

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032270.D
 Acq On : 18 Jul 2018 21:09
 Operator : SY/AP
 Sample : J3454-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-1

Manual Integrations
 APPROVED

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 7/20/2018 2:53:13 PM

Quant Time: Jul 20 14:01:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 2018
 QLast Update : Wed Jul 18 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1662087	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3628899	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4013103	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	3209817	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	152004	0.54	ppbv	96
3) Chlorodifluoromethane	3.06	51	218095m	1.17	ppbv	
4) Chloromethane	3.22	50	58885	0.54	ppbv	95
9) Propene	3.10	41	53760m	0.66	ppbv	
10) Heptane	8.33	43	70617	0.27	ppbv	97
11) Trichlorofluoromethane	4.07	101	62631	0.28	ppbv	92
13) Ethanol	3.72	45	1435235	61.62	ppbv	97
15) Acetone	3.96	43	1770416	10.18	ppbv	97
19) Isopropyl Alcohol	4.10	45	317945	2.70	ppbv #	1
20) Methylene Chloride	4.47	84	445075	6.65	ppbv	96
26) Hexane	5.85	57	2385705	13.71	ppbv #	44
34) 2-Butanone	5.40	43	193495	0.78	ppbv	98
35) Carbon Tetrachloride	7.22	117	18813	0.08	ppbv #	84
36) Benzene	7.09	78	64862	0.18	ppbv #	91
44) 2,2,4-Trimethylpentane	8.08	57	95560	0.15	ppbv #	75
52) Tetrachloroethene	11.46	164	15824m	0.13	ppbv	
53) Toluene	10.03	91	271804	0.63	ppbv	98
58) Ethyl Benzene	12.95	91	72784	0.13	ppbv	92
59) m/p-Xylene	13.21	91	258149m	0.54	ppbv	
60) o-Xylene	13.94	91	104390	0.22	ppbv	97
73) 1,3,5-Trimethylbenzene	16.24	105	60085m	0.11	ppbv	
74) 1,2,4-Trimethylbenzene	17.02	105	176932	0.31	ppbv #	71
76) 1,4-Dichlorobenzene	17.40	146	117642	0.38	ppbv	98

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

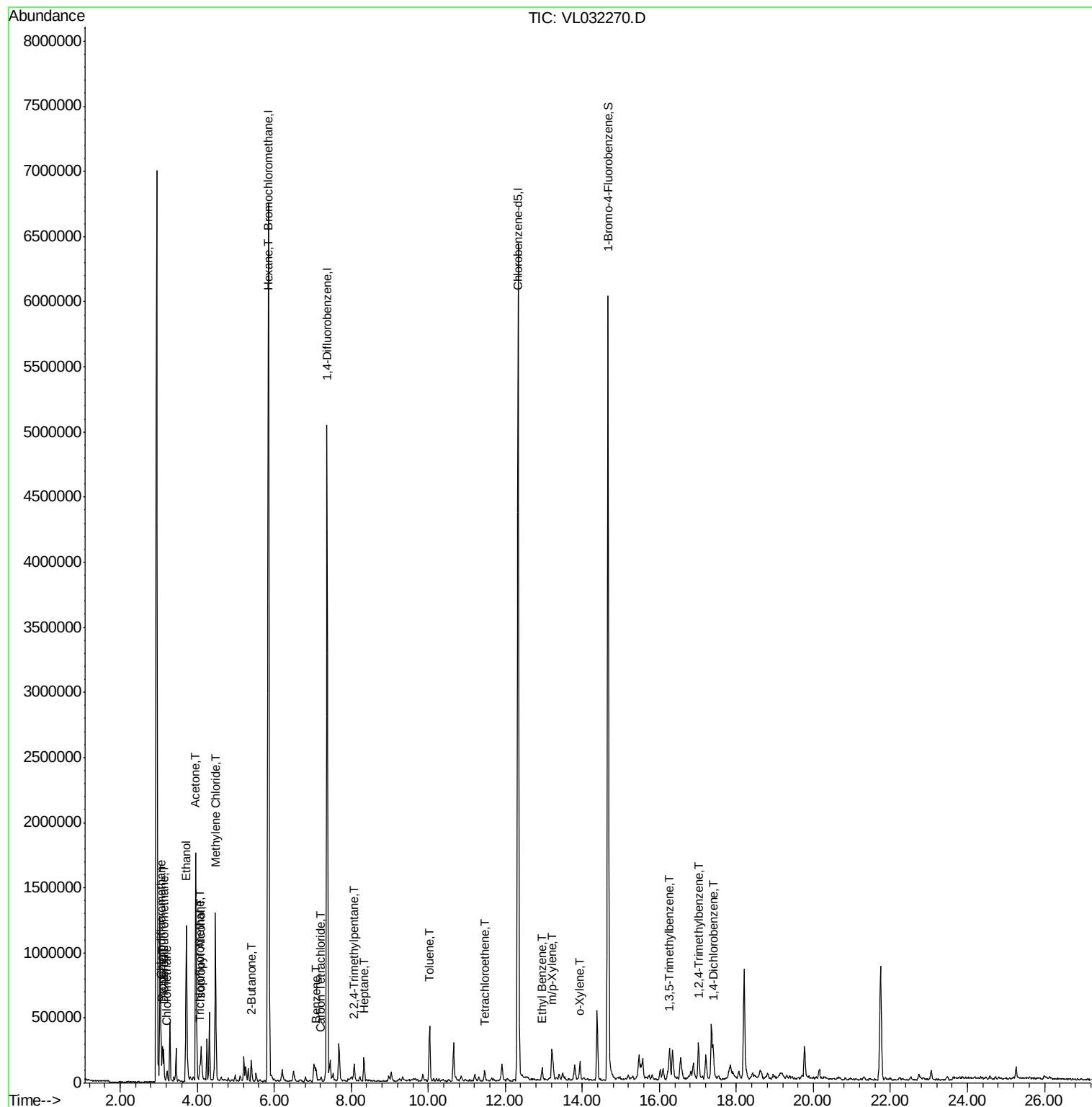
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071818\
Data File : VL032270.D
Acq On : 18 Jul 2018 21:09
Operator : SY/AP
Sample : J3454-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

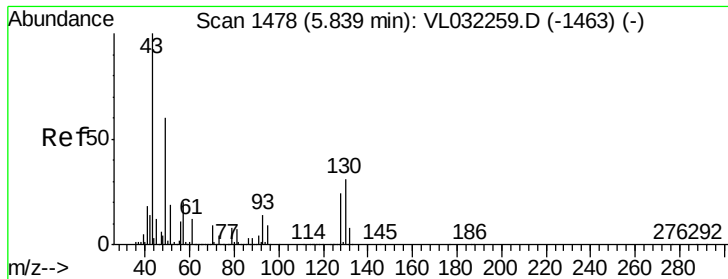
Instrument :
MSVOA_L
ClientSampleId :
B-1

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7/20/2018 2:53:13 PM

Quant Time: Jul 20 14:01:08 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VL032270.D

Acq: 18 Jul 2018 21:09

Instrument :

MSVOA_L

ClientSampled :

B-1

Tot Ion: 49 Resp: 1662087

Ion Ratio Lower Upper

49 100

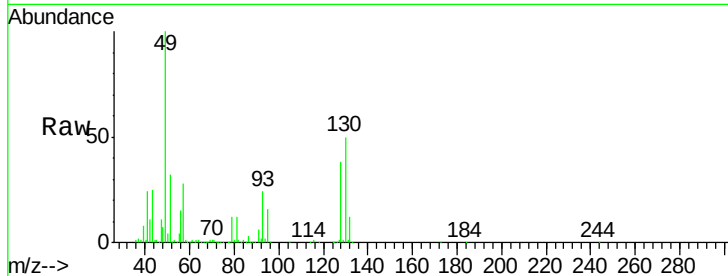
128 40.1 20.1 60.2

130 50.3 25.9 77.6

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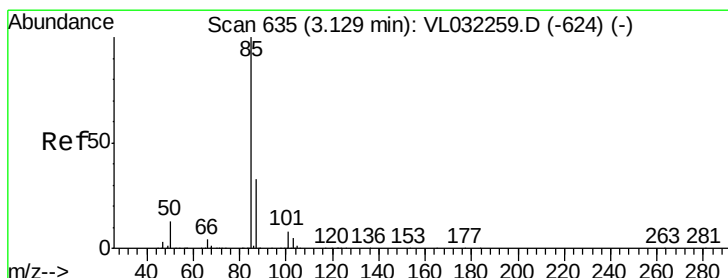
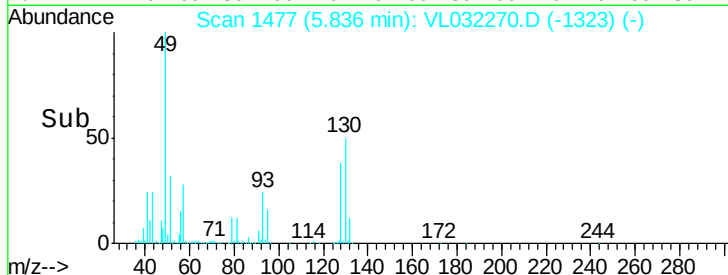
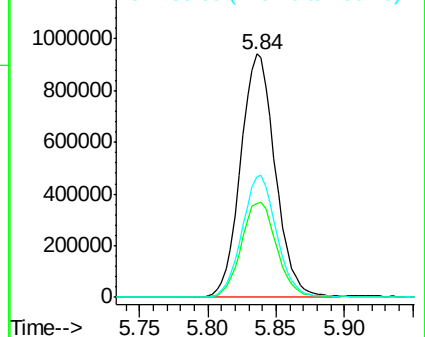
7/20/2018 2:53:13 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.54 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032270.D

