

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031270.D
 Acq On : 20 Dec 2017 14:46
 Operator : SY/AP
 Sample : I6960-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 T5P1

Manual Integrations
 APPROVED

MMDadoda
 12/22/2017 4:54:47 PM

Quant Time: Dec 22 04:17:14 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	1675681	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.46	114	3966707	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3731661	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2890656	10.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.17	85	43791m	0.31	ppbv	
8) Dichlorotetrafluoroethane	3.32	85	76088	0.39	ppbv	92
11) Trichlorofluoromethane	4.14	101	114946	0.49	ppbv	99
15) Acetone	4.03	43	879769	3.98	ppbv	93
20) Methylene Chloride	4.55	84	111909	1.53	ppbv	98
26) Hexane	5.94	57	82129	0.38	ppbv #	61
29) Chloroform	6.00	83	197365	0.68	ppbv	93
34) 2-Butanone	5.47	43	652760	2.33	ppbv	99
35) Carbon Tetrachloride	7.31	117	187715m	0.66	ppbv	
36) Benzene	7.17	78	63597	0.15	ppbv	95
38) Trichloroethene	8.13	130	253743	1.55	ppbv	98
41) Tetrahydrofuran	6.30	42	1509814	9.58	ppbv	99
52) Tetrachloroethene	11.56	164	9045407	58.32	ppbv	98
53) Toluene	10.12	91	611593	1.34	ppbv	98
57) Chlorobenzene	12.48	112	38308m	0.11	ppbv	
59) m/p-Xylene	13.30	91	124913m	0.25	ppbv	
60) o-Xylene	14.03	91	52593	0.11	ppbv	99
74) 1,2,4-Trimethylbenzene	17.10	105	73928m	0.14	ppbv	

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

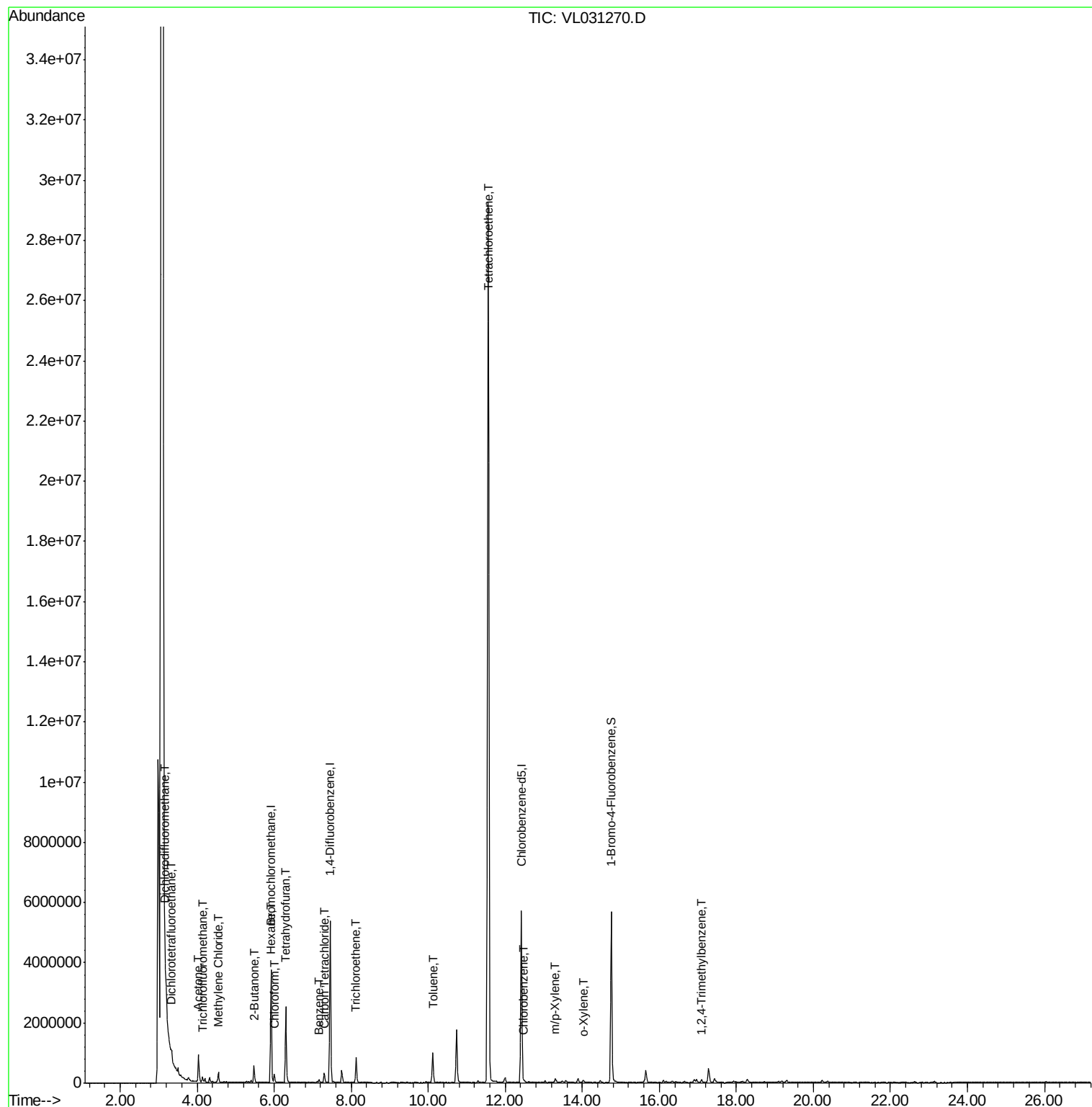
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
Data File : VL031270.D
Acq On : 20 Dec 2017 14:46
Operator : SY/AP
Sample : I6960-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

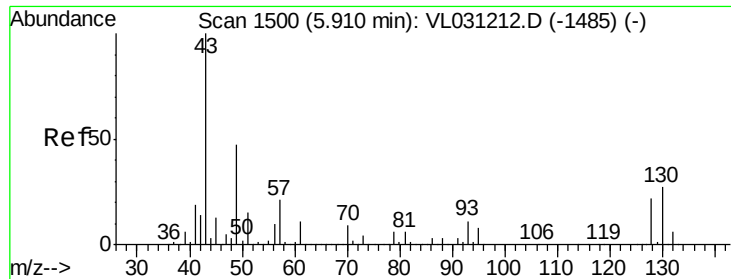
Instrument :
MSVOA_L
ClientSampleId :
T5P1

Manual Integrations
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Quant Time: Dec 22 04:17:14 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# 1501

Delta R.T. 0.00 min

Lab File: VL031270.D

Acq: 20 Dec 2017 14:46

Instrument :

MSVOA_L

ClientSampleId :

T5P1

Tot Ion: 49 Resp: 1675681

Ion Ratio Lower Upper

49 100

128 47.4 23.2 69.5

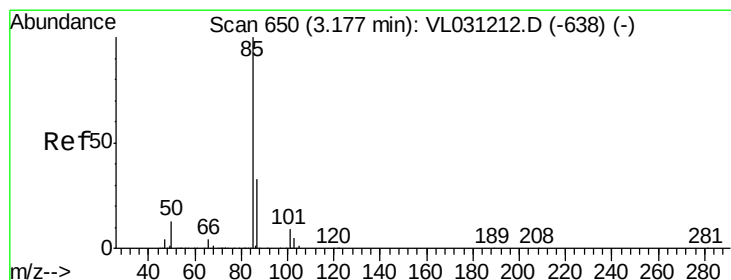
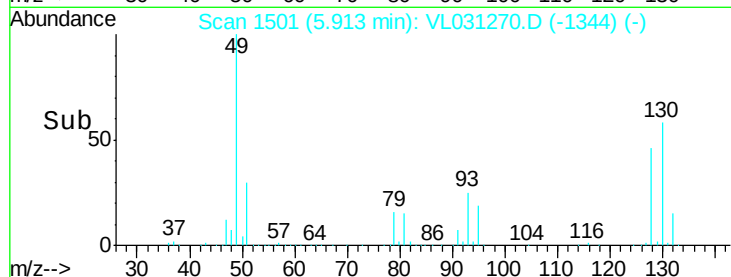
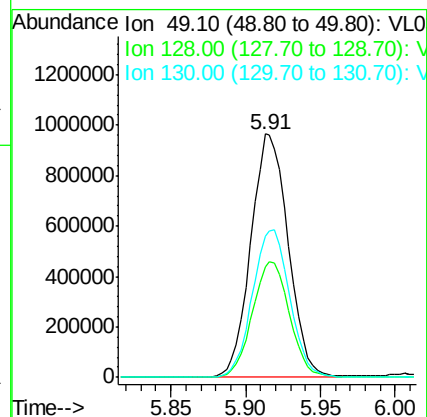
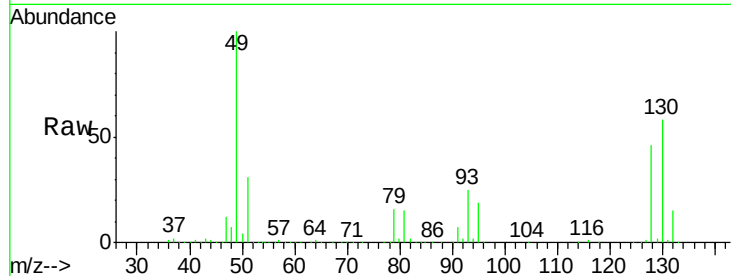
130 61.0 29.6 88.8

