

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121118\
 Data File : VX006421.D
 Acq On : 11 Dec 2018 15:31
 Operator : JC/MD
 Sample : J6334-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B2-121018

Manual Integrations
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Quant Time: Dec 12 05:44:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	809234	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1226929	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	1139111	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	550838	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	399423	48.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.70%	
35) Dibromofluoromethane	5.51	113	375825	47.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.62%	
50) Toluene-d8	8.71	98	1459385	50.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	11.13	95	554746	50.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.90%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	3.06	59	26473m	11.718	ug/l	
16) Acetone	2.45	43	895089	230.882	ug/l	99
25) 2-Butanone	4.70	43	580077	104.865	ug/l	100
31) Cyclohexane	5.58	56	1420739	119.046	ug/l	96
39) Methylcyclohexane	7.46	83	2150698	160.364	ug/l	99
40) Benzene	6.15	78	478746	15.471	ug/l	99
51) 4-Methyl-2-Pentanone	8.65	43	85156m	7.583	ug/l	
52) Toluene	8.79	92	153725	7.551	ug/l	98
59) 2-Hexanone	9.49	43	133534	15.563	ug/l	100
67) Ethyl Benzene	10.25	91	102426m	2.547	ug/l	
68) m/p-Xylenes	10.36	106	6281751	389.929	ug/l	92
69) o-Xylene	10.70	106	2818069	177.094	ug/l	100
73) Isopropylbenzene	11.02	105	94449	2.483	ug/l	100
78) n-propylbenzene	11.36	91	93053	2.201	ug/l #	50
80) 1,3,5-Trimethylbenzene	11.51	105	10782520	340.674	ug/l	96
83) tert-Butylbenzene	11.77	119	53608m	1.587	ug/l	
84) 1,2,4-Trimethylbenzene	11.80	105	16738792m	512.171	ug/l	
85) sec-Butylbenzene	11.94	105	136358m	3.549	ug/l	
86) p-Isopropyltoluene	12.07	119	651040	18.819	ug/l	99
95) Naphthalene	13.83	128	13196116	311.905	ug/l #	89

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006421.D

Acq: 11 Dec 2018 15:31

Instrument :

MSVOA_X

ClientSampleId :

B2-121018

Tot Ion:168 Resp: 809234

Ion Ratio Lower Upper

168 100

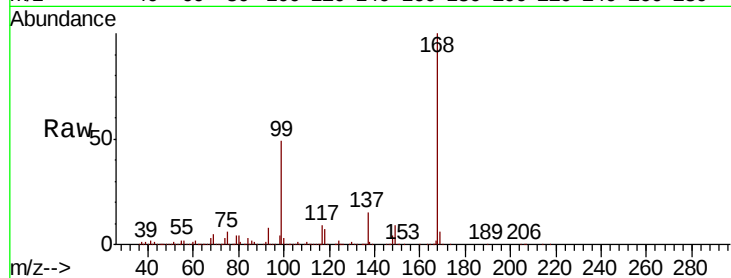
99 49.3 37.8 56.8

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

300000

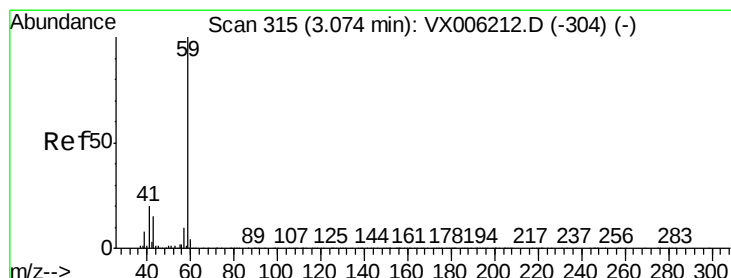
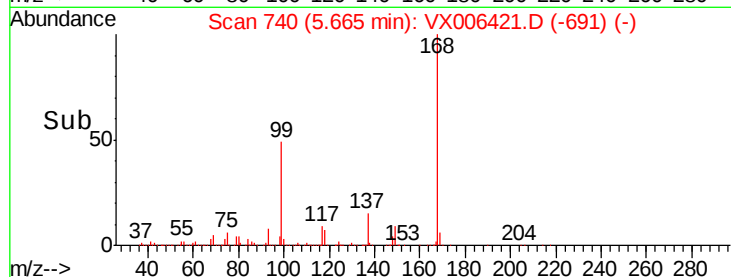
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 11.718 ug/l m

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX006421.D

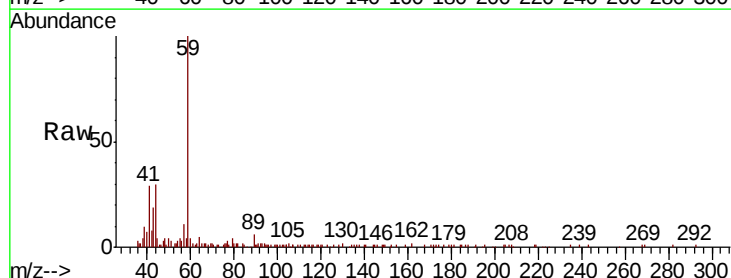
Acq: 11 Dec 2018 15:31

Tgt Ion: 59 Resp: 26473

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

50000

40000

30000

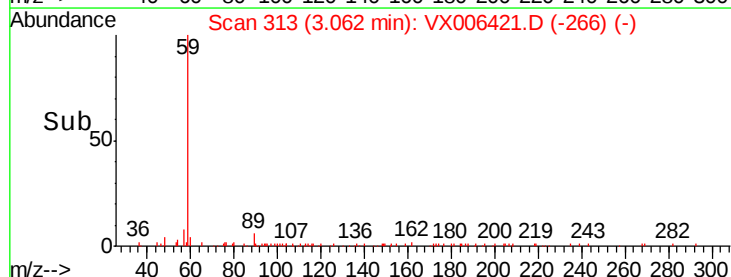
20000

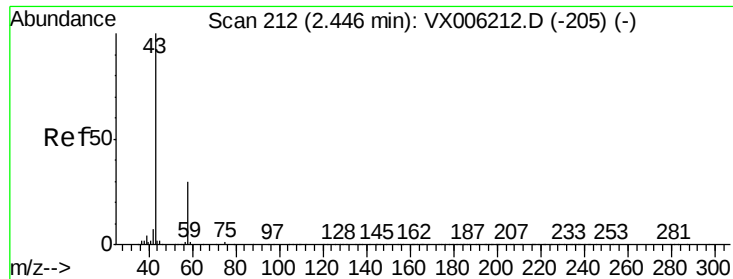
10000

0

Time-->

3.05 3.10





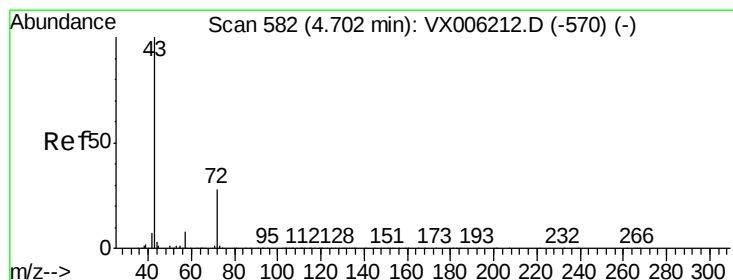
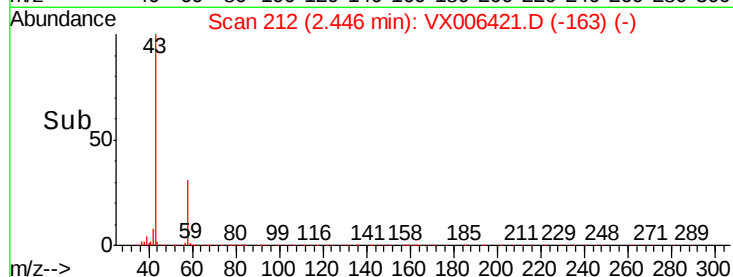
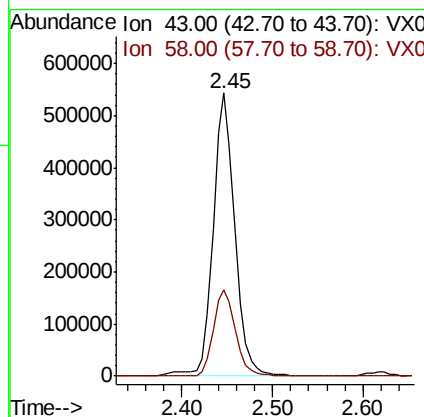
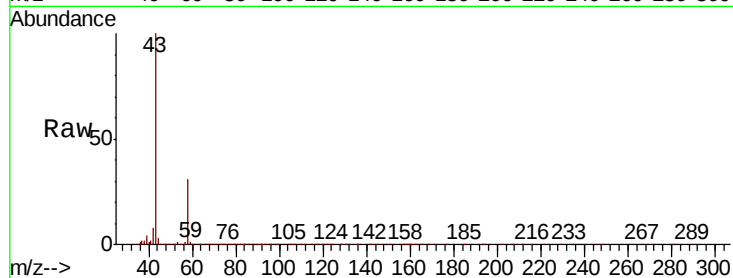
#16
Acetone
Concen: 230.882 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Instrument :
MSVOA_X
ClientSampleId :
B2-121018

