

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033947.D
 Acq On : 24 Jun 2019 21:56
 Operator : SY/AP
 Sample : K3481-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-1DL

Manual Integrations
 APPROVED

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 7/1/2019 5:01:34 PM

Quant Time: Jun 25 09:40:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	1007307	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.27	114	2670183	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.21	117	2736670	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.55	95	2178187	9.69	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.04	41	11296m	0.255	ppbv	
10) Heptane	8.22	43	38156m	0.340	ppbv	
13) Ethanol	3.65	45	64038	4.436	ppbv	97
15) Acetone	3.89	43	1081540	7.362	ppbv	93
17) tert-Butyl alcohol	4.34	59	897700	7.817	ppbv	98
19) Isopropyl Alcohol	4.02	45	38648m	0.460	ppbv	
20) Methylene Chloride	4.39	84	30367m	0.530	ppbv	
26) Hexane	5.76	57	32483	0.319	ppbv #	41
34) 2-Butanone	5.32	43	105031	0.697	ppbv	95
36) Benzene	6.98	78	91510	0.449	ppbv	98
53) Toluene	9.92	91	294273	1.304	ppbv	100
58) Ethyl Benzene	12.83	91	170796	0.554	ppbv	100
59) m/p-Xylene	13.09	91	647122	2.306	ppbv	97
60) o-Xylene	13.82	91	338197	1.167	ppbv	97
61) Styrene	13.66	104	4459362	23.787	ppbv	96
62) Isopropylbenzene	14.79	105	144500	0.370	ppbv	98
64) n-propylbenzene	15.69	120	30356	0.304	ppbv	92

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

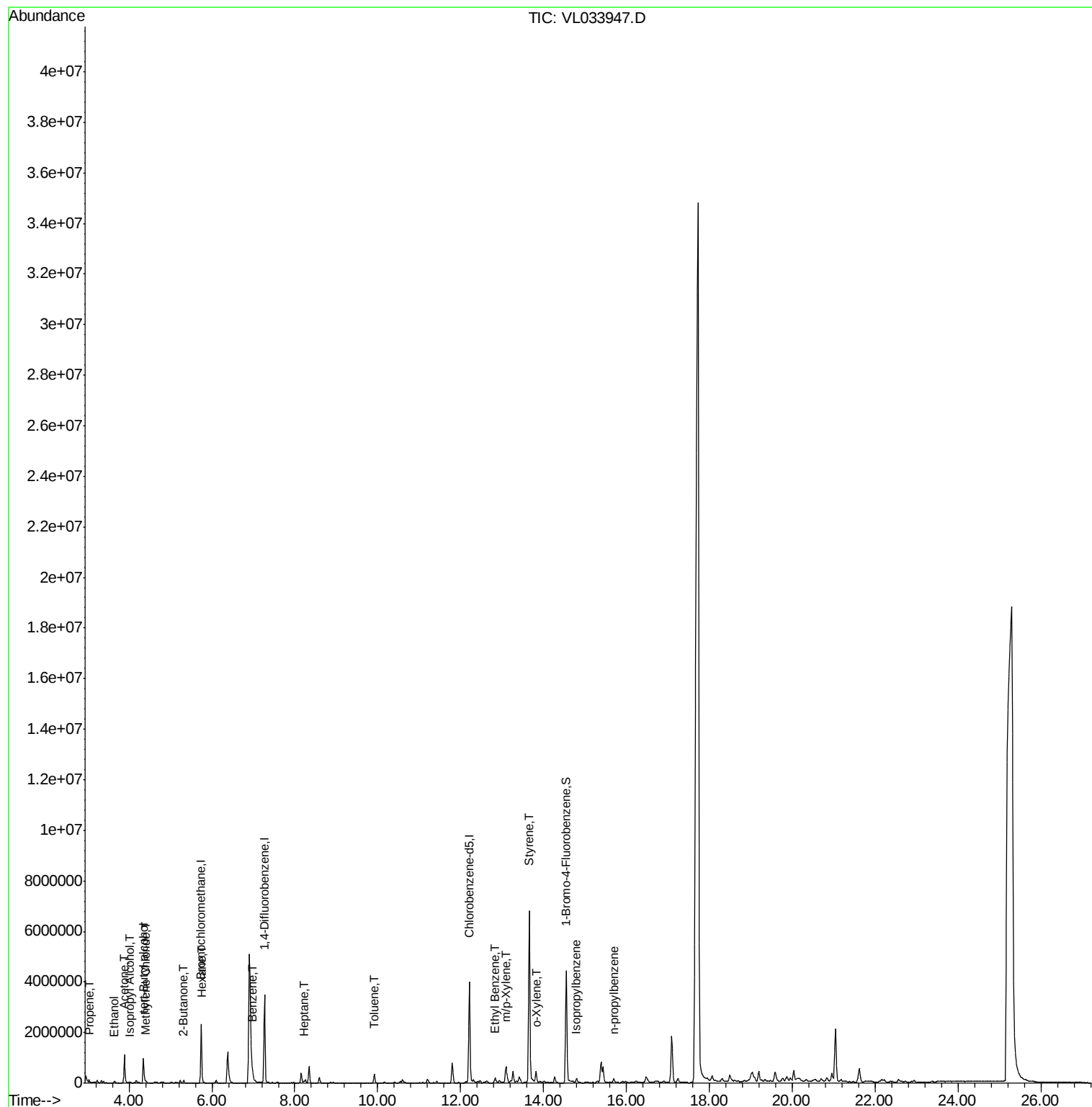
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062419\
Data File : VL033947.D
Acq On : 24 Jun 2019 21:56
Operator : SY/AP
Sample : K3481-03DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

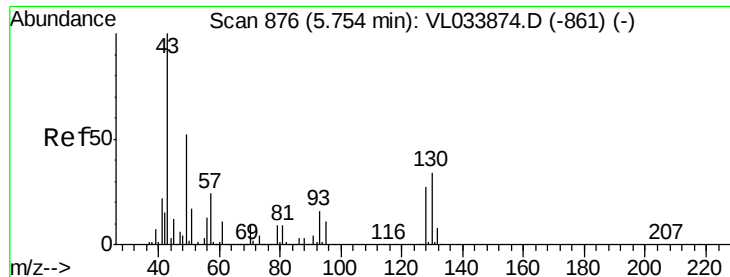
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1DL

Manual Integrations
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Quant Time: Jun 25 09:40:12 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

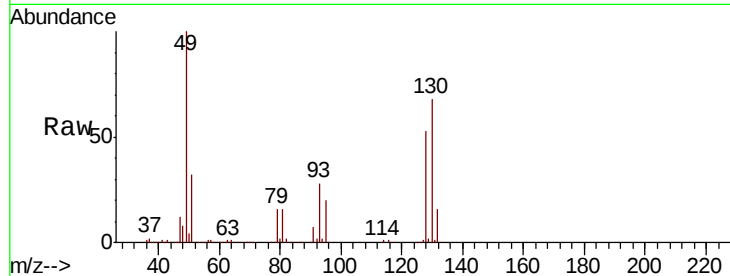
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.74 min Scan# 872
 Delta R.T. -0.01 min
 Lab File: VL033947.D
 Acq: 24 Jun 2019 21:56

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-B-1DL

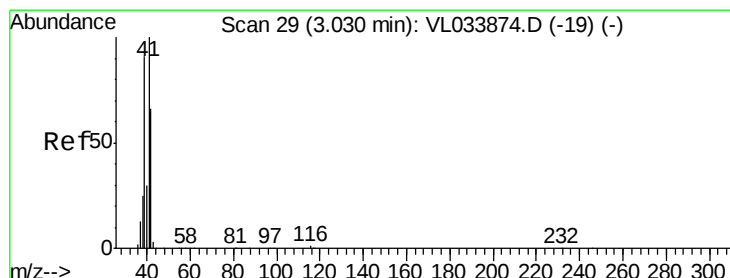
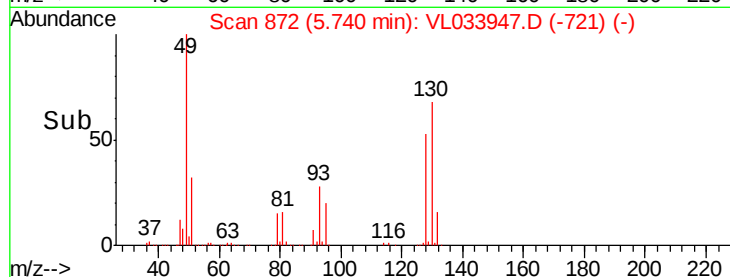
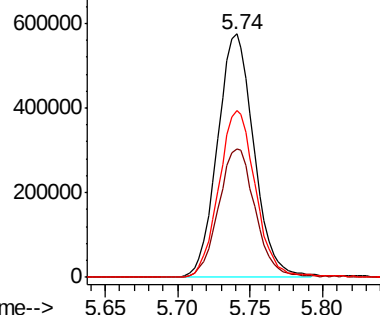
Tot Ion	Ratio	Lower	Upper
49	100		
128	53.6	25.5	76.5
130	69.8	32.5	97.4