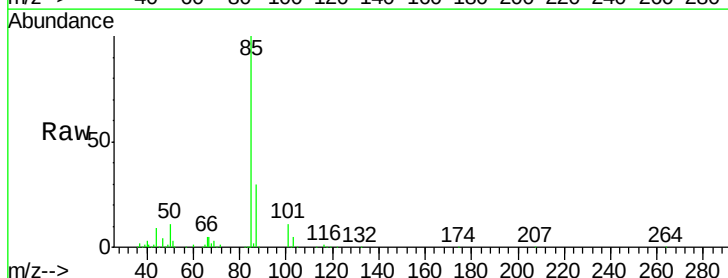
Acq: 18 Jul 2018 21:09

Tgt Ion: 85 Resp: 152004

Ion Ratio Lower Upper

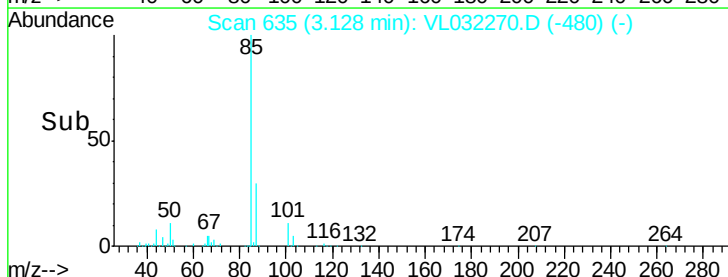
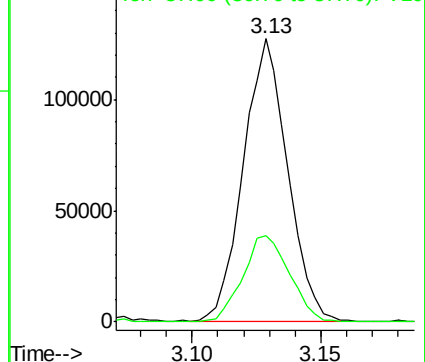
85 100

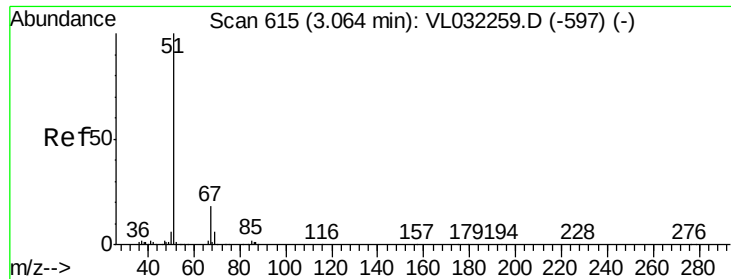
87 30.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.17 ppbv m

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032270.D

Acq: 18 Jul 2018 21:09

Instrument :

MSVOA_L

ClientSampled :

B-1

Tot Ion: 51 Resp: 218095

Ion Ratio Lower Upper

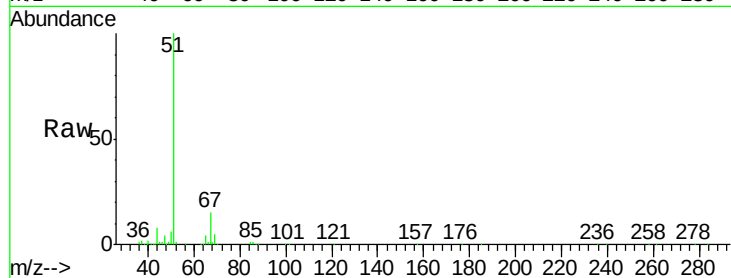
51 100

67 19.4 14.2 21.4

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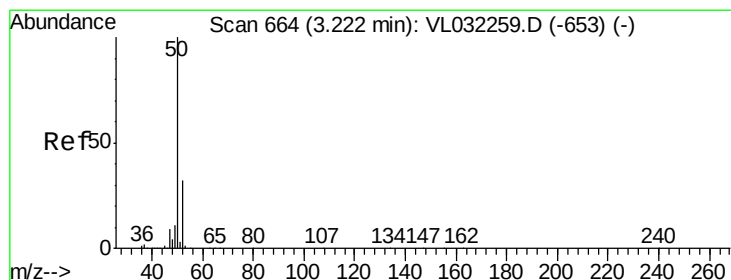
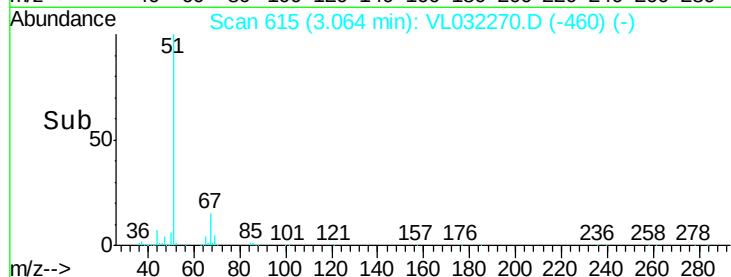
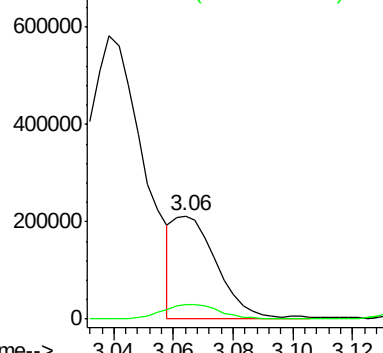
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.54 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032270.D

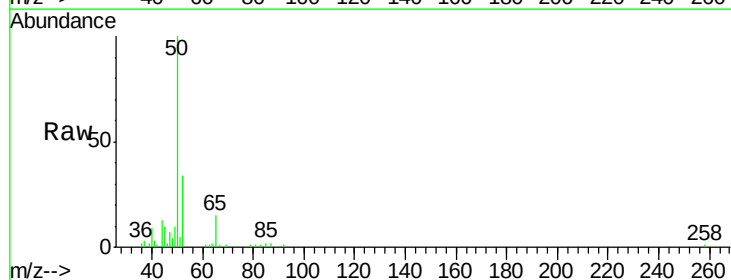
Acq: 18 Jul 2018 21:09

Tgt Ion: 50 Resp: 58885

Ion Ratio Lower Upper

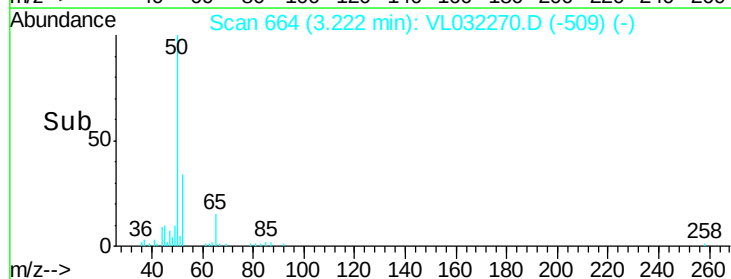
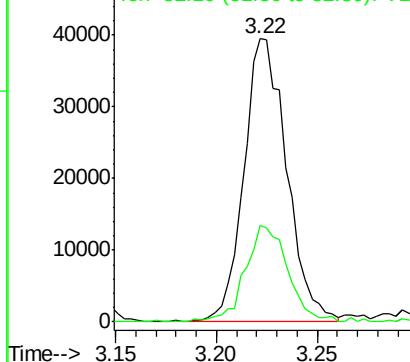
50 100

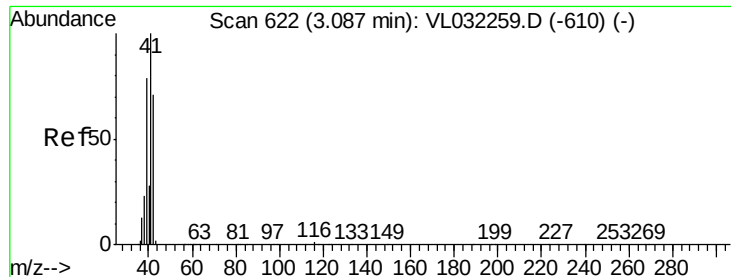
52 34.2 25.3 37.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

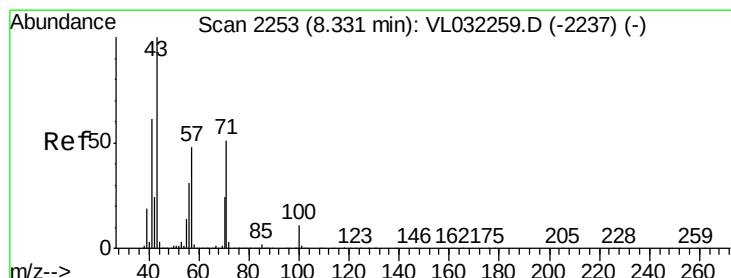
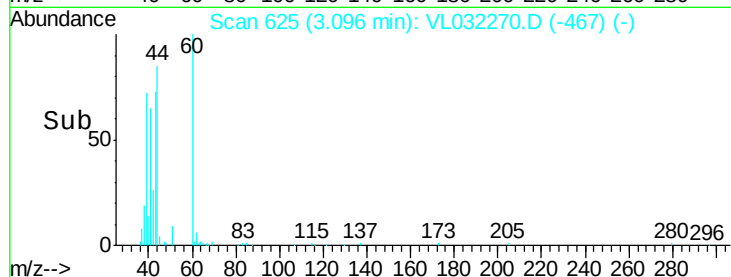
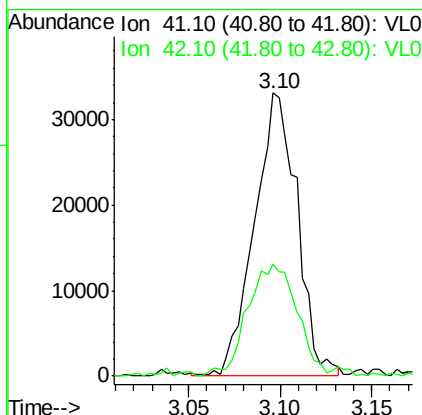
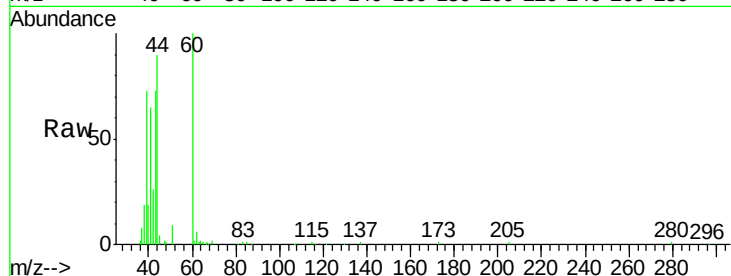
Concen: 0.66 ppbv m
RT: 3.10 min Scan# 625
Delta R.T. 0.01 min
Lab File: VL032270.D
Acq: 18 Jul 2018 21:09

