

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031229.D
 Acq On : 14 Dec 2017 13:13
 Operator : SY/AP
 Sample : I6808-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-UNIT-4

Manual Integrations
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 12/15/2017 4:07:09 PM

Quant Time: Dec 15 06:31:22 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	1389785	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3279314	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2555292	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2301792	12.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	126.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	39473	0.34	ppbv	99
3) Chlorodifluoromethane	3.12	51	160634m	1.02	ppbv	
4) Chloromethane	3.28	50	44935	0.53	ppbv	94
9) Propene	3.15	41	55567m	0.72	ppbv	
10) Heptane	8.40	43	24098m	0.10	ppbv	
11) Trichlorofluoromethane	4.13	101	56340	0.29	ppbv	91
13) Ethanol	3.77	45	321524	14.37	ppbv	100
15) Acetone	4.03	43	920487	5.02	ppbv	100
19) Isopropyl Alcohol	4.16	45	168498	1.45	ppbv #	1
20) Methylene Chloride	4.54	84	89430	1.47	ppbv	94
26) Hexane	5.93	57	418271	2.35	ppbv #	44
34) 2-Butanone	5.48	43	55783	0.24	ppbv	97
35) Carbon Tetrachloride	7.29	117	18467m	0.08	ppbv	
36) Benzene	7.16	78	96928	0.28	ppbv #	93
44) 2,2,4-Trimethylpentane	8.16	57	44747m	0.09	ppbv	
53) Toluene	10.12	91	168677m	0.45	ppbv	
58) Ethyl Benzene	13.03	91	39682	0.09	ppbv	93
59) m/p-Xylene	13.29	91	88292m	0.26	ppbv	
60) o-Xylene	14.02	91	36032	0.11	ppbv	94
61) Styrene	13.85	104	10211m	0.10	ppbv	
74) 1,2,4-Trimethylbenzene	17.10	105	66579	0.19	ppbv #	73

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

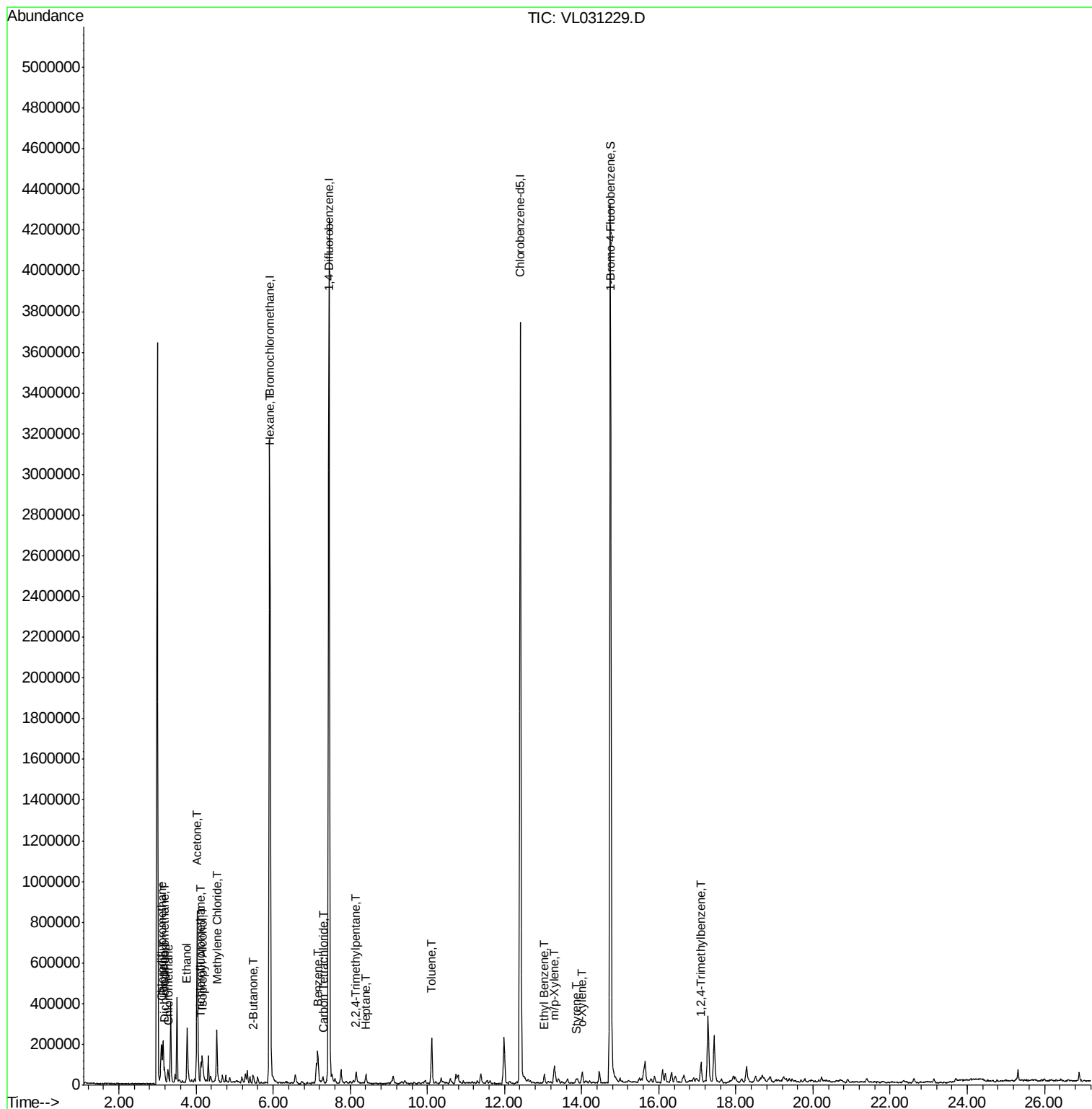
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
Data File : VL031229.D
Acq On : 14 Dec 2017 13:13
Operator : SY/AP
Sample : I6808-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

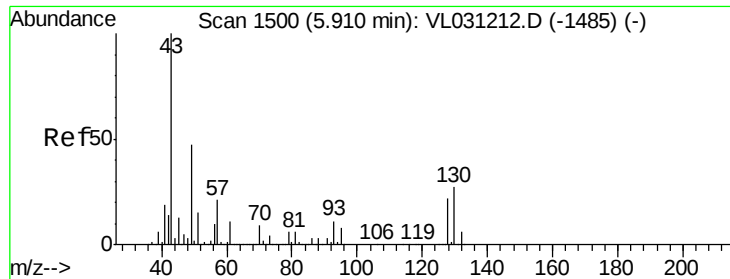
Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-4

Manual Integrations

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Quant Time: Dec 15 06:31:22 2017
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu 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: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

ClientSampleId :

AIR-UNIT-4

Tot Ion: 49 Resp: 1389785

Ion Ratio Lower Upper

49 100

128 49.0 23.2 69.5

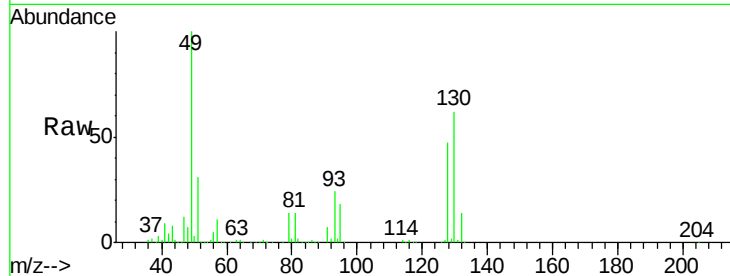
130 62.8 29.6 88.8

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

800000

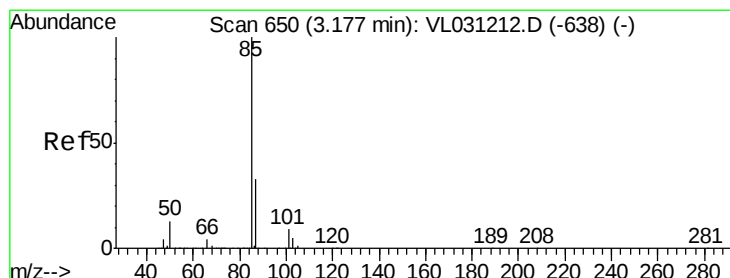
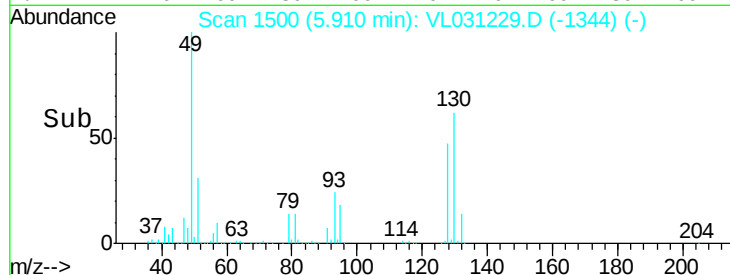
600000

