

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010819\
 Data File : VF061287.D
 Acq On : 8 Jan 2019 15:30
 Operator : VA/AP
 Sample : VSTDICCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

MMDadoda
 1/9/2019 11:44:55 AM

Quant Time: Jan 09 06:20:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 15:56:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	172492	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	301738	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	285262	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	142655	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	102159	46.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.32%	
35) Dibromofluoromethane	4.11	113	123872	53.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.72%	
50) Toluene-d8	7.57	98	365677	53.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.16%	
62) 4-Bromofluorobenzene	11.41	95	153592	50.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	172119	51.969	ug/l	100
3) Chloromethane	1.08	50	147531	58.146	ug/l	100
4) Vinyl Chloride	1.13	62	140271	63.826	ug/l	100
5) Bromomethane	1.28	94	104254	69.386	ug/l	100
6) Chloroethane	1.36	64	71327	71.615	ug/l	100
7) Trichlorofluoromethane	1.45	101	240740	60.873	ug/l	100
8) Diethyl Ether	1.63	74	36213	64.184	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.81	101	128319	64.942	ug/l	100
10) Methyl Iodide	1.85	142	197545	61.879	ug/l	100
11) Tert butyl alcohol	2.57	59	17709	191.671	ug/l	100
12) 1,1-Dichloroethene	1.75	96	102653	61.805	ug/l	100
13) Acrolein	2.00	56	23520	271.971	ug/l	100
14) Allyl chloride	2.09	41	185500	80.786	ug/l	100
15) Acrylonitrile	2.94	53	70374	284.909	ug/l	100
16) Acetone	2.23	43	112753	257.132	ug/l	100
17) Carbon Disulfide	1.77	76	343252	67.869	ug/l	100
18) Methyl Acetate	2.34	43	46212	47.623	ug/l	100
19) Methyl tert-butyl Ether	2.43	73	201332	58.153	ug/l	100
20) Methylene Chloride	2.18	84	102152	50.196	ug/l	100
21) trans-1,2-Dichloroethene	2.31	96	110780	63.416	ug/l	100
22) Diisopropyl ether	2.79	45	358315	62.059	ug/l	100
23) Vinyl Acetate	3.19	43	520088	196.693	ug/l	100
24) 1,1-Dichloroethane	2.87	63	202002	59.673	ug/l	100
25) 2-Butanone	4.33	43	175247	212.899	ug/l	100
26) 2,2-Dichloropropane	3.60	77	141191	72.428	ug/l	100
27) cis-1,2-Dichloroethene	3.47	96	141155	54.989	ug/l	100
28) Bromochloromethane	3.72	49	88241	55.065	ug/l	100
29) Tetrahydrofuran	4.08	42	76909	240.306	ug/l	100
30) Chloroform	3.87	83	259312	54.765	ug/l	100
31) Cyclohexane	3.70	56	212410	59.201	ug/l	100
32) 1,1,1-Trichloroethane	4.10	97	219275	71.296	ug/l	100
36) 1,1-Dichloropropene	4.28	75	182178	51.264	ug/l	100
37) Ethyl Acetate	4.11	43	62398	43.977	ug/l	100
38) Carbon Tetrachloride	4.00	117	185694	65.268	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	241567	63.592	ug/l	100
40) Benzene	4.64	78	417924	51.818	ug/l	100
41) Methacrylonitrile	4.75	41	36028	44.655	ug/l	100
42) 1,2-Dichloroethane	4.94	62	131648	48.786	ug/l	100
43) Isopropyl Acetate	6.97	43	86565	45.723	ug/l	100
44) Trichloroethene	5.52	130	125439	49.966	ug/l	100
45) 1,2-Dichloropropane	6.25	63	110757	53.790	ug/l	100
46) Dibromomethane	6.09	93	66197	48.858	ug/l	100
47) Bromodichloromethane	6.39	83	172195	49.927	ug/l	100
48) Methyl methacrylate	6.72	41	60718	49.528	ug/l	100
49) 1,4-Dioxane	6.71	88	6893	811.474	ug/l	100
51) 4-Methyl-2-Pentanone	8.27	43	338229	257.223	ug/l	100
52) Toluene	7.64	92	277219	52.641	ug/l	100
53) t-1,3-Dichloropropene	8.29	75	133338	47.425	ug/l	100
54) cis-1,3-Dichloropropene	7.31	75	177746	49.741	ug/l	100
55) 1,1,2-Trichloroethane	8.49	97	77182	50.964	ug/l	100
56) Ethyl methacrylate	8.63	69	87975	52.563	ug/l	100
57) 1,3-Dichloropropane	8.86	76	140769	49.448	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.30	63	21258	104.589	ug/l	100
59) 2-Hexanone	9.50	43	224989	236.346	ug/l	100
60) Dibromochloromethane	8.72	129	112395	52.249	ug/l	100
61) 1,2-Dibromoethane	9.00	107	78774	48.196	ug/l	100
64) Tetrachloroethene	8.16	164	109624	50.145	ug/l	100
65) Chlorobenzene	9.81	112	293297	50.563	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.94	131	123669	51.915	ug/l	100
67) Ethyl Benzene	9.90	91	581133	54.500	ug/l	100
68) m/p-Xylenes	10.14	106	393545	101.132	ug/l	100
69) o-Xylene	10.72	106	232516	55.235	ug/l	100
70) Styrene	10.79	104	306765	52.936	ug/l	100
71) Bromoform	10.78	173	53653	48.378	ug/l	100
73) Isopropylbenzene	11.13	105	667545	55.089	ug/l	100
74) N-amyl acetate	11.37	43	151237	49.434	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.70	83	105920	50.043	ug/l	100
76) 1,2,3-Trichloropropane	11.80	75	72429	46.096	ug/l	100
77) Bromobenzene	11.50	156	128676	50.583	ug/l	100
78) n-propylbenzene	11.60	91	766846	53.092	ug/l	100
79) 2-Chlorotoluene	11.73	91	429932	51.541	ug/l	100
80) 1,3,5-Trimethylbenzene	11.83	105	506076	51.732	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.88	75	32226m	44.749	ug/l	
82) 4-Chlorotoluene	11.91	91	418374	49.476	ug/l	100
83) tert-Butylbenzene	12.13	119	511646	50.726	ug/l	100
84) 1,2,4-Trimethylbenzene	12.21	105	519268	53.319	ug/l	100
85) sec-Butylbenzene	12.31	105	737705	53.919	ug/l	100
86) p-Isopropyltoluene	12.47	119	607220	53.864	ug/l	100
87) 1,3-Dichlorobenzene	12.48	146	243956	49.699	ug/l	100
88) 1,4-Dichlorobenzene	12.57	146	243147	50.768	ug/l	100
89) n-Butylbenzene	12.85	91	616703	53.245	ug/l	100
90) Hexachloroethane	12.92	117	139681	50.223	ug/l	100
91) 1,2-Dichlorobenzene	12.95	146	242592	51.160	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.65	75	19118	50.262	ug/l	100

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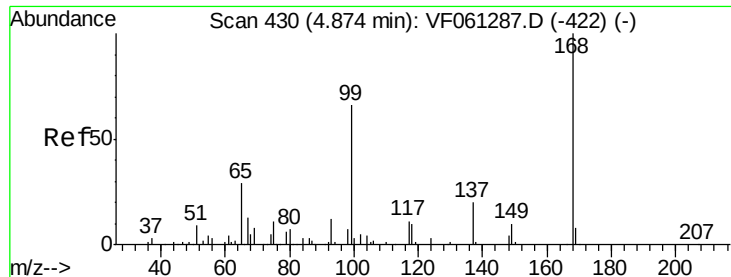
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	172218	51.866	ug/l	100
94) Hexachlorobutadiene	14.20	225	110462	52.214	ug/l	100
95) Naphthalene	14.46	128	328004	52.848	ug/l	100
96) 1,2,3-Trichlorobenzene	14.61	180	162086	52.648	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:168 Resp: 172492

Ion Ratio Lower Upper

168 100

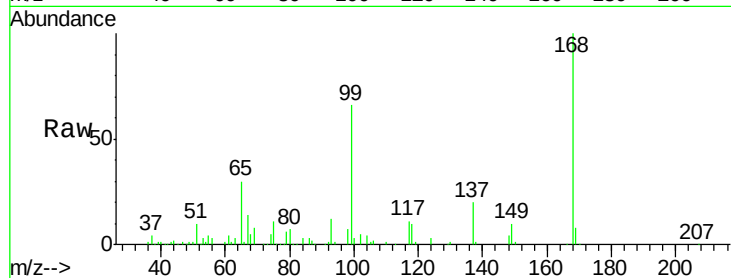
99 65.9 52.7 79.1

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

50000

40000

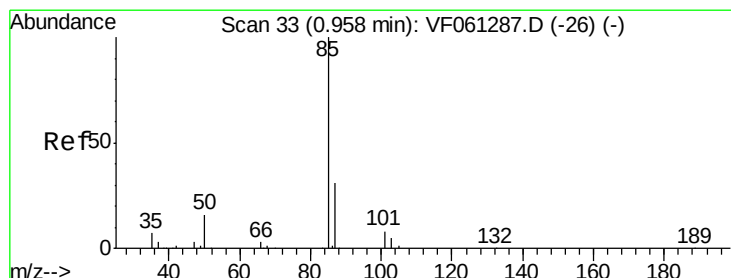
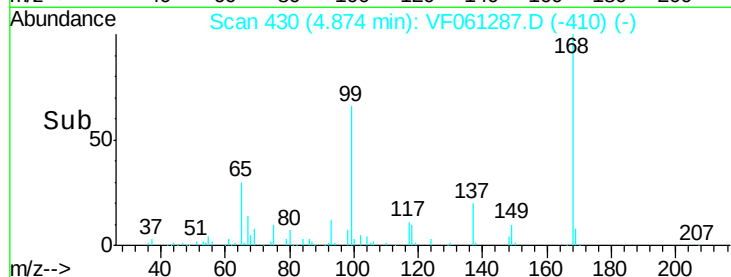
30000

20000

10000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 51.969 ug/l

RT: 0.96 min Scan# 33

Delta R.T. 0.00 min

Lab File: VF061287.D

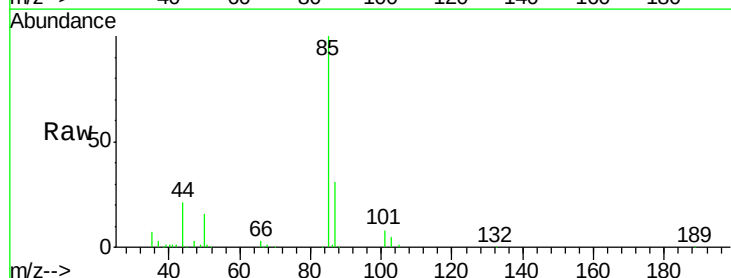
Acq: 8 Jan 2019 15:30

Tgt Ion: 85 Resp: 172119

Ion Ratio Lower Upper

85 100

87 30.8 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

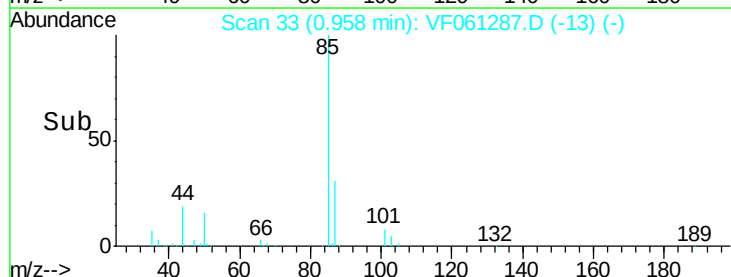
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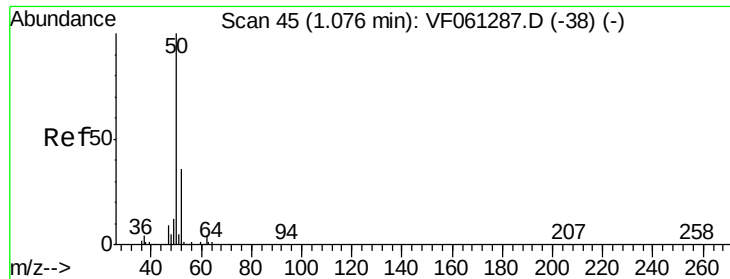
40000

20000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 58.146 ug/l

RT: 1.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 50 Resp: 147531

Ion Ratio Lower Upper

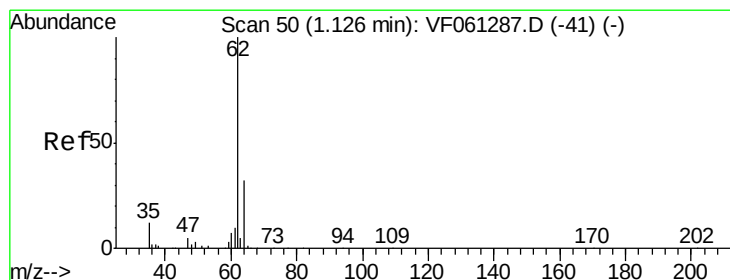
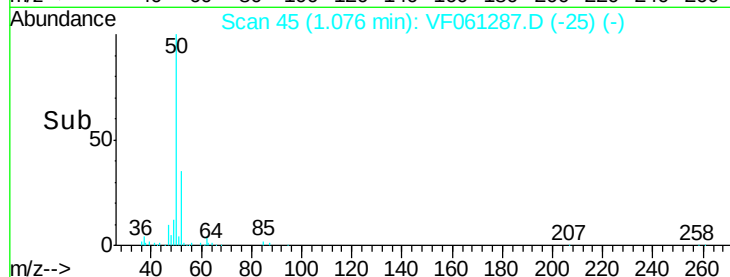
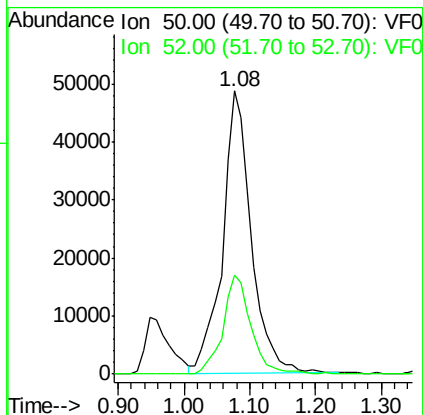
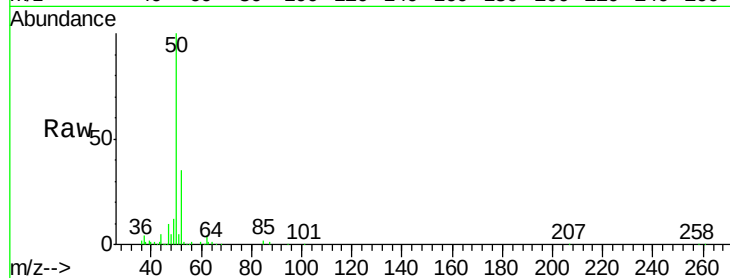
50 100

52 35.2 28.2 42.2

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#4

Vinyl Chloride

Concen: 63.826 ug/l

RT: 1.13 min Scan# 50

Delta R.T. 0.00 min

Lab File: VF061287.D

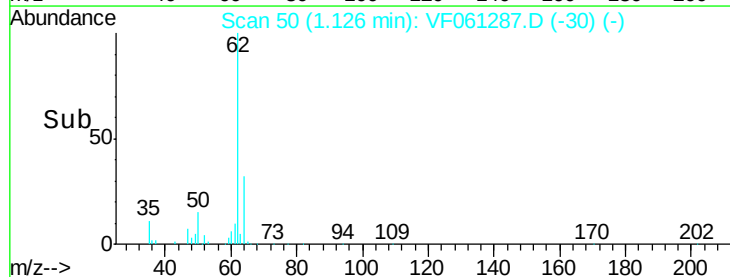
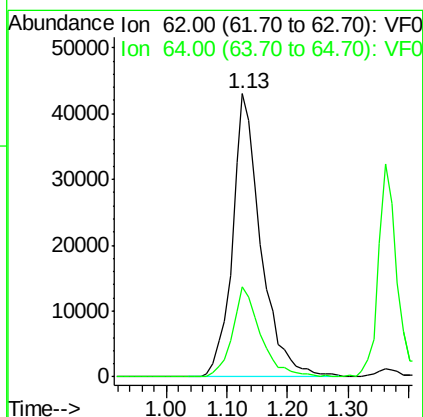
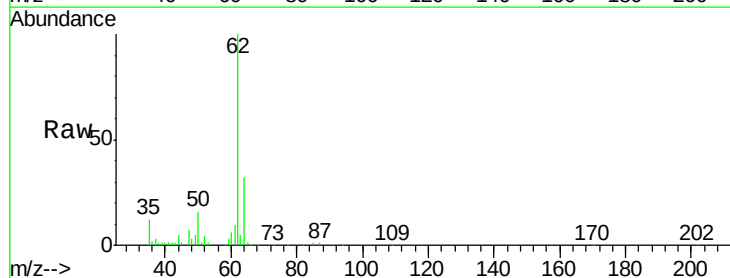
Acq: 8 Jan 2019 15:30

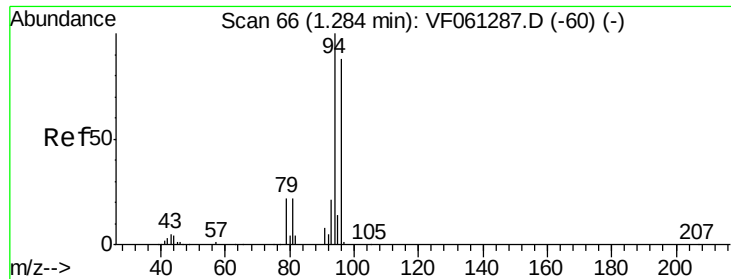
Tgt Ion: 62 Resp: 140271

Ion Ratio Lower Upper

62 100

64 31.7 25.4 38.0





#5

Bromomethane

Concen: 69.386 ug/l

RT: 1.28 min Scan# 66

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 94 Resp: 104254

Ion Ratio Lower Upper

94 100

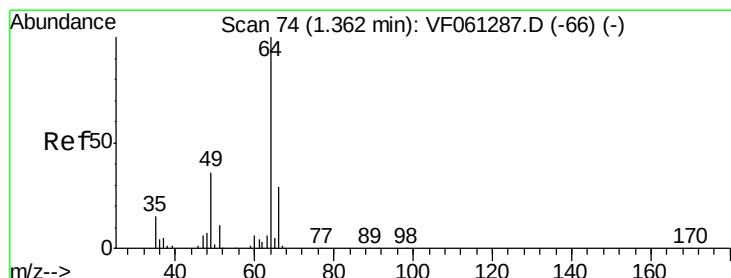
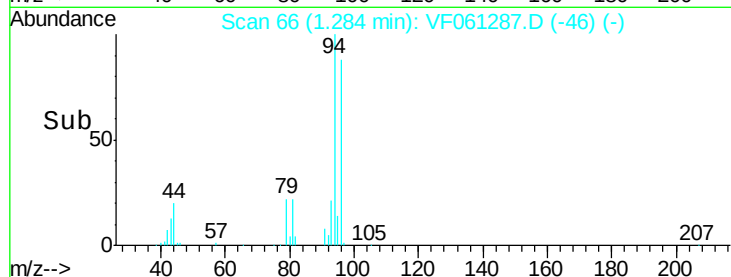
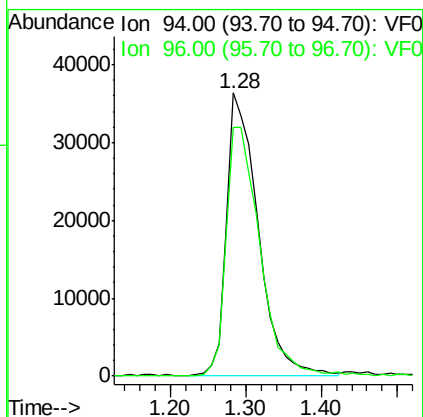
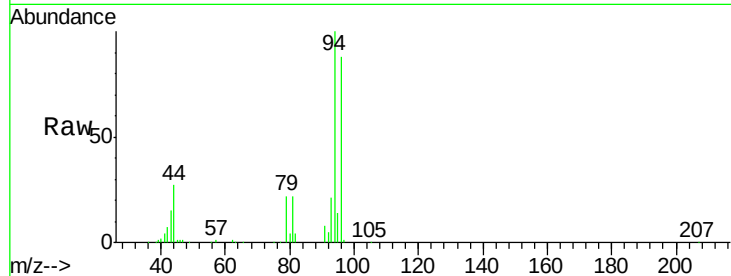
96 87.8 70.2 105.4

Manual Integrations

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#6

Chloroethane

Concen: 71.615 ug/l

RT: 1.36 min Scan# 74

Delta R.T. 0.00 min

Lab File: VF061287.D

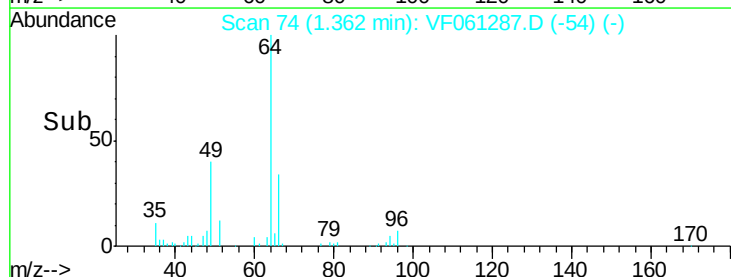
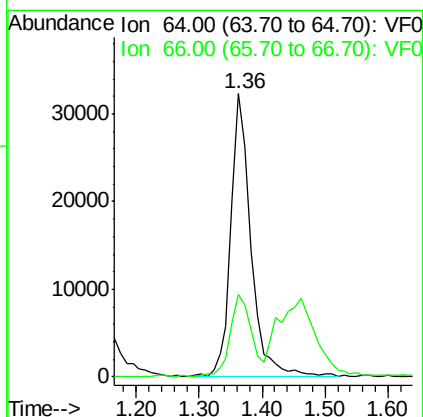
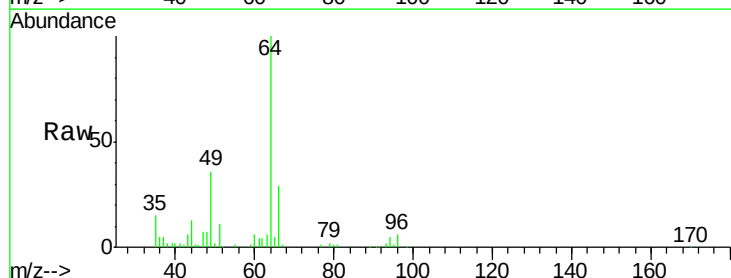
Acq: 8 Jan 2019 15:30

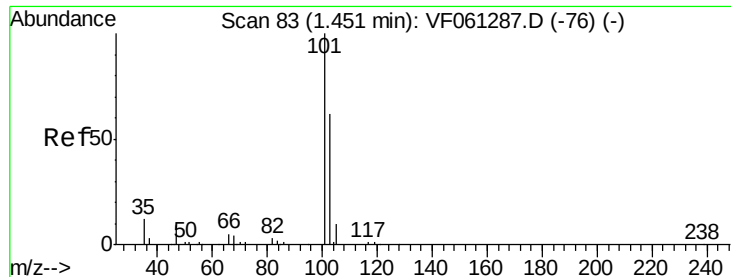
Tgt Ion: 64 Resp: 71327

Ion Ratio Lower Upper

64 100

66 29.2 23.4 35.0





#7

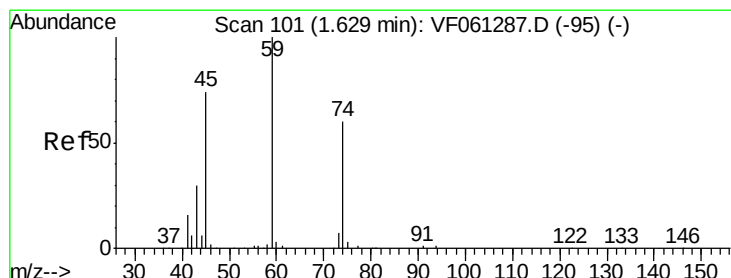
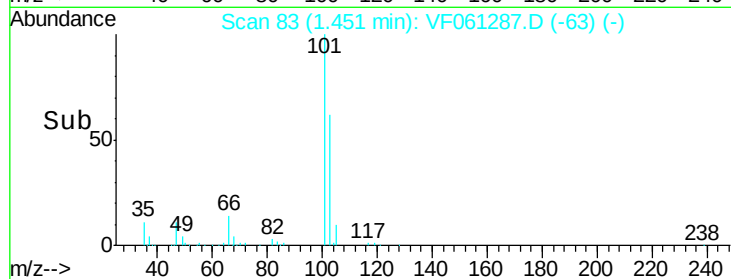
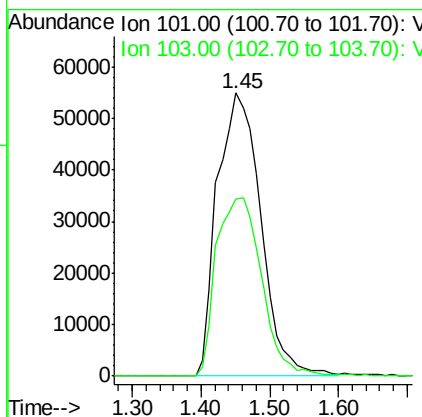
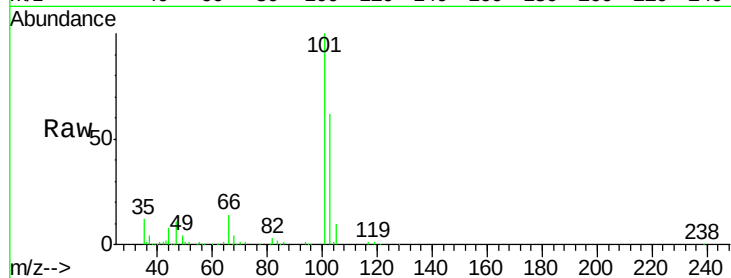
Trichlorofluoromethane
Concen: 60.873 ug/l
RT: 1.45 min Scan# 83
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		240740		
103	62.4	49.9	74.9		

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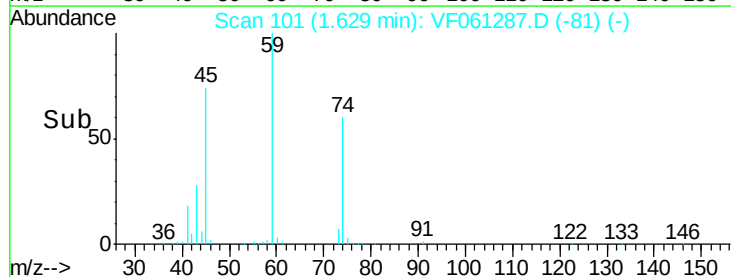
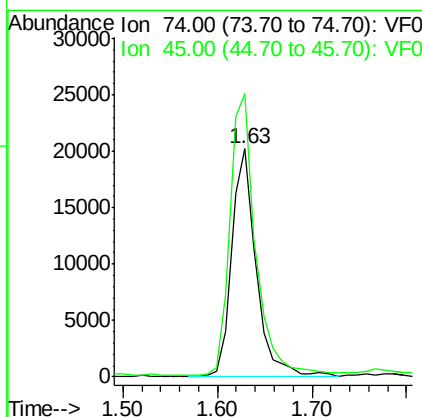
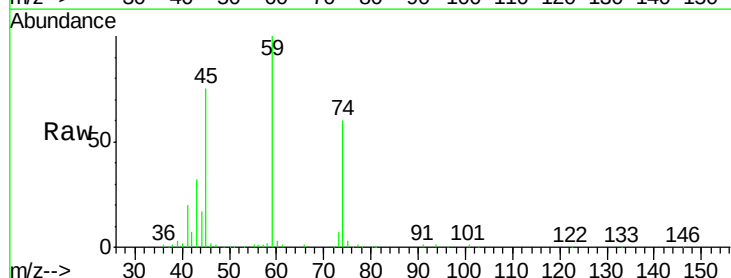
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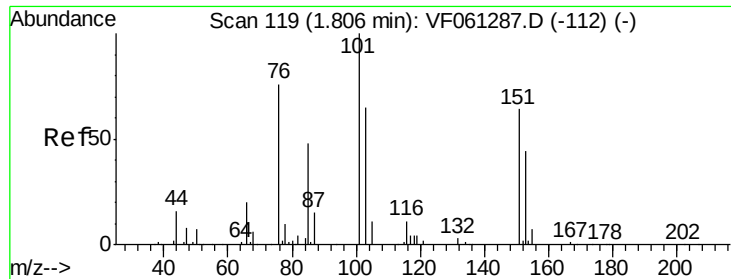


#8

Diethyl Ether
Concen: 64.184 ug/l
RT: 1.63 min Scan# 101
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		36213		
45	124.2	62.1	186.3		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 64.942 ug/l

RT: 1.81 min Scan# 119

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

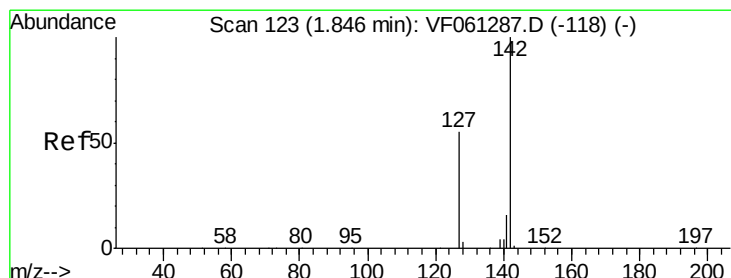
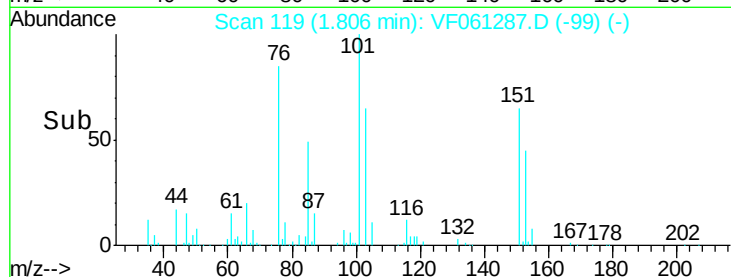
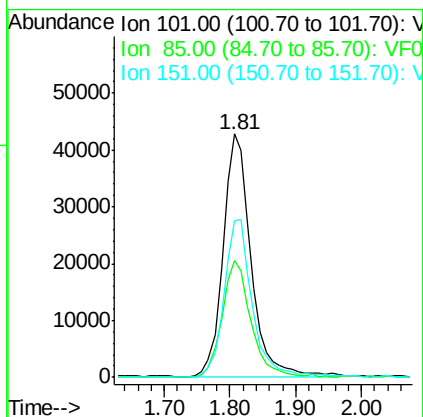
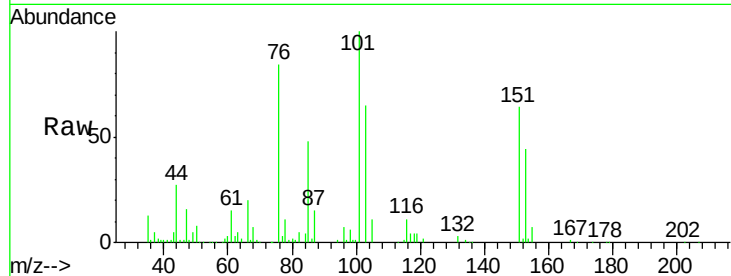
ClientSampleId :

VSTDICCC050

Tot Ion:	101	Resp:	128319
Ion Ratio	Lower	Upper	
101	100		
85	48.0	38.4	57.6
151	64.3	51.4	77.2

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#10

Methyl Iodide

Concen: 61.879 ug/l

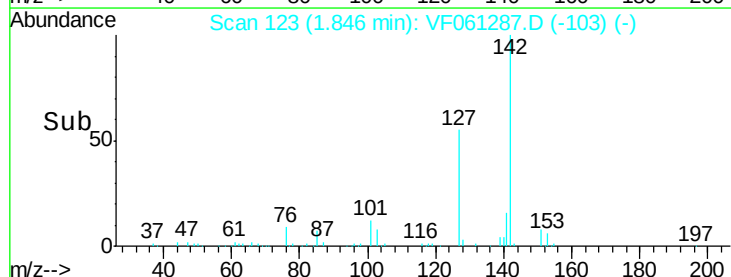
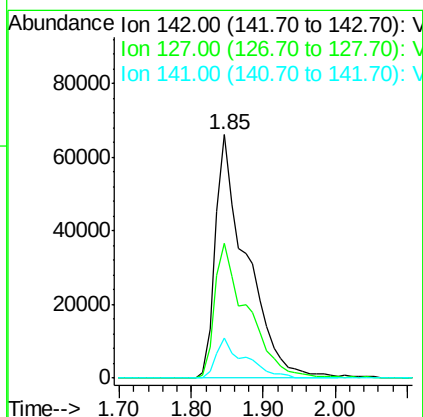
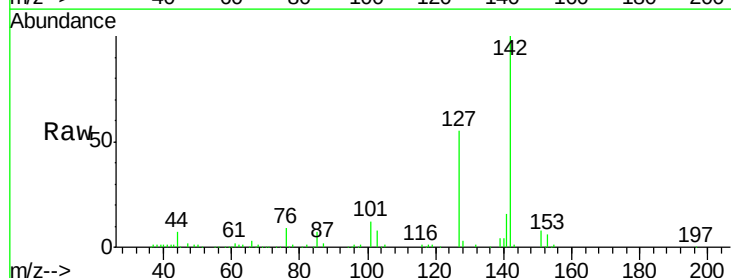
RT: 1.85 min Scan# 123

