

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL033016.D
 Acq On : 18 Dec 2018 4:27
 Operator : SY/AP
 Sample : J6444-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 YT-CBA-LTM5-04

Manual Integrations
 APPROVED

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 12/19/2018 1:59:12 PM

Quant Time: Dec 19 16:03:48 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	1121070	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2715688	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2034499	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.58	95	2183392	14.53	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	145.30%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	83138	0.556	ppbv	94
3) Chlorodifluoromethane	3.02	51	58769m	0.692	ppbv	
4) Chloromethane	3.17	50	32347	0.654	ppbv	96
9) Propene	3.06	41	953752m	28.410	ppbv	
10) Heptane	8.25	43	29384	0.233	ppbv	99
11) Trichlorofluoromethane	4.01	101	41833	0.297	ppbv	99
13) Ethanol	3.66	45	548059	47.414	ppbv	96
15) Acetone	3.91	43	1002085	10.414	ppbv	97
19) Isopropyl Alcohol	4.04	45	156214	2.585	ppbv #	1
20) Methylene Chloride	4.42	84	199618	4.245	ppbv	96
26) Hexane	5.79	57	213833	2.038	ppbv #	50
34) 2-Butanone	5.34	43	55221	0.467	ppbv	98
35) Carbon Tetrachloride	7.14	117	14569m	0.068	ppbv	
36) Benzene	7.01	78	167696	0.840	ppbv	95
44) 2,2,4-Trimethylpentane	8.00	57	114740m	0.338	ppbv	
52) Tetrachloroethene	11.37	164	10838m	0.149	ppbv	
53) Toluene	9.96	91	19312667	91.165	ppbv	87
58) Ethyl Benzene	12.87	91	61259	0.282	ppbv	89
59) m/p-Xylene	13.13	91	224312m	1.140	ppbv	
60) o-Xylene	13.86	91	67730	0.341	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	108890m	0.445	ppbv	

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

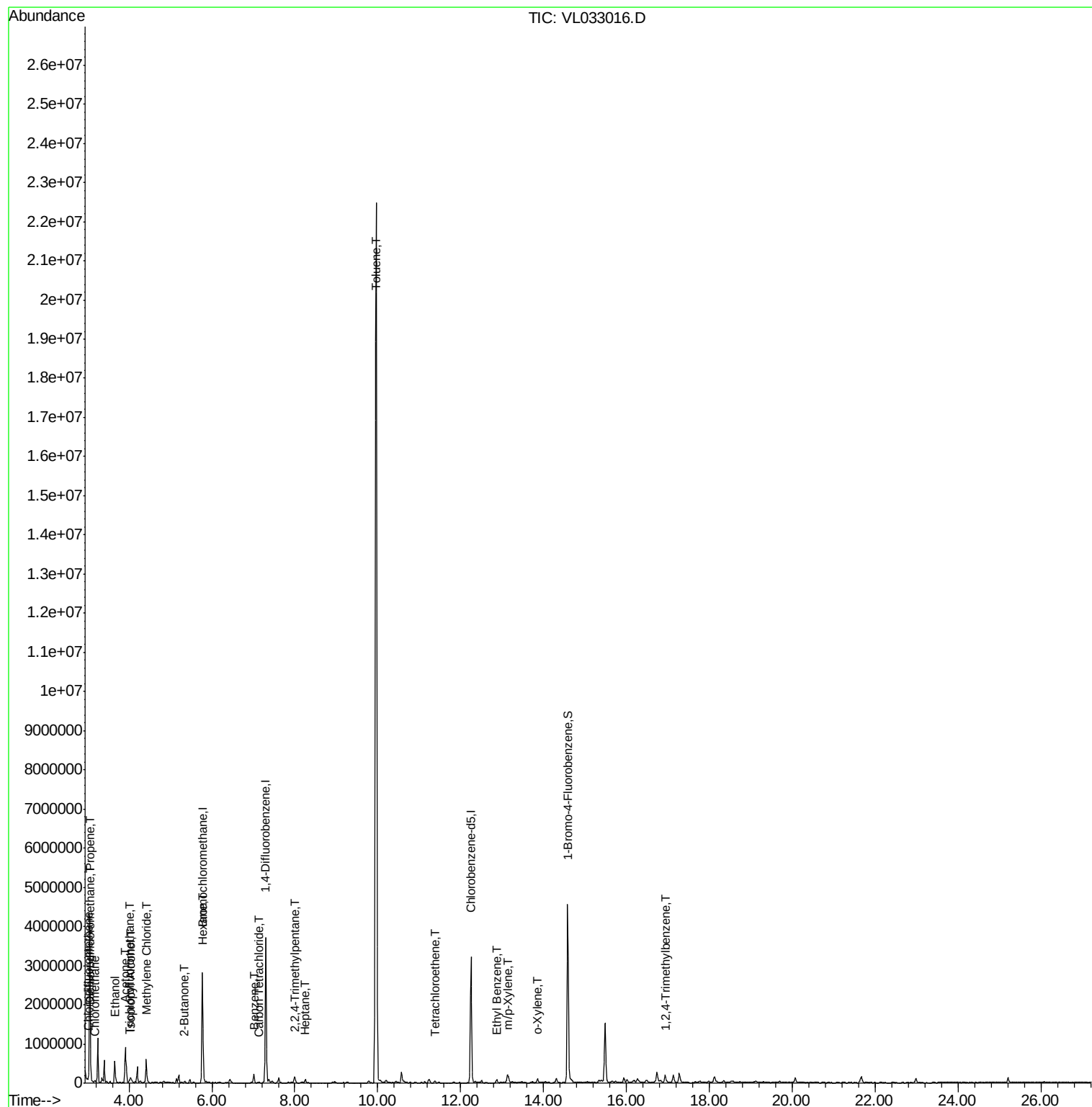
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121718\
Data File : VL033016.D
Acq On : 18 Dec 2018 4:27
Operator : SY/AP
Sample : J6444-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

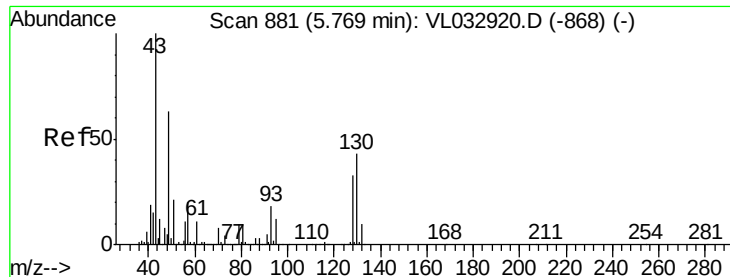
Instrument :
MSVOA_L
ClientSampleId :
YT-CBA-LTM5-04

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Quant Time: Dec 19 16:03:48 2018
Quant Method : Z:\V0ASRV\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# 880

Delta R.T. -0.00 min

Lab File: VL033016.D

Acq: 18 Dec 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

YT-CBA-LTM5-04

Tot Ion: 49 Resp: 1121070

Ion Ratio Lower Upper

49 100

128 53.5 26.3 78.8

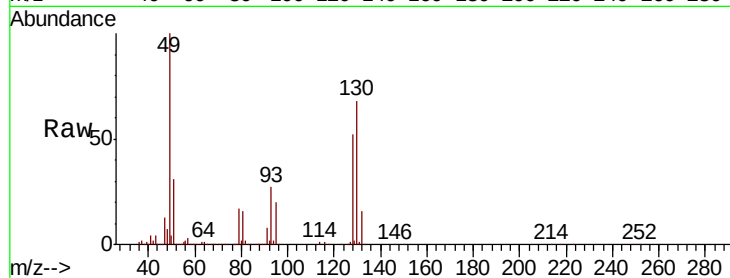
130 68.3 33.9 101.7

Manual Integrations

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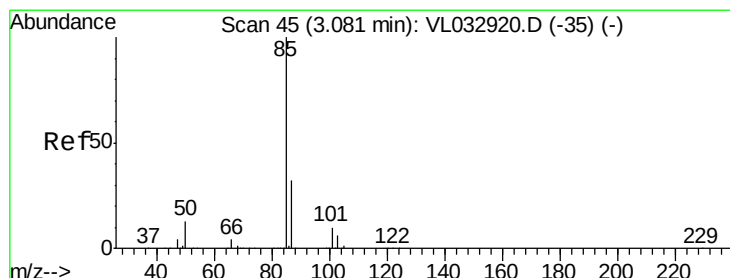
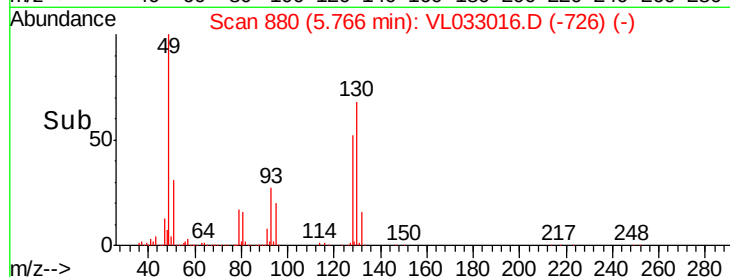
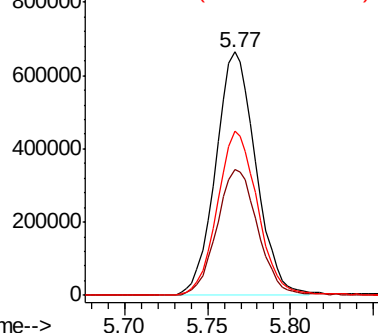
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.556 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL033016.D