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.31 ppbv m

RT: 3.17 min Scan# 649

Delta R.T. -0.00 min

Lab File: VL031270.D

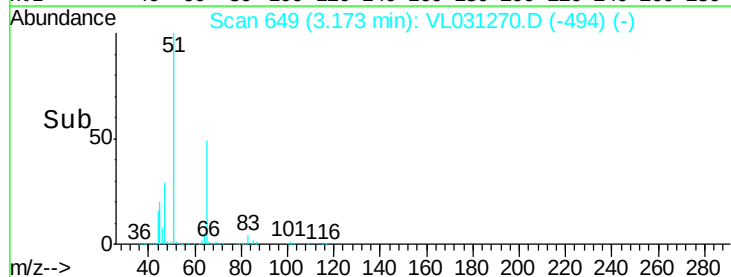
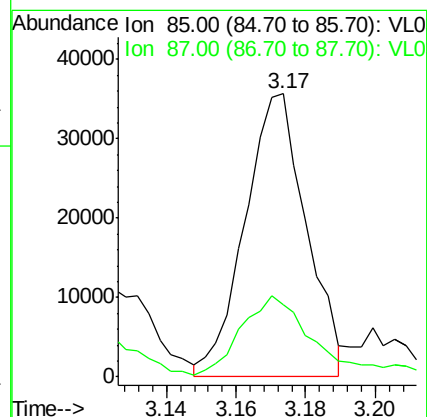
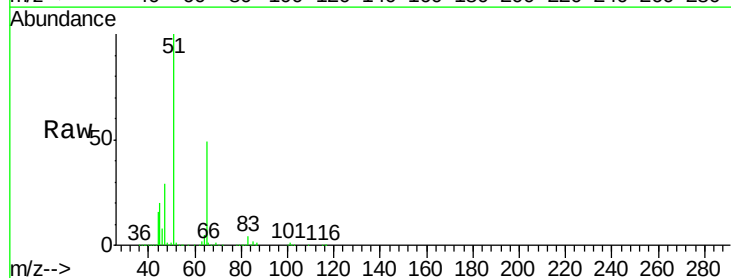
Acq: 20 Dec 2017 14:46

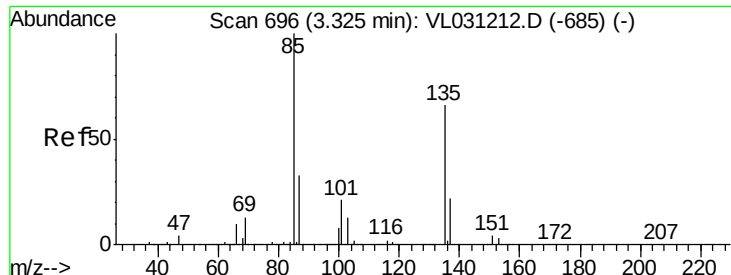
Tgt Ion: 85 Resp: 43791

Ion Ratio Lower Upper

85 100

87 25.7 26.2 39.2#





#8

Dichlorotetrafluoroethane

Concen: 0.39 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031270.D

Acq: 20 Dec 2017 14:46

Instrument :

MSVOA_L

ClientSampled :

T5P1

Tot Ion: 85 Resp: 76088

Ion Ratio Lower Upper

85 100

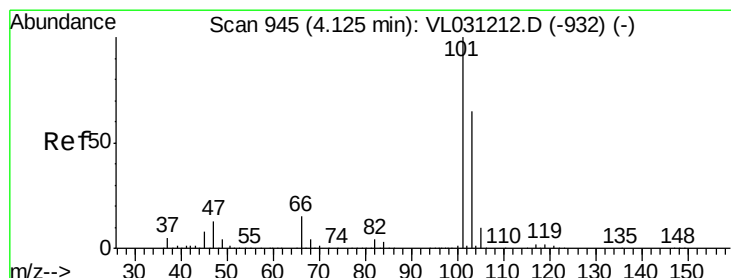
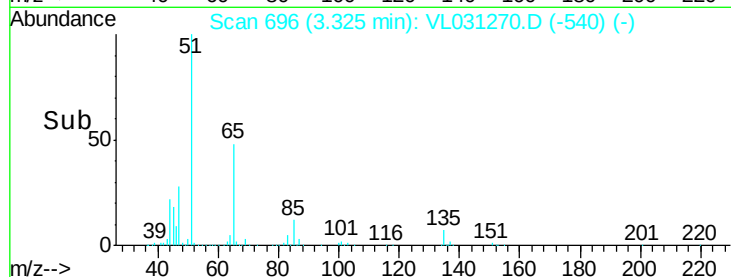
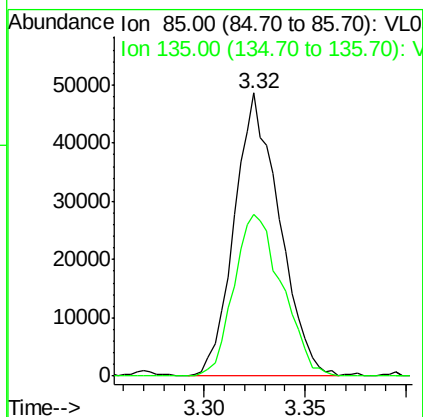
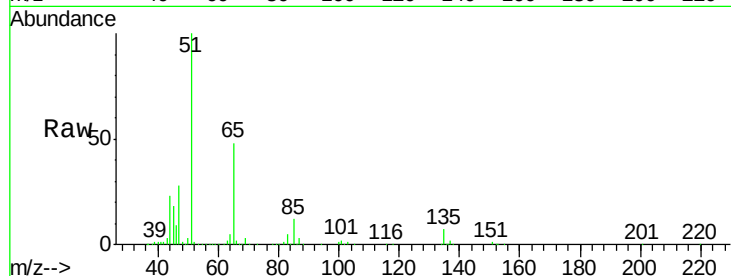
135 61.0 54.0 81.0

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#11

Trichlorofluoromethane

Concen: 0.49 ppbv

RT: 4.14 min Scan# 950

Delta R.T. 0.02 min

Lab File: VL031270.D

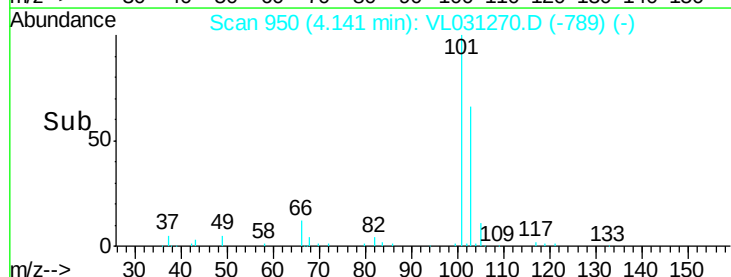
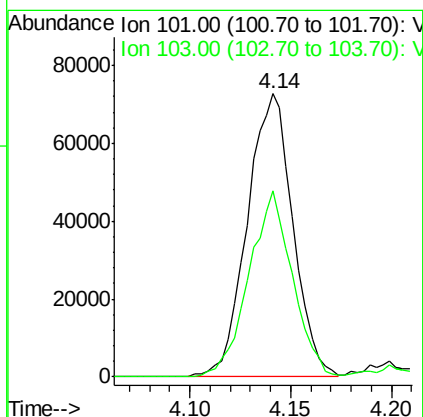
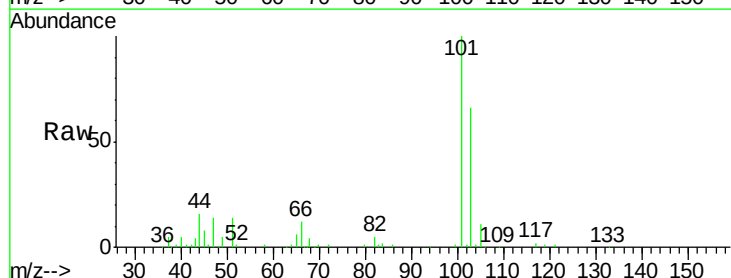
Acq: 20 Dec 2017 14:46

