

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031275.D
 Acq On : 20 Dec 2017 18:06
 Operator : SY/AP
 Sample : I7005-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-1

Manual Integrations
 APPROVED

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 12/22/2017 4:54:51 PM

Quant Time: Dec 22 04:33:57 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	1605025	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.46	114	3674684	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3672610	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2854283	10.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.30%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.18	85	65039	0.48	ppbv	97
3) Chlorodifluoromethane	3.12	51	31256	0.17	ppbv	98
4) Chloromethane	3.28	50	66182	0.67	ppbv	90
9) Propene	3.14	41	560955	6.26	ppbv	100
10) Heptane	8.40	43	68892m	0.25	ppbv	
11) Trichlorofluoromethane	4.13	101	199381	0.89	ppbv	97
13) Ethanol	3.77	45	221837	8.59	ppbv	98
15) Acetone	4.02	43	2857722	13.49	ppbv #	58
17) tert-Butyl alcohol	4.50	59	198348	1.67	ppbv	96
20) Methylene Chloride	4.54	84	40786	0.58	ppbv	95
26) Hexane	5.93	57	137526	0.67	ppbv #	5
32) 1,1,1-Trichloroethane	6.78	97	11703	0.04	ppbv	91
34) 2-Butanone	5.47	43	8436307	32.51	ppbv	98
36) Benzene	7.17	78	150529	0.39	ppbv	98
41) Tetrahydrofuran	6.31	42	26033m	0.18	ppbv	
44) 2,2,4-Trimethylpentane	8.16	57	69039	0.12	ppbv #	67
51) 2-Hexanone	10.44	43	848487	2.80	ppbv #	97
52) Tetrachloroethene	11.55	164	903729	6.29	ppbv	95
53) Toluene	10.12	91	8327459	19.71	ppbv	99
58) Ethyl Benzene	13.04	91	499376	0.82	ppbv	96
59) m/p-Xylene	13.29	91	1248533	2.57	ppbv	97
60) o-Xylene	14.02	91	458279	0.94	ppbv	99
61) Styrene	13.85	104	53403m	0.38	ppbv	
72) 4-Ethyltoluene	16.17	105	64323	0.12	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.33	105	62235m	0.13	ppbv	
74) 1,2,4-Trimethylbenzene	17.09	105	156873m	0.31	ppbv	

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

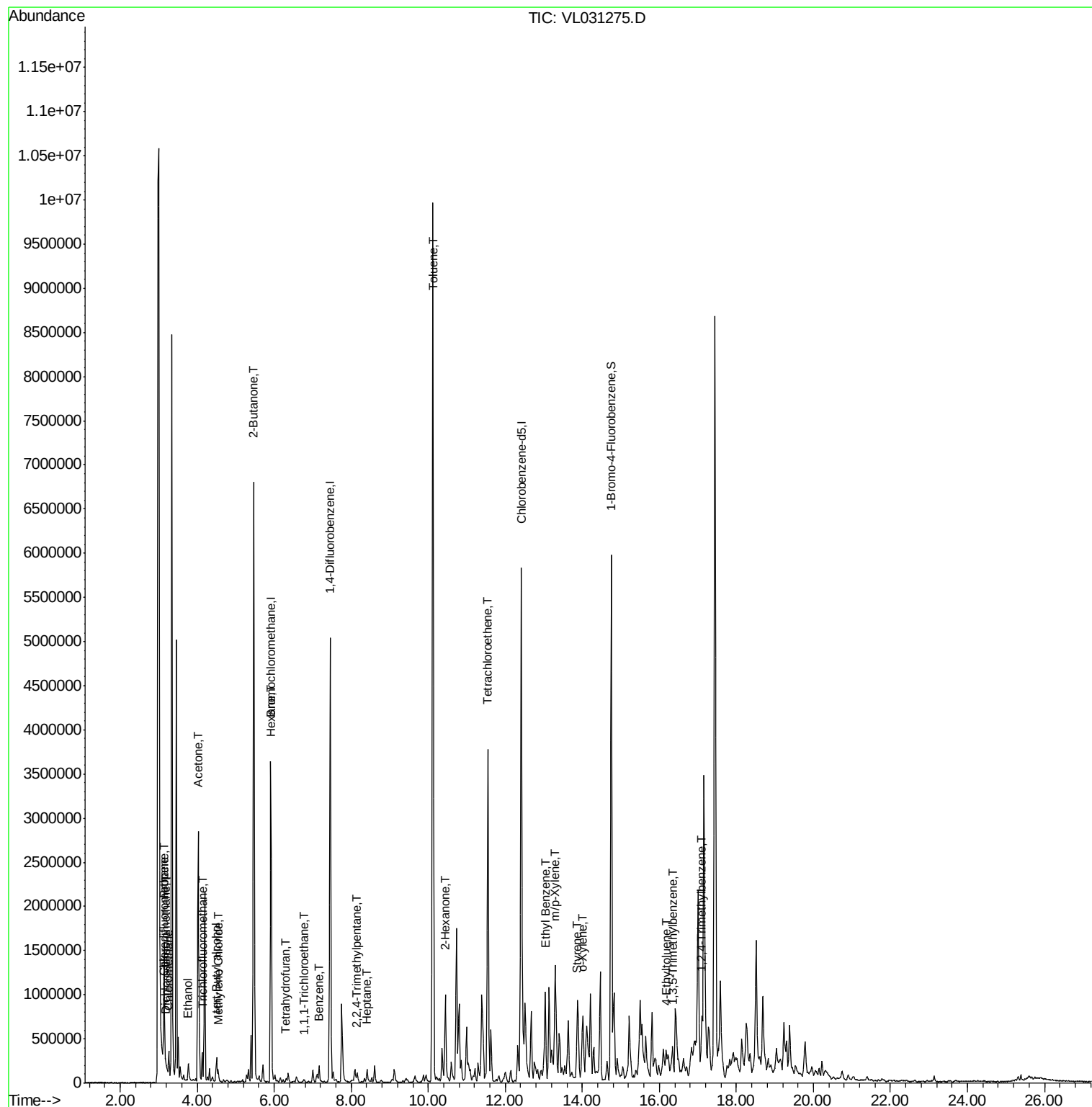
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
Data File : VL031275.D
Acq On : 20 Dec 2017 18:06
Operator : SY/AP
Sample : I7005-02
Misc : 400ml/MSVOA L
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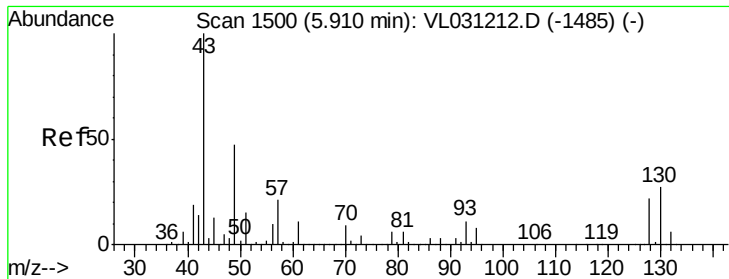
Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-1

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Quant Time: Dec 22 04:33:57 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: VL031275.D

Acq: 20 Dec 2017 18:06

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-1

Tot Ion: 49 Resp: 1605025

Ion Ratio Lower Upper

49 100

128 47.4 23.2 69.5

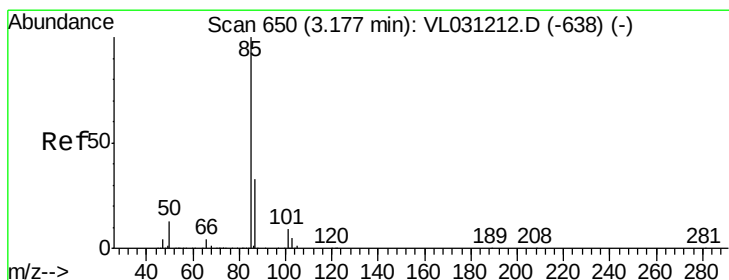
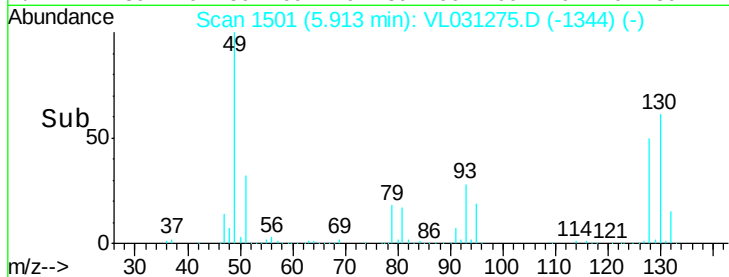
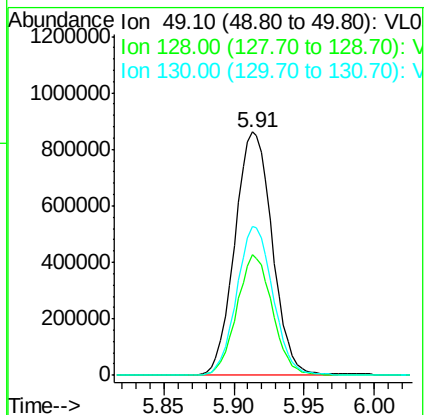
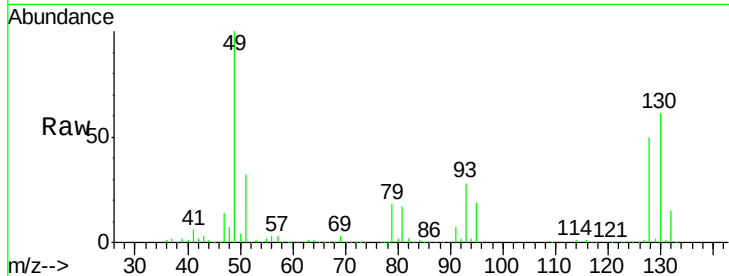
130 59.9 29.6 88.8

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.48 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031275.D

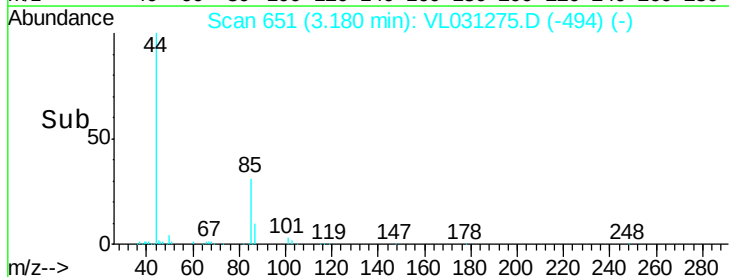
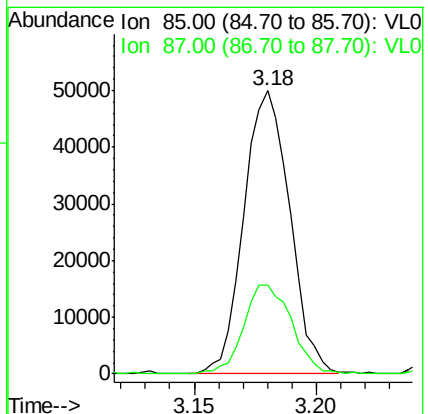
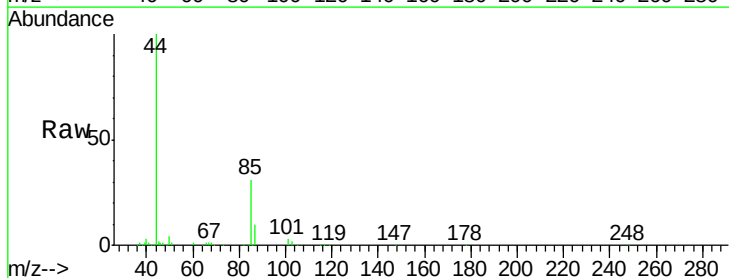
Acq: 20 Dec 2017 18:06