Manual Integrations
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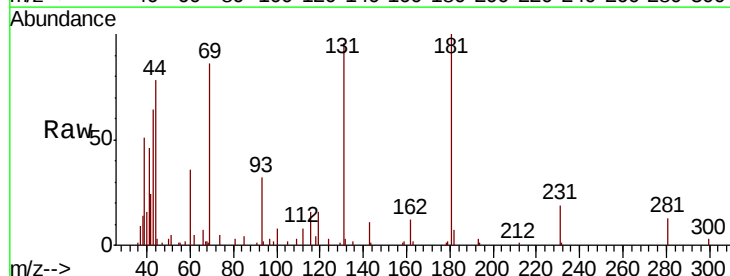
Abundance Ion 49.10 (48.80 to 49.80): VL0
 Ion 128.00 (127.70 to 128.70): V
 Ion 130.00 (129.70 to 130.70): V



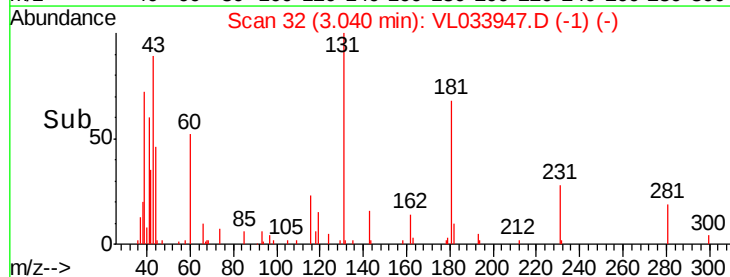
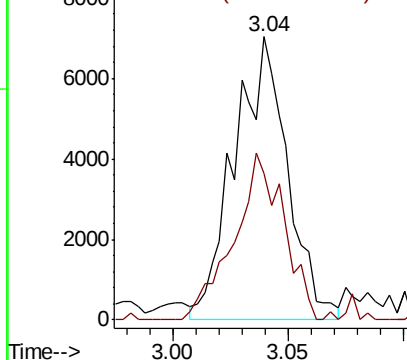
#9

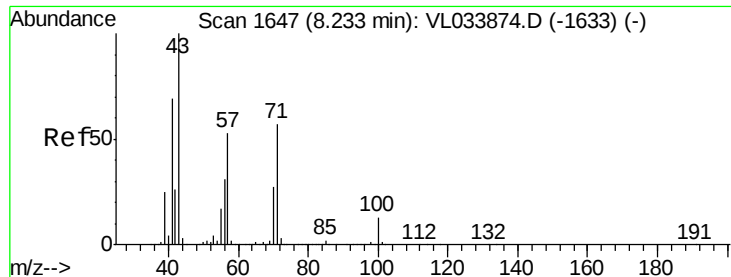
Propene
 Concen: 0.255 ppbv m
 RT: 3.04 min Scan# 32
 Delta R.T. 0.01 min
 Lab File: VL033947.D
 Acq: 24 Jun 2019 21:56

Tgt Ion	Ratio	Lower	Upper
41	100		
42	0.0	56.3	84.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0
 Ion 42.10 (41.80 to 42.80): VL0





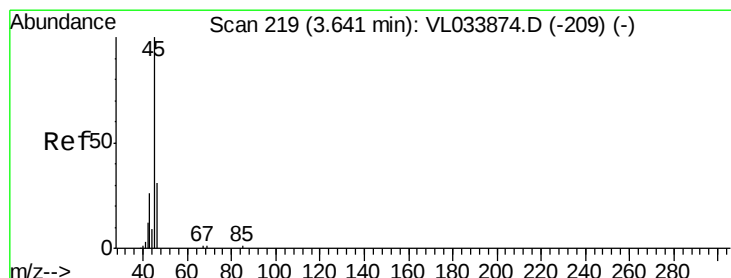
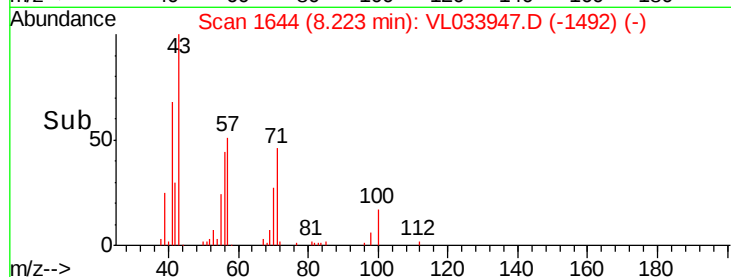
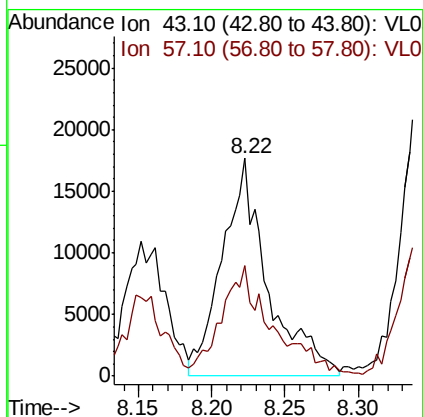
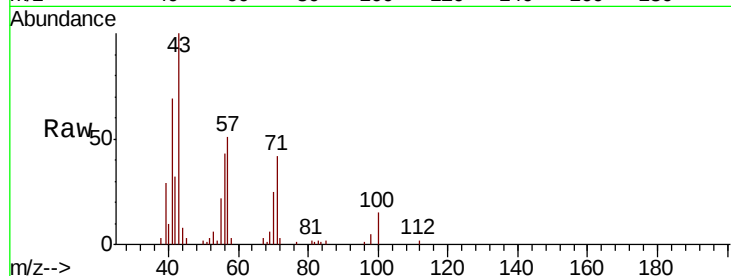
#10
Heptane
Concen: 0.340 ppbv m
RT: 8.22 min Scan# 1644
Delta R.T. -0.01 min
Lab File: VL033947.D
Acq: 24 Jun 2019 21:56

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1DL

Tot Ion: 43 Resp: 38156
Ion Ratio Lower Upper
43 100
57 56.5 41.7 62.5

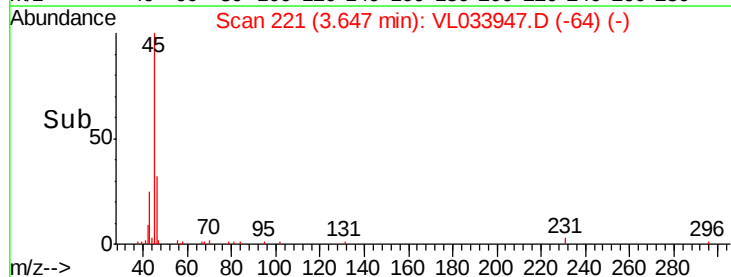
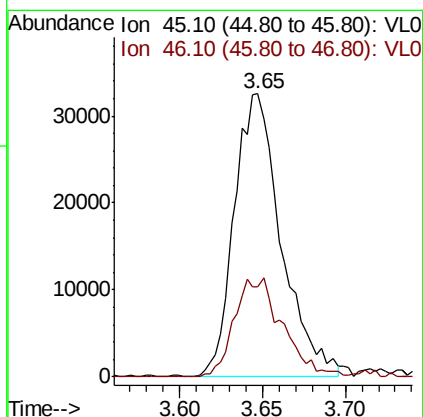
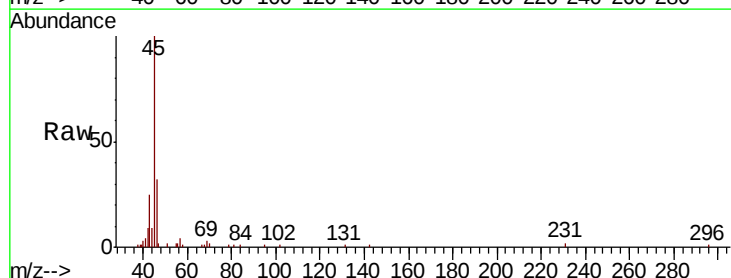
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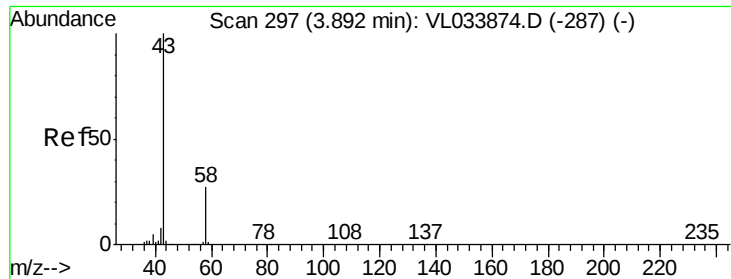
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#13
Ethanol
Concen: 4.436 ppbv
RT: 3.65 min Scan# 221
Delta R.T. 0.01 min
Lab File: VL033947.D
Acq: 24 Jun 2019 21:56

