

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032919\
 Data File : VX008547.D
 Acq On : 29 Mar 2019 16:36
 Operator : JC/SP
 Sample : K2121-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP

Manual Integrations
 APPROVED

MMDadoda
 3/30/2019 9:50:48 AM

Quant Time: Mar 30 09:43:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	227050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	377325	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	329505	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	137513	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	155980	45.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.62%	
35) Dibromofluoromethane	5.50	113	115808	47.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.14%	
50) Toluene-d8	8.71	98	477702	48.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.12%	
62) 4-Bromofluorobenzene	11.13	95	164110	45.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.04%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	21617m	5.785	ug/l	
11) Tert butyl alcohol	3.04	59	3762	4.933	ug/l #	91
16) Acetone	2.44	43	28338	15.752	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	6162	2.081	ug/l	92
27) cis-1,2-Dichloroethene	4.60	96	586846	181.683	ug/l	89
31) Cyclohexane	5.57	56	6954	1.260	ug/l	85
39) Methylcyclohexane	7.46	83	8729	1.816	ug/l	91
40) Benzene	6.14	78	16230	1.348	ug/l	100
44) Trichloroethene	7.21	130	1459	0.516	ug/l	88
52) Toluene	8.79	92	370152	51.399	ug/l	99
64) Tetrachloroethene	9.33	164	1152	0.516	ug/l	92
67) Ethyl Benzene	10.25	91	178154	13.173	ug/l	99
68) m/p-Xylenes	10.36	106	434998	88.416	ug/l	99
69) o-Xylene	10.69	106	243148	50.927	ug/l	100
73) Isopropylbenzene	11.02	105	19896	1.778	ug/l	99
78) n-propylbenzene	11.36	91	61866	4.721	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	432682	45.748	ug/l	99
83) tert-Butylbenzene	11.77	119	21446	2.350	ug/l	88
84) 1,2,4-Trimethylbenzene	11.80	105	751916	78.600	ug/l	98
85) sec-Butylbenzene	11.94	105	17839m	1.642	ug/l	
86) p-Isopropyltoluene	12.06	119	47750	4.980	ug/l	99
95) Naphthalene	13.83	128	193702	17.274	ug/l	100

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

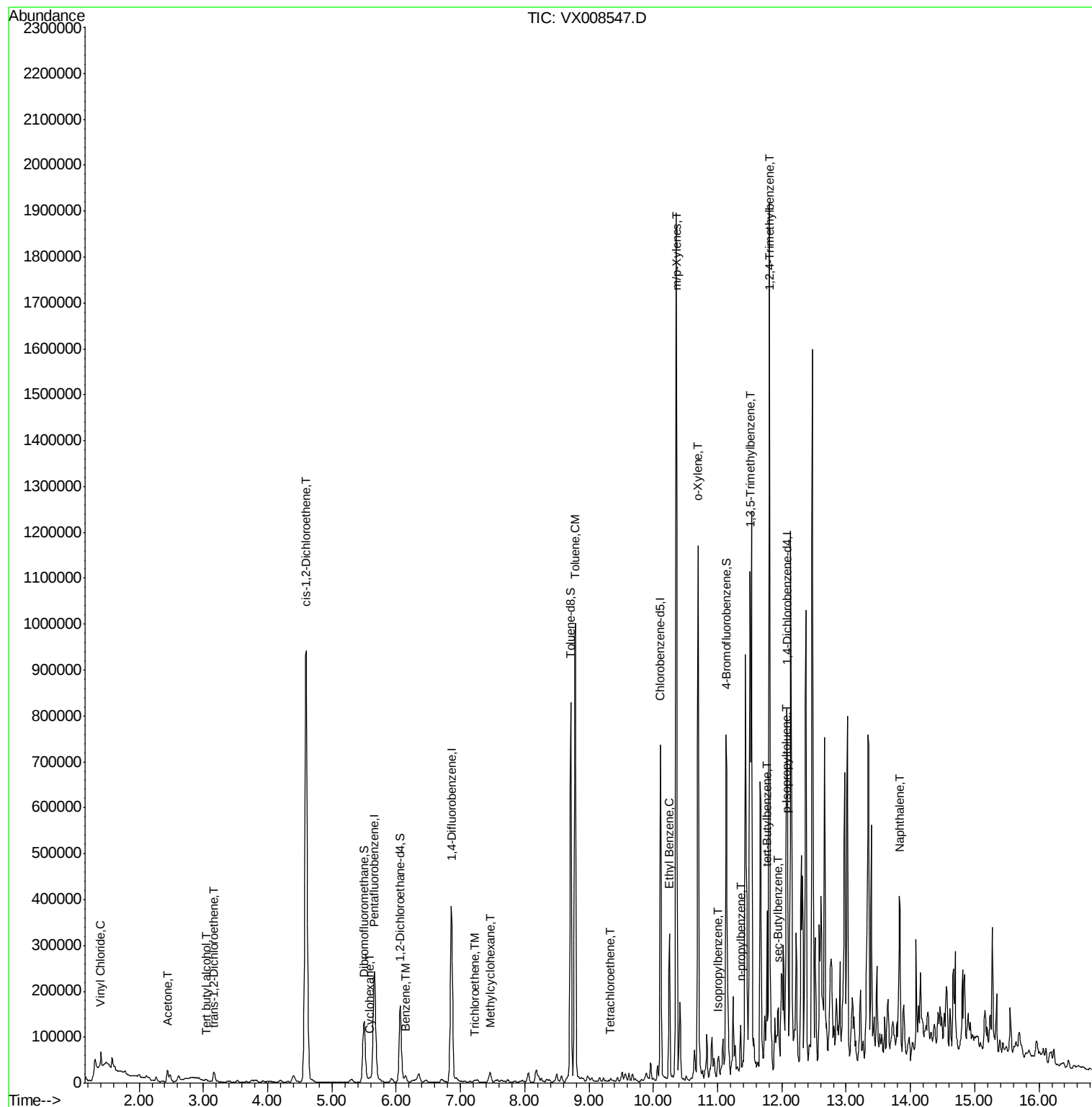
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032919\
Data File : VX008547.D
Acq On : 29 Mar 2019 16:36
Operator : JC/SP
Sample : K2121-08
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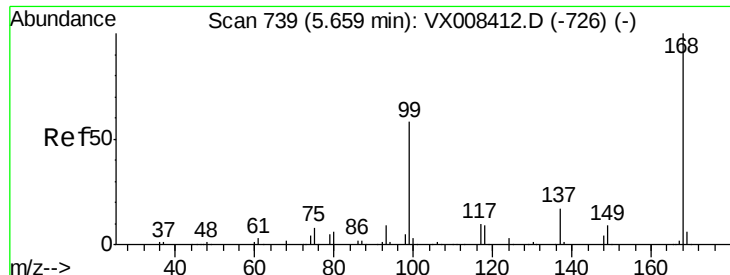
Instrument :
MSVOA_X
ClientSampleId :
DUP

Manual Integrations
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3/30/2019 9:50:48 AM

Quant Time: Mar 30 09:43:58 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
Quant Title : SW846 8260
QLast Update : Tue Mar 26 07:57:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008547.D

Acq: 29 Mar 2019 16:36

Instrument :

MSVOA_X

ClientSampled :

DUP

Tot Ion:168 Resp: 227050

Ion Ratio Lower Upper

168 100

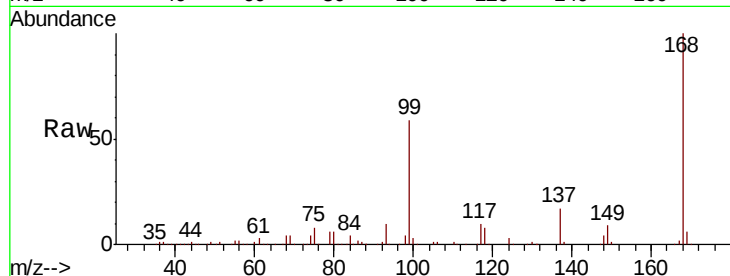
99 59.1 46.0 69.0

Manual Integrations

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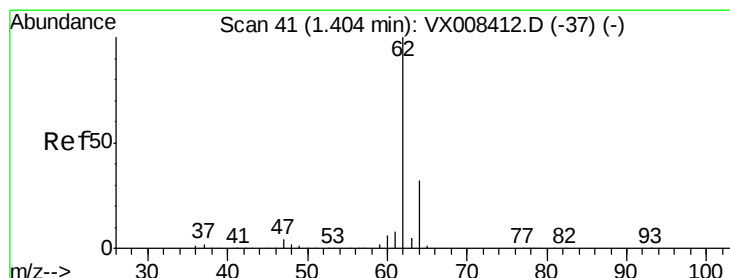
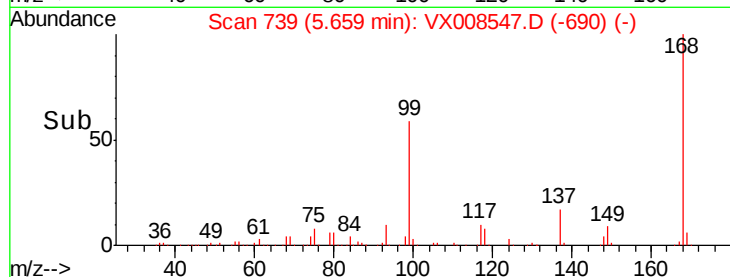
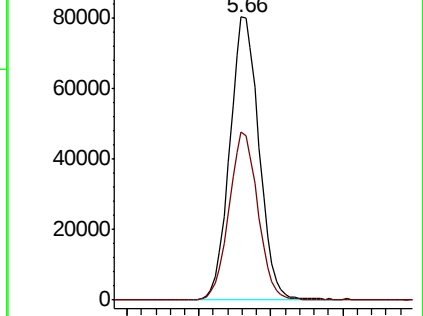
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 5.785 ug/l m

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX008547.D

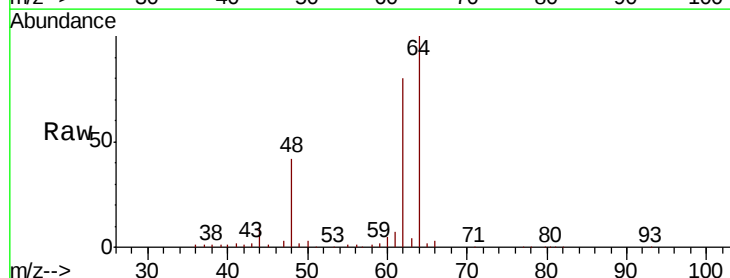
Acq: 29 Mar 2019 16:36

Tgt Ion: 62 Resp: 21617

Ion Ratio Lower Upper

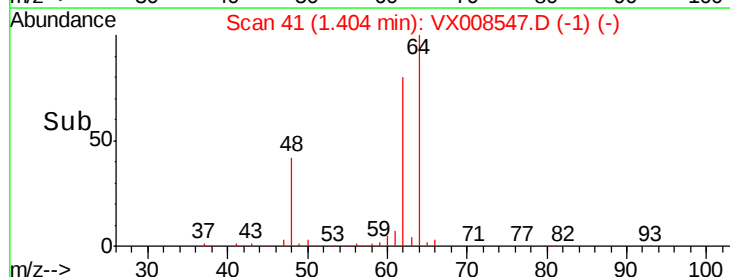
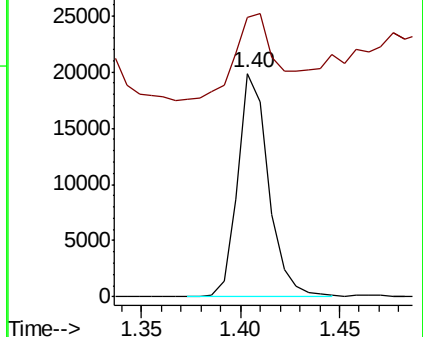
62 100