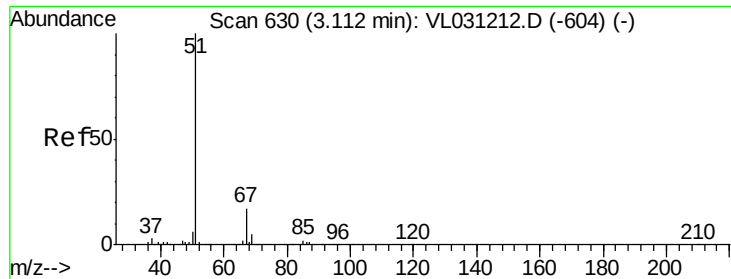
Tgt Ion: 85 Resp: 65039

Ion Ratio Lower Upper

85 100

87 31.3 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.17 ppbv

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL031275.D

Acq: 20 Dec 2017 18:06

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-1

Tot Ion: 51 Resp: 31256

Ion Ratio Lower Upper

51 100

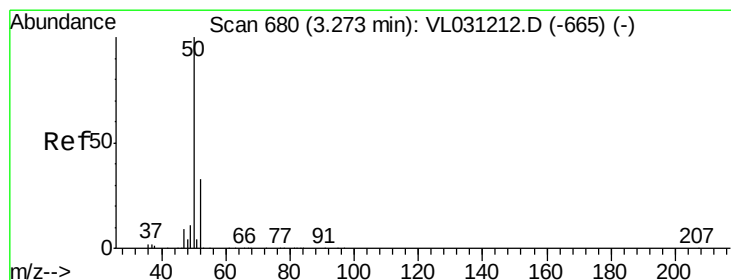
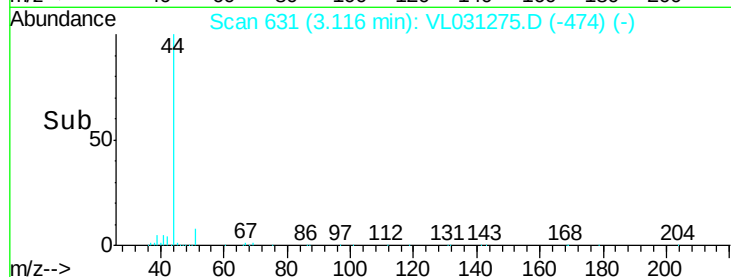
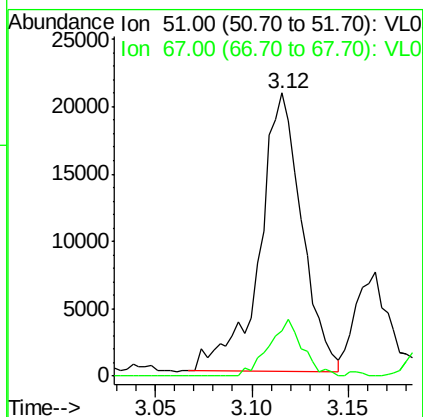
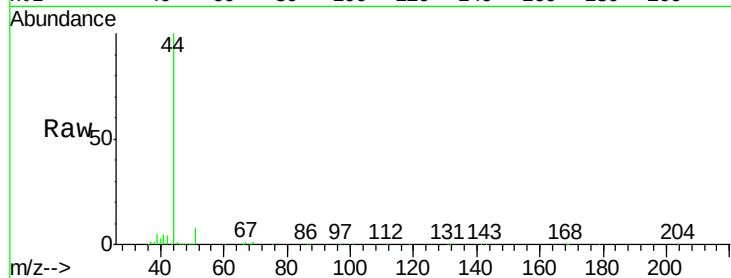
67 16.3 13.8 20.6

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#4

Chloromethane

Concen: 0.67 ppbv

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031275.D

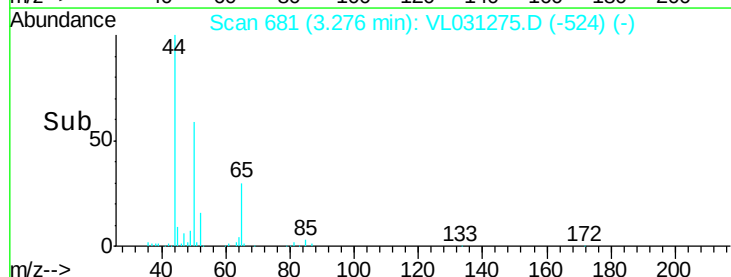
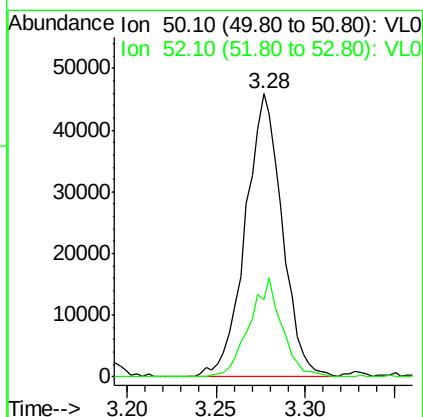
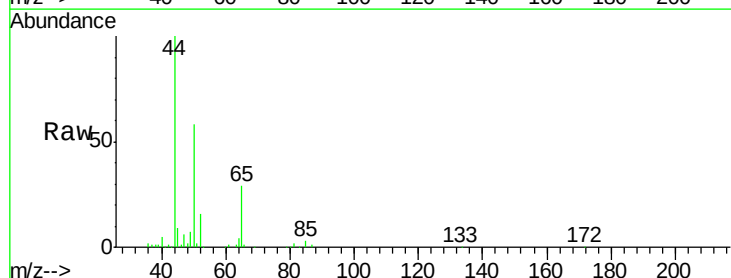
Acq: 20 Dec 2017 18:06

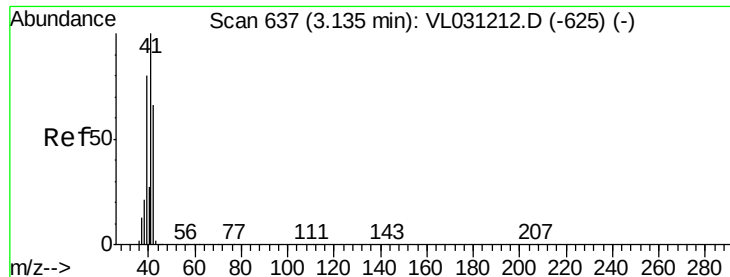
Tgt Ion: 50 Resp: 66182

Ion Ratio Lower Upper

50 100

52 27.4 26.5 39.7





#9

Propene

Concen: 6.26 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031275.D

Acq: 20 Dec 2017 18:06

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-1

Tot Ion: 41 Resp: 560955

Ion Ratio Lower Upper

41 100

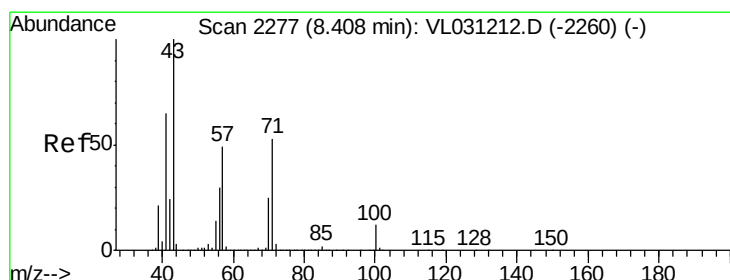
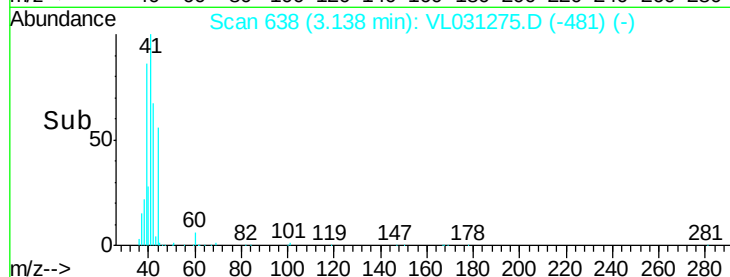
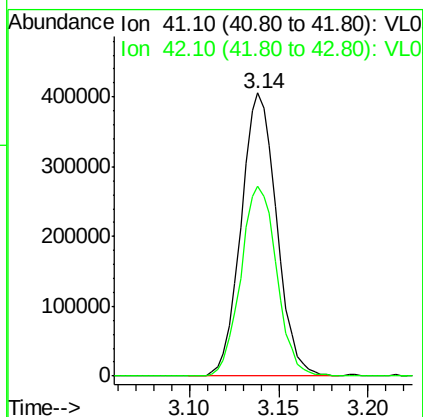
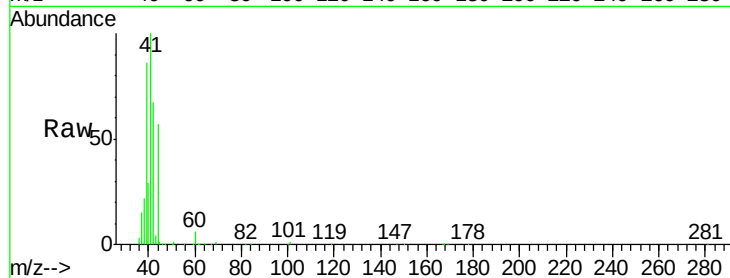
42 68.2 54.3 81.5

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#10

Heptane

Concen: 0.25 ppbv m

RT: 8.40 min Scan# 2276

Delta R.T. -0.00 min

Lab File: VL031275.D

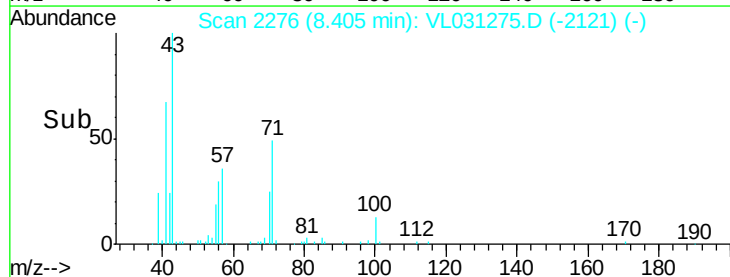
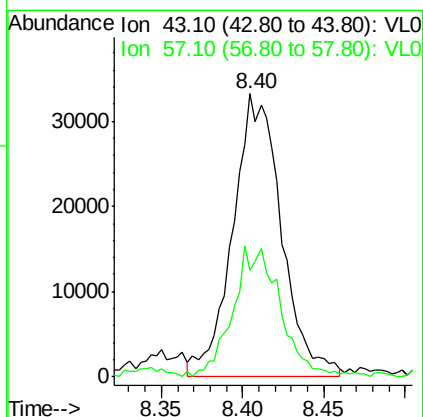
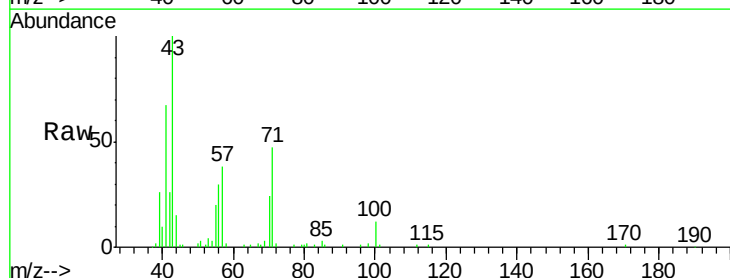
Acq: 20 Dec 2017 18:06

