

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032966.D
 Acq On : 11 Dec 2018 22:39
 Operator : SY/AP
 Sample : J6264-15
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A55G1

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 7:58:47 AM

Quant Time: Dec 12 02:16:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1342987	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3487898	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3317730	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2491603	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	23692	0.132	ppbv	99
3) Chlorodifluoromethane	3.02	51	27580m	0.271	ppbv	
4) Chloromethane	3.17	50	34878	0.589	ppbv	91
9) Propene	3.04	41	254983	6.340	ppbv	84
10) Heptane	8.25	43	381969	2.528	ppbv	99
11) Trichlorofluoromethane	4.01	101	308715	1.828	ppbv	98
13) Ethanol	3.67	45	1205424	87.052	ppbv	97
15) Acetone	3.90	43	19541637	169.526	ppbv #	71
17) tert-Butyl alcohol	4.37	59	150896	5.142	ppbv #	98
19) Isopropyl Alcohol	4.04	45	730475	10.091	ppbv #	95
20) Methylene Chloride	4.42	84	451844	8.020	ppbv	98
26) Hexane	5.79	57	811968	6.459	ppbv #	46
27) Carbon Disulfide	4.62	76	295490	1.880	ppbv	99
30) Cyclohexane	7.25	84	131739	1.264	ppbv	97
34) 2-Butanone	5.34	43	2615590	17.216	ppbv	99
35) Carbon Tetrachloride	7.15	117	19737m	0.072	ppbv	
36) Benzene	7.01	78	958712	3.737	ppbv	98
40) 1,4-Dioxane	7.96	88	258361m	7.209	ppbv	
41) Tetrahydrofuran	6.16	42	86798	0.919	ppbv	93
44) 2,2,4-Trimethylpentane	7.99	57	900360	2.068	ppbv	94
50) 4-Methyl-2-Pentanone	8.88	43	155410	0.640	ppbv	97
52) Tetrachloroethene	11.38	164	8304m	0.089	ppbv	
53) Toluene	9.95	91	3030446	11.138	ppbv	99
58) Ethyl Benzene	12.87	91	660972	1.868	ppbv	93
59) m/p-Xylene	13.13	91	1440882	4.490	ppbv #	100
60) o-Xylene	13.86	91	486532	1.501	ppbv	98
61) Styrene	13.69	104	157011	0.728	ppbv	98
62) Isopropylbenzene	14.84	105	9280314	20.527	ppbv	98
73) 1,3,5-Trimethylbenzene	16.17	105	63377m	0.179	ppbv	
74) 1,2,4-Trimethylbenzene	16.94	105	238818m	0.599	ppbv	

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

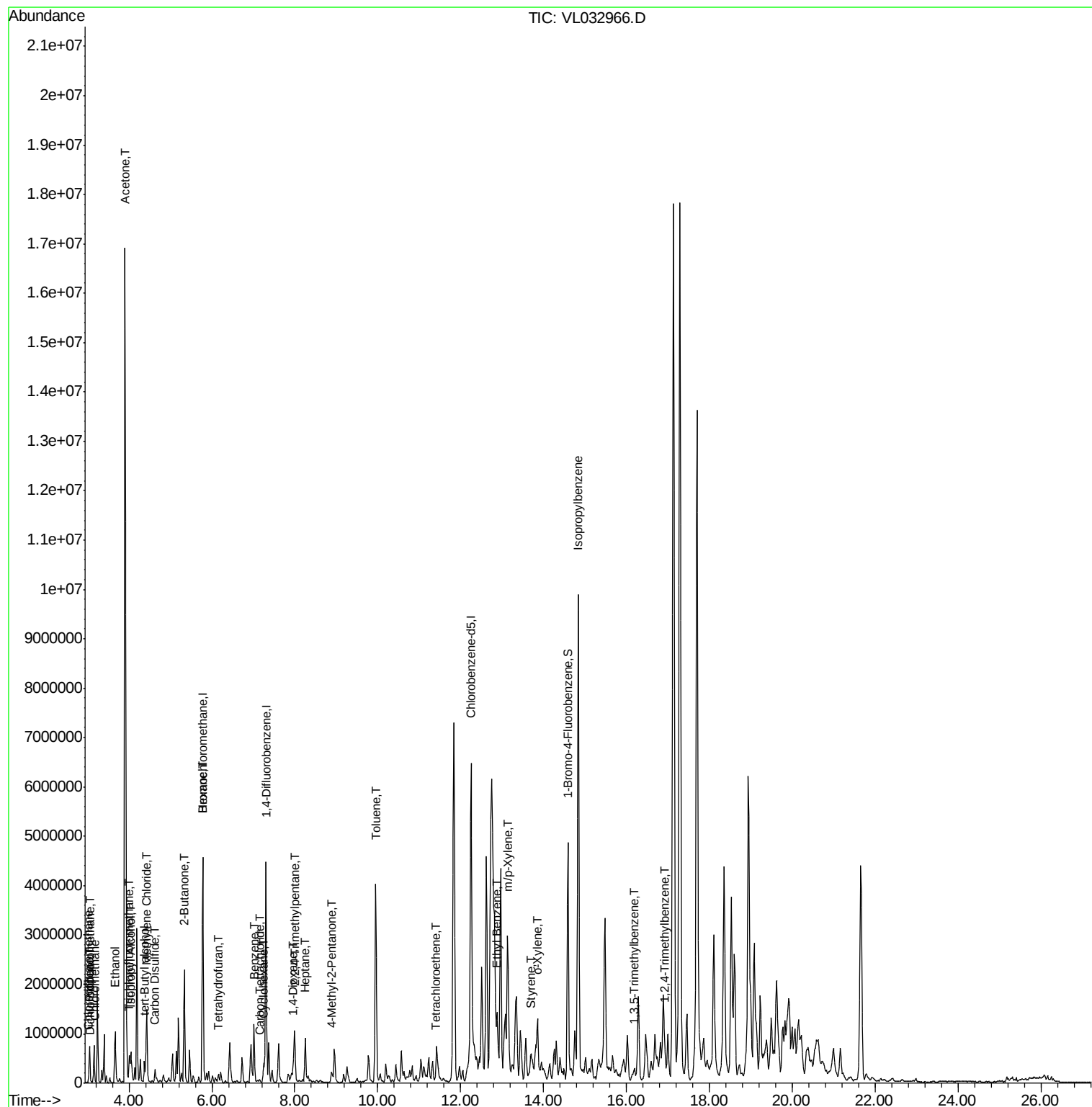
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
Data File : VL032966.D
Acq On : 11 Dec 2018 22:39
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

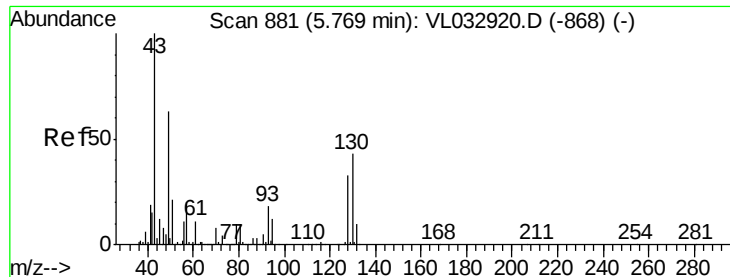
Instrument :
MSVOA_L
ClientSampleId :
A55G1

Manual Integrations
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12/13/2018 7:58:47 AM

Quant Time: Dec 12 02:16:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

ClientSampled :

A55G1

Tot Ion: 49 Resp: 1342987

Ion Ratio Lower Upper

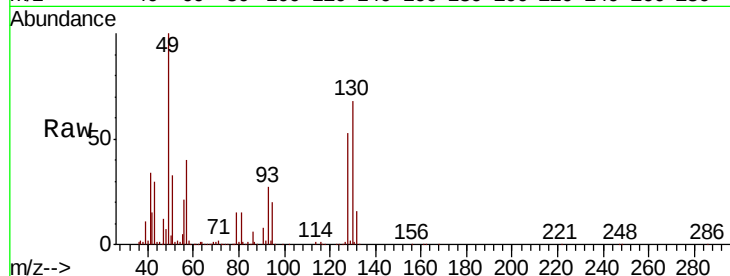
49 100

128 52.6 26.3 78.8

130 66.4 33.9 101.7

Manual Integrations
APPROVED

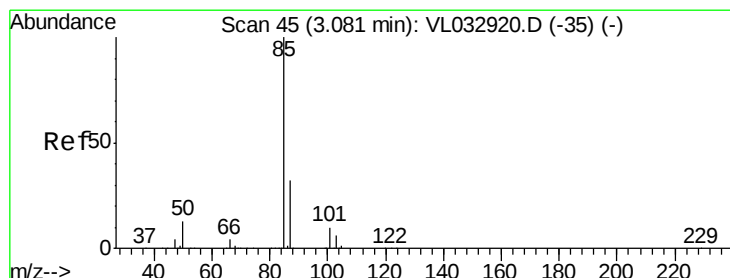
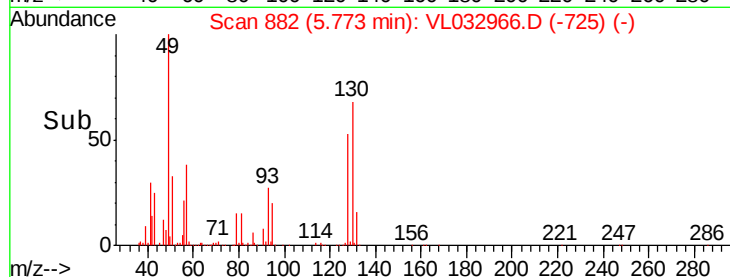
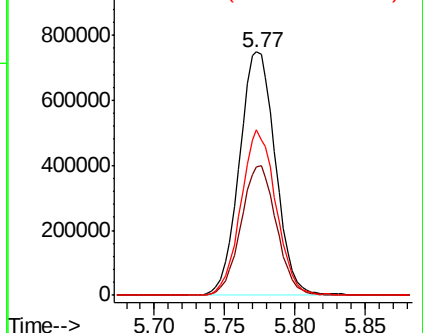
MMDadoda
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.132 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL032966.D

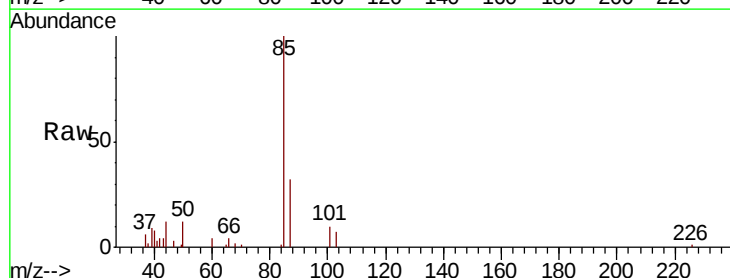
Acq: 11 Dec 2018 22:39

Tgt Ion: 85 Resp: 23692

Ion Ratio Lower Upper

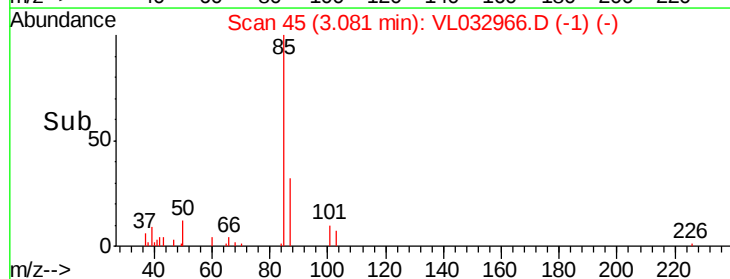
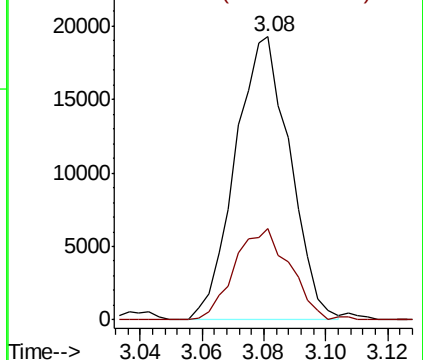
85 100

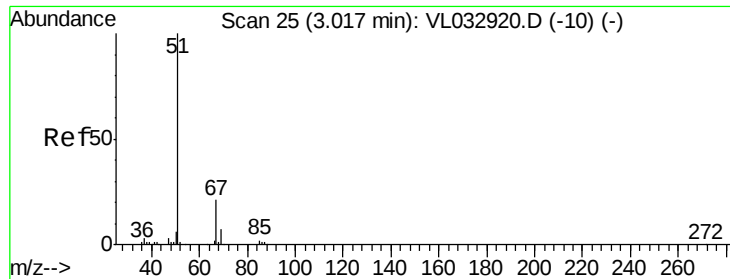
87 32.5 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.271 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

