

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX112919\
 Data File : VX013700.D
 Acq On : 29 Nov 2019 14:50
 Operator : JC/SP
 Sample : K6027-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

Manual Integrations
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Quant Time: Dec 02 06:46:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	680628	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1045207	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	950724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	450397	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	371431	47.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.02%	
35) Dibromofluoromethane	5.49	113	313233	48.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.96%	
50) Toluene-d8	8.71	98	1266856	50.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.64%	
62) 4-Bromofluorobenzene	11.14	95	447546	49.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.60%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	3.03	59	32388	16.608	ug/l #	74
16) Acetone	2.43	43	32311	8.284	ug/l	97
19) Methyl tert-butyl Ether	3.18	73	337908	15.747	ug/l #	1
22) Diisopropyl ether	3.84	45	5080	0.224	ug/l #	36
25) 2-Butanone	4.67	43	28813	4.970	ug/l	97
27) cis-1,2-Dichloroethene	4.58	96	16180	1.997	ug/l	88
31) Cyclohexane	5.58	56	328003	28.105	ug/l #	94
39) Methylcyclohexane	7.46	83	327128	27.893	ug/l	94
40) Benzene	6.14	78	3759308	130.094	ug/l	98
43) Isopropyl Acetate	6.42	43	265790	15.168	ug/l #	22
44) Trichloroethene	7.21	130	5788	0.730	ug/l	96
52) Toluene	8.78	92	273100	15.213	ug/l	98
64) Tetrachloroethene	9.34	164	6108	0.862	ug/l #	78
67) Ethyl Benzene	10.25	91	7741327	228.228	ug/l	93
68) m/p-Xylenes	10.35	106	7155449	551.006	ug/l	86
69) o-Xylene	10.70	106	521444	41.171	ug/l	98
73) Isopropylbenzene	11.01	105	1120654	35.471	ug/l	99
78) n-propylbenzene	11.35	91	2185628	61.971	ug/l	99
80) 1,3,5-Trimethylbenzene	11.50	105	1587719	61.317	ug/l	100
83) tert-Butylbenzene	11.77	119	20457m	0.777	ug/l	
84) 1,2,4-Trimethylbenzene	11.81	105	11263255	428.591	ug/l	89
85) sec-Butylbenzene	11.94	105	163487m	5.439	ug/l	
86) p-Isopropyltoluene	12.06	119	56530m	2.022	ug/l	
89) n-Butylbenzene	12.38	91	169576m	7.110	ug/l	
95) Naphthalene	13.83	128	5829754	191.078	ug/l	99

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

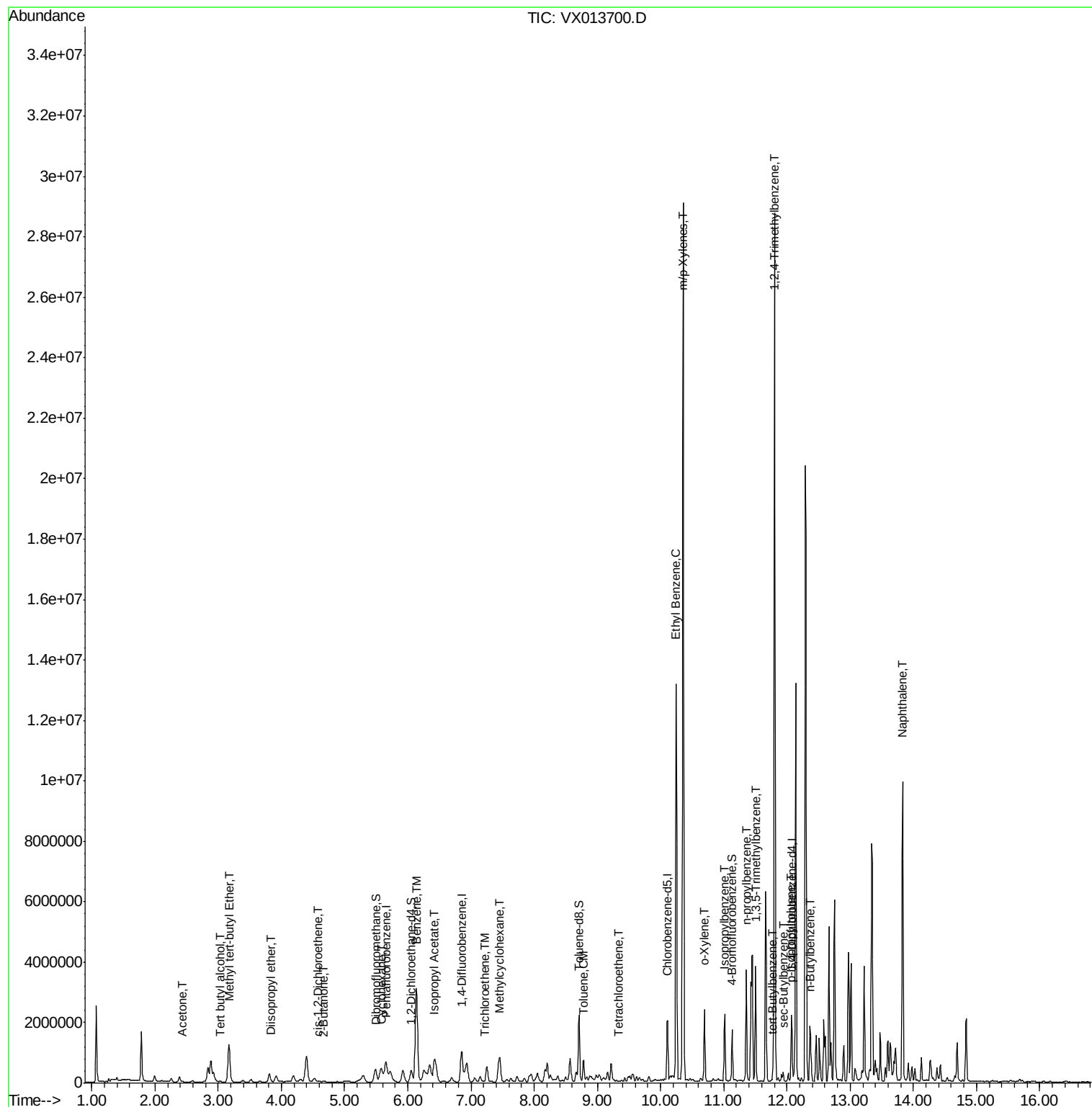
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112919\
Data File : VX013700.D
Acq On : 29 Nov 2019 14:50
Operator : JC/SP
Sample : K6027-13
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 10 Sample Multiplier: 1

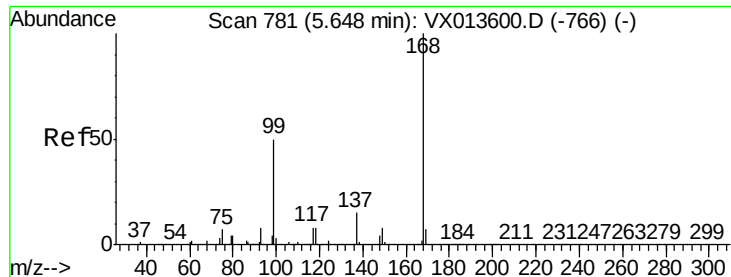
Instrument :
MSVOA_X
ClientSampleId :
MW-2

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Quant Time: Dec 02 06:46:15 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Instrument :

MSVOA_X

ClientSampled :

