

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121918\
 Data File : VF061069.D
 Acq On : 18 Dec 2018 18:53
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00G/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

apatel
 12/20/2018 10:28:41 AM

Quant Time: Dec 20 00:48:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 04:15:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	195207	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	335325	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	309077	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	162602	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	26272	11.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.90%	
35) Dibromofluoromethane	4.11	113	30711	11.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	23.52%	
50) Toluene-d8	7.56	98	83983	10.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	21.78%	
62) 4-Bromofluorobenzene	11.41	95	39080	11.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	46604	14.707	ug/l	100
3) Chloromethane	1.11	50	27285	13.435	ug/l #	84
4) Vinyl Chloride	1.14	62	23287	12.389	ug/l #	81
5) Bromomethane	1.33	94	16916	12.944	ug/l #	73
6) Chloroethane	1.40	64	11869	14.649	ug/l #	84
7) Trichlorofluoromethane	1.48	101	48479m	12.440	ug/l	
8) Diethyl Ether	1.63	74	6287	11.271	ug/l	57
9) 1,1,2-Trichlorotrifluoroet	1.84	101	25773	13.098	ug/l	95
10) Methyl Iodide	1.92	142	39601m	13.137	ug/l	
11) Tert butyl alcohol	2.58	59	4914	51.639	ug/l #	76
12) 1,1-Dichloroethene	1.80	96	19117	12.090	ug/l	90
13) Acrolein	2.00	56	4421m	53.508	ug/l	
14) Allyl chloride	2.09	41	18955	10.279	ug/l	94
15) Acrylonitrile	2.94	53	11089	50.914	ug/l #	93
16) Acetone	2.24	43	26053	59.183	ug/l	98
17) Carbon Disulfide	1.84	76	58655m	13.527	ug/l	
18) Methyl Acetate	2.35	43	12305	15.095	ug/l	95
19) Methyl tert-butyl Ether	2.43	73	41434	11.735	ug/l	95
20) Methylene Chloride	2.25	84	22227m	14.741	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	20699m	13.574	ug/l	
22) Diisopropyl ether	2.80	45	65203	12.208	ug/l #	98
23) Vinyl Acetate	3.19	43	148944	60.759	ug/l	100
24) 1,1-Dichloroethane	2.87	63	36444	11.485	ug/l	98
25) 2-Butanone	4.34	43	46371	62.272	ug/l	100
26) 2,2-Dichloropropane	3.59	77	22573	11.247	ug/l	84
27) cis-1,2-Dichloroethene	3.47	96	31734	12.840	ug/l	94
28) Bromochloromethane	3.72	49	19749	12.678	ug/l	100
29) Tetrahydrofuran	4.08	42	19337	61.575	ug/l	98
30) Chloroform	3.86	83	61237	12.499	ug/l	99
31) Cyclohexane	3.68	56	41470m	12.460	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	35982	11.095	ug/l	95
36) 1,1-Dichloropropene	4.27	75	41157	10.961	ug/l	98
37) Ethyl Acetate	4.11	43	17007	11.212	ug/l #	81
38) Carbon Tetrachloride	3.99	117	35131	11.050	ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	38342m	9.823	ug/l	
40) Benzene	4.63	78	97361	11.787	ug/l	97
41) Methacrylonitrile	4.74	41	9663	10.761	ug/l #	92
42) 1,2-Dichloroethane	4.94	62	36727	12.196	ug/l	98
43) Isopropyl Acetate	6.95	43	21493	10.564	ug/l	91
44) Trichloroethene	5.50	130	29934	11.111	ug/l	98
45) 1,2-Dichloropropane	6.23	63	27269	12.762	ug/l	90
46) Dibromomethane	6.09	93	15711	10.856	ug/l	95
47) Bromodichloromethane	6.39	83	40769	10.580	ug/l #	97
48) Methyl methacrylate	6.72	41	13418	9.867	ug/l	96
49) 1,4-Dioxane	6.71	88	1599	162.629	ug/l #	81
51) 4-Methyl-2-Pentanone	8.26	43	72469	52.448	ug/l	99
52) Toluene	7.63	92	63564	10.991	ug/l	100
53) t-1,3-Dichloropropene	8.28	75	34428	11.066	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	44916	11.699	ug/l	96
55) 1,1,2-Trichloroethane	8.49	97	18615	11.185	ug/l	94
56) Ethyl methacrylate	8.62	69	19848	10.815	ug/l	99
57) 1,3-Dichloropropane	8.85	76	33120	11.338	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.30	63	19144	88.107	ug/l	99
59) 2-Hexanone	9.49	43	50411	51.628	ug/l	96
60) Dibromochloromethane	8.71	129	25440	10.235	ug/l	98
61) 1,2-Dibromoethane	8.99	107	20230	11.183	ug/l	94
64) Tetrachloroethene	8.15	164	25652	10.828	ug/l	91
65) Chlorobenzene	9.80	112	70487	11.805	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	30046	11.747	ug/l	87
67) Ethyl Benzene	9.89	91	131221	11.773	ug/l	98
68) m/p-Xylenes	10.13	106	91131	22.654	ug/l	92
69) o-Xylene	10.71	106	52330	11.819	ug/l	97
70) Styrene	10.79	104	73686	12.091	ug/l	98
71) Bromoform	10.77	173	13080	10.640	ug/l #	99
73) Isopropylbenzene	11.13	105	148299	11.390	ug/l	98
74) N-amyl acetate	11.37	43	33402	11.225	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	26550	12.434	ug/l	93
76) 1,2,3-Trichloropropane	11.80	75	18678	11.944	ug/l	98
77) Bromobenzene	11.49	156	31266	11.101	ug/l	90
78) n-propylbenzene	11.59	91	188742	12.371	ug/l	99
79) 2-Chlorotoluene	11.72	91	106623	12.174	ug/l	97
80) 1,3,5-Trimethylbenzene	11.83	105	132163	12.513	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	7584m	10.081	ug/l	
82) 4-Chlorotoluene	11.90	91	112029	12.199	ug/l	97
83) tert-Butylbenzene	12.13	119	133003	12.310	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	126885	12.153	ug/l	99
85) sec-Butylbenzene	12.30	105	172213	11.759	ug/l	97
86) p-Isopropyltoluene	12.46	119	148524	12.057	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	64748	12.088	ug/l	96
88) 1,4-Dichlorobenzene	12.57	146	60109	11.508	ug/l	99
89) n-Butylbenzene	12.84	91	158050	12.749	ug/l	92
90) Hexachloroethane	12.91	117	33235	11.248	ug/l	92
91) 1,2-Dichlorobenzene	12.94	146	59874	11.751	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.64	75	4233	10.253	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	41846	11.744	ug/l	99
94) Hexachlorobutadiene	14.19	225	25971	10.948	ug/l	93
95) Naphthalene	14.45	128	70098	8.962	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	37412	11.159	ug/l	96

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

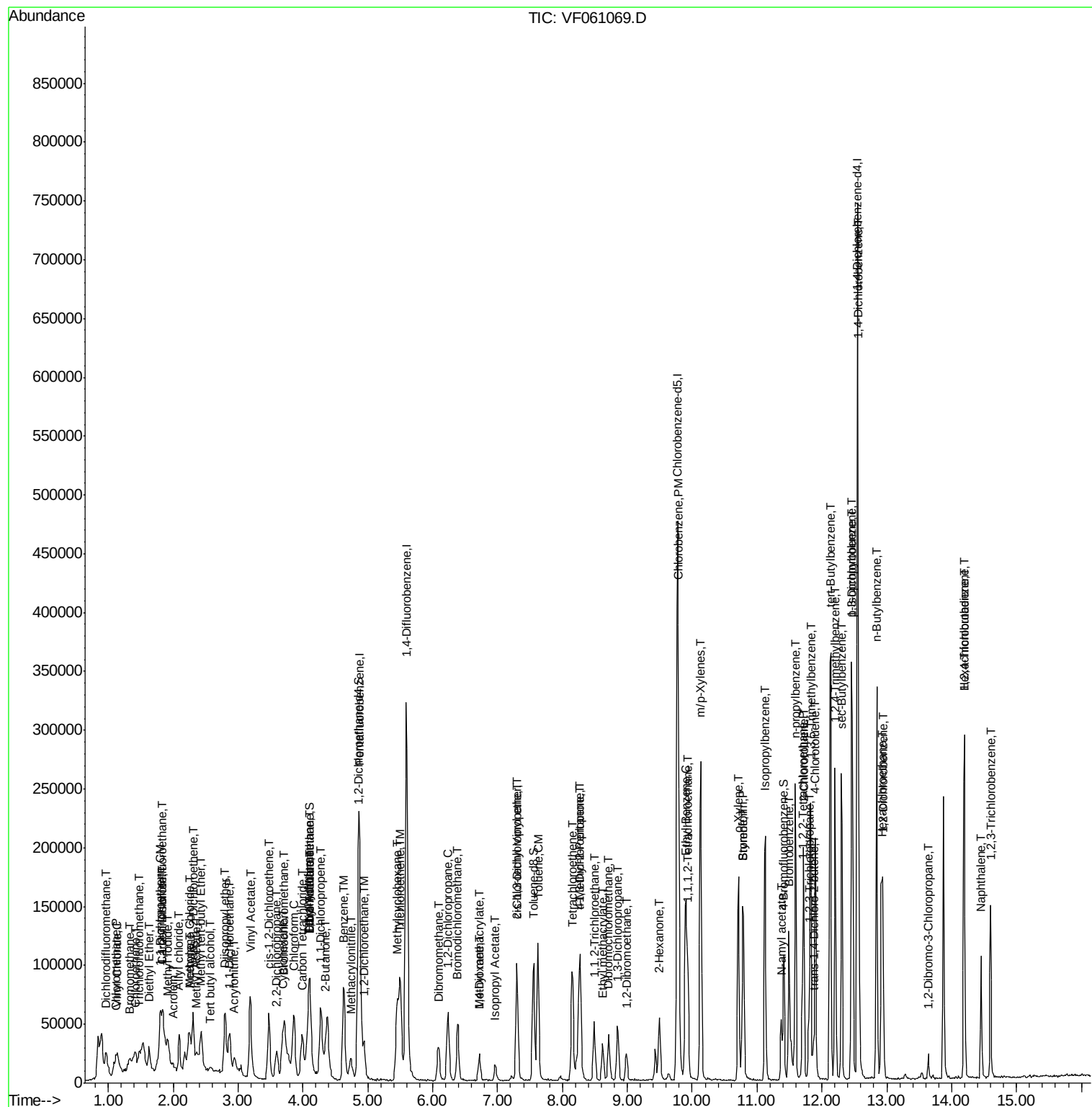
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Data File : VF061069.D
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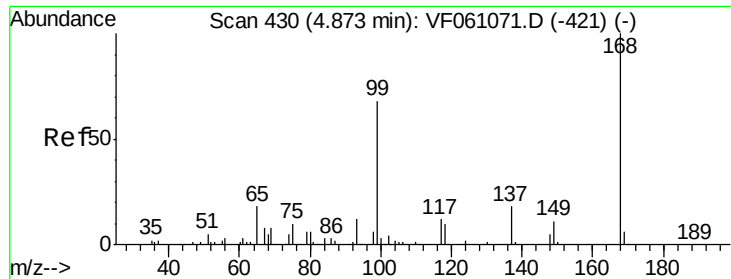
Instrument :
MSVOA_F
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 168 Resp: 195207

Ion Ratio Lower Upper

168 100

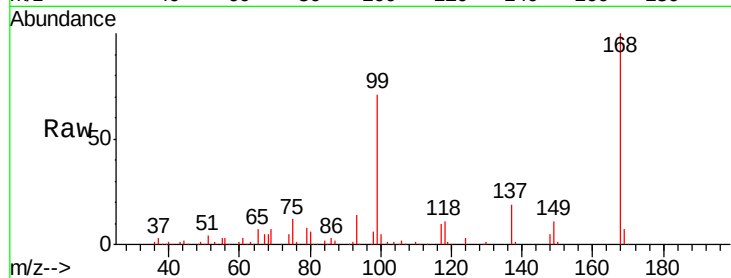
99 70.7 54.4 81.6

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

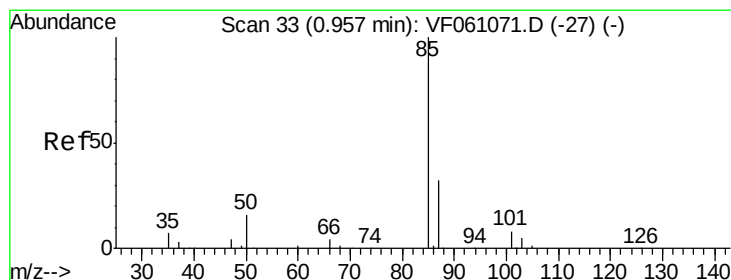
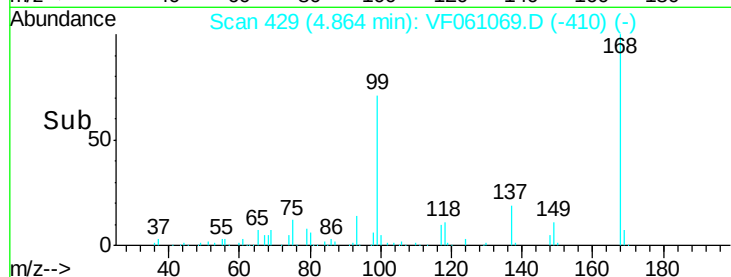
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 14.707 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061069.D

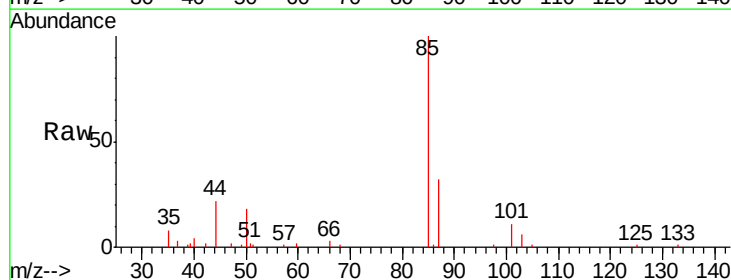
Acq: 18 Dec 2018 18:53

Tgt Ion: 85 Resp: 46604

Ion Ratio Lower Upper

85 100

87 31.6 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

12000

10000

8000

6000

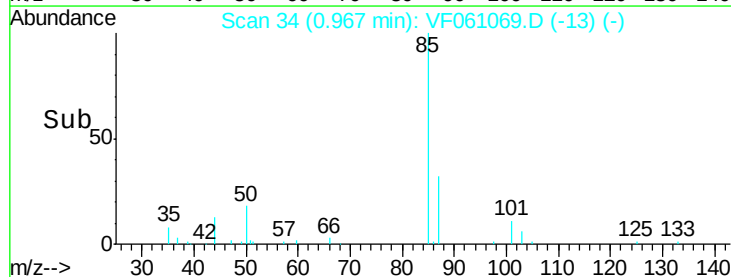
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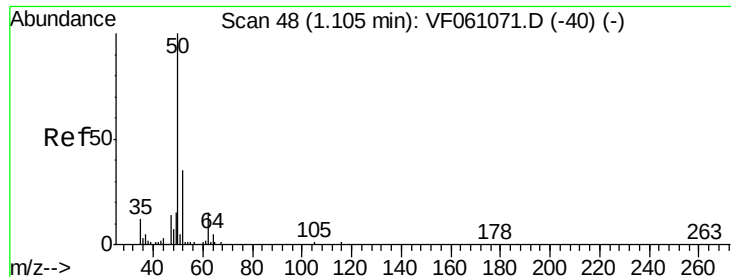
2000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 13.435 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 50 Resp: 27285

Ion Ratio Lower Upper

50 100

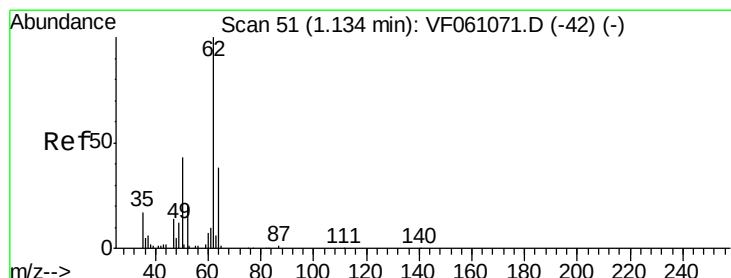
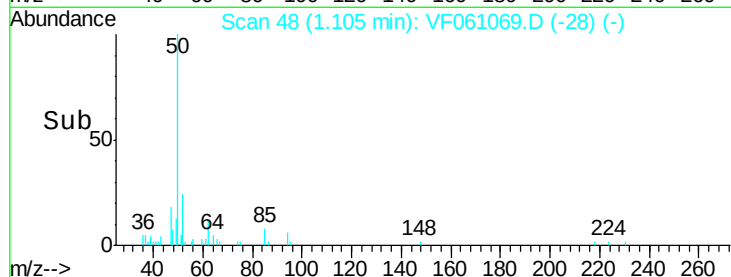
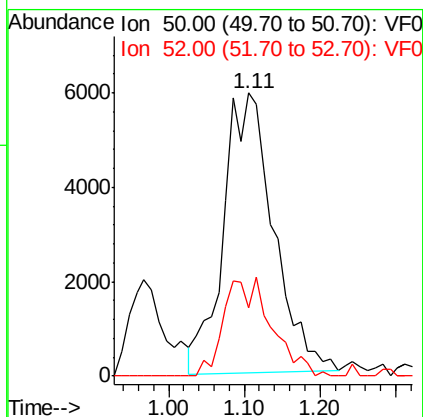
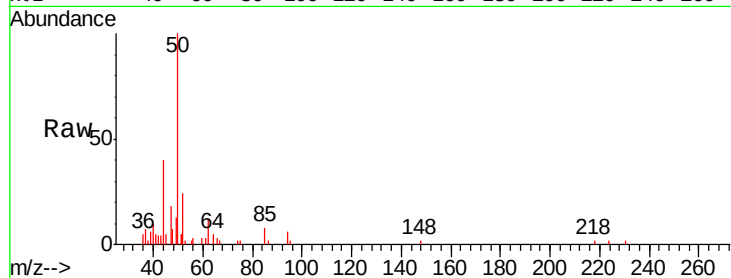
52 24.0 26.3 39.5#

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#4

Vinyl Chloride

Concen: 12.389 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061069.D

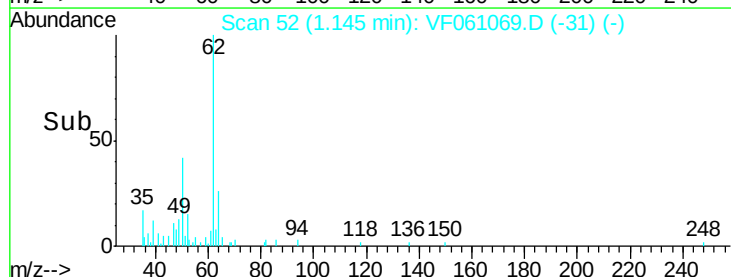
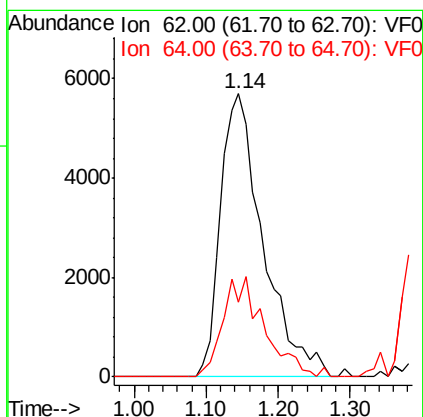
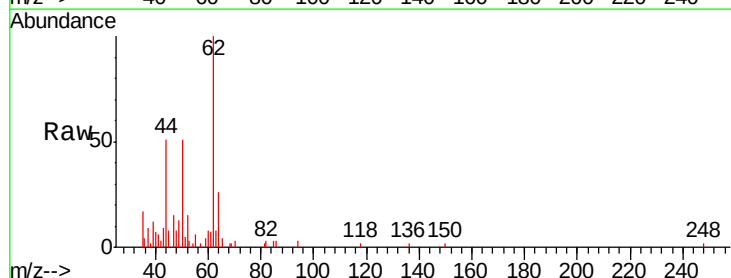
Acq: 18 Dec 2018 18:53

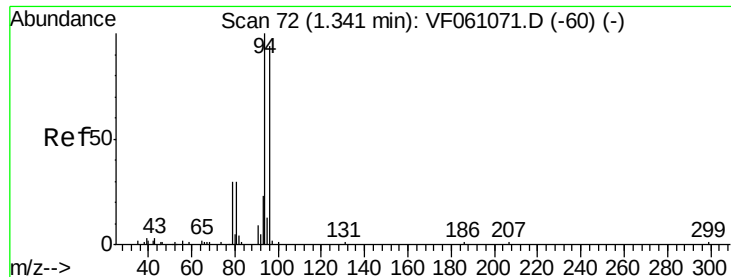
Tgt Ion: 62 Resp: 23287

Ion Ratio Lower Upper

62 100

64 26.3 30.4 45.6#





#5

Bromomethane

Concen: 12.944 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

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ClientSampleId :

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Tgt Ion: 94 Resp: 16916

Ion Ratio Lower Upper

94 100

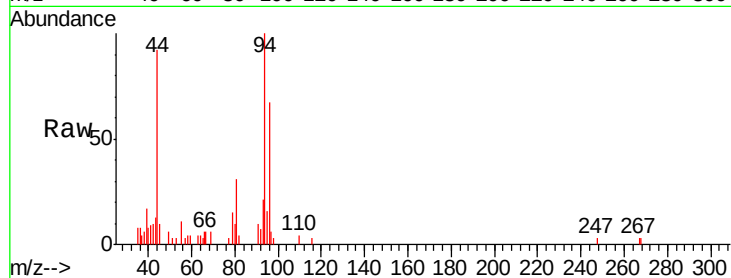
96 66.8 74.4 111.6#

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.33

4000

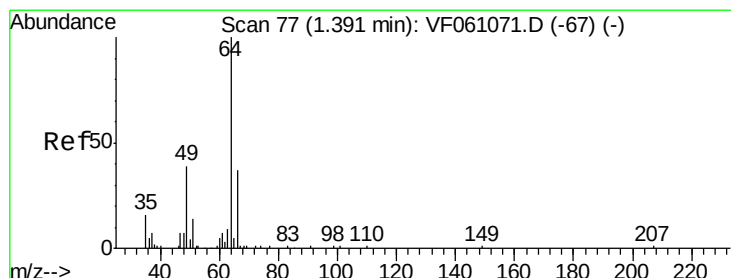
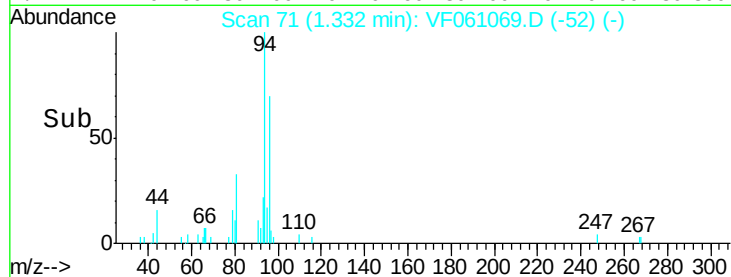
3000

2000

1000

0

Time-->



#6

Chloroethane

Concen: 14.649 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.01 min

Lab File: VF061069.D

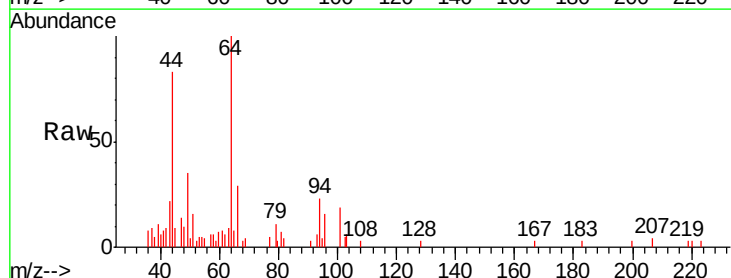
Acq: 18 Dec 2018 18:53

Tgt Ion: 64 Resp: 11869

Ion Ratio Lower Upper

64 100

66 28.8 30.9 46.3#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.40

4000

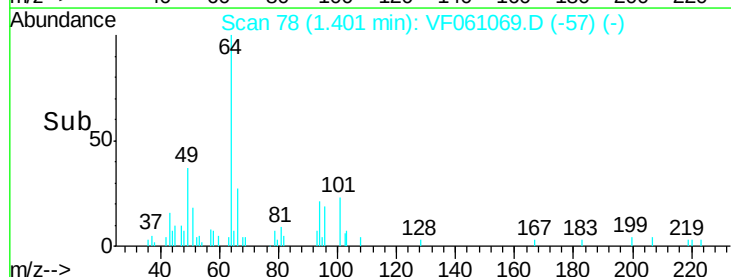
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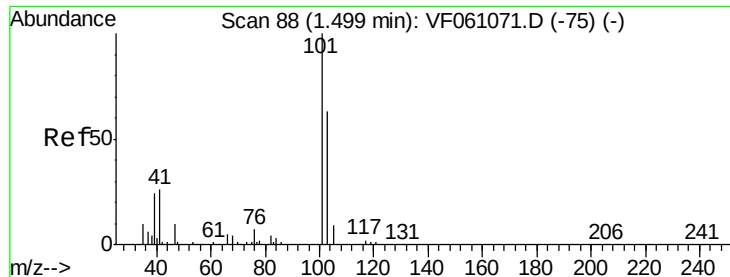
2000

1000

0

Time-->





#7

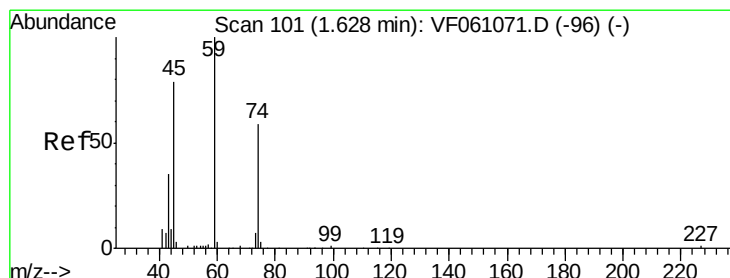
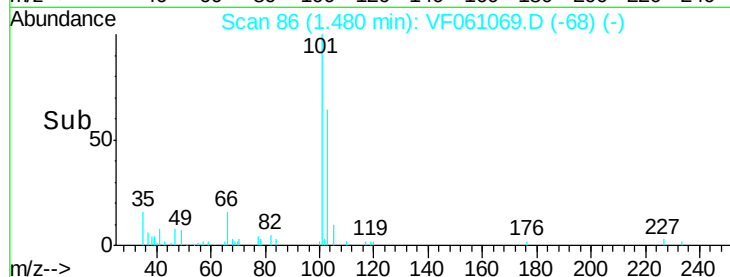
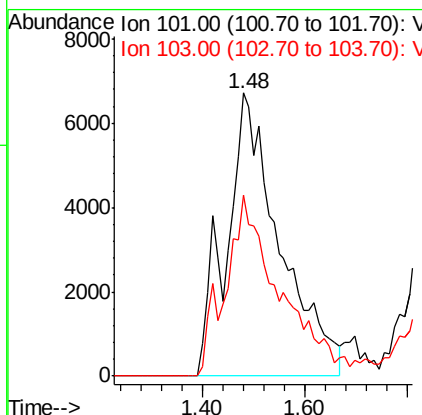
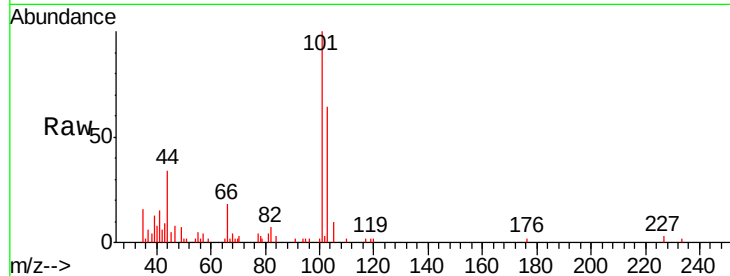
Trichlorofluoromethane
Concen: 12.440 ug/l m
RT: 1.48 min Scan# 86
Delta R.T. -0.02 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion: 101 Resp: 48479
Ion Ratio Lower Upper
101 100
103 64.1 50.7 76.1

Manual Integrations
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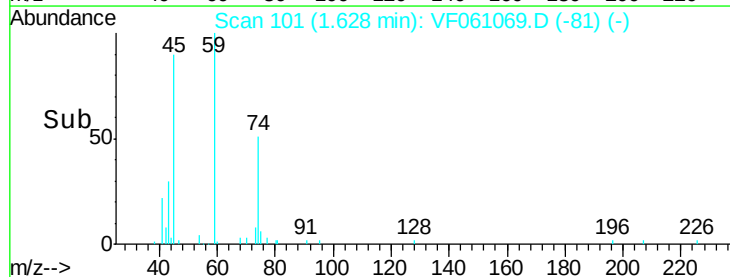
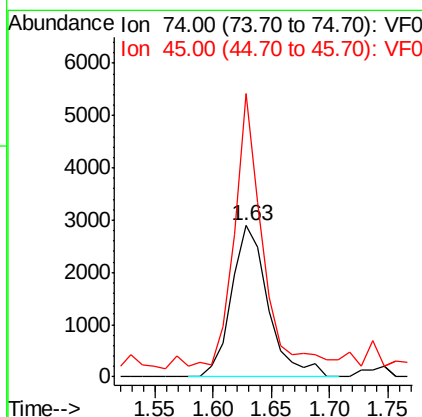
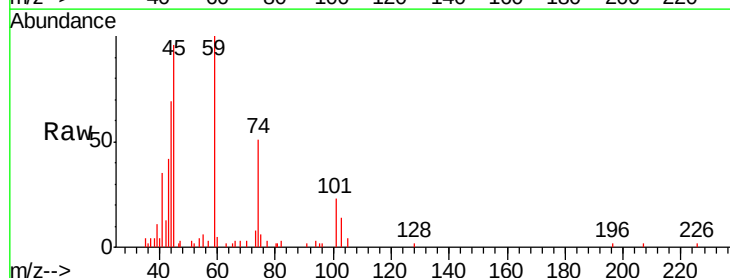
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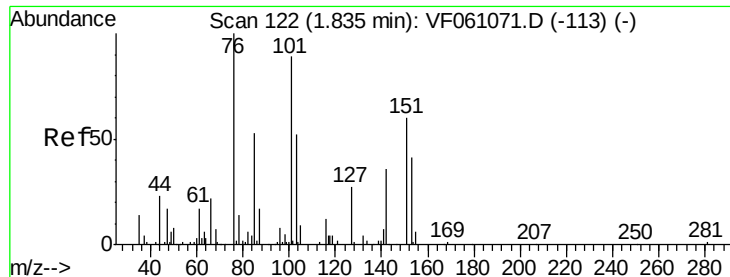


#8

Diethyl Ether
Concen: 11.271 ug/l
RT: 1.63 min Scan# 101
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion: 74 Resp: 6287
Ion Ratio Lower Upper
74 100
45 187.2 67.8 203.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 13.098 ug/l

RT: 1.84 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF061069.D

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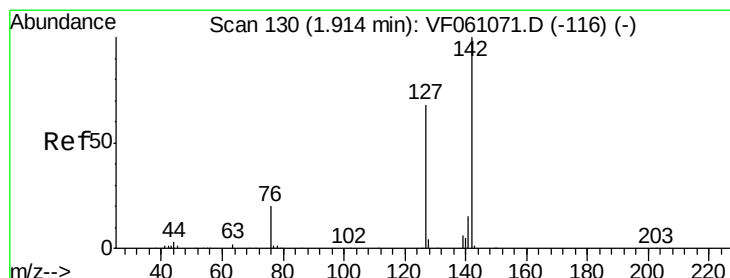
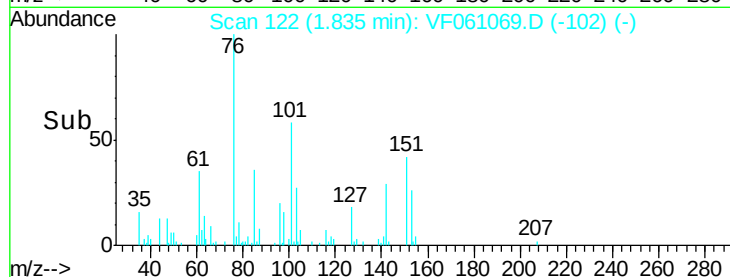
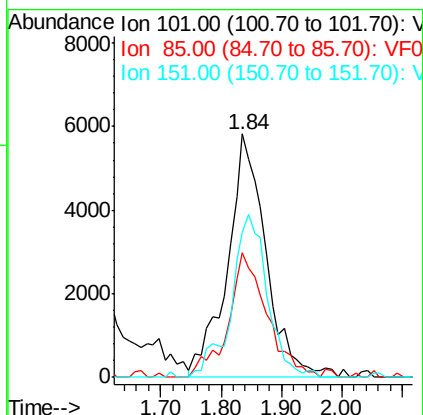
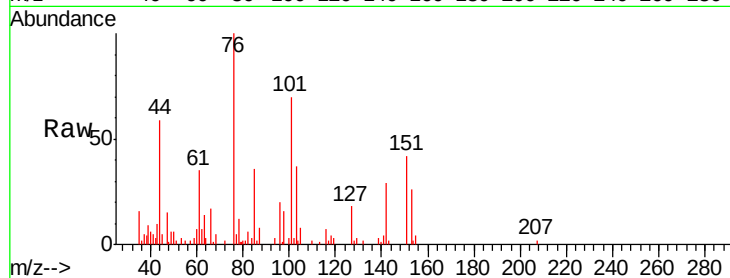
ClientSampleId :

VSTDIC010

Tgt Ion:	101	Resp:	25773
Ion Ratio	Lower	Upper	
101	100		
85	51.3	44.5	66.7
151	59.5	49.9	74.9