ClientSampleId :

A55G1

Tot Ion: 51 Resp: 27580

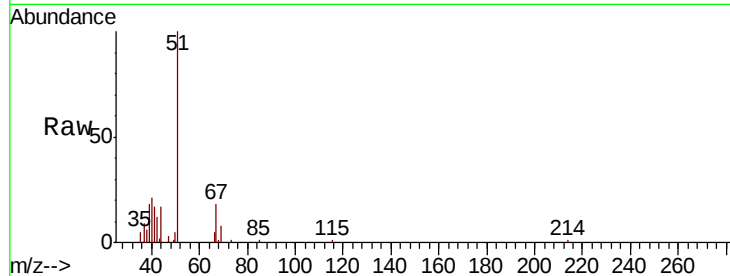
Ion Ratio Lower Upper

51 100

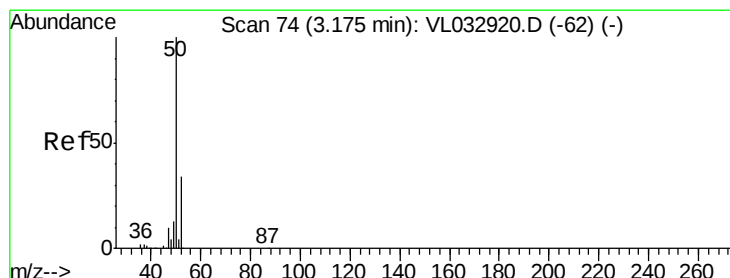
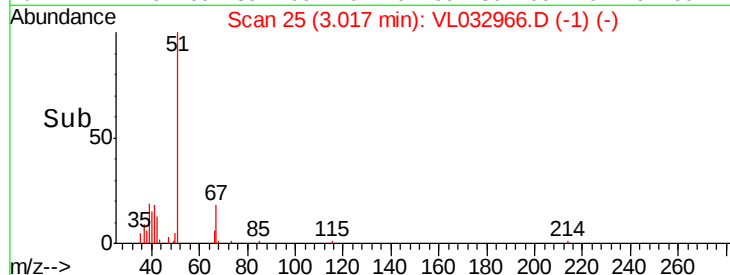
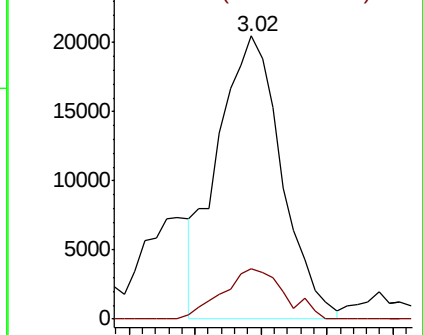
67 17.3 16.8 25.2

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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: 0.589 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032966.D

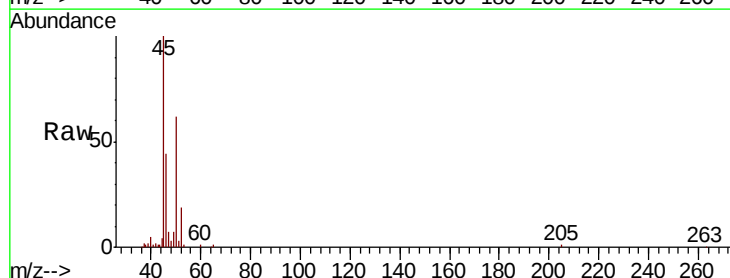
Acq: 11 Dec 2018 22:39

Tgt Ion: 50 Resp: 34878

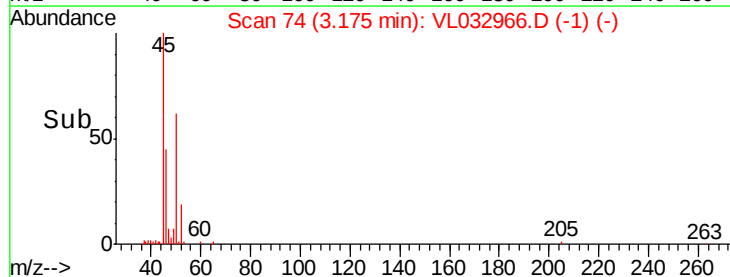
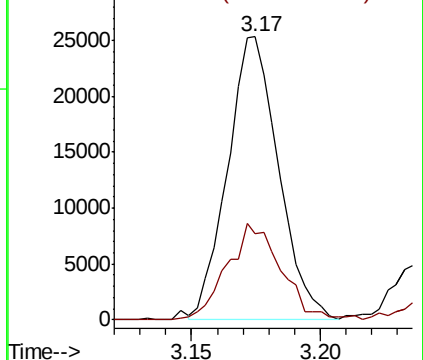
Ion Ratio Lower Upper

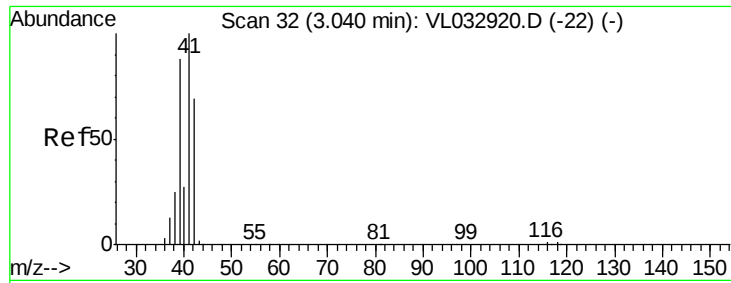
50 100

52 29.1 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 6.340 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

ClientSampleId :

A55G1

Tot Ion: 41 Resp: 254983

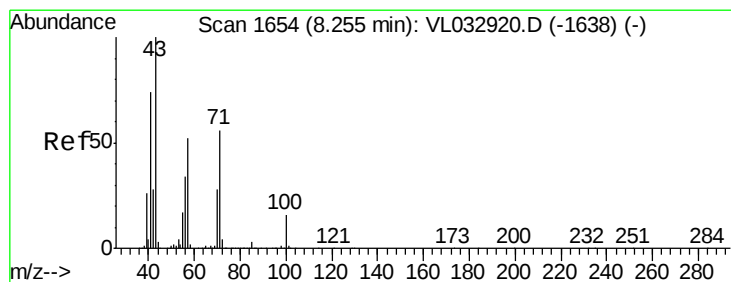
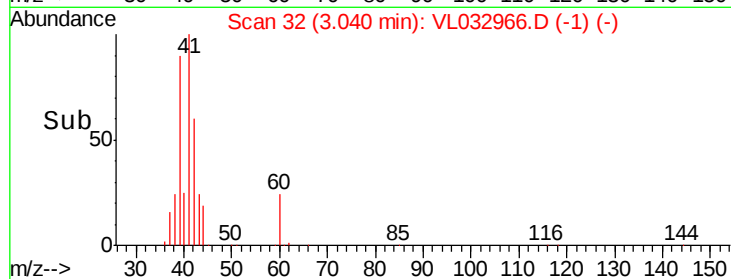
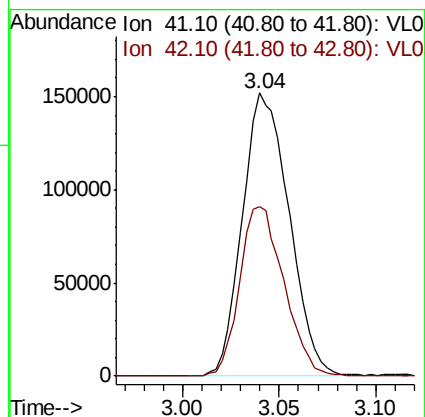
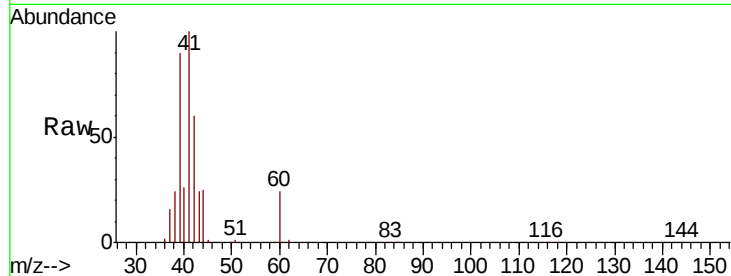
Ion Ratio Lower Upper

41 100

42 56.7 56.2 84.2

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#10

Heptane

Concen: 2.528 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.01 min

Lab File: VL032966.D

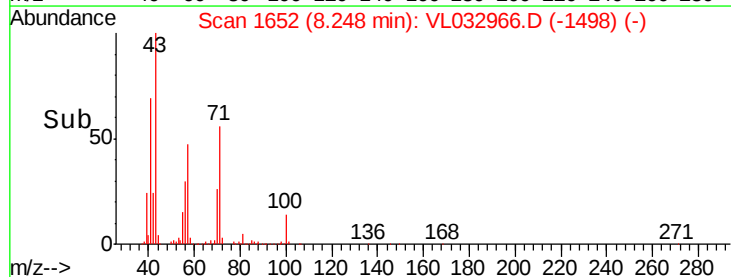
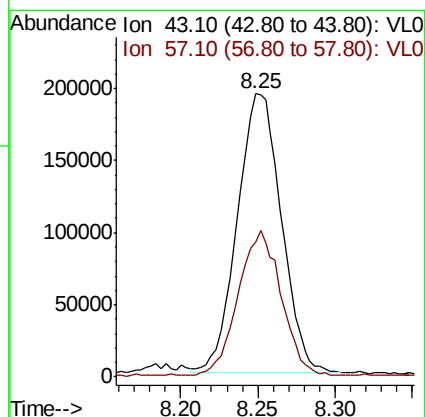
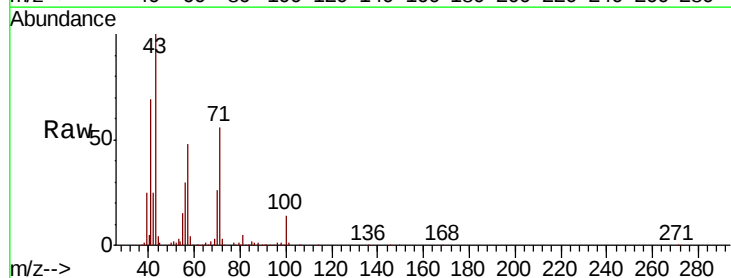
Acq: 11 Dec 2018 22:39

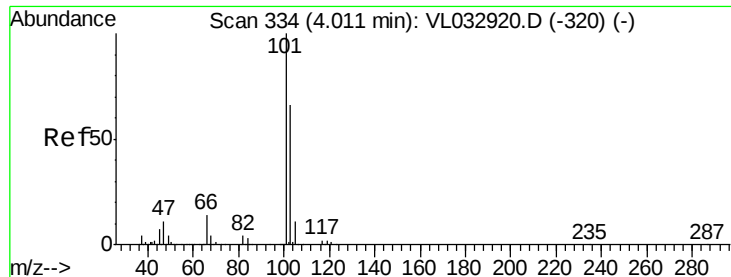
Tgt Ion: 43 Resp: 381969

Ion Ratio Lower Upper

43 100

57 51.8 41.8 62.6





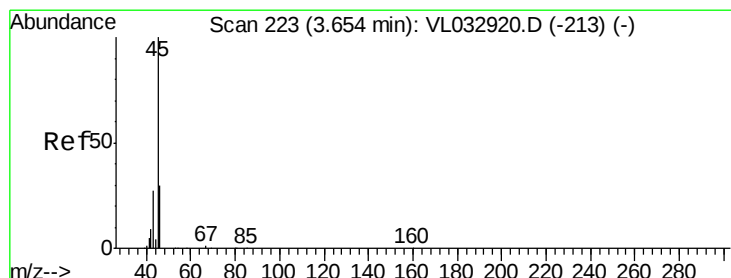
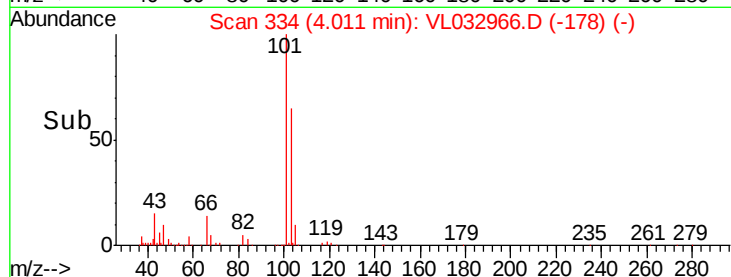
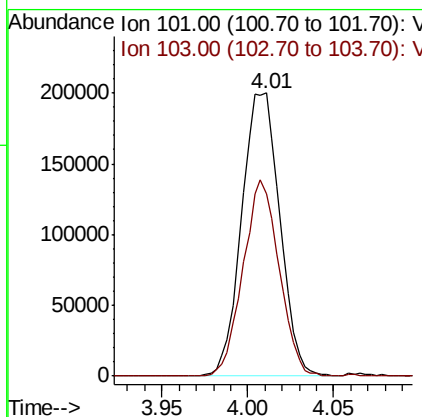
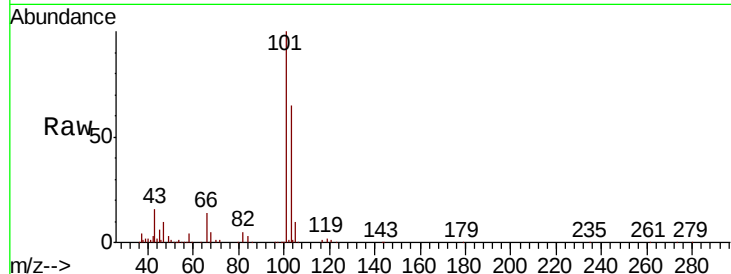
#11
Trichlorofluoromethane
Concen: 1.828 ppbv
RT: 4.01 min Scan# 334
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Instrument :
MSVOA_L
ClientSampleId :
A55G1

