

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011119\
 Data File : VF061363.D
 Acq On : 11 Jan 2019 12:50
 Operator : VA/AP
 Sample : VF0111SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/14/2019 1:16:38 PM

Quant Time: Jan 12 03:44:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	177571	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	309091	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.75	117	297226	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.53	152	146440	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	110873	56.10	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	112.20%	
35) Dibromofluoromethane	4.09	113	131313	55.52	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	111.04%	
50) Toluene-d8	7.53	98	366360	52.35	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	104.70%	
62) 4-Bromofluorobenzene	11.39	95	164340	53.77	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	107.54%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.95	85	68742	20.987	ug/l	99
3) Chloromethane	1.08	50	57650	19.751	ug/l	90
4) Vinyl Chloride	1.13	62	47006	18.031	ug/l	96
5) Bromomethane	1.30	94	33702	17.303	ug/l	94
6) Chloroethane	1.37	64	19673	15.454	ug/l #	84
7) Trichlorofluoromethane	1.46	101	92008	20.819	ug/l	98
8) Diethyl Ether	1.62	74	10289	15.855	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.81	101	45451	19.477	ug/l	95
10) Methyl Iodide	1.88	142	65572m	17.936	ug/l	
11) Tert butyl alcohol	2.56	59	6211	78.487	ug/l #	80
12) 1,1-Dichloroethene	1.77	96	35373	18.957	ug/l	94
13) Acrolein	1.99	56	7130	67.375	ug/l	87
14) Allyl chloride	2.09	41	59147	17.341	ug/l	89
15) Acrylonitrile	2.93	53	21283	75.867	ug/l	98
16) Acetone	2.23	43	49268	107.157	ug/l #	86
17) Carbon Disulfide	1.79	76	109145	17.709	ug/l	100
18) Methyl Acetate	2.34	43	16571	18.319	ug/l #	89
19) Methyl tert-butyl Ether	2.41	73	62621	17.611	ug/l	98
20) Methylene Chloride	2.17	84	37015m	19.030	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	36114	18.264	ug/l	94
22) Diisopropyl ether	2.79	45	114826	17.402	ug/l	99
23) Vinyl Acetate	3.17	43	184519	95.619	ug/l	97
24) 1,1-Dichloroethane	2.86	63	73019	19.130	ug/l	97
25) 2-Butanone	4.31	43	71984	97.275	ug/l	97
26) 2,2-Dichloropropane	3.59	77	44966	17.629	ug/l	95
27) cis-1,2-Dichloroethene	3.46	96	48339	17.510	ug/l	98
28) Bromochloromethane	3.70	49	37708	22.406	ug/l #	96
29) Tetrahydrofuran	4.06	42	30188	97.569	ug/l	97
30) Chloroform	3.84	83	100049	20.648	ug/l	95
31) Cyclohexane	3.69	56	82207	20.529	ug/l	98
32) 1,1,1-Trichloroethane	4.08	97	75957	19.407	ug/l	91
36) 1,1-Dichloropropene	4.26	75	71664	19.855	ug/l	97
37) Ethyl Acetate	4.09	43	25328	19.269	ug/l #	79
38) Carbon Tetrachloride	3.97	117	67024	19.606	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	83625	18.516	ug/l	98
40) Benzene	4.61	78	170609	20.246	ug/l	99
41) Methacrylonitrile	4.72	41	15240	20.762	ug/l	96
42) 1,2-Dichloroethane	4.92	62	55748	21.249	ug/l	99
43) Isopropyl Acetate	6.94	43	34627	19.954	ug/l #	96
44) Trichloroethene	5.48	130	53357	21.636	ug/l	94
45) 1,2-Dichloropropane	6.21	63	41075	19.168	ug/l	99
46) Dibromomethane	6.06	93	25974	19.741	ug/l	94
47) Bromodichloromethane	6.36	83	72722	22.224	ug/l	95
48) Methyl methacrylate	6.70	41	20772	18.441	ug/l	96
49) 1,4-Dioxane	6.70	88	2779	390.999	ug/l	88
51) 4-Methyl-2-Pentanone	8.23	43	127888	97.637	ug/l	100
52) Toluene	7.60	92	109632	20.241	ug/l	98
53) t-1,3-Dichloropropene	8.25	75	56378	21.939	ug/l	99
54) cis-1,3-Dichloropropene	7.29	75	72811	21.369	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	30745	20.285	ug/l	96
56) Ethyl methacrylate	8.60	69	32781	19.352	ug/l	93
57) 1,3-Dichloropropane	8.84	76	57749	21.529	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.28	63	6102	84.530	ug/l	99
59) 2-Hexanone	9.48	43	98385	106.024	ug/l	100
60) Dibromochloromethane	8.70	129	43922	21.763	ug/l	91
61) 1,2-Dibromoethane	8.96	107	30770	19.916	ug/l	98
64) Tetrachloroethene	8.14	164	46254	21.374	ug/l	96
65) Chlorobenzene	9.78	112	122818	20.463	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.91	131	50029	20.428	ug/l	99
67) Ethyl Benzene	9.88	91	240289	20.764	ug/l	93
68) m/p-Xylenes	10.11	106	162825	40.336	ug/l	98
69) o-Xylene	10.70	106	92407	20.493	ug/l	98
70) Styrene	10.77	104	128479	21.388	ug/l	97
71) Bromoform	10.76	173	19763	19.745	ug/l	94
73) Isopropylbenzene	11.10	105	273450	21.221	ug/l	99
74) N-amyl acetate	11.36	43	56325	19.229	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	41189	20.160	ug/l	99
76) 1,2,3-Trichloropropane	11.78	75	30015	20.030	ug/l	96
77) Bromobenzene	11.48	156	55066	21.480	ug/l	93
78) n-propylbenzene	11.58	91	318701	20.743	ug/l	99
79) 2-Chlorotoluene	11.71	91	178676	20.874	ug/l	100
80) 1,3,5-Trimethylbenzene	11.80	105	219218	21.380	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.85	75	13284m	20.286	ug/l	
82) 4-Chlorotoluene	11.88	91	178443	20.515	ug/l	97
83) tert-Butylbenzene	12.12	119	219212	21.459	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	214046	21.026	ug/l	95
85) sec-Butylbenzene	12.29	105	292647	20.120	ug/l	96
86) p-Isopropyltoluene	12.45	119	245805	20.777	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	103274	20.629	ug/l	96
88) 1,4-Dichlorobenzene	12.55	146	101649	21.120	ug/l	96
89) n-Butylbenzene	12.83	91	264026	21.720	ug/l	95
90) Hexachloroethane	12.90	117	57878	21.387	ug/l	91
91) 1,2-Dichlorobenzene	12.93	146	98426	20.598	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7335	21.248	ug/l	73

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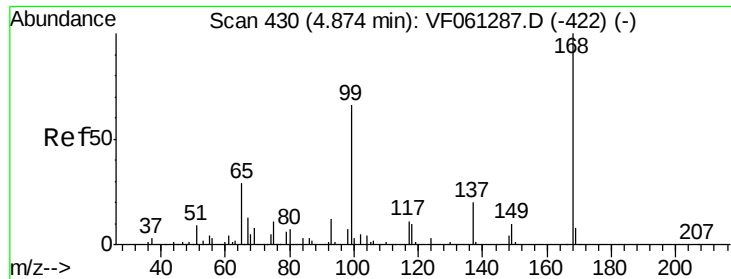
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	67704	20.589	ug/l	99
94) Hexachlorobutadiene	14.18	225	42822	20.228	ug/l	96
95) Naphthalene	14.45	128	109104	17.606	ug/l	97
96) 1,2,3-Trichlorobenzene	14.59	180	58150	18.773	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion:168 Resp: 177571

Ion Ratio Lower Upper

168 100

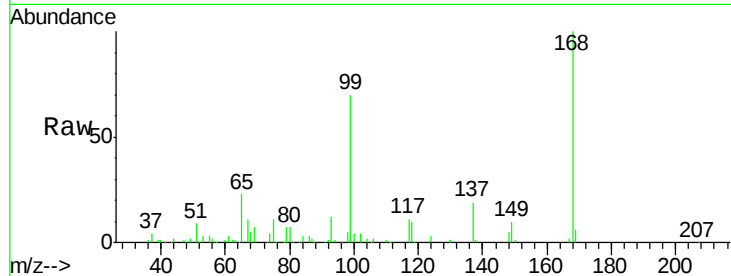
99 69.7 52.7 79.1

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

60000

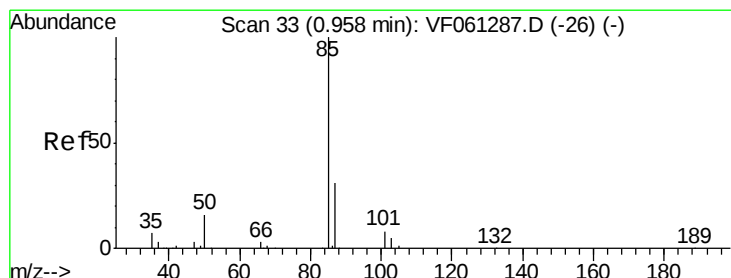
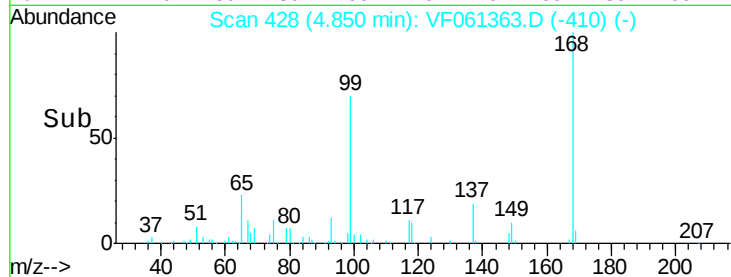
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 20.987 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061363.D

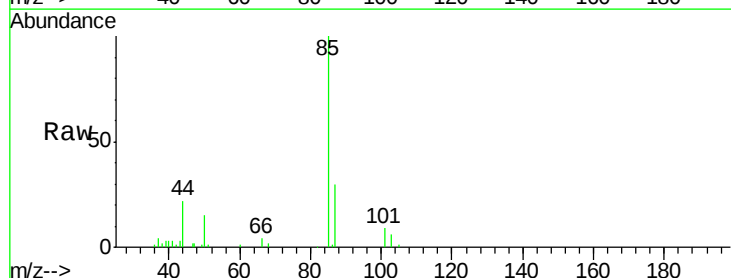
Acq: 11 Jan 2019 12:50

Tgt Ion: 85 Resp: 68742

Ion Ratio Lower Upper

85 100

87 30.1 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

25000

20000

15000

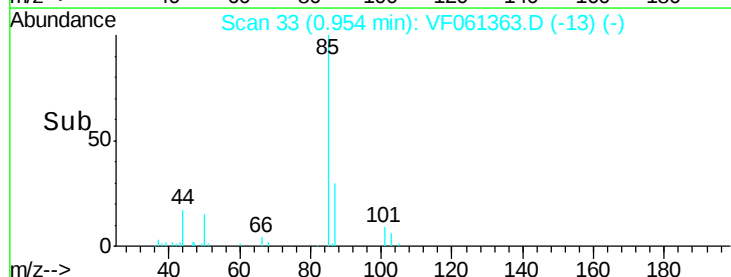
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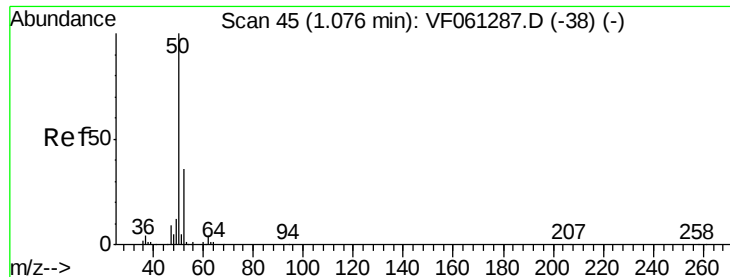
5000

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 19.751 ug/l

RT: 1.08 min Scan# 46

Delta R.T. 0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 50 Resp: 57650

Ion Ratio Lower Upper

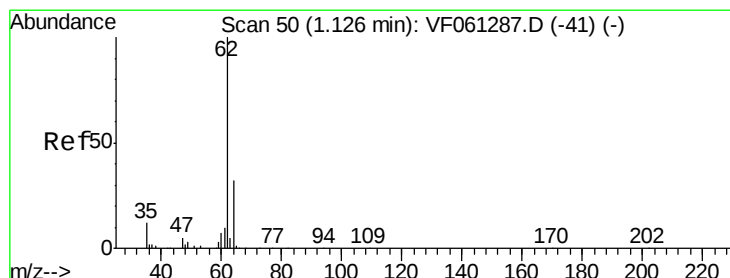
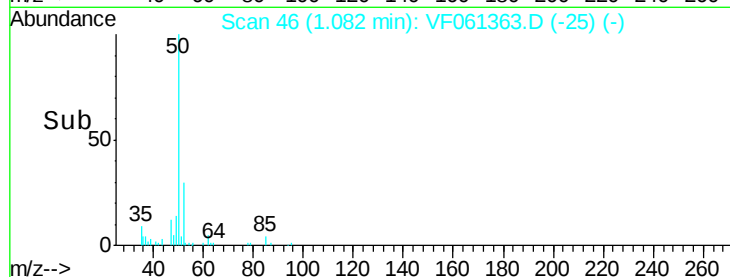
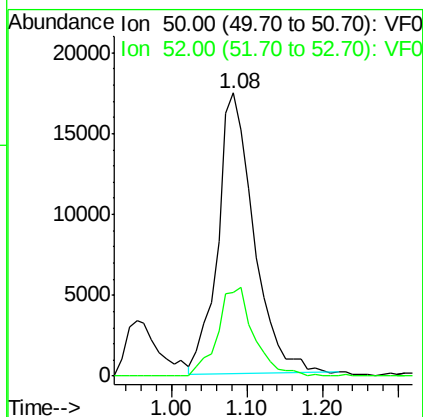
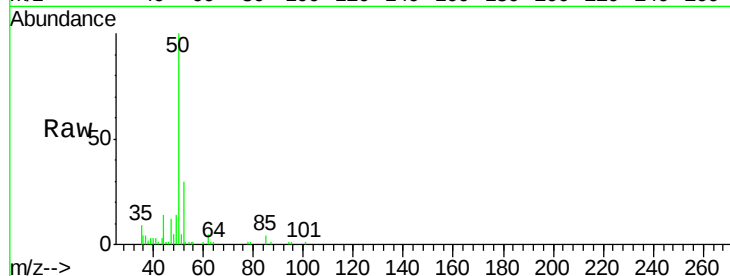
50 100

52 29.5 28.2 42.2

Manual Integrations
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1/14/2019 1:16:38 PM



#4

Vinyl Chloride

Concen: 18.031 ug/l

RT: 1.13 min Scan# 51

Delta R.T. 0.01 min

Lab File: VF061363.D

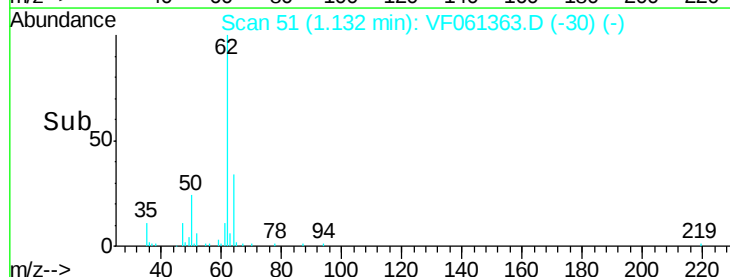
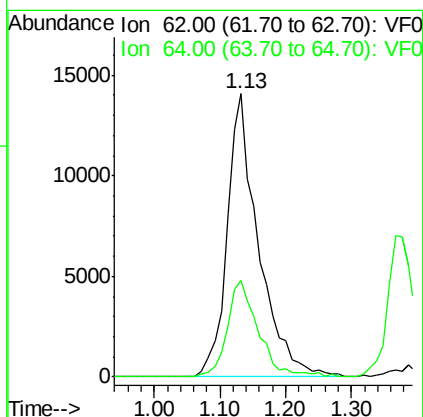
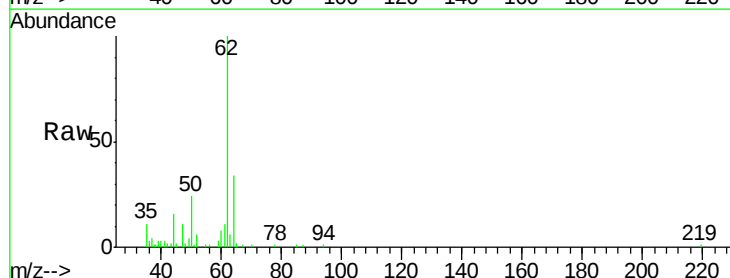
Acq: 11 Jan 2019 12:50

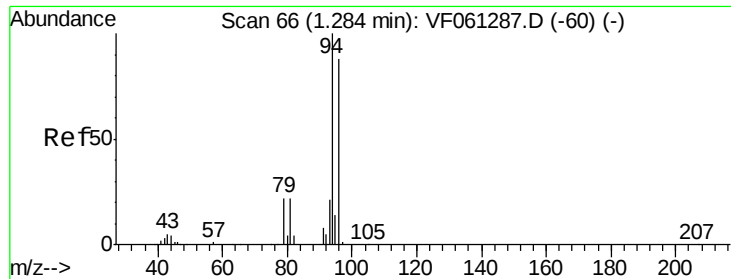
Tgt Ion: 62 Resp: 47006

Ion Ratio Lower Upper

62 100

64 34.1 25.4 38.0





#5

Bromomethane

Concen: 17.303 ug/l

RT: 1.30 min Scan# 68

Delta R.T. 0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 94 Resp: 33702

Ion Ratio Lower Upper

94 100

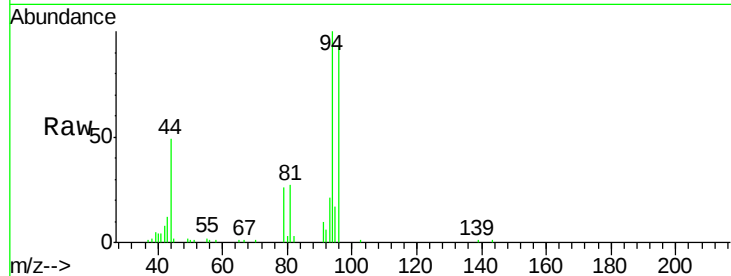
96 93.3 70.2 105.4

Manual Integrations

APPROVED

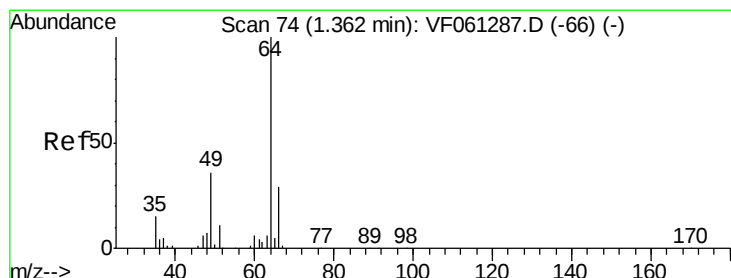
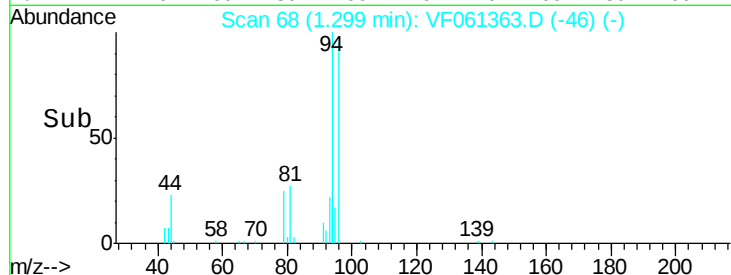
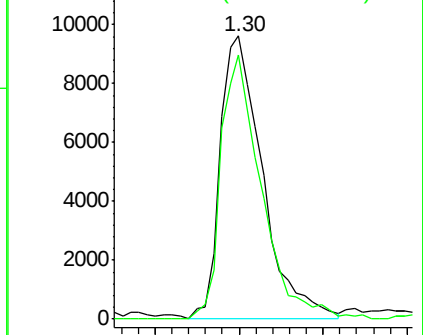
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 15.454 ug/l

RT: 1.37 min Scan# 75

Delta R.T. 0.01 min

Lab File: VF061363.D

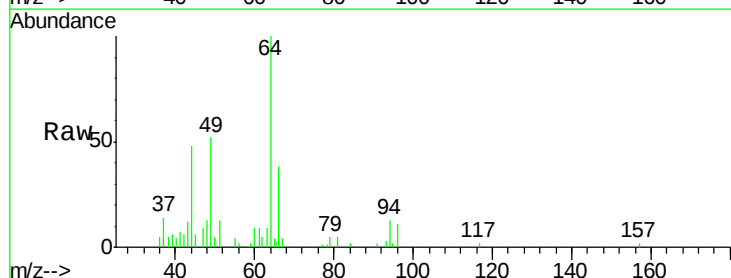
Acq: 11 Jan 2019 12:50

Tgt Ion: 64 Resp: 19673

Ion Ratio Lower Upper

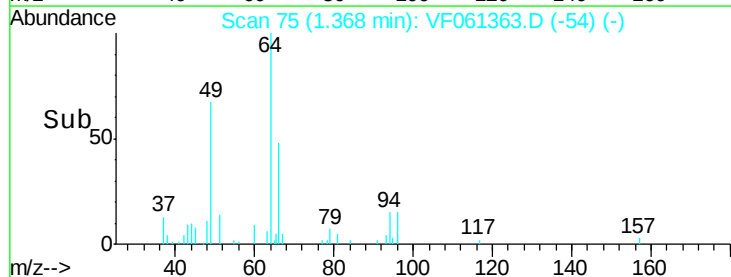
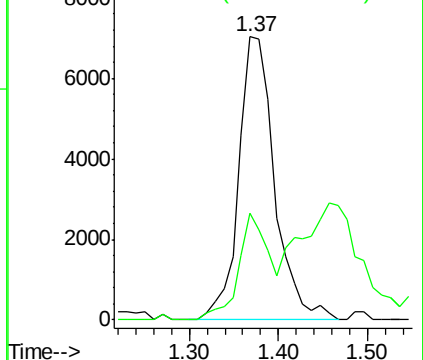
64 100

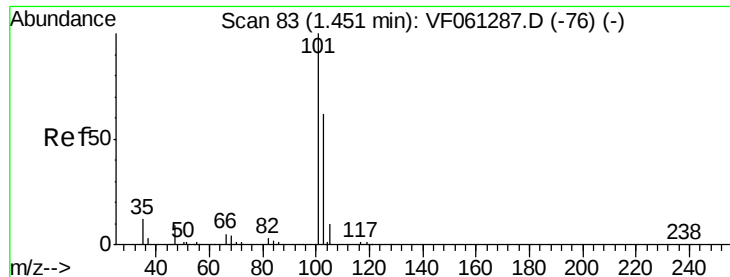
66 37.6 23.4 35.0#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

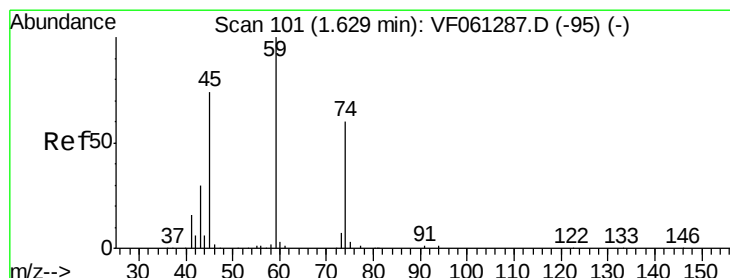
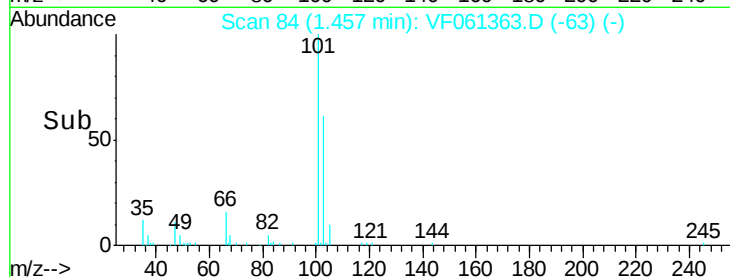
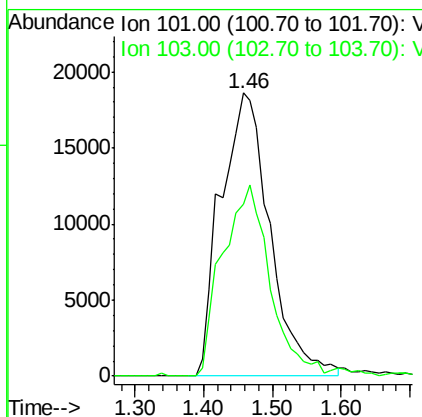
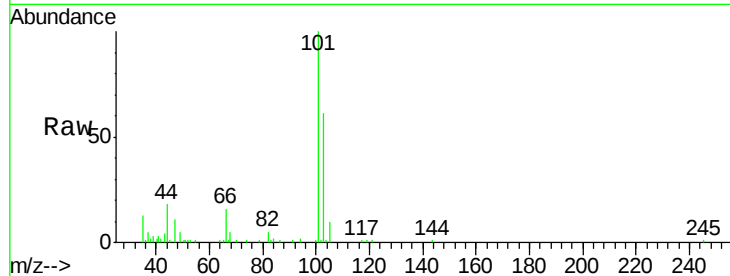
Trichlorofluoromethane
 Concen: 20.819 ug/l
 RT: 1.46 min Scan# 84
 Delta R.T. 0.01 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

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Tot Ion	Ratio	Lower	Upper
101	100		
103	61.0	49.9	74.9

Manual Integrations
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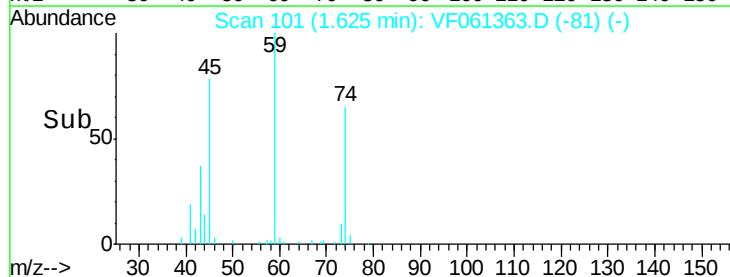
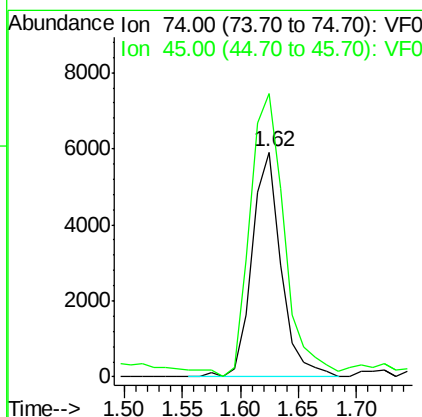
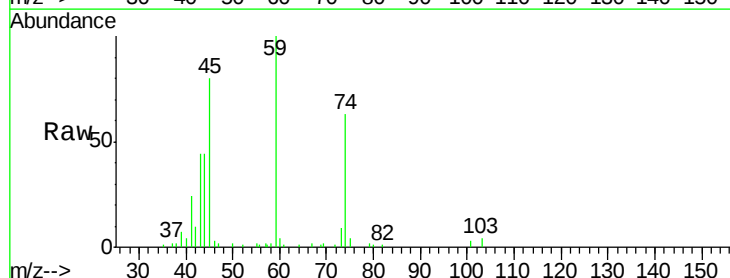
MMDadoda
 1/14/2019 1:16:38 PM