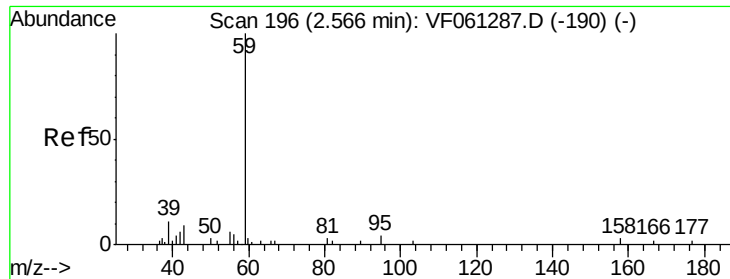
Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tgt Ion:	142	Resp:	197545
Ion Ratio	Lower	Upper	
142	100		
127	55.4	44.3	66.5
141	16.5	13.2	19.8





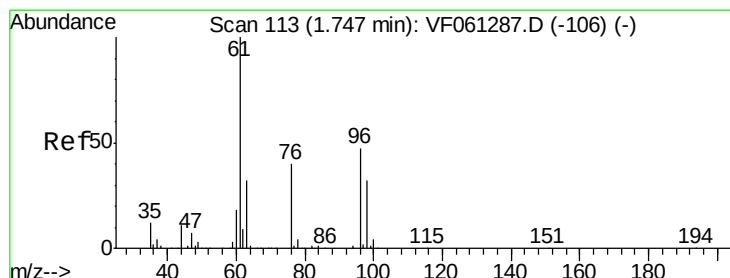
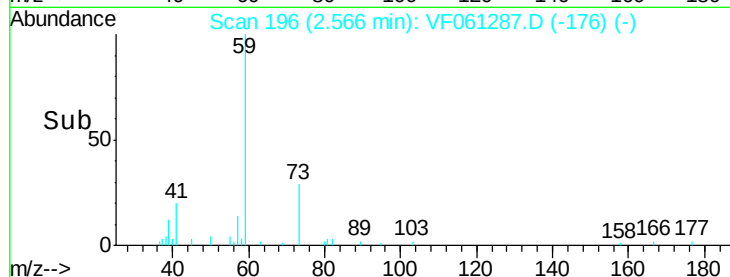
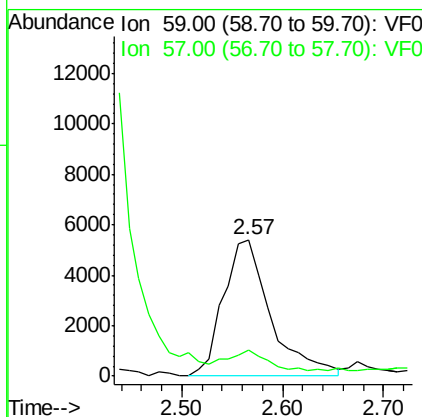
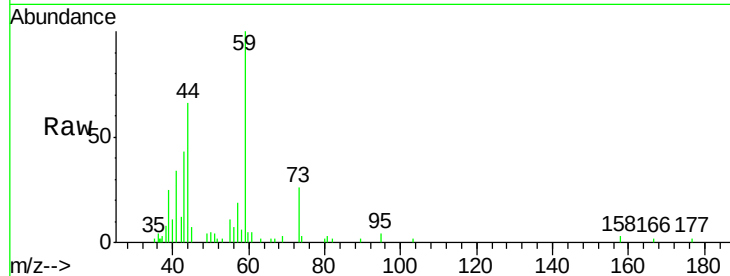
#11
Tert butyl alcohol
Concen: 191.671 ug/l
RT: 2.57 min Scan# 196
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion: 59 Resp: 17709
Ion Ratio Lower Upper
59 100
57 18.9 15.1 22.7

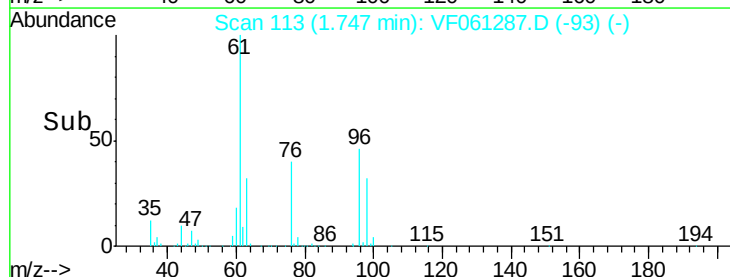
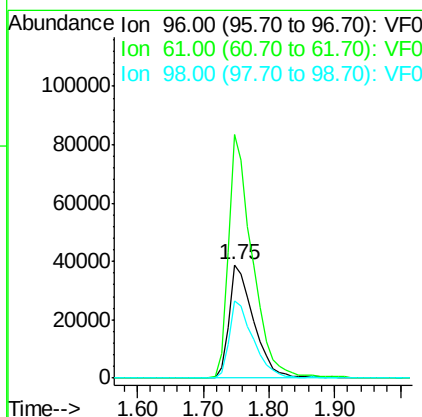
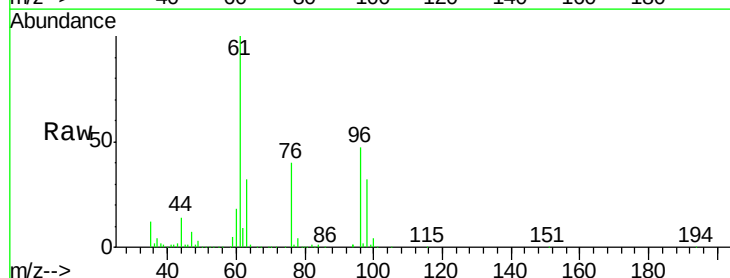
Manual Integrations
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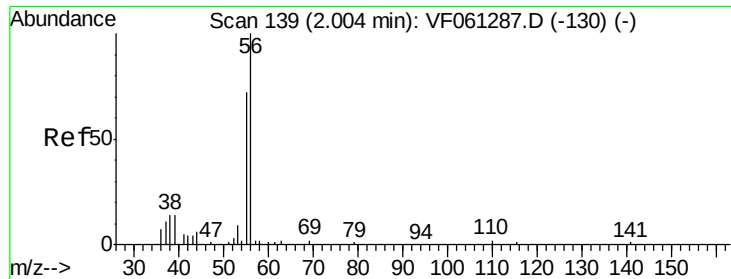
MMDadoda
1/9/2019 11:44:55 AM



#12
1,1-Dichloroethene
Concen: 61.805 ug/l
RT: 1.75 min Scan# 113
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion: 96 Resp: 102653
Ion Ratio Lower Upper
96 100
61 214.8 171.8 257.8
98 67.8 54.2 81.4





#13

Acrolein

Concen: 271.971 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 56 Resp: 23520

Ion Ratio Lower Upper

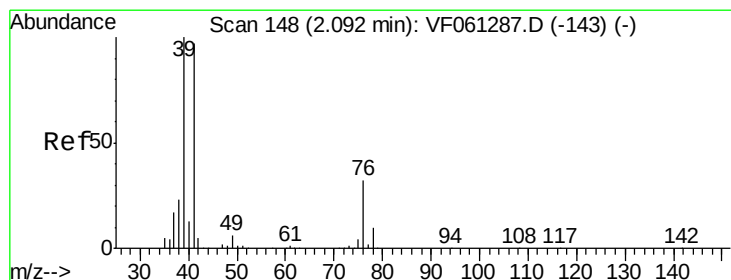
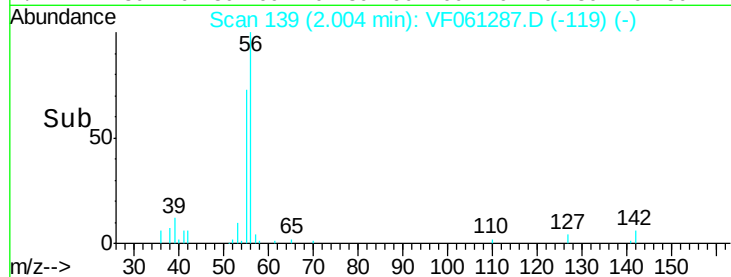
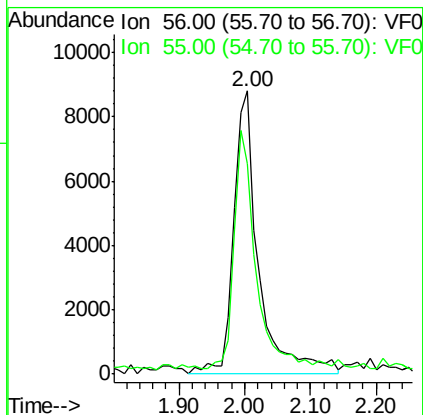
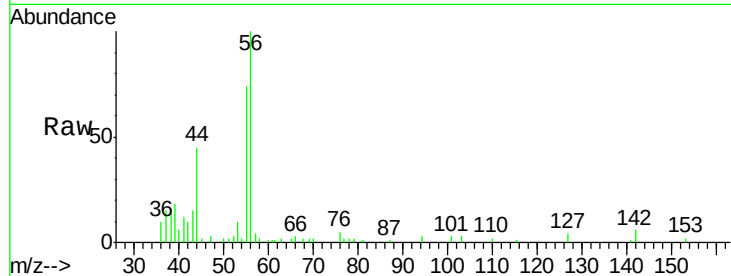
56 100

55 74.2 59.4 89.0

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#14

Allyl chloride

Concen: 80.786 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

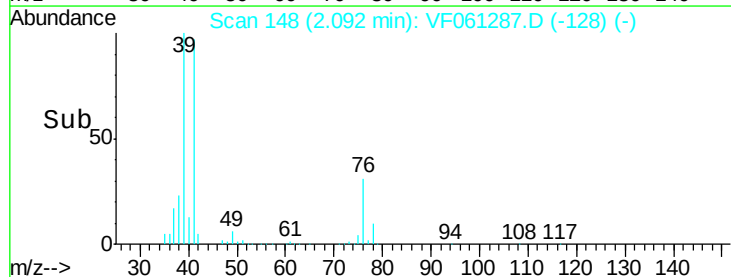
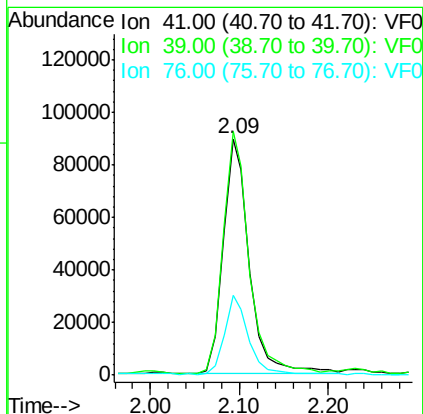
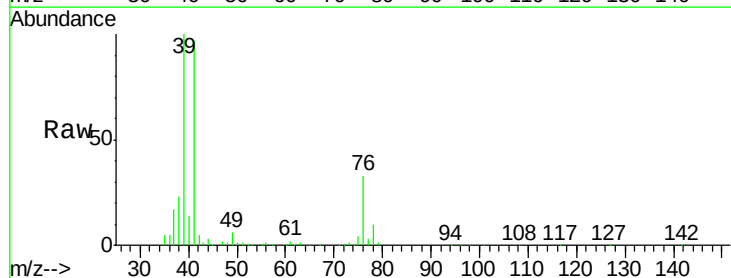
Tgt Ion: 41 Resp: 185500

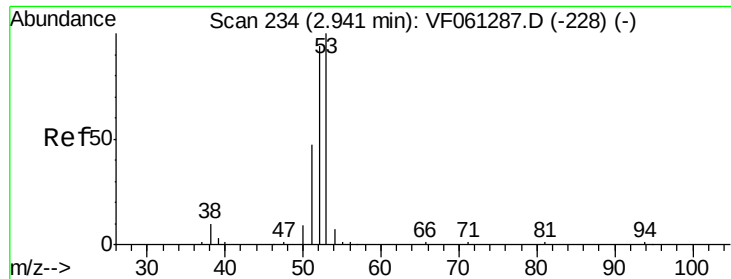
Ion Ratio Lower Upper

41 100

39 103.2 82.6 123.8

76 33.6 26.9 40.3





#15

Acrylonitrile

Concen: 284.909 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

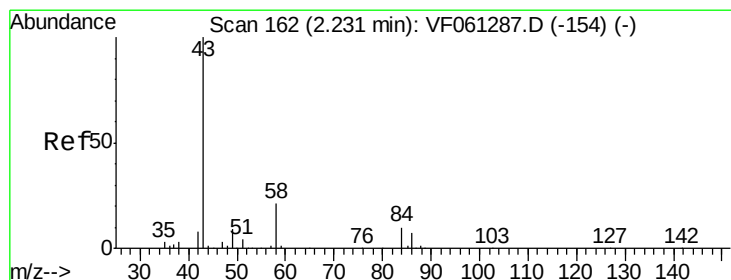
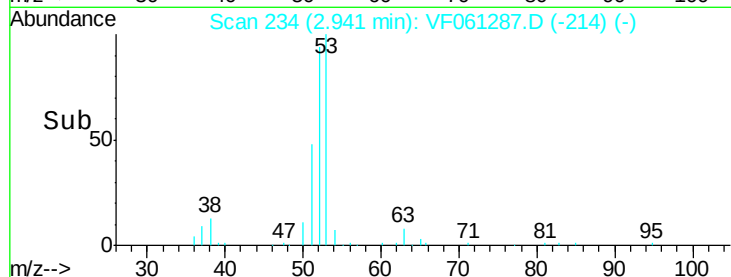
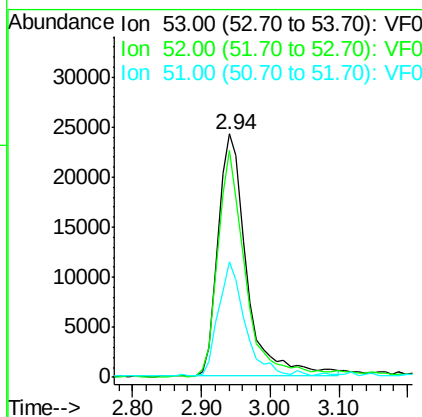
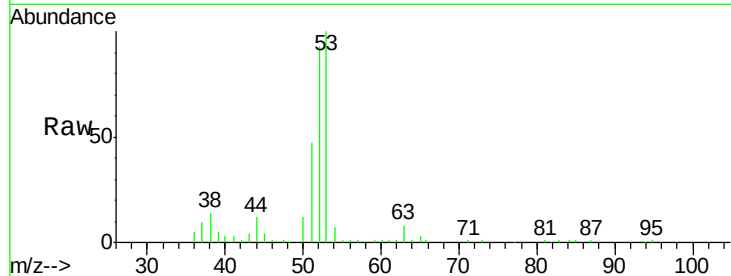
ClientSampleId :

VSTDICCC050

Tot Ion:	53	Resp:	70374
Ion	Ratio	Lower	Upper
53	100		
52	93.2	74.6	111.8
51	47.2	37.8	56.6

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#16

Acetone

Concen: 257.132 ug/l

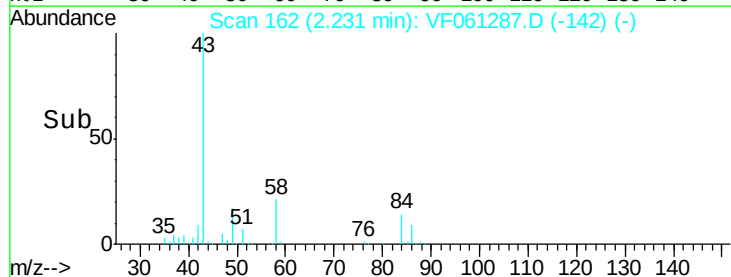
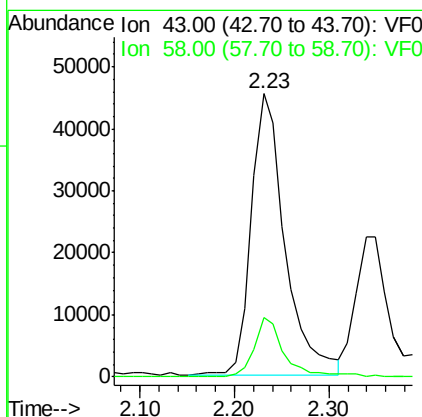
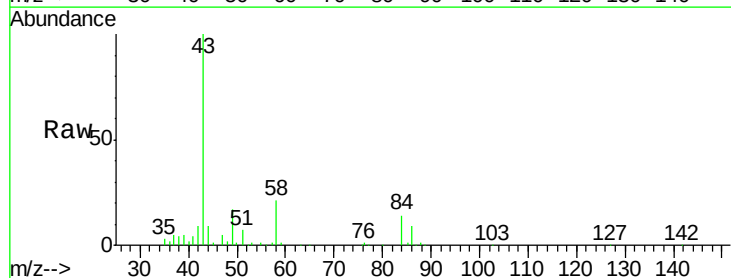
RT: 2.23 min Scan# 162

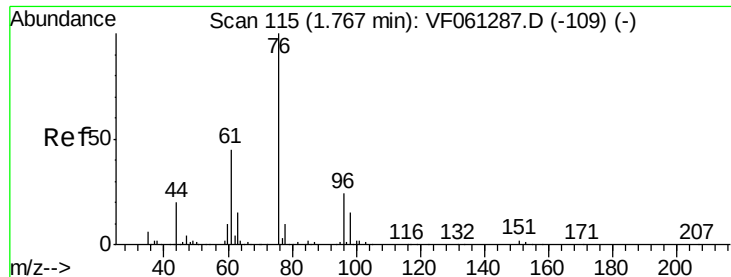
Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tgt Ion:	43	Resp:	112753
Ion	Ratio	Lower	Upper
43	100		
58	20.8	16.6	25.0





#17

Carbon Disulfide

Concen: 67.869 ug/l

RT: 1.77 min Scan# 115

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 76 Resp: 343252

Ion Ratio Lower Upper

76 100

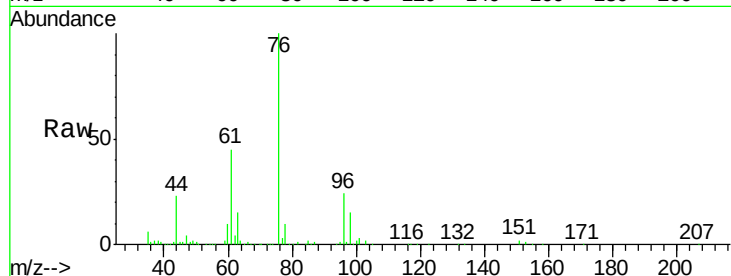
78 9.7 7.8 11.6

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Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

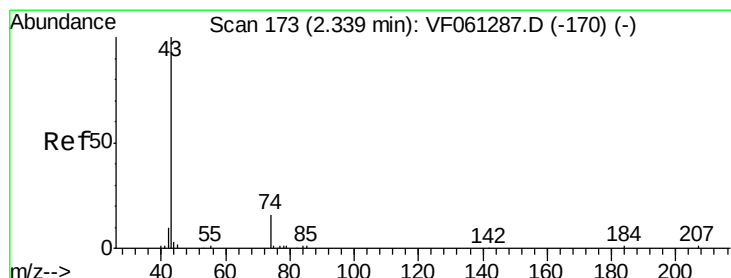
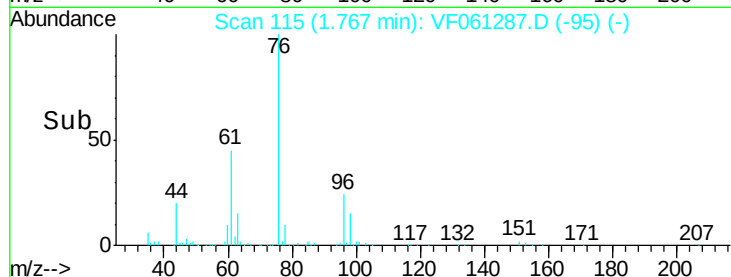
1.77

100000

50000

0

Time--> 1.60 1.70 1.80 1.90 2.00



#18

Methyl Acetate

Concen: 47.623 ug/l

RT: 2.34 min Scan# 173

Delta R.T. 0.00 min

Lab File: VF061287.D

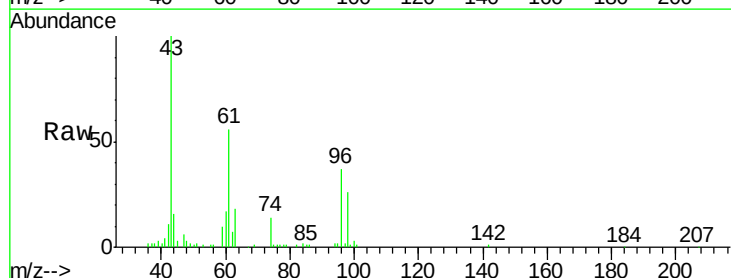
Acq: 8 Jan 2019 15:30

Tgt Ion: 43 Resp: 46212

Ion Ratio Lower Upper

43 100

74 14.5 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2.34

25000

20000

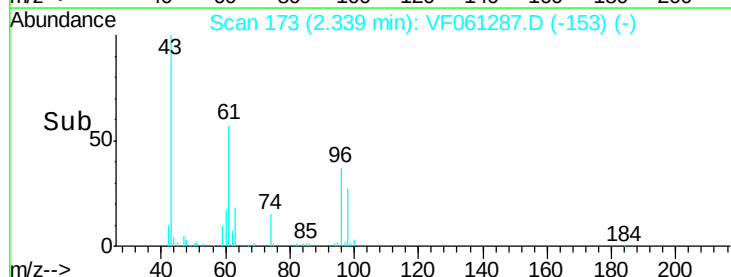
15000

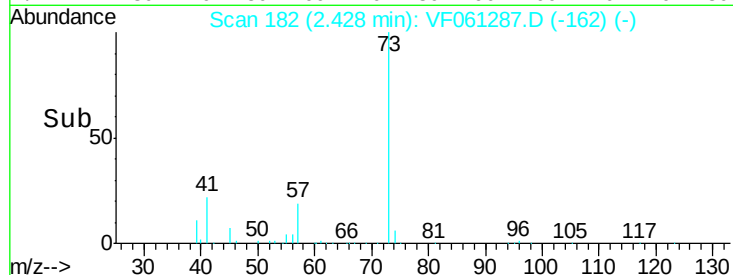
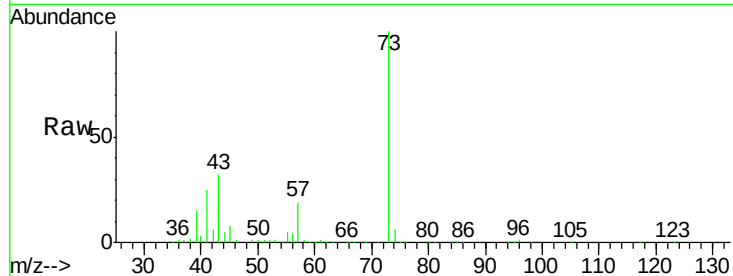
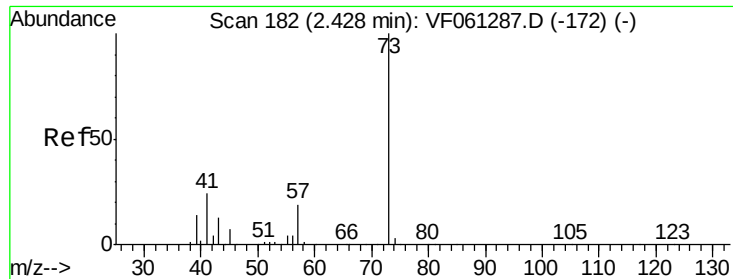
10000

5000

0

Time--> 2.30 2.35 2.40





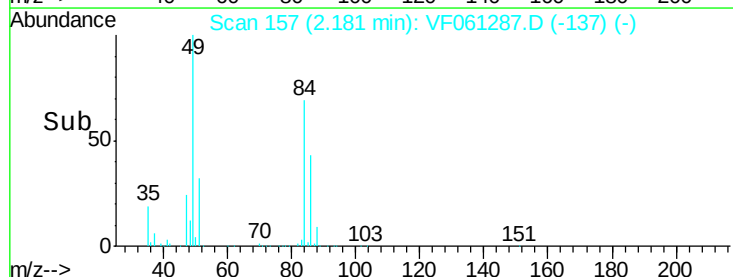
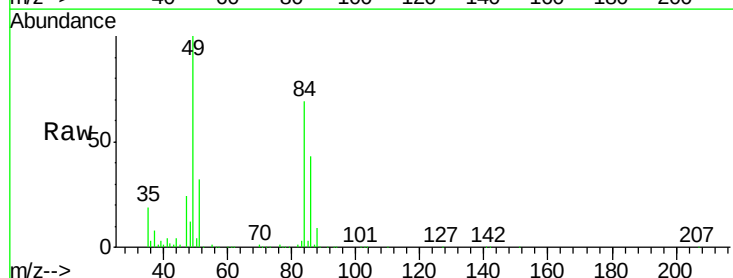
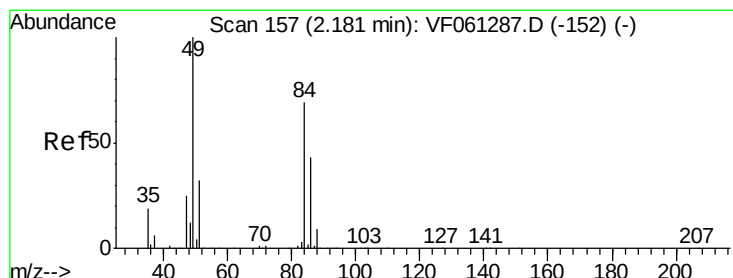
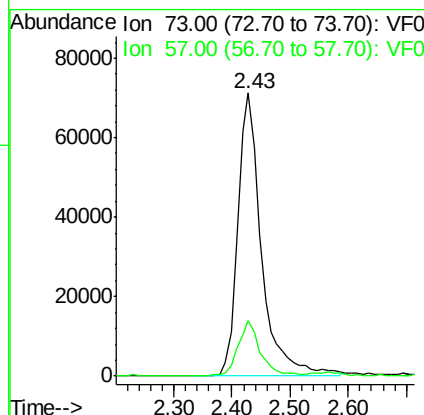
#19
Methyl tert-butyl Ether
Concen: 58.153 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tot Ion: 73 Resp: 201332
Ion Ratio Lower Upper
73 100
57 19.4 15.5 23.3

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

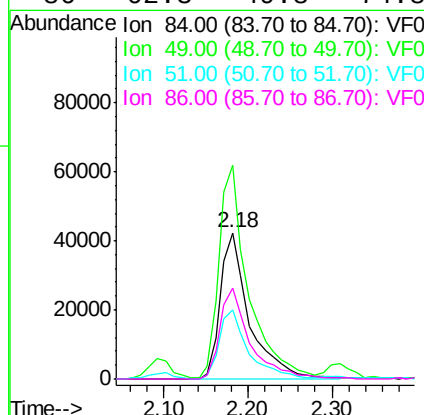
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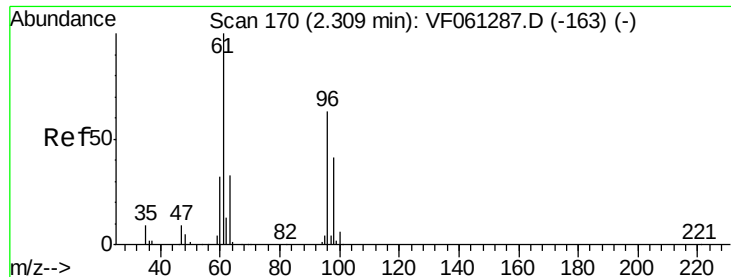
MMDadoda
1/9/2019 11:44:55 AM



#20
Methylene Chloride
Concen: 50.196 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion: 84 Resp: 102152
Ion Ratio Lower Upper
84 100
49 145.8 116.6 175.0
51 47.1 37.7 56.5
86 62.3 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 63.416 ug/l

RT: 2.31 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 96 Resp: 110780

Ion Ratio Lower Upper

96 100

61 158.7 127.0 190.4

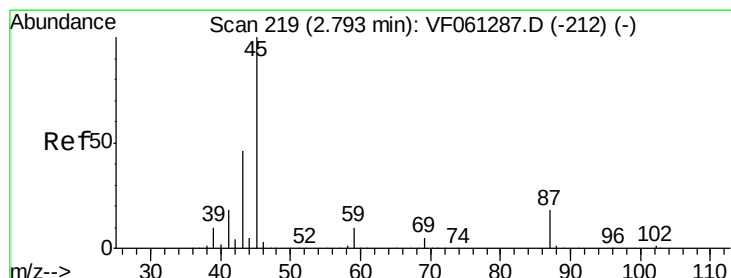
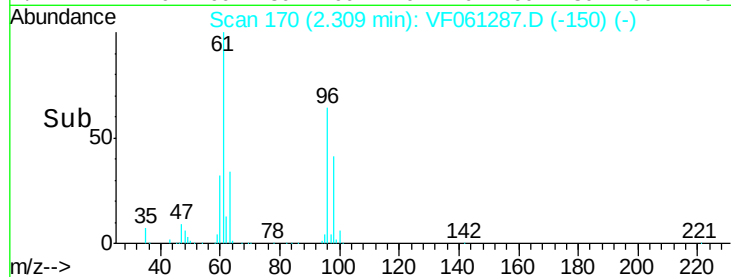
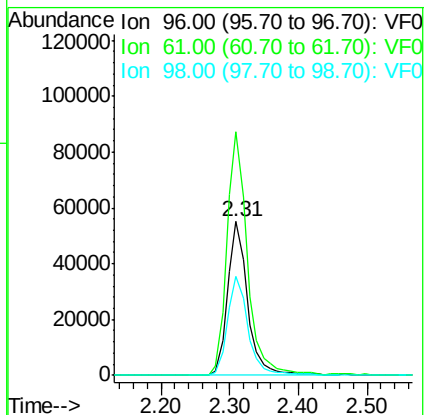
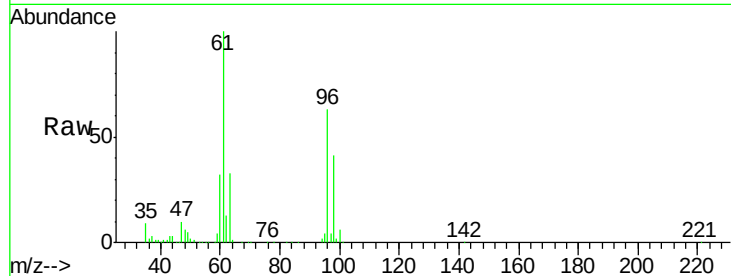
98 64.6 51.7 77.5

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#22

Diisopropyl ether

Concen: 62.059 ug/l

RT: 2.79 min Scan# 219

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tgt Ion: 45 Resp: 358315

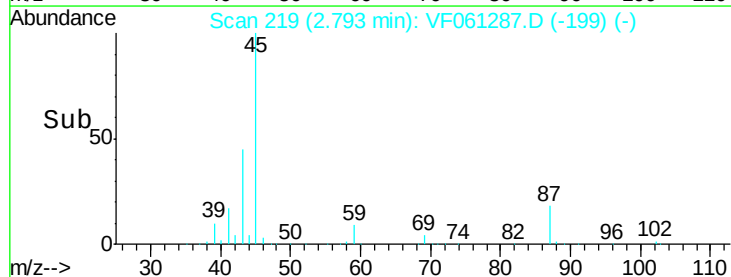
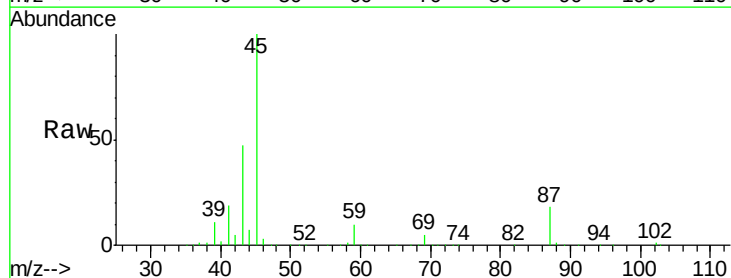
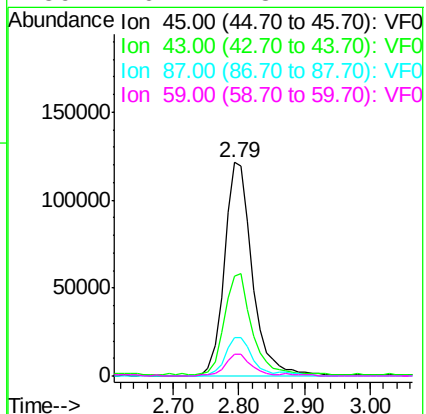
Ion Ratio Lower Upper