MW-2

Tot Ion:168 Resp: 680628

Ion Ratio Lower Upper

168 100

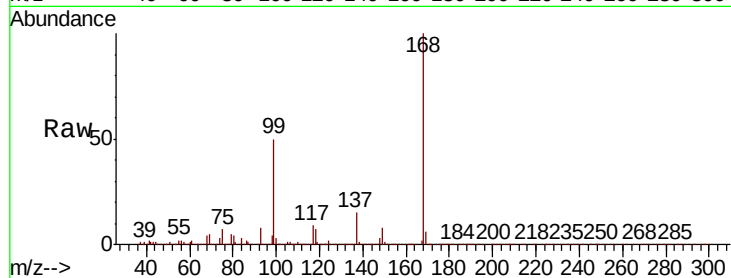
99 49.5 39.8 59.8

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

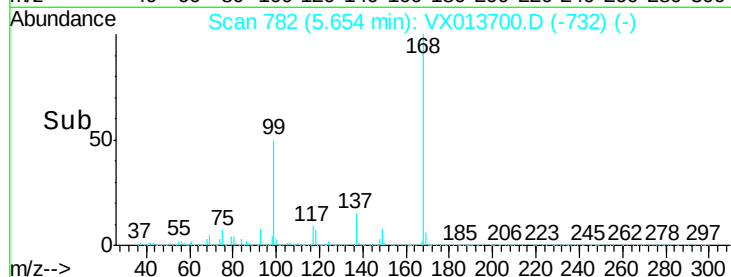
150000

100000

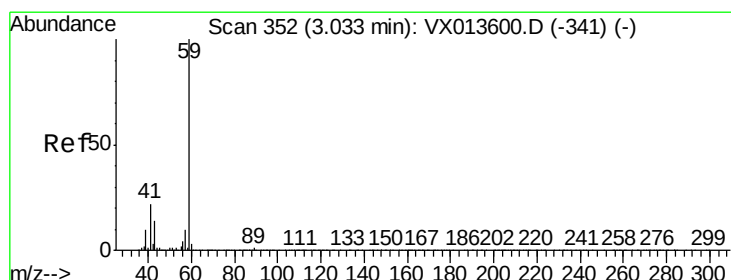
50000

0

Time-->



Time-->



#11

Tert butyl alcohol

Concen: 16.608 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013700.D

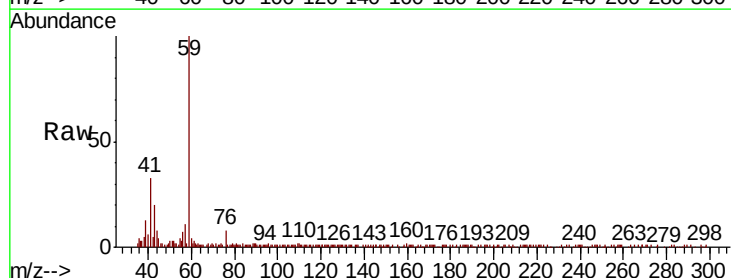
Acq: 29 Nov 2019 14:50

Tgt Ion: 59 Resp: 32388

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

400000

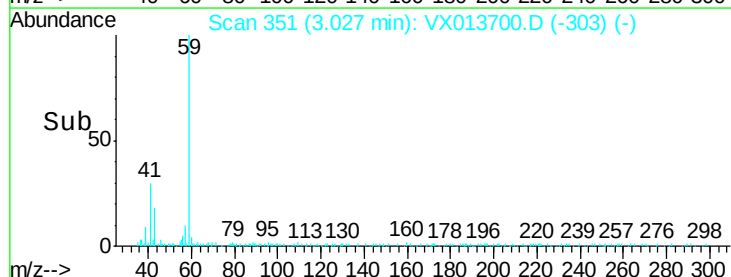
300000

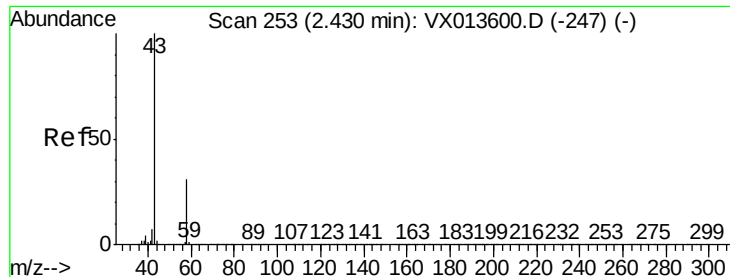
200000

100000

0

Time-->





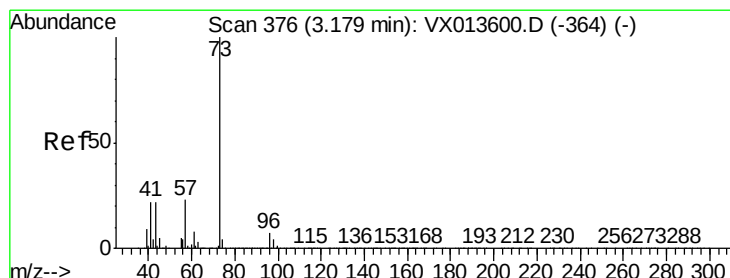
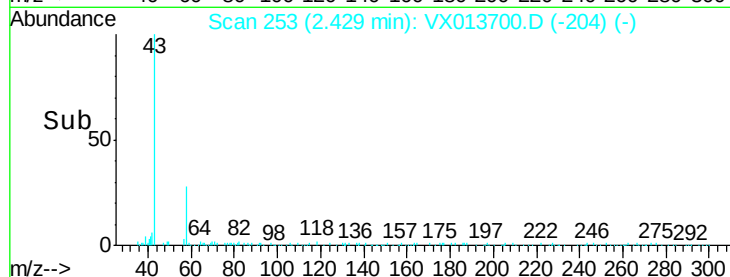
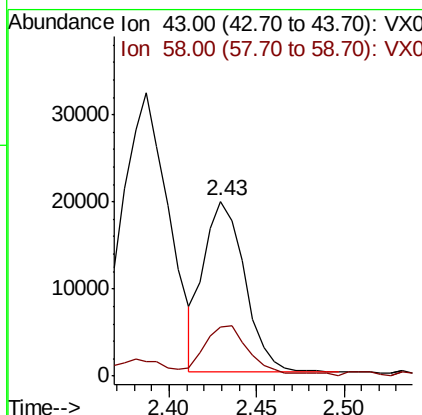
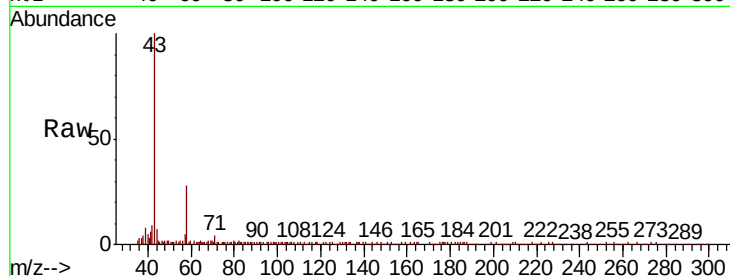
#16
Acetone
Concen: 8.284 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013700.D
Acq: 29 Nov 2019 14:50

Instrument :
MSVOA_X
ClientSampleId :
MW-2

Tot Ion	Ratio	Lower	Upper
43	100		
58	28.9	24.6	36.8

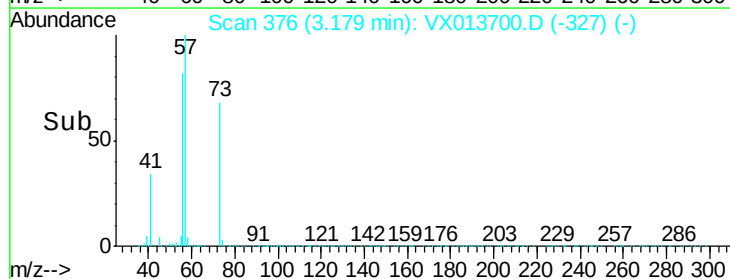
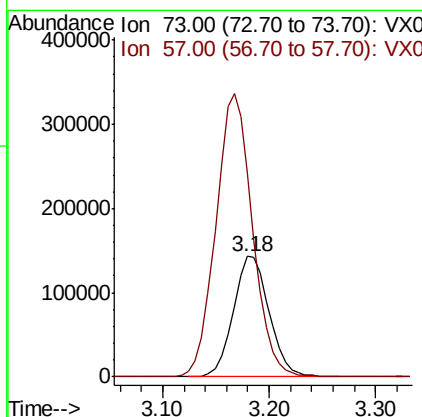
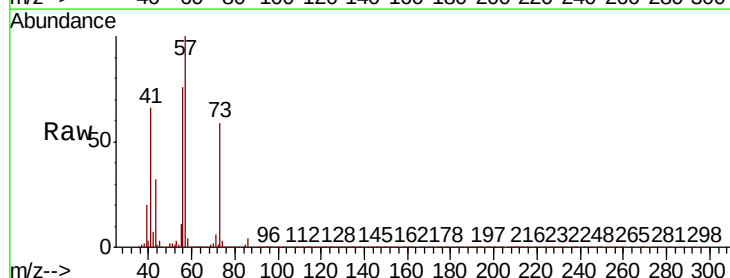
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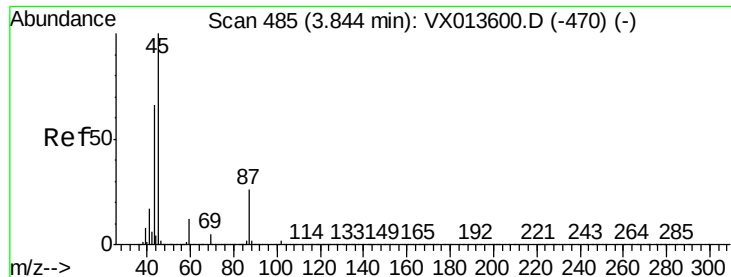
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#19
Methyl tert-butyl Ether
Concen: 15.747 ug/l
RT: 3.18 min Scan# 376
Delta R.T. -0.00 min
Lab File: VX013700.D
Acq: 29 Nov 2019 14:50

Tgt Ion	Ratio	Lower	Upper
73	100		
57	169.4	18.3	27.5#





#22

Diisopropyl ether

Concen: 0.224 ug/l

RT: 3.84 min Scan# 485

Delta R.T. -0.00 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Instrument :

MSVOA_X

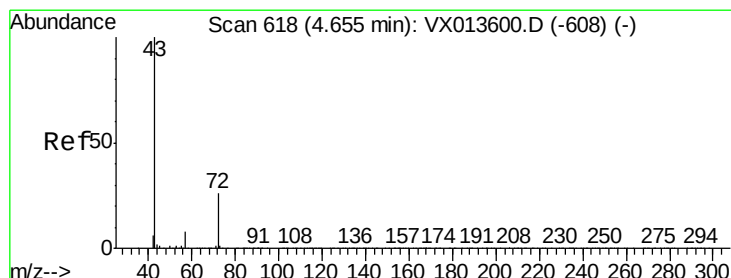
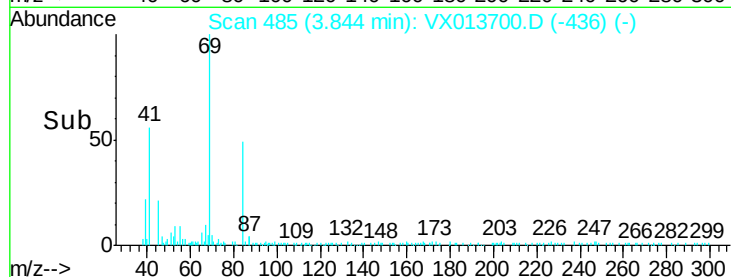
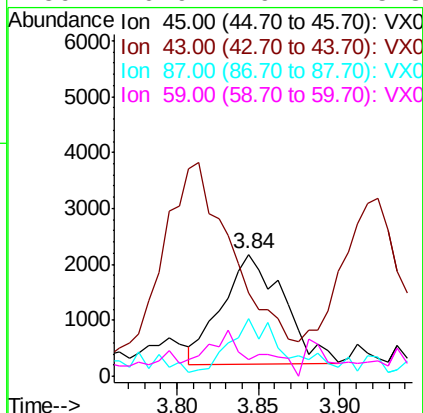
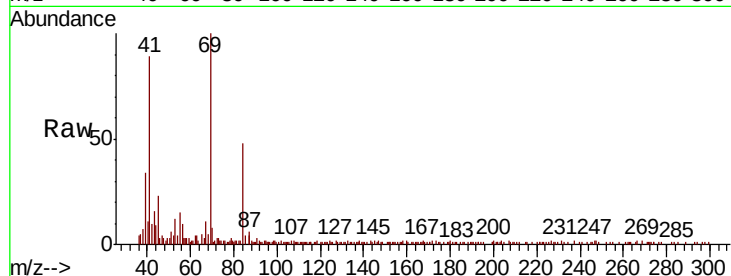
ClientSampled :

MW-2

Tot Ion	Ion	Ratio	Lower	Upper
45	100			
43	0.0	52.6	79.0#	
87	49.4	21.1	31.7#	
59	10.9	9.2	13.8	

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#25

2-Butanone

Concen: 4.970 ug/l

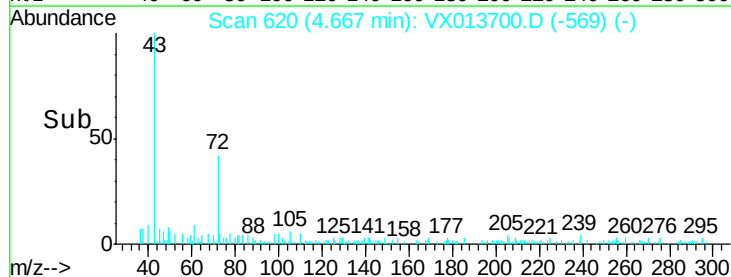
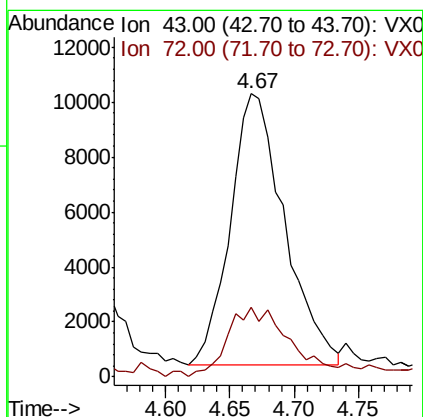
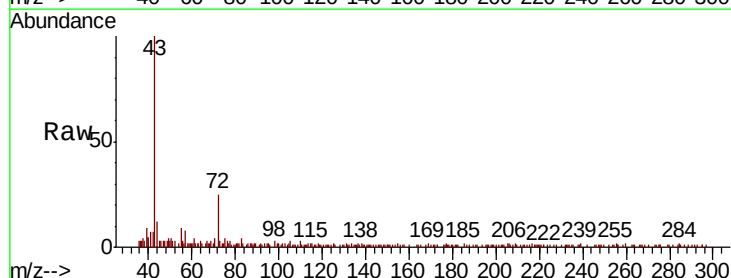
RT: 4.67 min Scan# 620

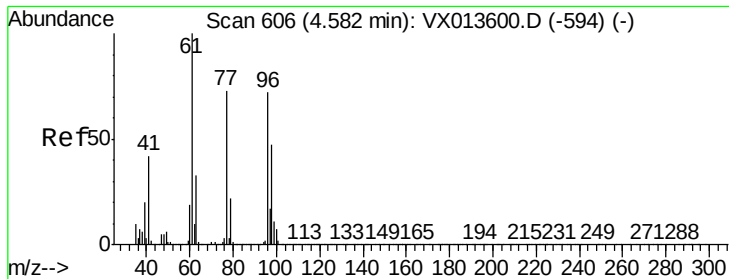
Delta R.T. 0.01 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
72	24.1	20.6	31.0	