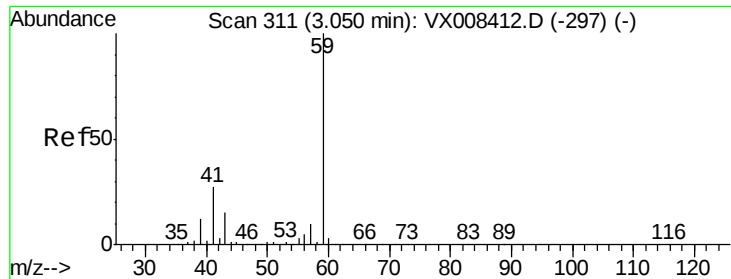
64 124.8 25.5 38.3#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#11

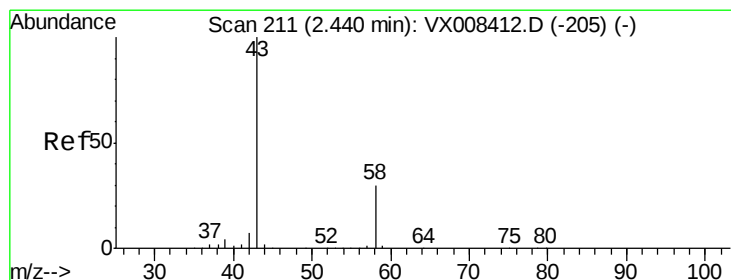
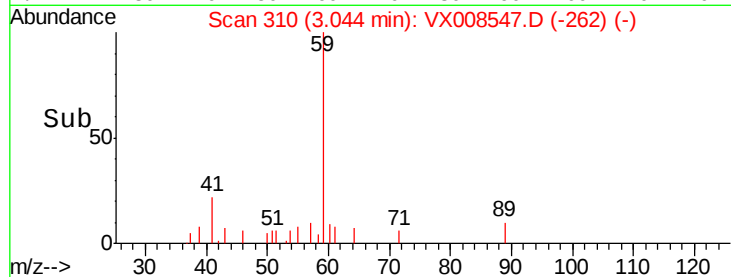
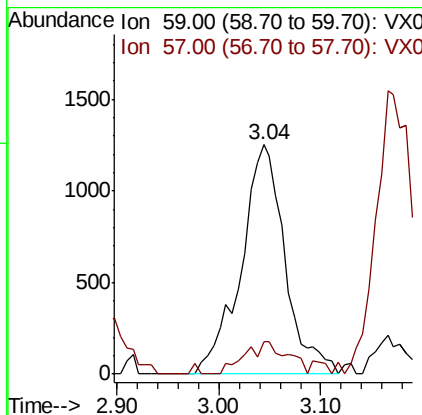
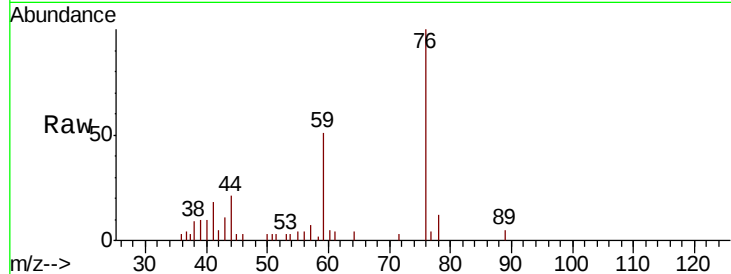
Tert butyl alcohol
 Concen: 4.933 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. -0.01 min
 Lab File: VX008547.D
 Acq: 29 Mar 2019 16:36

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP

Tot Ion: 59 Resp: 3762
 Ion Ratio Lower Upper
 59 100
 57 13.6 8.2 12.4#

Manual Integrations
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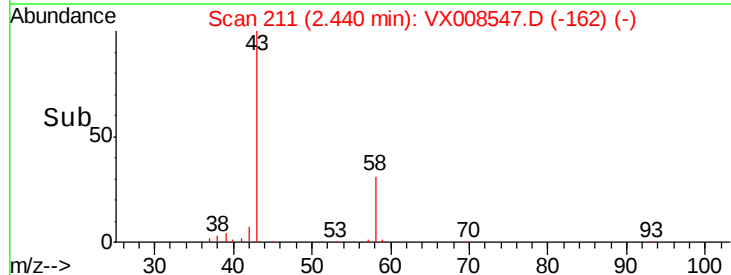
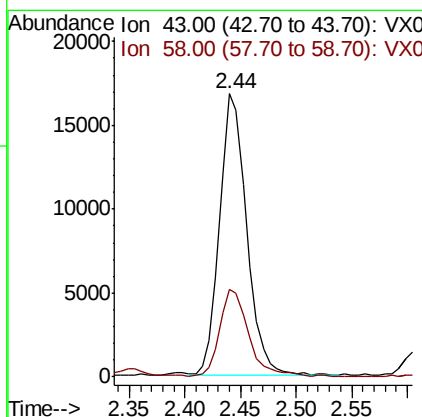
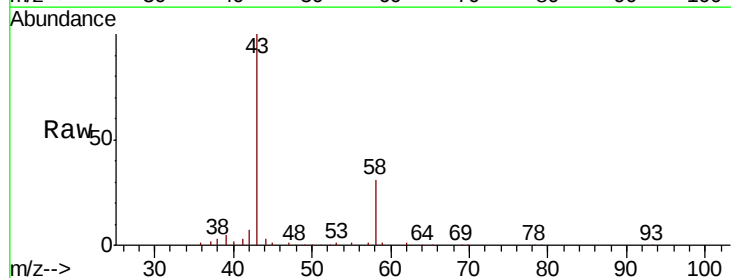
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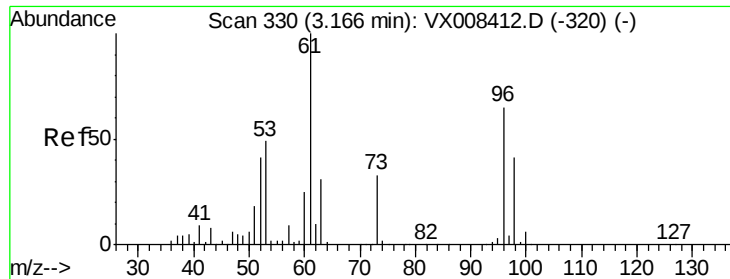


#16

Acetone
 Concen: 15.752 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. 0.00 min
 Lab File: VX008547.D
 Acq: 29 Mar 2019 16:36

Tgt Ion: 43 Resp: 28338
 Ion Ratio Lower Upper
 43 100
 58 31.3 24.2 36.2





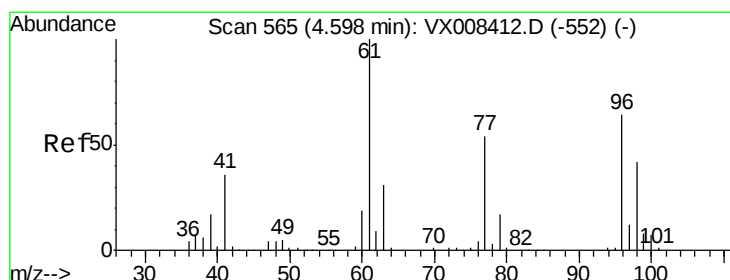
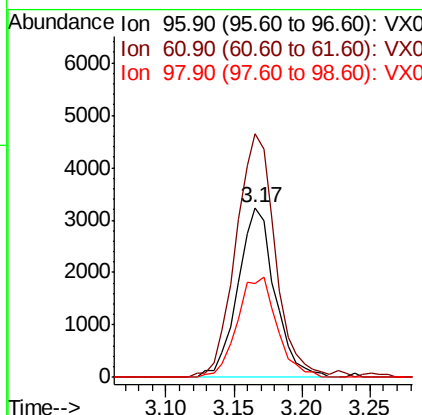
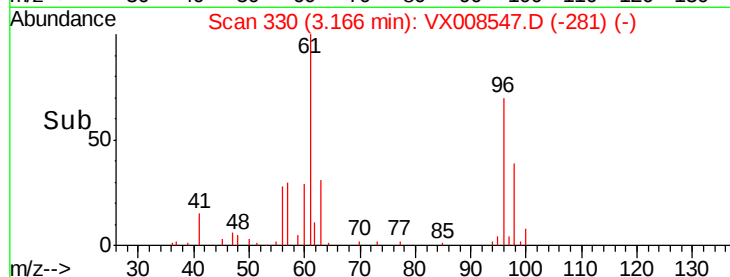
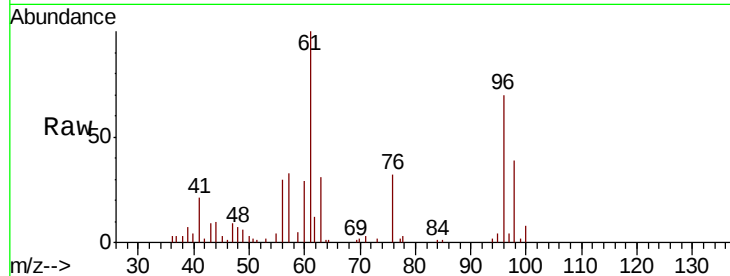
#21
trans-1,2-Dichloroethene
Concen: 2.081 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.00 min
Lab File: VX008547.D
Acq: 29 Mar 2019 16:36

Instrument :
MSVOA_X
ClientSampleId :
DUP

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.4	122.6	184.0
98	55.6	50.9	76.3