400000

200000

0

Time--> 5.80 5.85 5.90 5.95 6.00



#2

Dichlorodifluoromethane

Concen: 0.34 ppbv

RT: 3.18 min Scan# 652

Delta R.T. 0.01 min

Lab File: VL031229.D

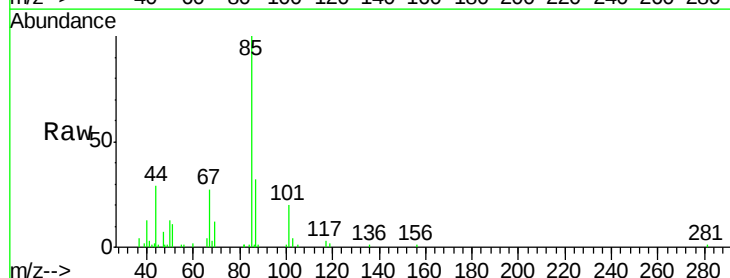
Acq: 14 Dec 2017 13:13

Tgt Ion: 85 Resp: 39473

Ion Ratio Lower Upper

85 100

87 32.3 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

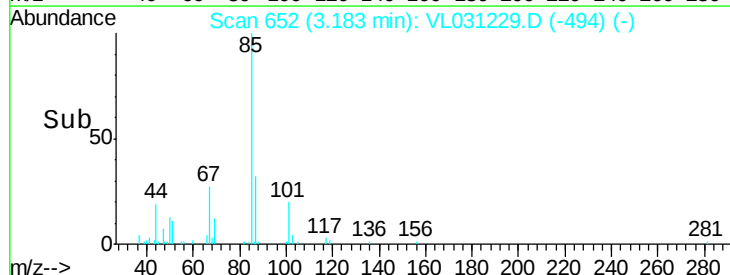
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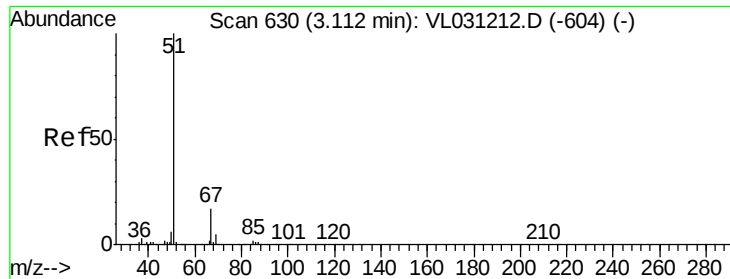
20000

10000

0

Time--> 3.15 3.20





#3

Chlorodifluoromethane

Concen: 1.02 ppbv m

RT: 3.12 min Scan# 632

Delta R.T. 0.01 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Tot Ion: 51 Resp: 160634

Ion Ratio Lower Upper

51 100

67 18.0 13.8 20.6

Instrument :

MSVOA_L

ClientSampleId :

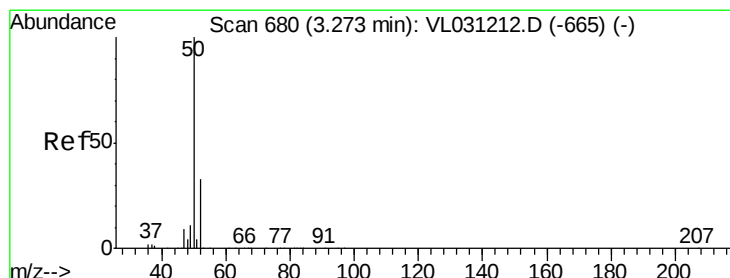
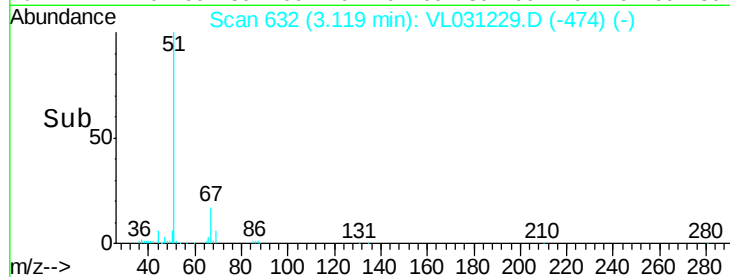
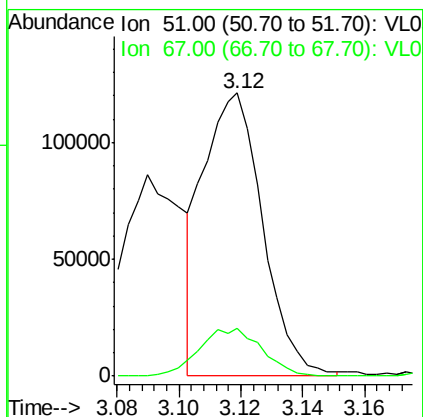
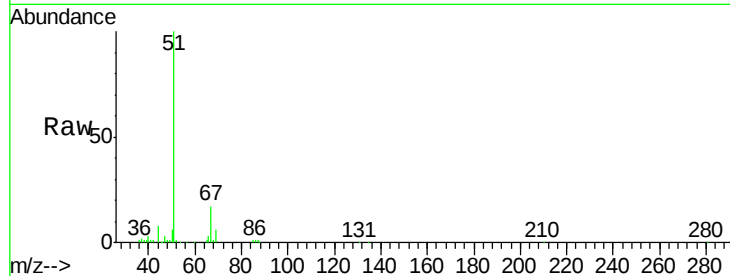
AIR-UNIT-4

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#4

Chloromethane

Concen: 0.53 ppbv

RT: 3.28 min Scan# 682

Delta R.T. 0.01 min

Lab File: VL031229.D

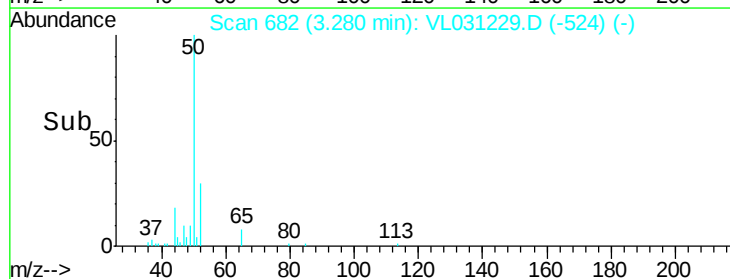
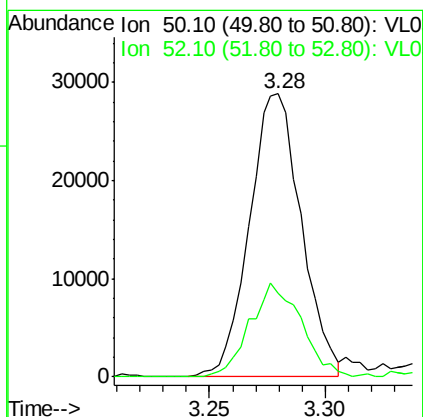
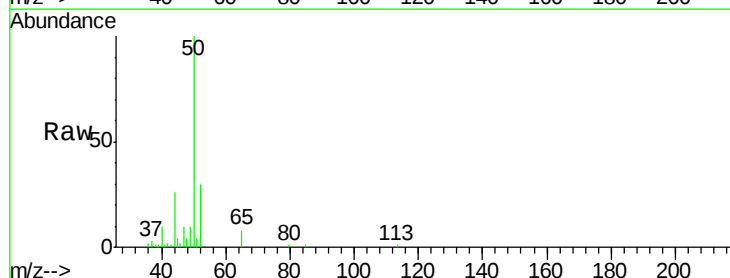
Acq: 14 Dec 2017 13:13

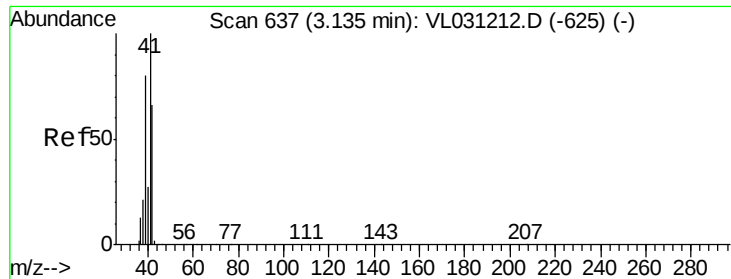
Tgt Ion: 50 Resp: 44935

Ion Ratio Lower Upper

50 100

52 29.8 26.5 39.7





#9

Propene

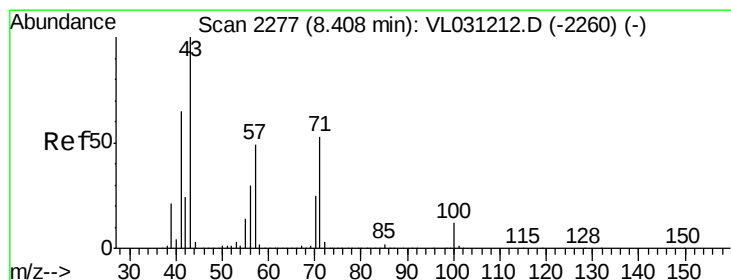
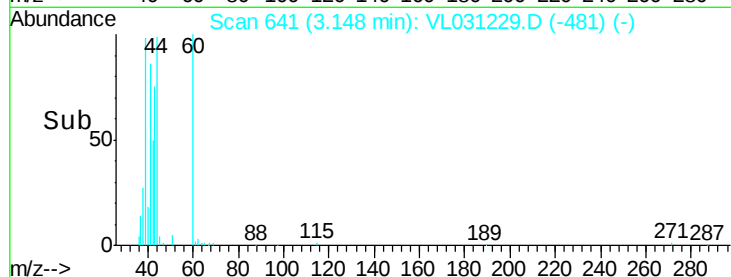
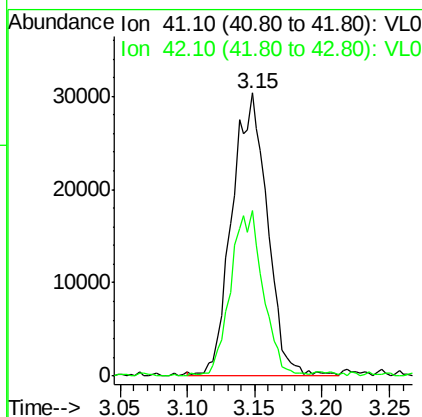
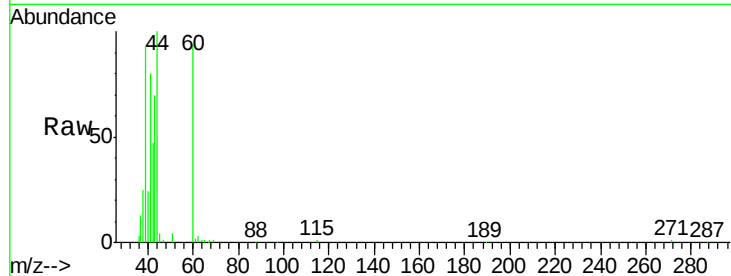
Concen: 0.72 ppbv m
RT: 3.15 min Scan# 641
Delta R.T. 0.01 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-4