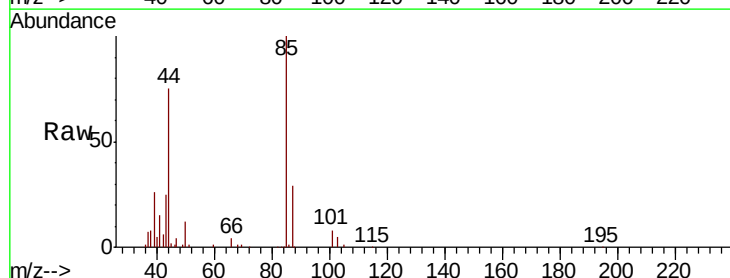
Acq: 18 Dec 2018 4:27

Tgt Ion: 85 Resp: 83138

Ion Ratio Lower Upper

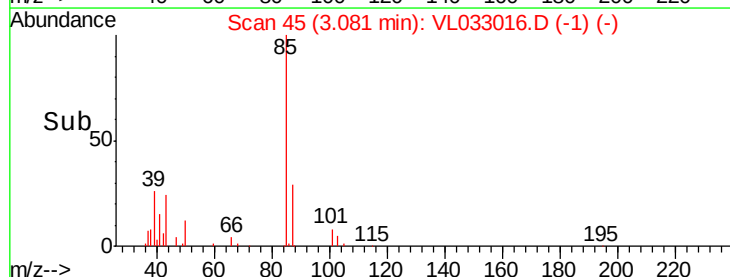
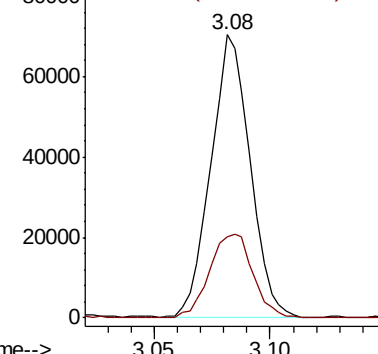
85 100

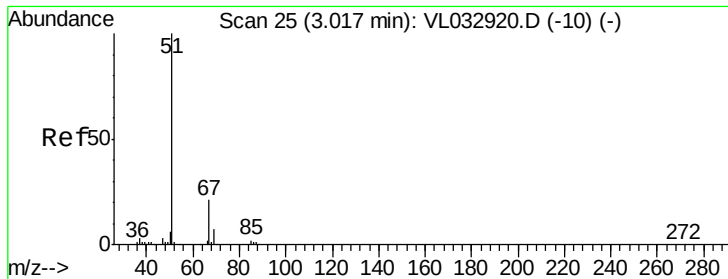
87 28.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.692 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL033016.D

Acq: 18 Dec 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

YT-CBA-LTM5-04

Tot Ion: 51 Resp: 58769

Ion Ratio Lower Upper

51 100

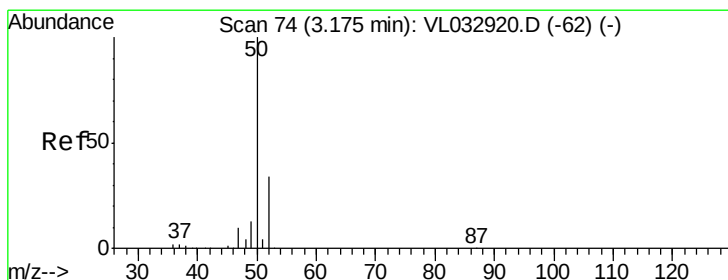
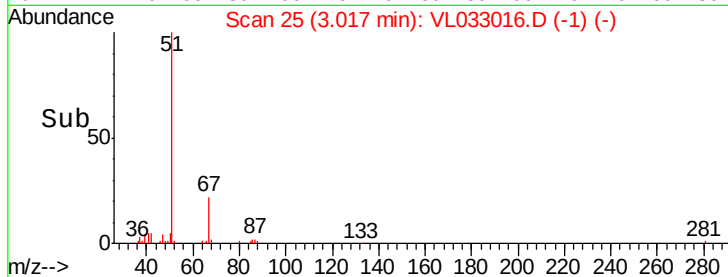
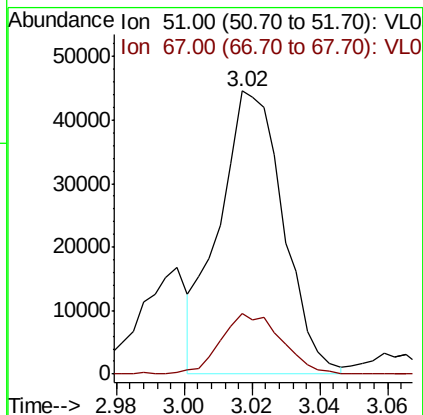
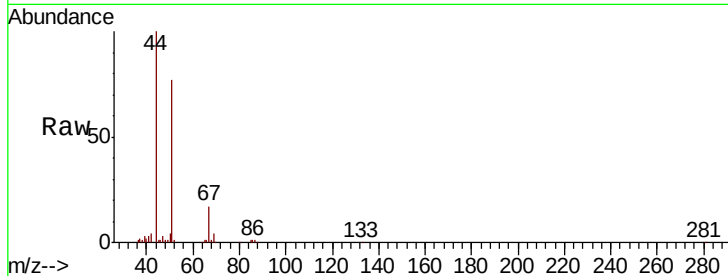
67 20.3 16.8 25.2

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#4

Chloromethane

Concen: 0.654 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL033016.D

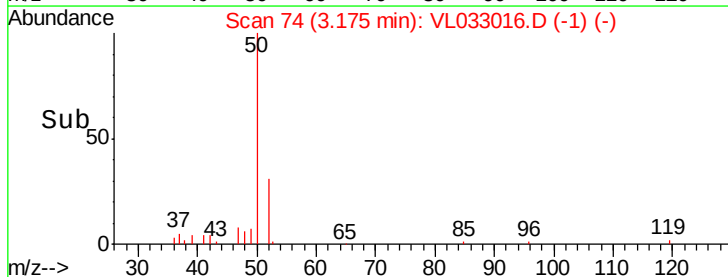
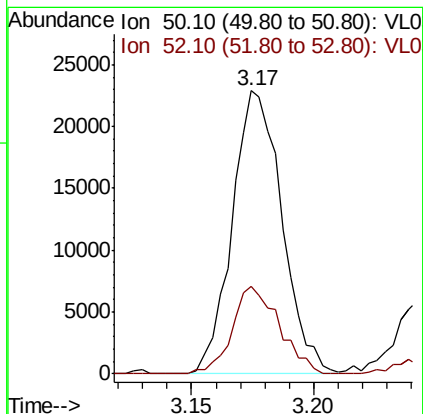
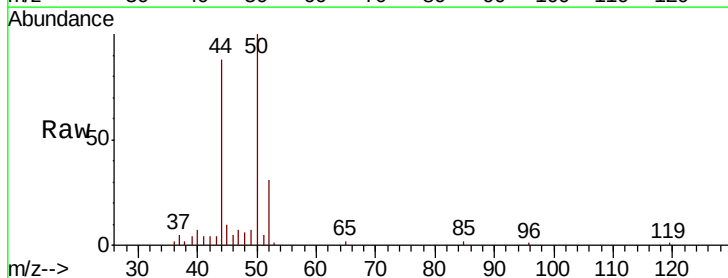
Acq: 18 Dec 2018 4:27