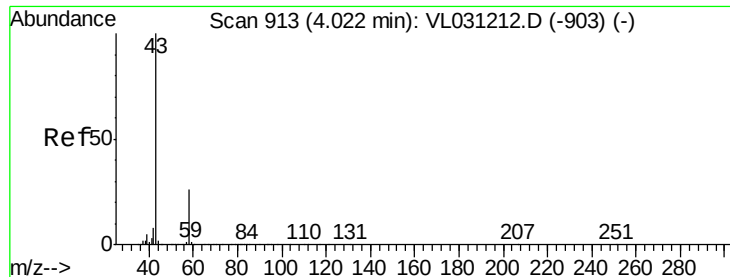
Tgt Ion: 101 Resp: 114946

Ion Ratio Lower Upper

101 100

103 65.7 51.8 77.8





#15

Acetone

Concen: 3.98 ppbv

RT: 4.03 min Scan# 915

Delta R.T. 0.01 min

Lab File: VL031270.D

Acq: 20 Dec 2017 14:46

Instrument :

MSVOA_L

ClientSampleId :

T5P1

Tot Ion: 43 Resp: 879769

Ion Ratio Lower Upper

43 100

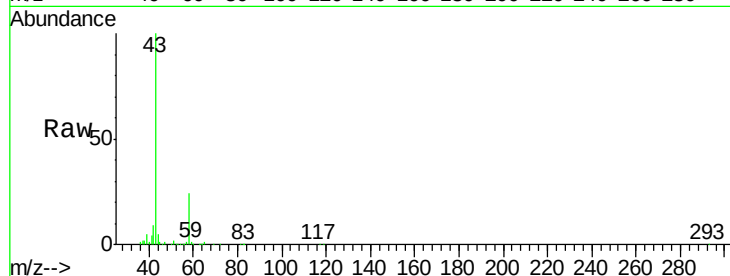
58 28.7 20.3 30.5

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.03

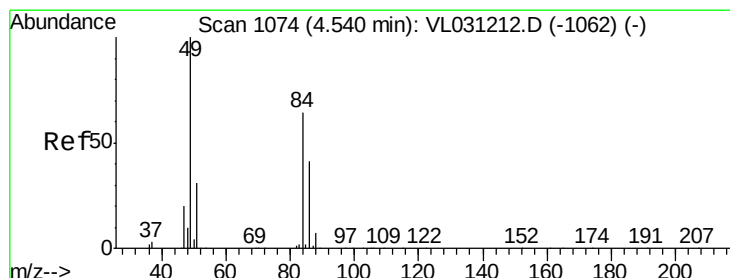
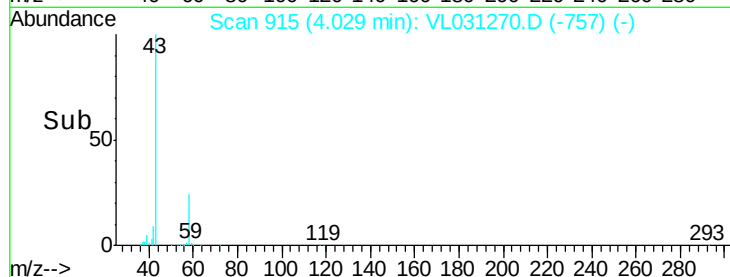
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 1.53 ppbv

RT: 4.55 min Scan# 1077

Delta R.T. 0.01 min

Lab File: VL031270.D

Acq: 20 Dec 2017 14:46

Tgt Ion: 84 Resp: 111909

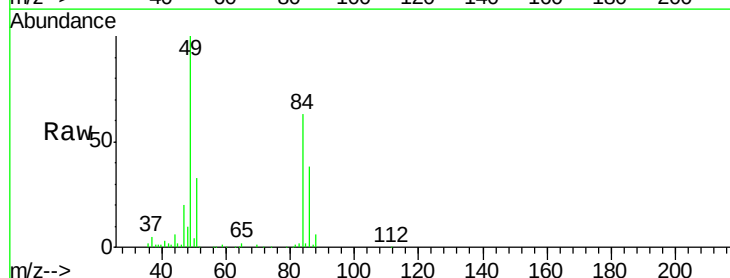
Ion Ratio Lower Upper

84 100

49 156.9 125.8 188.6

51 46.6 39.3 58.9

86 59.6 51.1 76.7



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

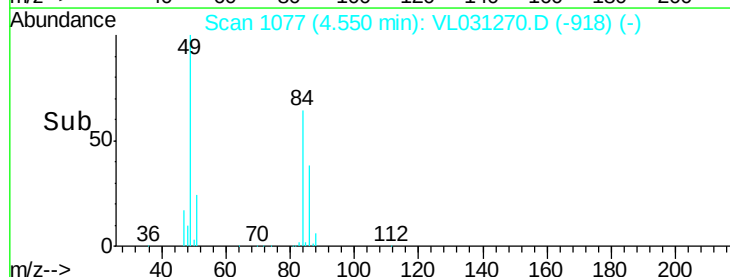
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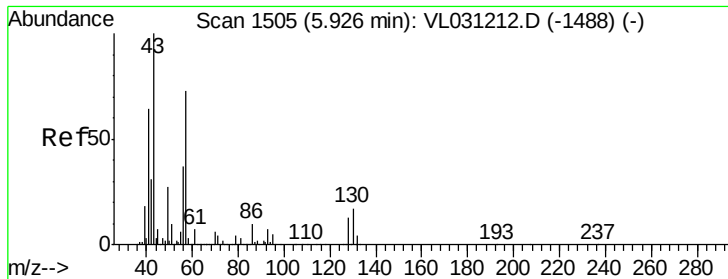
100000

50000

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Time-->





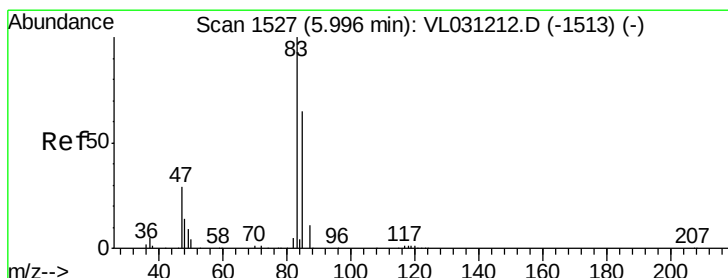
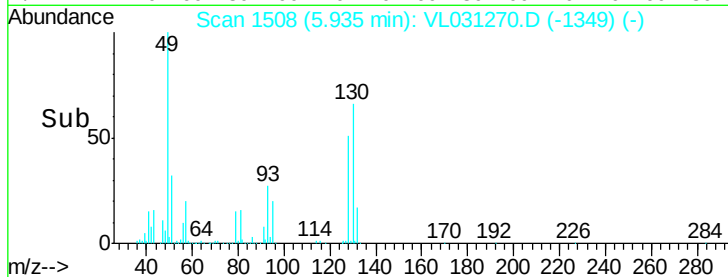
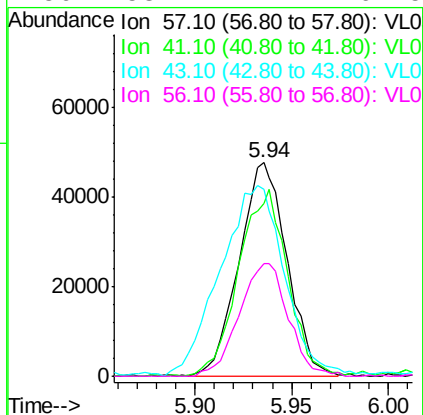
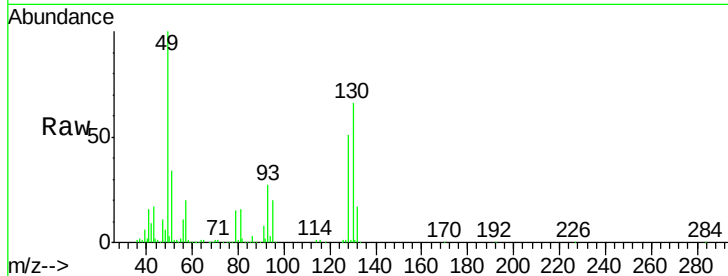
#26
Hexane
Concen: 0.38 ppbv
RT: 5.94 min Scan# 1508
Delta R.T. 0.01 min
Lab File: VL031270.D
Acq: 20 Dec 2017 14:46