Tgt Ion: 45 Resp: 64038
Ion Ratio Lower Upper
45 100
46 36.6 15.3 61.1





#15

Acetone

Concen: 7.362 ppbv

RT: 3.89 min Scan# 295

Delta R.T. -0.01 min

Lab File: VL033947.D

Acq: 24 Jun 2019 21:56

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1DL

Tot Ion: 43 Resp: 1081540

Ion Ratio Lower Upper

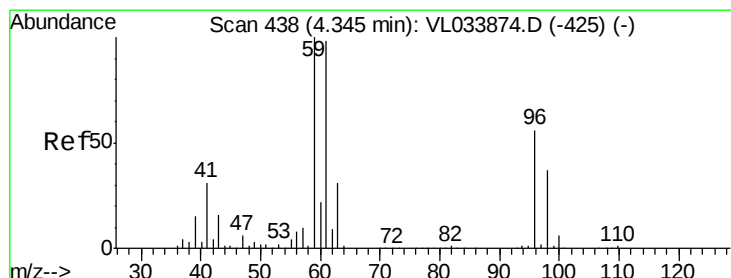
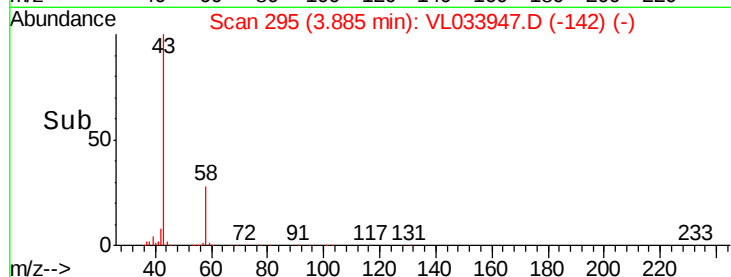
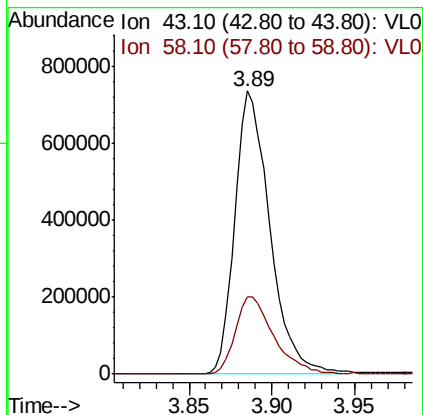
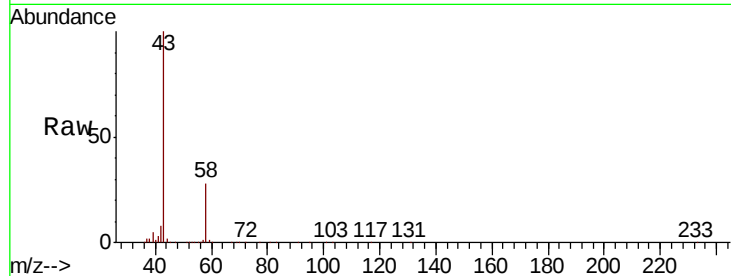
43 100

58 30.3 21.3 31.9

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#17

tert-Butyl alcohol

Concen: 7.817 ppbv

RT: 4.34 min Scan# 438

Delta R.T. -0.00 min

Lab File: VL033947.D

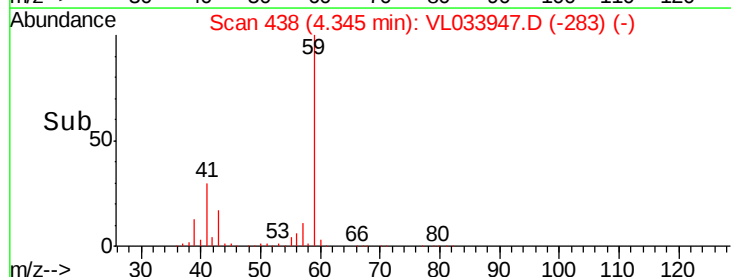
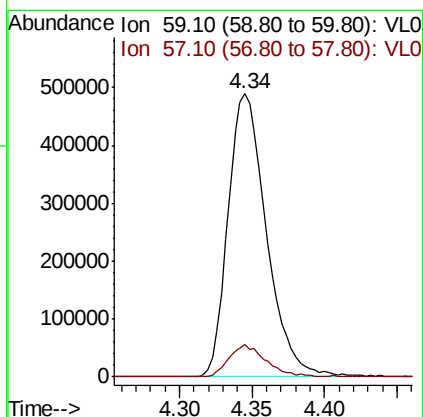
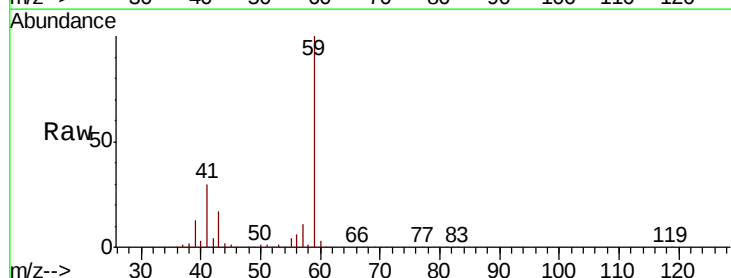
Acq: 24 Jun 2019 21:56