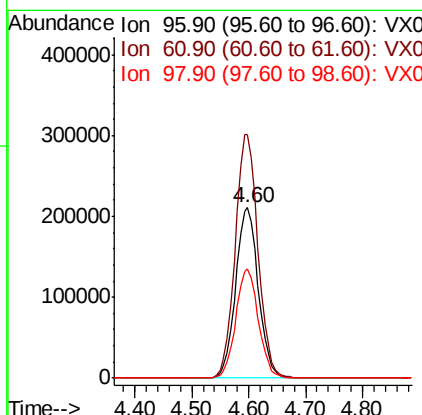
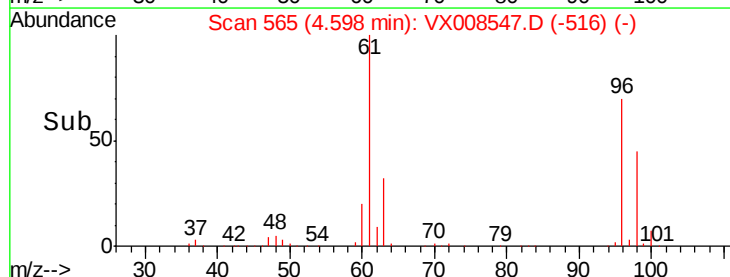
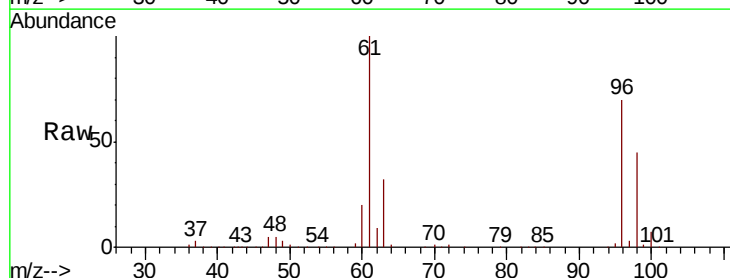
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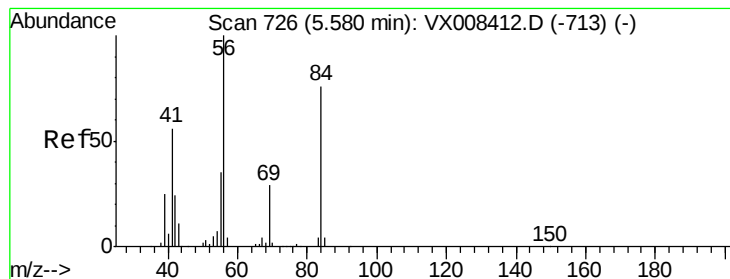
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#27
cis-1,2-Dichloroethene
Concen: 181.683 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX008547.D
Acq: 29 Mar 2019 16:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	143.7	0.0	325.6
98	64.0	0.0	130.0





#31

Cyclohexane

Concen: 1.260 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.01 min

Lab File: VX008547.D

Acq: 29 Mar 2019 16:36

Instrument :

MSVOA_X

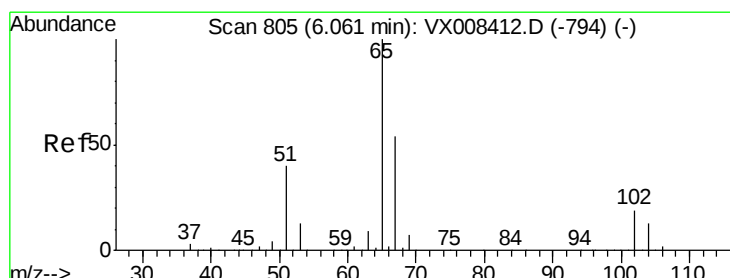
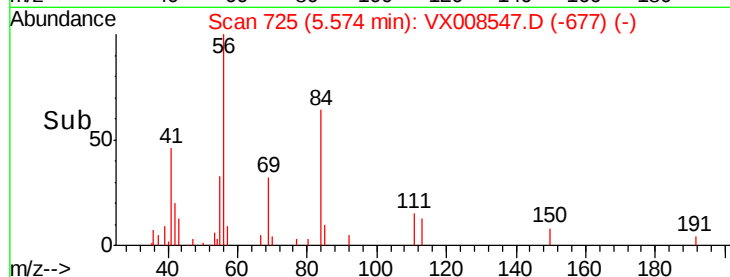
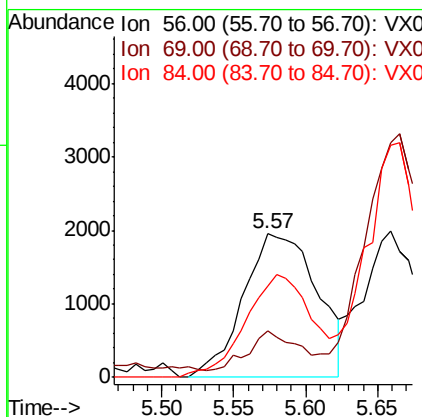
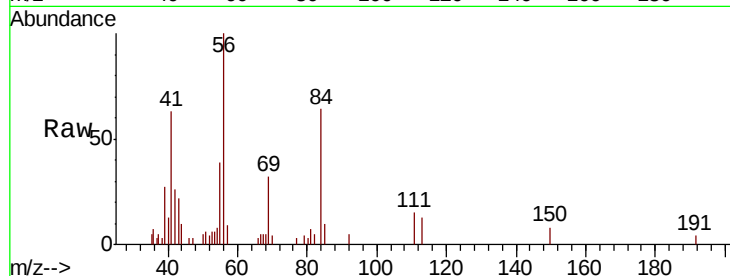
ClientSampled :

DUP

Tot Ion:	56	Resp:	6954
Ion	Ratio	Lower	Upper
56	100		
69	25.3	23.2	34.8
84	60.8	60.7	91.1

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#33

1,2-Dichloroethane-d4

Concen: 45.315 ug/l

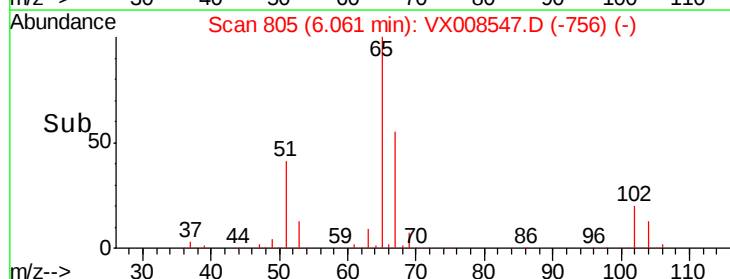
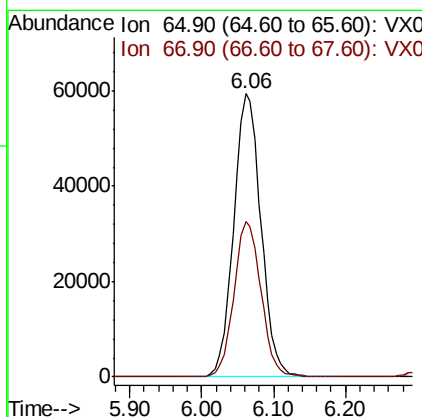
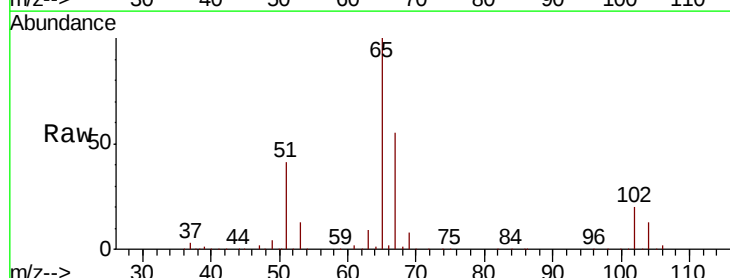
RT: 6.06 min Scan# 805

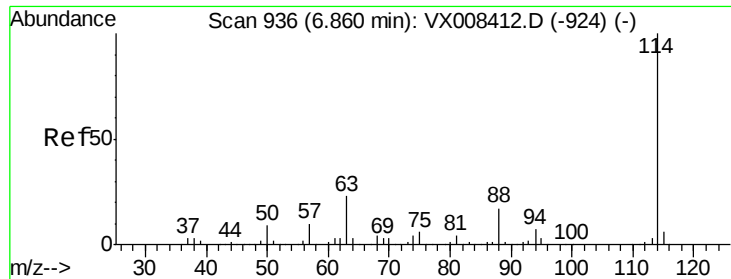
Delta R.T. 0.00 min

Lab File: VX008547.D

Acq: 29 Mar 2019 16:36

Tgt Ion:	65	Resp:	155980
Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	109.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008547.D

Acq: 29 Mar 2019 16:36

Instrument :

MSVOA_X

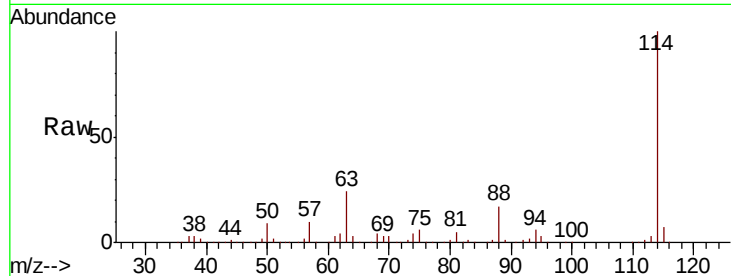
ClientSampleId :

DUP

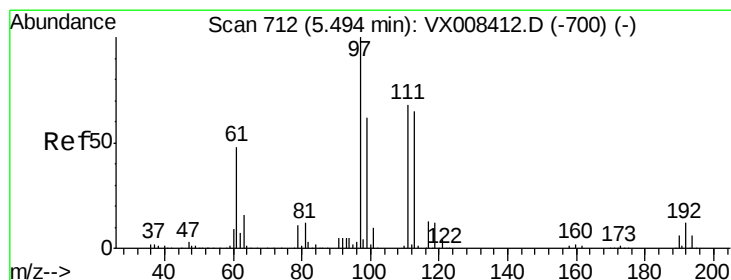
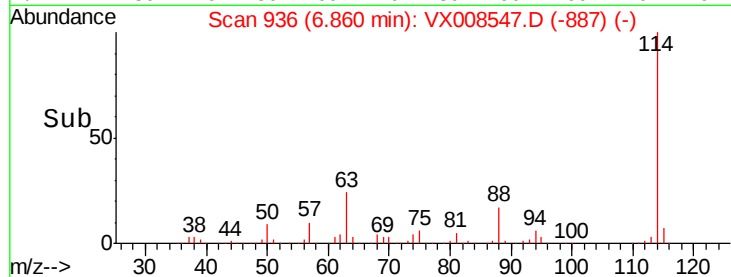
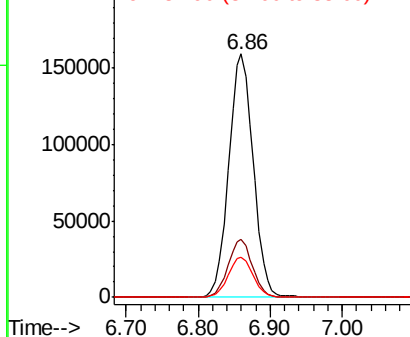
Tot Ion:	114	Resp:	377325
Ion Ratio	Lower	Upper	
114	100		
63	23.9	0.0	46.4
88	16.6	0.0	33.2

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Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.070 ug/l

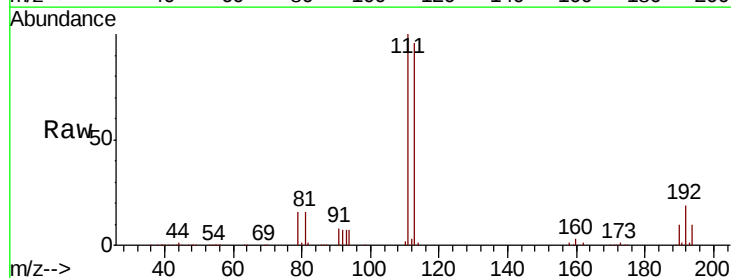
RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