Tot Ion	Ratio	Lower	Upper
41	100		
42	127.6	54.3	81.5#

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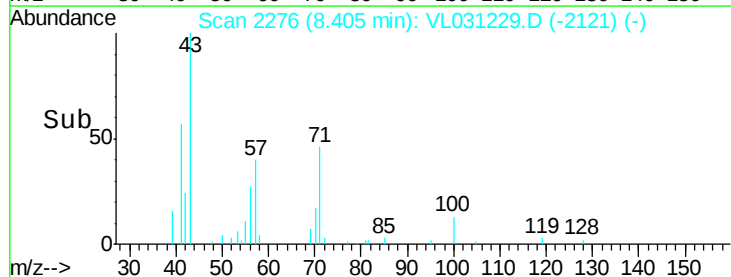
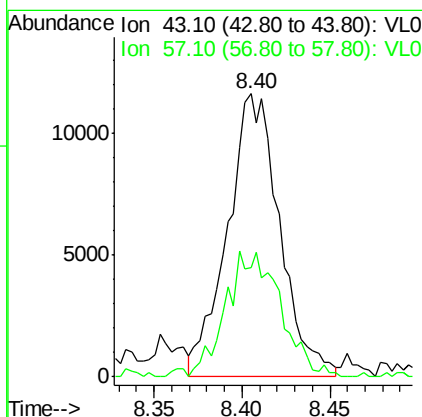
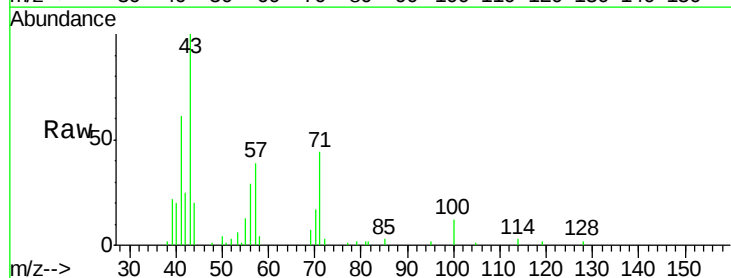


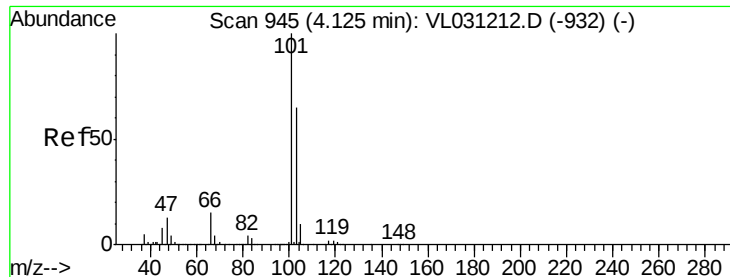
#10

Heptane

Concen: 0.10 ppbv m
RT: 8.40 min Scan# 2276
Delta R.T. -0.00 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Tgt Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.8	59.8#





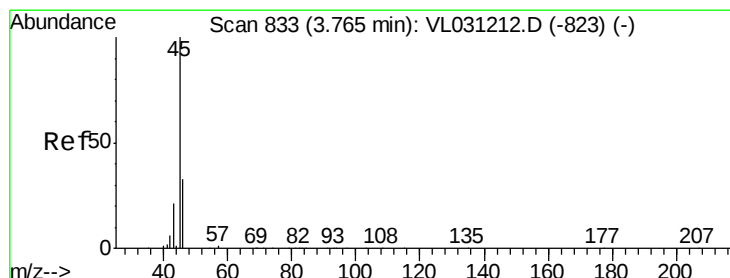
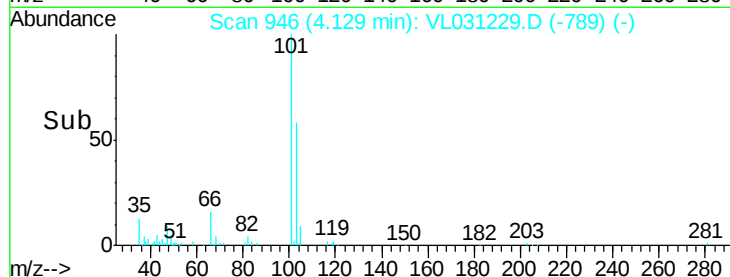
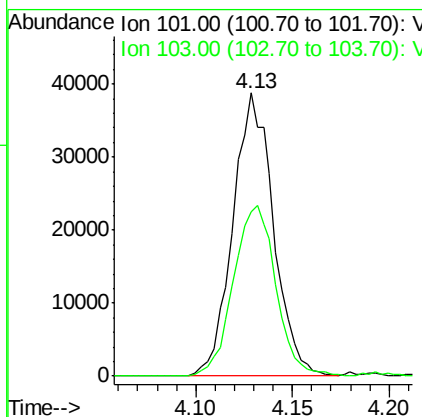
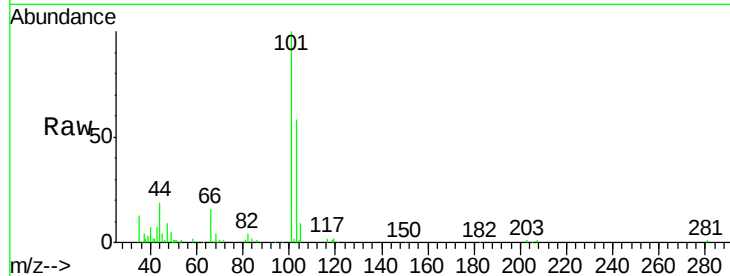
#11
Trichlorofluoromethane
Concen: 0.29 ppbv
RT: 4.13 min Scan# 946
Delta R.T. 0.00 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-4

Tot Ion:101 Resp: 56340
Ion Ratio Lower Upper
101 100
103 57.9 51.8 77.8

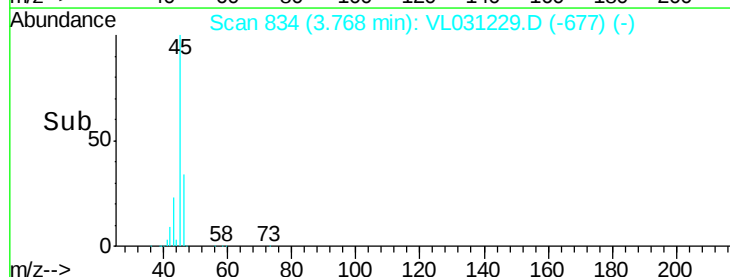
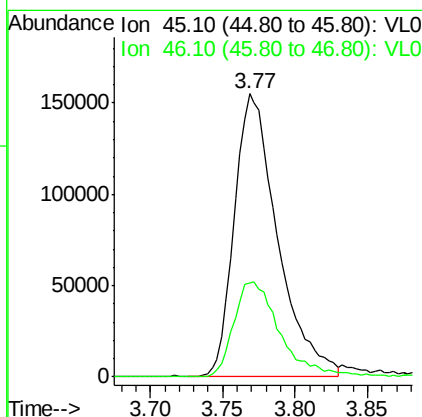
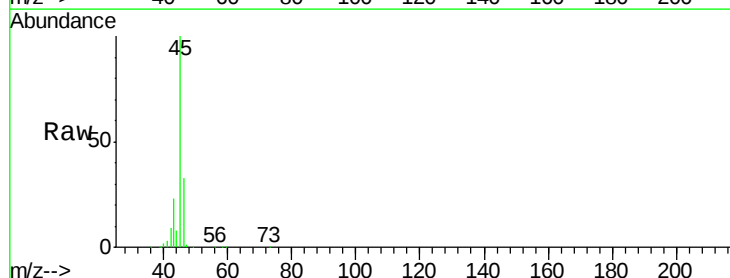
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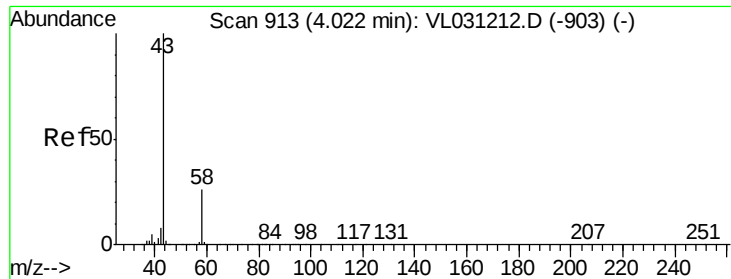
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#13
Ethanol
Concen: 14.37 ppbv
RT: 3.77 min Scan# 834
Delta R.T. 0.00 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Tgt Ion: 45 Resp: 321524
Ion Ratio Lower Upper
45 100
46 36.3 14.6 58.4