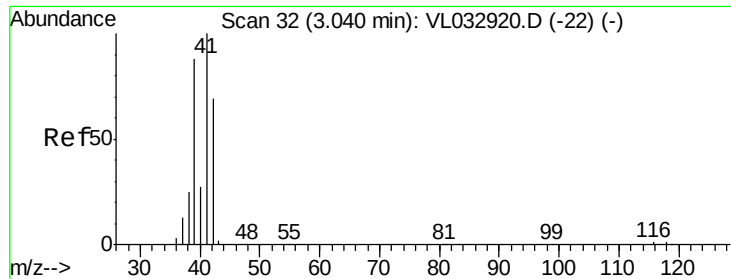
Tgt Ion: 50 Resp: 32347

Ion Ratio Lower Upper

50 100

52 32.0 27.3 40.9





#9

Propene

Concen: 28.410 ppbv m

RT: 3.06 min Scan# 37

Delta R.T. 0.02 min

Lab File: VL033016.D

Acq: 18 Dec 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

YT-CBA-LTM5-04

Tot Ion: 41 Resp: 953752

Ion Ratio Lower Upper

41 100

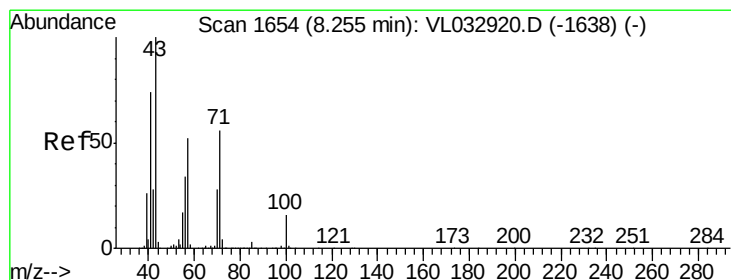
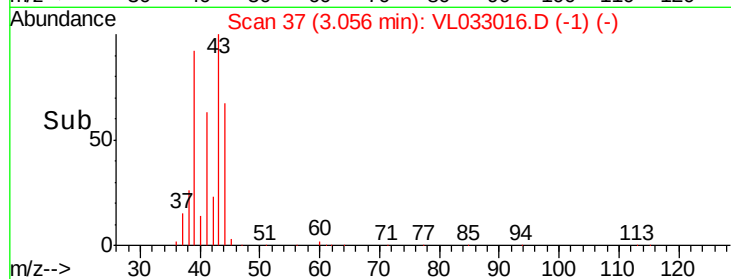
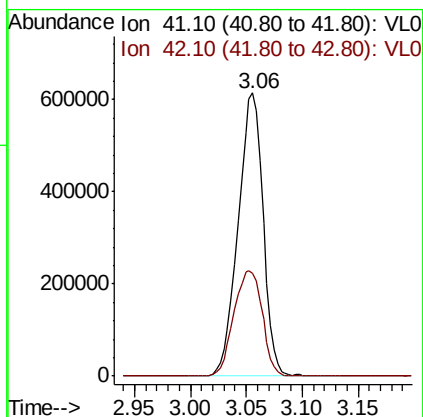
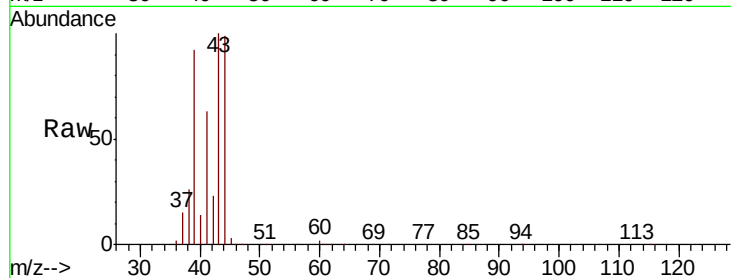
42 20.7 56.2 84.2#

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#10

Heptane

Concen: 0.233 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL033016.D

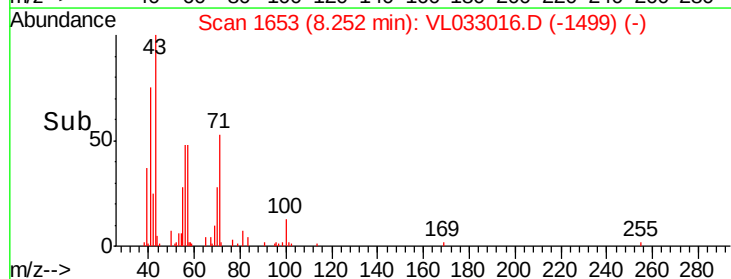
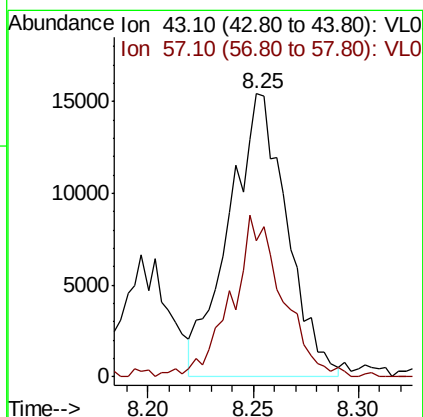
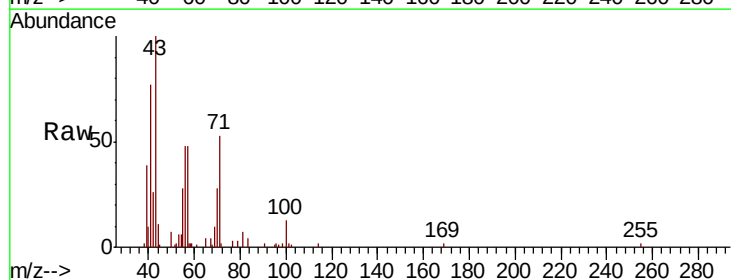
Acq: 18 Dec 2018 4:27

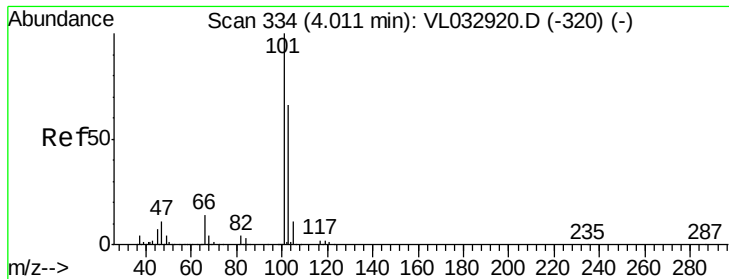
Tgt Ion: 43 Resp: 29384

Ion Ratio Lower Upper

43 100

57 51.8 41.8 62.6





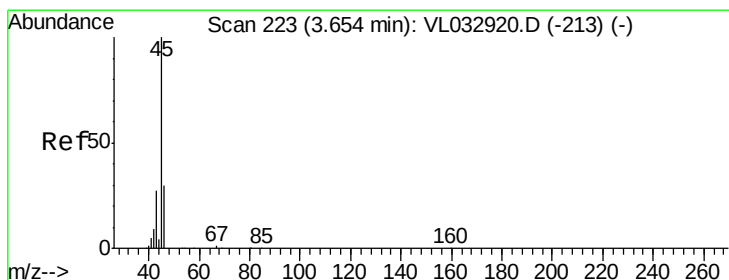
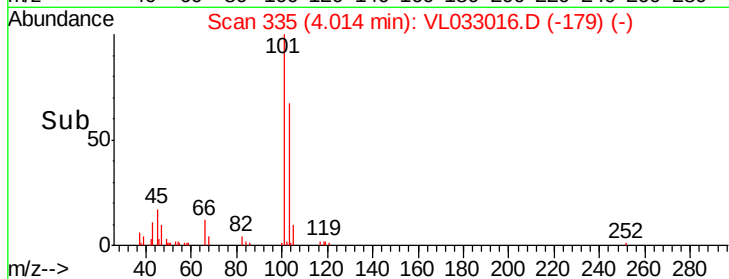
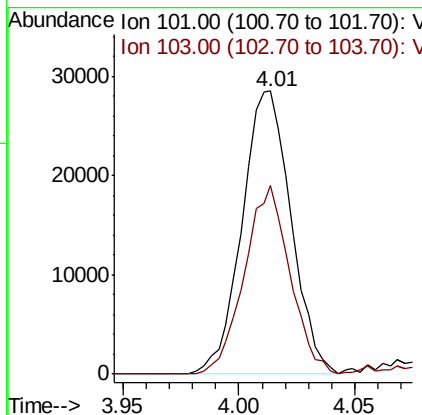
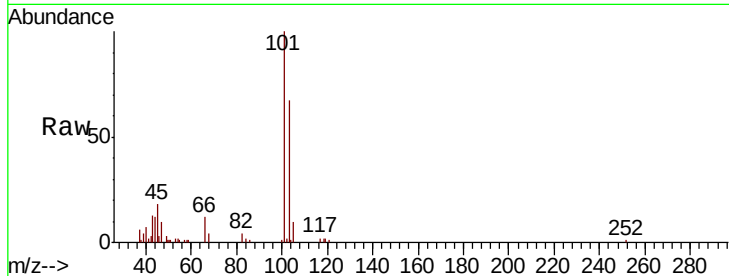
#11
 Trichlorofluoromethane
 Concen: 0.297 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL033016.D
 Acq: 18 Dec 2018 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 YT-CBA-LTM5-04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		41833		
103	66.8	52.7	79.1		

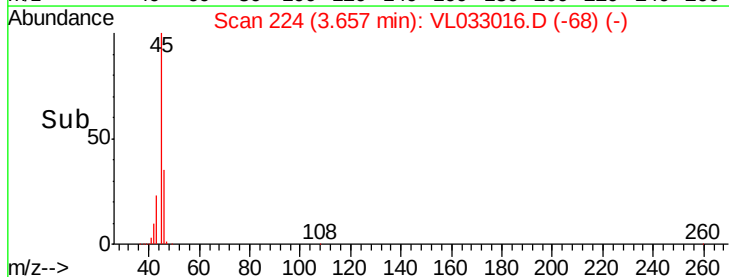
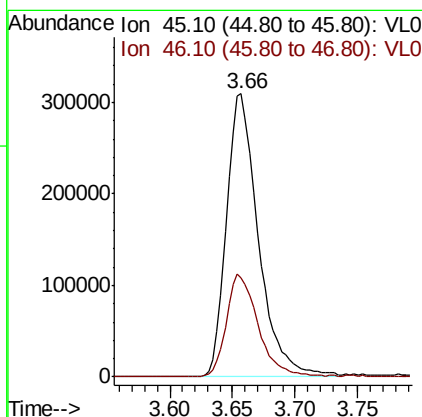
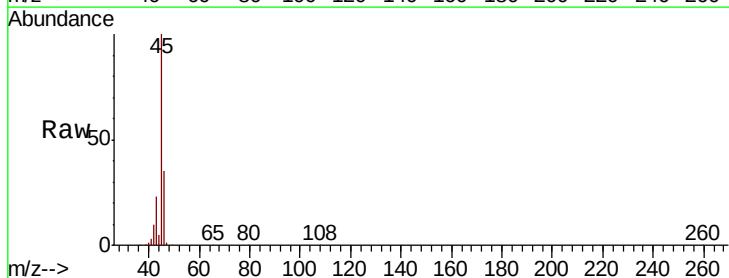
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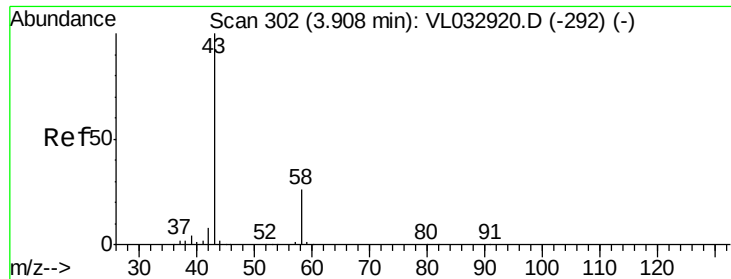
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#13
 Ethanol
 Concen: 47.414 ppbv
 RT: 3.66 min Scan# 224
 Delta R.T. 0.00 min
 Lab File: VL033016.D
 Acq: 18 Dec 2018 4:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		548059		
46	36.8	13.8	55.4		