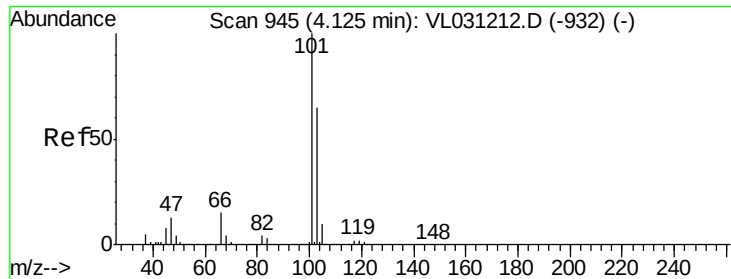
Tgt Ion: 43 Resp: 68892

Ion Ratio Lower Upper

43 100

57 0.0 39.8 59.8#





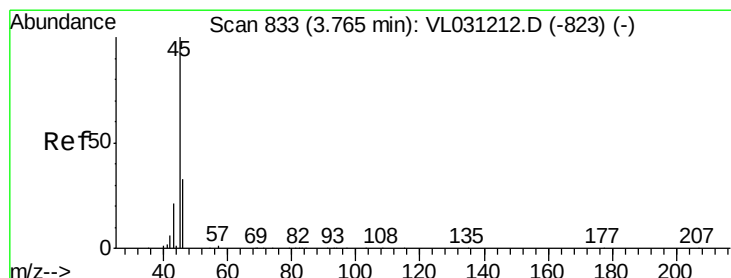
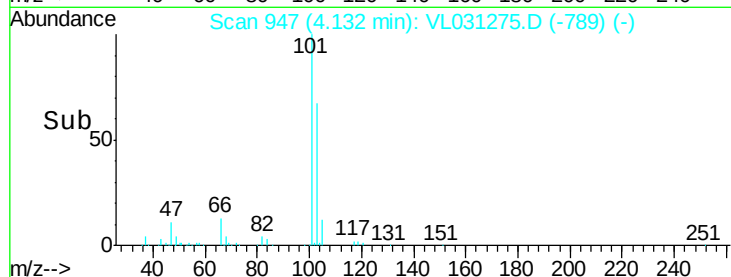
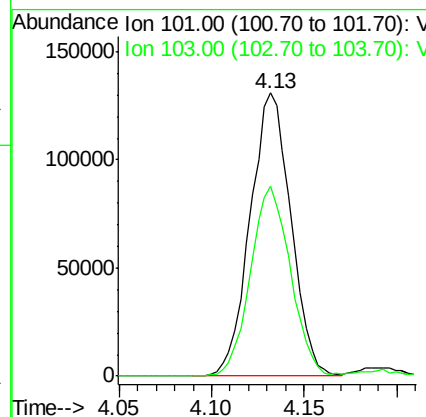
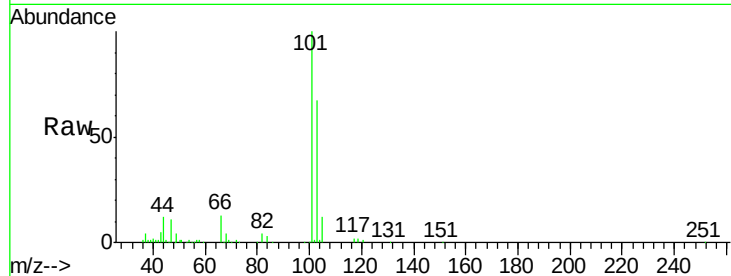
#11
 Trichlorofluoromethane
 Concen: 0.89 ppbv
 RT: 4.13 min Scan# 947
 Delta R.T. 0.01 min
 Lab File: VL031275.D
 Acq: 20 Dec 2017 18:06

Instrument :
 MSVOA_L
 ClientSampled :
 EP1-SV-1

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.0	51.8	77.8

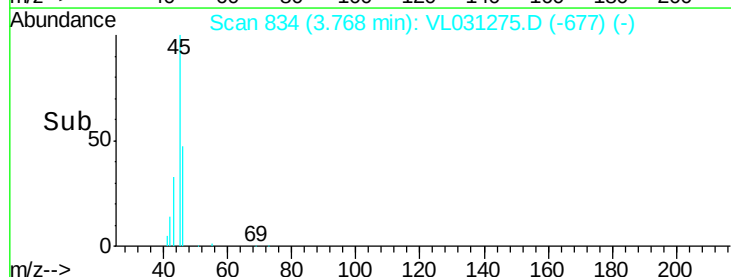
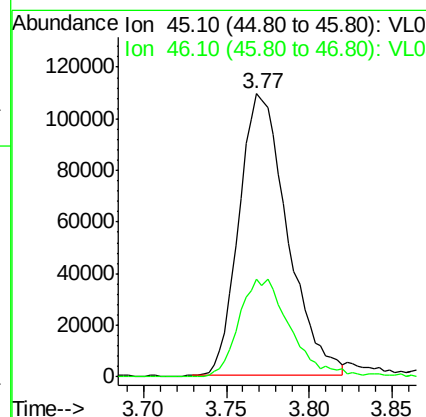
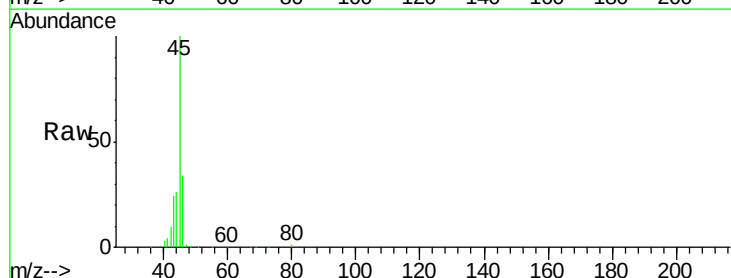
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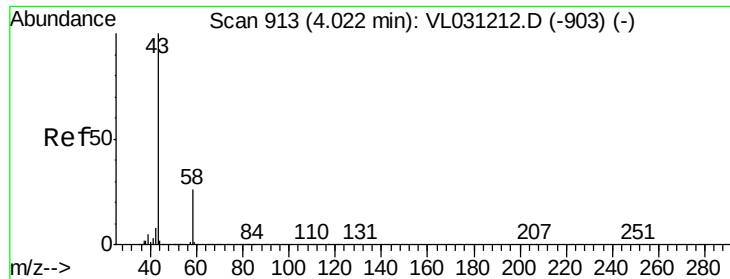
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#13
 Ethanol
 Concen: 8.59 ppbv
 RT: 3.77 min Scan# 834
 Delta R.T. 0.00 min
 Lab File: VL031275.D
 Acq: 20 Dec 2017 18:06

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.7	14.6	58.4





#15

Acetone

Concen: 13.49 ppbv

RT: 4.02 min Scan# 913

Delta R.T. 0.00 min

Lab File: VL031275.D

Acq: 20 Dec 2017 18:06

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-1

Tot Ion: 43 Resp: 2857722

Ion Ratio Lower Upper

43 100

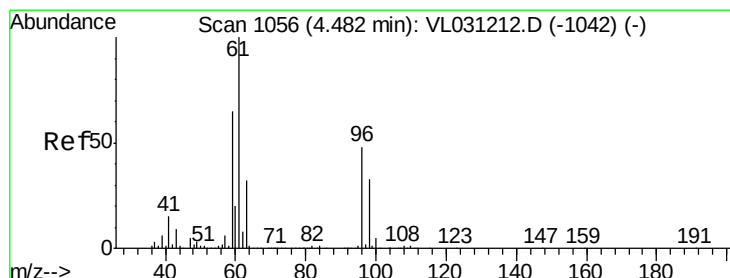
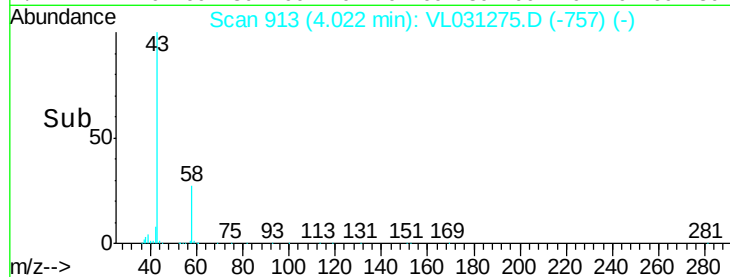
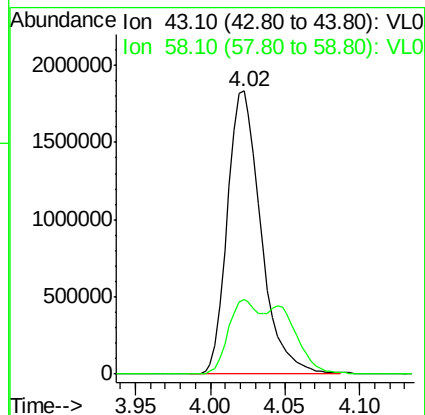
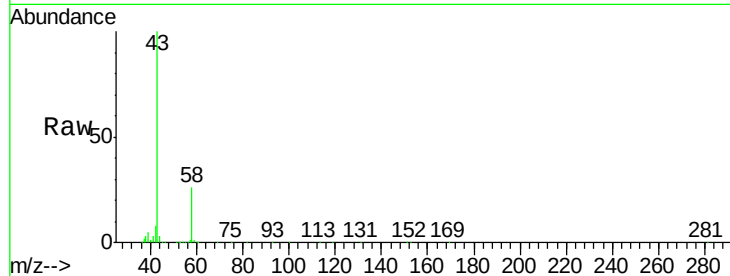
58 46.9 20.3 30.5#

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#17

tert-Butyl alcohol

Concen: 1.67 ppbv

RT: 4.50 min Scan# 1062

Delta R.T. 0.02 min

Lab File: VL031275.D

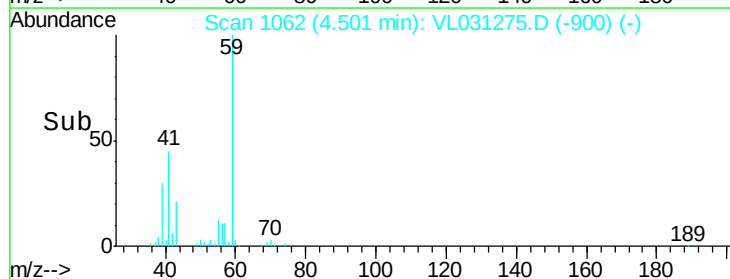
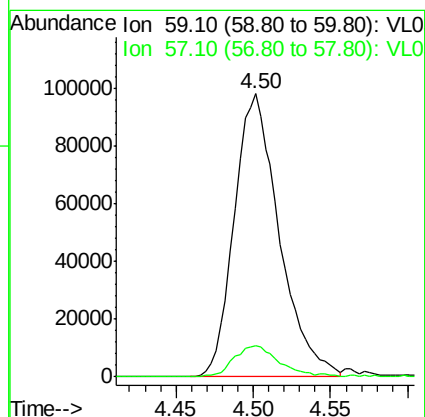
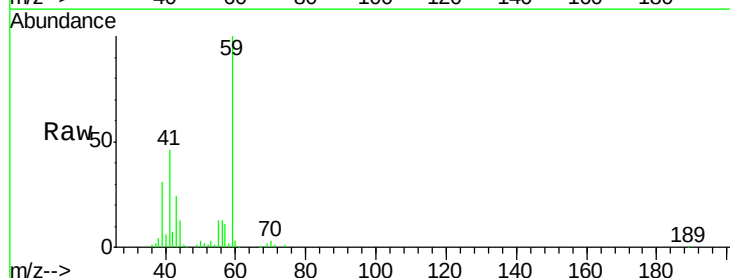
Acq: 20 Dec 2017 18:06