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#10

Methyl Iodide

Concen: 13.137 ug/l m

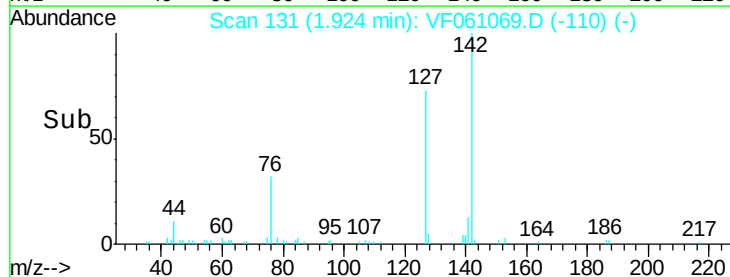
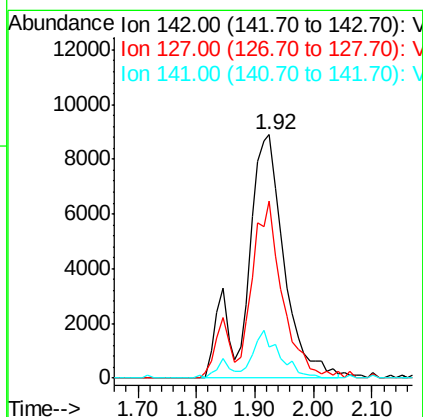
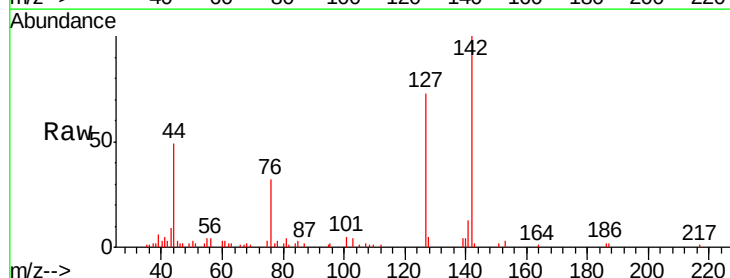
RT: 1.92 min Scan# 131

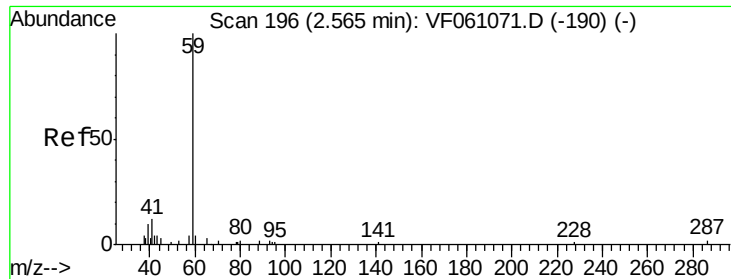
Delta R.T. 0.01 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion:	142	Resp:	39601
Ion Ratio	Lower	Upper	
142	100		
127	72.9	54.7	82.1
141	13.0	12.2	18.2





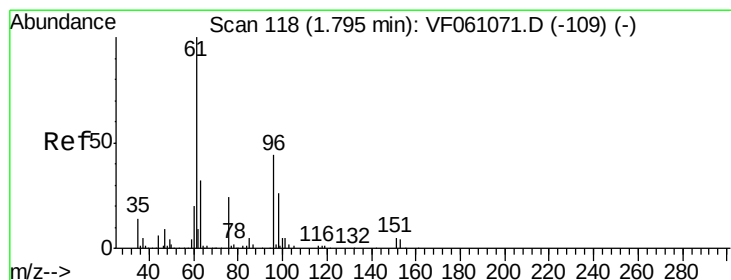
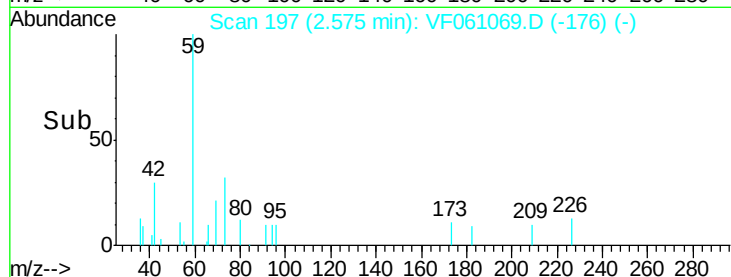
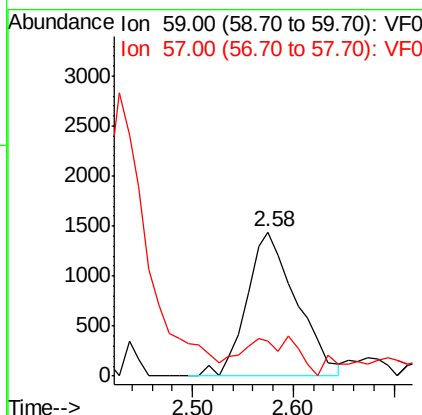
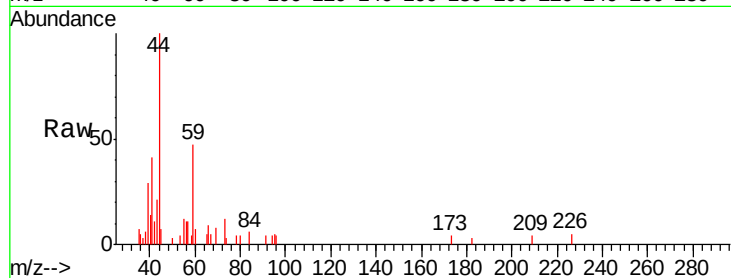
#11
Tert butyl alcohol
Concen: 51.639 ug/l
RT: 2.58 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion: 59 Resp: 4914
Ion Ratio Lower Upper
59 100
57 24.3 11.5 17.3#

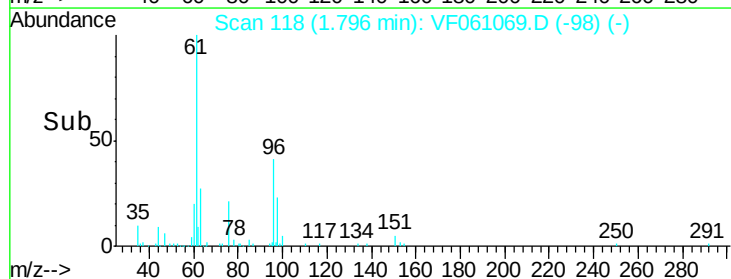
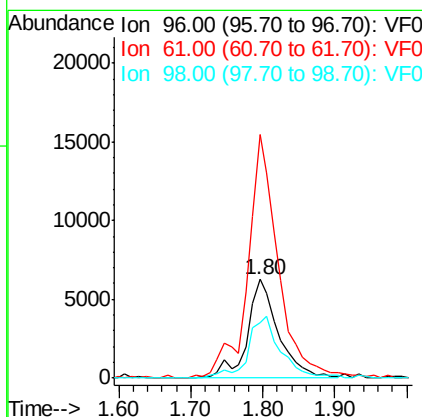
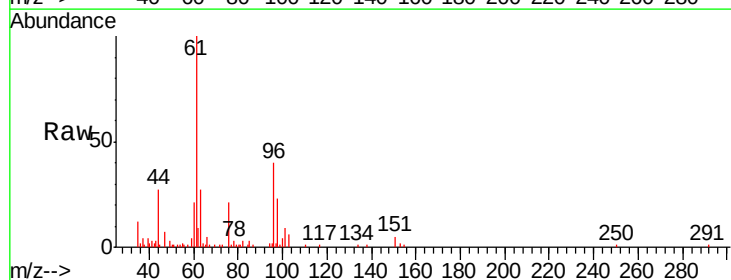
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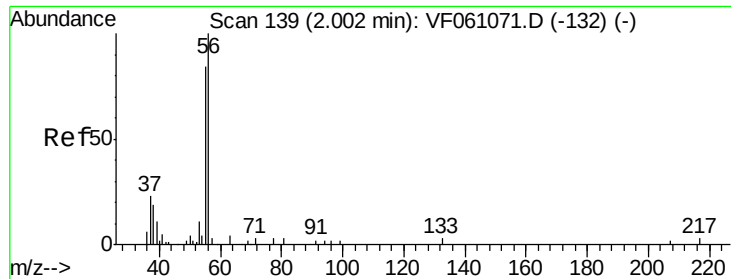
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#12
1,1-Dichloroethene
Concen: 12.090 ug/l
RT: 1.80 min Scan# 118
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion: 96 Resp: 19117
Ion Ratio Lower Upper
96 100
61 247.6 182.0 273.0
98 56.8 46.5 69.7





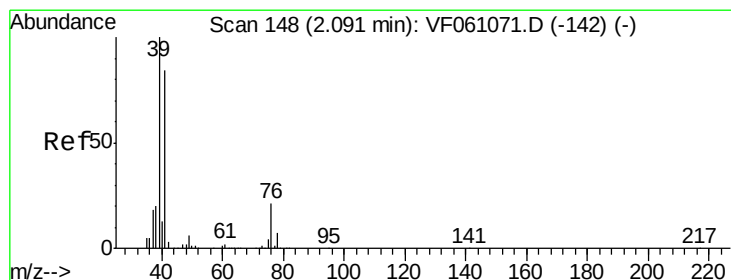
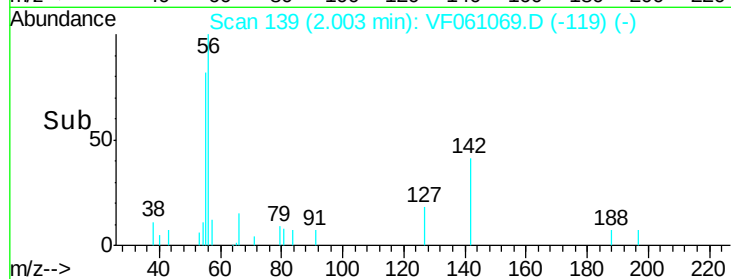
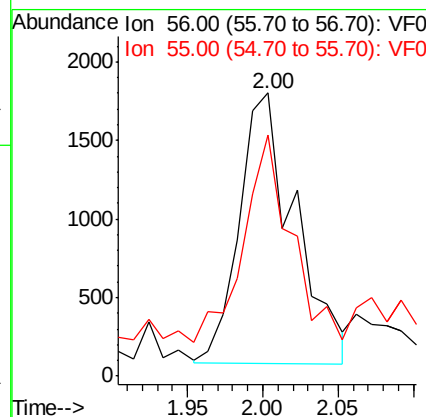
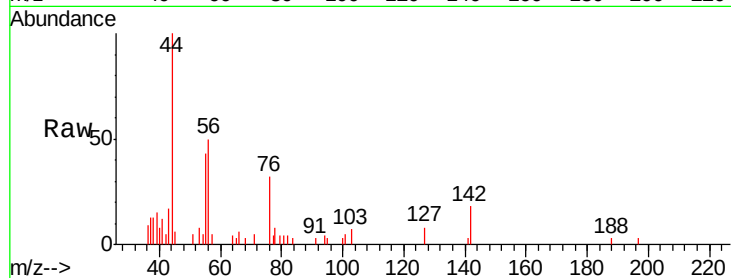
#13
Acrolein
Concen: 53.508 ug/l m
RT: 2.00 min Scan# 139
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion: 56 Resp: 4421
Ion Ratio Lower Upper
56 100
55 85.1 70.2 105.2

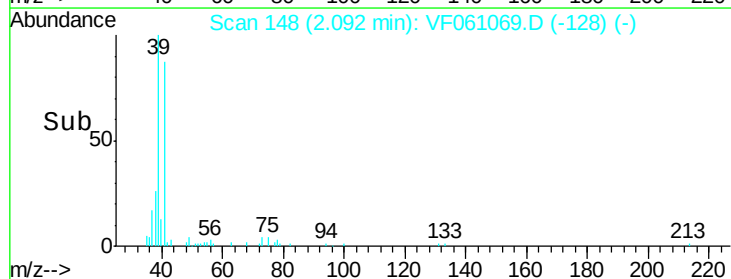
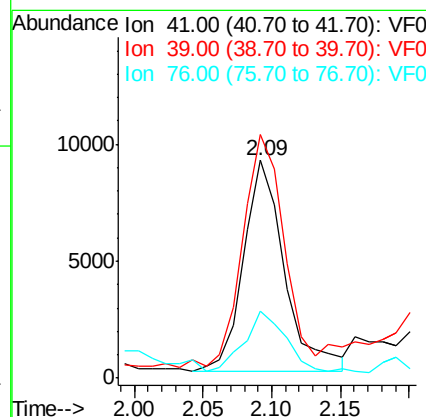
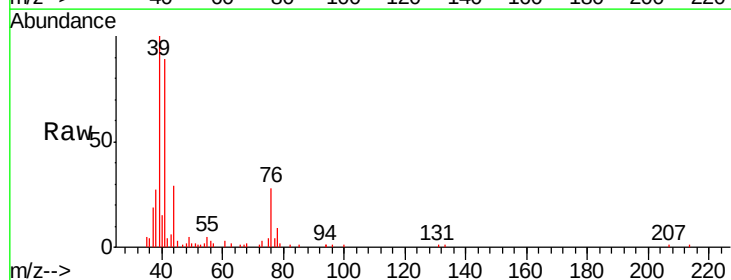
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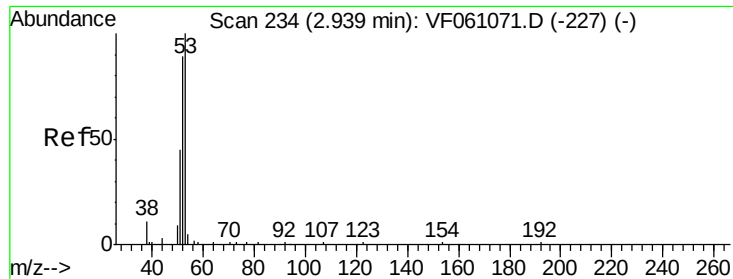
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#14
Allyl chloride
Concen: 10.279 ug/l
RT: 2.09 min Scan# 148
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion: 41 Resp: 18955
Ion Ratio Lower Upper
41 100
39 111.9 96.4 144.6
76 30.8 25.4 38.0





#15

Acrylonitrile

Concen: 50.914 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

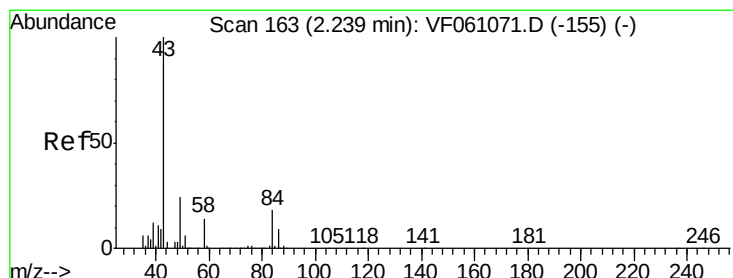
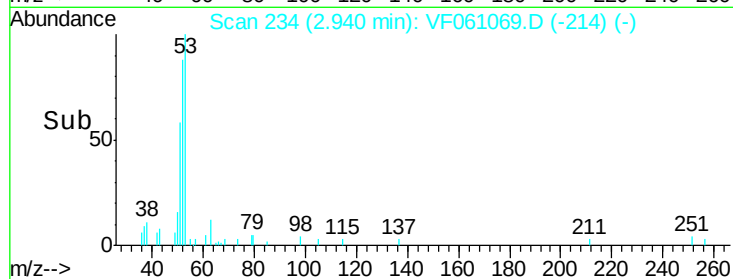
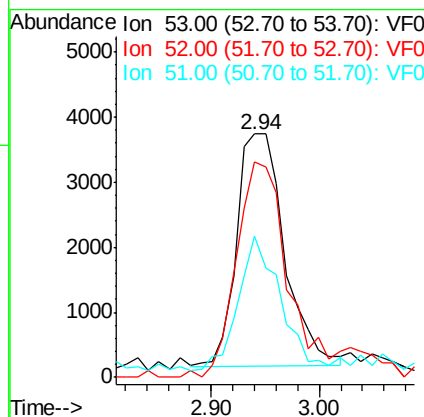
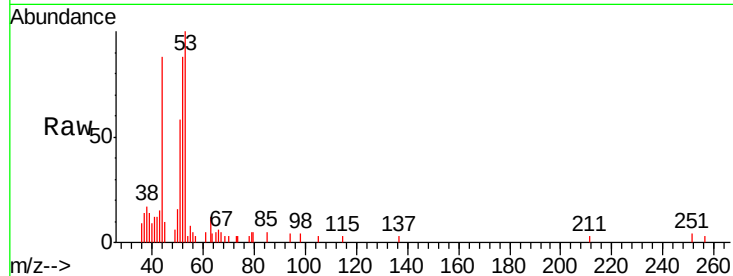
ClientSampleId :

VSTDIC010

Tgt Ion:	53	Resp:	11089
Ion	Ratio	Lower	Upper
53	100		
52	88.2	71.3	106.9
51	58.2	36.8	55.2#

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#16

Acetone

Concen: 59.183 ug/l

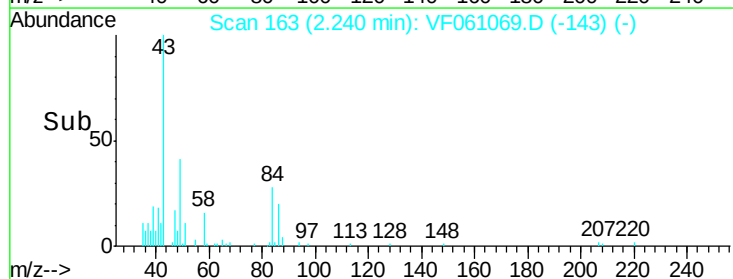
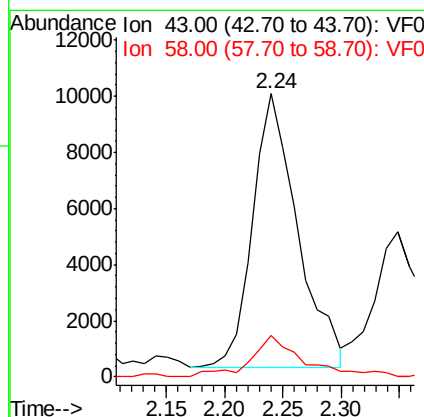
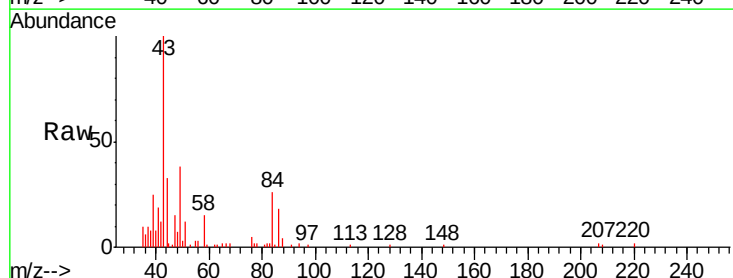
RT: 2.24 min Scan# 163

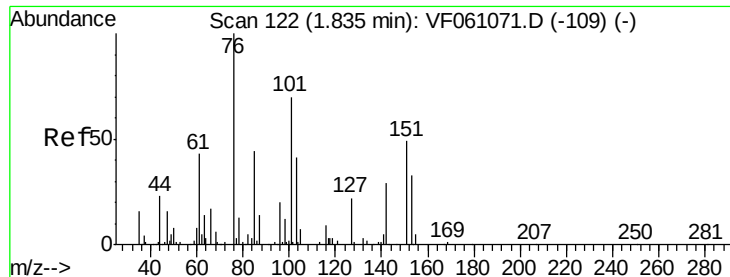
Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion:	43	Resp:	26053
Ion	Ratio	Lower	Upper
43	100		
58	14.7	11.1	16.7





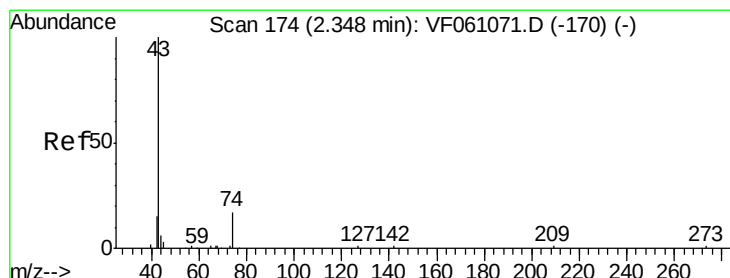
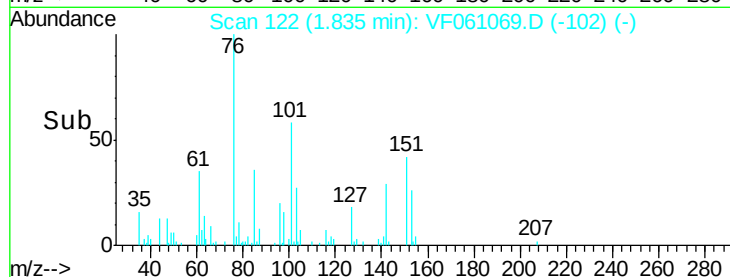
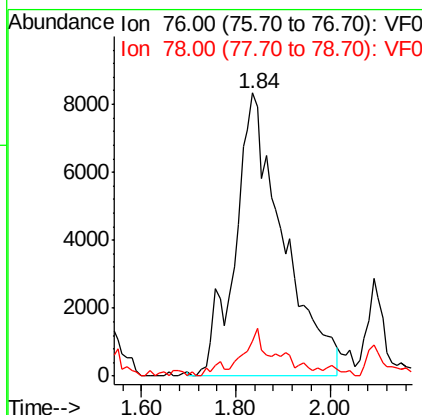
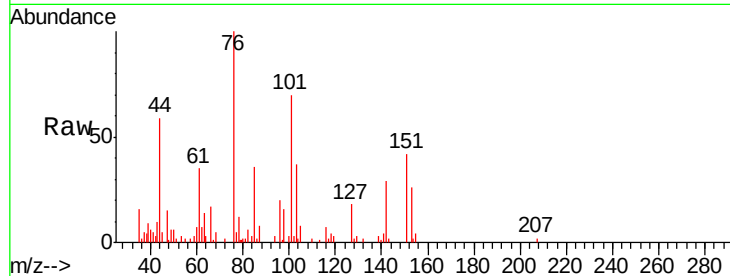
#17
Carbon Disulfide
Concen: 13.527 ug/l m
RT: 1.84 min Scan# 122
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion: 76 Resp: 58655
Ion Ratio Lower Upper
76 100
78 12.2 10.2 15.4

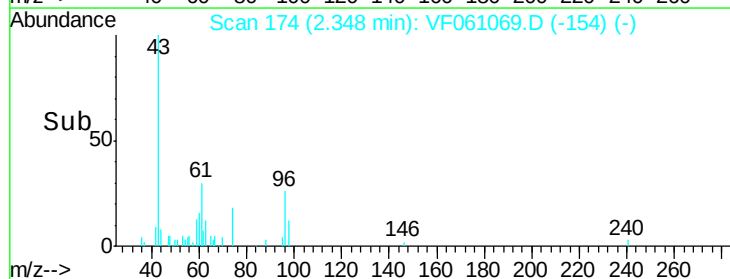
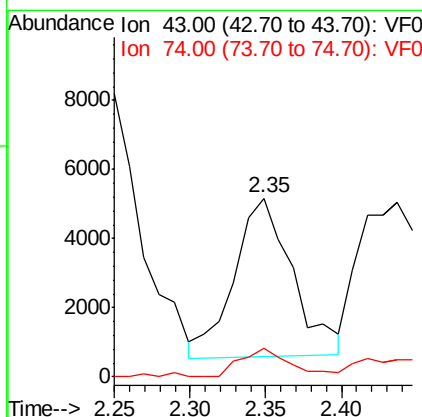
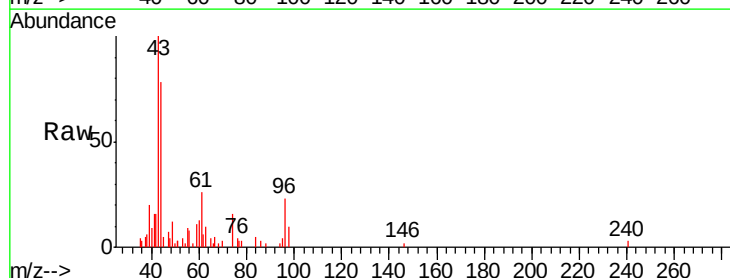
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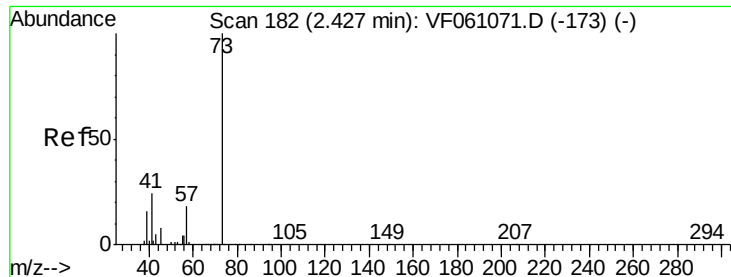
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#18
Methyl Acetate
Concen: 15.095 ug/l
RT: 2.35 min Scan# 174
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion: 43 Resp: 12305
Ion Ratio Lower Upper
43 100
74 15.9 11.0 16.6





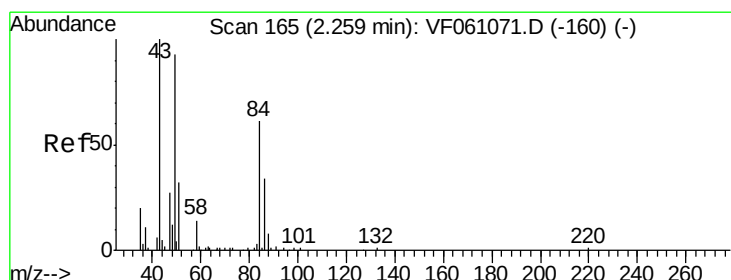
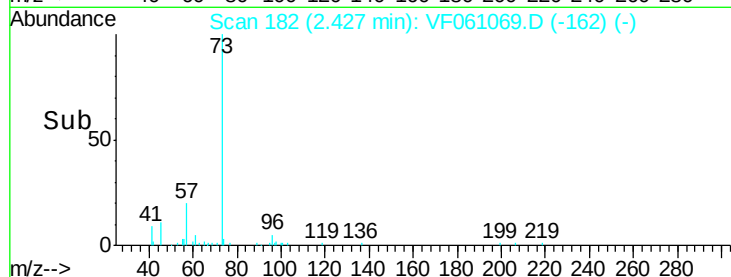
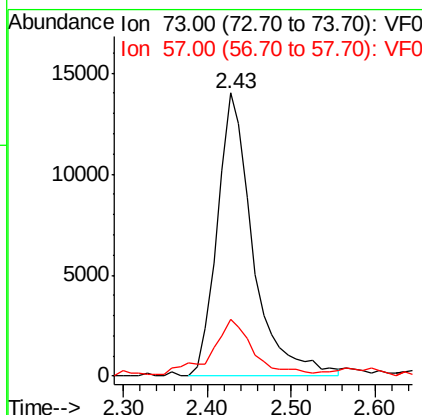
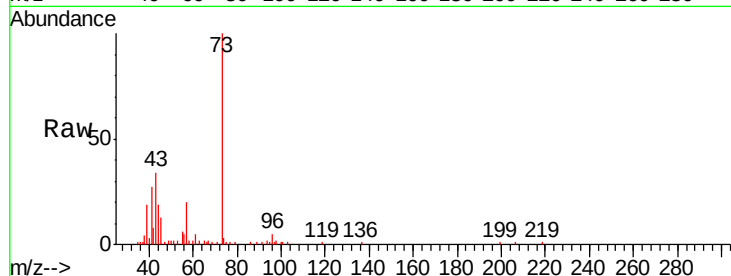
#19
Methyl tert-butyl Ether
Concen: 11.735 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion: 73 Resp: 41434
Ion Ratio Lower Upper
73 100
57 20.2 14.5 21.7

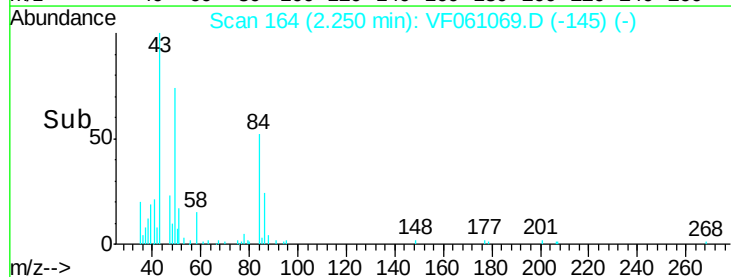
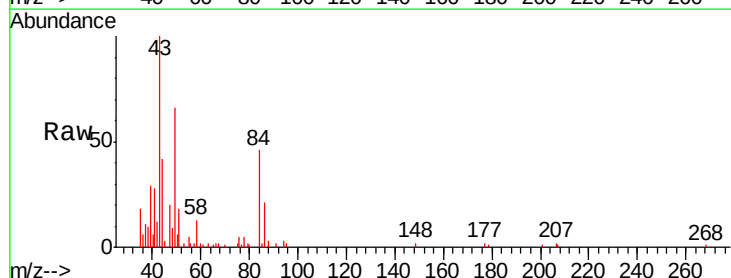
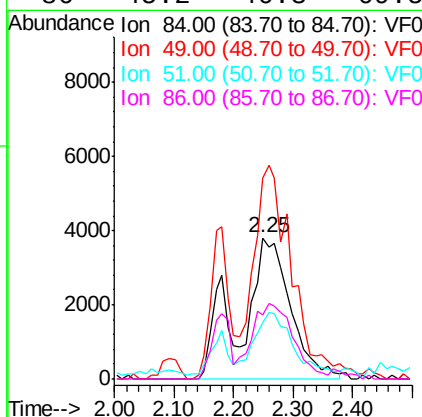
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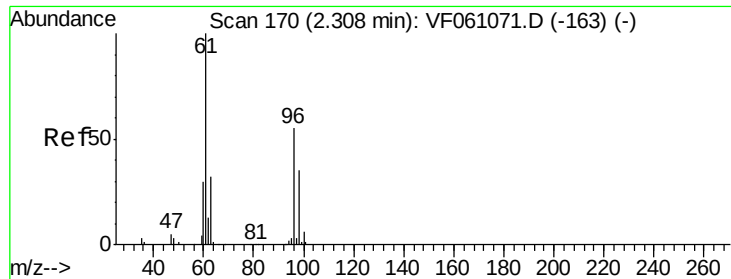
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#20
Methylene Chloride
Concen: 14.741 ug/l m
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion: 84 Resp: 22227
Ion Ratio Lower Upper
84 100
49 142.0 129.4 194.2
51 39.6 44.0 66.0#
86 45.2 46.3 69.5#





#21

trans-1,2-Dichloroethene

Concen: 13.574 ug/l m

RT: 2.31 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

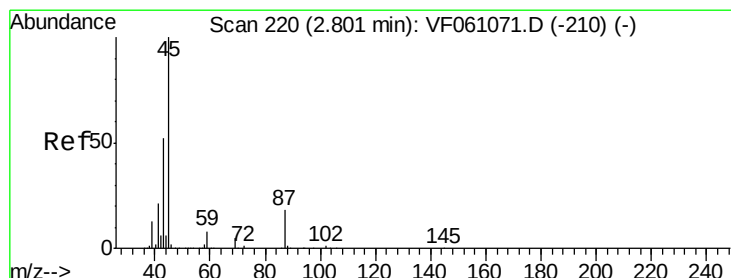
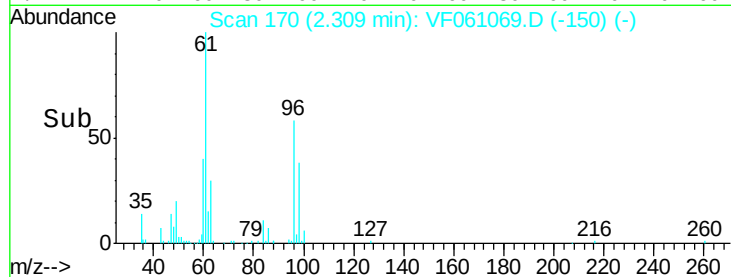
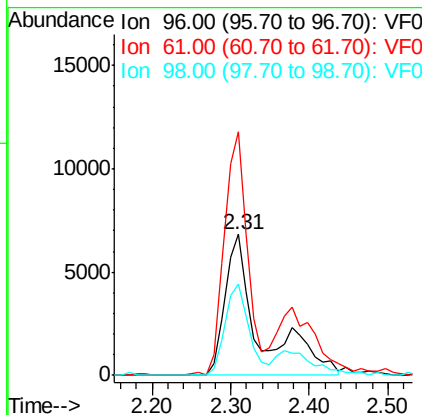
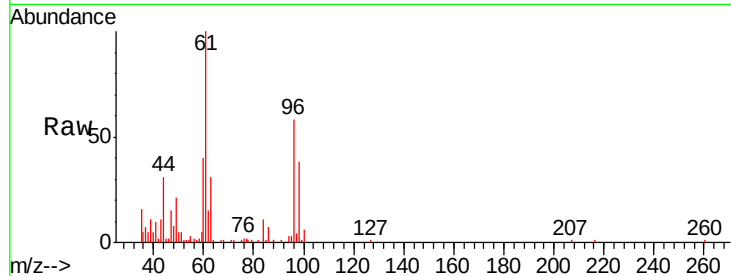
ClientSampleId :

VSTDIC010

Tgt Ion:	96	Resp:	20699
Ion	Ratio	Lower	Upper
96	100		
61	173.0	146.0	219.0
98	65.0	51.6	77.4