Tot Ion	43	Resp	895089
Ion Ratio	100	Lower	Upper
43	100		
58	30.6	24.0	36.0

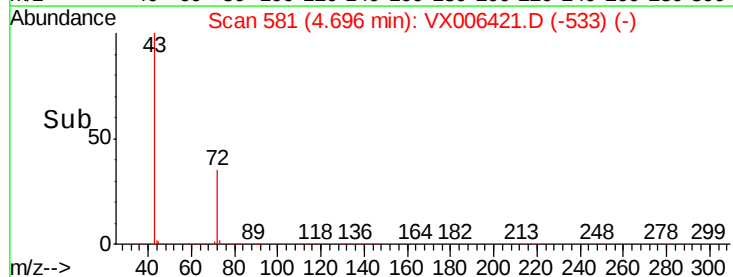
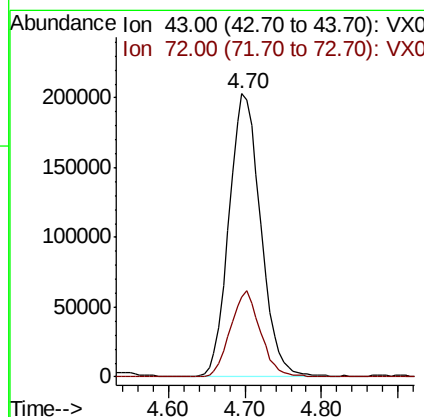
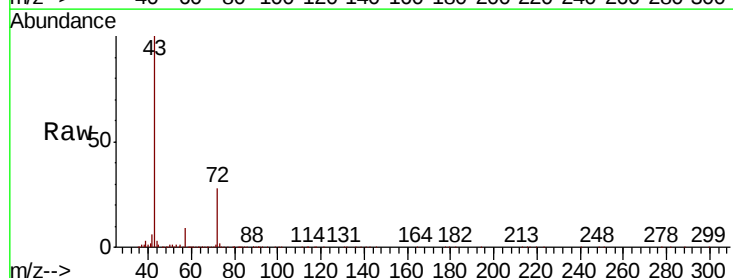
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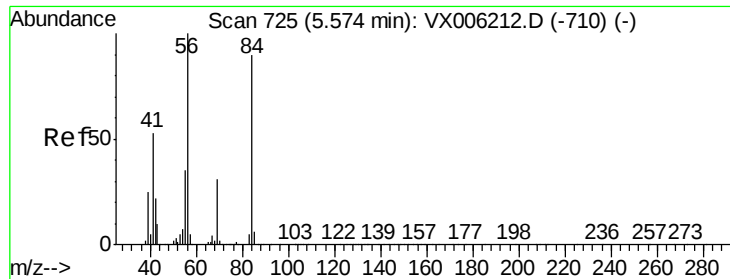
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#25
2-Butanone
Concen: 104.865 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Tgt Ion	43	Resp	580077
Ion Ratio	100	Lower	Upper
43	100		
72	28.1	22.6	33.8





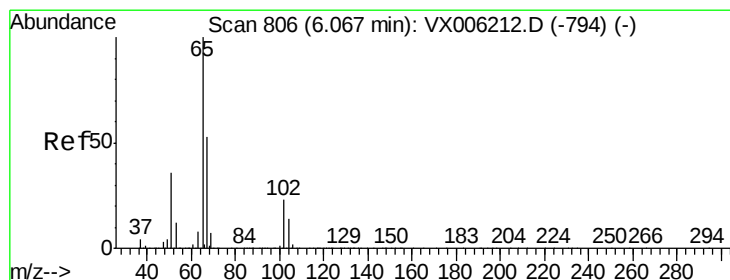
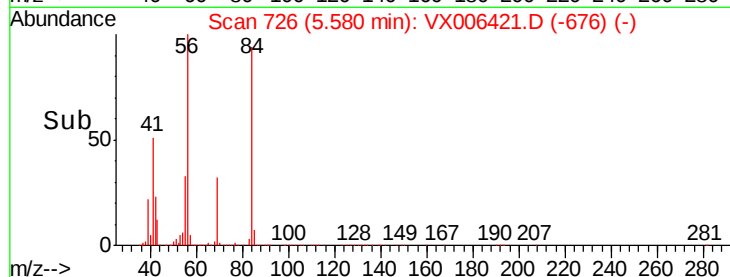
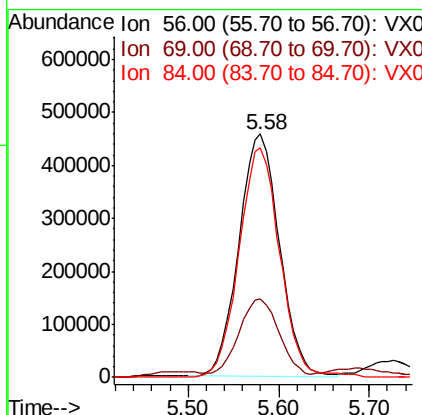
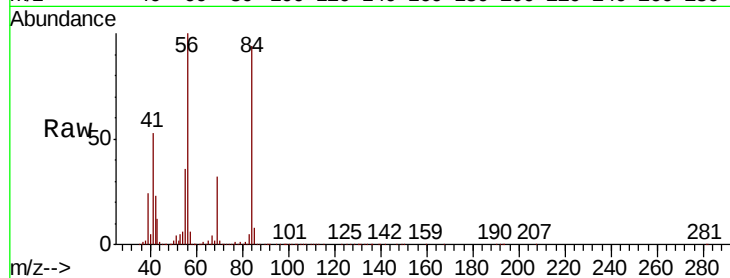
#31
Cyclohexane
Concen: 119.046 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.01 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Instrument :
MSVOA_X
ClientSampleId :
B2-121018

Tot Ion: 56 Resp: 1420739
Ion Ratio Lower Upper
56 100
69 30.2 24.5 36.7
84 94.7 71.8 107.6

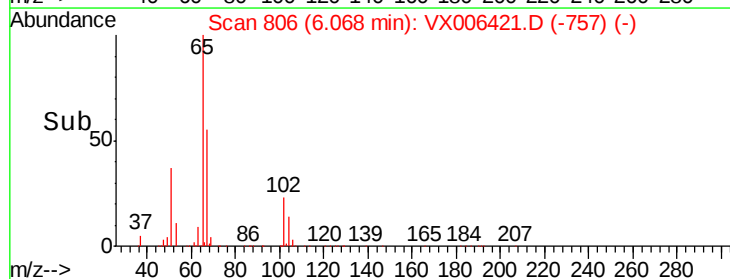
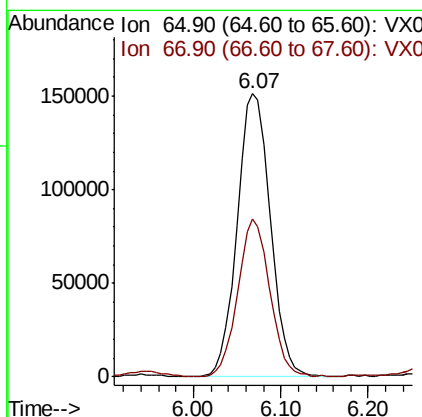
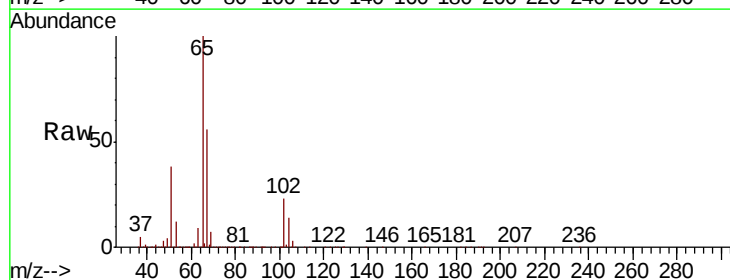
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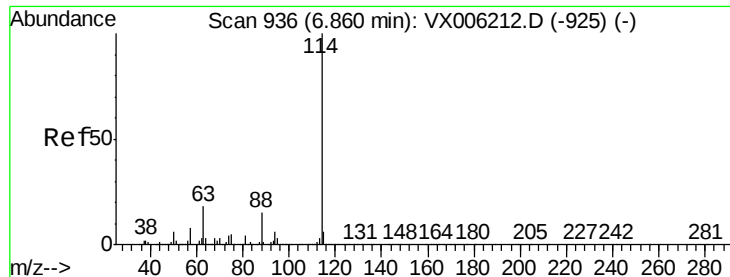
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#33
1,2-Dichloroethane-d4
Concen: 48.351 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Tgt Ion: 65 Resp: 399423
Ion Ratio Lower Upper
65 100
67 53.7 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006421.D

Acq: 11 Dec 2018 15:31

Instrument :

MSVOA_X

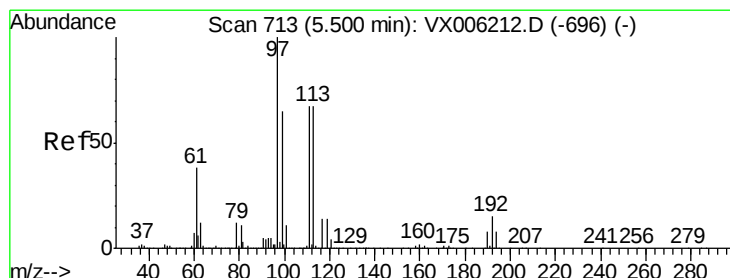
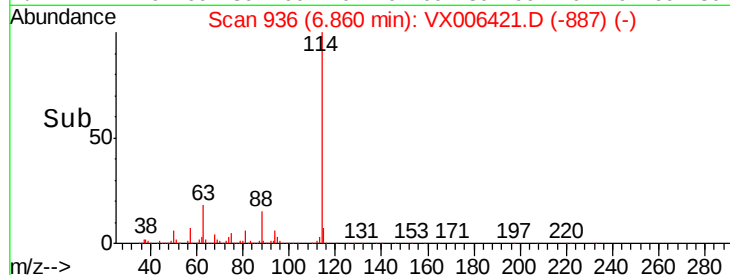
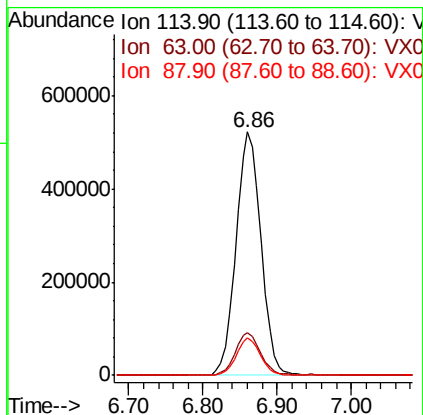
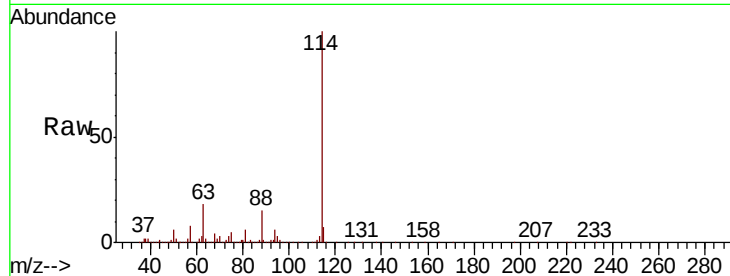
ClientSampleId :