Tot Ion:101 Resp: 308715
Ion Ratio Lower Upper
101 100
103 64.6 52.7 79.1

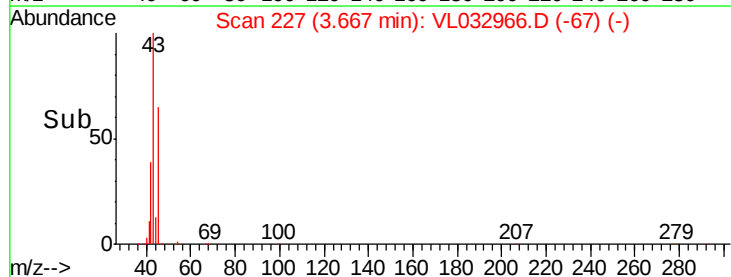
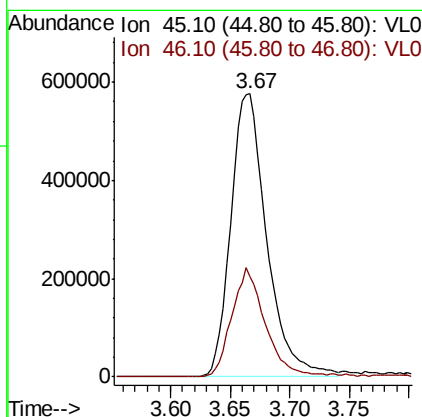
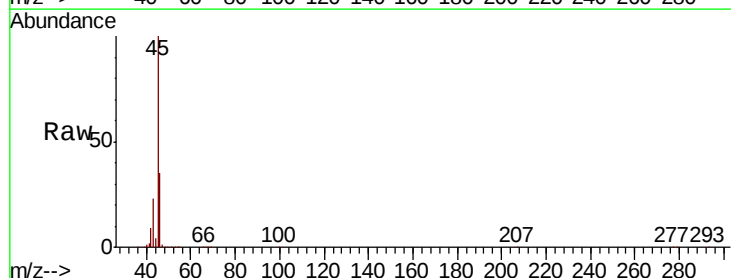
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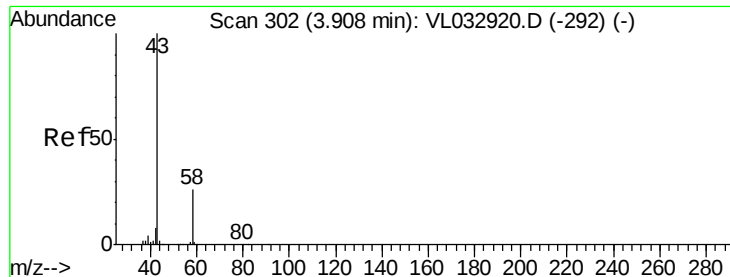
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#13
Ethanol
Concen: 87.052 ppbv
RT: 3.67 min Scan# 227
Delta R.T. 0.01 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion: 45 Resp: 1205424
Ion Ratio Lower Upper
45 100
46 36.4 13.8 55.4





#15

Acetone

Concen: 169.526 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

ClientSampleId :

A55G1

Tot Ion: 43 Resp:19541637

Ion Ratio Lower Upper

43 100

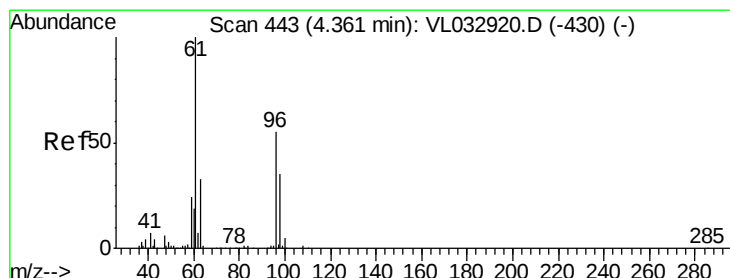
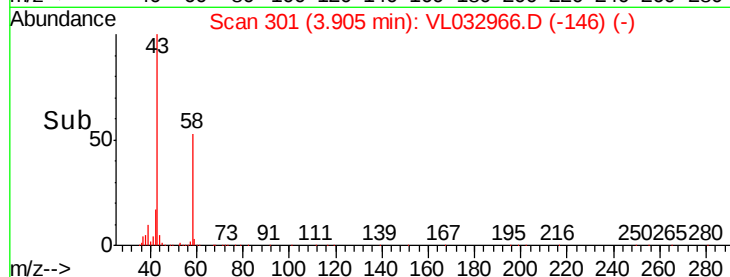
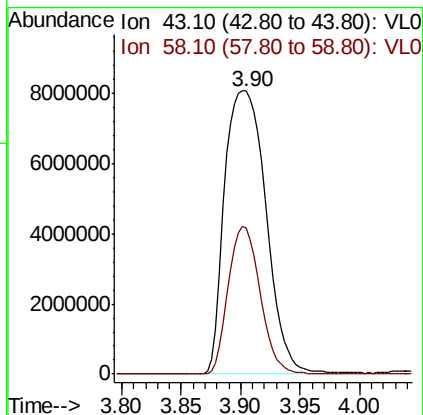
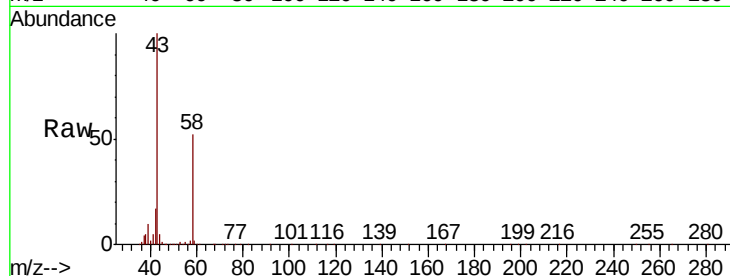
58 40.4 20.6 30.8#

Manual Integrations

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#17

tert-Butyl alcohol

Concen: 5.142 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.01 min

Lab File: VL032966.D

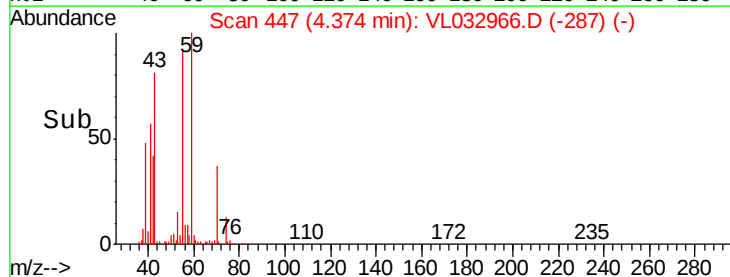
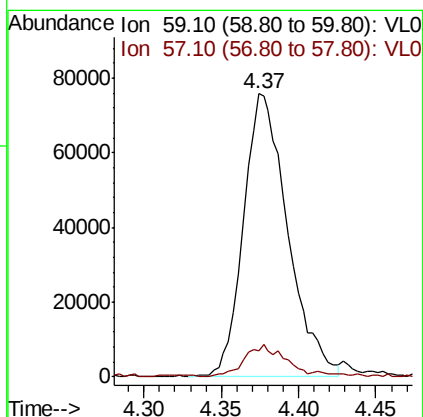
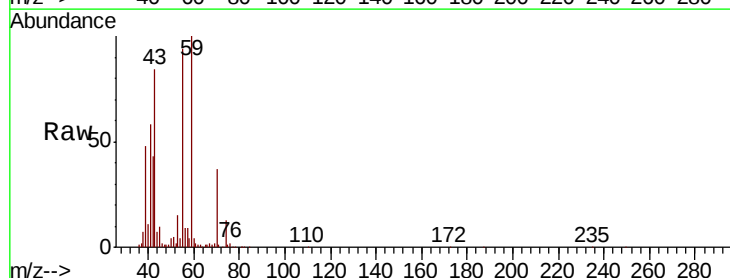
Acq: 11 Dec 2018 22:39

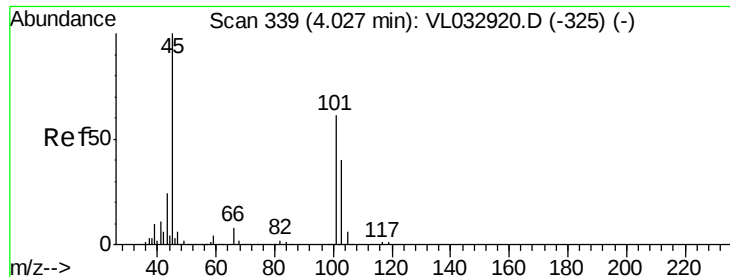
Tgt Ion: 59 Resp: 150896

Ion Ratio Lower Upper

59 100

57 0.0 0.6 1.0#





#19

Isopropyl Alcohol

Concen: 10.091 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

ClientSampleId :

A55G1

Tot Ion: 45 Resp: 730475

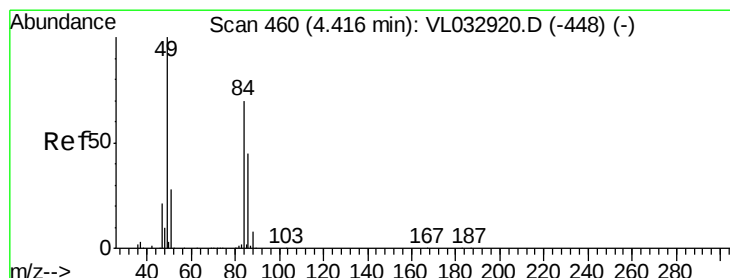
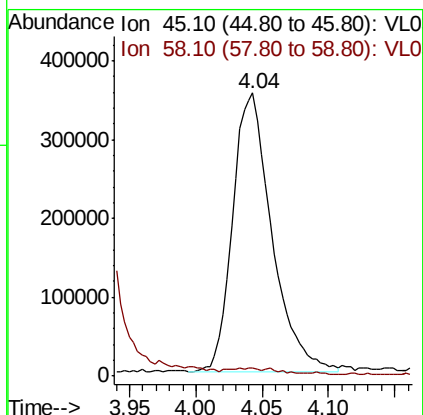
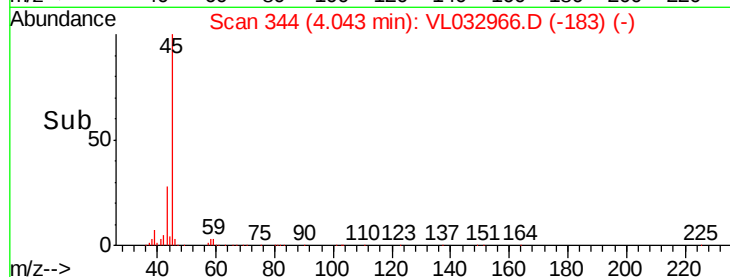
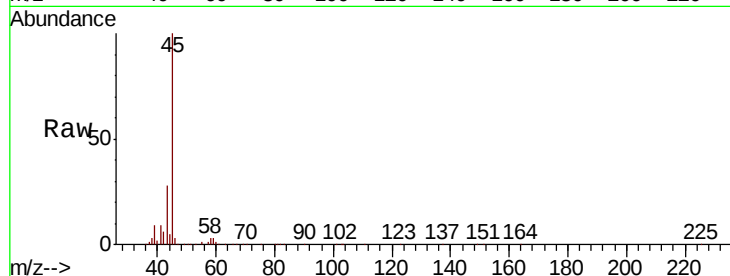
Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#