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#22

Diisopropyl ether

Concen: 12.208 ug/l

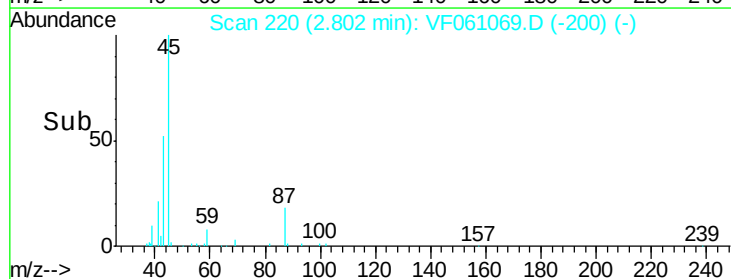
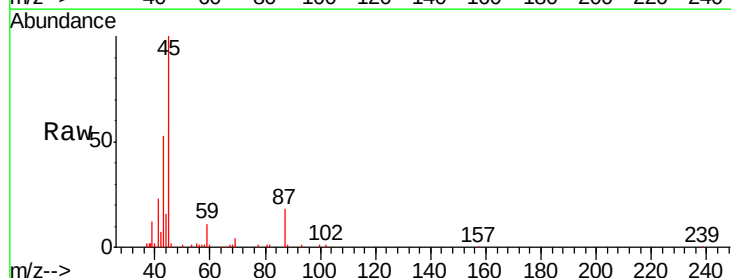
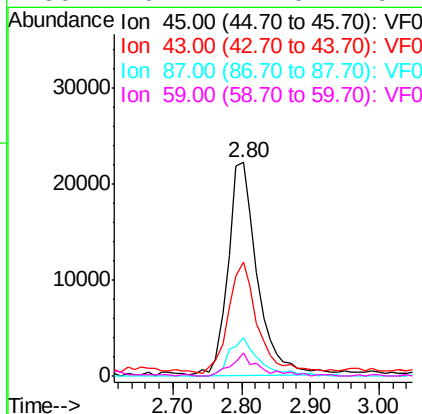
RT: 2.80 min Scan# 220

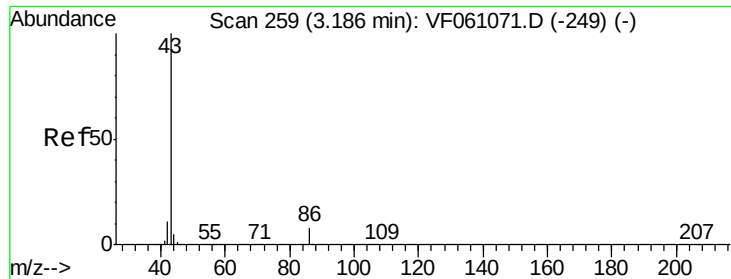
Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion:	45	Resp:	65203
Ion	Ratio	Lower	Upper
45	100		
43	53.5	42.2	63.2
87	17.7	14.6	22.0
59	10.7	7.0	10.4#





#23

Vinyl Acetate

Concen: 60.759 ug/l

RT: 3.19 min Scan# 259

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 148944

Ion Ratio Lower Upper

43 100

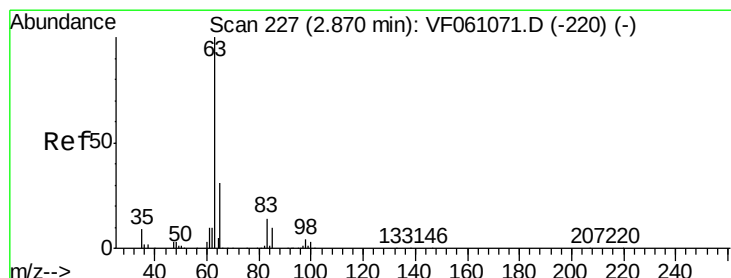
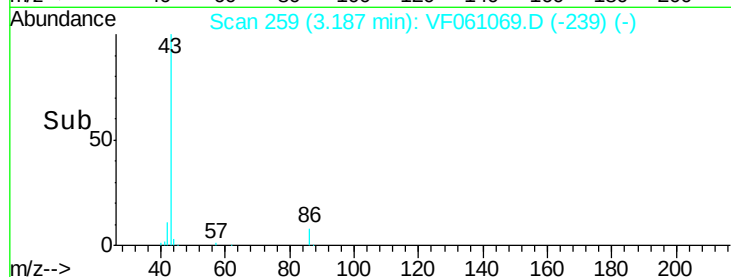
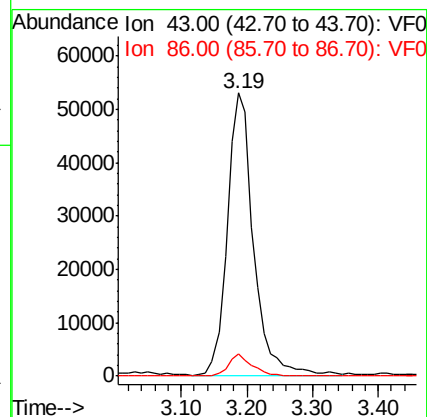
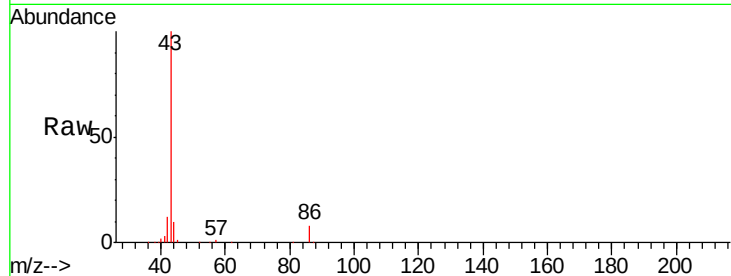
86 8.0 6.3 9.5

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#24

1,1-Dichloroethane

Concen: 11.485 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

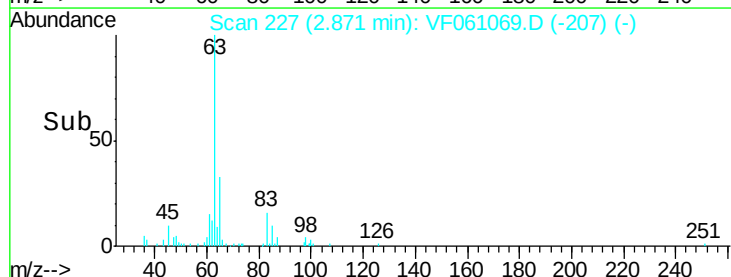
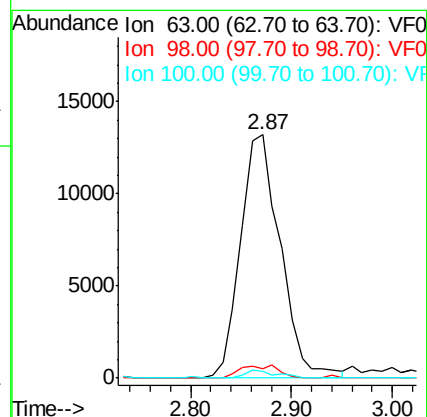
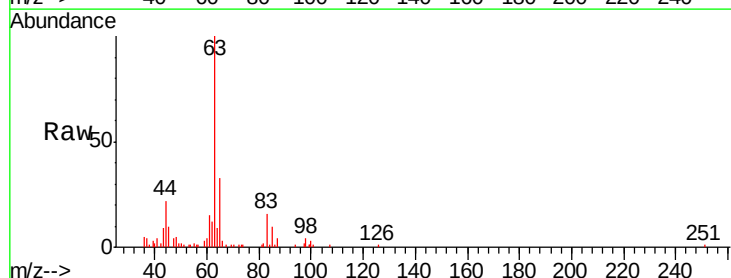
Tgt Ion: 63 Resp: 36444

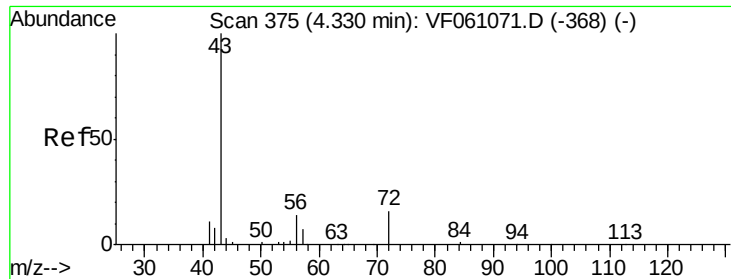
Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.5

100 2.6 1.7 5.1





#25

2-Butanone

Concen: 62.272 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 46371

Ion Ratio Lower Upper

43 100

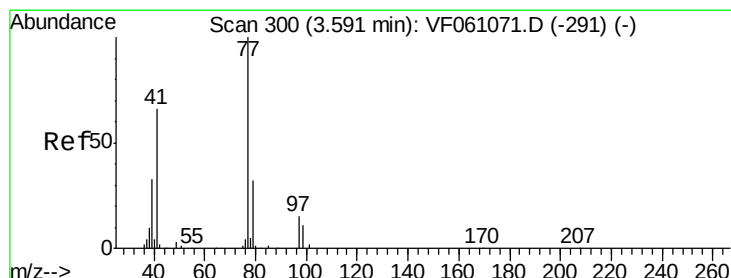
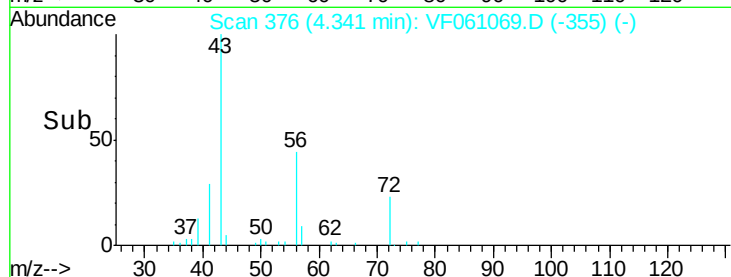
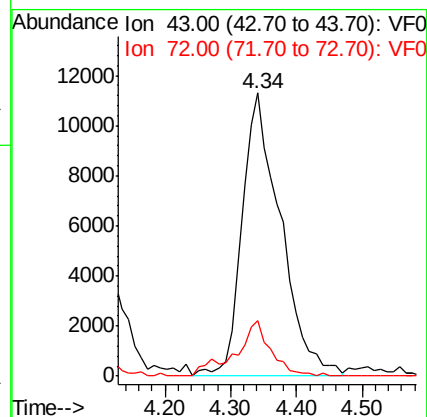
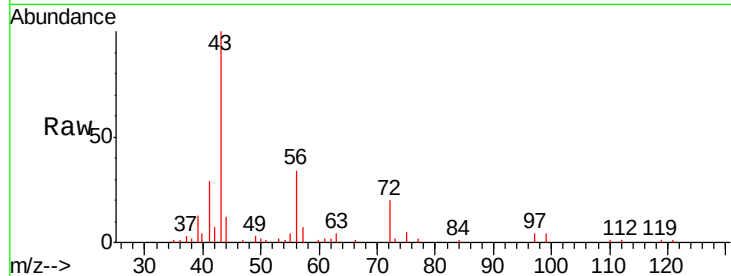
72 19.7 15.6 23.4

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#26

2,2-Dichloropropane

Concen: 11.247 ug/l

RT: 3.59 min Scan# 300

Delta R.T. 0.00 min

Lab File: VF061069.D

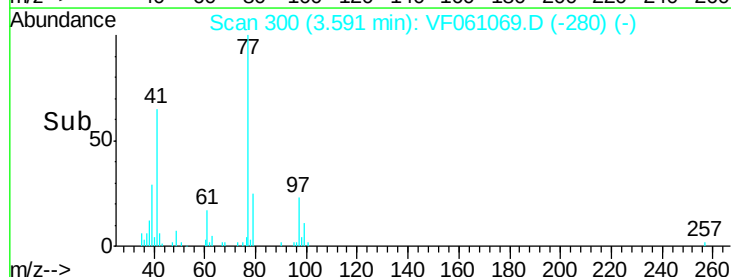
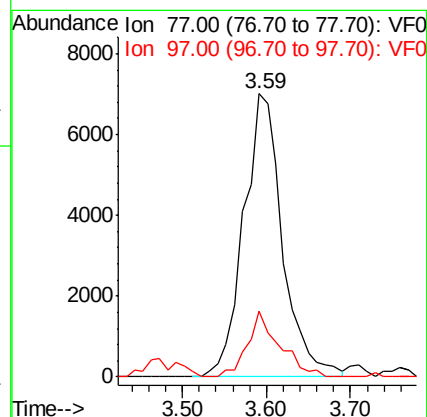
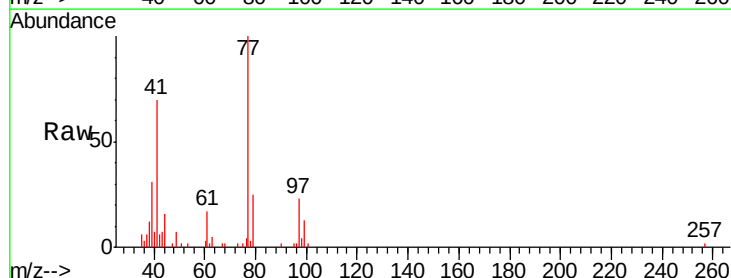
Acq: 18 Dec 2018 18:53

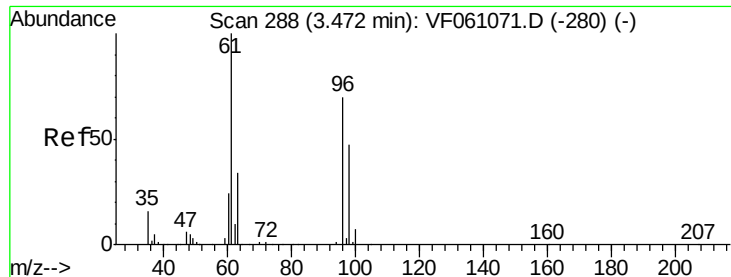
Tgt Ion: 77 Resp: 22573

Ion Ratio Lower Upper

77 100

97 23.3 8.2 24.4





#27

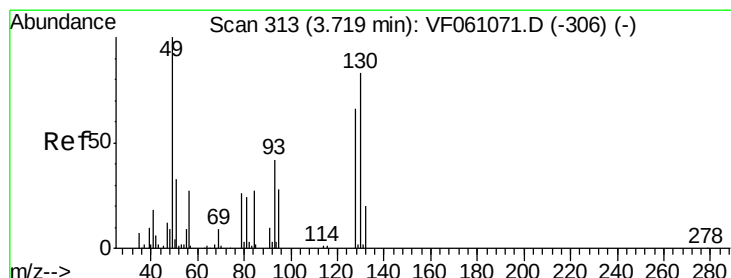
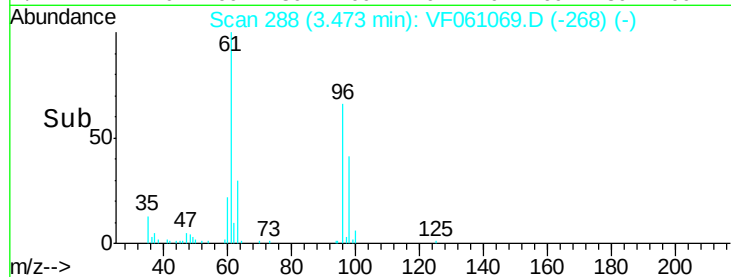
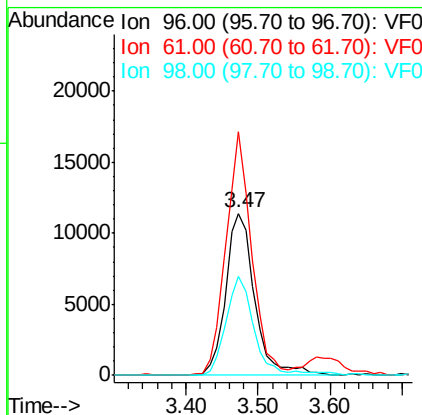
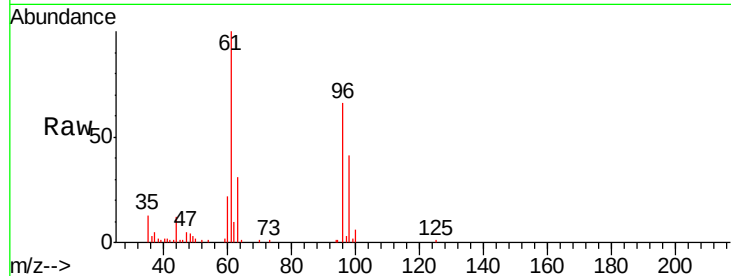
cis-1,2-Dichloroethene
 Concen: 12.840 ug/l
 RT: 3.47 min Scan# 288
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	31734		
61	150.4	0.0	287.8	
98	61.3	0.0	134.2	

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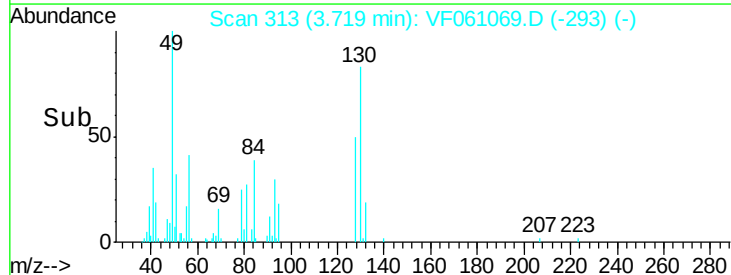
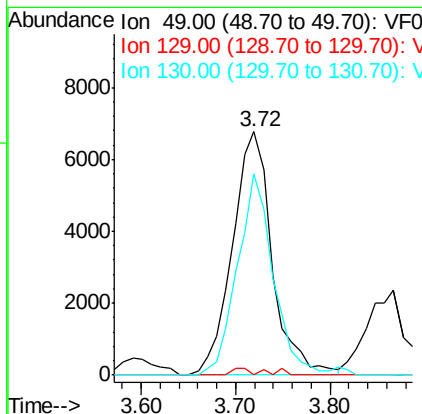
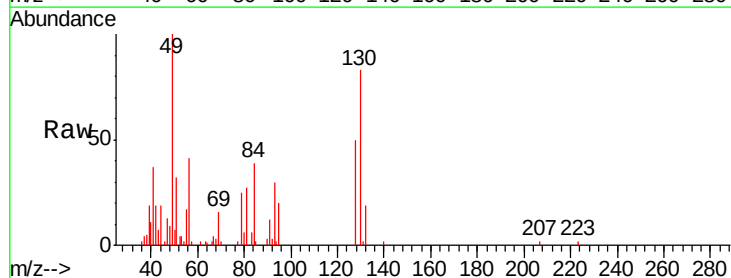
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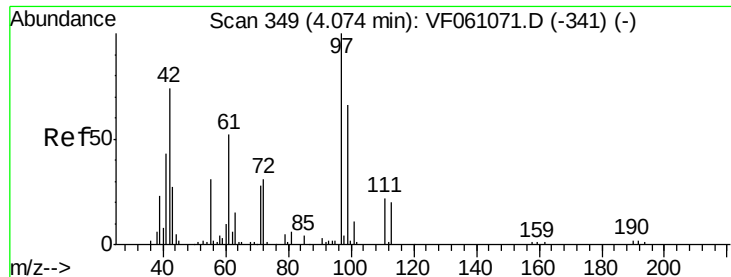


#28

Bromochloromethane
 Concen: 12.678 ug/l
 RT: 3.72 min Scan# 313
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	19749		
129	0.0	0.0	3.6	
130	82.5	65.8	98.6	





#29

Tetrahydrofuran

Concen: 61.575 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

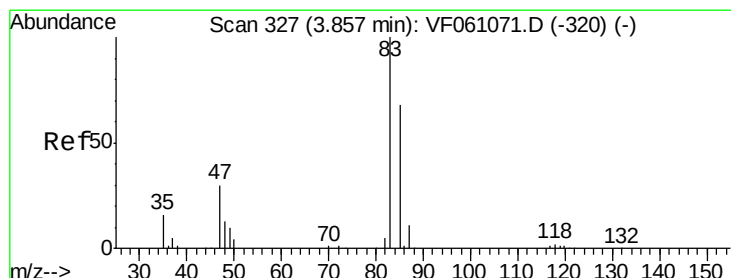
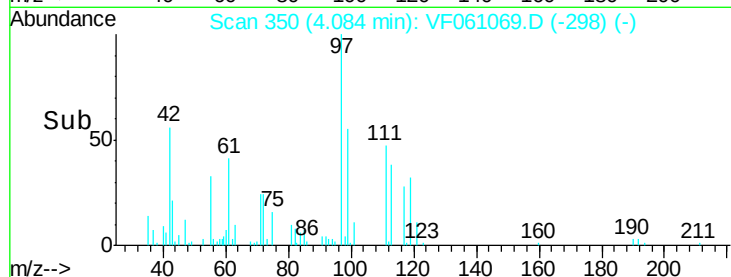
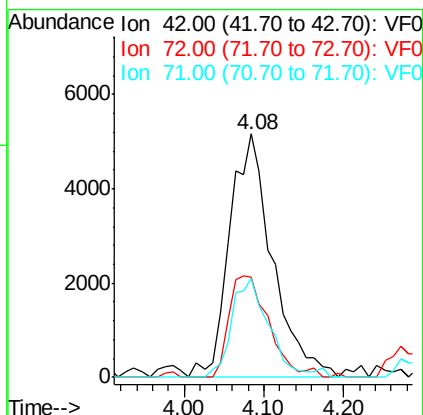
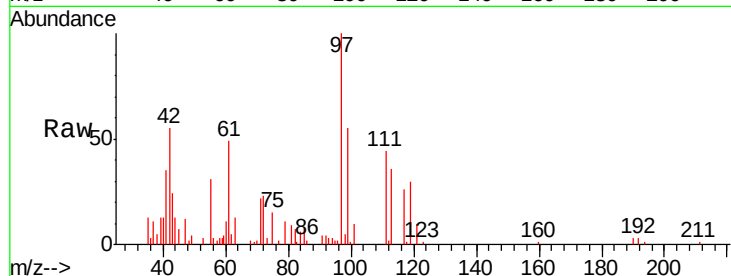
ClientSampleId :

VSTDIC010

Tgt Ion:	42	Resp:	19337
Ion Ratio	Lower	Upper	
42	100		
72	38.7	31.8	47.8
71	35.7	29.7	44.5

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#30

Chloroform

Concen: 12.499 ug/l

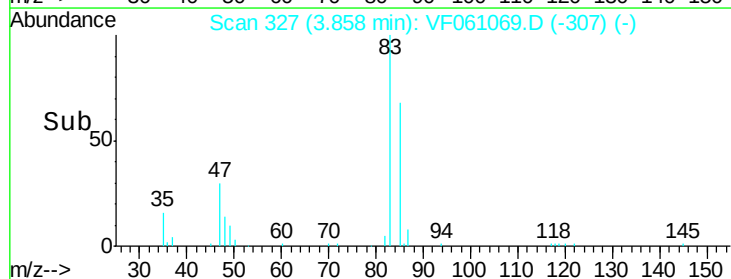
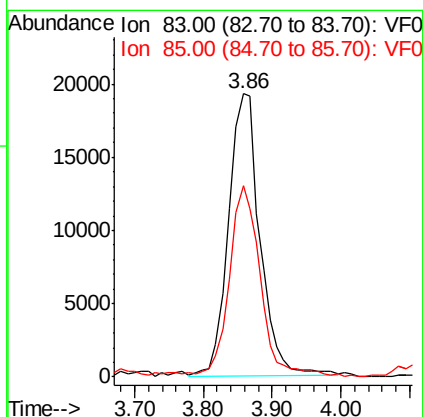
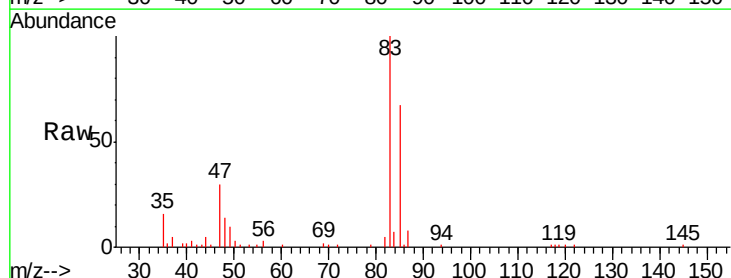
RT: 3.86 min Scan# 327

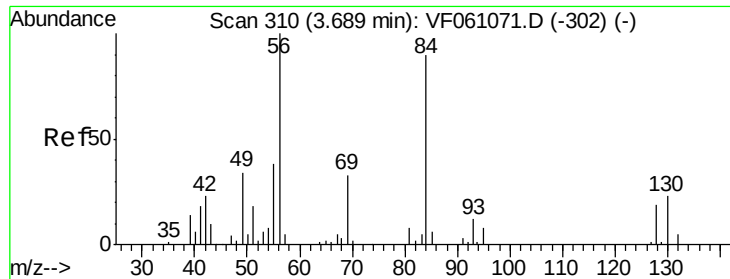
Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion:	83	Resp:	61237
Ion Ratio	Lower	Upper	
83	100		
85	67.4	54.5	81.7





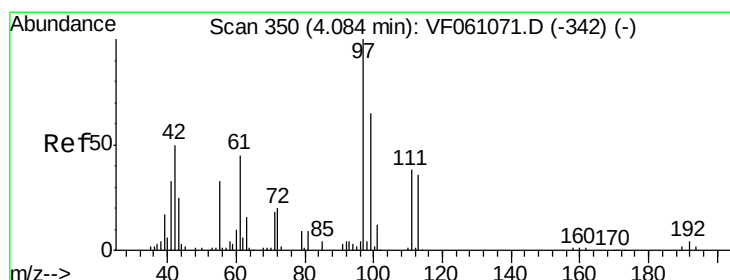
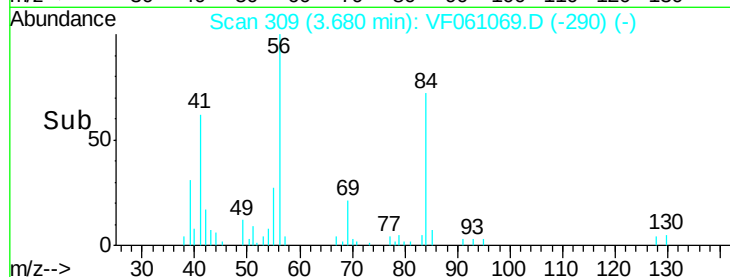
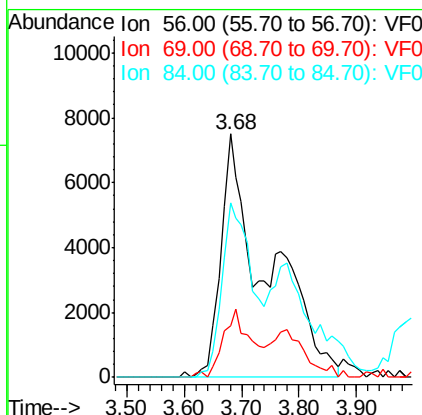
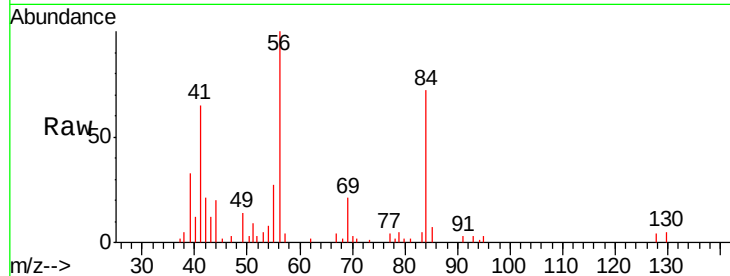
#31
Cyclohexane
Concen: 12.460 ug/l m
RT: 3.68 min Scan# 309
Delta R.T. -0.01 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion: 56 Resp: 41470
Ion Ratio Lower Upper
56 100
69 21.1 26.0 39.0#
84 71.6 71.4 107.2

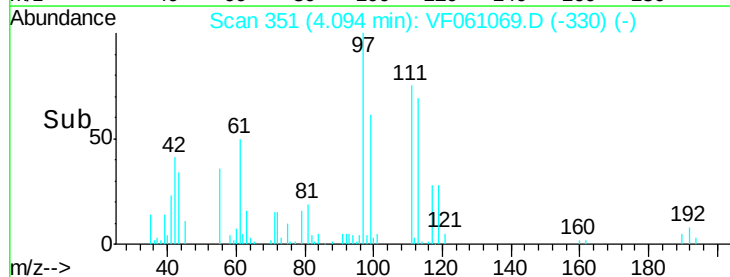
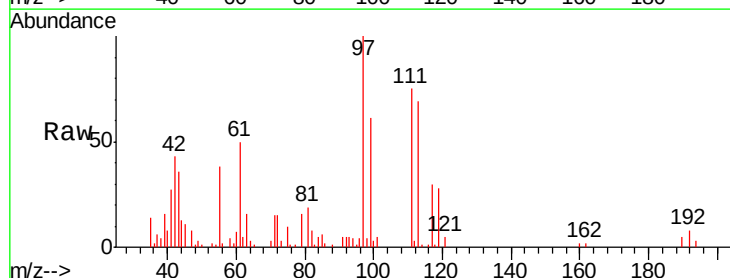
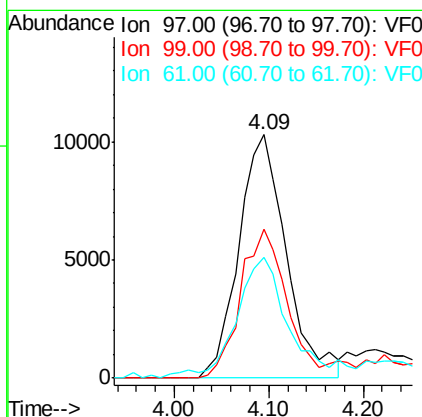
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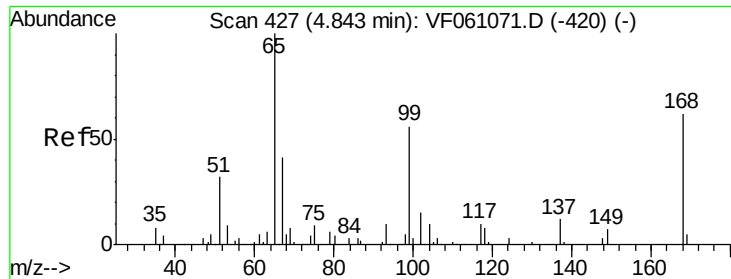
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#32
1,1,1-Trichloroethane
Concen: 11.095 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion: 97 Resp: 35982
Ion Ratio Lower Upper
97 100
99 61.1 51.6 77.4
61 49.6 36.2 54.2





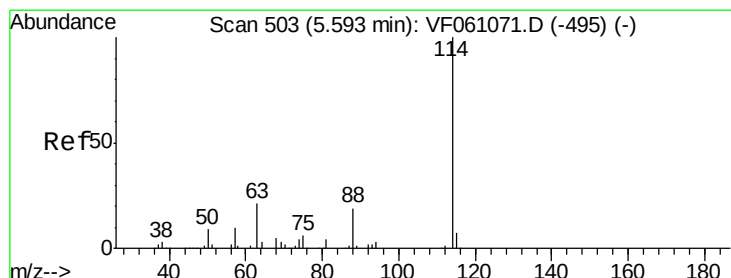
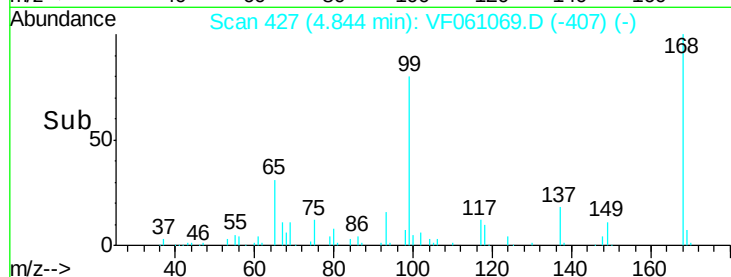
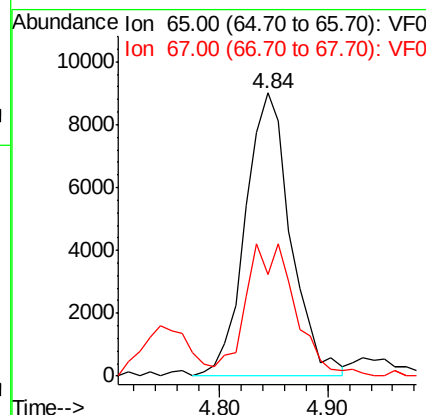
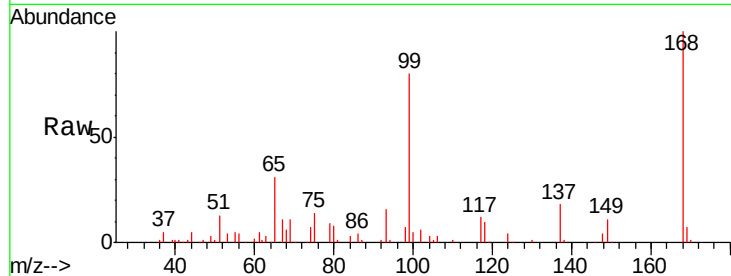
#33
 1,2-Dichloroethane-d4
 Concen: 11.447 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tgt Ion: 65 Resp: 26272
 Ion Ratio Lower Upper
 65 100
 67 35.7 0.0 94.6