B2-121018

Tot Ion:	114	Resp:	1226929
Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	36.6
88	15.2	0.0	29.0

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#35

Dibromofluoromethane

Concen: 47.310 ug/l

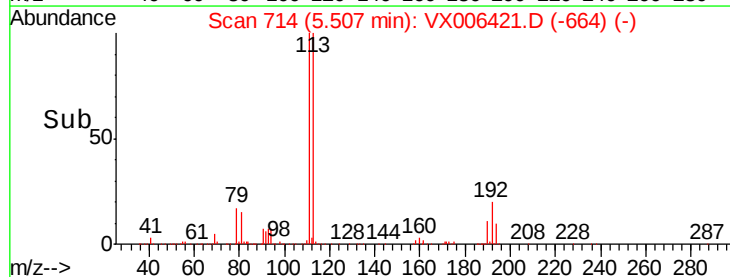
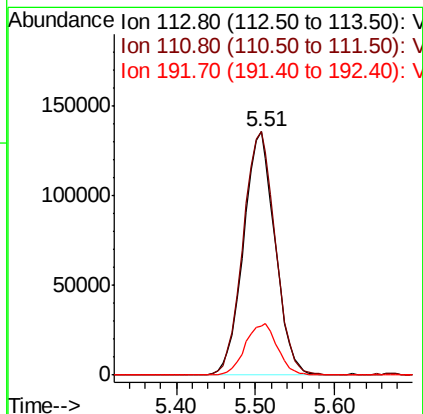
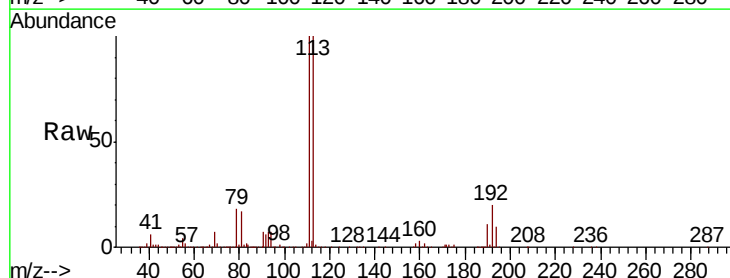
RT: 5.51 min Scan# 714

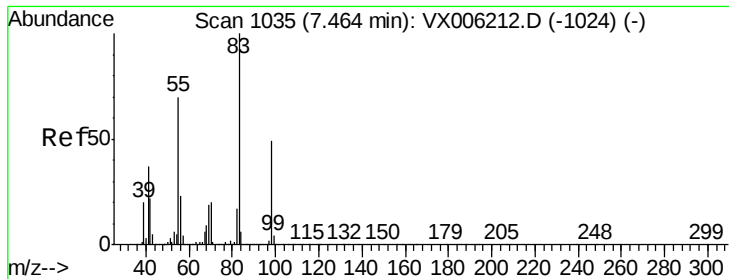
Delta R.T. 0.01 min

Lab File: VX006421.D

Acq: 11 Dec 2018 15:31

Tgt Ion:	113	Resp:	375825
Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.1	121.7
192	21.6	18.2	27.2





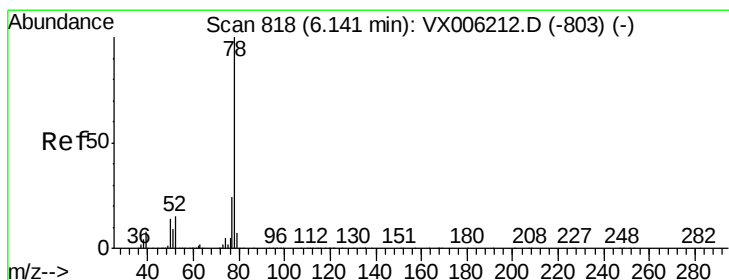
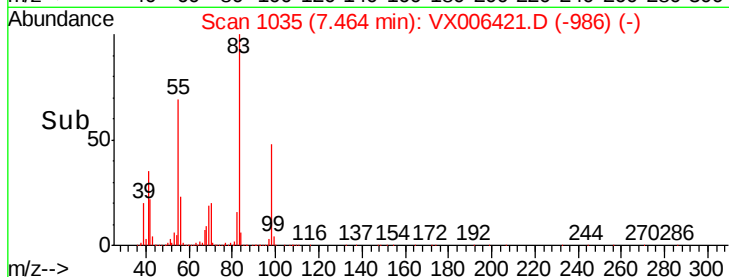
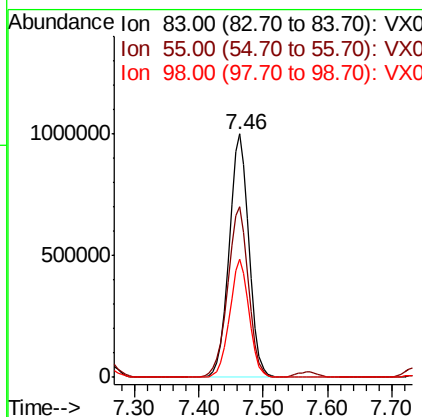
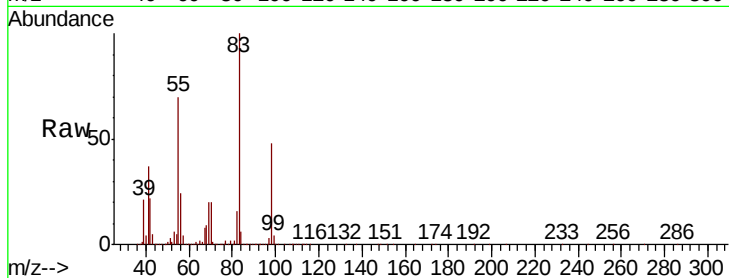
#39
Methvlcvclohexane
Concen: 160.364 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Instrument :
MSVOA_X
ClientSampleId :
B2-121018

Tot Ion	Ratio	Lower	Upper
83	100		
55	69.8	56.4	84.6
98	48.3	39.0	58.6

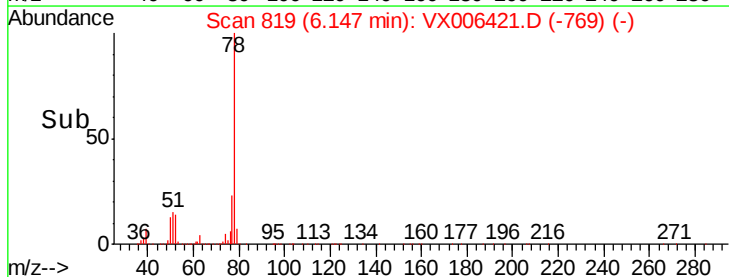
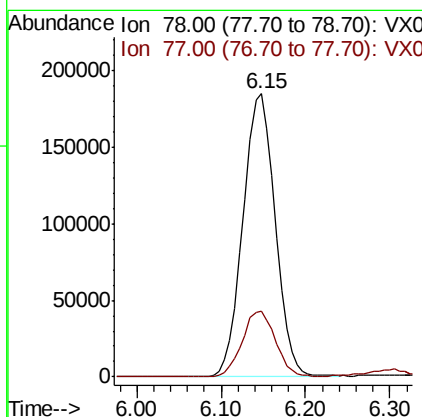
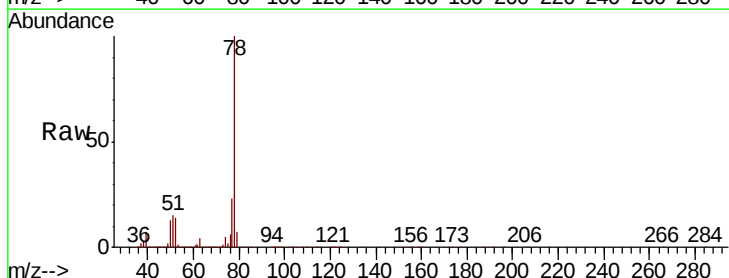
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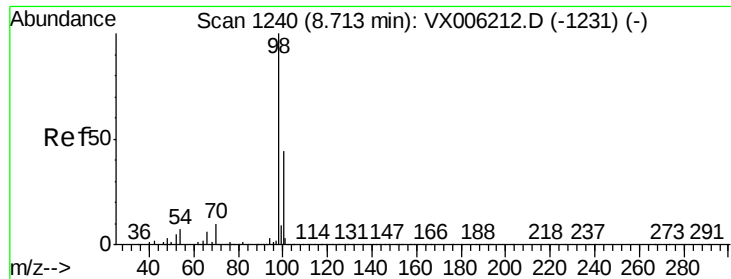
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#40
Benzene
Concen: 15.471 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.2	28.8





