

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010719\
 Data File : VF061278.D
 Acq On : 7 Jan 2019 14:42
 Operator : VA/AP
 Sample : K1012-03
 Misc : 6.94g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EO-02-010419-B

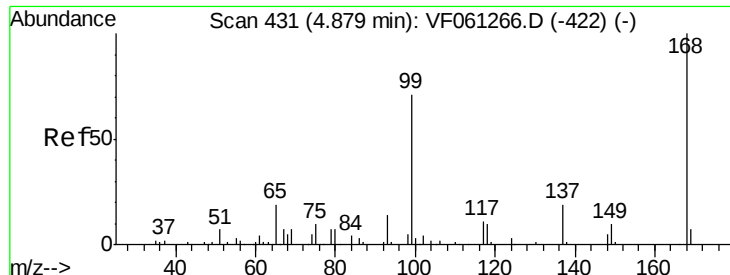
Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:58:14 PM

Quant Time: Jan 08 00:49:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010319S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 04 03:27:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	48423	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.57	114	74449	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	53326	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.53	152	15402	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	19246	31.31	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	62.62%	
35) Dibromofluoromethane	4.09	113	27647	48.27	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	96.54%	
50) Toluene-d8	7.53	98	74761	43.98	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	87.96%	
62) 4-Bromofluorobenzene	11.39	95	22815	30.29	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	60.58%	
Target Compounds						
					Qvalue	
20) Methylene Chloride	2.17	84	3898	3.633	ug/l #	93
31) Cyclohexane	3.68	56	7569	7.515	ug/l #	93
39) Methylcyclohexane	5.44	83	11376	12.137	ug/l #	74
40) Benzene	4.60	78	34436	17.305	ug/l	93
52) Toluene	7.60	92	30831	23.728	ug/l	92
67) Ethyl Benzene	9.88	91	15892	7.973	ug/l	95
68) m/p-Xylenes	10.11	106	17505	24.064	ug/l	88
69) o-Xylene	10.69	106	9487	12.056	ug/l	81
73) Isopropylbenzene	11.10	105	1841	1.407	ug/l	95
78) n-propylbenzene	11.58	91	3657	2.345	ug/l #	70
80) 1,3,5-Trimethylbenzene	11.80	105	11439	10.830	ug/l	97
84) 1,2,4-Trimethylbenzene	12.19	105	22735	21.622	ug/l	98
85) sec-Butylbenzene	12.30	105	1648	1.116	ug/l	100
86) p-Isopropyltoluene	12.44	119	2679m	2.201	ug/l	
95) Naphthalene	14.44	128	22603	33.731	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF061278.D

Acq: 7 Jan 2019 14:42

Instrument :

MSVOA_F

ClientSampleId :

EO-02-010419-B

Tot Ion:168 Resp: 48423

Ion Ratio Lower Upper

168 100

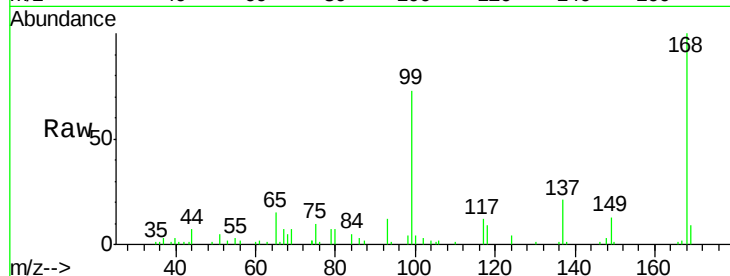
99 72.5 57.0 85.6

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Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

4.85

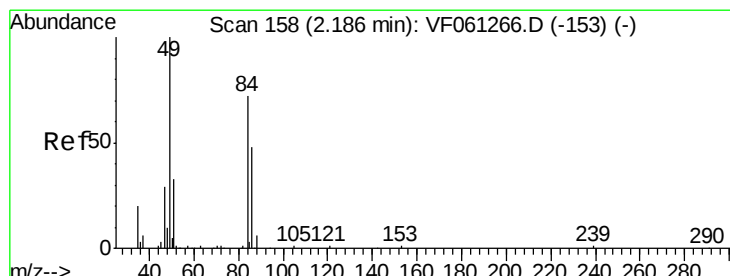
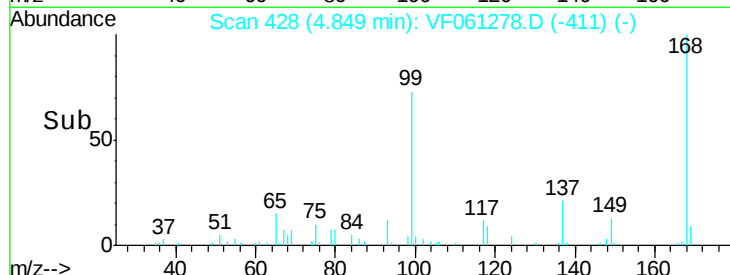
15000

10000

5000

0

Time--> 4.70 4.80 4.90 5.00



#20

Methylene Chloride

Concen: 3.633 ug/l

RT: 2.17 min Scan# 156

Delta R.T. -0.02 min

Lab File: VF061278.D

Acq: 7 Jan 2019 14:42

Tgt Ion: 84 Resp: 3898

Ion Ratio Lower Upper

84 100

49 145.6 112.9 169.3

51 65.6 37.9 56.9#

86 66.3 53.8 80.8

Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

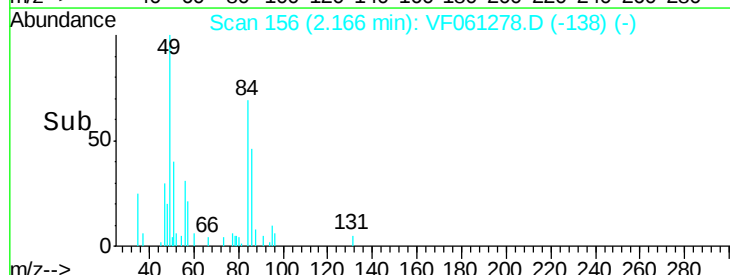
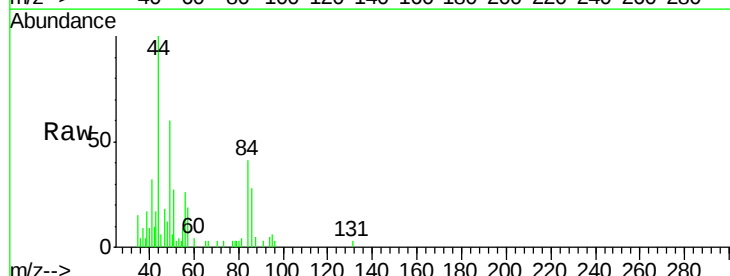
3000

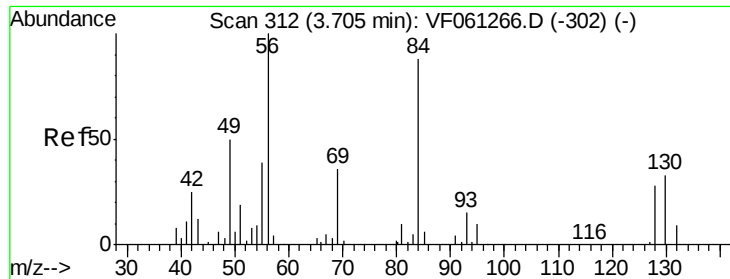
2000

1000

0

Time--> 2.10 2.15 2.20 2.25





#31

Cyclohexane

Concen: 7.515 ug/l

RT: 3.68 min Scan# 310

Delta R.T. -0.02 min

Lab File: VF061278.D

Acq: 7 Jan 2019 14:42

Instrument :

MSVOA_F

ClientSampleId :