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#20

Methylene Chloride

Concen: 8.020 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Tgt Ion: 84 Resp: 451844

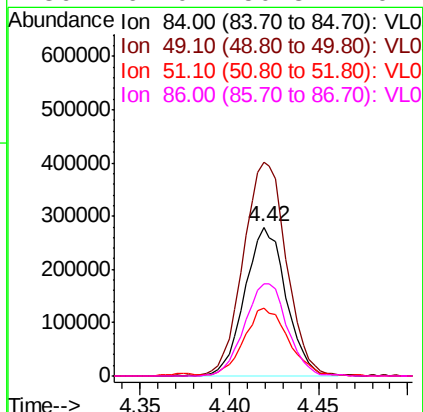
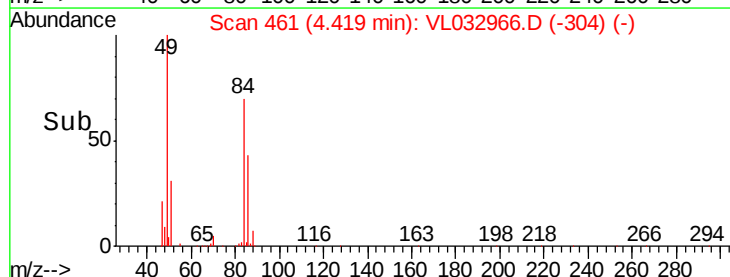
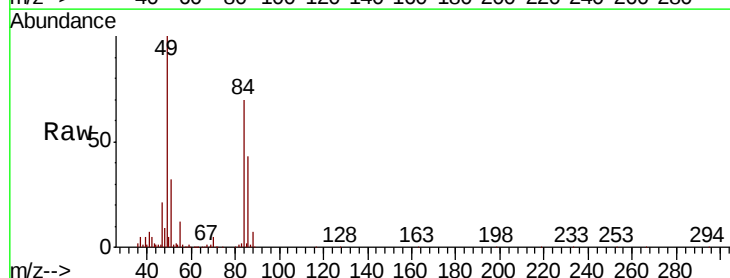
Ion Ratio Lower Upper

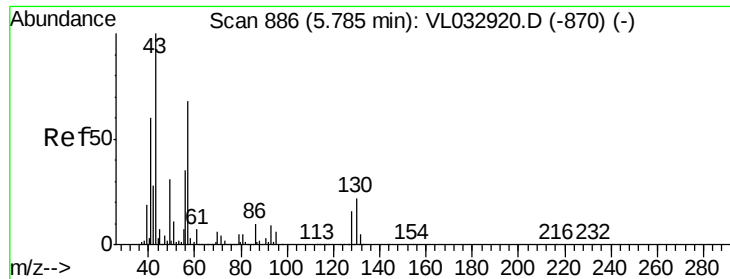
84 100

49 142.9 113.8 170.8

51 45.2 31.8 47.8

86 62.0 50.8 76.2





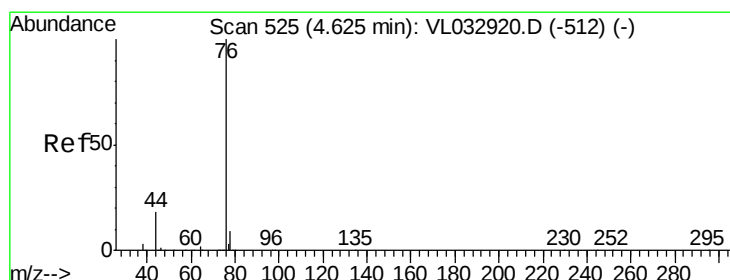
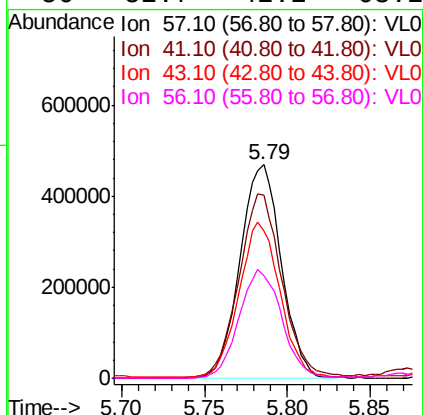
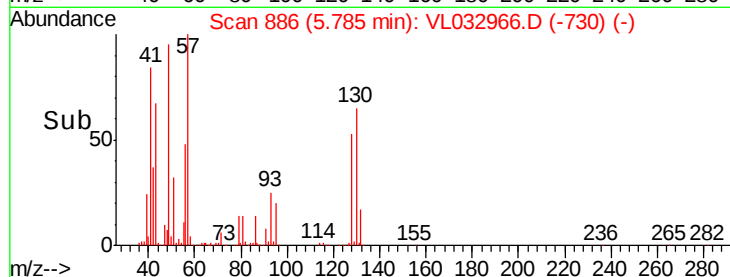
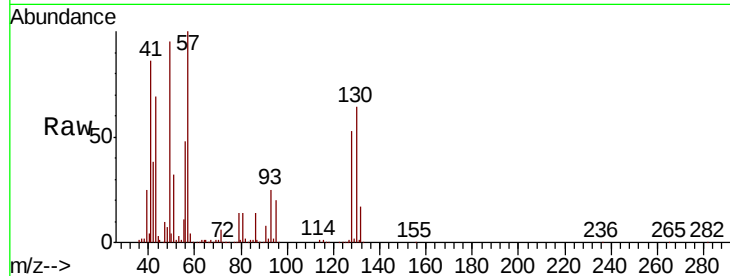
#26
Hexane
Concen: 6.459 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Instrument :
MSVOA_L
ClientSampled :
A55G1

Tot Ion	57	Resp	811968
Ion	Ratio	Lower	Upper
57	100		
41	90.5	72.2	108.2
43	72.5	171.9	257.9#
56	52.7	42.2	63.2

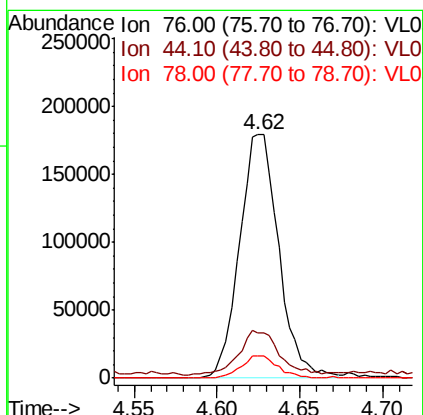
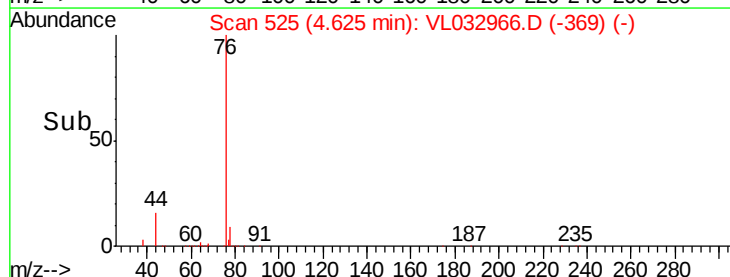
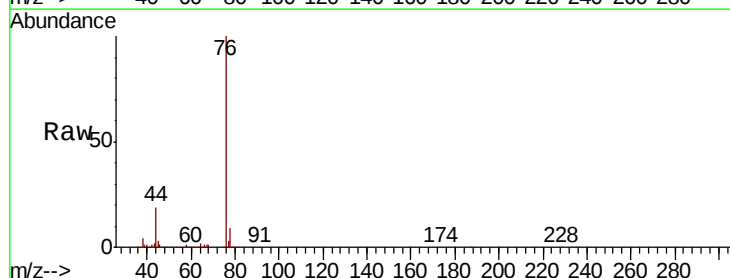
Manual Integrations
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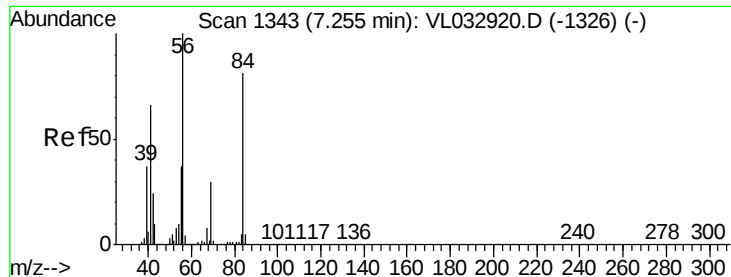
MMDadoda
12/13/2018 7:58:47 AM



#27
Carbon Disulfide
Concen: 1.880 ppbv
RT: 4.62 min Scan# 525
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion	76	Resp	295490
Ion	Ratio	Lower	Upper
76	100		
44	18.8	14.7	22.1
78	9.1	7.4	11.2





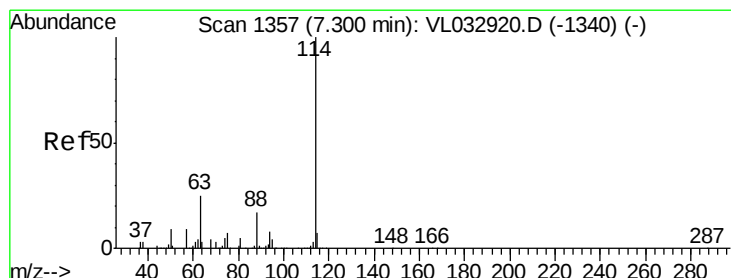
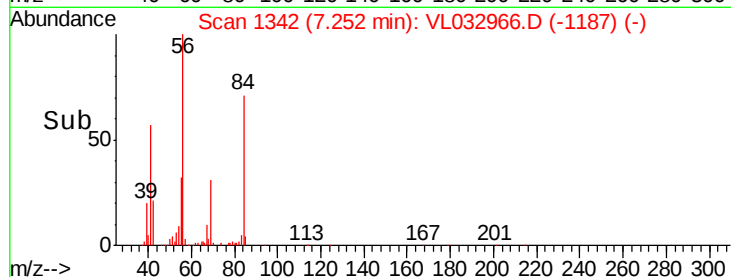
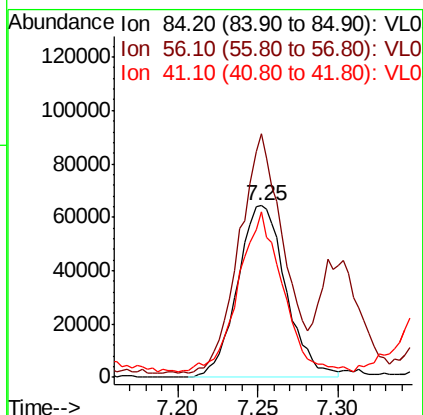
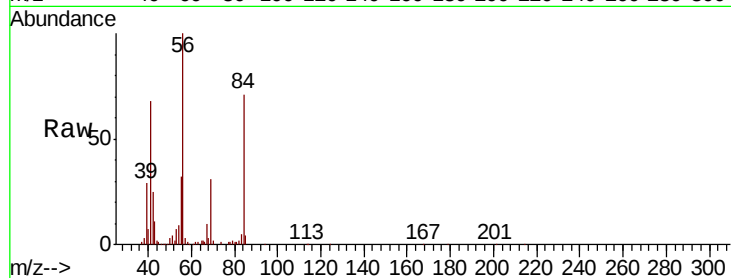
#30
Cyclohexane
Concen: 1.264 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Instrument :
MSVOA_L
ClientSampleId :
A55G1