#15

Acetone

Concen: 5.02 ppbv

RT: 4.03 min Scan# 914

Delta R.T. 0.00 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

ClientSampleId :

AIR-UNIT-4

Tot Ion: 43 Resp: 920487

Ion Ratio Lower Upper

43 100

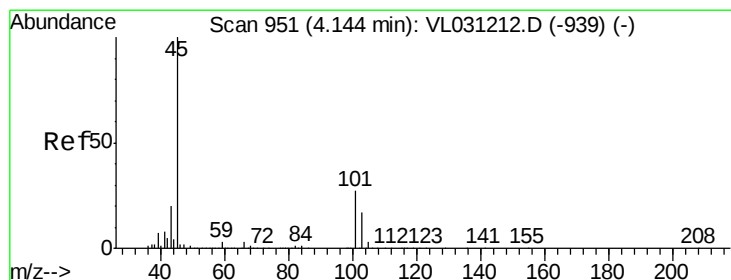
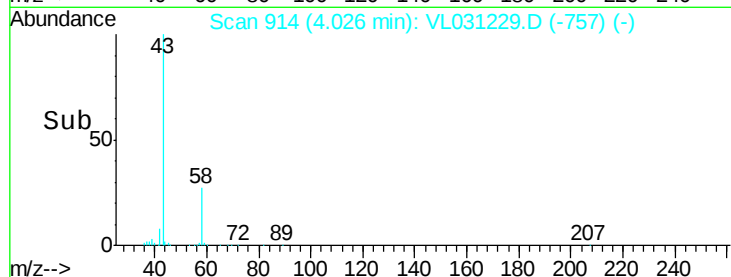
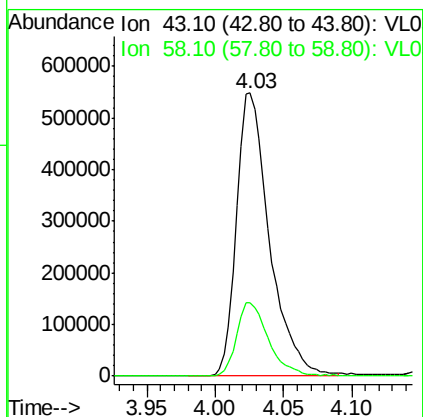
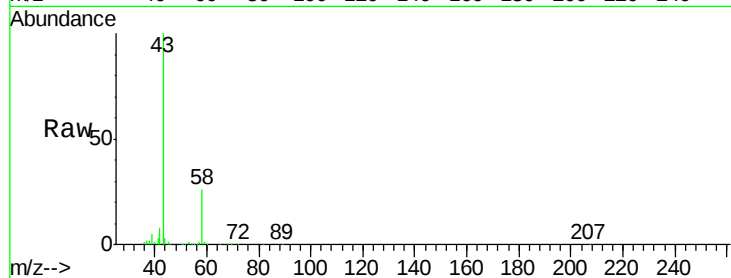
58 25.5 20.3 30.5

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 1.45 ppbv

RT: 4.16 min Scan# 956

Delta R.T. 0.02 min

Lab File: VL031229.D

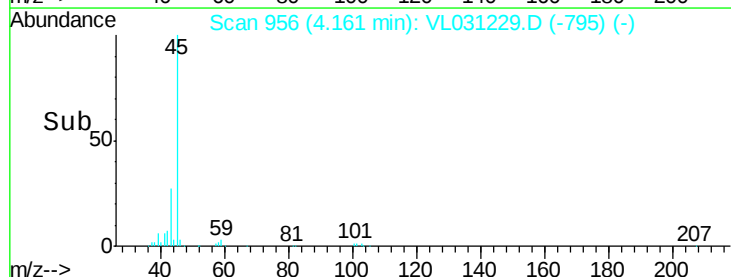
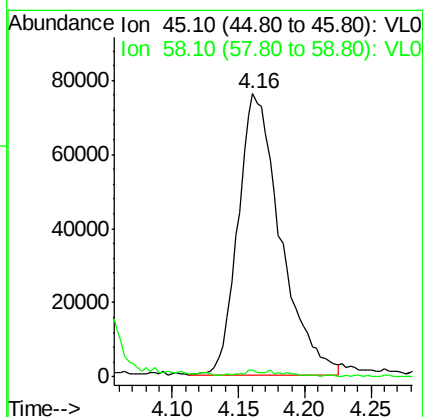
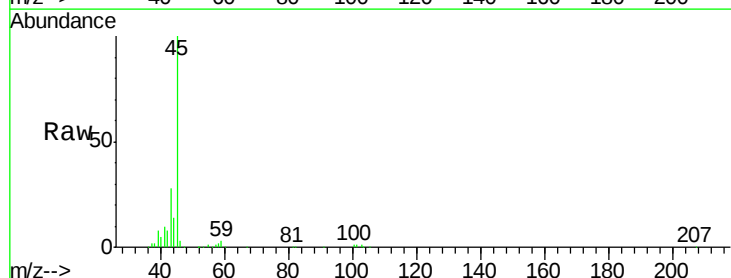
Acq: 14 Dec 2017 13:13

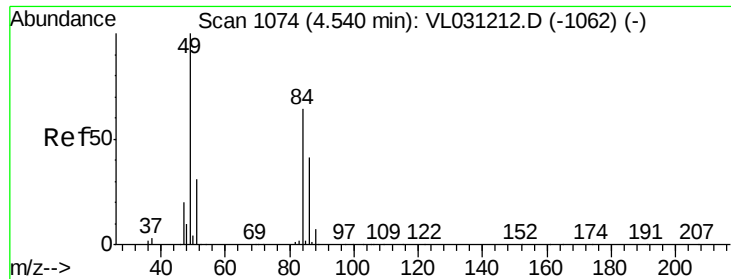
Tgt Ion: 45 Resp: 168498

Ion Ratio Lower Upper

45 100

58 139.5 27.2 40.8#





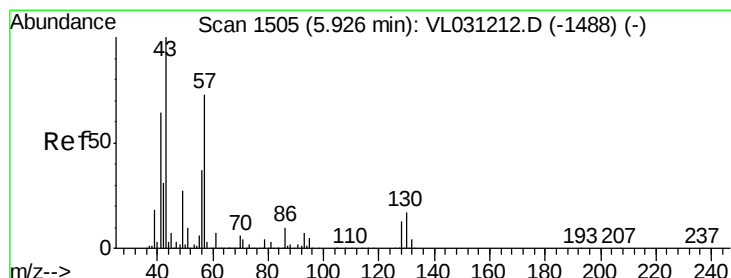
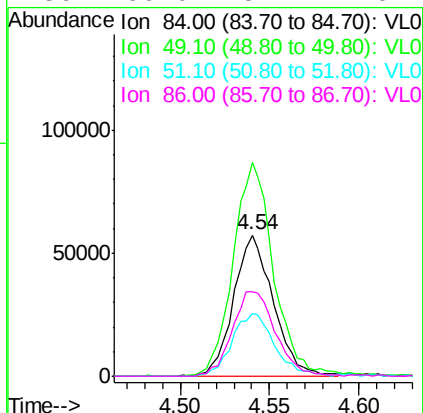
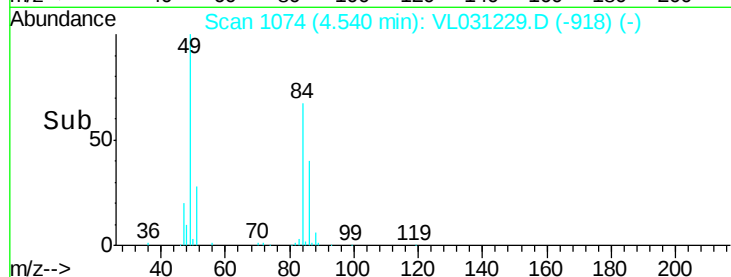
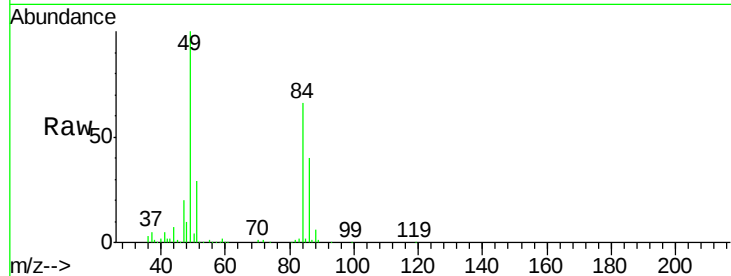
#20
Methvlene Chloride
Concen: 1.47 ppbv
RT: 4.54 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-4

Tot Ion	Ratio	Lower	Upper
84	100		
49	150.2	125.8	188.6
51	43.8	39.3	58.9
86	60.0	51.1	76.7