#27

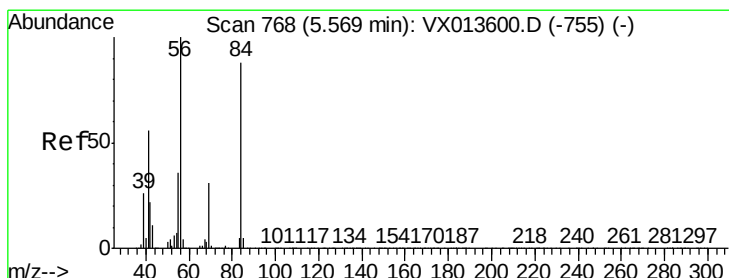
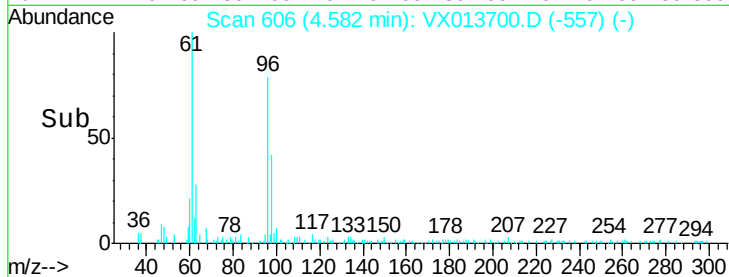
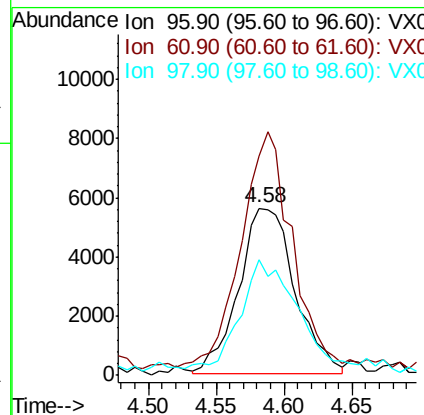
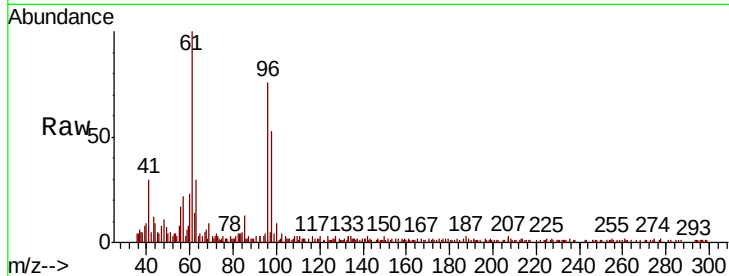
cis-1,2-Dichloroethene
Concen: 1.997 ug/l
RT: 4.58 min Scan# 606
Delta R.T. -0.00 min
Lab File: VX013700.D
Acq: 29 Nov 2019 14:50

Instrument :
MSVOA_X
ClientSampled :
MW-2

Tot Ion	Ratio	Lower	Upper
96	100		
61	128.6	0.0	286.4
98	72.9	0.0	127.4

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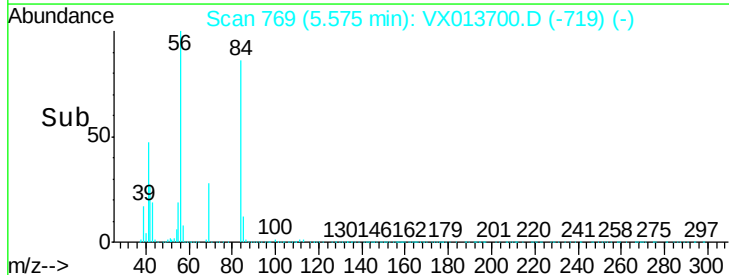
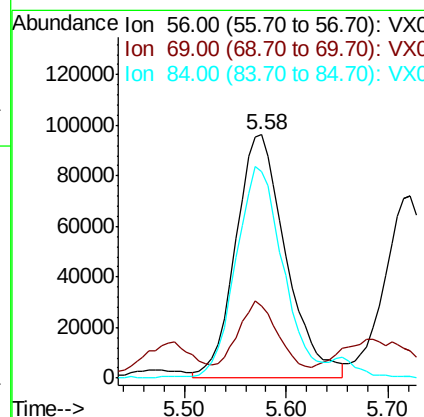
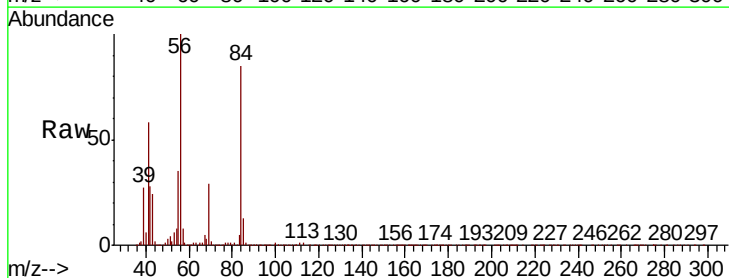
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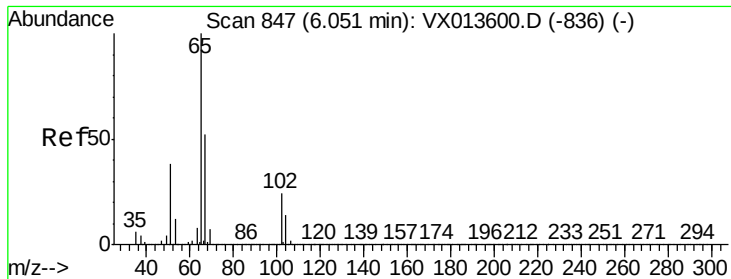


#31

Cyclohexane
Concen: 28.105 ug/l
RT: 5.58 min Scan# 769
Delta R.T. 0.01 min
Lab File: VX013700.D
Acq: 29 Nov 2019 14:50

Tgt Ion	Ratio	Lower	Upper
56	100		
69	20.2	24.6	36.8#
84	86.0	70.0	105.0





#33

1,2-Dichloroethane-d4

Concen: 47.013 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Instrument :

MSVOA_X

ClientSampled :

MW-2

Tot Ion: 65 Resp: 371431

Ion Ratio Lower Upper

65 100

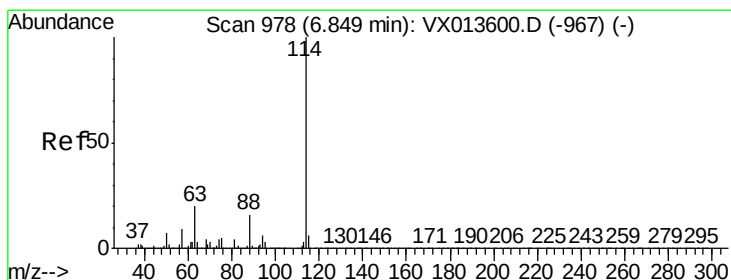
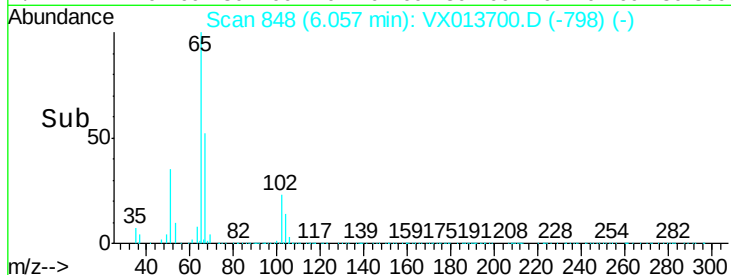
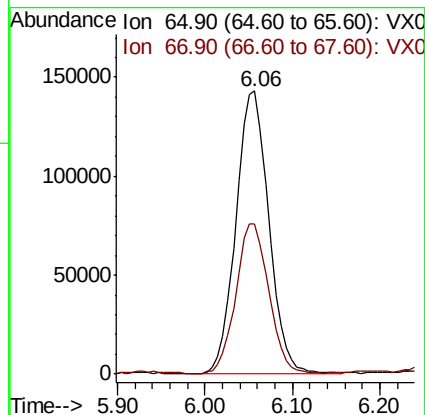
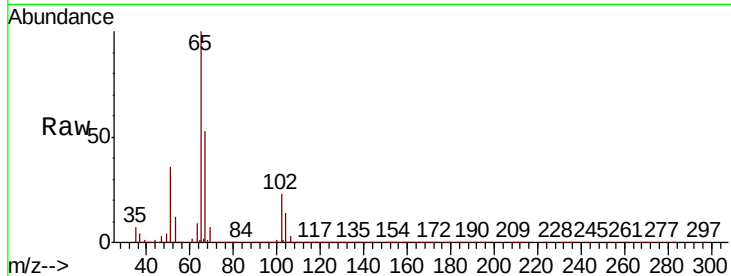
67 53.3 0.0 104.4

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

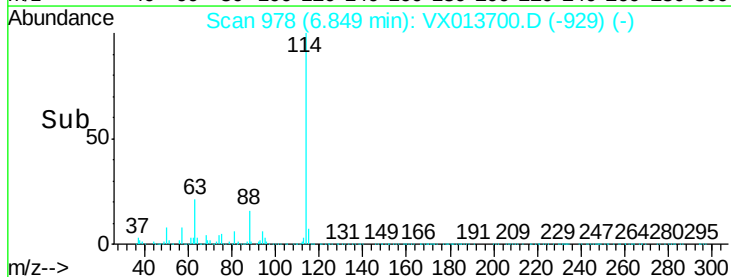
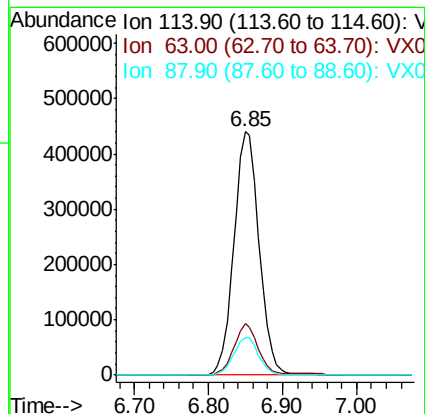
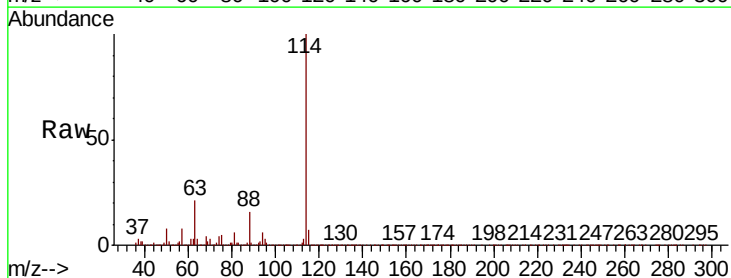
Tgt Ion: 114 Resp: 1045207

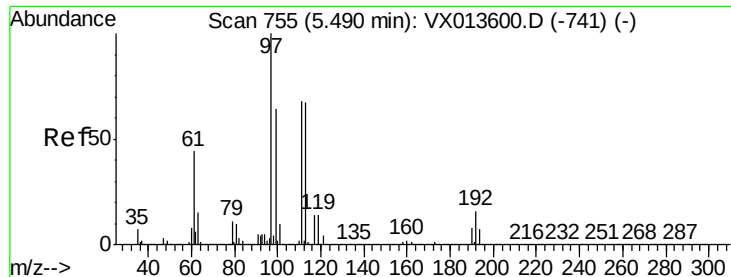
Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.6

88 15.5 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.476 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Instrument :