Tot Ion	Ratio	Lower	Upper
84	100		
56	128.0	102.5	153.7
41	87.3	64.1	96.1

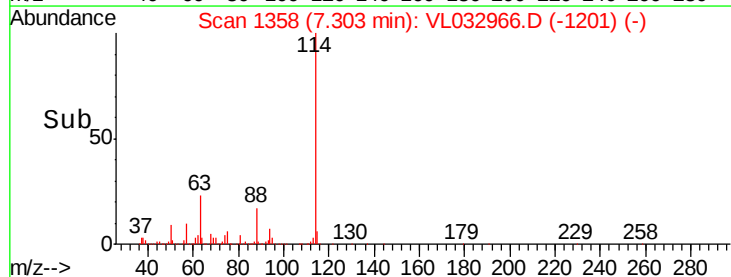
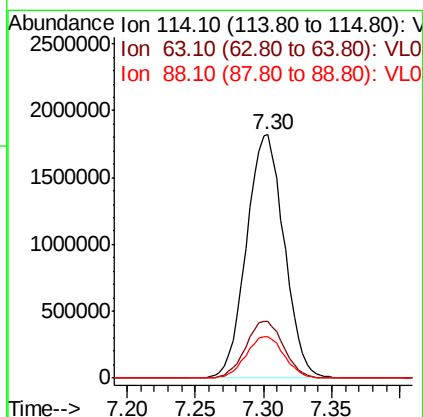
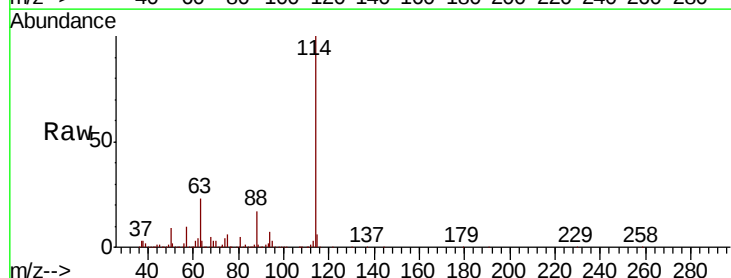
Manual Integrations
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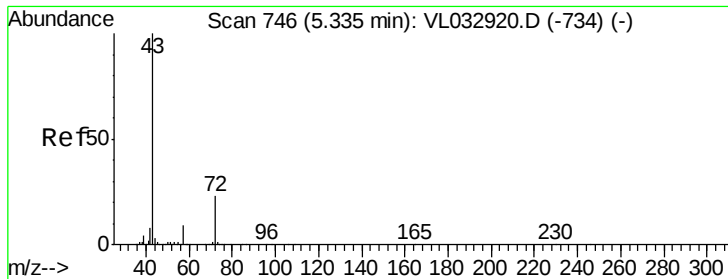
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.5	20.1	30.1
88	17.3	14.2	21.4





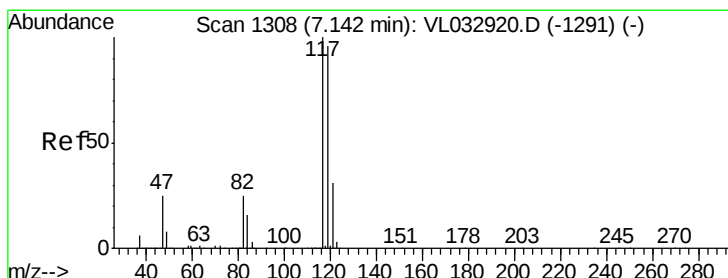
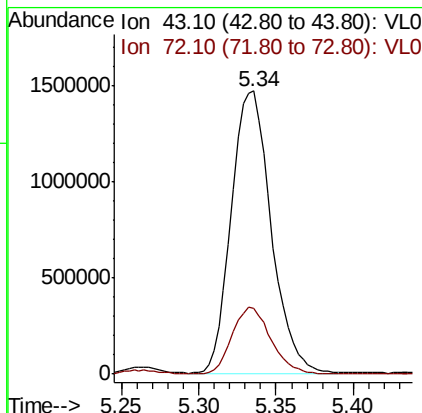
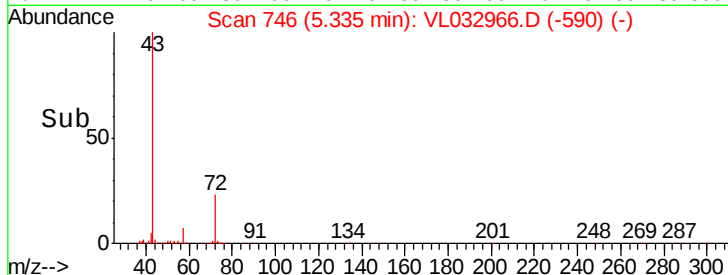
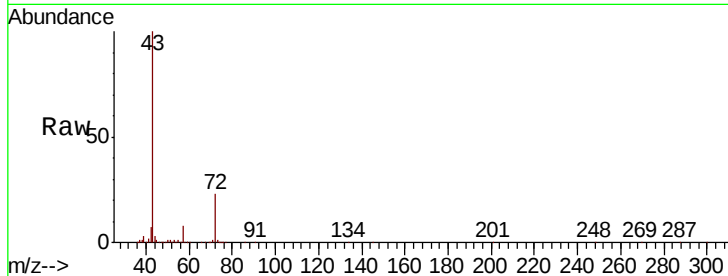
#34
2-Butanone
Concen: 17.216 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Instrument :
MSVOA_L
ClientSampleId :
A55G1

Tot Ion: 43 Resp: 261590
Ion Ratio Lower Upper
43 100
72 23.2 18.8 28.2

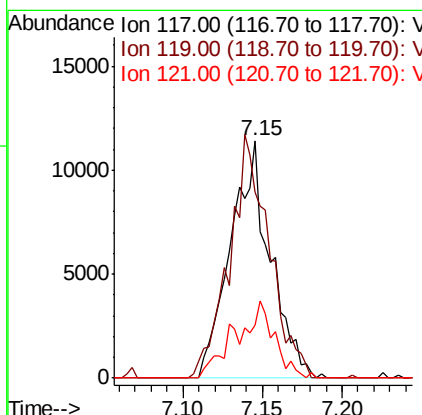
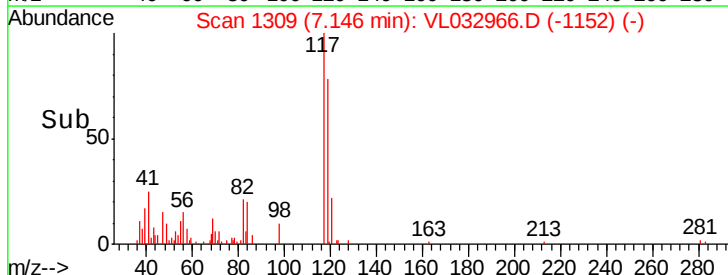
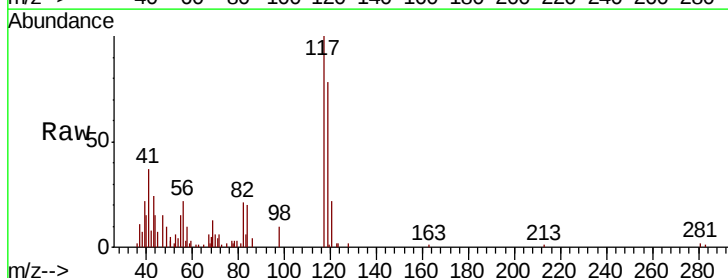
Manual Integrations
APPROVED

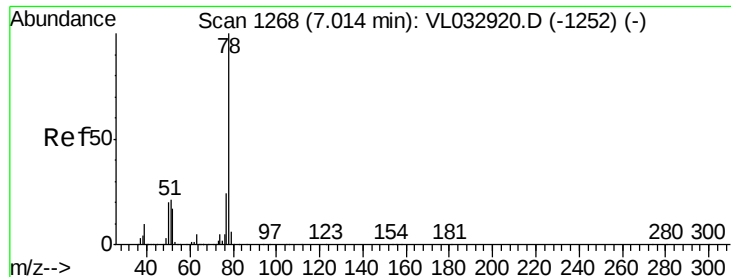
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#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 7.15 min Scan# 1309
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion: 117 Resp: 19737
Ion Ratio Lower Upper
117 100
119 78.3 76.5 114.7
121 22.4 24.5 36.7#





#36

Benzene

Concen: 3.737 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

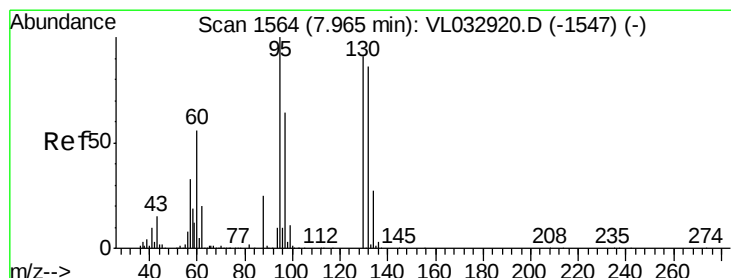
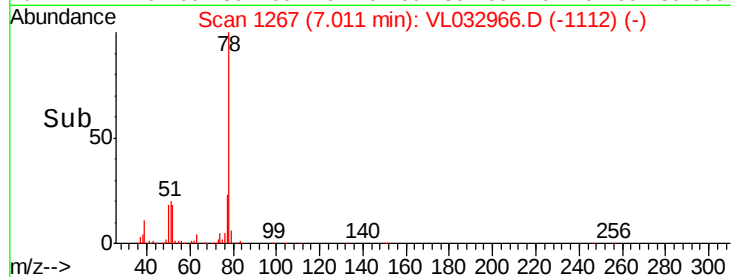
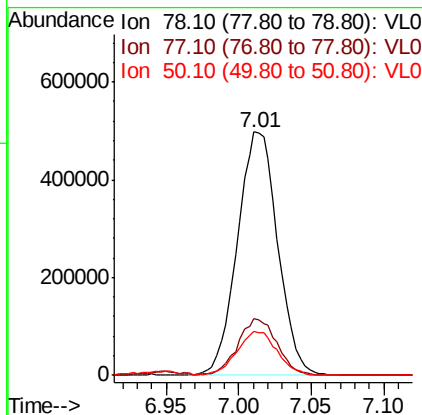
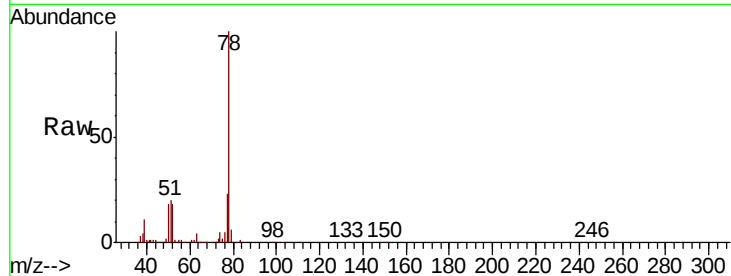
ClientSampleId :

A55G1

Tot Ion:	78	Resp:	958712
Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.9	28.3
50	18.2	16.1	24.1

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#40

1,4-Dioxane

Concen: 7.209 ppbv m

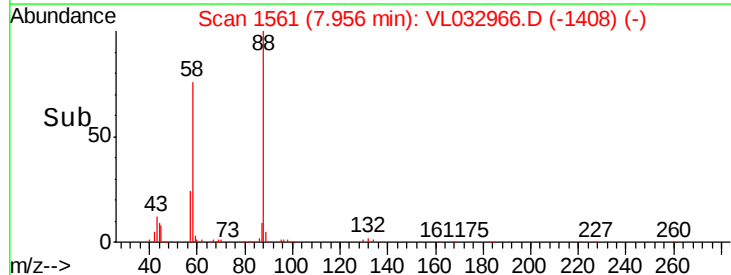
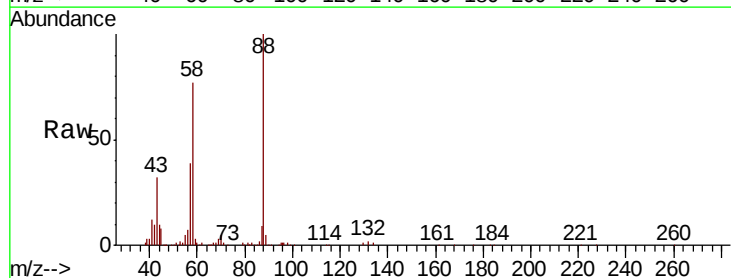
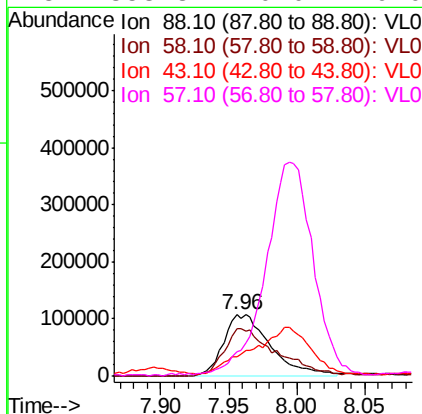
RT: 7.96 min Scan# 1561