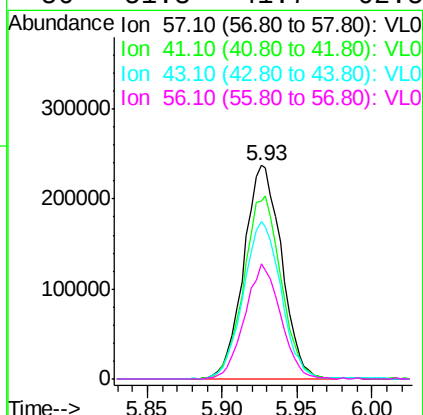
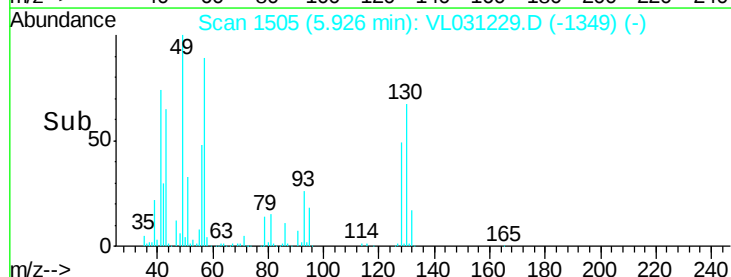
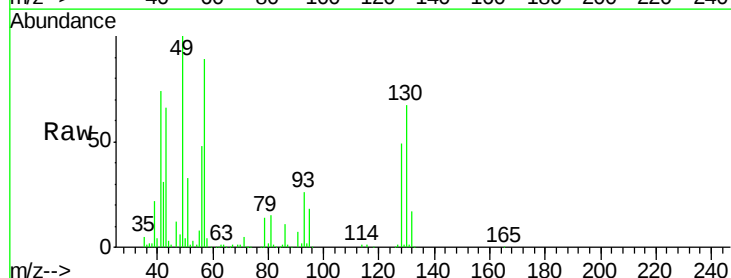
Manual Integrations
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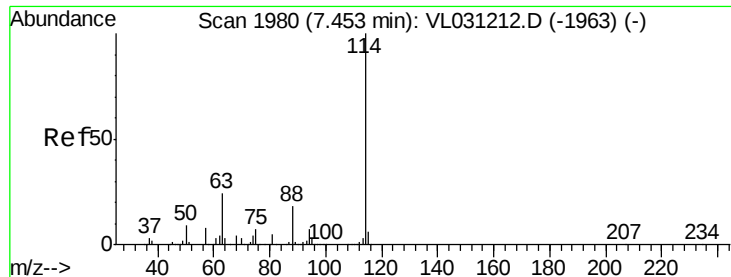
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#26
Hexane
Concen: 2.35 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Tgt Ion	Ratio	Lower	Upper
57	100		
41	83.8	70.3	105.5
43	74.6	173.8	260.8
56	51.3	41.7	62.5





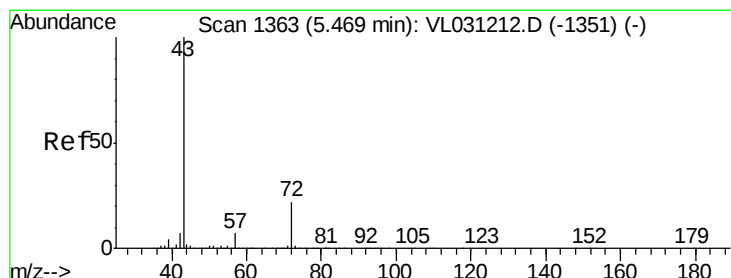
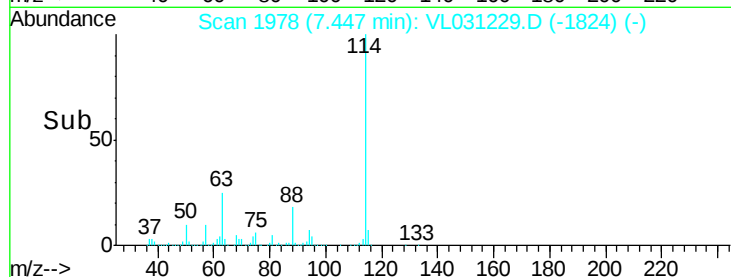
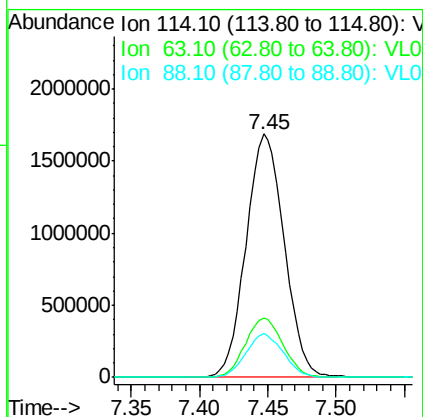
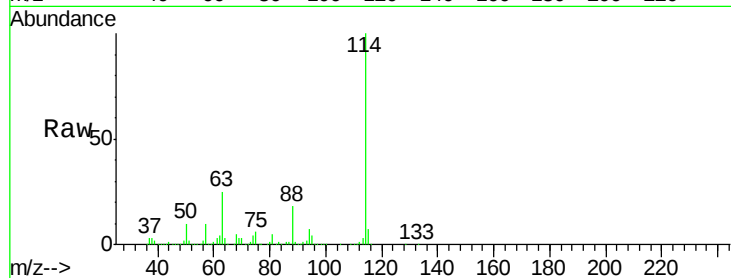
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1978
 Delta R.T. -0.01 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-UNIT-4

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.8	29.8
88	17.7	14.2	21.4

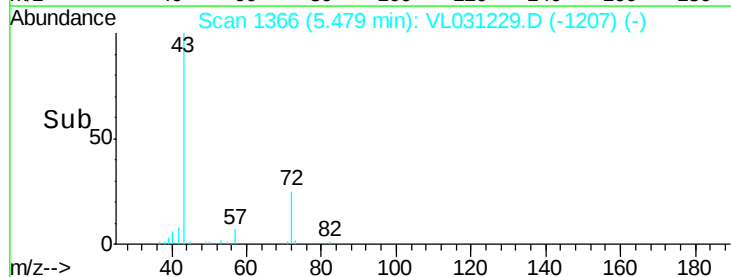
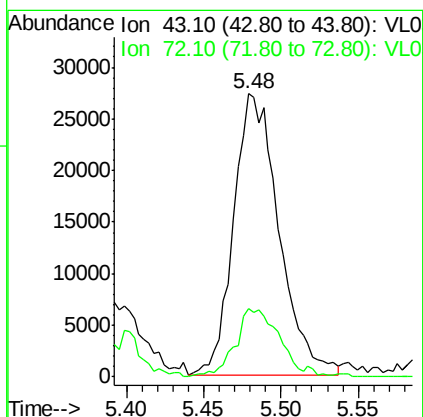
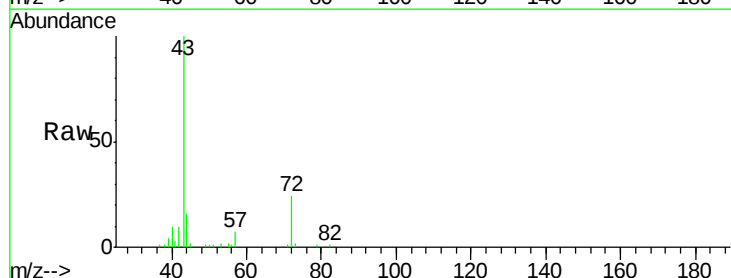
Manual Integrations
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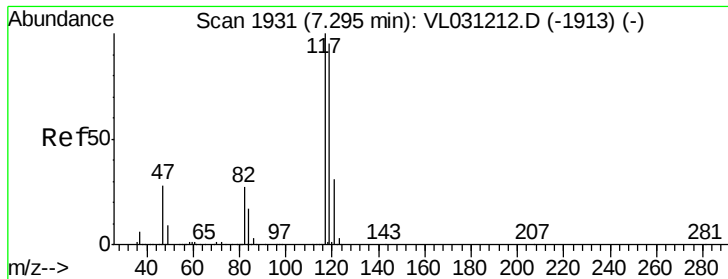
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#34
 2-Butanone
 Concen: 0.24 ppbv
 RT: 5.48 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.2	18.1	27.1