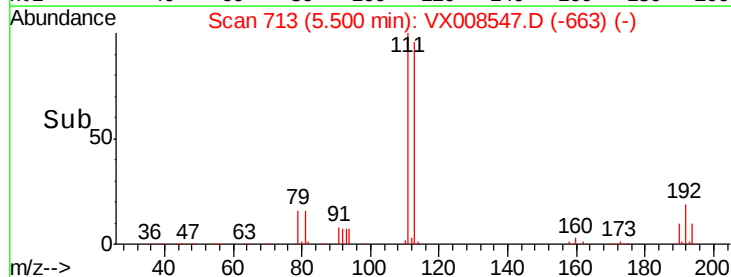
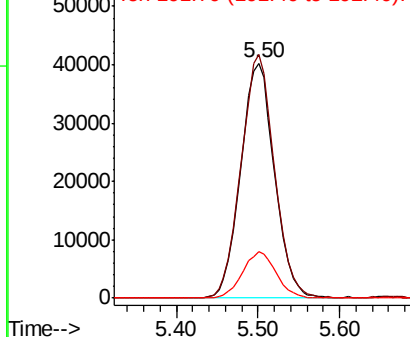
Lab File: VX008547.D

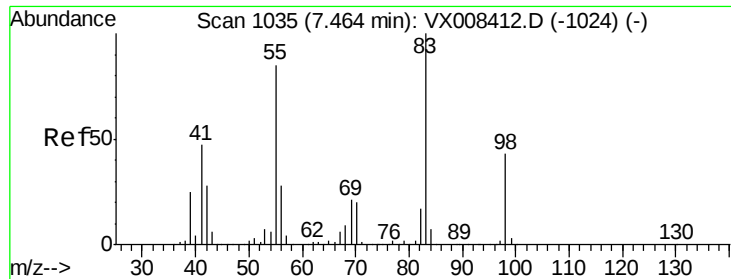
Acq: 29 Mar 2019 16:36

Tgt Ion:	113	Resp:	115808
Ion Ratio	Lower	Upper	
113	100		
111	102.5	83.0	124.4
192	19.6	15.6	23.4



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





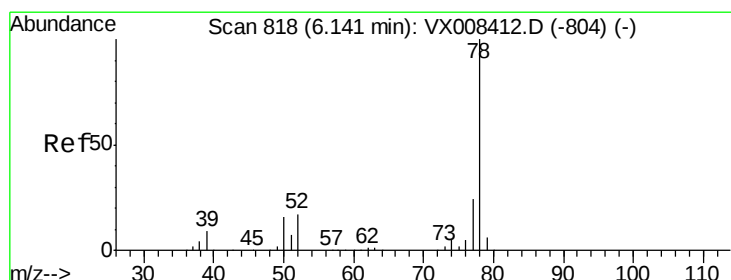
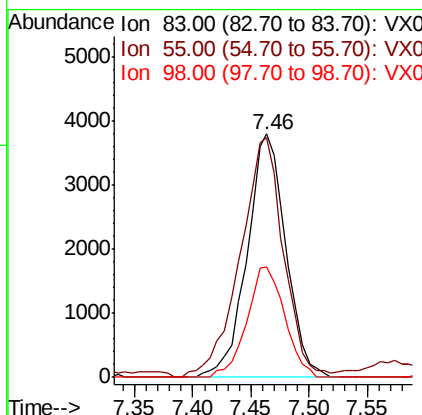
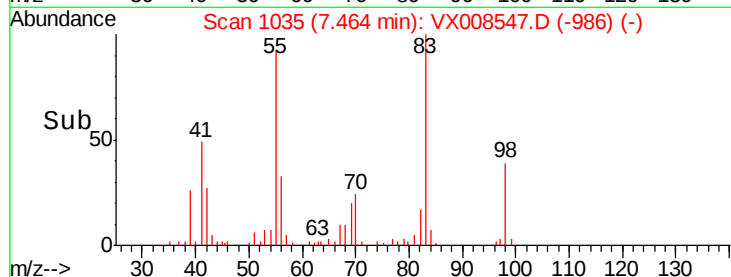
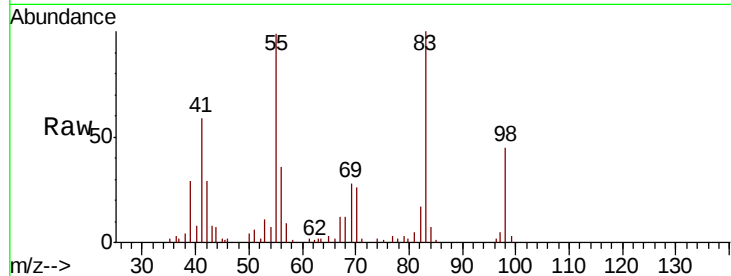
#39
Methvlcvclohexane
Concen: 1.816 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX008547.D
Acq: 29 Mar 2019 16:36

Instrument :
MSVOA_X
ClientSampled :
DUP

Tot Ion	Ratio	Lower	Upper
83	100		
55	96.4	68.2	102.4
98	45.3	34.2	51.4

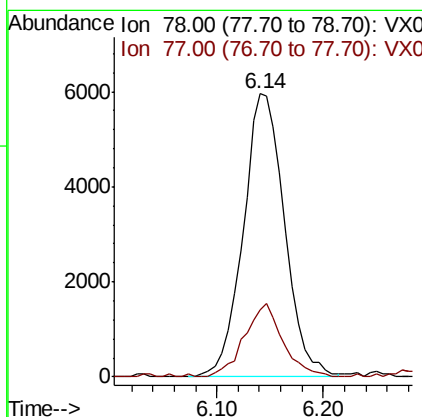
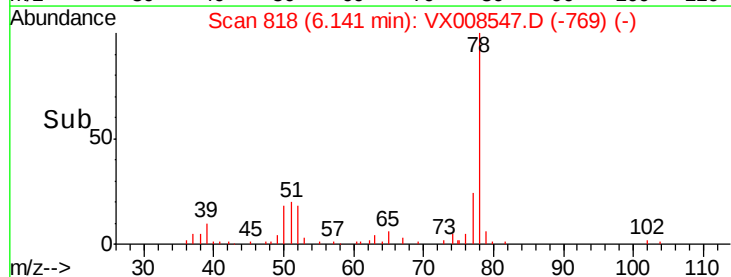
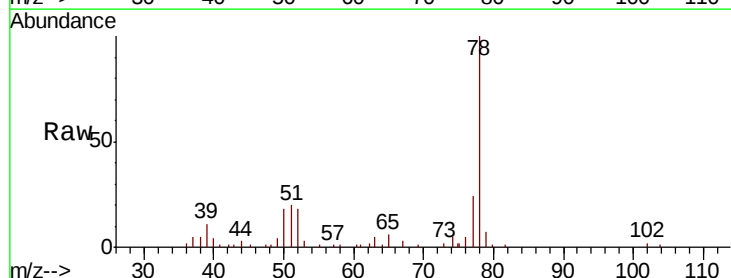
Manual Integrations
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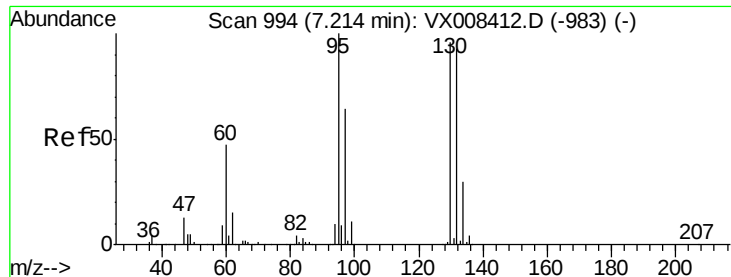
MMDadoda
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#40
Benzene
Concen: 1.348 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX008547.D
Acq: 29 Mar 2019 16:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9





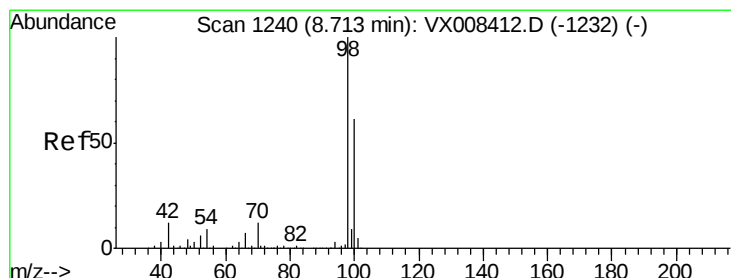
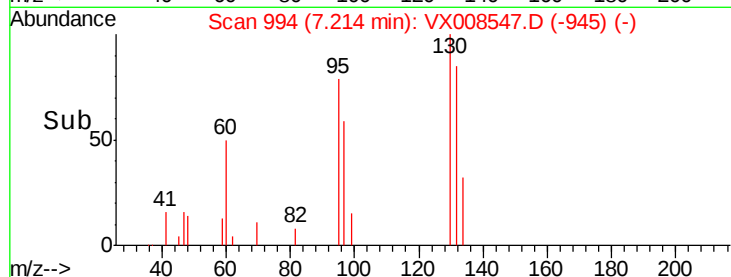
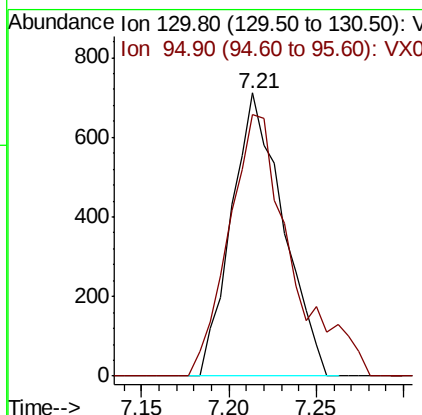
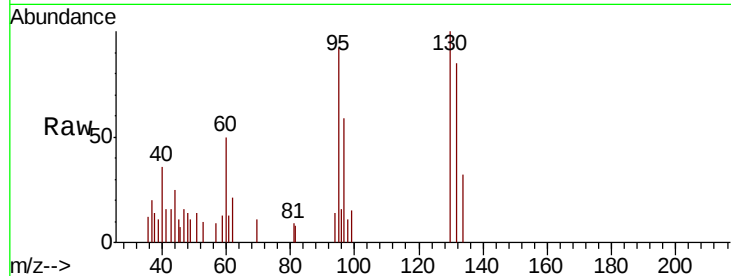
#44
 Trichloroethene
 Concen: 0.516 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX008547.D
 Acq: 29 Mar 2019 16:36