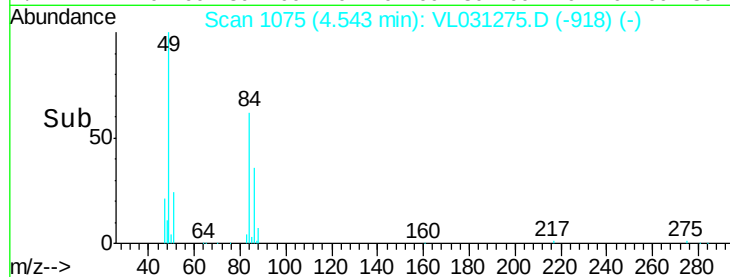
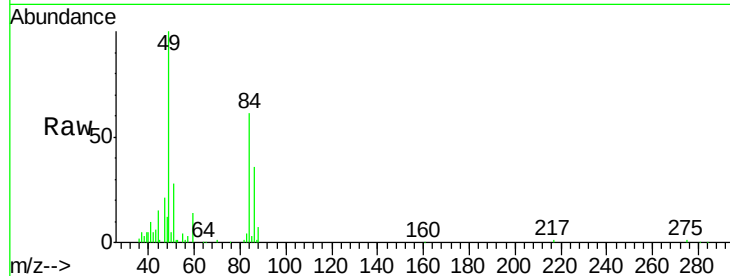
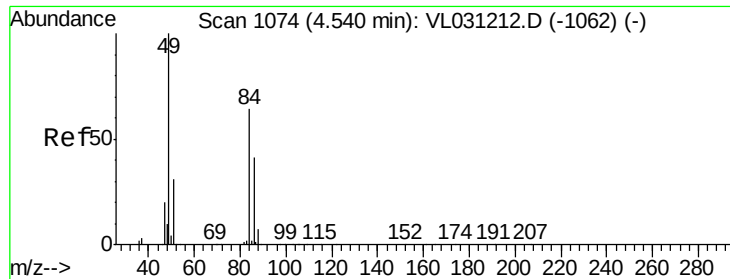
Tgt Ion: 59 Resp: 198348

Ion Ratio Lower Upper

59 100

57 11.6 8.2 12.2





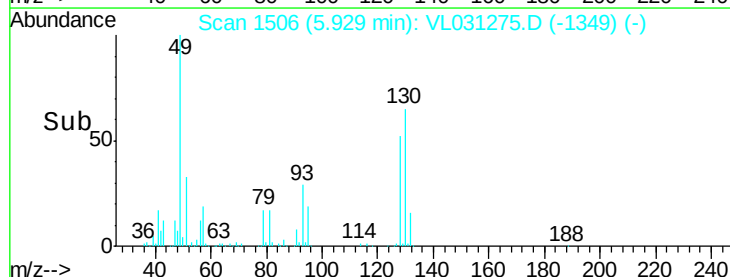
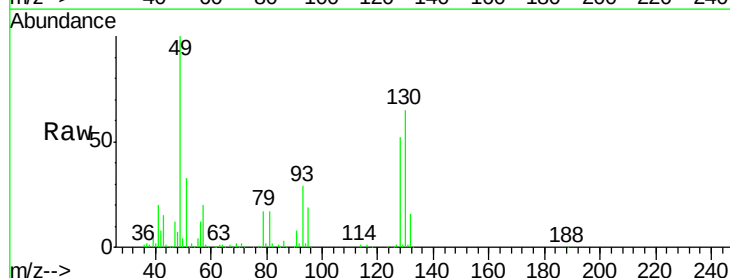
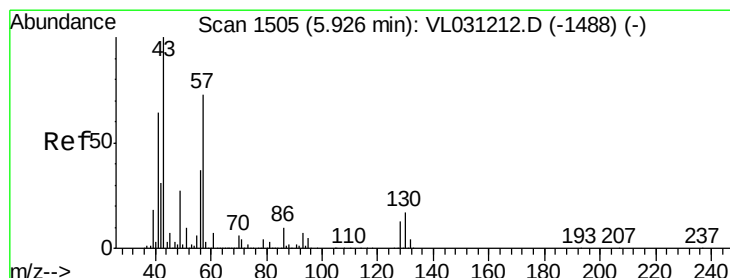
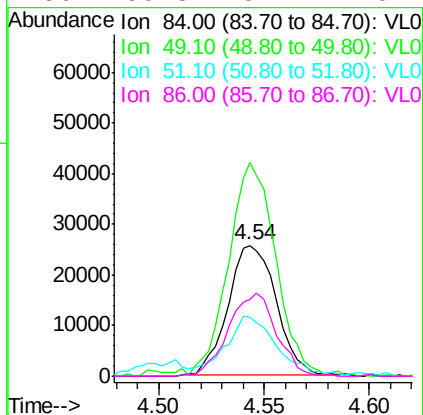
#20
Methvlene Chloride
Concen: 0.58 ppbv
RT: 4.54 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VL031275.D
Acq: 20 Dec 2017 18:06

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	163.3	125.8	188.6		
51	44.2	39.3	58.9		
86	59.3	51.1	76.7		

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-1

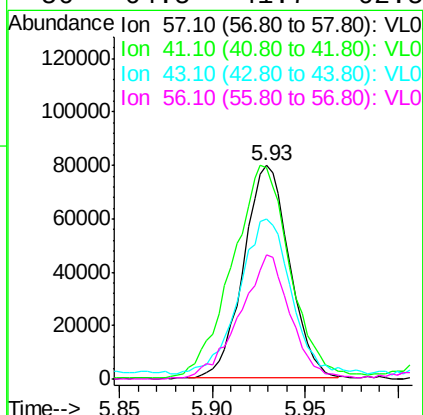
Manual Integrations
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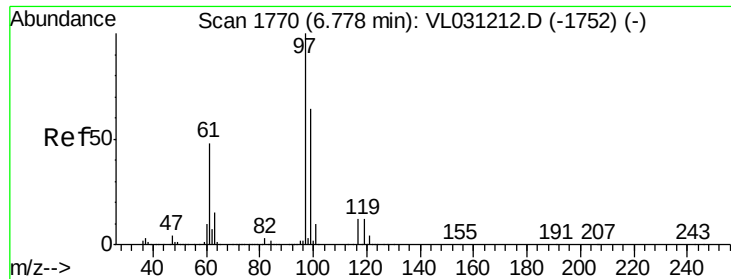
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#26
Hexane
Concen: 0.67 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031275.D
Acq: 20 Dec 2017 18:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	125.9	70.3	105.5#		
43	0.0	173.8	260.8#		
56	64.5	41.7	62.5#		





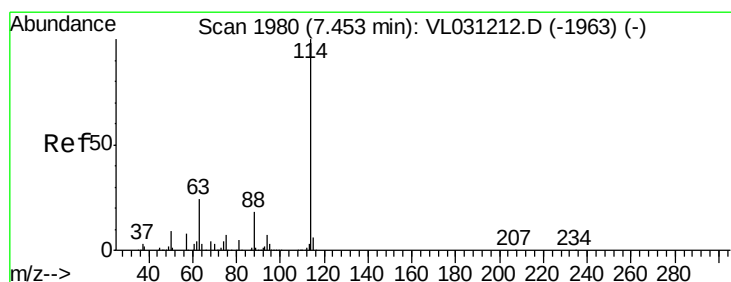
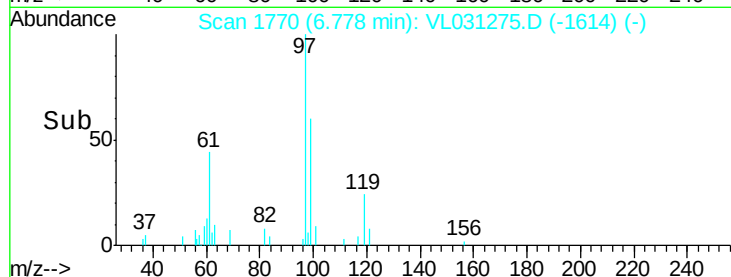
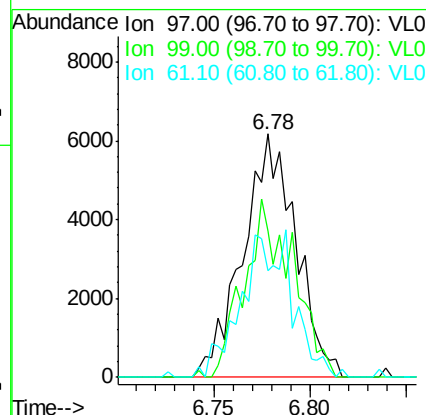
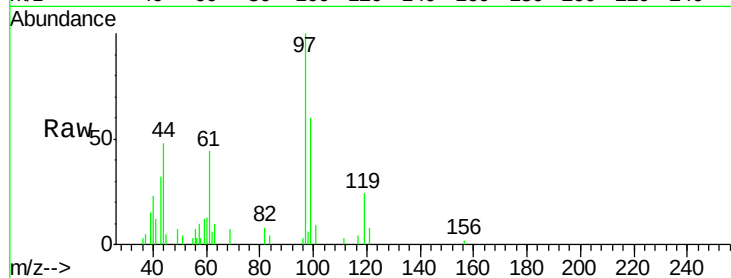
#32
 1,1,1-Trichloroethane
 Concen: 0.04 ppbv
 RT: 6.78 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VL031275.D
 Acq: 20 Dec 2017 18:06

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-1

Tot Ion	Ratio	Lower	Upper
97	100		
99	67.8	51.4	77.0
61	57.3	38.4	57.6

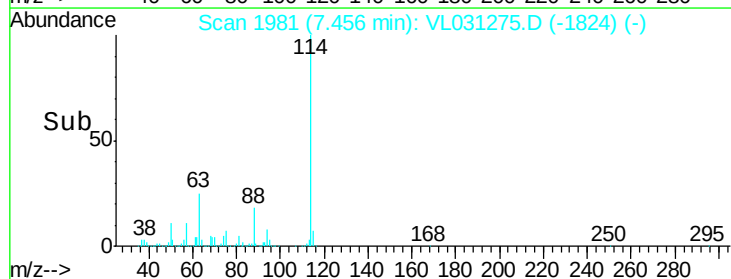
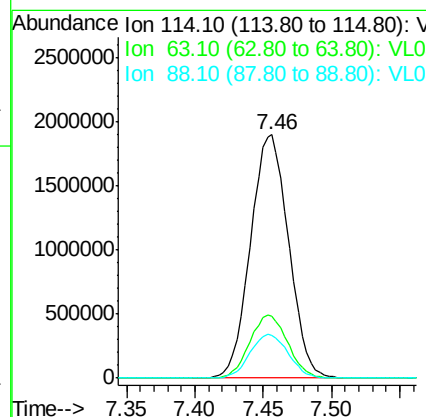
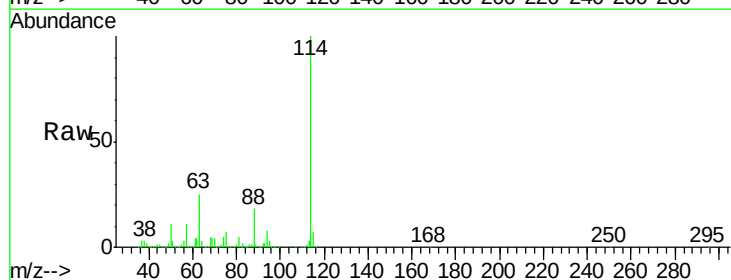
Manual Integrations
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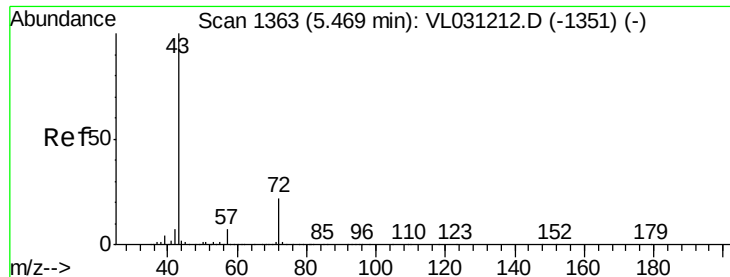
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#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VL031275.D
 Acq: 20 Dec 2017 18:06