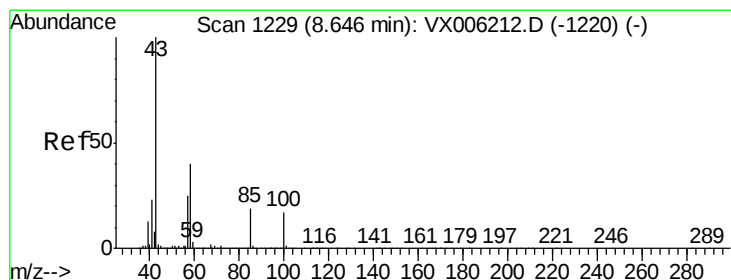
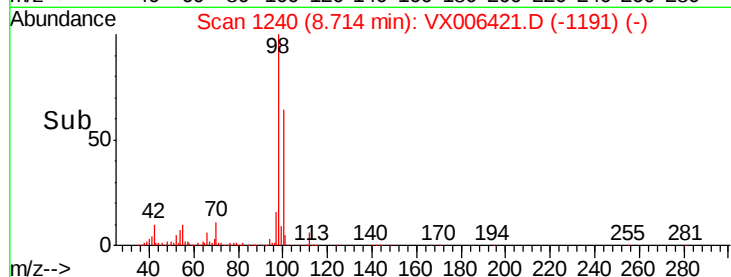
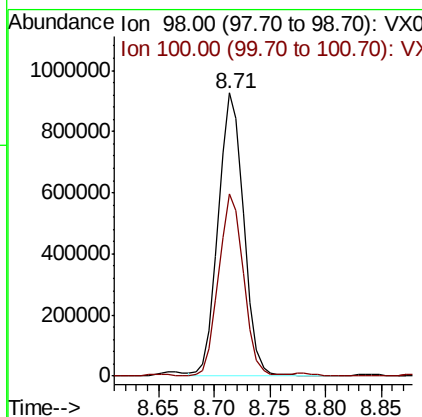
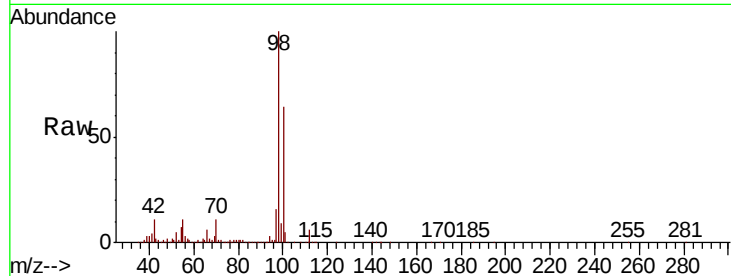
#50
Toluene-d8
Concen: 50.506 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Instrument :
MSVOA_X
ClientSampled :
B2-121018

Tot Ion: 98 Resp: 1459385
Ion Ratio Lower Upper
98 100
100 63.1 52.2 78.2

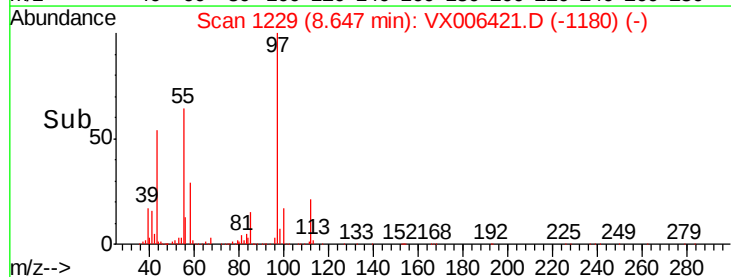
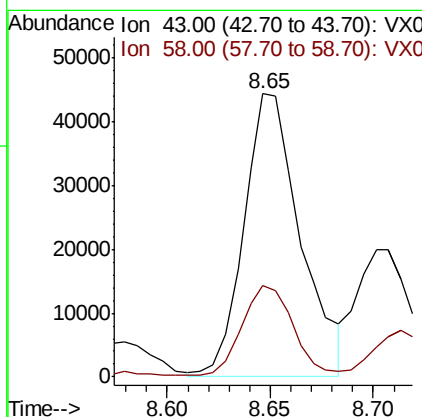
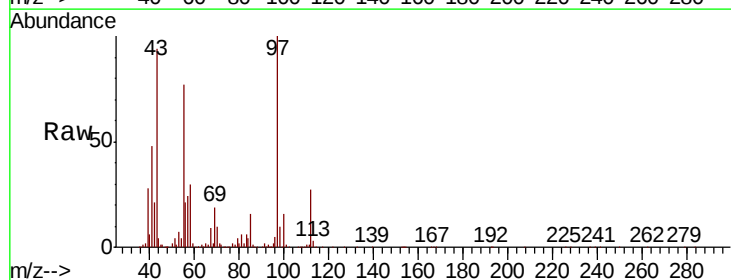
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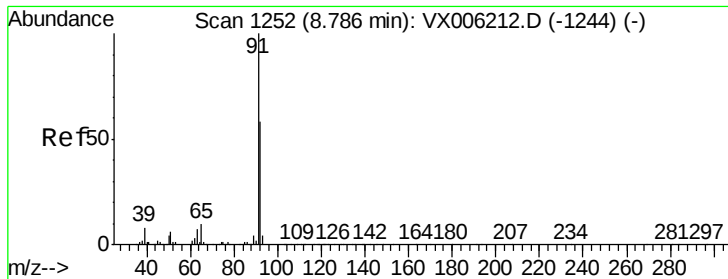
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#51
4-Methyl-2-Pentanone
Concen: 7.583 ug/l m
RT: 8.65 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Tgt Ion: 43 Resp: 85156
Ion Ratio Lower Upper
43 100
58 14.1 31.3 46.9#





#52

Toluene

Concen: 7.551 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX006421.D

Acq: 11 Dec 2018 15:31

Instrument :

MSVOA_X

ClientSampleId :

B2-121018

Tot Ion: 92 Resp: 153725

Ion Ratio Lower Upper

92 100

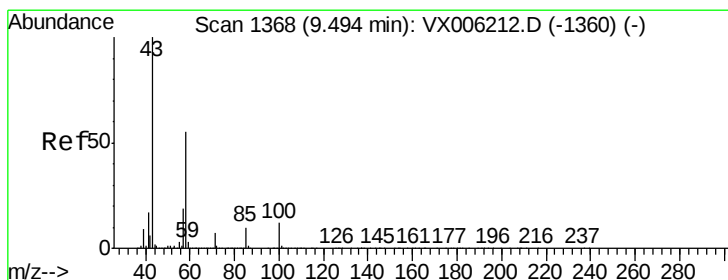
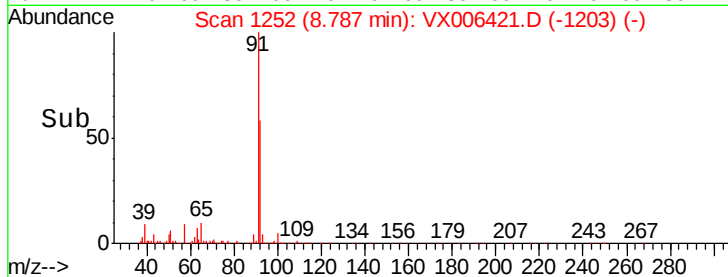
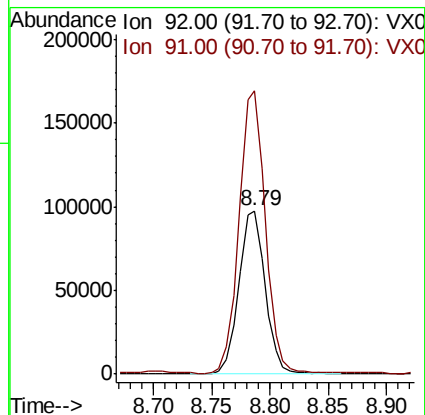
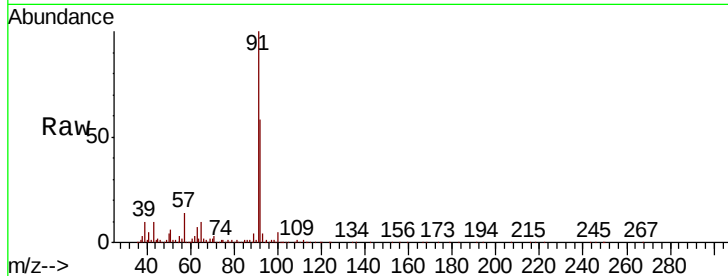
91 171.9 139.2 208.8

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#59

2-Hexanone

Concen: 15.563 ug/l

RT: 9.49 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VX006421.D

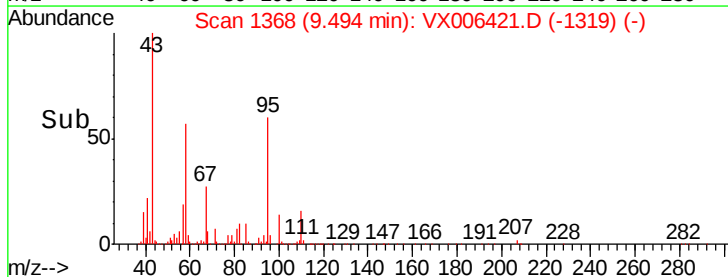
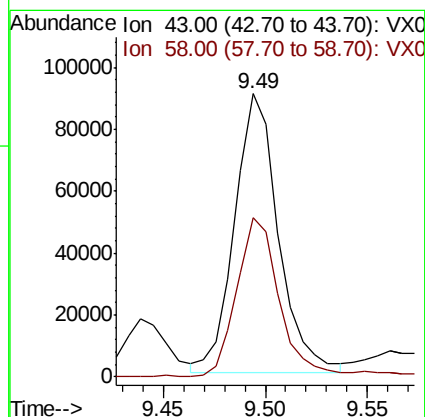
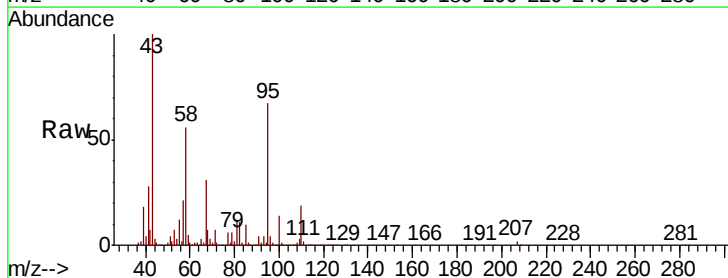
Acq: 11 Dec 2018 15:31