Instrument :
MSVOA_L
ClientSampled :
B-1

Tot Ion: 41 Resp: 53760
Ion Ratio Lower Upper
41 100
42 0.0 56.2 84.4#

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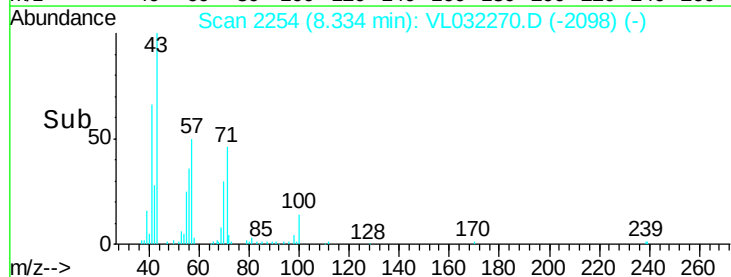
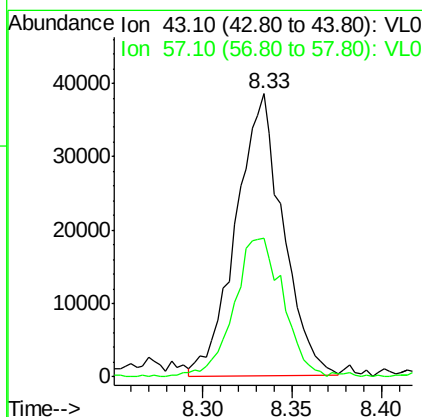
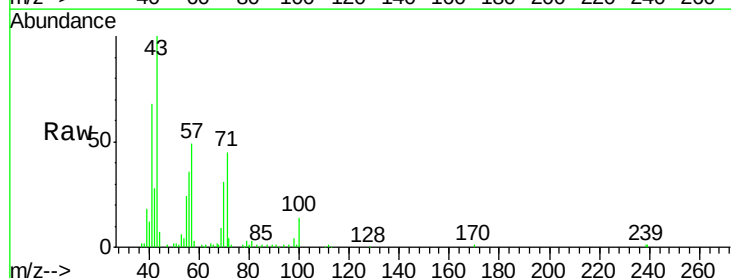


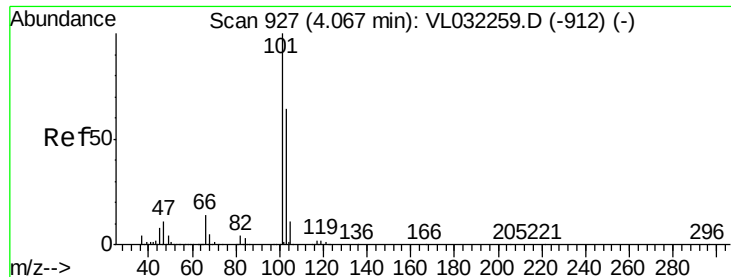
#10

Heptane

Concen: 0.27 ppbv
RT: 8.33 min Scan# 2254
Delta R.T. 0.00 min
Lab File: VL032270.D
Acq: 18 Jul 2018 21:09

Tgt Ion: 43 Resp: 70617
Ion Ratio Lower Upper
43 100
57 52.0 39.9 59.9





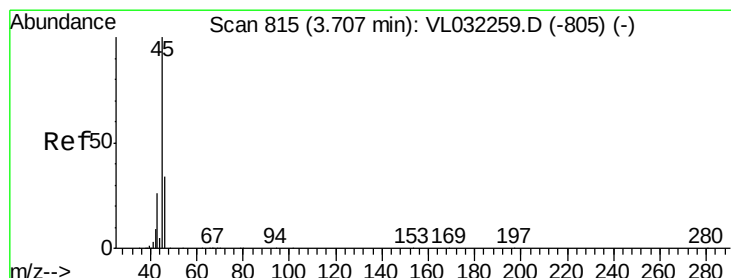
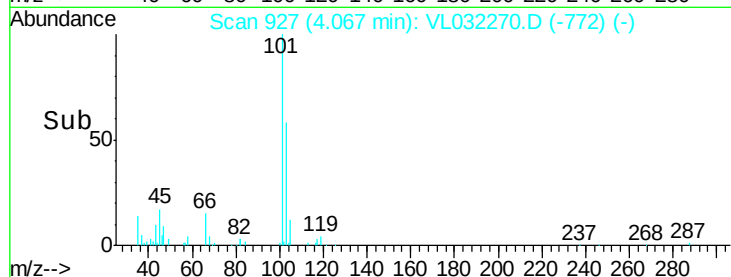
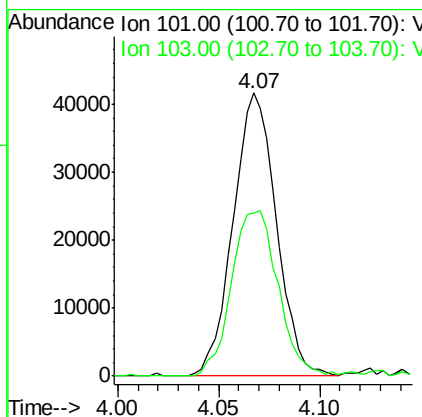
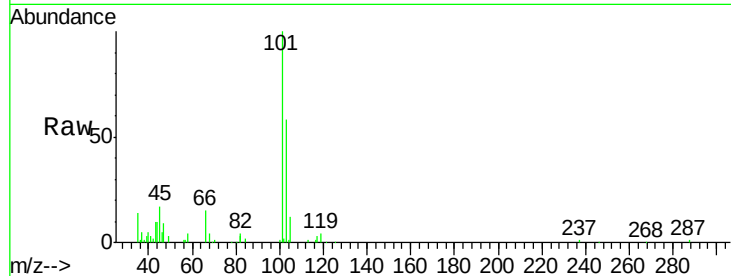
#11
 Trichlorofluoromethane
 Concen: 0.28 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: VL032270.D
 Acq: 18 Jul 2018 21:09

Instrument :
 MSVOA_L
 ClientSampleId :
 B-1

Tot Ion	Ratio	Lower	Upper
101	100		
103	57.8	51.5	77.3

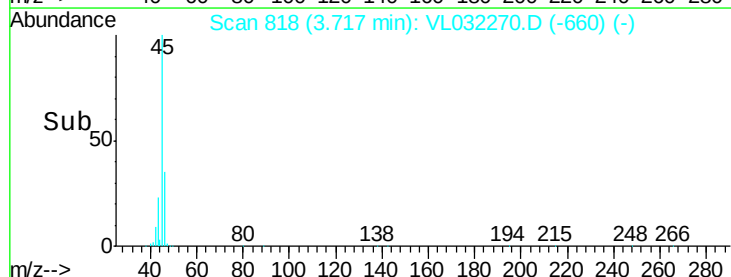
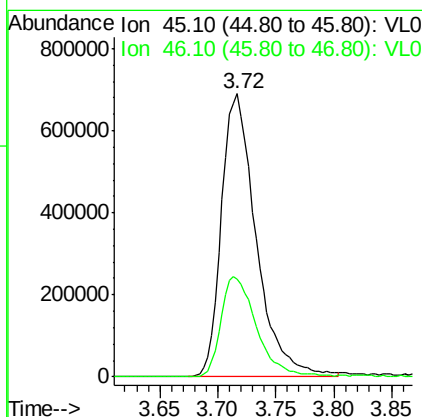
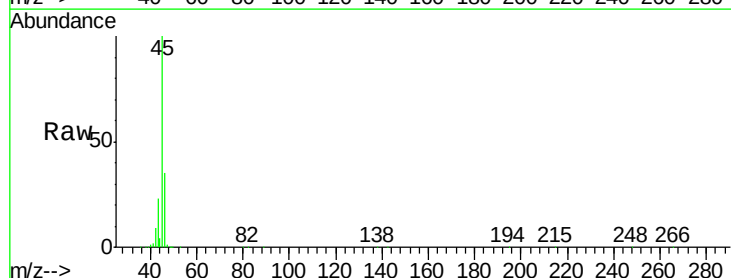
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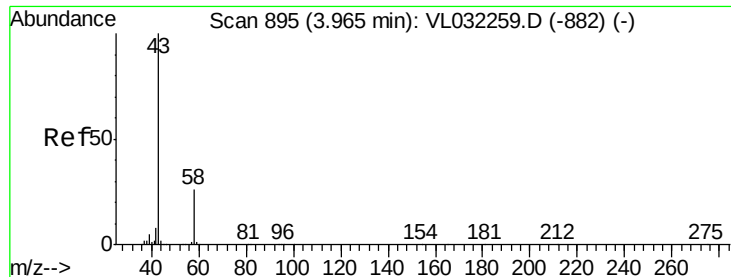
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#13
 Ethanol
 Concen: 61.62 ppbv
 RT: 3.72 min Scan# 818
 Delta R.T. 0.01 min
 Lab File: VL032270.D
 Acq: 18 Jul 2018 21:09

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.4	15.2	60.8





#15

Acetone

Concen: 10.18 ppbv

RT: 3.96 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL032270.D

Acq: 18 Jul 2018 21:09

Instrument :

MSVOA_L

ClientSampled :

B-1

Tot Ion: 43 Resp: 1770416

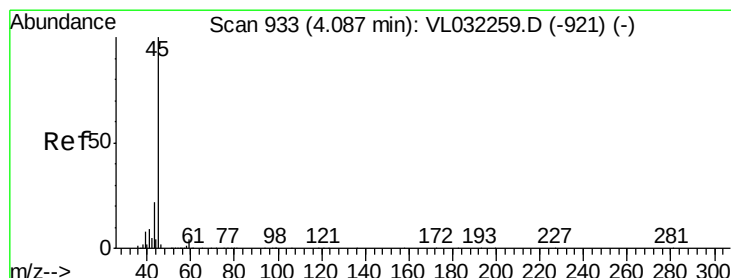
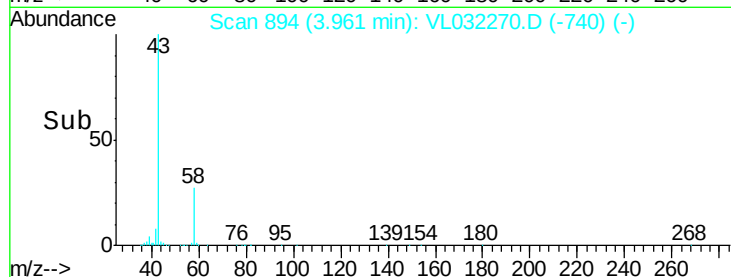
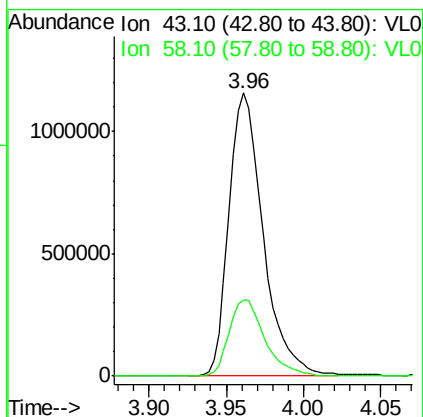
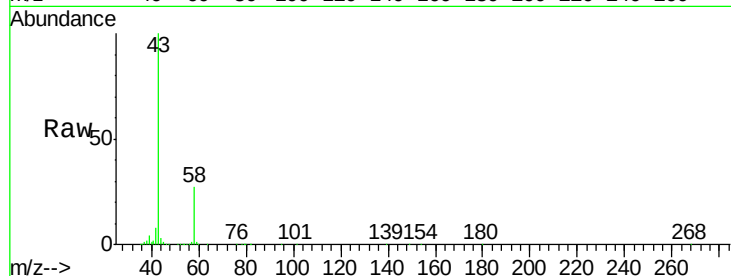
Ion Ratio Lower Upper