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.0	19.8	29.8
88	18.2	14.2	21.4





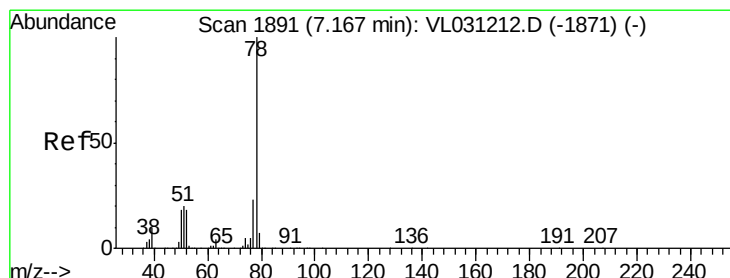
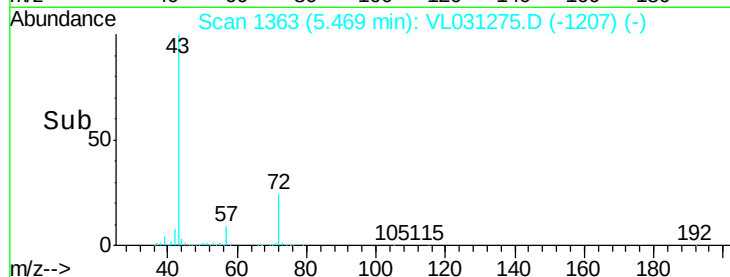
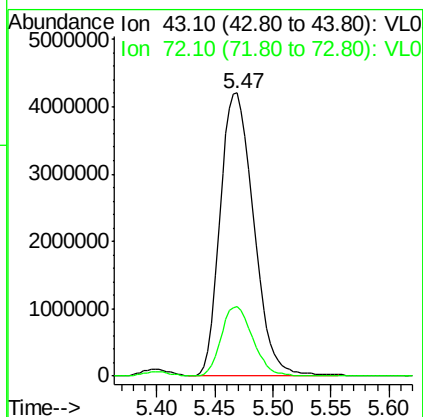
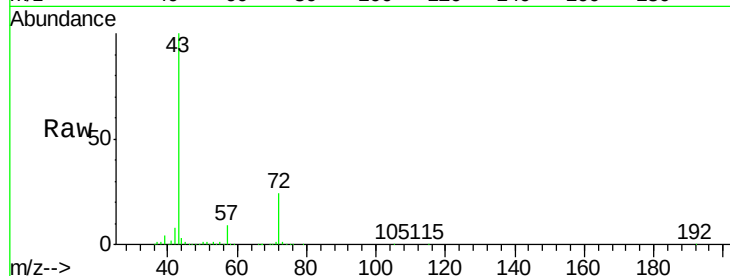
#34
2-Butanone
Concen: 32.51 ppbv
RT: 5.47 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VL031275.D
Acq: 20 Dec 2017 18:06

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-1

Tot Ion: 43 Resp: 8436307
Ion Ratio Lower Upper
43 100
72 23.7 18.1 27.1

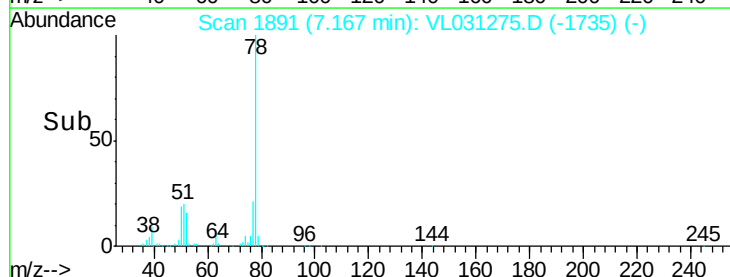
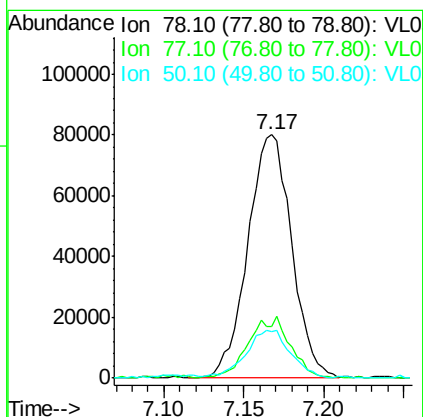
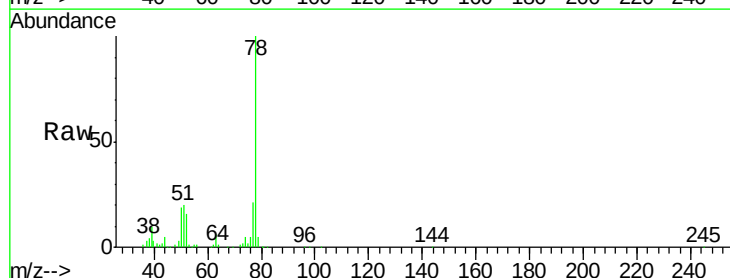
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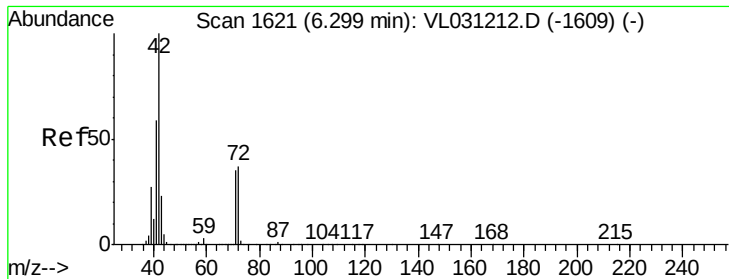
MMDadoda
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#36
Benzene
Concen: 0.39 ppbv
RT: 7.17 min Scan# 1891
Delta R.T. 0.00 min
Lab File: VL031275.D
Acq: 20 Dec 2017 18:06

Tgt Ion: 78 Resp: 150529
Ion Ratio Lower Upper
78 100
77 20.9 18.1 27.1
50 18.6 14.6 21.8





#41

Tetrahydrofuran

Concen: 0.18 ppbv m

RT: 6.31 min Scan# 1625

Delta R.T. 0.01 min

Lab File: VL031275.D

Acq: 20 Dec 2017 18:06

Instrument :

MSVOA_L

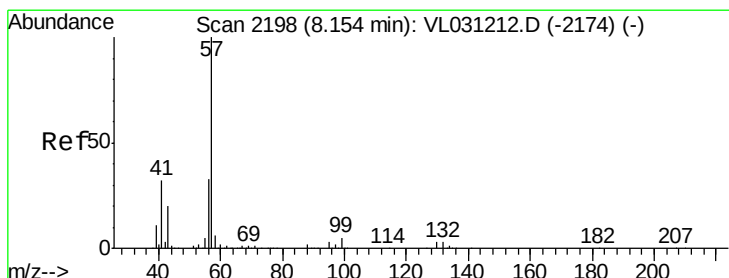
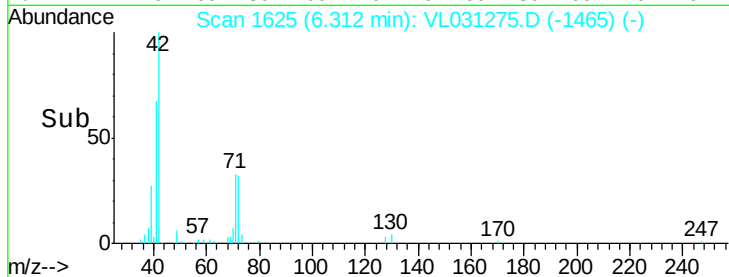
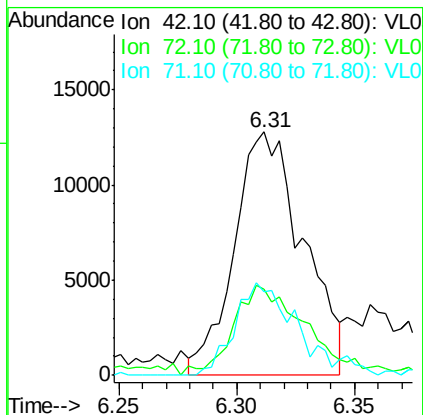
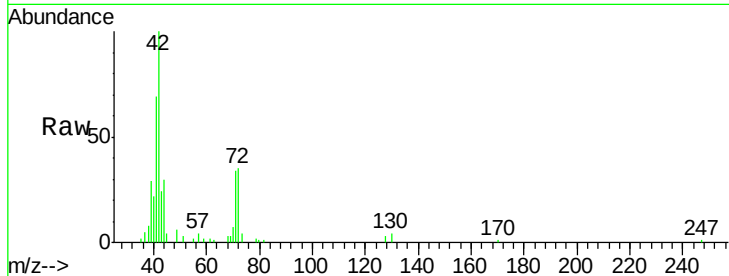
ClientSampleId :

EP1-SV-1

Tot Ion	42	Resp:	26033
Ion Ratio	Lower	Upper	
42	100		
72	42.8	30.2	45.4
71	34.9	29.0	43.6

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#44

2,2,4-Trimethylpentane

Concen: 0.12 ppbv

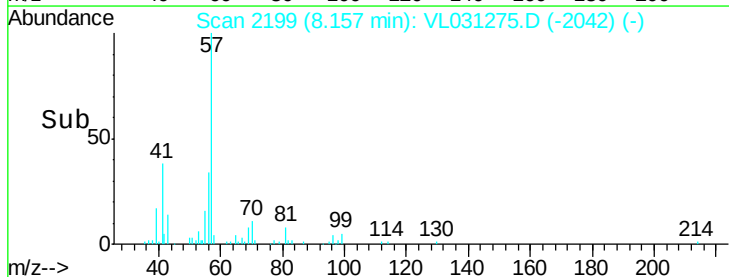
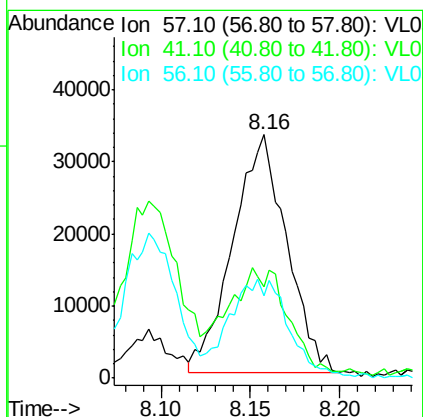
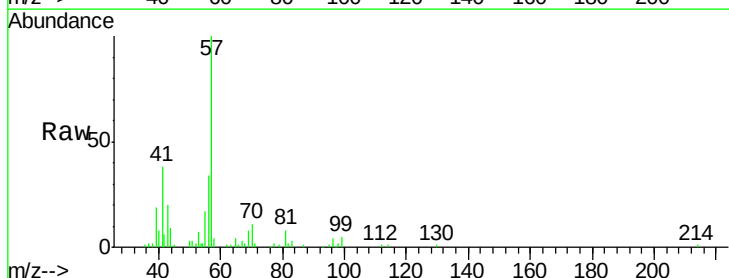
RT: 8.16 min Scan# 2199