Instrument :
MSVOA_L
ClientSampleId :
T5P1

Tot Ion	Ratio	Lower	Upper
57	100		
41	91.8	70.3	105.5
43	118.5	173.8	260.8#
56	53.7	41.7	62.5

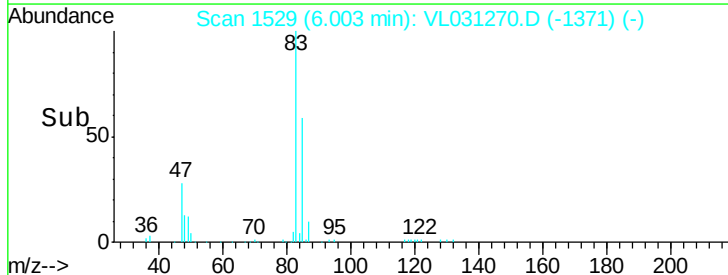
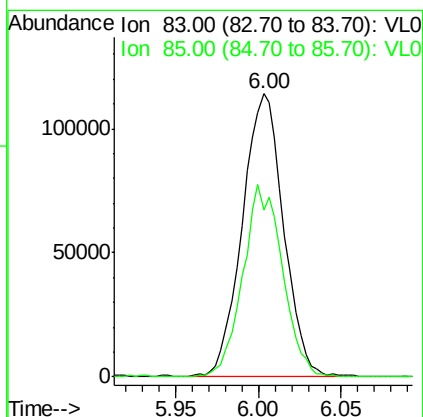
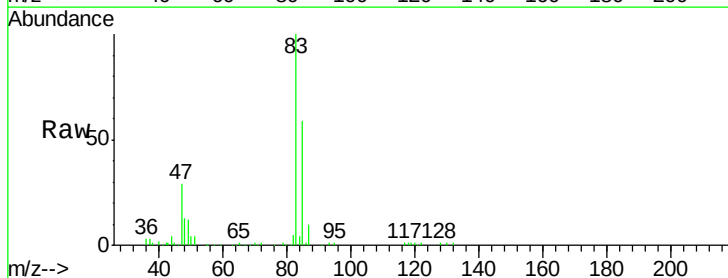
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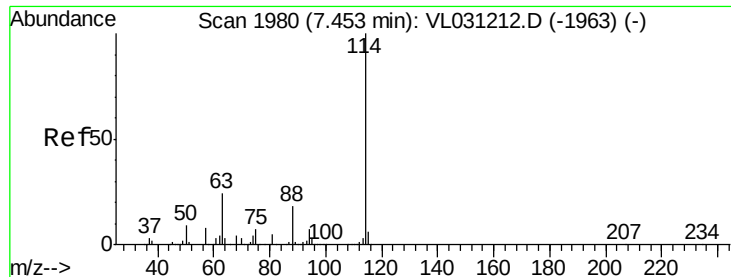
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#29
Chloroform
Concen: 0.68 ppbv
RT: 6.00 min Scan# 1529
Delta R.T. 0.01 min
Lab File: VL031270.D
Acq: 20 Dec 2017 14:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.9	51.8	77.6





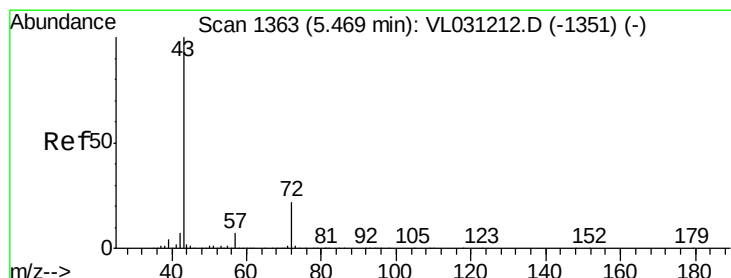
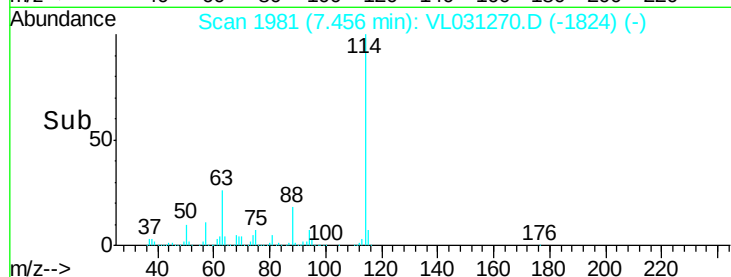
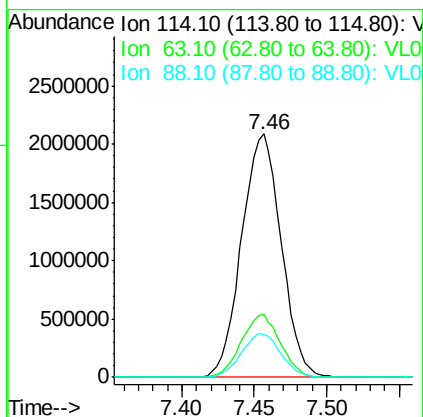
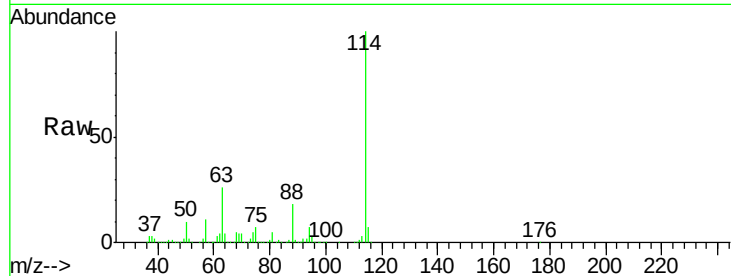
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VL031270.D
 Acq: 20 Dec 2017 14:46

Instrument :
 MSVOA_L
 ClientSampleId :
 T5P1

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.6	19.8	29.8
88	18.0	14.2	21.4

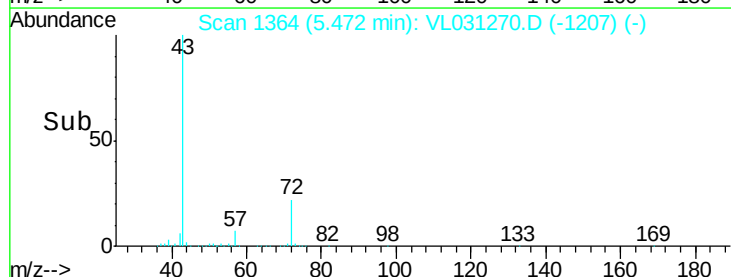
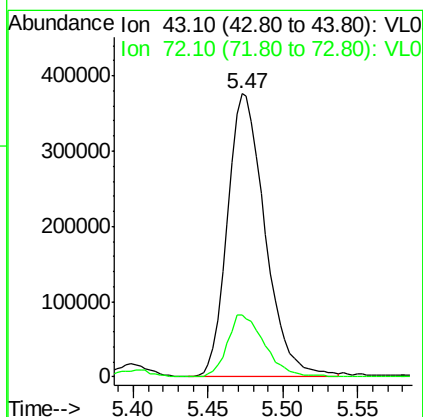
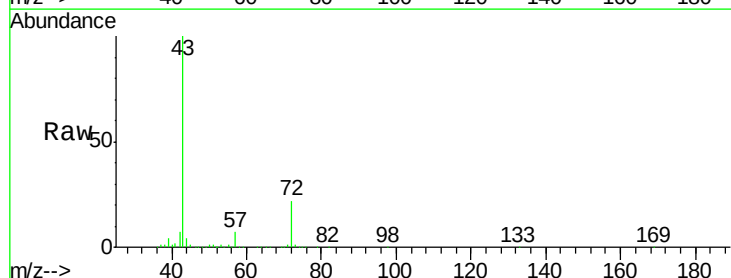
Manual Integrations
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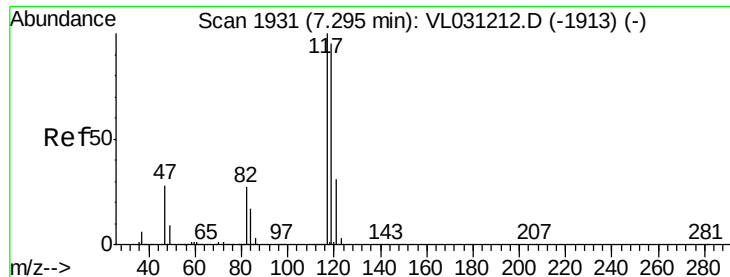
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#34
 2-Butanone
 Concen: 2.33 ppbv
 RT: 5.47 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL031270.D
 Acq: 20 Dec 2017 14:46