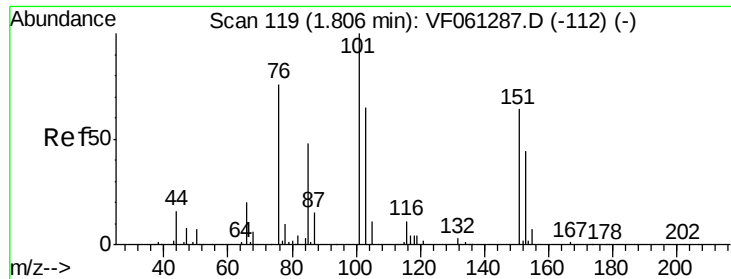


#8

Diethyl Ether
 Concen: 15.855 ug/l
 RT: 1.62 min Scan# 101
 Delta R.T. -0.00 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	125.9	62.1	186.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.477 ug/l

RT: 1.81 min Scan# 120

Delta R.T. 0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

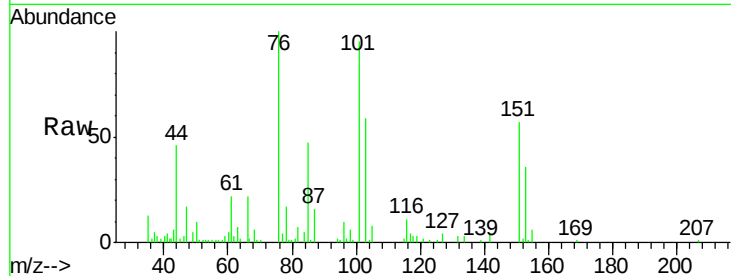
ClientSampleId :

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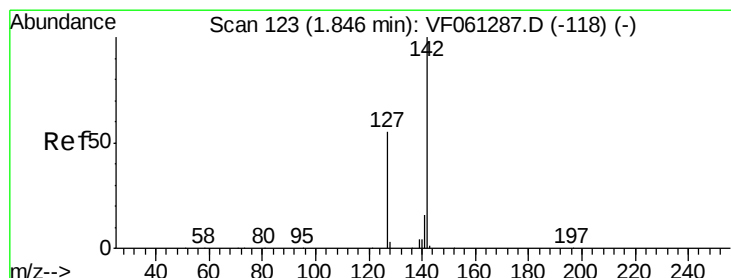
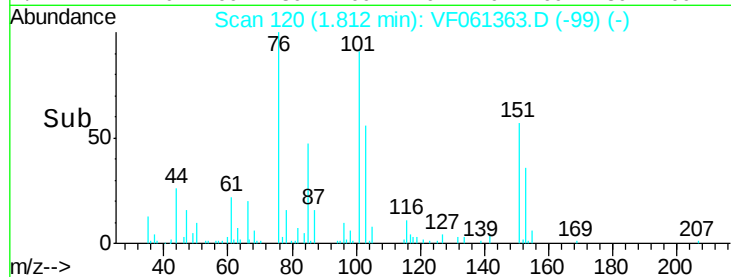
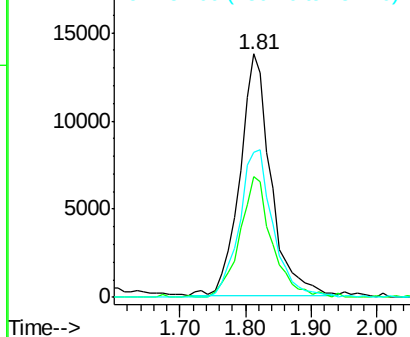
Tot Ion:	101	Resp:	45451
Ion Ratio	Lower	Upper	
101	100		
85	49.7	38.4	57.6
151	59.5	51.4	77.2

Manual Integrations
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Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VF0
Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 17.936 ug/l m

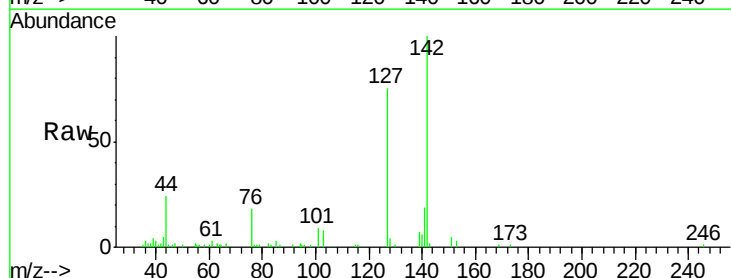
RT: 1.88 min Scan# 127

Delta R.T. 0.04 min

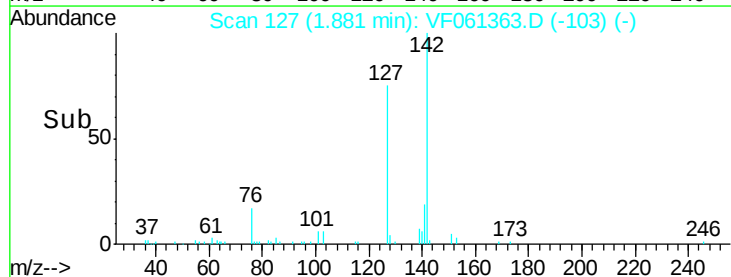
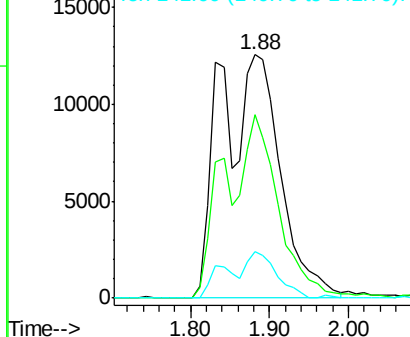
Lab File: VF061363.D

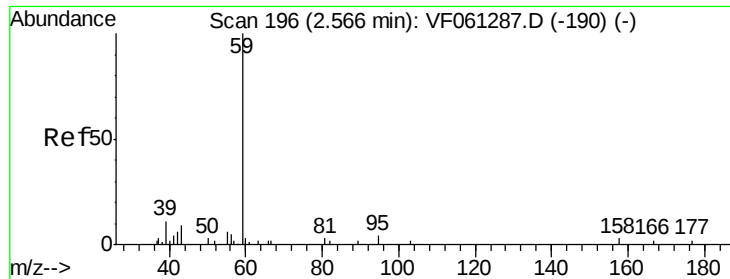
Acq: 11 Jan 2019 12:50

Tgt Ion:	142	Resp:	65572
Ion Ratio	Lower	Upper	
142	100		
127	75.3	44.3	66.5#
141	19.3	13.2	19.8



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 141.00 (140.70 to 141.70): V





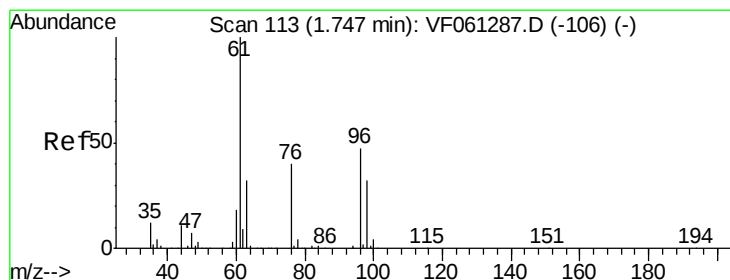
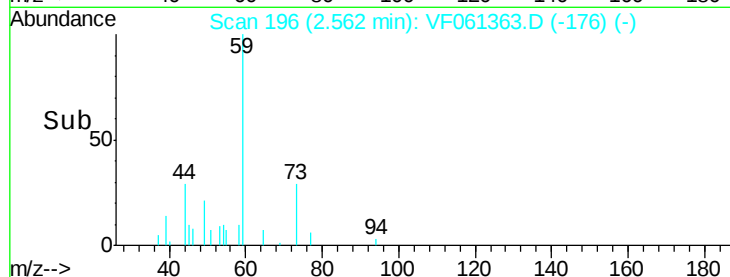
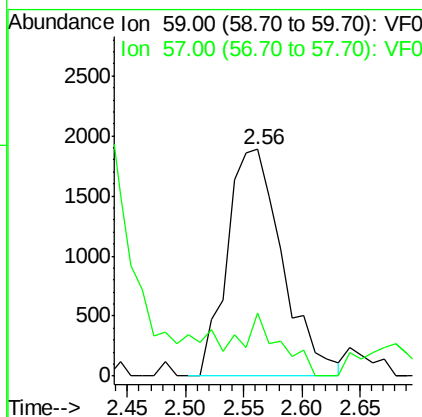
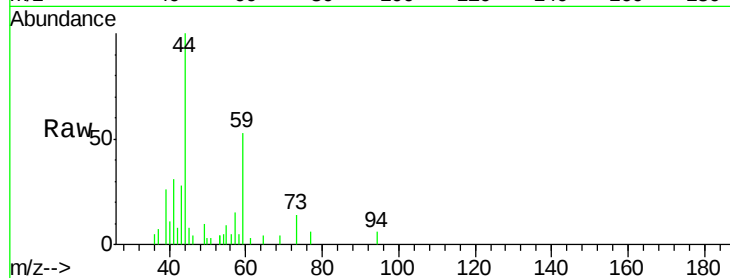
#11
Tert butyl alcohol
Concen: 78.487 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampled :
VF0111SBS01

Tot Ion: 59 Resp: 6211
Ion Ratio Lower Upper
59 100
57 27.9 15.1 22.7#

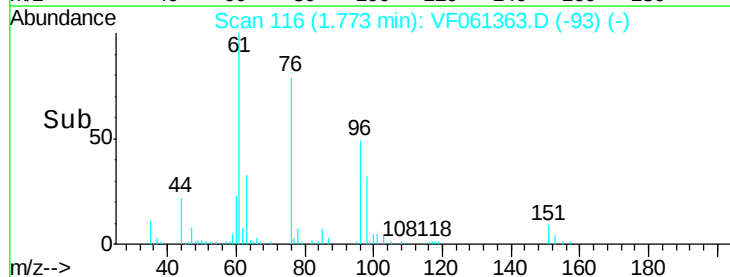
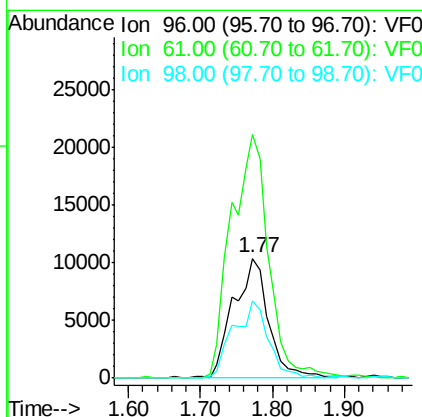
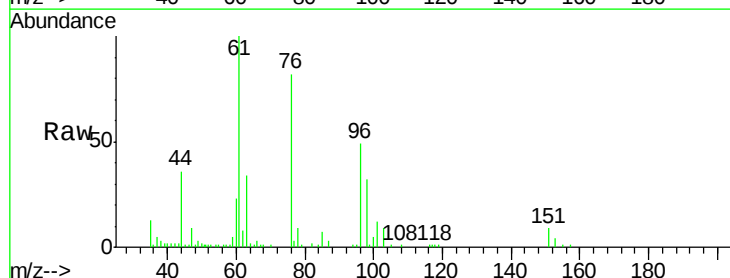
Manual Integrations
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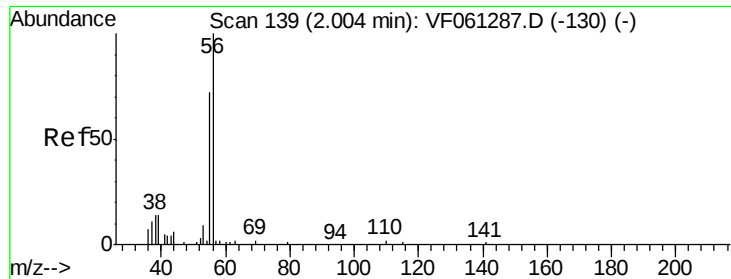
MMDadoda
1/14/2019 1:16:38 PM



#12
1,1-Dichloroethene
Concen: 18.957 ug/l
RT: 1.77 min Scan# 116
Delta R.T. 0.03 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion: 96 Resp: 35373
Ion Ratio Lower Upper
96 100
61 203.8 171.8 257.8
98 64.3 54.2 81.4





#13

Acrolein

Concen: 67.375 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 56 Resp: 7130

Ion Ratio Lower Upper

56 100

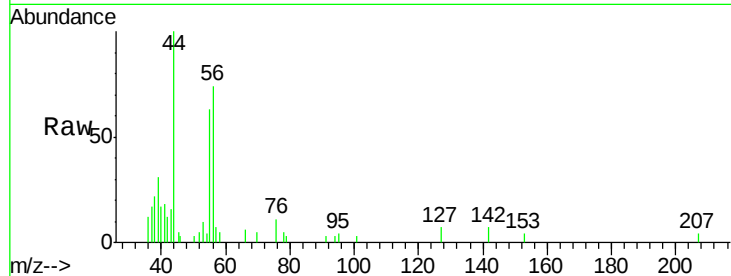
55 85.4 59.4 89.0

Manual Integrations

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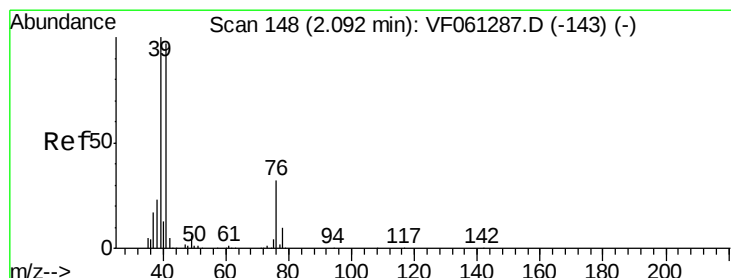
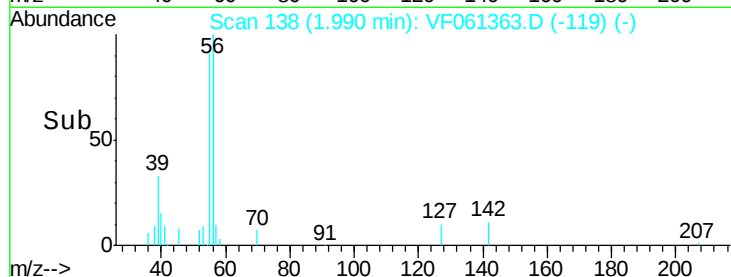
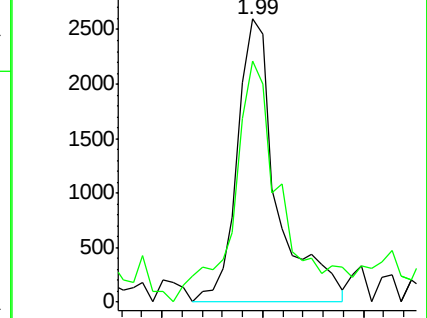
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 17.341 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

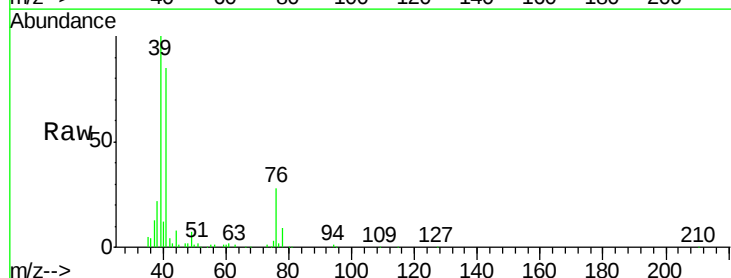
Tgt Ion: 41 Resp: 59147

Ion Ratio Lower Upper

41 100

39 117.8 82.6 123.8

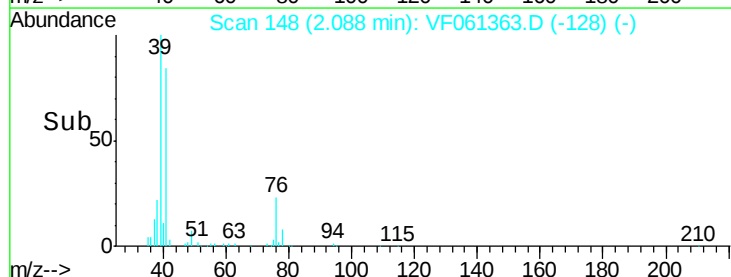
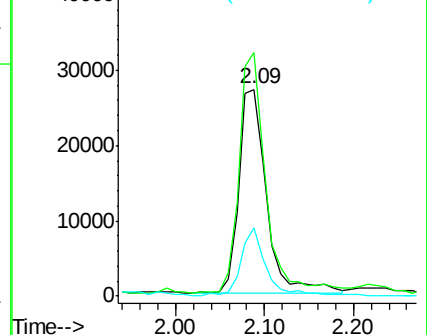
76 33.3 26.9 40.3

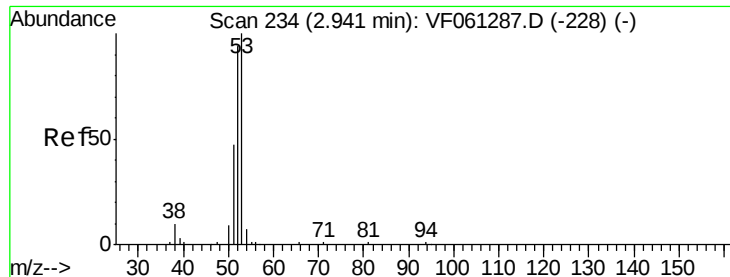


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 75.867 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

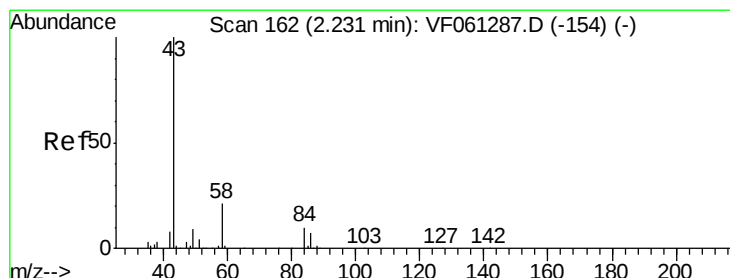
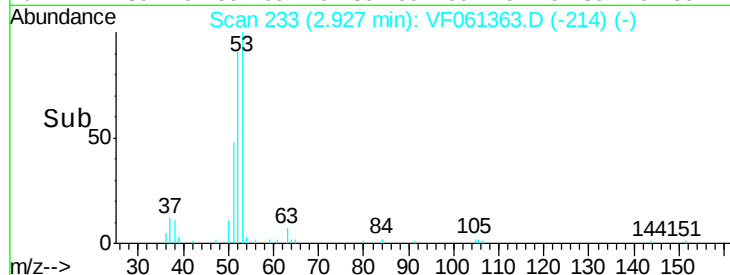
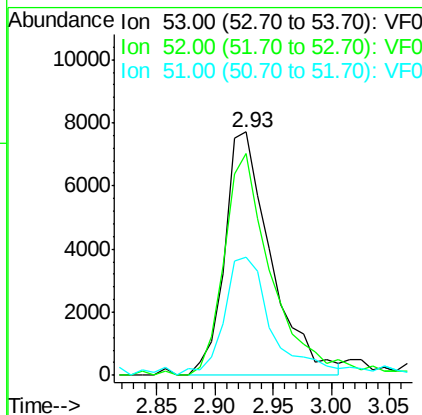
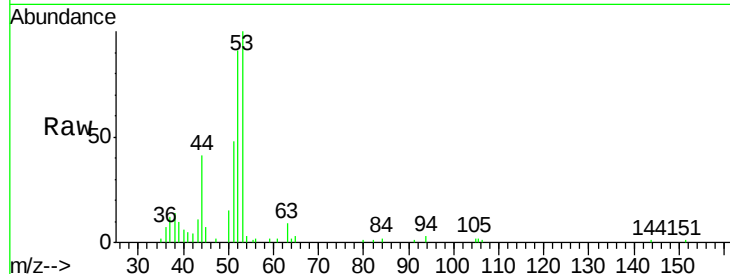
ClientSampleId :

VF0111SBS01

Tot Ion:	53	Resp:	21283
Ion	Ratio	Lower	Upper
53	100		
52	90.9	74.6	111.8
51	48.5	37.8	56.6

Manual Integrations
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#16

Acetone

Concen: 107.157 ug/l

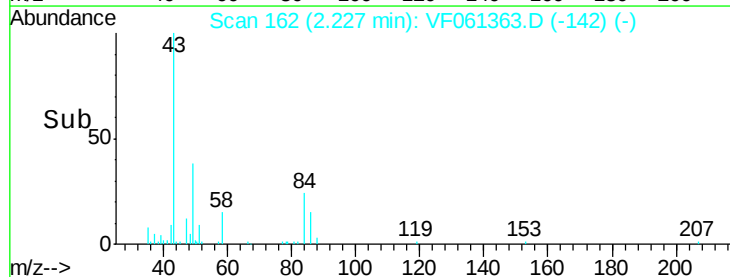
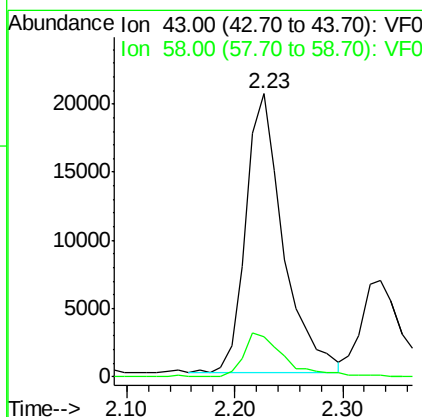
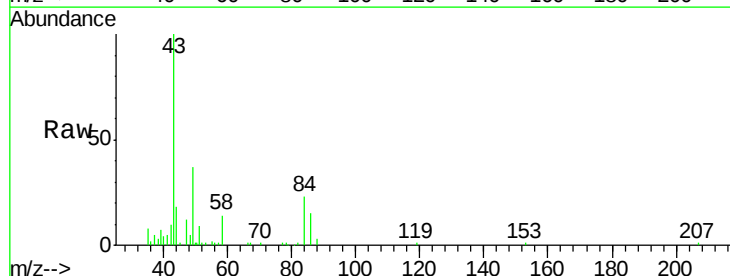
RT: 2.23 min Scan# 162

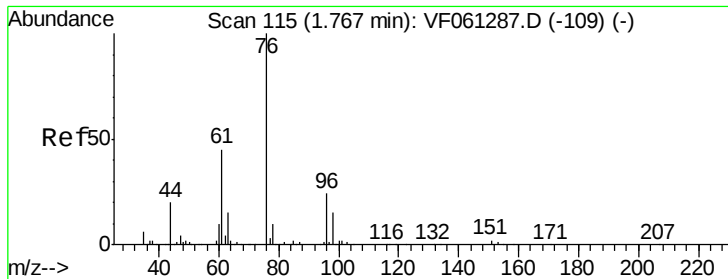
Delta R.T. -0.00 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion:	43	Resp:	49268
Ion	Ratio	Lower	Upper
43	100		
58	14.2	16.6	25.0#





#17

Carbon Disulfide

Concen: 17.709 ug/l

RT: 1.79 min Scan# 118

Delta R.T. 0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 76 Resp: 109145

Ion Ratio Lower Upper

76 100

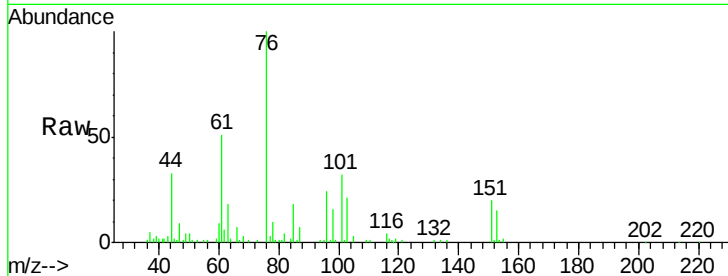
78 9.8 7.8 11.6

Manual Integrations

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Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

25000

20000

15000

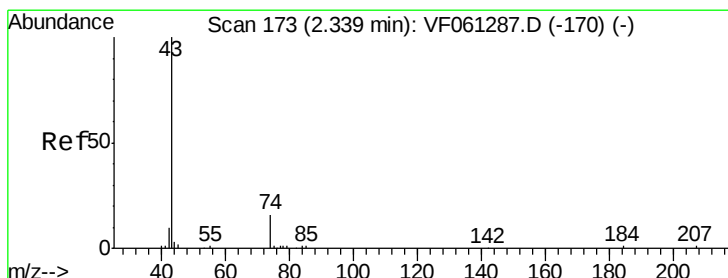
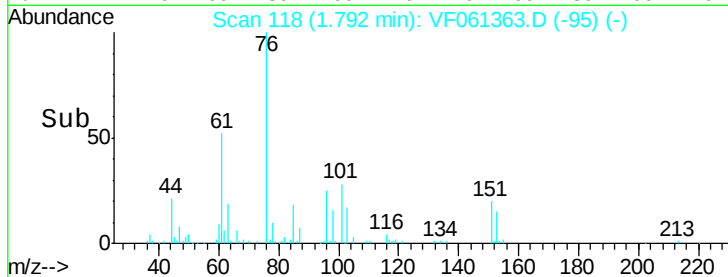
10000