43 100

58 28.5 21.8 32.6

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 2.70 ppbv

RT: 4.10 min Scan# 937

Delta R.T. 0.01 min

Lab File: VL032270.D

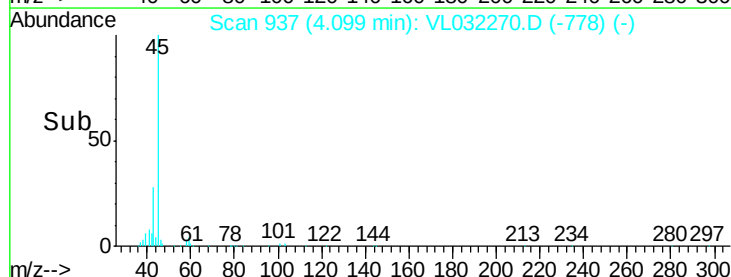
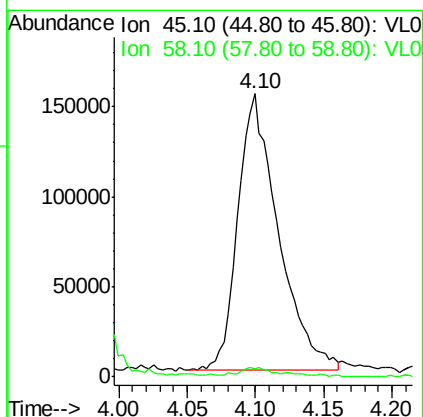
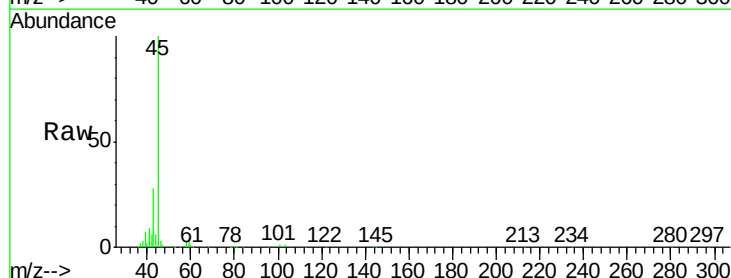
Acq: 18 Jul 2018 21:09

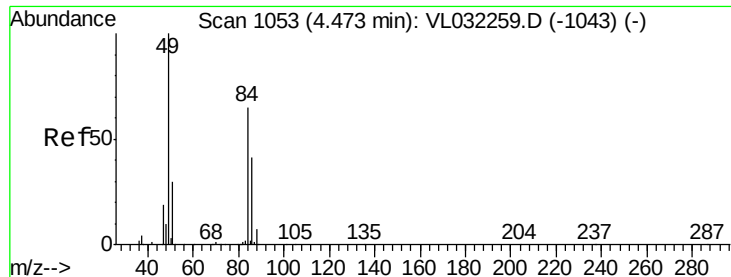
Tgt Ion: 45 Resp: 317945

Ion Ratio Lower Upper

45 100

58 158.8 1.5 2.3#





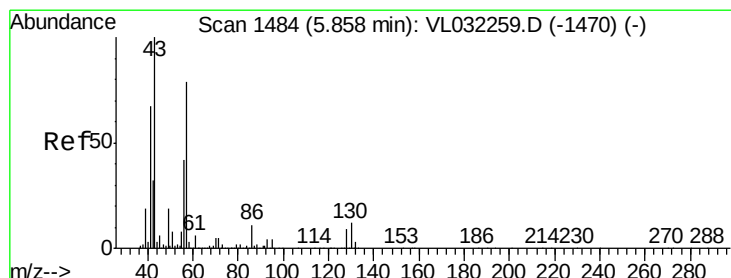
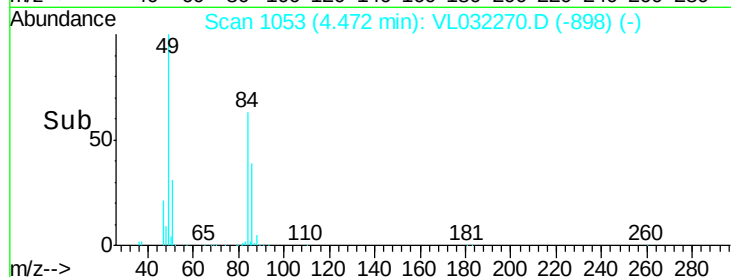
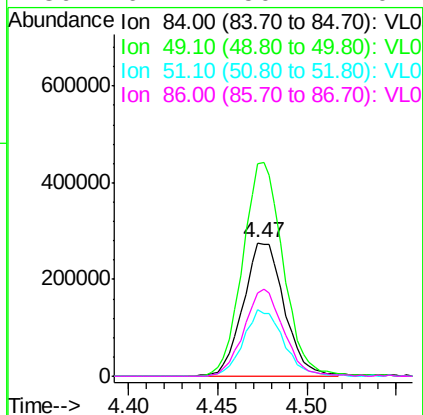
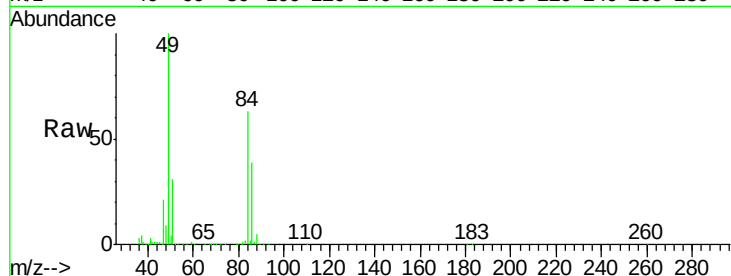
#20
Methvlene Chloride
Concen: 6.65 ppbv
RT: 4.47 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VL032270.D
Acq: 18 Jul 2018 21:09

Instrument :
MSVOA_L
ClientSampled :
B-1

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	159.0	122.4	183.6	
51	49.9	36.8	55.2	
86	62.2	50.7	76.1	

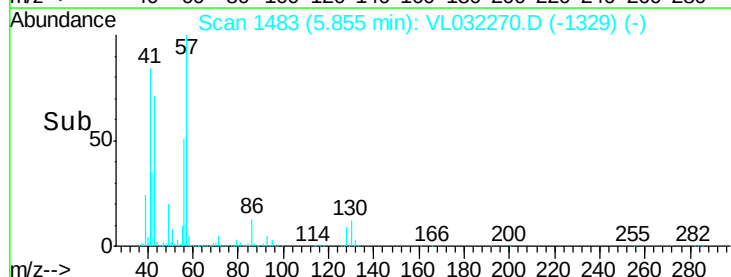
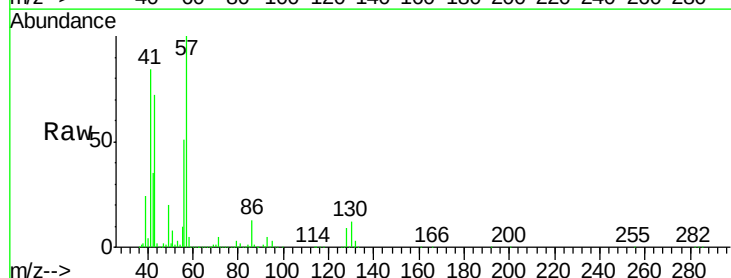
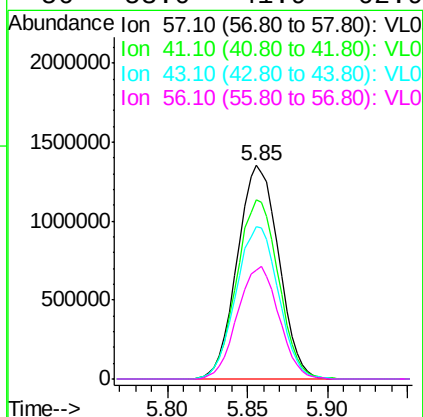
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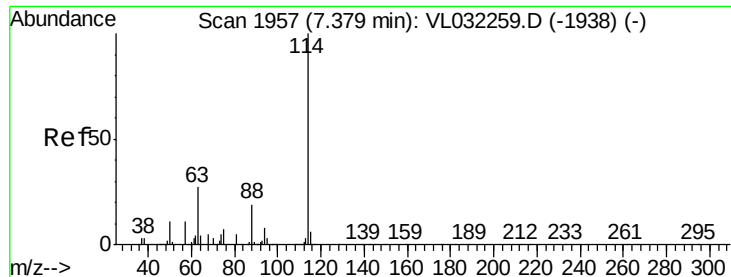
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#26
Hexane
Concen: 13.71 ppbv
RT: 5.85 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032270.D
Acq: 18 Jul 2018 21:09

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	84.7	67.9	101.9	
43	73.5	175.9	263.9	
56	53.0	41.9	62.9	





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.37 min Scan# 1955

Delta R.T. -0.01 min

Lab File: VL032270.D

Acq: 18 Jul 2018 21:09

Instrument :