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.1	27.1





#35

Carbon Tetrachloride

Concen: 0.66 ppbv m

RT: 7.31 min Scan# 1934

Delta R.T. 0.01 min

Lab File: VL031270.D

Acq: 20 Dec 2017 14:46

Instrument :

MSVOA_L

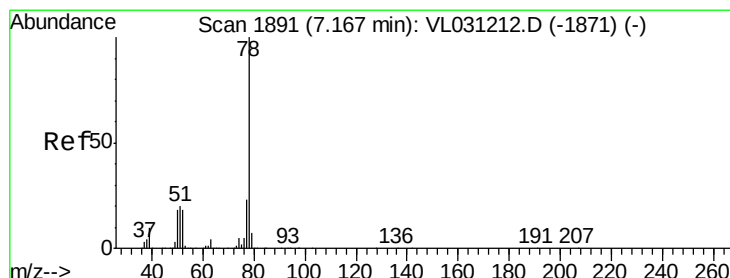
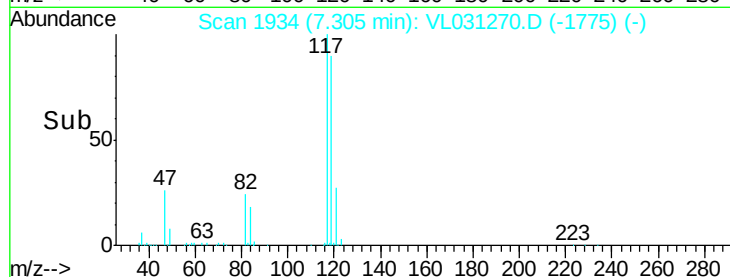
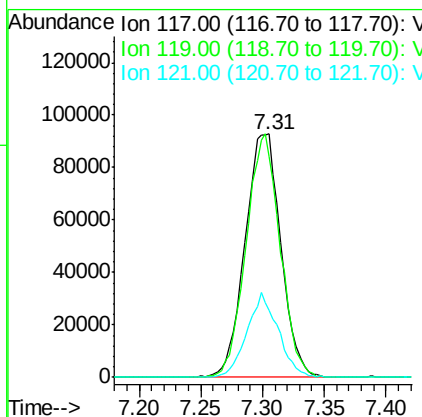
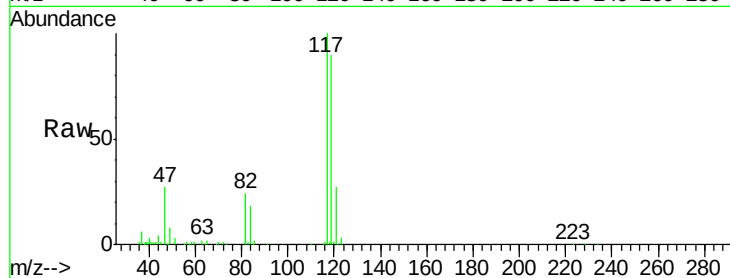
ClientSampled :

T5P1

Tot Ion:	117	Resp:	187715
Ion	Ratio	Lower	Upper
117	100		
119	90.5	75.9	113.9
121	27.3	24.6	37.0

Manual Integrations
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#36

Benzene

Concen: 0.15 ppbv

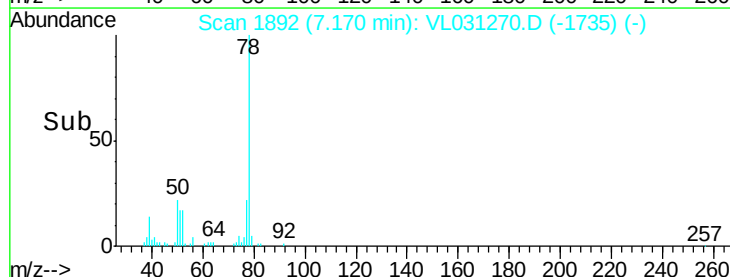
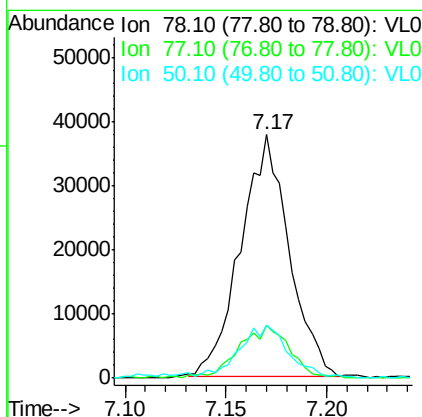
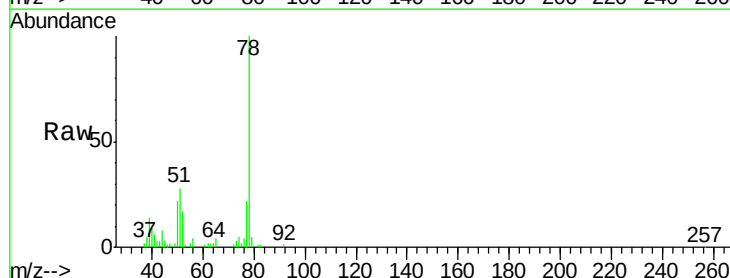
RT: 7.17 min Scan# 1892

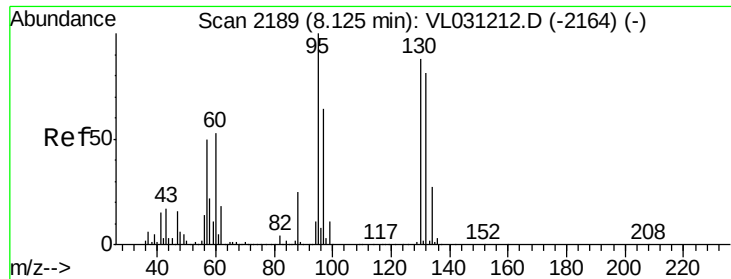
Delta R.T. 0.00 min

Lab File: VL031270.D

Acq: 20 Dec 2017 14:46

Tgt Ion:	78	Resp:	63597
Ion	Ratio	Lower	Upper
78	100		
77	20.5	18.1	27.1
50	20.6	14.6	21.8





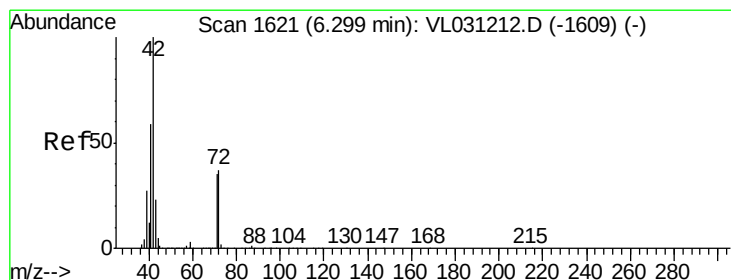
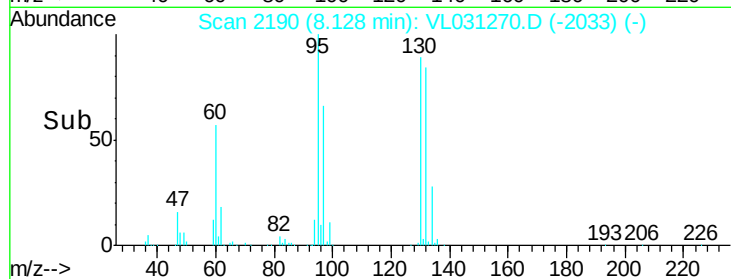
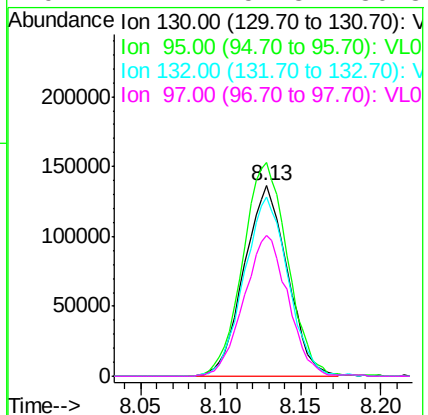
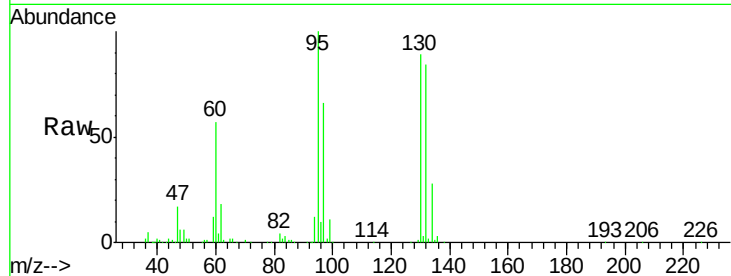
#38
 Trichloroethene
 Concen: 1.55 ppbv
 RT: 8.13 min Scan# 2190
 Delta R.T. 0.00 min
 Lab File: VL031270.D
 Acq: 20 Dec 2017 14:46