EO-02-010419-B

Tot Ion: 56 Resp: 7569

Ion Ratio Lower Upper

56 100

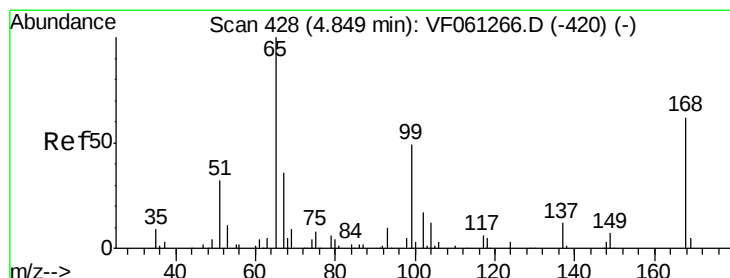
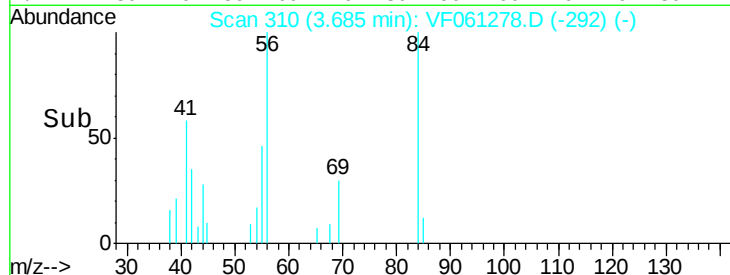
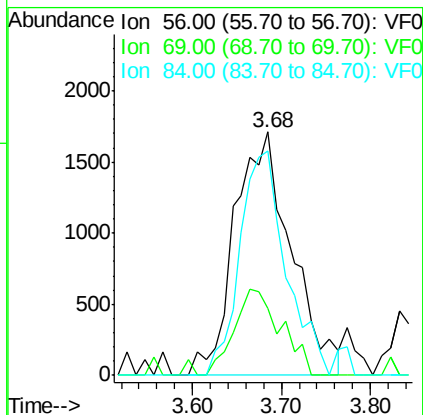
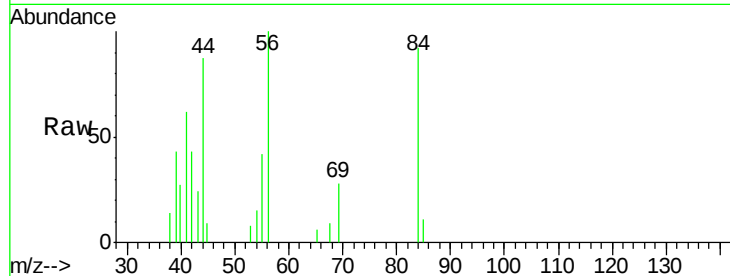
69 27.7 28.7 43.1#

84 92.2 70.6 106.0

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#33

1,2-Dichloroethane-d4

Concen: 31.311 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061278.D

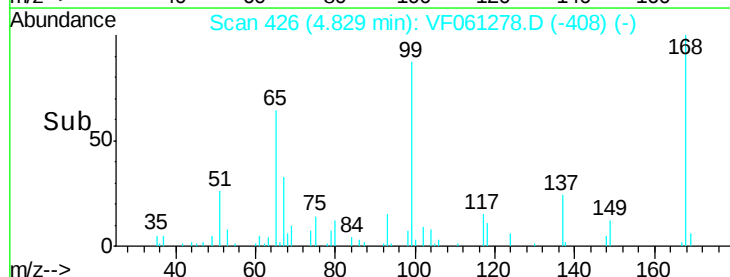
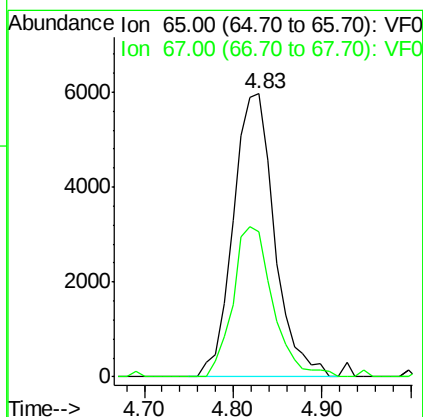
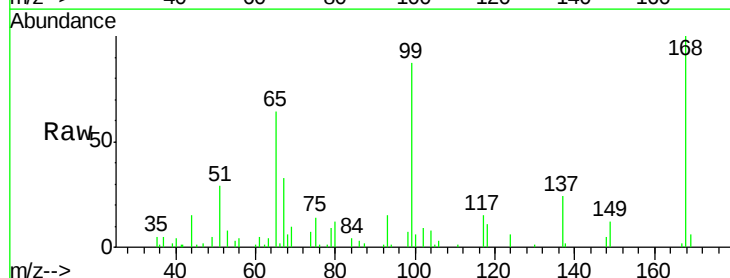
Acq: 7 Jan 2019 14:42

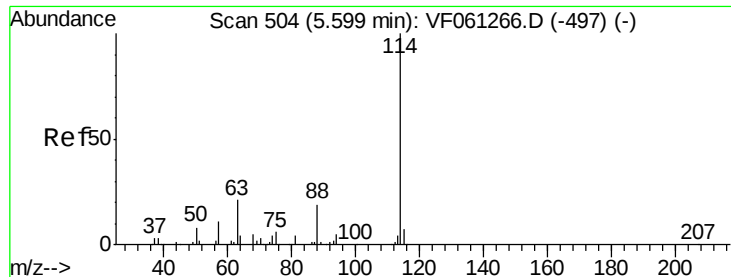
Tgt Ion: 65 Resp: 19246

Ion Ratio Lower Upper

65 100

67 51.3 0.0 90.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.57 min Scan# 501

Delta R.T. -0.03 min

Lab File: VF061278.D

Acq: 7 Jan 2019 14:42

Instrument :

MSVOA_F

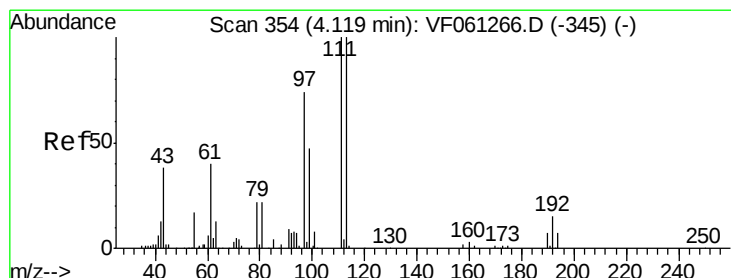
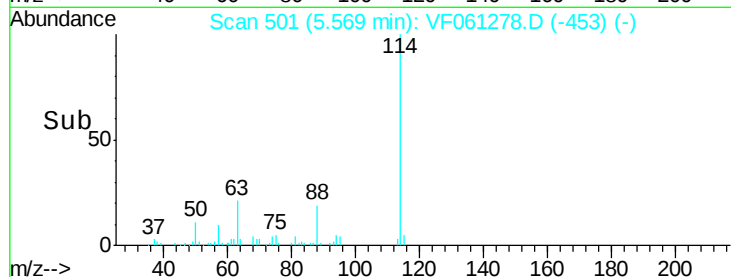
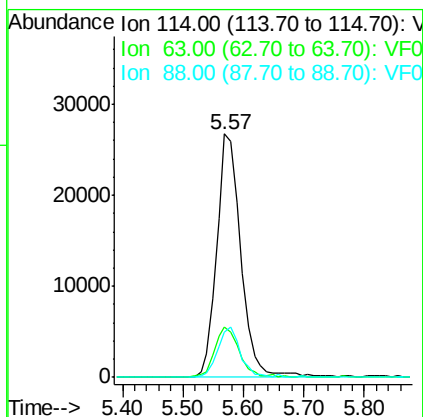
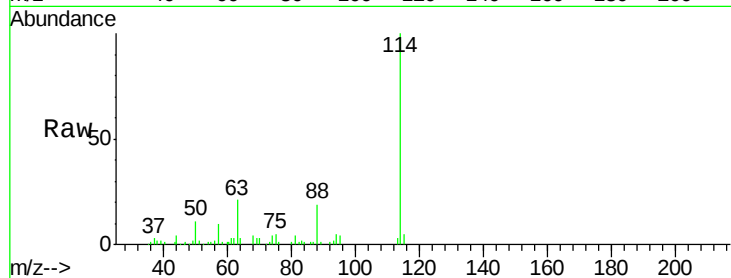
ClientSampleId :

EO-02-010419-B

Tot Ion:	114	Resp:	74449
Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.8
88	18.8	0.0	38.4