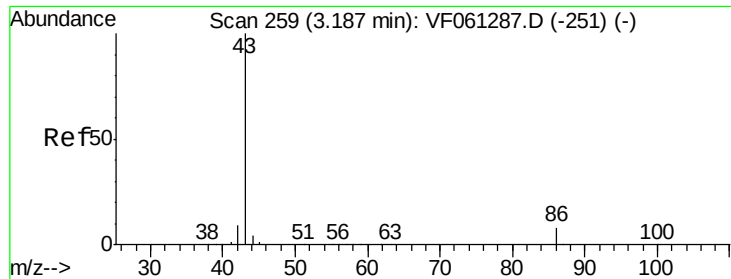
45 100

43 46.8 37.4 56.2

87 17.7 14.2 21.2

59 10.2 8.2 12.2





#23

Vinyl Acetate

Concen: 196.693 ug/l

RT: 3.19 min Scan# 259

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 520088

Ion Ratio Lower Upper

43 100

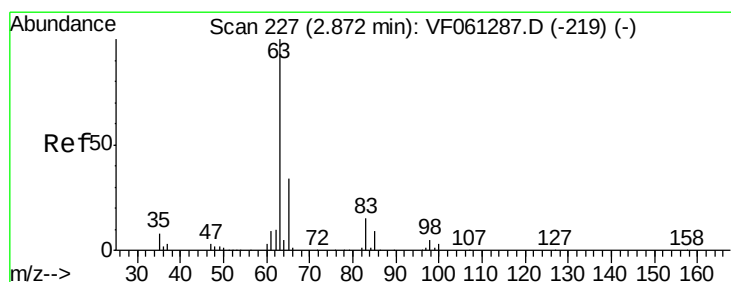
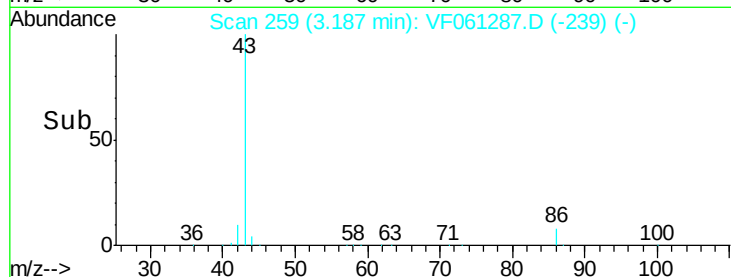
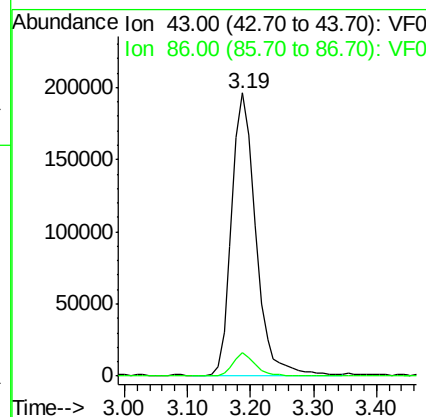
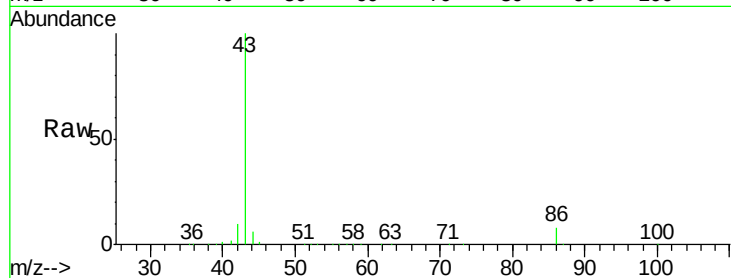
86 8.1 6.5 9.7

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#24

1,1-Dichloroethane

Concen: 59.673 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

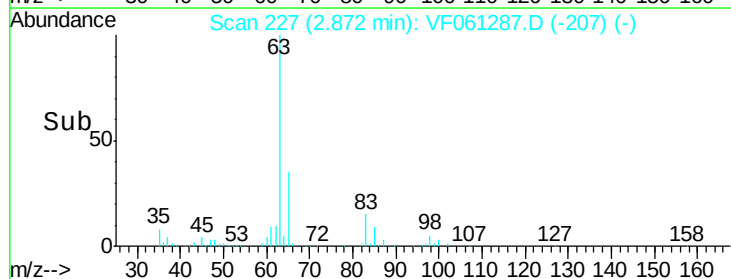
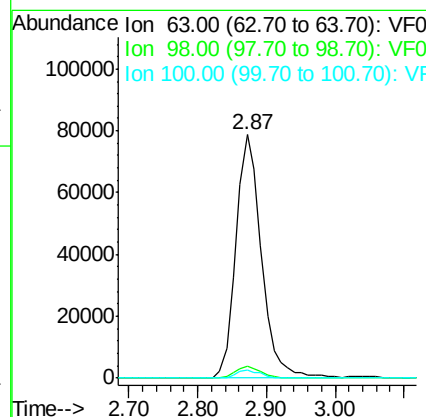
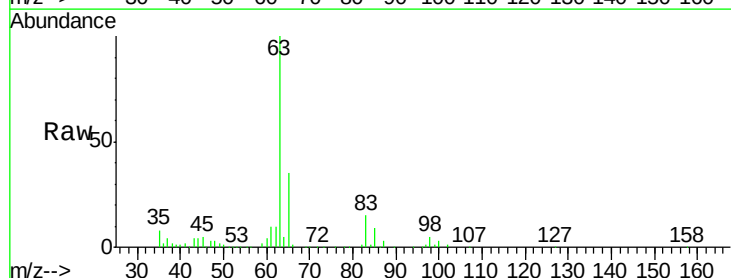
Tgt Ion: 63 Resp: 202002

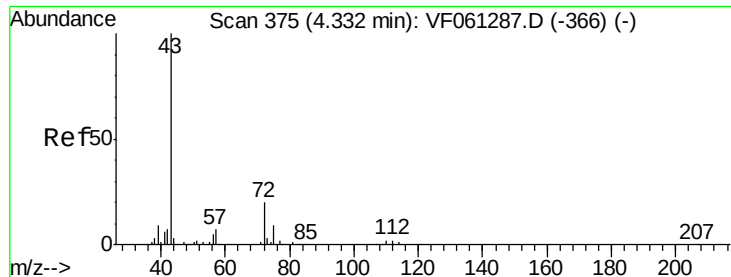
Ion Ratio Lower Upper

63 100

98 5.1 2.5 7.6

100 3.3 1.7 5.0





#25

2-Butanone

Concen: 212.899 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 175247

Ion Ratio Lower Upper

43 100

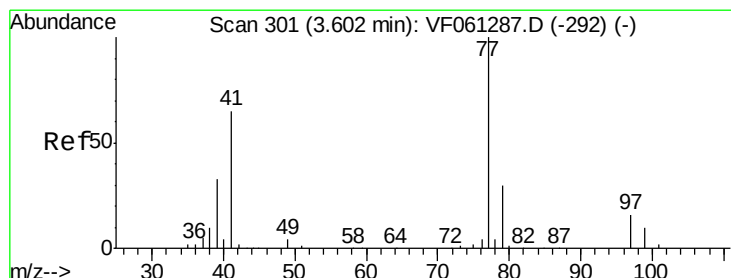
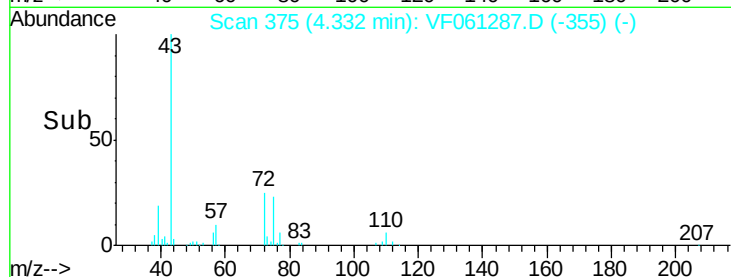
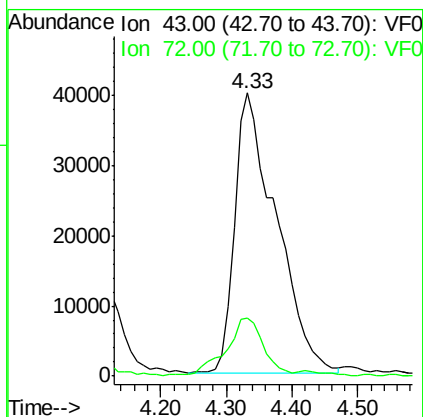
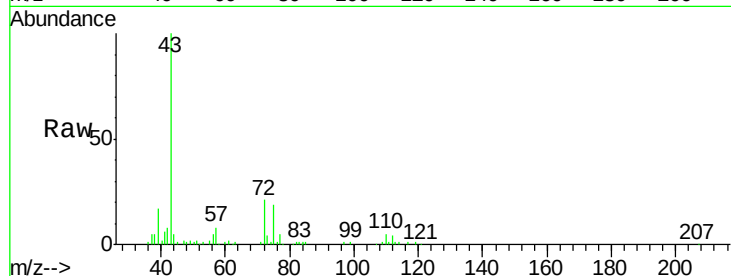
72 20.6 16.5 24.7

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 72.428 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.00 min

Lab File: VF061287.D

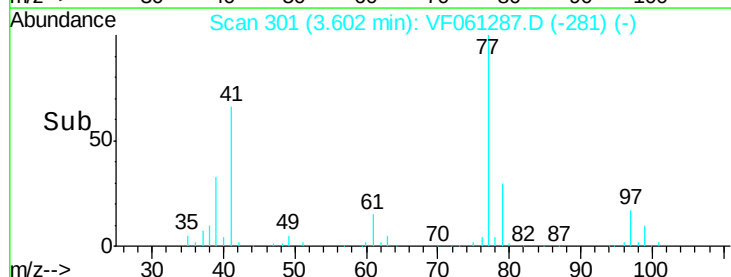
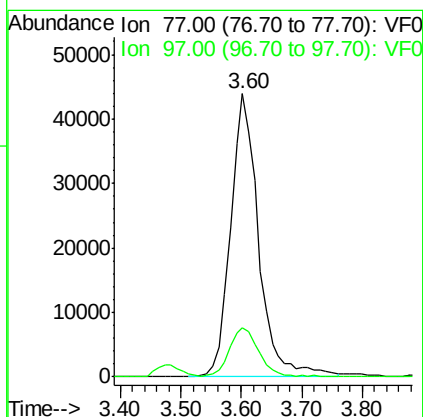
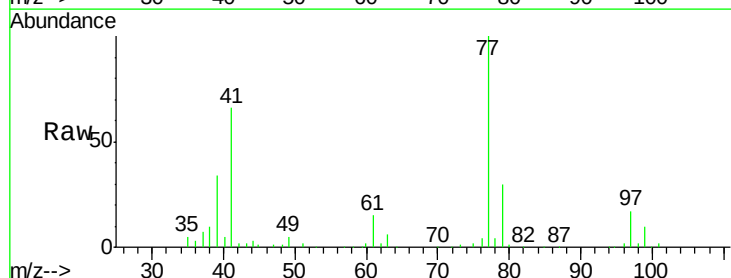
Acq: 8 Jan 2019 15:30

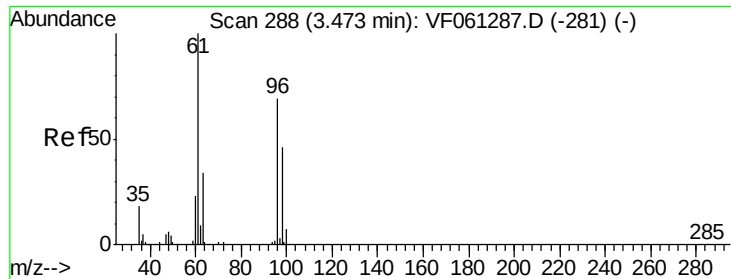
Tgt Ion: 77 Resp: 141191

Ion Ratio Lower Upper

77 100

97 17.3 8.6 25.9





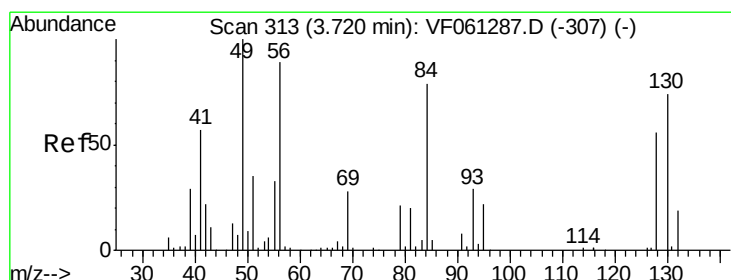
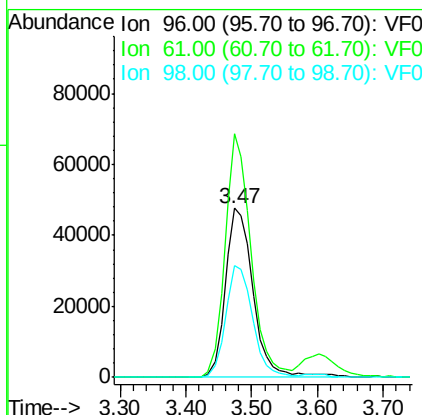
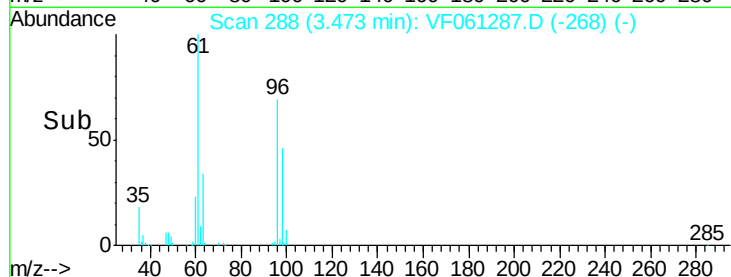
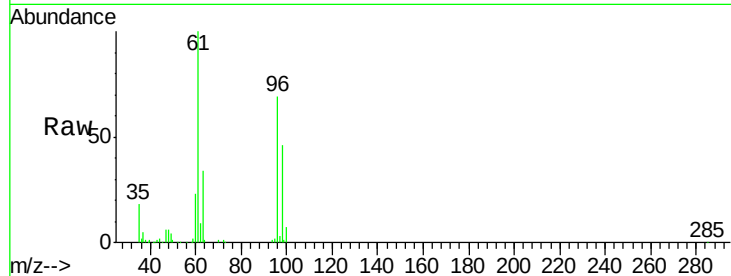
#27
 cis-1,2-Dichloroethene
 Concen: 54.989 ug/l
 RT: 3.47 min Scan# 288
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	141155		
61	144.1	0.0	288.2	
98	66.1	0.0	132.2	

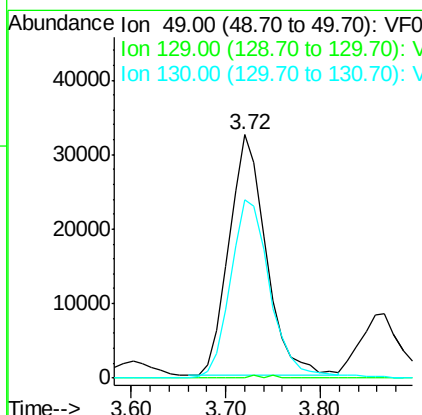
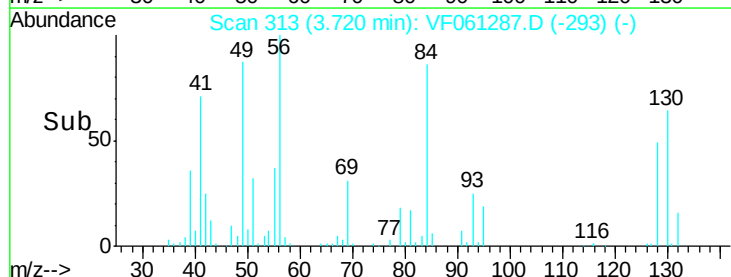
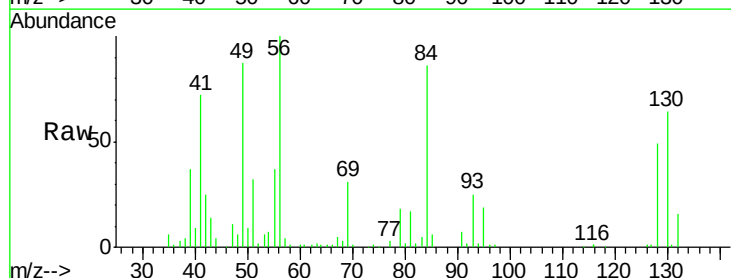
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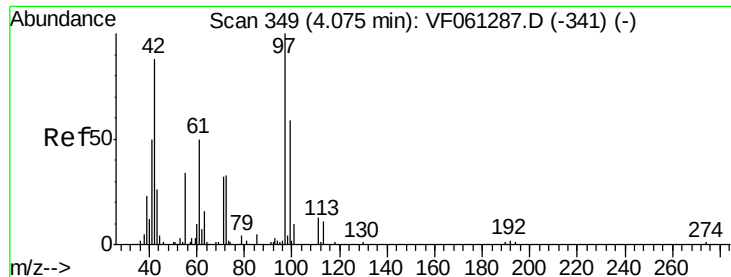
MMDadoda
 1/9/2019 11:44:55 AM



#28
 Bromochloromethane
 Concen: 55.065 ug/l
 RT: 3.72 min Scan# 313
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	88241		
129	0.0	0.0	0.0	
130	73.3	58.6	88.0	





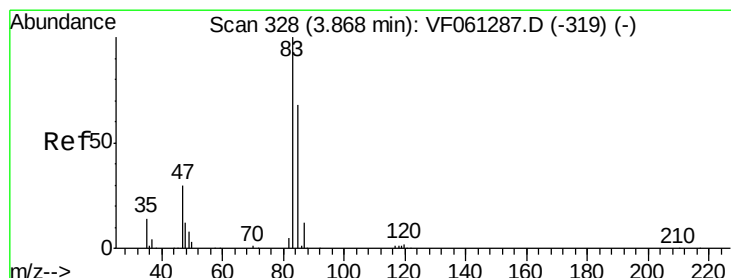
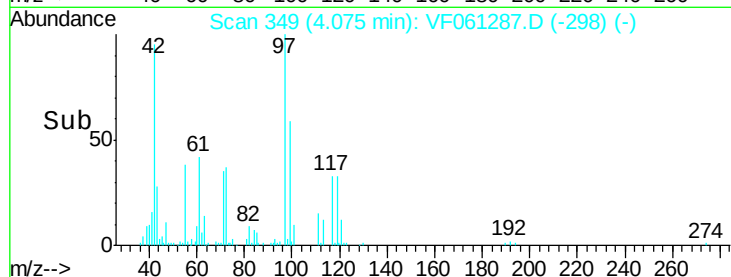
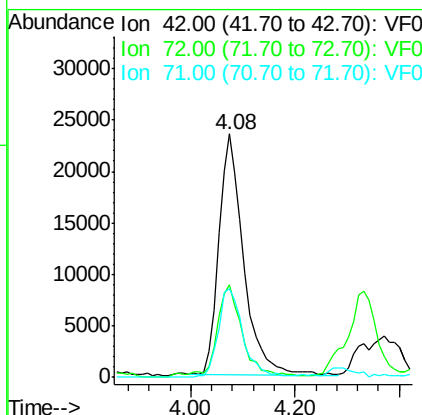
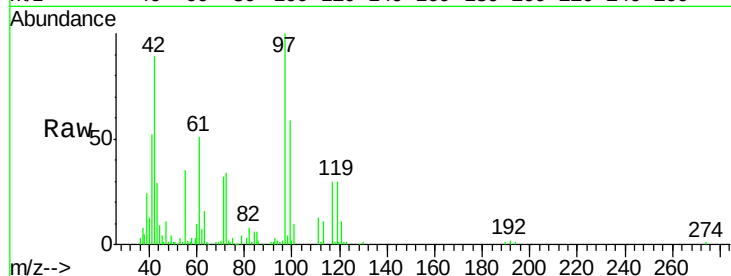
#29
Tetrahydrofuran
Concen: 240.306 ug/l
RT: 4.08 min Scan# 349
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.4	32.3	48.5
71	36.9	29.5	44.3

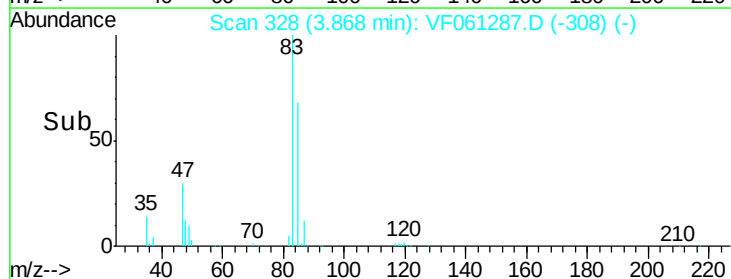
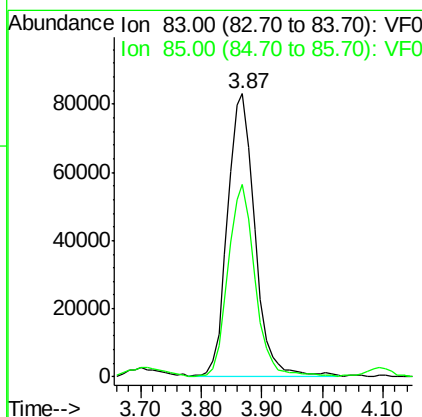
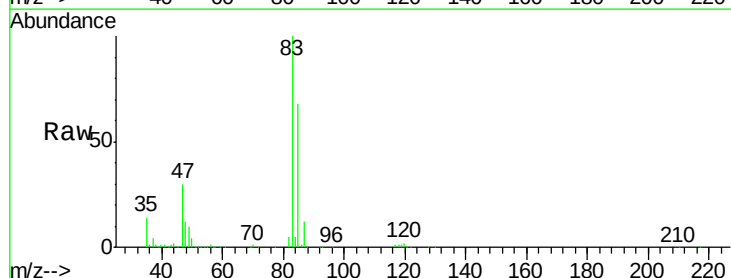
Manual Integrations
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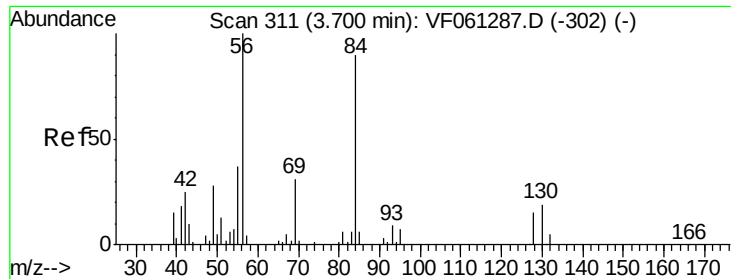
MMDadoda
1/9/2019 11:44:55 AM



#30
Chloroform
Concen: 54.765 ug/l
RT: 3.87 min Scan# 328
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.0	54.4	81.6





#31

Cyclohexane

Concen: 59.201 ug/l

RT: 3.70 min Scan# 311

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

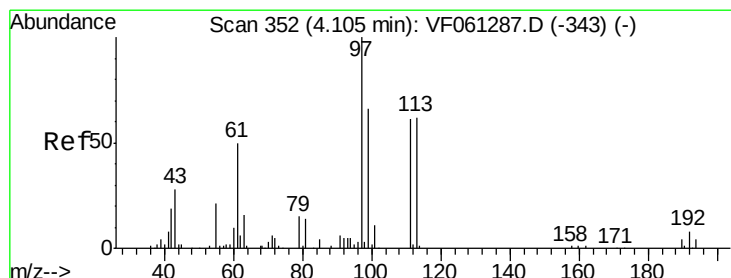
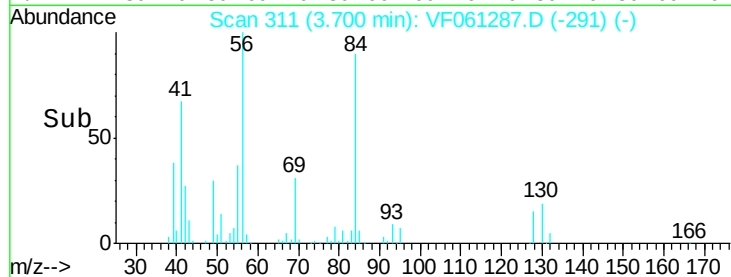
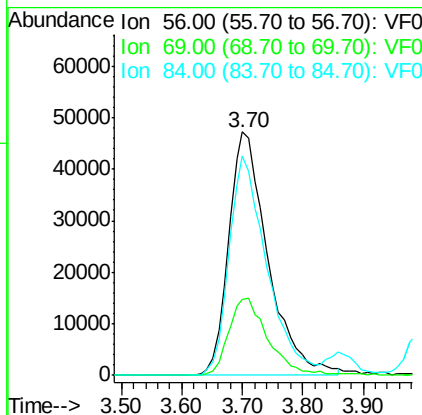
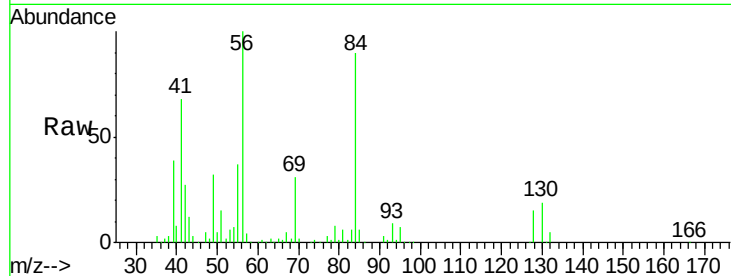
ClientSampleId :

VSTDICCC050

Tot Ion:	56	Resp:	212410
Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.7	37.1
84	90.3	72.2	108.4

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#32

1,1,1-Trichloroethane

Concen: 71.296 ug/l

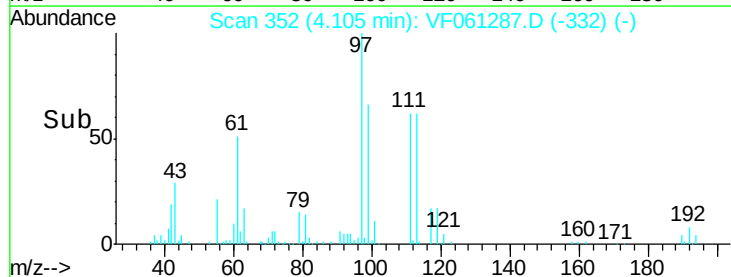
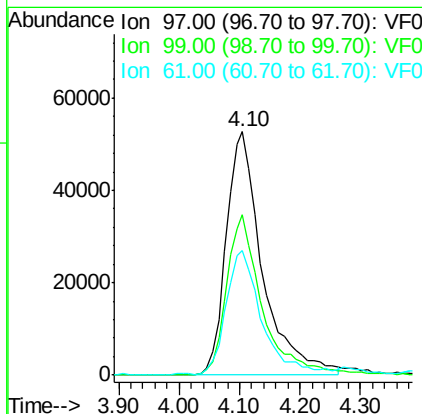
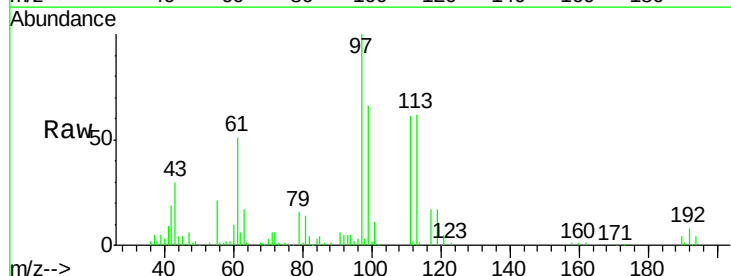
RT: 4.10 min Scan# 352

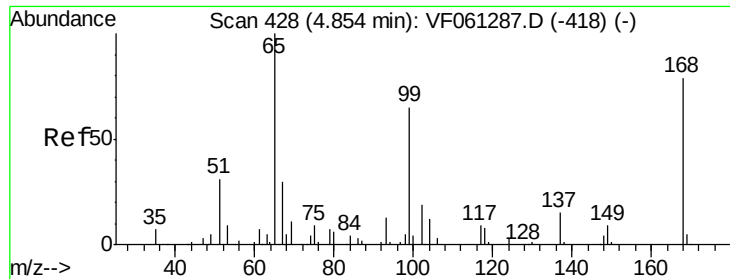
Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tgt Ion:	97	Resp:	219275
Ion	Ratio	Lower	Upper
97	100		
99	65.9	52.7	79.1
61	51.0	40.8	61.2





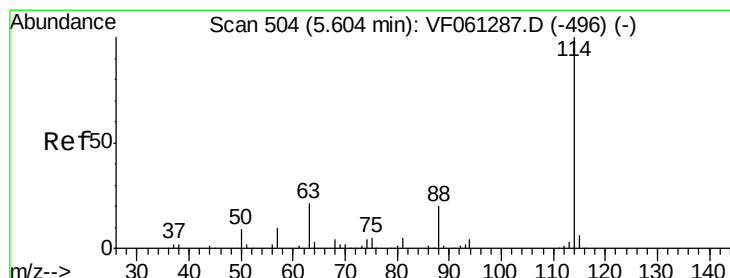
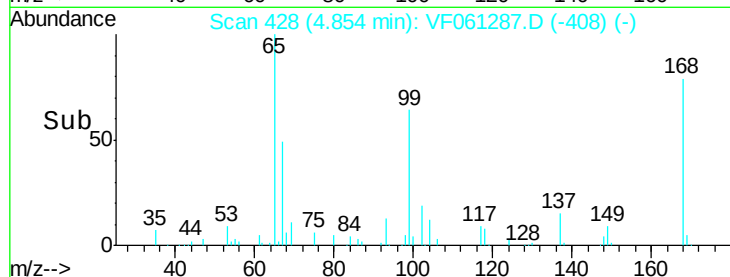
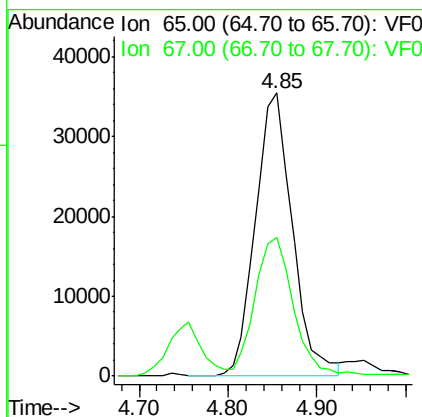
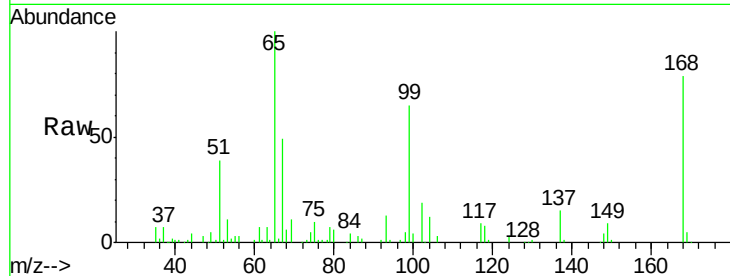
#33
 1,2-Dichloroethane-d4
 Concen: 46.657 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	102159		
67	49.1	0.0	98.2	

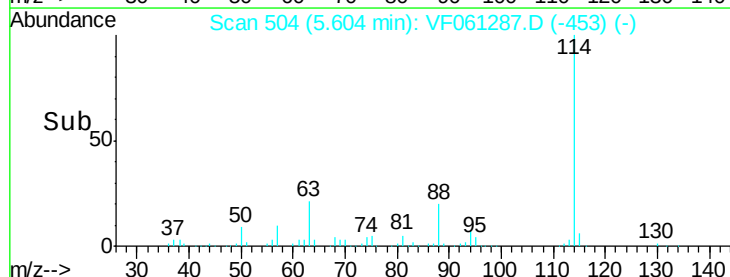
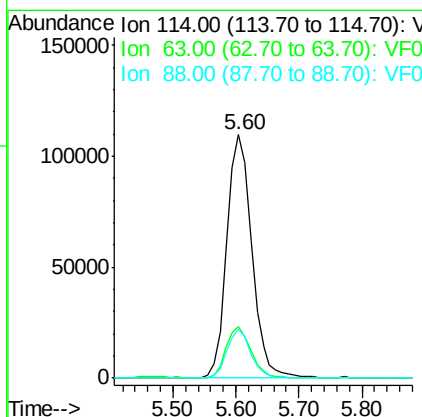
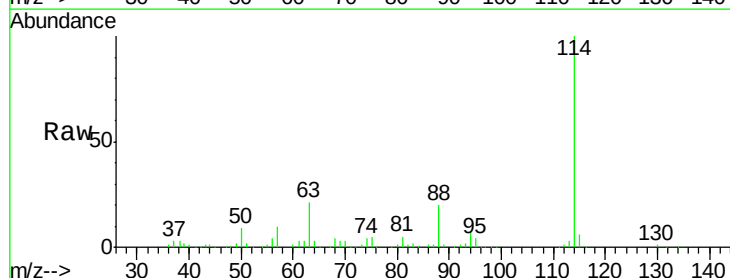
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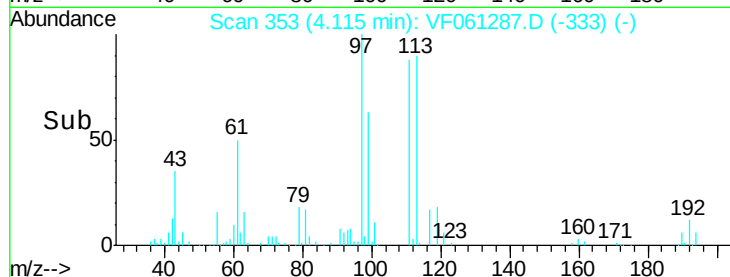
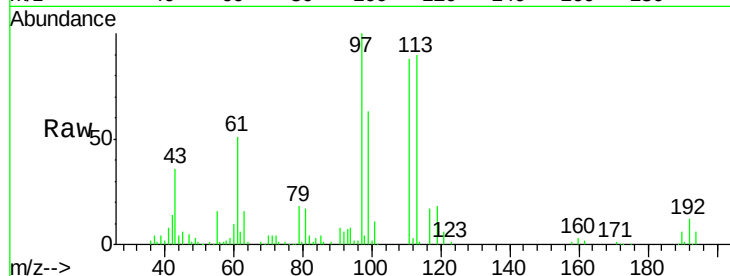
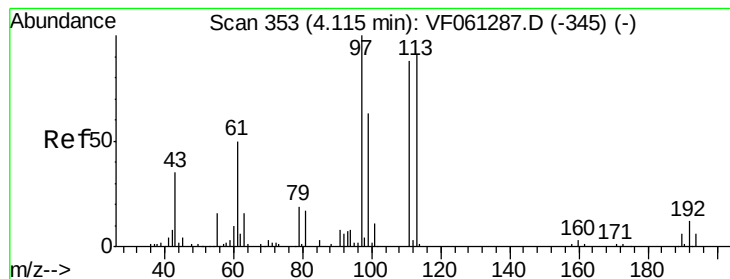
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	301738		
63	21.4	0.0	42.8	
88	20.0	0.0	40.0	