Instrument :
 MSVOA_L
 ClientSampleId :
 T5P1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
130	100		253743		
95	112.0	90.6	135.8		
132	94.2	73.5	110.3		
97	74.1	57.8	86.8		

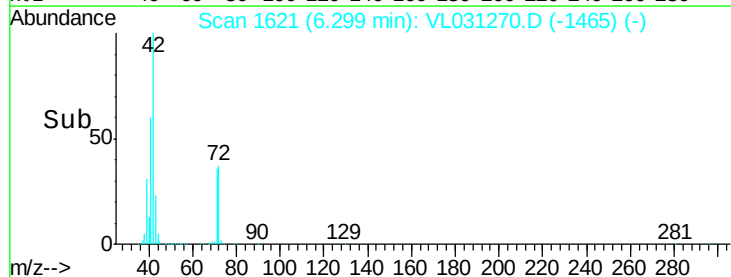
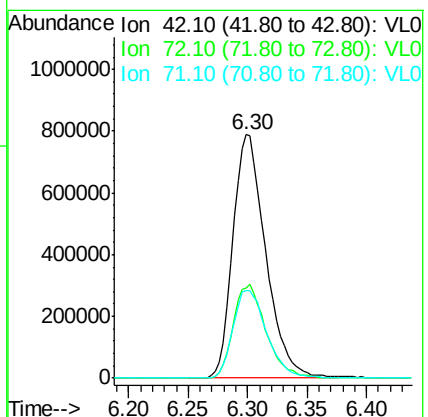
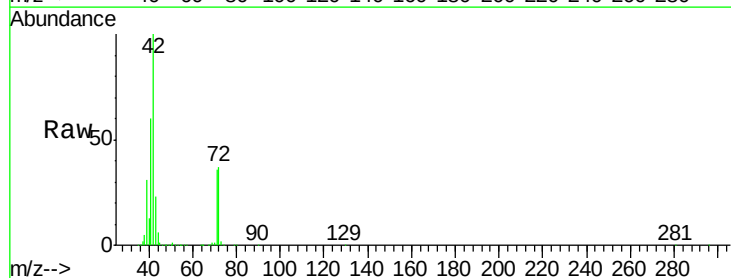
Manual Integrations
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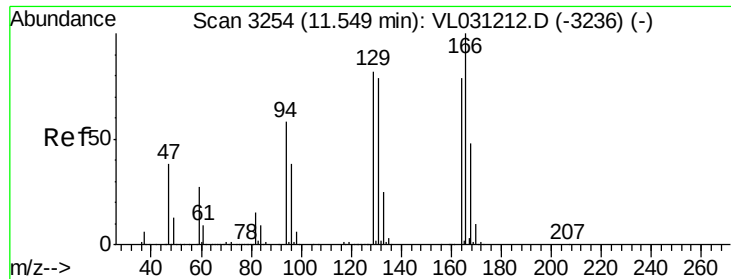
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#41
 Tetrahydrofuran
 Concen: 9.58 ppbv
 RT: 6.30 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VL031270.D
 Acq: 20 Dec 2017 14:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
42	100		1509814		
72	38.4	30.2	45.4		
71	37.3	29.0	43.6		





#52

Tetrachloroethene

Concen: 58.32 ppbv

RT: 11.56 min Scan# 3258

Delta R.T. 0.01 min

Lab File: VL031270.D

Acq: 20 Dec 2017 14:46

Instrument :

MSVOA_L

ClientSampled :

T5P1

Tot Ion:164 Resp: 9045407

Ion Ratio Lower Upper

164 100

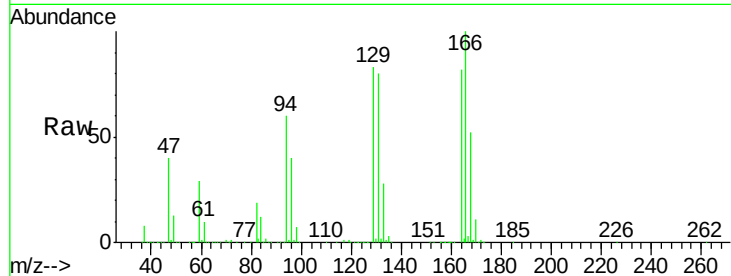
166 122.5 100.6 151.0

129 101.1 82.9 124.3

131 98.2 79.2 118.8

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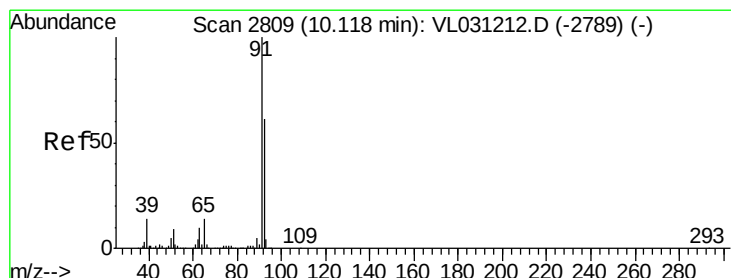
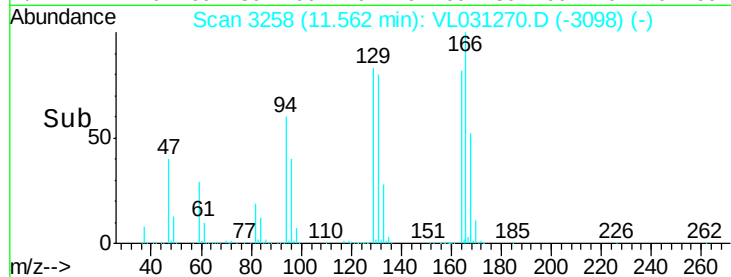
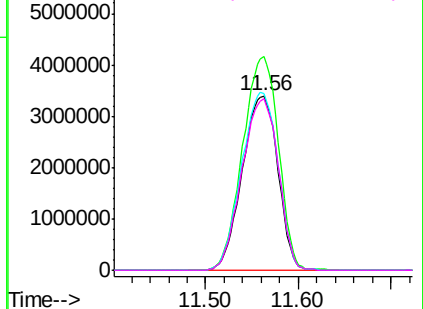


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.34 ppbv

RT: 10.12 min Scan# 2809

Delta R.T. 0.00 min

Lab File: VL031270.D

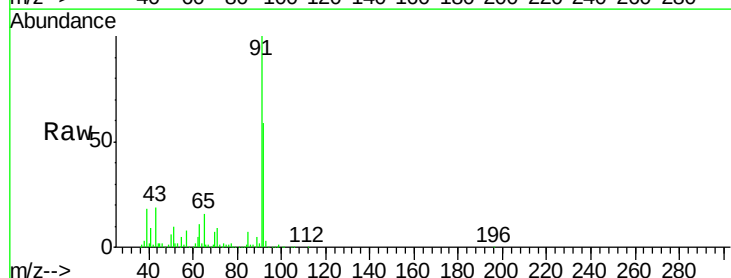
Acq: 20 Dec 2017 14:46

Tgt Ion: 91 Resp: 611593

Ion Ratio Lower Upper

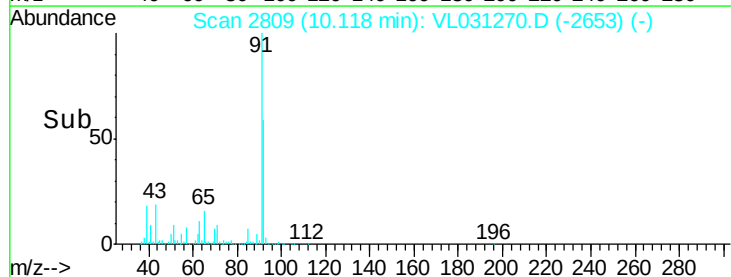
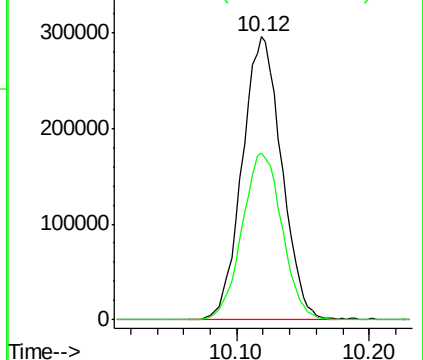
91 100