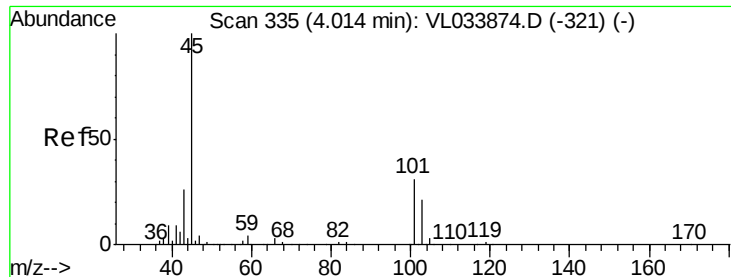
Tgt Ion: 59 Resp: 897700

Ion Ratio Lower Upper

59 100

57 11.4 8.4 12.6





#19

Isopropyl Alcohol

Concen: 0.460 ppbv m

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL033947.D

Acq: 24 Jun 2019 21:56

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1DL

Tot Ion: 45 Resp: 38648

Ion Ratio Lower Upper

45 100

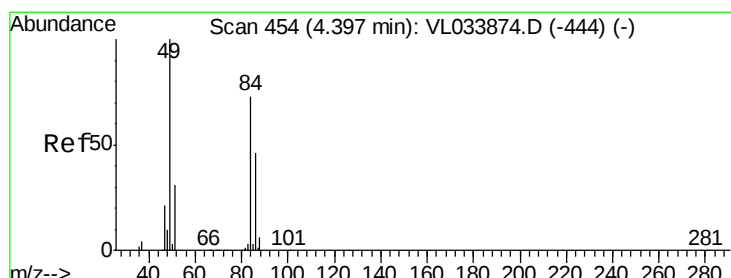
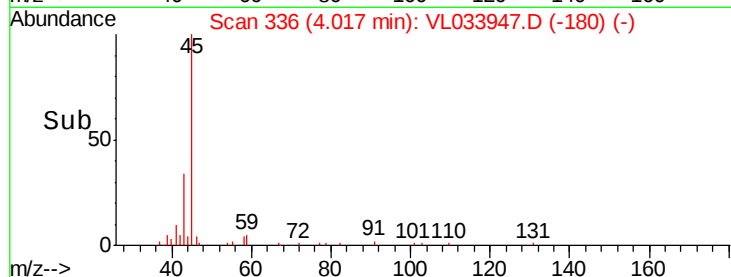
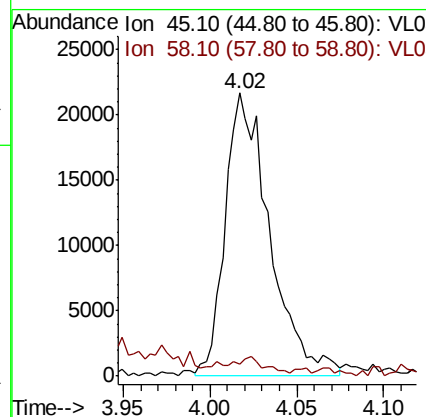
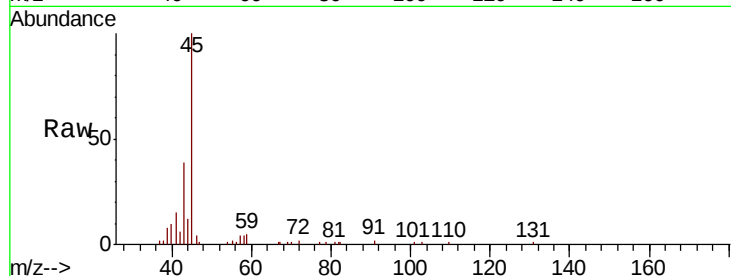
58 0.0 1.8 2.6#

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#20

Methylene Chloride

Concen: 0.530 ppbv m

RT: 4.39 min Scan# 452

Delta R.T. -0.01 min

Lab File: VL033947.D

Acq: 24 Jun 2019 21:56

Tgt Ion: 84 Resp: 30367

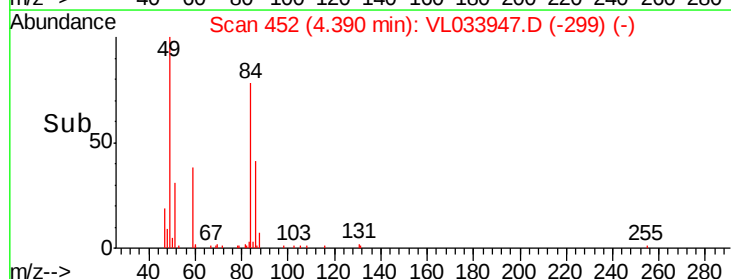
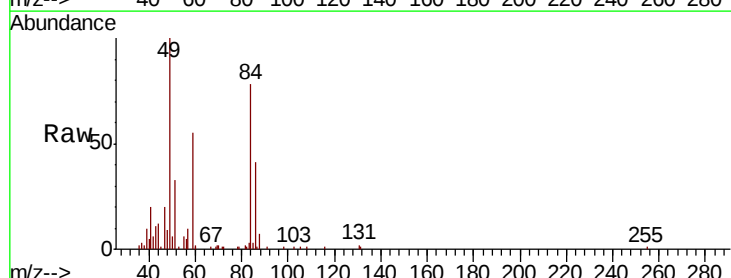
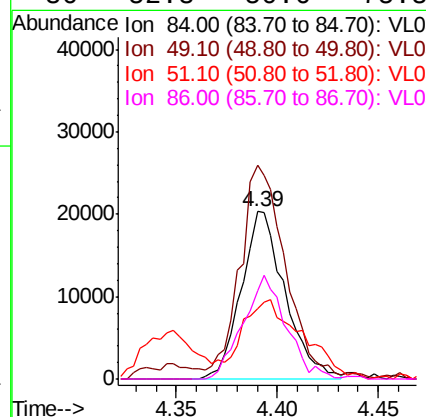
Ion Ratio Lower Upper

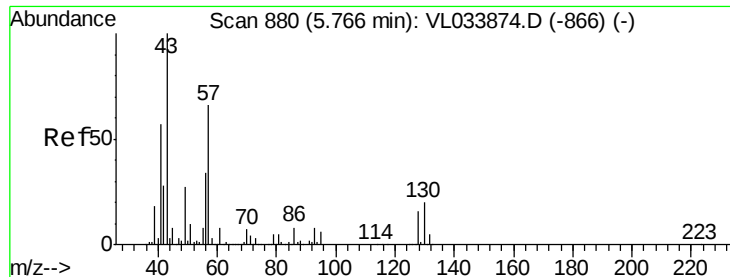
84 100

49 127.8 110.0 165.0

51 42.0 34.6 51.8

86 52.8 50.6 75.8





#26

Hexane

Concen: 0.319 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033947.D

Acq: 24 Jun 2019 21:56

Instrument :

MSVOA_L

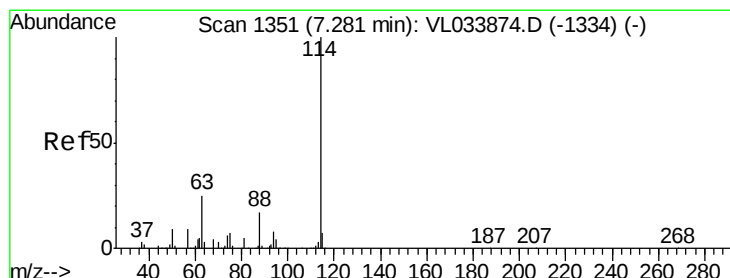
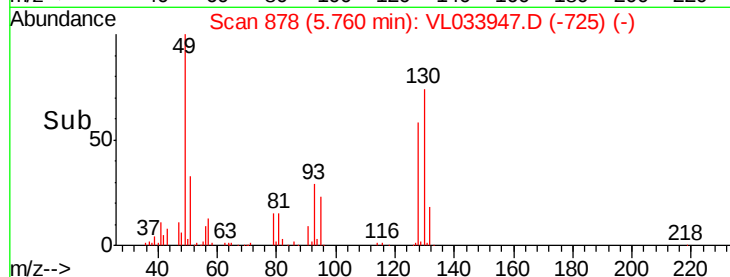
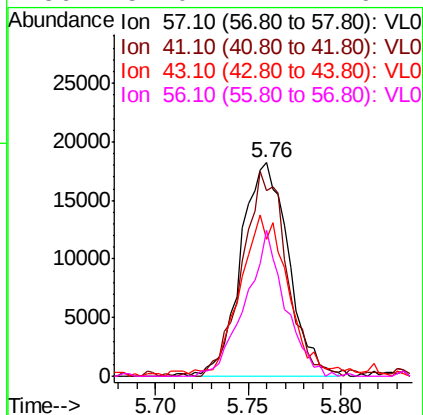
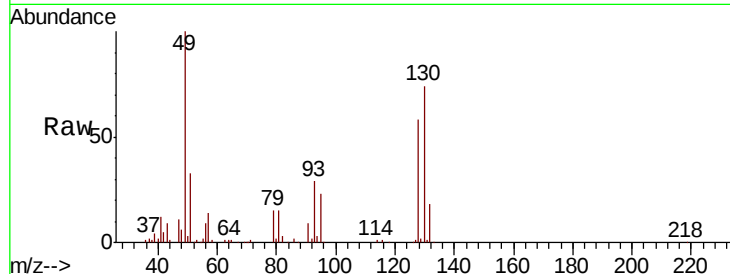
ClientSampleId :

TZC-SSDS-AREA-B-1DL

Tot Ion	57	Resp	32483
Ion Ratio	Lower	Upper	
57	100		
41	91.7	71.4	107.2
43	75.6	183.7	275.5#
56	57.0	42.7	64.1