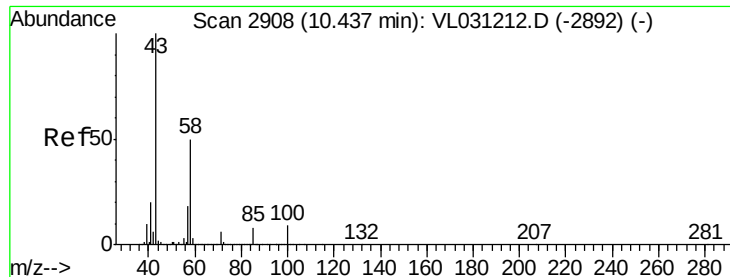
Delta R.T. 0.00 min

Lab File: VL031275.D

Acq: 20 Dec 2017 18:06

Tgt Ion	57	Resp:	69039
Ion Ratio	Lower	Upper	
57	100		
41	52.9	25.5	38.3#
56	46.7	25.0	37.6#





#51

2-Hexanone

Concen: 2.80 ppbv

RT: 10.44 min Scan# 2910

Delta R.T. 0.01 min

Lab File: VL031275.D

Acq: 20 Dec 2017 18:06

Instrument :

MSVOA_L

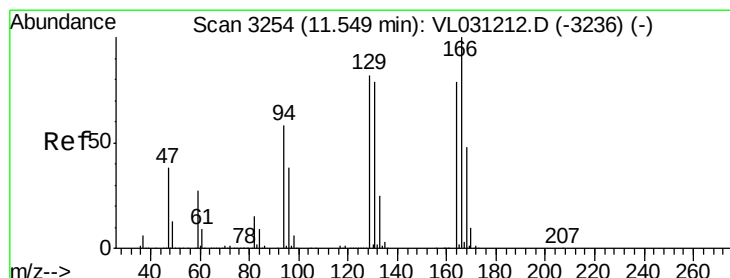
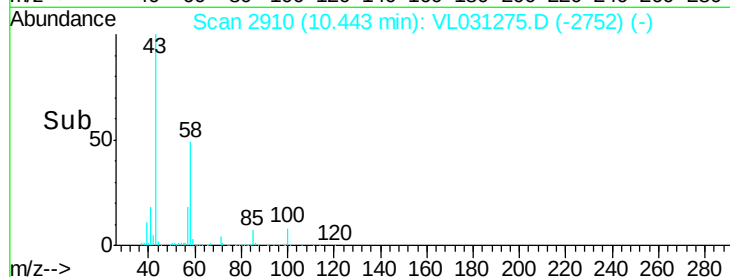
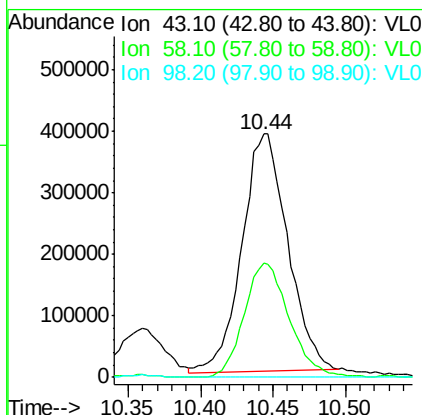
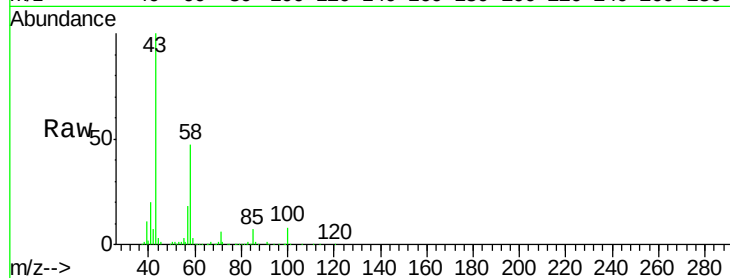
ClientSampleId :

EP1-SV-1

Tot Ion:	43	Resp:	848487
Ion Ratio	Lower	Upper	
43	100		
58	47.6	39.8	59.6
98	0.2	0.0	0.0#

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#52

Tetrachloroethene

Concen: 6.29 ppbv

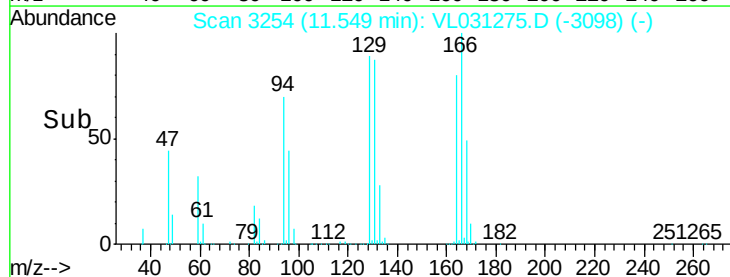
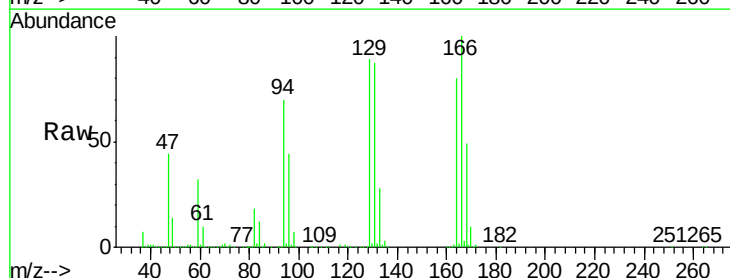
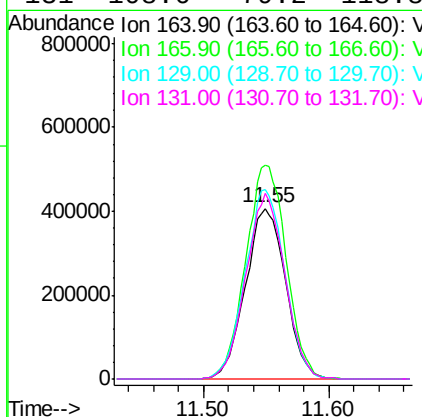
RT: 11.55 min Scan# 3254

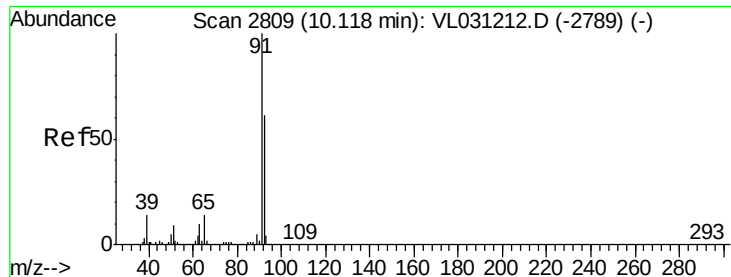
Delta R.T. 0.00 min

Lab File: VL031275.D

Acq: 20 Dec 2017 18:06

Tgt Ion:	164	Resp:	903729
Ion Ratio	Lower	Upper	
164	100		
166	125.1	100.6	151.0
129	111.0	82.9	124.3
131	108.6	79.2	118.8





#53

Toluene

Concen: 19.71 ppbv

RT: 10.12 min Scan# 2809

Delta R.T. 0.00 min

Lab File: VL031275.D

Acq: 20 Dec 2017 18:06

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-1

Tot Ion: 91 Resp: 8327459

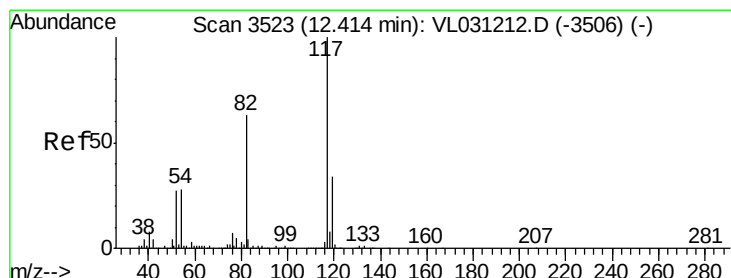
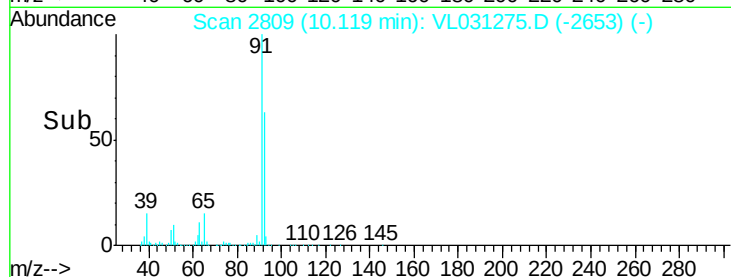
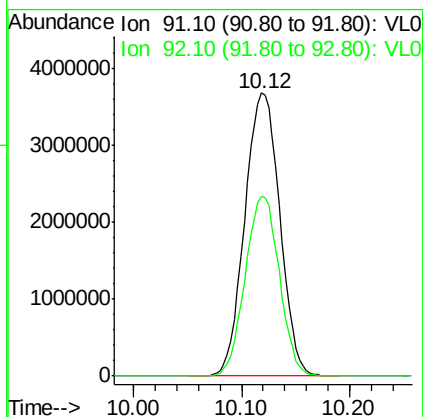
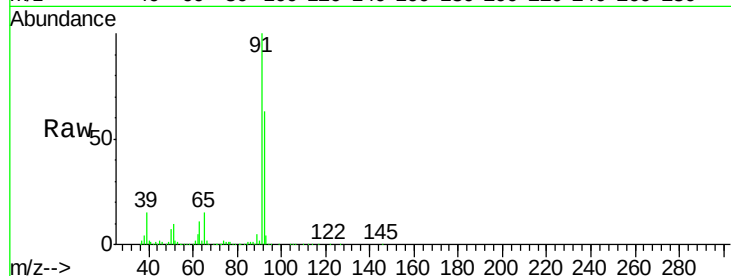
Ion Ratio Lower Upper

91 100

92 62.1 49.1 73.7

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.41 min Scan# 3523

Delta R.T. 0.00 min

Lab File: VL031275.D

Acq: 20 Dec 2017 18:06

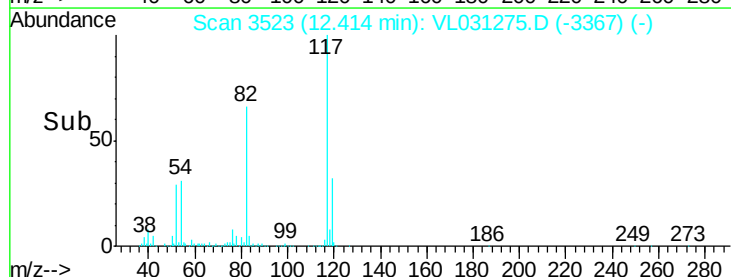
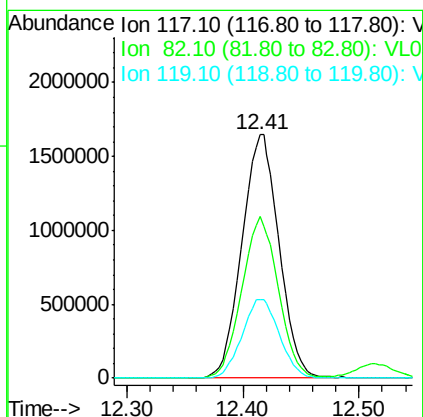
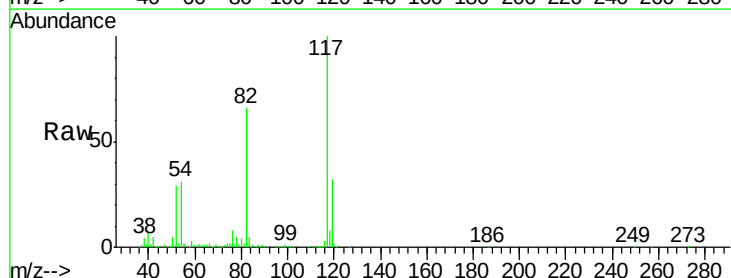
Tgt Ion: 117 Resp: 3672610