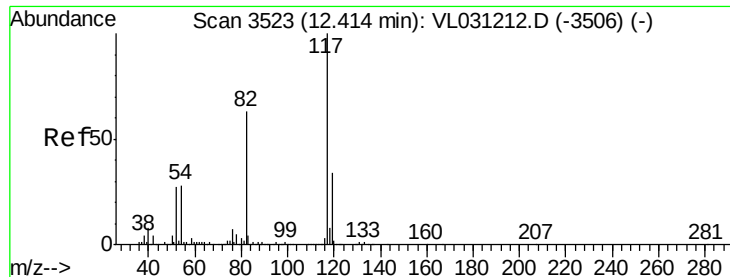
92 59.7 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





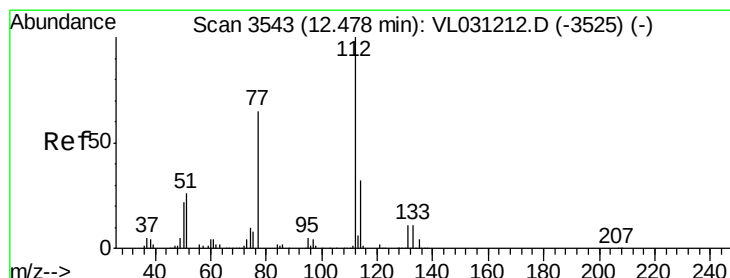
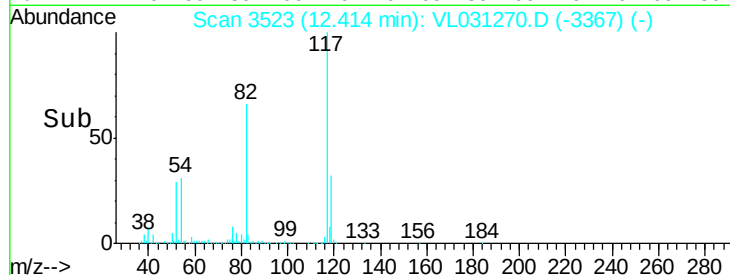
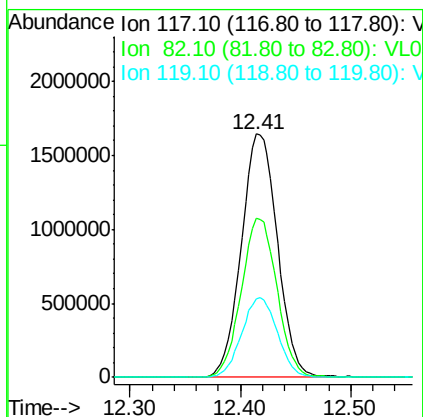
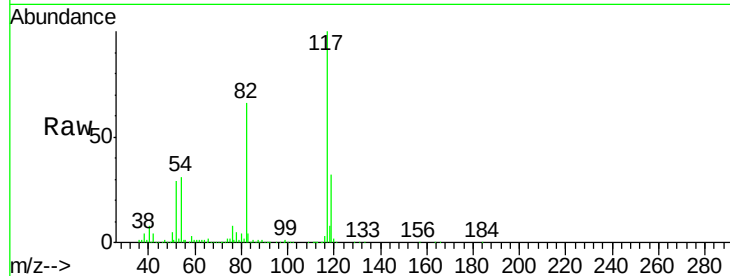
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3523
Delta R.T. 0.00 min
Lab File: VL031270.D
Acq: 20 Dec 2017 14:46

Instrument :
MSVOA_L
ClientSampled :
T5P1

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.9	48.1	72.1
119	32.5	23.1	34.7

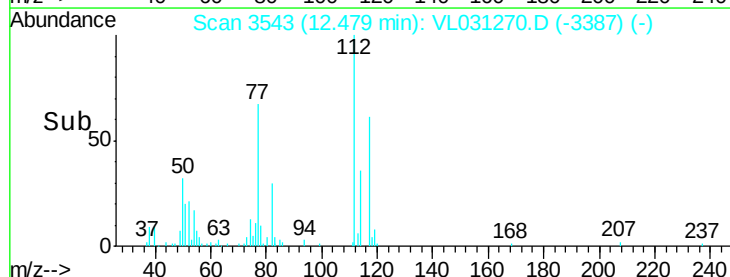
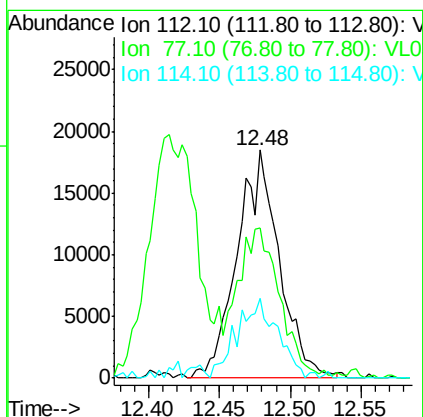
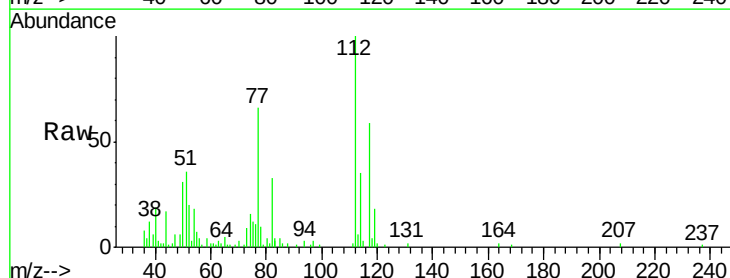
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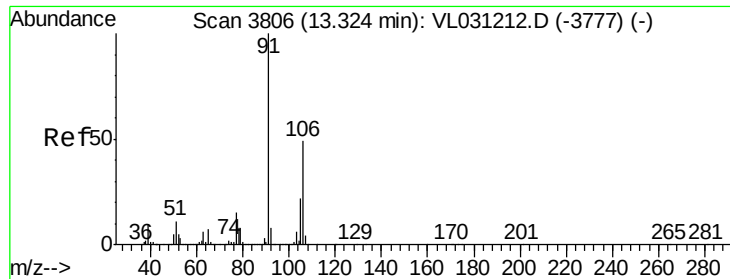
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#57
Chlorobenzene
Concen: 0.11 ppbv m
RT: 12.48 min Scan# 3543
Delta R.T. 0.00 min
Lab File: VL031270.D
Acq: 20 Dec 2017 14:46