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

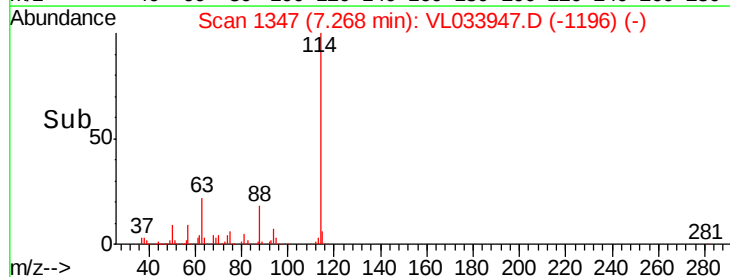
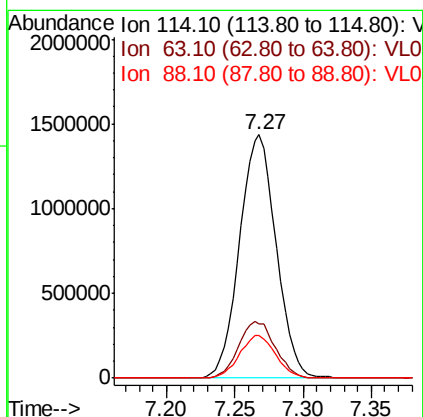
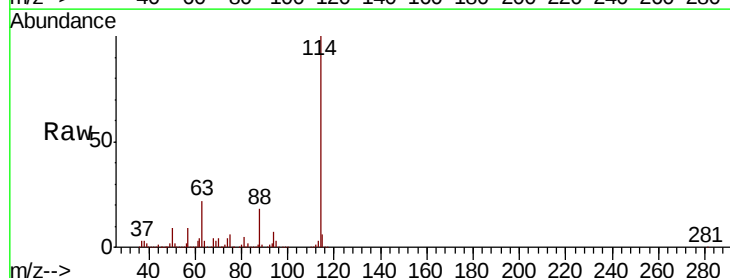
RT: 7.27 min Scan# 1347

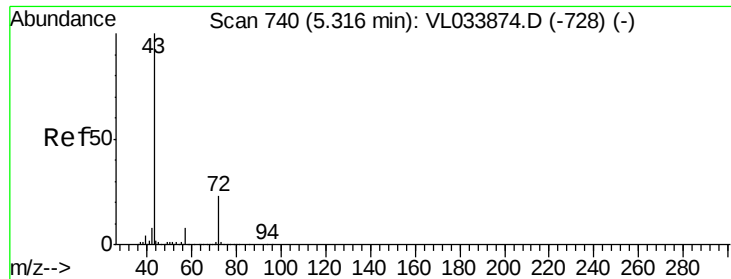
Delta R.T. -0.01 min

Lab File: VL033947.D

Acq: 24 Jun 2019 21:56

Tgt Ion	114	Resp	2670183
Ion Ratio	Lower	Upper	
114	100		
63	23.4	21.1	31.7
88	17.3	14.2	21.4





#34

2-Butanone

Concen: 0.697 ppbv

RT: 5.32 min Scan# 740

Delta R.T. -0.00 min

Lab File: VL033947.D

Acq: 24 Jun 2019 21:56

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1DL

Tot Ion: 43 Resp: 105031

Ion Ratio Lower Upper

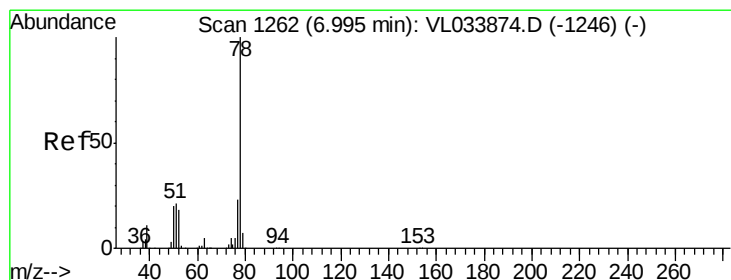
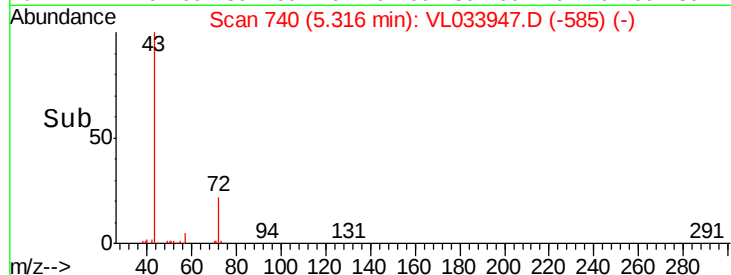
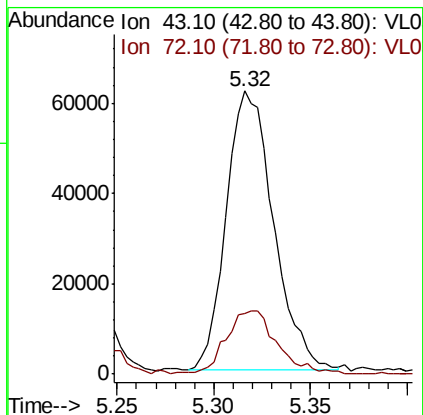
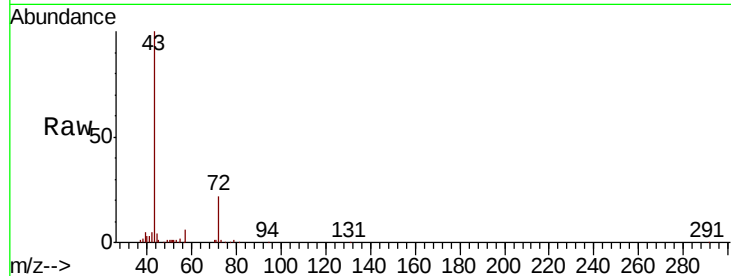
43 100

72 24.6 17.9 26.9

Manual Integrations
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#36

Benzene

Concen: 0.449 ppbv

RT: 6.98 min Scan# 1258

Delta R.T. -0.01 min

Lab File: VL033947.D

Acq: 24 Jun 2019 21:56

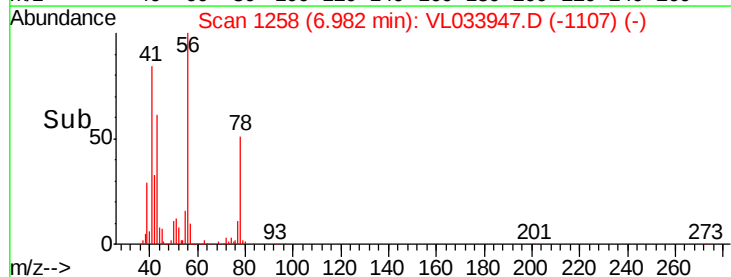
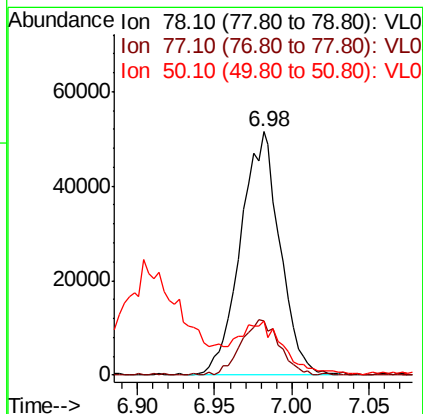
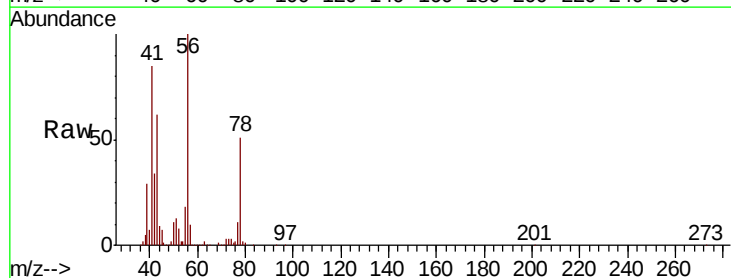
Tgt Ion: 78 Resp: 91510

