

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122418\
 Data File : VF061171.D
 Acq On : 24 Dec 2018 18:05
 Operator : VA/AP
 Sample : J6389-08RE
 Misc : 5.10g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS013-1824-01RE

Manual Integrations
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Quant Time: Dec 25 05:58:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	40104	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	68674	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	40228	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	14080	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	23940	46.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.82%	
35) Dibromofluoromethane	4.12	113	25339	46.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.12%	
50) Toluene-d8	7.57	98	58744	37.68	ug/l	0.02
Spiked Amount	50.000		Recovery	=	75.36%	
62) 4-Bromofluorobenzene	11.42	95	22365	31.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	62.24%	

Target Compounds				Qvalue		
16) Acetone	2.23	43	176925	1715.796	ug/l	94
25) 2-Butanone	4.35	43	30809	184.228	ug/l	96
27) cis-1,2-Dichloroethene	3.48	96	50299	86.895	ug/l	92
31) Cyclohexane	3.69	56	85903m	114.017	ug/l	
39) Methylcyclohexane	5.46	83	146458	196.939	ug/l	99
40) Benzene	4.63	78	16310	9.149	ug/l	100
44) Trichloroethene	5.51	130	9457	16.827	ug/l	93
52) Toluene	7.69	92	11706395	9920.508	ug/l #	63
64) Tetrachloroethene	8.16	164	29362	94.883	ug/l	97
65) Chlorobenzene	9.81	112	24440	29.408	ug/l	98
67) Ethyl Benzene	9.91	91	3405951	2249.596	ug/l #	89
68) m/p-Xylenes	10.19	106	6106976	11461.580	ug/l #	64
69) o-Xylene	10.74	106	2517525	4260.222	ug/l #	1
70) Styrene	10.80	104	22858	29.767	ug/l #	86
73) Isopropylbenzene	11.13	105	112274	92.532	ug/l	100
78) n-propylbenzene	11.60	91	109414	97.305	ug/l	97
80) 1,3,5-Trimethylbenzene	11.82	105	213700	213.892	ug/l	95
84) 1,2,4-Trimethylbenzene	12.21	105	496095	497.929	ug/l	99
85) sec-Butylbenzene	12.31	105	19353	14.424	ug/l #	62
86) p-Isopropyltoluene	12.46	119	81402m	73.094	ug/l	
88) 1,4-Dichlorobenzene	12.56	146	8824	18.398	ug/l #	74
89) n-Butylbenzene	12.84	91	35508	28.752	ug/l #	40
91) 1,2-Dichlorobenzene	12.94	146	6760	14.477	ug/l #	68
93) 1,2,4-Trichlorobenzene	14.20	180	59541	179.799	ug/l	92
95) Naphthalene	14.46	128	164949	272.779	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.60	180	18614	60.803	ug/l	97

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

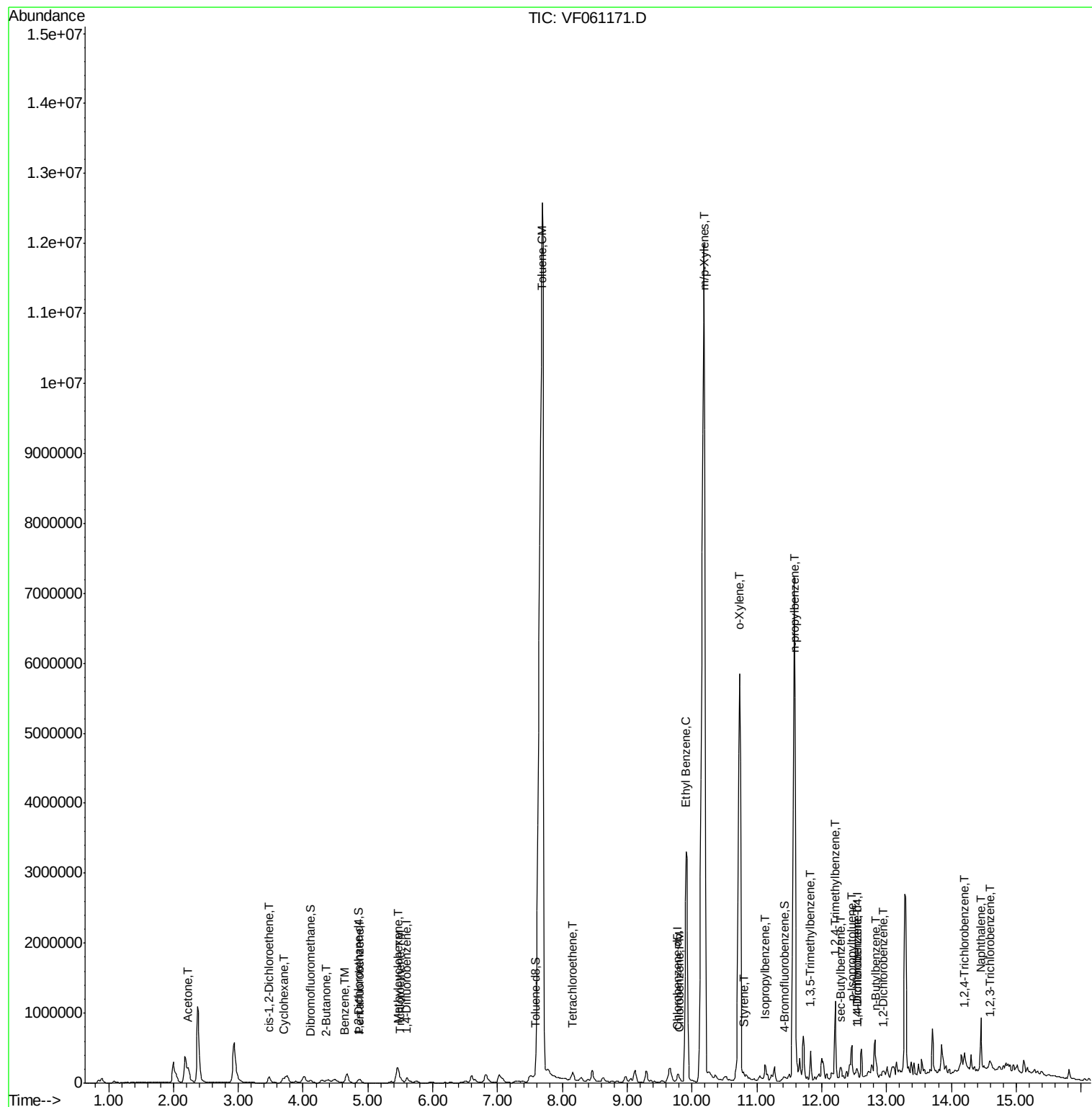
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF122418\
Data File : VF061171.D
Acq On : 24 Dec 2018 18:05
Operator : VA/AP
Sample : J6389-08RE
Misc : 5.10g/5mL/MSVOA-F/SOIL
ALS Vial : 16 Sample Multiplier: 1

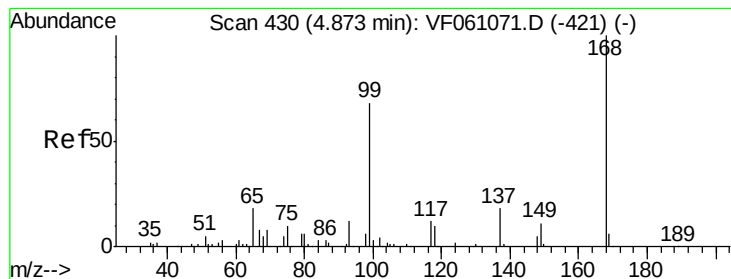
Instrument :
MSVOA_F
ClientSampleId :
P001-SS013-1824-01RE

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Quant Time: Dec 25 05:58:01 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061171.D

Acq: 24 Dec 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

P001-SS013-1824-01RE

Tot Ion:168 Resp: 40104

Ion Ratio Lower Upper

168 100

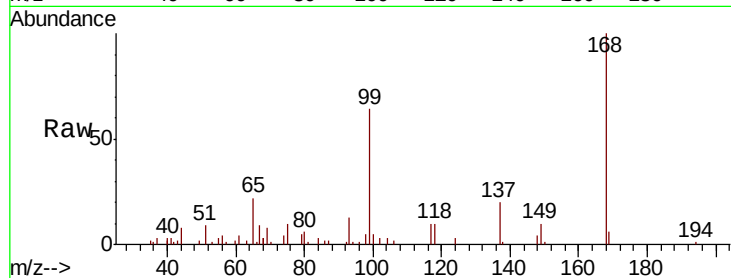
99 63.9 54.4 81.6

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

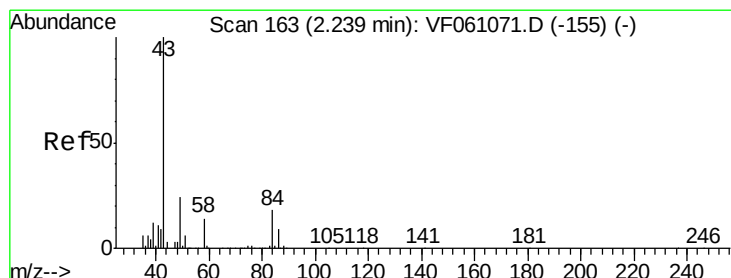
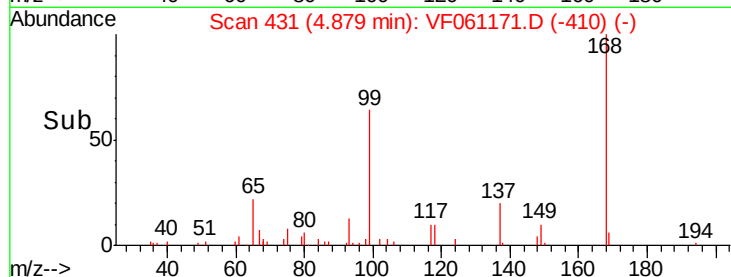
15000

10000

5000

0

Time-->



#16

Acetone

Concen: 1715.796 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061171.D

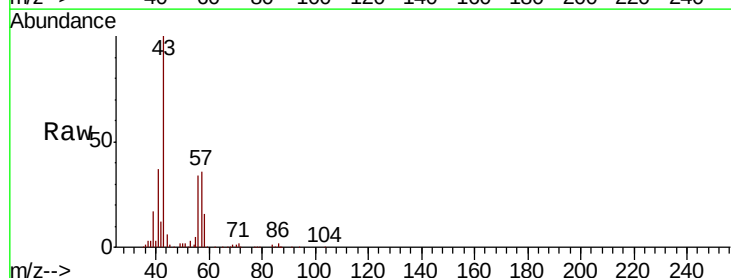
Acq: 24 Dec 2018 18:05

Tgt Ion: 43 Resp: 176925

Ion Ratio Lower Upper

43 100

58 16.2 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.23

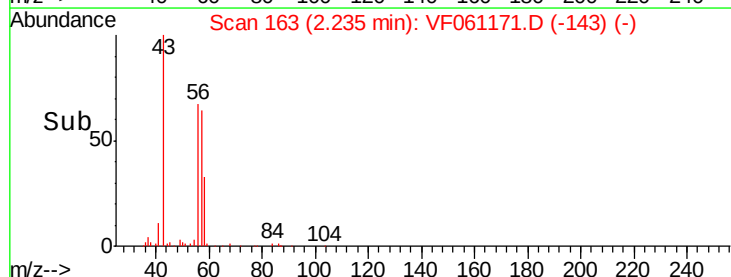
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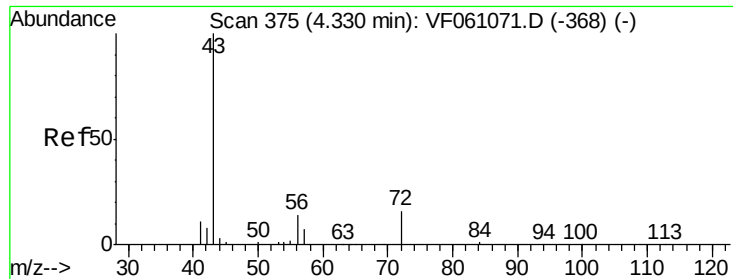
100000