MSVOA_L

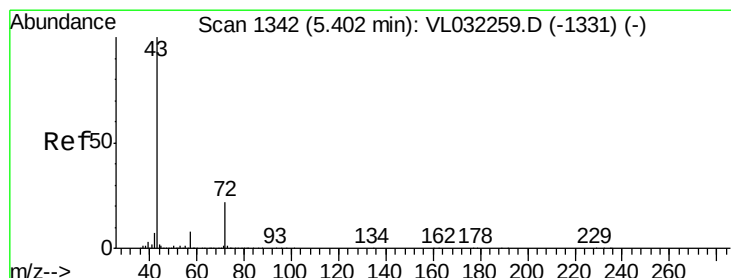
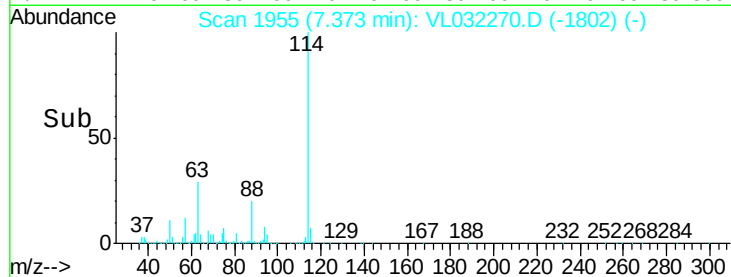
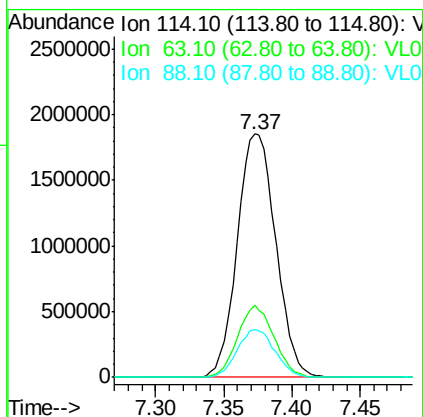
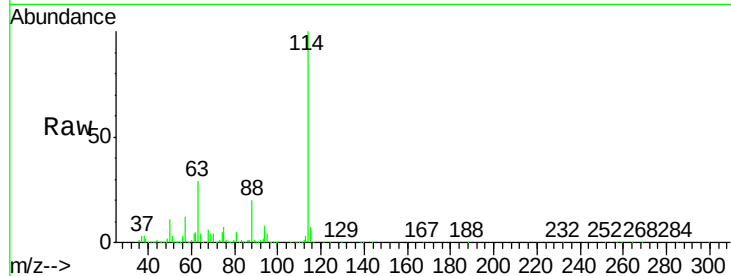
ClientSampled :

B-1

Tot Ion:	114	Resp:	3628899
Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.6	33.8
88	19.3	15.2	22.8

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#34

2-Butanone

Concen: 0.78 ppbv

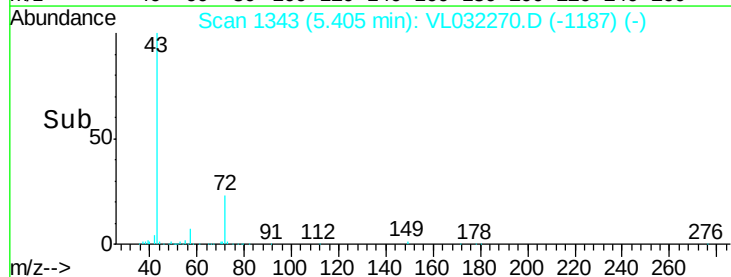
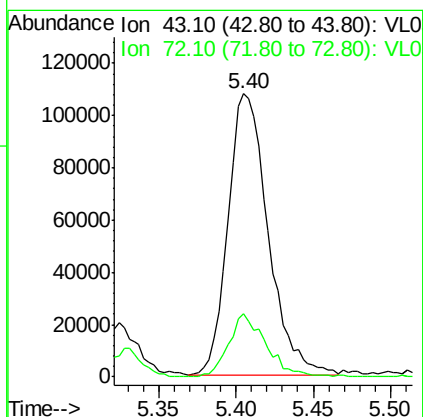
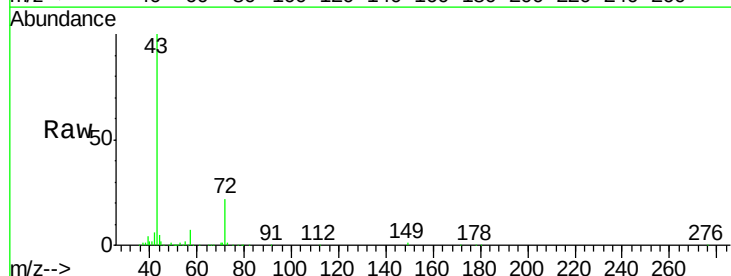
RT: 5.40 min Scan# 1343

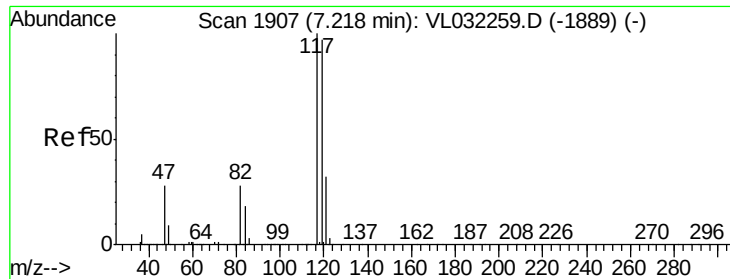
Delta R.T. 0.00 min

Lab File: VL032270.D

Acq: 18 Jul 2018 21:09

Tgt Ion:	43	Resp:	193495
Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.7	26.5





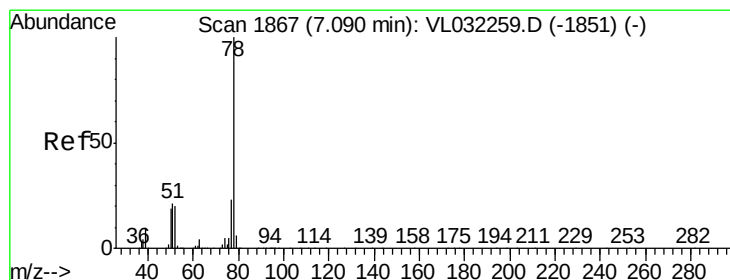
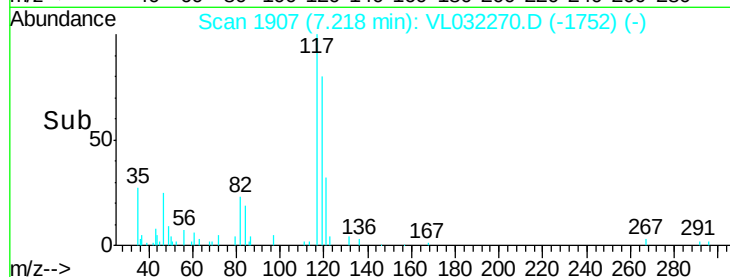
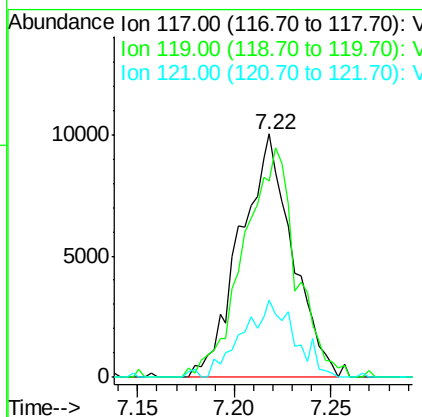
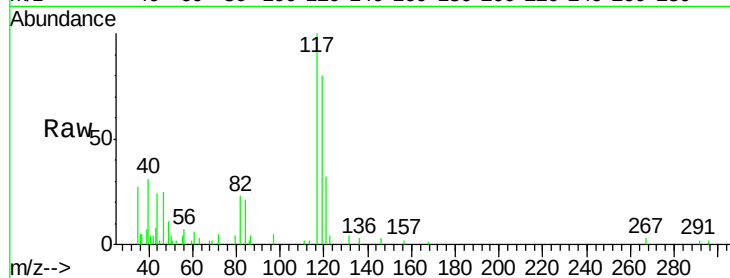
#35
Carbon Tetrachloride
Concen: 0.08 ppbv
RT: 7.22 min Scan# 1907
Delta R.T. -0.00 min
Lab File: VL032270.D
Acq: 18 Jul 2018 21:09

Instrument :
MSVOA_L
ClientSampled :
B-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	76.5	77.4	116.0#
121	31.9	25.4	38.2

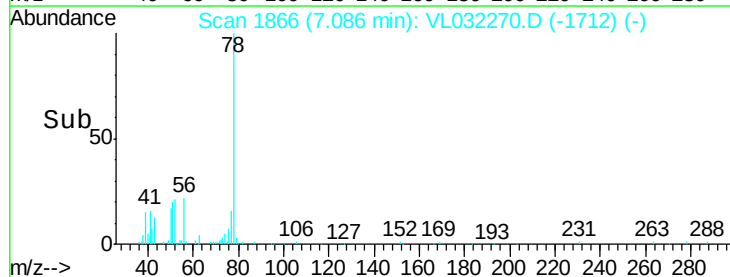
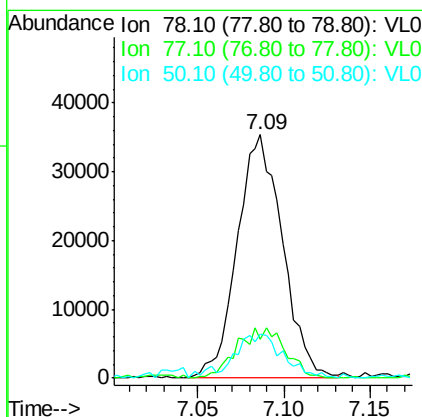
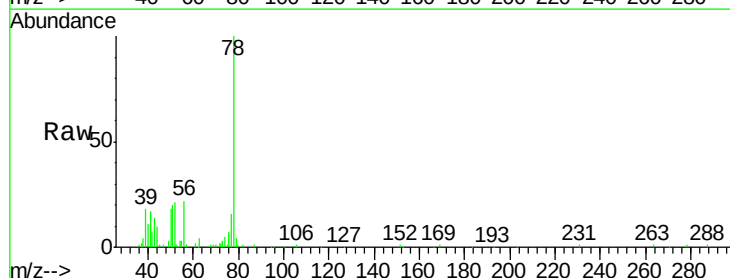
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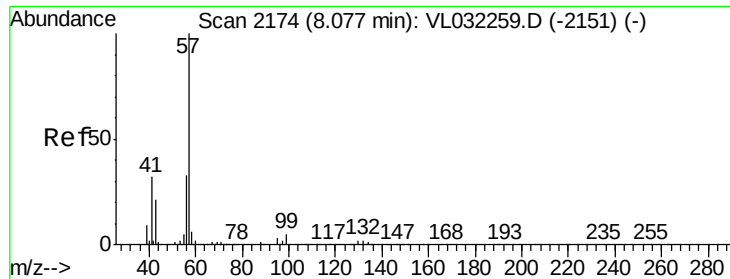
MMDadoda
7/20/2018 2:53:13 PM