5000

0

1.70 1.80 1.90

Time-->



#18

Methyl Acetate

Concen: 18.319 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF061363.D

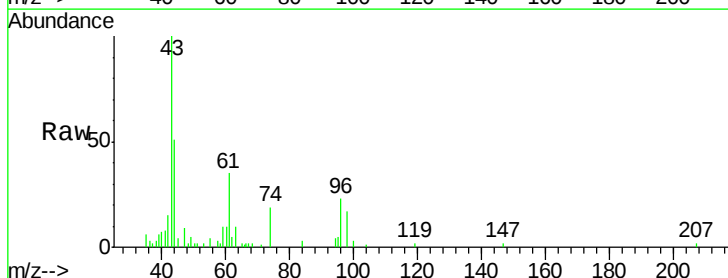
Acq: 11 Jan 2019 12:50

Tgt Ion: 43 Resp: 16571

Ion Ratio Lower Upper

43 100

74 19.1 11.6 17.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

8000

6000

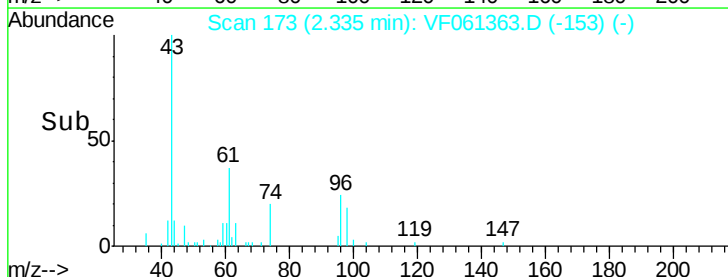
4000

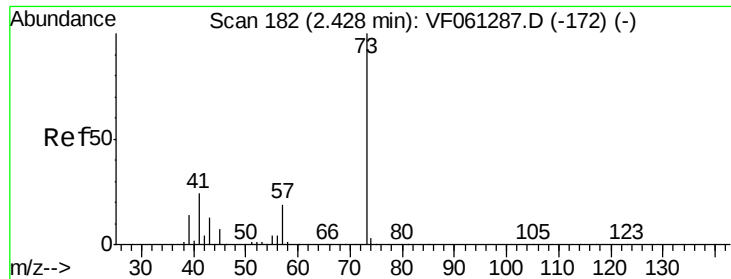
2000

0

2.30 2.35 2.40

Time-->





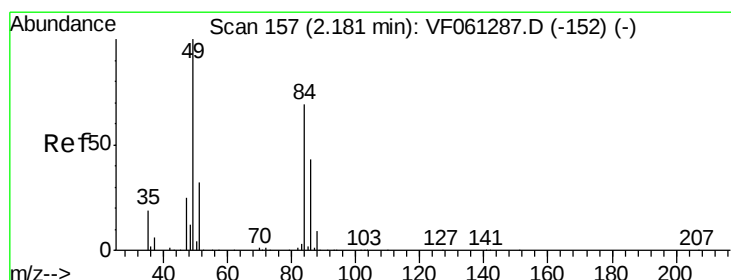
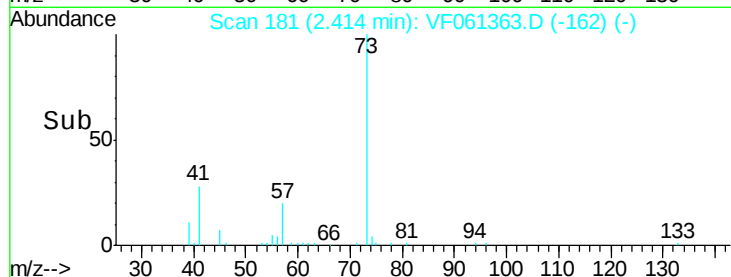
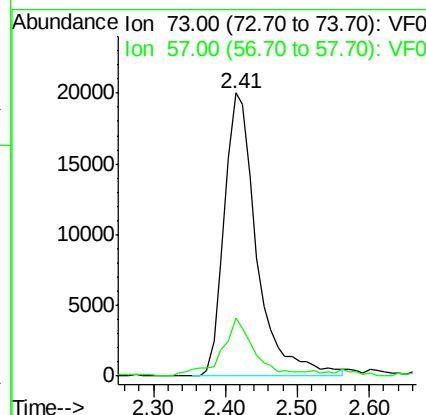
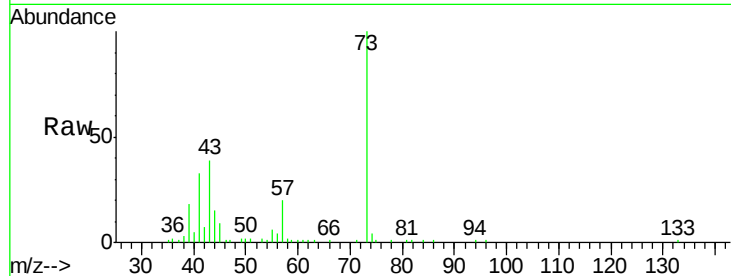
#19
Methvl tert-butvl Ether
Concen: 17.611 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion: 73 Resp: 62621
Ion Ratio Lower Upper
73 100
57 20.4 15.5 23.3

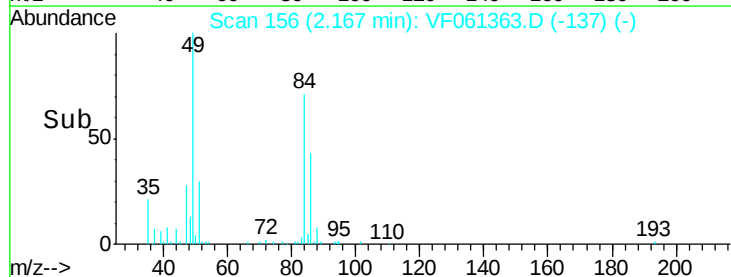
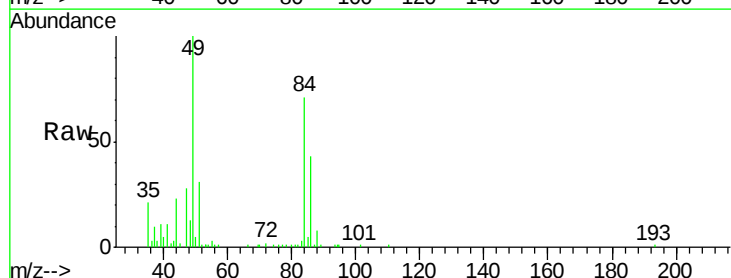
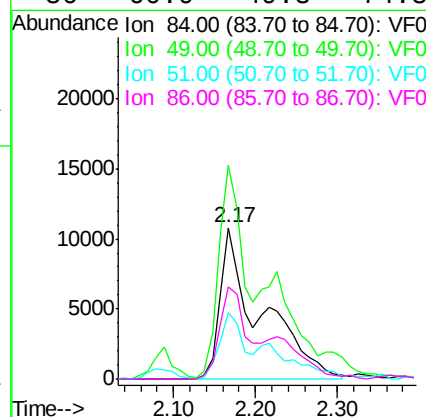
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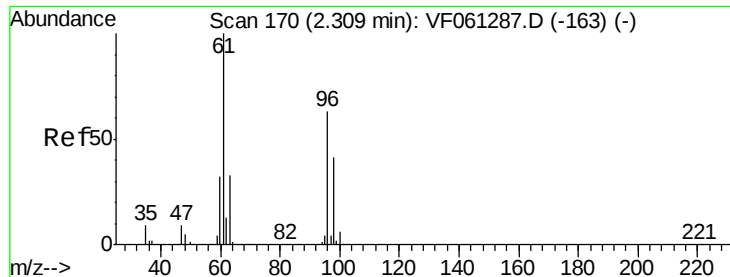
MMDadoda
1/14/2019 1:16:38 PM



#20
Methylene Chloride
Concen: 19.030 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion: 84 Resp: 37015
Ion Ratio Lower Upper
84 100
49 141.2 116.6 175.0
51 44.1 37.7 56.5
86 60.9 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 18.264 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

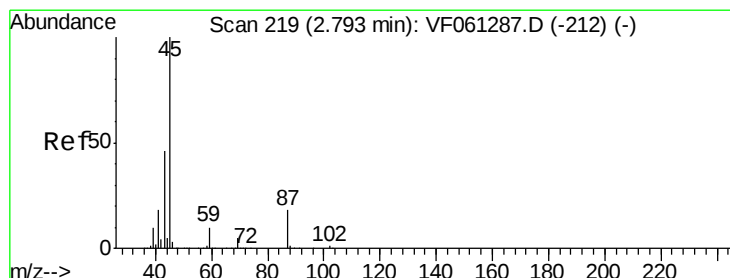
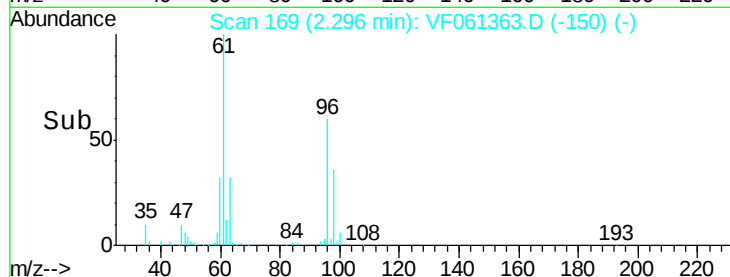
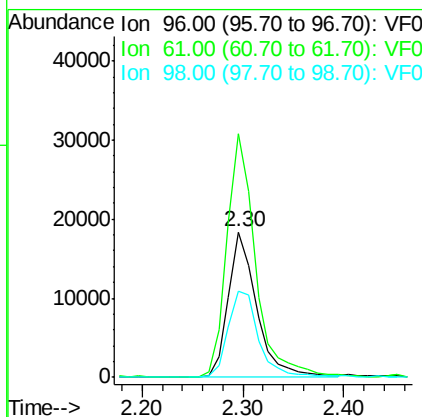
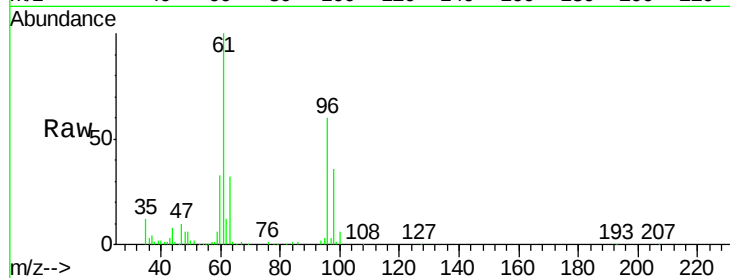
ClientSampleId :

VF0111SBS01

Tot Ion:	96	Resp:	36114
Ion	Ratio	Lower	Upper
96	100		
61	167.2	127.0	190.4
98	59.6	51.7	77.5

Manual Integrations
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1/14/2019 1:16:38 PM



#22

Diisopropyl ether

Concen: 17.402 ug/l

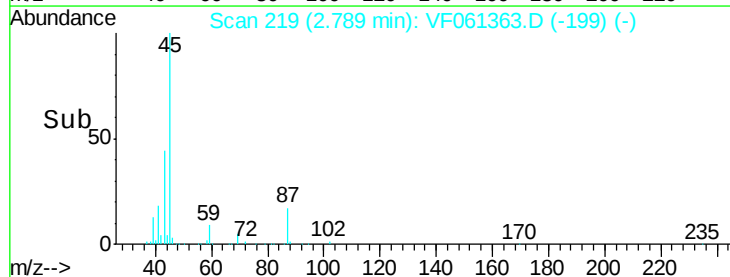
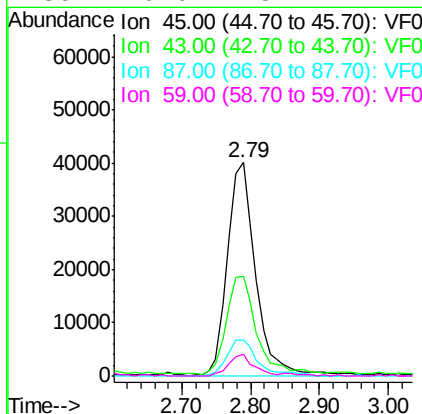
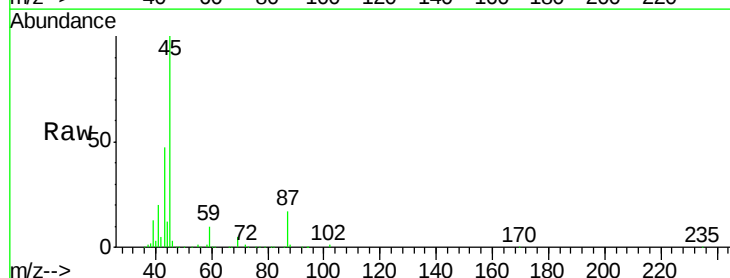
RT: 2.79 min Scan# 219

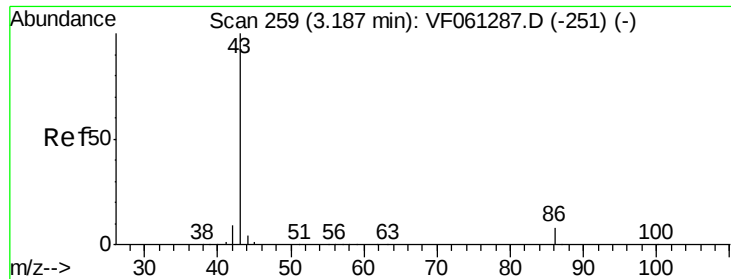
Delta R.T. -0.00 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion:	45	Resp:	114826
Ion	Ratio	Lower	Upper
45	100		
43	46.5	37.4	56.2
87	16.9	14.2	21.2
59	10.0	8.2	12.2





#23

Vinyl Acetate

Concen: 95.619 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 43 Resp: 184519

Ion Ratio Lower Upper

43 100

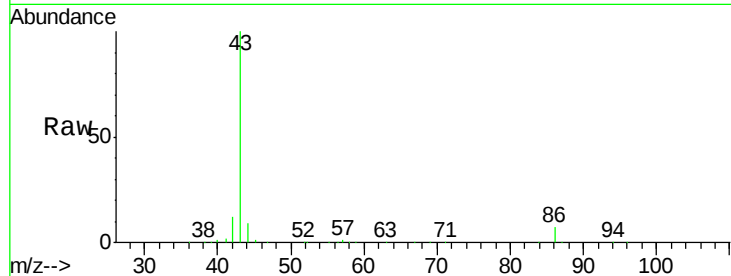
86 7.2 6.5 9.7

Manual Integrations

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1/14/2019 1:16:38 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.17

80000

60000

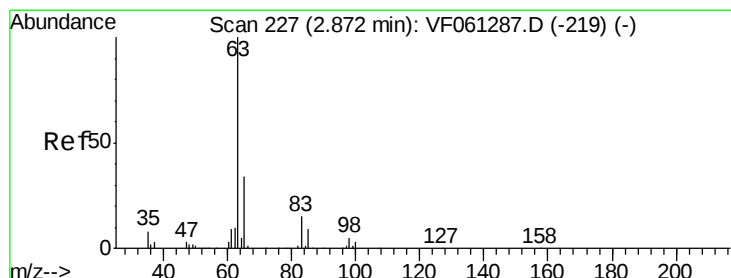
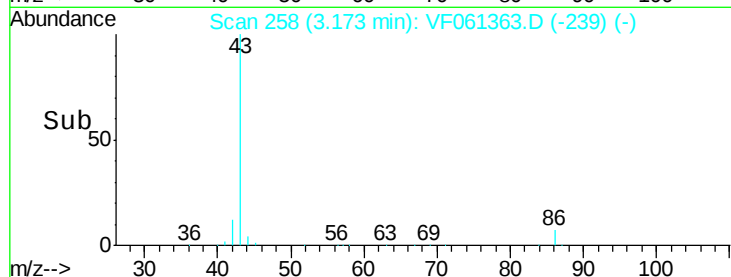
40000

20000

0

Time-->

3.00 3.10 3.20 3.30 3.40



#24

1,1-Dichloroethane

Concen: 19.130 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

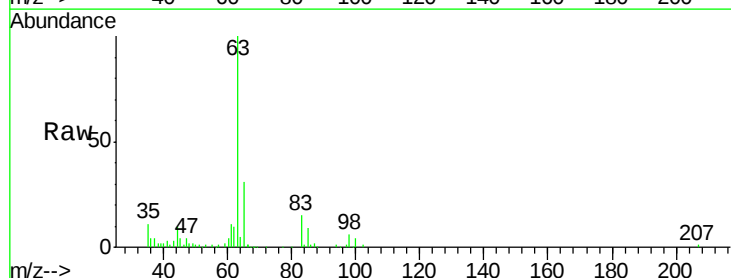
Tgt Ion: 63 Resp: 73019

Ion Ratio Lower Upper

63 100

98 6.0 2.5 7.6

100 4.2 1.7 5.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.86

40000

30000

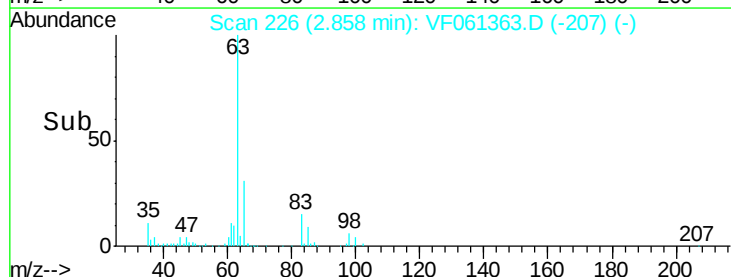
20000

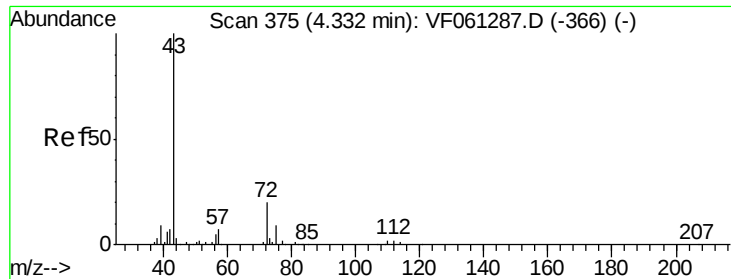
10000

0

Time-->

2.70 2.80 2.90 3.00





#25

2-Butanone

Concen: 97.275 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 43 Resp: 71984

Ion Ratio Lower Upper

43 100

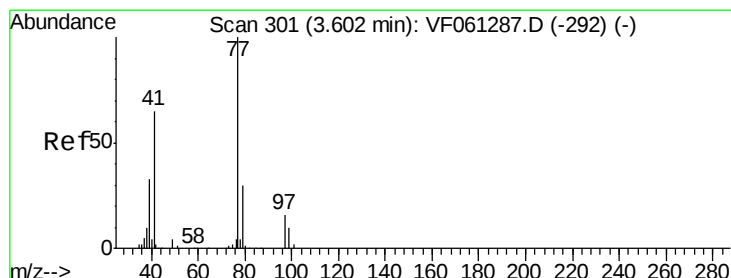
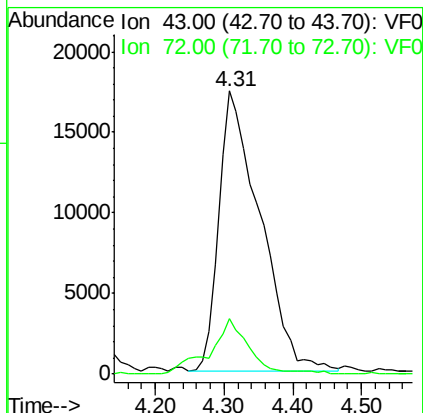
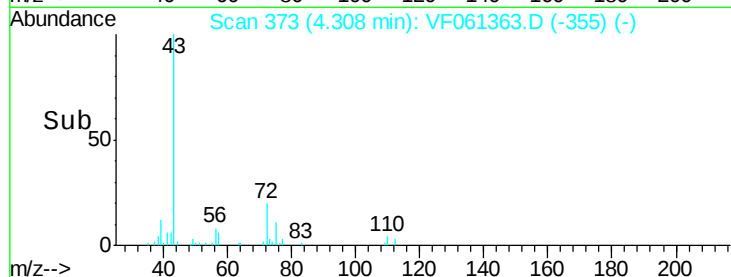
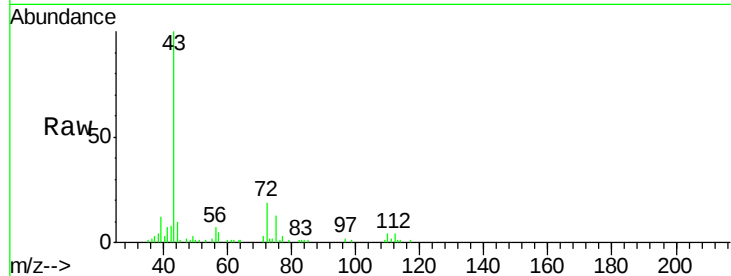
72 19.4 16.5 24.7

Manual Integrations

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1/14/2019 1:16:38 PM



#26

2,2-Dichloropropane

Concen: 17.629 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.01 min

Lab File: VF061363.D

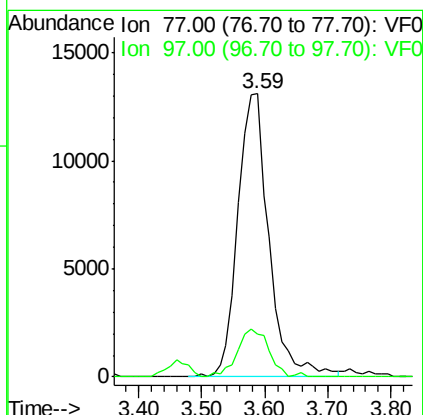
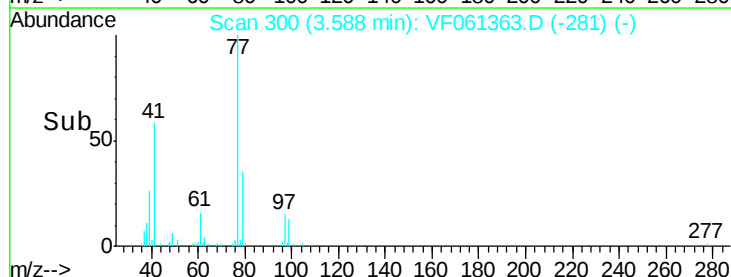
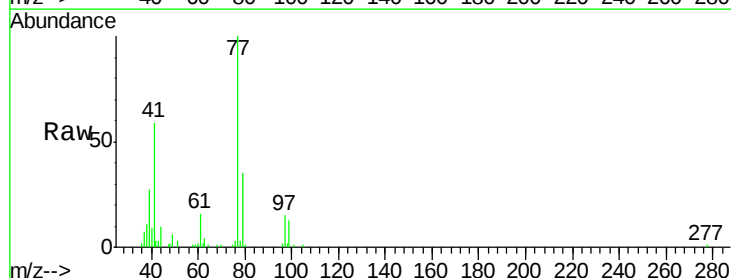
Acq: 11 Jan 2019 12:50

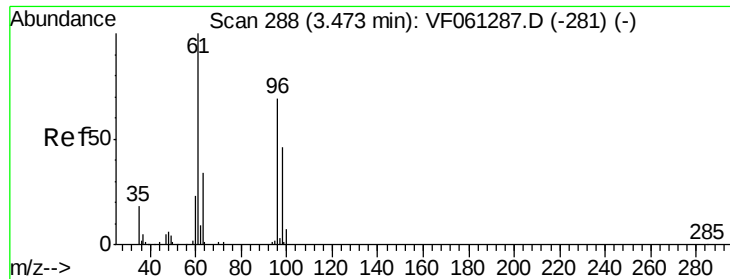
Tgt Ion: 77 Resp: 44966

Ion Ratio Lower Upper

77 100

97 15.1 8.6 25.9





#27

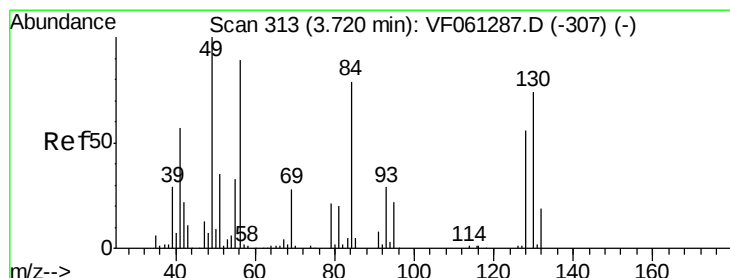
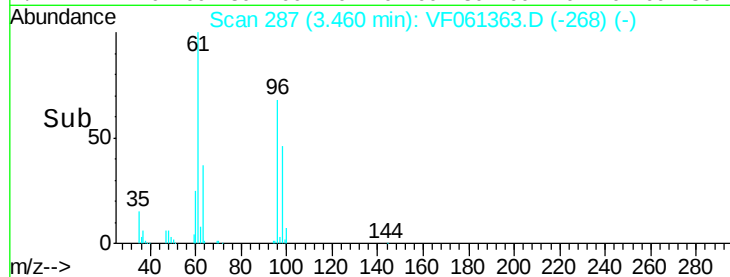
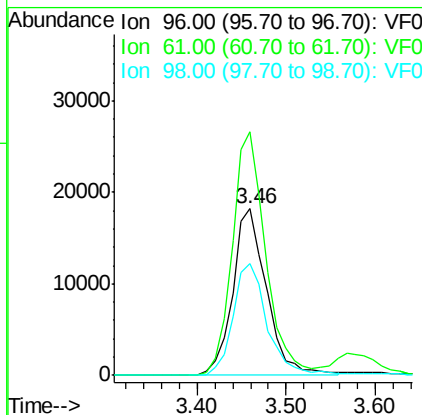
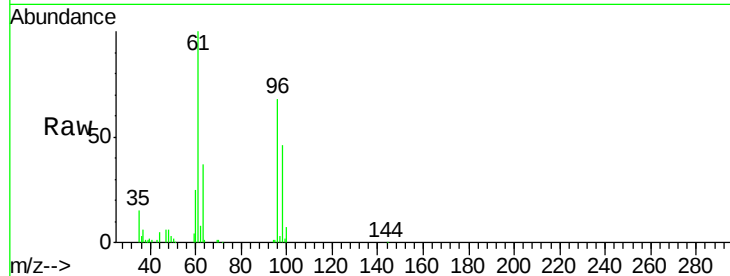
cis-1,2-Dichloroethene
Concen: 17.510 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	288.2
98	67.0	0.0	132.2

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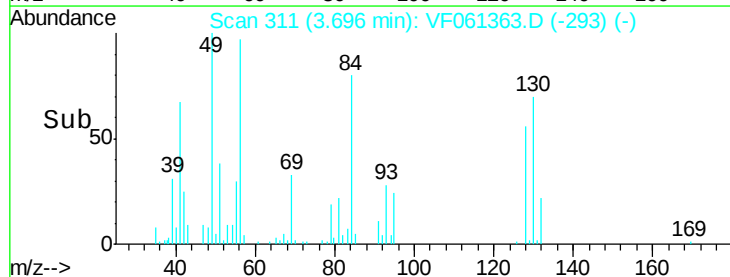
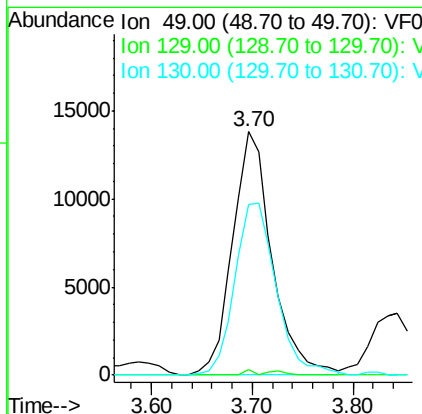
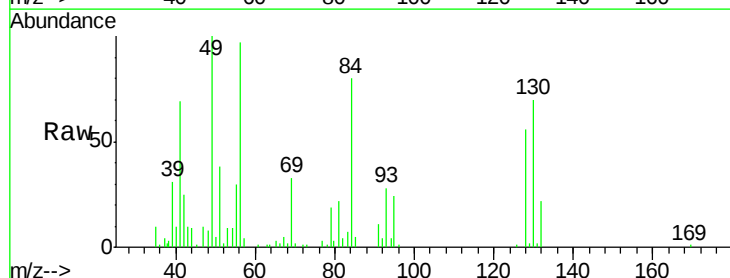
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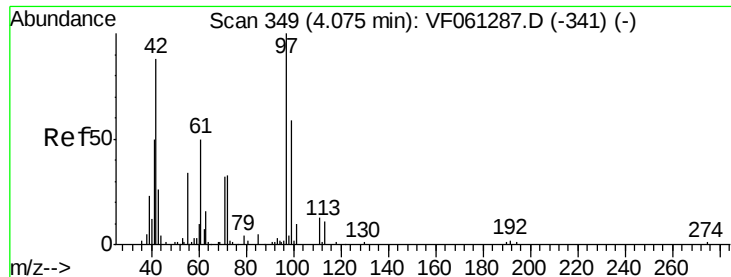


#28

Bromochloromethane
Concen: 22.406 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	0.0#
130	70.1	58.6	88.0