#35

Dibromofluoromethane

Concen: 53.360 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF061287.D

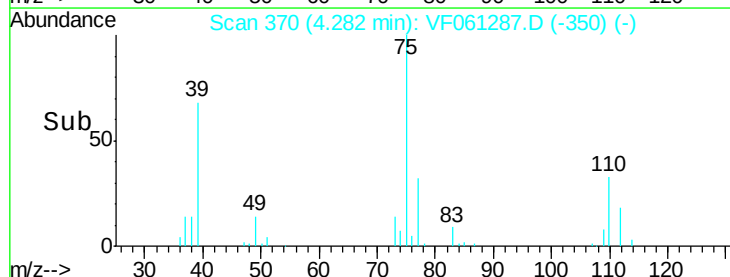
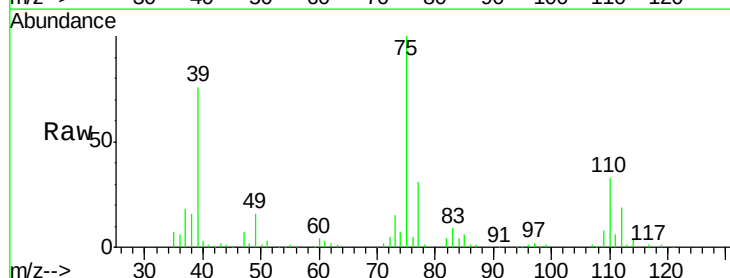
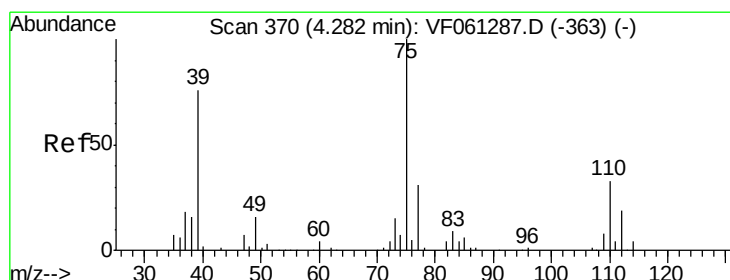
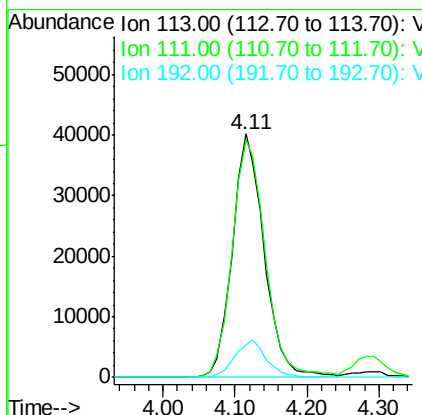
Acq: 8 Jan 2019 15:30

Tot Ion:	113	Resp:	123872
Ion Ratio	Lower	Upper	
113	100		
111	97.5	78.0	117.0
192	13.3	10.6	16.0

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

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#36

1,1-Dichloropropene

Concen: 51.264 ug/l

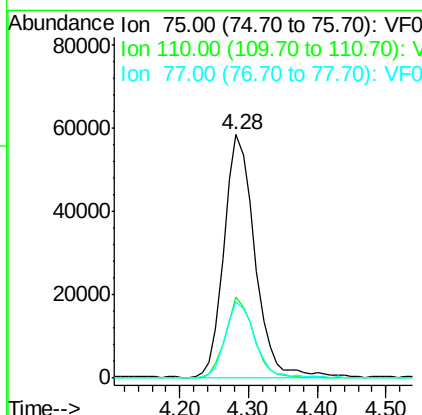
RT: 4.28 min Scan# 370

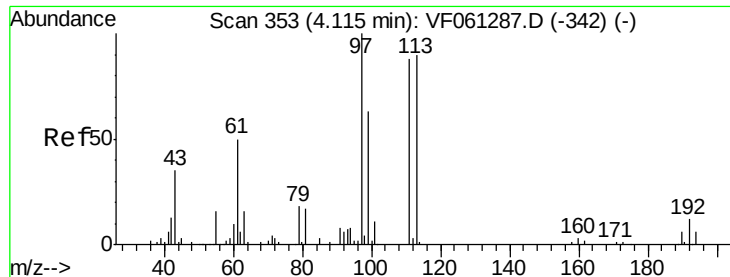
Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tgt Ion:	75	Resp:	182178
Ion Ratio	Lower	Upper	
75	100		
110	33.2	16.6	49.8
77	31.4	25.1	37.7





#37

Ethyl Acetate

Concen: 43.977 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 62398

Ion Ratio Lower Upper

43 100

61 141.6 113.3 169.9

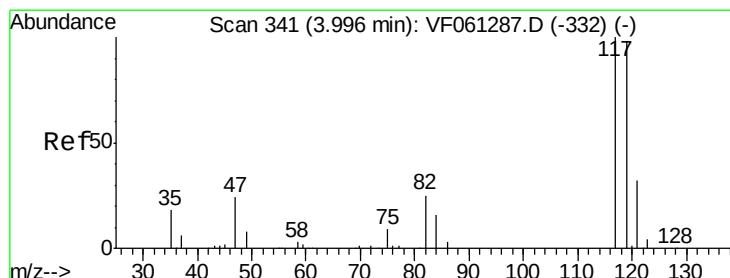
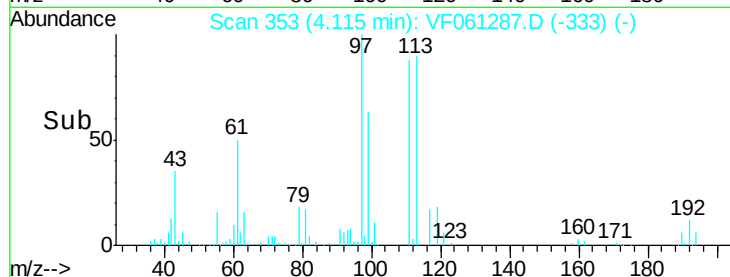
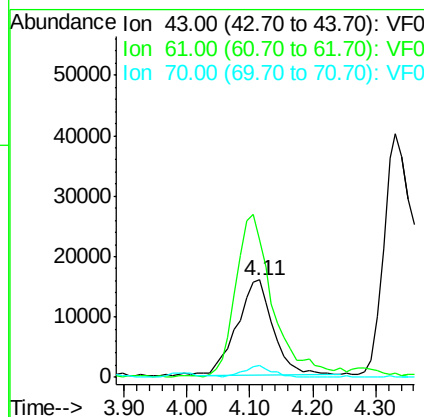
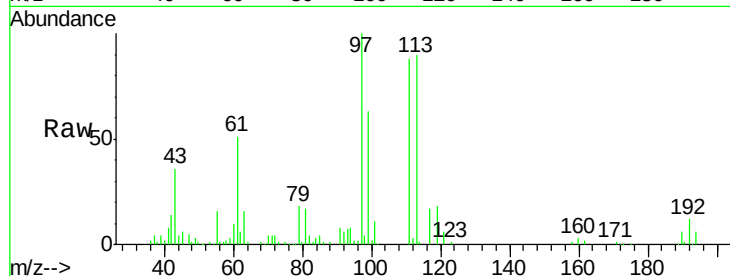
70 11.7 9.4 14.0

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#38

Carbon Tetrachloride

Concen: 65.268 ug/l

RT: 4.00 min Scan# 341

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

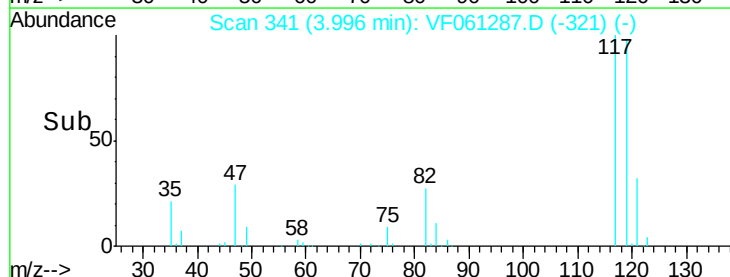
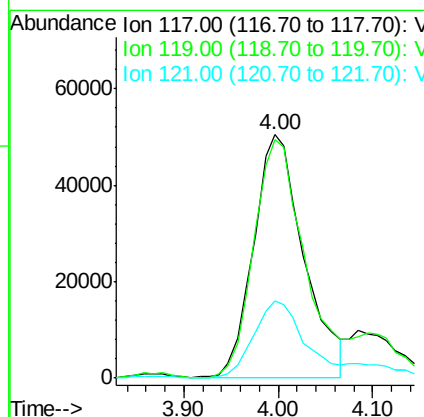
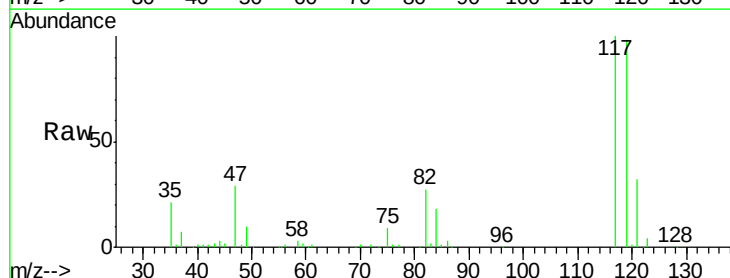
Tgt Ion: 117 Resp: 185694

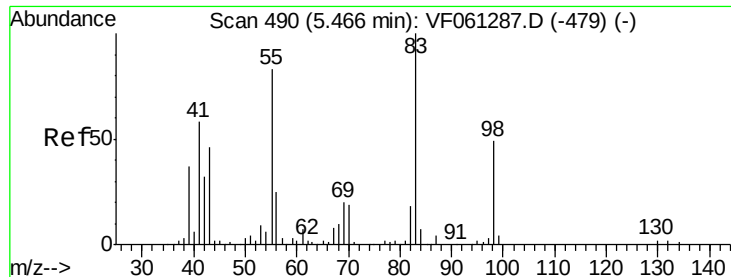
Ion Ratio Lower Upper

117 100

119 98.1 78.5 117.7

121 31.6 25.3 37.9





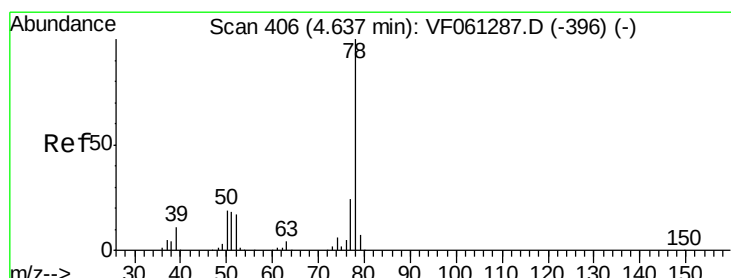
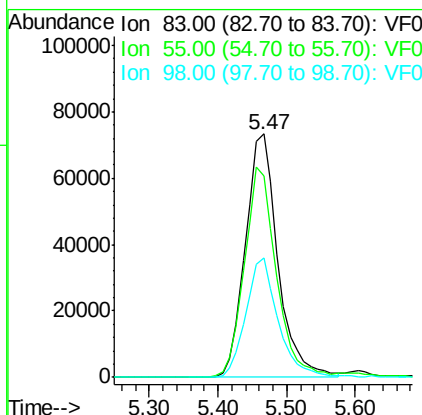
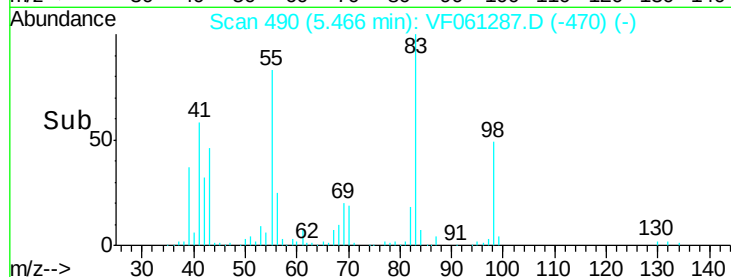
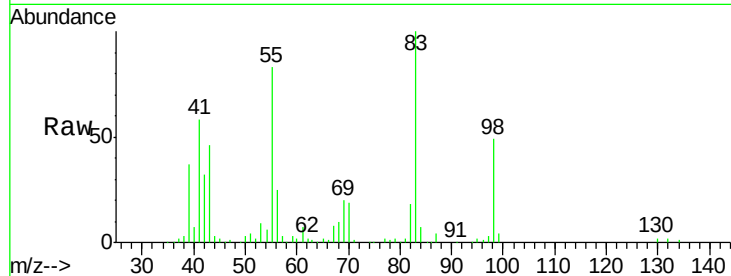
#39
Methylvlcyclohexane
Concen: 63.592 ug/l
RT: 5.47 min Scan# 490
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	241567		
55	83.0		66.4	99.6
98	48.9		39.1	58.7

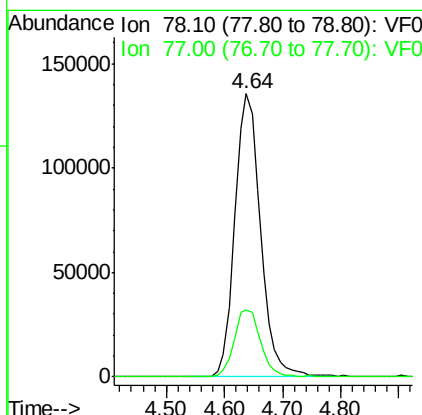
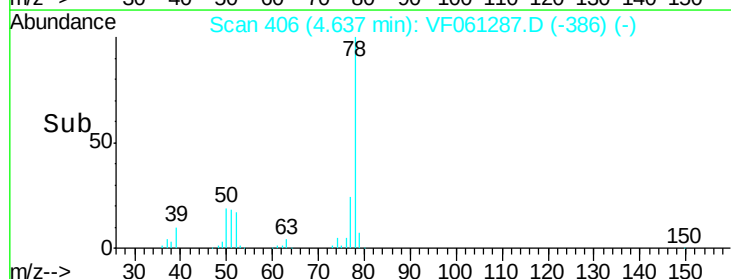
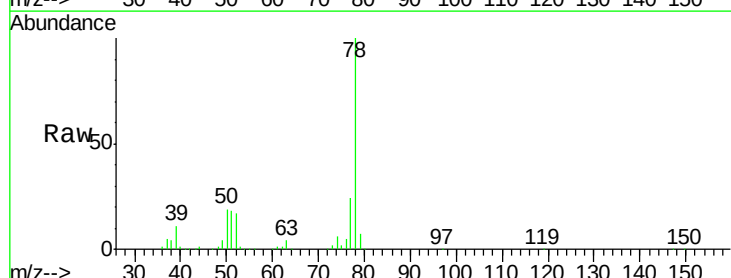
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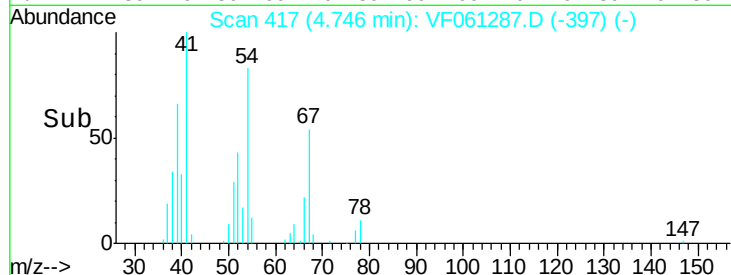
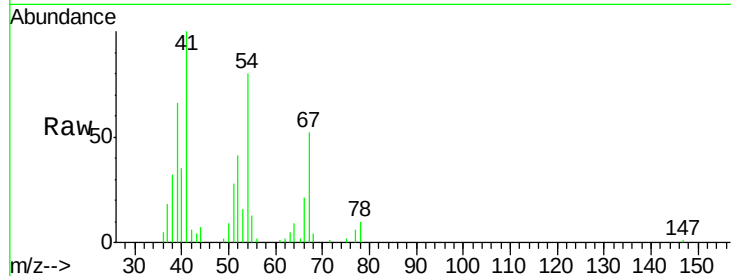
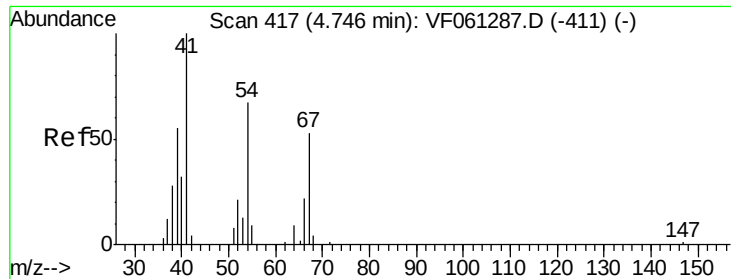
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#40
Benzene
Concen: 51.818 ug/l
RT: 4.64 min Scan# 406
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	417924		
77	23.9		19.1	28.7





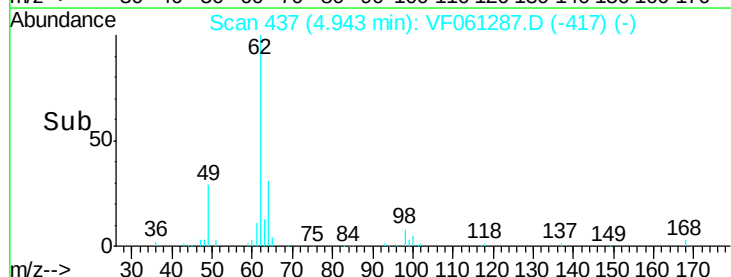
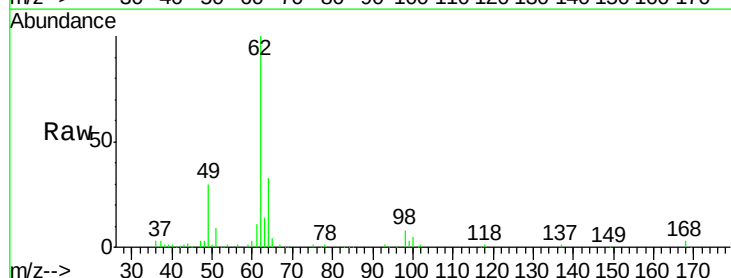
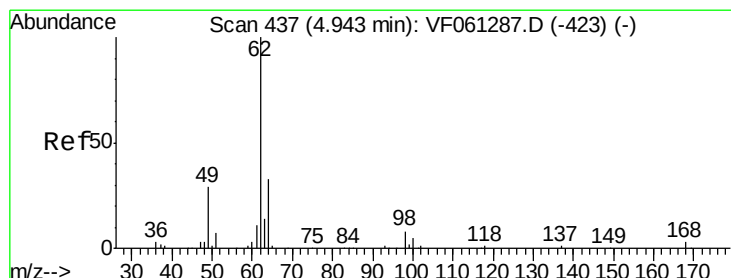
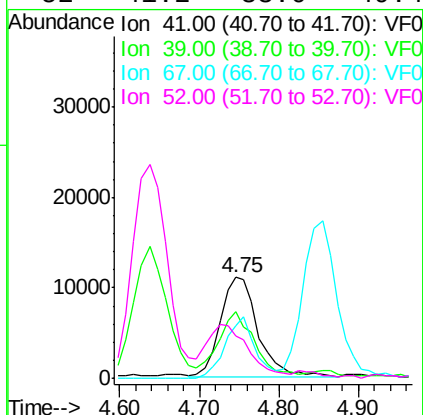
#41
Methacrylonitrile
Concen: 44.655 ug/l
RT: 4.75 min Scan# 417
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	41	100			
39	39	65.9	52.7	79.1	
67	67	51.8	41.4	62.2	
52	52	41.2	33.0	49.4	

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

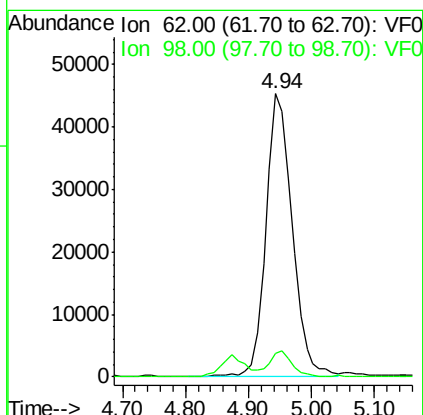
Manual Integrations
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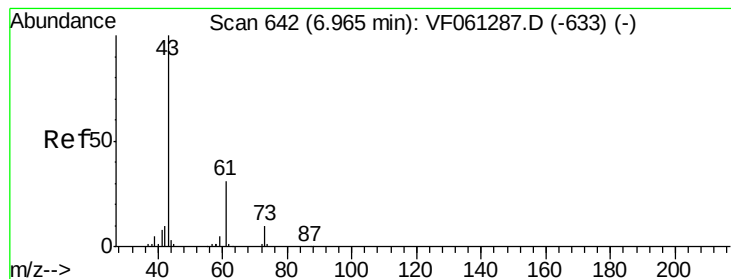
MMDadoda
1/9/2019 11:44:55 AM



#42
1,2-Dichloroethane
Concen: 48.786 ug/l
RT: 4.94 min Scan# 437
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	62	100			
98	98	8.4	0.0	16.8	





#43

Isopropyl Acetate

Concen: 45.723 ug/l

RT: 6.97 min Scan# 642

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

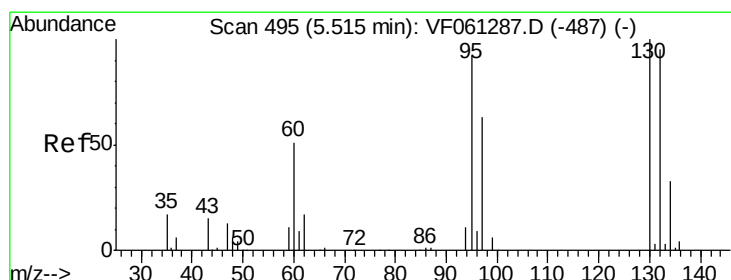
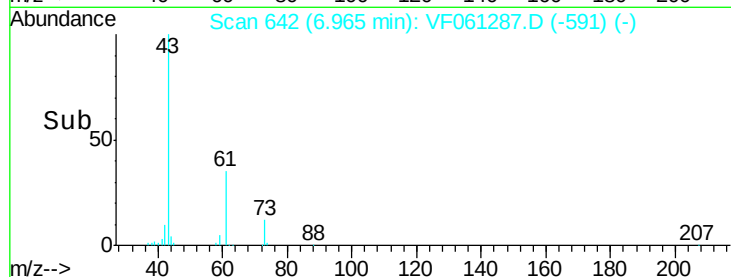
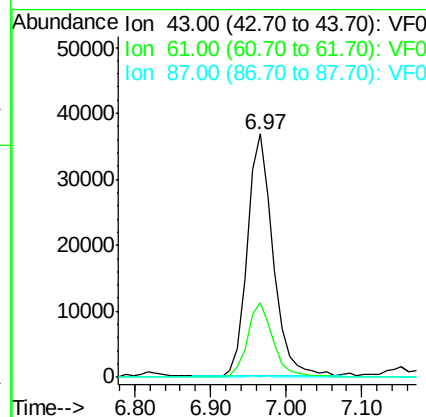
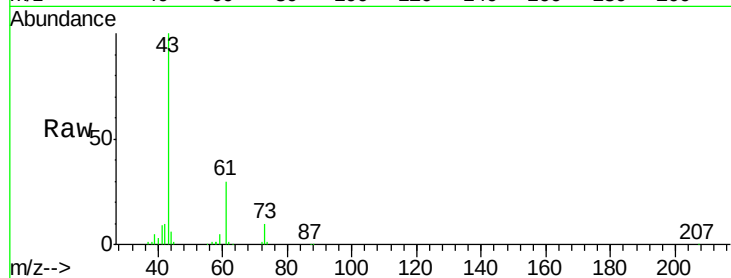
ClientSampleId :

VSTDICCC050

Tot Ion:	43	Resp:	86565
Ion	Ratio	Lower	Upper
43	100		
61	30.4	24.3	36.5
87	0.3	0.2	0.4

Manual Integrations
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#44

Trichloroethene

Concen: 49.966 ug/l

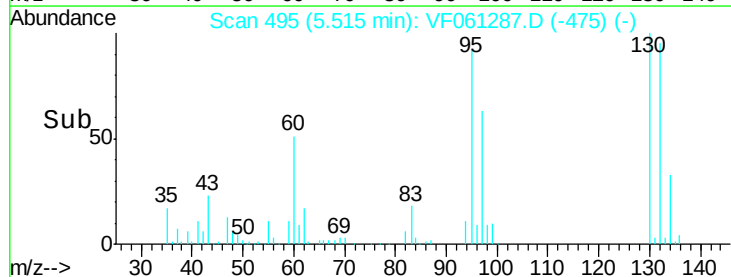
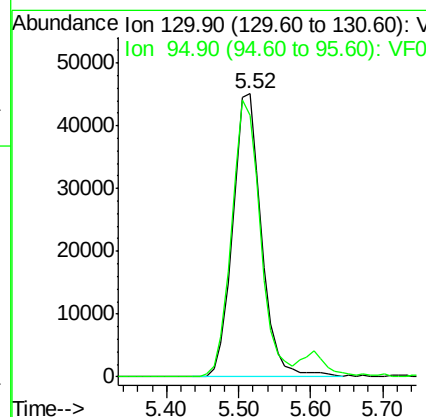
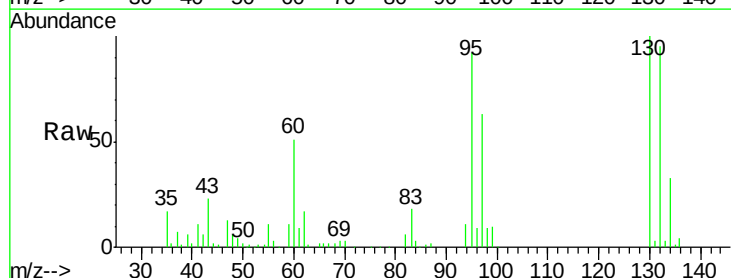
RT: 5.52 min Scan# 495

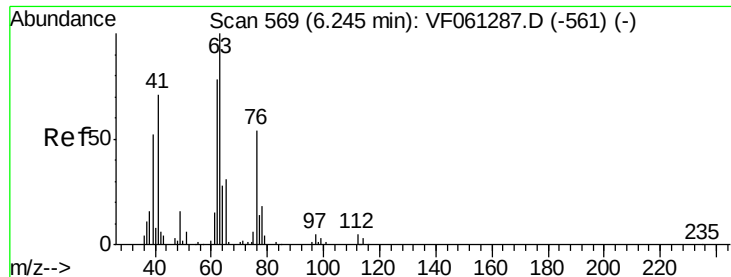
Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tgt Ion:	130	Resp:	125439
Ion	Ratio	Lower	Upper
130	100		
95	92.2	0.0	184.4





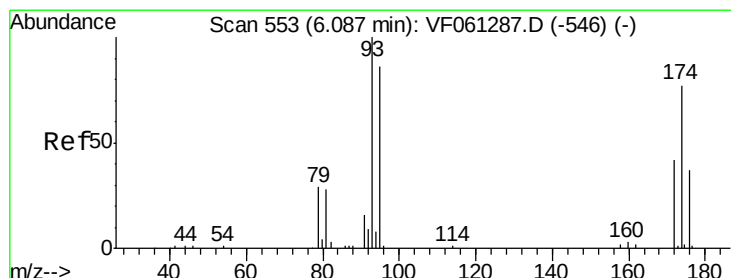
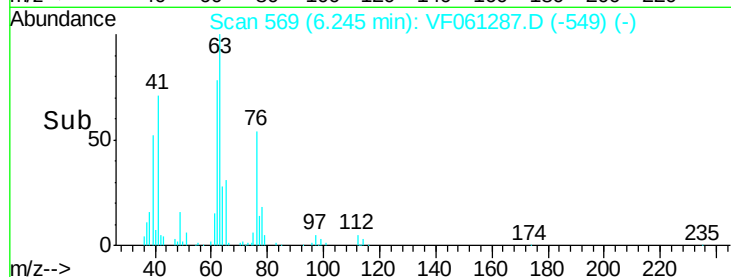
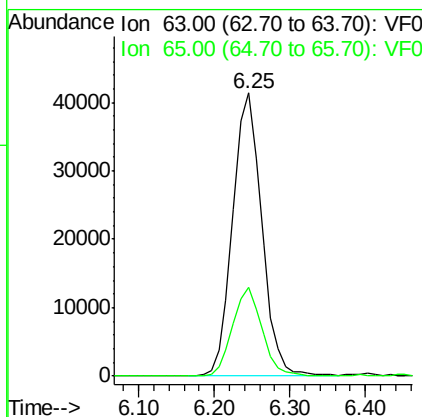
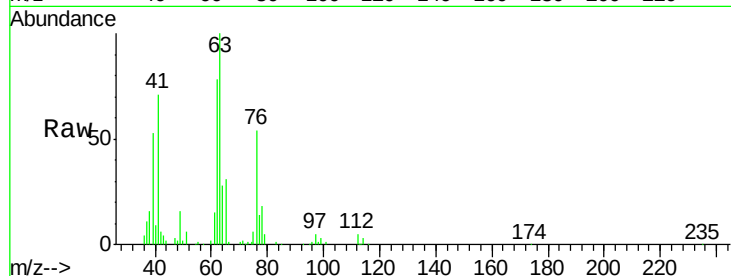
#45
 1,2-Dichloropropane
 Concen: 53.790 ug/l
 RT: 6.25 min Scan# 569
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion: 63 Resp: 110757
 Ion Ratio Lower Upper
 63 100
 65 31.4 25.1 37.7

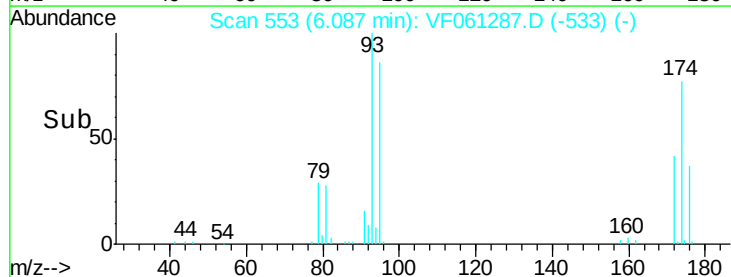
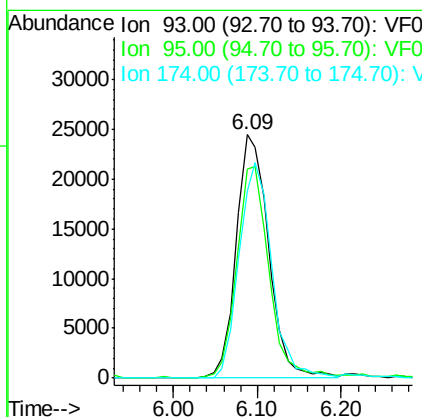
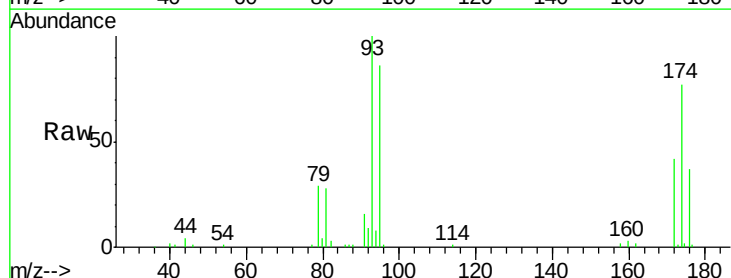
Manual Integrations
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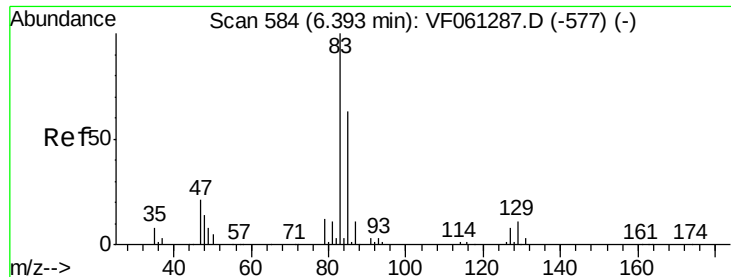
MMDadoda
 1/9/2019 11:44:55 AM



#46
 Dibromomethane
 Concen: 48.858 ug/l
 RT: 6.09 min Scan# 553
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Tgt Ion: 93 Resp: 66197
 Ion Ratio Lower Upper
 93 100
 95 86.0 68.8 103.2
 174 78.6 62.9 94.3