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP

Tot Ion:130 Resp: 1459
 Ion Ratio Lower Upper
 130 100
 95 92.4 0.0 208.8

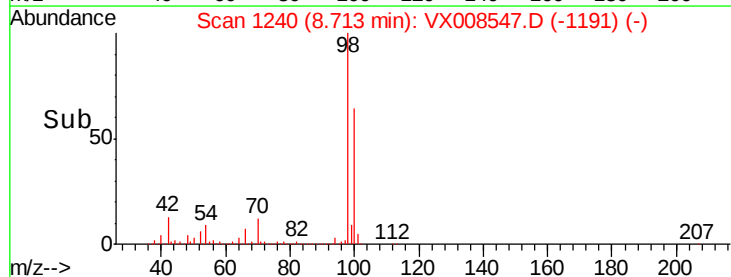
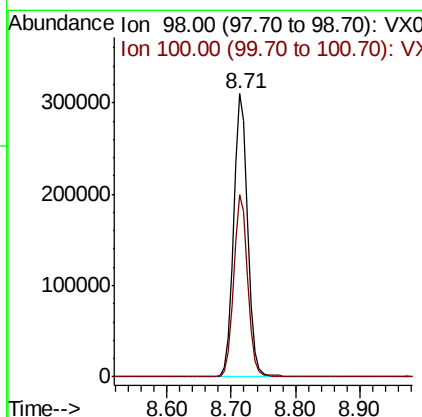
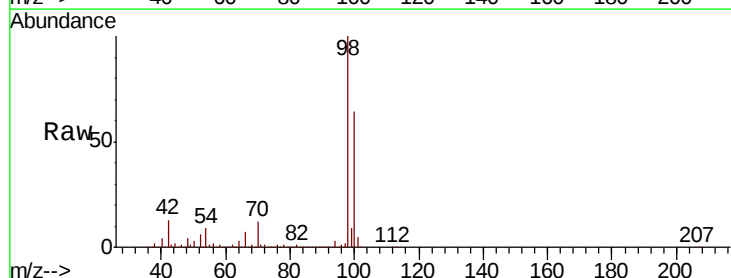
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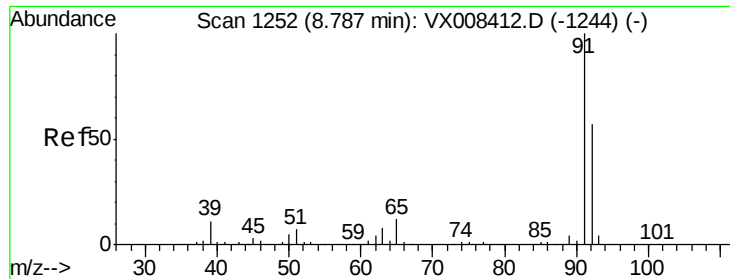
MMDadoda
 3/30/2019 9:50:48 AM



#50
 Toluene-d8
 Concen: 48.557 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX008547.D
 Acq: 29 Mar 2019 16:36

Tgt Ion: 98 Resp: 477702
 Ion Ratio Lower Upper
 98 100
 100 64.0 51.1 76.7





#52

Toluene

Concen: 51.399 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX008547.D

Acq: 29 Mar 2019 16:36

Instrument :

MSVOA_X

ClientSampleId :

DUP

Tot Ion: 92 Resp: 370152

Ion Ratio Lower Upper

92 100

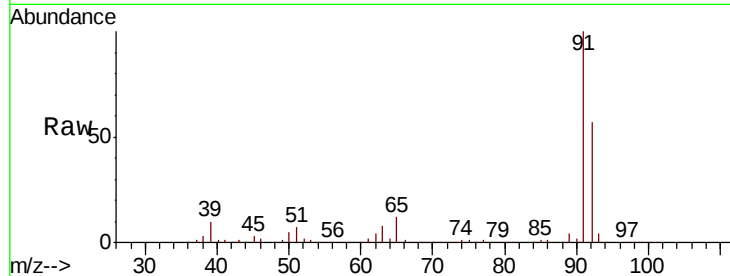
91 174.5 140.2 210.4

Manual Integrations

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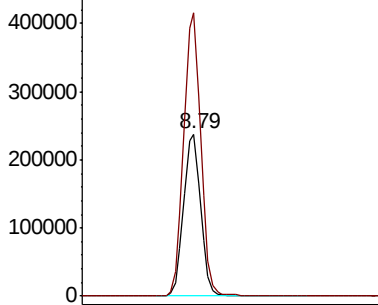
MMDadoda

3/30/2019 9:50:48 AM

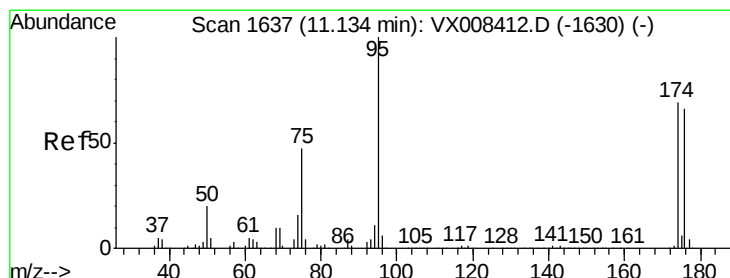
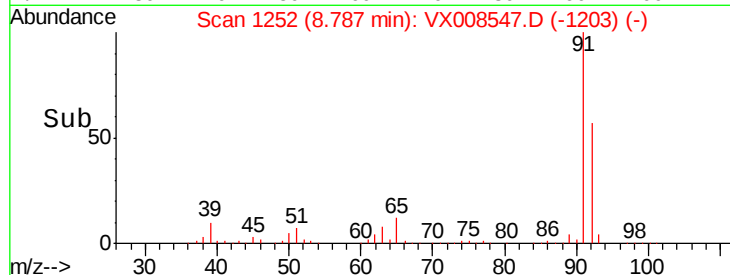


Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



Time-->



#62

4-Bromofluorobenzene

Concen: 45.017 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008547.D

Acq: 29 Mar 2019 16:36

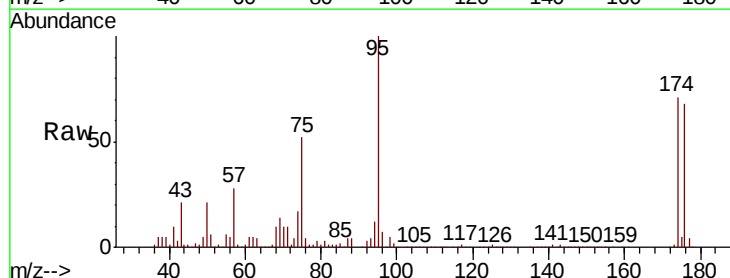
Tgt Ion: 95 Resp: 164110

Ion Ratio Lower Upper

95 100

174 73.8 0.0 147.2

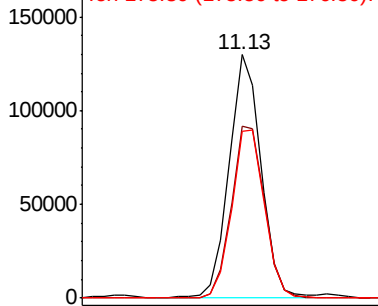
176 71.2 0.0 142.4



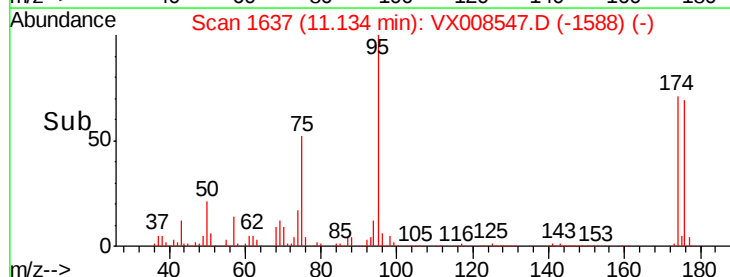
Abundance Ion 94.90 (94.60 to 95.60): VX0

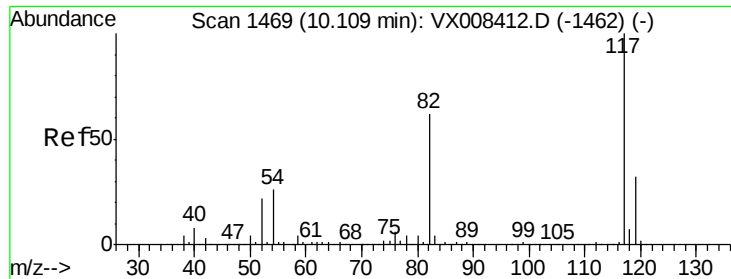
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->





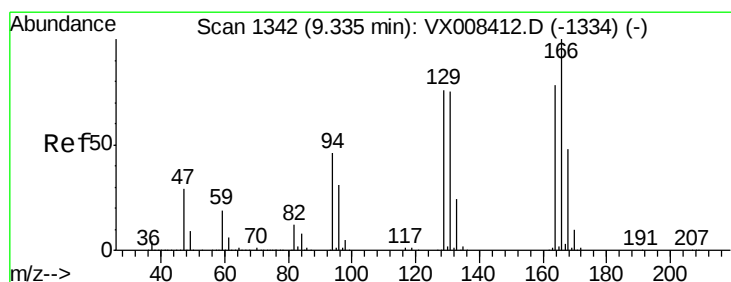
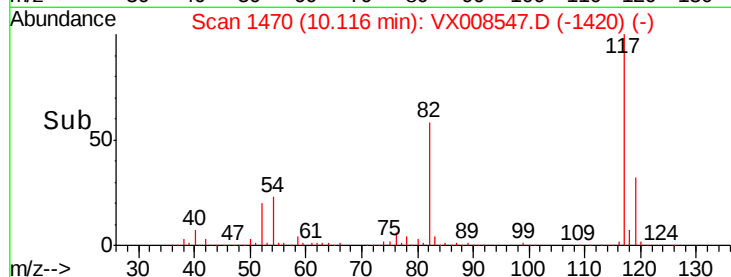
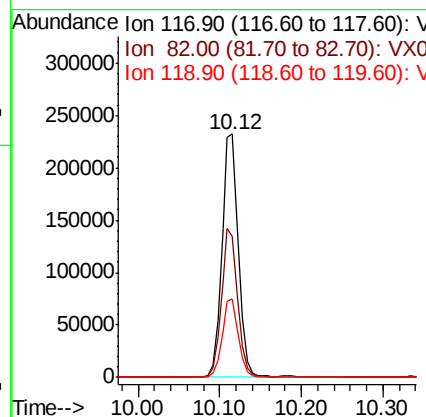
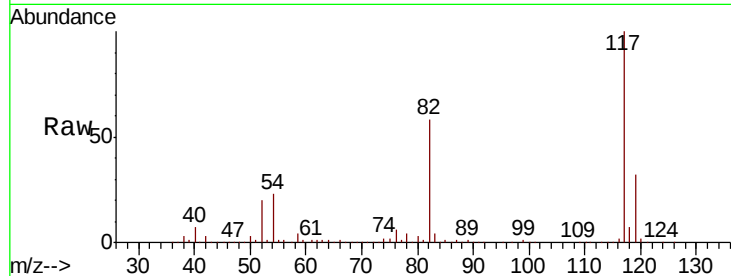
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008547.D
Acq: 29 Mar 2019 16:36

Instrument :
MSVOA_X
ClientSampled :
DUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.1	49.4	74.2
119	32.1	25.4	38.0