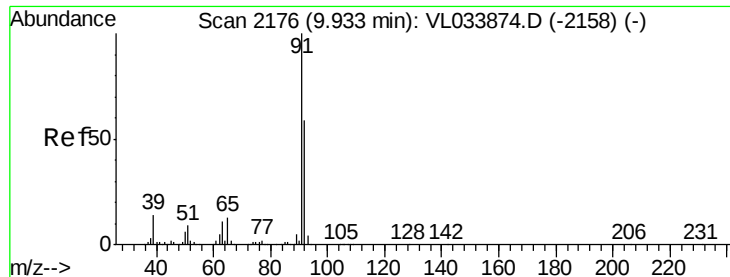
Ion Ratio Lower Upper

78 100

77 21.6 18.2 27.2

50 20.9 15.9 23.9





#53

Toluene

Concen: 1.304 ppbv

RT: 9.92 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL033947.D

Acq: 24 Jun 2019 21:56

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1DL

Tot Ion: 91 Resp: 294273

Ion Ratio Lower Upper

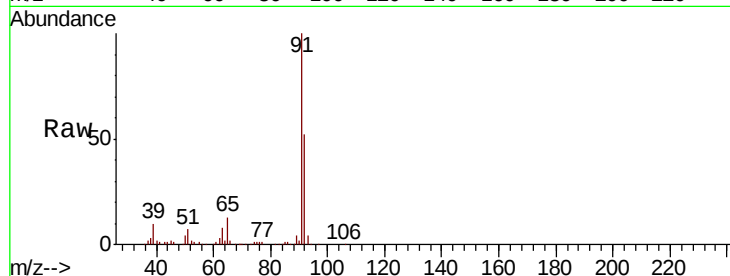
91 100

92 58.8 47.0 70.6

Manual Integrations
APPROVED

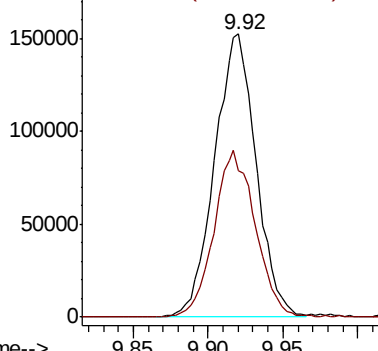
MMDadoda

7/1/2019 5:01:34 PM

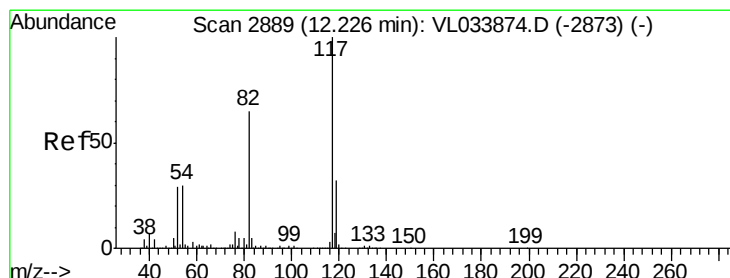
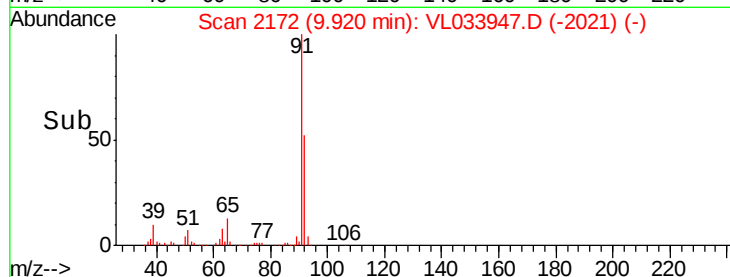


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL033947.D

Acq: 24 Jun 2019 21:56

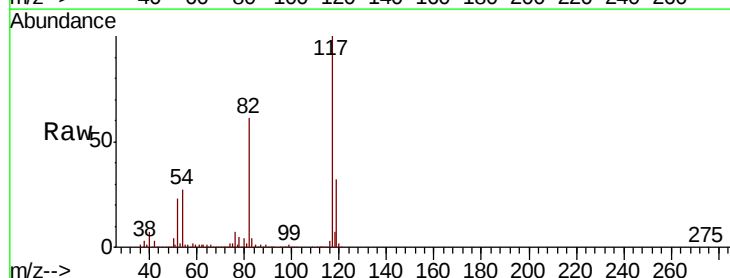
Tgt Ion: 117 Resp: 2736670

Ion Ratio Lower Upper

117 100

82 60.6 50.2 75.2

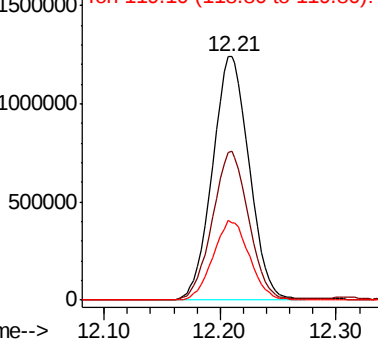
119 32.7 24.8 37.2



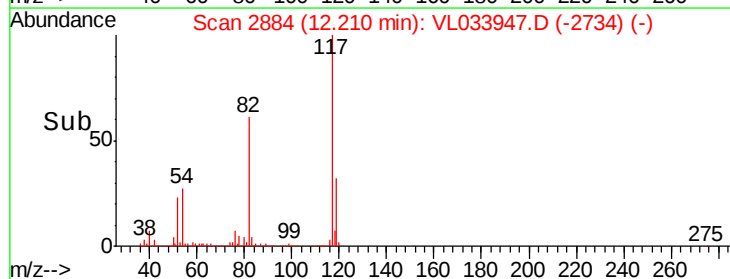
Abundance Ion 117.10 (116.80 to 117.80): V

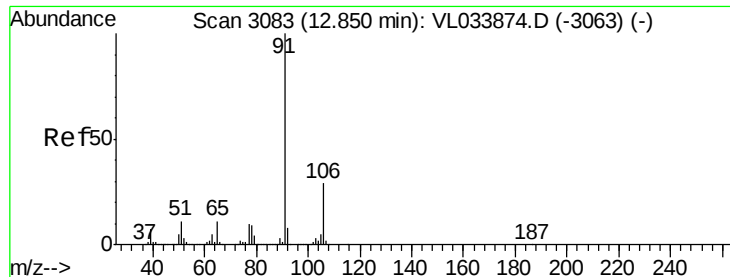
Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



Time-->





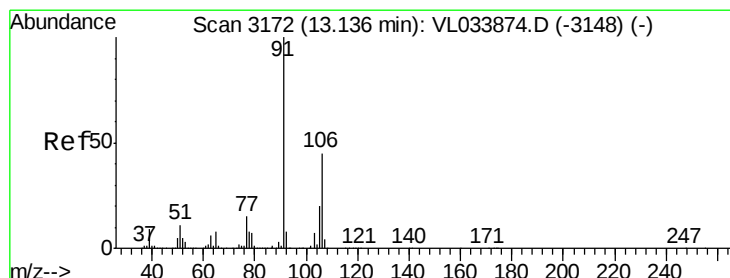
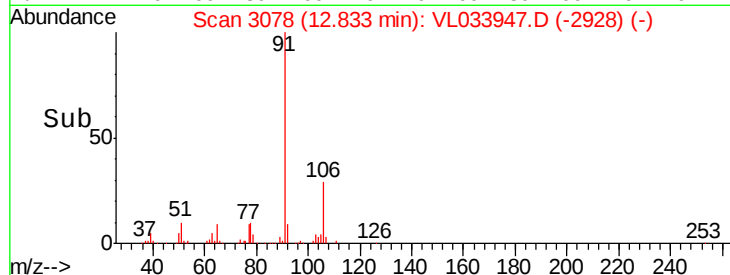
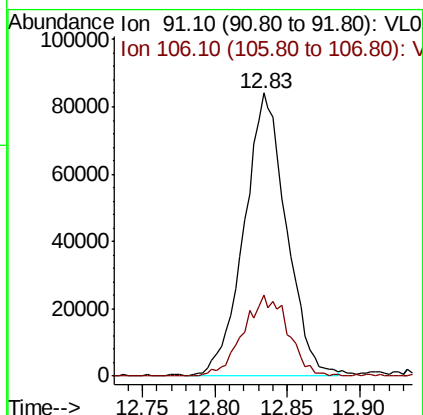
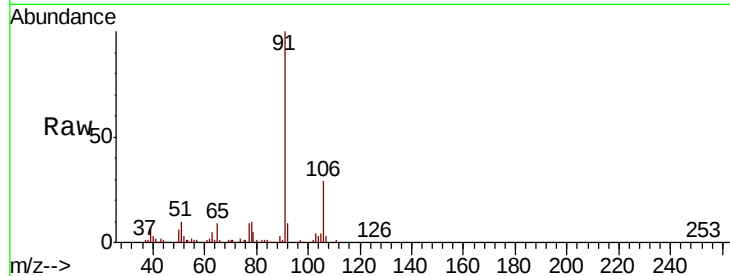
#58
Ethyl Benzene
Concen: 0.554 ppbv
RT: 12.83 min Scan# 3078
Delta R.T. -0.02 min
Lab File: VL033947.D
Acq: 24 Jun 2019 21:56