#15

Acetone

Concen: 10.414 ppbv

RT: 3.91 min Scan# 302

Delta R.T. -0.00 min

Lab File: VL033016.D

Acq: 18 Dec 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

YT-CBA-LTM5-04

Tot Ion: 43 Resp: 1002085

Ion Ratio Lower Upper

43 100

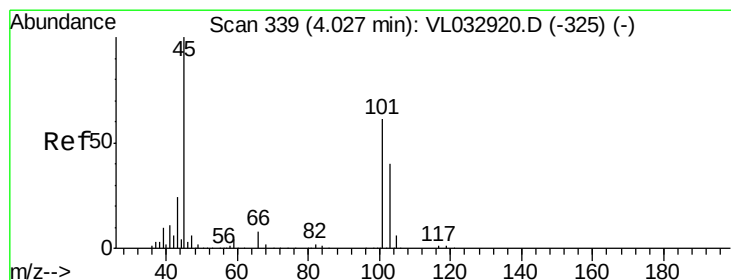
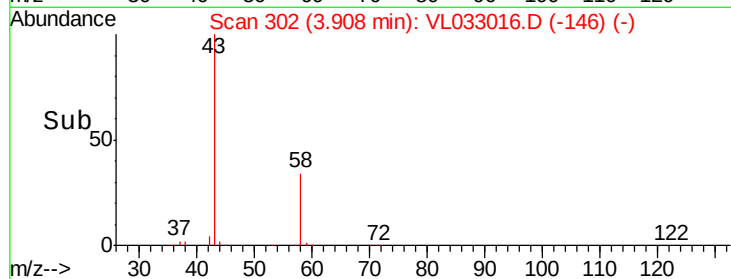
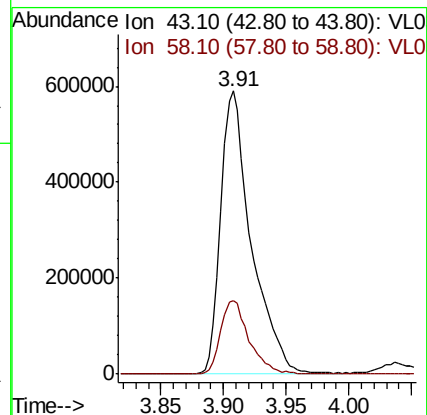
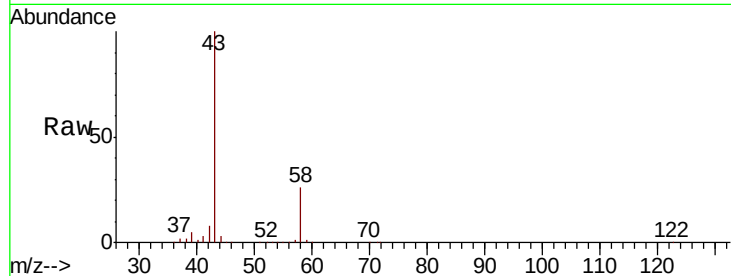
58 24.2 20.6 30.8

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 2.585 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL033016.D

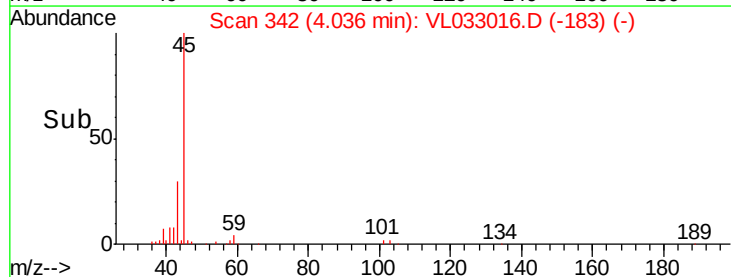
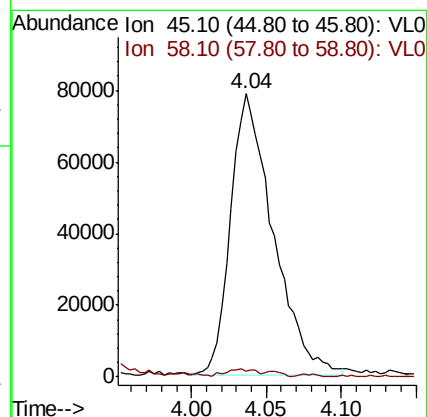
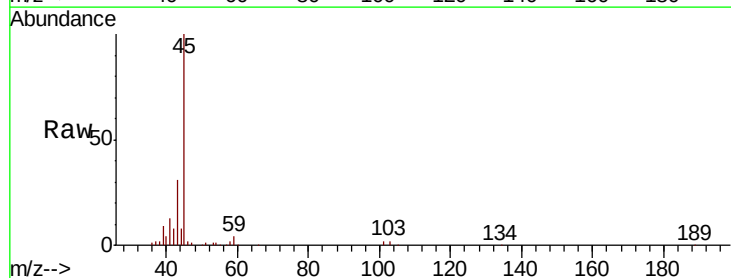
Acq: 18 Dec 2018 4:27

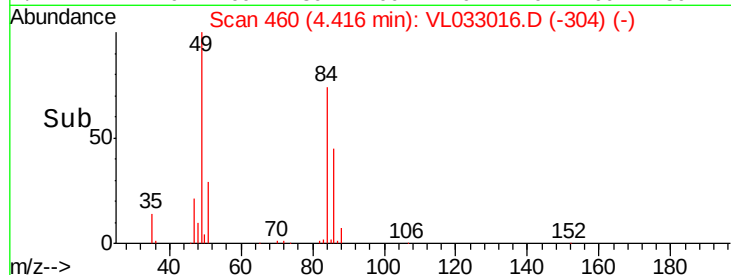
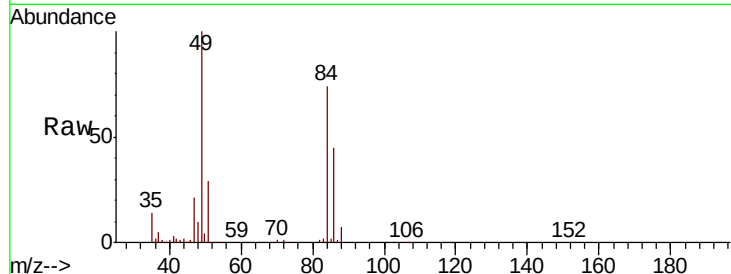
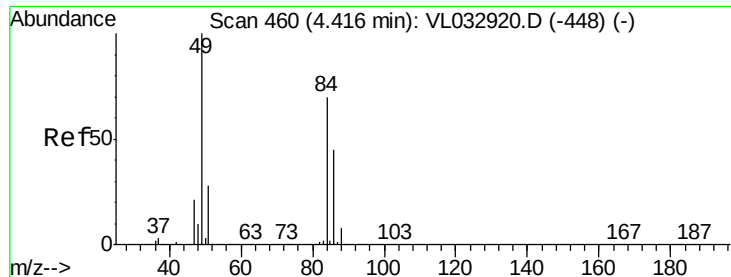
Tgt Ion: 45 Resp: 156214

Ion Ratio Lower Upper

45 100

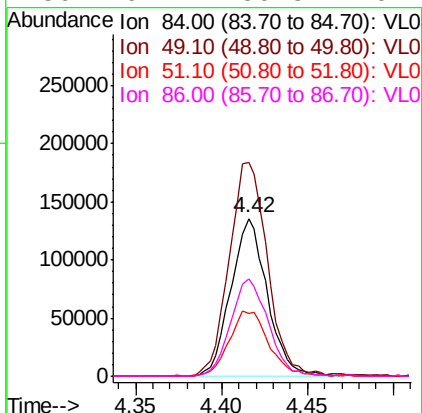
58 156.5 1.4 2.2#





#20
Methylene Chloride
Concen: 4.245 ppbv
RT: 4.42 min Scan# 460
Delta R.T. -0.00 min
Lab File: VL033016.D
Acq: 18 Dec 2018 4:27