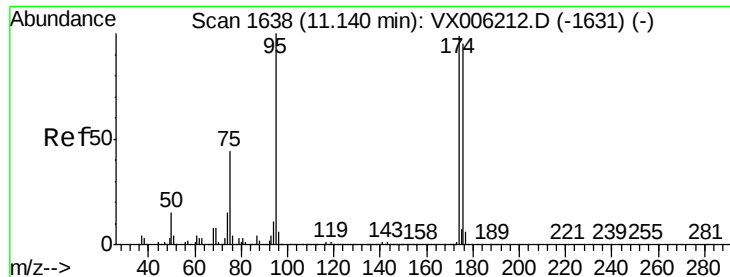
Tgt Ion: 43 Resp: 133534

Ion Ratio Lower Upper

43 100

58 55.1 27.7 83.1





#62

4-Bromofluorobenzene

Concen: 50.948 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006421.D

Acq: 11 Dec 2018 15:31

Instrument :

MSVOA_X

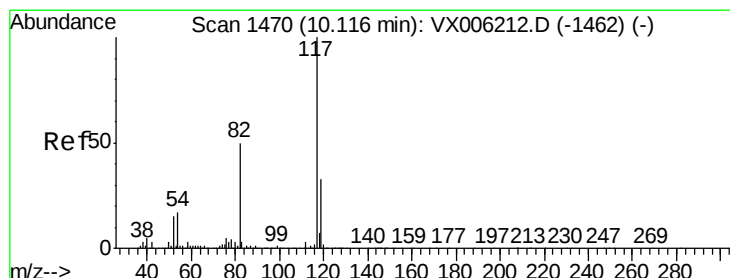
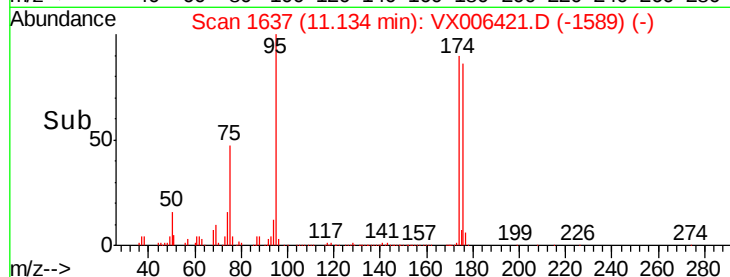
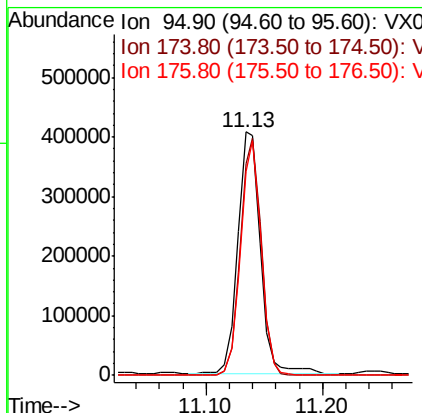
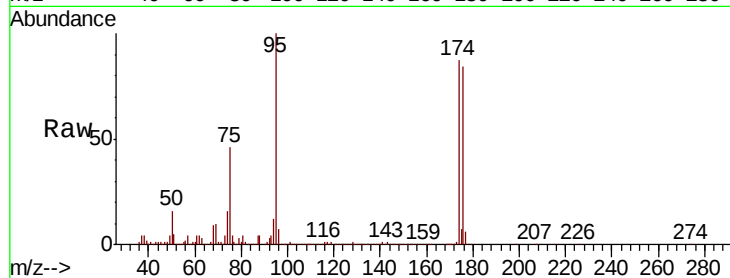
ClientSampleId :

B2-121018

Tot Ion:	95	Resp:	554746
Ion Ratio	Lower	Upper	
95	100		
174	89.8	0.0	187.0
176	87.2	0.0	181.8

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

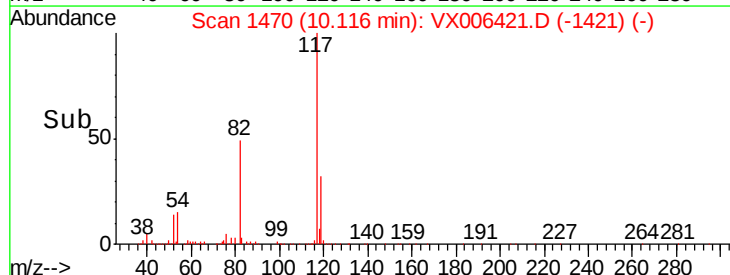
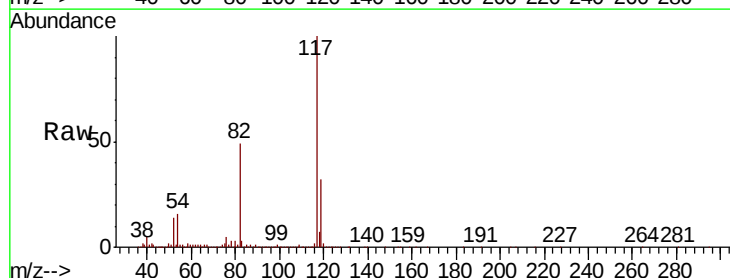
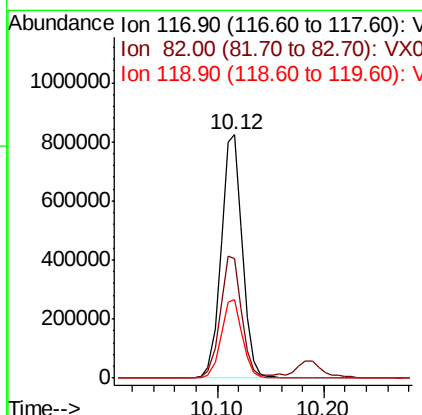
RT: 10.12 min Scan# 1470

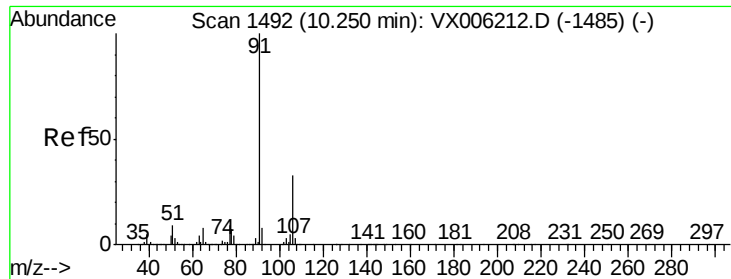
Delta R.T. 0.00 min

Lab File: VX006421.D

Acq: 11 Dec 2018 15:31

Tgt Ion:	117	Resp:	1139111
Ion Ratio	Lower	Upper	
117	100		
82	48.7	39.6	59.4
119	32.1	26.3	39.5





#67

Ethyl Benzene

Concen: 2.547 ug/l m

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX006421.D

Acq: 11 Dec 2018 15:31

Instrument :

MSVOA_X

ClientSampleId :

B2-121018

Tot Ion: 91 Resp: 102426

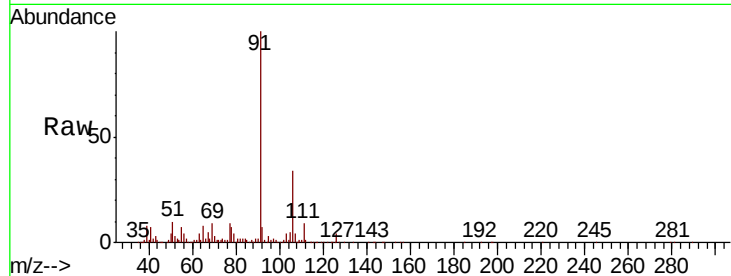
Ion Ratio Lower Upper

91 100

106 33.8 26.5 39.7

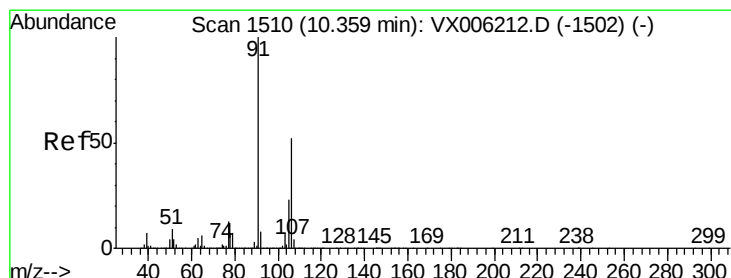
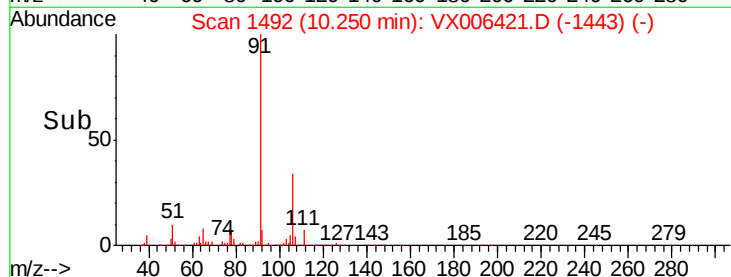
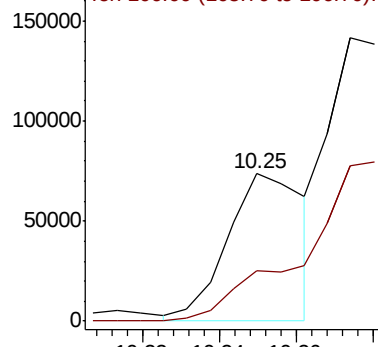
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Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 389.929 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX006421.D