50000

0

Time-->





#25

2-Butanone

Concen: 184.228 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061171.D

Acq: 24 Dec 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

P001-SS013-1824-01RE

Tot Ion: 43 Resp: 30809

Ion Ratio Lower Upper

43 100

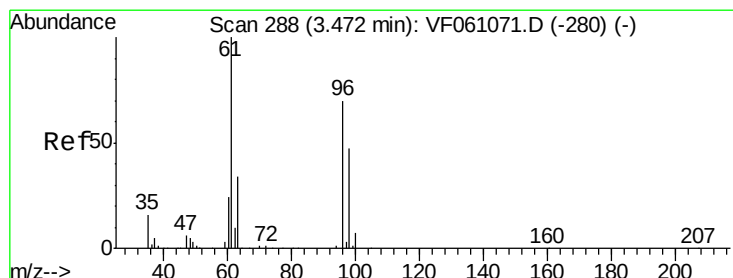
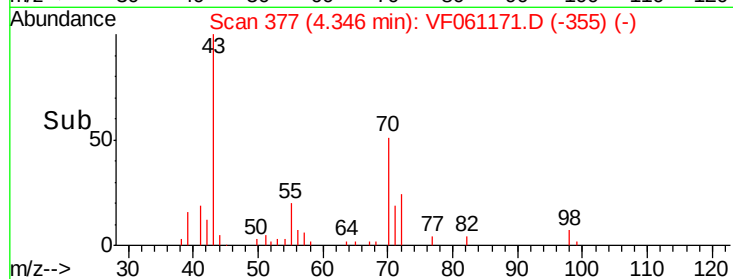
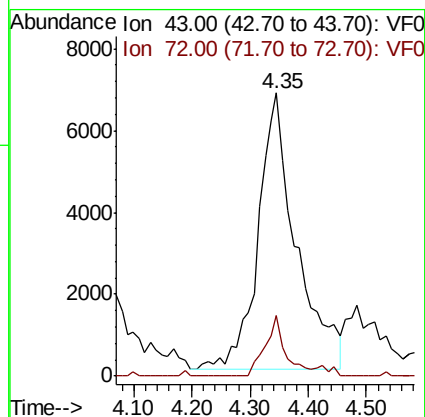
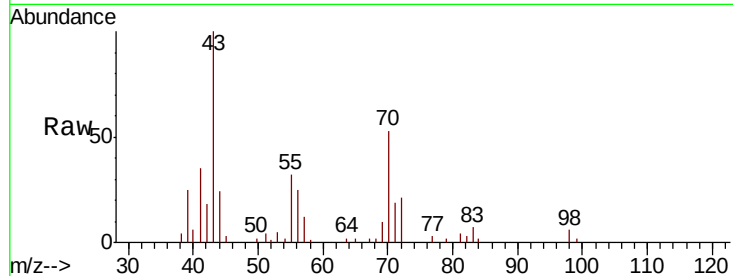
72 21.4 15.6 23.4

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#27

cis-1,2-Dichloroethene

Concen: 86.895 ug/l

RT: 3.48 min Scan# 289

Delta R.T. 0.01 min

Lab File: VF061171.D

Acq: 24 Dec 2018 18:05

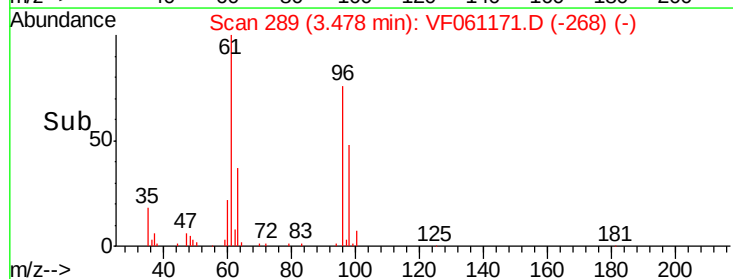
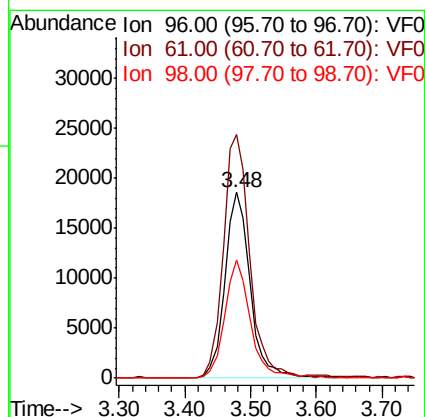
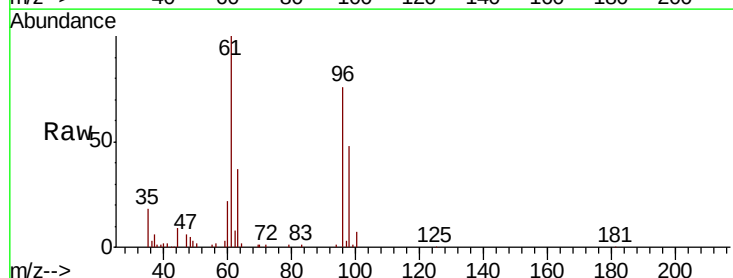
Tgt Ion: 96 Resp: 50299

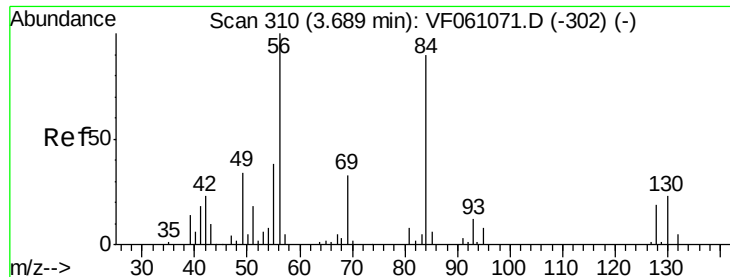
Ion Ratio Lower Upper

96 100

61 131.2 0.0 287.8

98 63.5 0.0 134.2





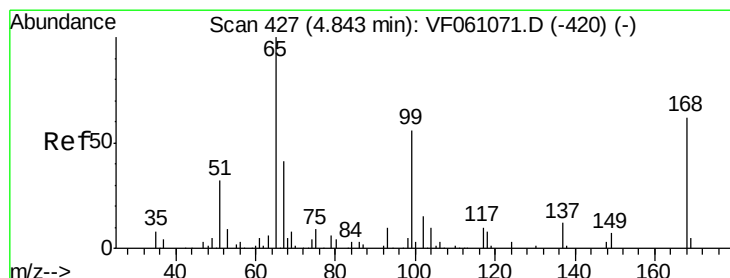
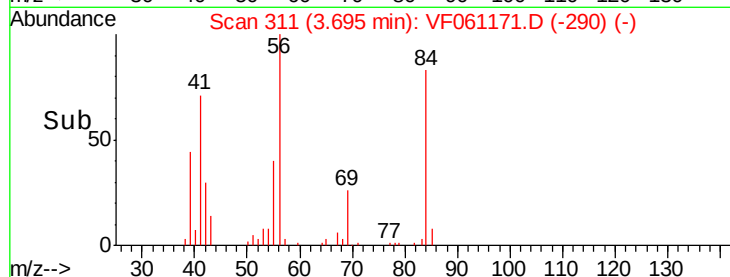
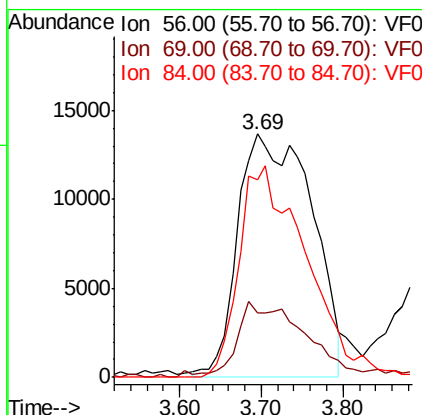
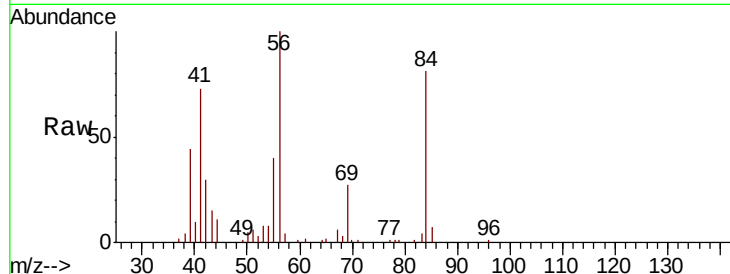
#31
Cyclohexane
Concen: 114.017 ug/l m
RT: 3.69 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF061171.D
Acq: 24 Dec 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
P001-SS013-1824-01RE

Tot Ion	Ratio	Lower	Upper
56	100		
69	26.5	26.0	39.0
84	81.3	71.4	107.2

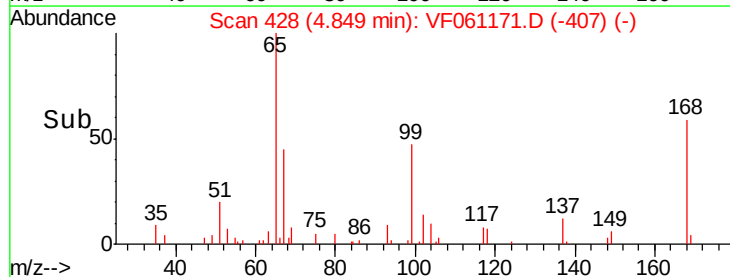
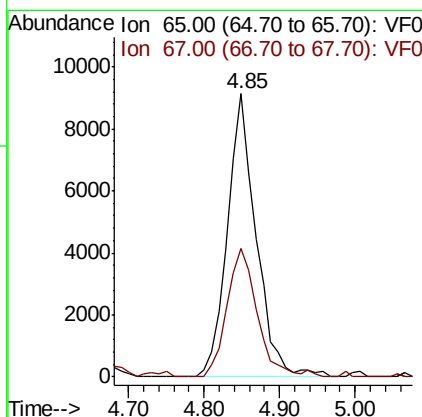
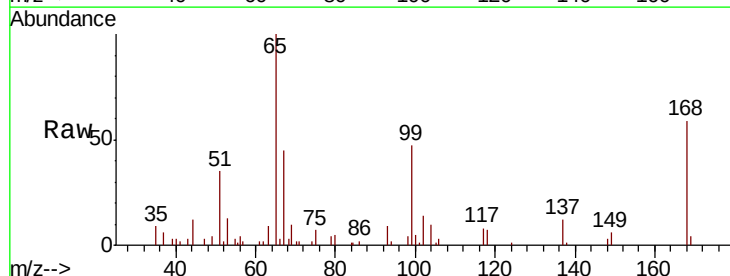
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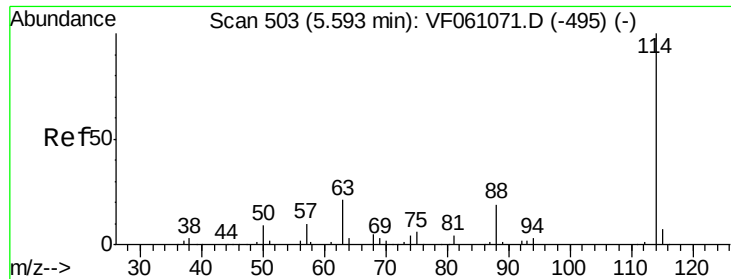
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#33
1,2-Dichloroethane-d4
Concen: 46.413 ug/l
RT: 4.85 min Scan# 428
Delta R.T. 0.01 min
Lab File: VF061171.D
Acq: 24 Dec 2018 18:05