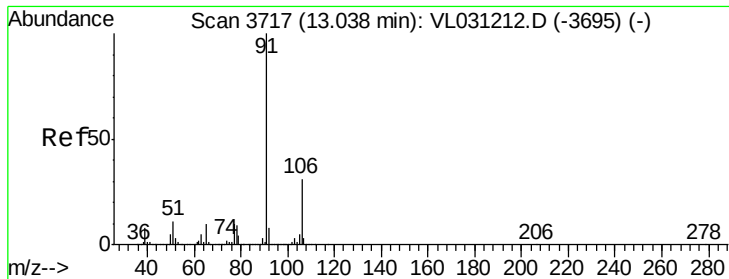
Ion Ratio Lower Upper

117 100

82 65.0 48.1 72.1

119 32.7 23.1 34.7





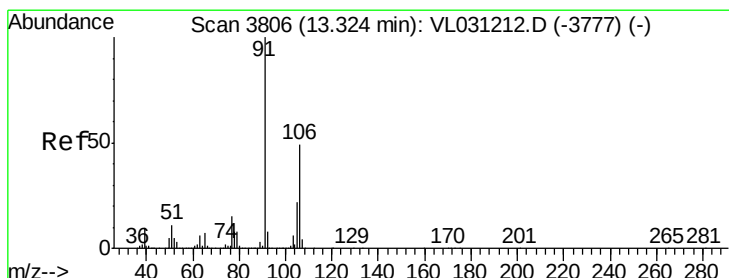
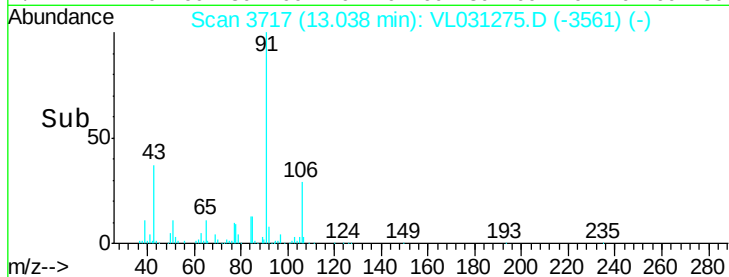
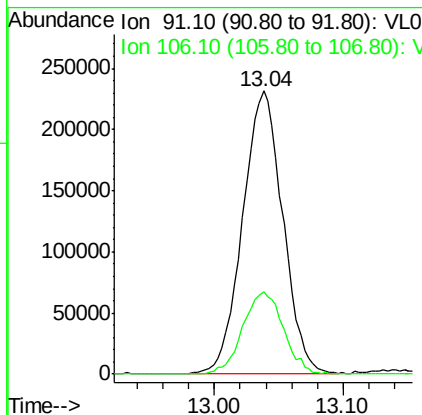
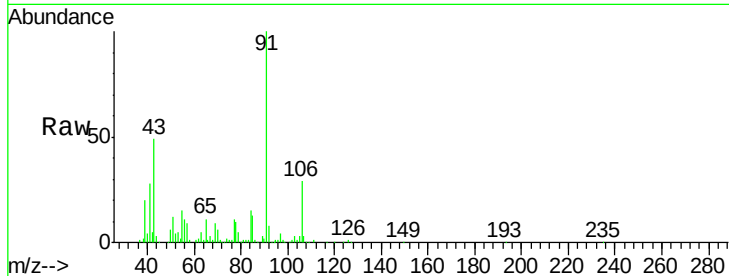
#58
Ethyl Benzene
Concen: 0.82 ppbv
RT: 13.04 min Scan# 3717
Delta R.T. 0.00 min
Lab File: VL031275.D
Acq: 20 Dec 2017 18:06

Instrument :
MSVOA_L
ClientSampled :
EP1-SV-1

Tot Ion: 91 Resp: 499376
Ion Ratio Lower Upper
91 100
106 29.4 25.1 37.7

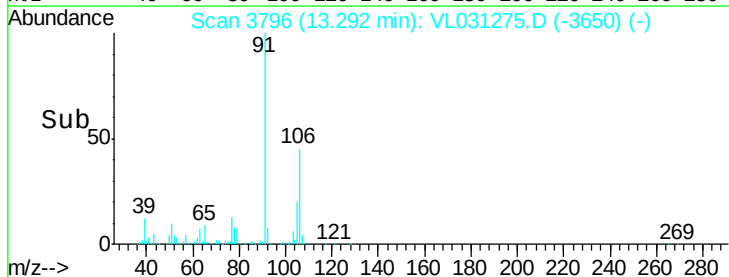
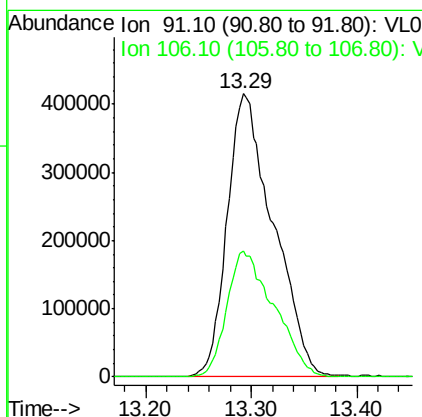
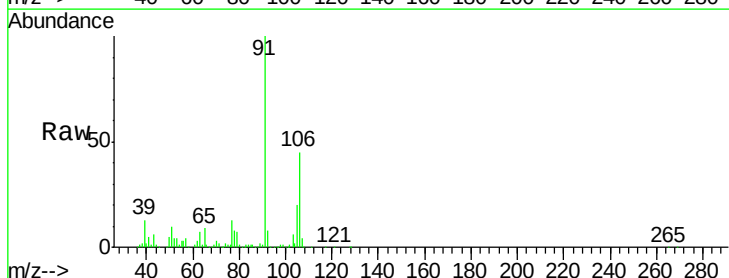
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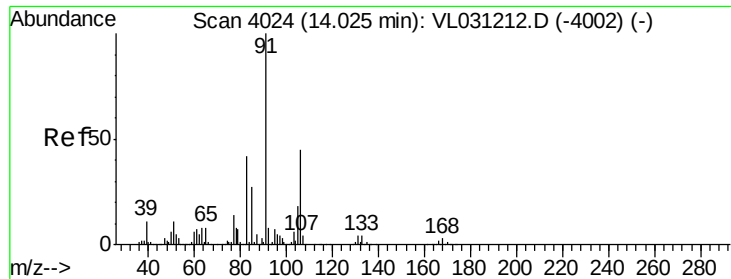
MMDadoda
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#59
m/p-Xylene
Concen: 2.57 ppbv
RT: 13.29 min Scan# 3796
Delta R.T. -0.03 min
Lab File: VL031275.D
Acq: 20 Dec 2017 18:06

Tgt Ion: 91 Resp: 1248533
Ion Ratio Lower Upper
91 100
106 45.9 38.5 57.7





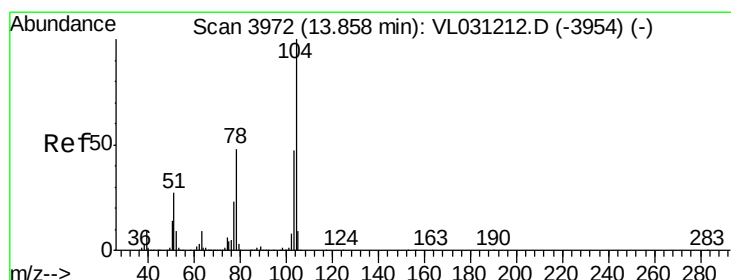
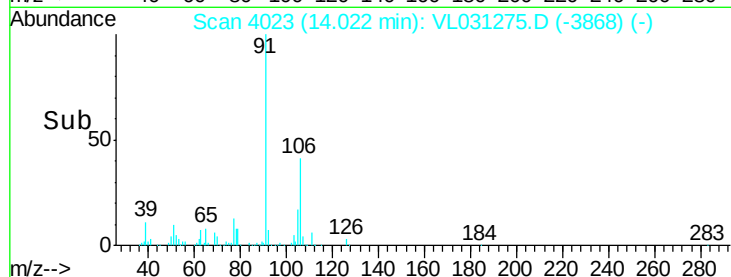
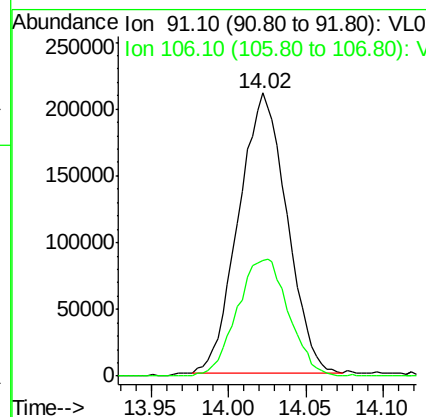
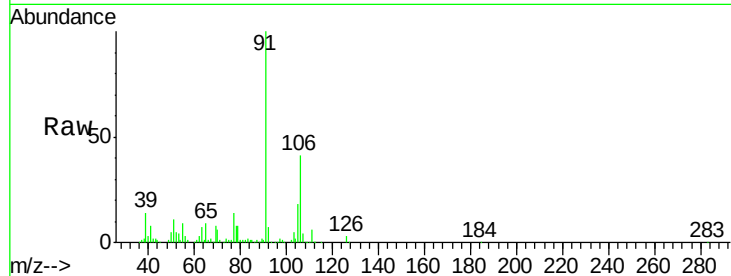
#60
o-Xylene
Concen: 0.94 ppbv
RT: 14.02 min Scan# 4023
Delta R.T. -0.00 min
Lab File: VL031275.D
Acq: 20 Dec 2017 18:06