#36
Benzene
Concen: 0.18 ppbv
RT: 7.09 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VL032270.D
Acq: 18 Jul 2018 21:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	15.7	18.6	27.8#
50	18.2	15.0	22.6





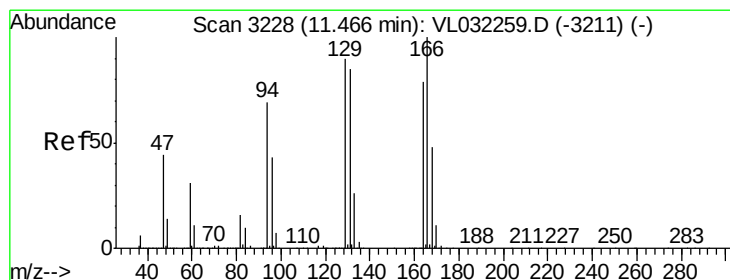
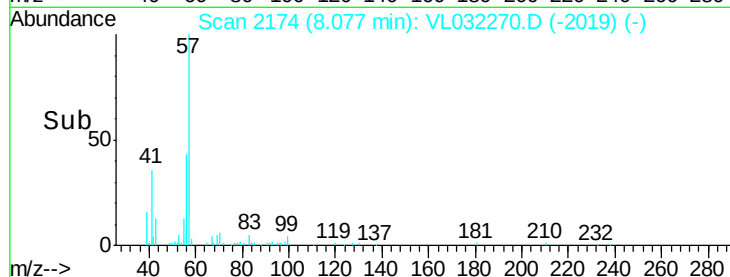
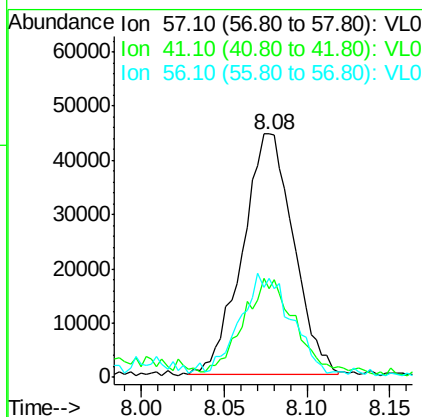
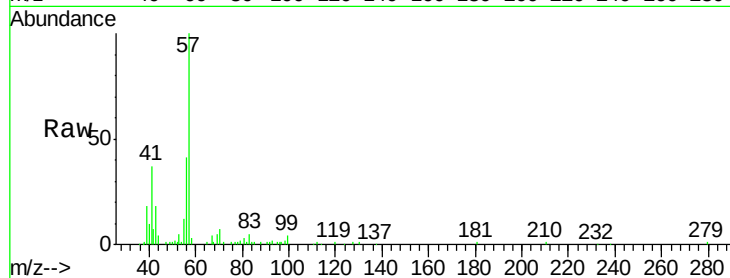
#44
2,2,4-Trimethylpentane
Concen: 0.15 ppbv
RT: 8.08 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VL032270.D
Acq: 18 Jul 2018 21:09

Instrument :
MSVOA_L
ClientSampled :
B-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	43.5	24.4	36.6#
56	46.6	25.7	38.5#

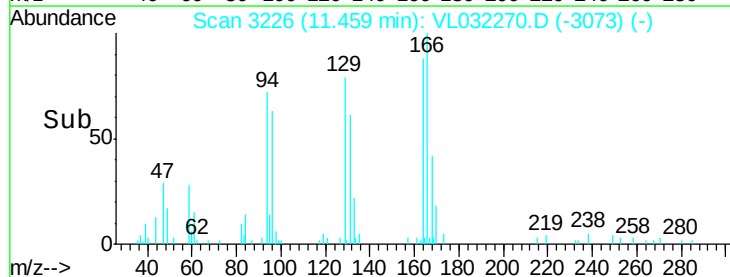
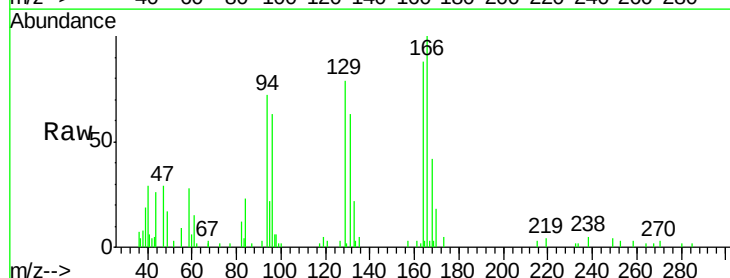
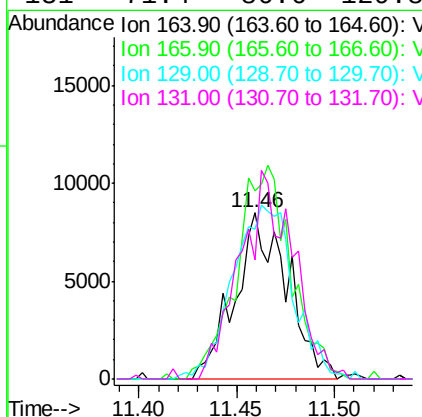
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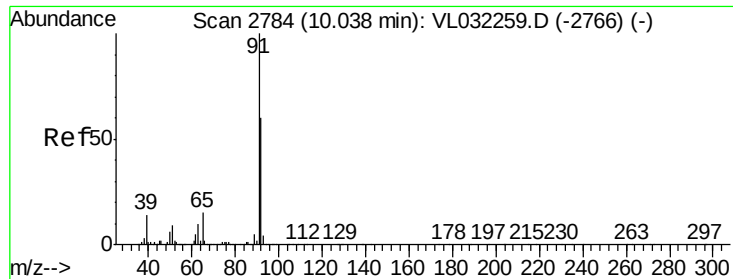
MMDadoda
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#52
Tetrachloroethene
Concen: 0.13 ppbv m
RT: 11.46 min Scan# 3226
Delta R.T. -0.01 min
Lab File: VL032270.D
Acq: 18 Jul 2018 21:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	113.7	101.7	152.5
129	89.9	91.5	137.3#
131	71.4	86.6	129.8#





#53

Toluene

Concen: 0.63 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. -0.01 min

Lab File: VL032270.D

Acq: 18 Jul 2018 21:09

Instrument :

MSVOA_L

ClientSampled :

B-1

Tot Ion: 91 Resp: 271804

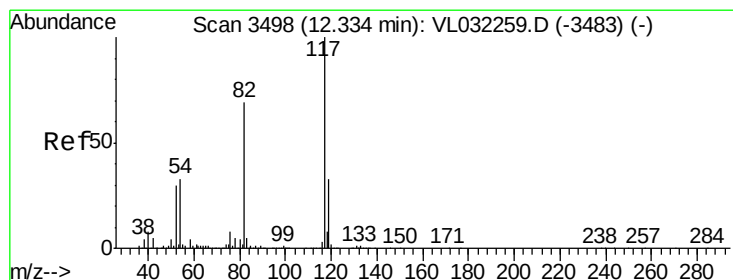
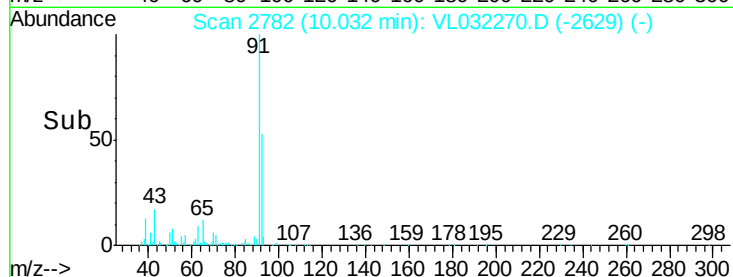
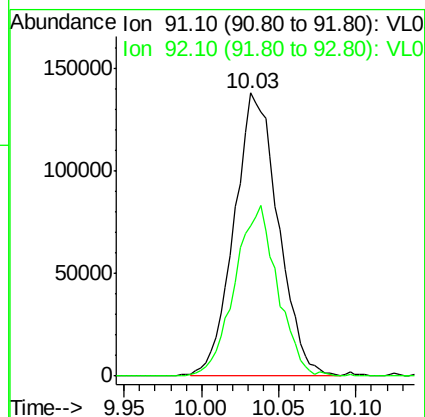
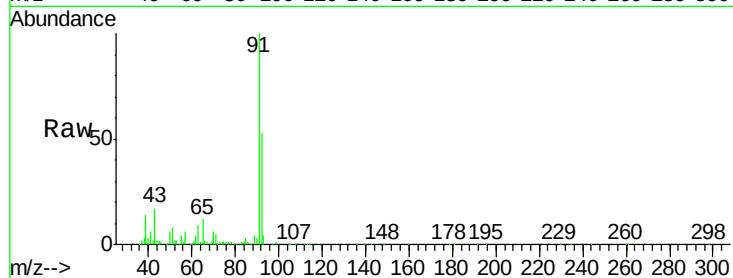
Ion Ratio Lower Upper