#47

Bromodichloromethane

Concen: 49.927 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

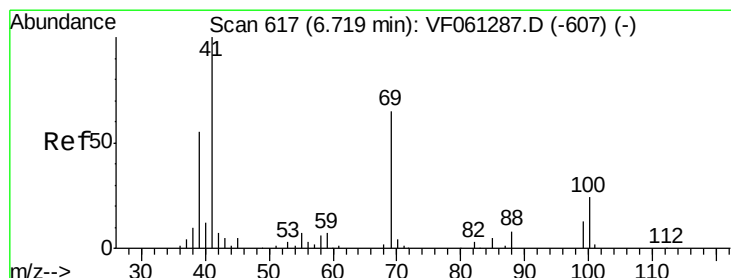
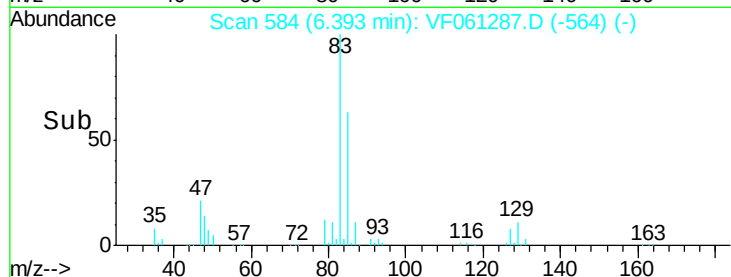
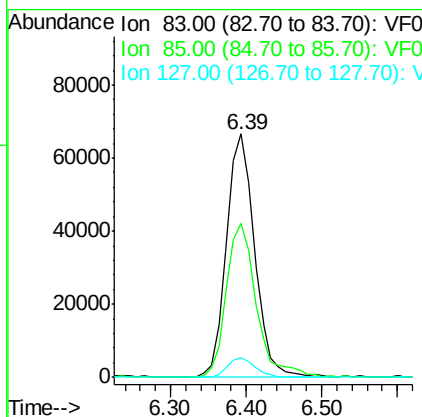
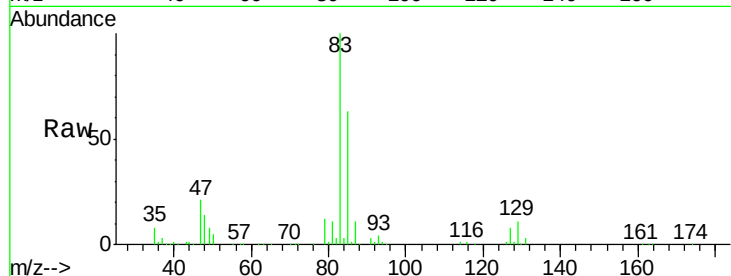
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	172195
Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.4	75.6
127	8.0	6.4	9.6

Manual Integrations
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MMDadoda
1/9/2019 11:44:55 AM



#48

Methyl methacrylate

Concen: 49.528 ug/l

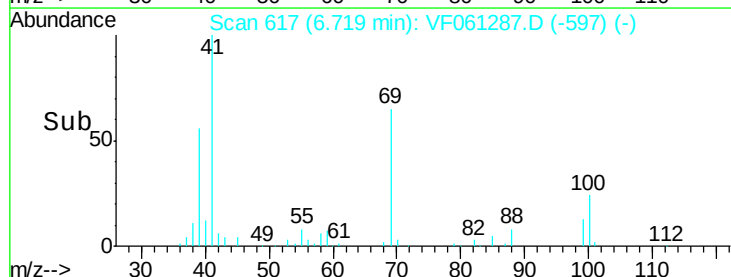
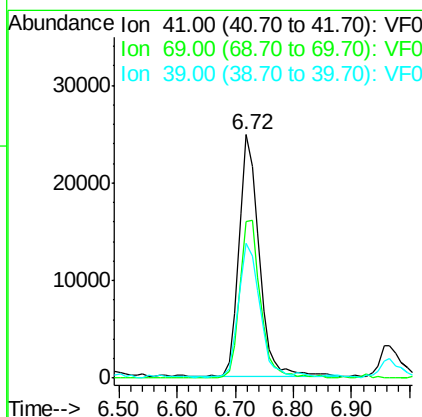
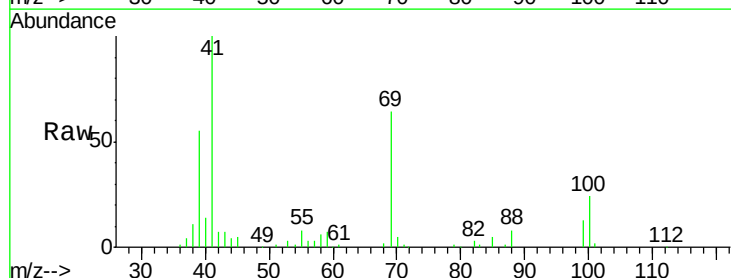
RT: 6.72 min Scan# 617

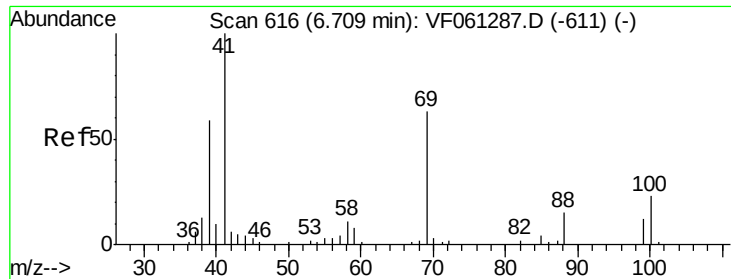
Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tgt Ion:	41	Resp:	60718
Ion	Ratio	Lower	Upper
41	100		
69	64.4	51.5	77.3
39	55.1	44.1	66.1





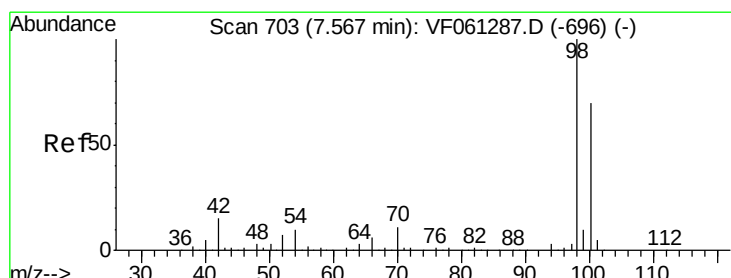
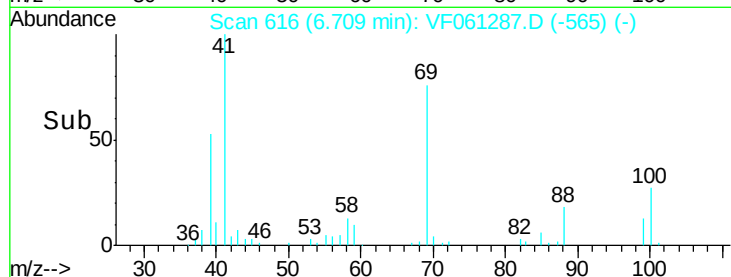
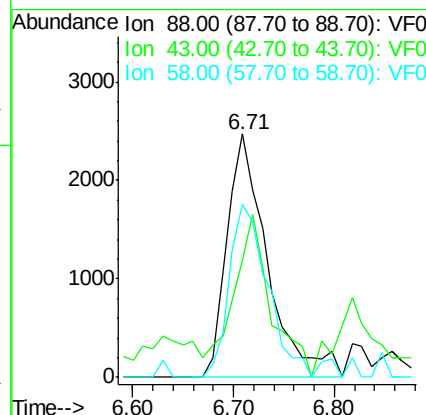
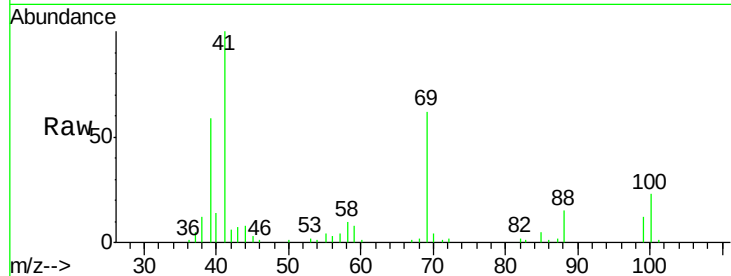
#49
1,4-Dioxane
Concen: 811.474 ug/l
RT: 6.71 min Scan# 616
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	48.1	38.5	57.7
58	71.2	57.0	85.4

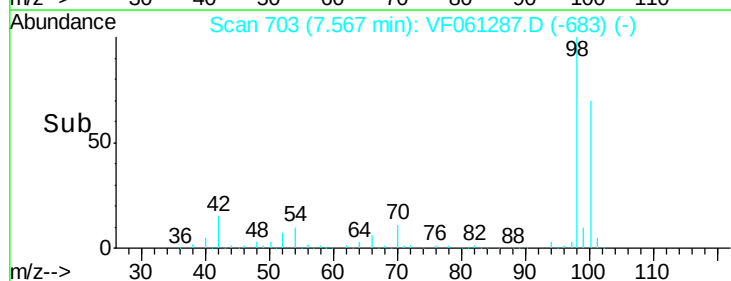
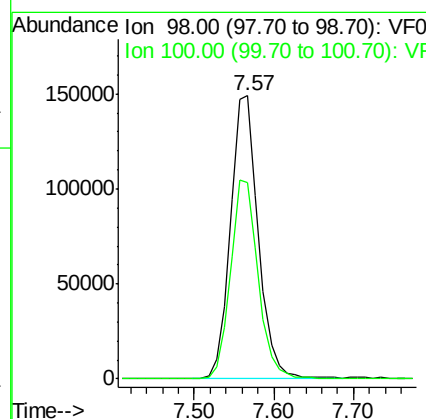
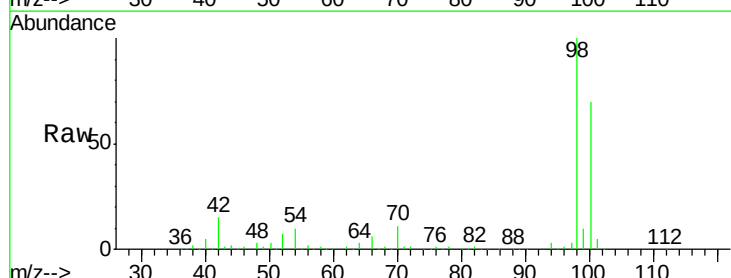
Manual Integrations
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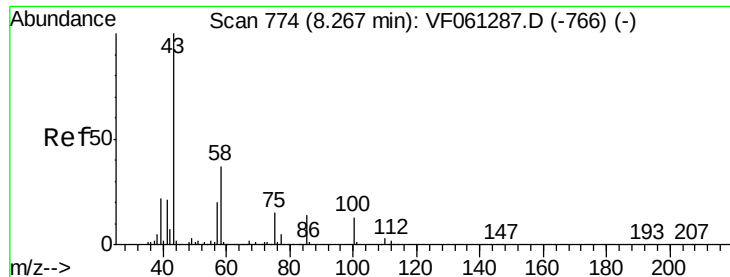
MMDadoda
1/9/2019 11:44:55 AM



#50
Toluene-d8
Concen: 53.083 ug/l
RT: 7.57 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.5	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 257.223 ug/l

RT: 8.27 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 338229

Ion Ratio Lower Upper

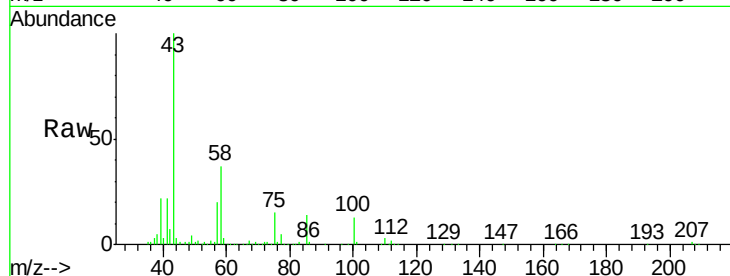
43 100

58 37.0 29.6 44.4

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

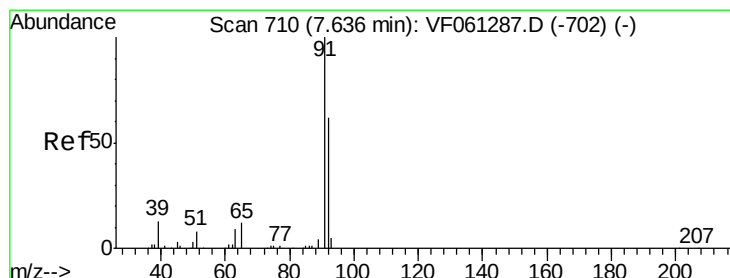
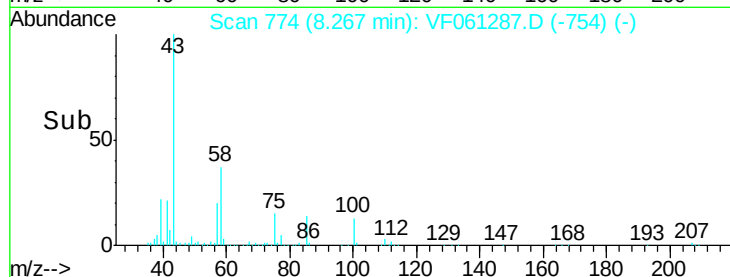
100000

50000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 52.641 ug/l

RT: 7.64 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061287.D

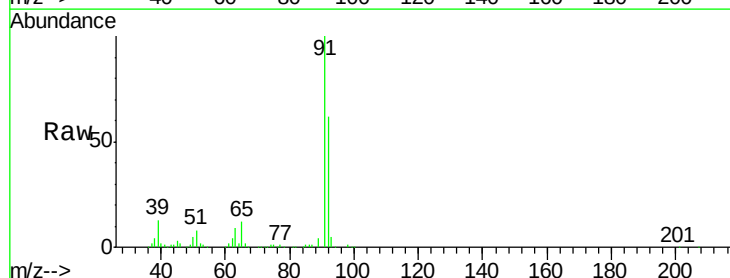
Acq: 8 Jan 2019 15:30

Tgt Ion: 92 Resp: 277219

Ion Ratio Lower Upper

92 100

91 161.5 129.2 193.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

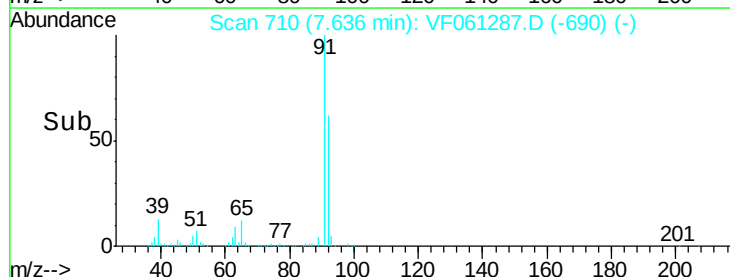
100000

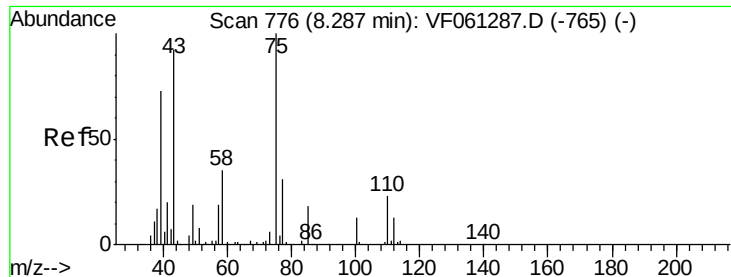
50000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 47.425 ug/l

RT: 8.29 min Scan# 776

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tot Ion: 75 Resp: 133338

Ion Ratio Lower Upper

75 100

77 30.9 24.7 37.1

Instrument :

MSVOA_F

ClientSampleId :

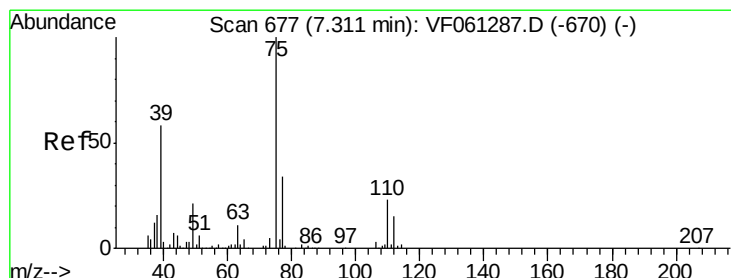
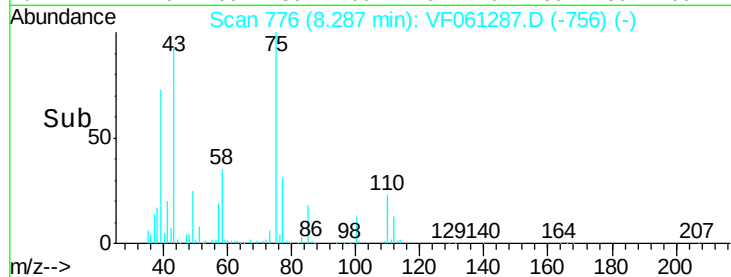
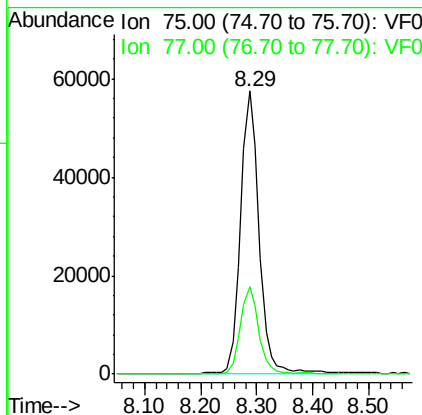
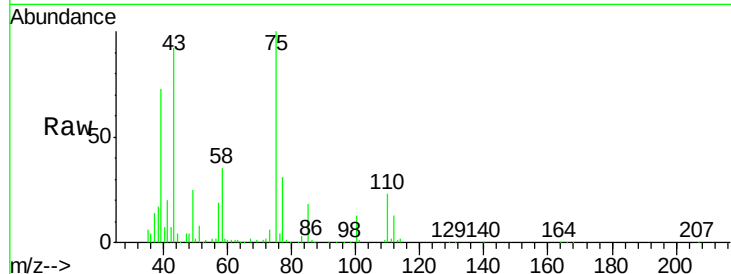
VSTDICCC050

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1/9/2019 11:44:55 AM



#54

cis-1,3-Dichloropropene

Concen: 49.741 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

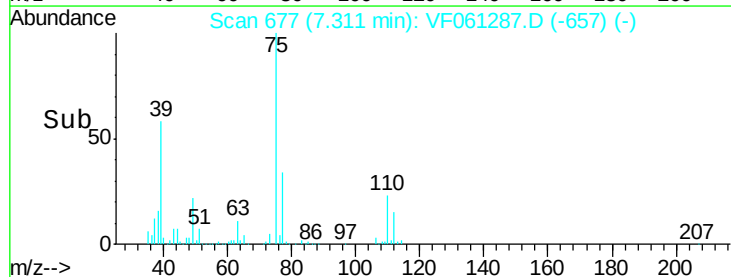
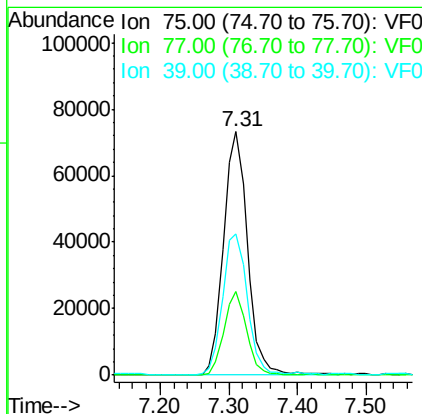
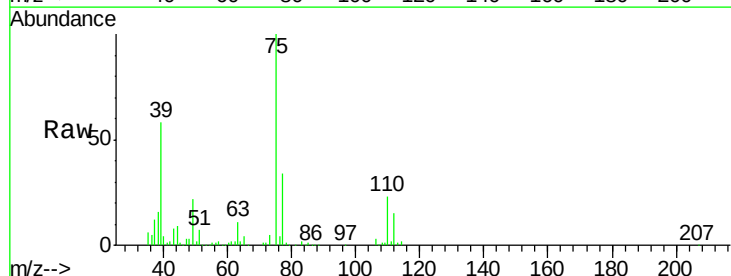
Tgt Ion: 75 Resp: 177746

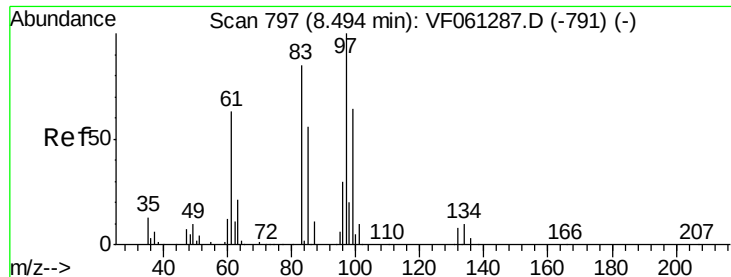
Ion Ratio Lower Upper

75 100

77 34.1 27.3 40.9

39 57.9 46.3 69.5





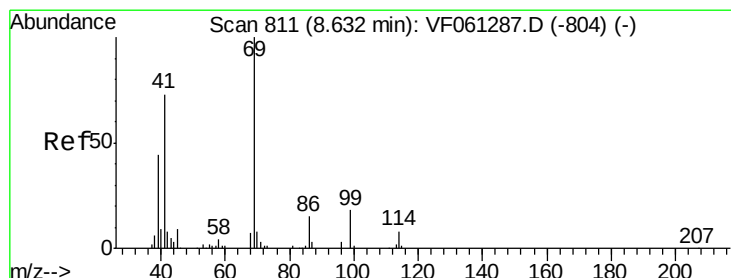
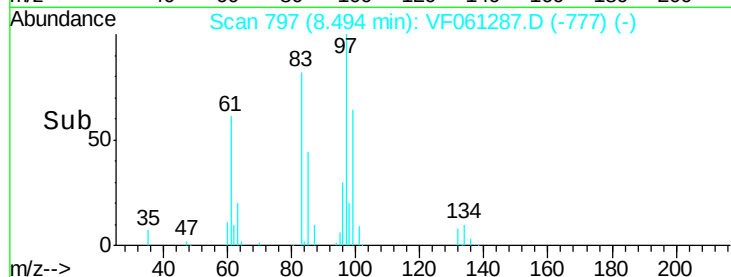
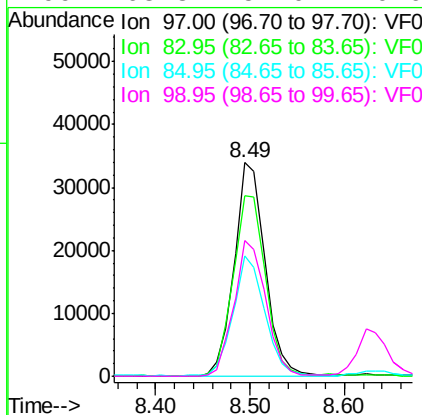
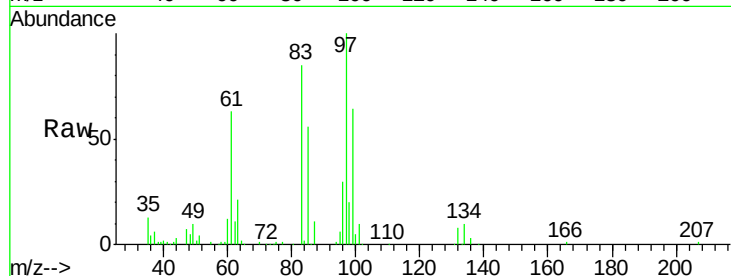
#55
 1,1,2-Trichloroethane
 Concen: 50.964 ug/l
 RT: 8.49 min Scan# 797
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion:	97	Resp:	77182
Ion	Ratio	Lower	Upper
97	100		
83	84.7	67.8	101.6
85	56.4	45.1	67.7
99	63.8	51.0	76.6

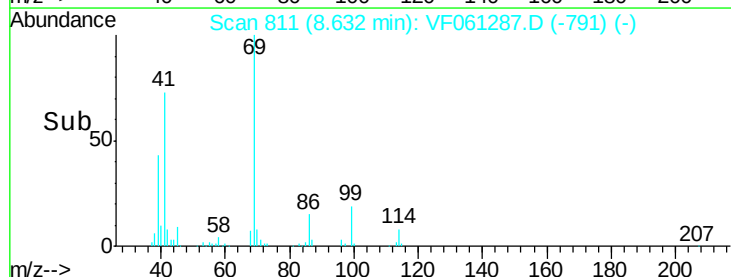
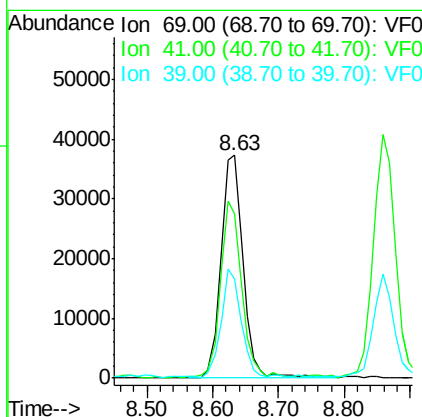
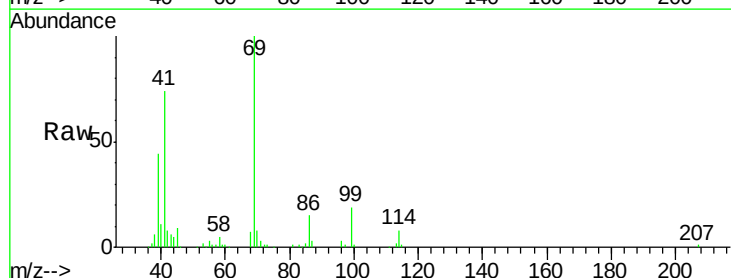
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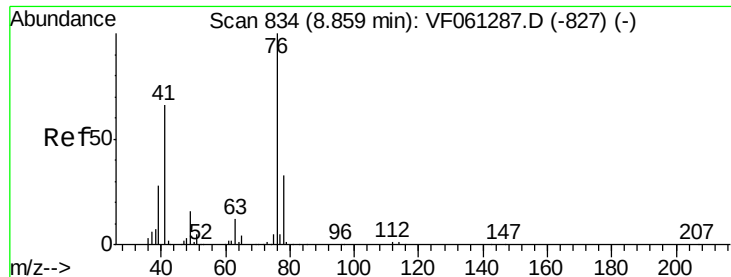
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 1/9/2019 11:44:55 AM



#56
 Ethyl methacrylate
 Concen: 52.563 ug/l
 RT: 8.63 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Tgt Ion:	69	Resp:	87975
Ion	Ratio	Lower	Upper
69	100		
41	73.7	59.0	88.4
39	44.1	35.3	52.9





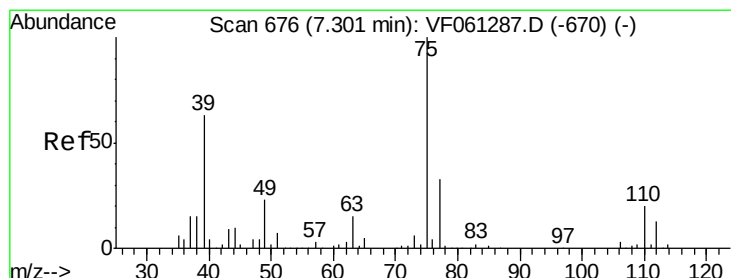
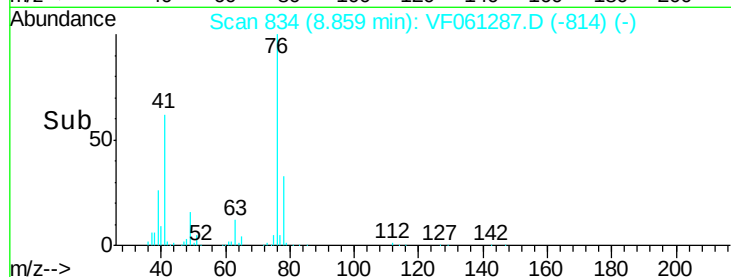
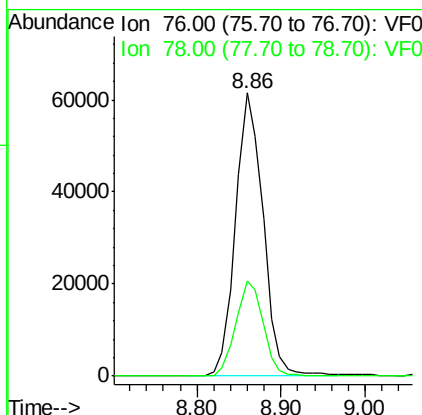
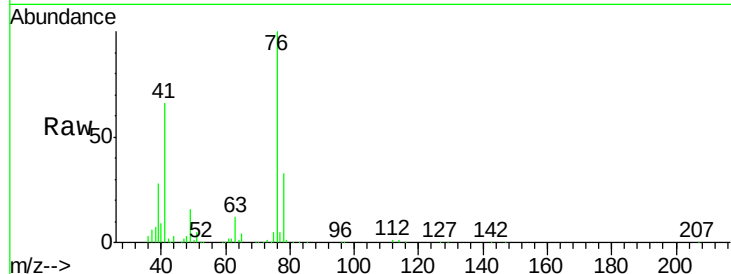
#57
 1,3-Dichloropropane
 Concen: 49.448 ug/l
 RT: 8.86 min Scan# 834
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion: 76 Resp: 140769
 Ion Ratio Lower Upper
 76 100
 78 33.5 26.8 40.2

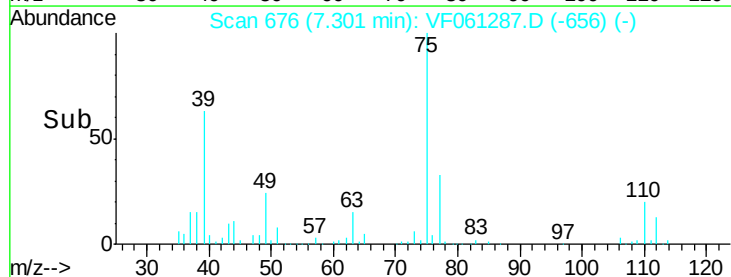
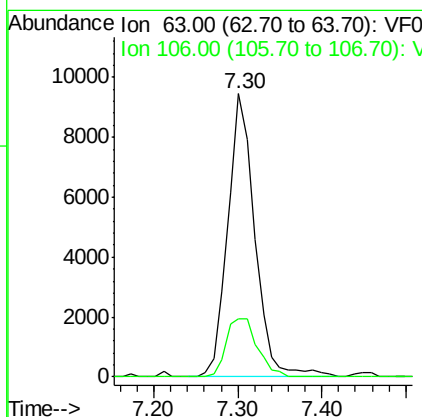
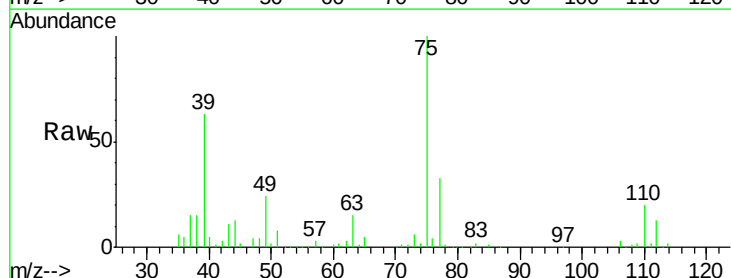
Manual Integrations
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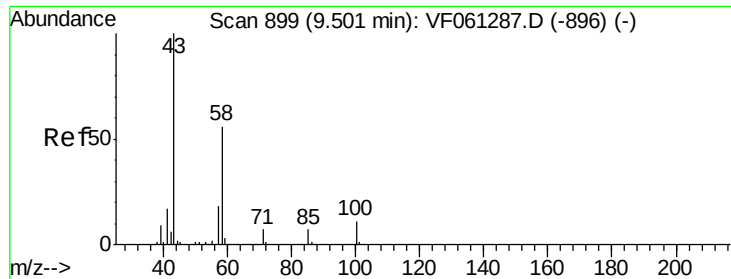
MMDadoda
 1/9/2019 11:44:55 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 104.589 ug/l
 RT: 7.30 min Scan# 676
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Tgt Ion: 63 Resp: 21258
 Ion Ratio Lower Upper
 63 100
 106 20.6 16.5 24.7