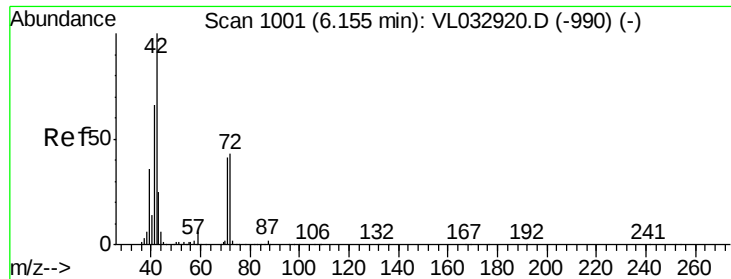
Delta R.T. -0.01 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Tgt Ion:	88	Resp:	258361
Ion	Ratio	Lower	Upper
88	100		
58	86.4	107.4	161.2#
43	100.8	0.0	0.0#
57	353.3	0.0	0.0#





#41

Tetrahydrofuran

Concen: 0.919 ppbv

RT: 6.16 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

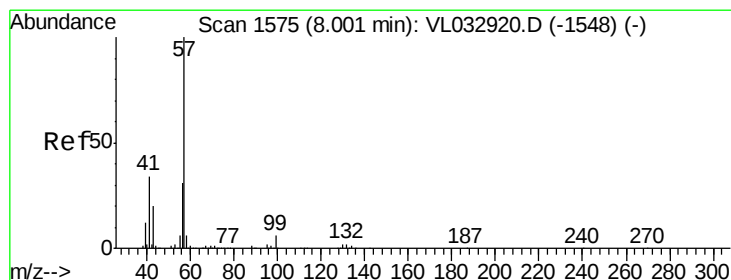
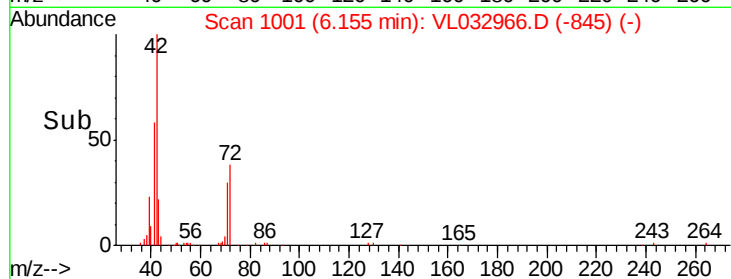
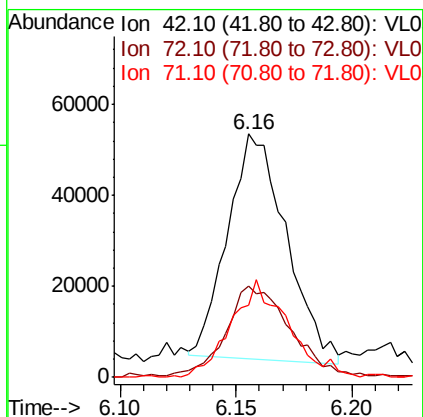
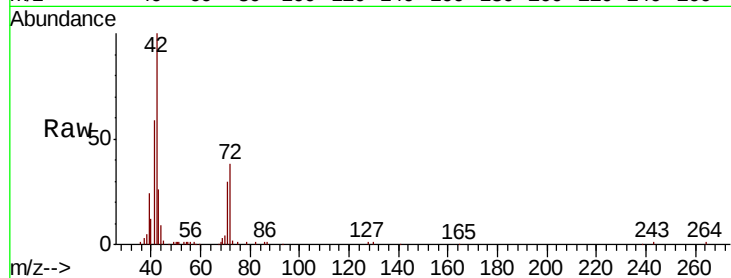
ClientSampleId :

A55G1

Tot Ion:	42	Resp:	86798
Ion Ratio	Lower	Upper	
42	100		
72	47.0	32.9	49.3
71	42.8	32.0	48.0

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#44

2,2,4-Trimethylpentane

Concen: 2.068 ppbv

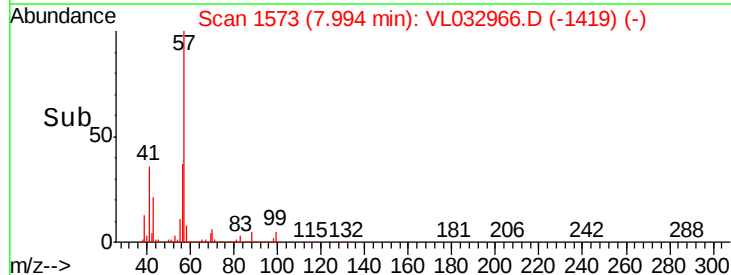
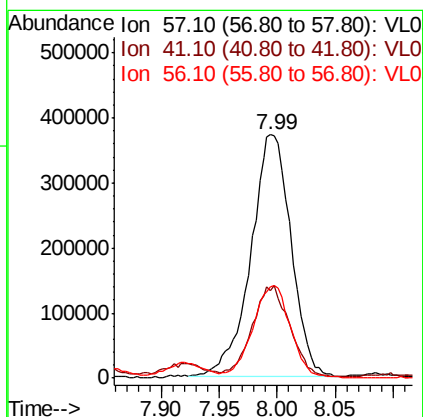
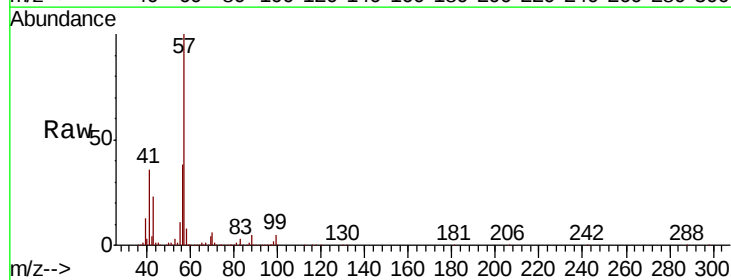
RT: 7.99 min Scan# 1573

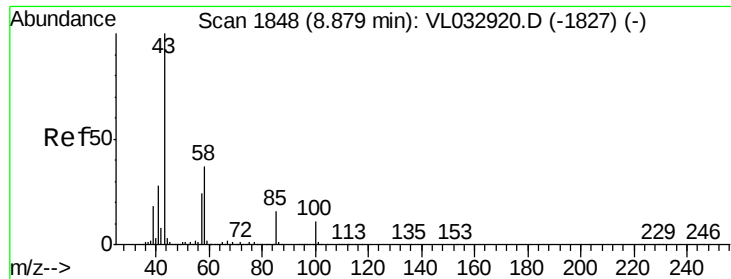
Delta R.T. -0.01 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Tgt Ion:	57	Resp:	900360
Ion Ratio	Lower	Upper	
57	100		
41	34.8	27.0	40.4
56	36.1	24.6	37.0





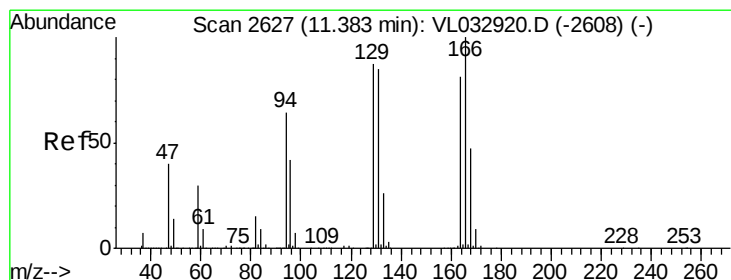
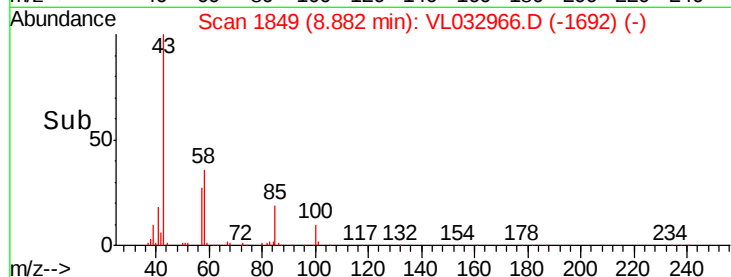
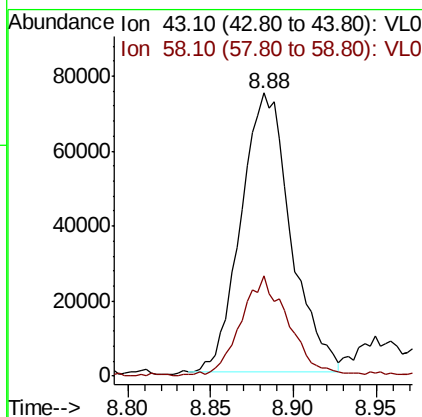
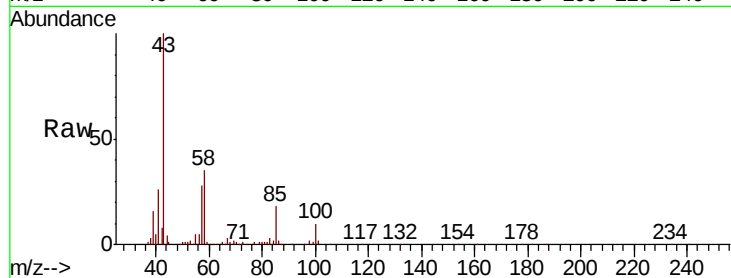
#50
4-Methyl-2-Pentanone
Concen: 0.640 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Instrument :
MSVOA_L
ClientSampleId :
A55G1

Tot Ion: 43 Resp: 155410
Ion Ratio Lower Upper
43 100
58 34.7 29.0 43.4

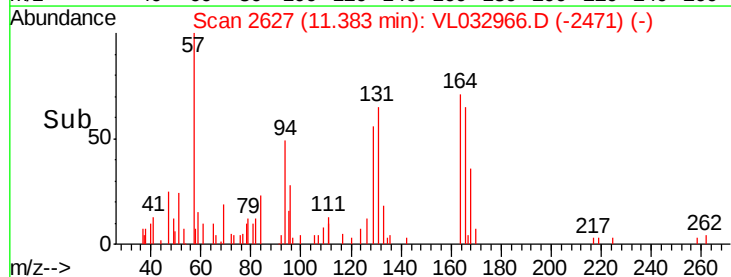
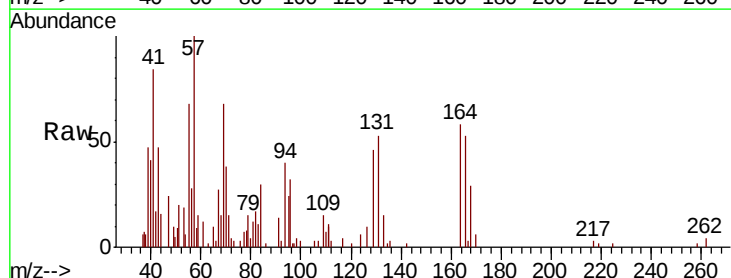
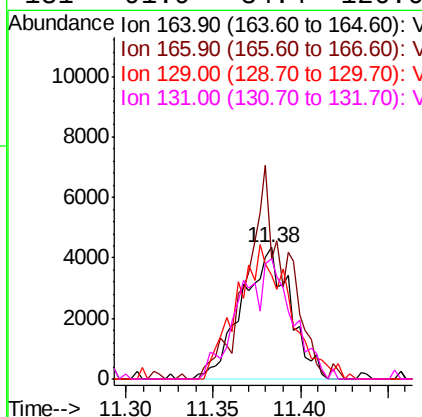
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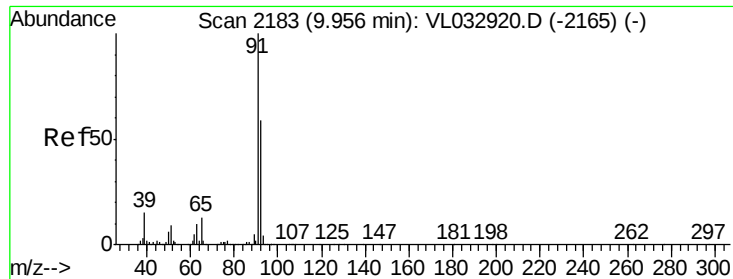
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#52
Tetrachloroethene
Concen: 0.089 ppbv m
RT: 11.38 min Scan# 2627
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion:164 Resp: 8304
Ion Ratio Lower Upper
164 100
166 92.0 98.8 148.2#
129 78.6 85.5 128.3#
131 91.9 84.4 126.6





#53

Toluene

Concen: 11.138 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

ClientSampleId :