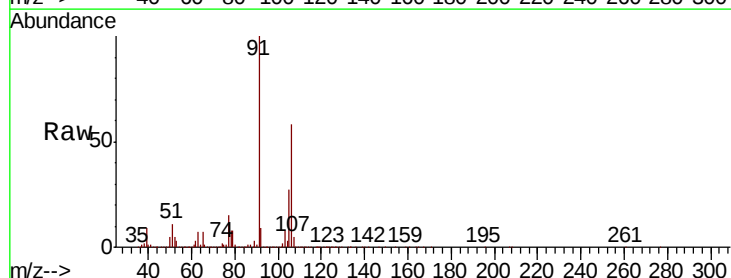
Acq: 11 Dec 2018 15:31

Tgt Ion:106 Resp: 6281751

Ion Ratio Lower Upper

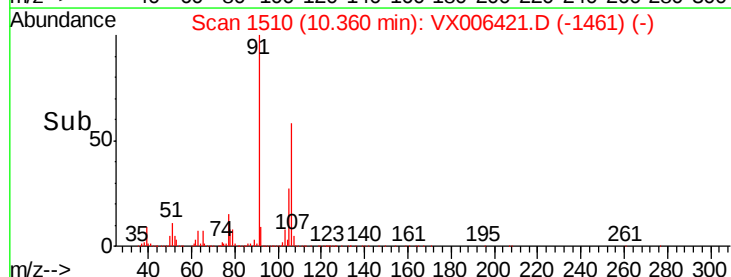
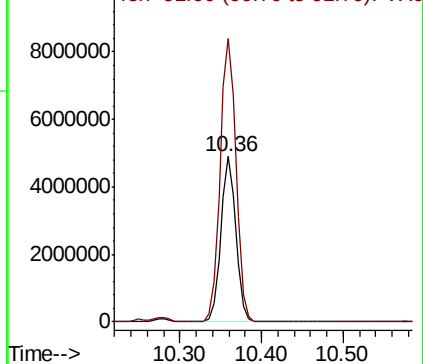
106 100

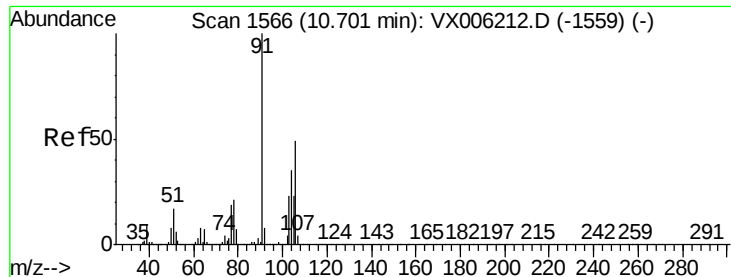
91 182.8 155.2 232.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





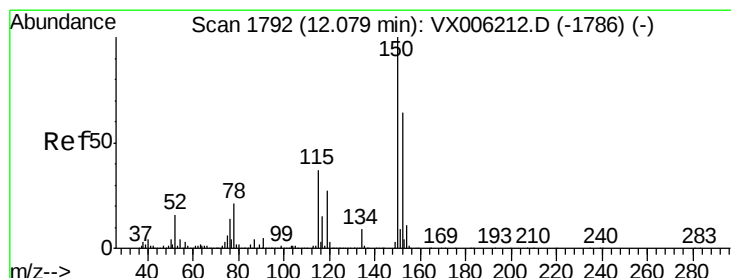
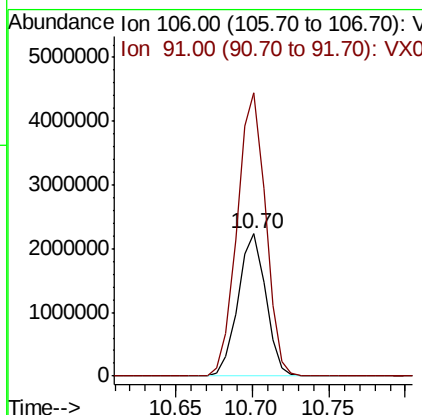
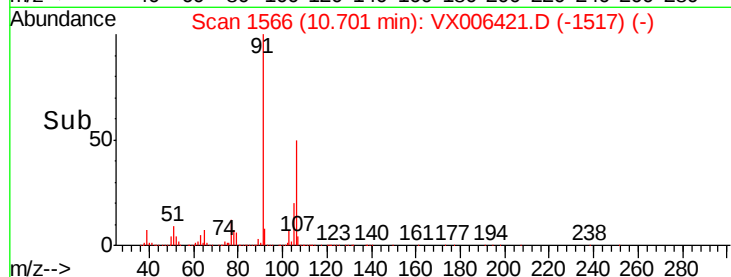
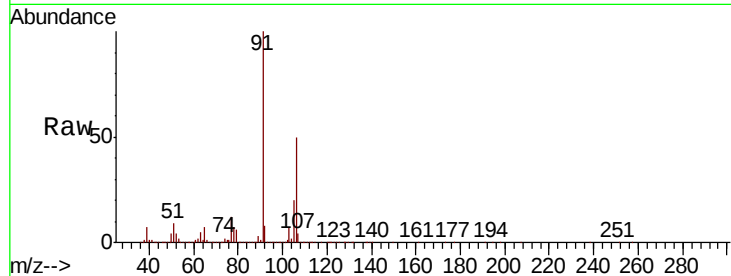
#69
o-Xylene
Concen: 177.094 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Instrument :
MSVOA_X
ClientSampleId :
B2-121018

Tot Ion:106 Resp: 2818069
Ion Ratio Lower Upper
106 100
91 203.6 101.8 305.6

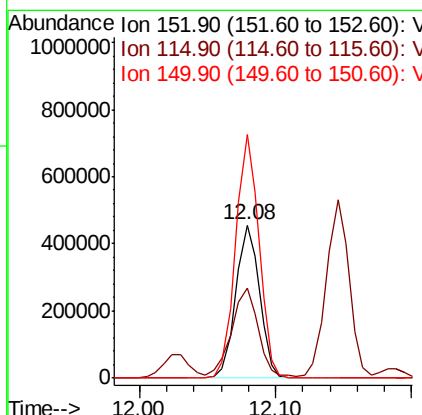
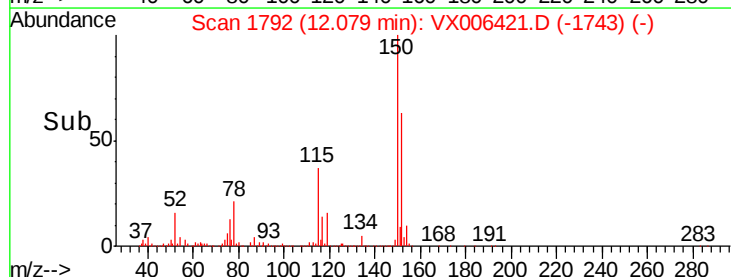
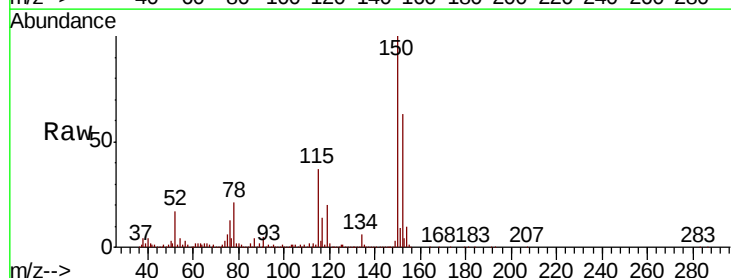
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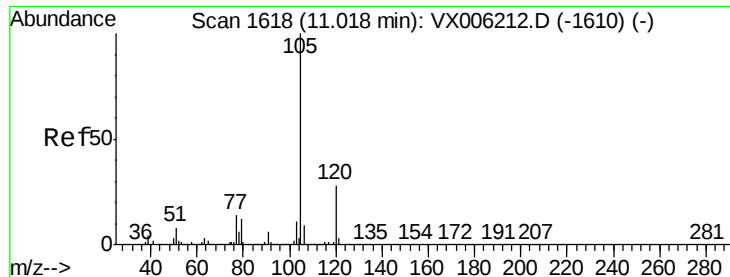
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Tgt Ion:152 Resp: 550838
Ion Ratio Lower Upper
152 100
115 64.5 39.0 116.9
150 157.5 0.0 345.8





#73

Isopropylbenzene

Concen: 2.483 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX006421.D

Acq: 11 Dec 2018 15:31

Instrument :

MSVOA_X

ClientSampleId :