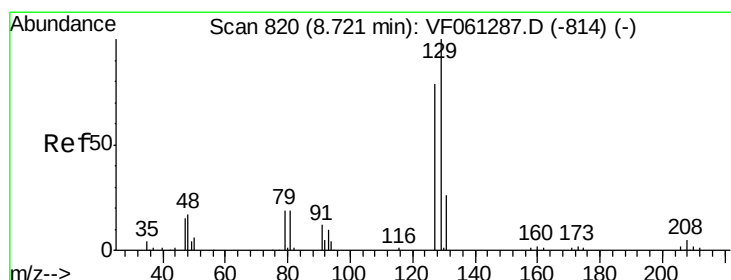
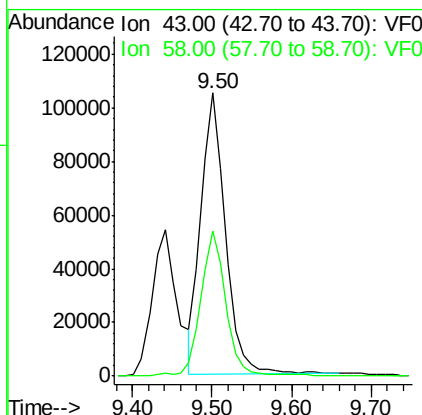
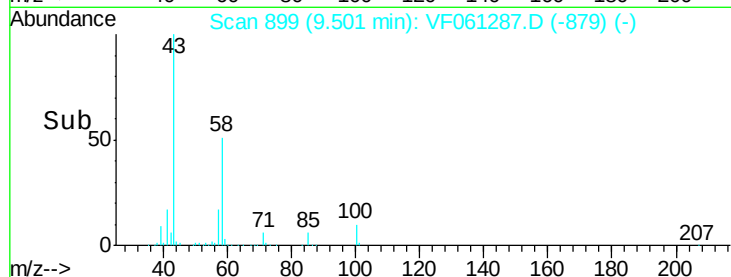
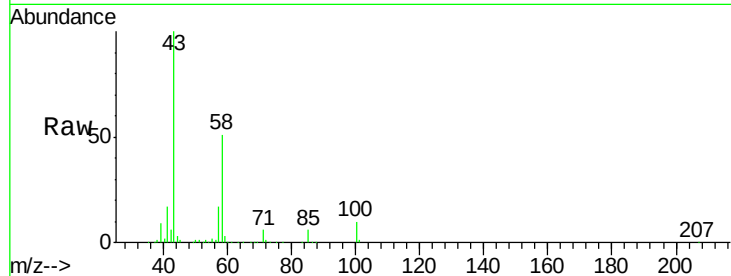
#59
2-Hexanone
Concen: 236.346 ug/l
RT: 9.50 min Scan# 899
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion: 43 Resp: 224989
Ion Ratio Lower Upper
43 100
58 51.2 25.6 76.8

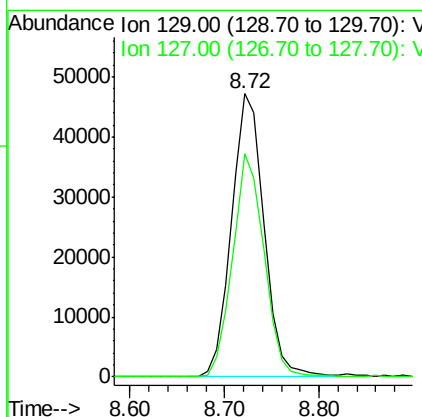
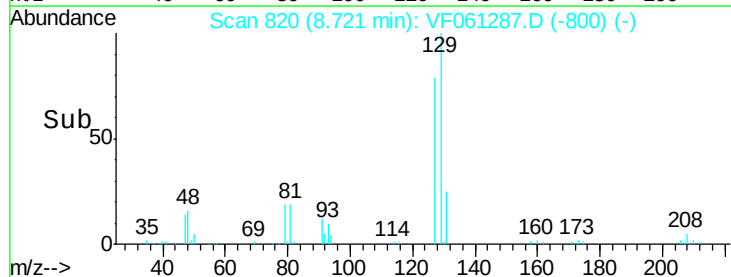
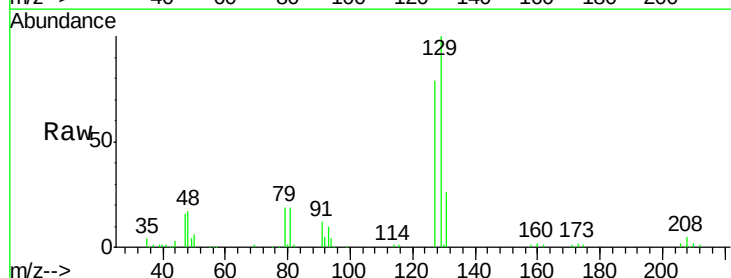
Manual Integrations
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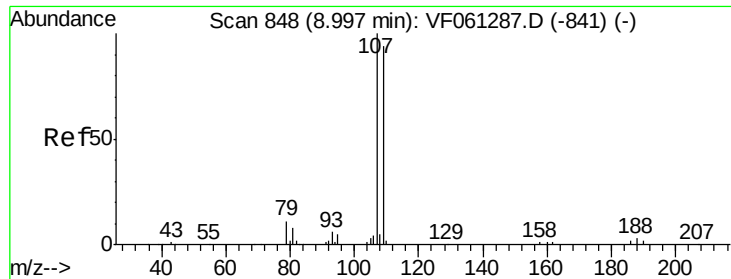
MMDadoda
1/9/2019 11:44:55 AM



#60
Dibromochloromethane
Concen: 52.249 ug/l
RT: 8.72 min Scan# 820
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion: 129 Resp: 112395
Ion Ratio Lower Upper
129 100
127 78.7 39.4 118.1





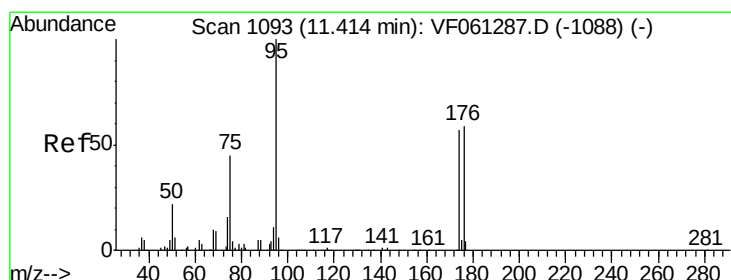
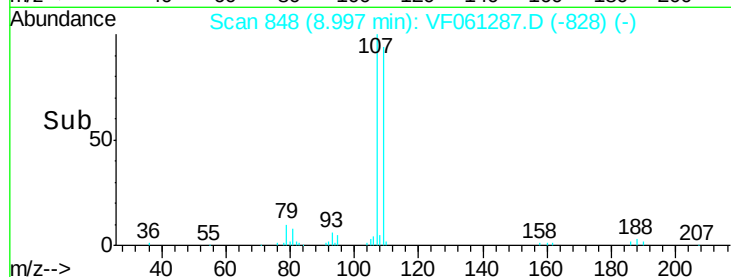
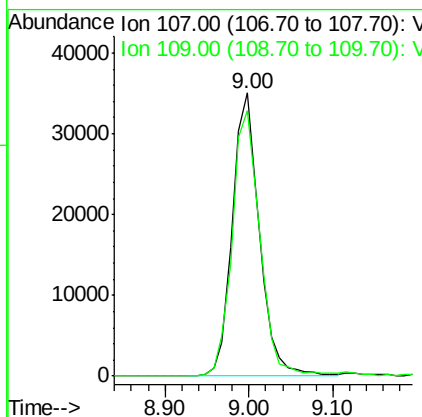
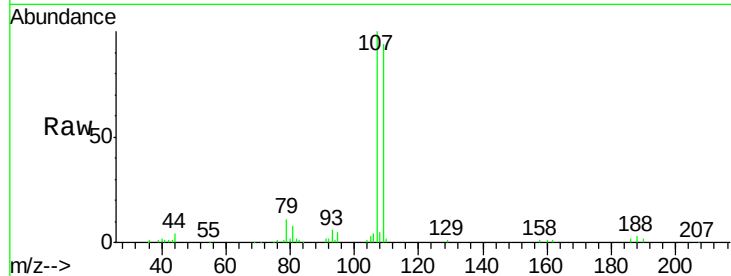
#61
 1,2-Dibromoethane
 Concen: 48.196 ug/l
 RT: 9.00 min Scan# 848
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion:107 Resp: 78774
 Ion Ratio Lower Upper
 107 100
 109 93.9 75.1 112.7

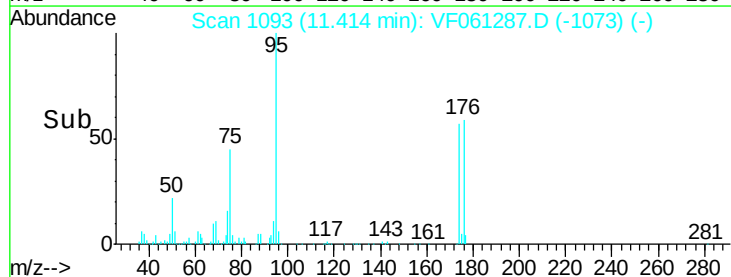
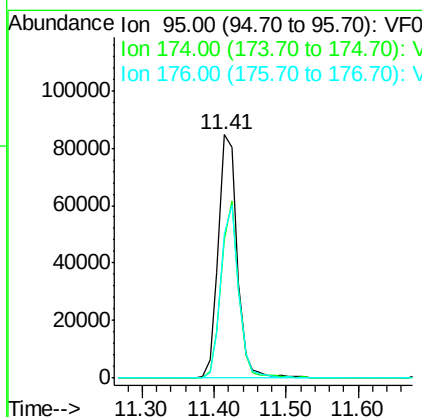
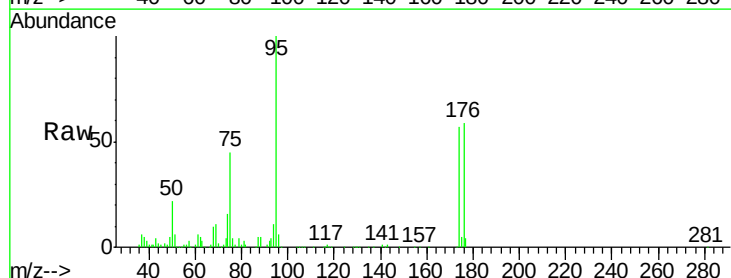
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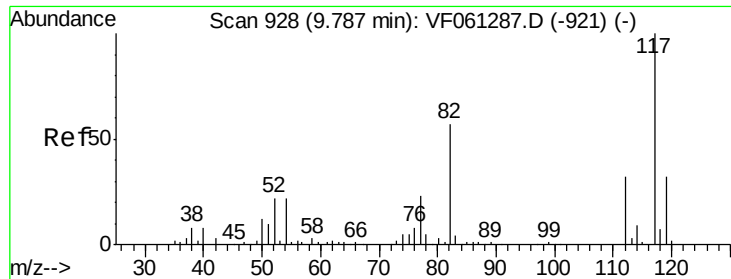
MMDadoda
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#62
 4-Bromofluorobenzene
 Concen: 50.319 ug/l
 RT: 11.41 min Scan# 1093
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Tgt Ion: 95 Resp: 153592
 Ion Ratio Lower Upper
 95 100
 174 57.1 0.0 114.2
 176 58.9 0.0 117.8





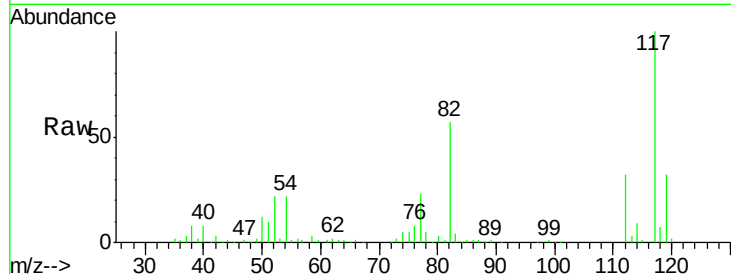
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

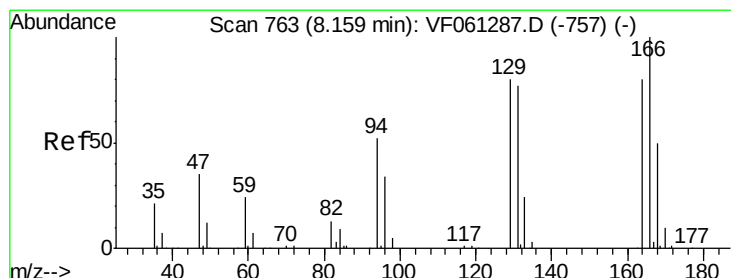
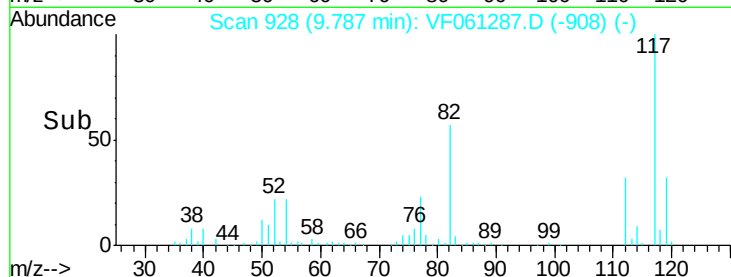
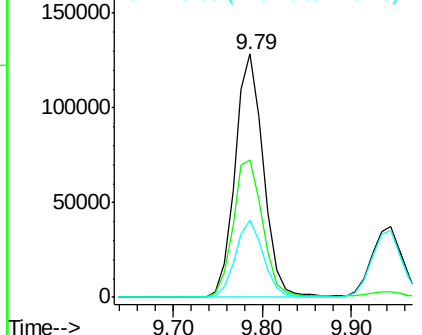
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.3	67.9
119	31.7	25.4	38.0

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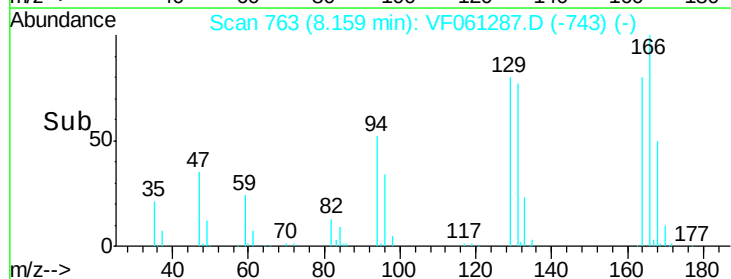
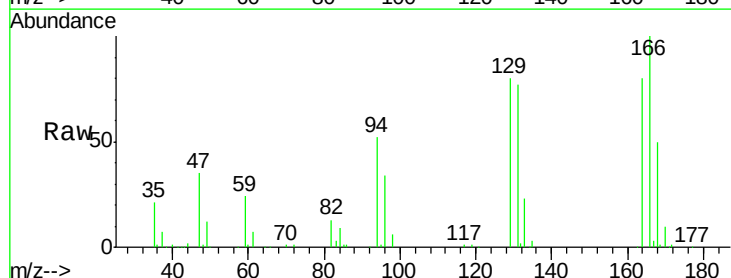
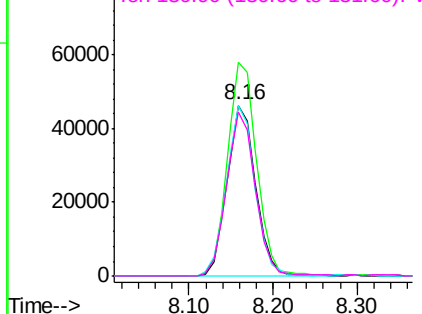
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

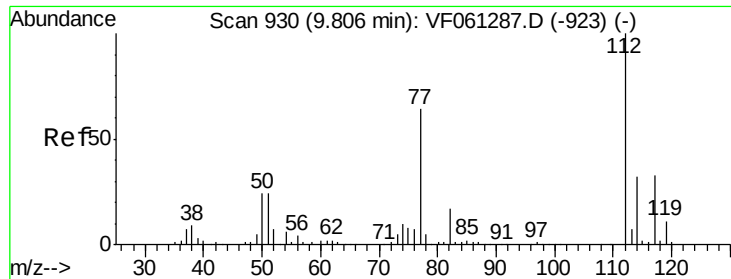


#64
Tetrachloroethene
Concen: 50.145 ug/l
RT: 8.16 min Scan# 763
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.1	100.1	150.1
129	100.1	80.1	120.1
131	95.9	76.7	115.1

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





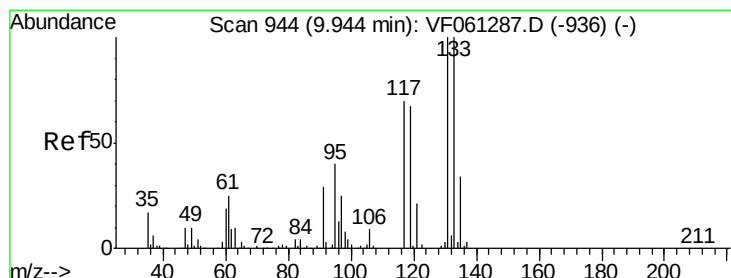
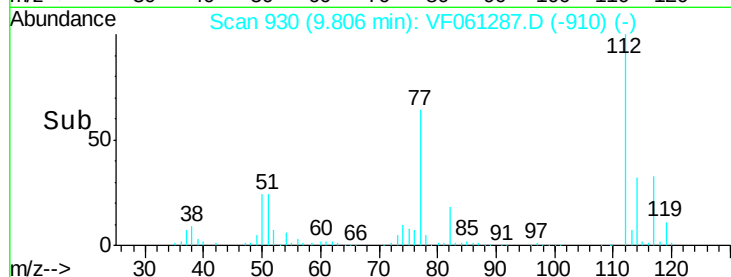
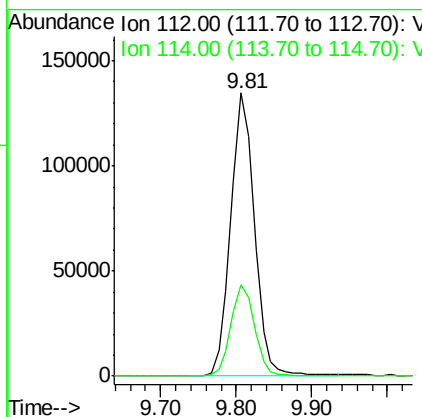
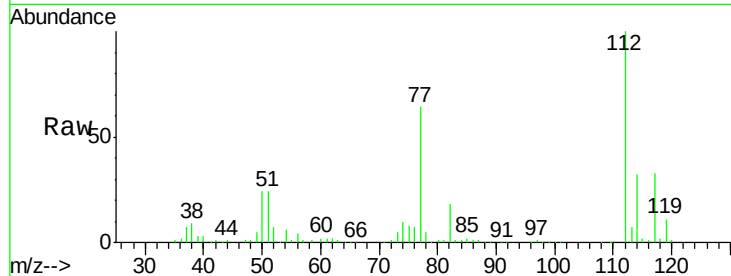
#65
Chlorobenzene
Concen: 50.563 ug/l
RT: 9.81 min Scan# 930
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.8	38.8

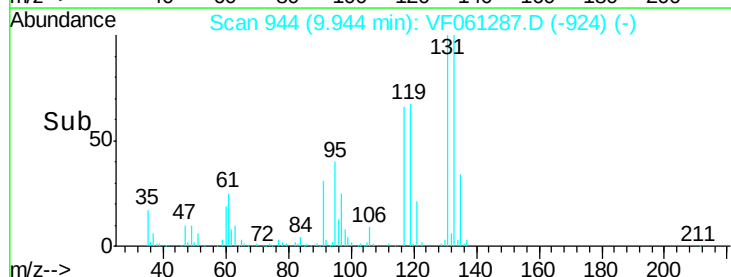
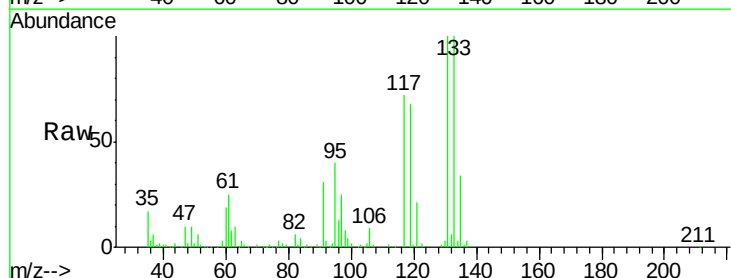
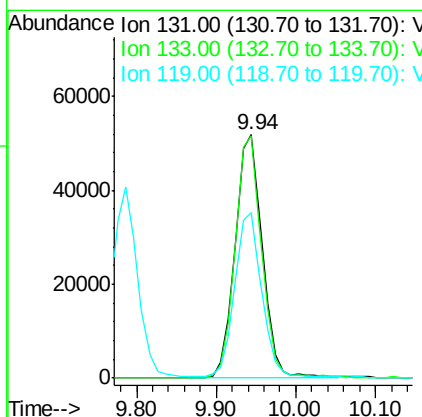
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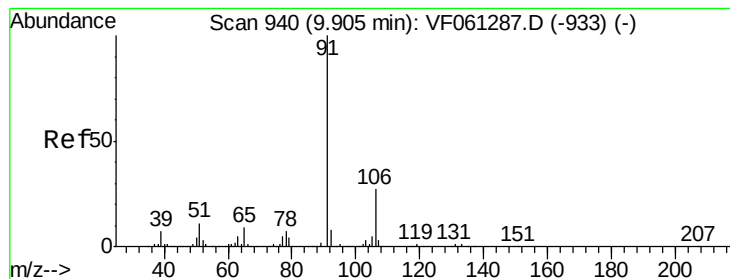
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#66
1,1,1,2-Tetrachloroethane
Concen: 51.915 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion	Ratio	Lower	Upper
131	100		
133	99.7	49.9	149.6
119	67.7	33.9	101.6





#67

Ethyl Benzene

Concen: 54.500 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 581133

Ion Ratio Lower Upper

91 100

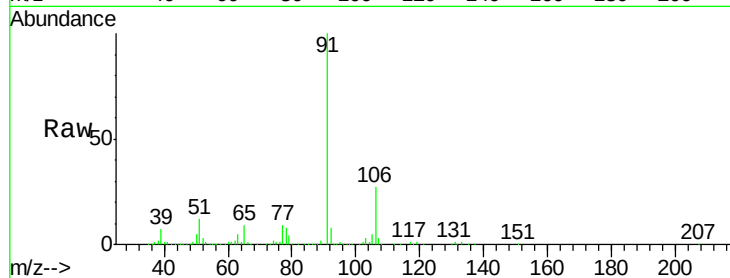
106 26.8 21.4 32.2

Manual Integrations

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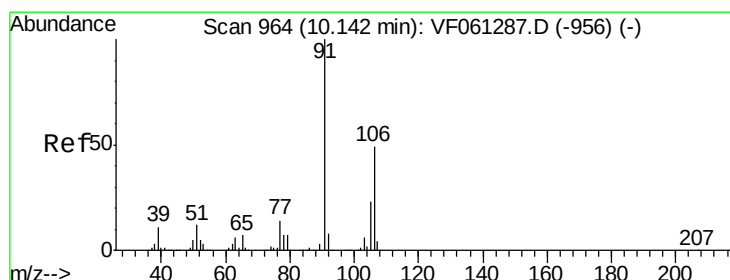
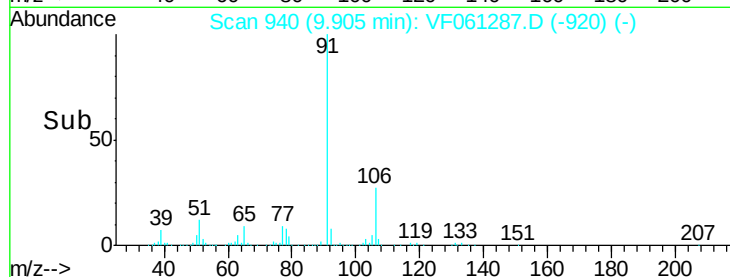
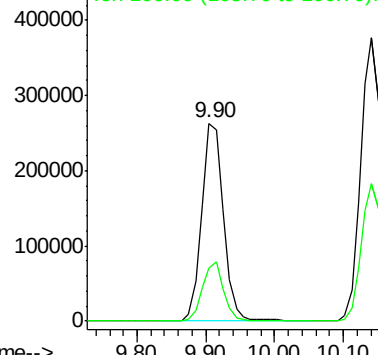
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 101.132 ug/l

RT: 10.14 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF061287.D

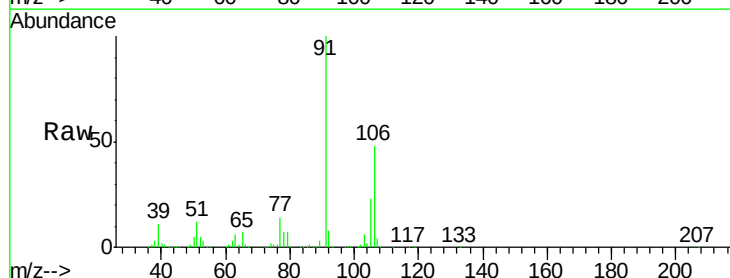
Acq: 8 Jan 2019 15:30

Tgt Ion: 106 Resp: 393545

Ion Ratio Lower Upper

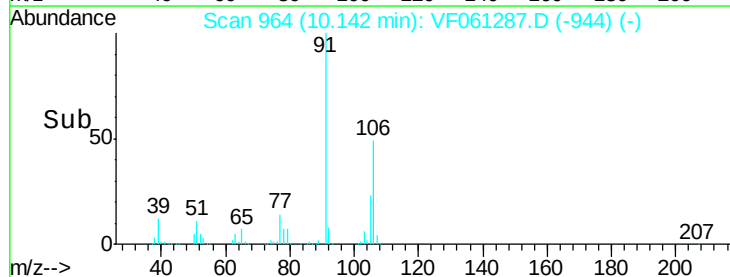
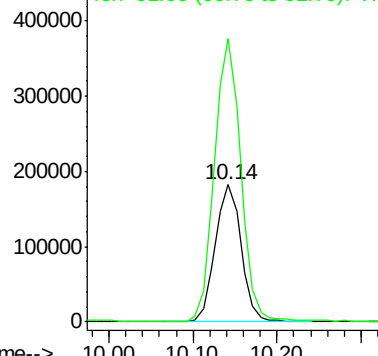
106 100

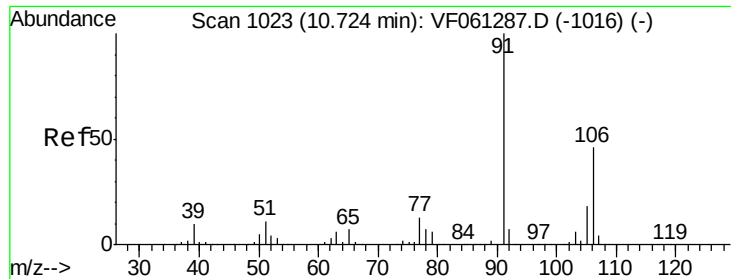
91 206.3 165.0 247.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





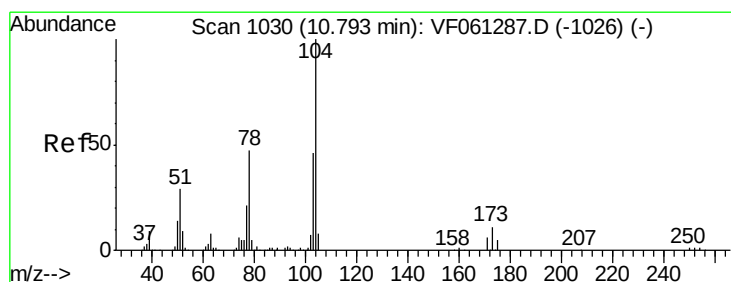
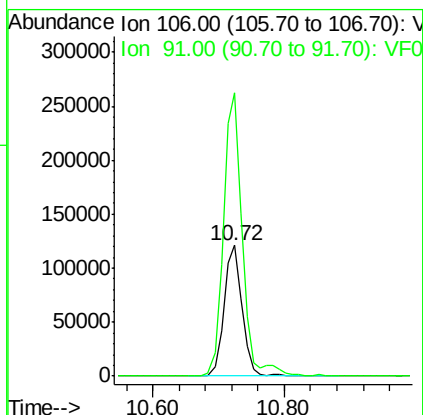
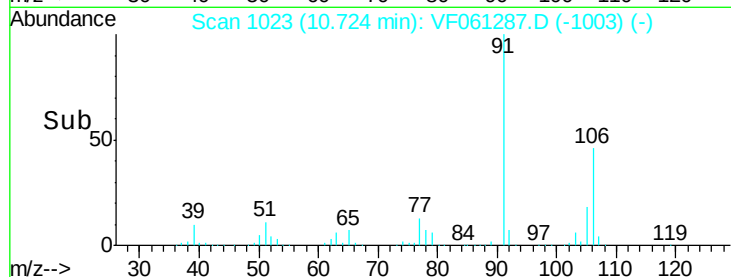
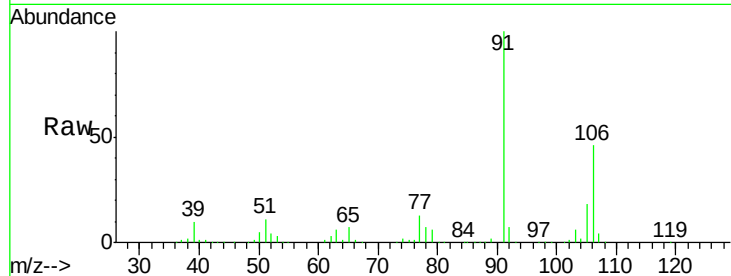
#69
o-Xylene
Concen: 55.235 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion:106 Resp: 232516
Ion Ratio Lower Upper
106 100
91 216.3 108.1 324.4

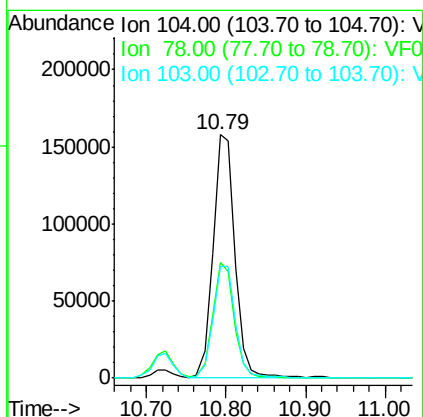
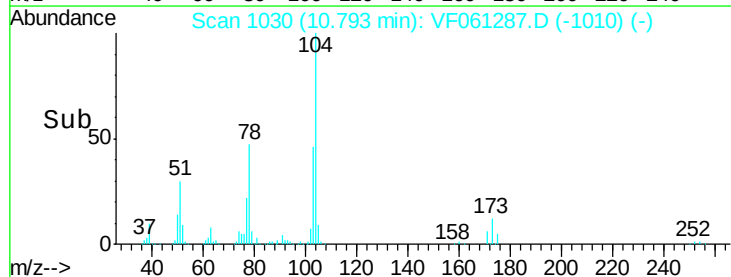
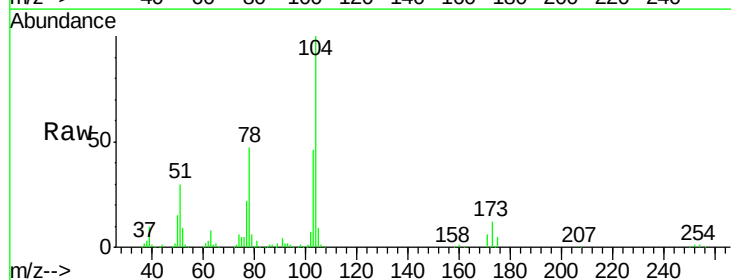
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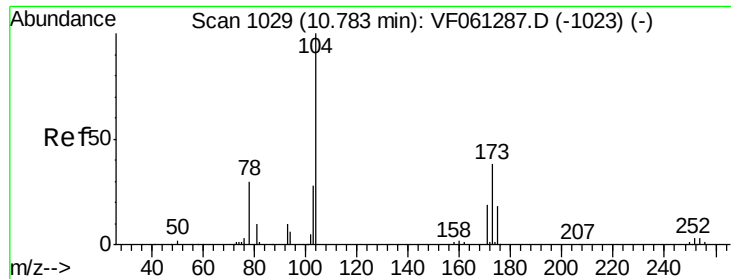
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#70
Styrene
Concen: 52.936 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion:104 Resp: 306765
Ion Ratio Lower Upper
104 100
78 47.5 38.0 57.0
103 45.9 36.7 55.1





#71

Bromoform

Concen: 48.378 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:173 Resp: 53653

Ion Ratio Lower Upper

173 100

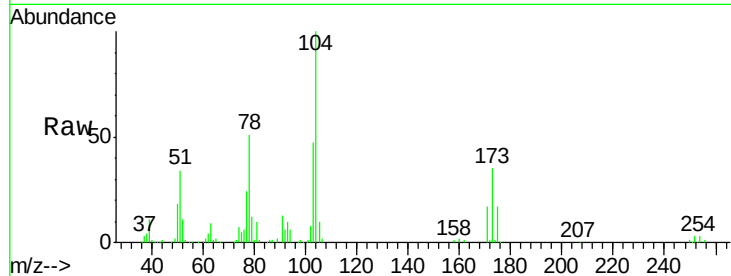
175 48.1 24.1 72.2

254 0.0 0.0 0.0

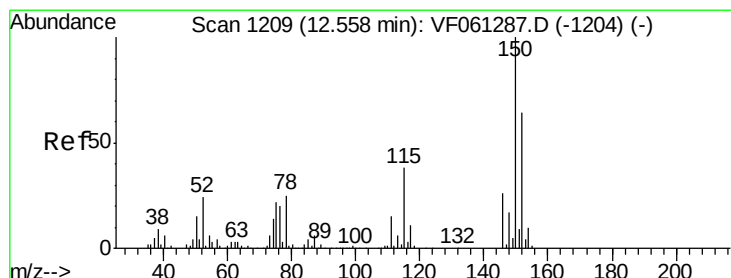
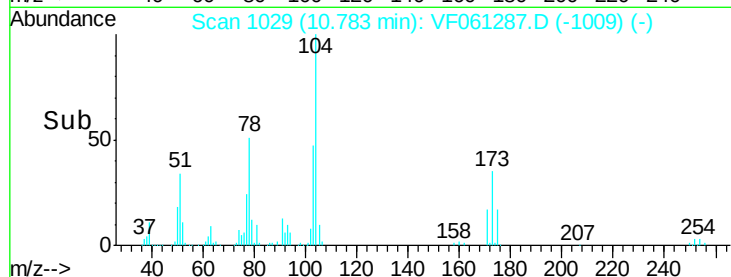
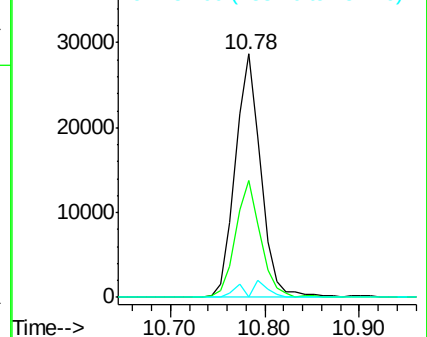
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Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