A55G1

Tot Ion: 91 Resp: 3030446

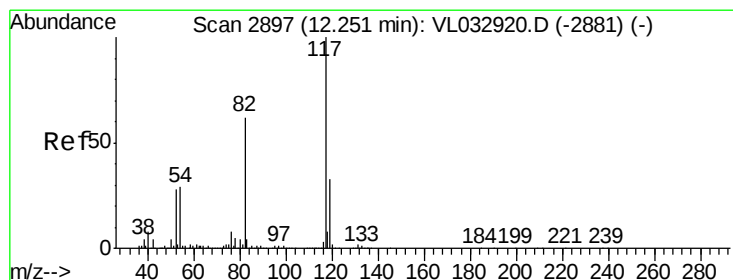
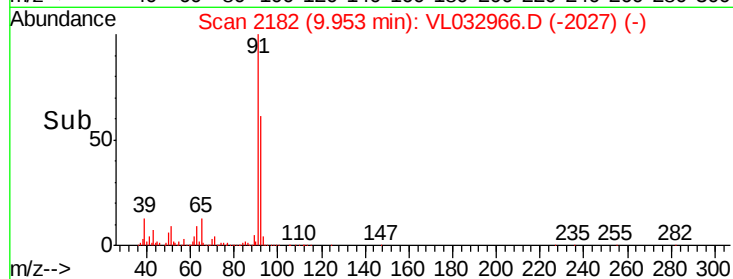
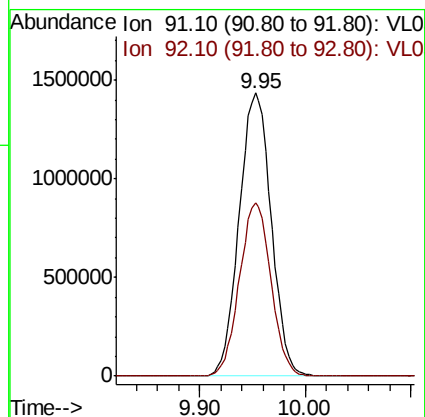
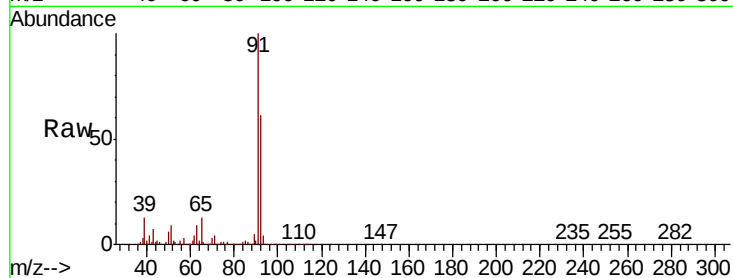
Ion Ratio Lower Upper

91 100

92 60.2 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

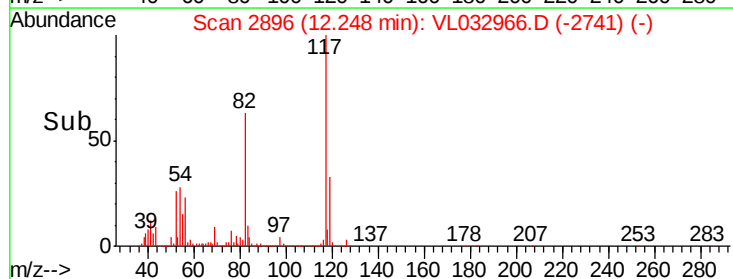
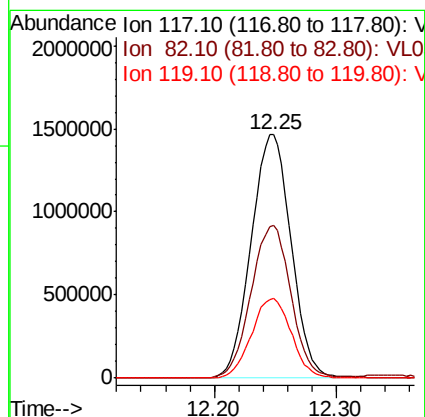
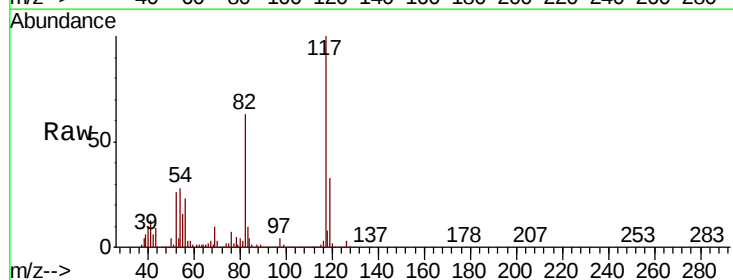
Tgt Ion: 117 Resp: 3317730

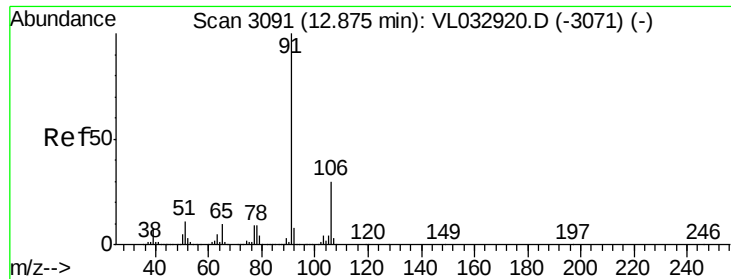
Ion Ratio Lower Upper

117 100

82 62.8 47.8 71.8

119 32.6 43.1 64.7#





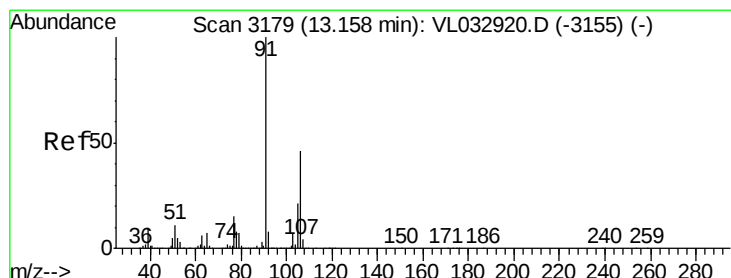
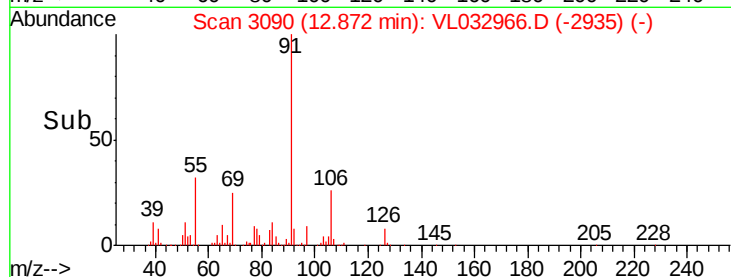
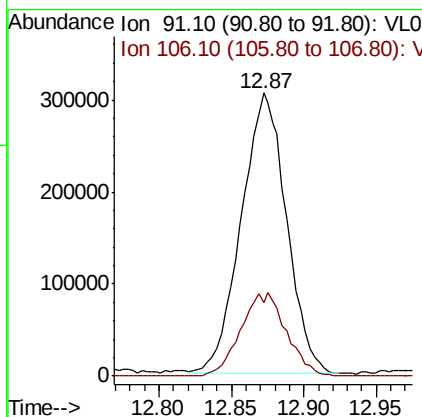
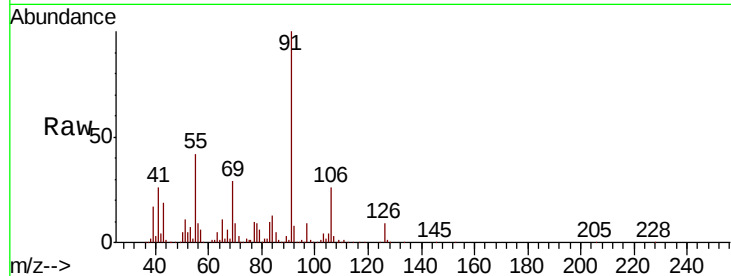
#58
Ethyl Benzene
Concen: 1.868 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Instrument :
MSVOA_L
ClientSampleId :
A55G1

Tot Ion: 91 Resp: 660972
Ion Ratio Lower Upper
91 100
106 26.0 23.9 35.9

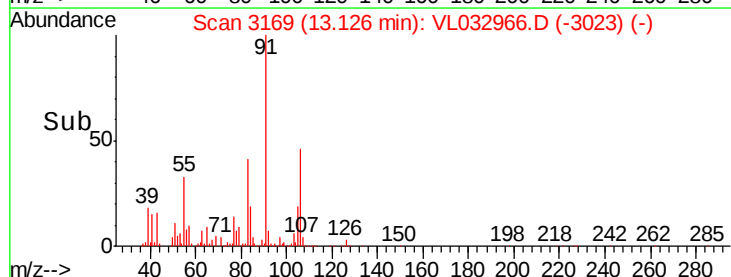
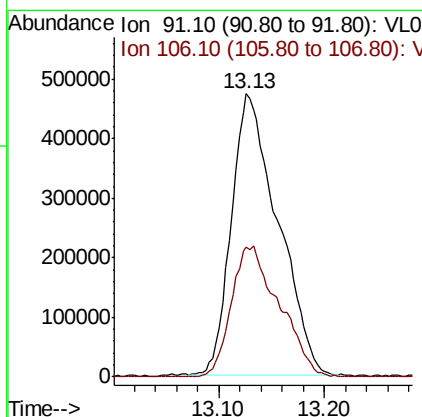
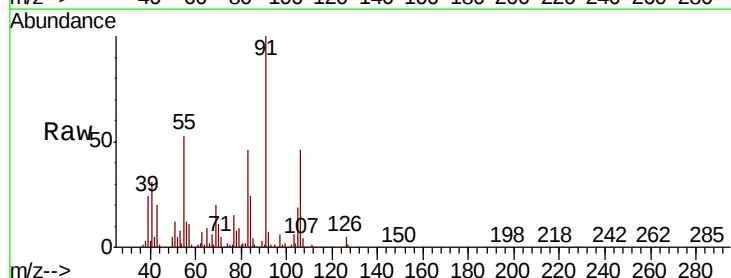
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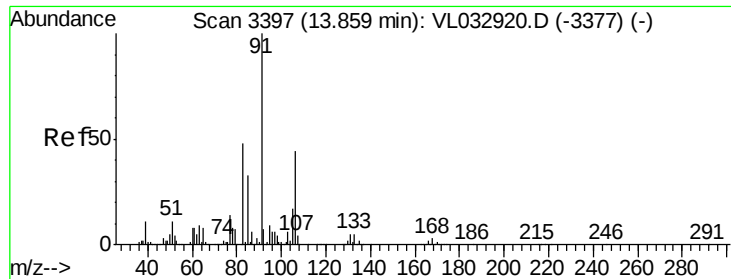
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#59
m/p-Xylene
Concen: 4.490 ppbv
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion: 91 Resp: 1440882
Ion Ratio Lower Upper
91 100
106 48.2 0.0 0.0#





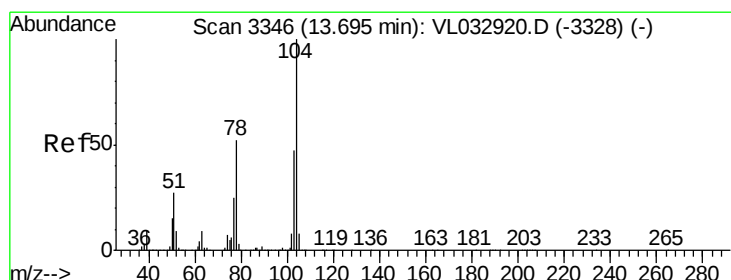
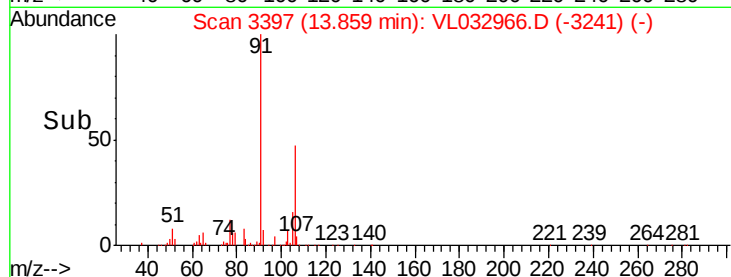
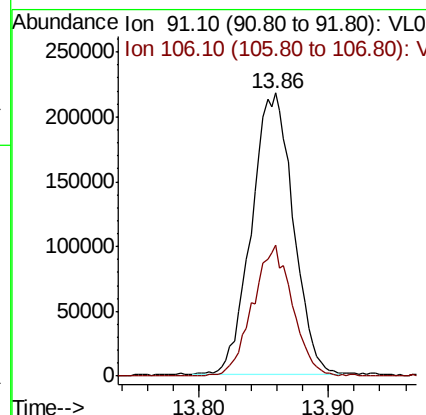
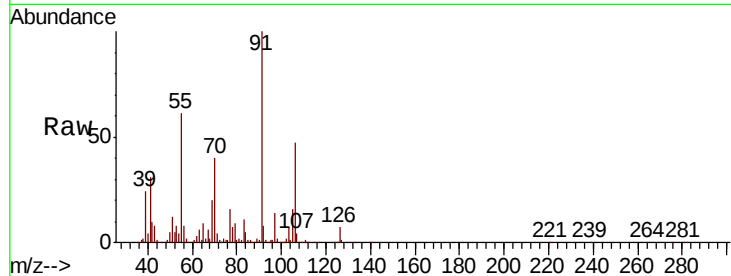
#60
o-Xylene
Concen: 1.501 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Instrument :
MSVOA_L
ClientSampled :
A55G1