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#35

Dibromofluoromethane

Concen: 48.269 ug/l

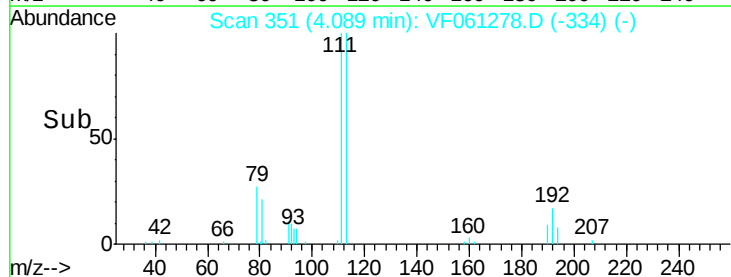
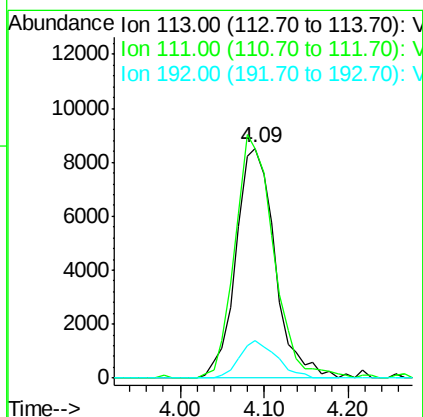
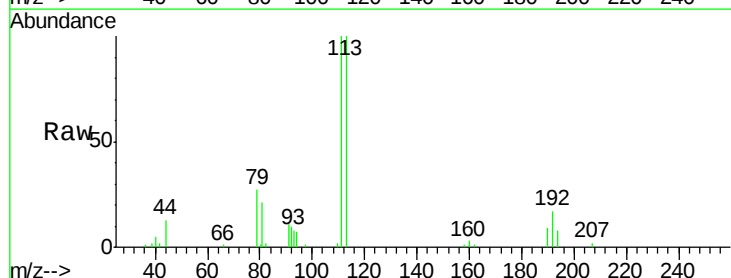
RT: 4.09 min Scan# 351

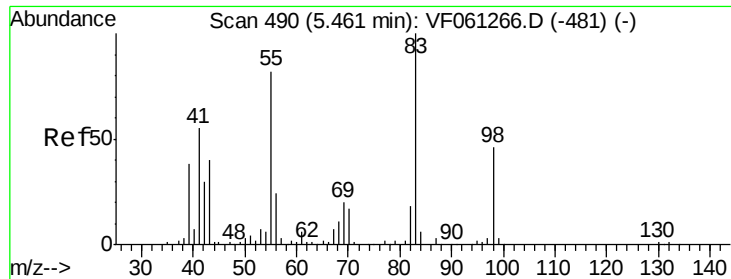
Delta R.T. -0.03 min

Lab File: VF061278.D

Acq: 7 Jan 2019 14:42

Tgt Ion:	113	Resp:	27647
Ion	Ratio	Lower	Upper
113	100		
111	99.8	79.8	119.6
192	16.6	11.9	17.9





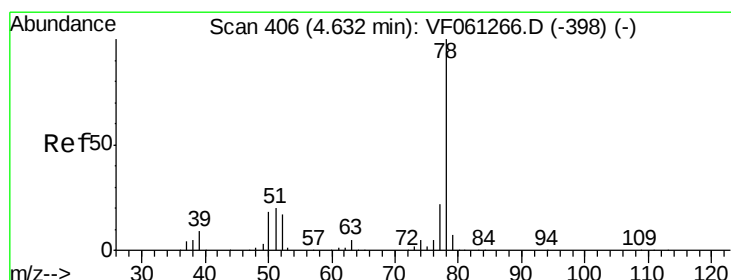
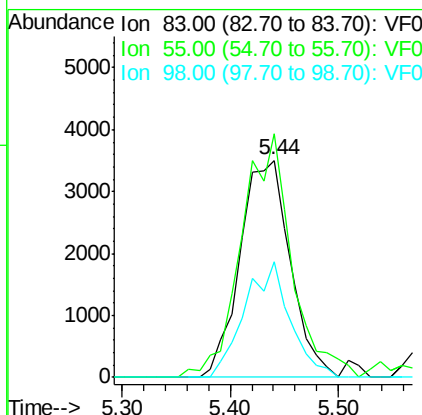
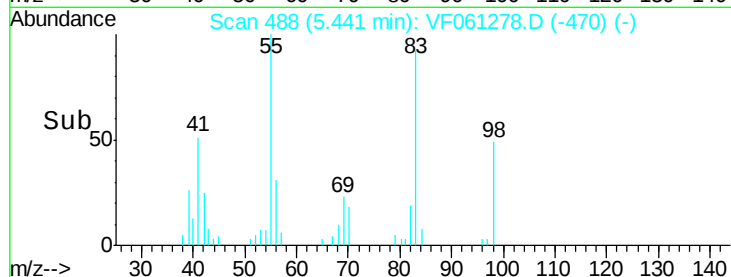
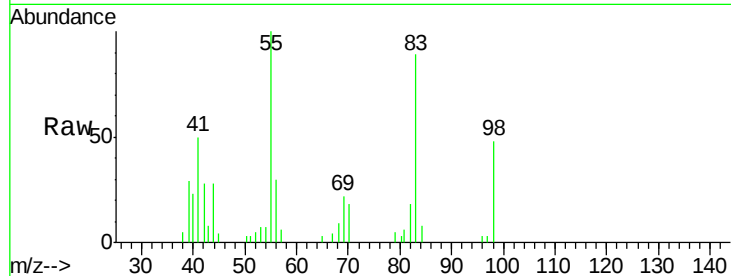
#39
Methvlcvclohexane
Concen: 12.137 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061278.D
Acq: 7 Jan 2019 14:42

Instrument :
MSVOA_F
ClientSampleId :
EO-02-010419-B

Tot Ion	Ratio	Lower	Upper
83	100		
55	112.2	65.6	98.4#
98	53.4	36.7	55.1

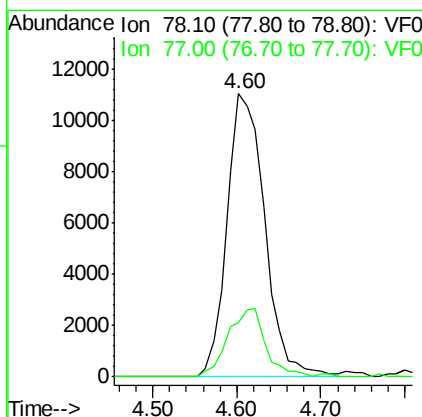
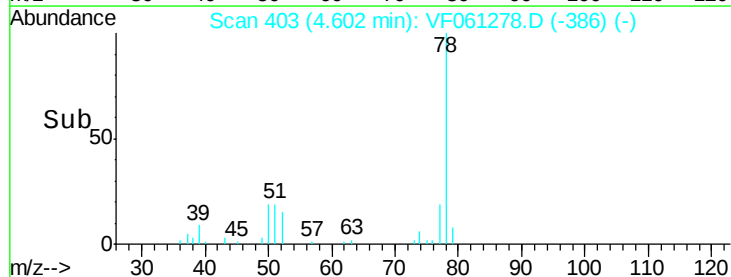
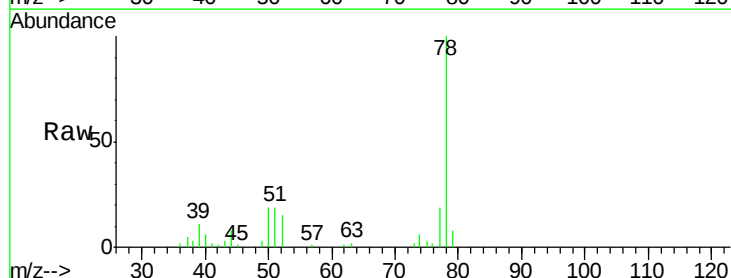
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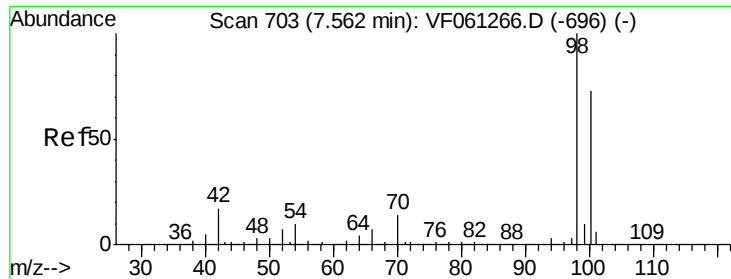
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#40
Benzene
Concen: 17.305 ug/l
RT: 4.60 min Scan# 403
Delta R.T. -0.03 min
Lab File: VF061278.D
Acq: 7 Jan 2019 14:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.2	18.0	27.0