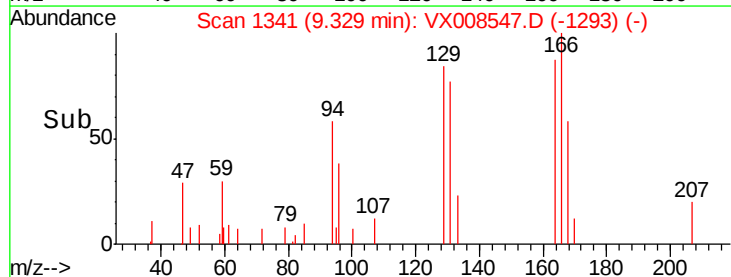
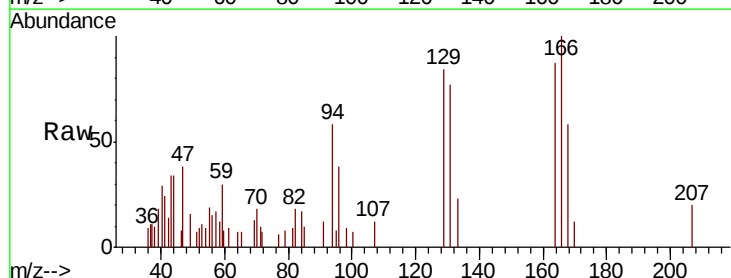
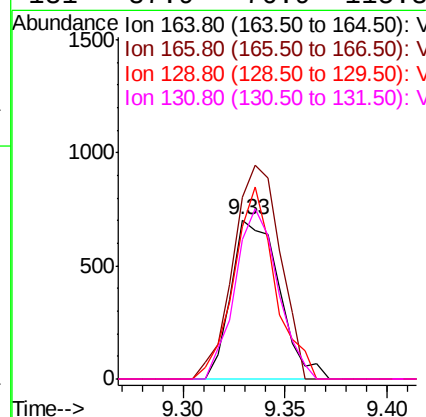
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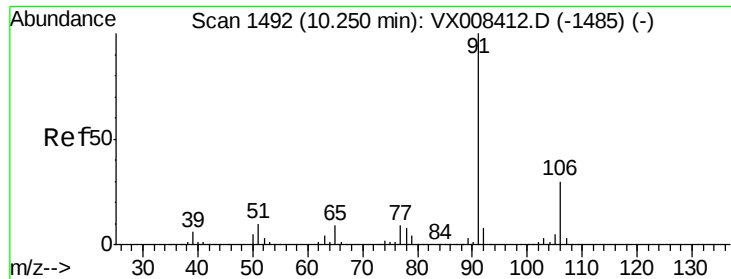
MMDadoda
3/30/2019 9:50:48 AM



#64
Tetrachloroethene
Concen: 0.516 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VX008547.D
Acq: 29 Mar 2019 16:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	114.5	102.5	153.7
129	95.7	77.8	116.8
131	87.9	76.9	115.3





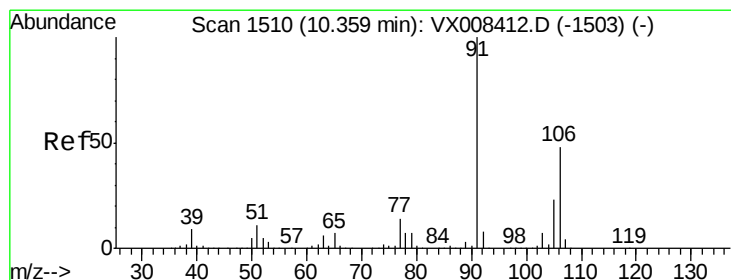
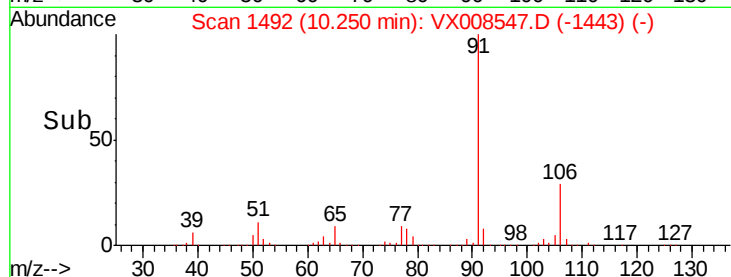
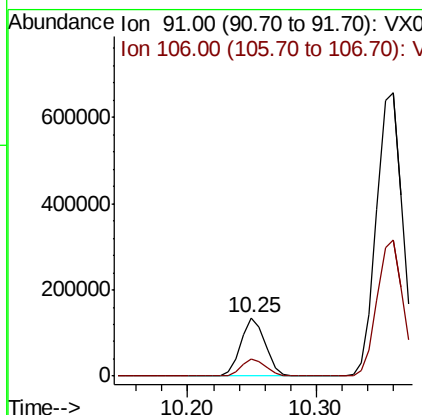
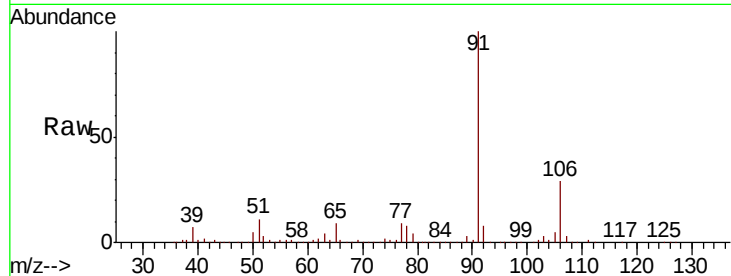
#67
Ethyl Benzene
Concen: 13.173 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX008547.D
Acq: 29 Mar 2019 16:36

Instrument :
MSVOA_X
ClientSampled :
DUP

Tot Ion: 91 Resp: 178154
Ion Ratio Lower Upper
91 100
106 29.5 24.0 36.0

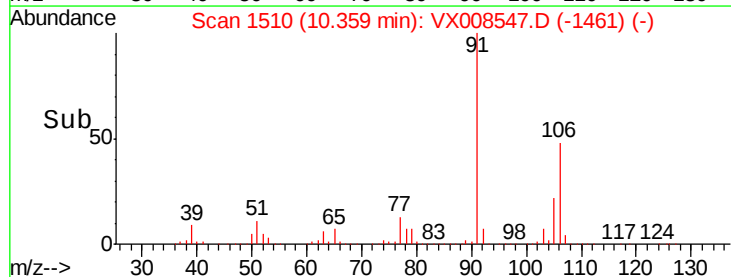
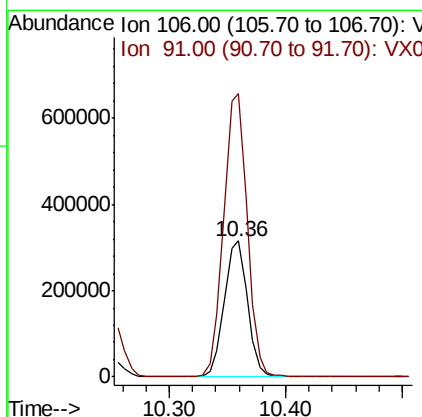
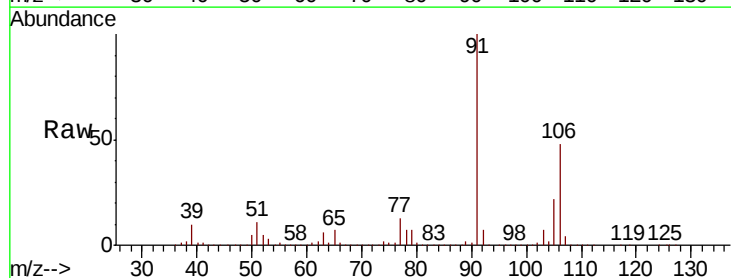
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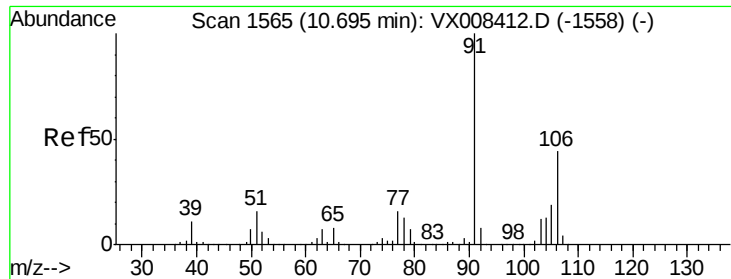
MMDadoda
3/30/2019 9:50:48 AM



#68
m/p-Xylenes
Concen: 88.416 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX008547.D
Acq: 29 Mar 2019 16:36

Tgt Ion: 106 Resp: 434998
Ion Ratio Lower Upper
106 100
91 211.6 168.6 253.0





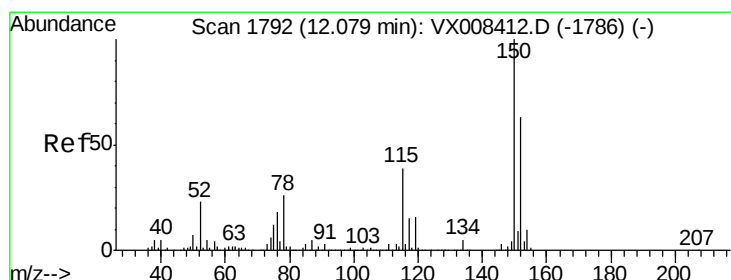
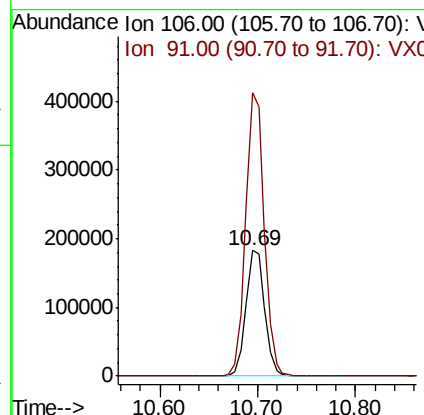
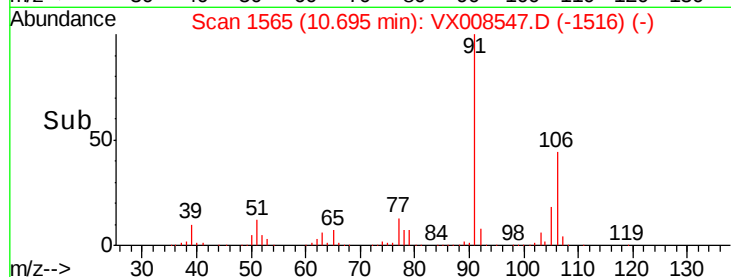
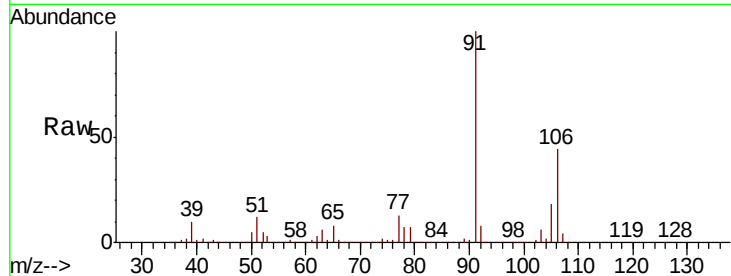
#69
o-Xylene
Concen: 50.927 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX008547.D
Acq: 29 Mar 2019 16:36

