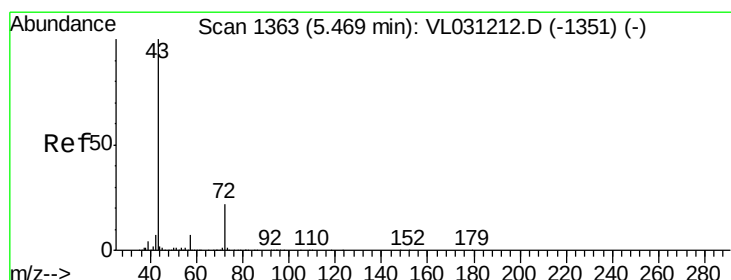
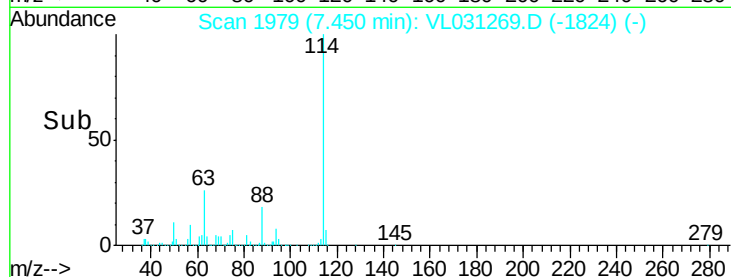
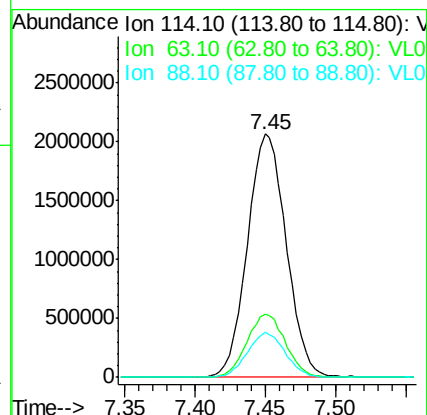
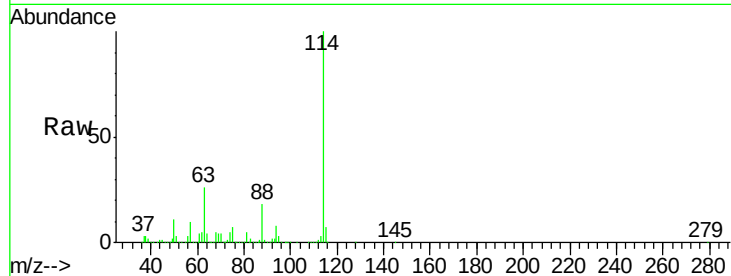
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VL031269.D
 Acq: 20 Dec 2017 14:06

Instrument :
 MSVOA_L
 ClientSampled :
 T5P2

Tot Ion:114 Resp: 3984584
 Ion Ratio Lower Upper
 114 100
 63 26.1 19.8 29.8
 88 18.1 14.2 21.4

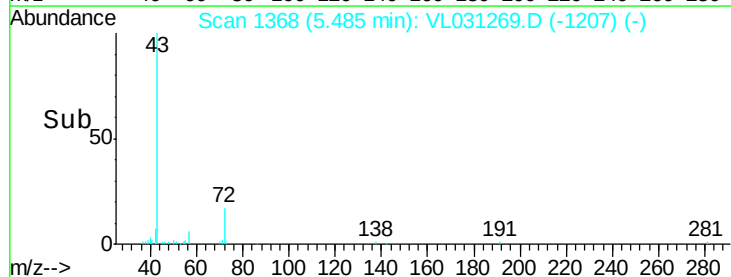
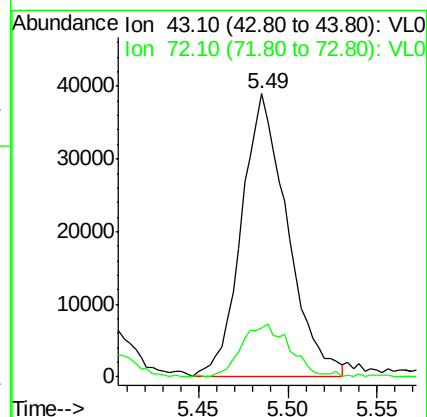
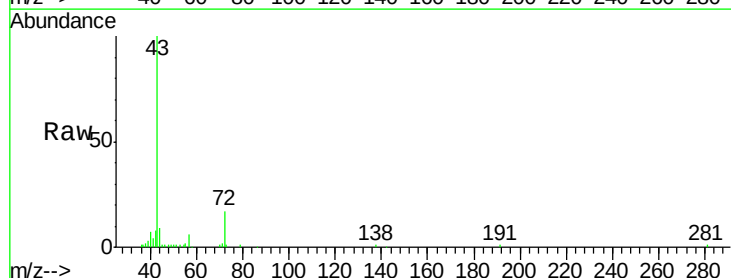
Manual Integrations
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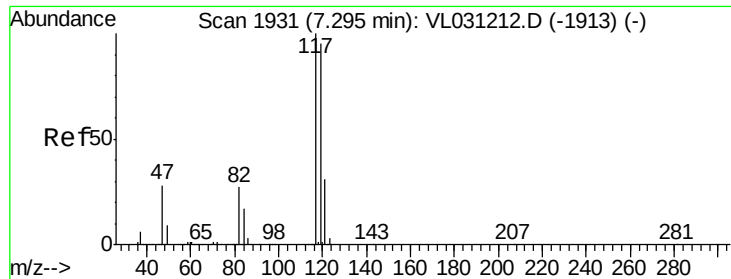
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#34
 2-Butanone
 Concen: 0.25 ppbv
 RT: 5.49 min Scan# 1368
 Delta R.T. 0.02 min
 Lab File: VL031269.D
 Acq: 20 Dec 2017 14:06