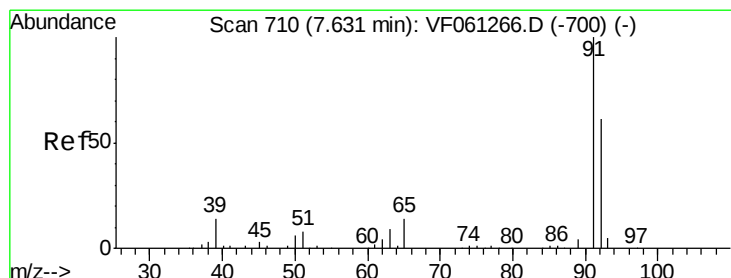
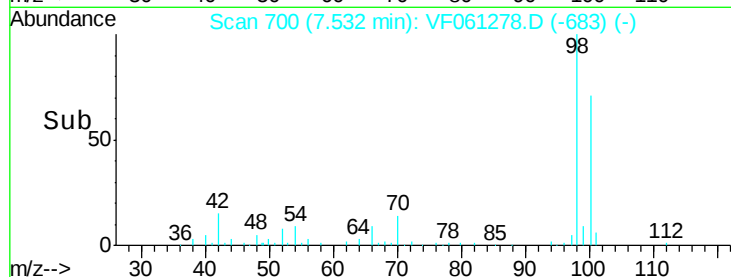
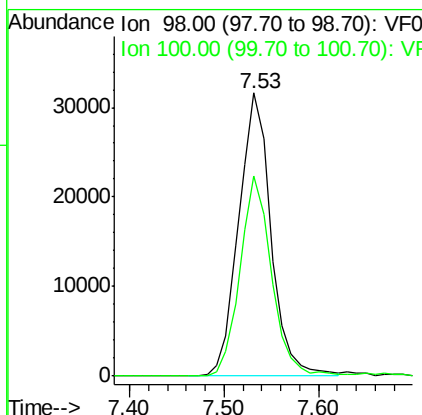
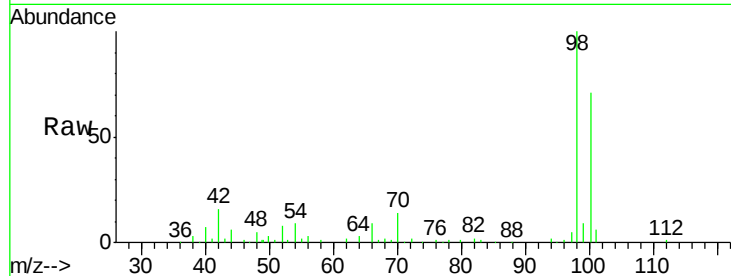
#50
Toluene-d8
Concen: 43.985 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061278.D
Acq: 7 Jan 2019 14:42

Instrument :
MSVOA_F
ClientSampleId :
EO-02-010419-B

Tot Ion: 98 Resp: 74761
Ion Ratio Lower Upper
98 100
100 70.6 58.1 87.1

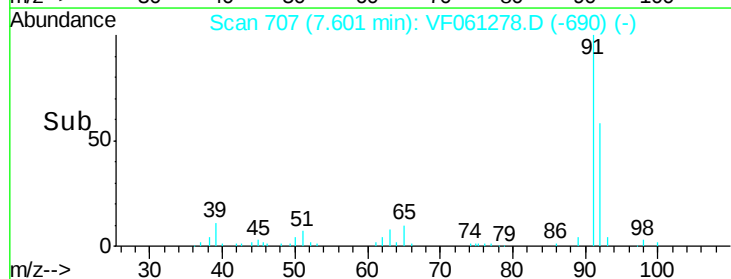
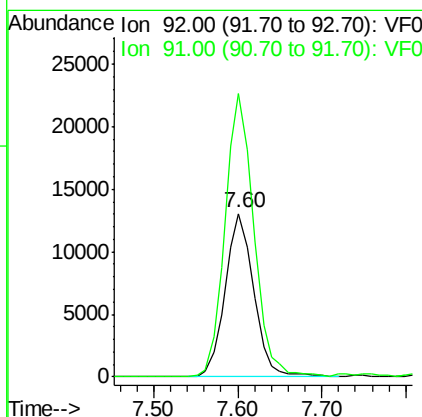
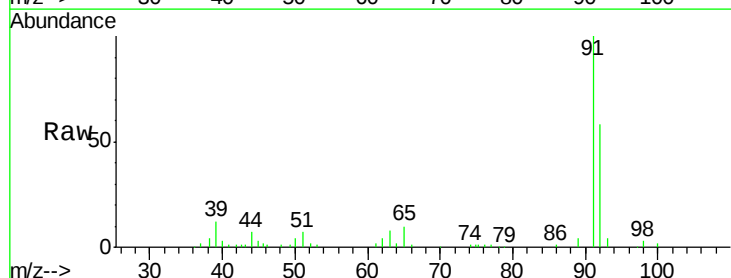
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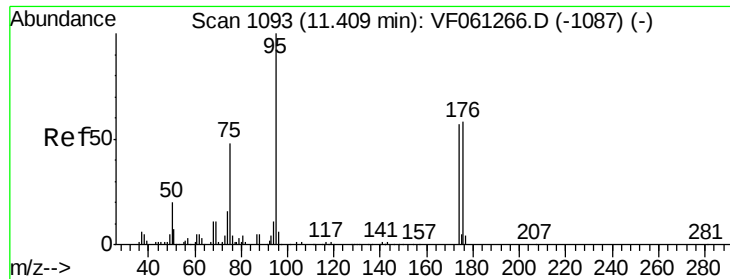
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#52
Toluene
Concen: 23.728 ug/l
RT: 7.60 min Scan# 707
Delta R.T. -0.03 min
Lab File: VF061278.D
Acq: 7 Jan 2019 14:42

Tgt Ion: 92 Resp: 30831
Ion Ratio Lower Upper
92 100
91 173.2 130.5 195.7





#62

4-Bromofluorobenzene

Concen: 30.294 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VF061278.D

Acq: 7 Jan 2019 14:42

Instrument :

MSVOA_F

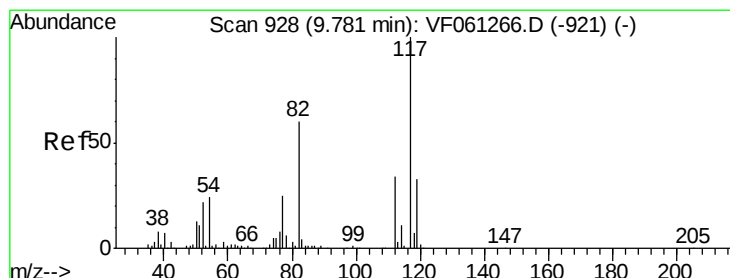
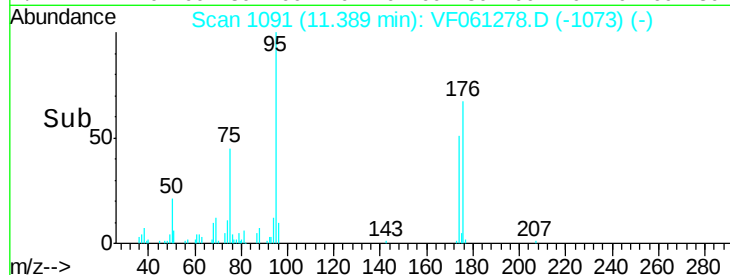
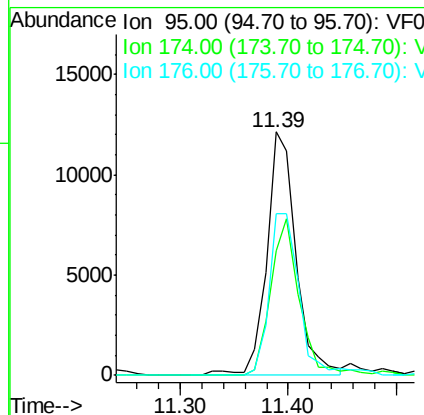
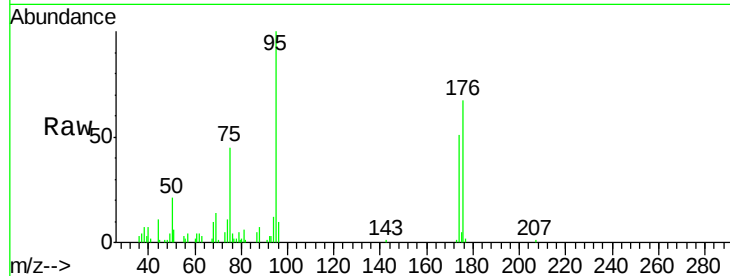
ClientSampleId :

EO-02-010419-B

Tot Ion:	95	Resp:	22815
Ion Ratio	Lower	Upper	
95	100		
174	50.9	0.0	113.2
176	68.7	0.0	115.6