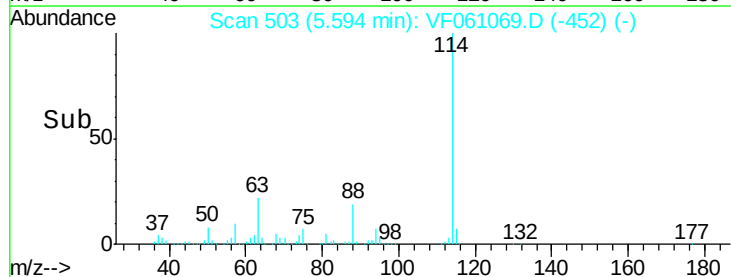
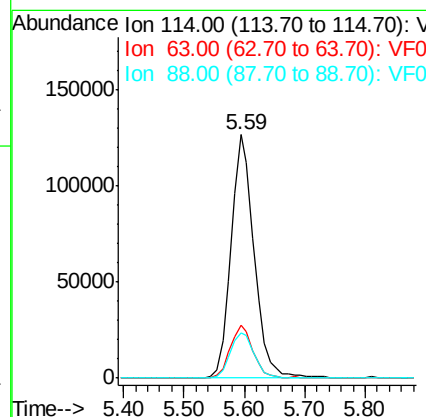
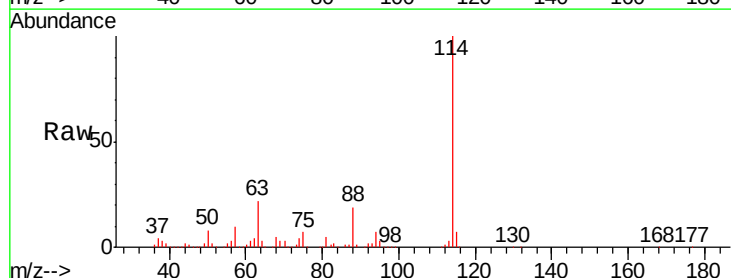
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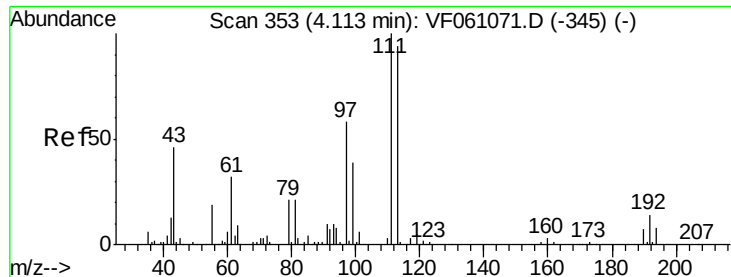
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Tgt Ion: 114 Resp: 335325
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 41.6
 88 18.6 0.0 38.0





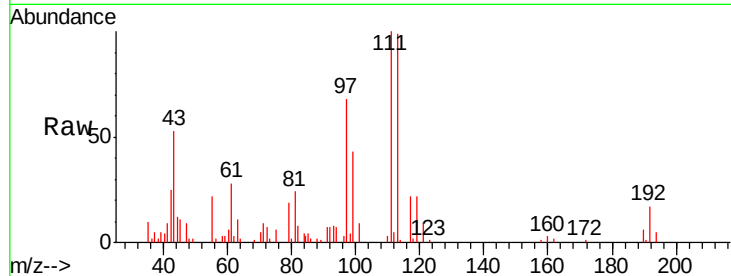
#35
Dibromofluoromethane
Concen: 11.762 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	30711		
111	101.1	85.2	127.8	
192	16.7	12.8	19.2	

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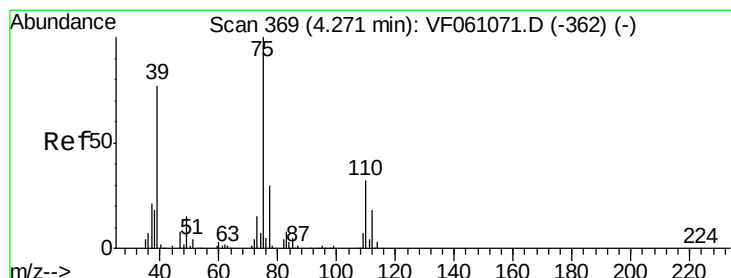
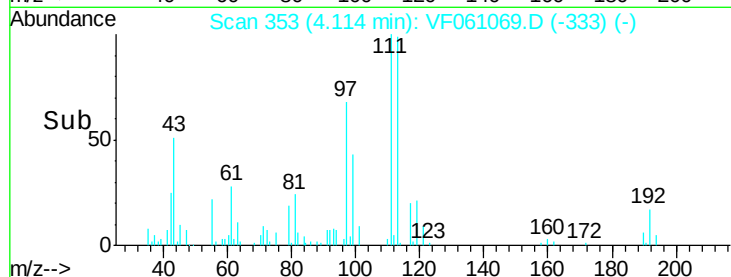
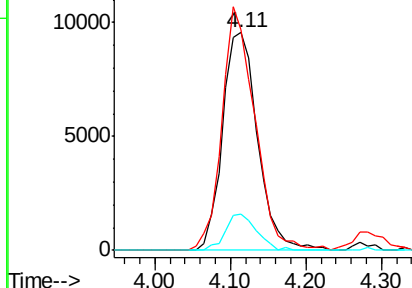
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Abundance Ion 113.00 (112.70 to 113.70): V

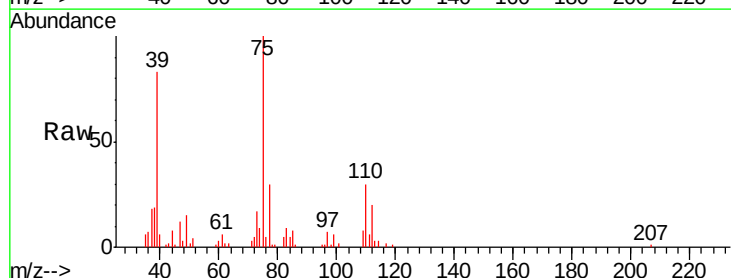
Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36
1,1-Dichloropropene
Concen: 10.961 ug/l
RT: 4.27 min Scan# 369
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

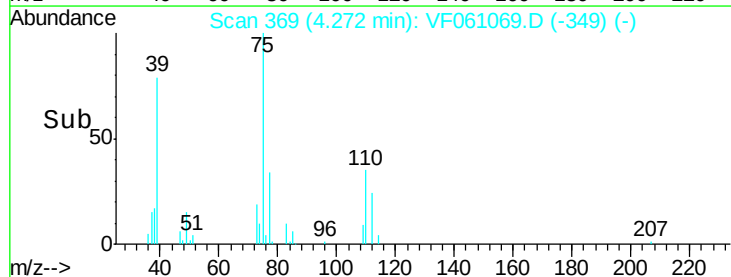
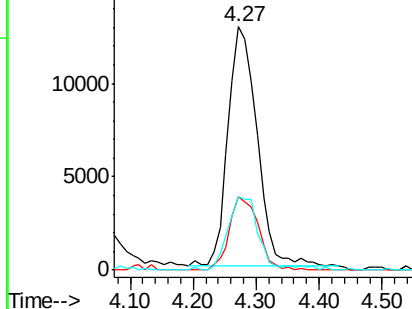
Tgt Ion	Ratio	Resp	Lower	Upper
75	100	41157		
110	30.1	16.1	48.2	
77	30.0	24.5	36.7	

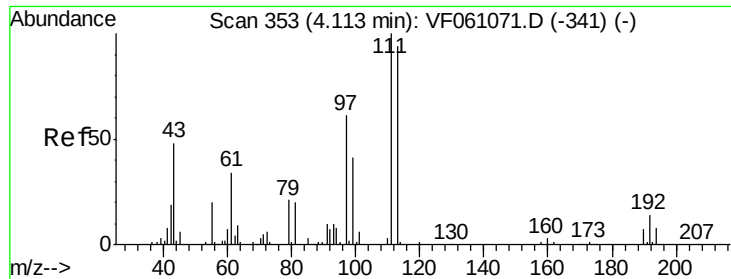


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





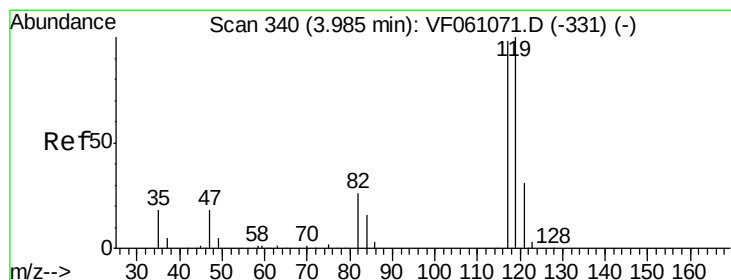
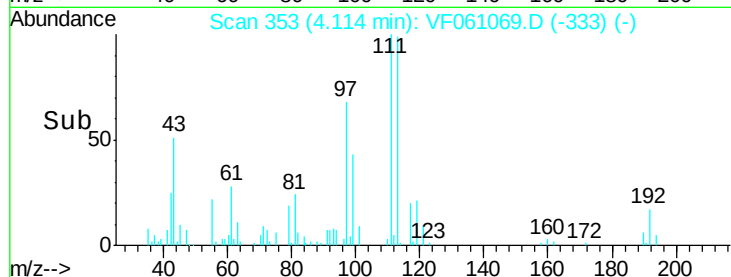
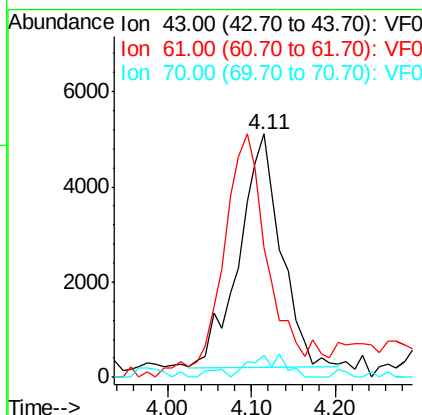
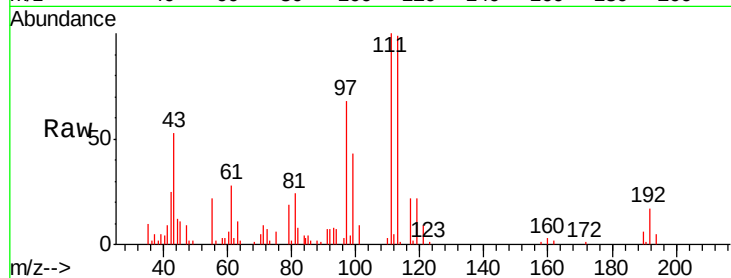
#37
Ethyl Acetate
Concen: 11.212 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion	Ratio	Lower	Upper
43	100		
61	53.2	56.6	84.8#
70	9.0	6.3	9.5

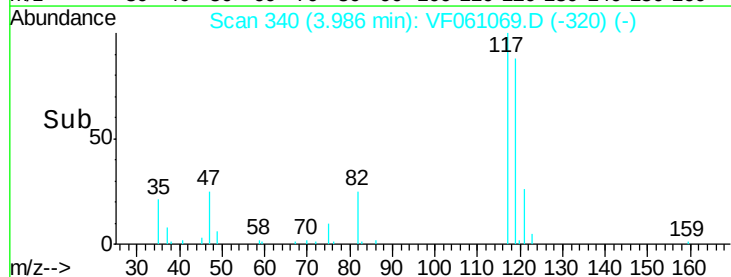
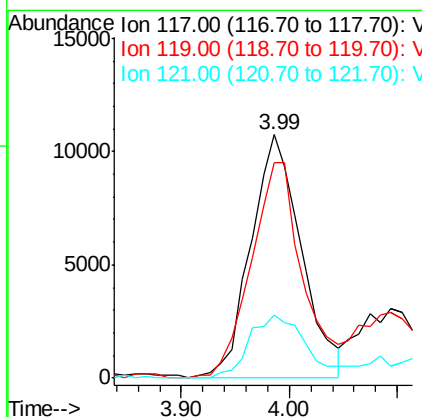
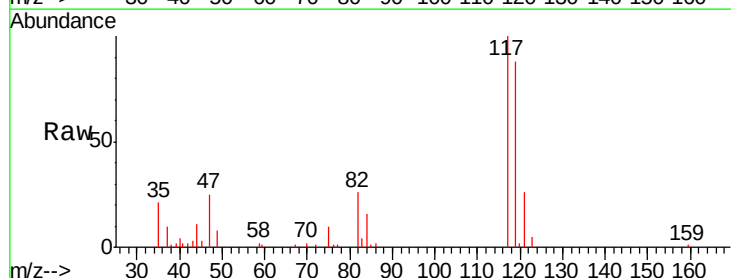
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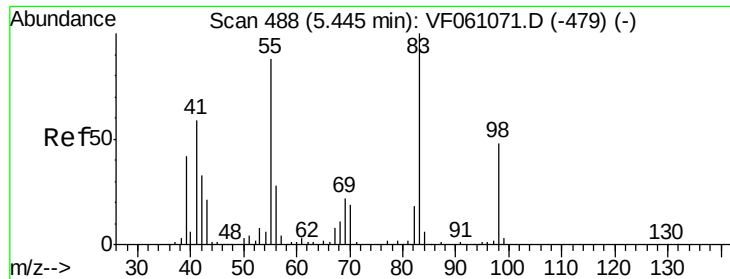
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#38
Carbon Tetrachloride
Concen: 11.050 ug/l
RT: 3.99 min Scan# 340
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.3	82.1	123.1
121	26.1	25.5	38.3





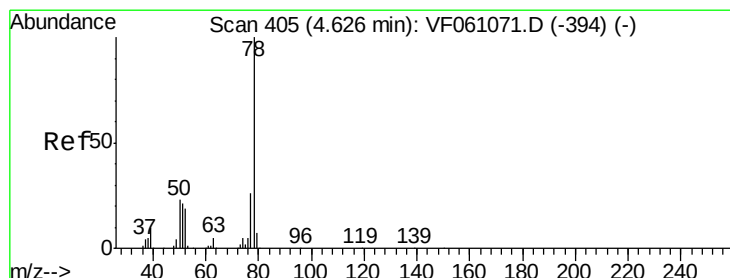
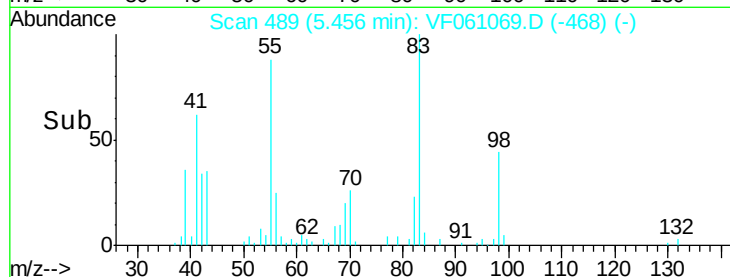
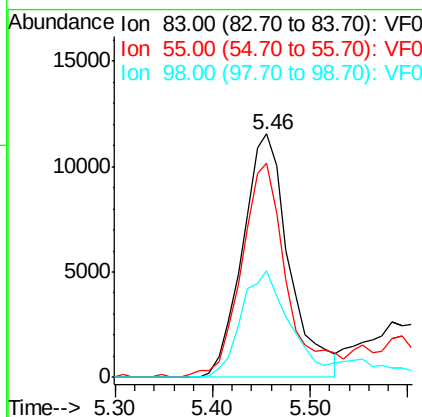
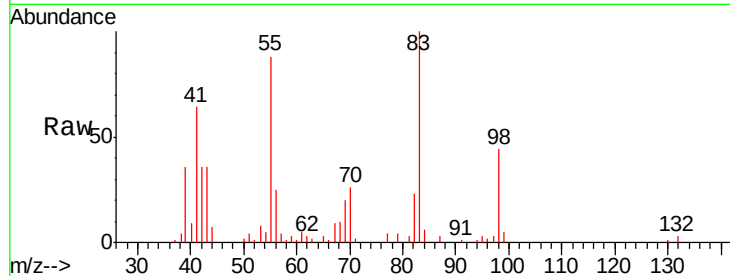
#39
Methylcyclohexane
Concen: 9.823 ug/l m
RT: 5.46 min Scan# 489
Delta R.T. 0.01 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion	Ratio	Lower	Upper
83	100		
55	88.1	70.6	105.8
98	43.6	38.5	57.7

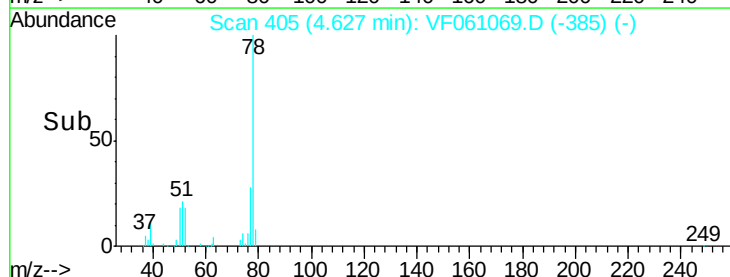
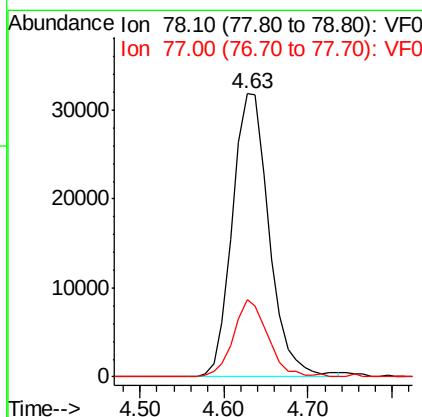
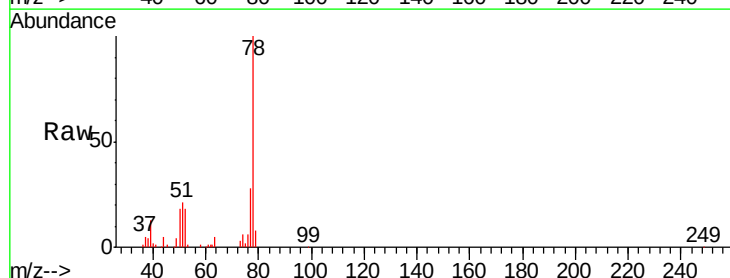
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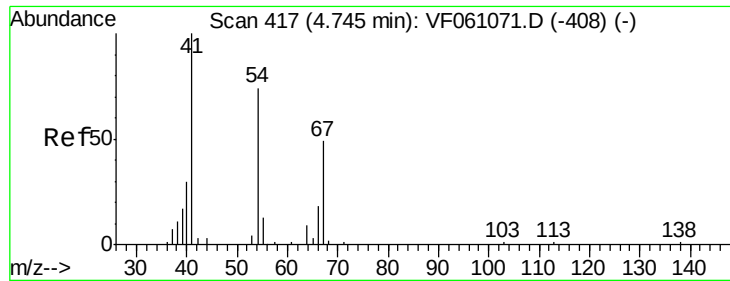
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#40
Benzene
Concen: 11.787 ug/l
RT: 4.63 min Scan# 405
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	27.5	20.7	31.1





#41

Methacrylonitrile

Concen: 10.761 ug/l

RT: 4.74 min Scan# 416

Delta R.T. -0.01 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

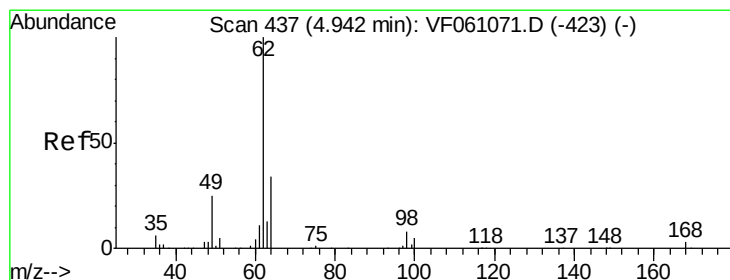
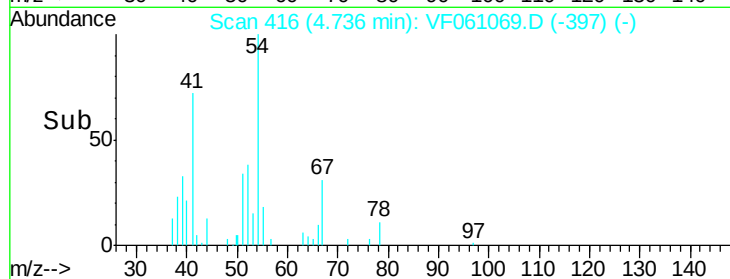
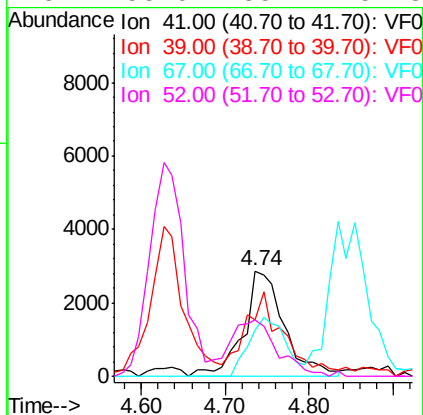
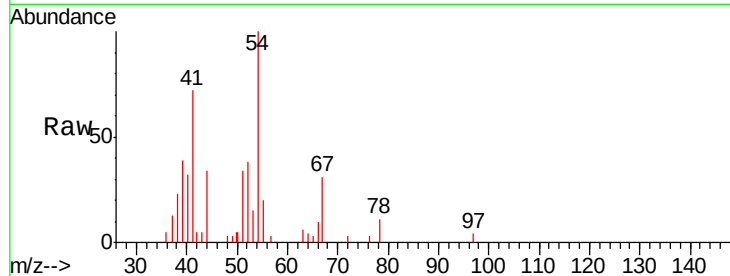
ClientSampleId :

VSTDIC010

Tgt Ion:	41	Resp:	9663
Ion	Ratio	Lower	Upper
41	100		
39	53.7	45.7	68.5
67	43.2	38.9	58.3
52	53.0	35.2	52.8#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 12.196 ug/l

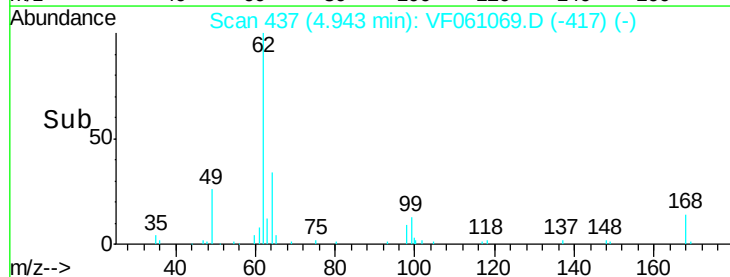
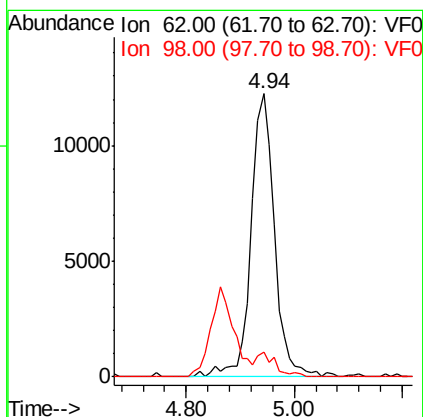
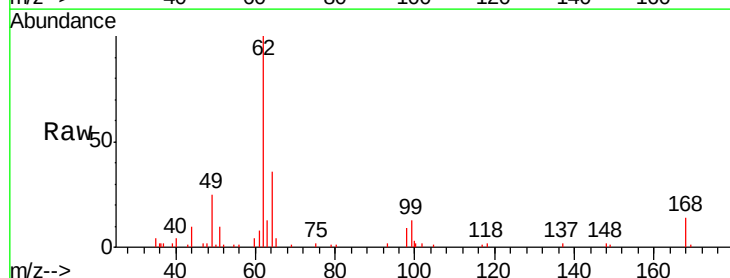
RT: 4.94 min Scan# 437

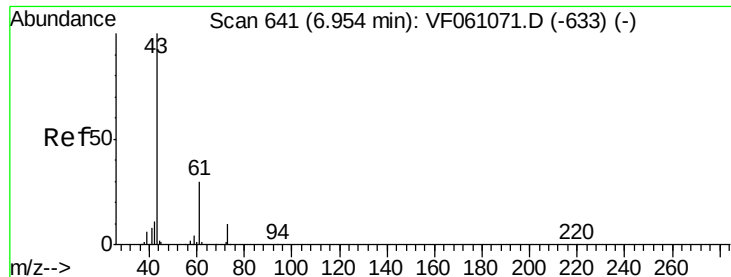
Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion:	62	Resp:	36727
Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	16.6





#43

Isopropyl Acetate

Concen: 10.564 ug/l

RT: 6.95 min Scan# 641

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

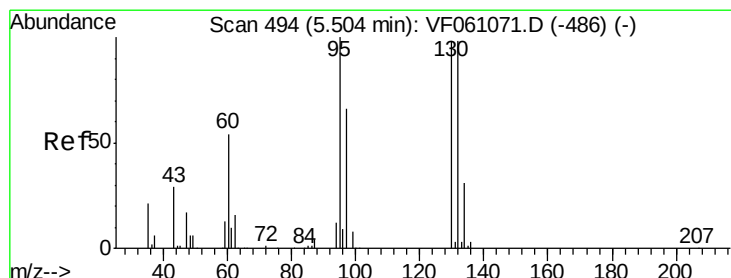
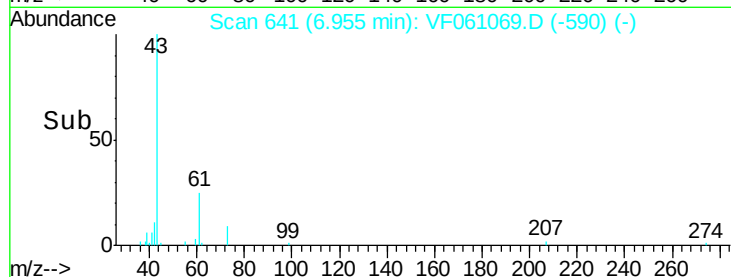
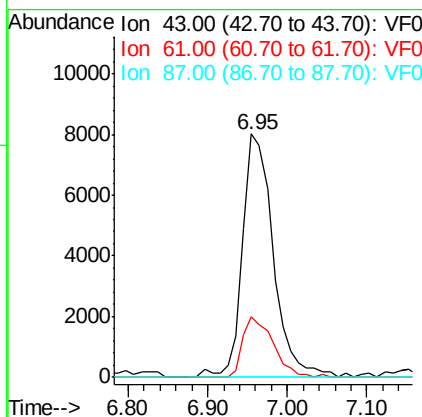
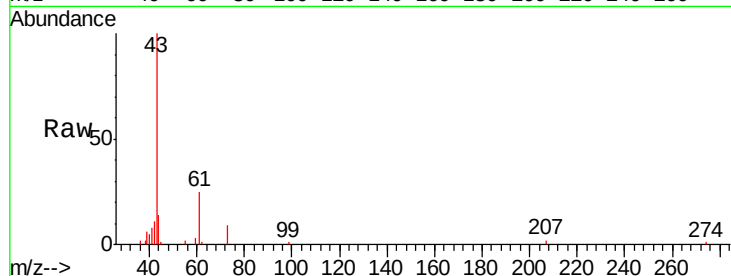
ClientSampleId :

VSTDIC010

Tgt Ion:	43	Resp:	21493
Ion	Ratio	Lower	Upper
43	100		
61	24.7	23.8	35.8
87	0.0	0.0	0.0

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#44

Trichloroethene

Concen: 11.111 ug/l

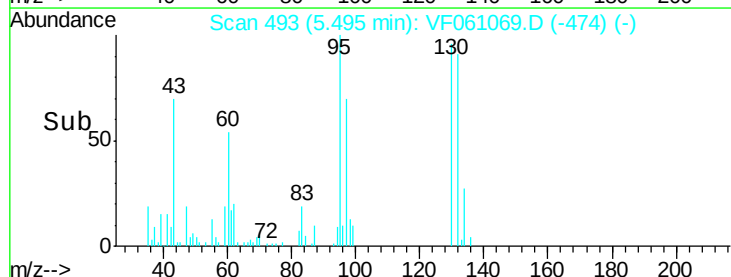
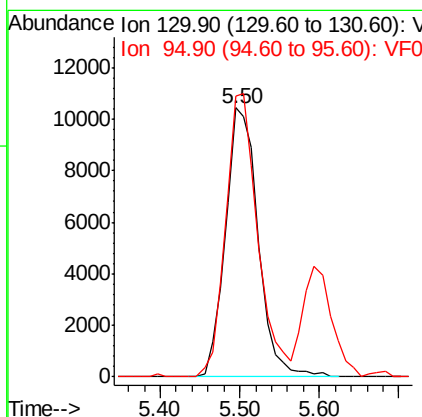
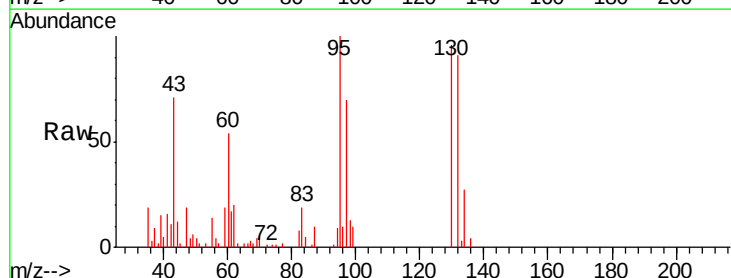
RT: 5.50 min Scan# 493

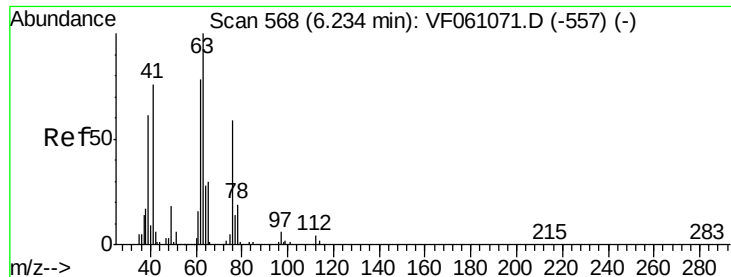
Delta R.T. -0.01 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion:	130	Resp:	29934
Ion	Ratio	Lower	Upper
130	100		
95	104.5	0.0	205.2





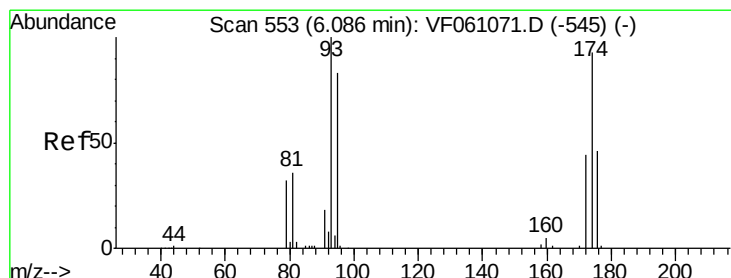
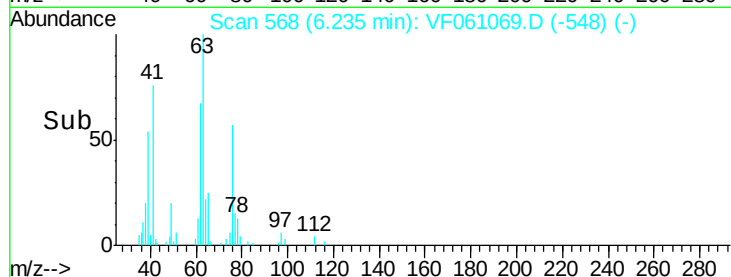
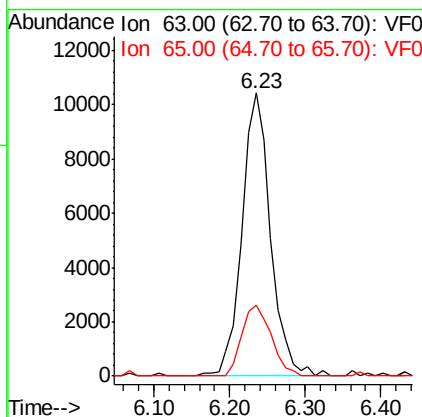
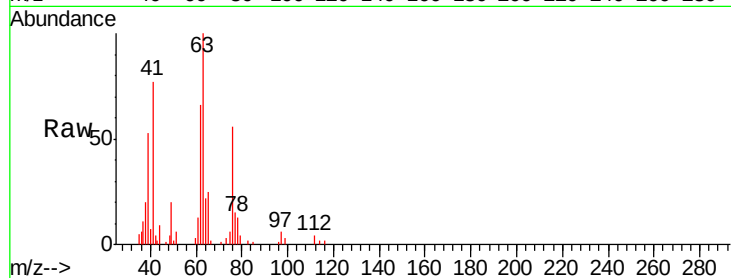
#45
 1,2-Dichloropropane
 Concen: 12.762 ug/l
 RT: 6.23 min Scan# 568
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tgt Ion	Ratio	Lower	Upper
63	100		
65	25.0	24.4	36.6

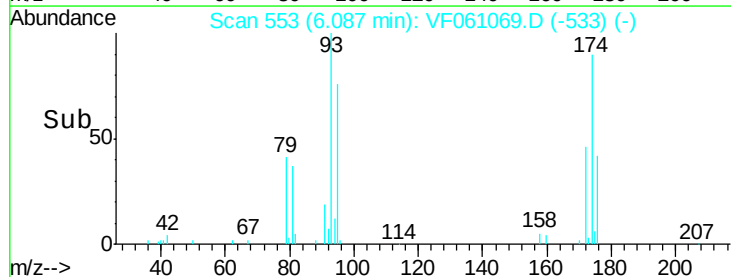
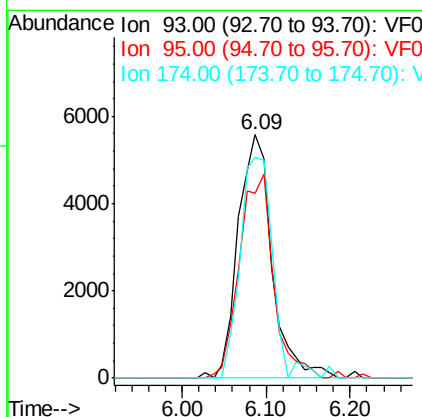
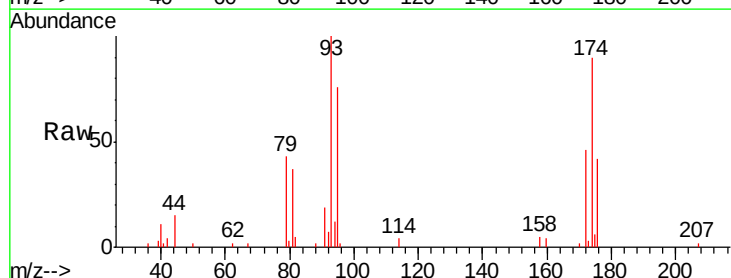
Manual Integrations
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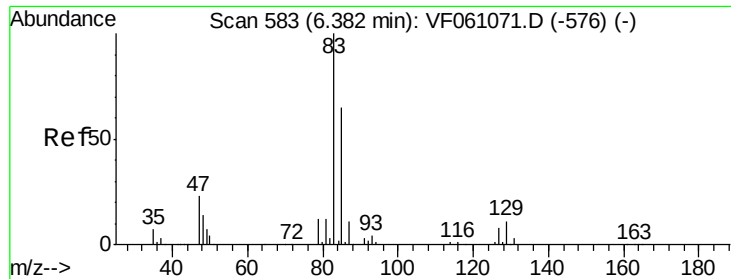
apatel
 12/20/2018 10:28:41 AM