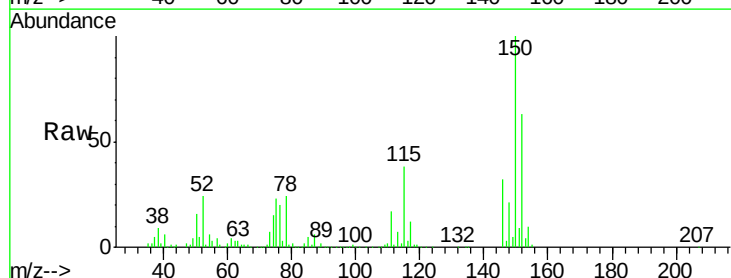
Tgt Ion:152 Resp: 142655

Ion Ratio Lower Upper

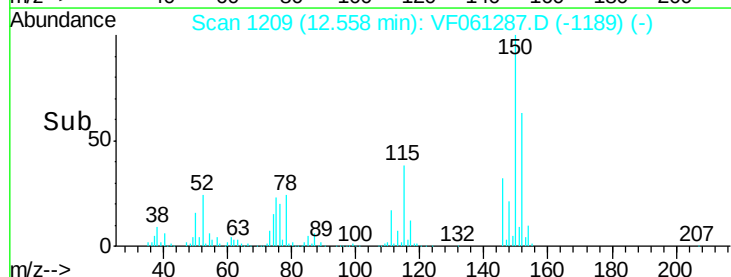
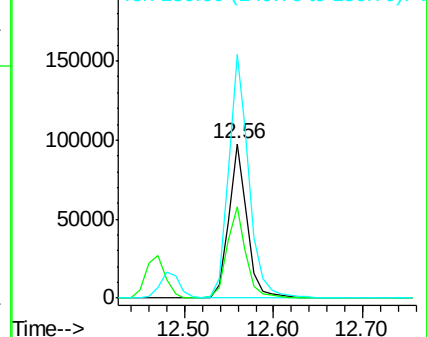
152 100

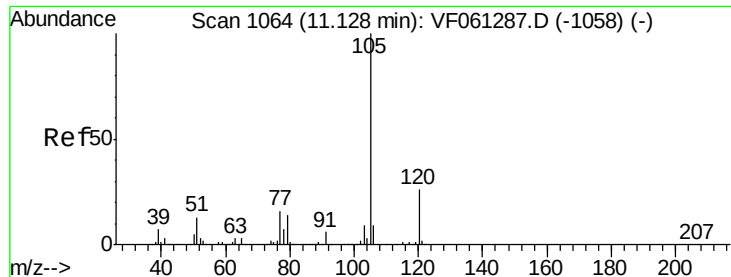
115 59.3 29.6 88.9

150 157.7 0.0 315.4



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





#73

Isopropylbenzene

Concen: 55.089 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:105 Resp: 667545

Ion Ratio Lower Upper

105 100

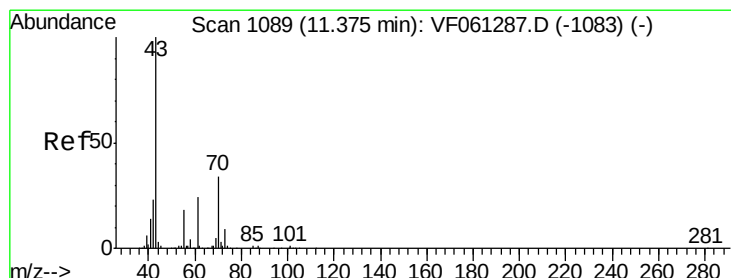
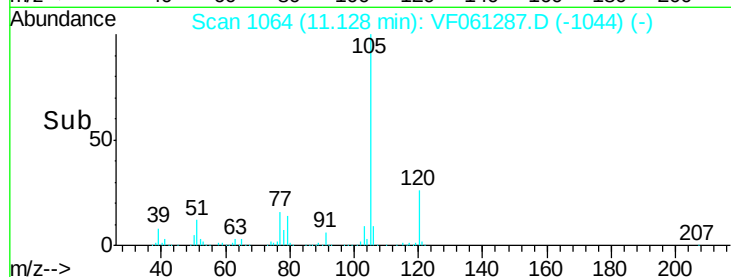
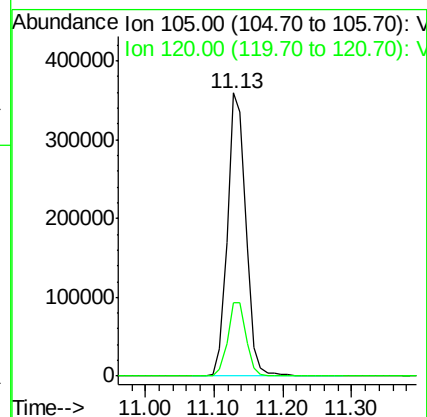
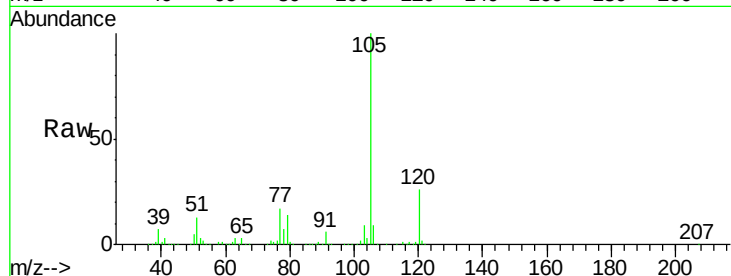
120 25.8 12.9 38.7

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#74

N-ethyl acetate

Concen: 49.434 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tgt Ion: 43 Resp: 151237

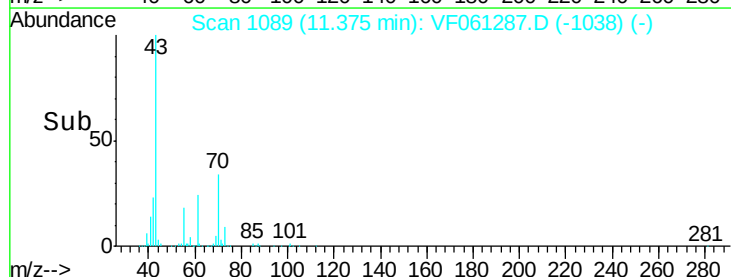
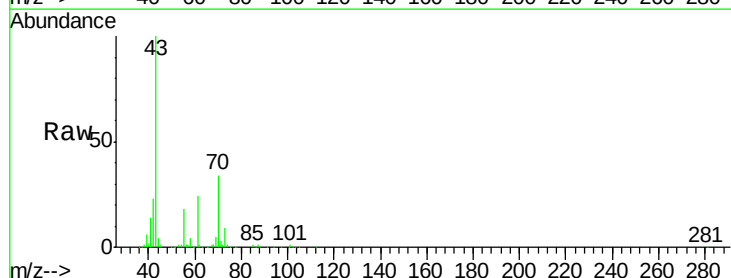
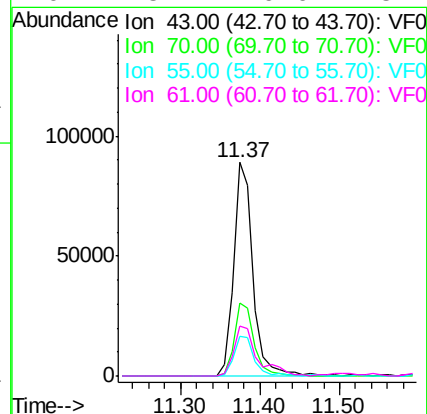
Ion Ratio Lower Upper

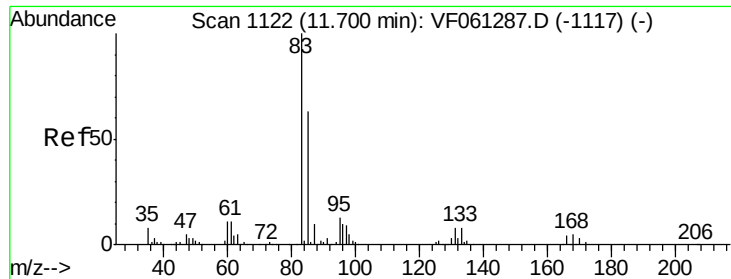
43 100

70 34.2 27.4 41.0

55 18.4 14.7 22.1

61 23.7 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 50.043 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

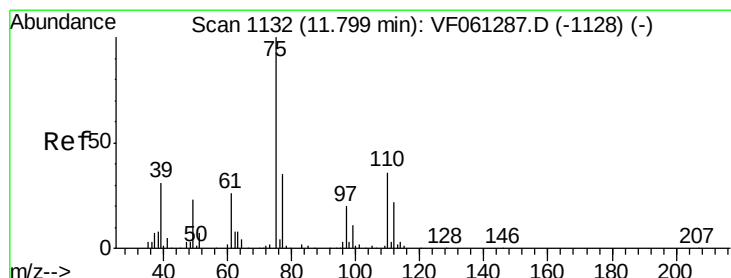
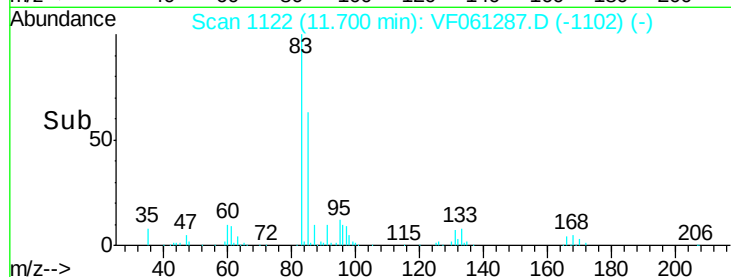
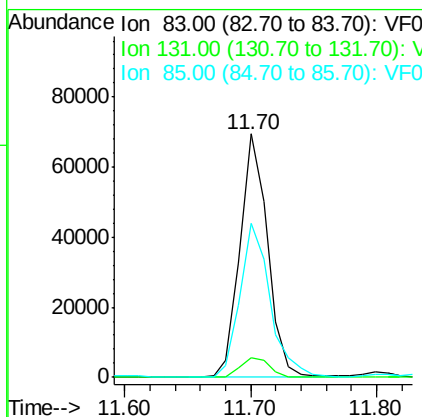
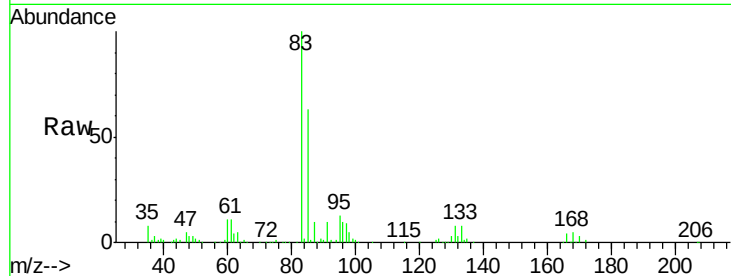
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	105920
Ion Ratio	Lower	Upper	
83	100		
131	7.8	3.9	11.7
85	63.1	31.6	94.7

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#76

1,2,3-Trichloropropane

Concen: 46.096 ug/l

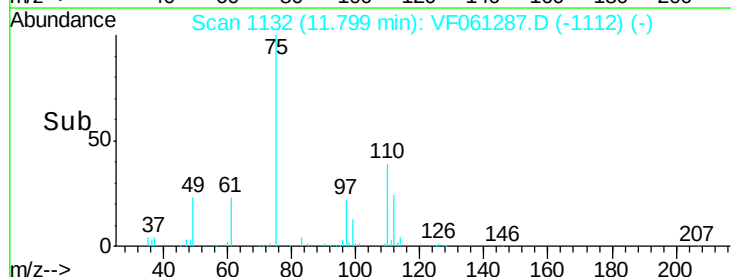
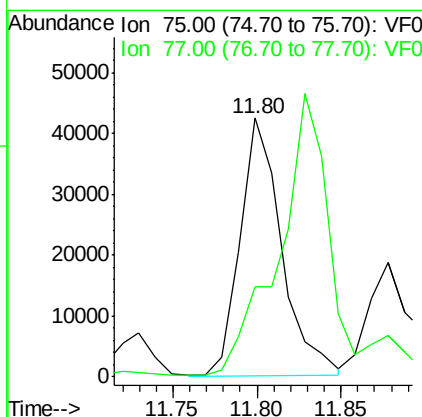
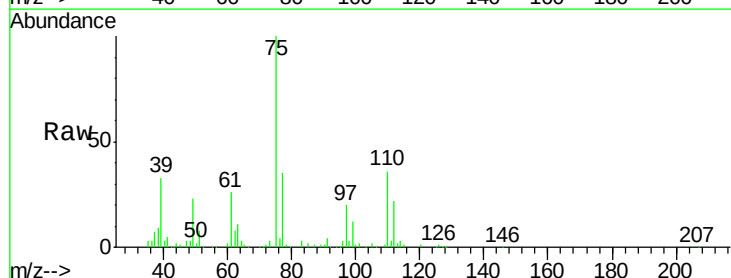
RT: 11.80 min Scan# 1132

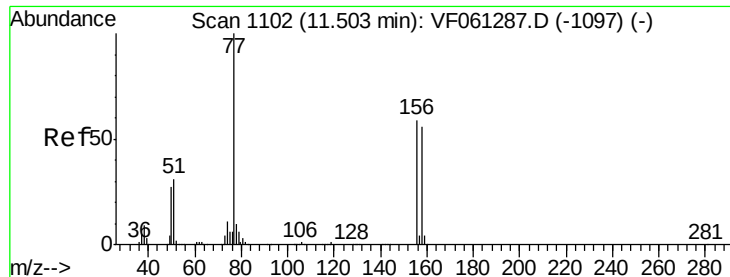
Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tgt Ion:	75	Resp:	72429
Ion Ratio	Lower	Upper	
75	100		
77	35.0	17.5	52.5





#77

Bromobenzene

Concen: 50.583 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

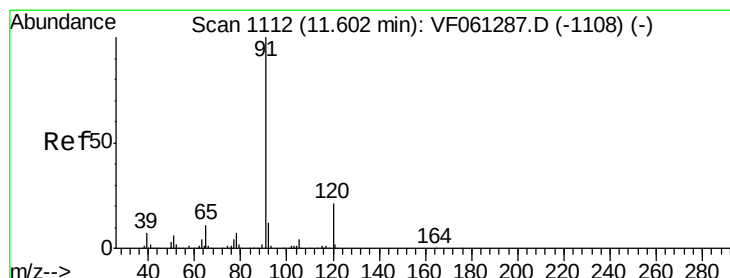
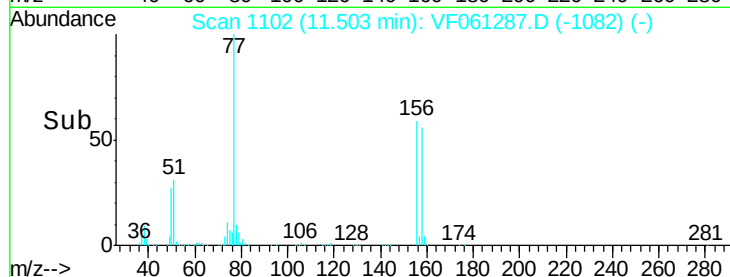
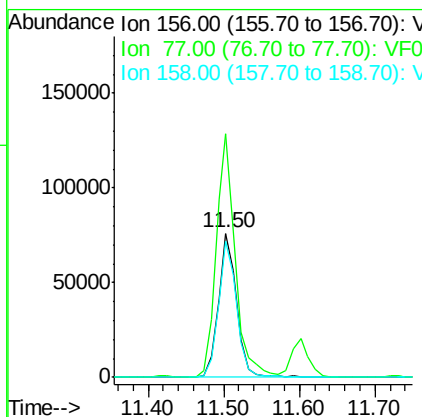
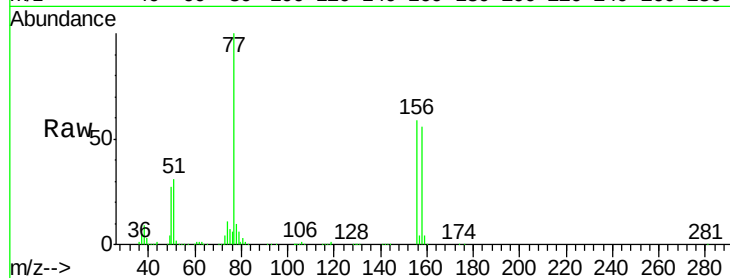
ClientSampleId :

VSTDICCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		128676		
77	168.6	84.3	252.9		
158	94.2	47.1	141.3		

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#78

n-propylbenzene

Concen: 53.092 ug/l

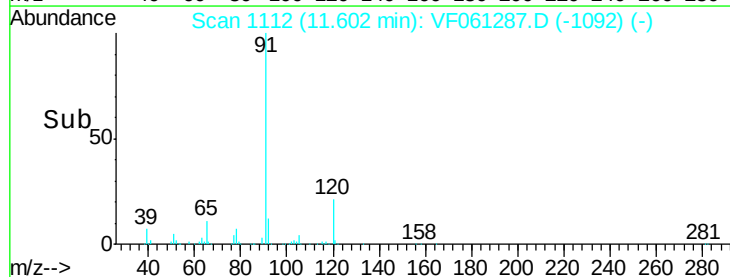
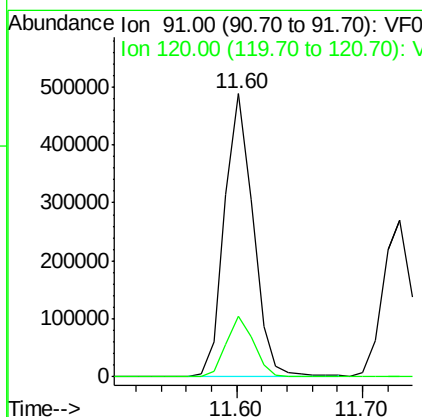
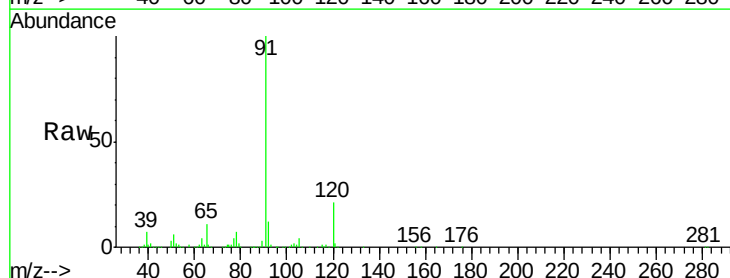
RT: 11.60 min Scan# 1112

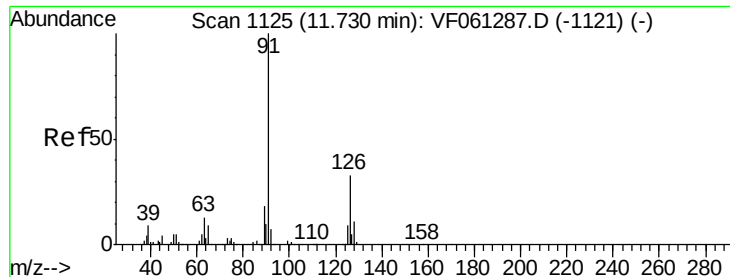
Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		766846		
120	21.4	10.7	32.1		





#79

2-Chlorotoluene

Concen: 51.541 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 429932

Ion Ratio Lower Upper

91 100

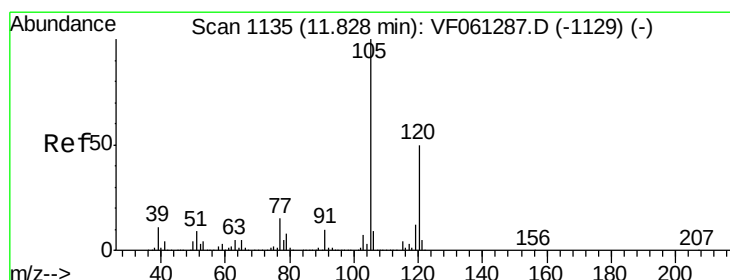
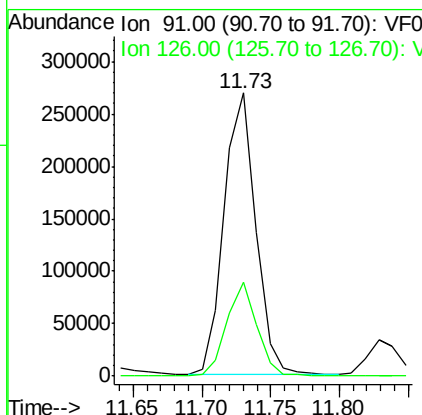
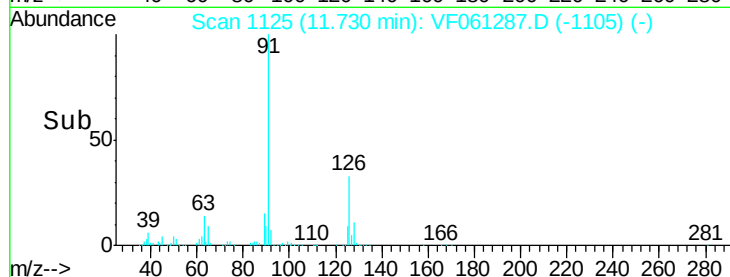
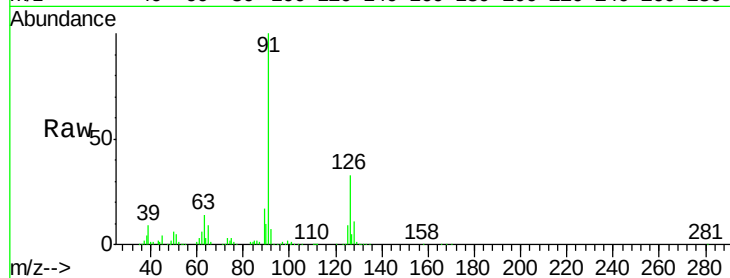
126 33.2 16.6 49.8

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#80

1,3,5-Trimethylbenzene

Concen: 51.732 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VF061287.D

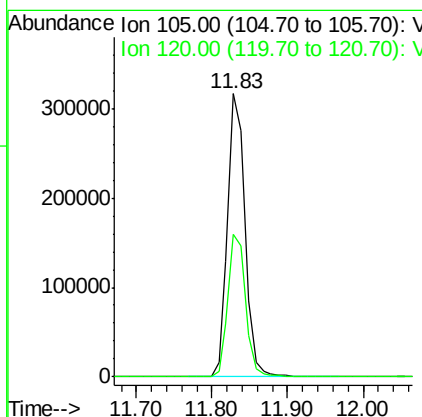
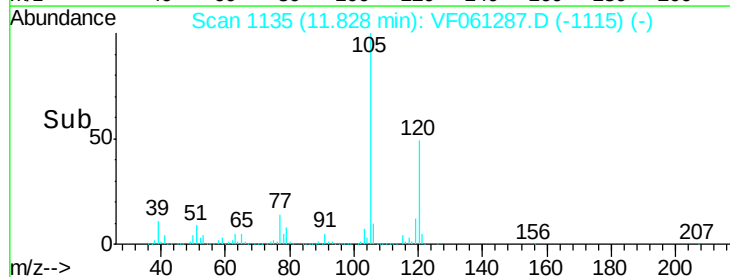
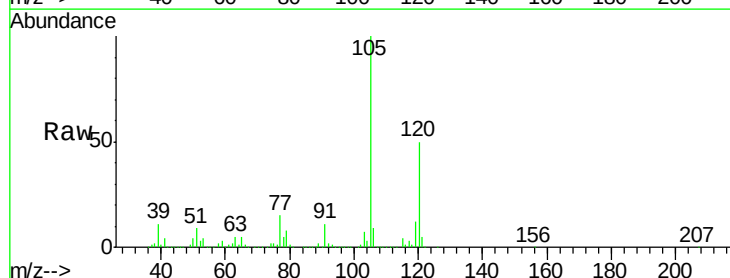
Acq: 8 Jan 2019 15:30

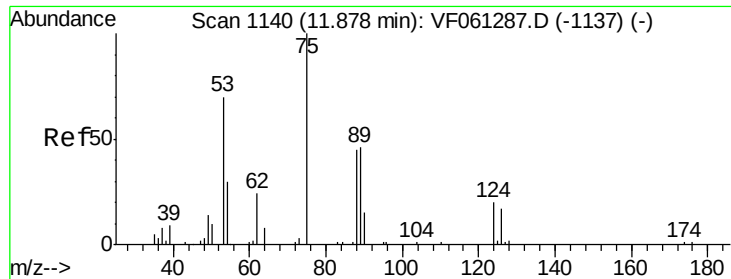
Tgt Ion: 105 Resp: 506076

Ion Ratio Lower Upper

105 100

120 50.4 25.2 75.6





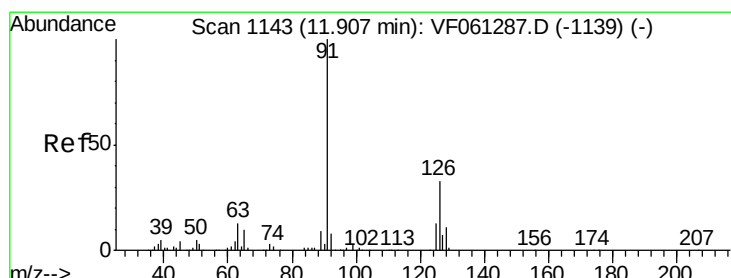
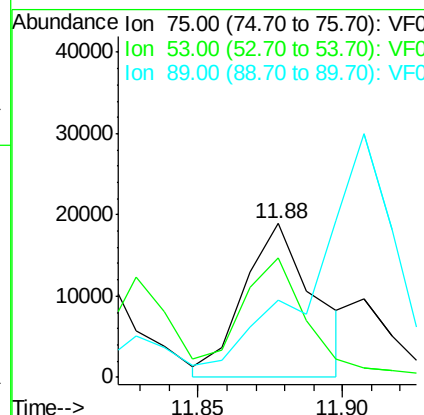
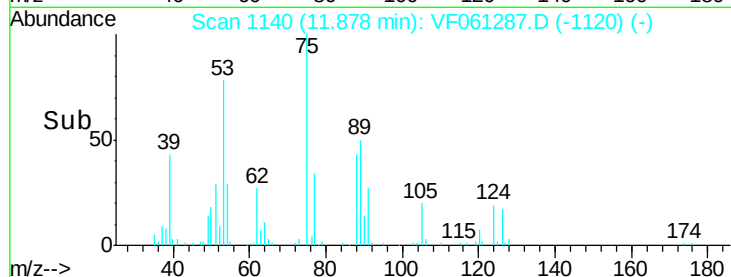
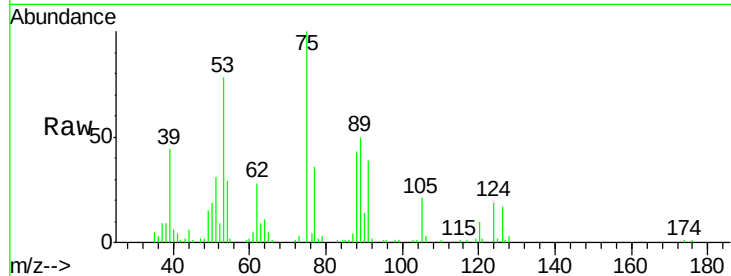
#81
trans-1,4-Dichloro-2-butene
Concen: 44.749 ug/l m
RT: 11.88 min Scan# 1140
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion: 75 Resp: 32226
Ion Ratio Lower Upper
75 100
53 77.7 62.2 93.2
89 50.3 40.2 60.4

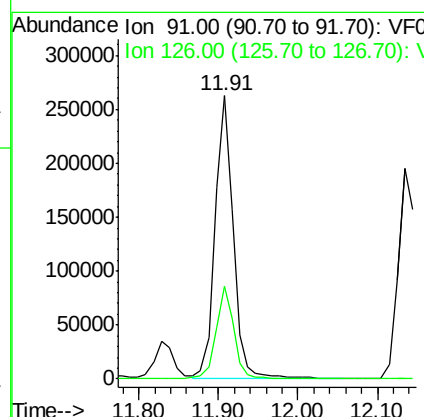
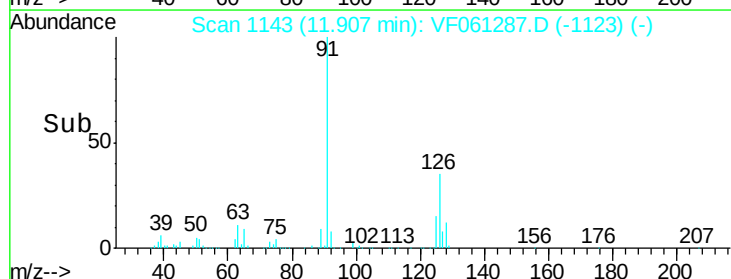
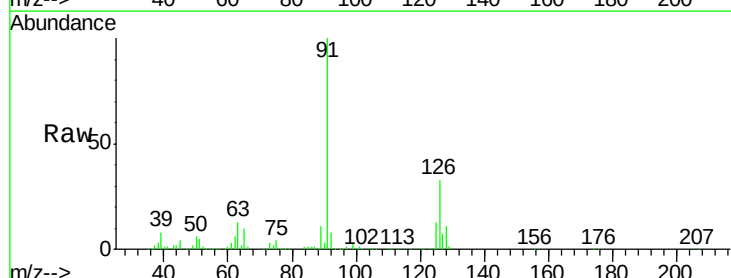
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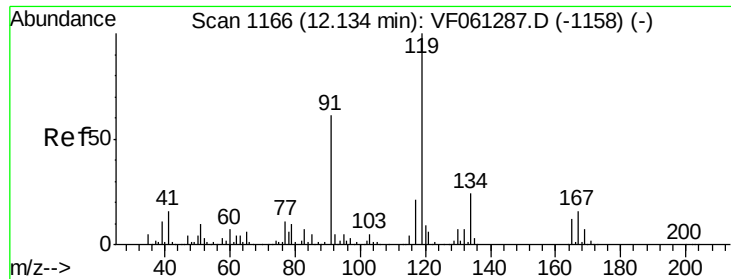
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#82
4-Chlorotoluene
Concen: 49.476 ug/l
RT: 11.91 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VF061287.D
Acq: 8 Jan 2019 15:30

Tgt Ion: 91 Resp: 418374
Ion Ratio Lower Upper
91 100
126 32.9 16.4 49.4





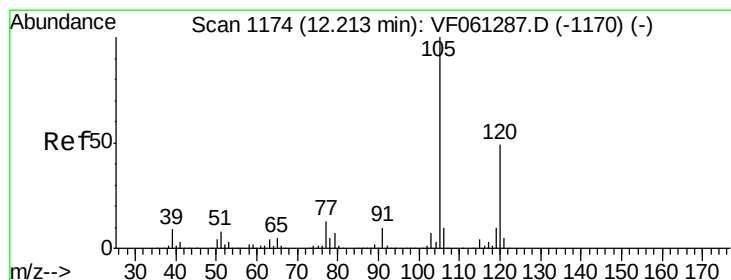
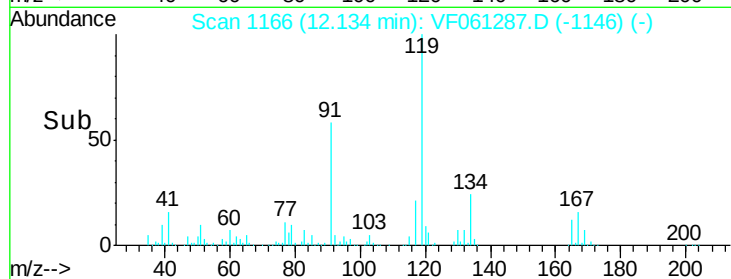
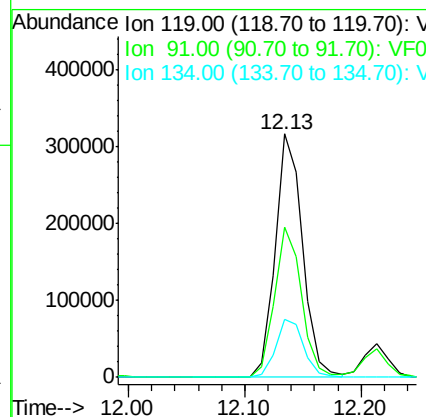
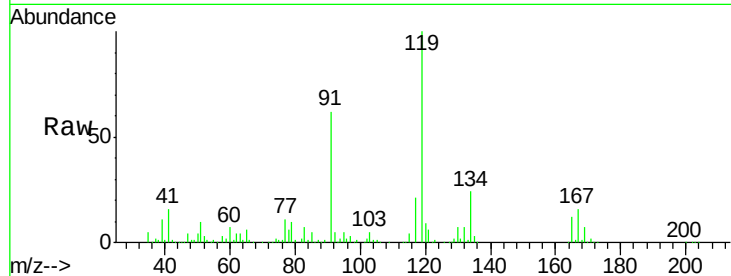
#83
 tert-Butylbenzene
 Concen: 50.726 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	511646		
91	61.6	30.8	92.4	
134	23.9	11.9	35.9	