Tgt Ion	Ratio	Lower	Upper
65	100		
67	45.4	0.0	94.6





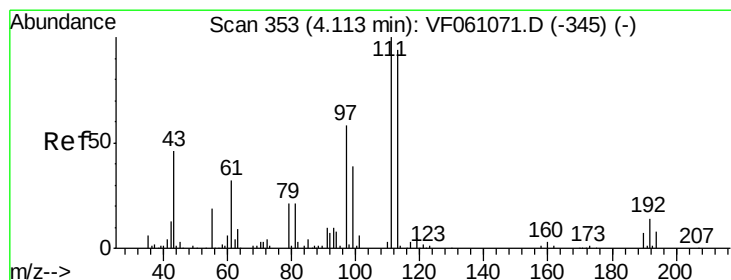
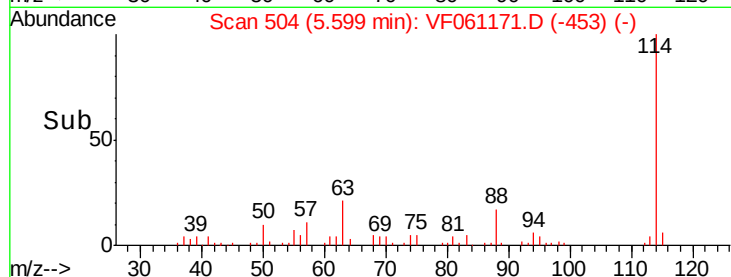
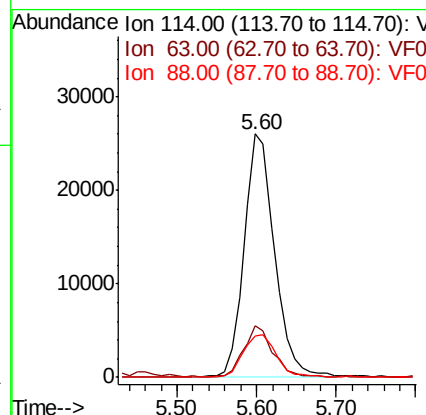
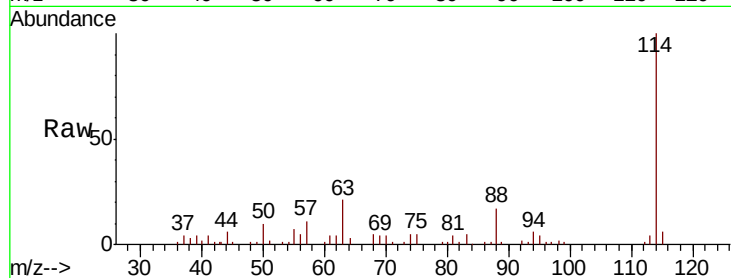
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.01 min
 Lab File: VF061171.D
 Acq: 24 Dec 2018 18:05

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS013-1824-01RE

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	21.4	0.0	41.6
88	16.8	0.0	38.0

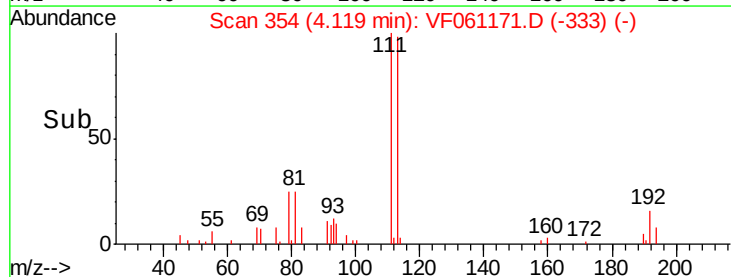
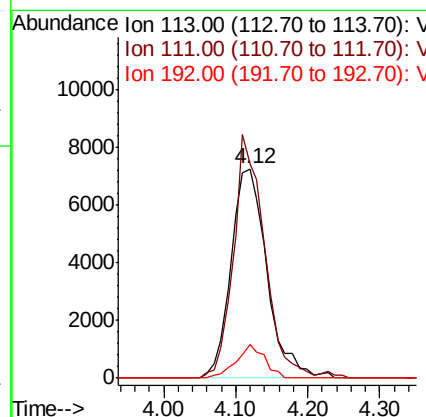
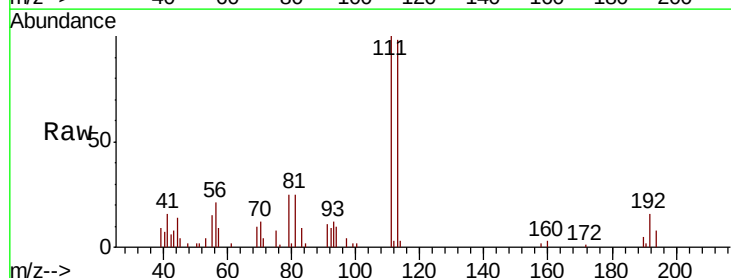
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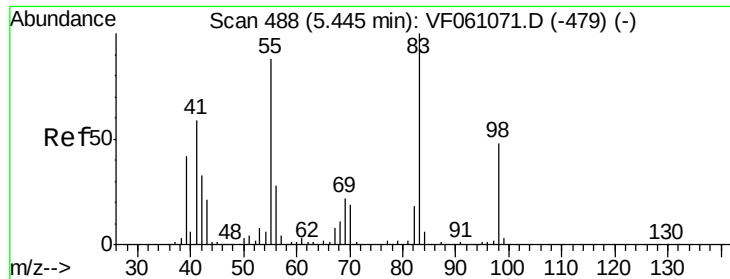
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#35
 Dibromofluoromethane
 Concen: 46.061 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF061171.D
 Acq: 24 Dec 2018 18:05

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	102.3	85.2	127.8
192	16.2	12.8	19.2





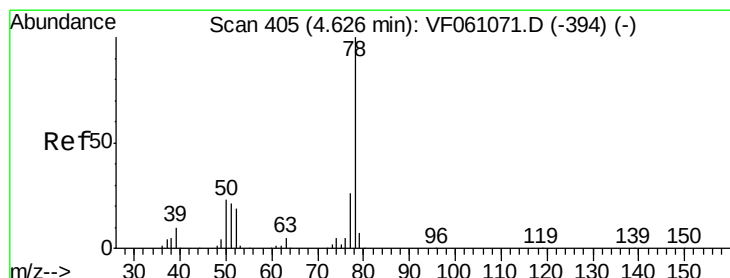
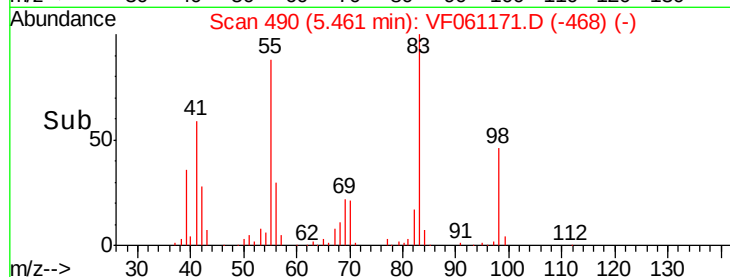
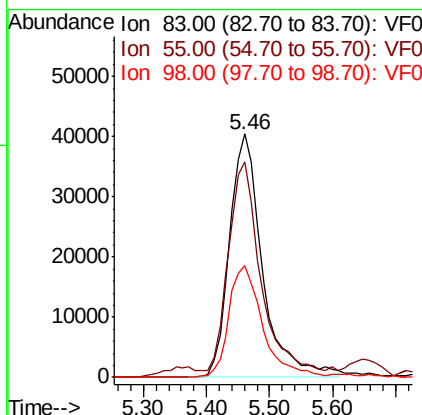
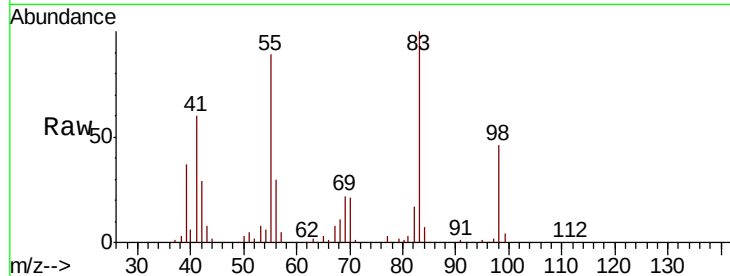
#39
Methvlcvclohexane
Concen: 196.939 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.02 min
Lab File: VF061171.D
Acq: 24 Dec 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
P001-SS013-1824-01RE

Tot Ion	Ratio	Lower	Upper
83	100		
55	88.7	70.6	105.8
98	46.1	38.5	57.7

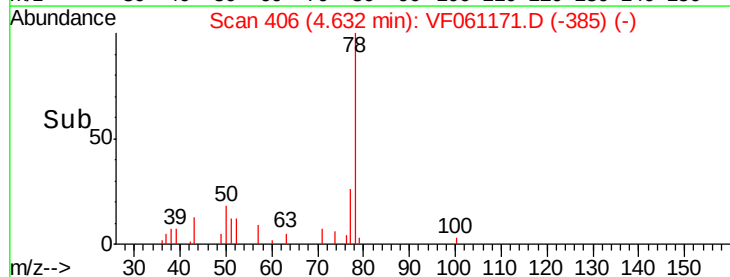
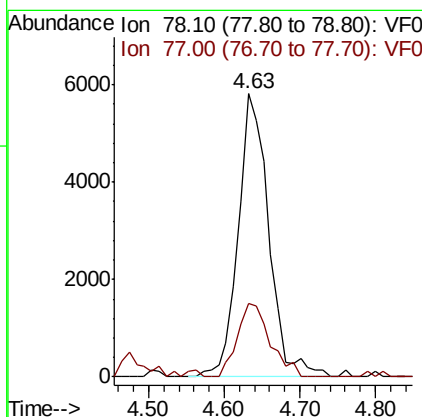
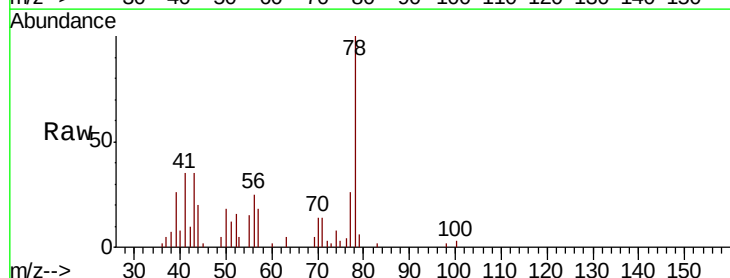
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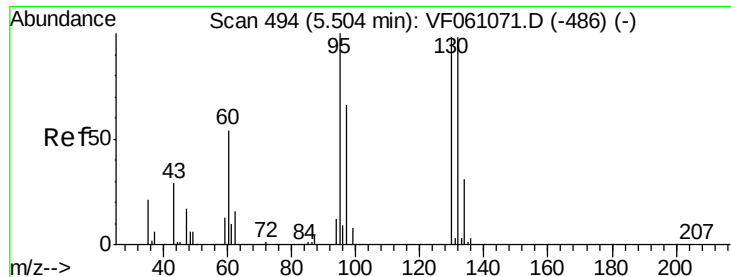
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#40
Benzene
Concen: 9.149 ug/l
RT: 4.63 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061171.D
Acq: 24 Dec 2018 18:05

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.8	20.7	31.1





#44

Trichloroethene

Concen: 16.827 ug/l

RT: 5.51 min Scan# 495

Delta R.T. 0.01 min

Lab File: VF061171.D

Acq: 24 Dec 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

P001-SS013-1824-01RE

Tot Ion:130 Resp: 9457

Ion Ratio Lower Upper

130 100

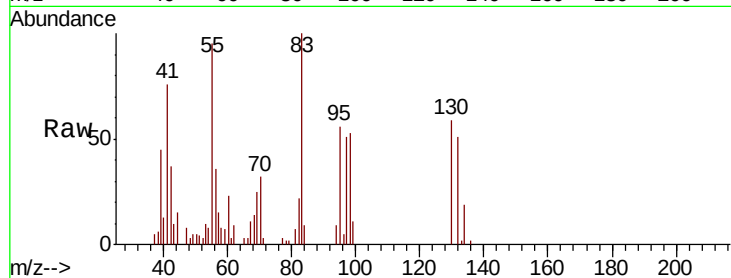
95 96.0 0.0 205.2

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

4000

3000

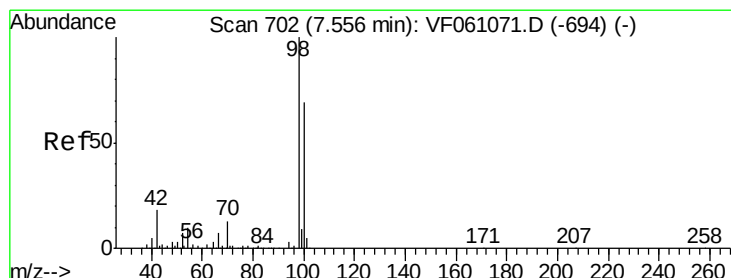
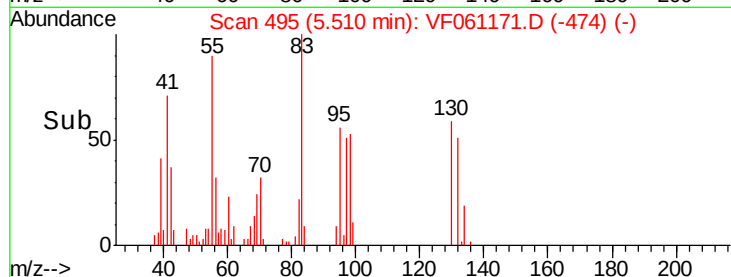
2000