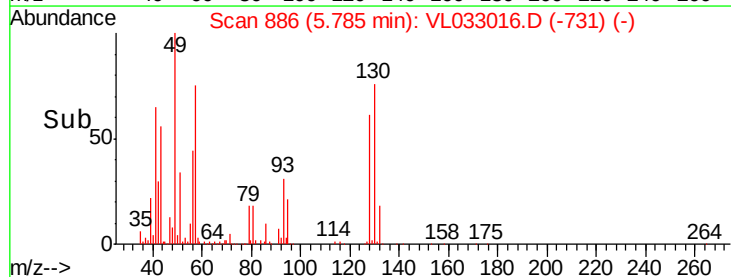
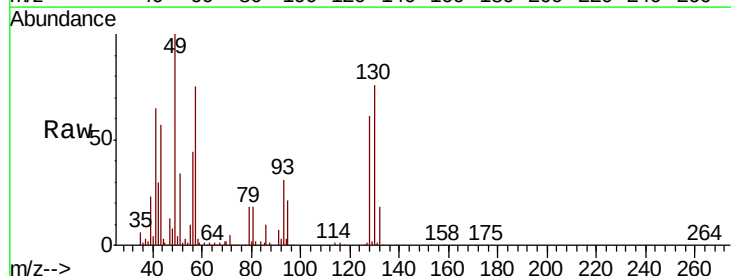
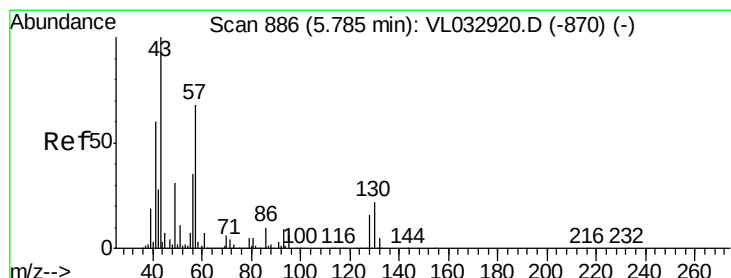
Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	135.2	113.8	170.8		
51	39.7	31.8	47.8		
86	61.4	50.8	76.2		



Instrument :
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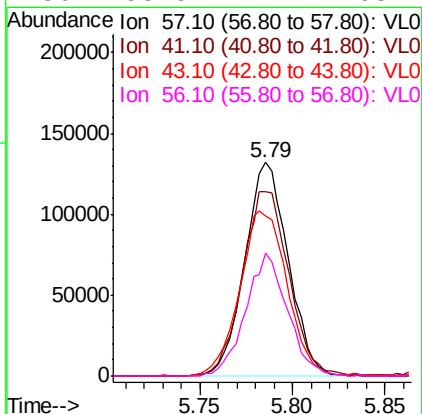
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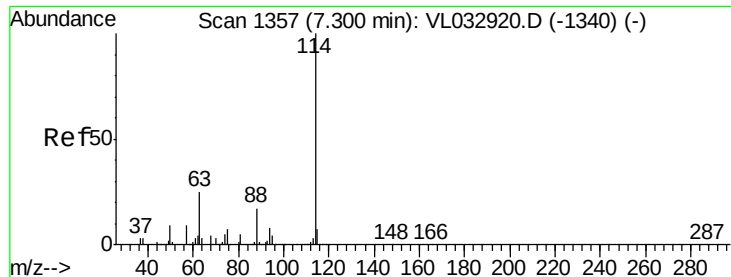
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#26
Hexane
Concen: 2.038 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL033016.D
Acq: 18 Dec 2018 4:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	93.4	72.2	108.2		
43	85.9	171.9	257.9		
56	55.5	42.2	63.2		





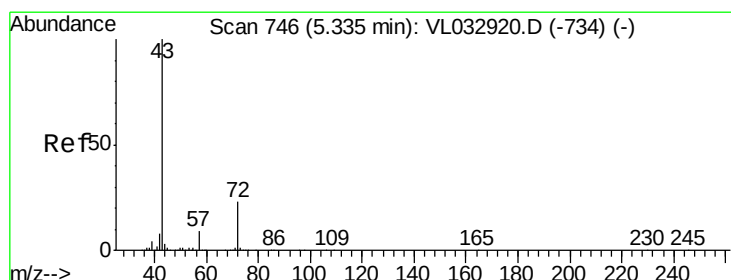
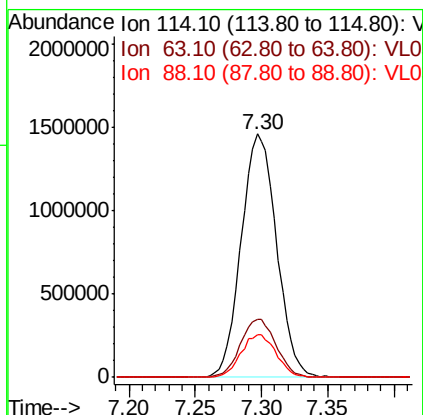
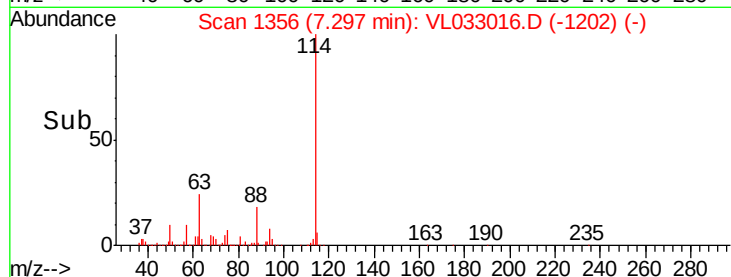
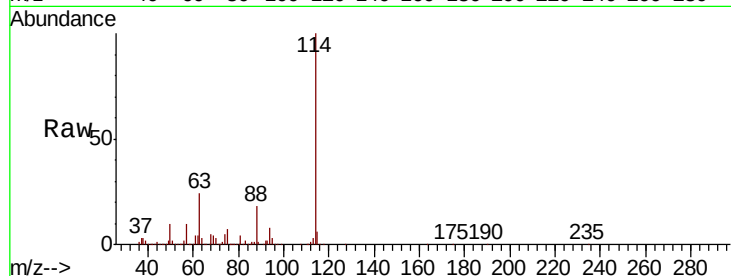
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033016.D
 Acq: 18 Dec 2018 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 YT-CBA-LTM5-04

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.2	20.1	30.1
88	17.5	14.2	21.4

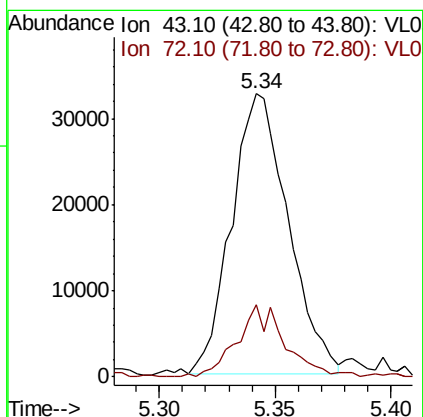
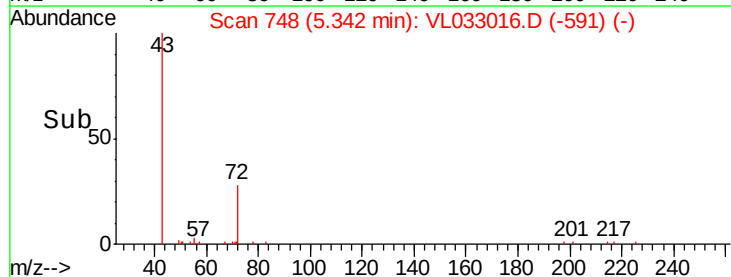
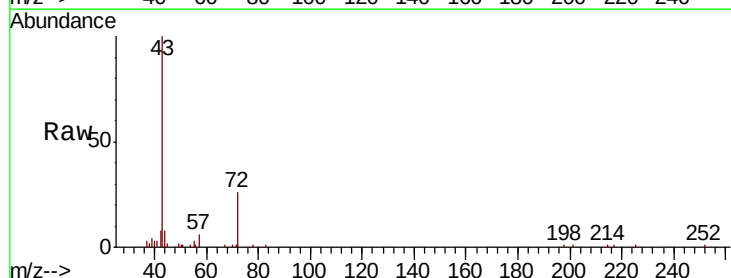
Manual Integrations
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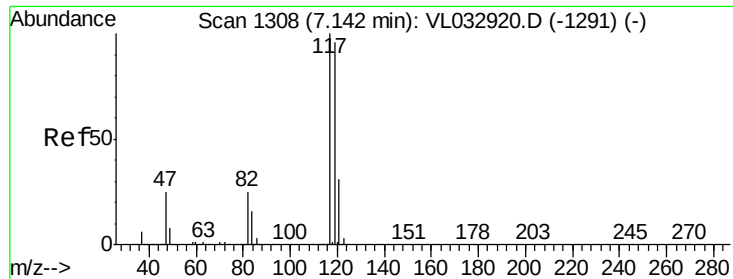
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#34
 2-Butanone
 Concen: 0.467 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.01 min
 Lab File: VL033016.D
 Acq: 18 Dec 2018 4:27