Tgt Ion	Ratio	Lower	Upper
112	100		
77	65.8	52.9	79.3
114	34.9	29.1	35.5





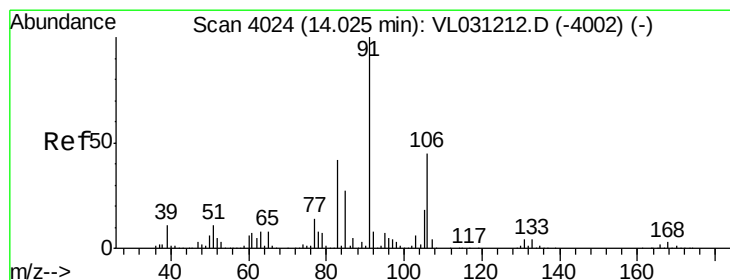
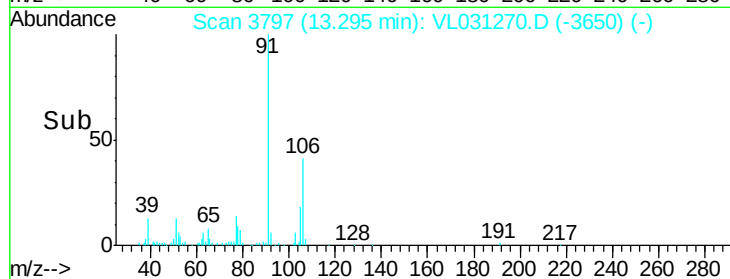
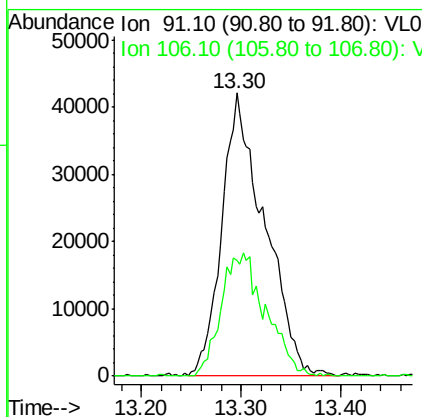
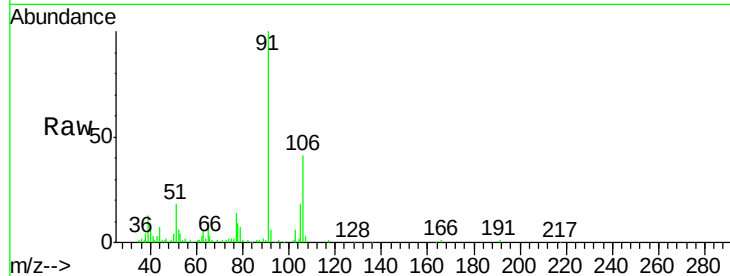
#59
m/p-Xylene
Concen: 0.25 ppbv m
RT: 13.30 min Scan# 3797
Delta R.T. -0.03 min
Lab File: VL031270.D
Acq: 20 Dec 2017 14:46

Instrument :
MSVOA_L
ClientSampled :
T5P1

Tot Ion: 91 Resp: 124913
Ion Ratio Lower Upper
91 100
106 0.0 38.5 57.7#

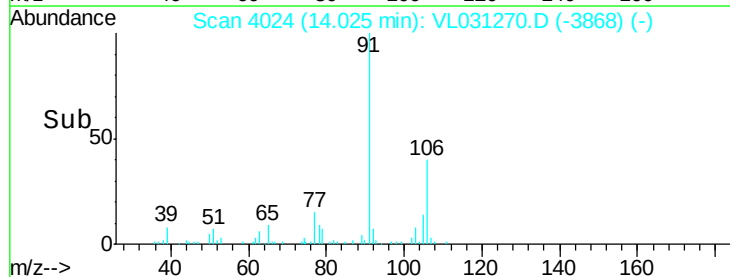
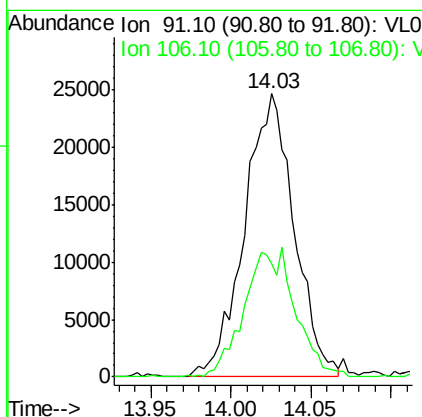
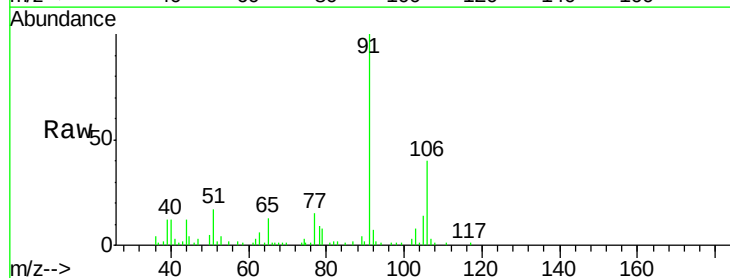
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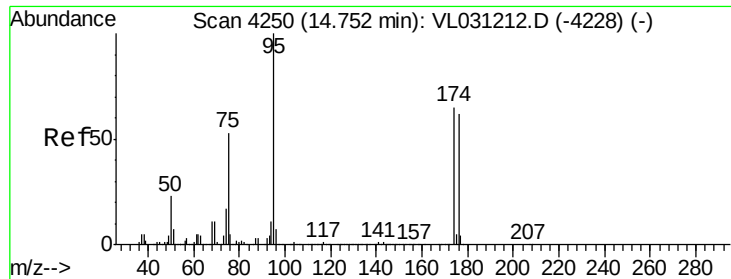
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#60
o-Xylene
Concen: 0.11 ppbv
RT: 14.03 min Scan# 4024
Delta R.T. 0.00 min
Lab File: VL031270.D
Acq: 20 Dec 2017 14:46

Tgt Ion: 91 Resp: 52593
Ion Ratio Lower Upper
91 100
106 46.3 22.7 68.1





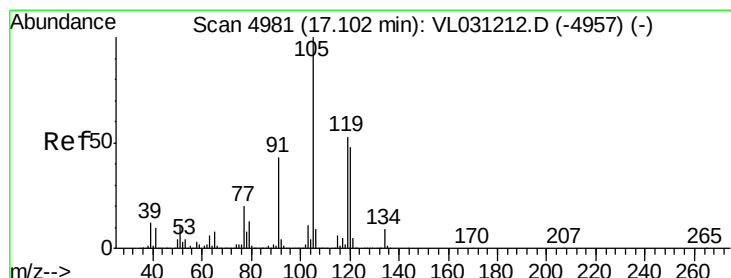
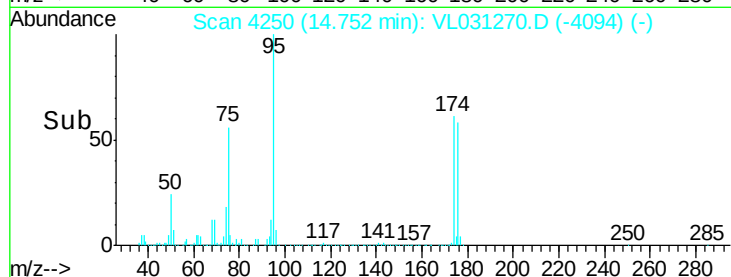
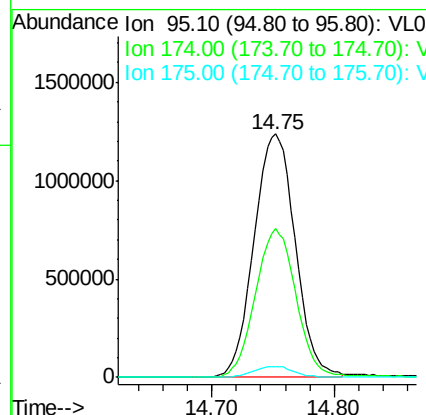
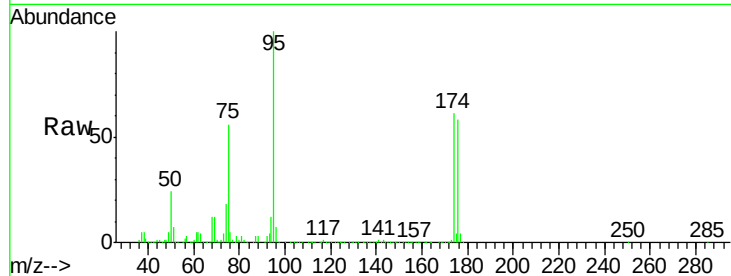
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.89 ppbv
 RT: 14.75 min Scan# 4250
 Delta R.T. 0.00 min
 Lab File: VL031270.D
 Acq: 20 Dec 2017 14:46

Instrument :
 MSVOA_L
 ClientSampled :
 T5P1

Tot Ion: 95 Resp: 2890656
 Ion Ratio Lower Upper
 95 100
 174 61.1 52.5 78.7
 175 4.6 4.1 6.1

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.14 ppbv m
 RT: 17.10 min Scan# 4979
 Delta R.T. -0.01 min
 Lab File: VL031270.D
 Acq: 20 Dec 2017 14:46

Tgt Ion: 105 Resp: 73928
 Ion Ratio Lower Upper
 105 100
 120 42.4 38.6 58.0
 91 13.3 34.2 51.4#
 77 15.7 16.1 24.1#