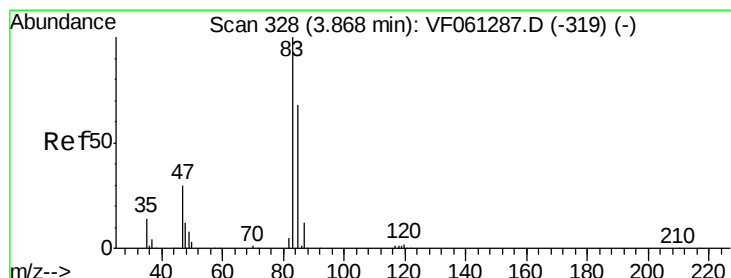
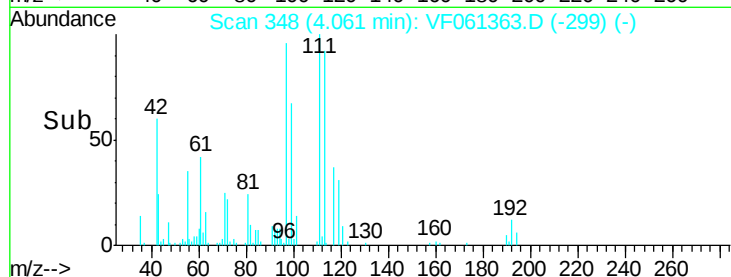
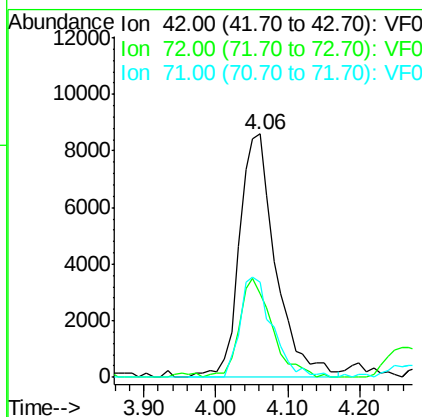
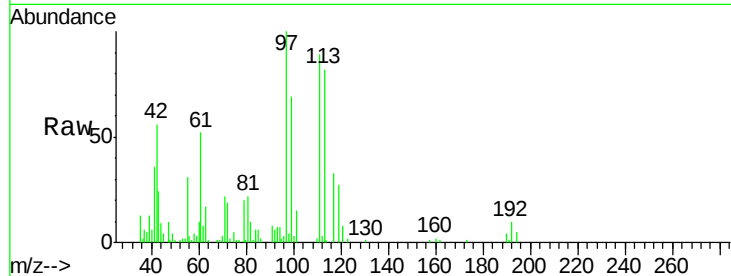
#29
Tetrahydrofuran
Concen: 97.569 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.7	32.3	48.5
71	37.0	29.5	44.3

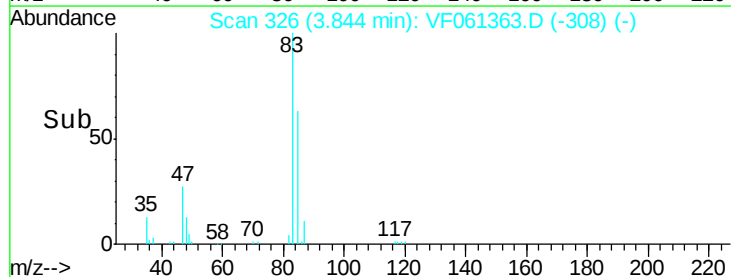
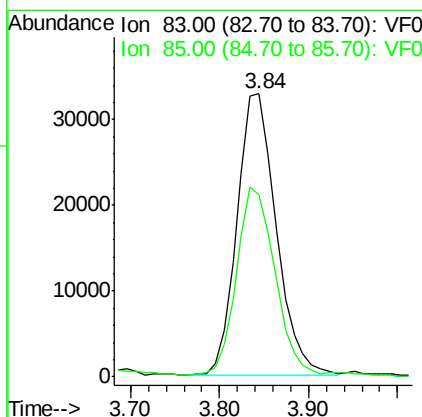
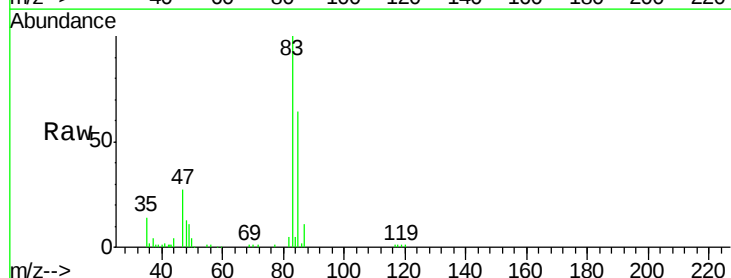
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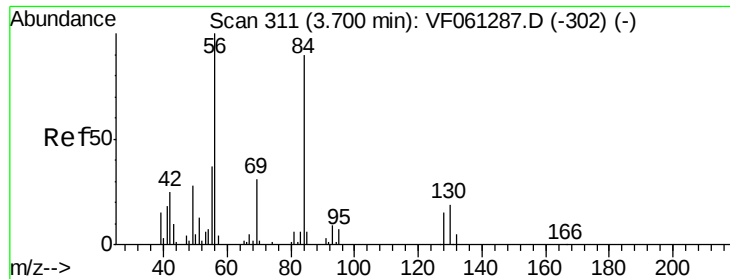
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#30
Chloroform
Concen: 20.648 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	54.4	81.6





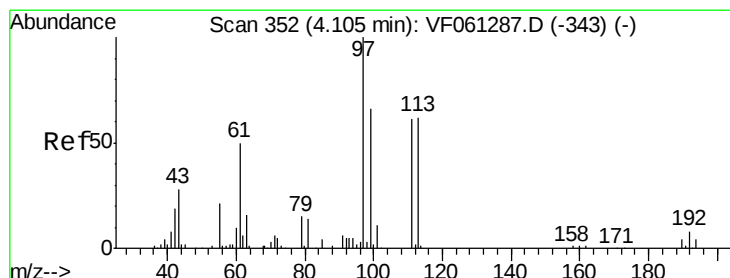
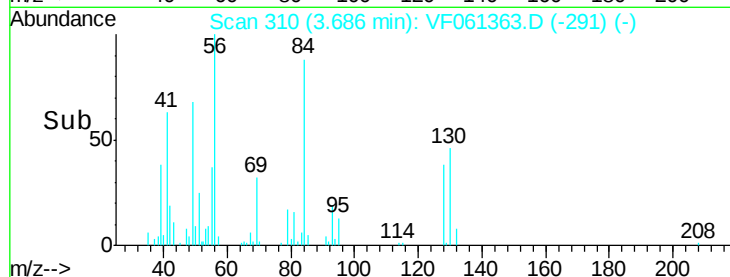
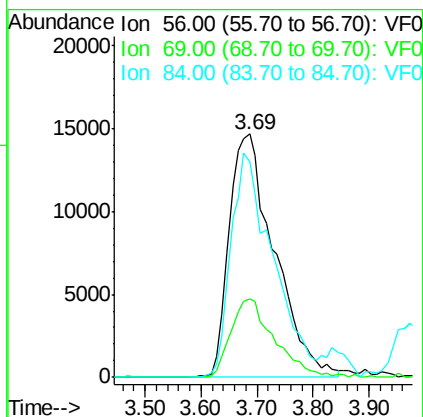
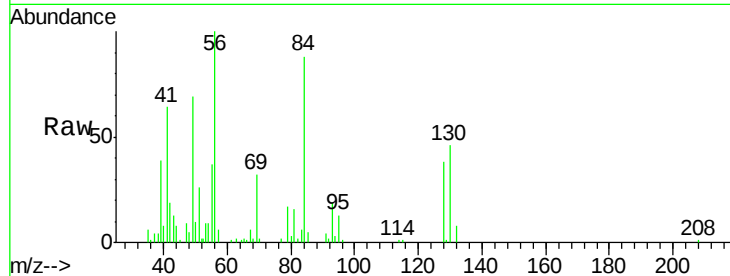
#31
Cyclohexane
Concen: 20.529 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.4	24.7	37.1
84	88.5	72.2	108.4

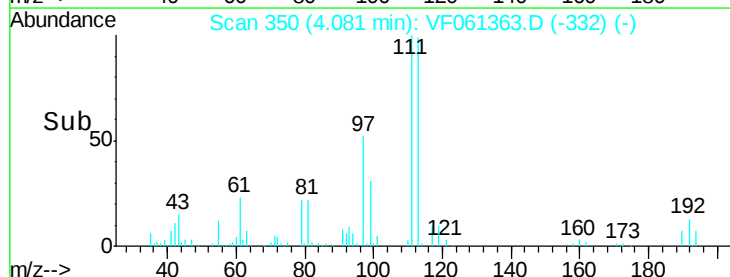
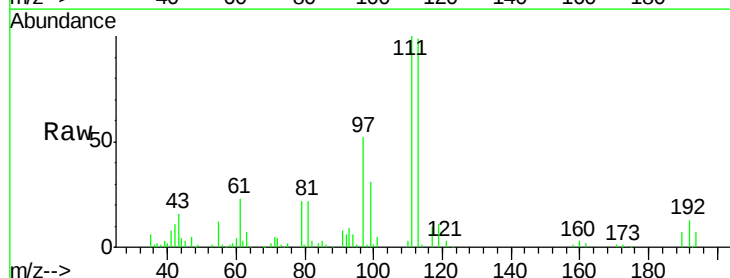
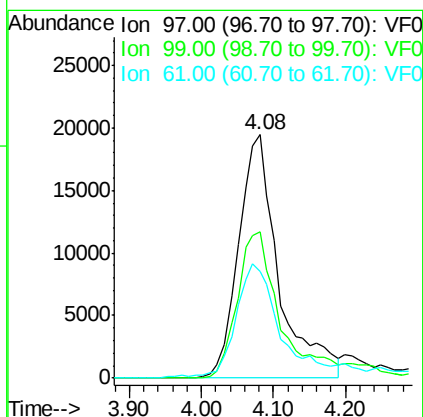
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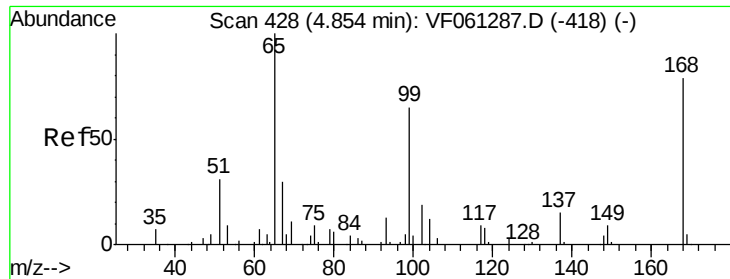
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#32
1,1,1-Trichloroethane
Concen: 19.407 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.9	52.7	79.1
61	43.7	40.8	61.2





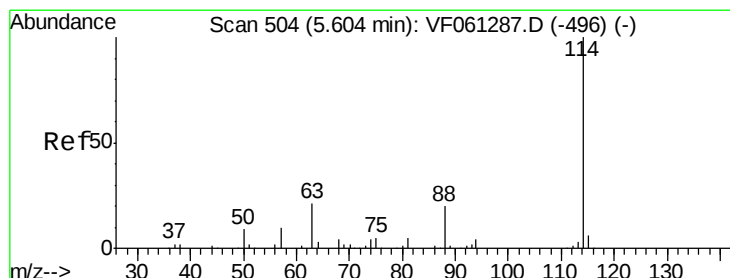
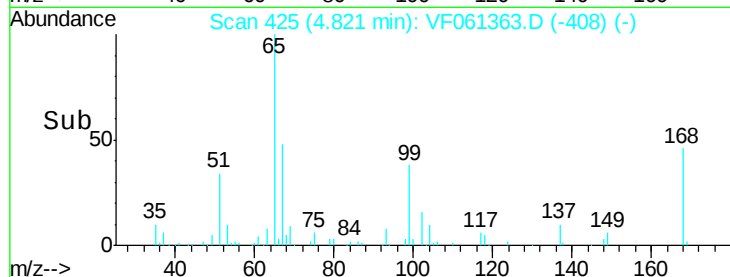
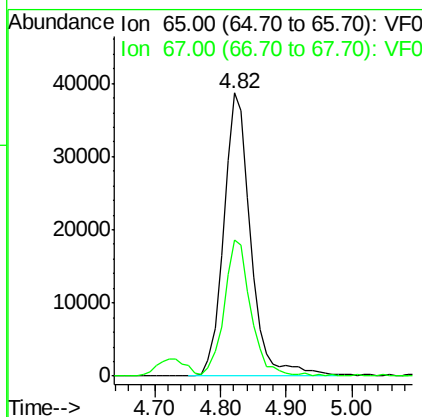
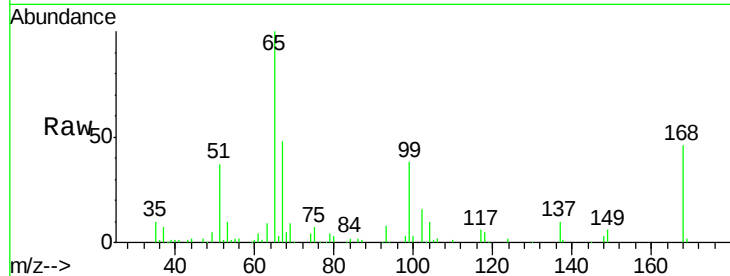
#33
 1,2-Dichloroethane-d4
 Concen: 56.097 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.03 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	110873		
67	48.3	0.0	98.2	

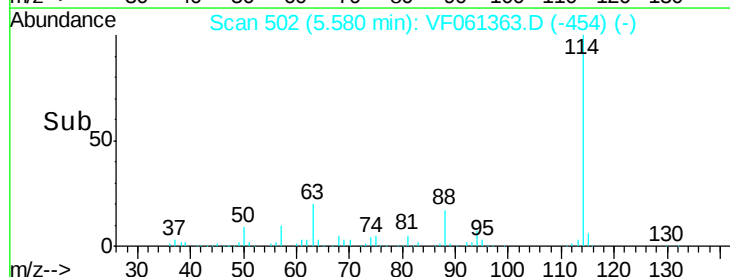
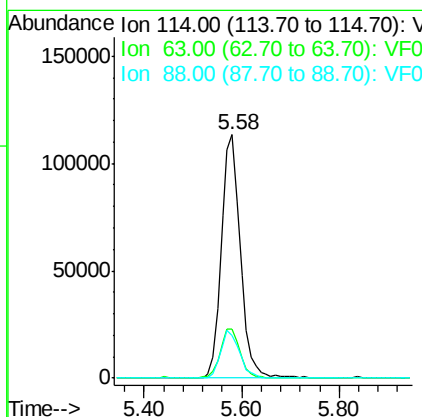
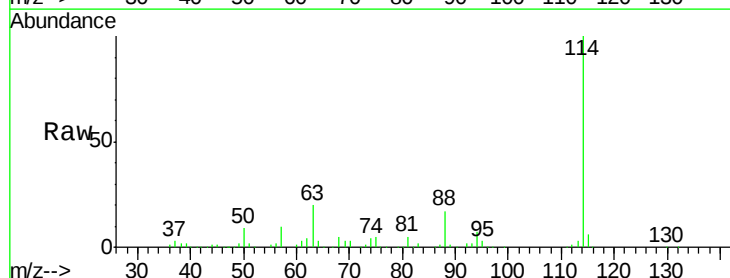
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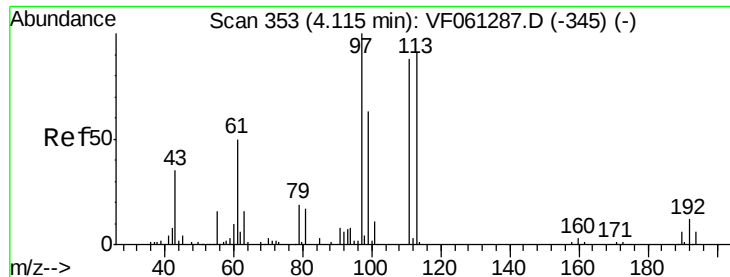
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 1/14/2019 1:16:38 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	309091		
63	20.3	0.0	42.8	
88	17.3	0.0	40.0	





#35

Dibromofluoromethane

Concen: 55.522 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

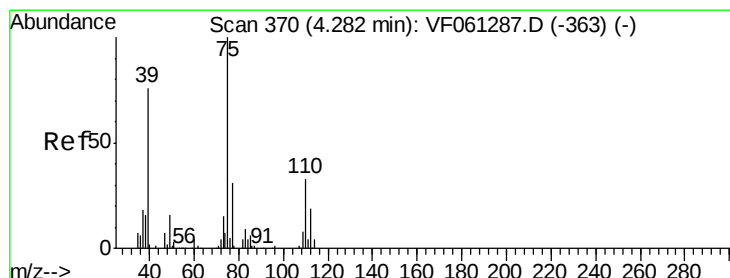
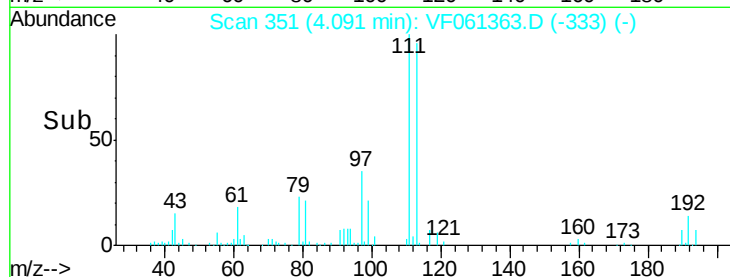
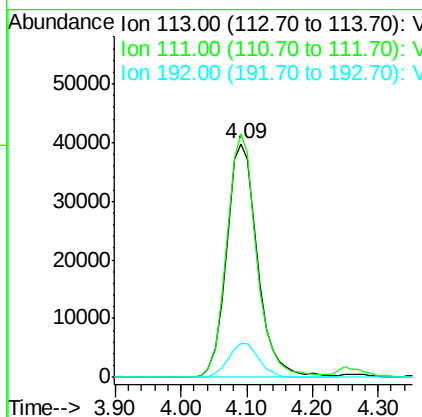
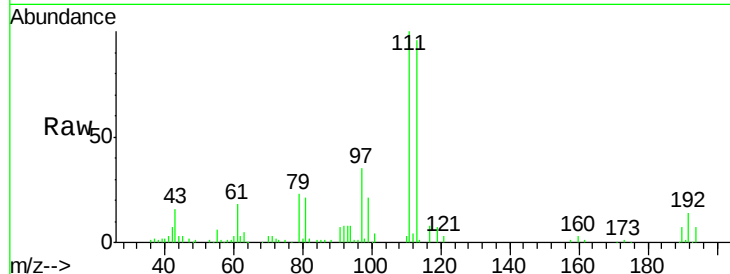
ClientSampleId :

VF0111SBS01

Tot Ion:	113	Resp:	131313
Ion Ratio	Lower	Upper	
113	100		
111	104.1	78.0	117.0
192	14.4	10.6	16.0

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#36

1,1-Dichloropropene

Concen: 19.855 ug/l

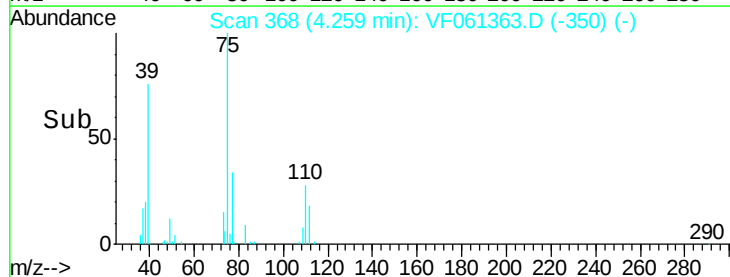
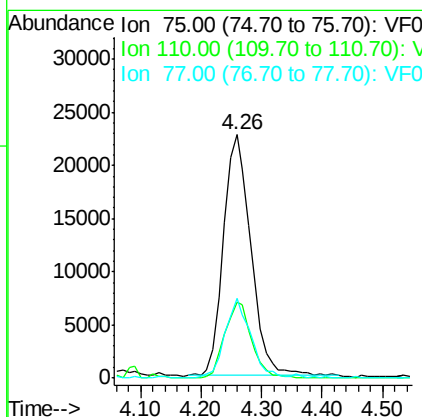
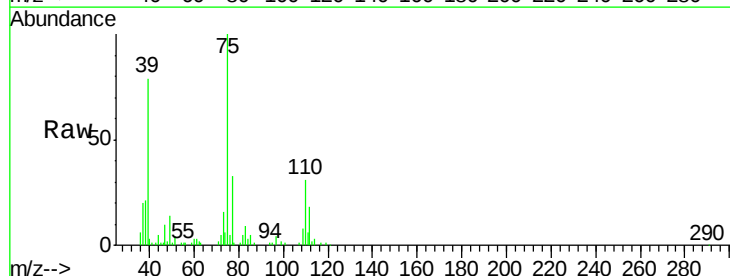
RT: 4.26 min Scan# 368

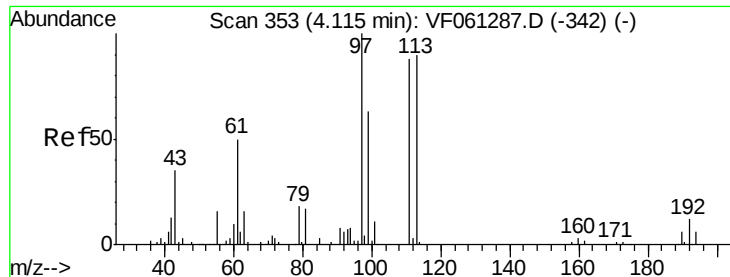
Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion:	75	Resp:	71664
Ion Ratio	Lower	Upper	
75	100		
110	31.4	16.6	49.8
77	33.0	25.1	37.7





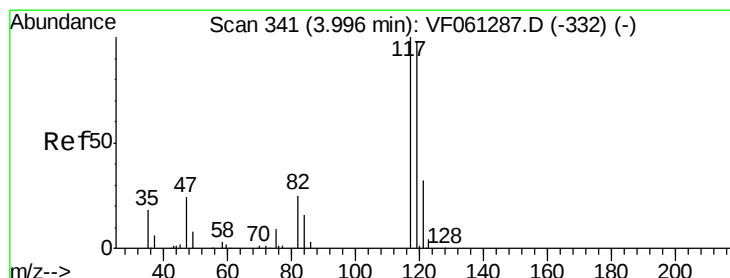
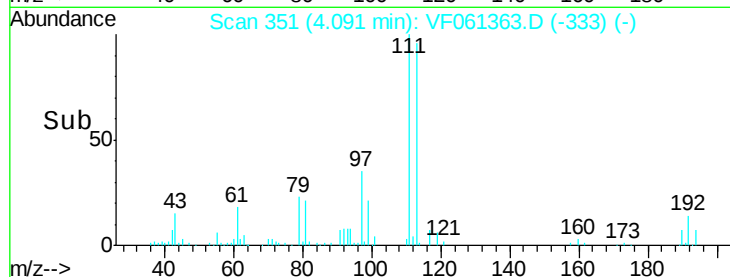
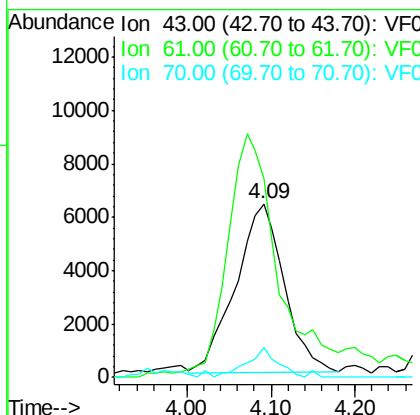
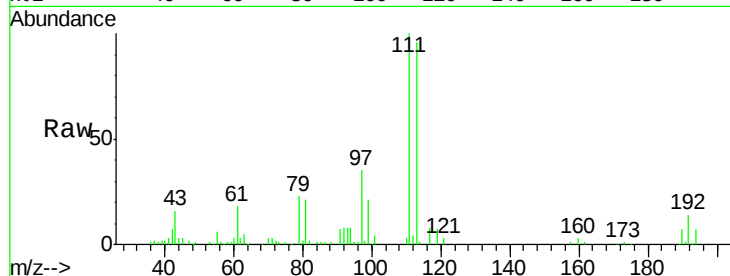
#37
Ethyl Acetate
Concen: 19.269 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion	43	61	70
Resp	25328	114.7	16.9
Ratio	100	113.3	9.4
Lower		169.9	14.0
Upper			

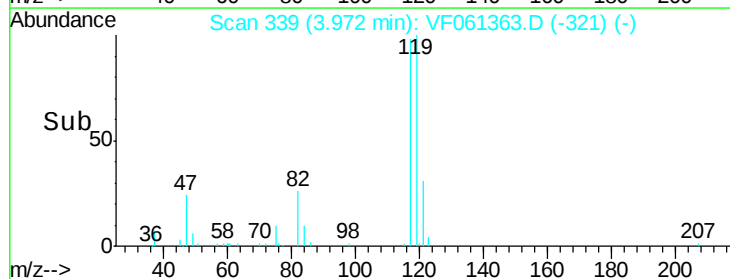
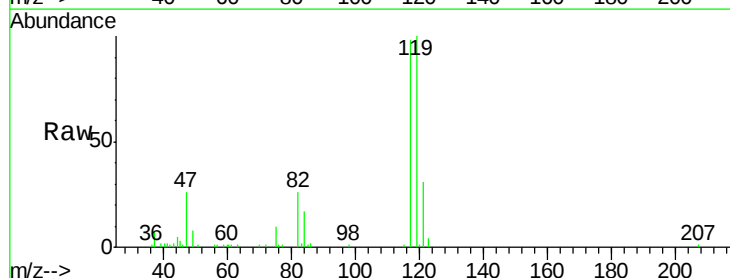
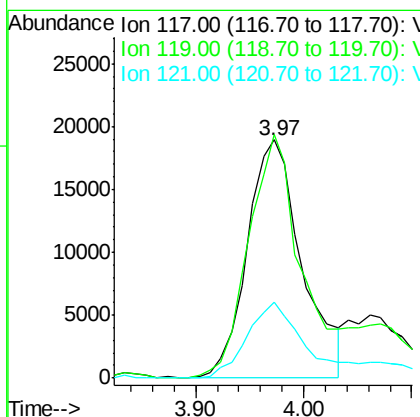
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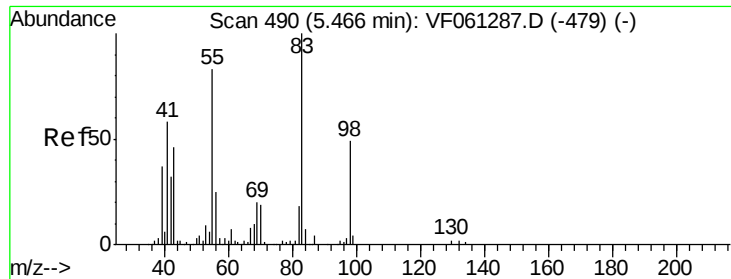
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1/14/2019 1:16:38 PM



#38
Carbon Tetrachloride
Concen: 19.606 ug/l
RT: 3.97 min Scan# 339
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	117	119	121
Resp	67024	102.2	32.0
Ratio	100	78.5	25.3
Lower		117.7	37.9
Upper			





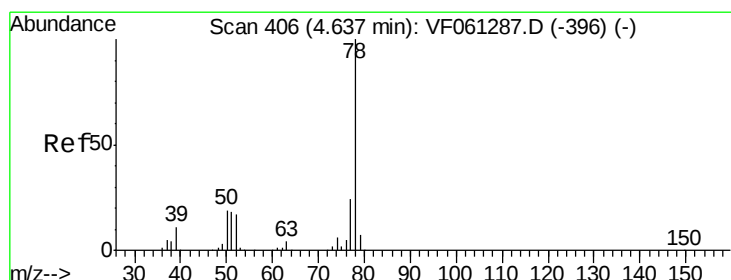
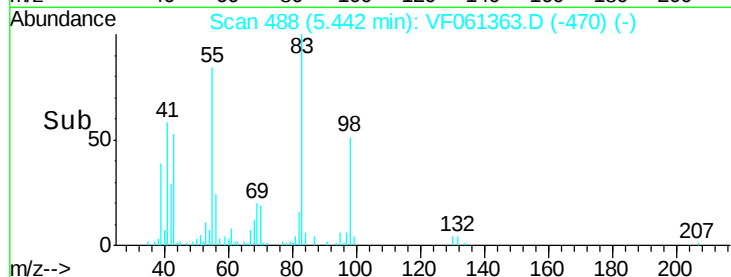
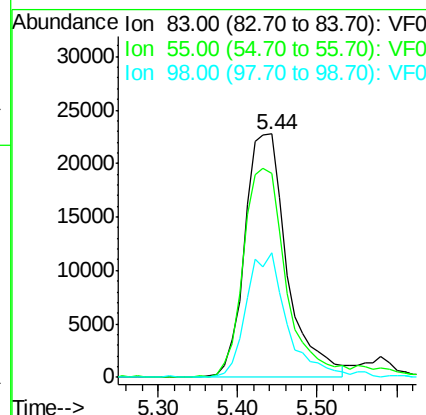
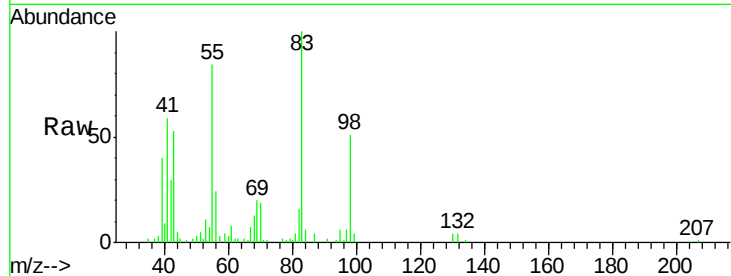
#39
Methvlcvclohexane
Concen: 18.516 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	83625		
55	83.7		66.4	99.6
98	51.3		39.1	58.7