MSVOA_X

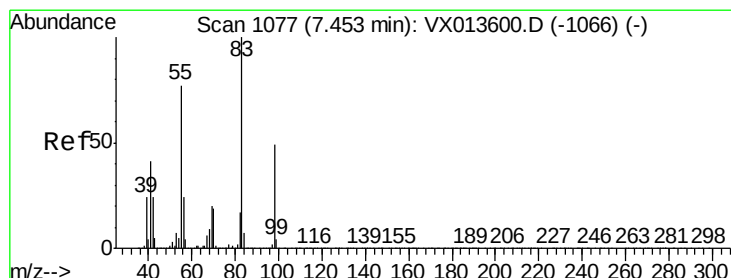
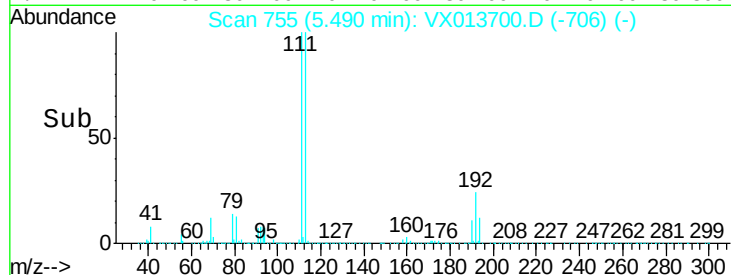
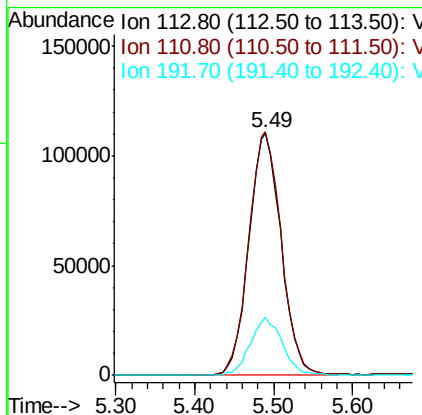
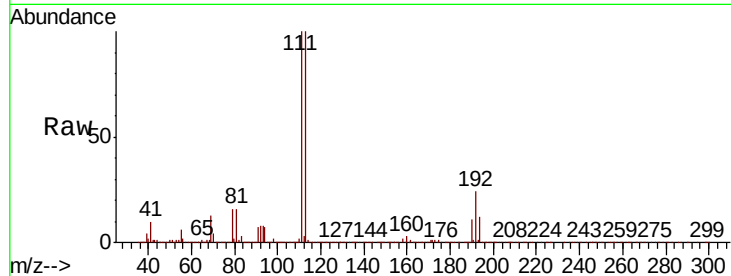
ClientSampled :

MW-2

Tot Ion:	113	Resp:	313233
Ion Ratio	Lower	Upper	
113	100		
111	101.6	83.6	125.4
192	23.7	19.2	28.8

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#39

Methylcyclohexane

Concen: 27.893 ug/l

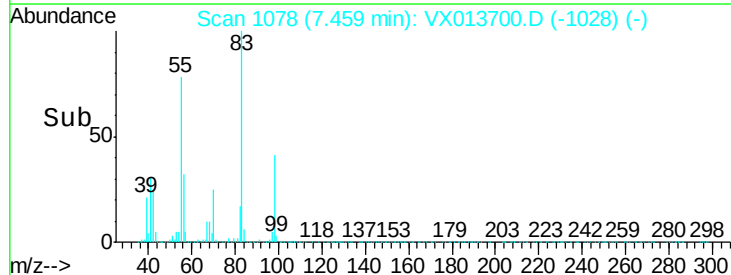
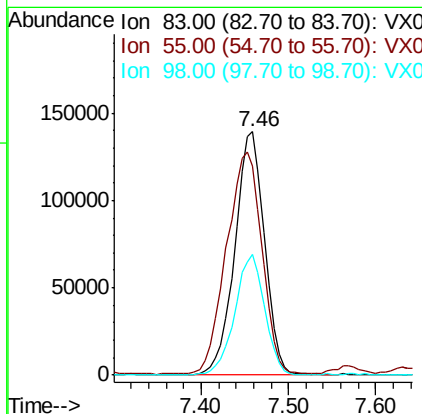
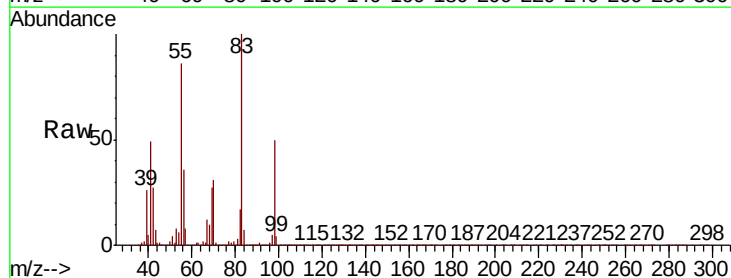
RT: 7.46 min Scan# 1078

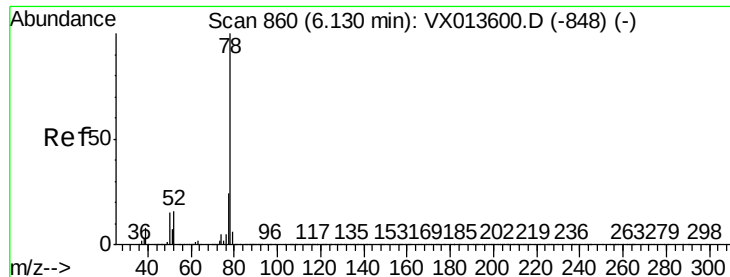
Delta R.T. 0.01 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Tgt Ion:	83	Resp:	327128
Ion Ratio	Lower	Upper	
83	100		
55	85.5	61.9	92.9
98	49.7	39.4	59.0





#40

Benzene

Concen: 130.094 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Instrument :

MSVOA_X

ClientSampleId :

MW-2

Tot Ion: 78 Resp: 3759308

Ion Ratio Lower Upper

78 100

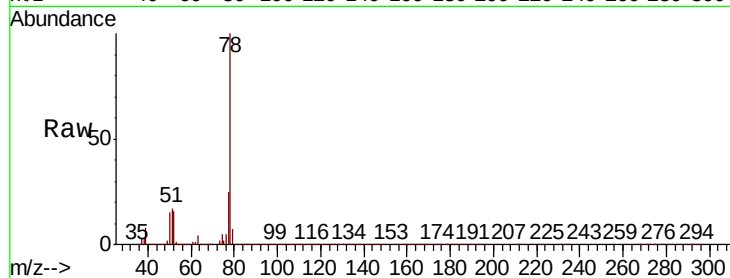
77 24.9 19.0 28.4

Manual Integrations

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Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

1500000

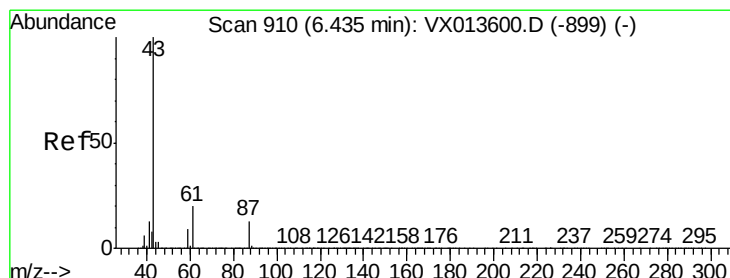
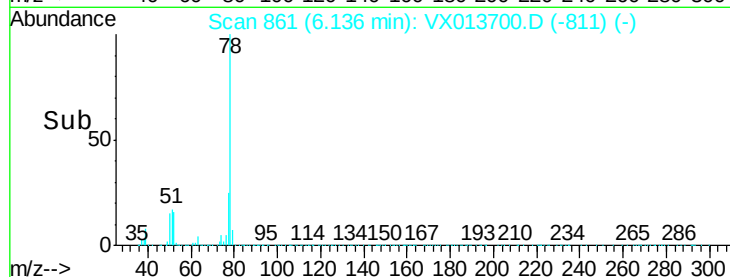
1000000

500000

0

6.00 6.10 6.20 6.30

Time-->



#43

Isopropyl Acetate

Concen: 15.168 ug/l

RT: 6.42 min Scan# 907

Delta R.T. -0.02 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

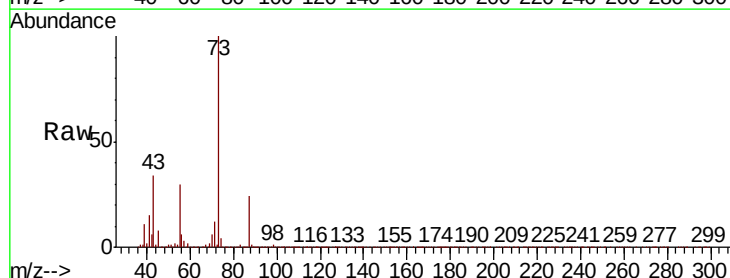
Tgt Ion: 43 Resp: 265790

Ion Ratio Lower Upper

43 100

61 0.2 16.3 24.5#

87 65.5 10.8 16.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

120000

100000

80000

60000

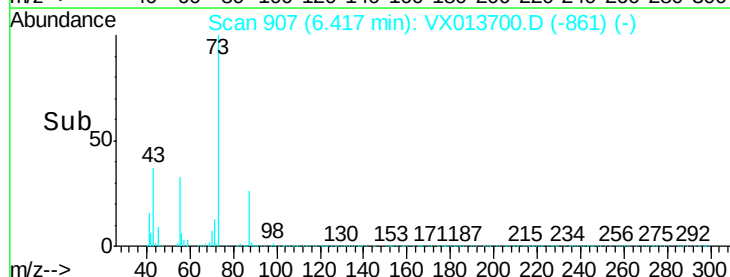
40000

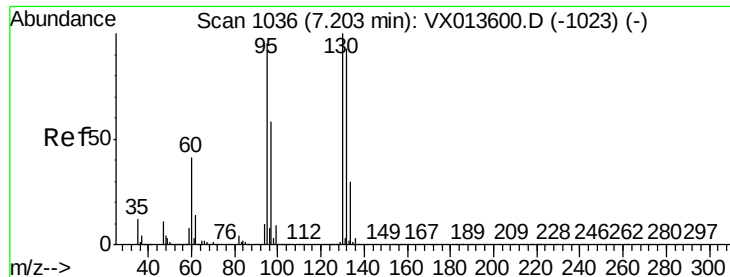
20000

0

6.40 6.50

Time-->





#44

Trichloroethene

Concen: 0.730 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Instrument :

MSVOA_X

ClientSampled :

MW-2

Tot Ion:130 Resp: 5788

Ion Ratio Lower Upper

130 100

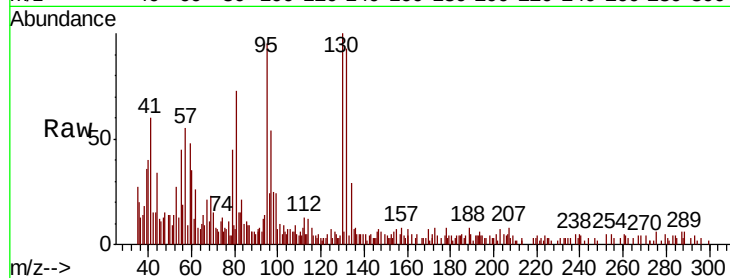
95 91.3 0.0 190.8

Manual Integrations

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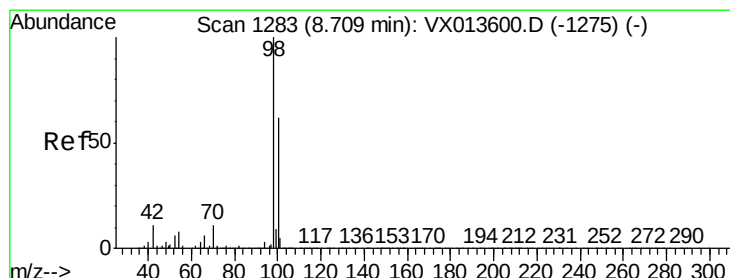
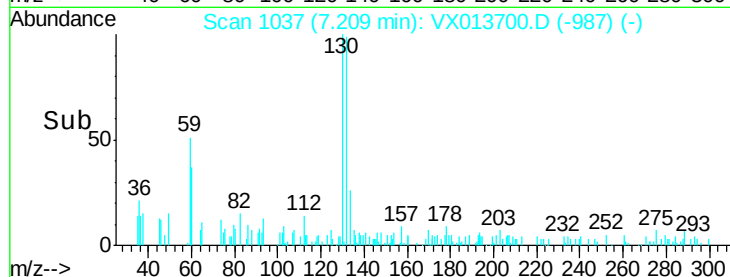
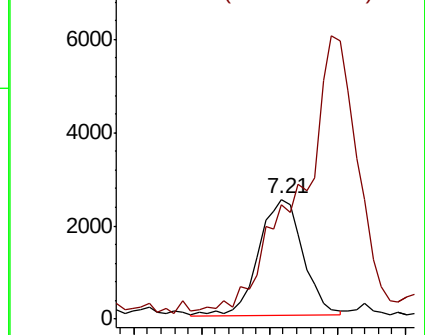
apatel