Tgt Ion: 43 Resp: 69348
 Ion Ratio Lower Upper
 43 100
 72 20.3 18.1 27.1





#35

Carbon Tetrachloride

Concen: 0.05 ppbv m

RT: 7.30 min Scan# 1932

Delta R.T. 0.00 min

Lab File: VL031269.D

Acq: 20 Dec 2017 14:06

Instrument :

MSVOA_L

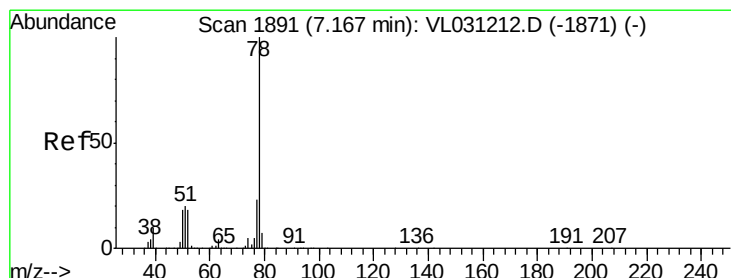
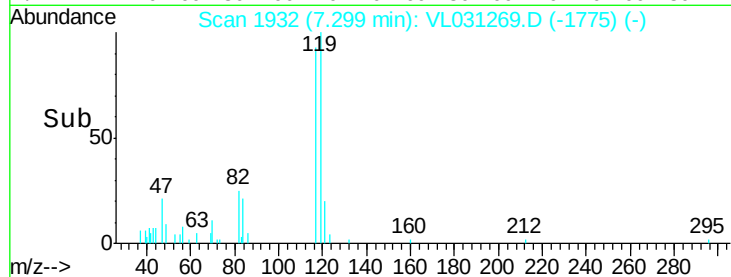
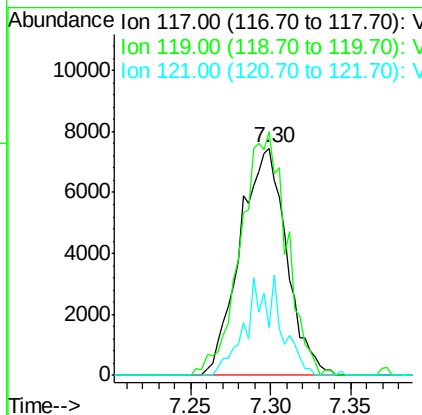
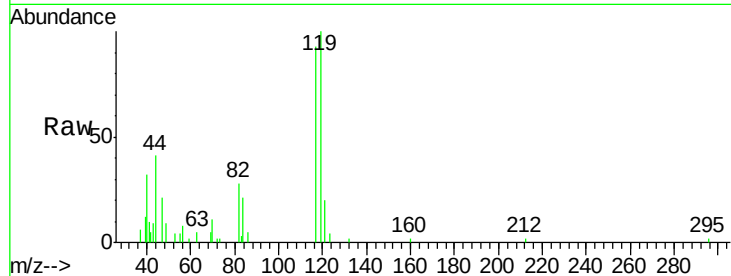
ClientSampled :