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.8	28.2





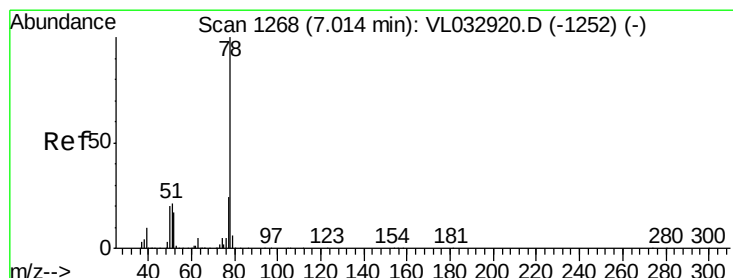
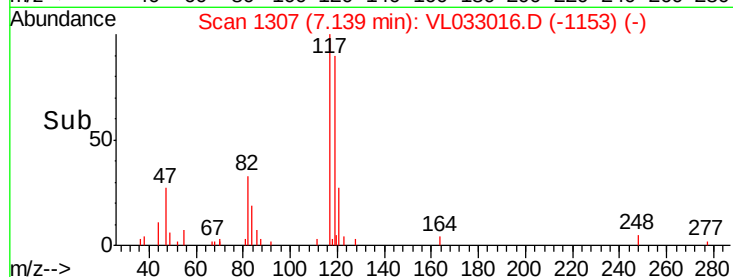
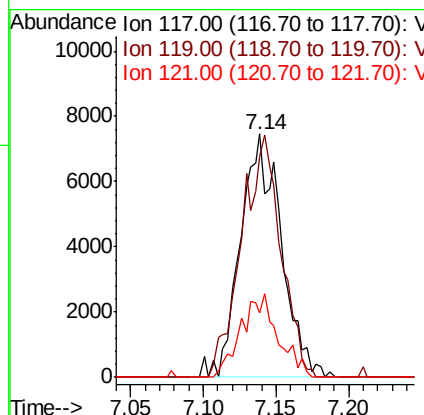
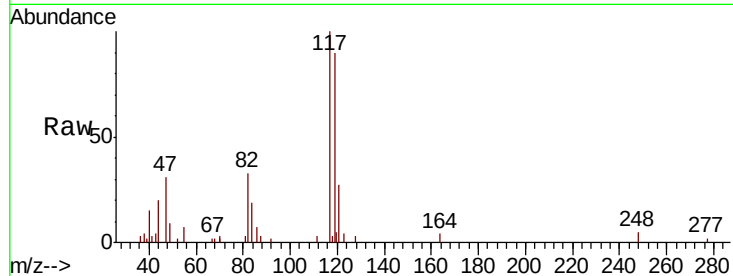
#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 7.14 min Scan# 1307
Delta R.T. -0.00 min
Lab File: VL033016.D
Acq: 18 Dec 2018 4:27

Instrument :
MSVOA_L
ClientSampleId :
YT-CBA-LTM5-04

Tot Ion	Ratio	Lower	Upper
117	100		
119	90.5	76.5	114.7
121	26.7	24.5	36.7

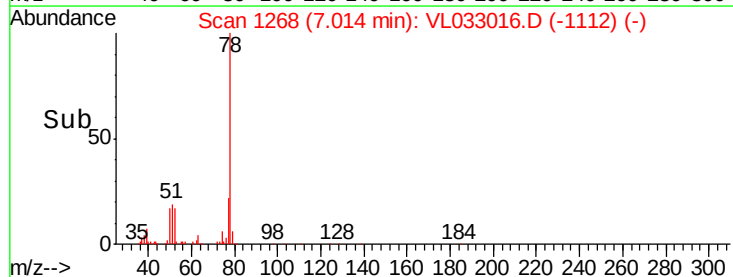
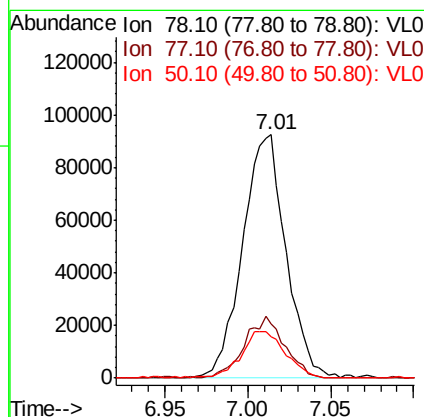
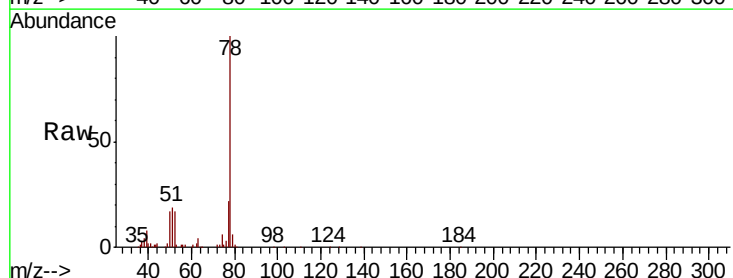
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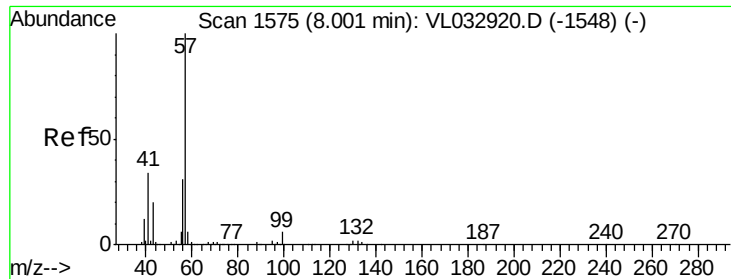
MMDadoda
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#36
Benzene
Concen: 0.840 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. -0.00 min
Lab File: VL033016.D
Acq: 18 Dec 2018 4:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.9	28.3
50	16.9	16.1	24.1





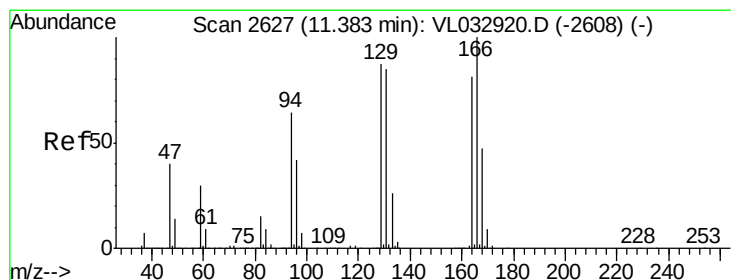
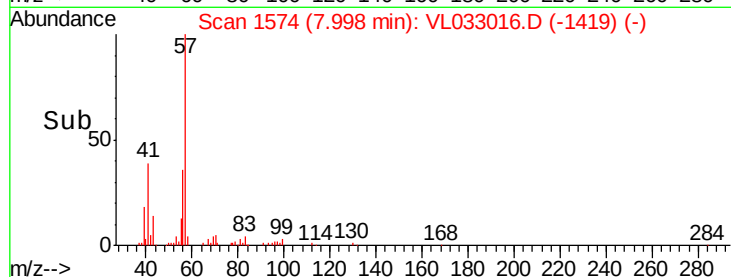
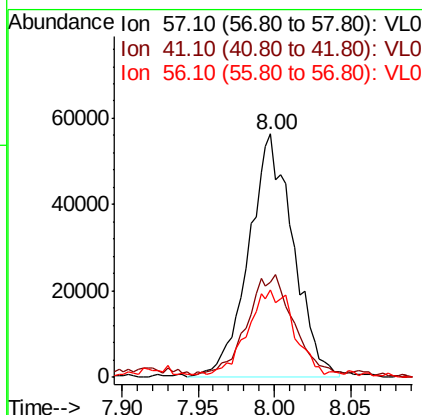
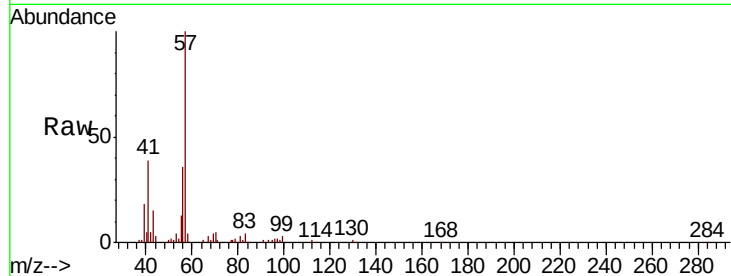
#44
2,2,4-Trimethylpentane
Concen: 0.338 ppbv m
RT: 8.00 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VL033016.D
Acq: 18 Dec 2018 4:27

Instrument :
MSVOA_L
ClientSampleId :
YT-CBA-LTM5-04

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.0	40.4#
56	39.4	24.6	37.0#

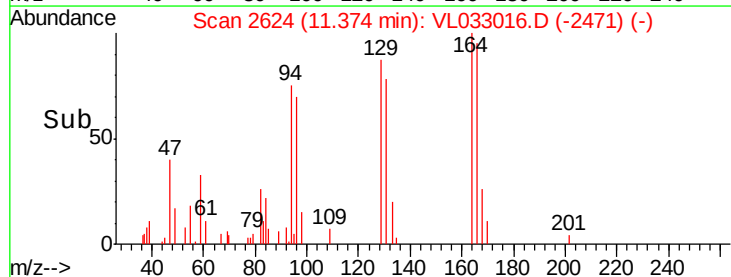
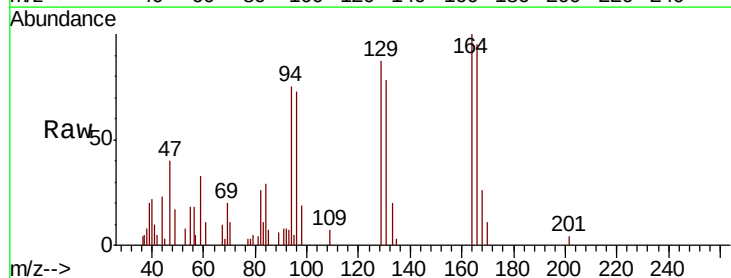
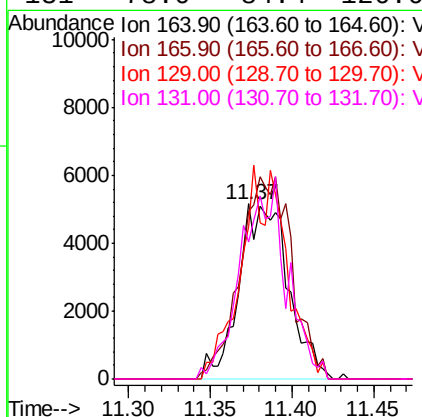
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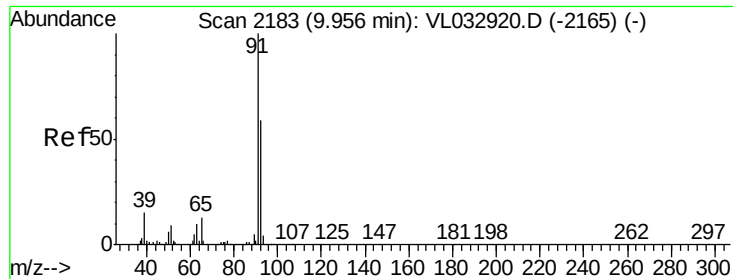
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#52
Tetrachloroethene
Concen: 0.149 ppbv m
RT: 11.37 min Scan# 2624
Delta R.T. -0.01 min
Lab File: VL033016.D
Acq: 18 Dec 2018 4:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	95.5	98.8	148.2#
129	87.0	85.5	128.3
131	78.0	84.4	126.6#