Instrument :
MSVOA_X
ClientSampled :
DUP

Tot Ion:106 Resp: 243148
Ion Ratio Lower Upper
106 100
91 222.3 111.4 334.2

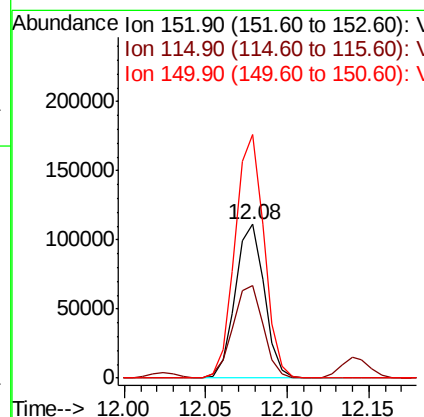
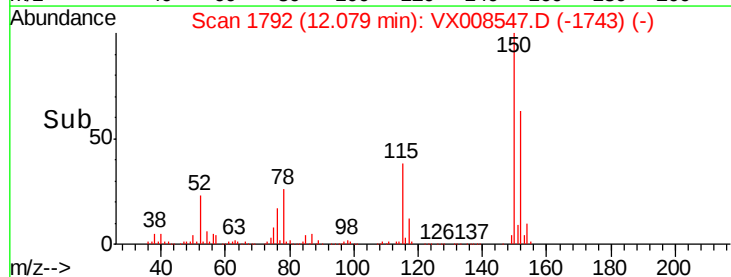
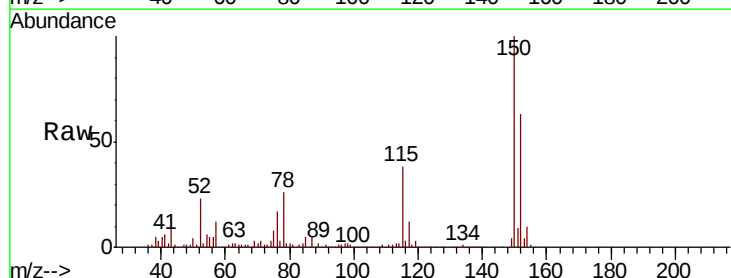
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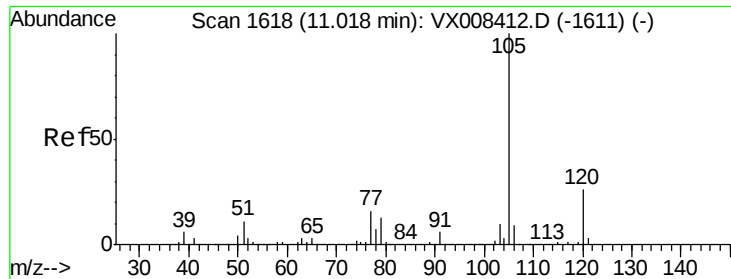
MMDadoda
3/30/2019 9:50:48 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008547.D
Acq: 29 Mar 2019 16:36

Tgt Ion:152 Resp: 137513
Ion Ratio Lower Upper
152 100
115 63.6 43.5 130.5
150 158.4 0.0 348.8





#73

Isopropylbenzene

Concen: 1.778 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX008547.D

Acq: 29 Mar 2019 16:36

Instrument :

MSVOA_X

ClientSampleId :

DUP

Tot Ion: 105 Resp: 19896

Ion Ratio Lower Upper

105 100

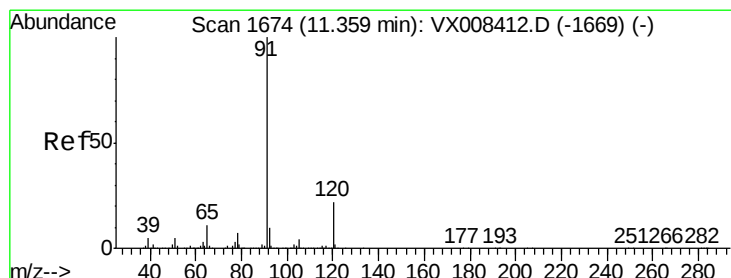
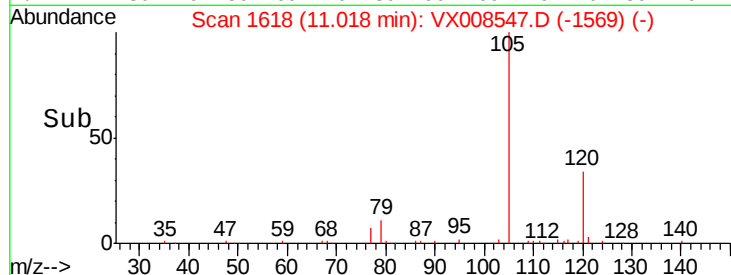
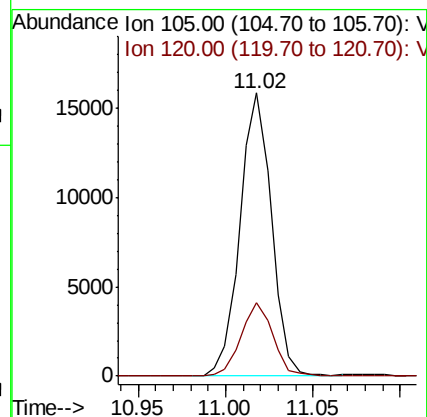
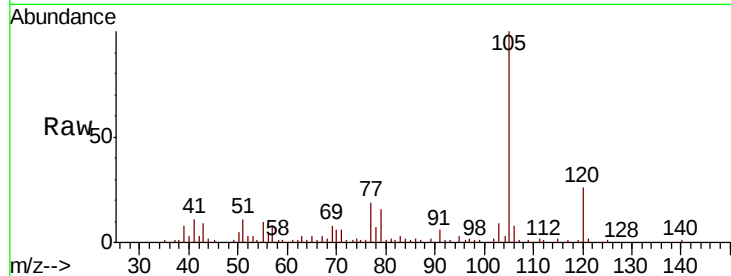
120 26.1 12.9 38.7

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#78

n-propylbenzene

Concen: 4.721 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX008547.D

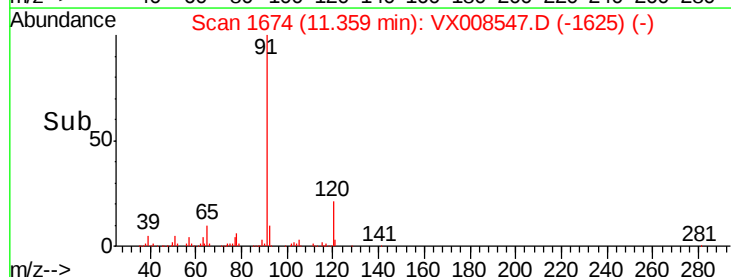
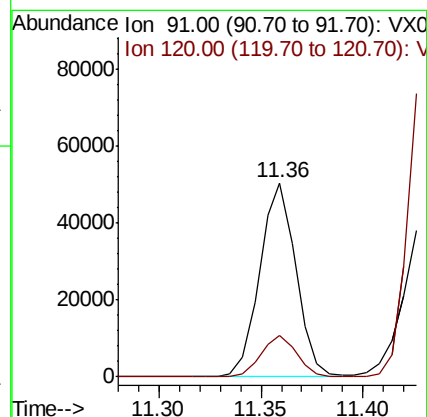
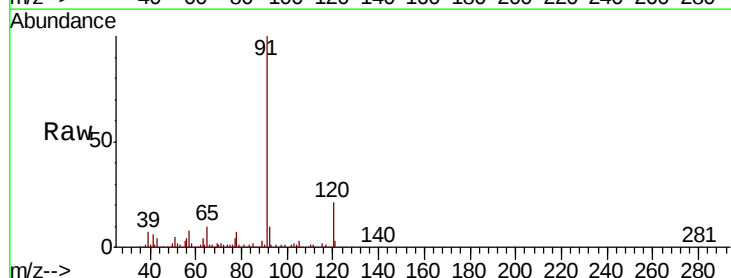
Acq: 29 Mar 2019 16:36

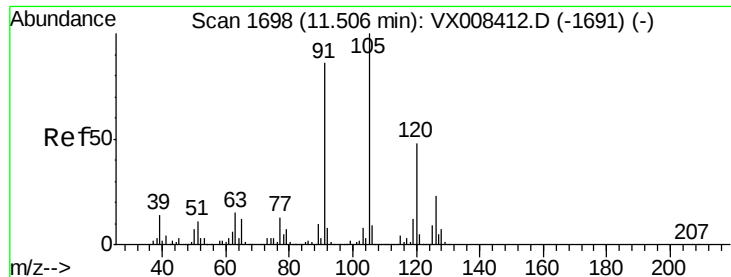
Tgt Ion: 91 Resp: 61866

Ion Ratio Lower Upper

91 100

120 21.3 10.8 32.4





#80

1,3,5-Trimethylbenzene

Concen: 45.748 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX008547.D

Acq: 29 Mar 2019 16:36

Instrument :

MSVOA_X

ClientSampleId :

DUP

Tot Ion:105 Resp: 432682

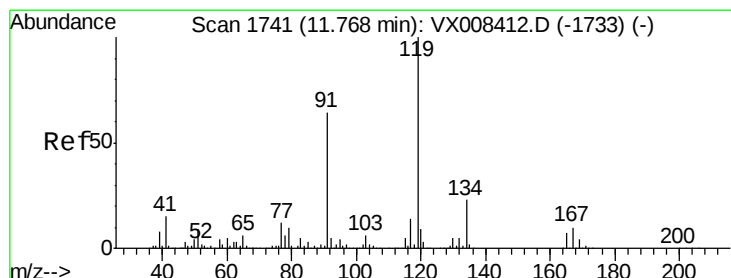
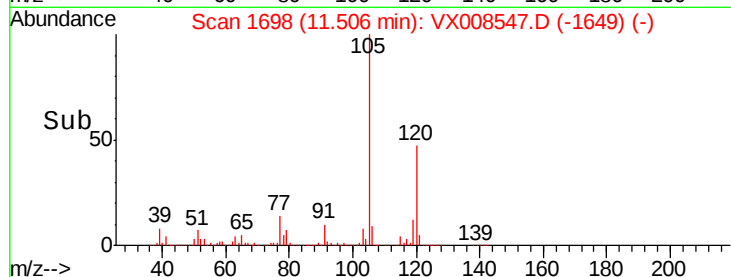
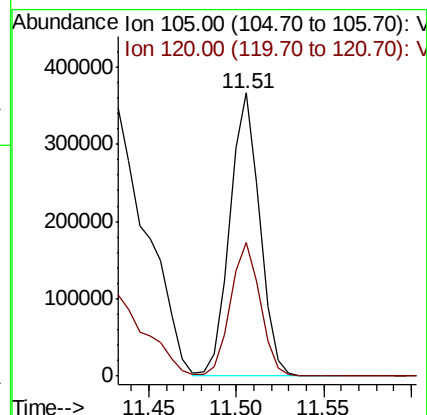
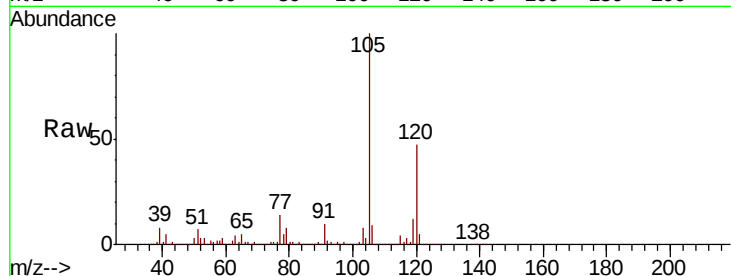
Ion Ratio Lower Upper