B2-121018

Tot Ion: 105 Resp: 94449

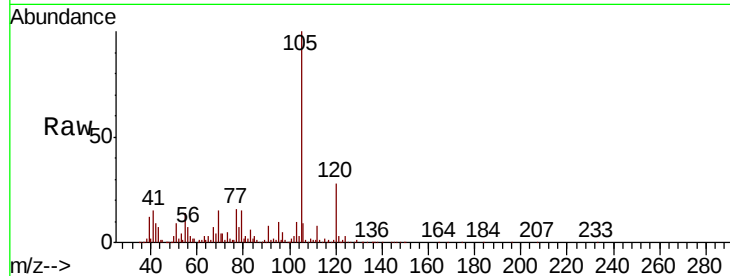
Ion Ratio Lower Upper

105 100

120 28.0 14.1 42.3

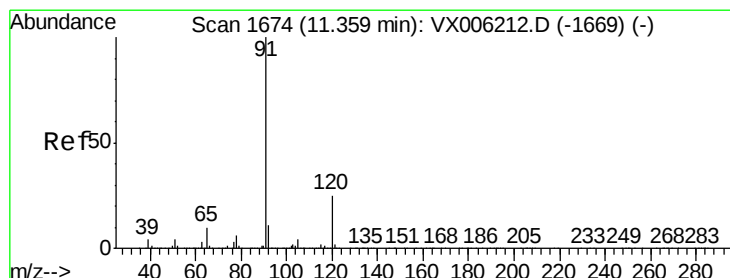
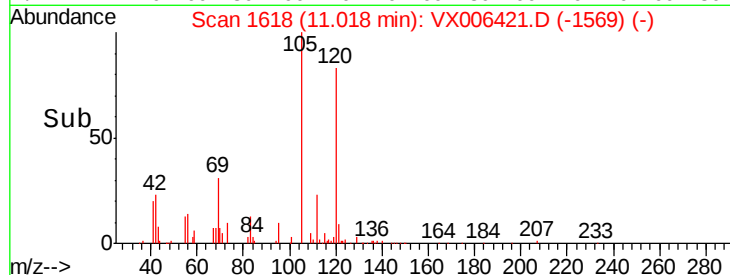
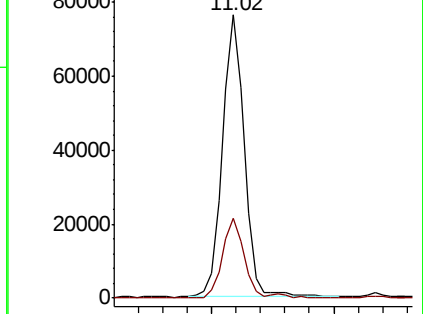
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 2.201 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX006421.D

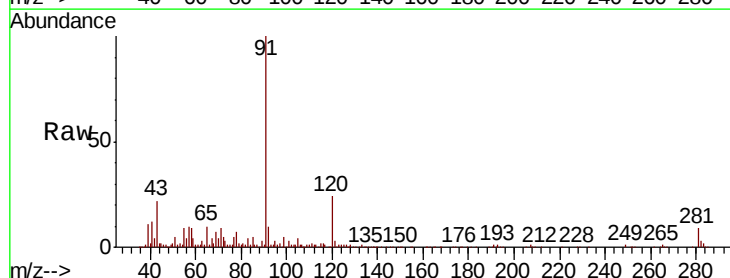
Acq: 11 Dec 2018 15:31

Tgt Ion: 91 Resp: 93053

Ion Ratio Lower Upper

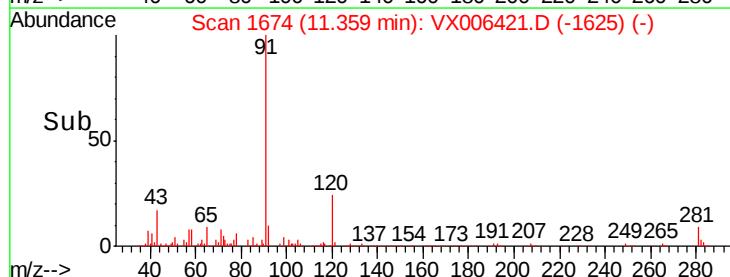
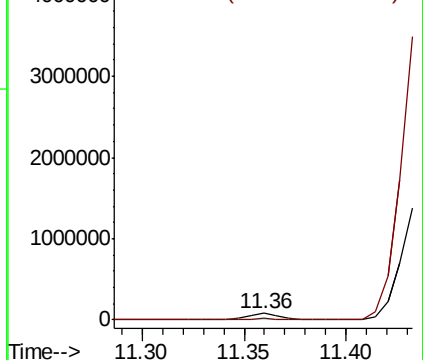
91 100

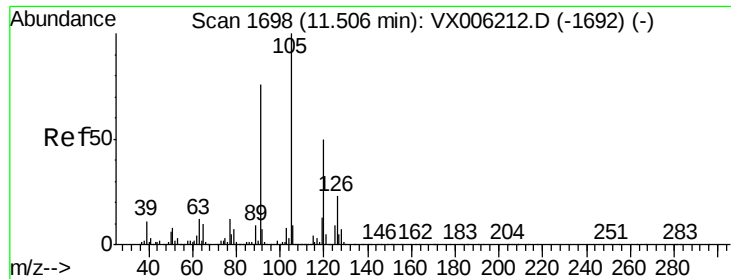
120 0.0 12.7 38.0#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





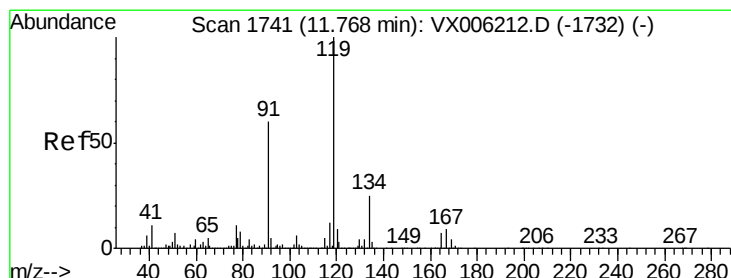
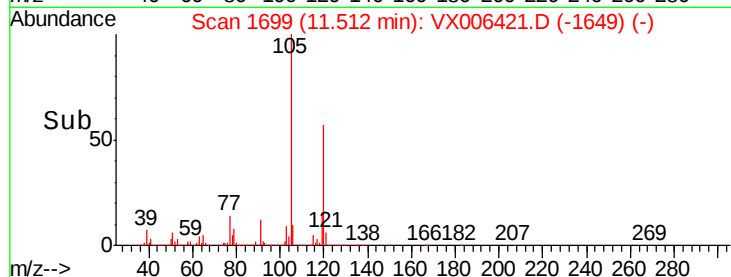
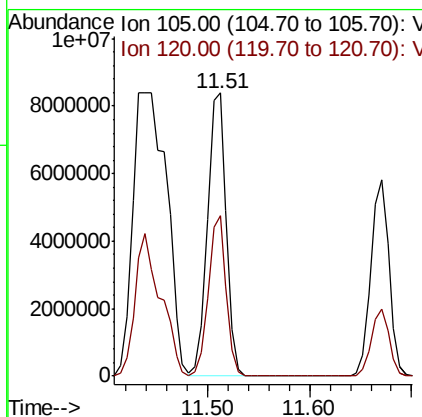
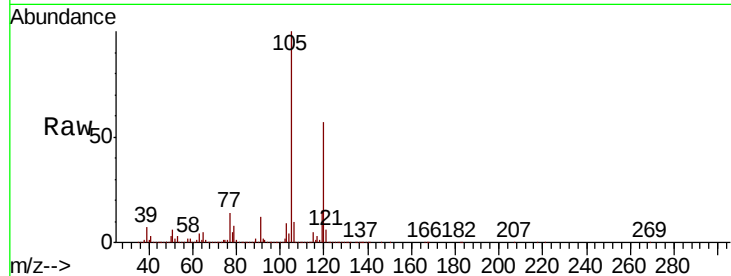
#80
 1,3,5-Trimethylbenzene
 Concen: 340.674 ug/l
 RT: 11.51 min Scan# 1699
 Delta R.T. 0.01 min
 Lab File: VX006421.D
 Acq: 11 Dec 2018 15:31

Instrument :
 MSVOA_X
 ClientSampleID :
 B2-121018

Tot Ion:105 Resp:10782520
 Ion Ratio Lower Upper
 105 100
 120 53.8 25.4 76.0

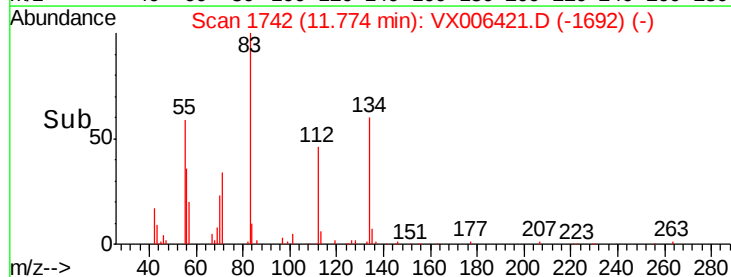
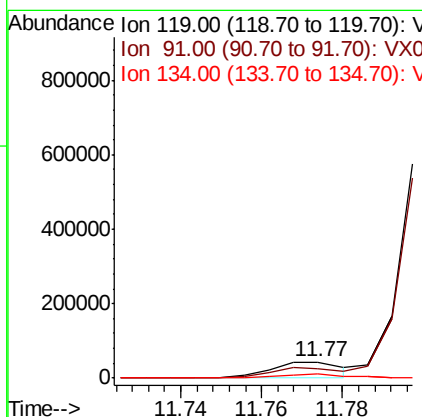
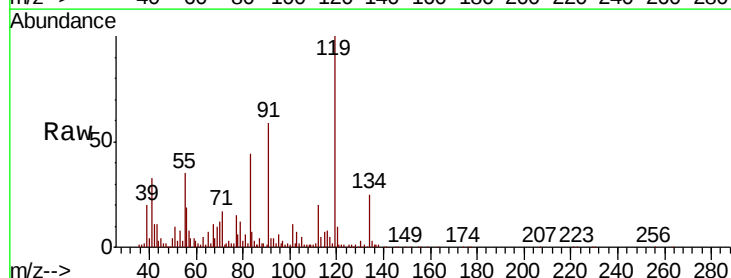
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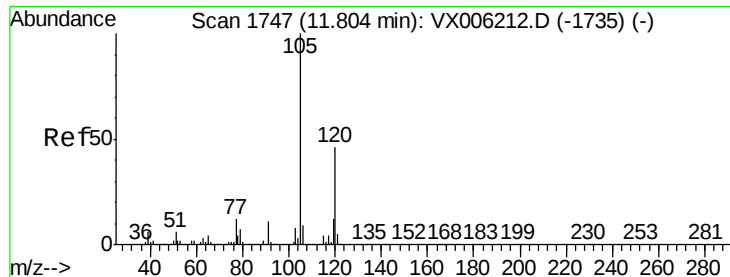
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#83
 tert-Butylbenzene
 Concen: 1.587 ug/l m
 RT: 11.77 min Scan# 1742
 Delta R.T. 0.01 min
 Lab File: VX006421.D
 Acq: 11 Dec 2018 15:31