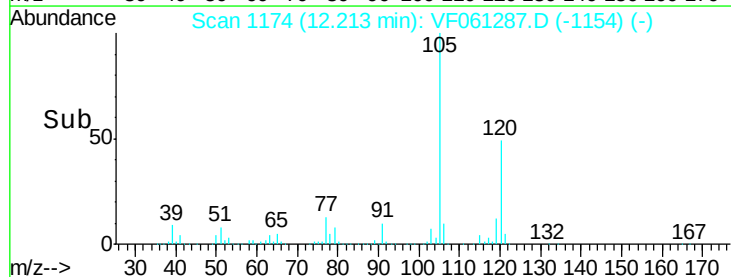
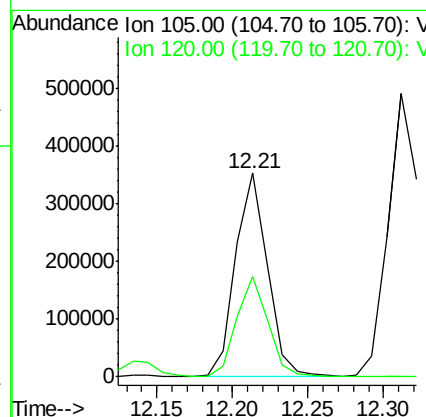
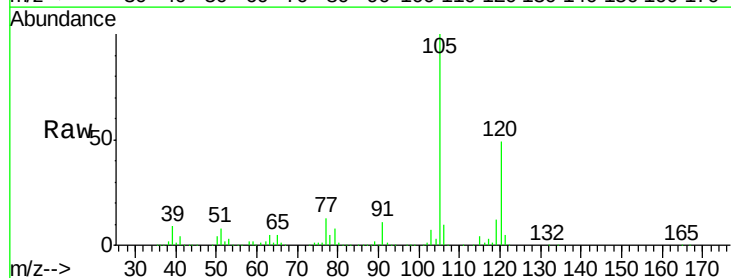
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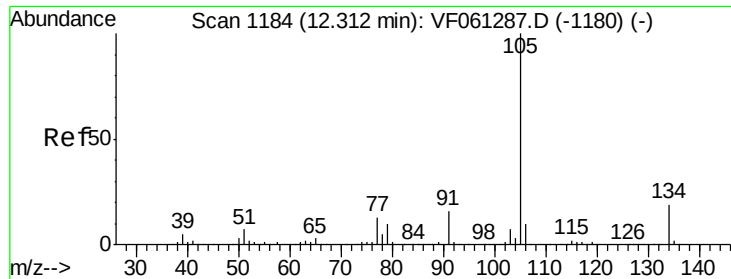
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#84
 1,2,4-Trimethylbenzene
 Concen: 53.319 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	519268		
120	49.4	24.7	74.1	





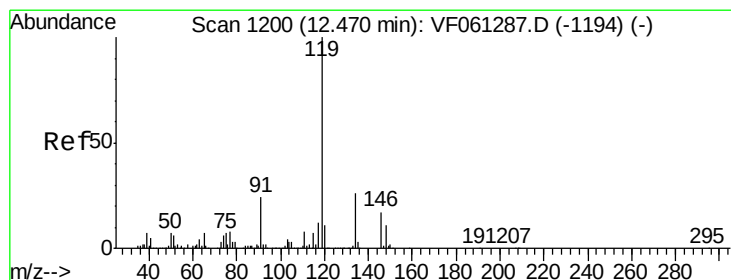
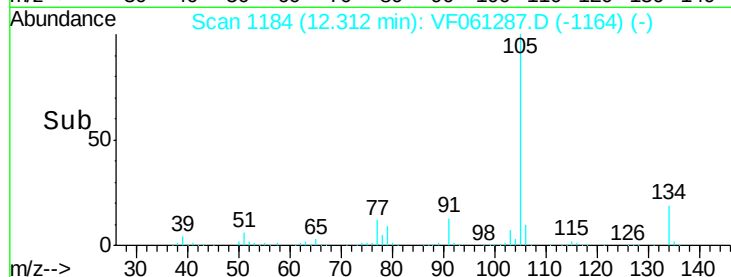
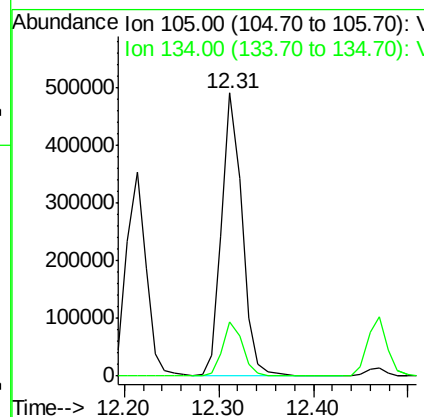
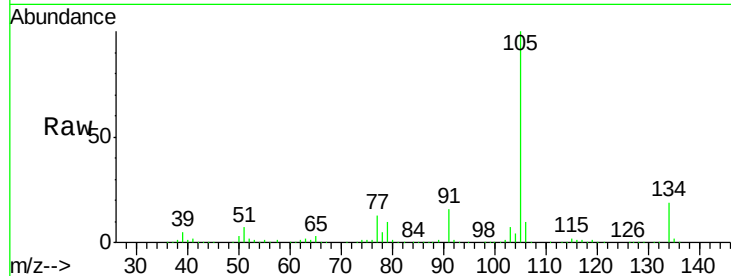
#85
 sec-Butylbenzene
 Concen: 53.919 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion:105 Resp: 737705
 Ion Ratio Lower Upper
 105 100
 134 19.3 9.7 28.9

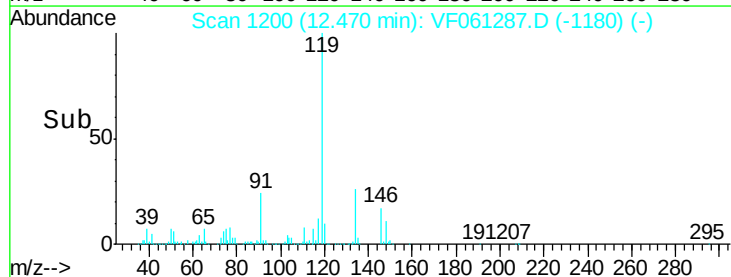
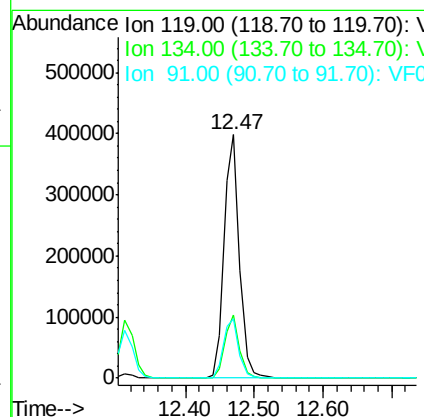
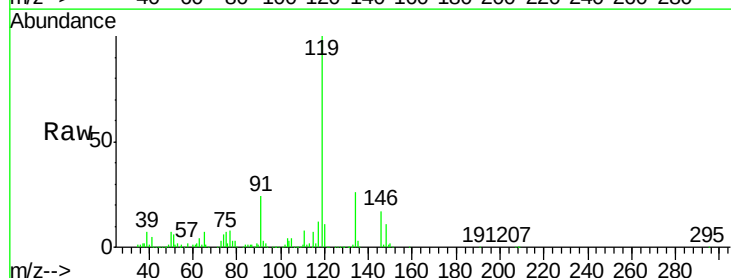
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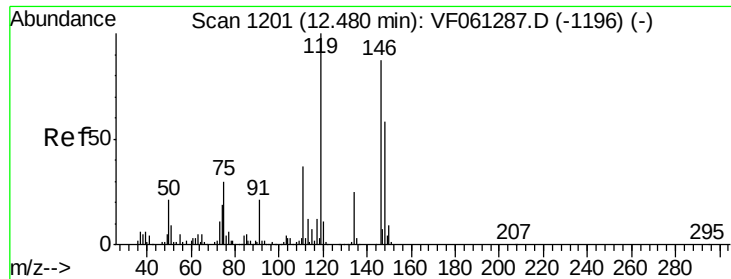
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#86
 p-Isopropyltoluene
 Concen: 53.864 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Tgt Ion:119 Resp: 607220
 Ion Ratio Lower Upper
 119 100
 134 26.0 13.0 39.0
 91 24.3 12.2 36.4





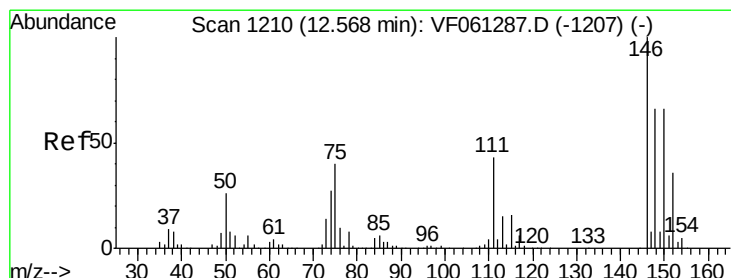
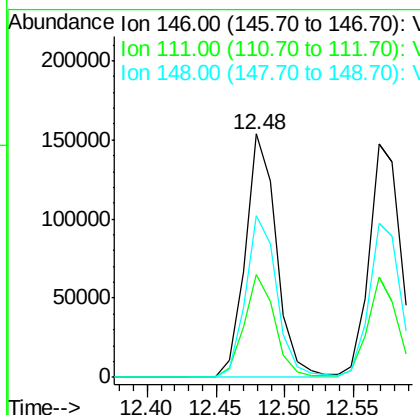
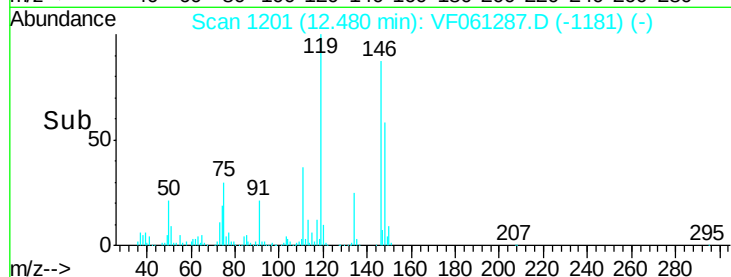
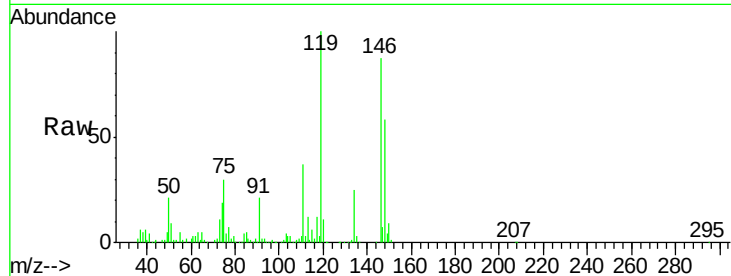
#87
 1,3-Dichlorobenzene
 Concen: 49.699 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.1	63.3
148	66.3	33.1	99.5

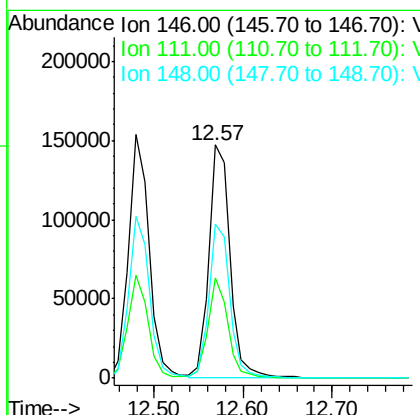
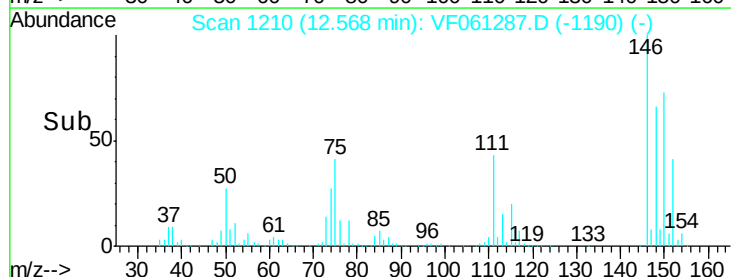
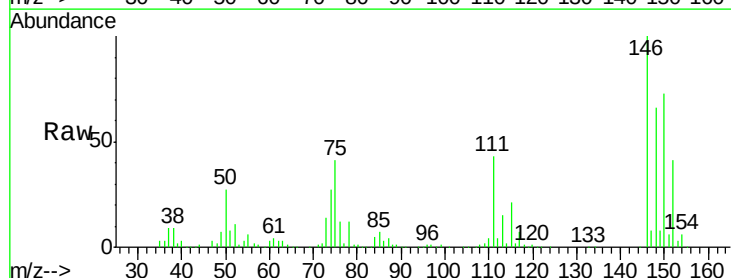
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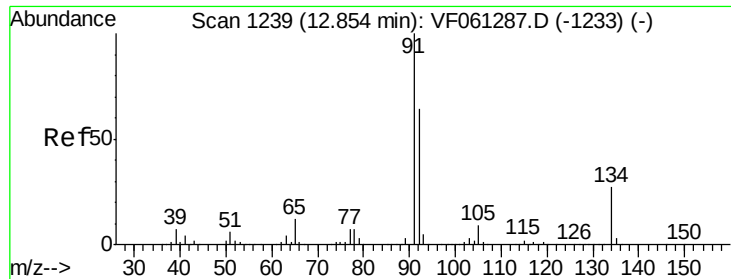
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#88
 1,4-Dichlorobenzene
 Concen: 50.768 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.2
148	65.9	33.0	98.9





#89

n-Butylbenzene

Concen: 53.245 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 616703

Ion Ratio Lower Upper

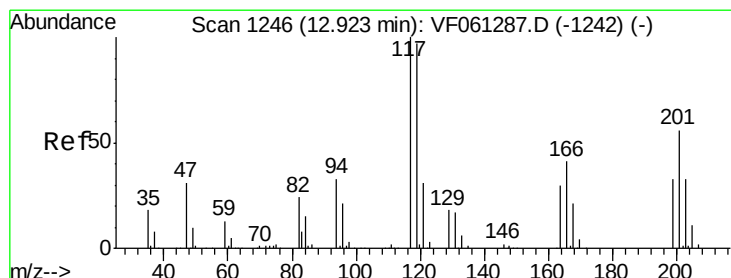
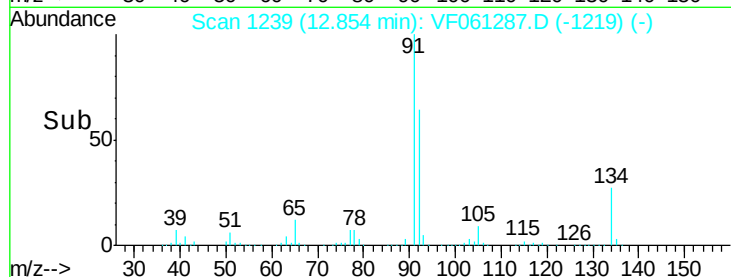
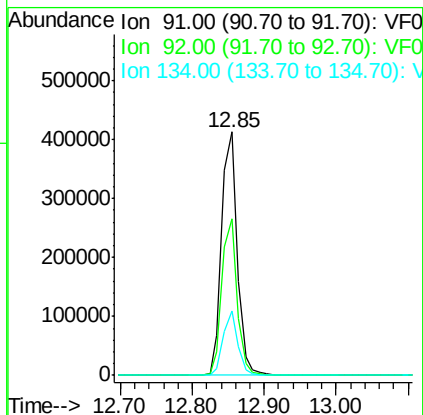
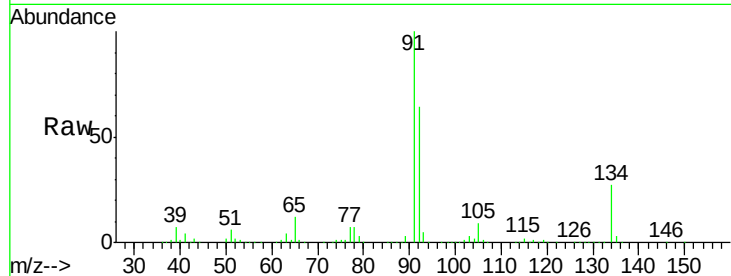
91 100

92 64.2 32.1 96.3

134 26.7 13.4 40.1

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#90

Hexachloroethane

Concen: 50.223 ug/l

RT: 12.92 min Scan# 1246

Delta R.T. 0.00 min

Lab File: VF061287.D

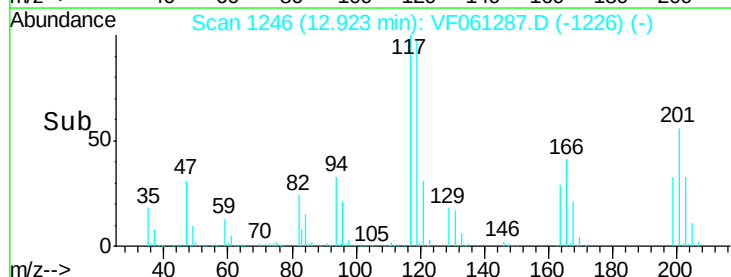
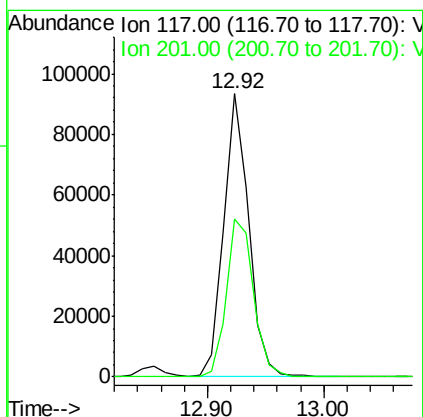
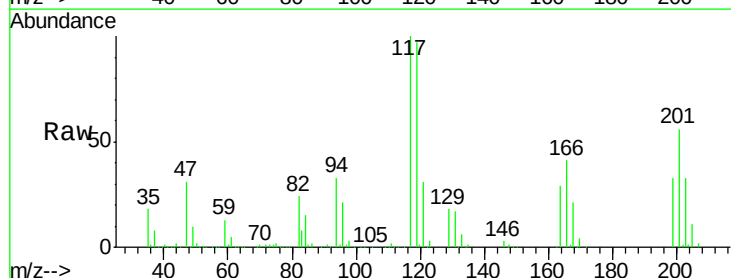
Acq: 8 Jan 2019 15:30

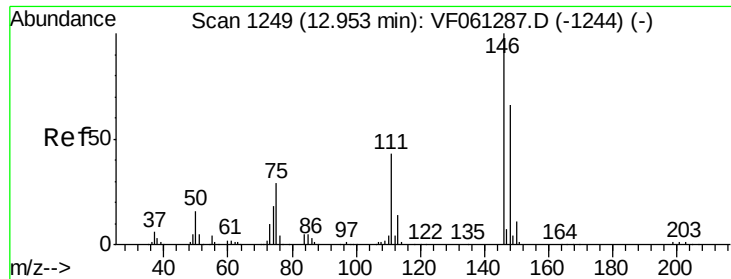
Tgt Ion: 117 Resp: 139681

Ion Ratio Lower Upper

117 100

201 55.8 27.9 83.7





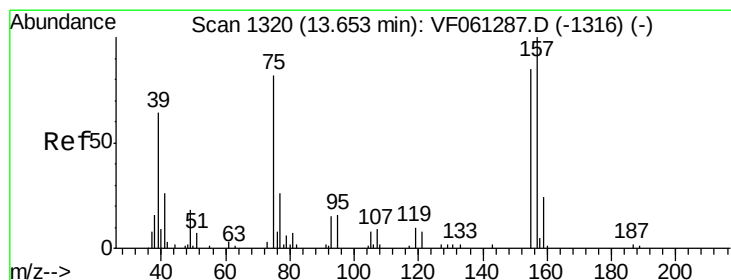
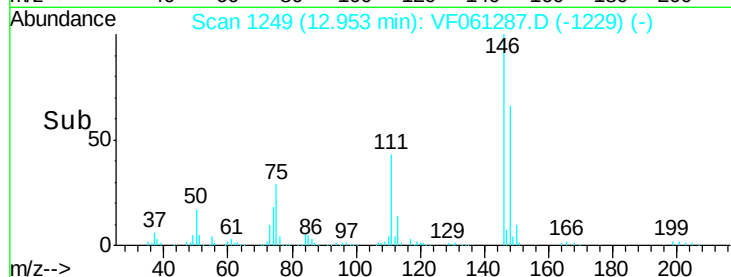
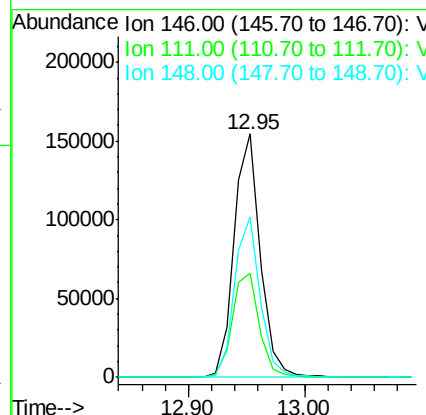
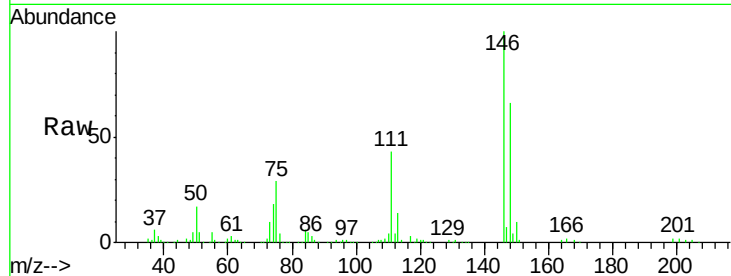
#91
 1,2-Dichlorobenzene
 Concen: 51.160 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	66.1	33.1	99.2

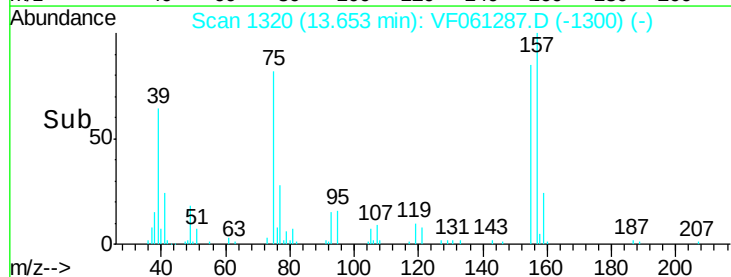
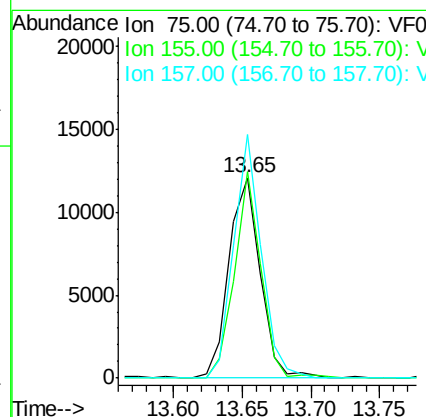
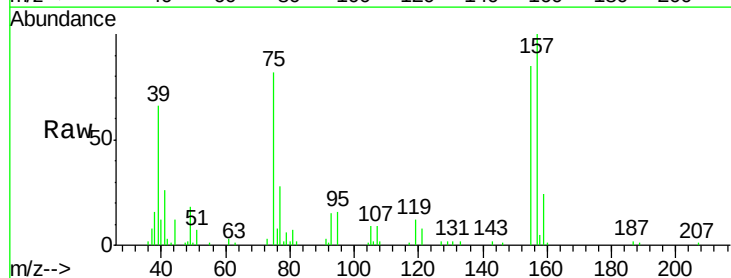
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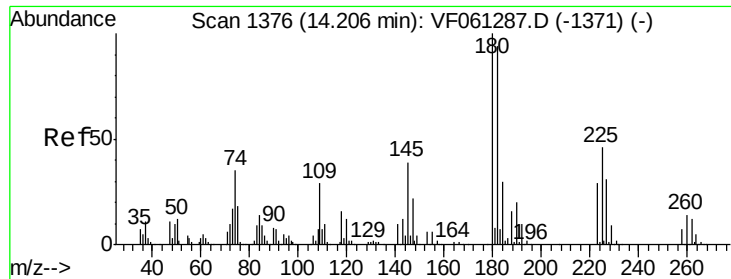
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 50.262 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	102.7	51.3	154.0
157	121.3	60.7	182.0





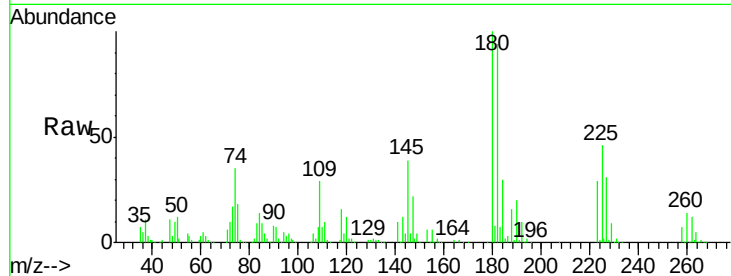
#93
 1,2,4-Trichlorobenzene
 Concen: 51.866 ug/l
 RT: 14.21 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	172218		
182	94.1	47.0	141.2	
145	39.4	19.7	59.1	

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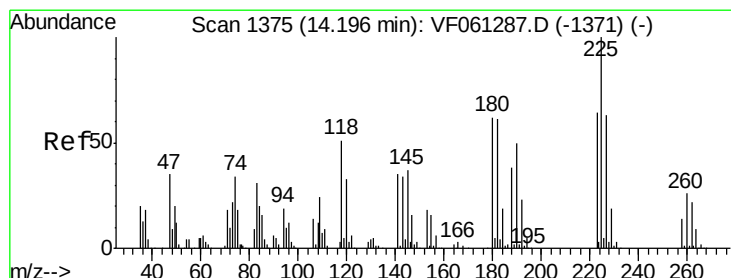
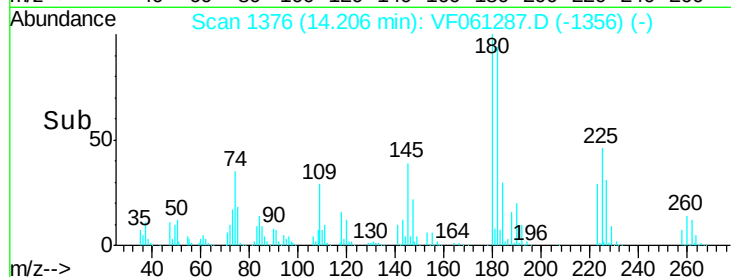
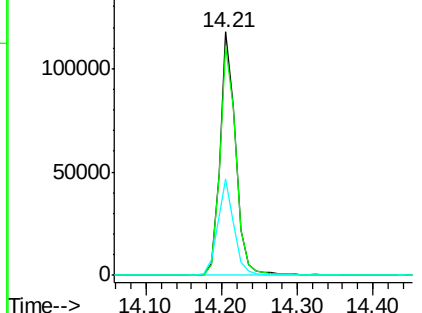


Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 52.214 ug/l
 RT: 14.20 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VF061287.D
 Acq: 8 Jan 2019 15:30

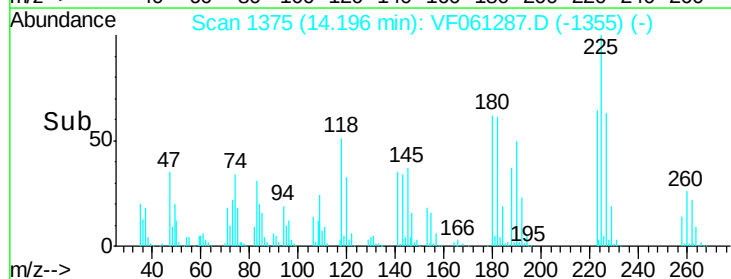
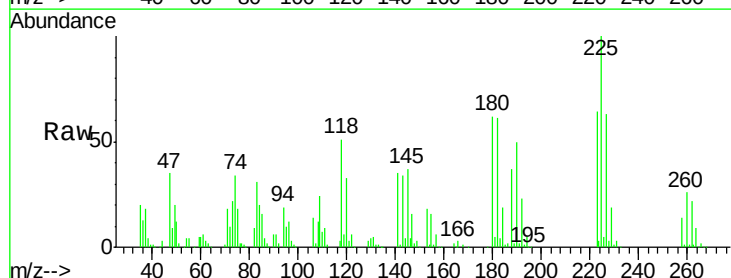
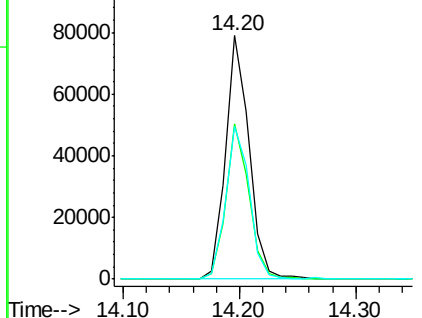
Tgt Ion	Ratio	Resp	Lower	Upper
225	100	110462		
223	63.6	31.8	95.4	
227	62.6	31.3	93.9	

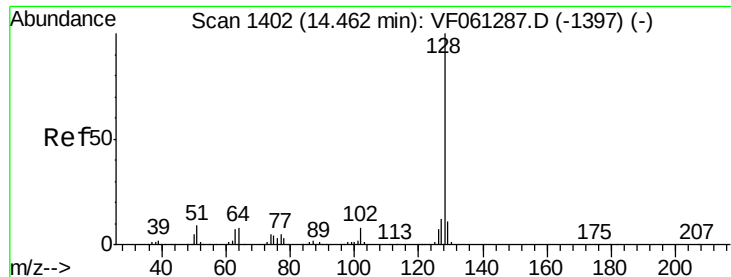
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 52.848 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Instrument :

MSVOA_F

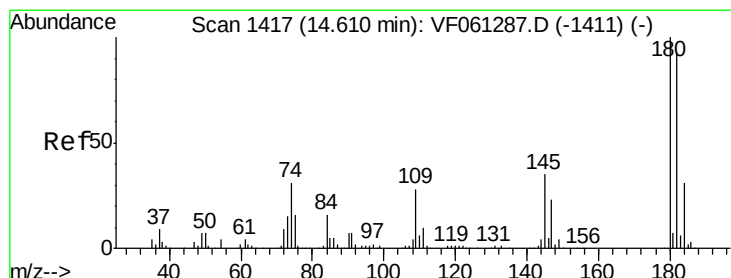
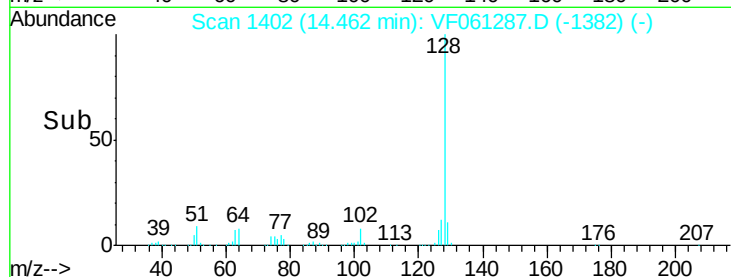
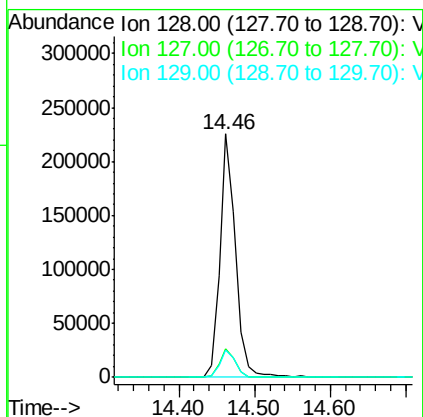
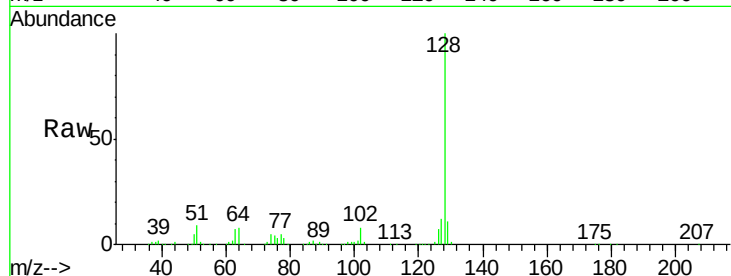
ClientSampleId :

VSTDICCC050

Tot Ion:	128	Resp:	328004
Ion Ratio		Lower	Upper
128	100		
127	11.7	9.4	14.0
129	11.0	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
1/9/2019 11:44:55 AM



#96

1,2,3-Trichlorobenzene

Concen: 52.648 ug/l

RT: 14.61 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VF061287.D

Acq: 8 Jan 2019 15:30

Tgt Ion:	180	Resp:	162086
Ion Ratio		Lower	Upper
180	100		
182	92.9	46.5	139.3
145	35.1	17.5	52.6