T5P2

Tot Ion	Ratio	Lower	Upper
117	100		
119	107.2	75.9	113.9
121	21.3	24.6	37.0

Manual Integrations
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#36

Benzene

Concen: 0.20 ppbv

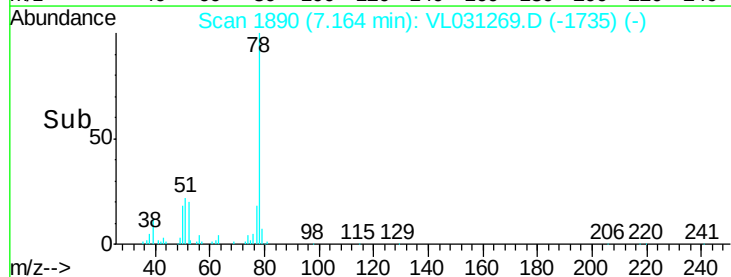
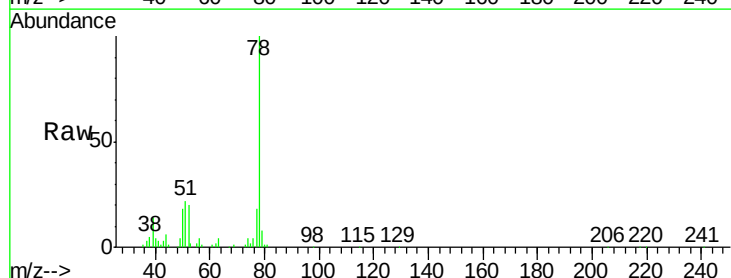
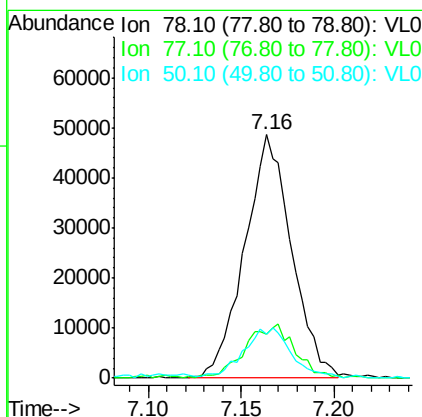
RT: 7.16 min Scan# 1890

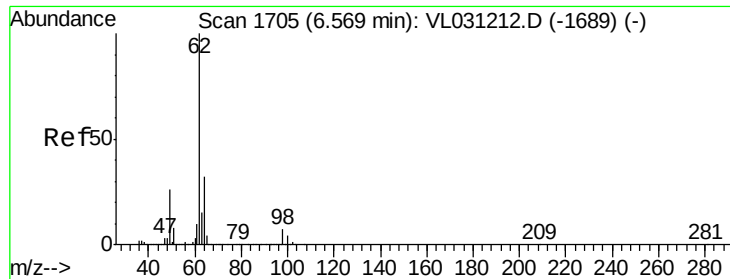
Delta R.T. -0.00 min

Lab File: VL031269.D

Acq: 20 Dec 2017 14:06

Tgt Ion	Ratio	Lower	Upper
78	100		
77	17.3	18.1	27.1
50	17.4	14.6	21.8





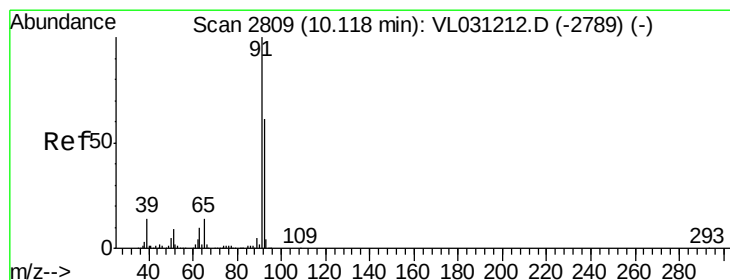
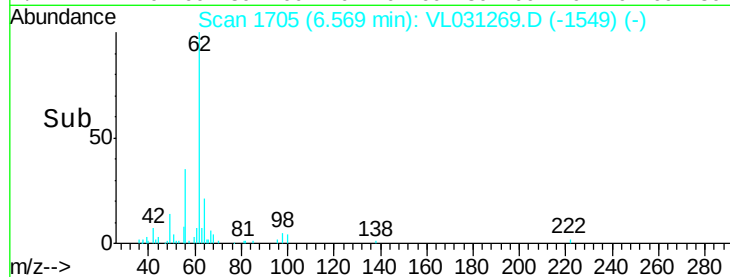
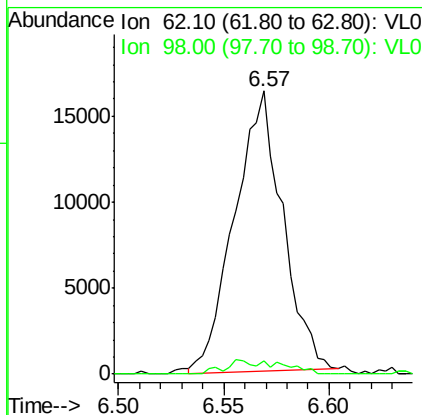
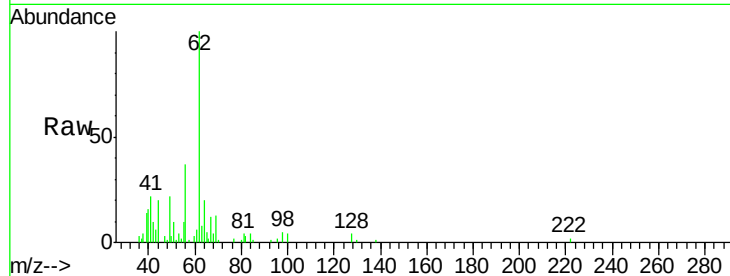
#37
 1,2-Dichloroethane
 Concen: 0.11 ppbv
 RT: 6.57 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VL031269.D
 Acq: 20 Dec 2017 14:06