Tgt Ion:119 Resp: 53608
 Ion Ratio Lower Upper
 119 100
 91 8306.5 26.4 79.2#
 134 0.0 11.6 34.7#





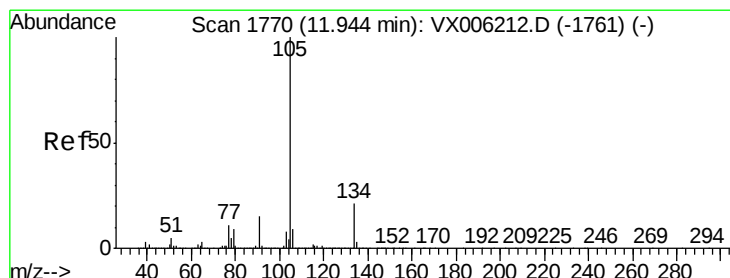
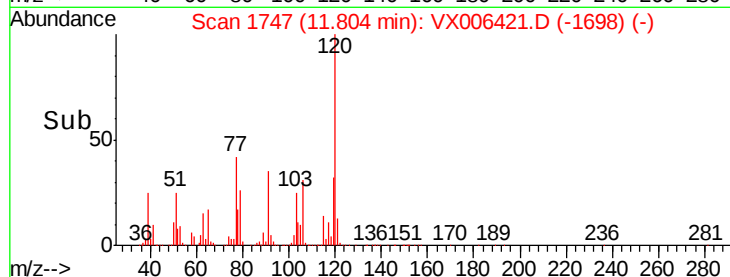
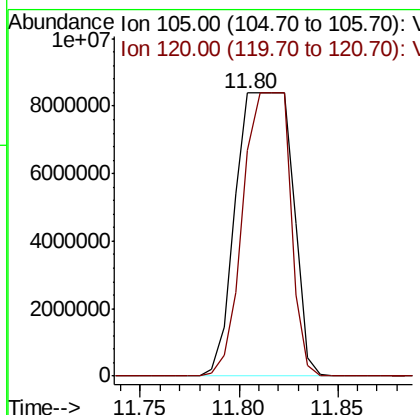
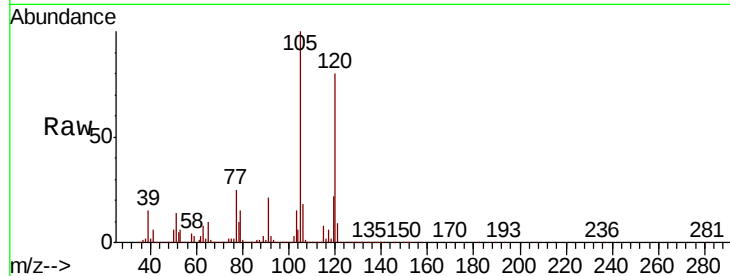
#84
1,2,4-Trimethylbenzene
Concen: 512.171 ug/l m
RT: 11.80 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Instrument :
MSVOA_X
ClientSampleId :
B2-121018

Tot Ion:105 Resp:16738792
Ion Ratio Lower Upper
105 100
120 14.4 23.4 70.0#

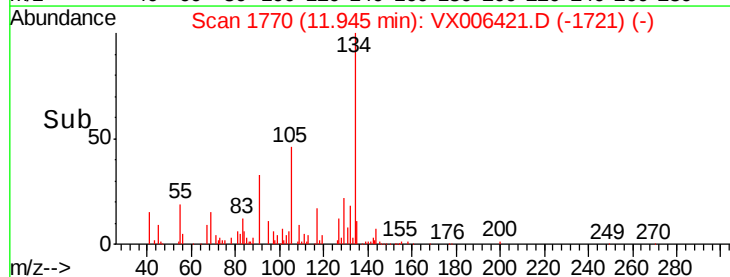
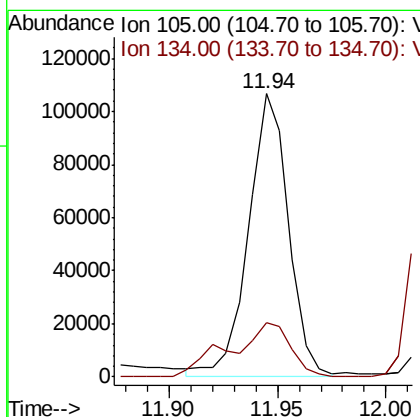
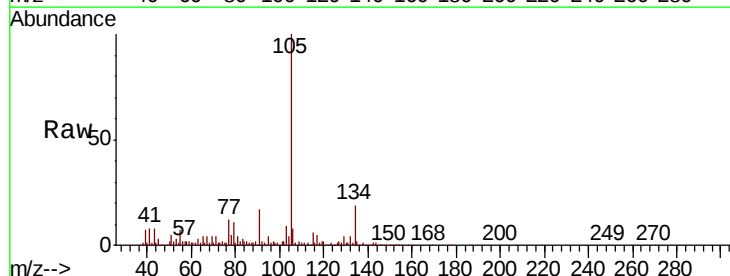
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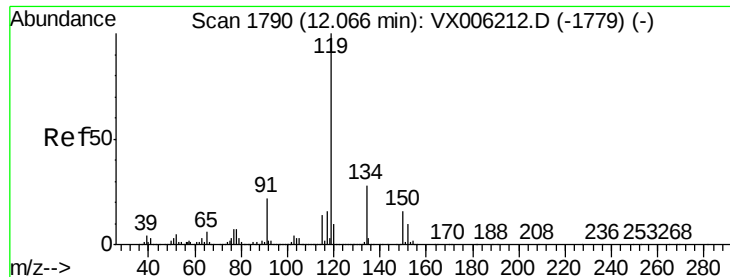
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#85
sec-Butylbenzene
Concen: 3.549 ug/l m
RT: 11.94 min Scan# 1770
Delta R.T. 0.00 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Tgt Ion:105 Resp: 136358
Ion Ratio Lower Upper
105 100
134 0.0 10.8 32.4#





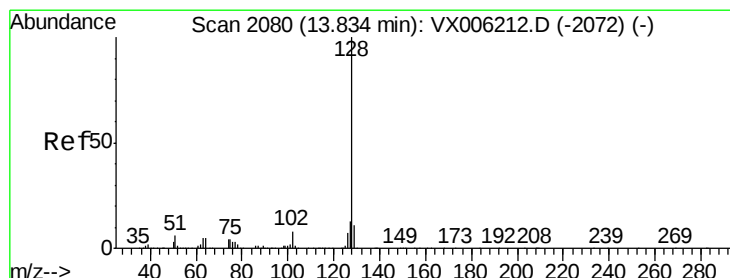
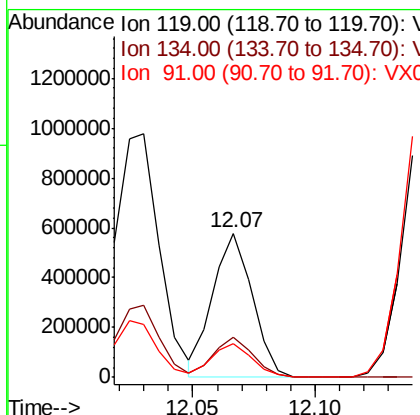
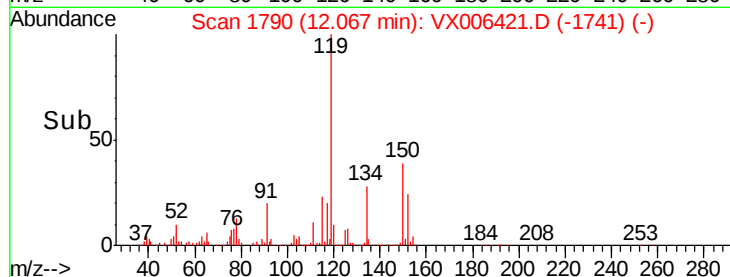
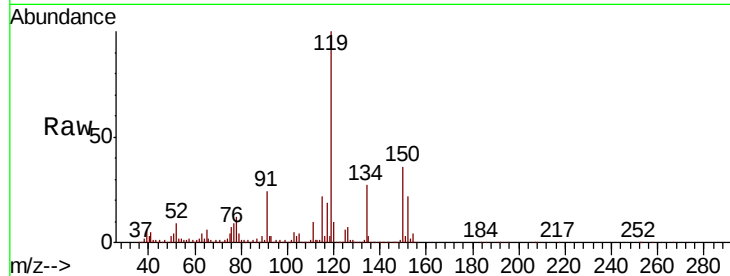
#86
p-Isopropyltoluene
Concen: 18.819 ug/l
RT: 12.07 min Scan# 1790
Delta R.T. 0.00 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Instrument :
MSVOA_X
ClientSampleId :
B2-121018

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.5	13.9	41.6
91	23.4	11.3	33.8

Manual Integrations
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#95
Naphthalene
Concen: 311.905 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX006421.D
Acq: 11 Dec 2018 15:31

Tgt Ion	Ratio	Lower	Upper
128	100		
127	17.2	10.2	15.4#
129	15.1	8.9	13.3#