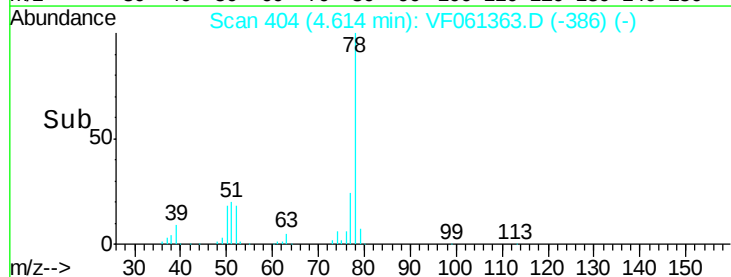
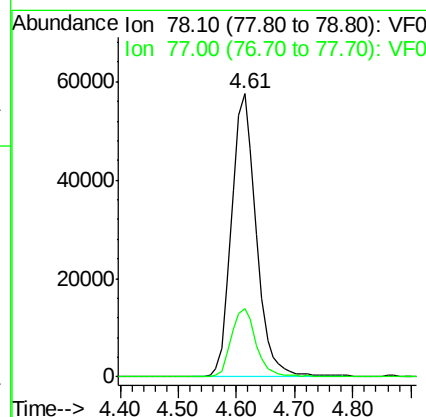
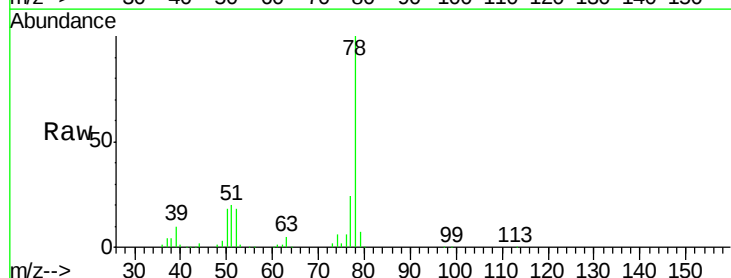
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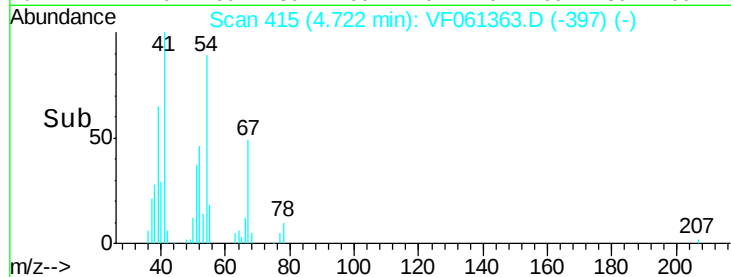
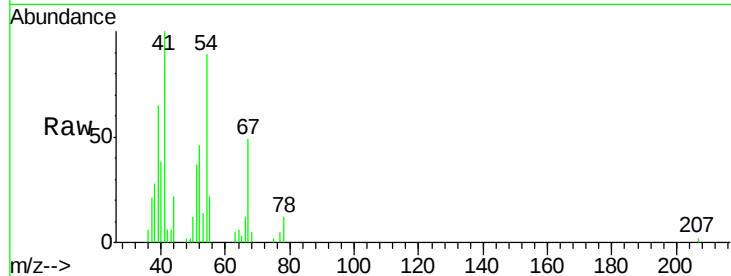
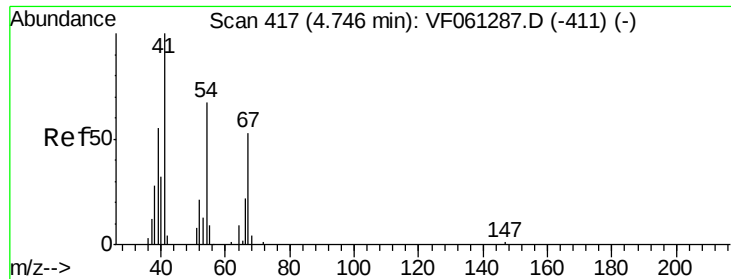
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1/14/2019 1:16:38 PM



#40
Benzene
Concen: 20.246 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	170609		
77	24.3		19.1	28.7





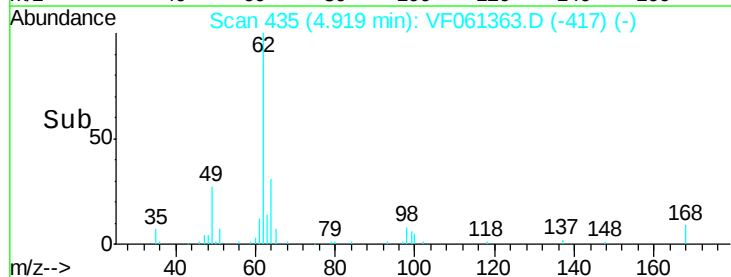
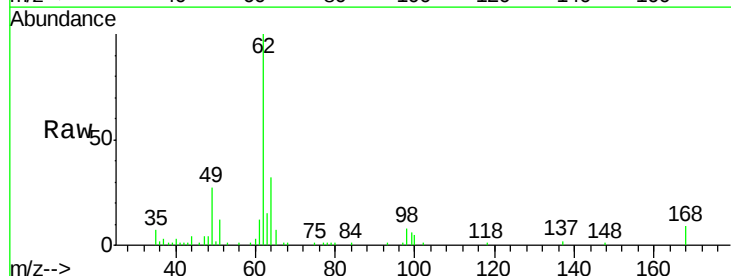
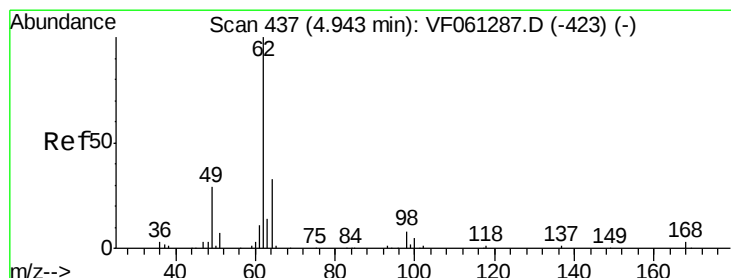
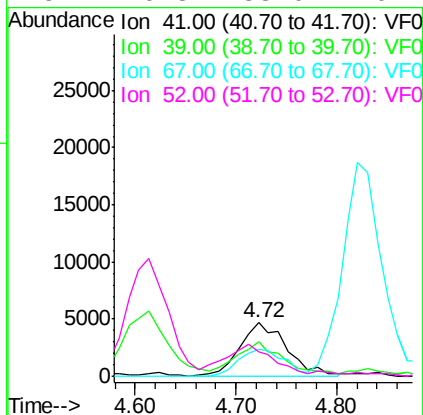
#41
Methacrylonitrile
Concen: 20.762 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	64.9	52.7	79.1		
67	49.2	41.4	62.2		
52	46.3	33.0	49.4		

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

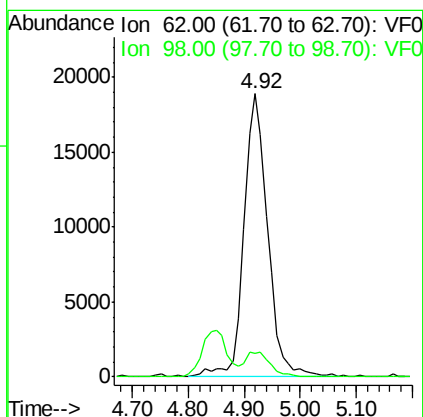
Manual Integrations
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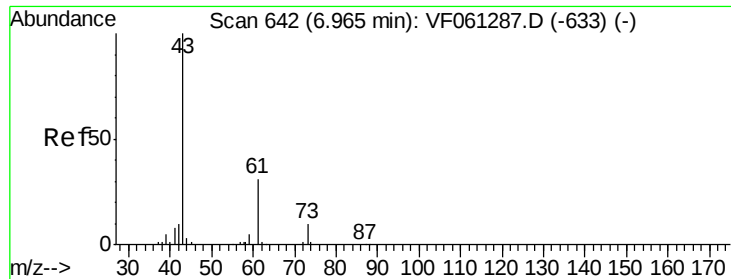
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#42
1,2-Dichloroethane
Concen: 21.249 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	8.1	0.0	16.8		





#43

Isopropyl Acetate

Concen: 19.954 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

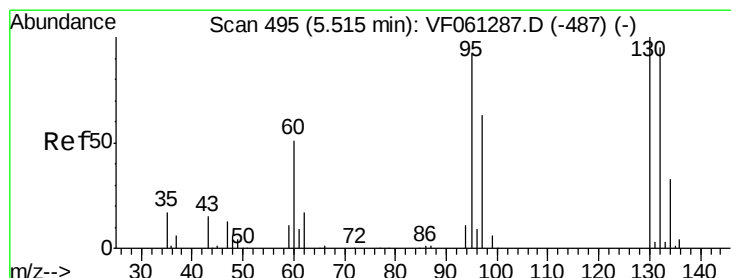
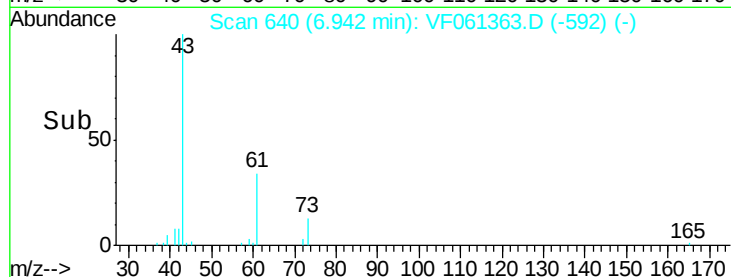
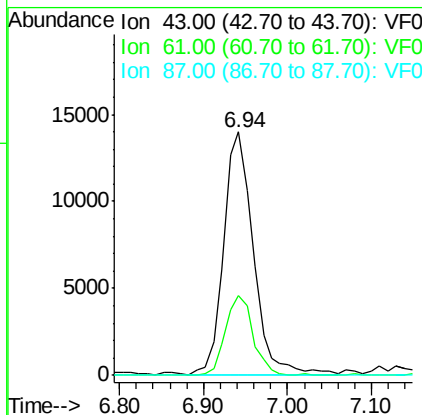
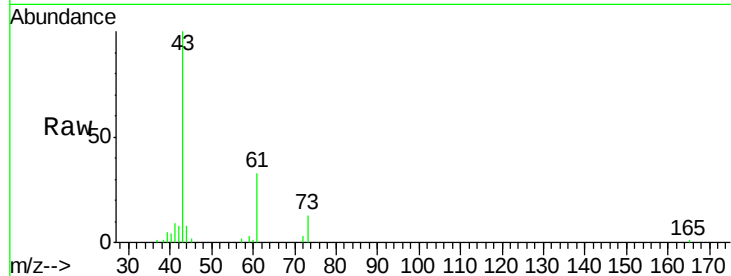
ClientSampleId :

VF0111SBS01

Tot Ion:	43	Resp:	34627
Ion Ratio	Lower	Upper	
43	100		
61	32.7	24.3	36.5
87	0.0	0.2	0.4

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1/14/2019 1:16:38 PM



#44

Trichloroethene

Concen: 21.636 ug/l

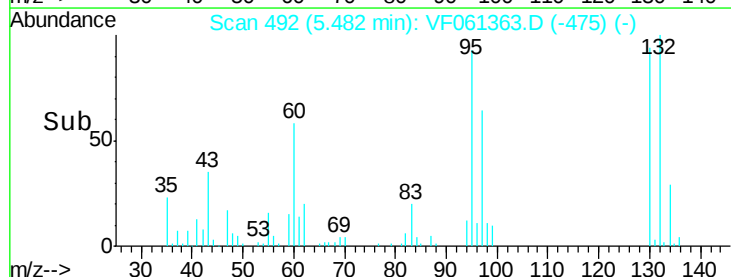
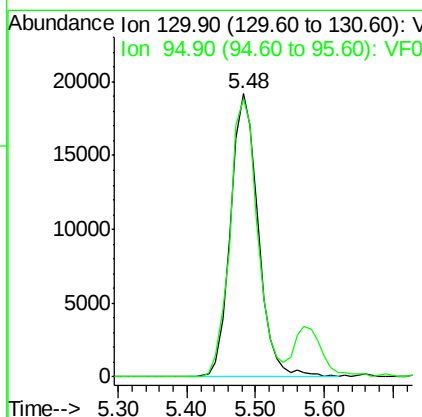
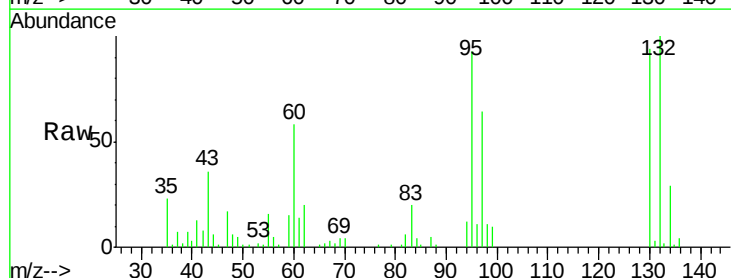
RT: 5.48 min Scan# 492

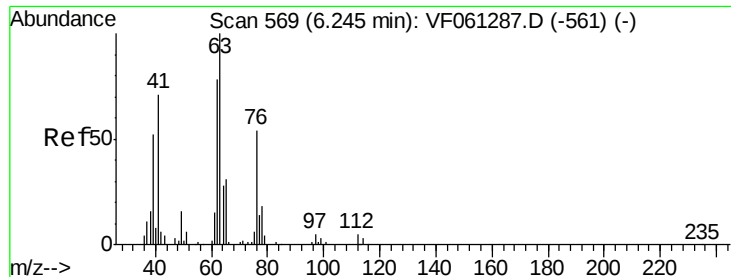
Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion:	130	Resp:	53357
Ion Ratio	Lower	Upper	
130	100		
95	98.4	0.0	184.4





#45

1,2-Dichloropropane

Concen: 19.168 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 63 Resp: 41075

Ion Ratio Lower Upper

63 100

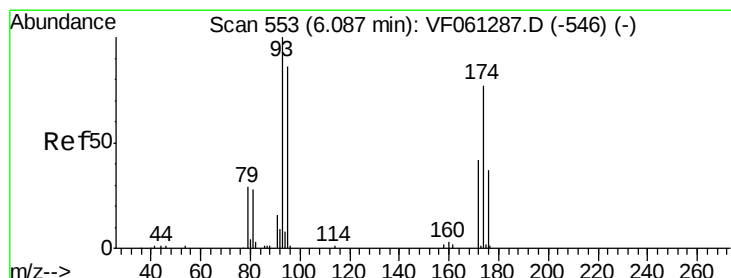
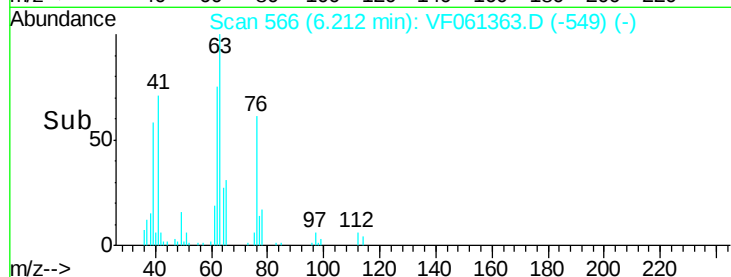
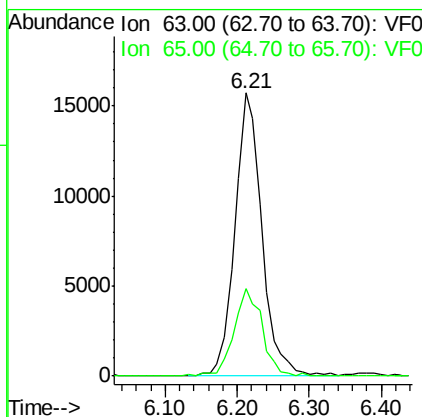
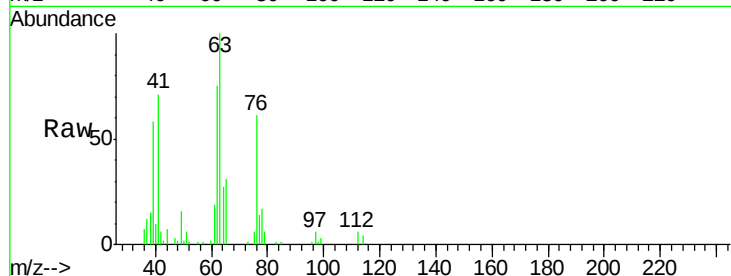
65 31.0 25.1 37.7

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1/14/2019 1:16:38 PM



#46

Dibromomethane

Concen: 19.741 ug/l

RT: 6.06 min Scan# 551

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

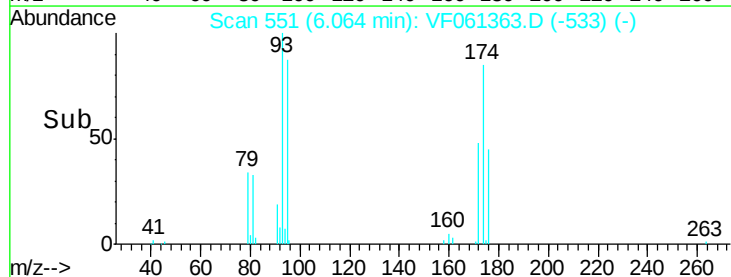
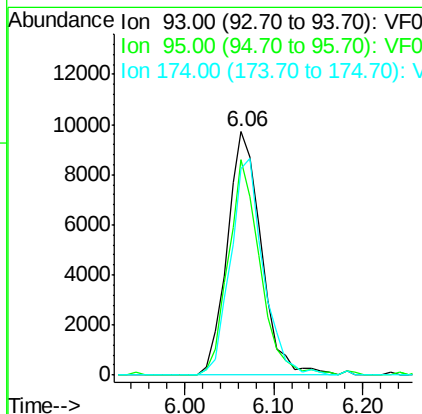
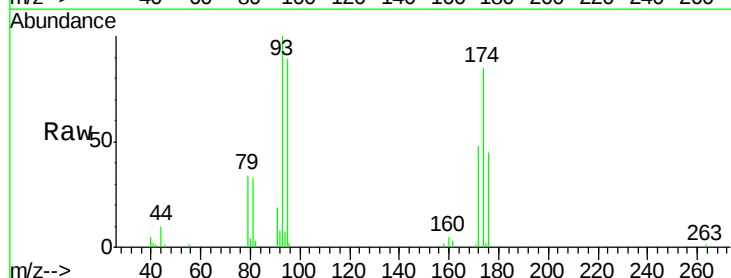
Tgt Ion: 93 Resp: 25974

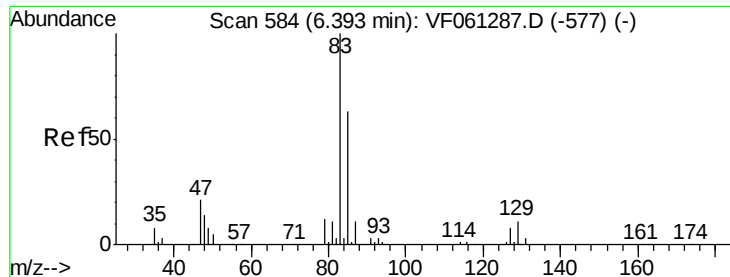
Ion Ratio Lower Upper

93 100

95 90.5 68.8 103.2

174 84.9 62.9 94.3





#47

Bromodichloromethane

Concen: 22.224 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

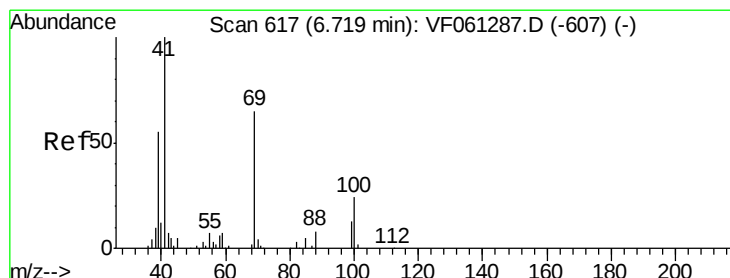
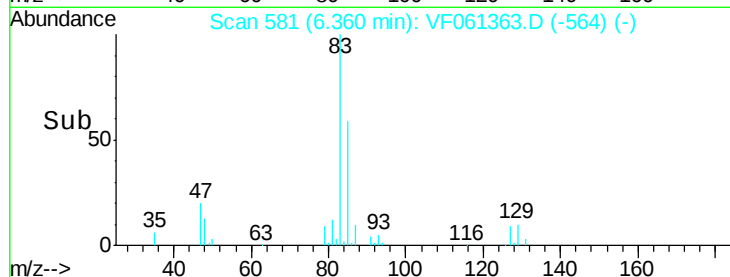
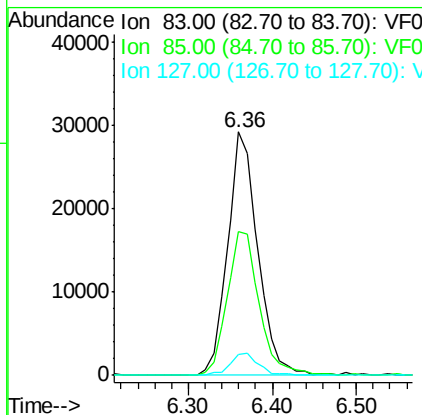
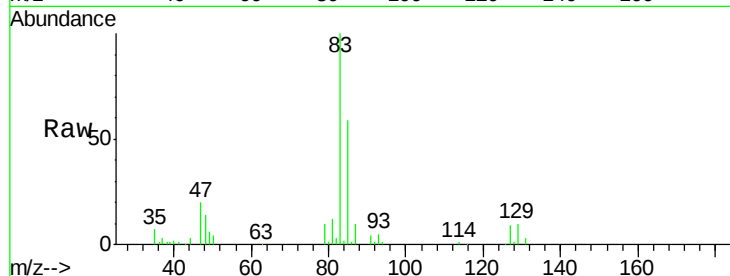
ClientSampleId :

VF0111SBS01

Tot Ion:	83	Resp:	72722
Ion	Ratio	Lower	Upper
83	100		
85	58.9	50.4	75.6
127	8.8	6.4	9.6

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1/14/2019 1:16:38 PM



#48

Methyl methacrylate

Concen: 18.441 ug/l

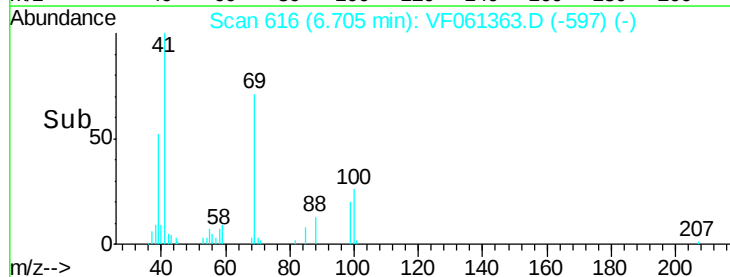
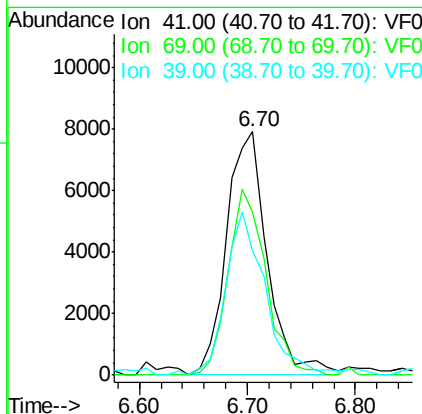
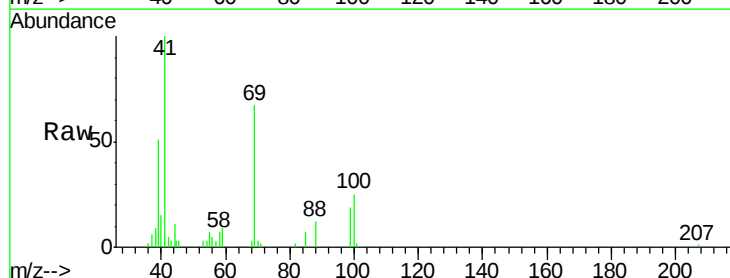
RT: 6.70 min Scan# 616

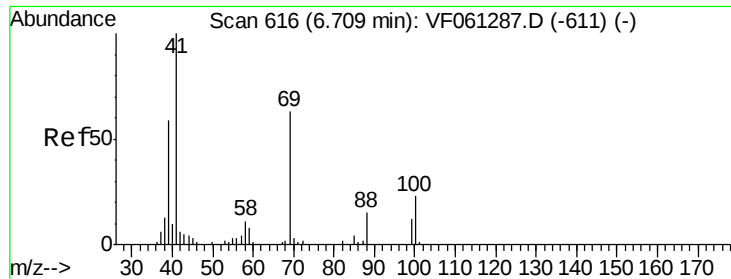
Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion:	41	Resp:	20772
Ion	Ratio	Lower	Upper
41	100		
69	66.7	51.5	77.3
39	51.0	44.1	66.1





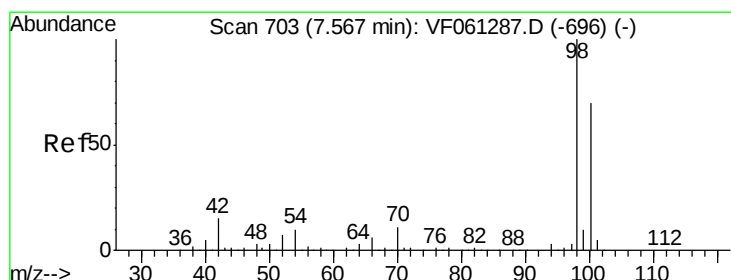
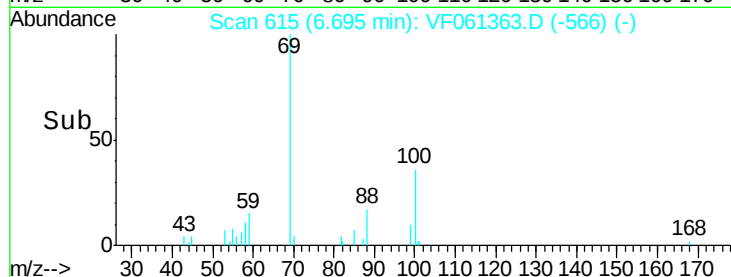
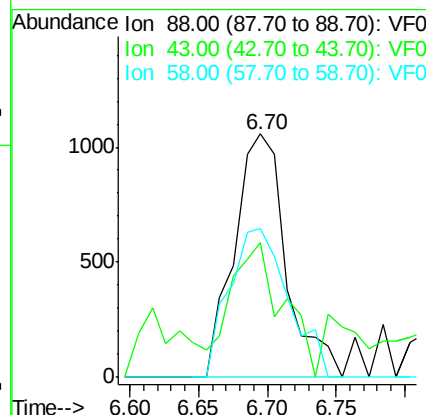
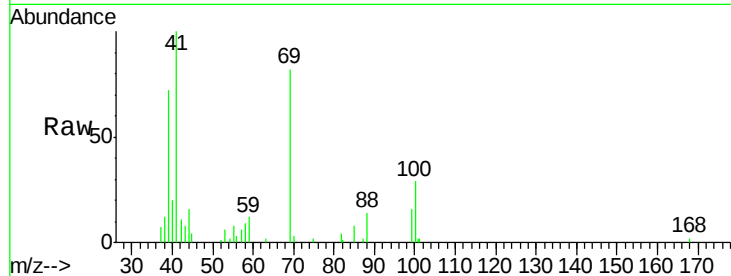
#49
1,4-Dioxane
Concen: 390.999 ug/l
RT: 6.70 min Scan# 615
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	55.3	38.5	57.7
58	61.2	57.0	85.4