Instrument :
 MSVOA_L
 ClientSampleId :
 T5P2

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.9	5.4	8.2

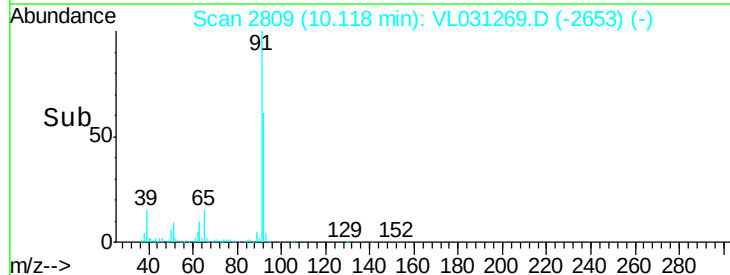
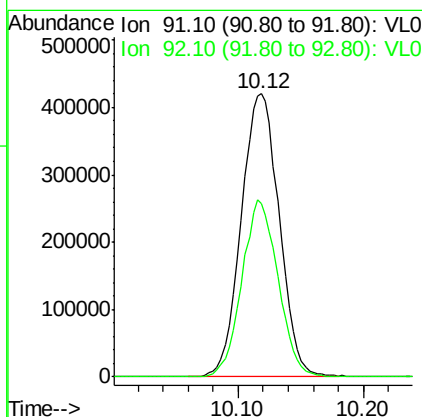
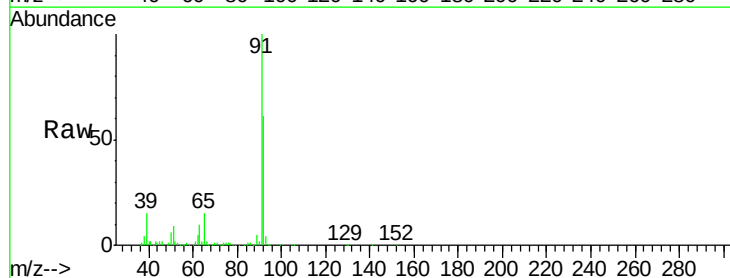
Manual Integrations
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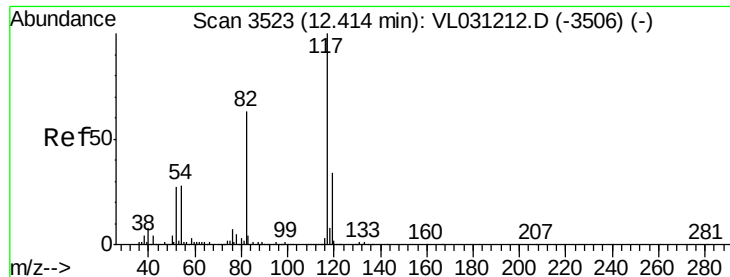
MMDadoda
 12/22/2017 4:54:45 PM



#53
 Toluene
 Concen: 1.93 ppbv
 RT: 10.12 min Scan# 2809
 Delta R.T. 0.00 min
 Lab File: VL031269.D
 Acq: 20 Dec 2017 14:06

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.8	49.1	73.7





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.41 min Scan# 3523

Delta R.T. 0.00 min

Lab File: VL031269.D

Acq: 20 Dec 2017 14:06

Instrument :

MSVOA_L

ClientSampled :