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

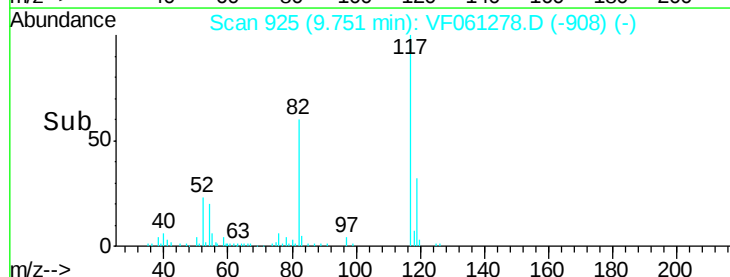
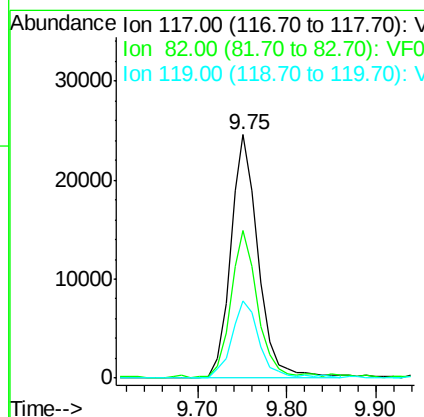
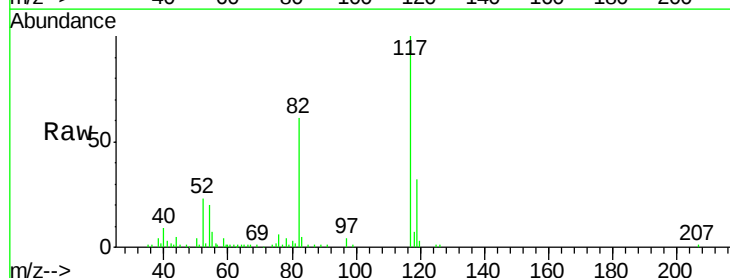
RT: 9.75 min Scan# 925

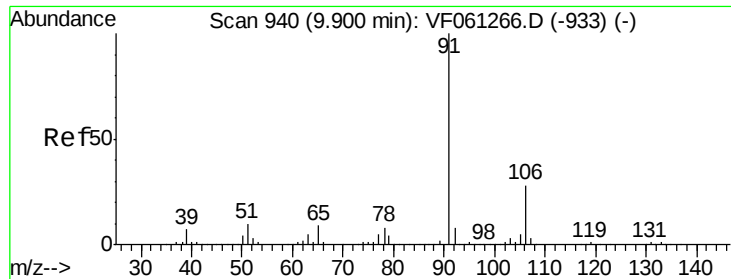
Delta R.T. -0.03 min

Lab File: VF061278.D

Acq: 7 Jan 2019 14:42

Tgt Ion:	117	Resp:	53326
Ion Ratio	Lower	Upper	
117	100		
82	60.7	47.8	71.6
119	31.6	26.1	39.1





#67

Ethyl Benzene

Concen: 7.973 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.02 min

Lab File: VF061278.D

Acq: 7 Jan 2019 14:42

Instrument :

MSVOA_F

ClientSampleId :

EO-02-010419-B

Tot Ion: 91 Resp: 15892

Ion Ratio Lower Upper

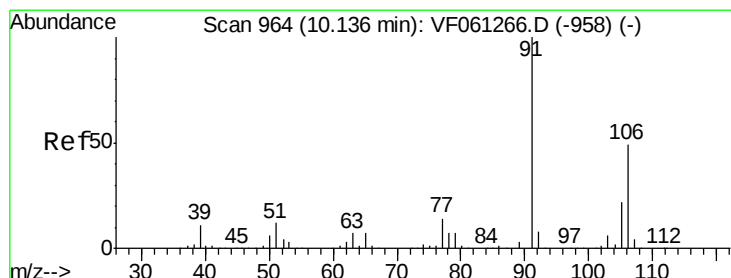
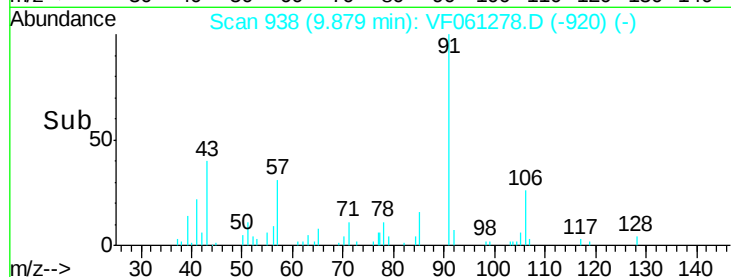
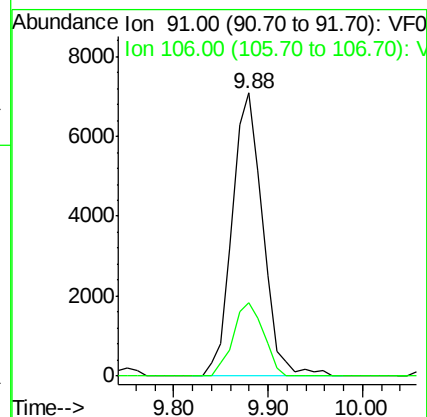
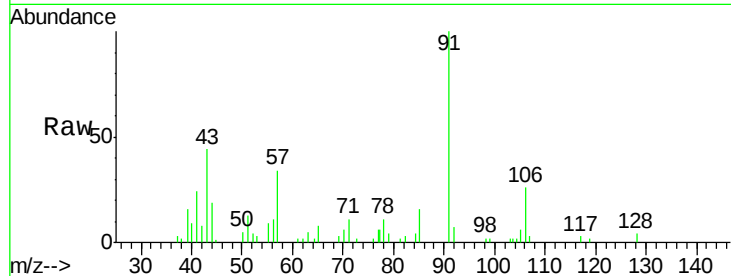
91 100

106 25.8 22.8 34.2

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#68

m/p-Xylenes

Concen: 24.064 ug/l

RT: 10.11 min Scan# 961

Delta R.T. -0.03 min

Lab File: VF061278.D

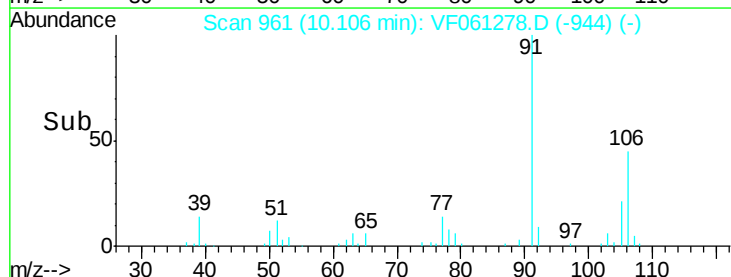
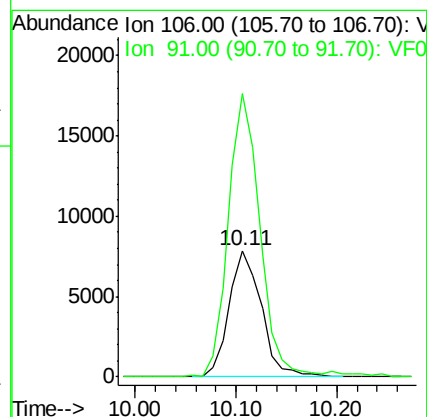
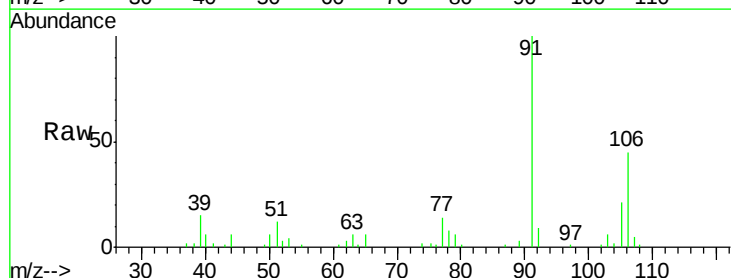
Acq: 7 Jan 2019 14:42