Tot Ion	Ratio	Lower	Upper
91	100		
106	45.0	21.9	65.8

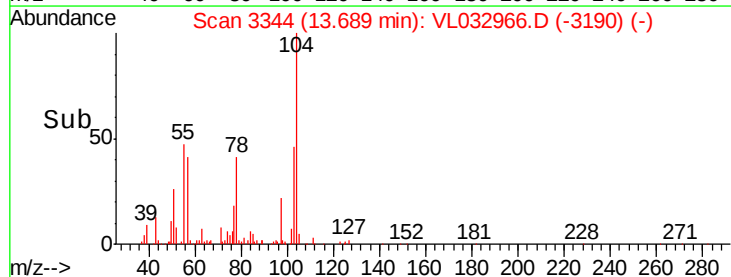
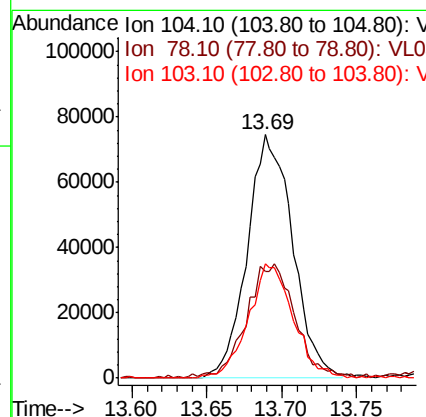
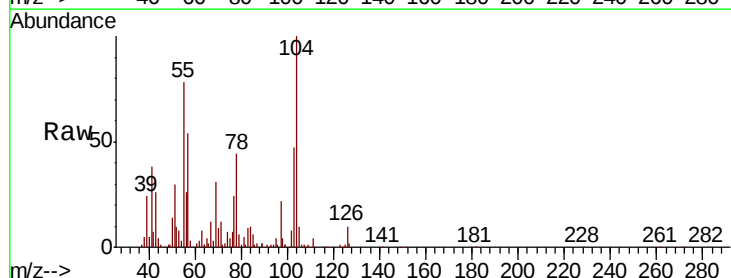
Manual Integrations
APPROVED

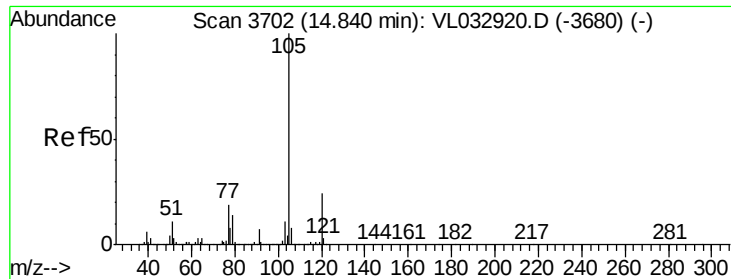
MMDadoda
12/13/2018 7:58:47 AM



#61
Styrene
Concen: 0.728 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. -0.01 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion	Ratio	Lower	Upper
104	100		
78	50.8	42.0	63.0
103	46.9	38.3	57.5





#62

Isopropylbenzene

Concen: 20.527 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

ClientSampleId :

A55G1

Tot Ion: 105 Resp: 9280314

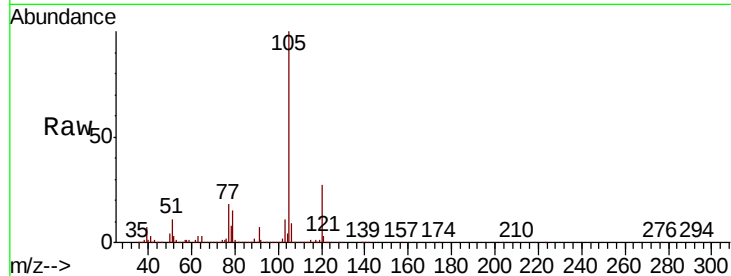
Ion Ratio Lower Upper

105 100

120 26.5 20.3 30.5

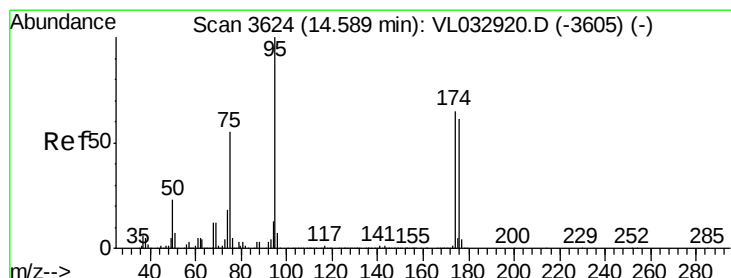
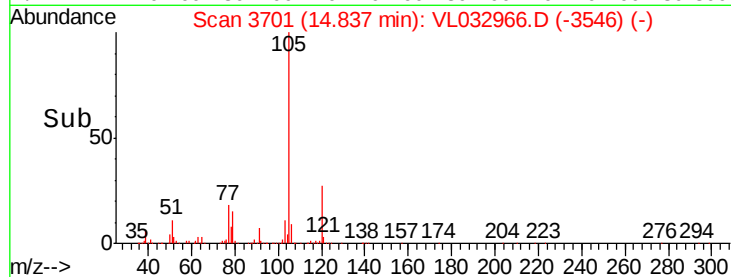
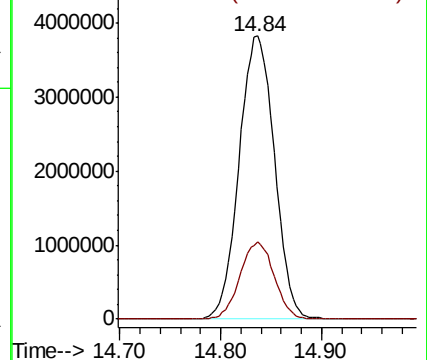
Manual Integrations
APPROVED

MMDadoda
12/13/2018 7:58:47 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.165 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

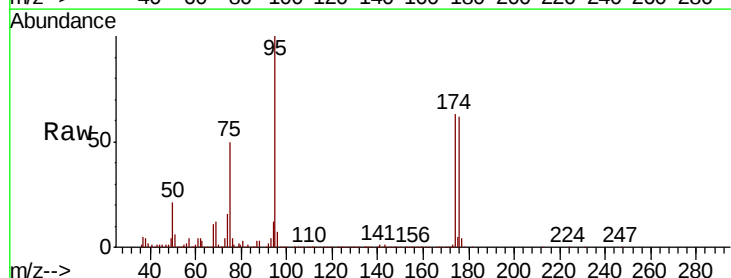
Tgt Ion: 95 Resp: 2491603

Ion Ratio Lower Upper

95 100

174 66.0 51.4 77.0

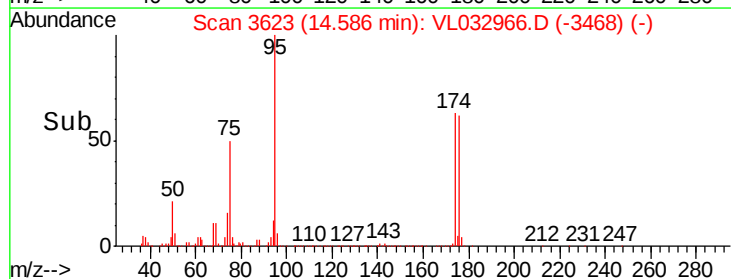
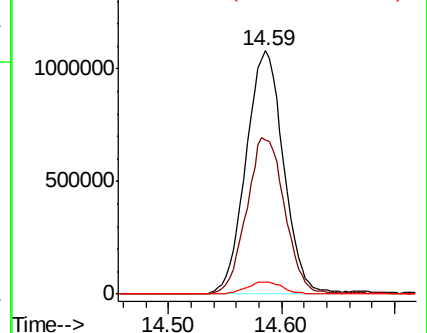
175 5.0 3.8 5.6

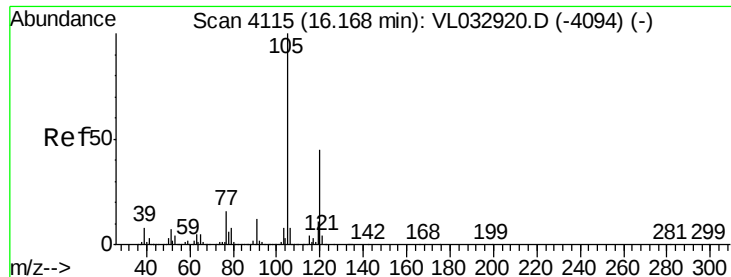


Abundance Ion 95.10 (94.80 to 95.80): V

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





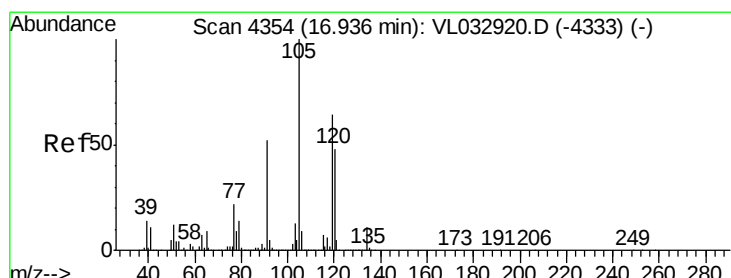
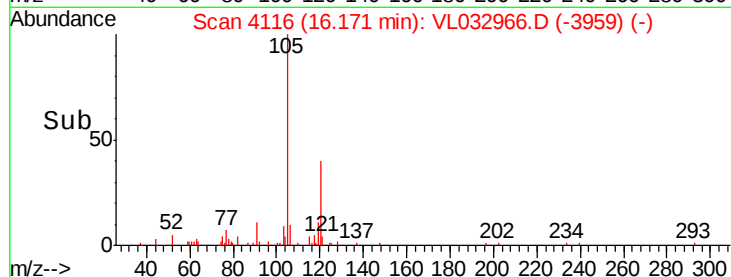
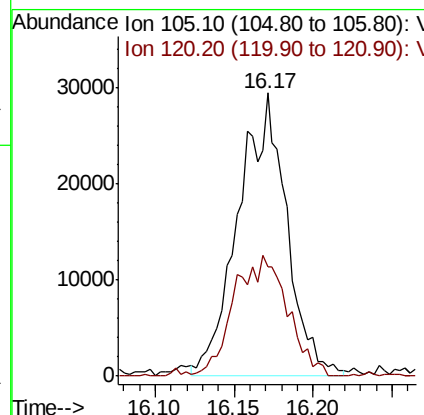
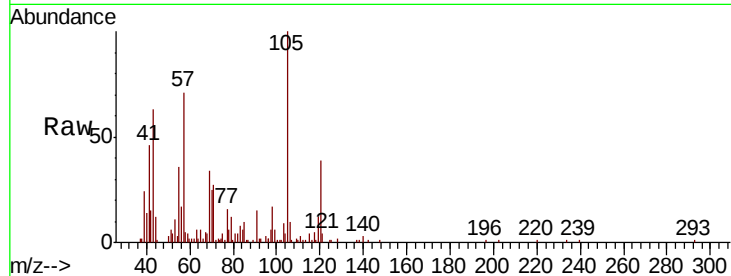
#73
 1,3,5-Trimethylbenzene
 Concen: 0.179 ppbv m
 RT: 16.17 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VL032966.D
 Acq: 11 Dec 2018 22:39

Instrument :
 MSVOA_L
 ClientSampleId :
 A55G1

Tot Ion:105 Resp: 63377
 Ion Ratio Lower Upper
 105 100
 120 38.8 36.0 54.0

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 7:58:47 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.599 ppbv m
 RT: 16.94 min Scan# 4354
 Delta R.T. 0.00 min
 Lab File: VL032966.D
 Acq: 11 Dec 2018 22:39

Tgt Ion:105 Resp: 238818
 Ion Ratio Lower Upper
 105 100
 120 39.4 38.6 58.0
 91 11.1 41.7 62.5#
 77 15.3 17.4 26.2#