1000

0

5.40 5.50 5.60

Time-->



#50

Toluene-d8

Concen: 37.681 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF061171.D

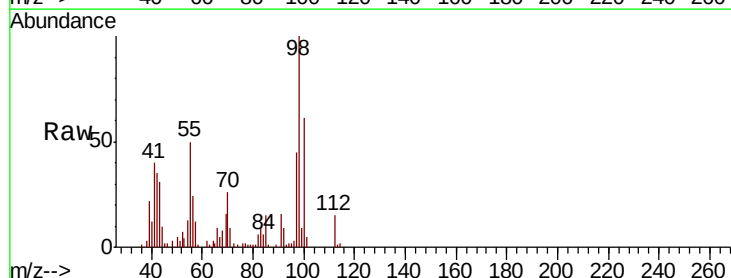
Acq: 24 Dec 2018 18:05

Tgt Ion: 98 Resp: 58744

Ion Ratio Lower Upper

98 100

100 61.1 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

15000

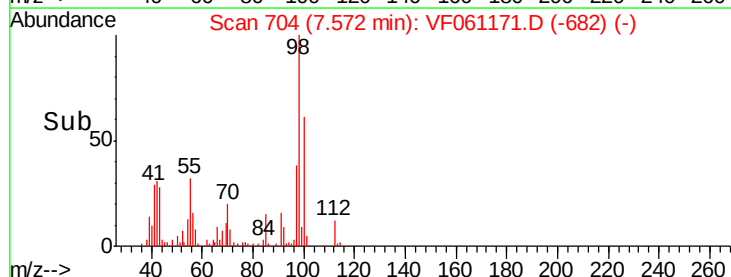
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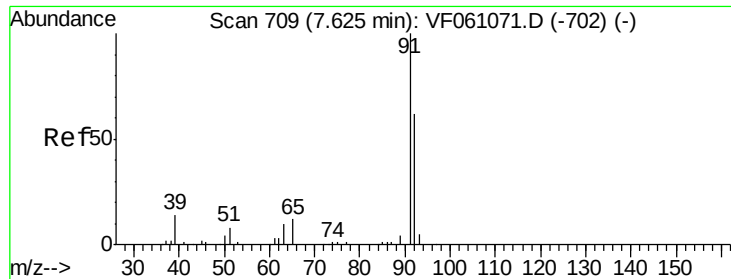
5000

0

7.50 7.60 7.70

Time-->





#52

Toluene

Concen: 9920.508 ug/l

RT: 7.69 min Scan# 716

Delta R.T. 0.06 min

Lab File: VF061171.D

Acq: 24 Dec 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

P001-SS013-1824-01RE

Tot Ion: 92 Resp: 11706395

Ion Ratio Lower Upper

92 100

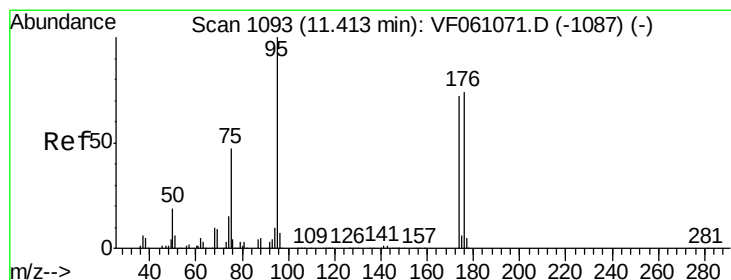
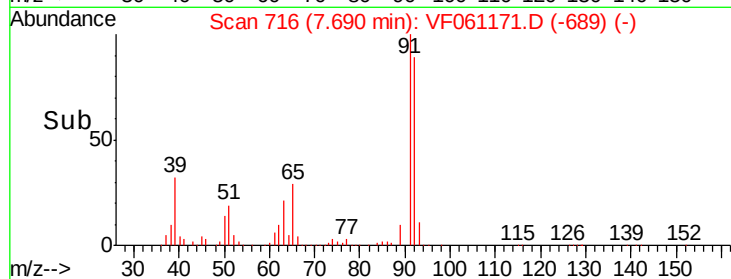
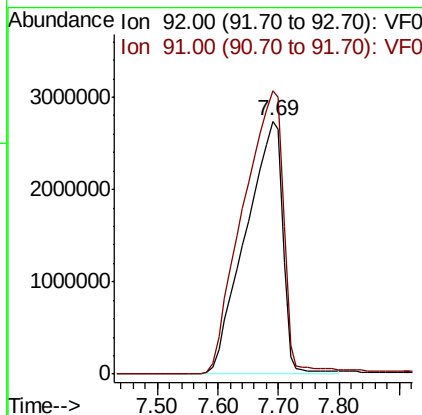
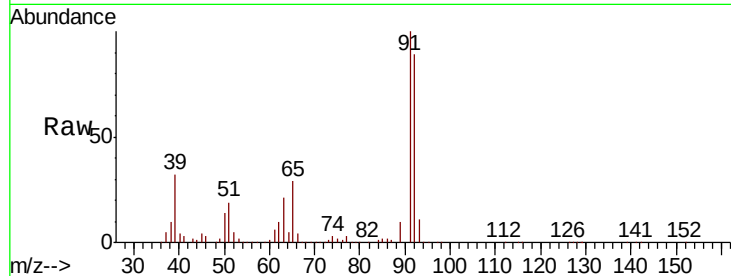
91 112.0 128.8 193.2#

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#62

4-Bromofluorobenzene

Concen: 31.118 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061171.D

Acq: 24 Dec 2018 18:05

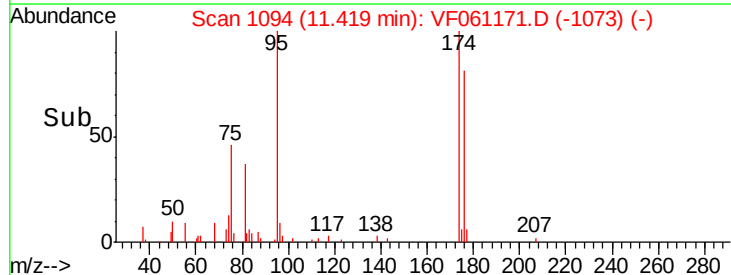
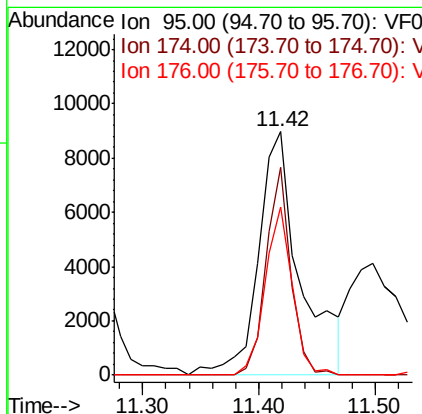
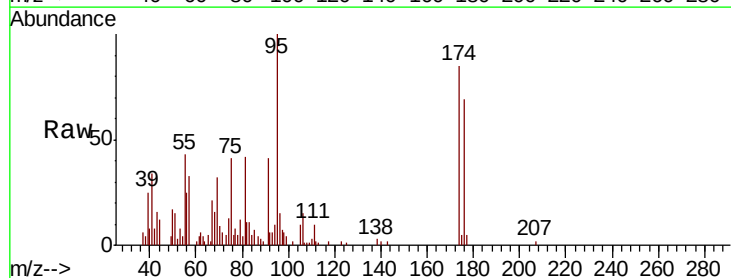
Tgt Ion: 95 Resp: 22365

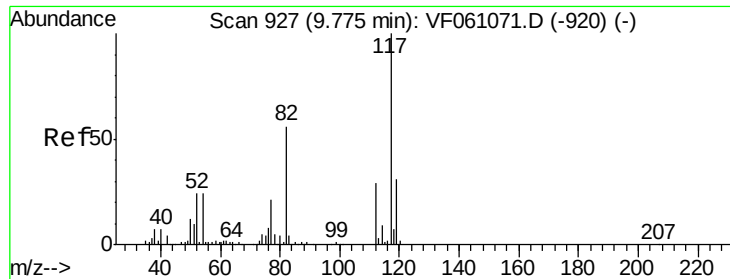
Ion Ratio Lower Upper

95 100

174 85.2 0.0 143.8

176 68.8 0.0 147.6





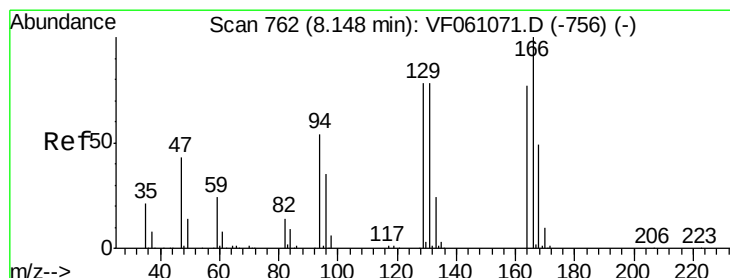
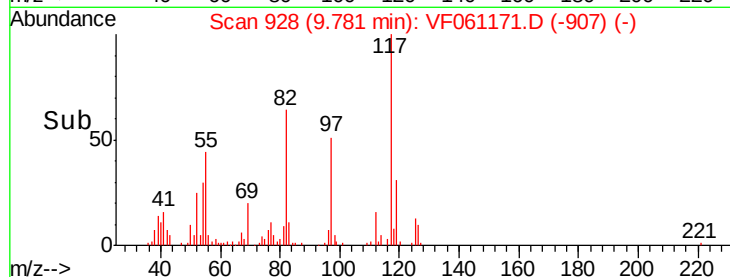
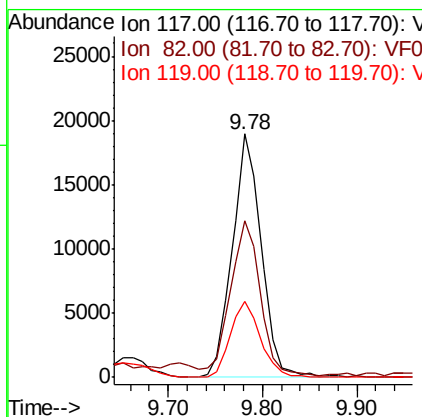
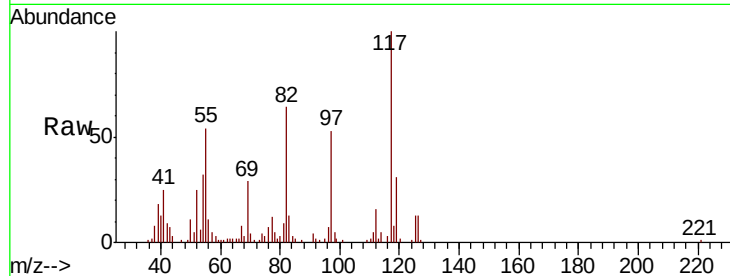
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF061171.D
Acq: 24 Dec 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
P001-SS013-1824-01RE

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.2	45.0	67.4
119	31.1	24.8	37.2

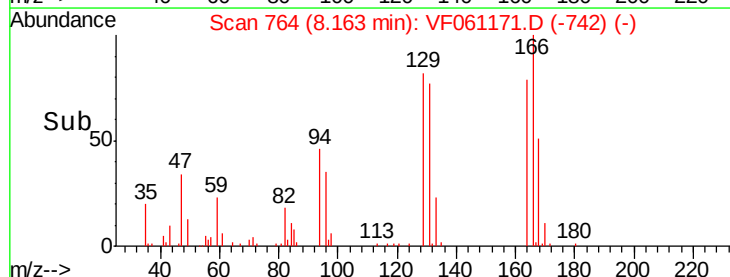
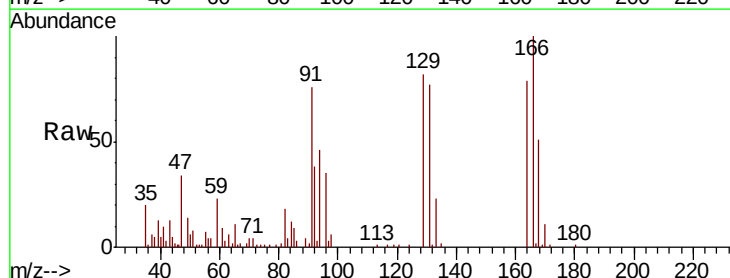
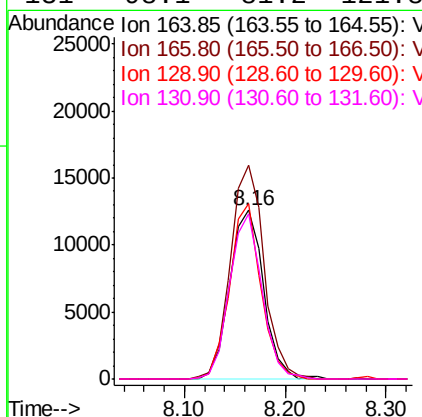
Manual Integrations
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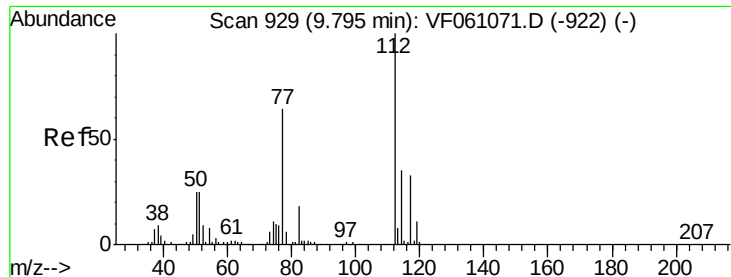
apatel
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#64
Tetrachloroethene
Concen: 94.883 ug/l
RT: 8.16 min Scan# 764
Delta R.T. 0.02 min
Lab File: VF061171.D
Acq: 24 Dec 2018 18:05