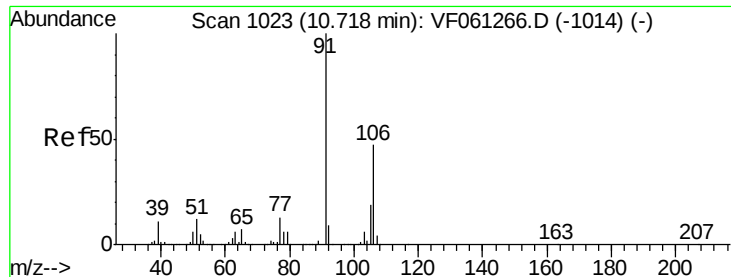
Tgt Ion: 106 Resp: 17505

Ion Ratio Lower Upper

106 100

91 224.6 164.8 247.2





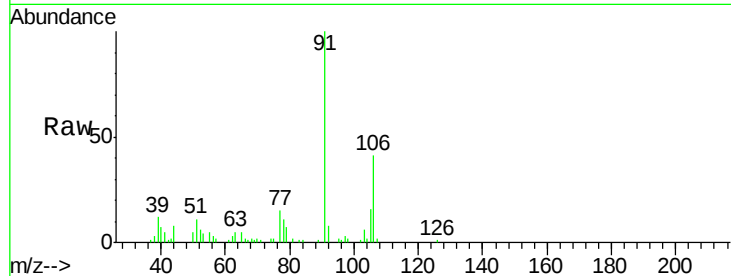
#69
o-Xylene
Concen: 12.056 ug/l
RT: 10.69 min Scan# 1020
Delta R.T. -0.03 min
Lab File: VF061278.D
Acq: 7 Jan 2019 14:42

Instrument :
MSVOA_F
ClientSampleId :
EO-02-010419-B

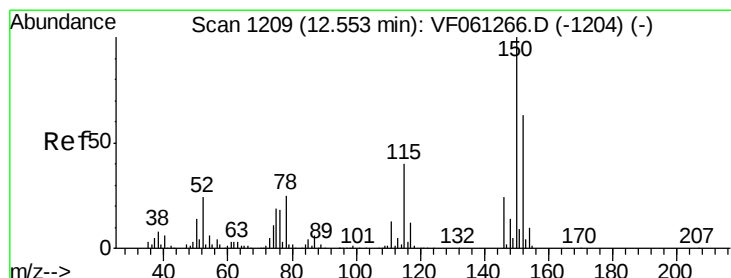
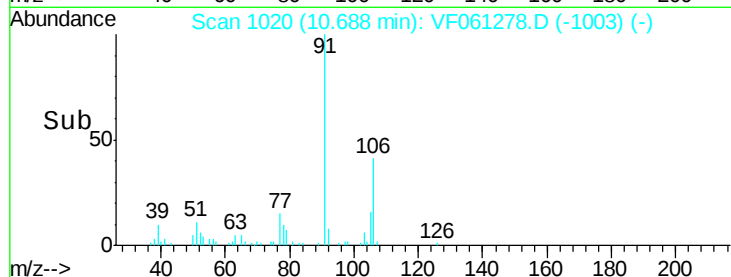
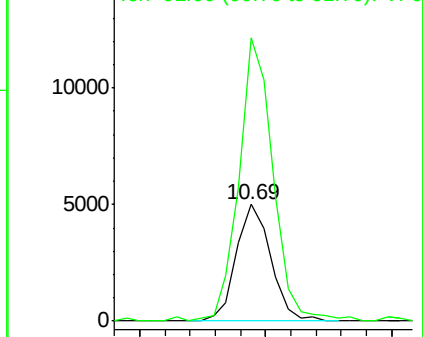
Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		9487		
91	242.5	106.2	318.5		

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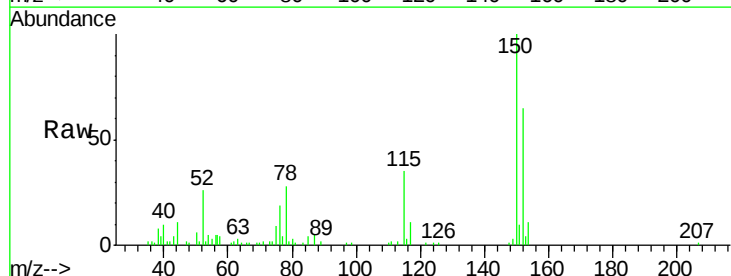


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

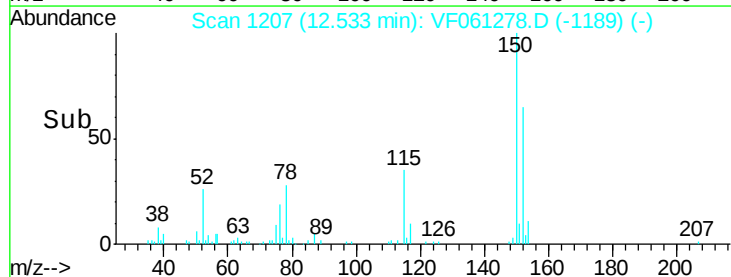
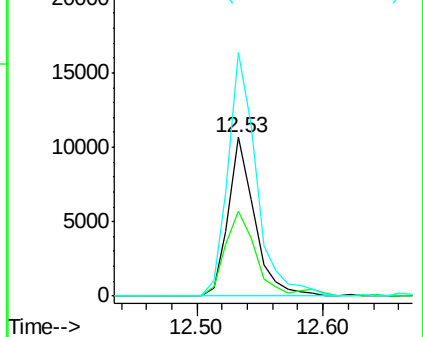


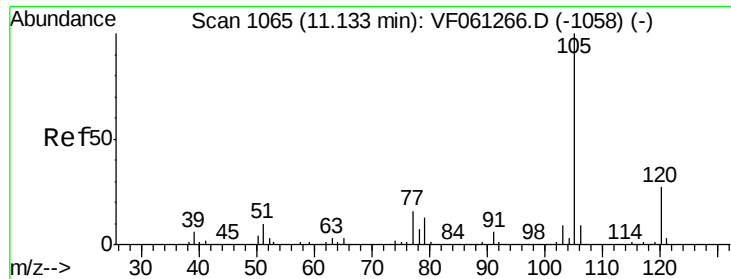
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.53 min Scan# 1207
Delta R.T. -0.02 min
Lab File: VF061278.D
Acq: 7 Jan 2019 14:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100		15402		
115	53.4	31.6	94.7		
150	153.5	0.0	320.2		



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 1.407 ug/l

RT: 11.10 min Scan# 1062

Delta R.T. -0.03 min

Lab File: VF061278.D

Acq: 7 Jan 2019 14:42

Instrument :

MSVOA_F

ClientSampleId :

EO-02-010419-B

Tot Ion: 105 Resp: 1841

Ion Ratio Lower Upper

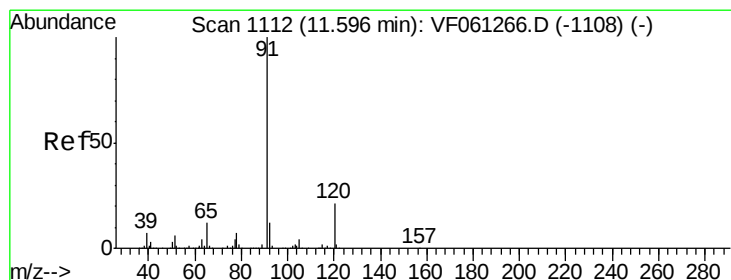
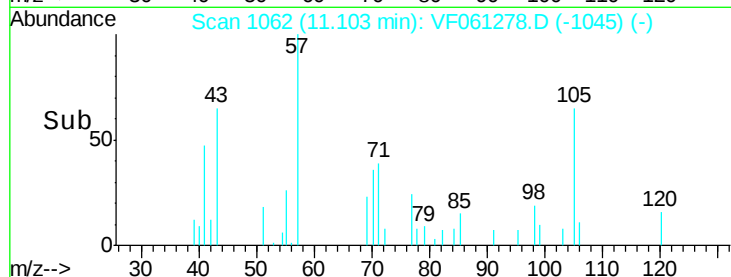
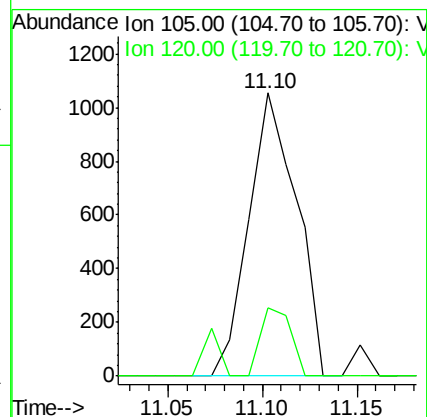
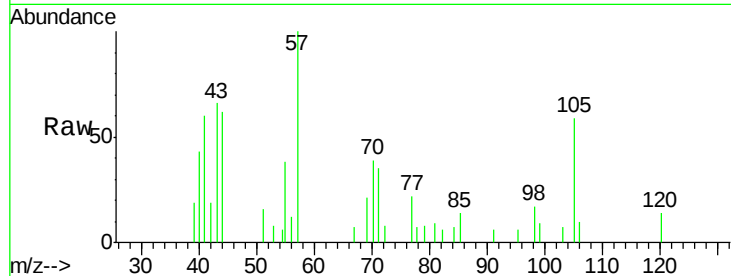
105 100