91 100

92 59.1 48.6 72.8

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.33 min Scan# 3497

Delta R.T. -0.00 min

Lab File: VL032270.D

Acq: 18 Jul 2018 21:09

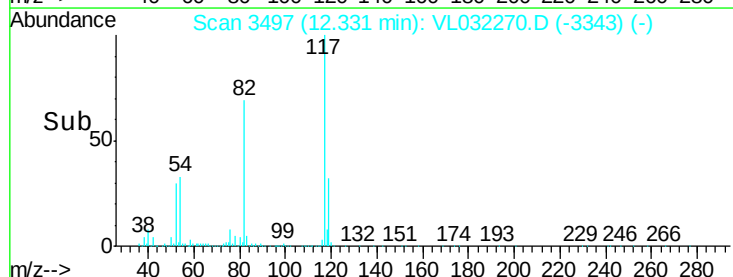
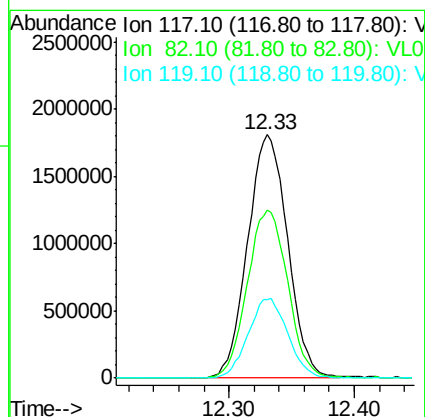
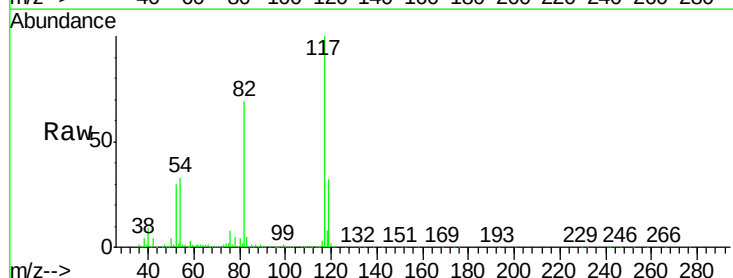
Tgt Ion: 117 Resp: 4013103

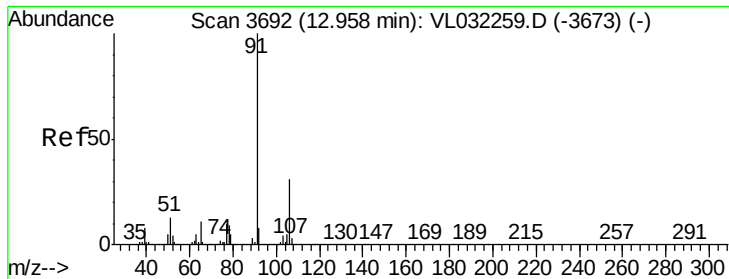
Ion Ratio Lower Upper

117 100

82 70.4 53.9 80.9

119 32.7 25.5 38.3





#58

Ethyl Benzene

Concen: 0.13 ppbv

RT: 12.95 min Scan# 3691

Delta R.T. -0.00 min

Lab File: VL032270.D

Acq: 18 Jul 2018 21:09

Instrument :

MSVOA_L

ClientSampleId :

B-1

Tot Ion: 91 Resp: 72784

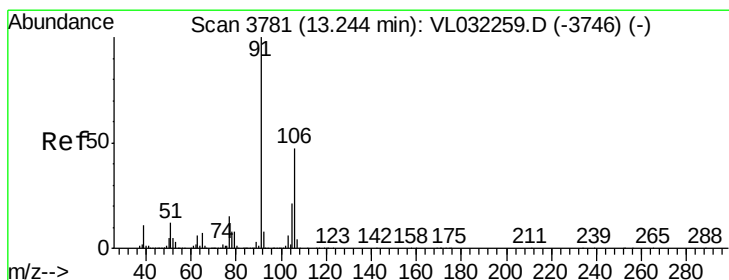
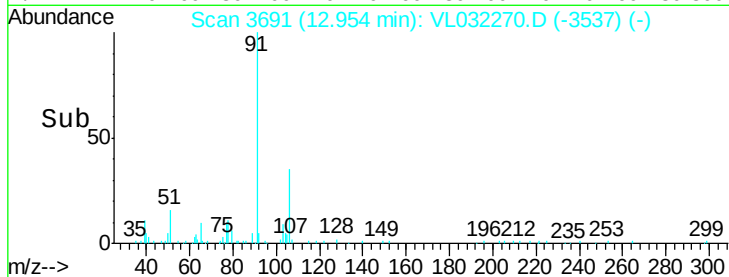
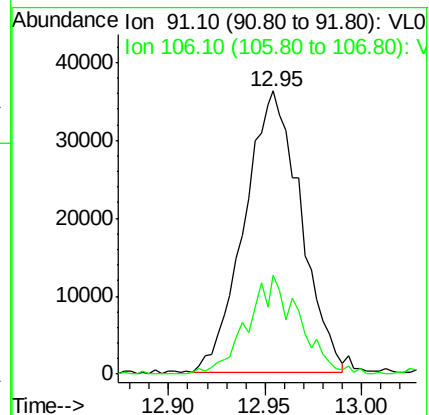
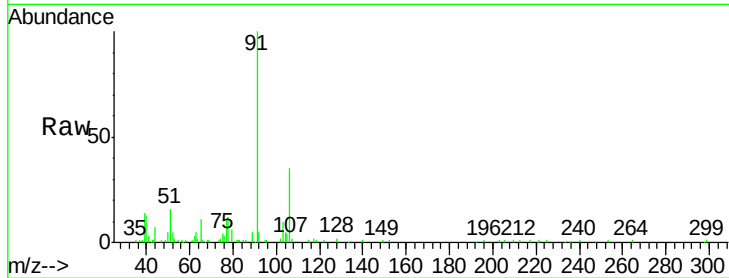
Ion Ratio Lower Upper

91 100

106 34.8 24.5 36.7

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#59

m/p-Xylene

Concen: 0.54 ppbv m

RT: 13.21 min Scan# 3771

Delta R.T. -0.03 min

Lab File: VL032270.D

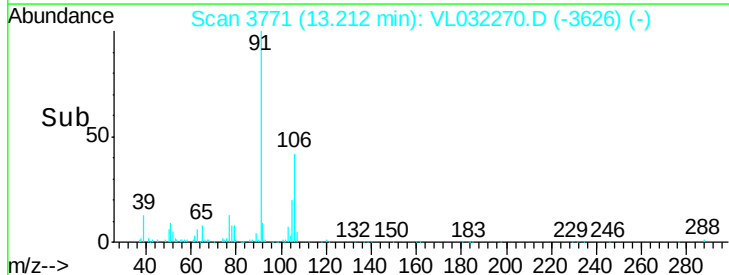
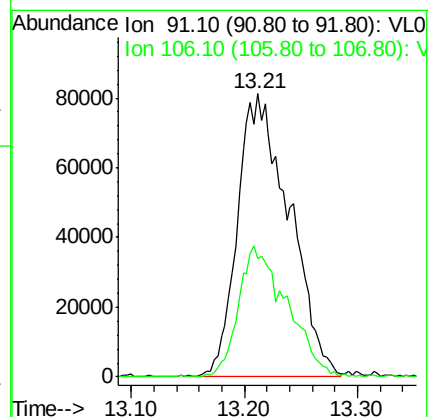
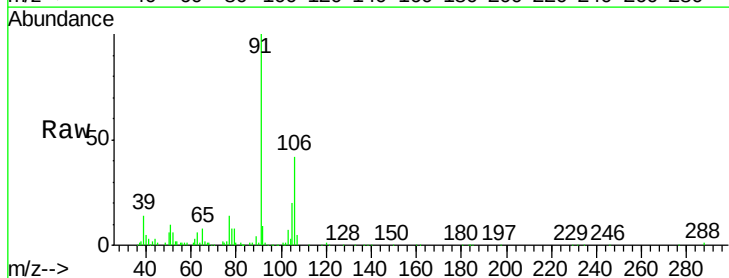
Acq: 18 Jul 2018 21:09

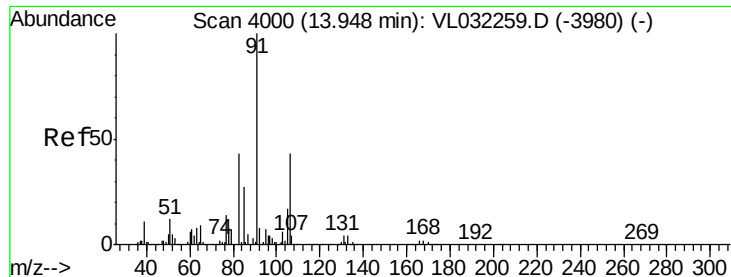
Tgt Ion: 91 Resp: 258149

Ion Ratio Lower Upper

91 100

106 0.0 36.2 54.2#





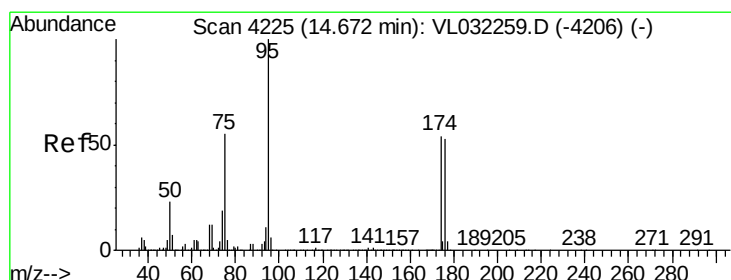
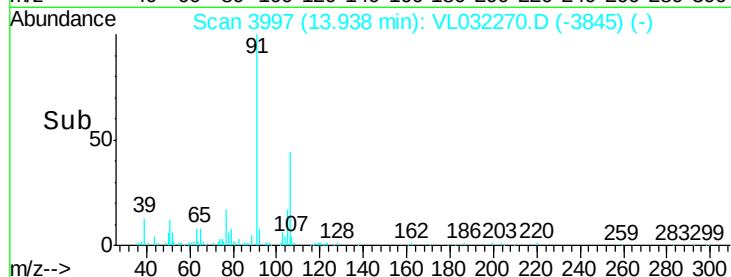
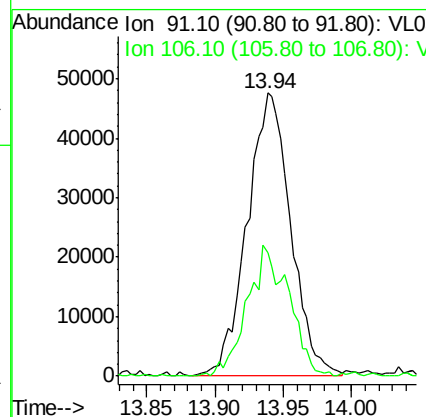
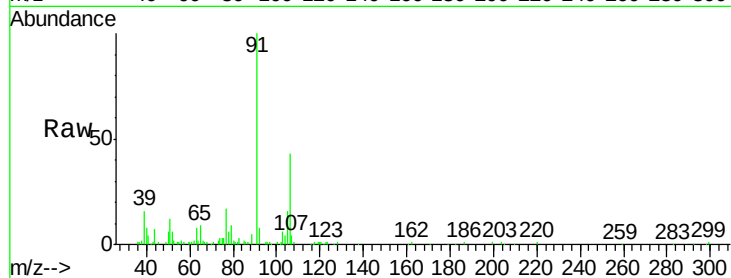
#60
o-Xylene
Concen: 0.22 ppbv
RT: 13.94 min Scan# 3997
Delta R.T. -0.01 min
Lab File: VL032270.D
Acq: 18 Jul 2018 21:09