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	104.0	156.0
129	104.0	81.1	121.7
131	98.1	81.2	121.8





#65

Chlorobenzene

Concen: 29.408 ug/l

RT: 9.81 min Scan# 931

Delta R.T. 0.02 min

Lab File: VF061171.D

Acq: 24 Dec 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

P001-SS013-1824-01RE

Tot Ion:112 Resp: 24440

Ion Ratio Lower Upper

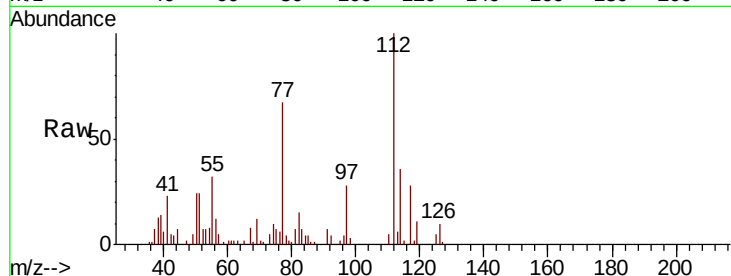
112 100

114 35.8 27.8 41.6

Manual Integrations
APPROVED

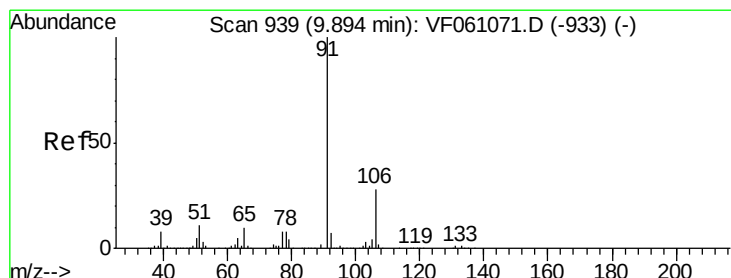
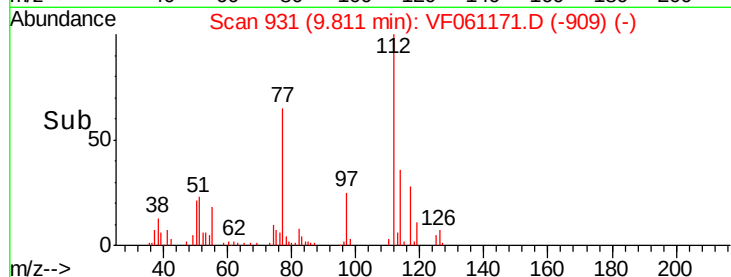
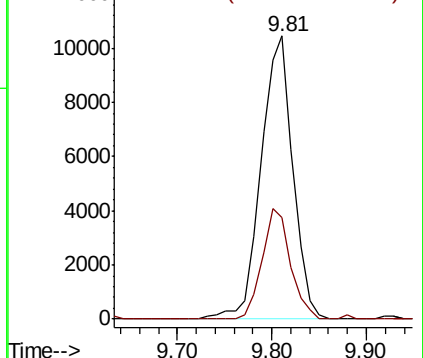
apatel

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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#67

Ethyl Benzene

Concen: 2249.596 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.02 min

Lab File: VF061171.D

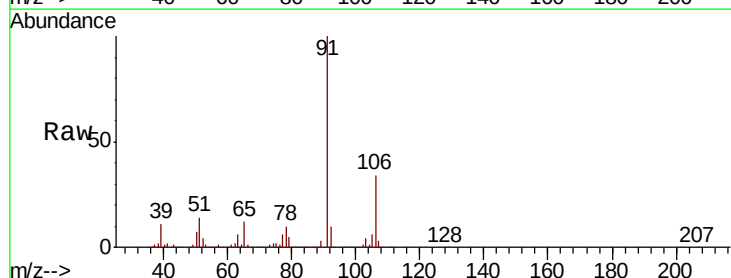
Acq: 24 Dec 2018 18:05

Tgt Ion: 91 Resp: 3405951

Ion Ratio Lower Upper

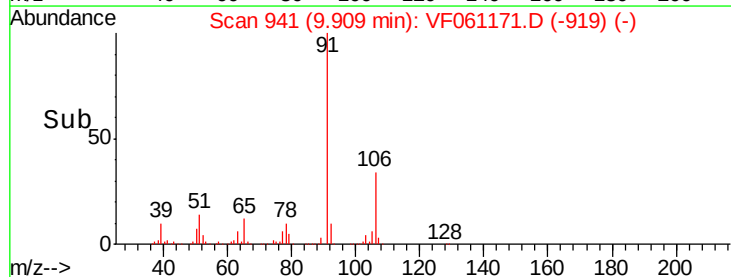
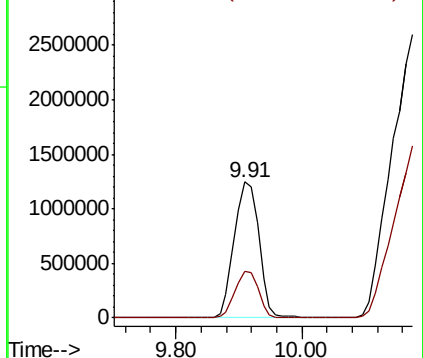
91 100

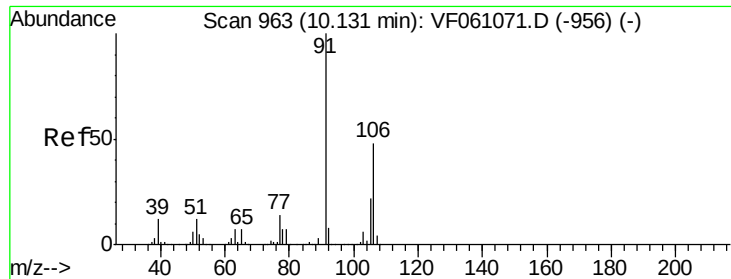
106 33.9 22.5 33.7#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 11461.580 ug/l

RT: 10.19 min Scan# 969

Delta R.T. 0.06 min

Lab File: VF061171.D

Acq: 24 Dec 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

P001-SS013-1824-01RE

Tot Ion:106 Resp: 6106976

Ion Ratio Lower Upper

106 100

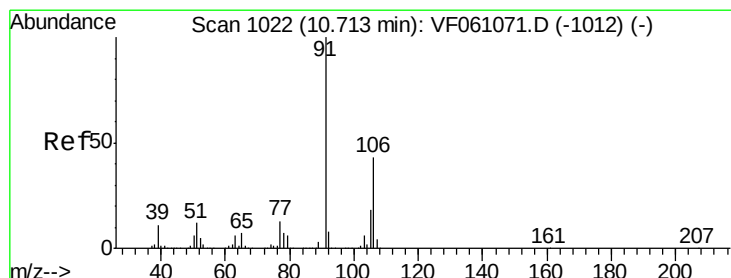
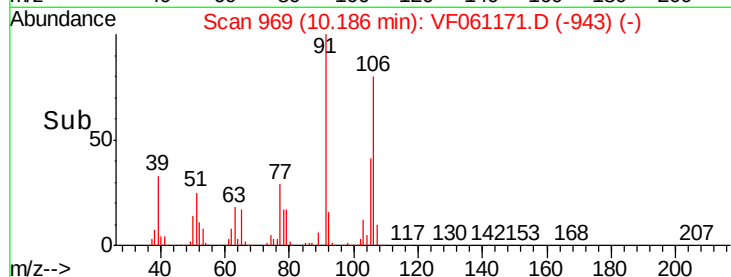
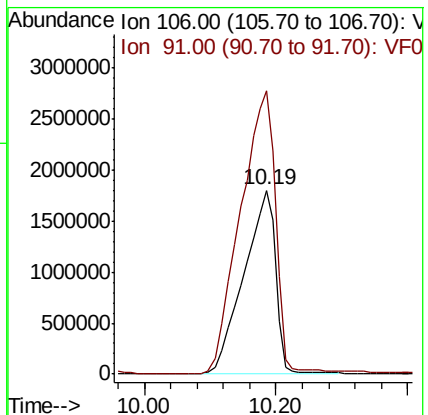
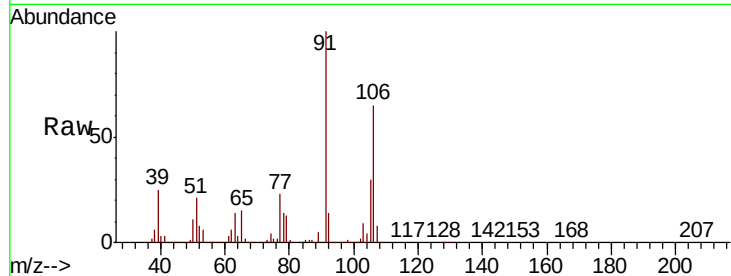
91 153.8 168.2 252.2#

Manual Integrations

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#69

o-Xylene

Concen: 4260.222 ug/l

RT: 10.74 min Scan# 1025

Delta R.T. 0.03 min

Lab File: VF061171.D

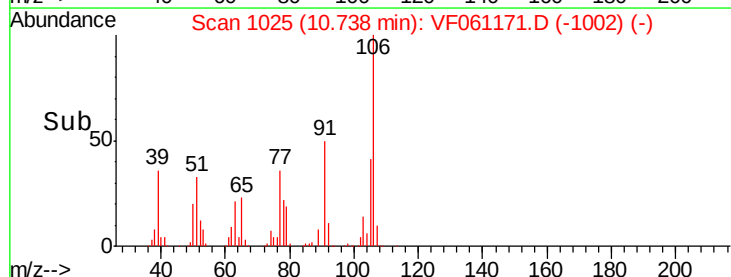
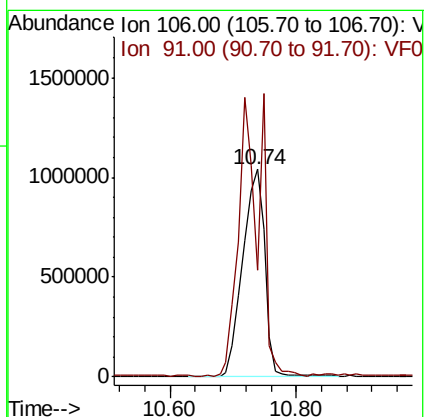
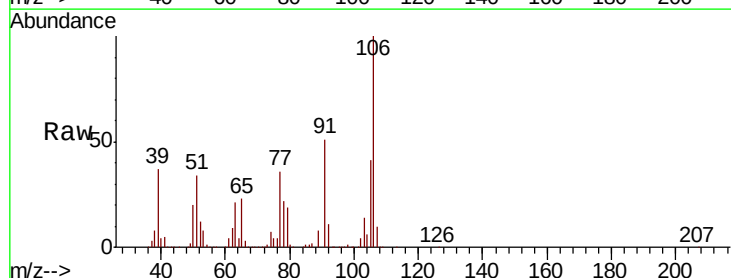
Acq: 24 Dec 2018 18:05