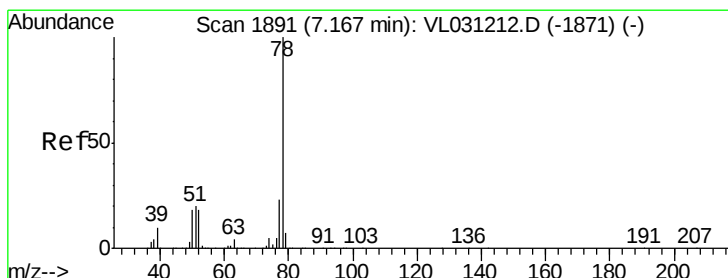
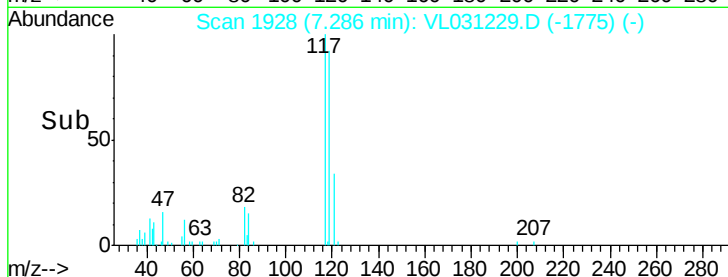
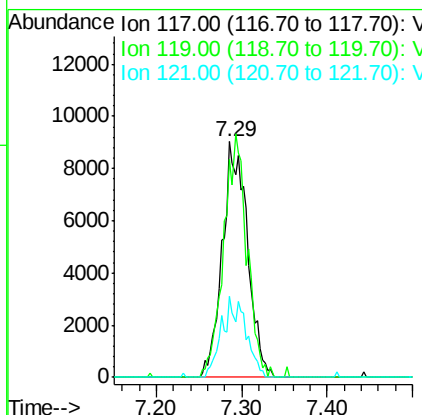
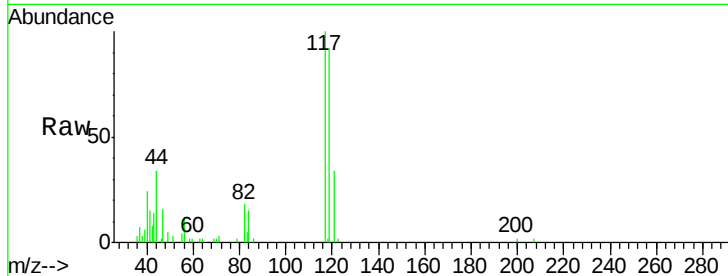
#35
Carbon Tetrachloride
Concen: 0.08 ppbv m
RT: 7.29 min Scan# 1928
Delta R.T. -0.01 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-4

Tot Ion	Ratio	Lower	Upper
117	100		
119	92.2	75.9	113.9
121	34.3	24.6	37.0

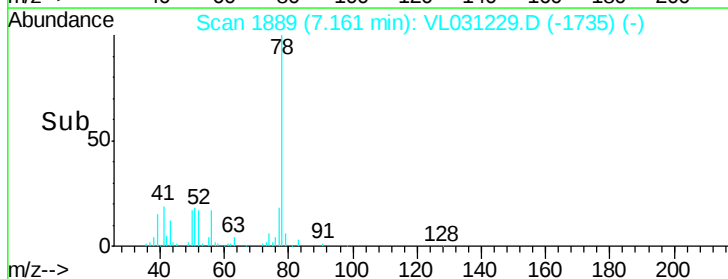
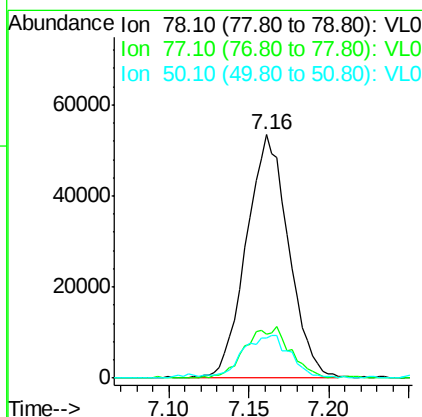
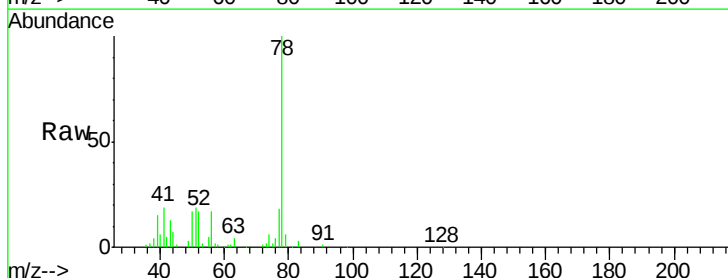
Manual Integrations
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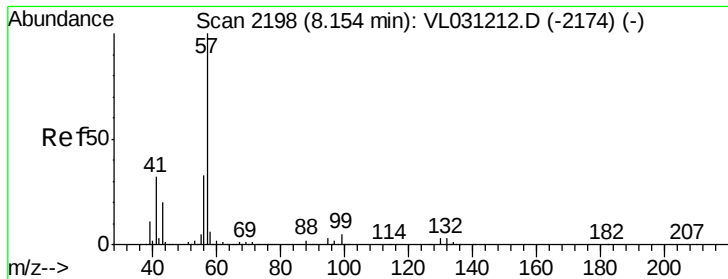
MMDadoda
12/15/2017 4:07:09 PM



#36
Benzene
Concen: 0.28 ppbv
RT: 7.16 min Scan# 1889
Delta R.T. -0.01 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	17.9	18.1	27.1#
50	16.2	14.6	21.8





#44

2,2,4-Trimethylpentane

Concen: 0.09 ppbv m

RT: 8.16 min Scan# 2199

Delta R.T. 0.00 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

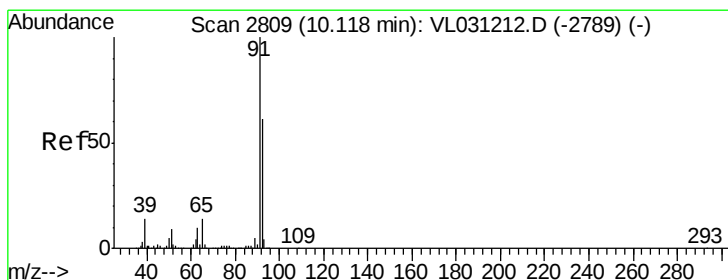
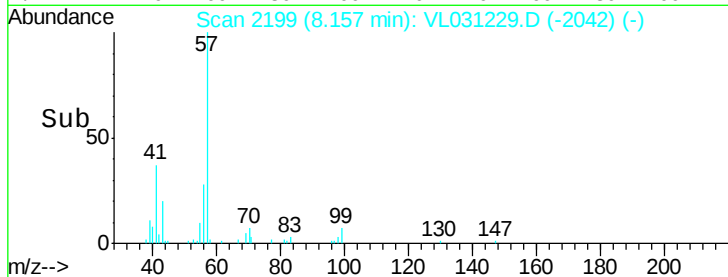
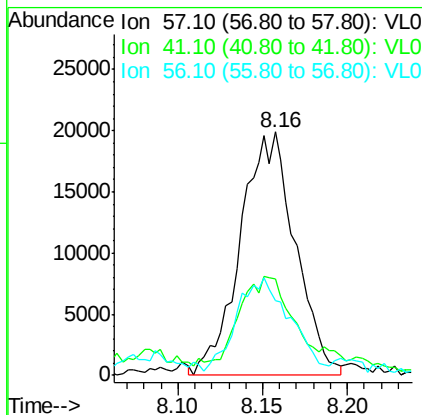
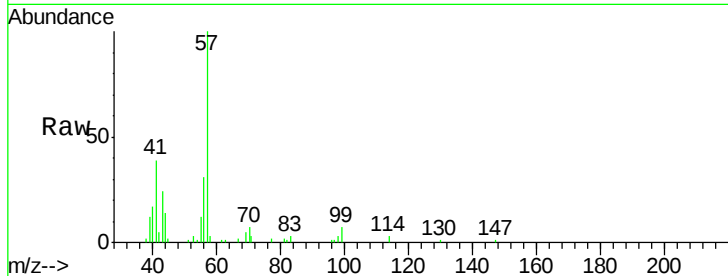
ClientSampleId :

AIR-UNIT-4

Tot Ion:	57	Resp:	44747
Ion Ratio	Lower	Upper	
57	100		
41	43.8	25.5	38.3#
56	47.4	25.0	37.6#

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#53

Toluene

Concen: 0.45 ppbv m

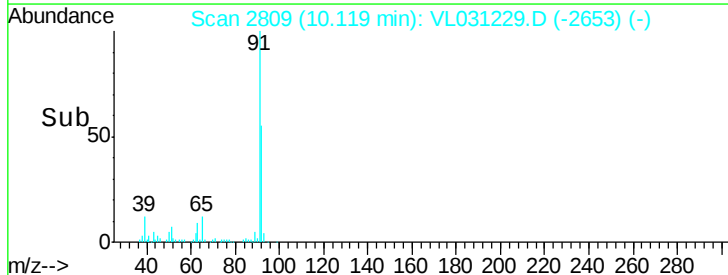
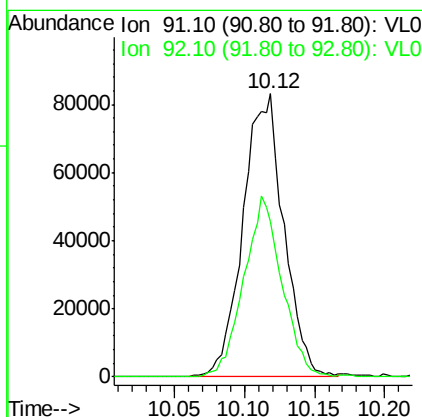
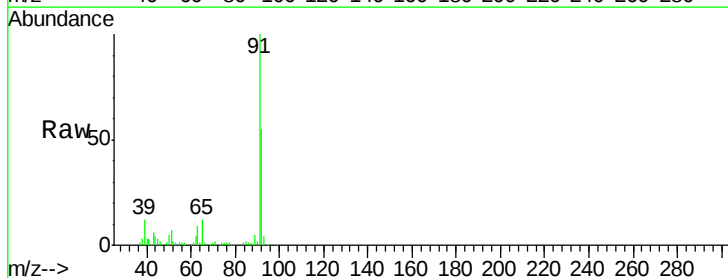
RT: 10.12 min Scan# 2809