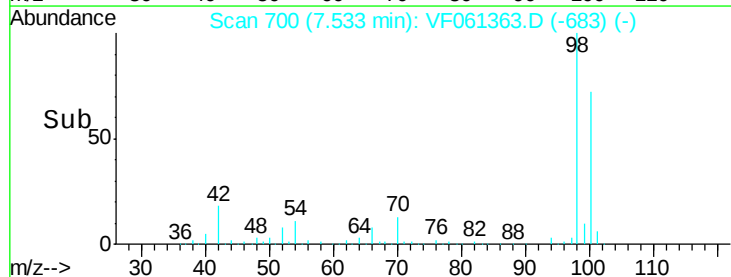
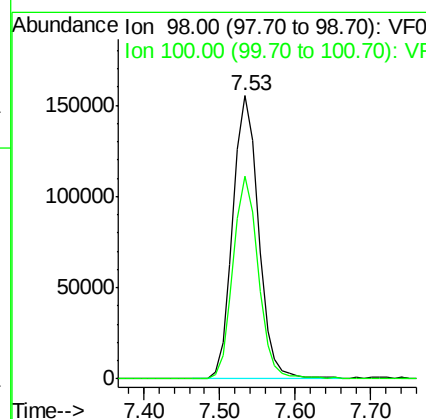
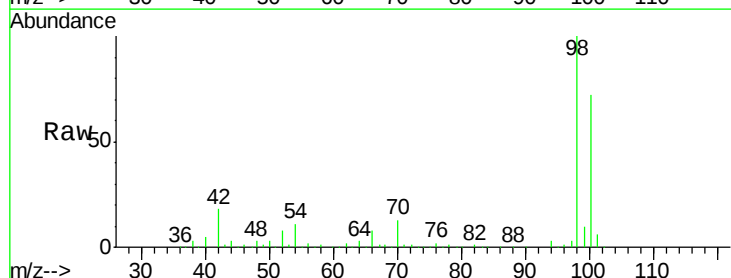
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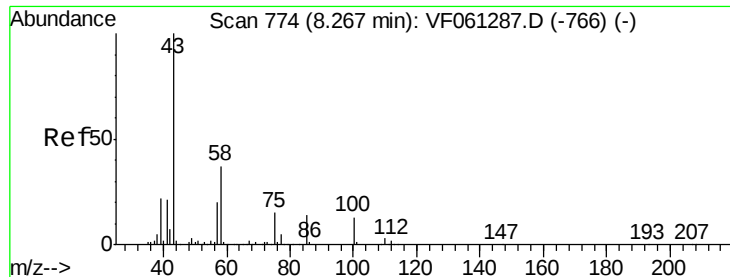
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1/14/2019 1:16:38 PM



#50
Toluene-d8
Concen: 52.346 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.8	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 97.637 ug/l

RT: 8.23 min Scan# 771

Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 43 Resp: 127888

Ion Ratio Lower Upper

43 100

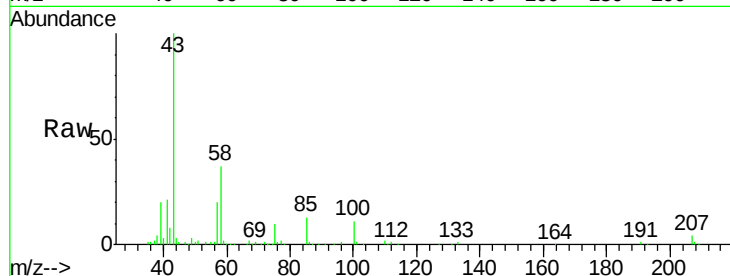
58 36.7 29.6 44.4

Manual Integrations

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1/14/2019 1:16:38 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

60000

50000

40000

30000

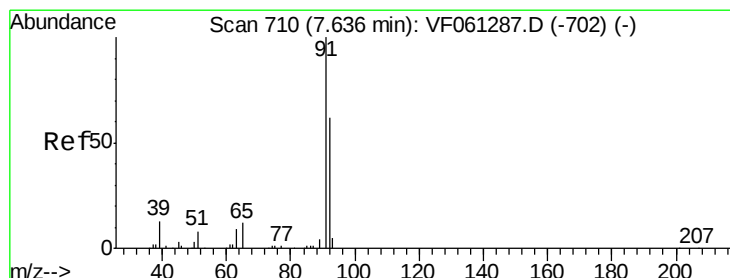
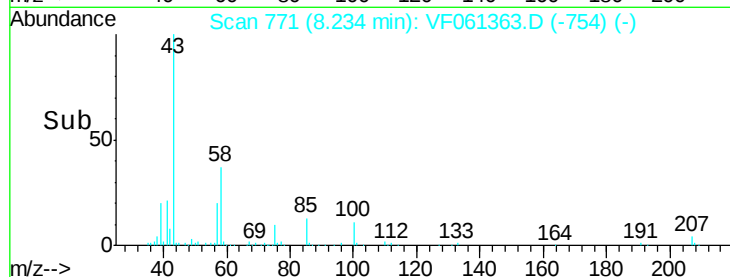
20000

10000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 20.241 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061363.D

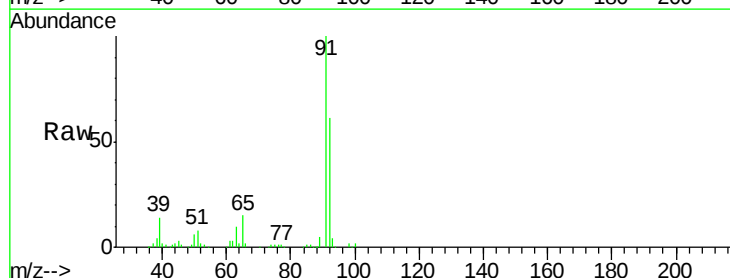
Acq: 11 Jan 2019 12:50

Tgt Ion: 92 Resp: 109632

Ion Ratio Lower Upper

92 100

91 164.3 129.2 193.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

80000

60000

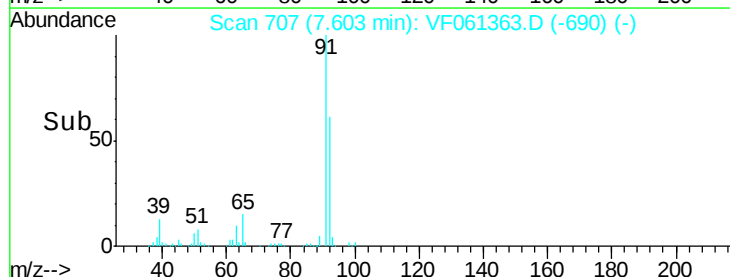
40000

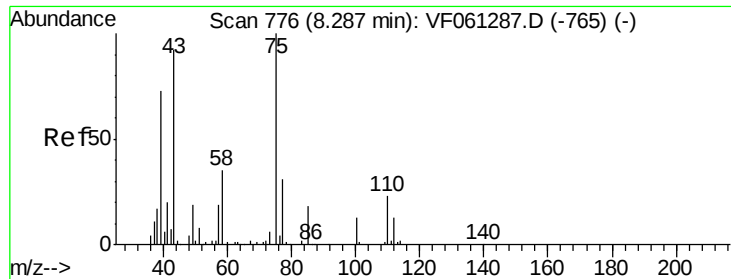
20000

0

7.50 7.60 7.70 7.80

Time-->





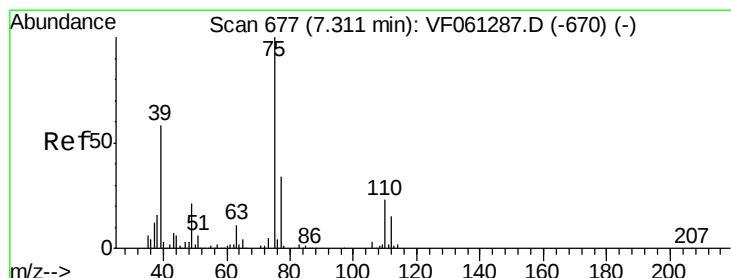
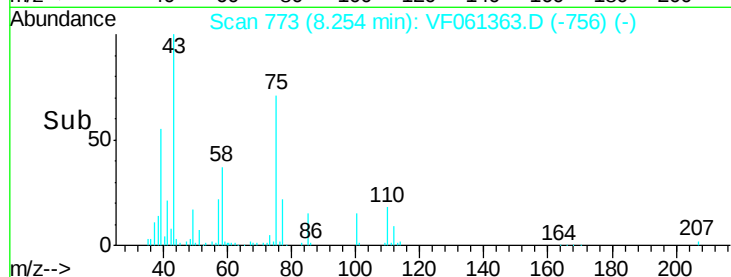
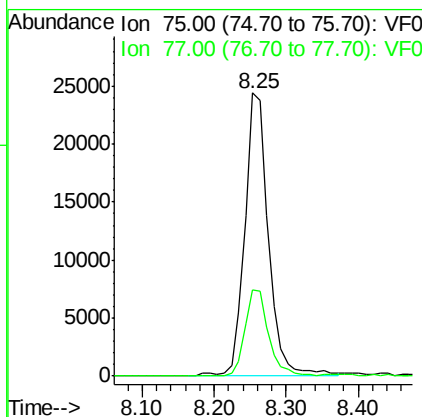
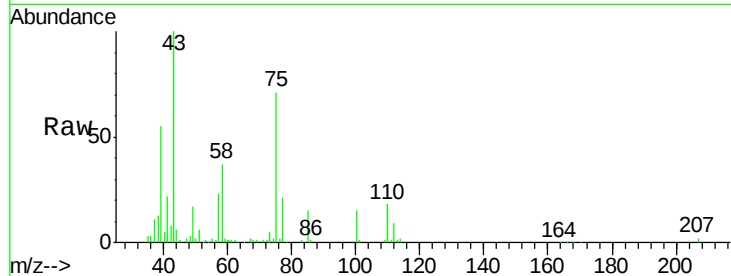
#53
 t-1,3-Dichloropropene
 Concen: 21.939 ug/l
 RT: 8.25 min Scan# 773
 Delta R.T. -0.03 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.3	24.7	37.1

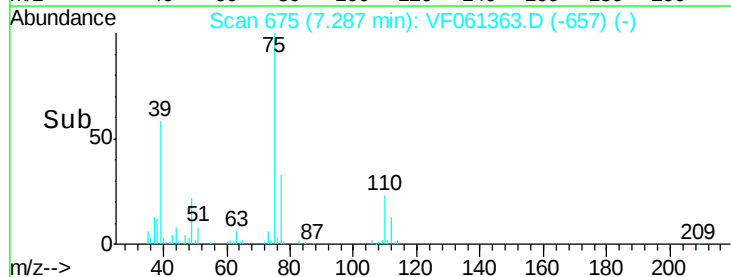
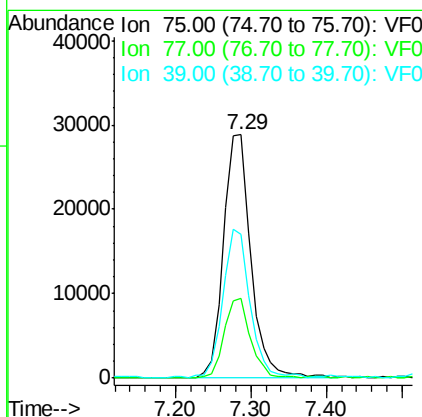
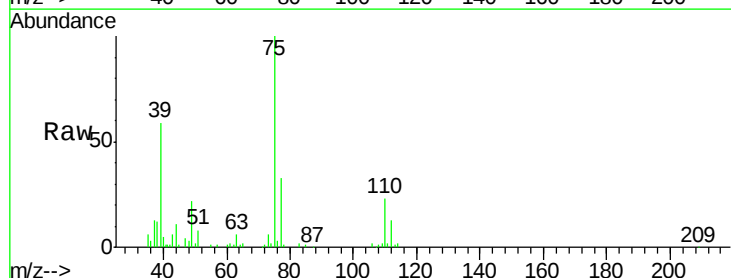
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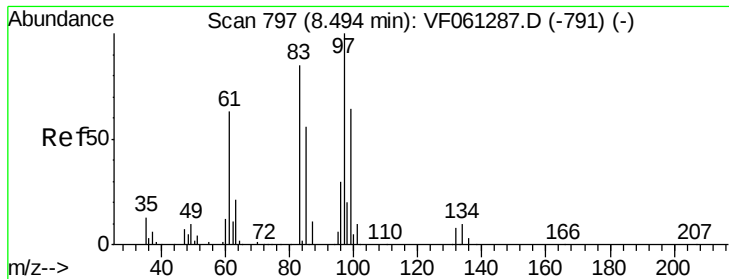
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#54
 cis-1,3-Dichloropropene
 Concen: 21.369 ug/l
 RT: 7.29 min Scan# 675
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.5	27.3	40.9
39	59.3	46.3	69.5





#55

1,1,2-Trichloroethane

Concen: 20.285 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

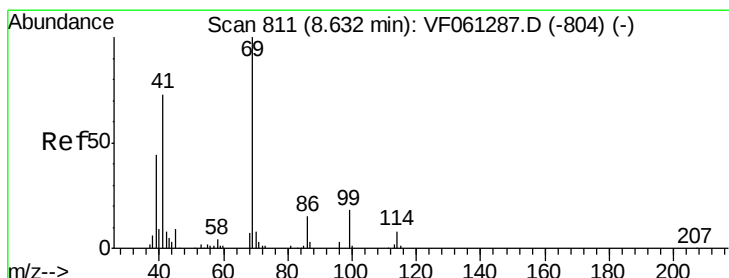
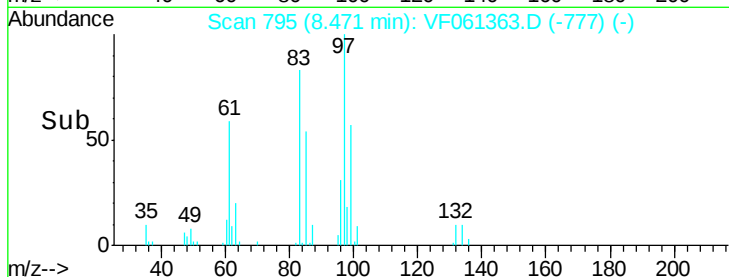
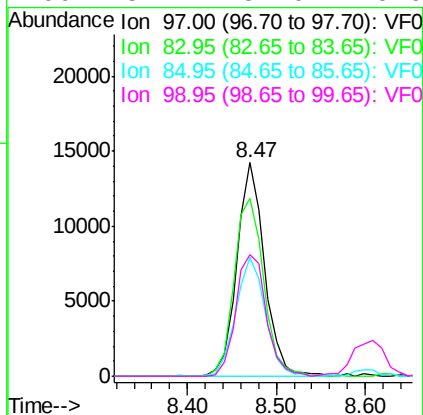
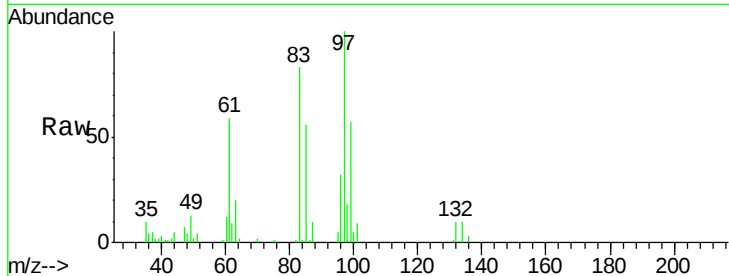
ClientSampleId :

VF0111SBS01

Tot Ion:	97	Resp:	30745
Ion	Ratio	Lower	Upper
97	100		
83	83.2	67.8	101.6
85	55.7	45.1	67.7
99	57.2	51.0	76.6

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1/14/2019 1:16:38 PM



#56

Ethyl methacrylate

Concen: 19.352 ug/l

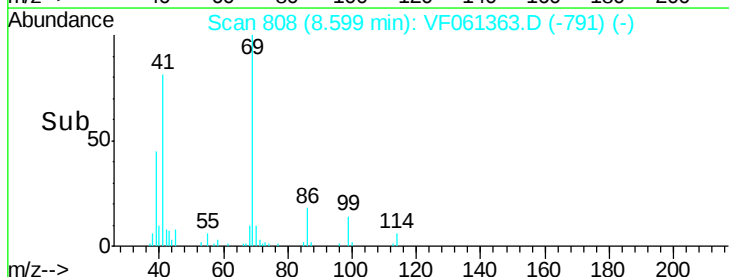
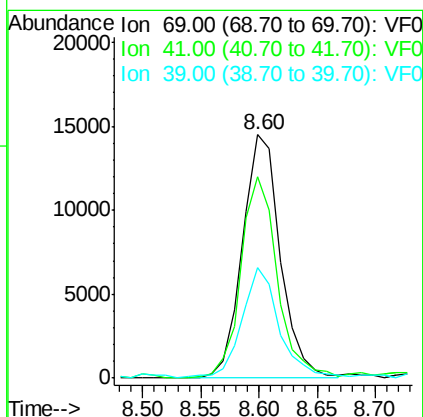
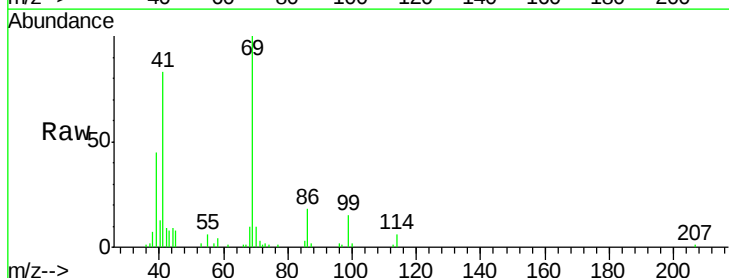
RT: 8.60 min Scan# 808

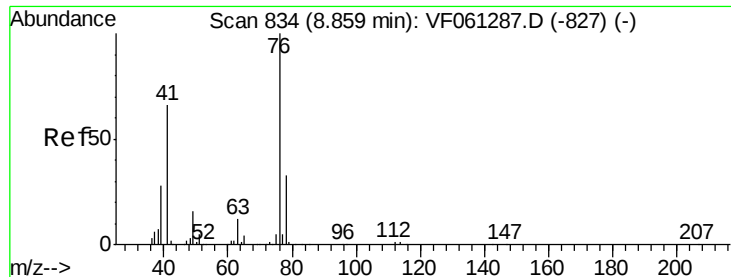
Delta R.T. -0.03 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion:	69	Resp:	32781
Ion	Ratio	Lower	Upper
69	100		
41	82.7	59.0	88.4
39	45.5	35.3	52.9





#57

1,3-Dichloropropane

Concen: 21.529 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 76 Resp: 57749

Ion Ratio Lower Upper

76 100

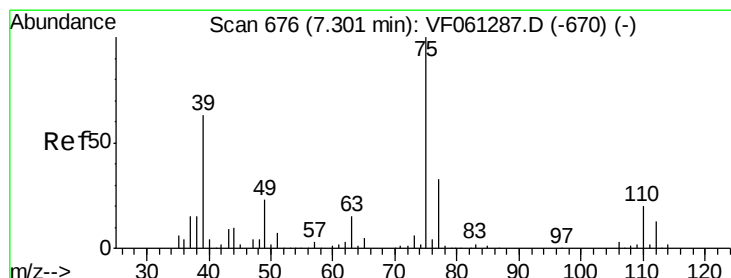
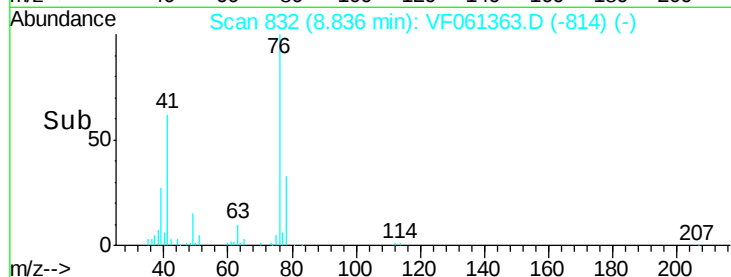
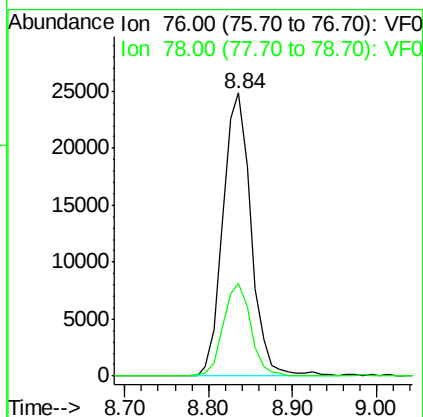
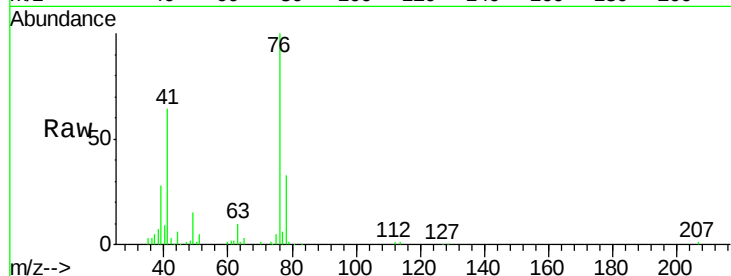
78 32.7 26.8 40.2

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1/14/2019 1:16:38 PM



#58

2-Chloroethyl Vinyl ether

Concen: 84.530 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.02 min

Lab File: VF061363.D

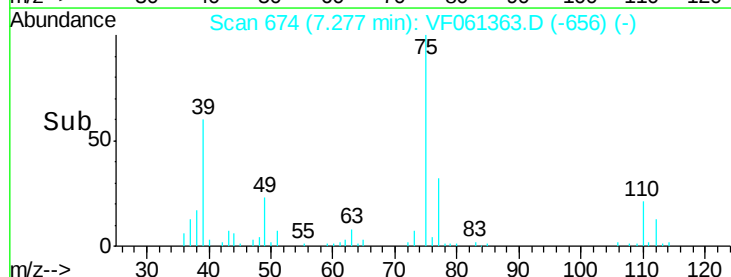
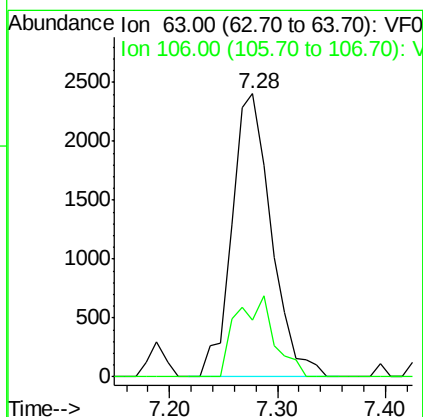
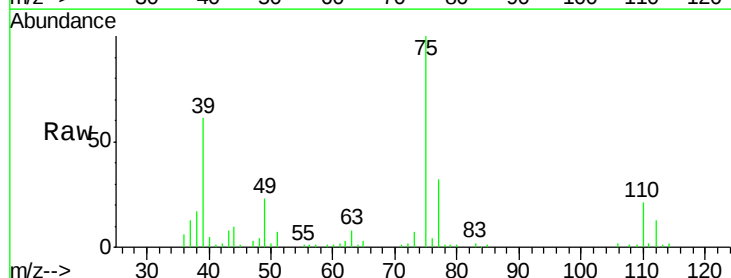
Acq: 11 Jan 2019 12:50

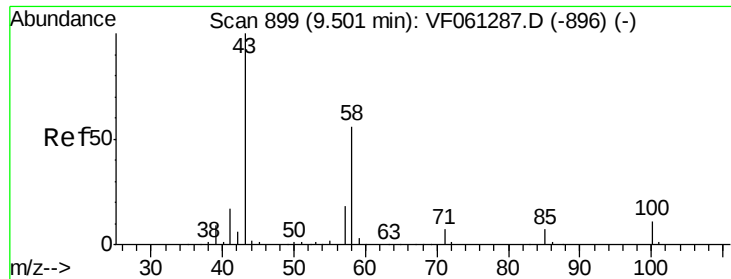
Tgt Ion: 63 Resp: 6102

Ion Ratio Lower Upper

63 100

106 20.1 16.5 24.7





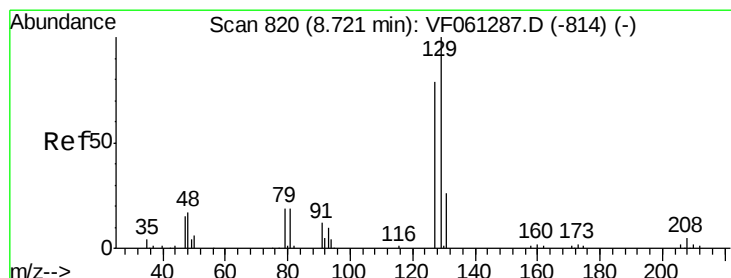
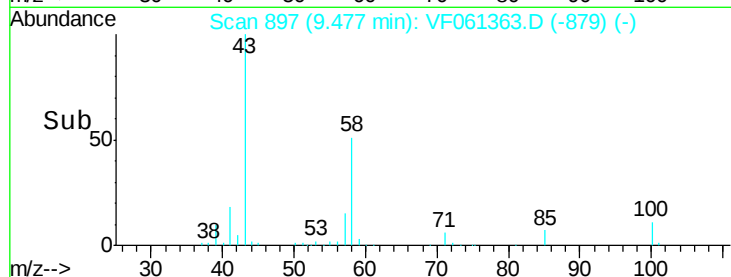
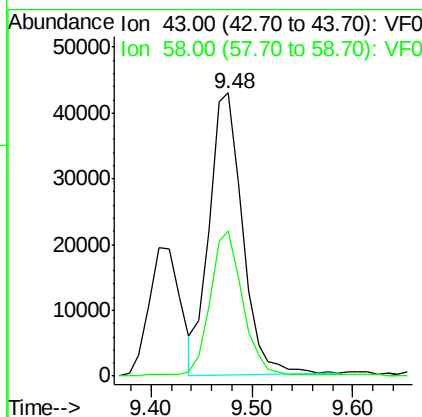
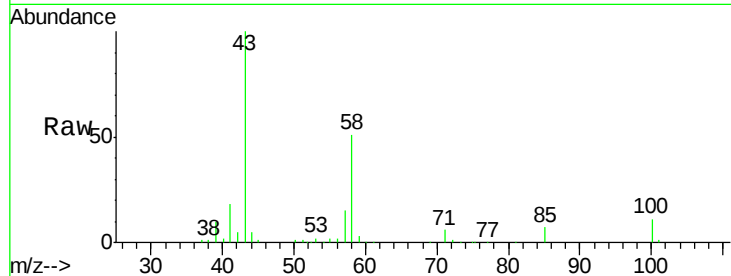
#59
2-Hexanone
Concen: 106.024 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion: 43 Resp: 98385
Ion Ratio Lower Upper
43 100
58 51.5 25.6 76.8