T5P2

Tot Ion:117 Resp: 3868828

Ion Ratio Lower Upper

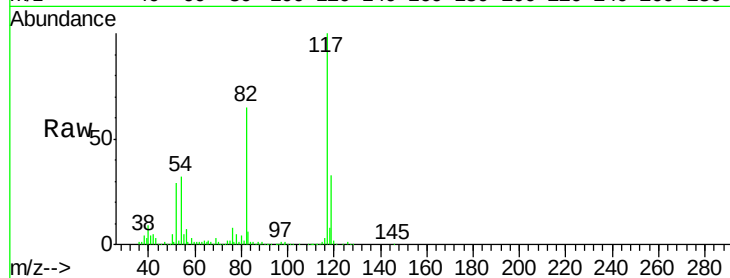
117 100

82 65.6 48.1 72.1

119 33.0 23.1 34.7

Manual Integrations
APPROVED

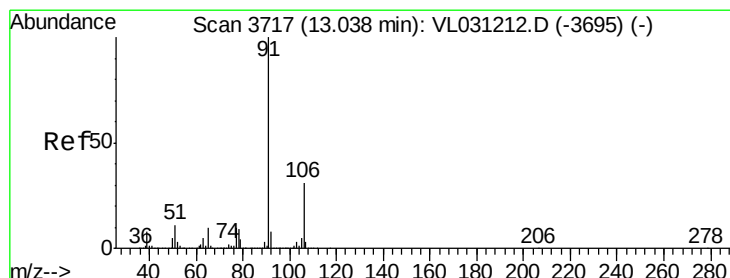
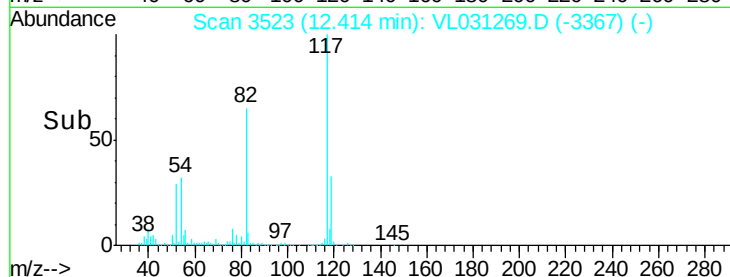
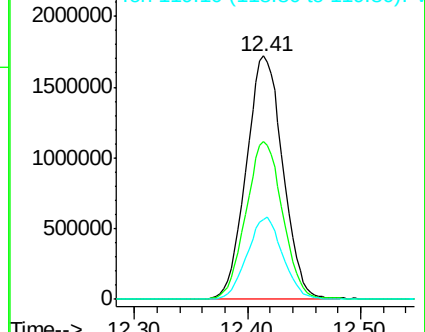
MMDadoda
12/22/2017 4:54:45 PM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.32 ppbv

RT: 13.04 min Scan# 3717

Delta R.T. 0.00 min

Lab File: VL031269.D

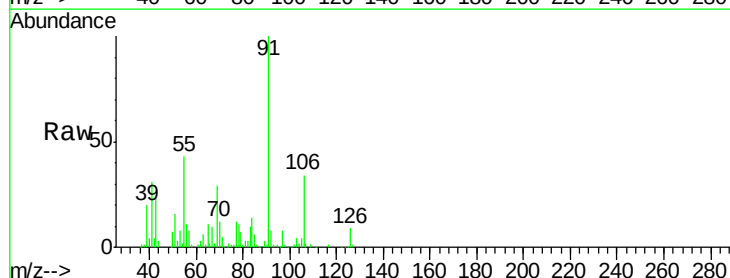
Acq: 20 Dec 2017 14:06

Tgt Ion: 91 Resp: 206502

Ion Ratio Lower Upper

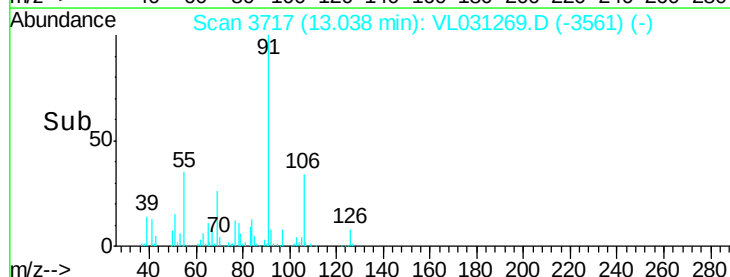
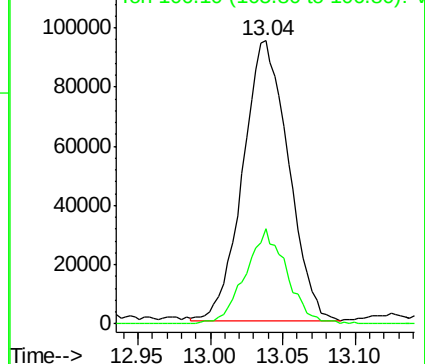
91 100

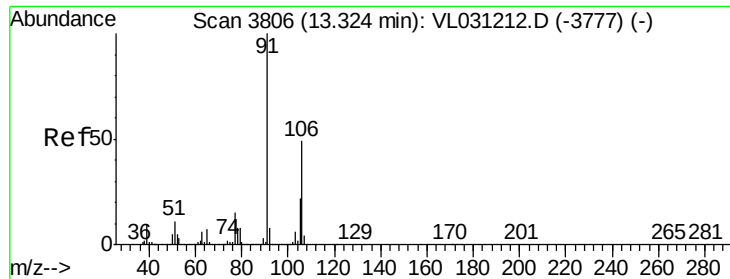
106 33.6 25.1 37.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