#46
 Dibromomethane
 Concen: 10.856 ug/l
 RT: 6.09 min Scan# 553
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Tgt Ion	Ratio	Lower	Upper
93	100		
95	78.3	66.9	100.3
174	96.0	74.1	111.1





#47

Bromodichloromethane

Concen: 10.580 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.01 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

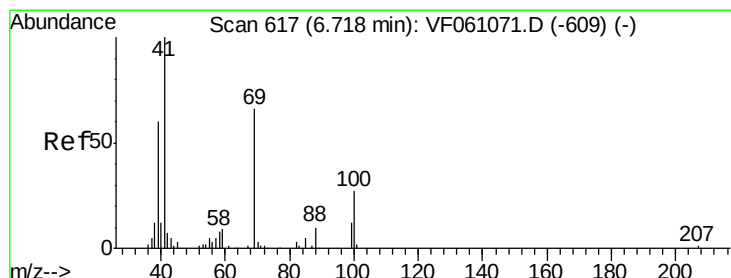
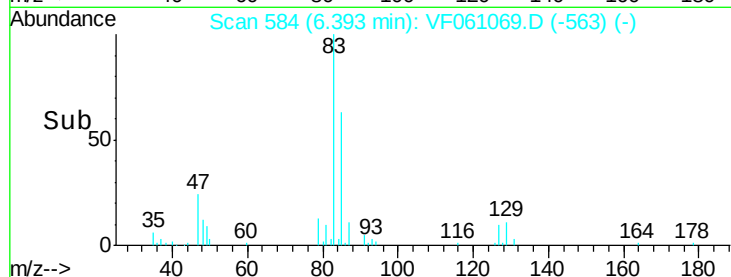
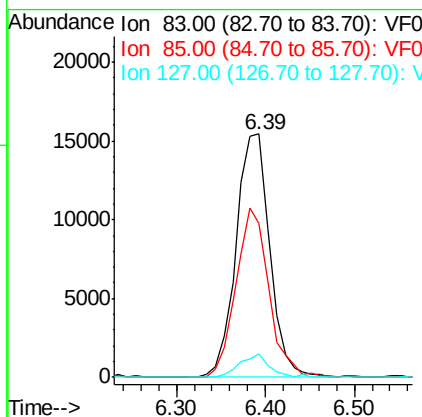
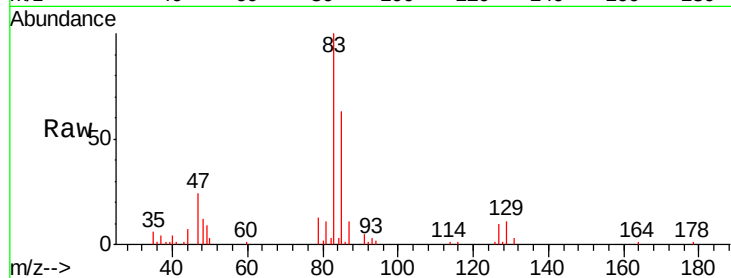
ClientSampleId :

VSTDIC010

Tgt Ion:	83	Resp:	40769
Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.2	78.4
127	9.6	6.1	9.1#

Manual Integrations
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#48

Methyl methacrylate

Concen: 9.867 ug/l

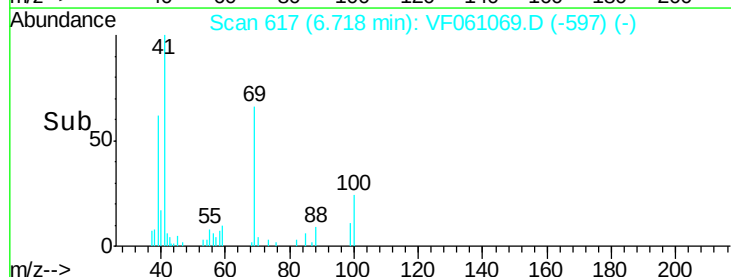
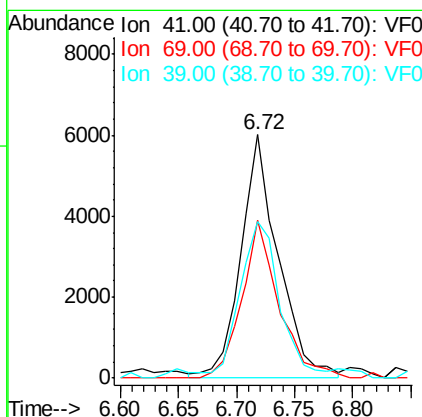
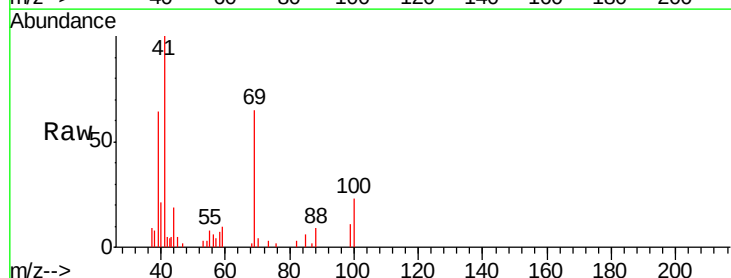
RT: 6.72 min Scan# 617

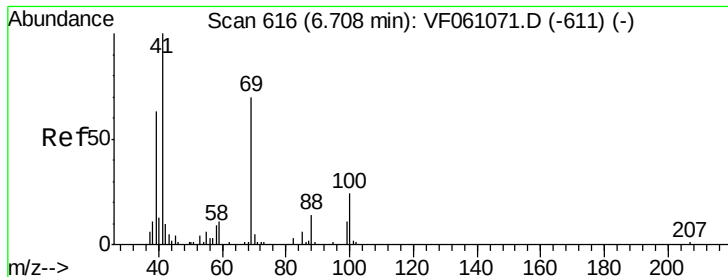
Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion:	41	Resp:	13418
Ion	Ratio	Lower	Upper
41	100		
69	64.9	52.7	79.1
39	64.5	47.8	71.6





#49

1,4-Dioxane

Concen: 162.629 ug/l

RT: 6.71 min Scan# 616

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

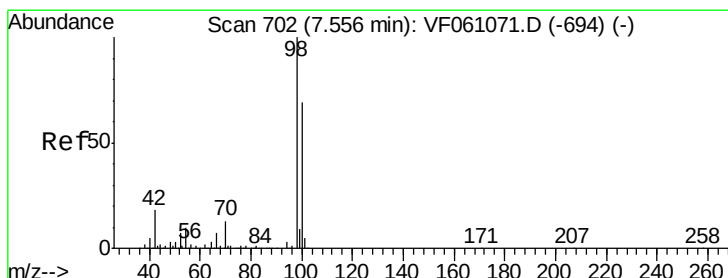
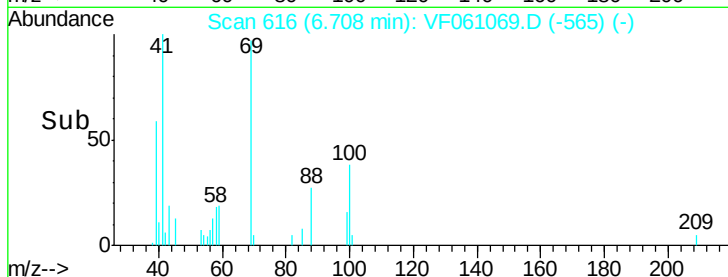
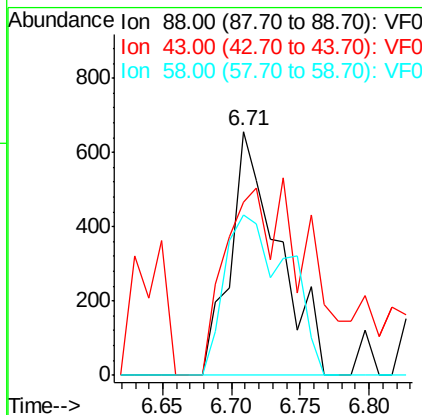
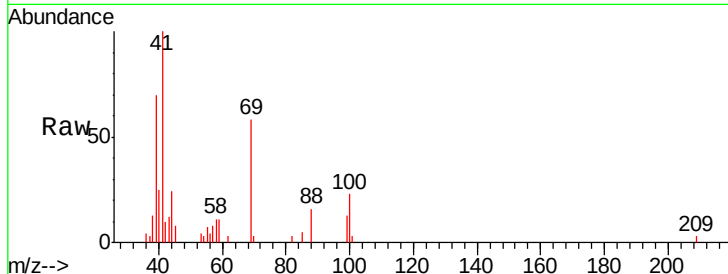
ClientSampleId :

VSTDIC010

Tgt Ion:	88	Resp:	1599
Ion Ratio	Lower	Upper	
88	100		
43	71.3	33.3	49.9#
58	66.0	53.2	79.8

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#50

Toluene-d8

Concen: 10.894 ug/l

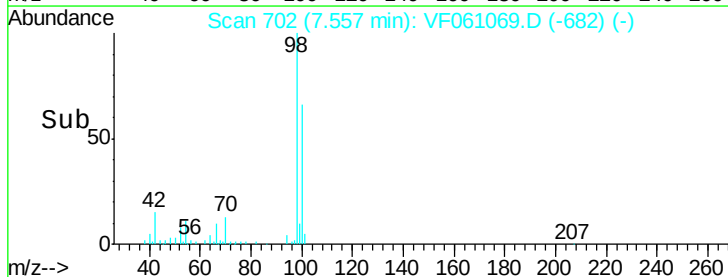
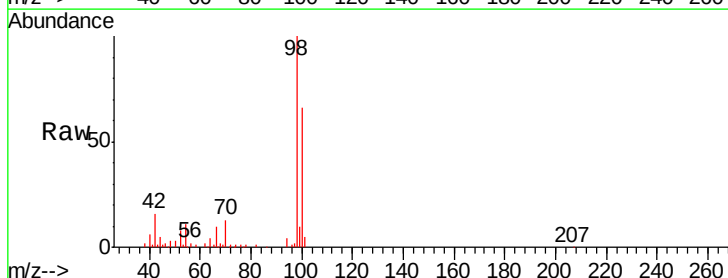
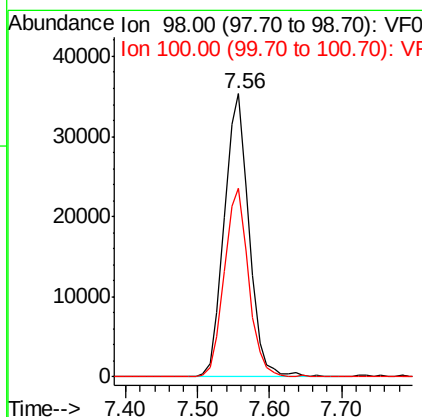
RT: 7.56 min Scan# 702

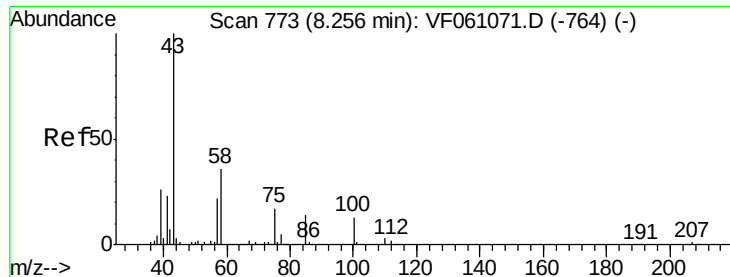
Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion:	98	Resp:	83983
Ion Ratio	Lower	Upper	
98	100		
100	66.5	55.3	82.9





#51

4-Methyl-2-Pentanone

Concen: 52.448 ug/l

RT: 8.26 min Scan# 773

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 72469

Ion Ratio Lower Upper

43 100

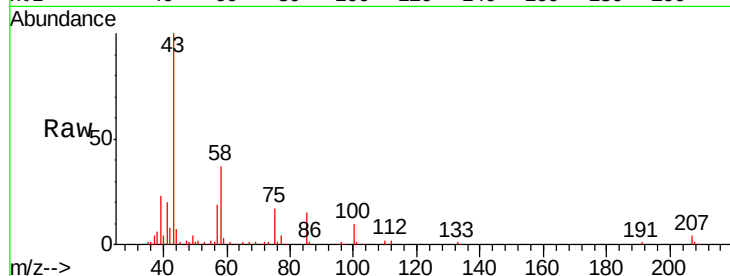
58 36.8 29.1 43.7

Manual Integrations

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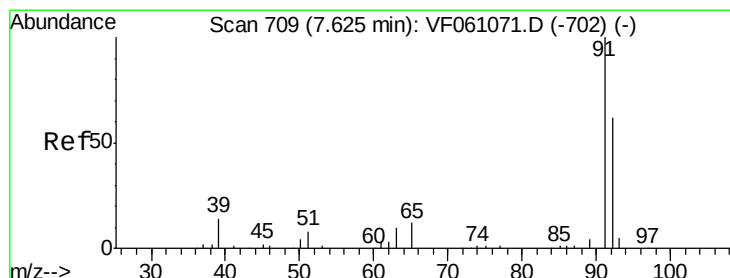
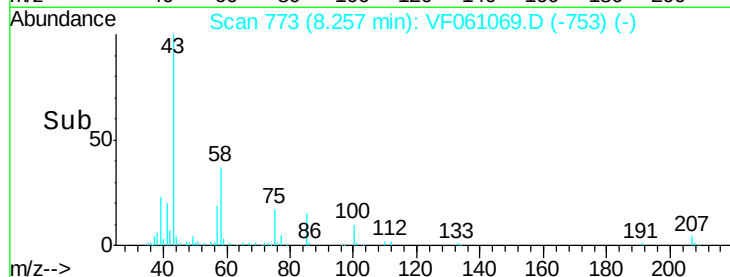
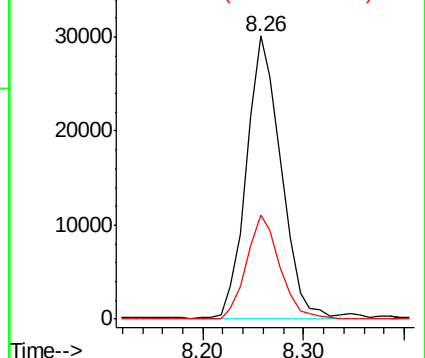
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 10.991 ug/l

RT: 7.63 min Scan# 709

Delta R.T. 0.00 min

Lab File: VF061069.D

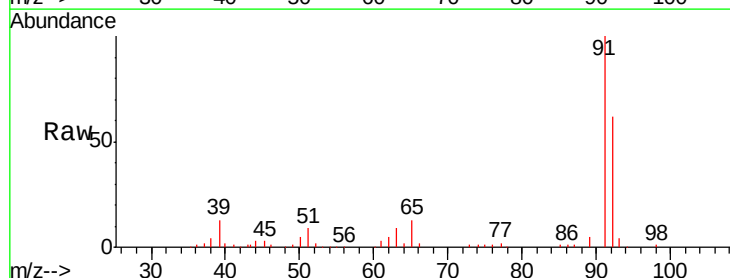
Acq: 18 Dec 2018 18:53

Tgt Ion: 92 Resp: 63564

Ion Ratio Lower Upper

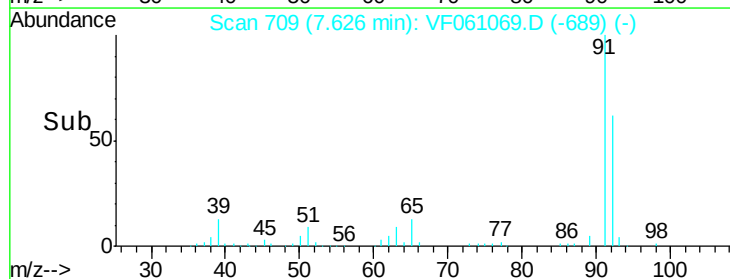
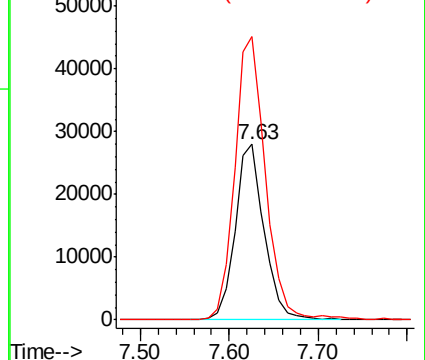
92 100

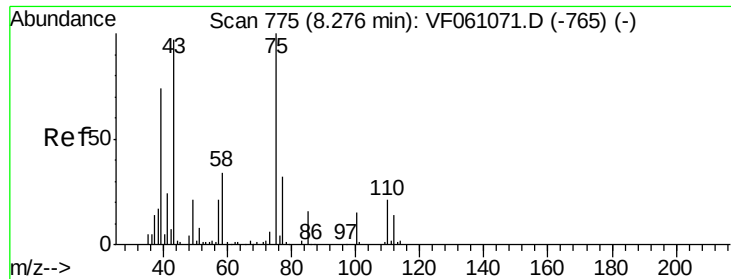
91 161.0 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





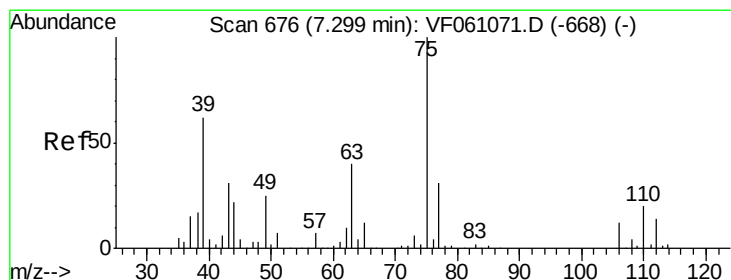
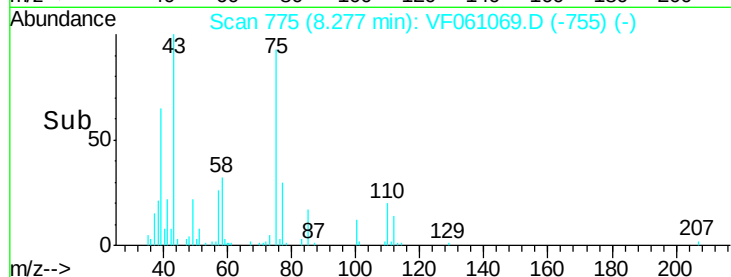
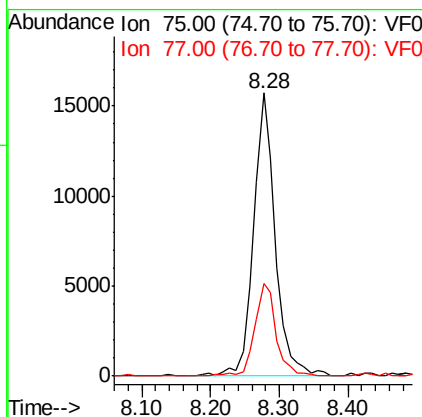
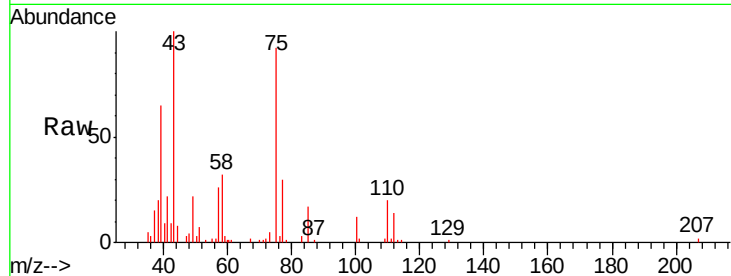
#53
 t-1,3-Dichloropropene
 Concen: 11.066 ug/l
 RT: 8.28 min Scan# 775
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tgt Ion: 75 Resp: 34428
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.8 38.8

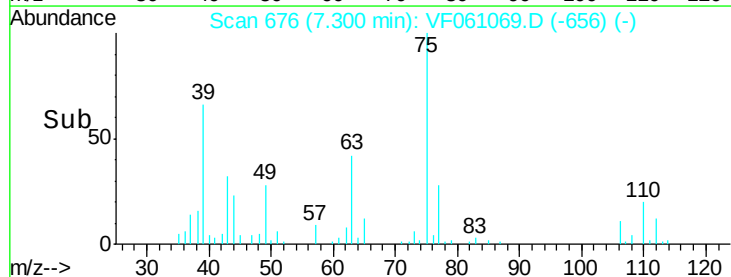
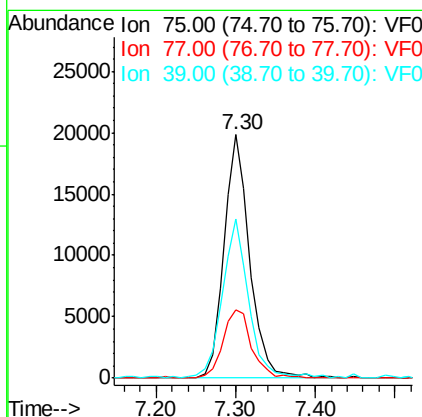
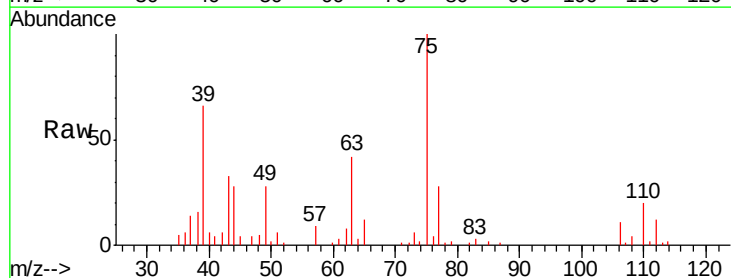
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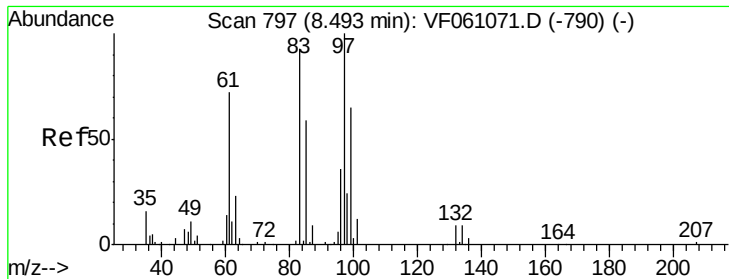
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#54
 cis-1,3-Dichloropropene
 Concen: 11.699 ug/l
 RT: 7.30 min Scan# 676
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Tgt Ion: 75 Resp: 44916
 Ion Ratio Lower Upper
 75 100
 77 28.1 25.0 37.4
 39 65.6 50.1 75.1





#55

1,1,2-Trichloroethane

Concen: 11.185 ug/l

RT: 8.49 min Scan# 797

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

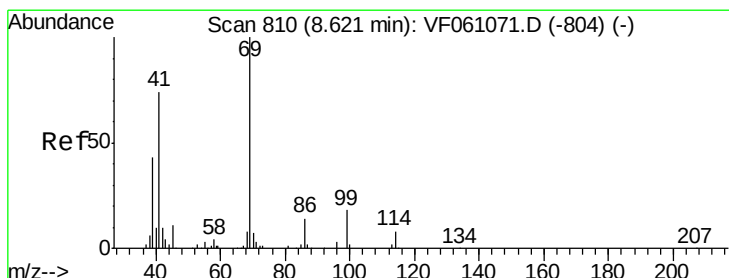
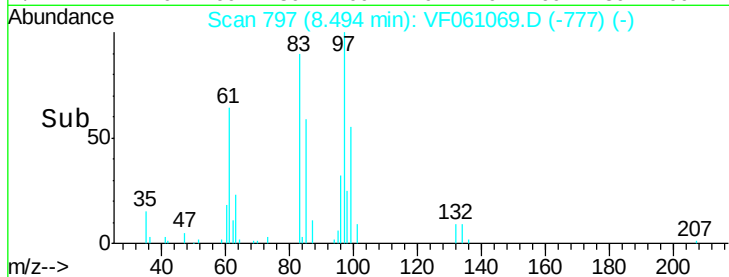
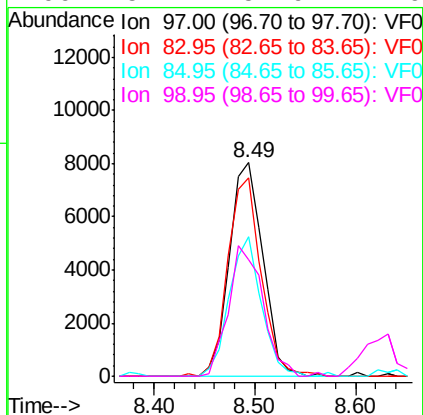
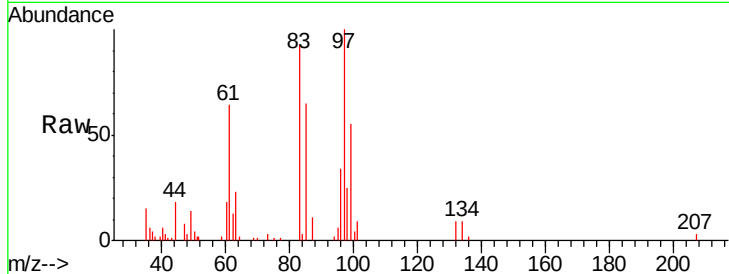
ClientSampleId :

VSTDIC010

Tgt Ion:	97	Resp:	18615
Ion	Ratio	Lower	Upper
97	100		
83	92.8	75.0	112.4
85	65.3	47.5	71.3
99	54.7	51.9	77.9

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#56

Ethyl methacrylate

Concen: 10.815 ug/l

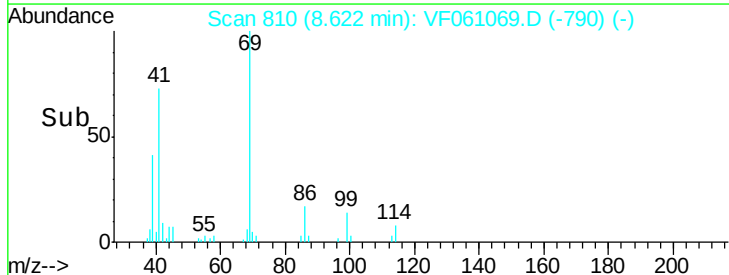
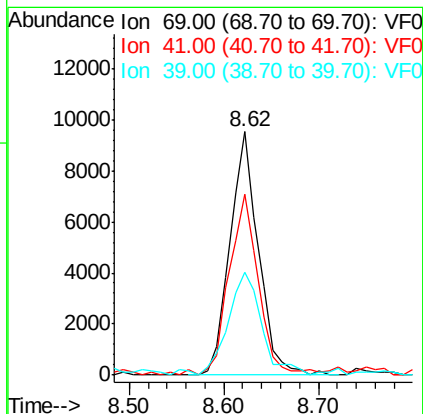
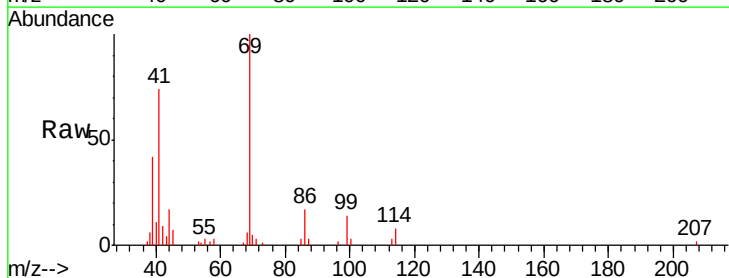
RT: 8.62 min Scan# 810

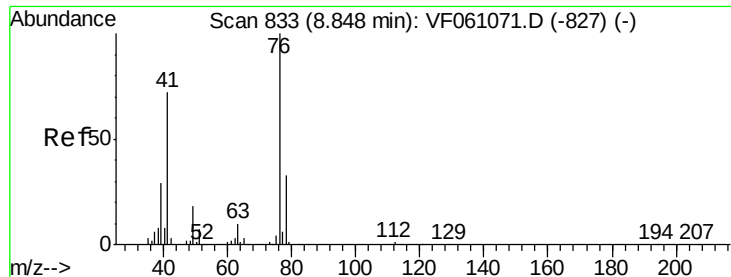
Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion:	69	Resp:	19848
Ion	Ratio	Lower	Upper
69	100		
41	74.4	59.7	89.5
39	42.2	35.0	52.6





#57

1,3-Dichloropropane

Concen: 11.338 ug/l

RT: 8.85 min Scan# 833

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 76 Resp: 33120

Ion Ratio Lower Upper

76 100

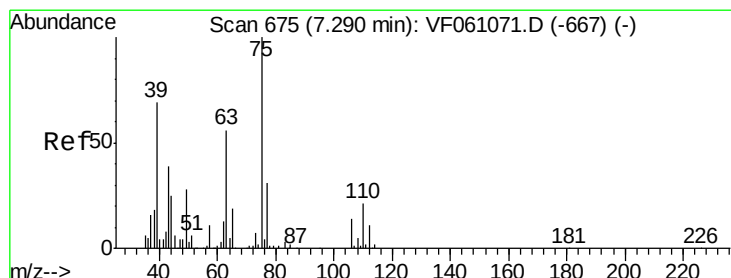
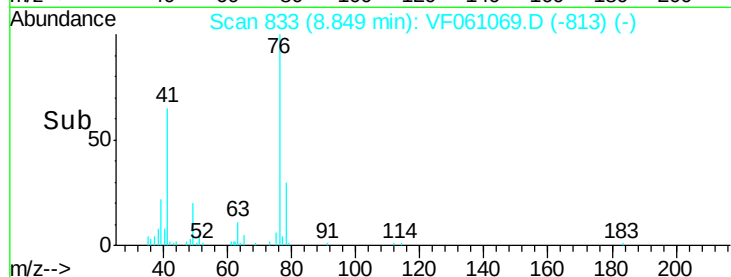
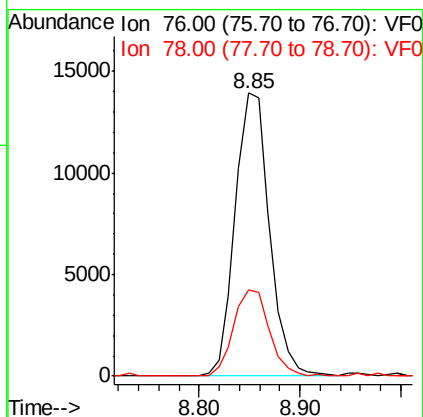
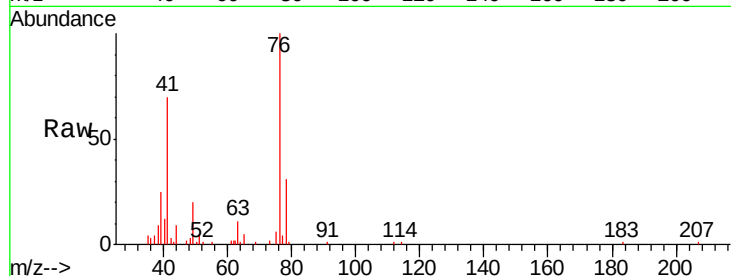
78 30.7 26.5 39.7

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#58

2-Chloroethyl Vinyl ether

Concen: 88.107 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061069.D

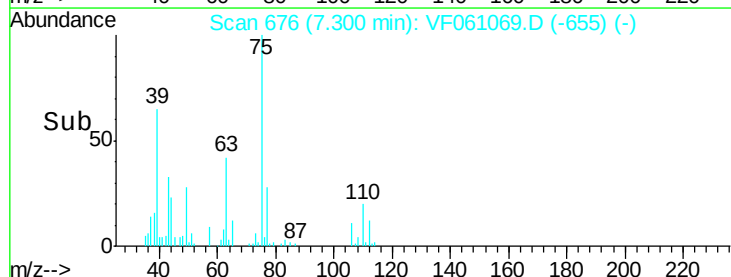
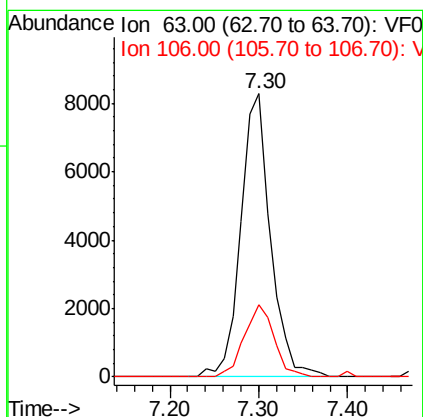
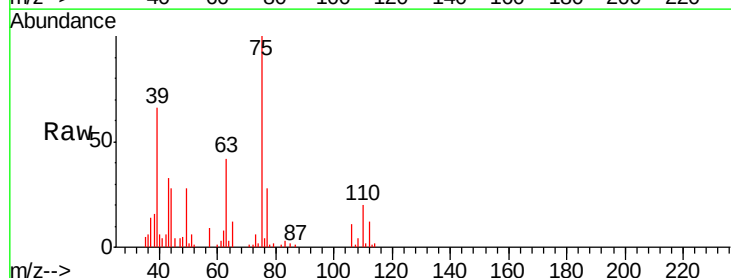
Acq: 18 Dec 2018 18:53