#53

Toluene

Concen: 91.165 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. 0.00 min

Lab File: VL033016.D

Acq: 18 Dec 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

YT-CBA-LTM5-04

Tot Ion: 91 Resp: 19312667

Ion Ratio Lower Upper

91 100

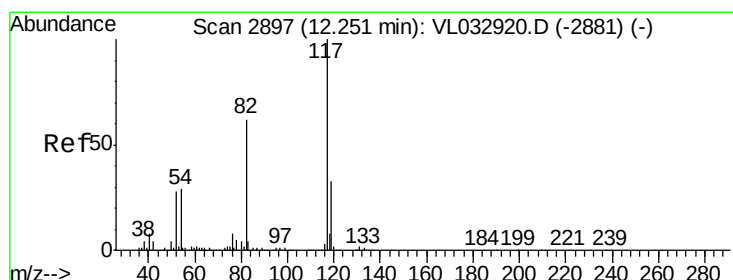
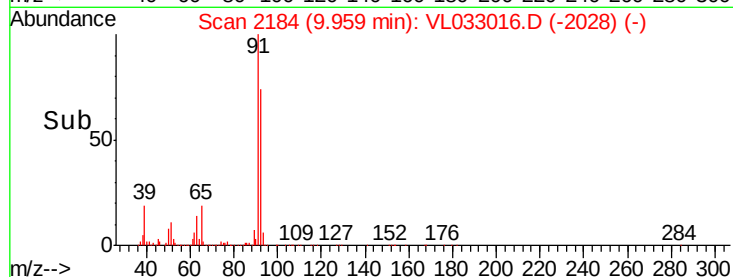
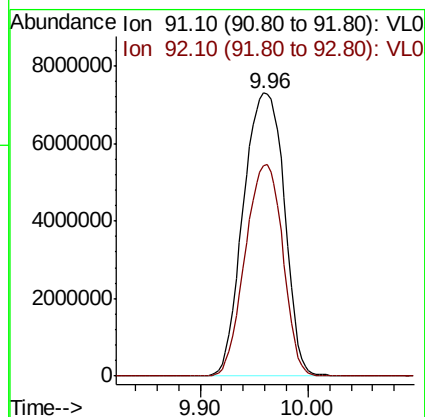
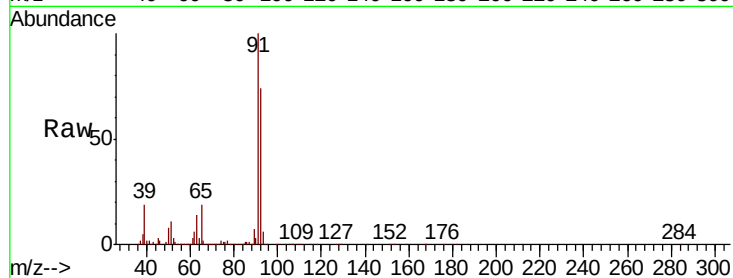
92 68.9 47.4 71.0

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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: VL033016.D

Acq: 18 Dec 2018 4:27

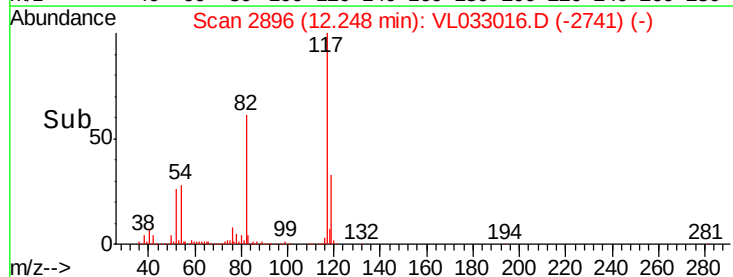
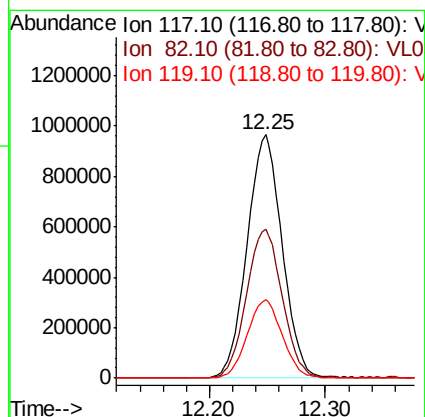
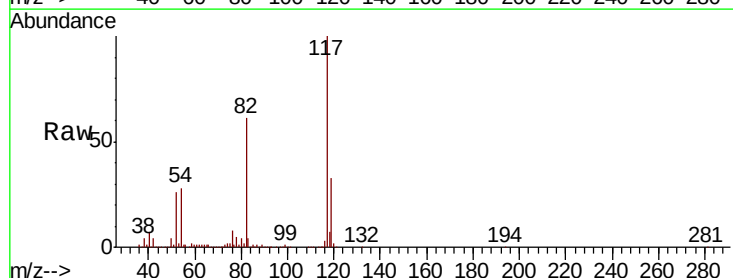
Tgt Ion: 117 Resp: 2034499

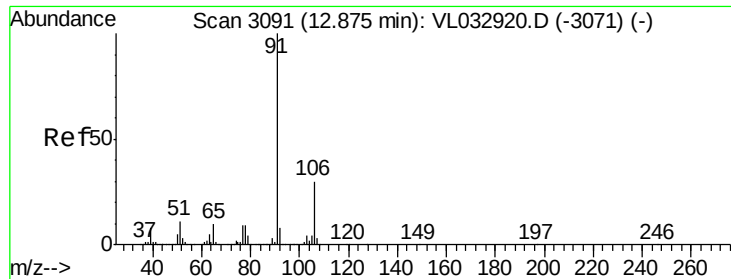
Ion Ratio Lower Upper

117 100

82 62.3 47.8 71.8

119 32.4 43.1 64.7#





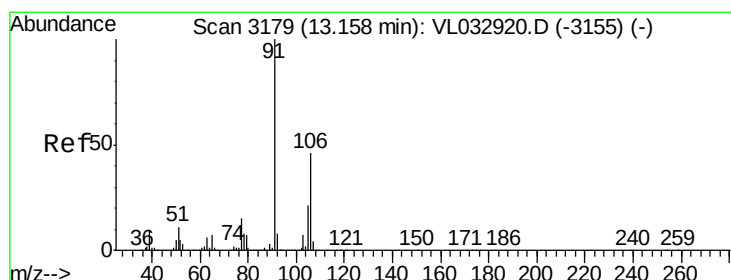
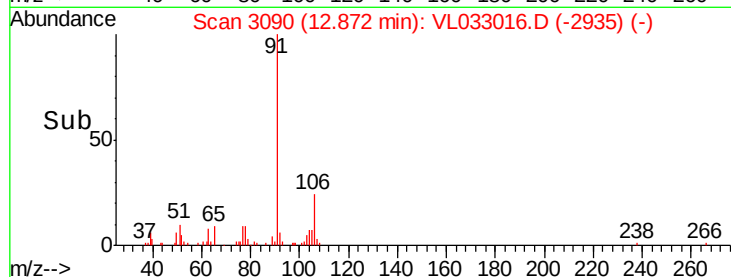
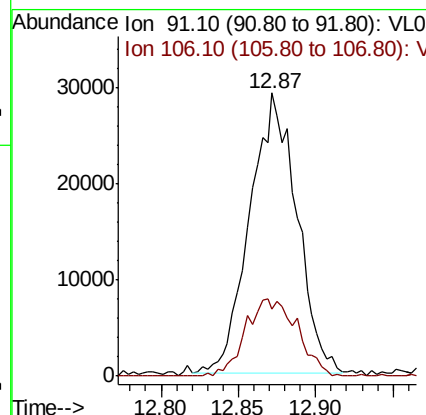
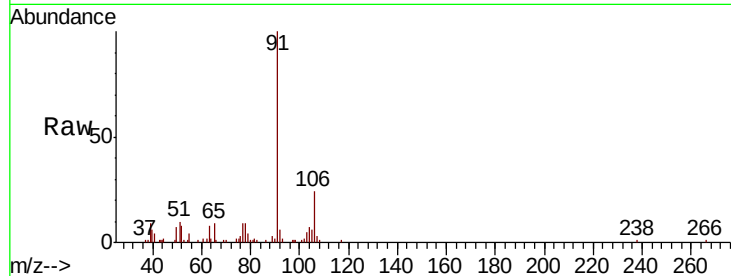
#58
Ethyl Benzene
Concen: 0.282 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL033016.D
Acq: 18 Dec 2018 4:27