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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 50.322 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013700.D

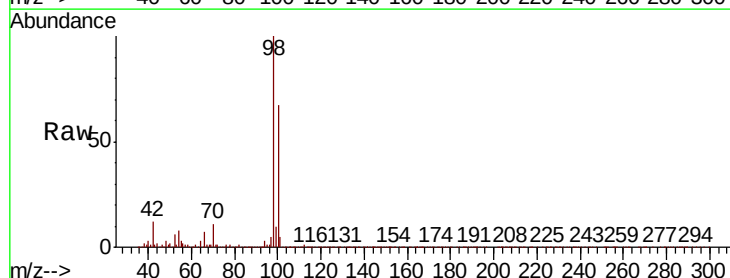
Acq: 29 Nov 2019 14:50

Tgt Ion: 98 Resp: 1266856

Ion Ratio Lower Upper

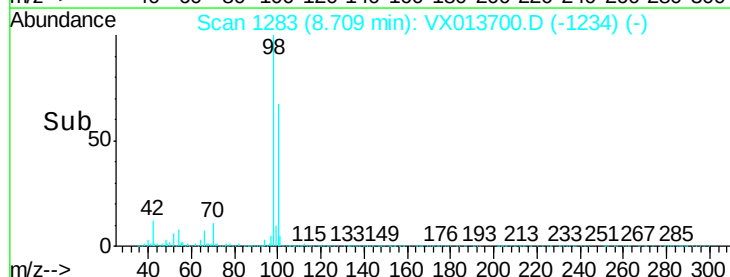
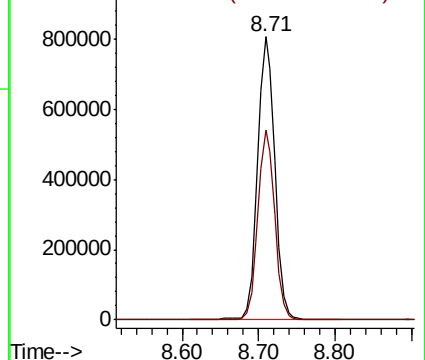
98 100

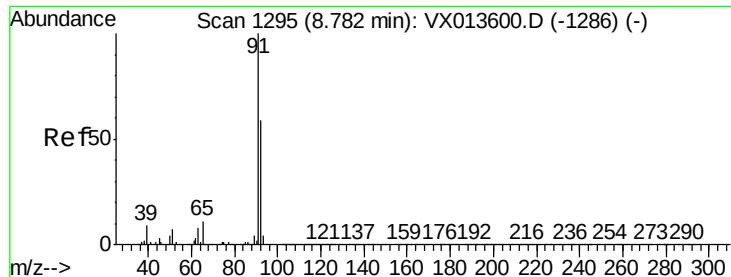
100 65.7 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 15.213 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Instrument :

MSVOA_X

ClientSampled :

MW-2

Tot Ion: 92 Resp: 273100

Ion Ratio Lower Upper

92 100

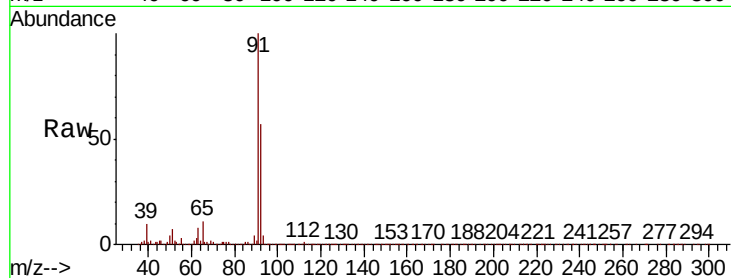
91 172.5 136.2 204.2

Manual Integrations

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Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

300000

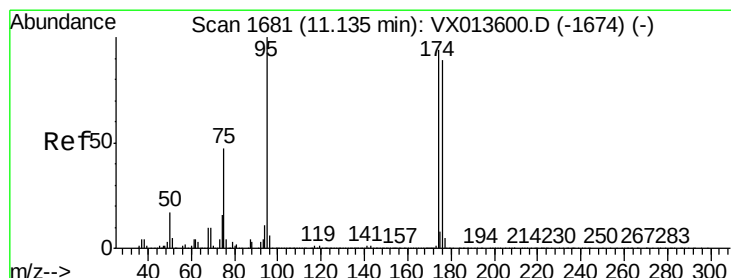
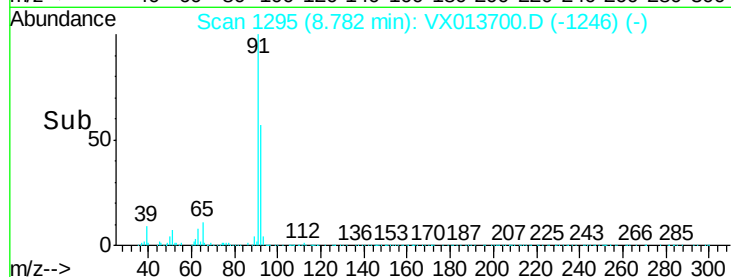
200000

100000

0

8.78

Time-->



#62

4-Bromofluorobenzene

Concen: 49.299 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

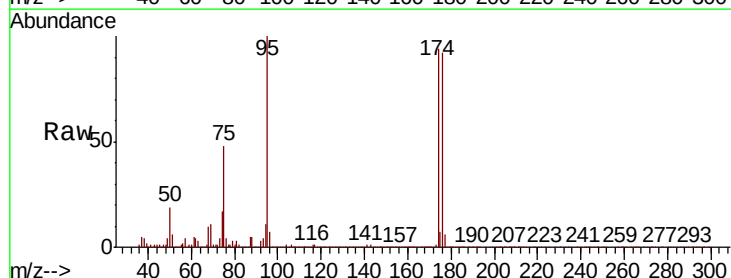
Tgt Ion: 95 Resp: 447546

Ion Ratio Lower Upper

95 100

174 85.9 0.0 180.0

176 84.0 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

300000

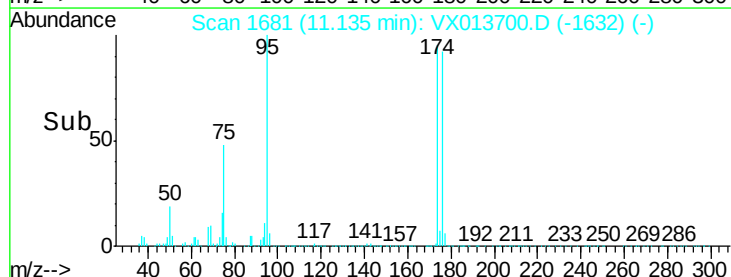
200000

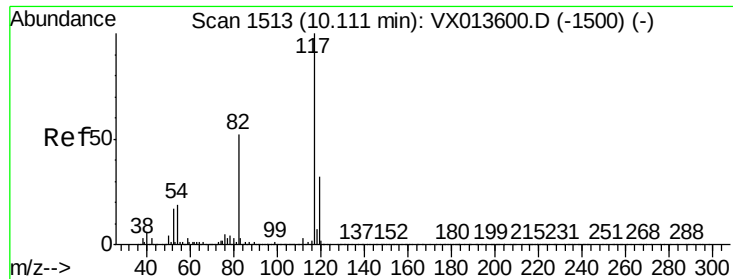
100000

0

11.14

Time-->





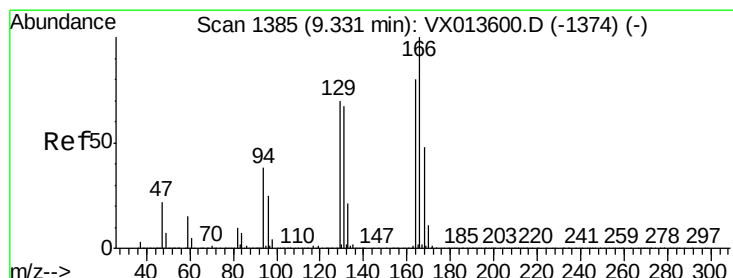
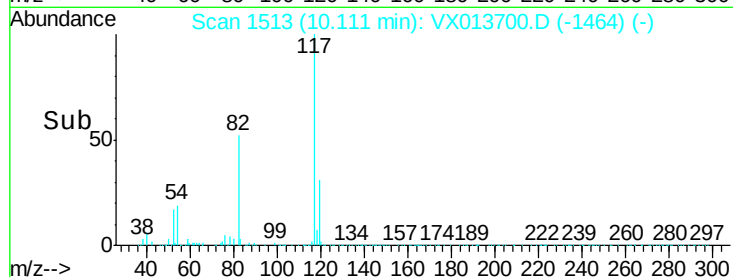
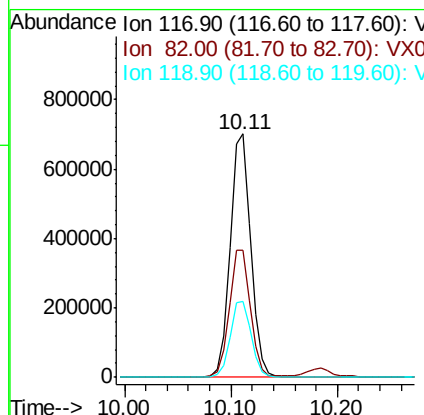
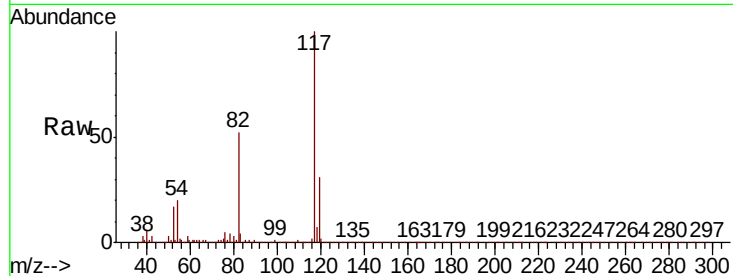
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013700.D
Acq: 29 Nov 2019 14:50

Instrument :
MSVOA_X
ClientSampled :
MW-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.9	41.8	62.8
119	31.4	25.8	38.8

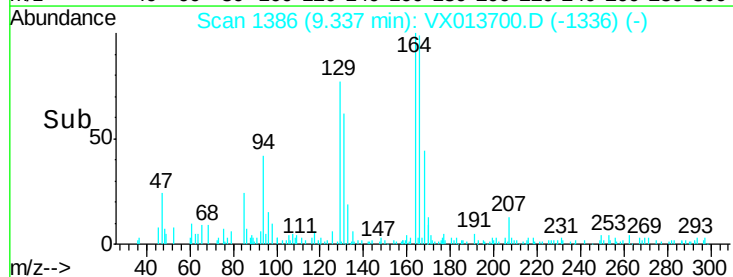
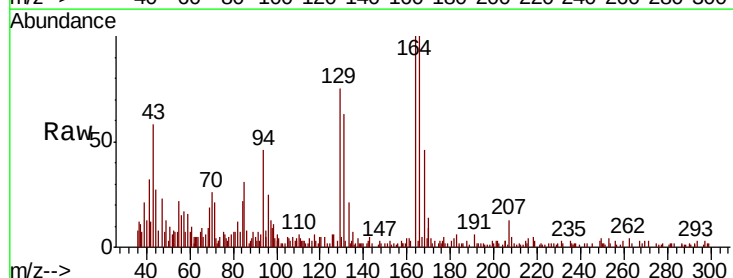
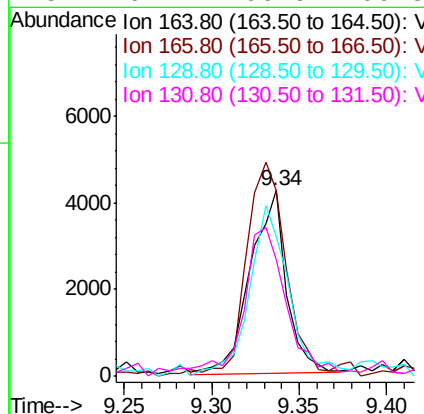
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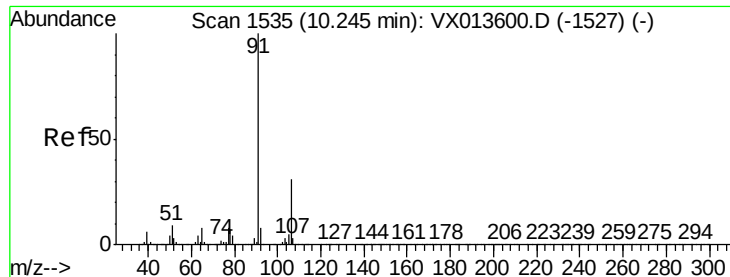
apatel
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#64
Tetrachloroethene
Concen: 0.862 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX013700.D
Acq: 29 Nov 2019 14:50