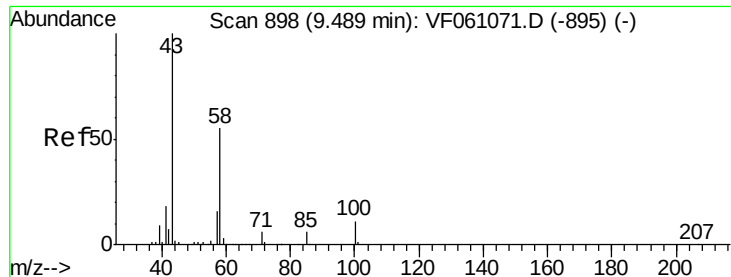
Tgt Ion: 63 Resp: 19144

Ion Ratio Lower Upper

63 100

106 25.3 19.8 29.8





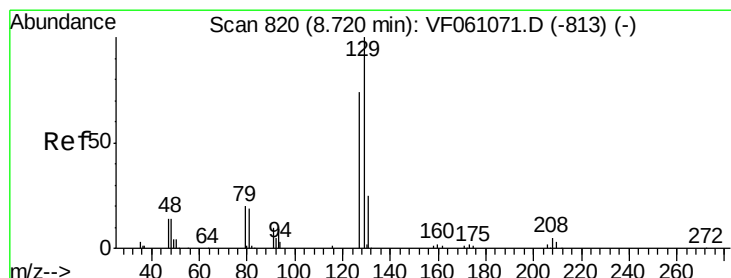
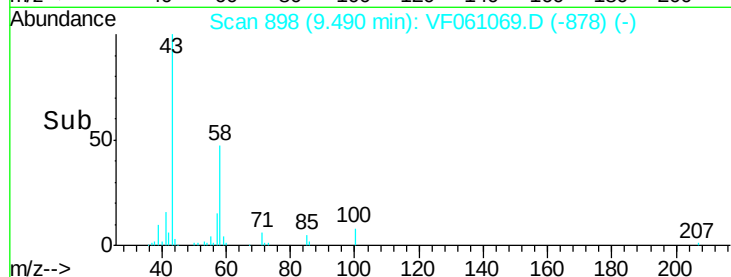
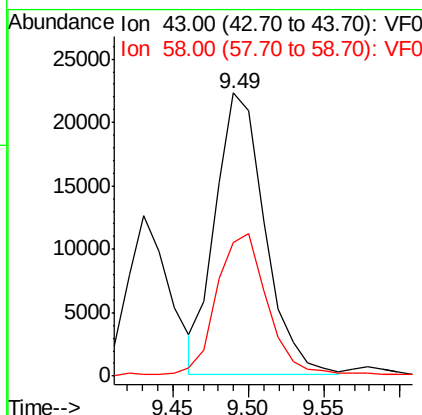
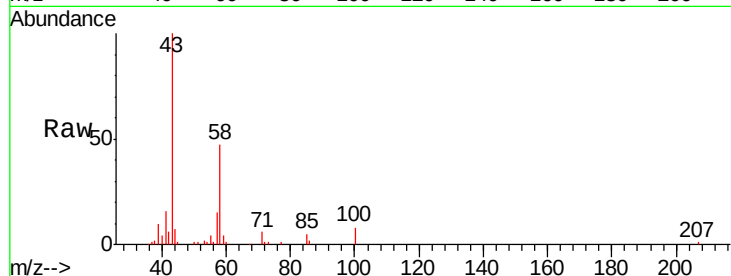
#59
2-Hexanone
Concen: 51.628 ug/l
RT: 9.49 min Scan# 898
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion	Ratio	Lower	Upper
43	100		
58	47.2	25.1	75.2

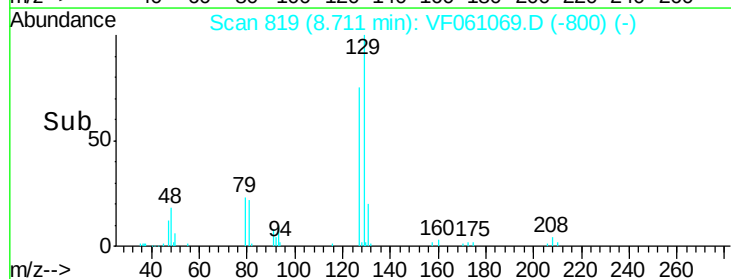
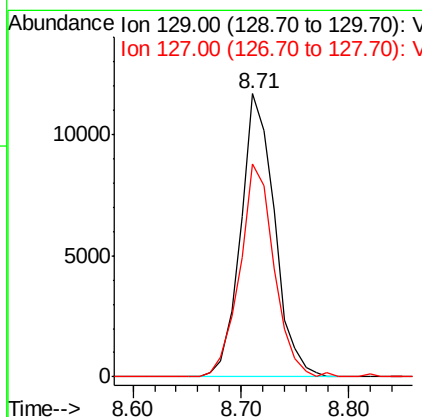
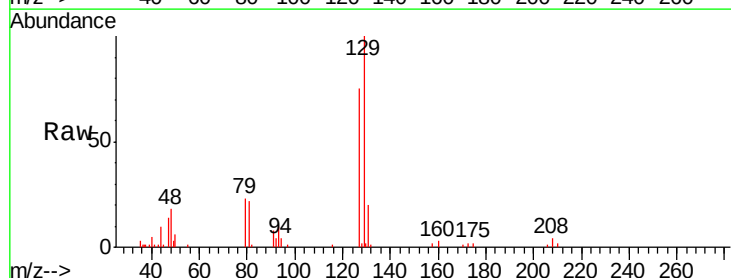
Manual Integrations
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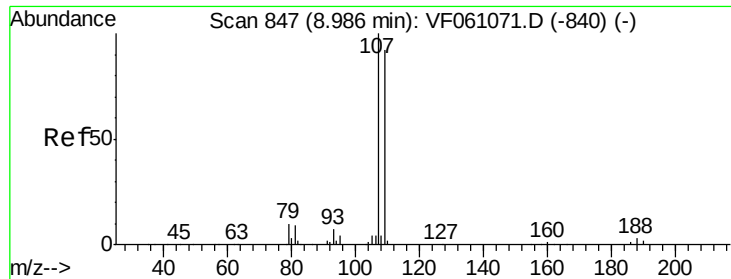
apatel
12/20/2018 10:28:41 AM



#60
Dibromochloromethane
Concen: 10.235 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.01 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.3	36.8	110.3





#61

1,2-Dibromoethane

Concen: 11.183 ug/l

RT: 8.99 min Scan# 847

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 107 Resp: 20230

Ion Ratio Lower Upper

107 100

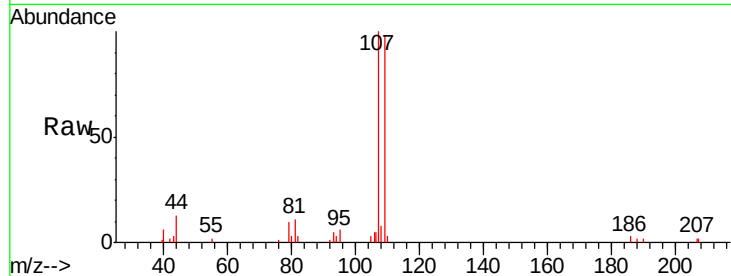
109 97.9 73.7 110.5

Manual Integrations

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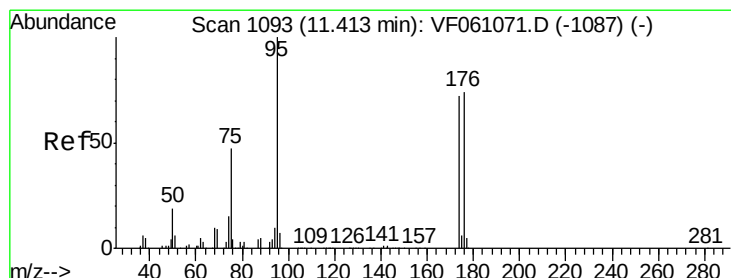
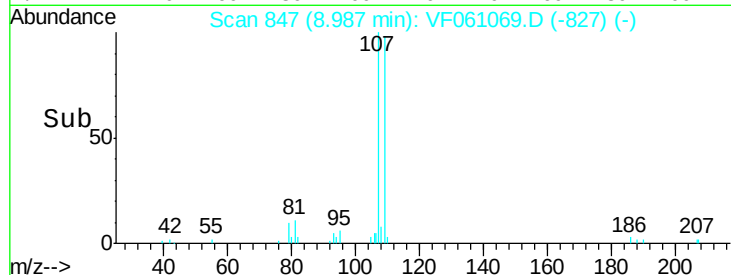


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.99

Time-->



#62

4-Bromofluorobenzene

Concen: 11.192 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

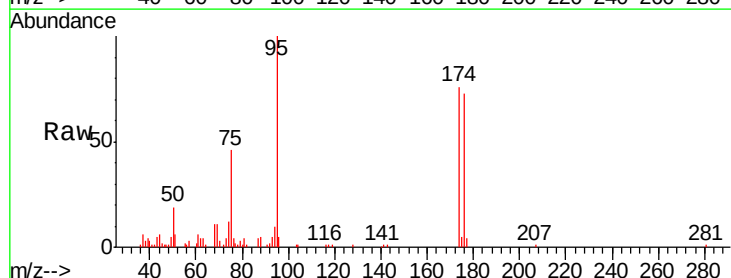
Tgt Ion: 95 Resp: 39080

Ion Ratio Lower Upper

95 100

174 76.5 0.0 143.8

176 73.5 0.0 147.6



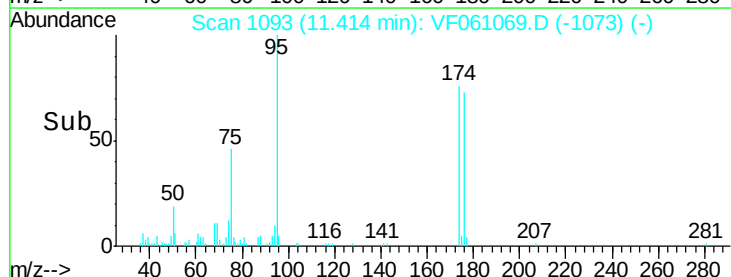
Abundance Ion 95.00 (94.70 to 95.70): VF0

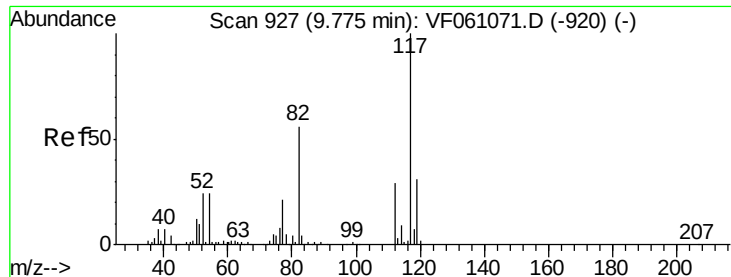
Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.41

Time-->





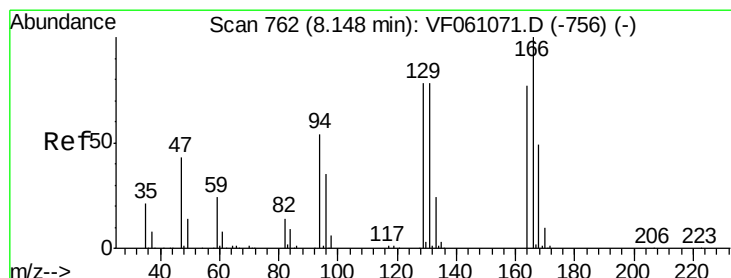
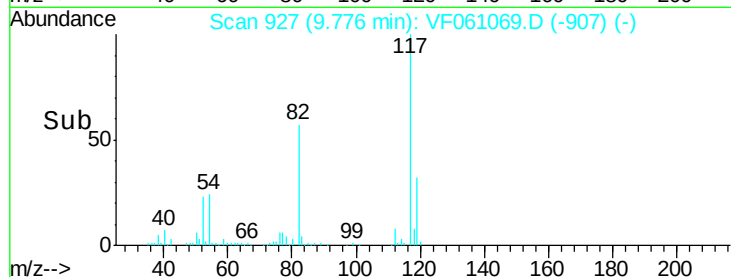
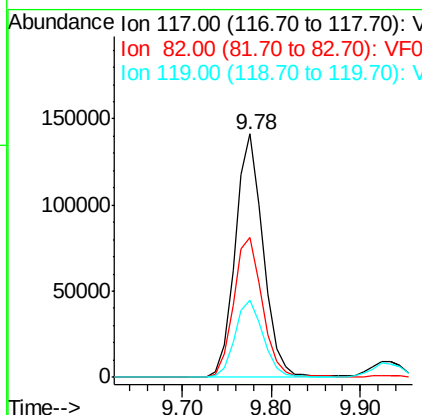
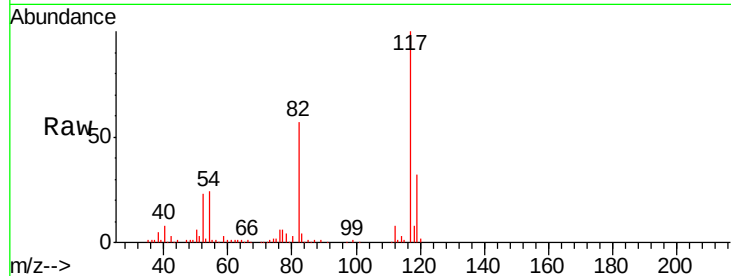
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	309077		
82	57.3	45.0	67.4	
119	31.7	24.8	37.2	

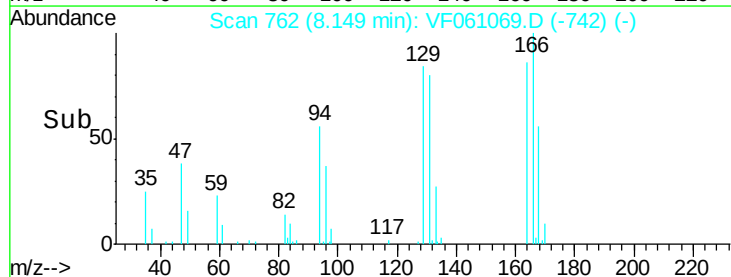
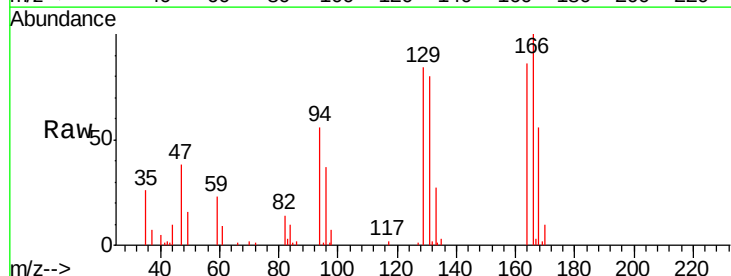
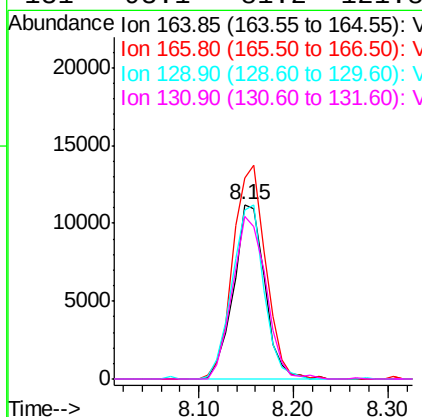
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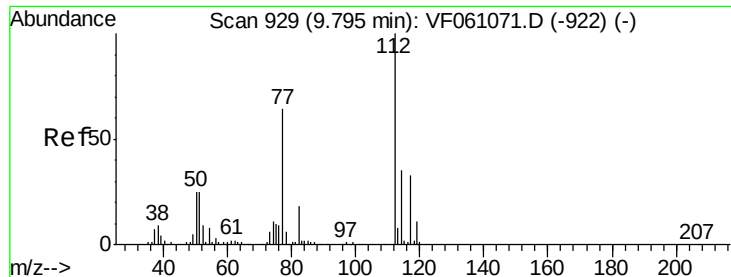
apatel
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#64
Tetrachloroethene
Concen: 10.828 ug/l
RT: 8.15 min Scan# 762
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	25652		
166	115.7	104.0	156.0	
129	97.1	81.1	121.7	
131	93.1	81.2	121.8	





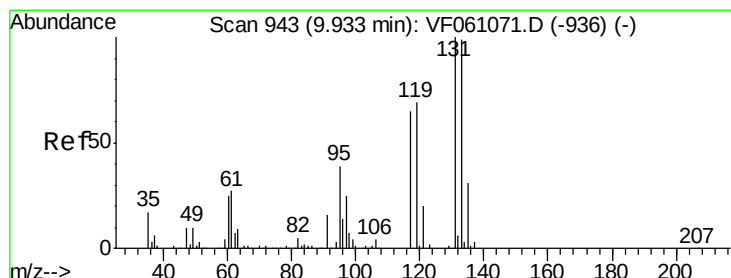
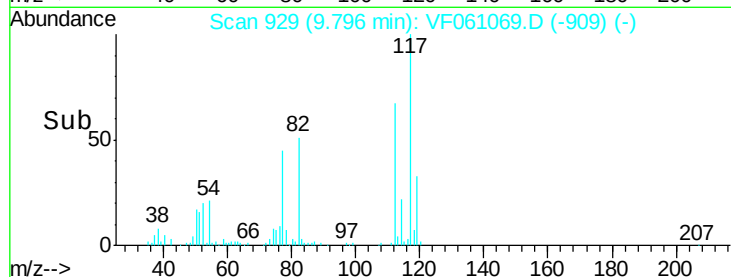
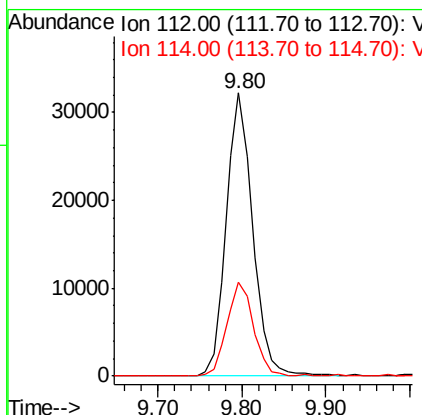
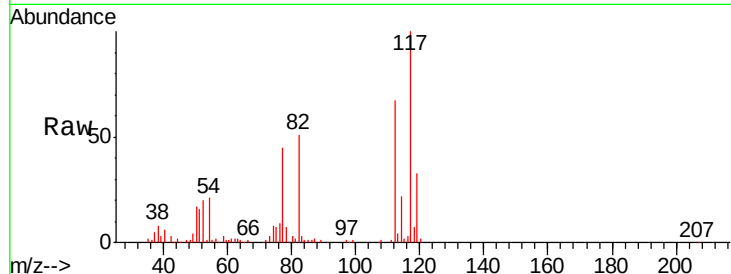
#65
Chlorobenzene
Concen: 11.805 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion:112 Resp: 70487
Ion Ratio Lower Upper
112 100
114 33.4 27.8 41.6

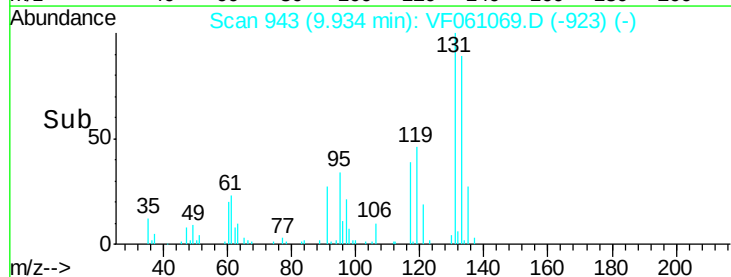
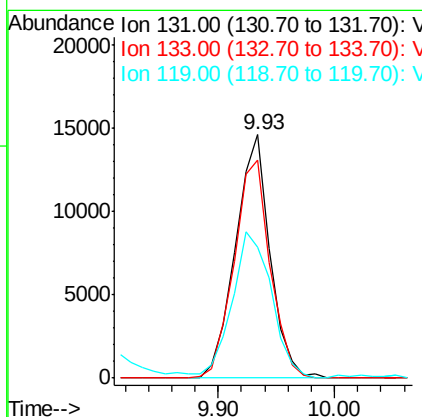
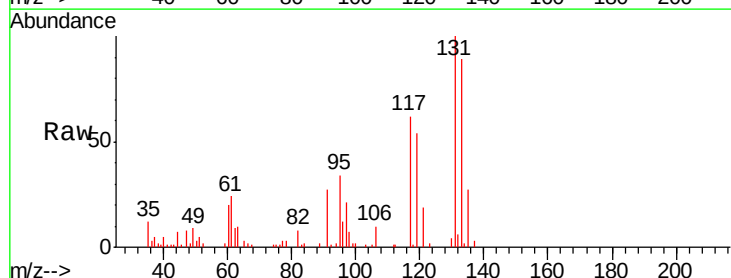
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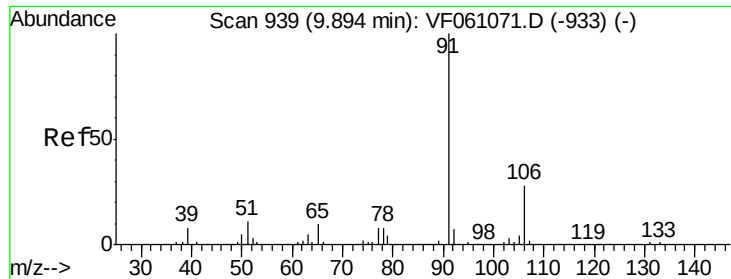
apatel
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#66
1,1,1,2-Tetrachloroethane
Concen: 11.747 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion:131 Resp: 30046
Ion Ratio Lower Upper
131 100
133 89.4 49.5 148.7
119 54.1 34.5 103.5





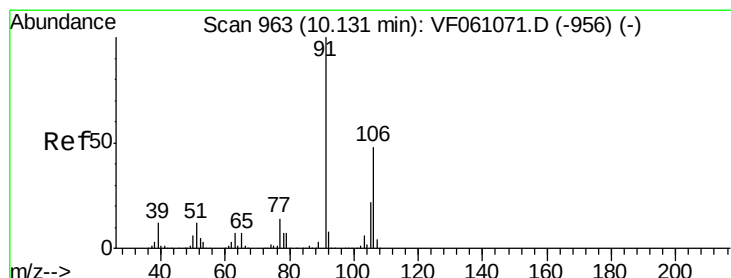
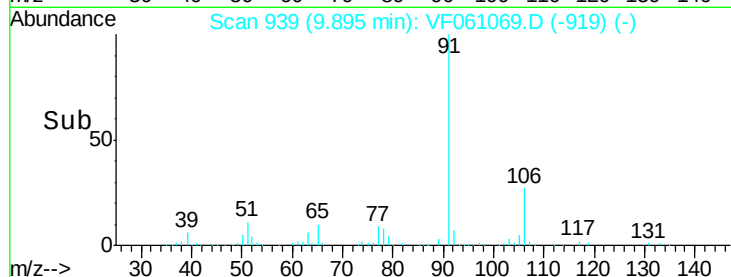
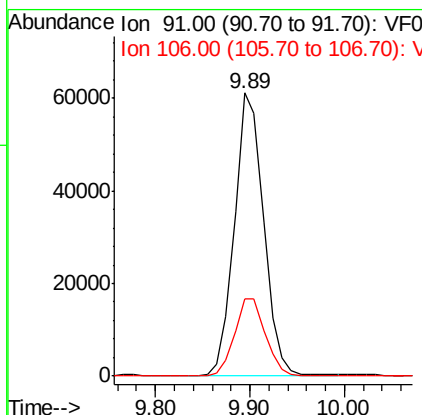
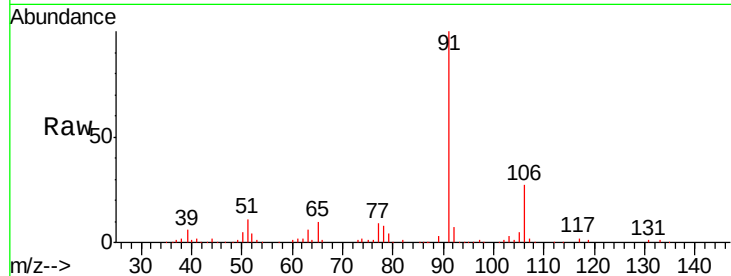
#67
Ethyl Benzene
Concen: 11.773 ug/l
RT: 9.89 min Scan# 939
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion: 91 Resp: 131221
Ion Ratio Lower Upper
91 100
106 27.1 22.5 33.7

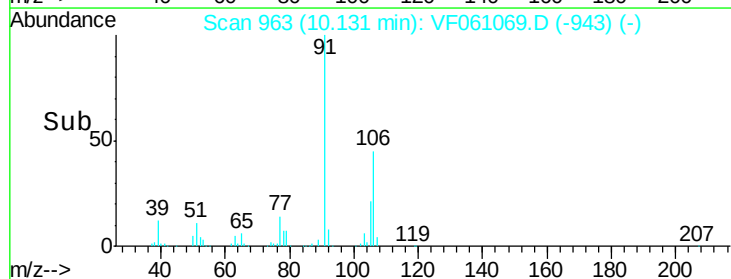
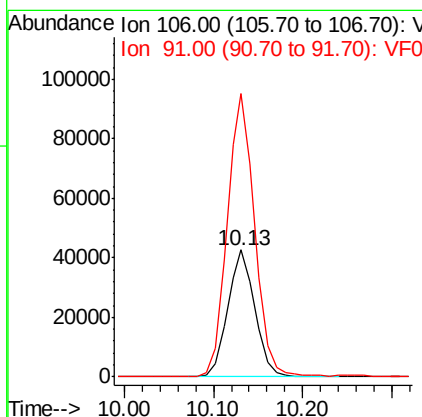
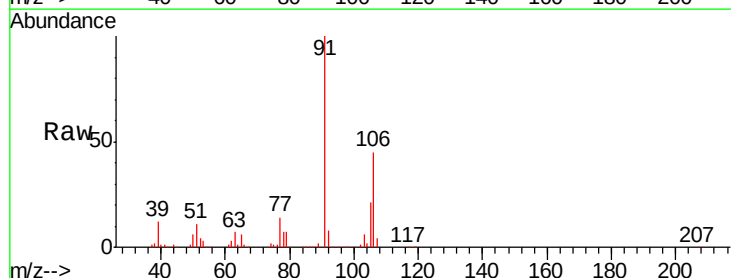
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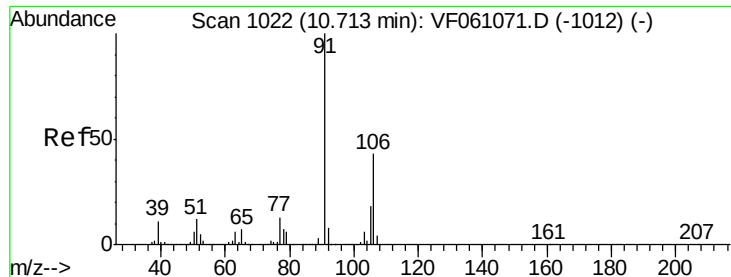
apatel
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#68
m/p-Xylenes
Concen: 22.654 ug/l
RT: 10.13 min Scan# 963
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion: 106 Resp: 91131
Ion Ratio Lower Upper
106 100
91 223.4 168.2 252.2





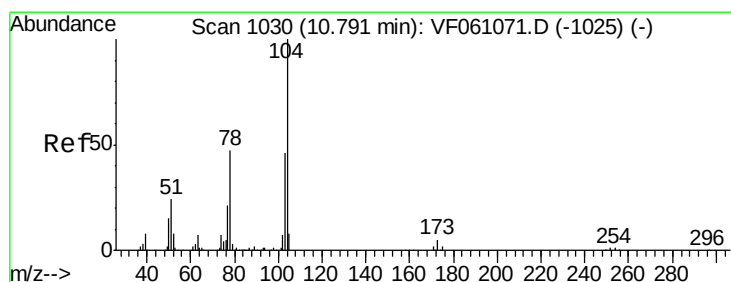
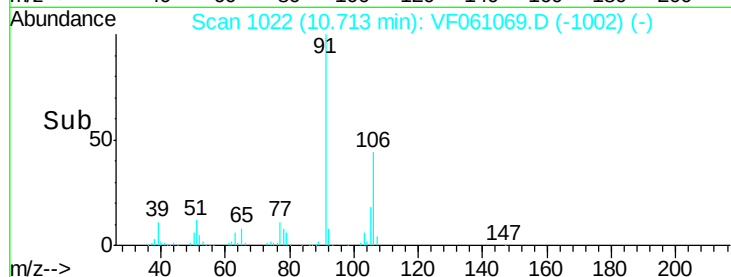
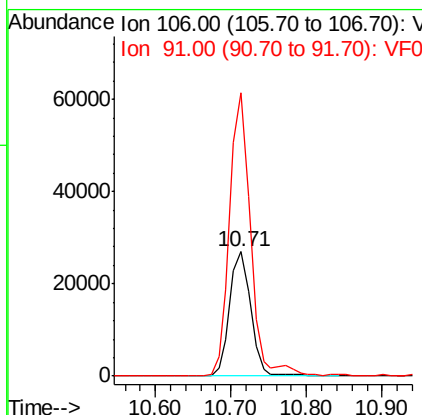
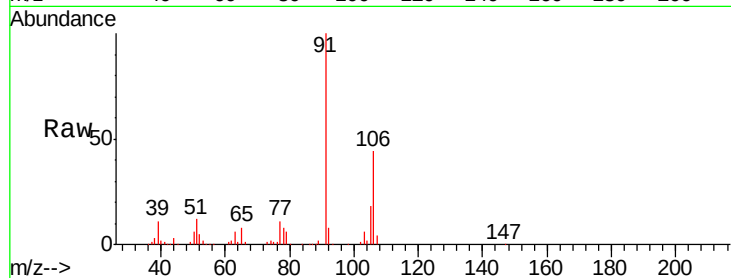
#69
o-Xylene
Concen: 11.819 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion:106 Resp: 52330
Ion Ratio Lower Upper
106 100
91 227.6 115.9 347.7

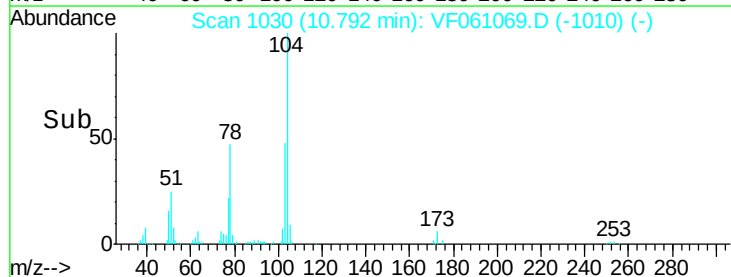
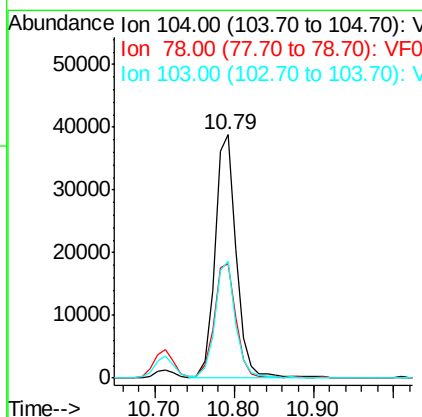
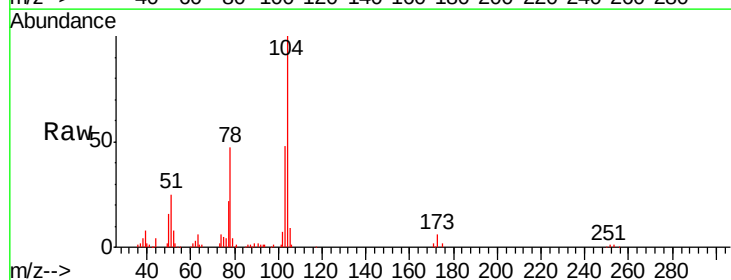
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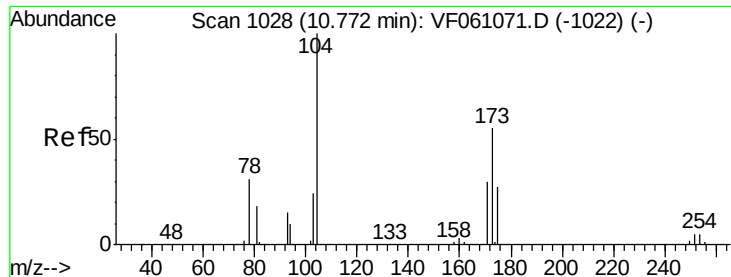
apatel
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#70
Styrene
Concen: 12.091 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion:104 Resp: 73686
Ion Ratio Lower Upper
104 100
78 47.1 38.4 57.6
103 47.8 37.0 55.6