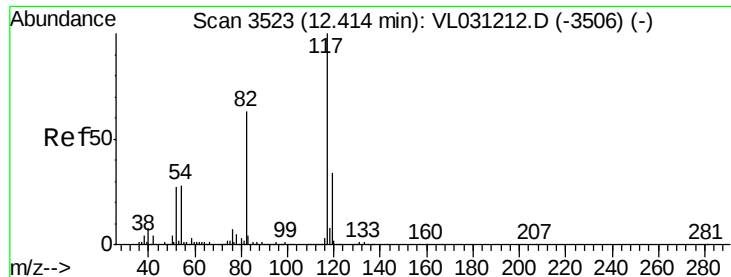
Delta R.T. 0.00 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Tgt Ion:	91	Resp:	168677
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# 3521

Delta R.T. -0.01 min

Lab File: VL031229.D

Acq: 14 Dec 2017 13:13

Instrument :

MSVOA_L

ClientSampleId :

AIR-UNIT-4

Tot Ion:117 Resp: 2555292

Ion Ratio Lower Upper

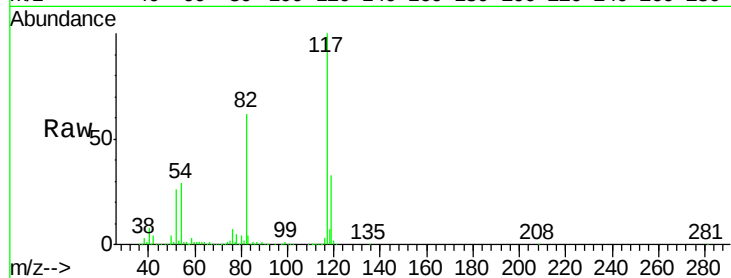
117 100

82 62.7 48.1 72.1

119 32.5 23.1 34.7

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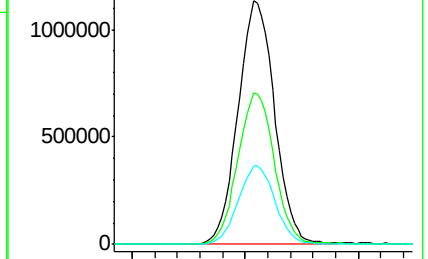
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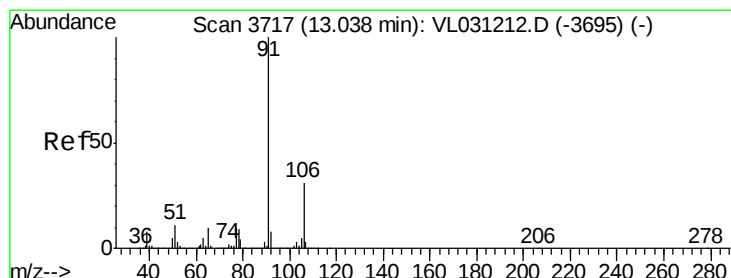
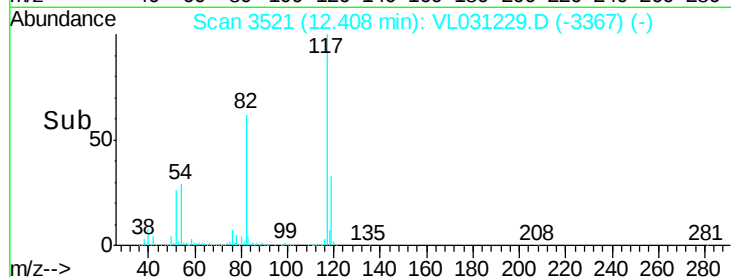
Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



Time--> 12.30 12.40 12.50



#58

Ethyl Benzene

Concen: 0.09 ppbv

RT: 13.03 min Scan# 3714

Delta R.T. -0.01 min

Lab File: VL031229.D

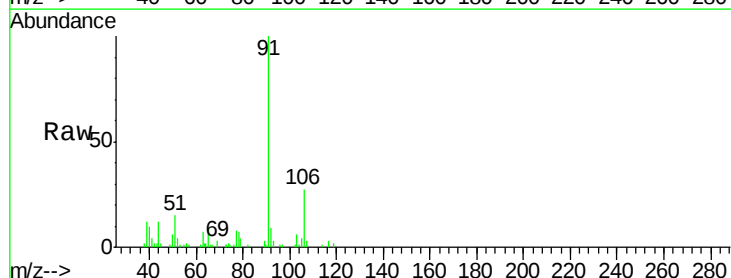
Acq: 14 Dec 2017 13:13

Tgt Ion: 91 Resp: 39682

Ion Ratio Lower Upper

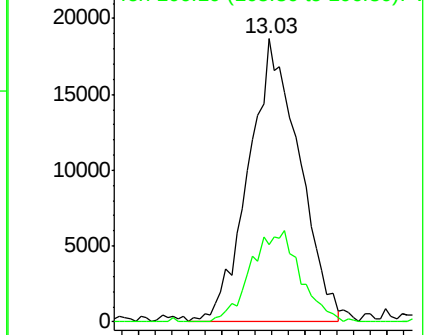
91 100

106 27.3 25.1 37.7

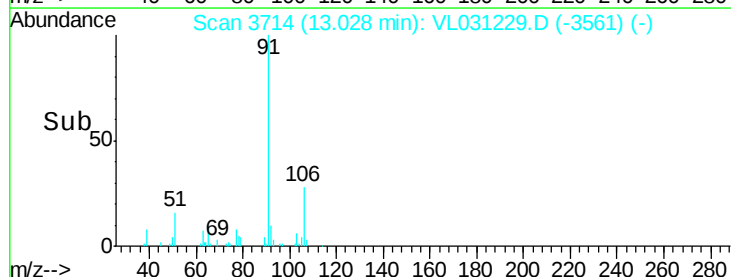


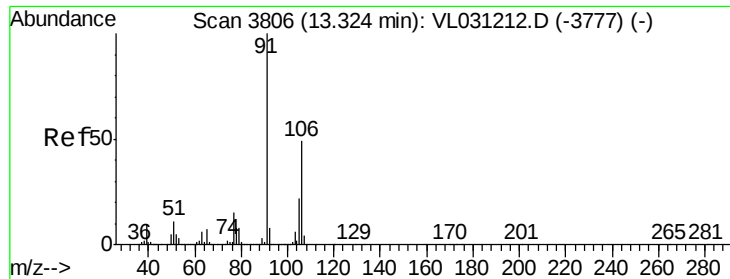
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



Time--> 12.95 13.00 13.05





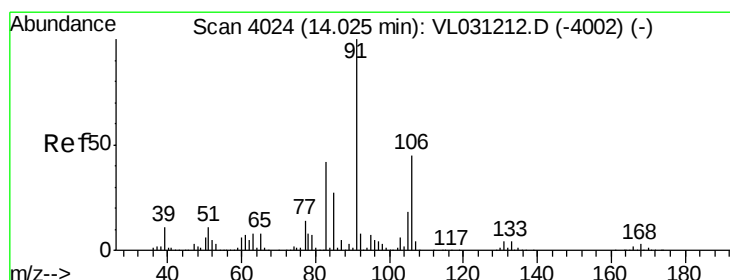
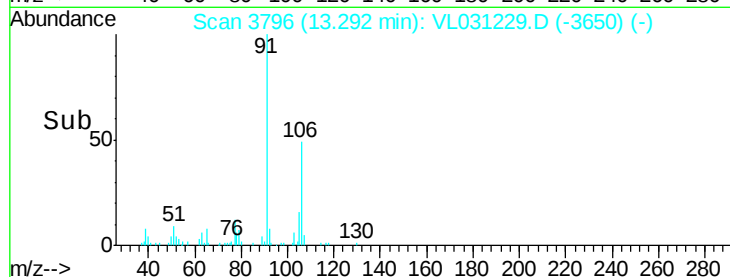
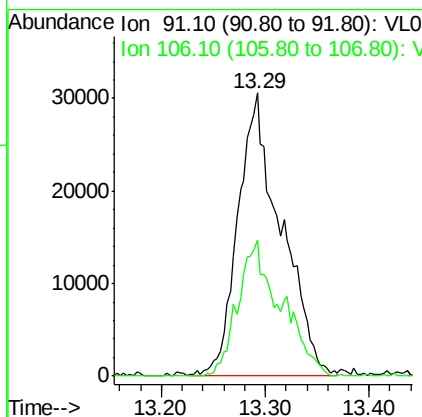
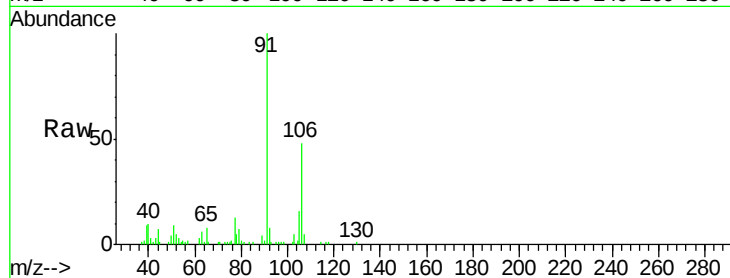
#59
m/p-Xylene
Concen: 0.26 ppbv m
RT: 13.29 min Scan# 3796
Delta R.T. -0.03 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Instrument :
MSVOA_L
ClientSampled :
AIR-UNIT-4