105 100

120 47.5 23.4 70.3

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#83

tert-Butylbenzene

Concen: 2.350 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX008547.D

Acq: 29 Mar 2019 16:36

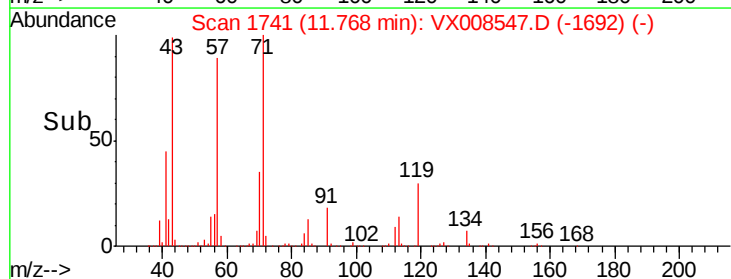
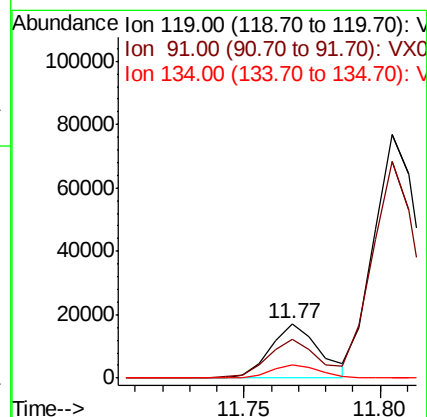
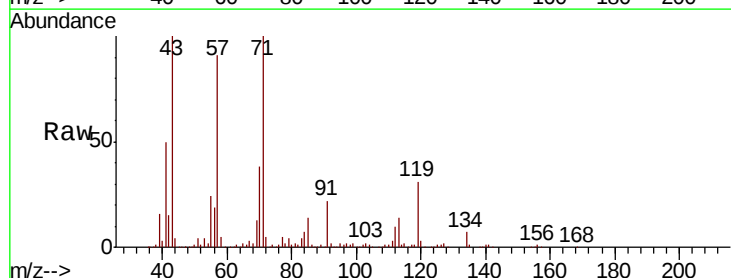
Tgt Ion:119 Resp: 21446

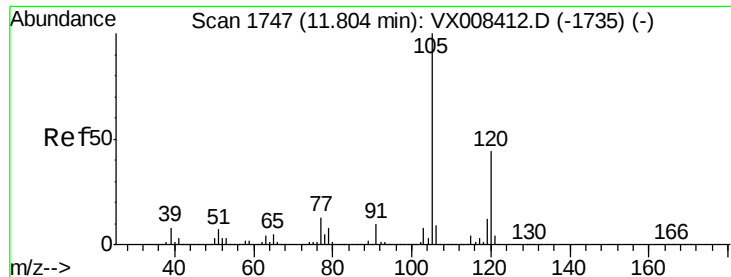
Ion Ratio Lower Upper

119 100

91 72.1 30.1 90.3

134 23.1 10.9 32.9





#84

1,2,4-Trimethylbenzene

Concen: 78.600 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX008547.D

Acq: 29 Mar 2019 16:36

Instrument :

MSVOA_X

ClientSampleId :

DUP

Tot Ion:105 Resp: 751916

Ion Ratio Lower Upper

105 100

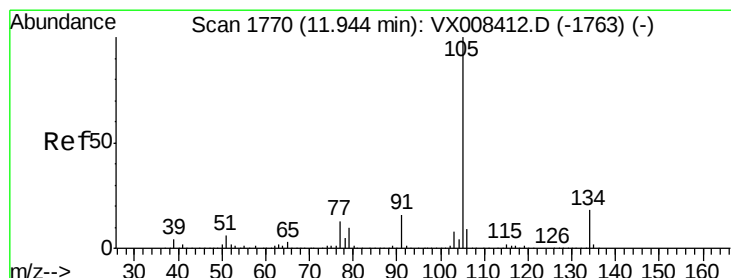
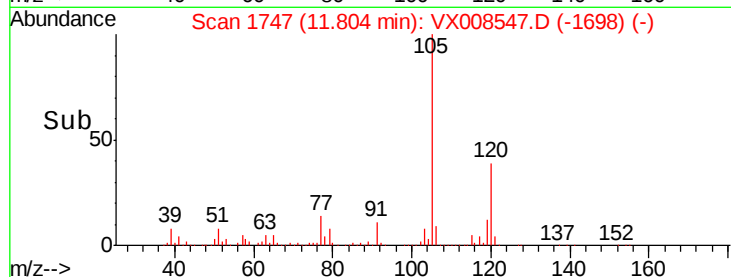
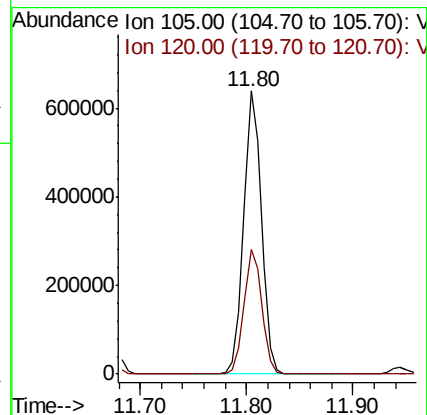
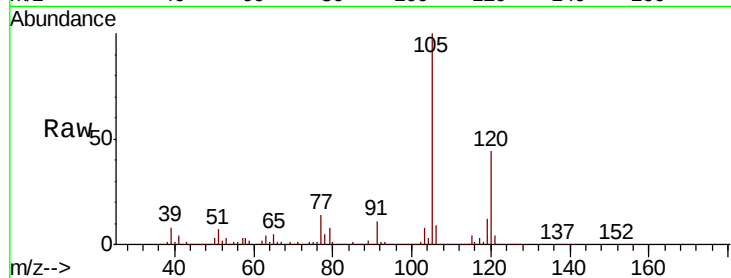
120 44.6 21.6 65.0

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#85

sec-Butylbenzene

Concen: 1.642 ug/l m

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX008547.D

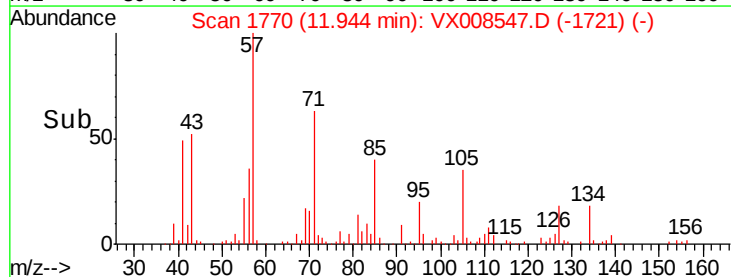
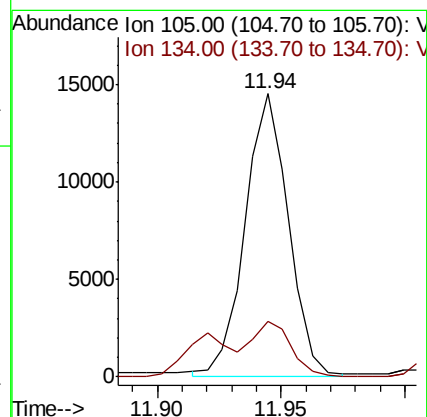
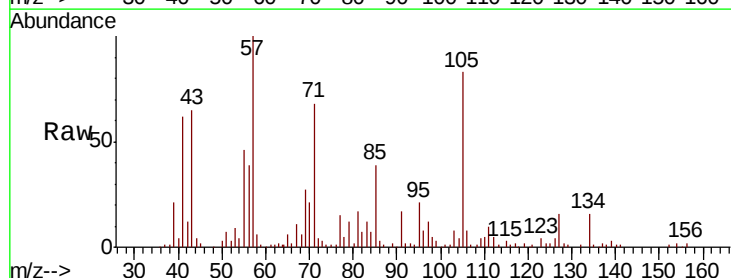
Acq: 29 Mar 2019 16:36

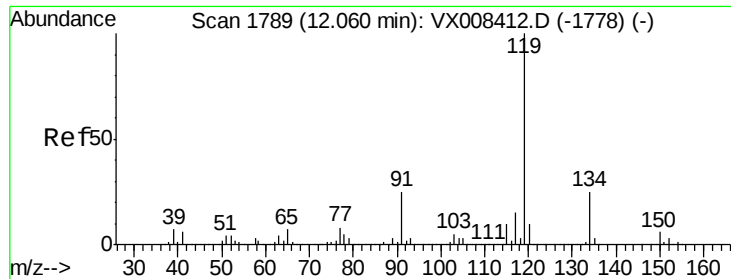
Tgt Ion:105 Resp: 17839

Ion Ratio Lower Upper

105 100

134 0.0 9.3 28.0#





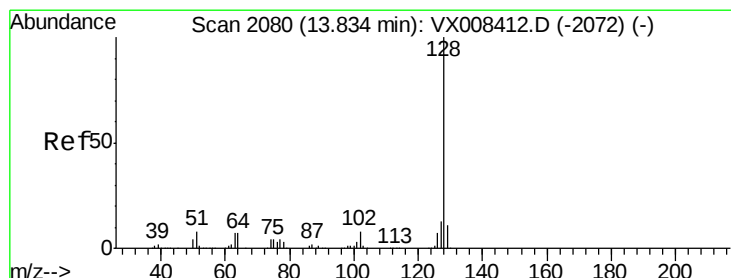
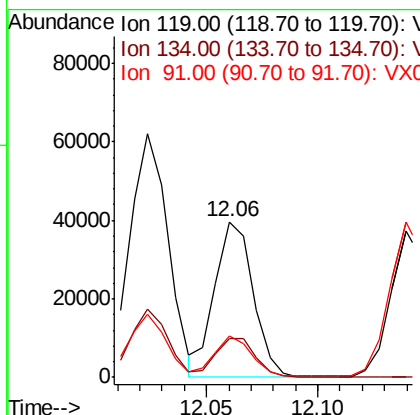
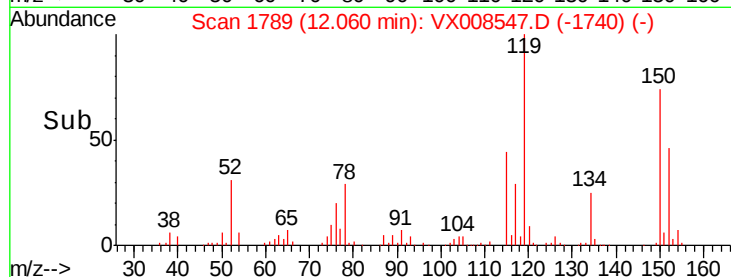
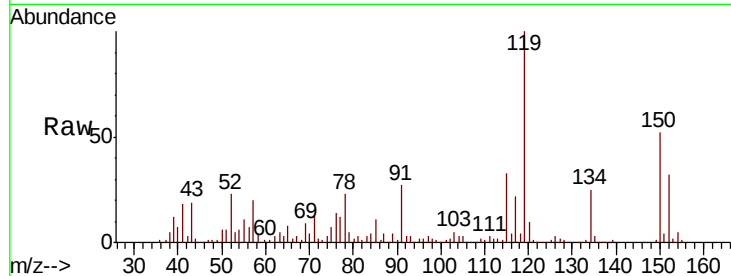
#86
 p-Isopropyltoluene
 Concen: 4.980 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VX008547.D
 Acq: 29 Mar 2019 16:36

Instrument :
 MSVOA_X
 ClientSampled :
 DUP

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.8	38.4
91	25.0	12.4	37.0

Manual Integrations
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 3/30/2019 9:50:48 AM



#95
 Naphthalene
 Concen: 17.274 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX008547.D
 Acq: 29 Mar 2019 16:36

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	11.1	8.7	13.1