Instrument :
MSVOA_L
ClientSampled :
EP1-SV-1

Tot Ion: 91 Resp: 458279
Ion Ratio Lower Upper
91 100
106 44.4 22.7 68.1

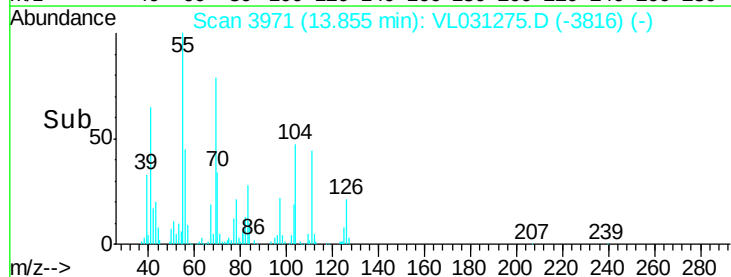
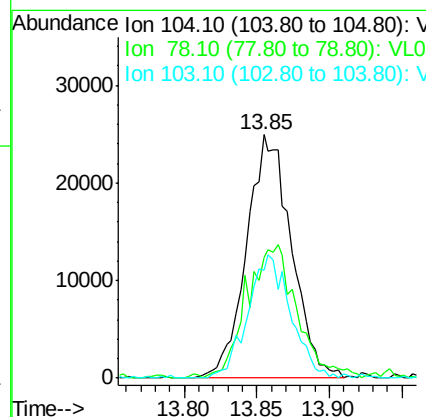
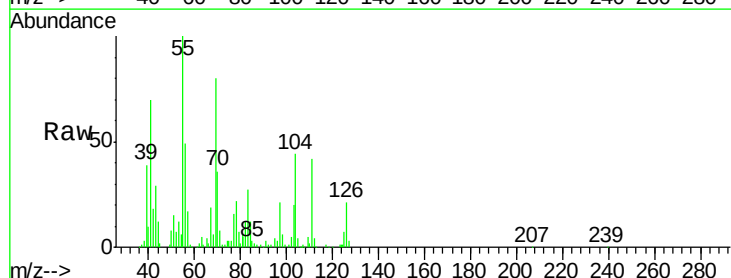
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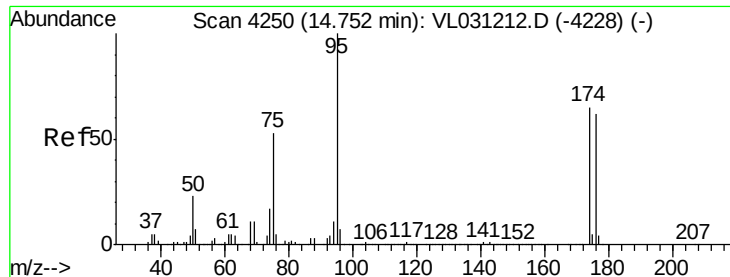
MMDadoda
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#61
Styrene
Concen: 0.38 ppbv m
RT: 13.85 min Scan# 3971
Delta R.T. -0.00 min
Lab File: VL031275.D
Acq: 20 Dec 2017 18:06

Tgt Ion: 104 Resp: 53403
Ion Ratio Lower Upper
104 100
78 63.4 39.1 58.7#
103 48.7 37.3 55.9





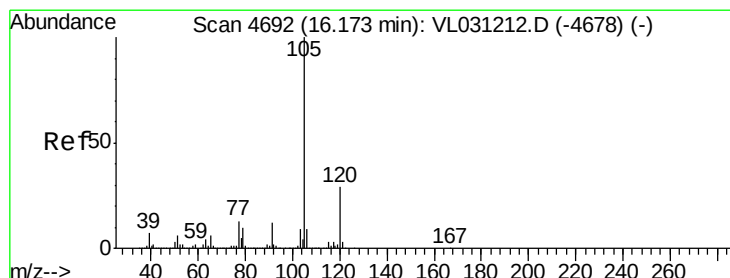
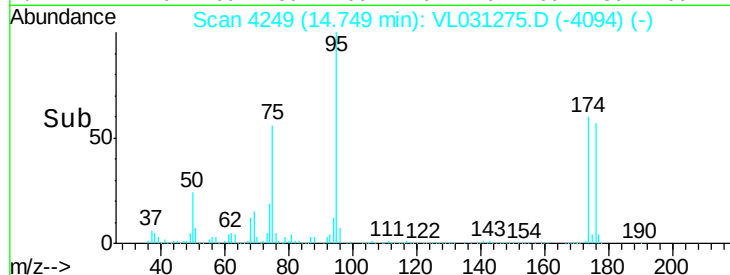
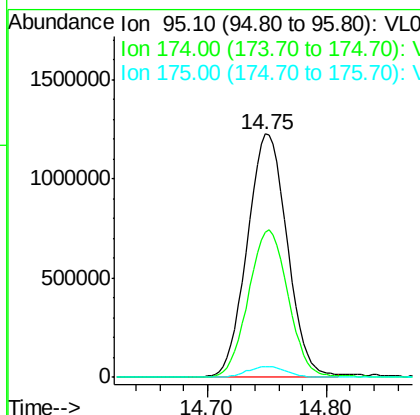
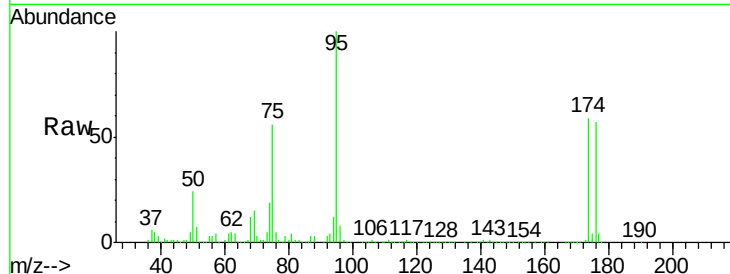
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.93 ppbv
 RT: 14.75 min Scan# 4249
 Delta R.T. -0.00 min
 Lab File: VL031275.D
 Acq: 20 Dec 2017 18:06

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-1

Tot Ion: 95 Resp: 2854283
 Ion Ratio Lower Upper
 95 100
 174 60.6 52.5 78.7
 175 4.5 4.1 6.1

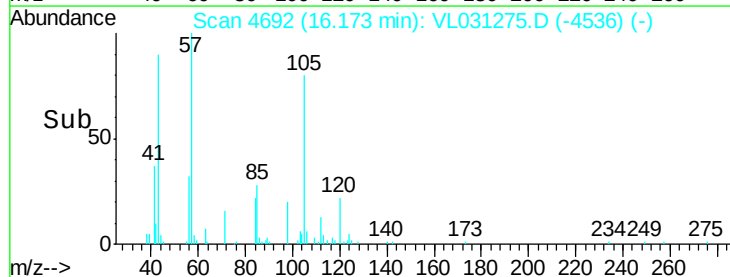
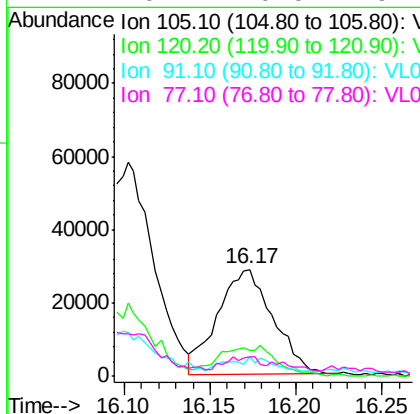
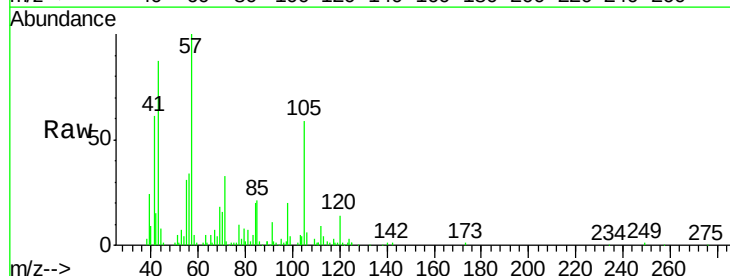
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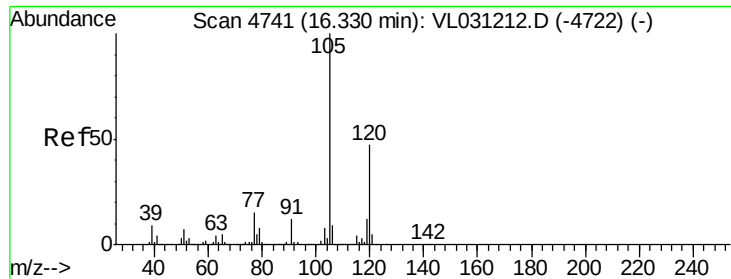
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#72
 4-Ethyltoluene
 Concen: 0.12 ppbv
 RT: 16.17 min Scan# 4692
 Delta R.T. 0.00 min
 Lab File: VL031275.D
 Acq: 20 Dec 2017 18:06

Tgt Ion: 105 Resp: 64323
 Ion Ratio Lower Upper
 105 100
 120 30.9 24.2 36.2
 91 19.1 9.8 14.8#
 77 16.1 10.5 15.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.13 ppbv m

RT: 16.33 min Scan# 4741

Delta R.T. 0.00 min

Lab File: VL031275.D

Acq: 20 Dec 2017 18:06

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-1

Tot Ion:105 Resp: 62235

Ion Ratio Lower Upper

105 100

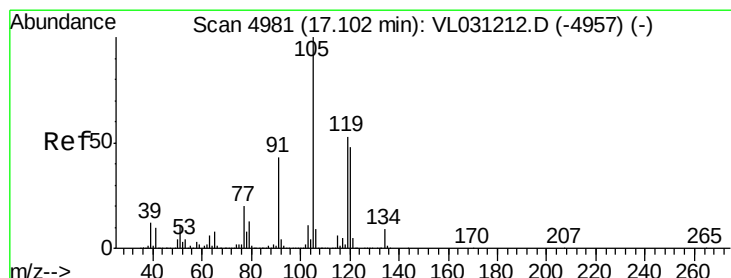
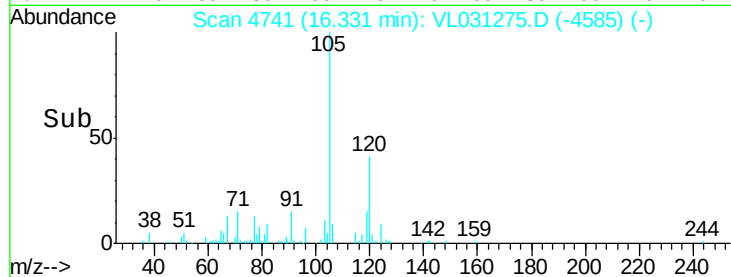
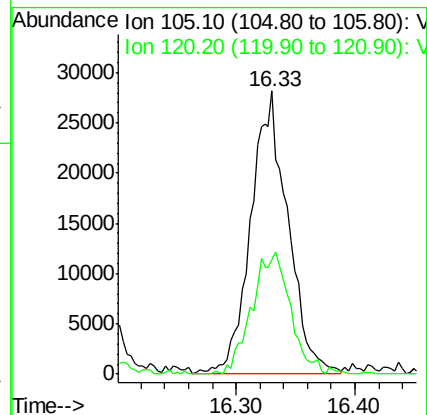
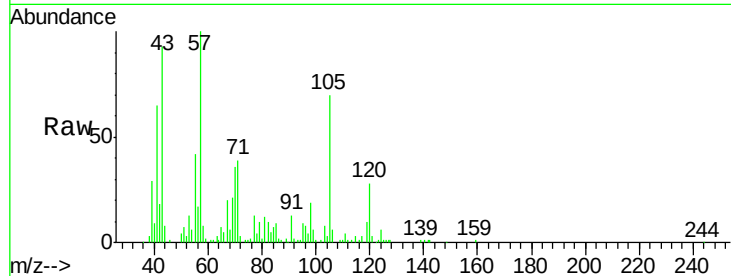
120 40.3 37.8 56.6

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 0.31 ppbv m

RT: 17.09 min Scan# 4978

Delta R.T. -0.01 min

Lab File: VL031275.D

Acq: 20 Dec 2017 18:06

Tgt Ion:105 Resp: 156873

Ion Ratio Lower Upper

105 100

120 39.6 38.6 58.0

91 16.6 34.2 51.4#

77 16.1 16.1 24.1#