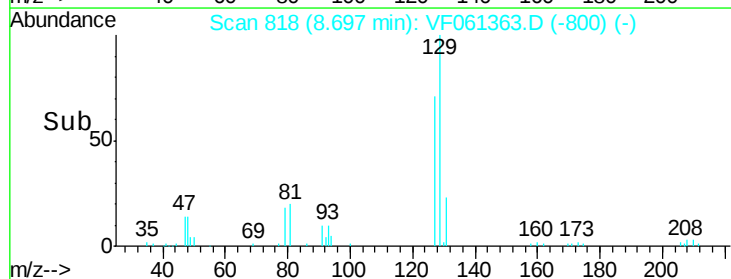
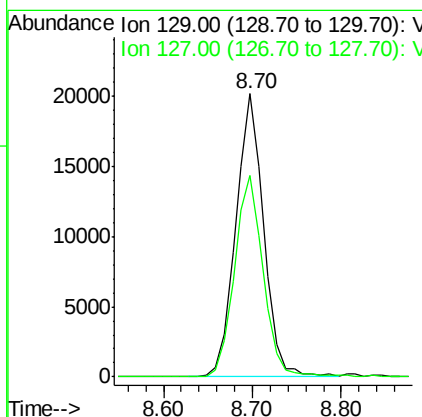
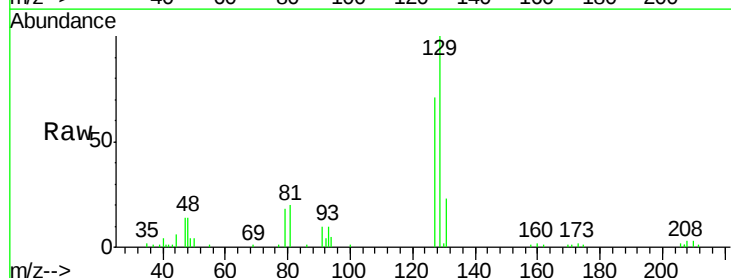
Manual Integrations
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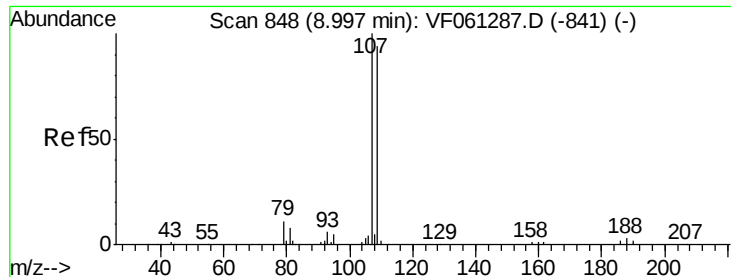
MMDadoda
1/14/2019 1:16:38 PM



#60
Dibromochloromethane
Concen: 21.763 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion: 129 Resp: 43922
Ion Ratio Lower Upper
129 100
127 71.2 39.4 118.1





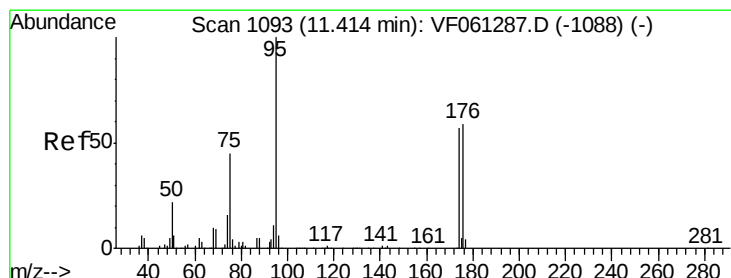
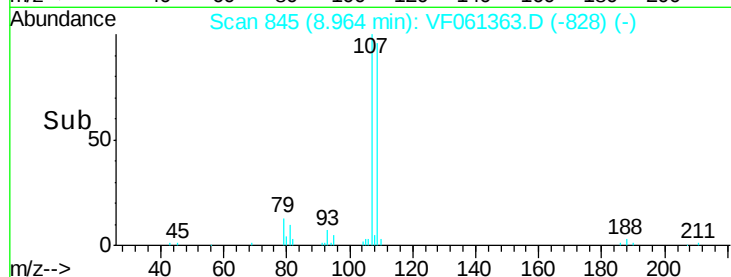
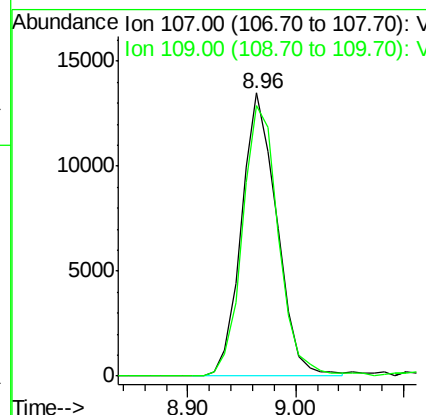
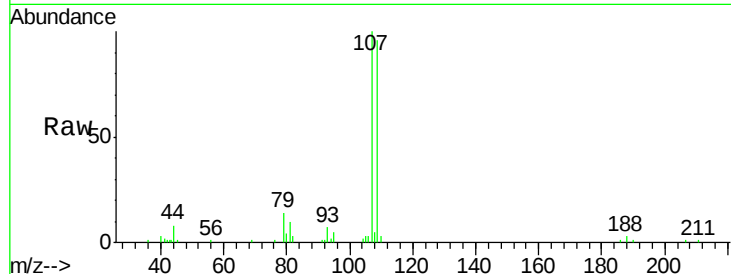
#61
 1,2-Dibromoethane
 Concen: 19.916 ug/l
 RT: 8.96 min Scan# 845
 Delta R.T. -0.03 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

Tot Ion:107 Resp: 30770
 Ion Ratio Lower Upper
 107 100
 109 95.8 75.1 112.7

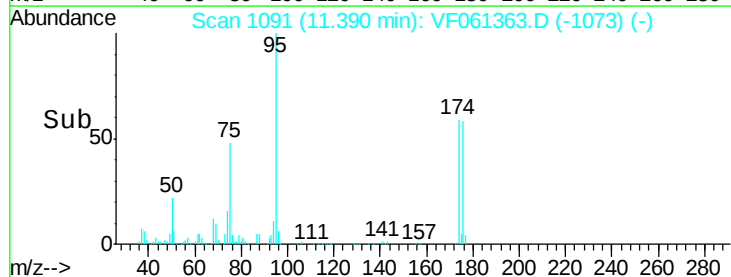
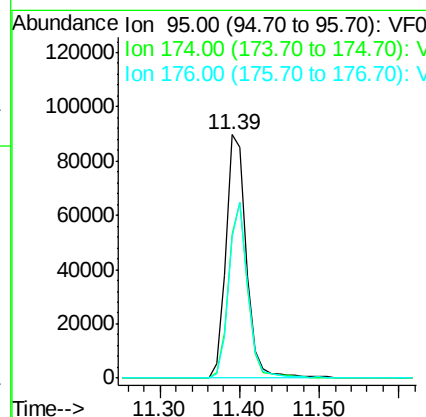
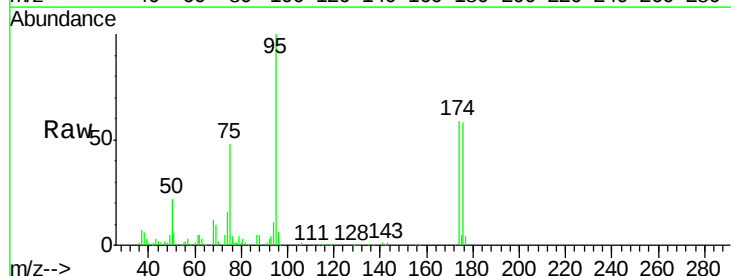
Manual Integrations
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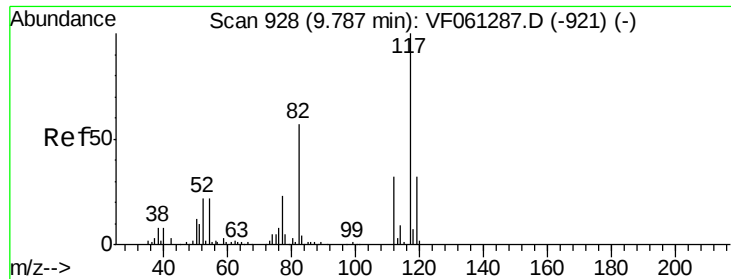
MMDadoda
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#62
 4-Bromofluorobenzene
 Concen: 53.775 ug/l
 RT: 11.39 min Scan# 1091
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Tgt Ion: 95 Resp: 164340
 Ion Ratio Lower Upper
 95 100
 174 59.1 0.0 114.2
 176 57.9 0.0 117.8





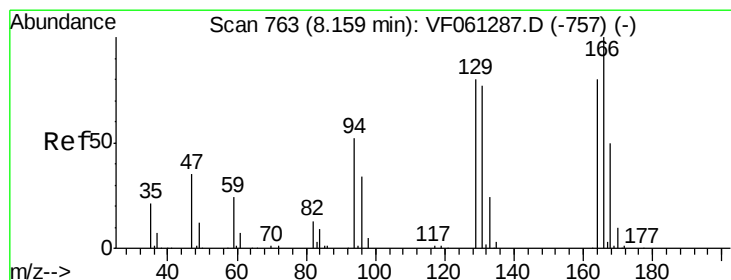
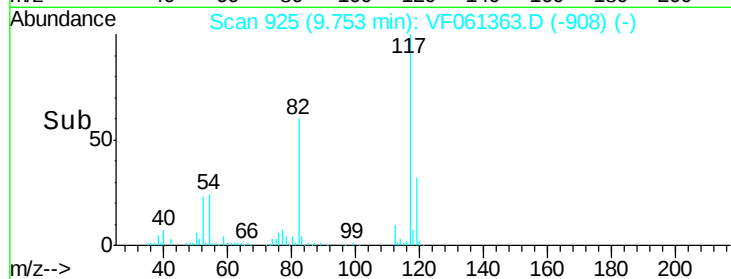
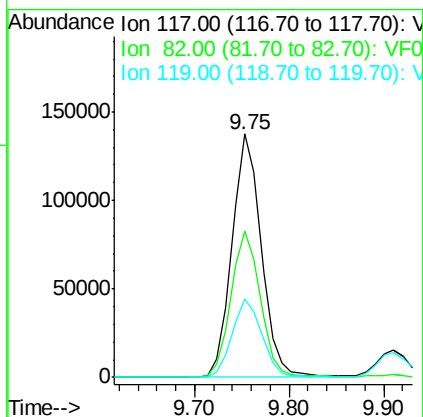
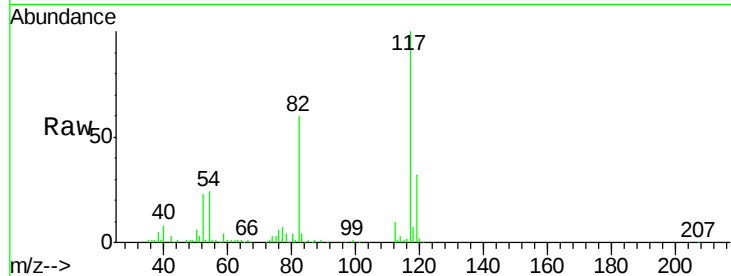
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.03 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	297226		
82	60.2	45.3	67.9	
119	32.4	25.4	38.0	

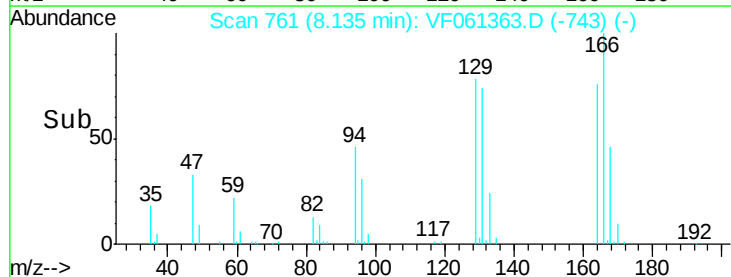
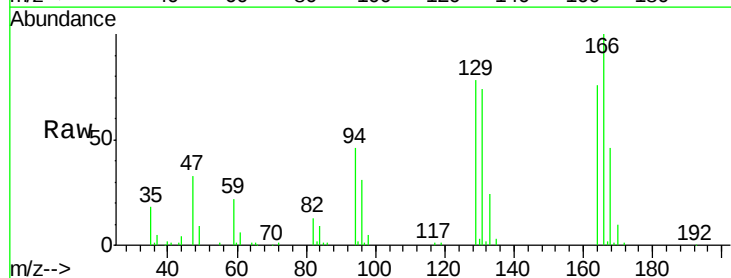
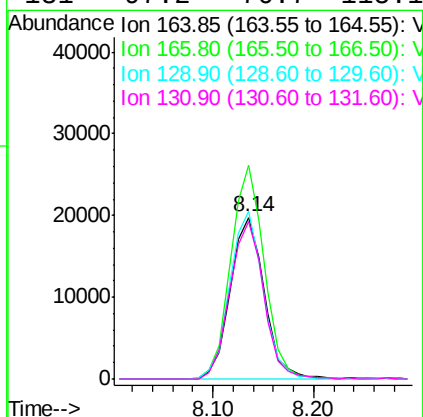
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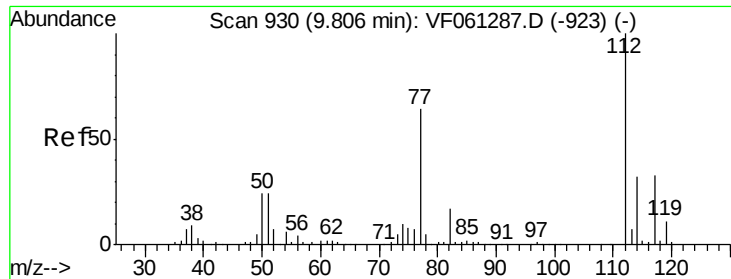
MMDadoda
1/14/2019 1:16:38 PM



#64
Tetrachloroethene
Concen: 21.374 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	46254		
166	132.1	100.1	150.1	
129	103.6	80.1	120.1	
131	97.2	76.7	115.1	





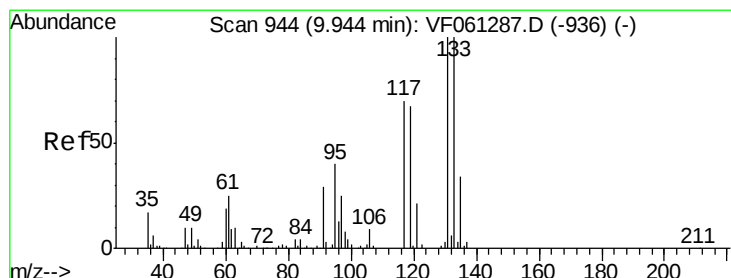
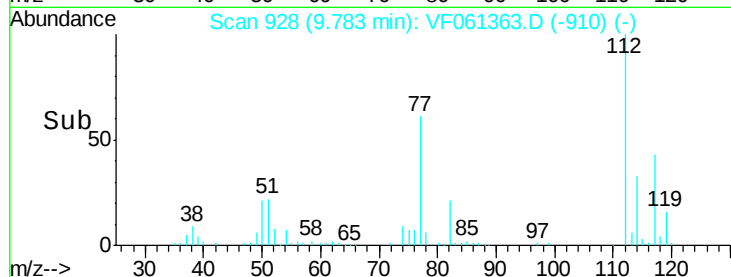
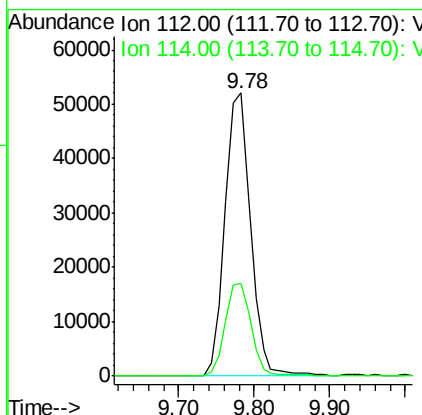
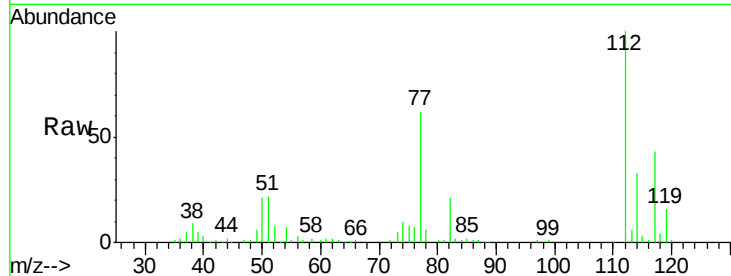
#65
Chlorobenzene
Concen: 20.463 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion:112 Resp: 122818
Ion Ratio Lower Upper
112 100
114 32.7 25.8 38.8

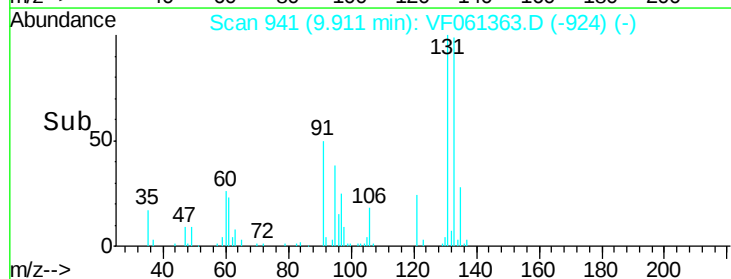
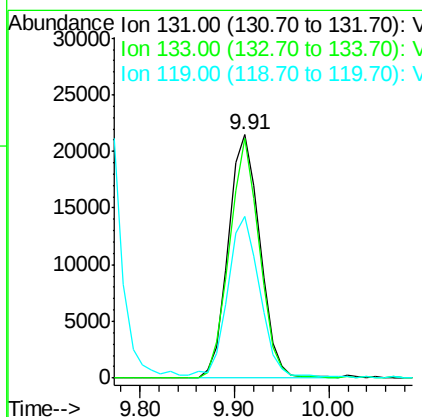
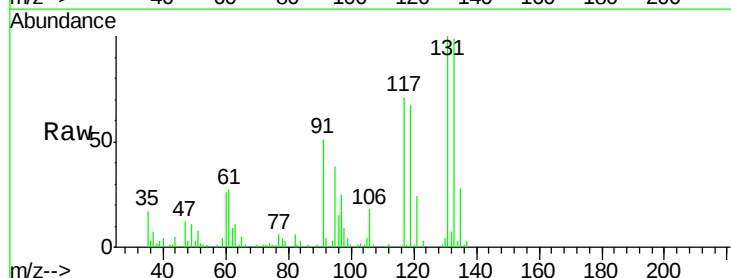
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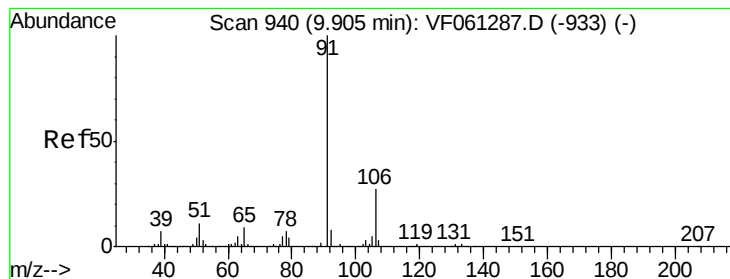
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.428 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.03 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion:131 Resp: 50029
Ion Ratio Lower Upper
131 100
133 98.7 49.9 149.6
119 66.5 33.9 101.6





#67

Ethyl Benzene

Concen: 20.764 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 91 Resp: 240289

Ion Ratio Lower Upper

91 100

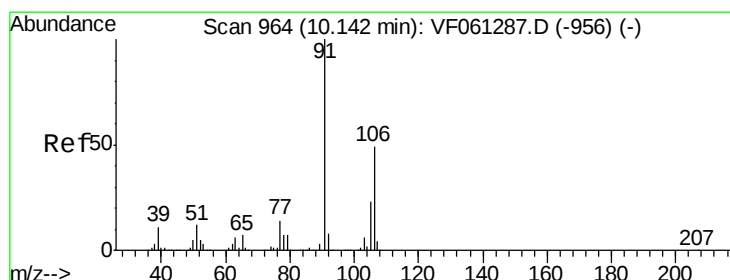
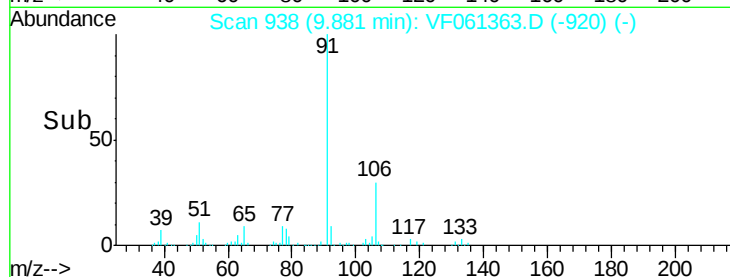
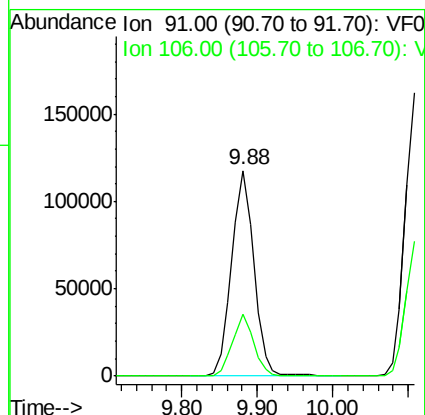
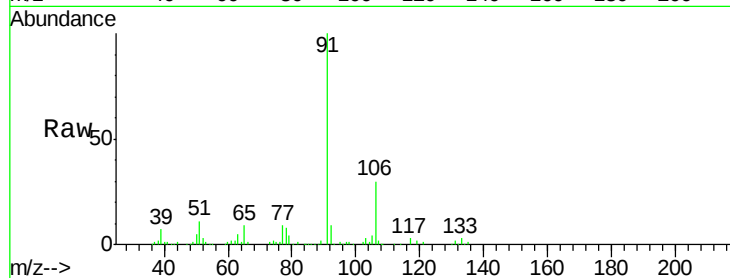
106 30.2 21.4 32.2

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1/14/2019 1:16:38 PM



#68

m/p-Xylenes

Concen: 40.336 ug/l

RT: 10.11 min Scan# 961

Delta R.T. -0.03 min

Lab File: VF061363.D

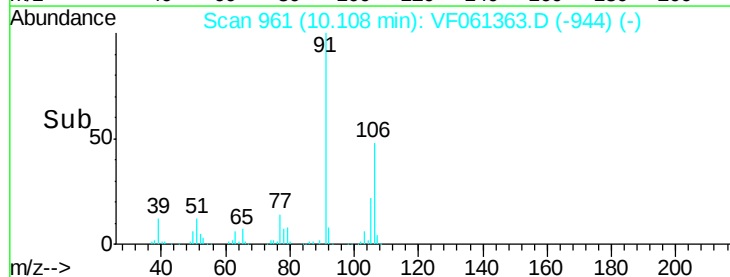
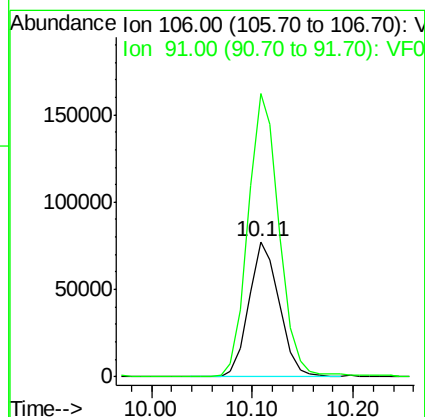
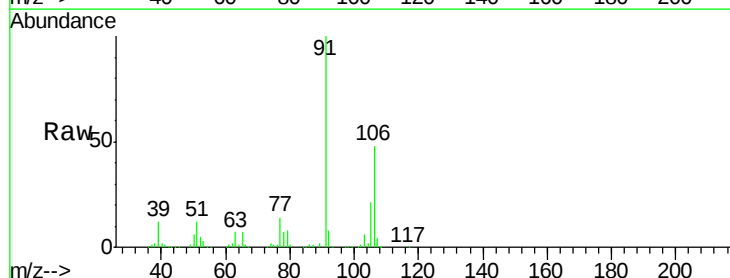
Acq: 11 Jan 2019 12:50

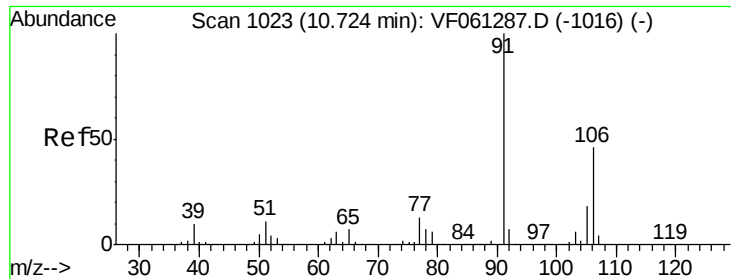
Tgt Ion: 106 Resp: 162825

Ion Ratio Lower Upper

106 100

91 209.3 165.0 247.6





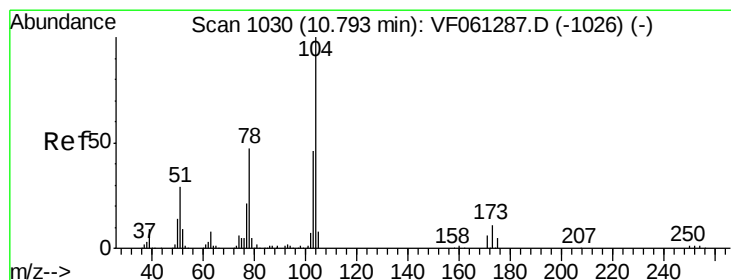
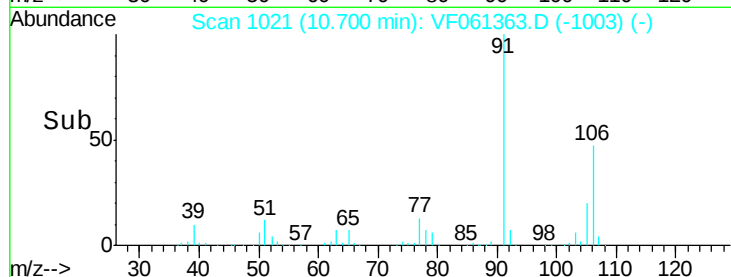
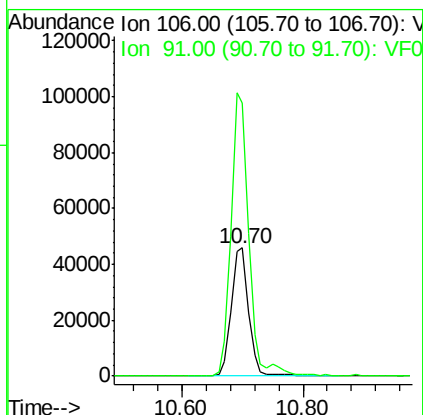
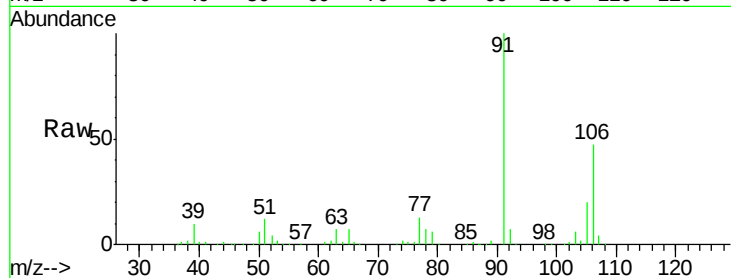
#69
o-Xylene
Concen: 20.493 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion:106 Resp: 92407
Ion Ratio Lower Upper
106 100
91 212.6 108.1 324.4