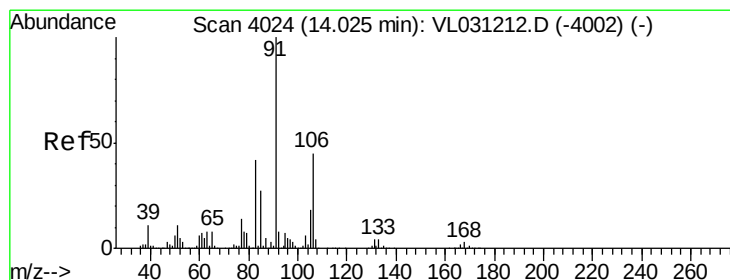
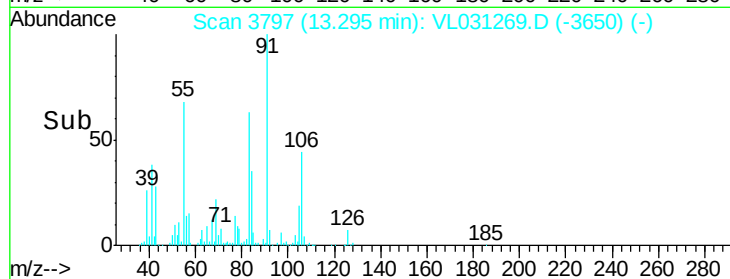
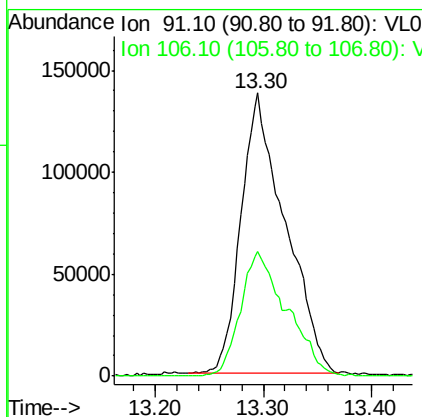
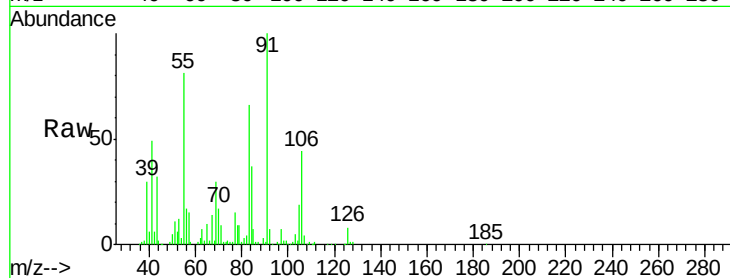
#59
m/p-Xylene
Concen: 0.77 ppbv
RT: 13.30 min Scan# 3797
Delta R.T. -0.03 min
Lab File: VL031269.D
Acq: 20 Dec 2017 14:06

Instrument :
MSVOA_L
ClientSampled :
T5P2

Tot Ion: 91 Resp: 392166
Ion Ratio Lower Upper
91 100
106 46.5 38.5 57.7

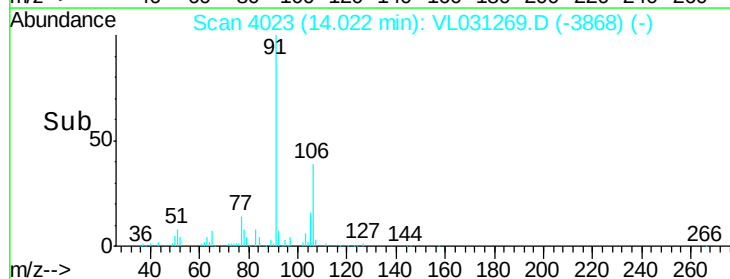
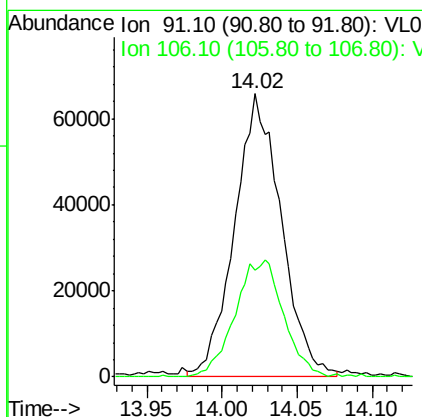
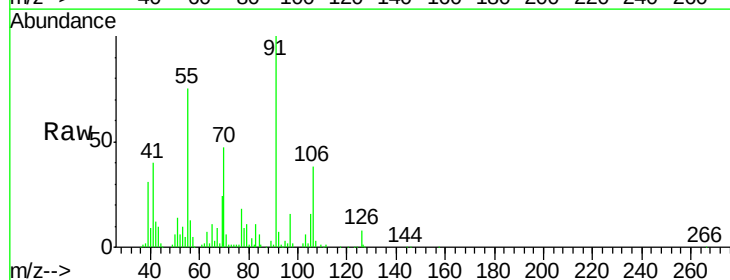
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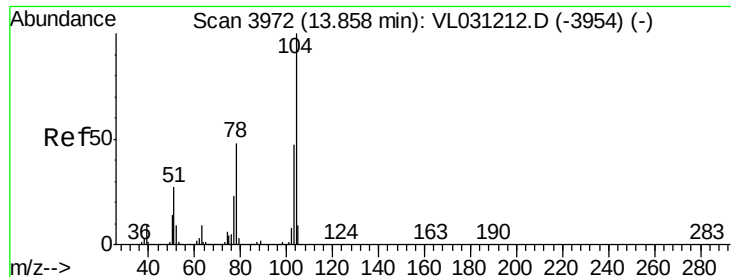
MMDadoda
12/22/2017 4:54:45 PM