Instrument :
MSVOA_L
ClientSampled :
B-1

Tot Ion: 91 Resp: 104390
Ion Ratio Lower Upper
91 100
106 45.1 21.7 65.1

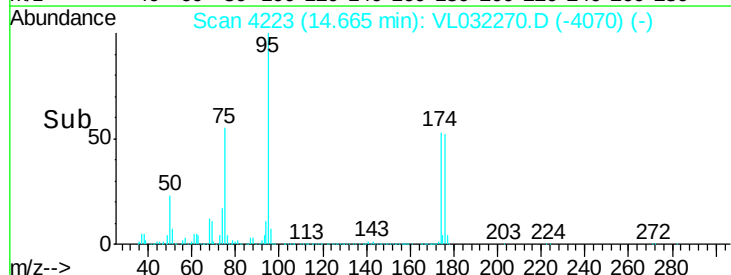
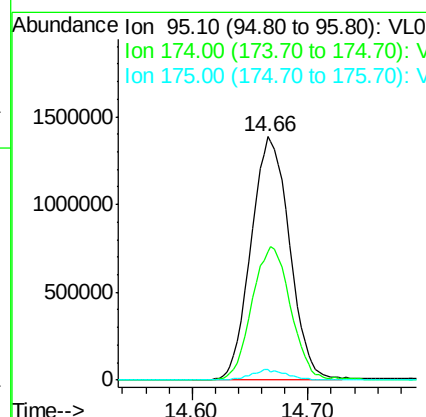
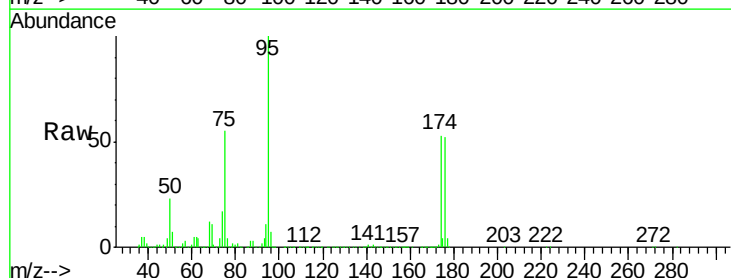
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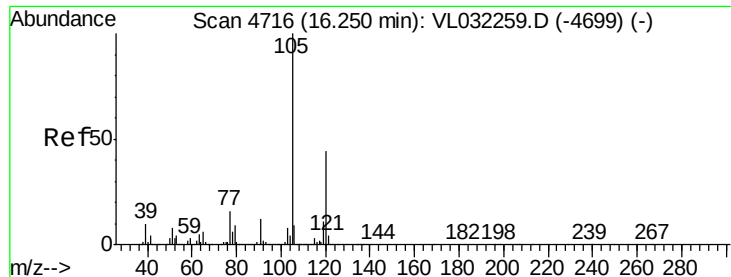
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.87 ppbv
RT: 14.66 min Scan# 4223
Delta R.T. -0.01 min
Lab File: VL032270.D
Acq: 18 Jul 2018 21:09

Tgt Ion: 95 Resp: 3209817
Ion Ratio Lower Upper
95 100
174 55.9 44.3 66.5
175 4.0 3.3 4.9





#73

1,3,5-Trimethylbenzene

Concen: 0.11 ppbv m

RT: 16.24 min Scan# 4714

Delta R.T. -0.01 min

Lab File: VL032270.D

Acq: 18 Jul 2018 21:09

Instrument :

MSVOA_L

ClientSampled :

B-1

Tot Ion:105 Resp: 60085

Ion Ratio Lower Upper

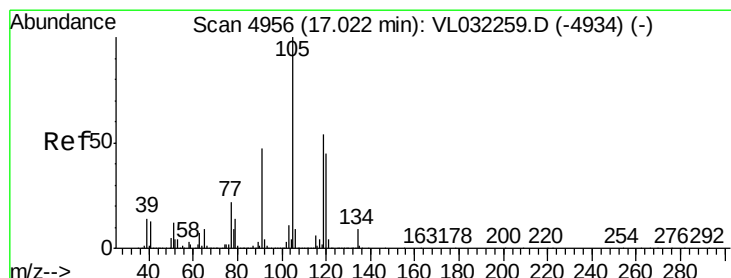
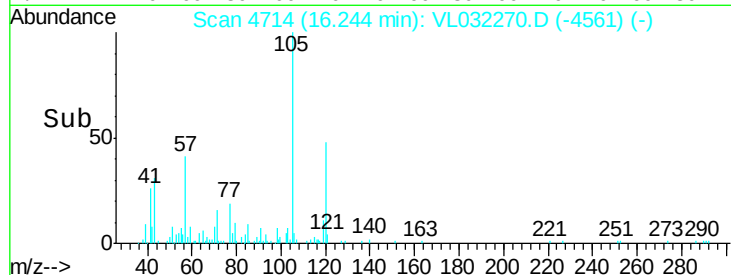
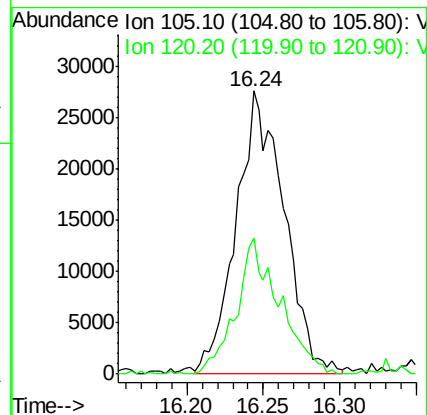
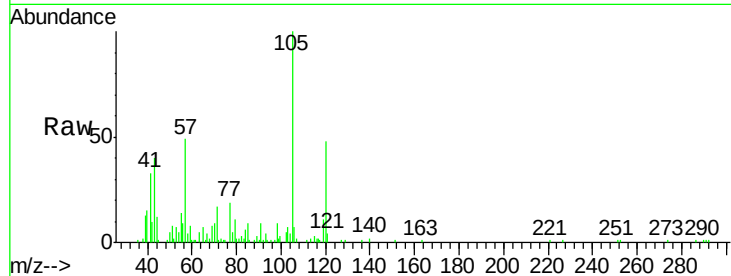
105 100

120 48.0 35.5 53.3

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#74

1,2,4-Trimethylbenzene

Concen: 0.31 ppbv

RT: 17.02 min Scan# 4954

Delta R.T. -0.01 min

Lab File: VL032270.D

Acq: 18 Jul 2018 21:09

Tgt Ion:105 Resp: 176932

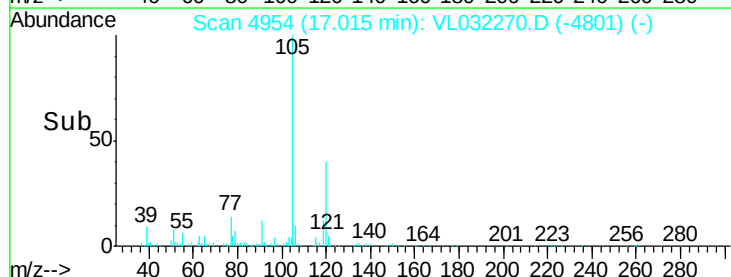
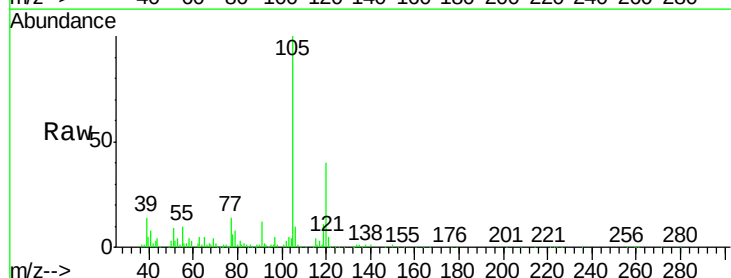
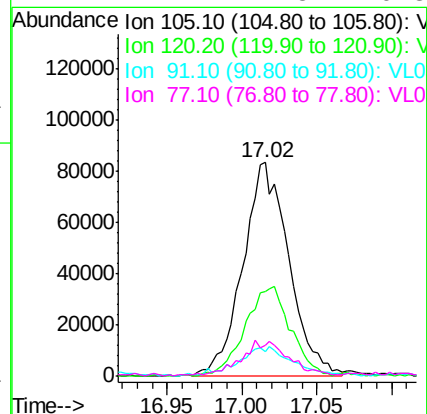
Ion Ratio Lower Upper

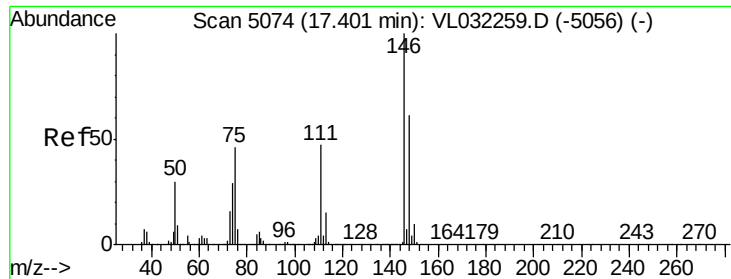
105 100

120 39.6 35.8 53.6

91 10.9 38.2 57.4#

77 14.1 17.5 26.3#





#76
 1,4-Dichlorobenzene
 Concen: 0.38 ppbv
 RT: 17.40 min Scan# 5074
 Delta R.T. -0.00 min
 Lab File: VL032270.D
 Acq: 18 Jul 2018 21:09

Instrument :
 MSVOA_L
 ClientSampleId :
 B-1

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.4	24.1	72.2
148	63.7	31.9	95.9

Manual Integrations
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 7/20/2018 2:53:13 PM