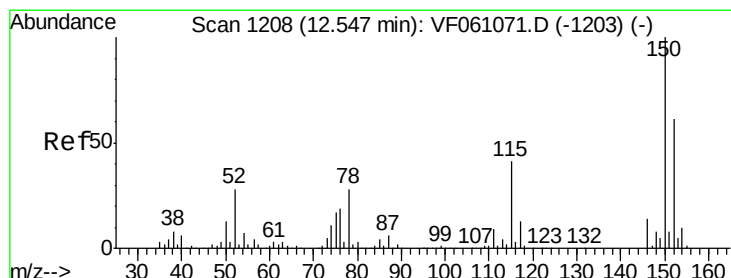
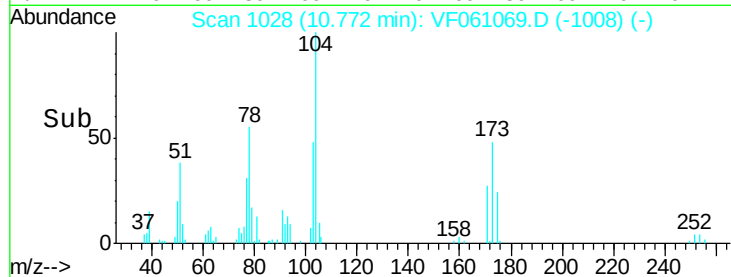
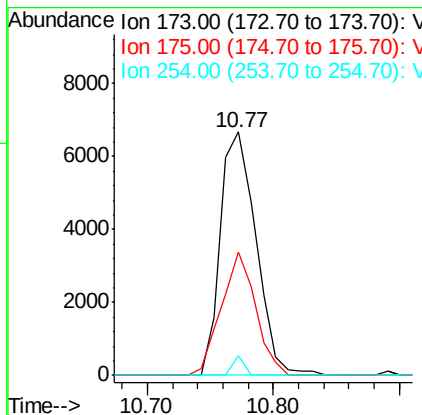
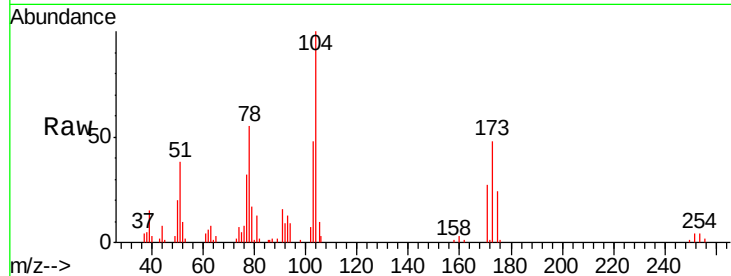
#71
Bromoform
Concen: 10.640 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion:173 Resp: 13080
Ion Ratio Lower Upper
173 100
175 50.4 24.8 74.4
254 7.8 0.0 0.0#

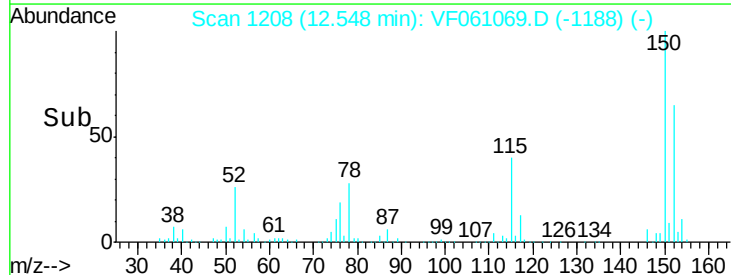
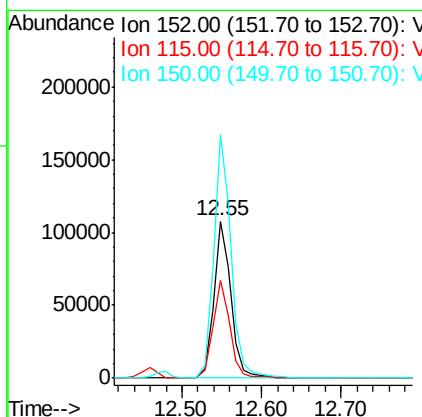
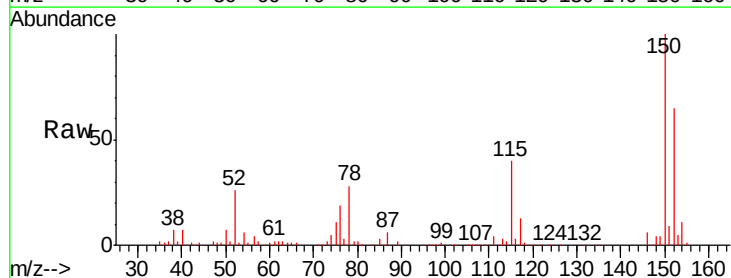
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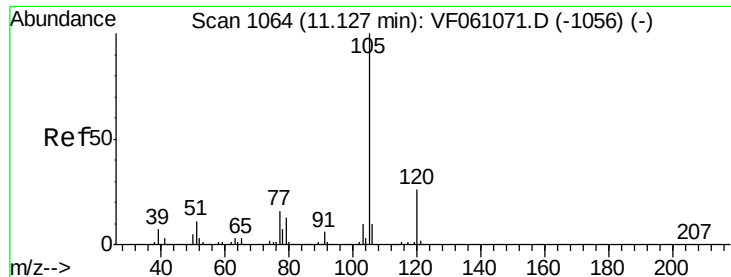
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion:152 Resp: 162602
Ion Ratio Lower Upper
152 100
115 61.9 33.3 99.9
150 154.9 0.0 328.2





#73

Isopropylbenzene

Concen: 11.390 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 105 Resp: 148299

Ion Ratio Lower Upper

105 100

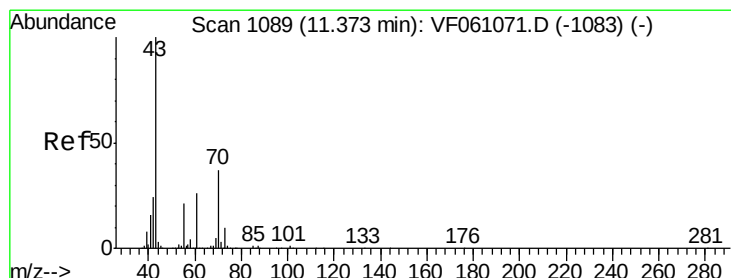
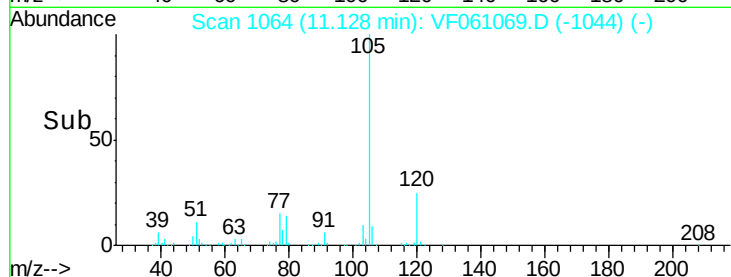
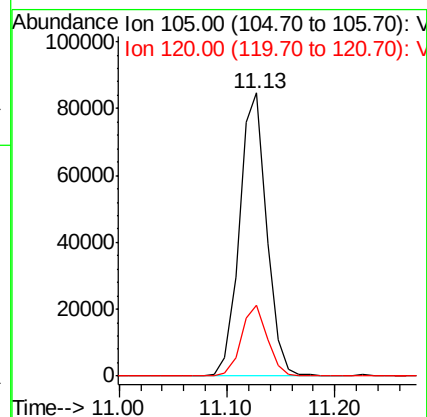
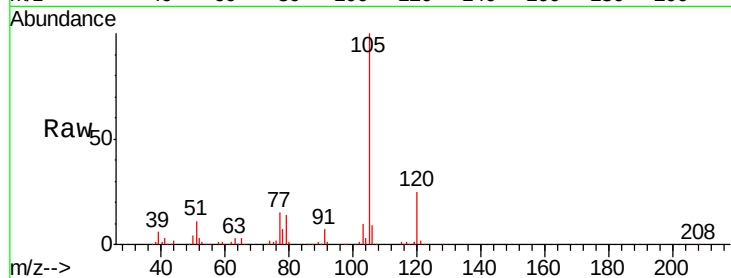
120 24.9 13.0 39.0

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#74

N-ethyl acetate

Concen: 11.225 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion: 43 Resp: 33402

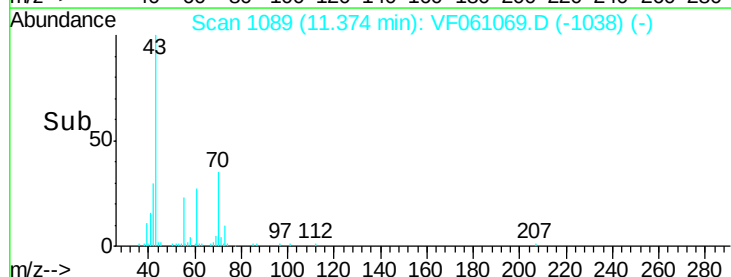
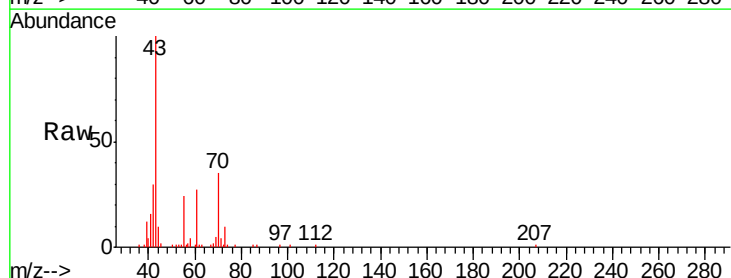
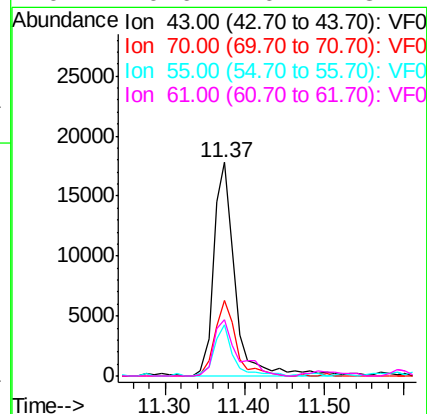
Ion Ratio Lower Upper

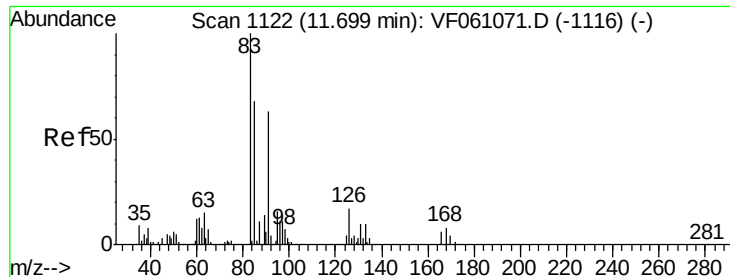
43 100

70 35.2 29.2 43.8

55 24.3 16.5 24.7

61 26.6 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 12.434 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 83 Resp: 26550
Ion Ratio Lower Upper

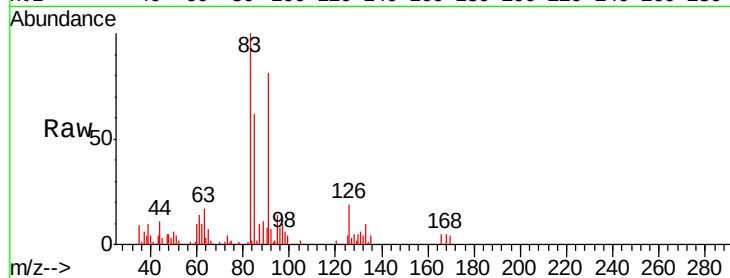
83 100

131 6.5 4.8 14.3

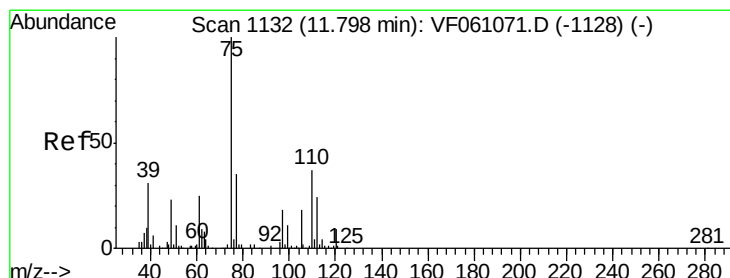
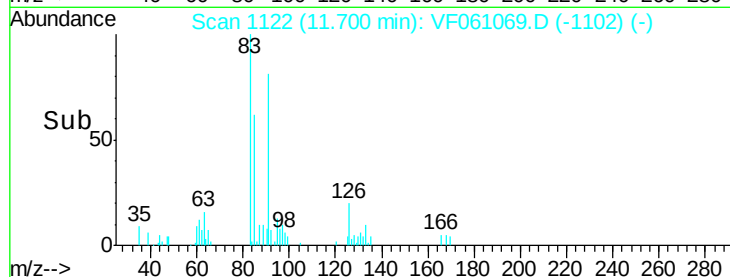
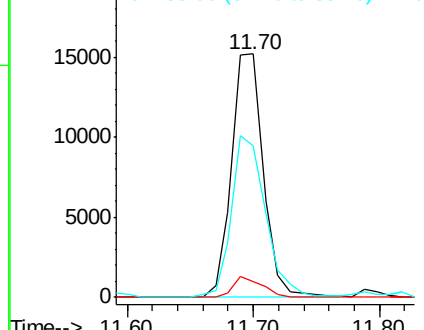
85 62.0 33.9 101.6

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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 11.944 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. 0.00 min

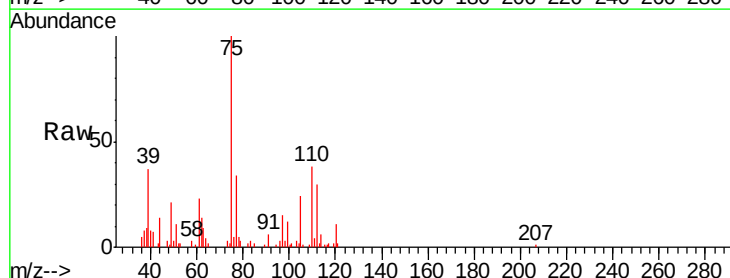
Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

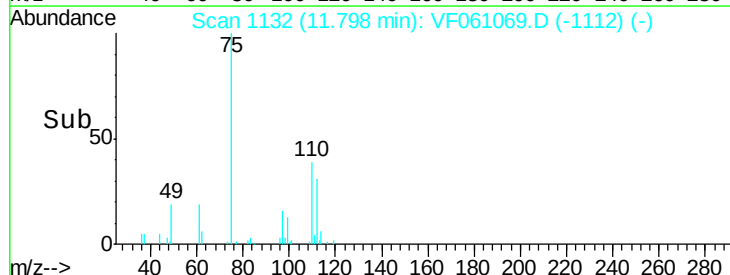
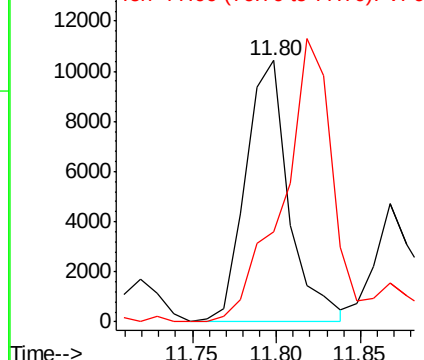
Tgt Ion: 75 Resp: 18678
Ion Ratio Lower Upper

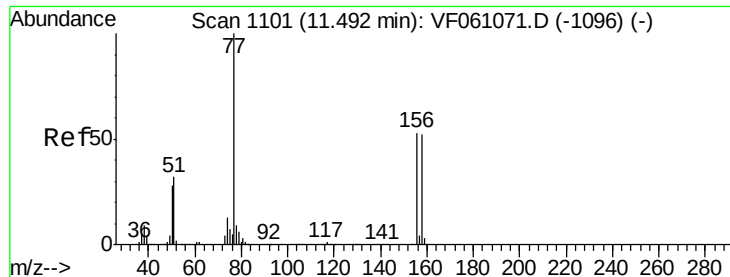
75 100

77 34.4 17.6 52.9



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 11.101 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 156 Resp: 31266

Ion Ratio Lower Upper

156 100

77 170.7 93.8 281.4

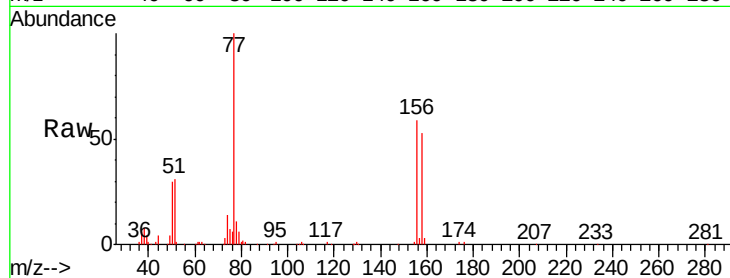
158 89.7 48.9 146.8

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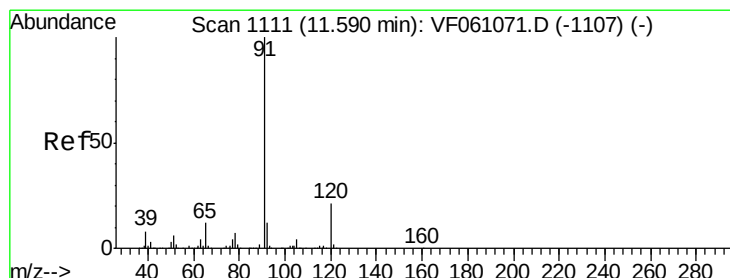
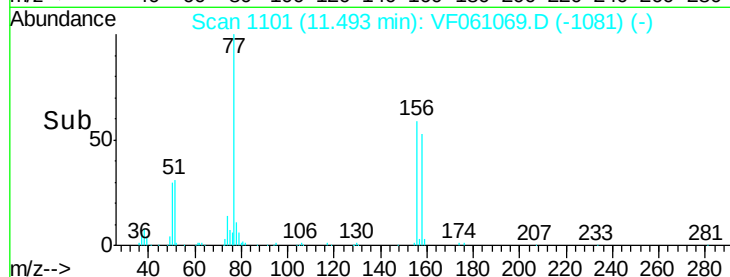
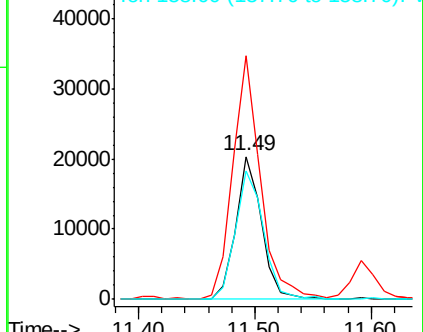
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 12.371 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VF061069.D

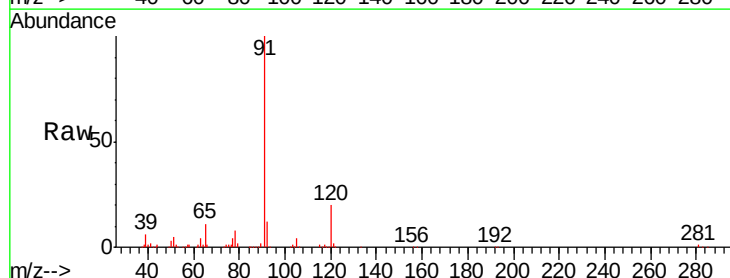
Acq: 18 Dec 2018 18:53

Tgt Ion: 91 Resp: 188742

Ion Ratio Lower Upper

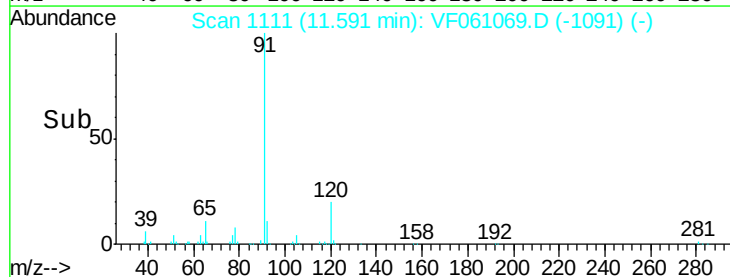
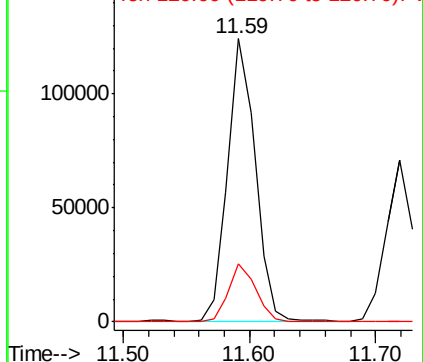
91 100

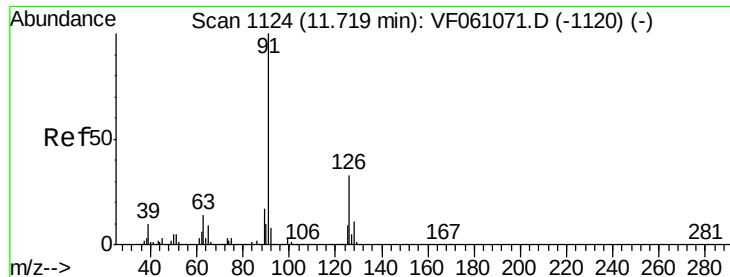
120 20.5 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 12.174 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 106623

Ion Ratio Lower Upper

91 100

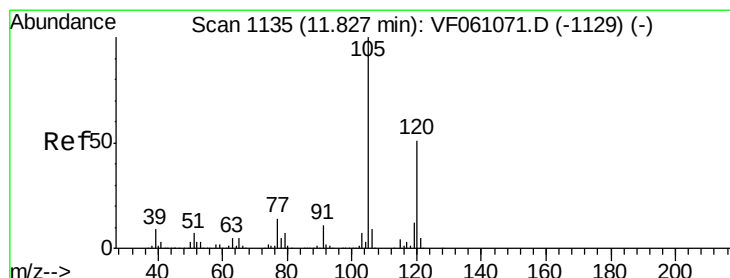
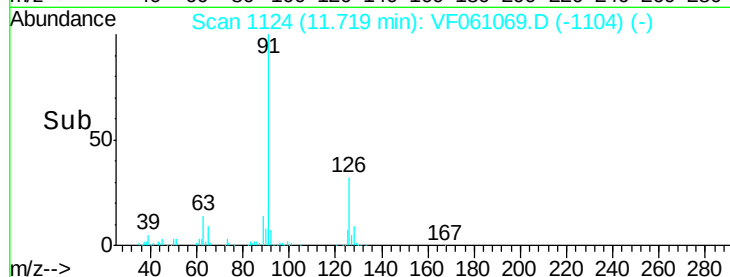
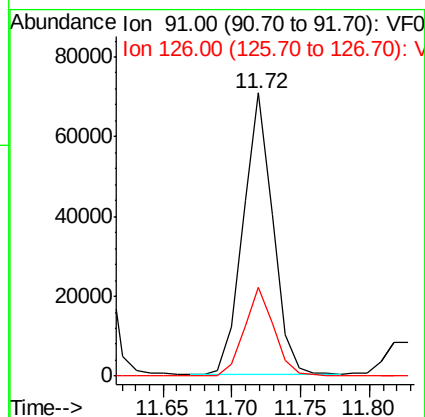
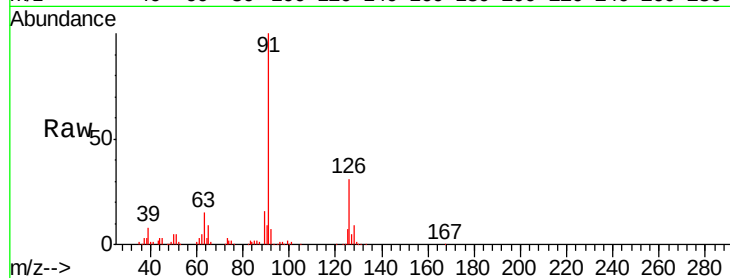
126 31.2 16.4 49.1

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#80

1,3,5-Trimethylbenzene

Concen: 12.513 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VF061069.D

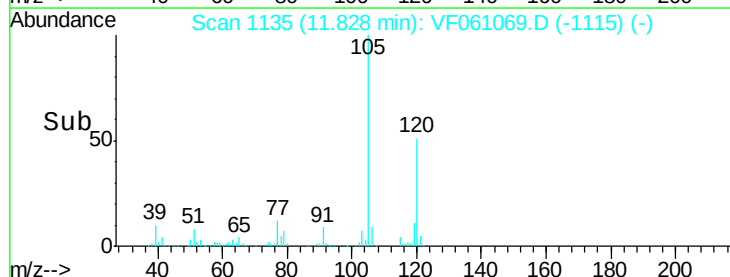
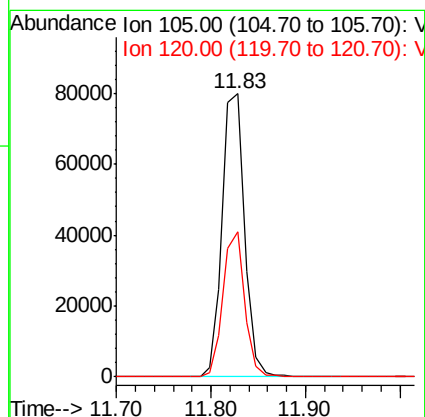
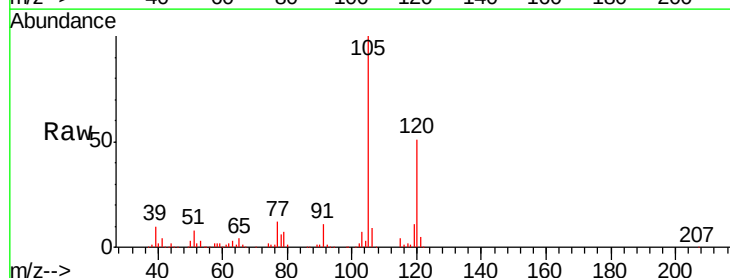
Acq: 18 Dec 2018 18:53

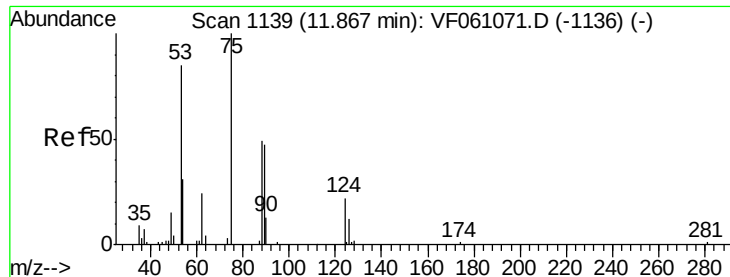
Tgt Ion: 105 Resp: 132163

Ion Ratio Lower Upper

105 100

120 51.5 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 10.081 ug/l m

RT: 11.87 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

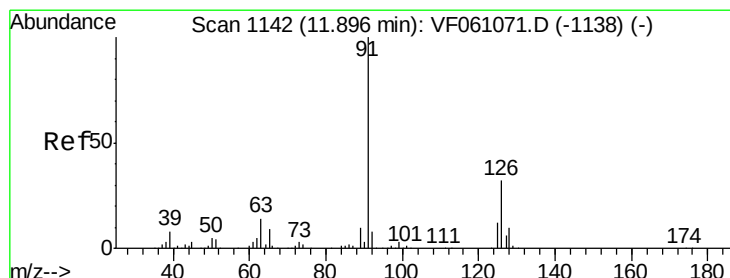
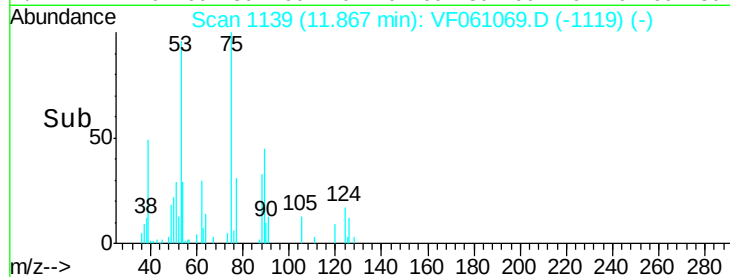
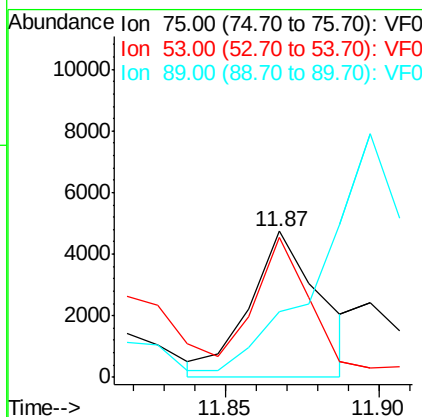
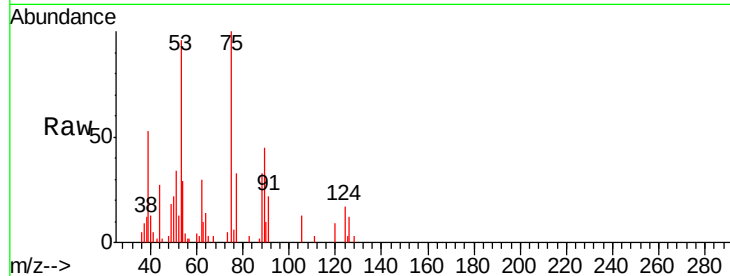
ClientSampleId :

VSTDIC010

Tgt Ion:	75	Resp:	7584
Ion	Ratio	Lower	Upper
75	100		
53	96.0	74.1	111.1
89	45.2	42.6	64.0

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#82

4-Chlorotoluene

Concen: 12.199 ug/l

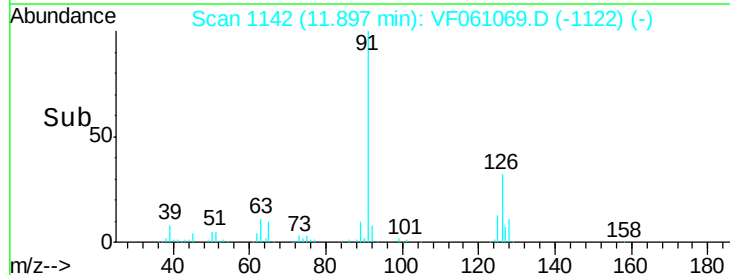
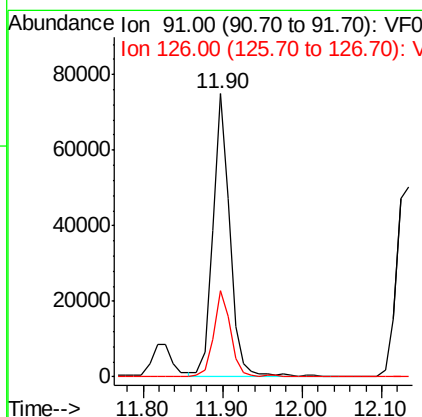
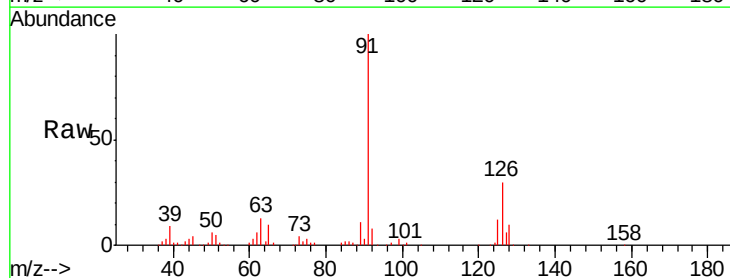
RT: 11.90 min Scan# 1142

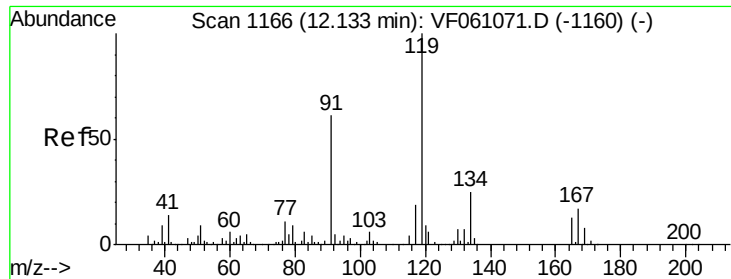
Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion:	91	Resp:	112029
Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.0	47.9





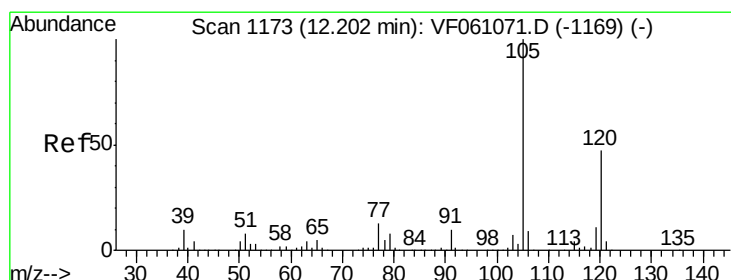
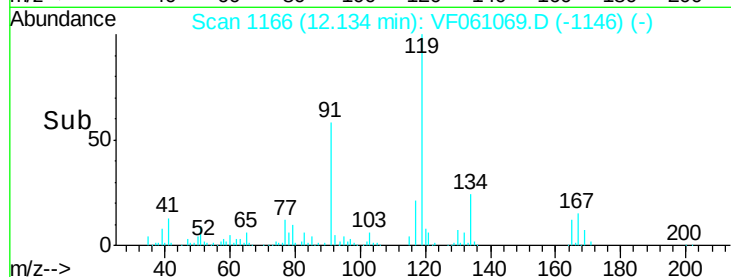
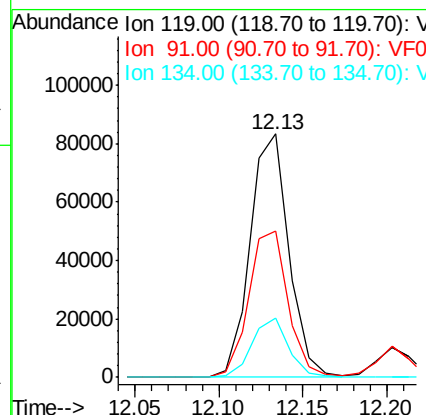
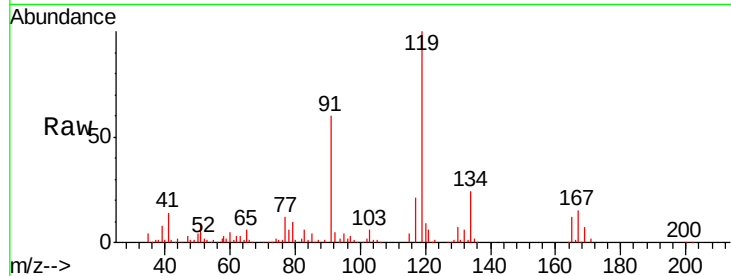
#83
 tert-Butylbenzene
 Concen: 12.310 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	133003		
91	60.1	30.5	91.5	
134	24.2	12.4	37.4	