#60
o-Xylene
Concen: 0.28 ppbv m
RT: 14.02 min Scan# 4023
Delta R.T. -0.00 min
Lab File: VL031269.D
Acq: 20 Dec 2017 14:06

Tgt Ion: 91 Resp: 141836
Ion Ratio Lower Upper
91 100
106 0.0 22.7 68.1#





#61

Stvrene

Concen: 2.01 ppbv

RT: 13.86 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VL031269.D

Acq: 20 Dec 2017 14:06

Instrument :

MSVOA_L

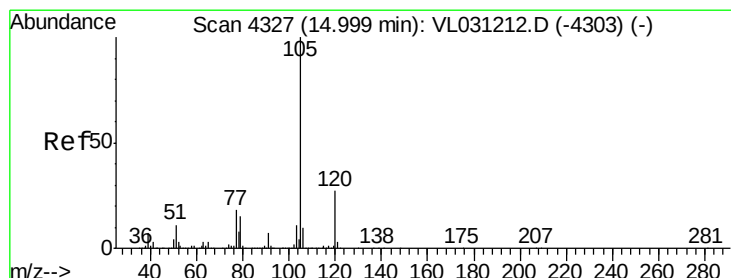
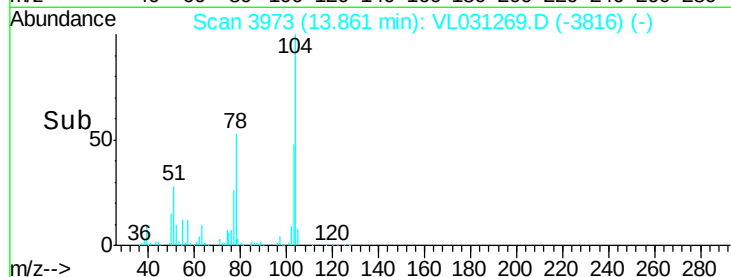
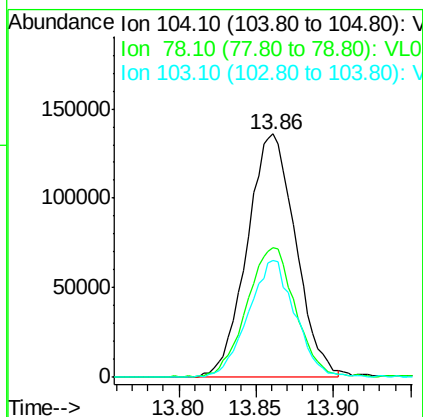
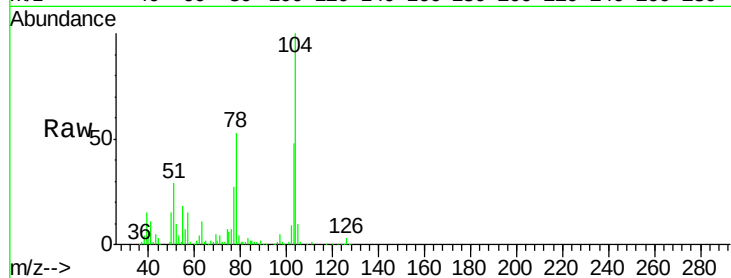
ClientSampled :

T5P2

Tot Ion:	104	Resp:	297674
Ion Ratio	Lower	Upper	
104	100		
78	53.9	39.1	58.7
103	46.5	37.3	55.9

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#62

Isopropylbenzene

Concen: 7.72 ppbv

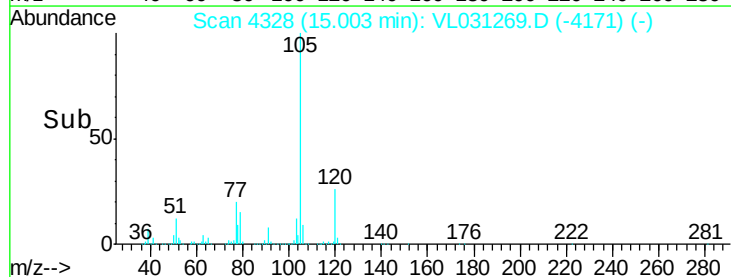
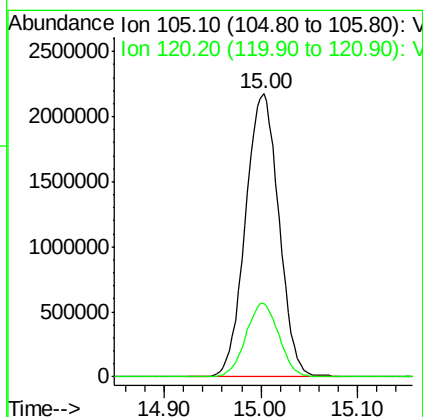
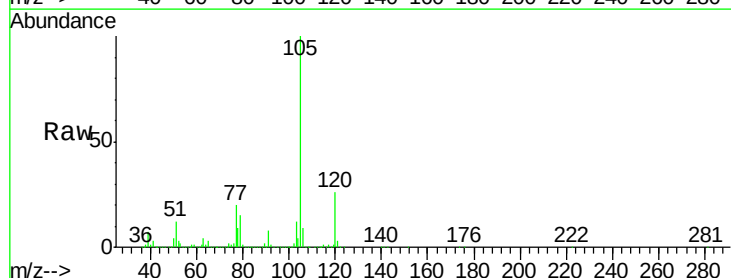
RT: 15.00 min Scan# 4328