Tgt Ion	Ratio	Lower	Upper
164	100		
166	96.0	99.7	149.5#
129	72.6	70.1	105.1
131	61.7	66.9	100.3#





#67

Ethyl Benzene

Concen: 228.228 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Instrument :

MSVOA_X

ClientSampleId :

MW-2

Tot Ion: 91 Resp: 7741327

Ion Ratio Lower Upper

91 100

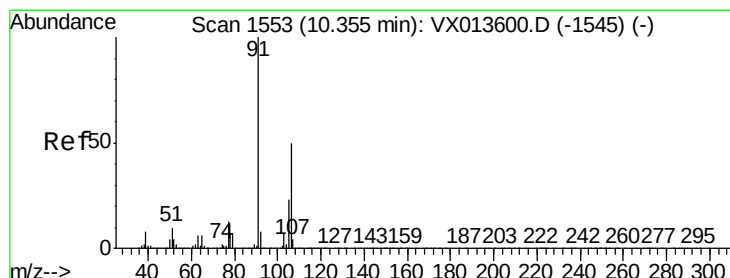
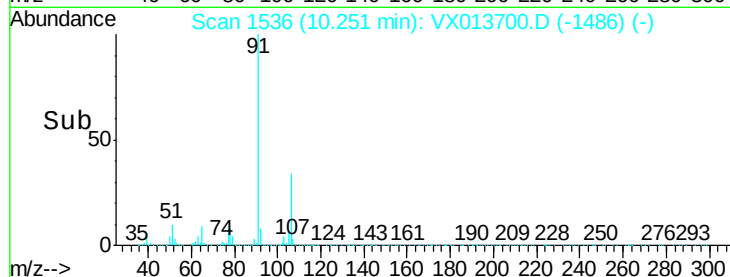
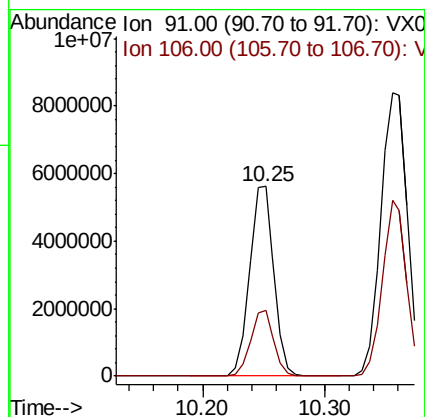
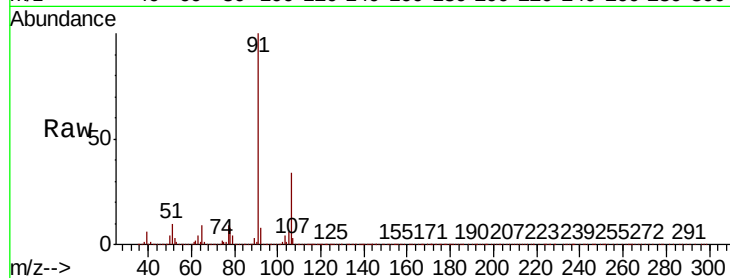
106 34.5 24.5 36.7

Manual Integrations

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#68

m/p-Xylenes

Concen: 551.006 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VX013700.D

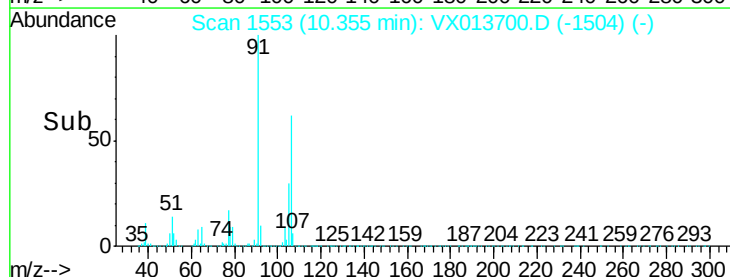
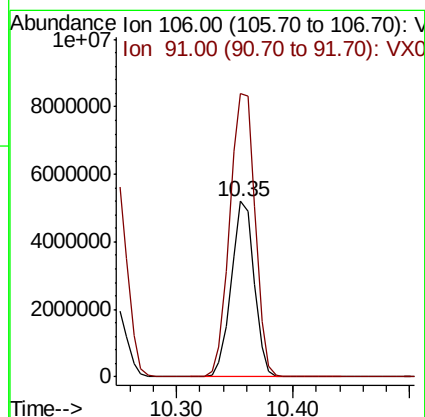
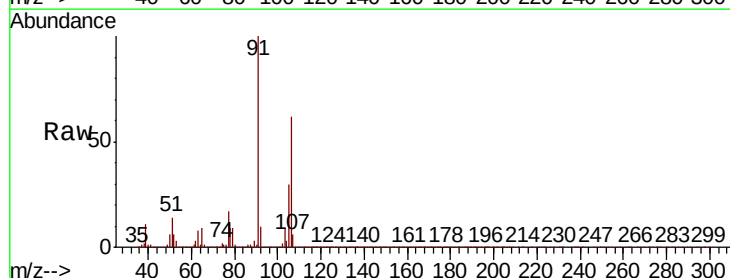
Acq: 29 Nov 2019 14:50

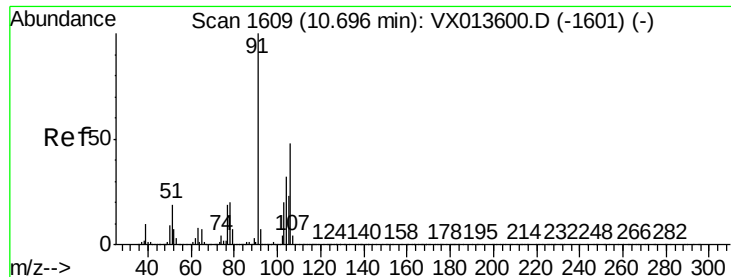
Tgt Ion: 106 Resp: 7155449

Ion Ratio Lower Upper

106 100

91 177.2 159.0 238.4





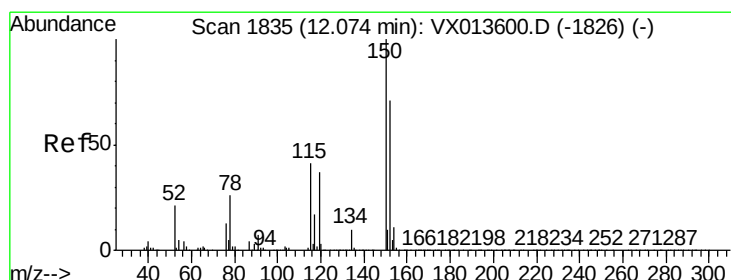
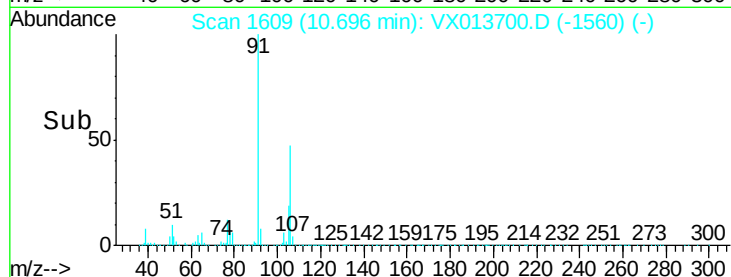
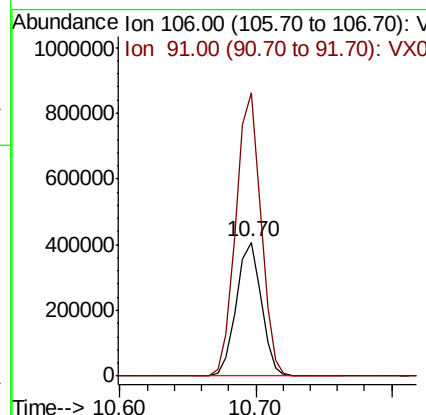
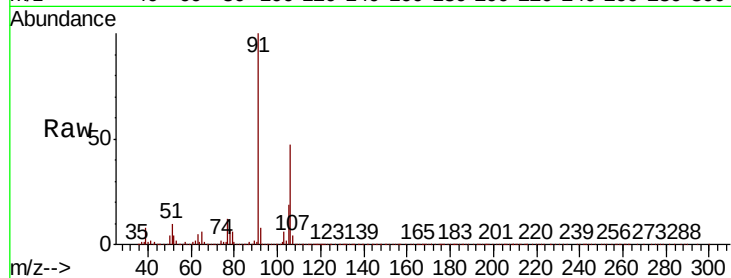
#69
o-Xylene
Concen: 41.171 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. -0.00 min
Lab File: VX013700.D
Acq: 29 Nov 2019 14:50

Instrument :
MSVOA_X
ClientSampled :
MW-2

Tot Ion	Ratio	Lower	Upper
106	100		
91	211.9	104.1	312.2

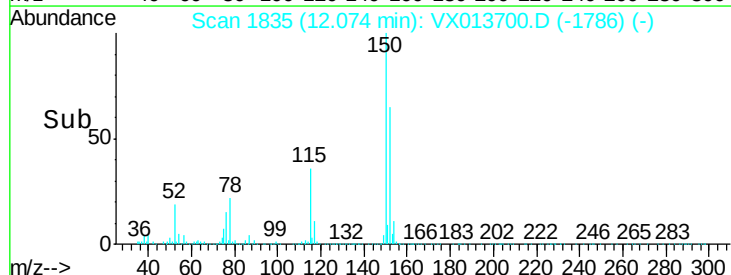
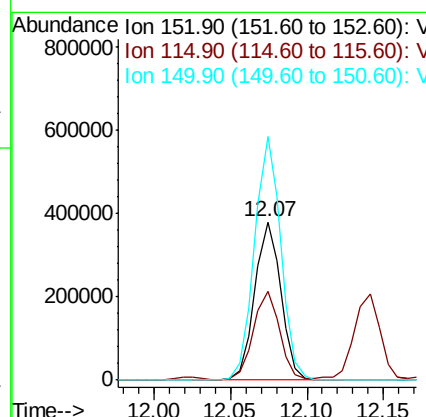
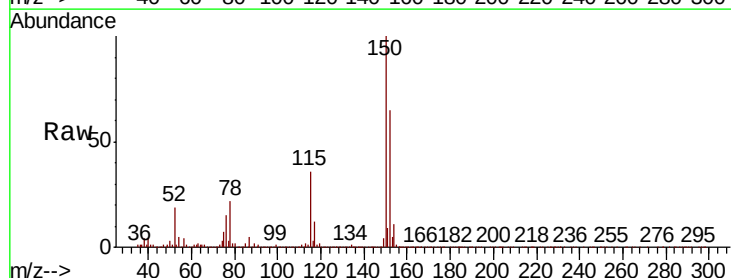
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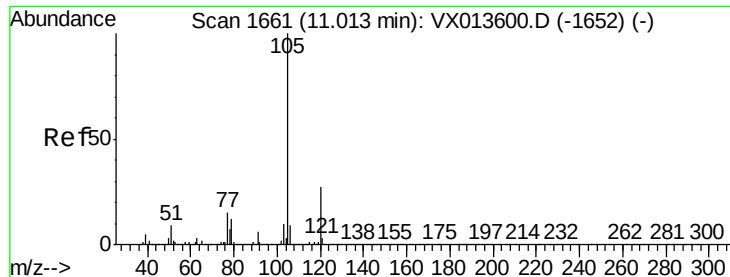
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013700.D
Acq: 29 Nov 2019 14:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	38.4	115.1
150	154.7	0.0	346.8