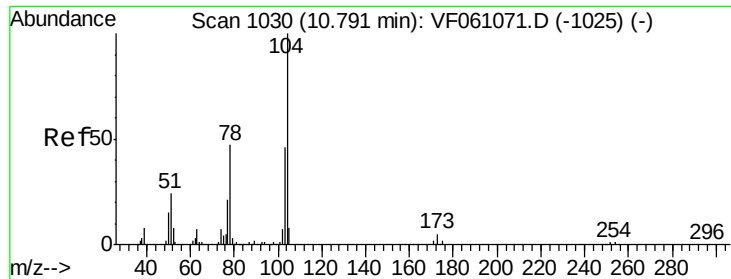
Tgt Ion:106 Resp: 2517525

Ion Ratio Lower Upper

106 100

91 51.2 115.9 347.7#





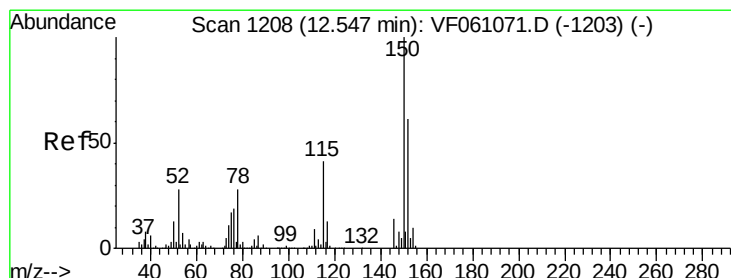
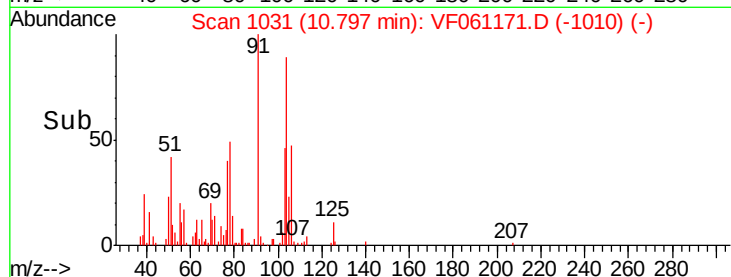
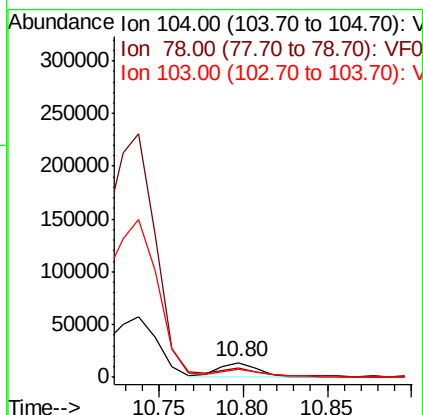
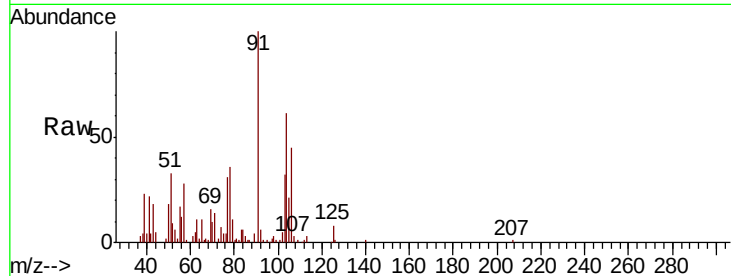
#70
Stvrene
Concen: 29.767 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VF061171.D
Acq: 24 Dec 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
P001-SS013-1824-01RE

Tot Ion	Ratio	Lower	Upper
104	100		
78	60.1	38.4	57.6#
103	53.2	37.0	55.6

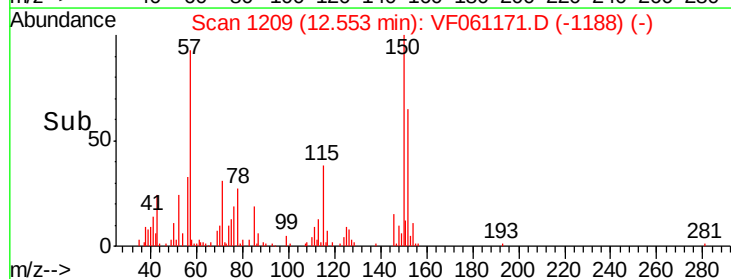
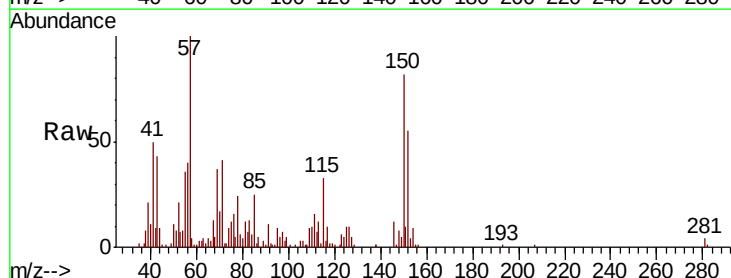
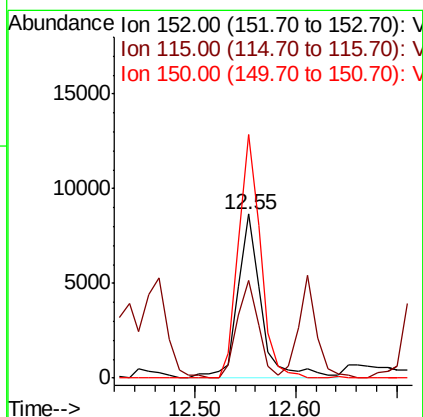
Manual Integrations
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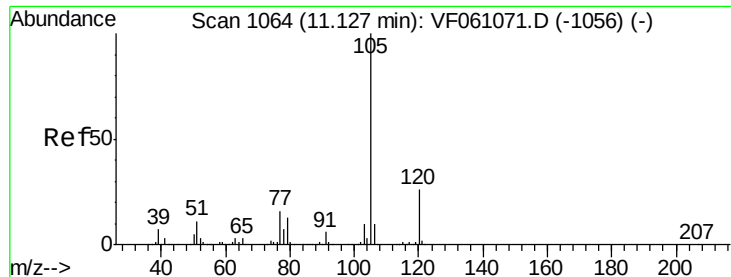
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061171.D
Acq: 24 Dec 2018 18:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.8	33.3	99.9
150	148.6	0.0	328.2





#73

Isopropylbenzene

Concen: 92.532 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.01 min

Lab File: VF061171.D

Acq: 24 Dec 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

P001-SS013-1824-01RE

Tot Ion:105 Resp: 112274

Ion Ratio Lower Upper

105 100

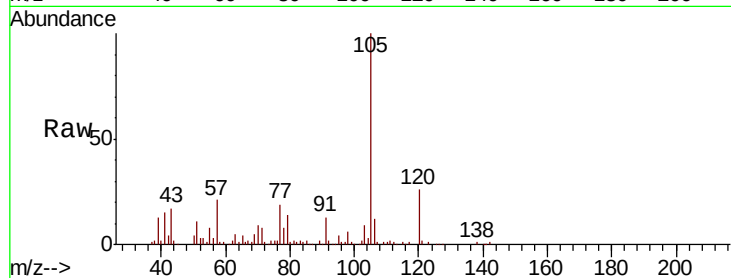
120 26.2 13.0 39.0

Manual Integrations

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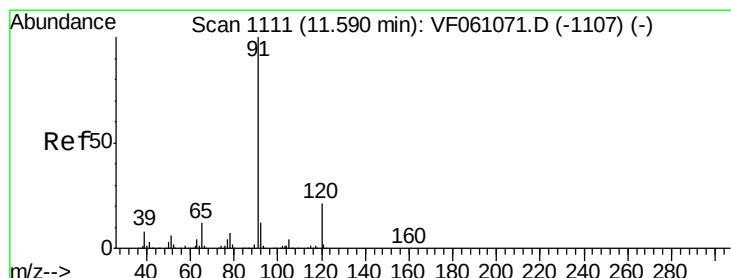
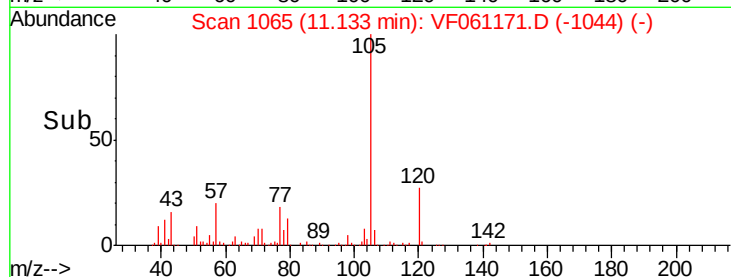
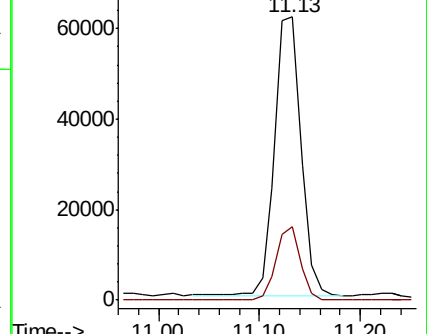
apatel

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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: 97.305 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061171.D

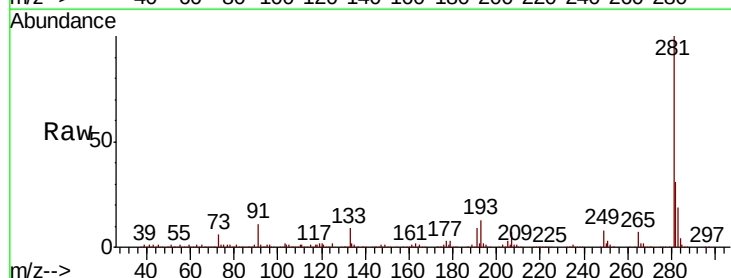
Acq: 24 Dec 2018 18:05

Tgt Ion: 91 Resp: 109414

Ion Ratio Lower Upper

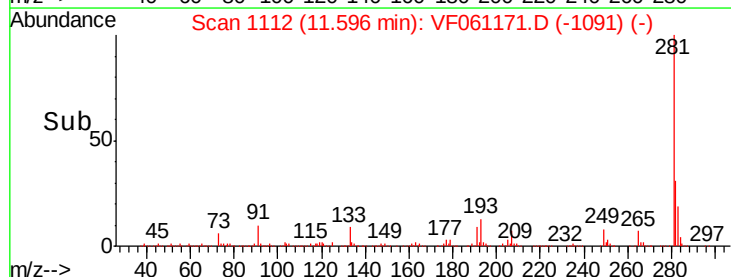
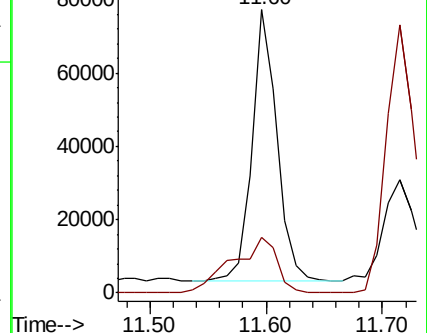
91 100

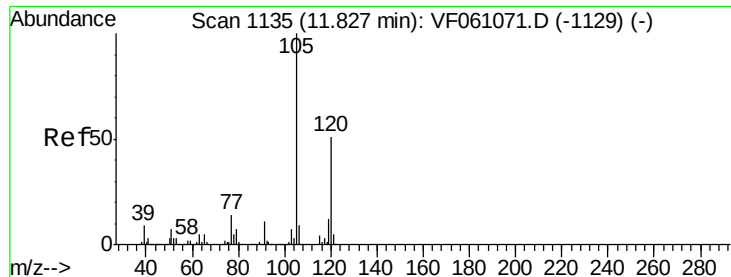
120 19.5 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