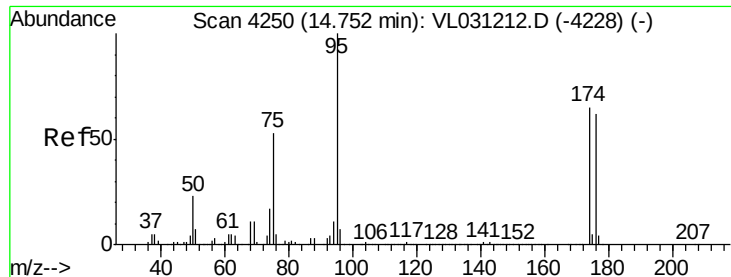
Delta R.T. 0.00 min

Lab File: VL031269.D

Acq: 20 Dec 2017 14:06

Tgt Ion:	105	Resp:	5218580
Ion Ratio	Lower	Upper	
105	100		
120	25.7	21.0	31.6





#68

1-Bromo-4-Fluorobenzene

Concen: 11.16 ppbv

RT: 14.75 min Scan# 4250

Delta R.T. 0.00 min

Lab File: VL031269.D

Acq: 20 Dec 2017 14:06

Instrument :

MSVOA_L

ClientSampleId :

T5P2

Tot Ion: 95 Resp: 3071293

Ion Ratio Lower Upper

95 100

174 61.6 52.5 78.7

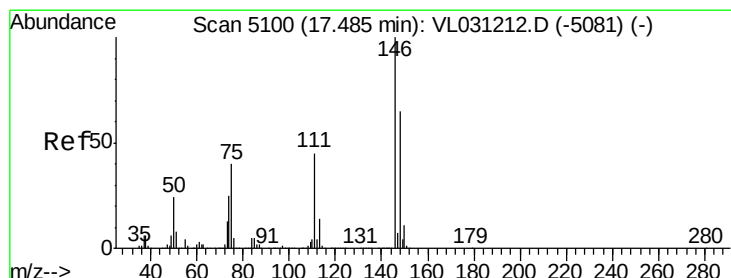
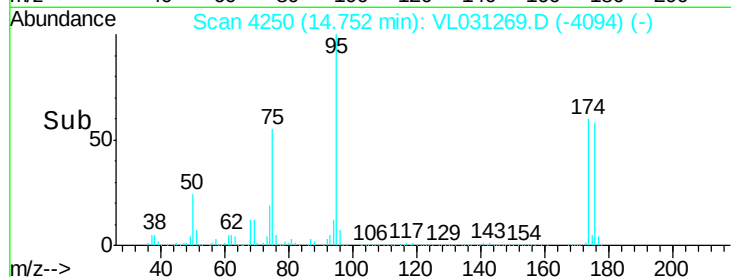
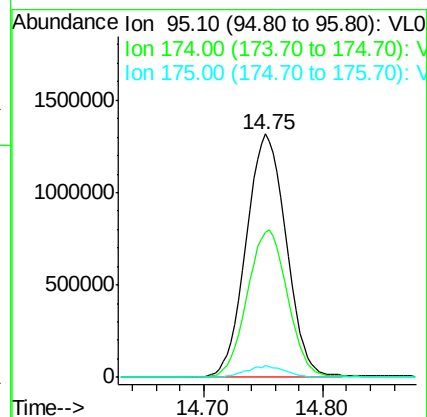
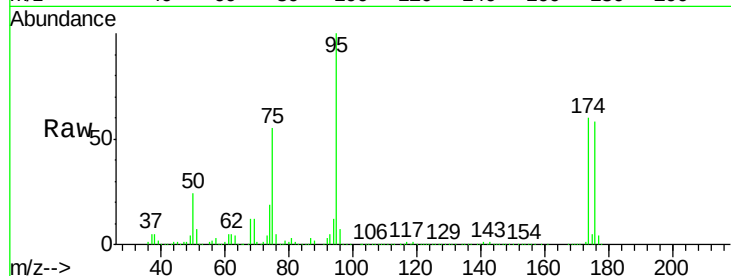
175 4.6 4.1 6.1

Manual Integrations

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#76

1,4-Dichlorobenzene

Concen: 0.10 ppbv

RT: 17.49 min Scan# 5101

Delta R.T. 0.00 min

Lab File: VL031269.D

Acq: 20 Dec 2017 14:06

Tgt Ion: 146 Resp: 33187

Ion Ratio Lower Upper

146 100

111 94.3 22.1 66.1#

148 65.1 32.0 96.0