#73

Isopropylbenzene

Concen: 35.471 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Instrument :

MSVOA_X

ClientSampled :

MW-2

Tot Ion:105 Resp: 1120654

Ion Ratio Lower Upper

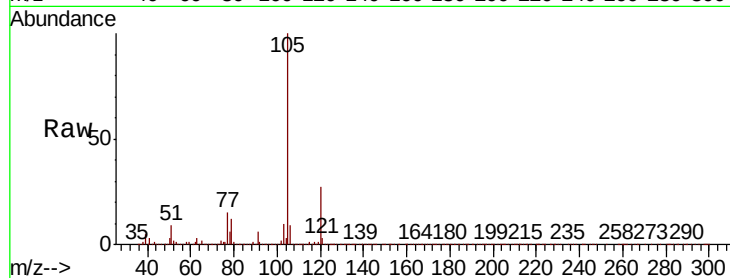
105 100

120 27.4 13.5 40.5

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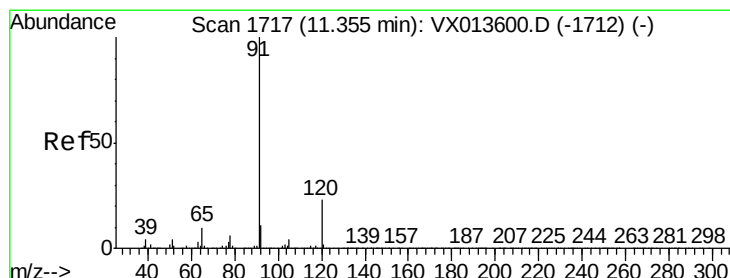
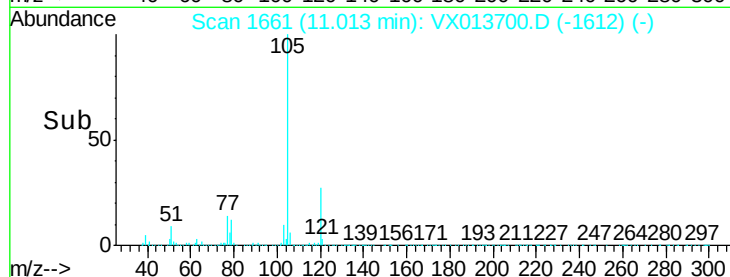
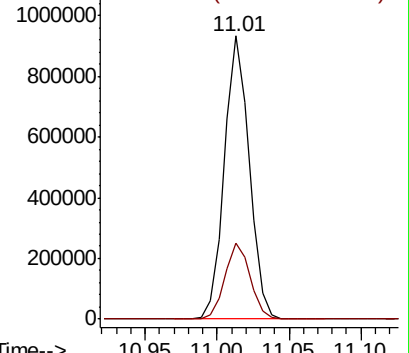
apatel

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 61.971 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013700.D

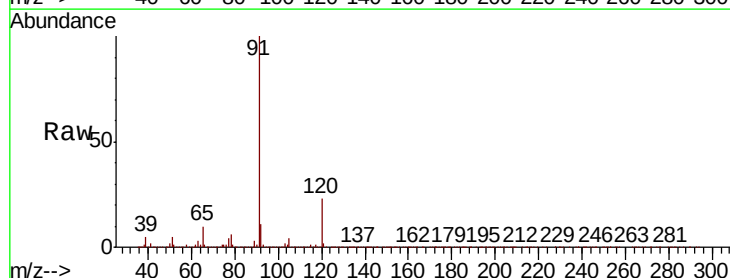
Acq: 29 Nov 2019 14:50

Tgt Ion: 91 Resp: 2185628

Ion Ratio Lower Upper

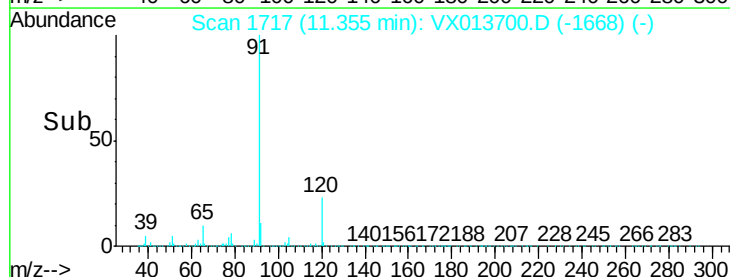
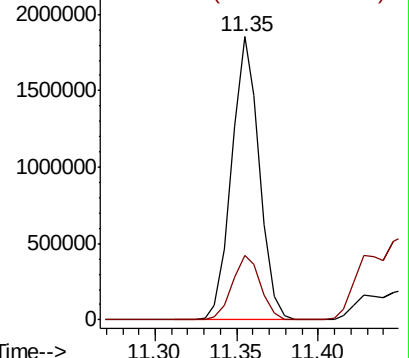
91 100

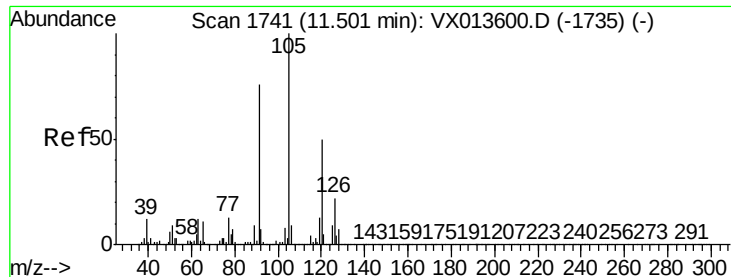
120 23.1 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 61.317 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

Instrument :

MSVOA_X

ClientSampleId :

MW-2

Tot Ion:105 Resp: 1587719

Ion Ratio Lower Upper

105 100

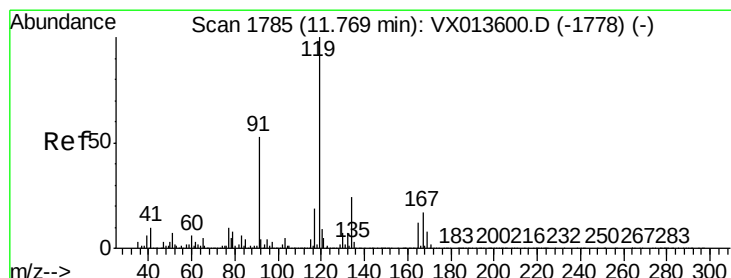
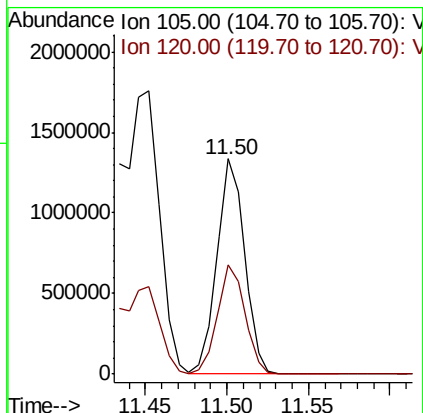
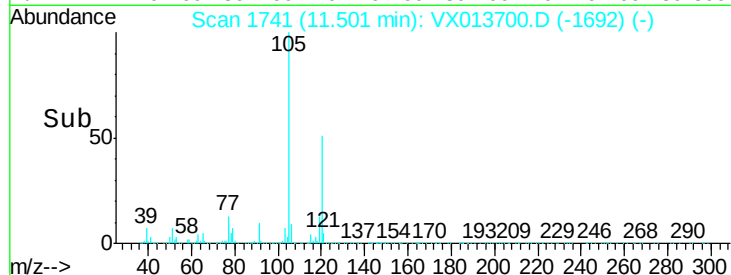
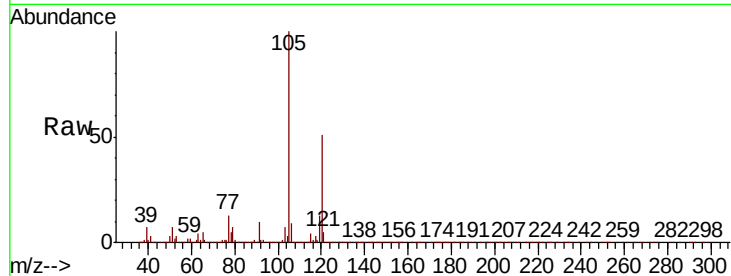
120 50.5 25.3 75.9

Manual Integrations

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#83

tert-Butylbenzene

Concen: 0.777 ug/l m

RT: 11.77 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VX013700.D

Acq: 29 Nov 2019 14:50

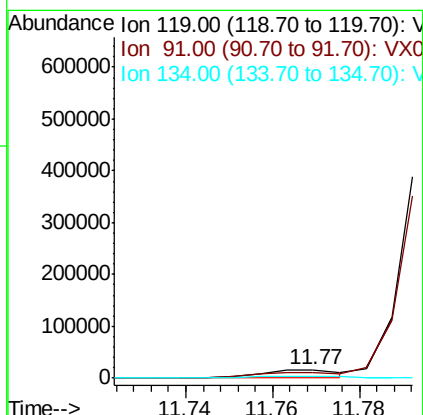
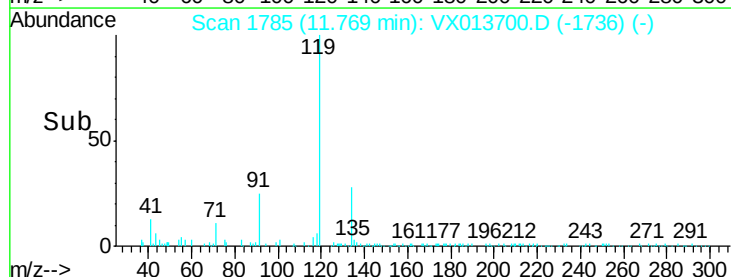
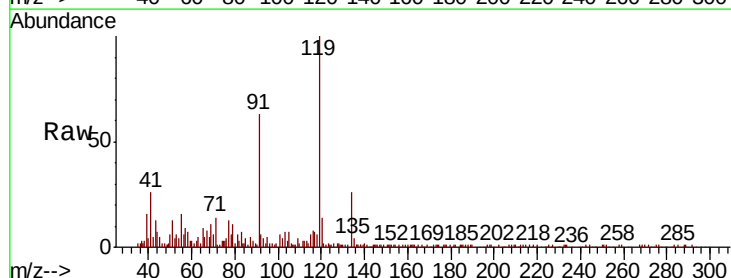
Tgt Ion:119 Resp: 20457