120 24.1 13.4 40.1

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#78

n-propylbenzene

Concen: 2.345 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VF061278.D

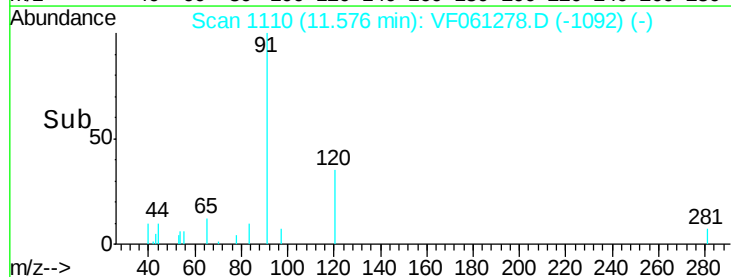
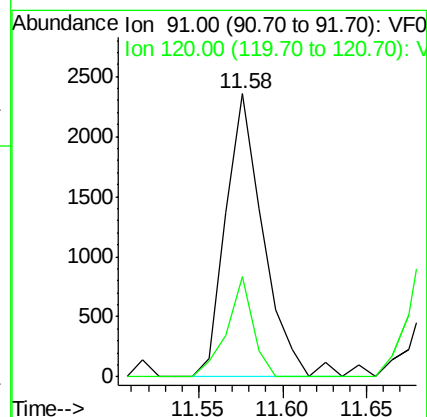
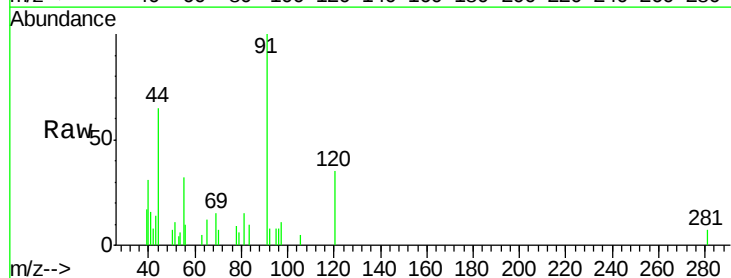
Acq: 7 Jan 2019 14:42

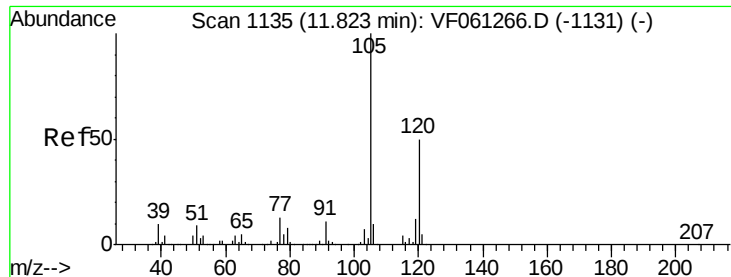
Tgt Ion: 91 Resp: 3657

Ion Ratio Lower Upper

91 100

120 35.3 10.6 31.8#





#80

1,3,5-Trimethylbenzene

Concen: 10.830 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.02 min

Lab File: VF061278.D

Acq: 7 Jan 2019 14:42

Instrument :

MSVOA_F

ClientSampleId :

EO-02-010419-B

Tot Ion:105 Resp: 11439

Ion Ratio Lower Upper

105 100

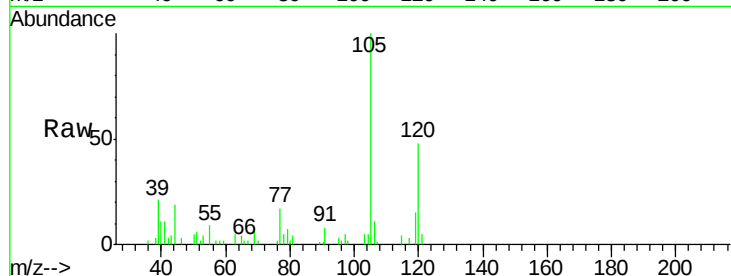
120 47.8 24.8 74.4

Manual Integrations

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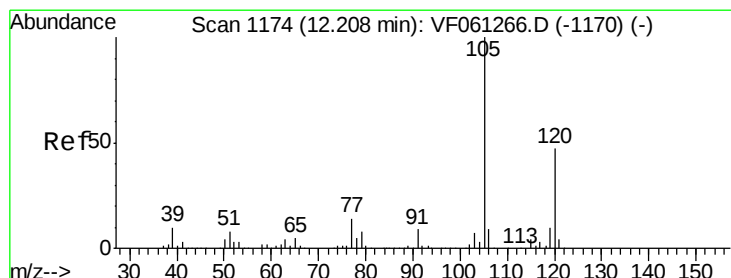
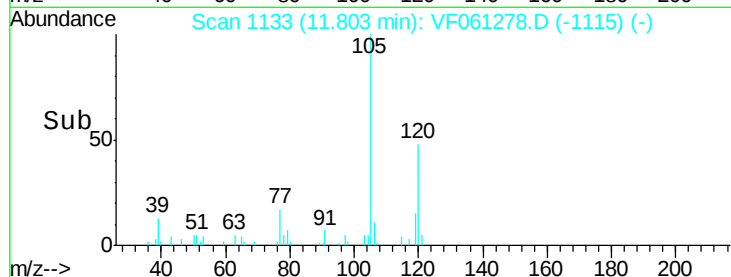
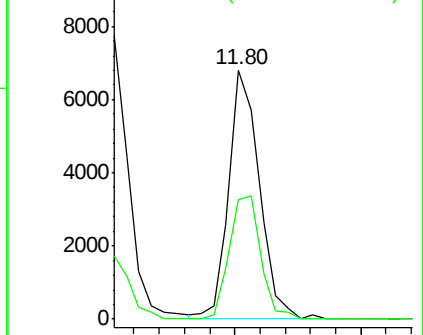
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.622 ug/l

RT: 12.19 min Scan# 1172

Delta R.T. -0.02 min

Lab File: VF061278.D

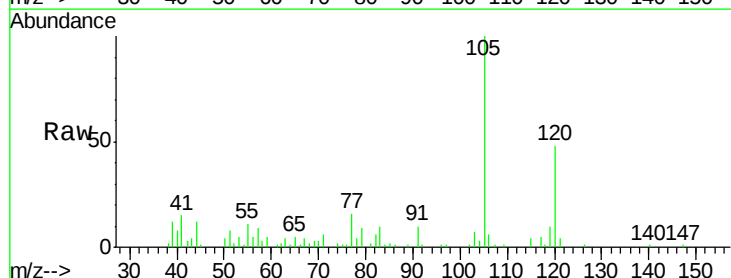
Acq: 7 Jan 2019 14:42

Tgt Ion:105 Resp: 22735

Ion Ratio Lower Upper

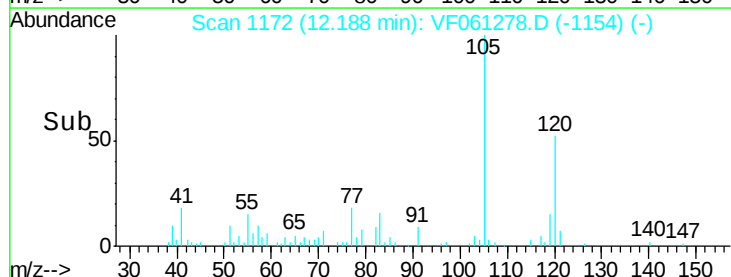
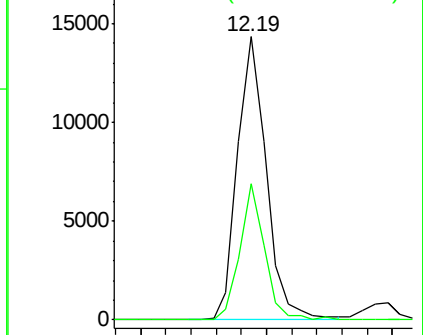
105 100