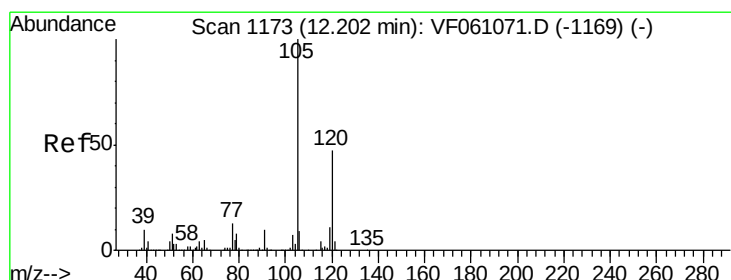
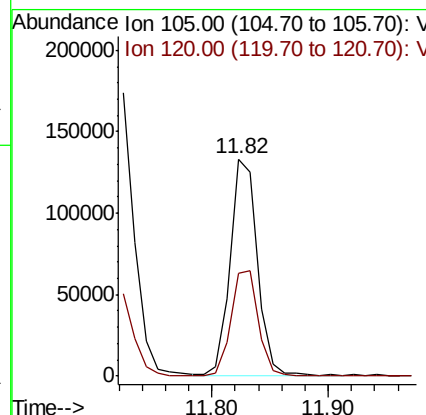
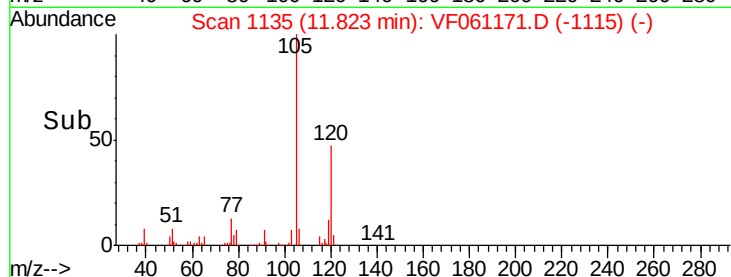
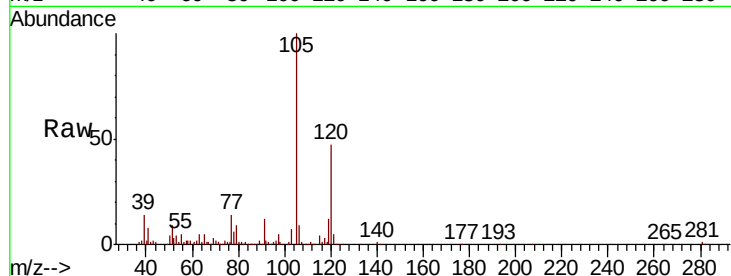
#80
 1,3,5-Trimethylbenzene
 Concen: 213.892 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.00 min
 Lab File: VF061171.D
 Acq: 24 Dec 2018 18:05

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS013-1824-01RE

Tot Ion	Ratio	Lower	Upper
105	100		
120	47.4	25.4	76.4

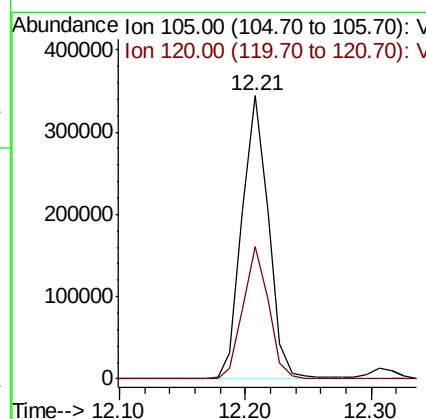
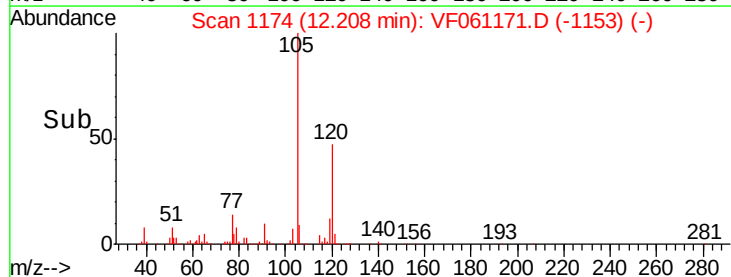
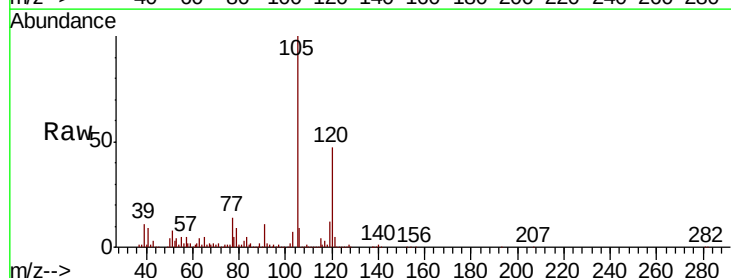
Manual Integrations
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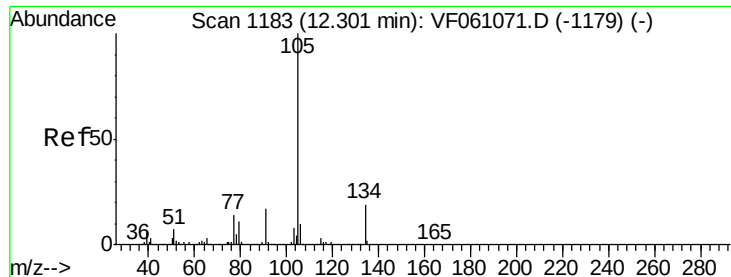
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#84
 1,2,4-Trimethylbenzene
 Concen: 497.929 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.01 min
 Lab File: VF061171.D
 Acq: 24 Dec 2018 18:05

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.9	23.6	71.0





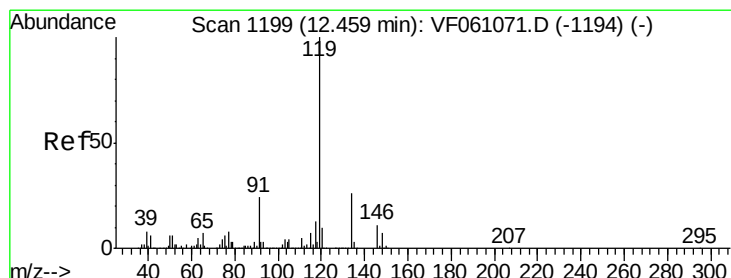
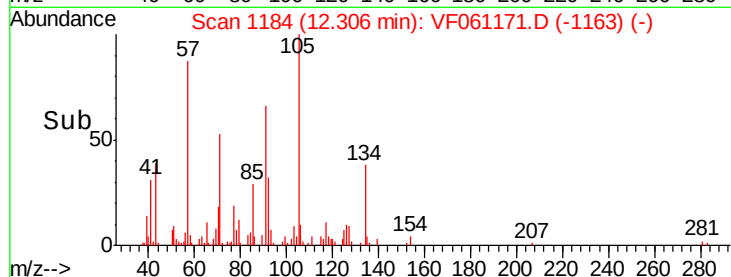
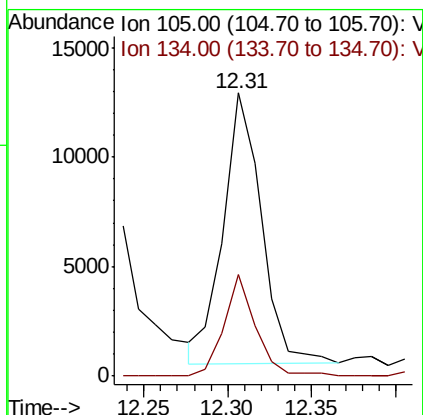
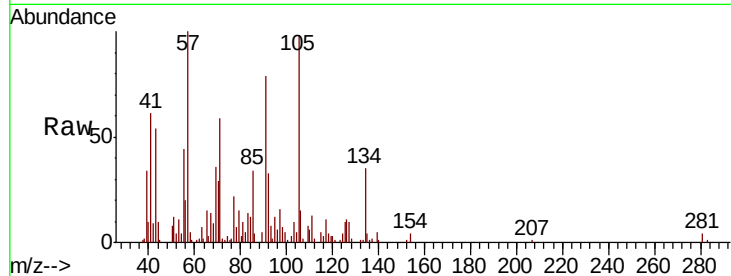
#85
 sec-Butylbenzene
 Concen: 14.424 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF061171.D
 Acq: 24 Dec 2018 18:05

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS013-1824-01RE

Tot Ion	Ratio	Lower	Upper
105	100		
134	36.0	9.4	28.2

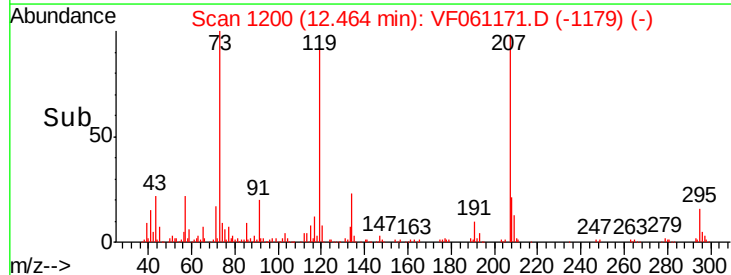
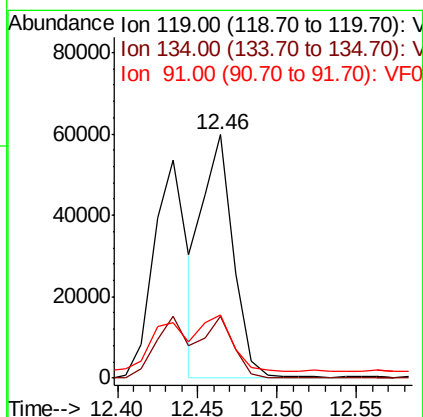
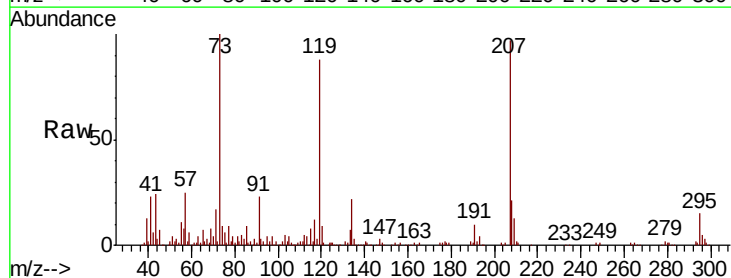
Manual Integrations
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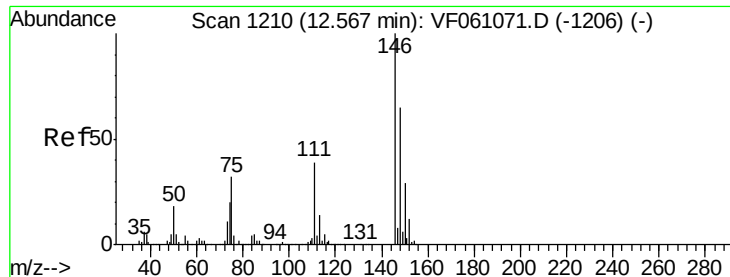
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#86
 p-Isopropyltoluene
 Concen: 73.094 ug/l m
 RT: 12.46 min Scan# 1200
 Delta R.T. 0.01 min
 Lab File: VF061171.D
 Acq: 24 Dec 2018 18:05

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.8	38.4
91	26.2	12.2	36.6





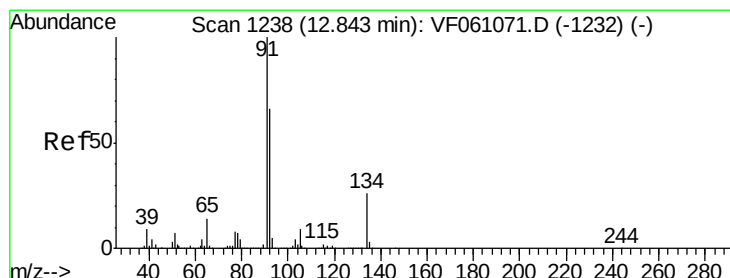
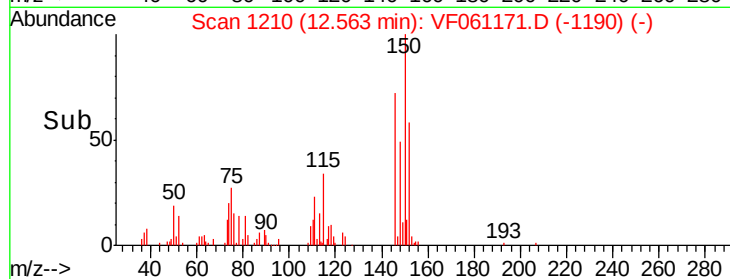
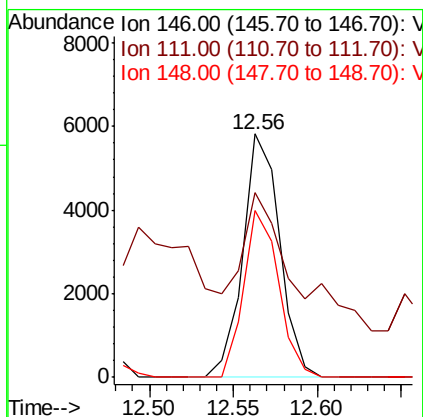
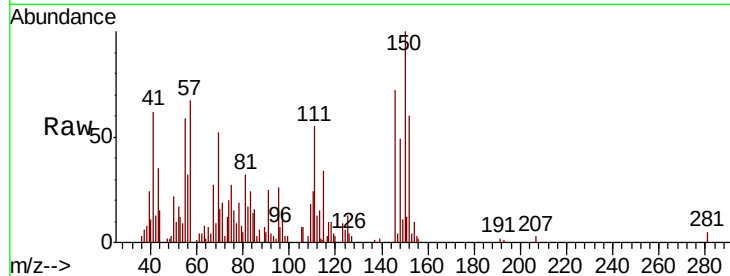
#88
 1,4-Dichlorobenzene
 Concen: 18.398 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VF061171.D
 Acq: 24 Dec 2018 18:05