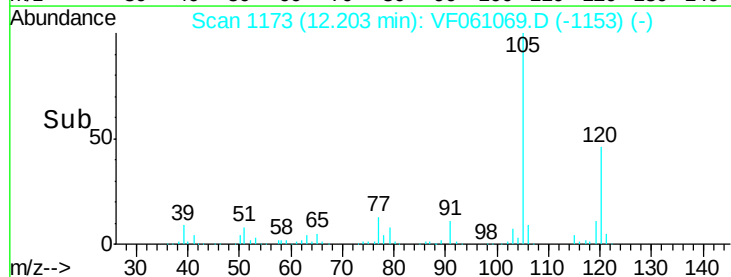
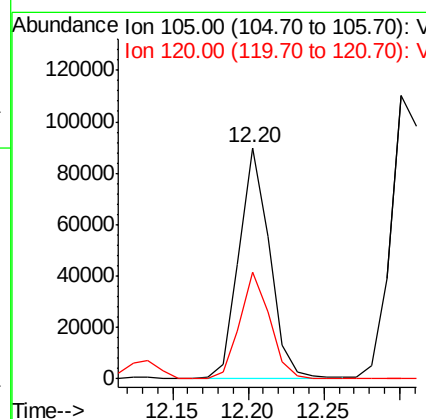
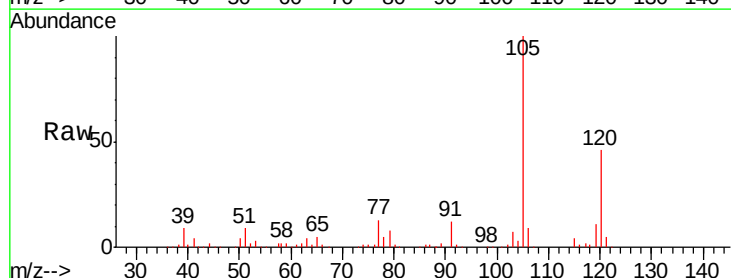
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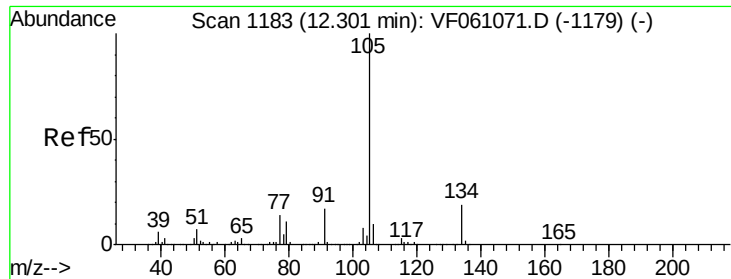
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#84
 1,2,4-Trimethylbenzene
 Concen: 12.153 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	126885		
120	46.4	23.6	71.0	





#85

sec-Butylbenzene

Concen: 11.759 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

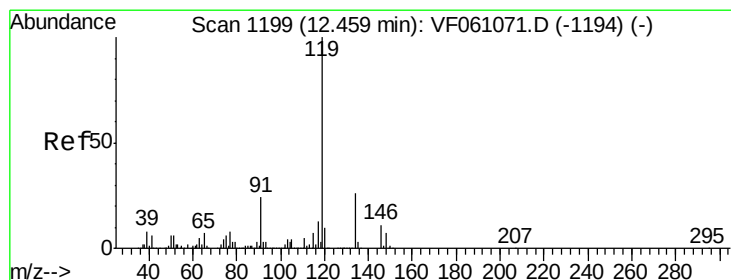
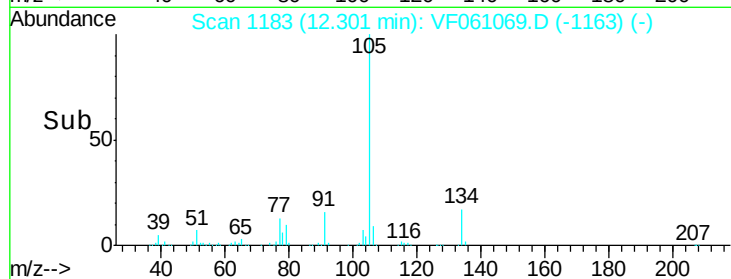
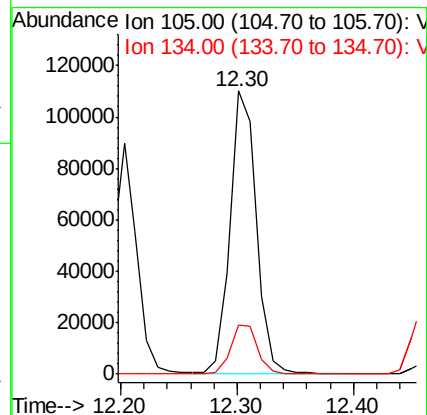
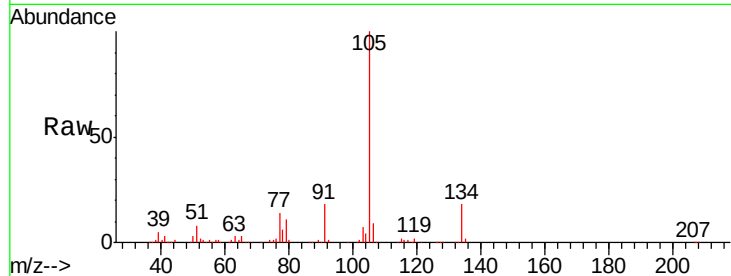
Tgt Ion:105 Resp: 172213
Ion Ratio Lower Upper

105 100

134 17.6 9.4 28.2

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#86

p-Isopropyltoluene

Concen: 12.057 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VF061069.D

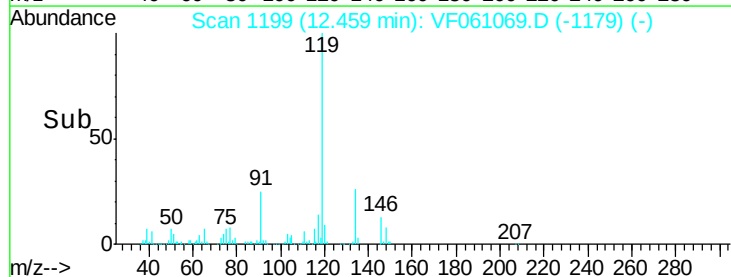
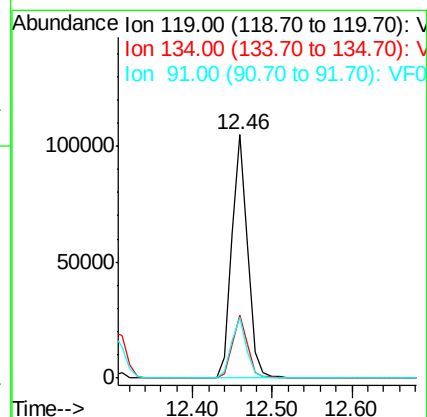
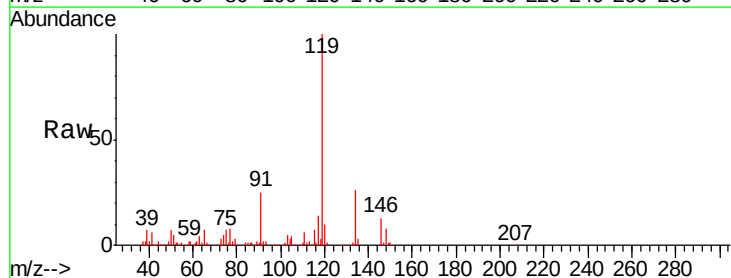
Acq: 18 Dec 2018 18:53

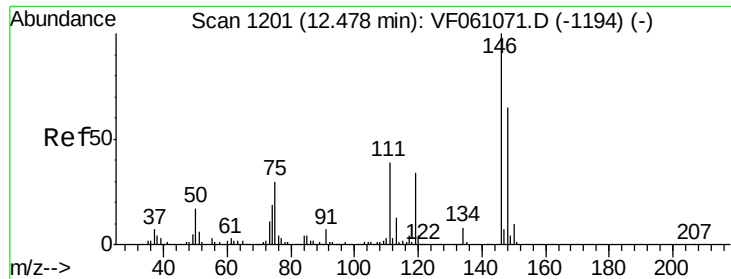
Tgt Ion:119 Resp: 148524
Ion Ratio Lower Upper

119 100

134 26.0 12.8 38.4

91 25.1 12.2 36.6





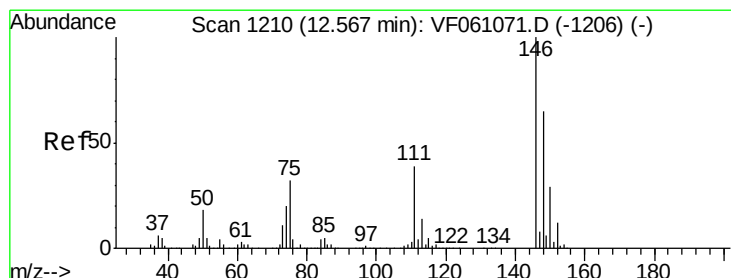
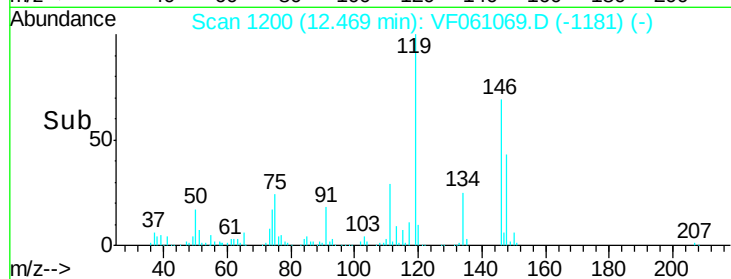
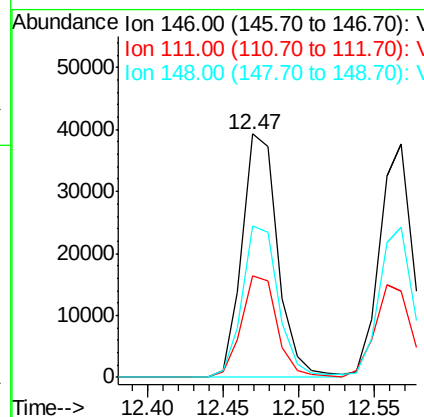
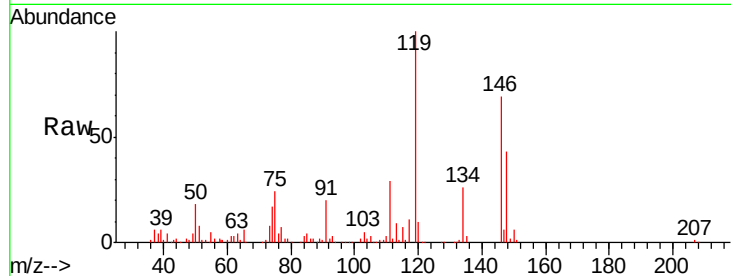
#87
 1,3-Dichlorobenzene
 Concen: 12.088 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	19.3	57.9
148	62.0	32.4	97.2

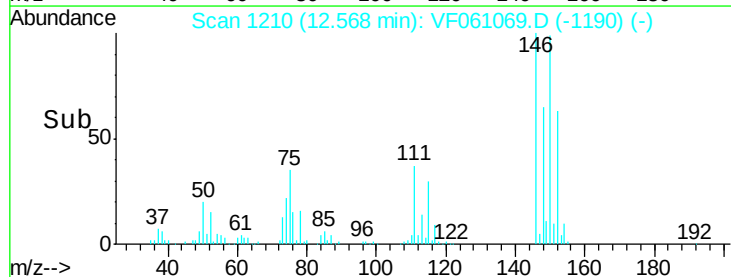
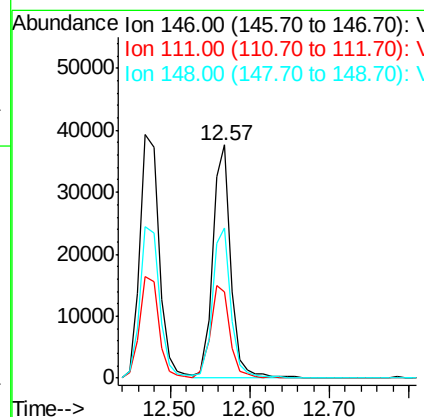
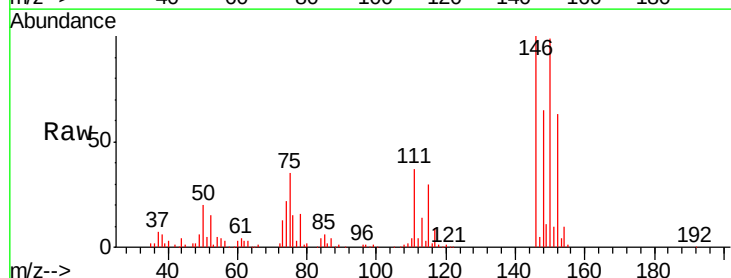
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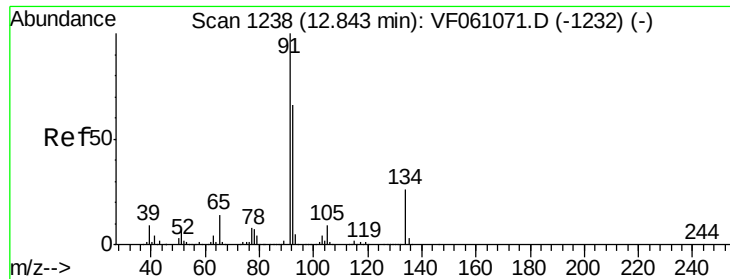
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#88
 1,4-Dichlorobenzene
 Concen: 11.508 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	19.4	58.4
148	64.5	32.4	97.0





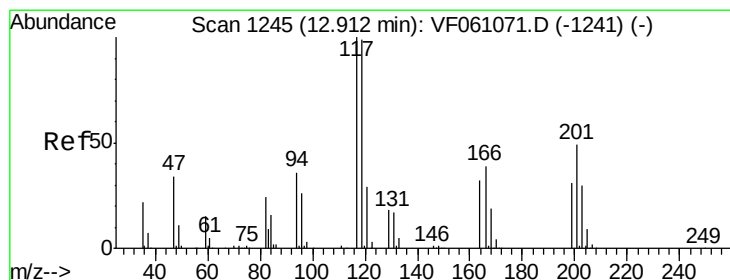
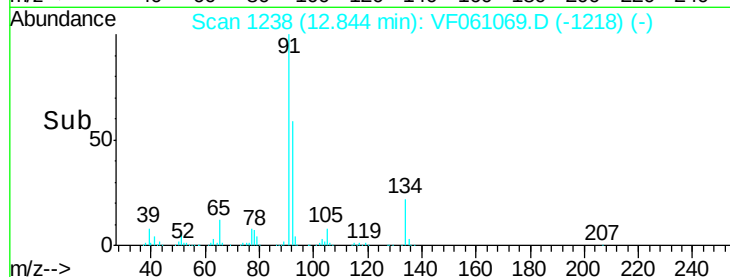
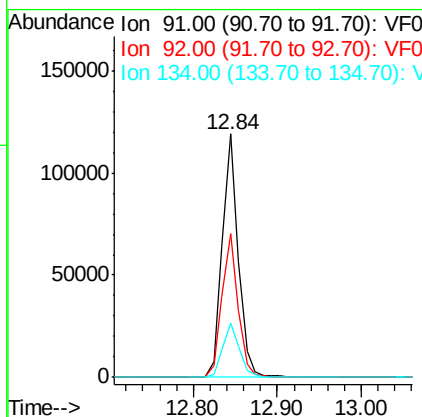
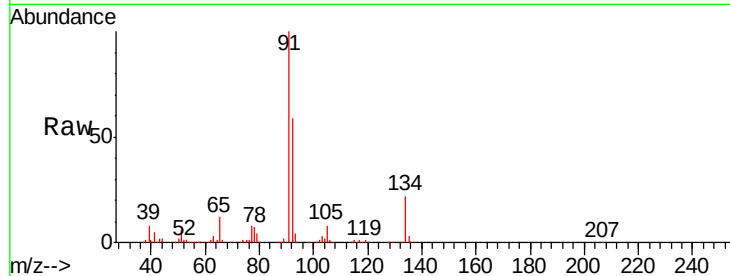
#89
n-Butylbenzene
Concen: 12.749 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.0	32.8	98.4
134	22.0	13.2	39.5

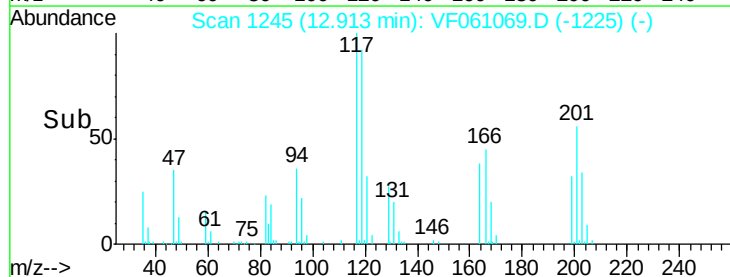
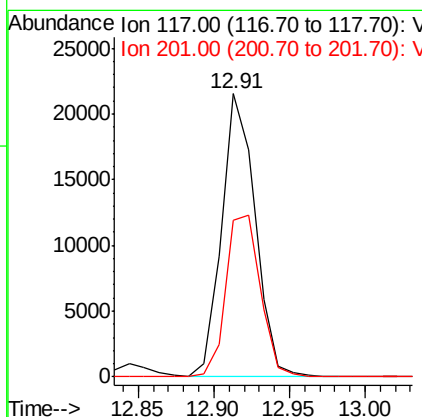
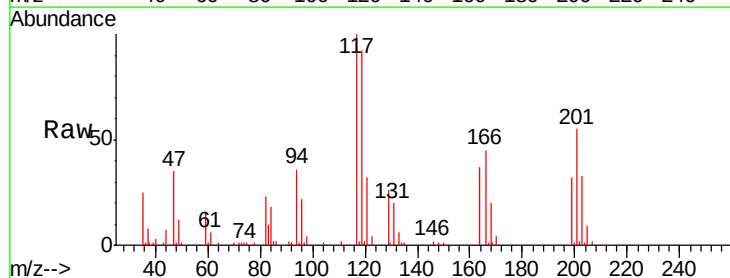
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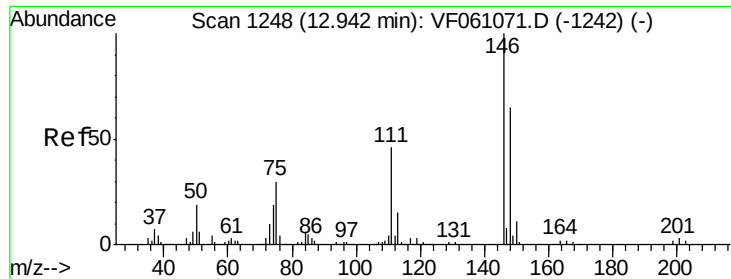
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#90
Hexachloroethane
Concen: 11.248 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	55.3	24.9	74.8





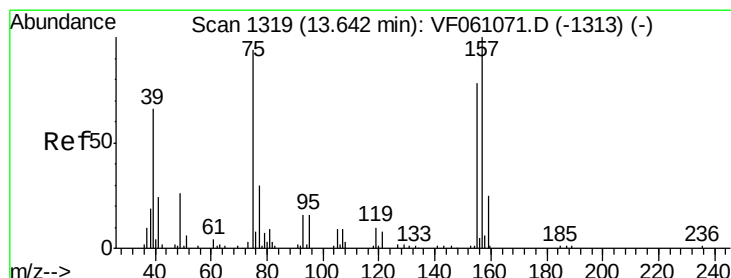
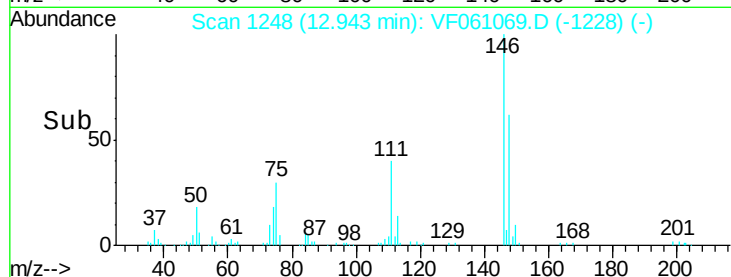
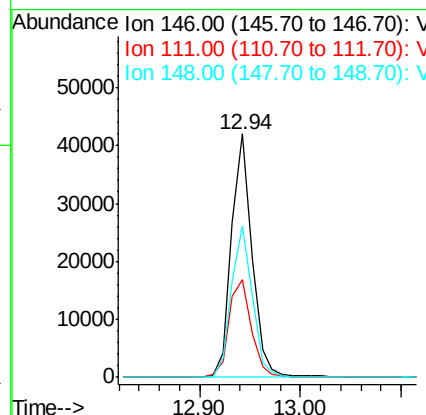
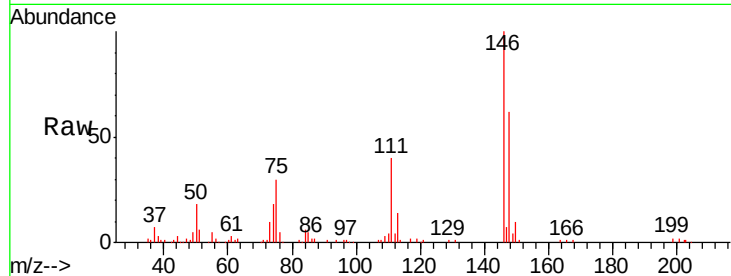
#91
 1,2-Dichlorobenzene
 Concen: 11.751 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Instrument :
 MSVOA_F
 ClientSampled :
 VSTDIC010

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	23.2	69.5
148	62.4	32.4	97.0

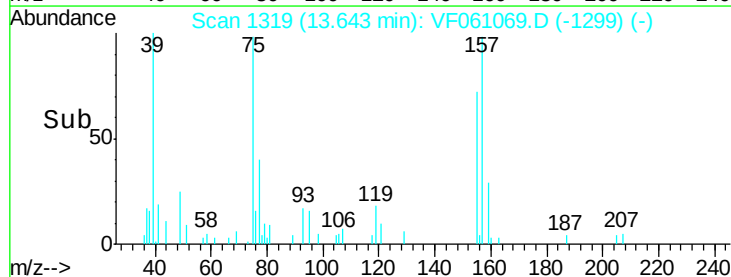
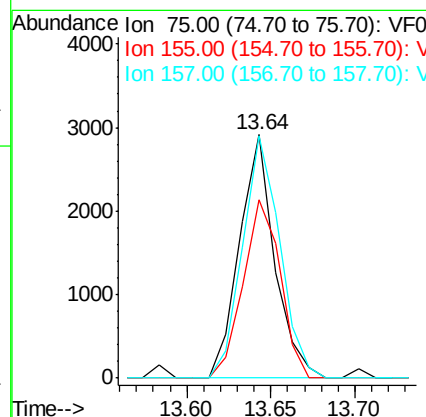
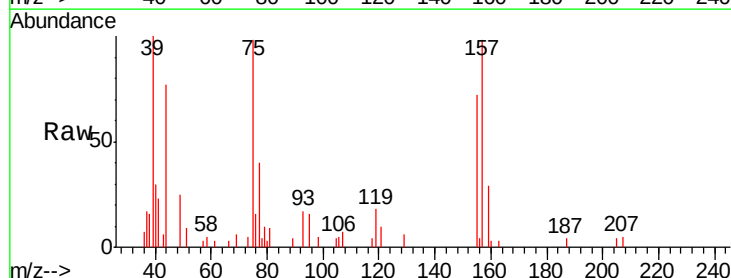
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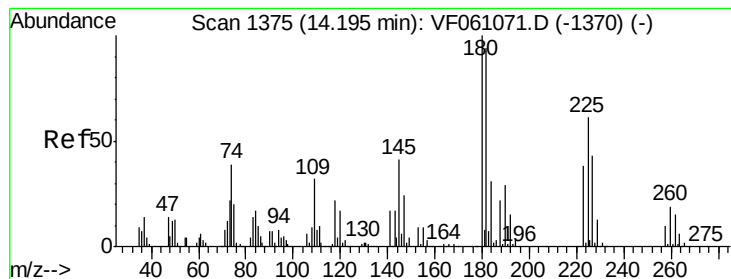
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 10.253 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. 0.00 min
 Lab File: VF061069.D
 Acq: 18 Dec 2018 18:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.3	41.5	124.5
157	99.6	53.2	159.6





#93

1,2,4-Trichlorobenzene

Concen: 11.744 ug/l

RT: 14.20 min Scan# 1375

Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Instrument :

MSVOA_F

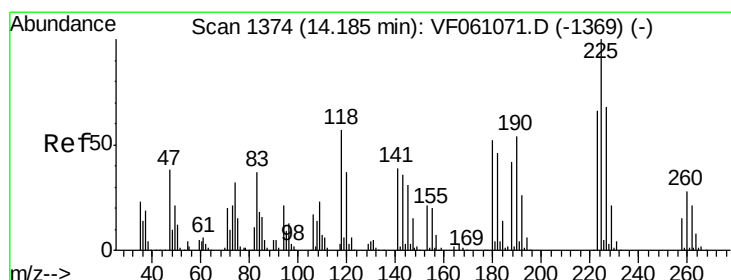
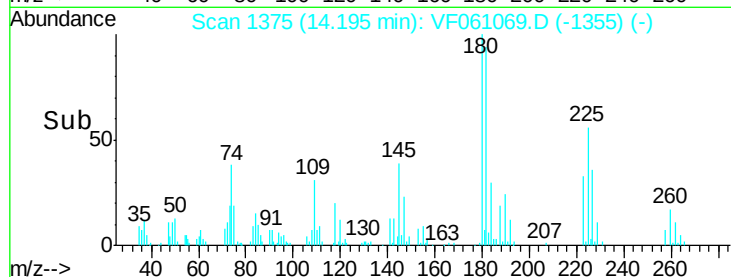
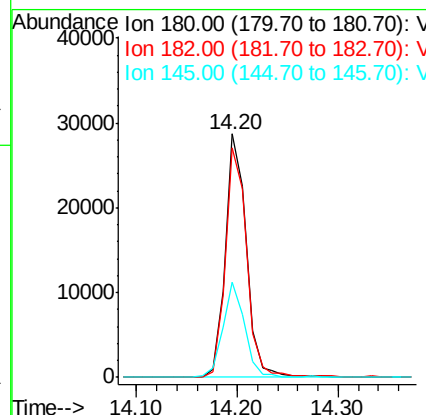
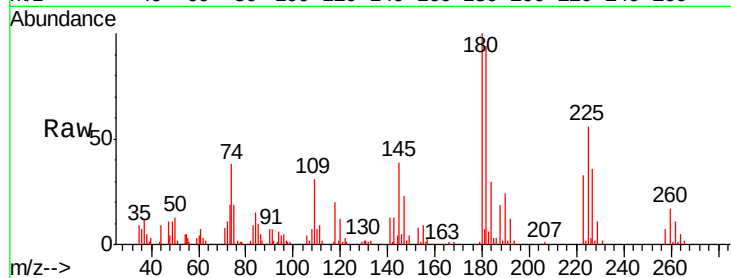
ClientSampleId :

VSTDIC010

Tgt Ion:	180	Resp:	41846
Ion Ratio	Lower	Upper	
180	100		
182	94.2	46.9	140.6
145	39.1	20.5	61.6

Manual Integrations
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#94

Hexachlorobutadiene

Concen: 10.948 ug/l

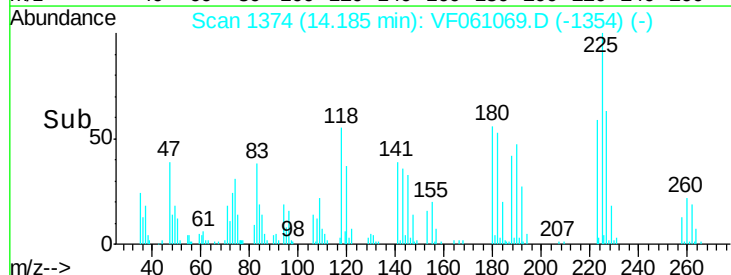
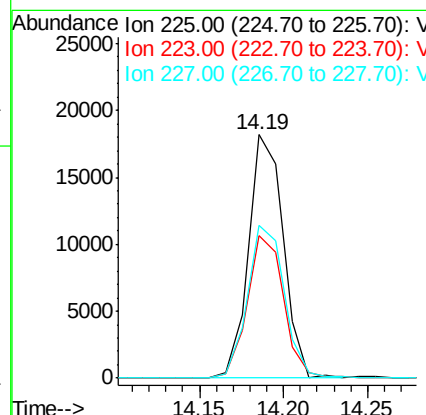
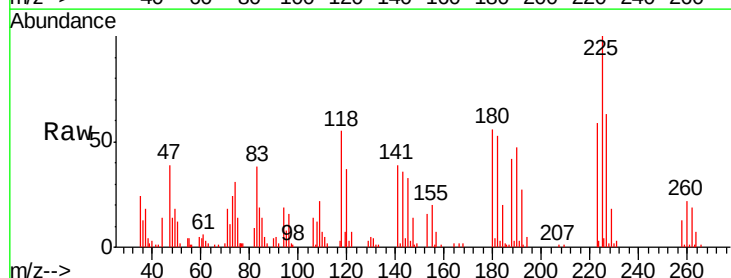
RT: 14.19 min Scan# 1374

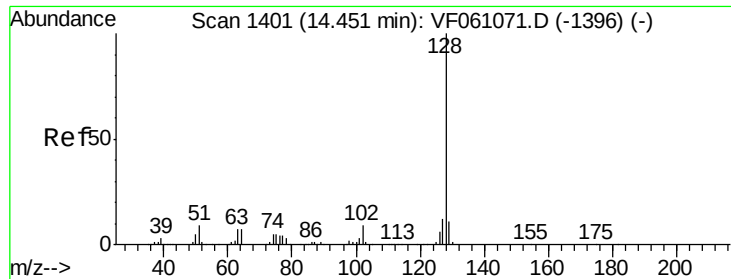
Delta R.T. 0.00 min

Lab File: VF061069.D

Acq: 18 Dec 2018 18:53

Tgt Ion:	225	Resp:	25971
Ion Ratio	Lower	Upper	
225	100		
223	58.7	32.8	98.3
227	62.9	34.0	101.8





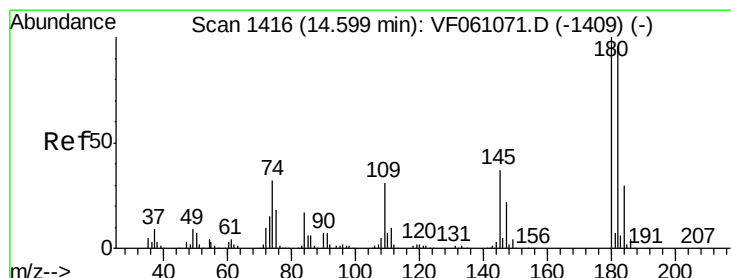
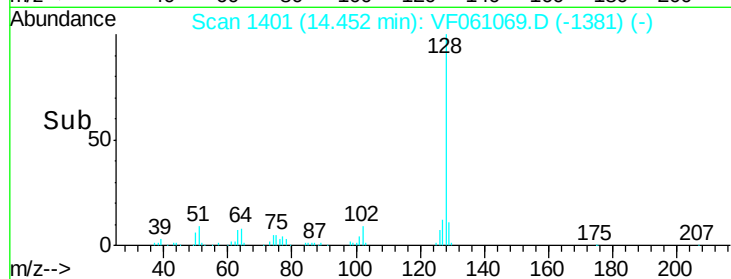
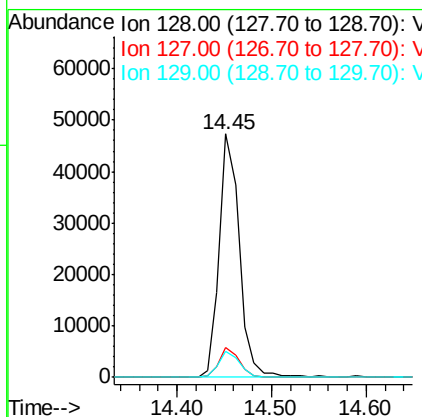
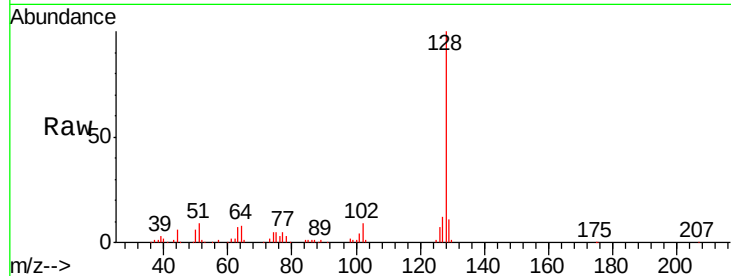
#95
Naphthalene
Concen: 8.962 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.4	14.2
129	10.7	8.8	13.2

Manual Integrations
APPROVED

apatel
12/20/2018 10:28:41 AM



#96
1,2,3-Trichlorobenzene
Concen: 11.159 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. 0.00 min
Lab File: VF061069.D
Acq: 18 Dec 2018 18:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.9	143.8
145	32.8	18.6	55.8