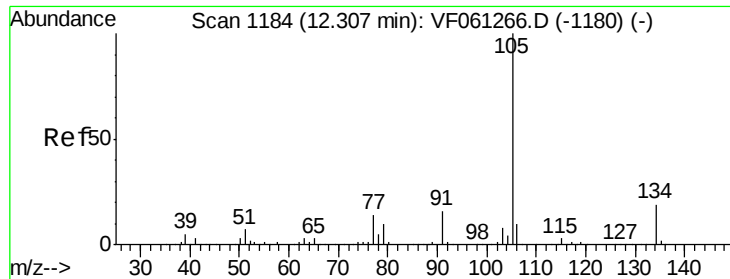
120 48.2 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





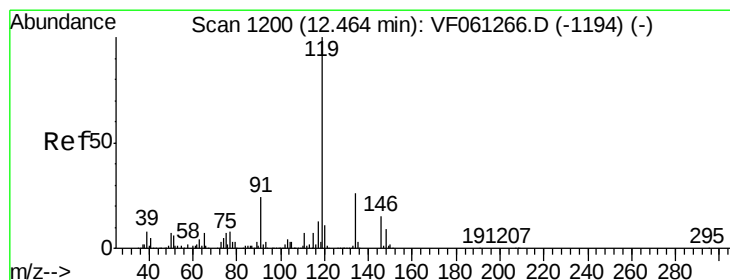
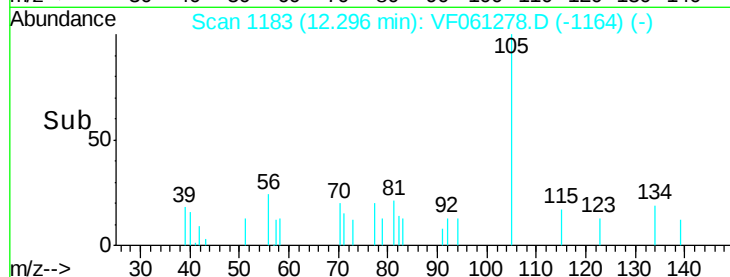
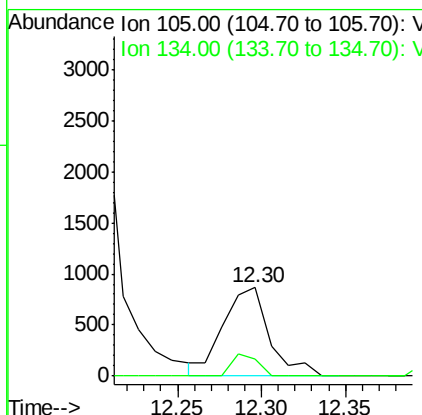
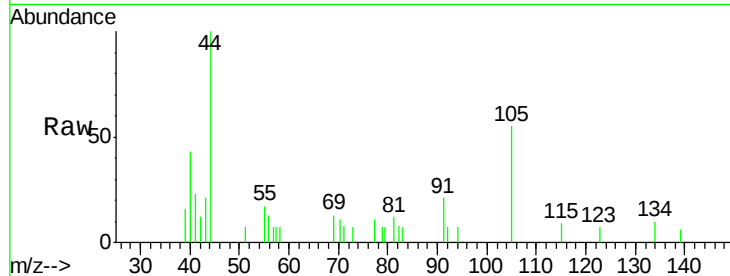
#85
 sec-Butylbenzene
 Concen: 1.116 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: VF061278.D
 Acq: 7 Jan 2019 14:42

Instrument :
 MSVOA_F
 ClientSampleId :
 EO-02-010419-B

Tot Ion:105 Resp: 1648
 Ion Ratio Lower Upper
 105 100
 134 18.9 9.4 28.2

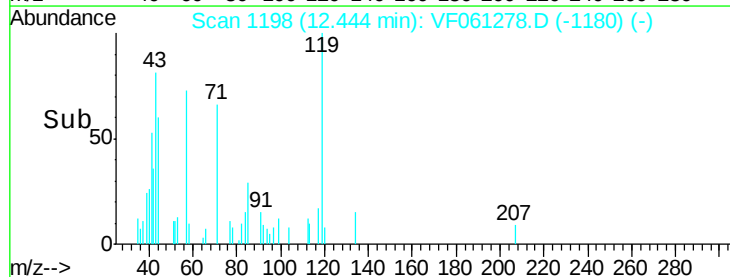
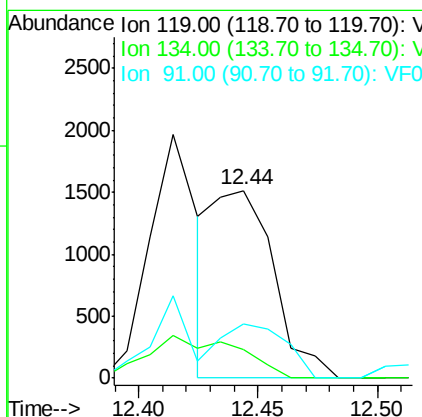
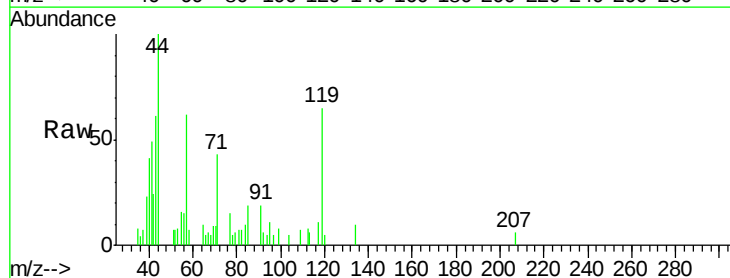
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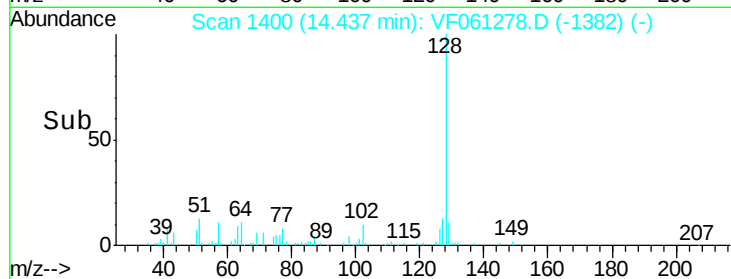
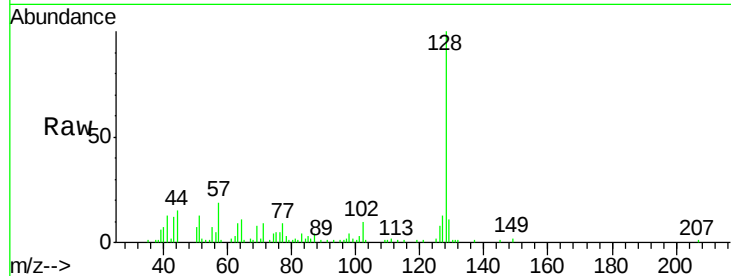
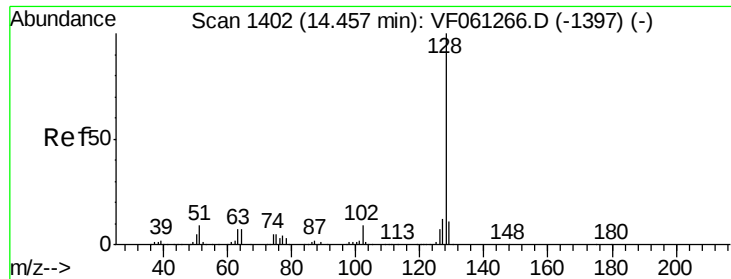
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#86
 p-Isopropyltoluene
 Concen: 2.201 ug/l m
 RT: 12.44 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: VF061278.D
 Acq: 7 Jan 2019 14:42

Tgt Ion:119 Resp: 2679
 Ion Ratio Lower Upper
 119 100
 134 15.4 13.2 39.6
 91 29.0 11.9 35.7





#95
Naphthalene
Concen: 33.731 ug/l
RT: 14.44 min Scan# 1400
Delta R.T. -0.02 min
Lab File: VF061278.D
Acq: 7 Jan 2019 14:42

Instrument :
MSVOA_F
ClientSampleId :
EO-02-010419-B

Tot Ion	Ratio	Resp	Lower	Upper
128	100	22603		
127	12.9		9.8	14.6
129	10.8		9.0	13.4

Manual Integrations
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