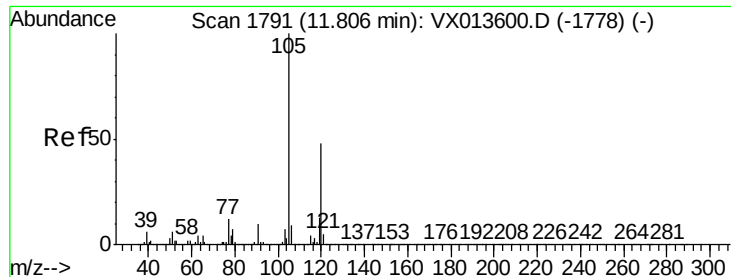
Ion Ratio Lower Upper

119 100

91 0.0 27.2 81.6#

134 0.0 11.7 35.1#





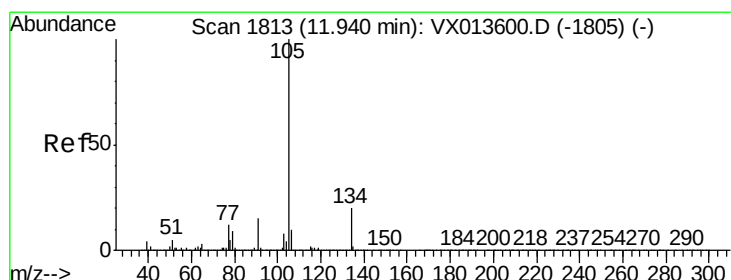
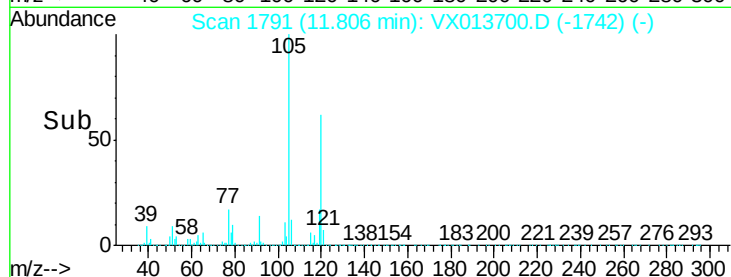
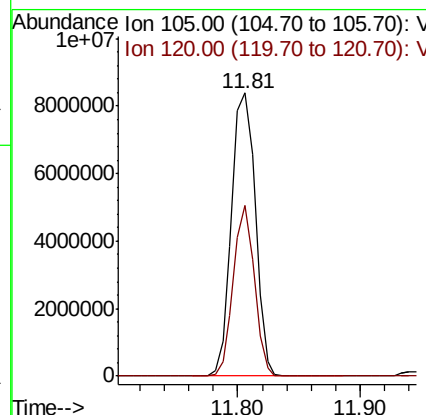
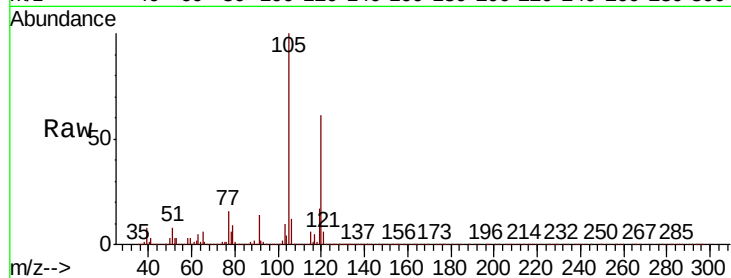
#84
 1,2,4-Trimethylbenzene
 Concen: 428.591 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. -0.00 min
 Lab File: VX013700.D
 Acq: 29 Nov 2019 14:50

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

Tot Ion:105 Resp:11263255
 Ion Ratio Lower Upper
 105 100
 120 53.4 23.1 69.3

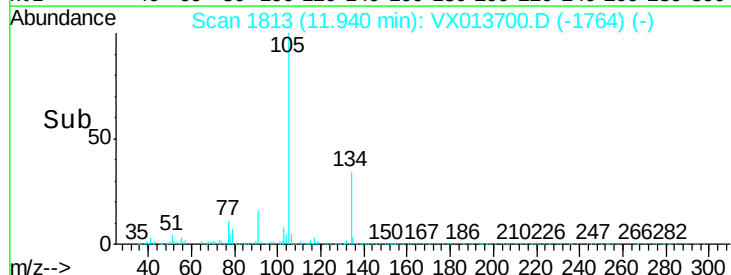
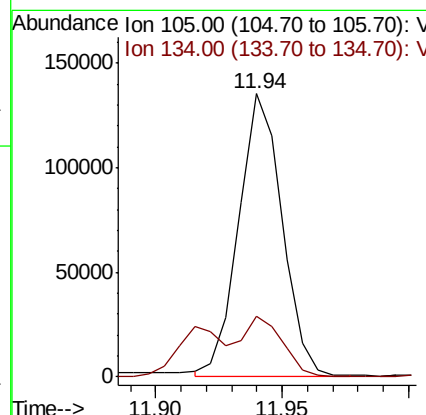
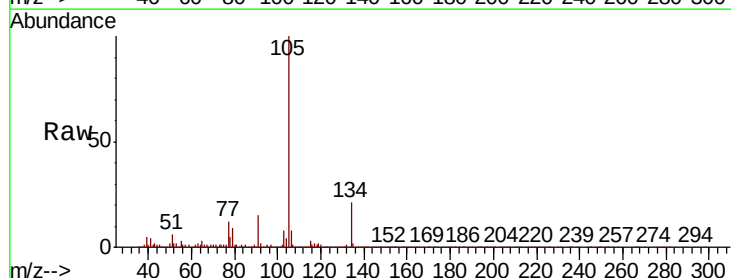
Manual Integrations
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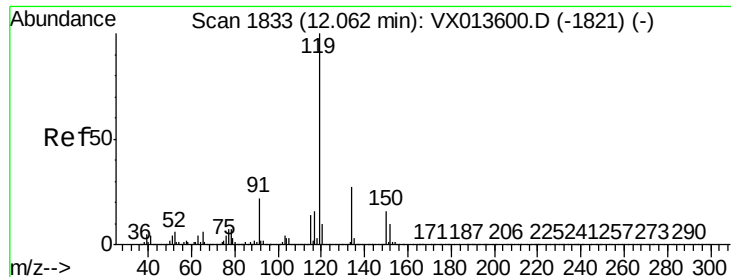
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#85
 sec-Butylbenzene
 Concen: 5.439 ug/l m
 RT: 11.94 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VX013700.D
 Acq: 29 Nov 2019 14:50

Tgt Ion:105 Resp: 163487
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#





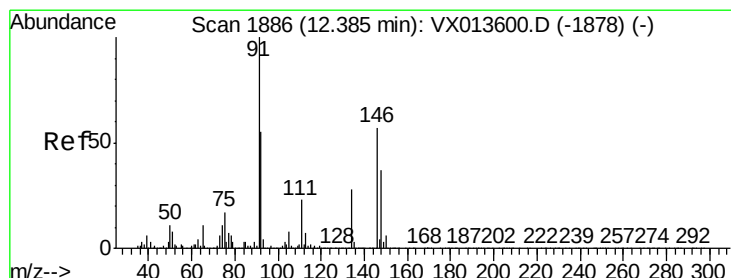
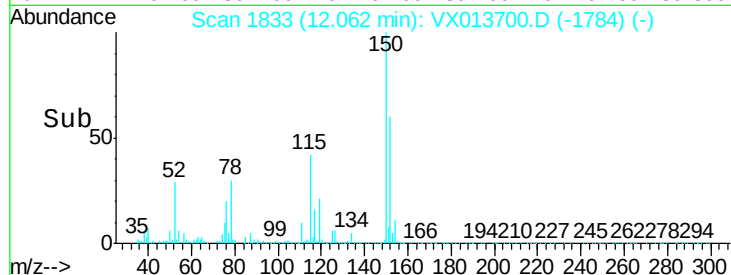
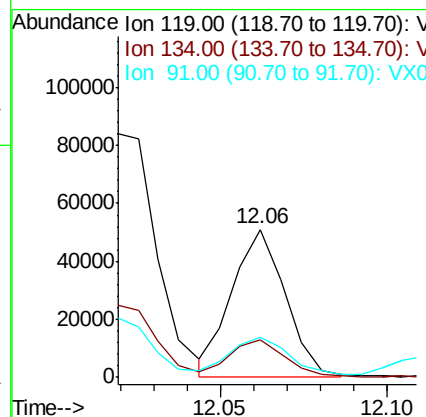
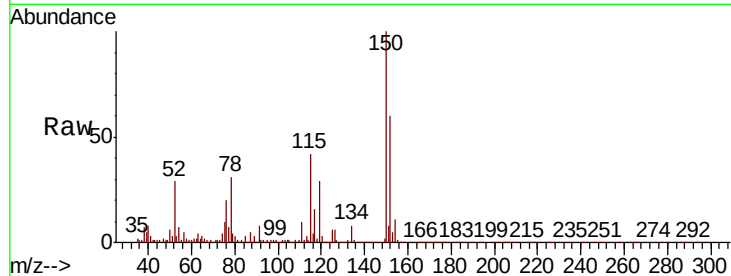
#86
p-Isopropyltoluene
Concen: 2.022 ug/l m
RT: 12.06 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VX013700.D
Acq: 29 Nov 2019 14:50

Instrument :
MSVOA_X
ClientSampled :
MW-2

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.3	39.9#
91	0.0	11.3	33.8#

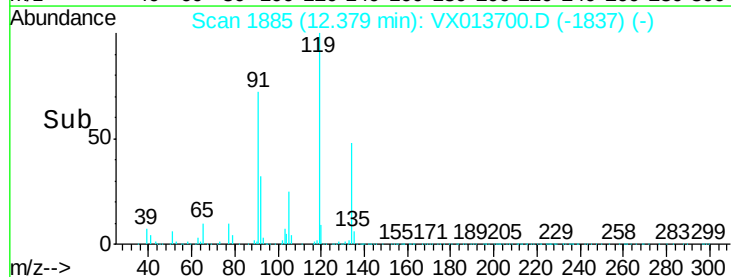
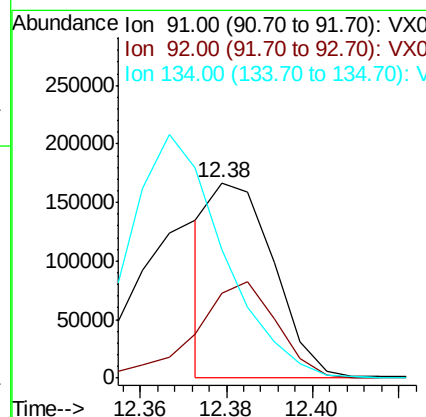
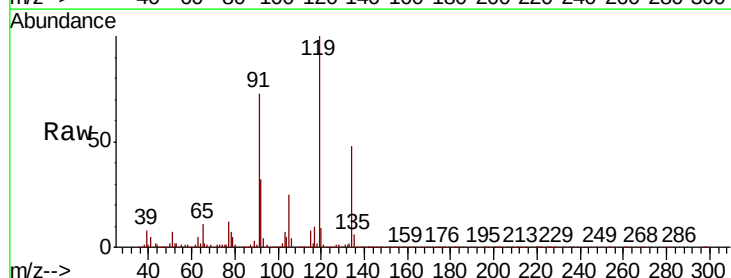
Manual Integrations
APPROVED

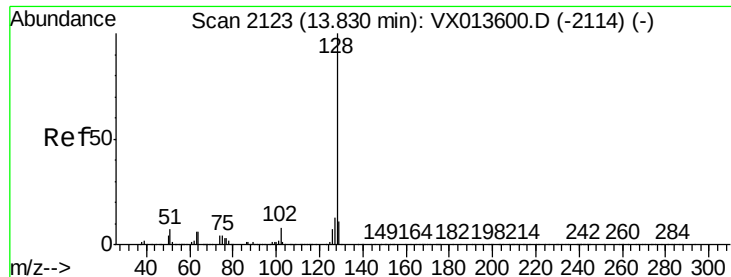
apatel
12/2/2019 12:47:59 PM



#89
n-Butylbenzene
Concen: 7.110 ug/l m
RT: 12.38 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX013700.D
Acq: 29 Nov 2019 14:50

Tgt Ion	Ratio	Lower	Upper
91	100		
92	64.4	27.4	82.2
134	186.5	13.5	40.4#





#95
Naphthalene
Concen: 191.078 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX013700.D
Acq: 29 Nov 2019 14:50

Instrument :
MSVOA_X
ClientSampleId :
MW-2

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	11.6	8.7	13.1

Manual Integrations
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