Tot Ion: 91 Resp: 88292
Ion Ratio Lower Upper
91 100
106 0.0 38.5 57.7#

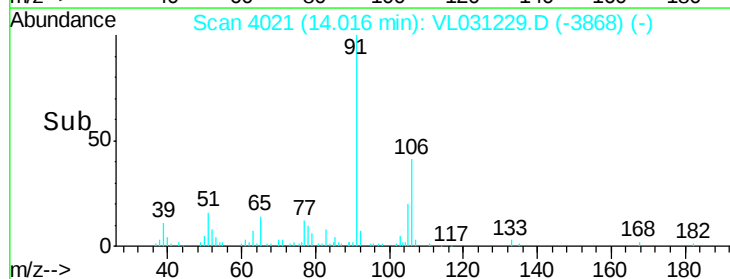
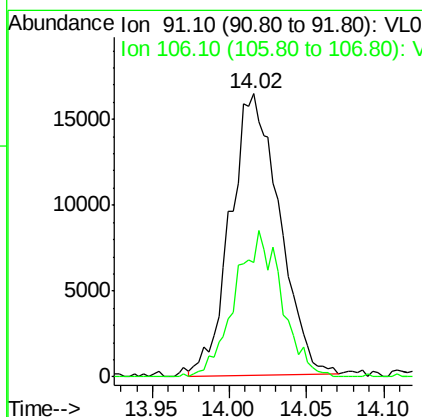
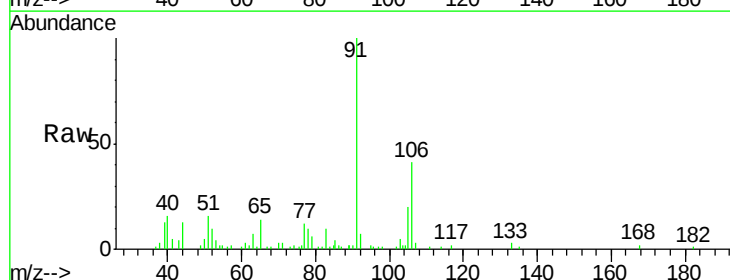
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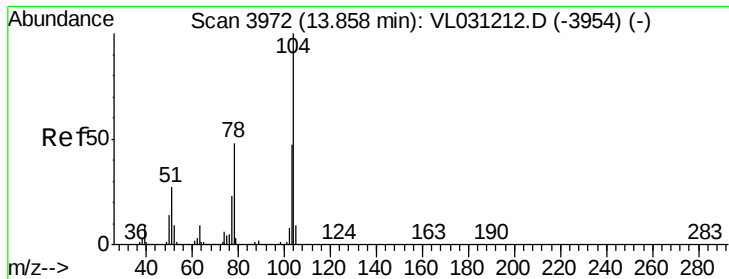
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#60
o-Xylene
Concen: 0.11 ppbv
RT: 14.02 min Scan# 4021
Delta R.T. -0.01 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Tgt Ion: 91 Resp: 36032
Ion Ratio Lower Upper
91 100
106 49.3 22.7 68.1





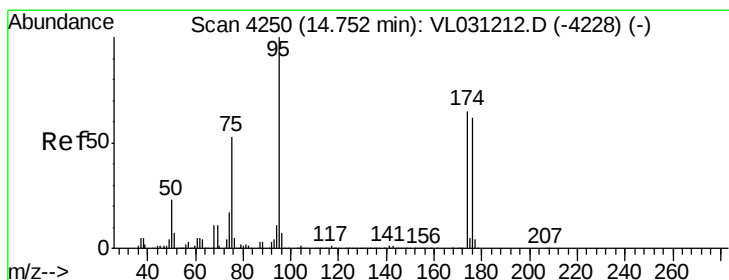
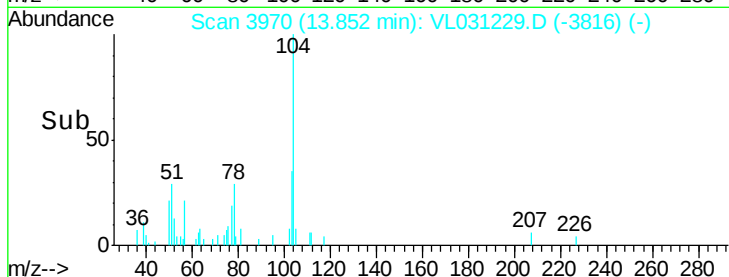
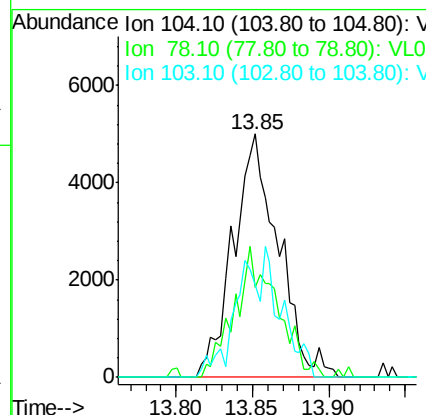
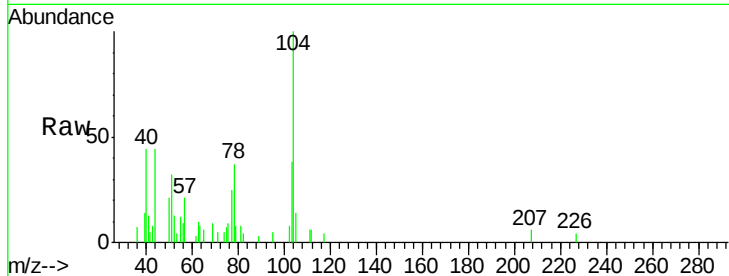
#61
Stvrene
Concen: 0.10 ppbv m
RT: 13.85 min Scan# 3970
Delta R.T. -0.01 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-4

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.3	39.1	58.7
103	51.0	37.3	55.9

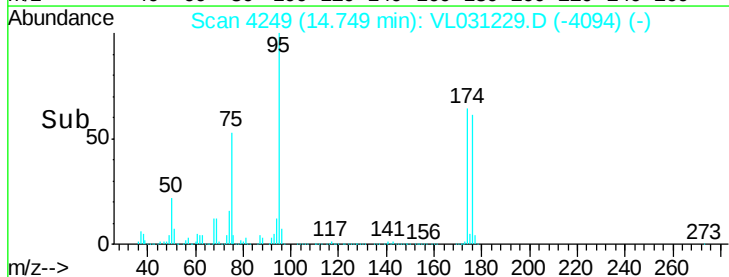
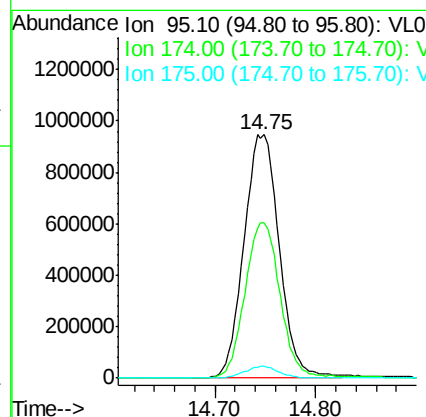
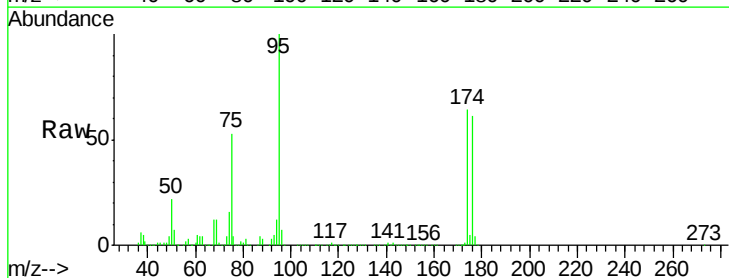
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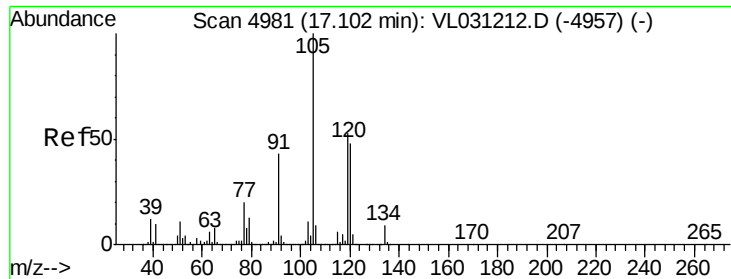
MMDadoda
12/15/2017 4:07:09 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 12.66 ppbv
RT: 14.75 min Scan# 4249
Delta R.T. -0.00 min
Lab File: VL031229.D
Acq: 14 Dec 2017 13:13

Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.1	52.5	78.7
175	4.8	4.1	6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.19 ppbv
 RT: 17.10 min Scan# 4979
 Delta R.T. -0.01 min
 Lab File: VL031229.D
 Acq: 14 Dec 2017 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-UNIT-4

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	40.7	38.6	58.0
91	10.9	34.2	51.4#
77	13.4	16.1	24.1#

Manual Integrations
 APPROVED

MMDadoda
 12/15/2017 4:07:09 PM