Instrument :
MSVOA_L
ClientSampleId :
YT-CBA-LTM5-04

Tot Ion	91	Resp	61259
Ion Ratio	Lower	Upper	
91	100		
106	24.0	23.9	35.9

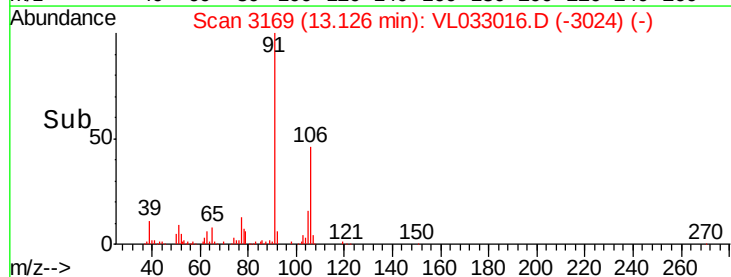
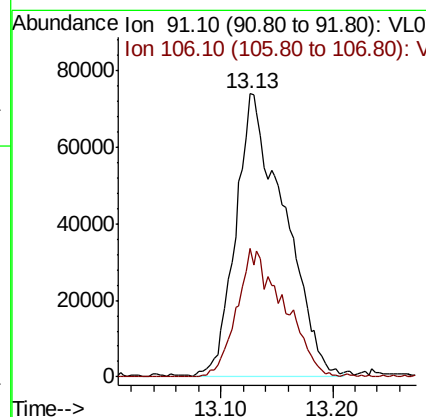
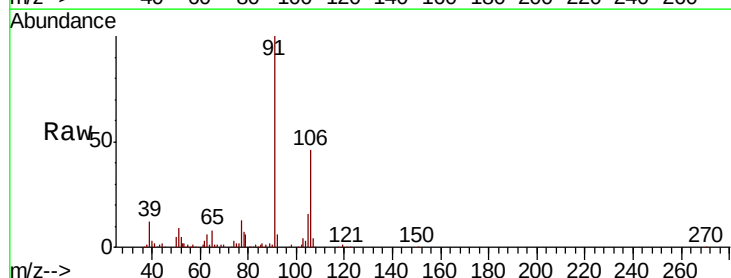
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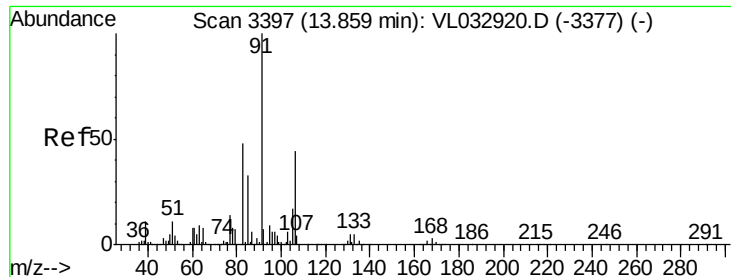
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#59
m/p-Xylene
Concen: 1.140 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL033016.D
Acq: 18 Dec 2018 4:27

Tgt Ion	91	Resp	224312
Ion Ratio	Lower	Upper	
91	100		
106	0.0	0.0	0.0





#60

o-Xylene

Concen: 0.341 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL033016.D

Acq: 18 Dec 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

YT-CBA-LTM5-04

Tot Ion: 91 Resp: 67730

Ion Ratio Lower Upper

91 100

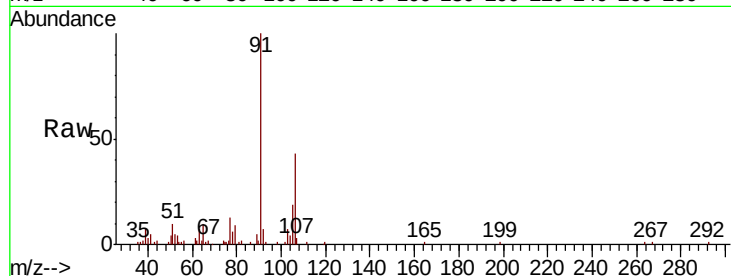
106 45.5 21.9 65.8

Manual Integrations

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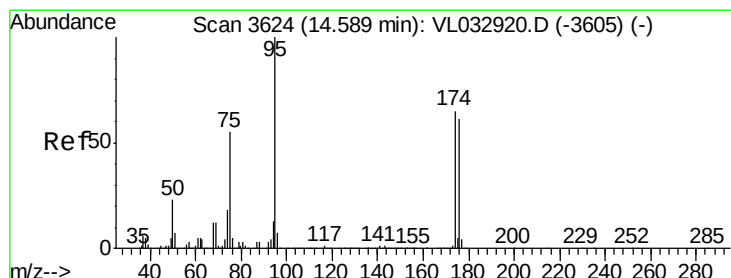
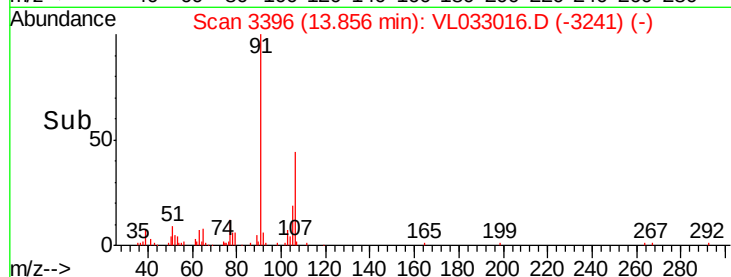
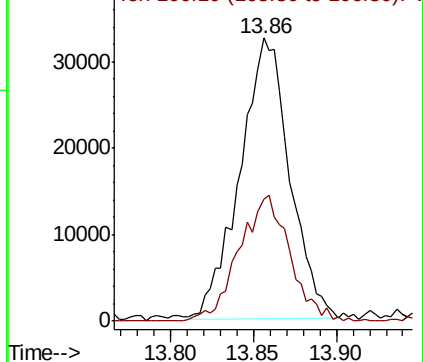
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 14.526 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL033016.D

Acq: 18 Dec 2018 4:27

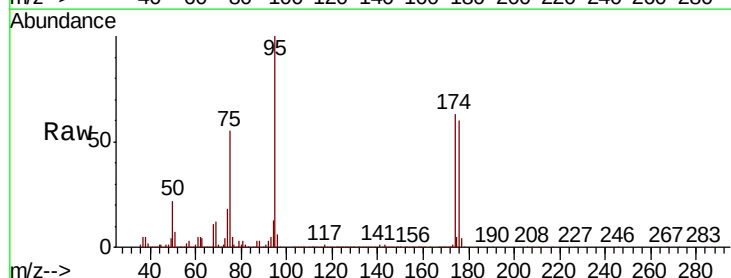
Tgt Ion: 95 Resp: 2183392

Ion Ratio Lower Upper

95 100

174 66.4 51.4 77.0

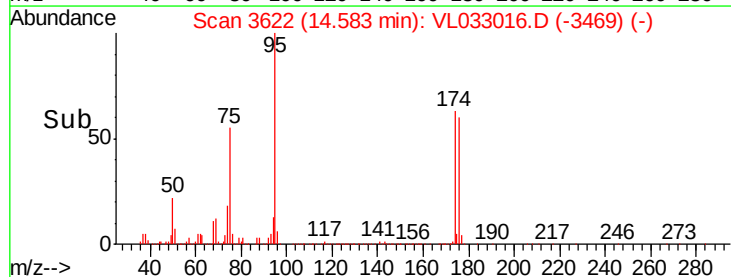
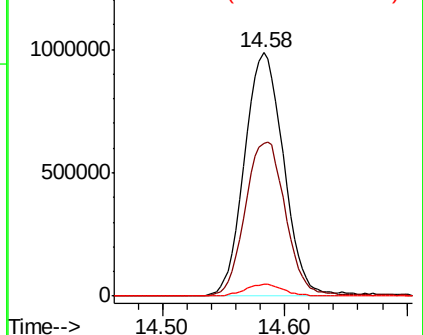
175 4.8 3.8 5.6

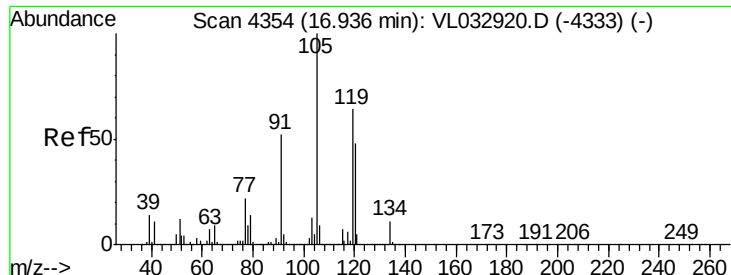


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.445 ppbv m
 RT: 16.94 min Scan# 4354
 Delta R.T. -0.00 min
 Lab File: VL033016.D
 Acq: 18 Dec 2018 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 YT-CBA-LTM5-04

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	40.4	38.6	58.0
91	12.3	41.7	62.5#
77	13.7	17.4	26.2#

Manual Integrations
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MMDadoda
 12/19/2018 1:59:12 PM