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1DL

Tot Ion: 91 Resp: 170796
Ion Ratio Lower Upper
91 100
106 28.8 23.0 34.6

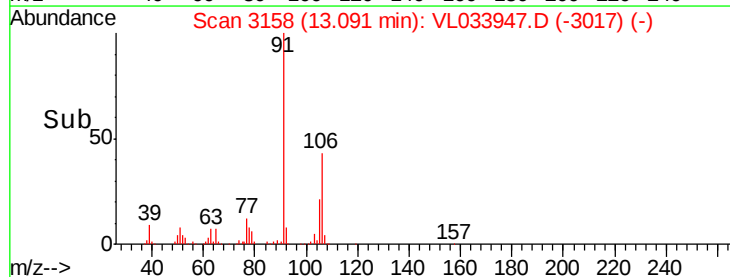
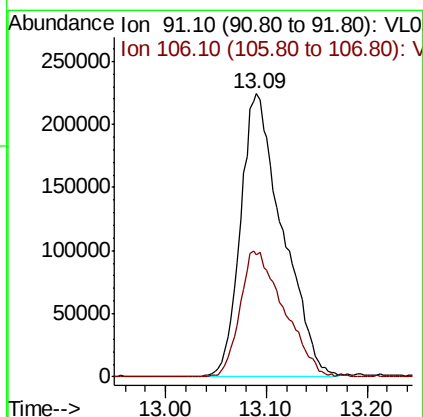
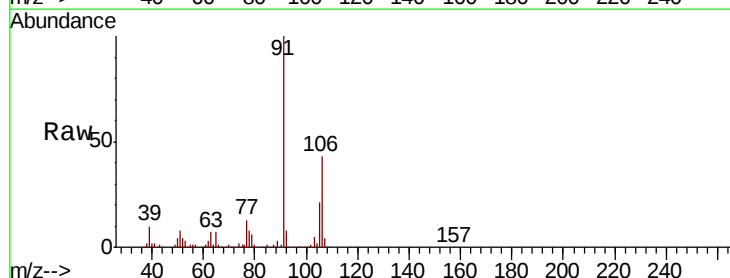
Manual Integrations
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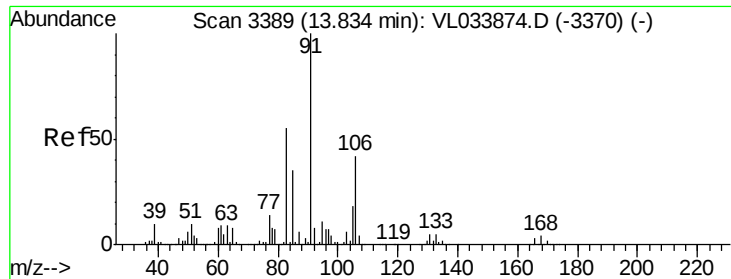
MMDadoda
7/1/2019 5:01:34 PM



#59
m/p-Xylene
Concen: 2.306 ppbv
RT: 13.09 min Scan# 3158
Delta R.T. -0.05 min
Lab File: VL033947.D
Acq: 24 Jun 2019 21:56

Tgt Ion: 91 Resp: 647122
Ion Ratio Lower Upper
91 100
106 46.9 35.8 53.8





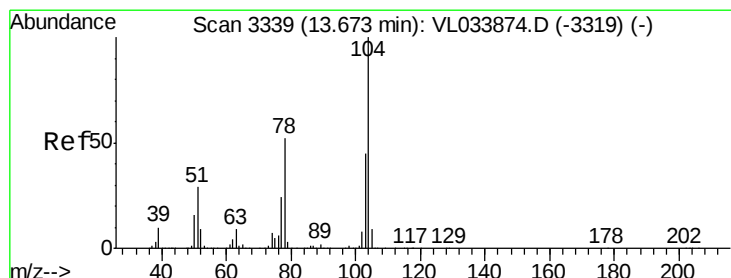
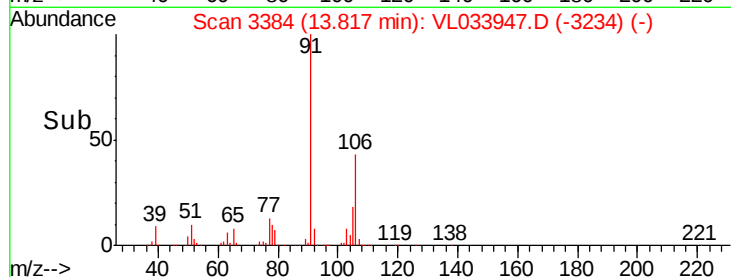
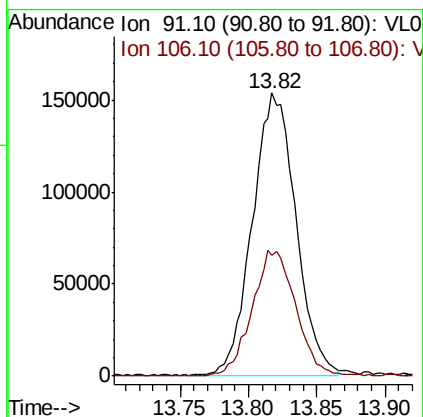
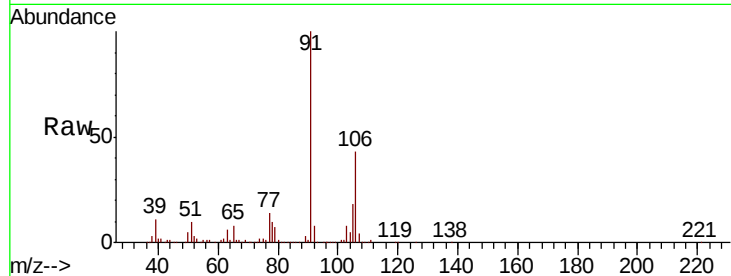
#60
o-Xylene
Concen: 1.167 ppbv
RT: 13.82 min Scan# 3384
Delta R.T. -0.02 min
Lab File: VL033947.D
Acq: 24 Jun 2019 21:56

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-B-1DL

Tot Ion: 91 Resp: 338197
Ion Ratio Lower Upper
91 100
106 45.1 21.7 65.1

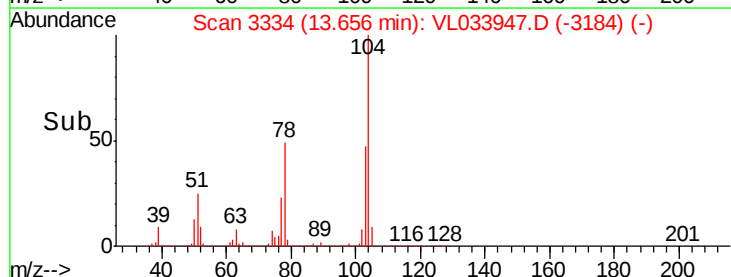
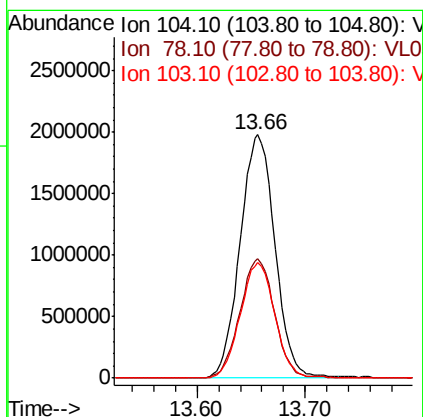
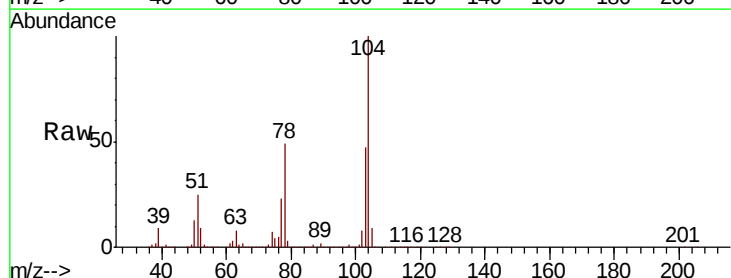
Manual Integrations
APPROVED