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS013-1824-01RE

Tot Ion	Ratio	Lower	Upper
146	100		
111	76.1	19.4	58.4#
148	68.3	32.4	97.0

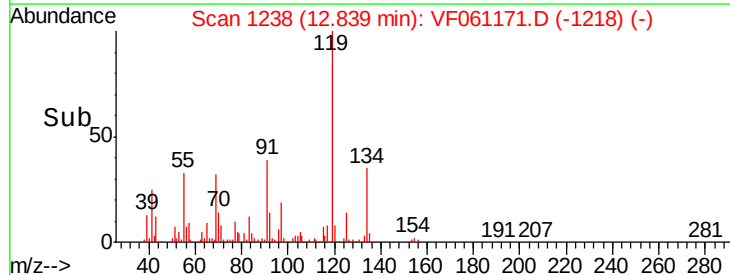
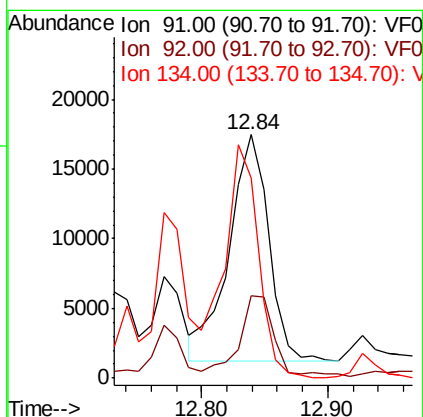
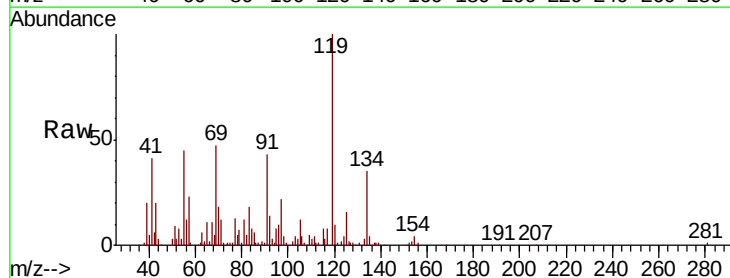
Manual Integrations
 APPROVED

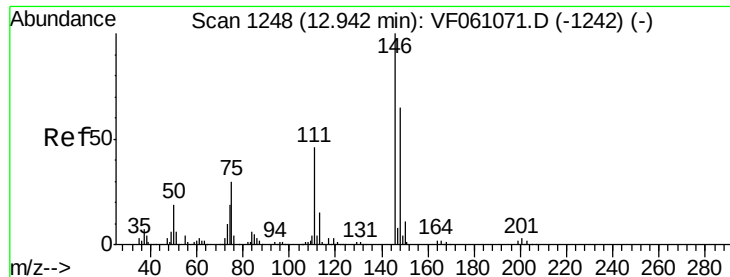
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#89
 n-Butylbenzene
 Concen: 28.752 ug/l
 RT: 12.84 min Scan# 1238
 Delta R.T. -0.00 min
 Lab File: VF061171.D
 Acq: 24 Dec 2018 18:05

Tgt Ion	Ratio	Lower	Upper
91	100		
92	33.7	32.8	98.4
134	81.9	13.2	39.5#





#91

1,2-Dichlorobenzene

Concen: 14.477 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VF061171.D

Acq: 24 Dec 2018 18:05

Instrument :

MSVOA_F

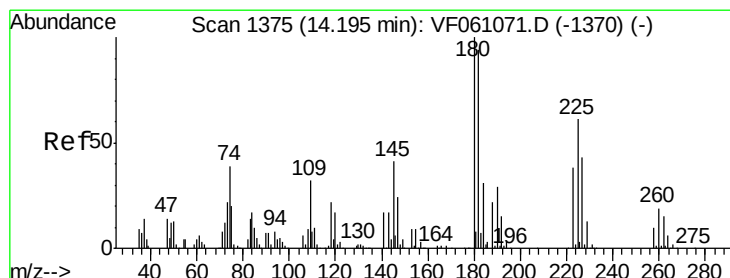
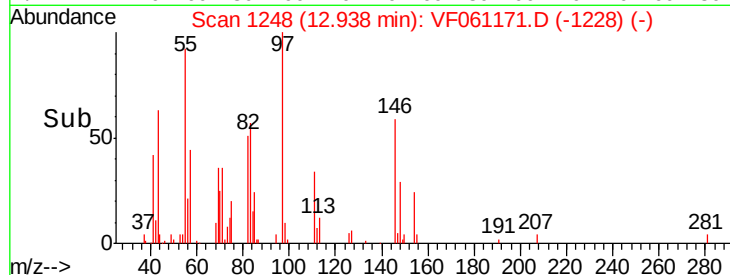
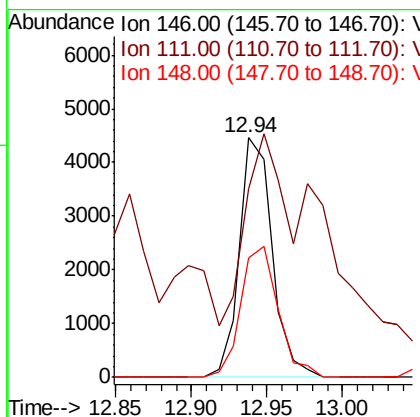
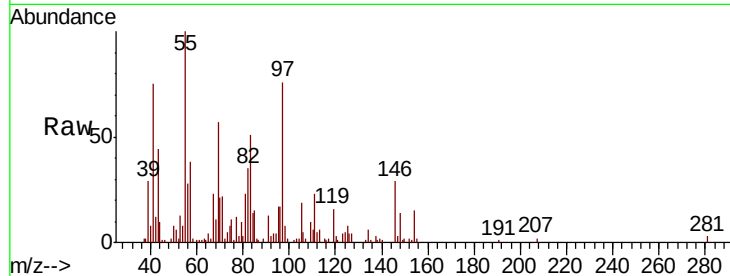
ClientSampleId :

P001-SS013-1824-01RE

Tot Ion:	146	Resp:	6760
Ion Ratio	Lower	Upper	
146	100		
111	78.9	23.2	69.5#
148	49.7	32.4	97.0

Manual Integrations
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#93

1,2,4-Trichlorobenzene

Concen: 179.799 ug/l

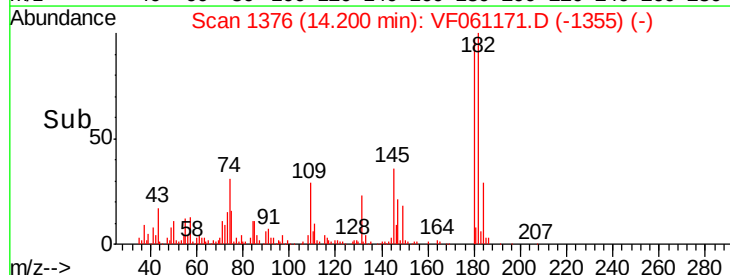
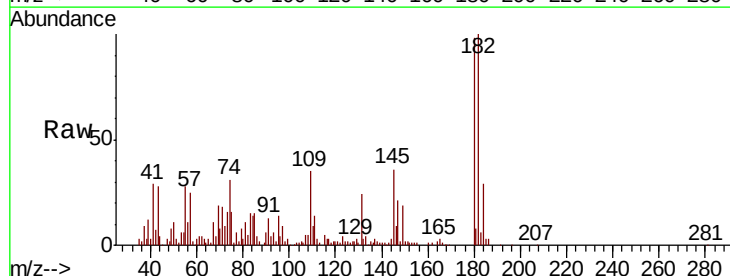
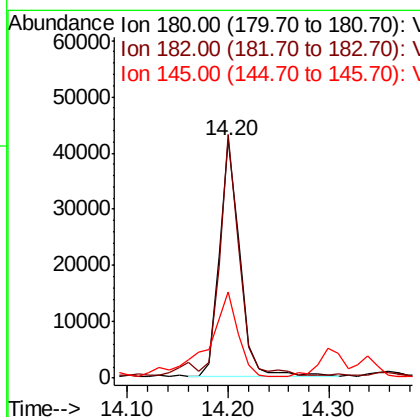
RT: 14.20 min Scan# 1376

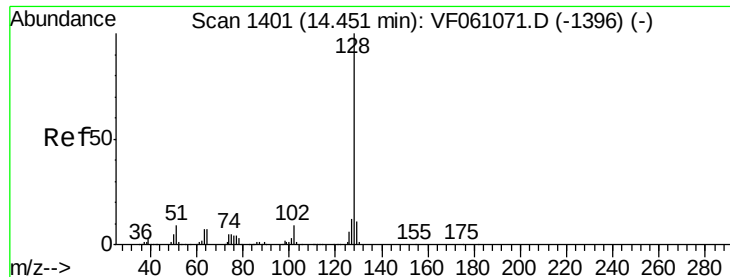
Delta R.T. 0.01 min

Lab File: VF061171.D

Acq: 24 Dec 2018 18:05

Tgt Ion:	180	Resp:	59541
Ion Ratio	Lower	Upper	
180	100		
182	102.3	46.9	140.6
145	36.5	20.5	61.6





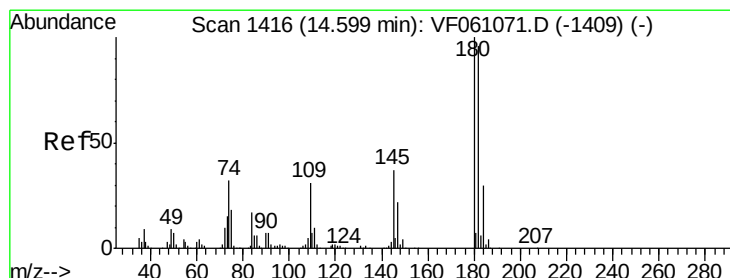
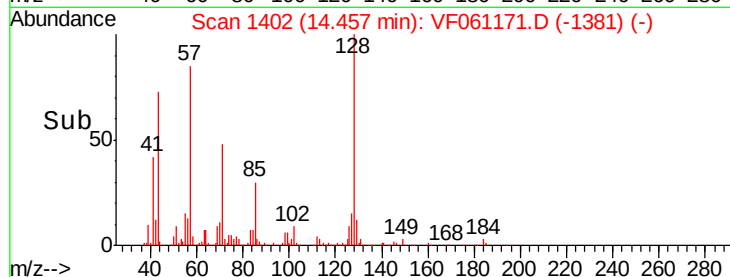
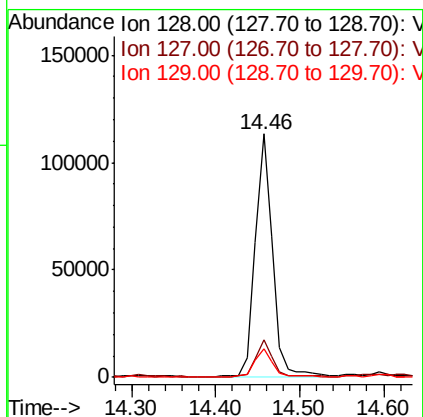
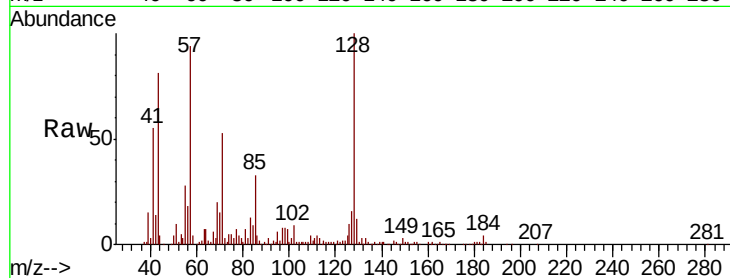
#95
Naphthalene
Concen: 272.779 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061171.D
Acq: 24 Dec 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
P001-SS013-1824-01RE

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.6	9.4	14.2#
129	11.7	8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 60.803 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF061171.D
Acq: 24 Dec 2018 18:05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	47.9	143.8
145	42.0	18.6	55.8