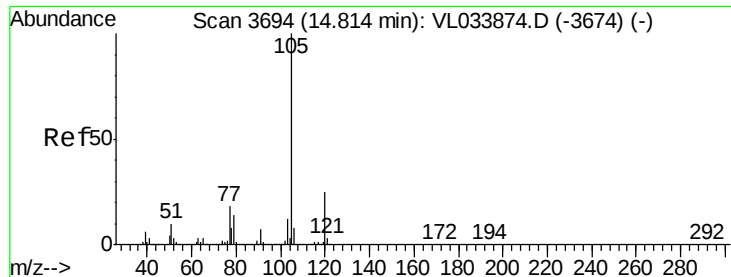
MMDadoda
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#61
Styrene
Concen: 23.787 ppbv
RT: 13.66 min Scan# 3334
Delta R.T. -0.02 min
Lab File: VL033947.D
Acq: 24 Jun 2019 21:56

Tgt Ion: 104 Resp: 4459362
Ion Ratio Lower Upper
104 100
78 49.0 43.4 65.0
103 47.2 37.6 56.4





#62

Isopropylbenzene

Concen: 0.370 ppbv

RT: 14.79 min Scan# 3688

Delta R.T. -0.02 min

Lab File: VL033947.D

Acq: 24 Jun 2019 21:56

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1DL

Tot Ion:105 Resp: 144500

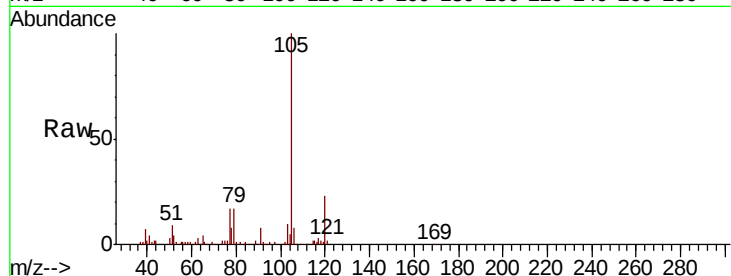
Ion Ratio Lower Upper

105 100

120 26.6 20.3 30.5

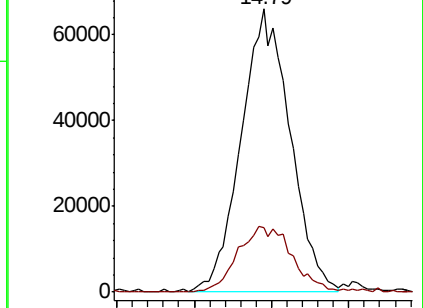
Manual Integrations
APPROVED

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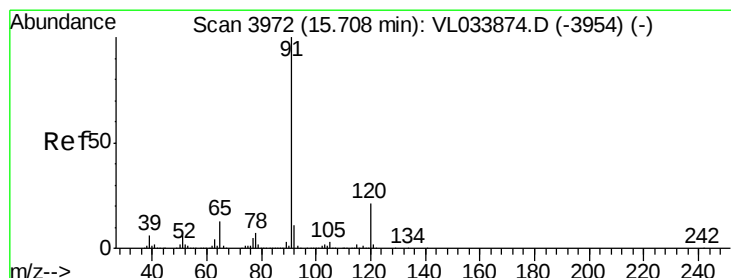
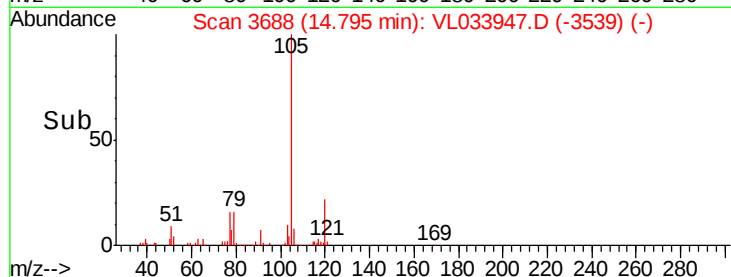


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



Time--> 14.70 14.75 14.80 14.85



#64

n-propylbenzene

Concen: 0.304 ppbv

RT: 15.69 min Scan# 3967

Delta R.T. -0.02 min

Lab File: VL033947.D

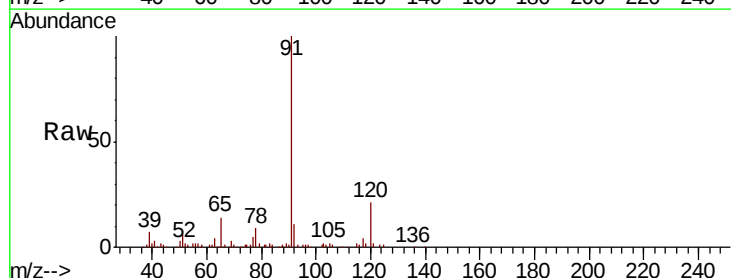
Acq: 24 Jun 2019 21:56

Tgt Ion:120 Resp: 30356

Ion Ratio Lower Upper

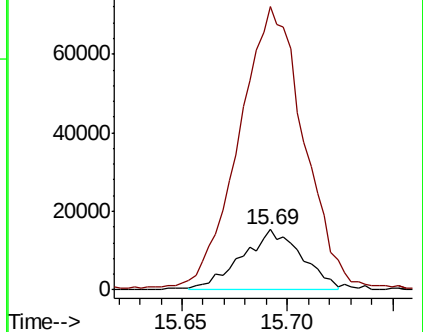
120 100

91 506.6 387.0 580.6

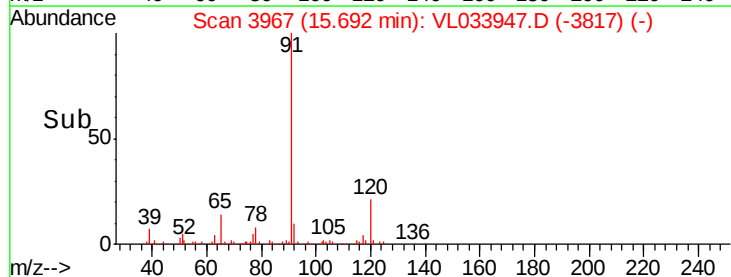


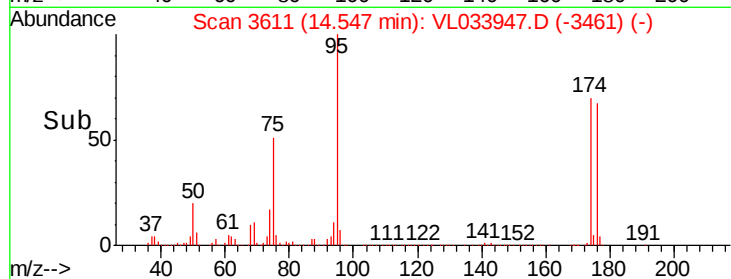
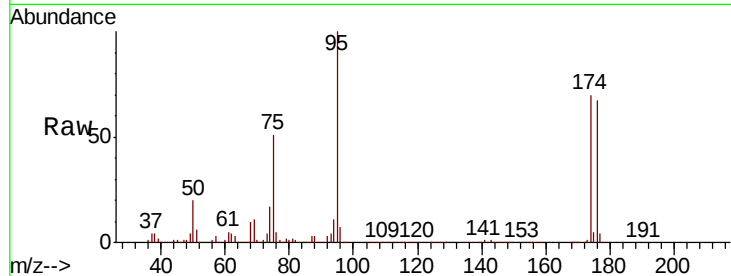
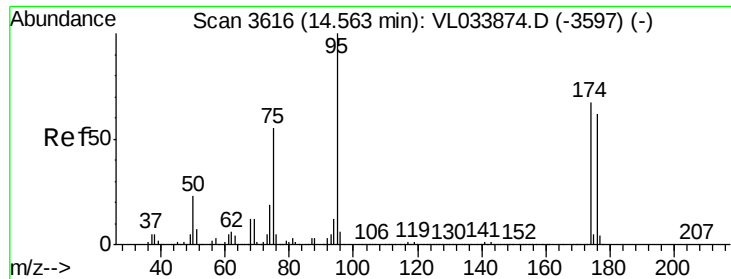
Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO



Time--> 15.65 15.70





#68

1-Bromo-4-Fluorobenzene

Concen: 9.690 ppbv

RT: 14.55 min Scan# 3611

Delta R.T. -0.02 min

Lab File: VL033947.D

Acq: 24 Jun 2019 21:56

Tot Ion: 95 Resp: 2178187

Ion Ratio Lower Upper

95 100

174 70.5 54.0 81.0

175 5.1 3.8 5.8

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-B-1DL

Manual Integrations

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