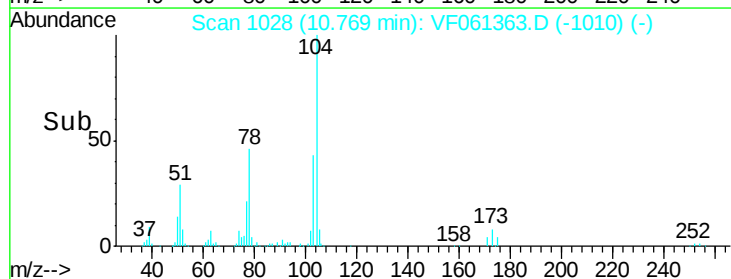
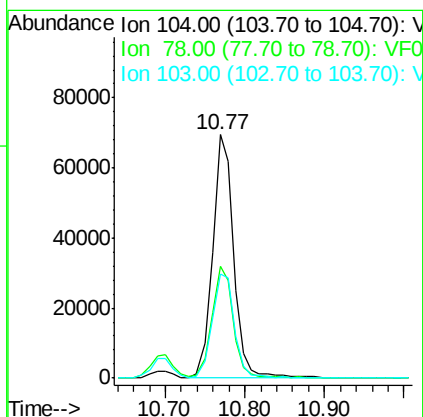
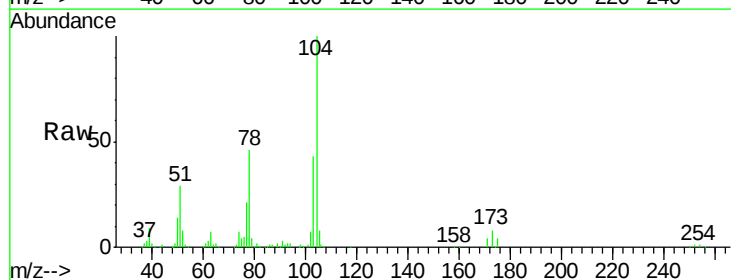
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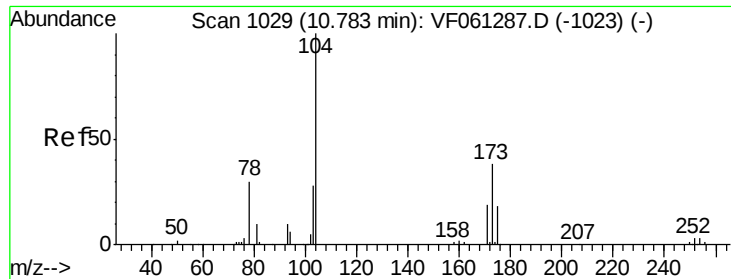
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#70
Styrene
Concen: 21.388 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion:104 Resp: 128479
Ion Ratio Lower Upper
104 100
78 45.9 38.0 57.0
103 43.0 36.7 55.1





#71

Bromoform

Concen: 19.745 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampled :

VF0111SBS01

Tot Ion:173 Resp: 19763

Ion Ratio Lower Upper

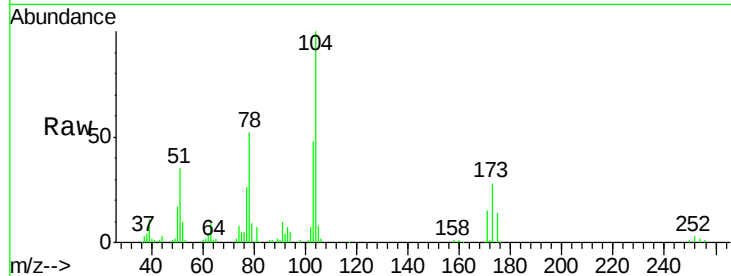
173 100

175 52.4 24.1 72.2

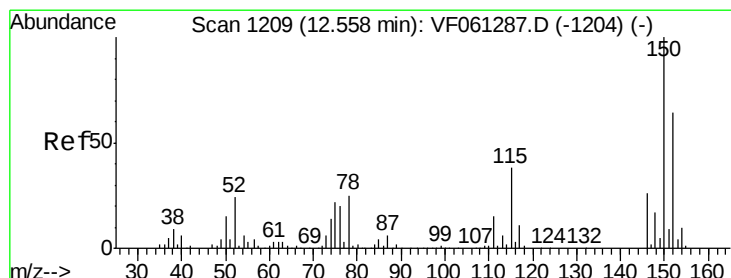
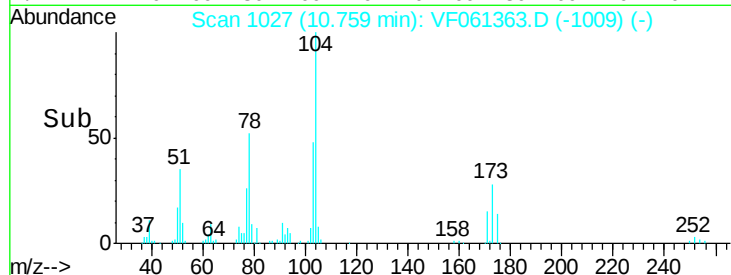
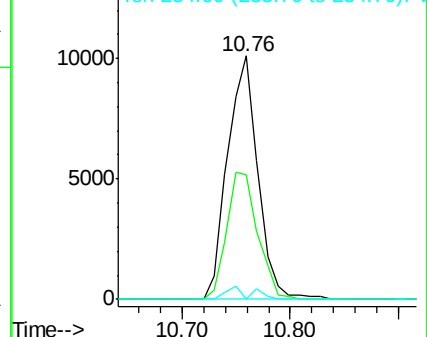
254 0.0 0.0 0.0

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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: 12.53 min Scan# 1207

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

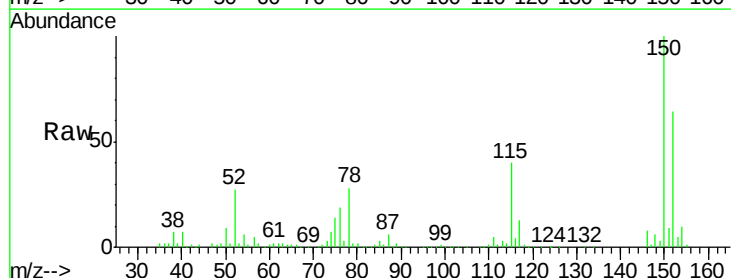
Tgt Ion:152 Resp: 146440

Ion Ratio Lower Upper

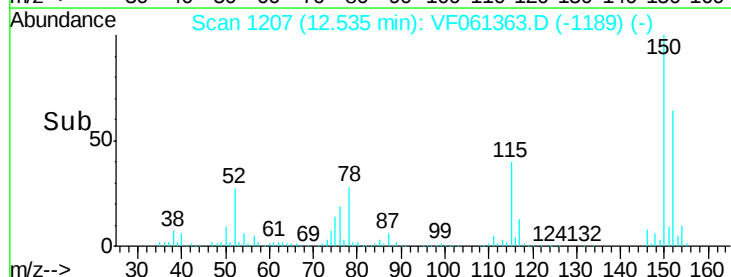
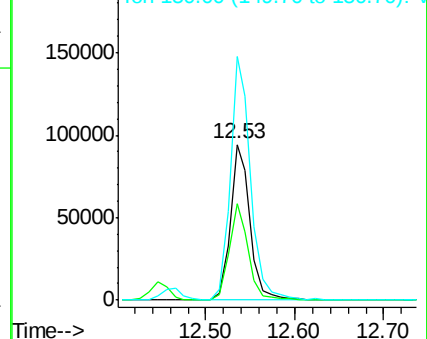
152 100

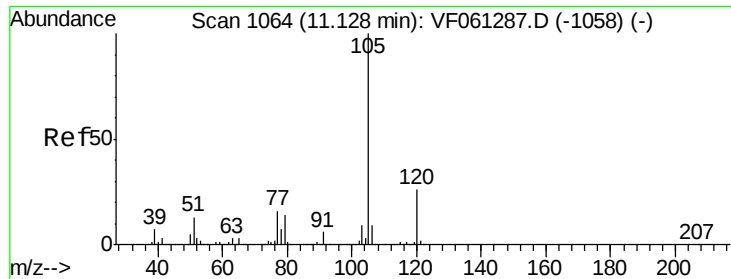
115 61.8 29.6 88.9

150 156.3 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





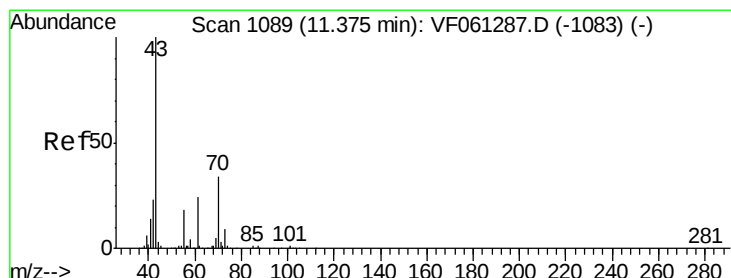
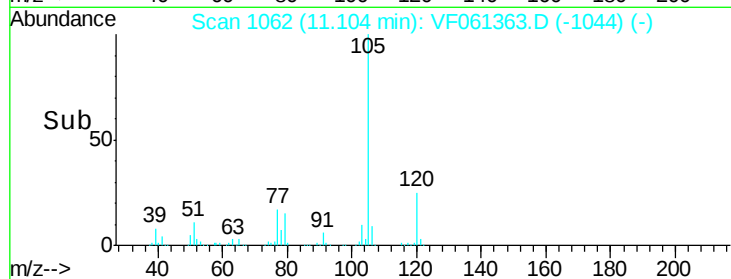
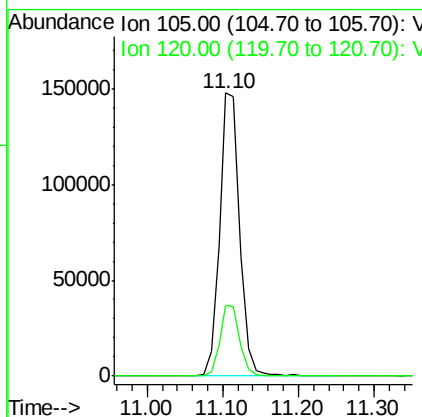
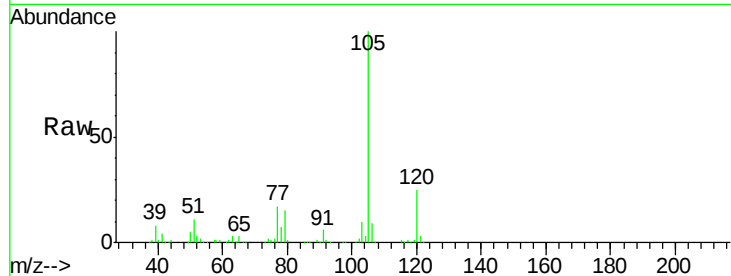
#73
Isopropylbenzene
Concen: 21.221 ug/l
RT: 11.10 min Scan# 1062
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.1	12.9	38.7

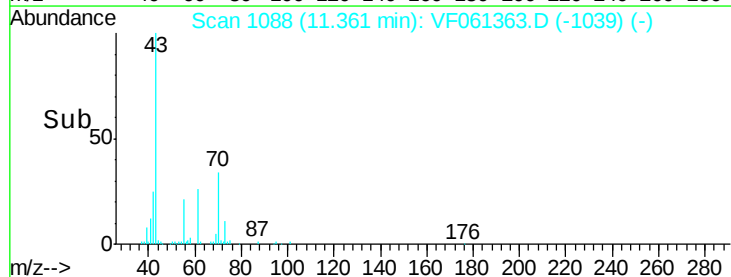
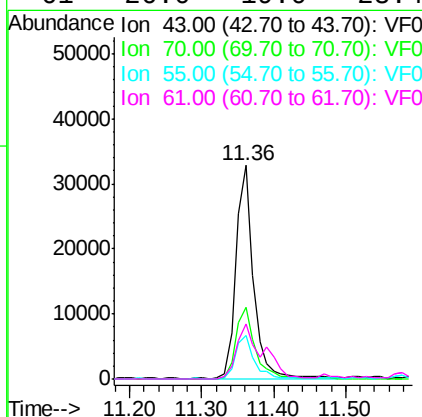
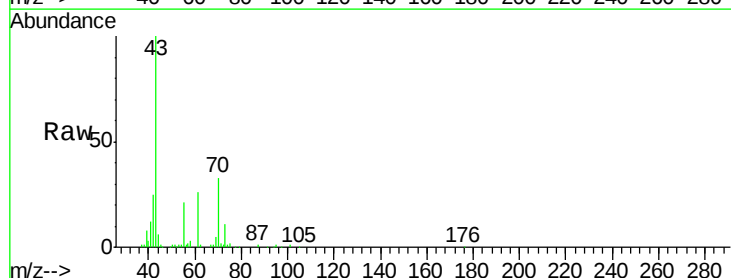
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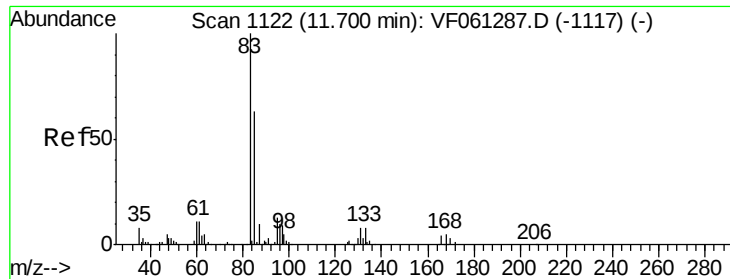
MMDadoda
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#74
N-ethyl acetate
Concen: 19.229 ug/l
RT: 11.36 min Scan# 1088
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
43	100		
70	33.4	27.4	41.0
55	20.6	14.7	22.1
61	26.0	19.0	28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 20.160 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

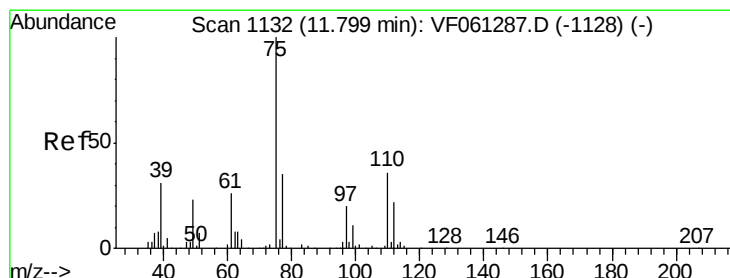
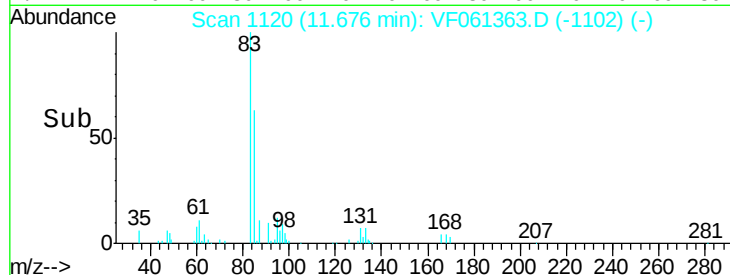
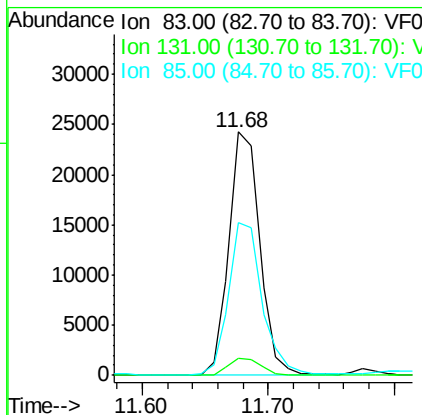
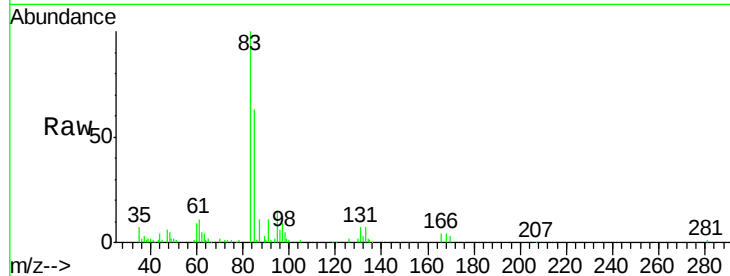
ClientSampleId :

VF0111SBS01

Tot Ion:	83	Resp:	41189
Ion Ratio	Lower	Upper	
83	100		
131	7.0	3.9	11.7
85	62.8	31.6	94.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 20.030 ug/l

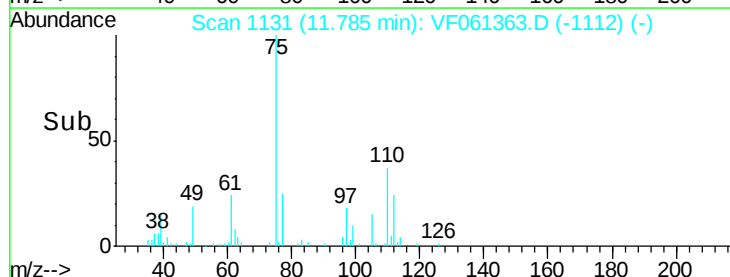
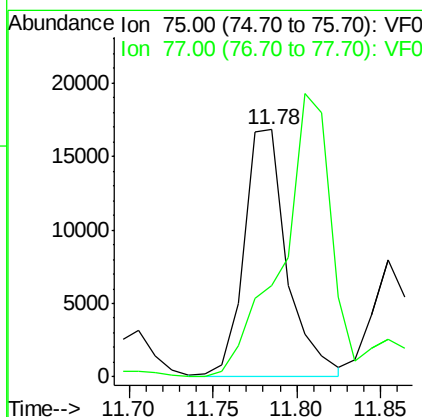
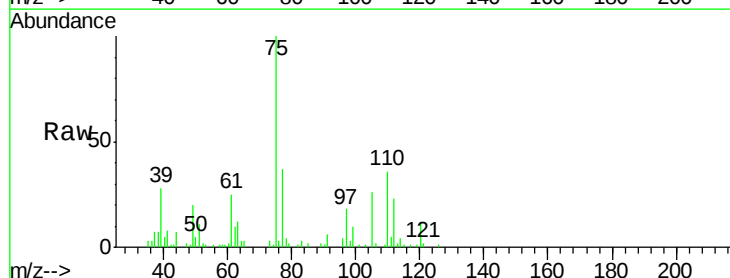
RT: 11.78 min Scan# 1131

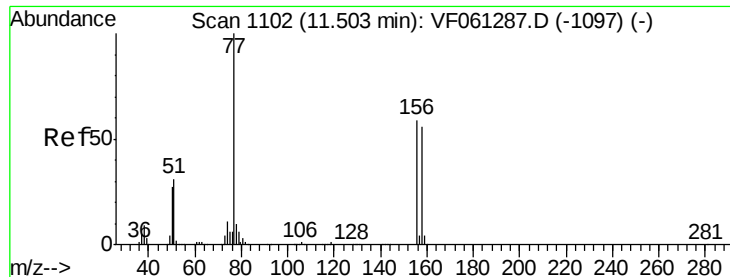
Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion:	75	Resp:	30015
Ion Ratio	Lower	Upper	
75	100		
77	37.1	17.5	52.5





#77

Bromobenzene

Concen: 21.480 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

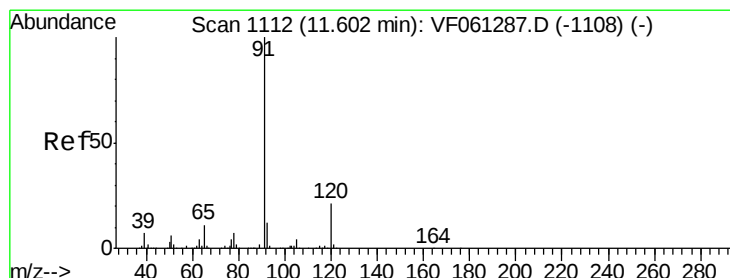
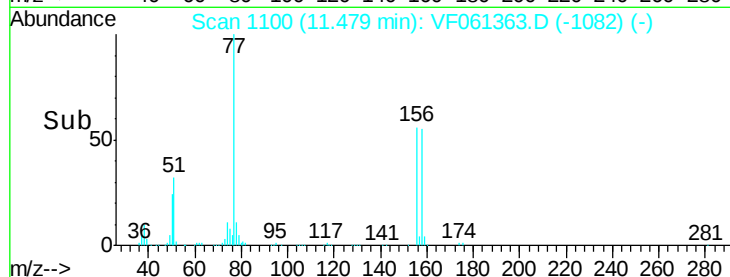
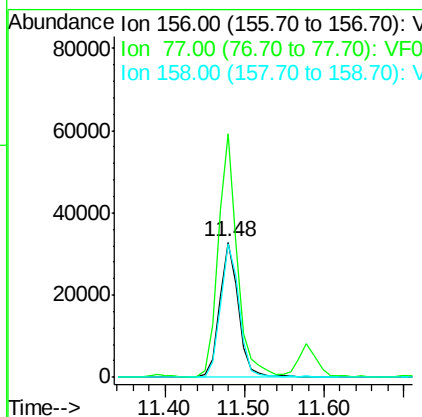
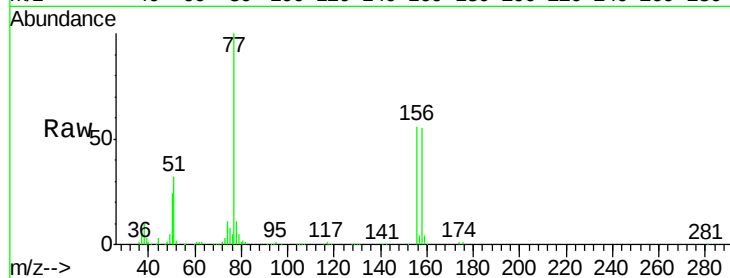
ClientSampleId :

VF0111SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	180.0	84.3	252.9	
158	98.4	47.1	141.3	

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#78

n-propylbenzene

Concen: 20.743 ug/l

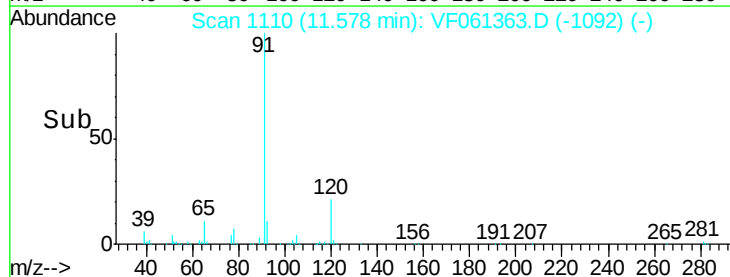
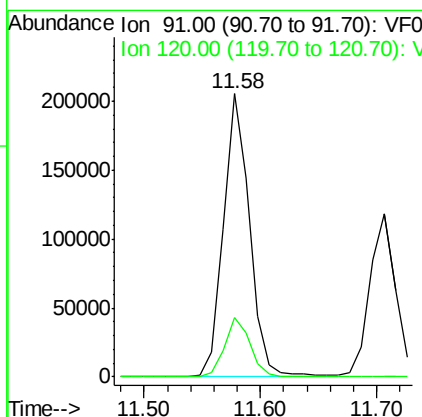
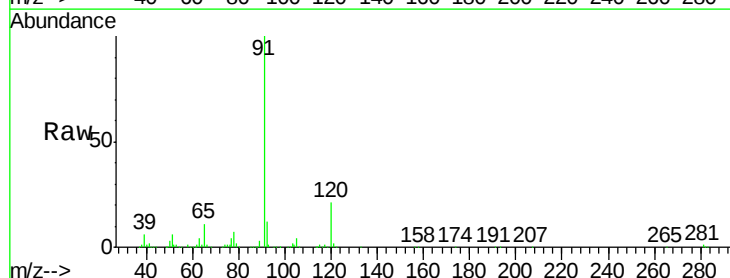
RT: 11.58 min Scan# 1110

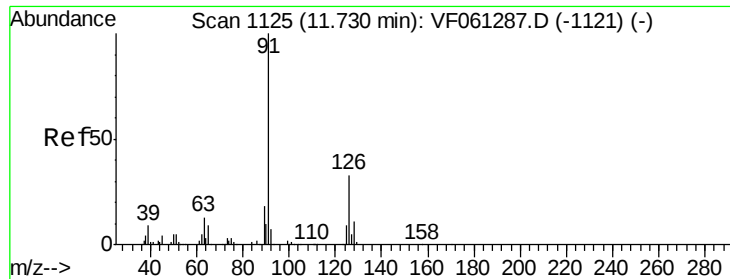
Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.0	10.7	32.1	





#79

2-Chlorotoluene

Concen: 20.874 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0111SBS01

Tot Ion: 91 Resp: 178676

Ion Ratio Lower Upper

91 100

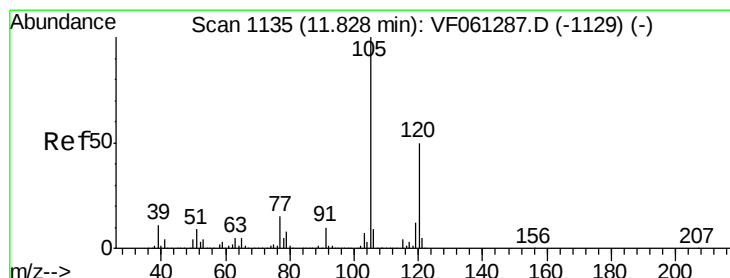
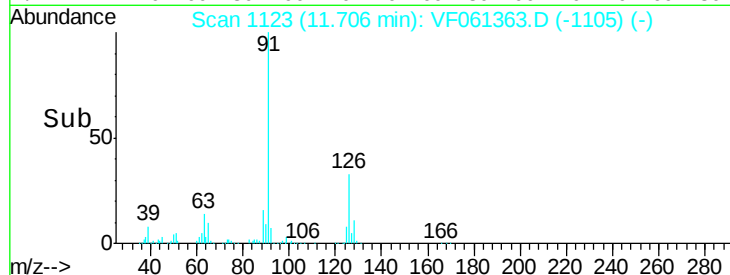
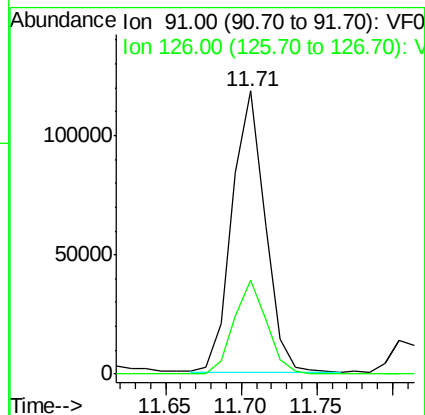
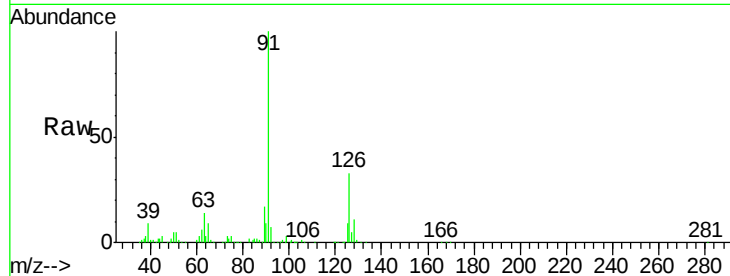
126 33.2 16.6 49.8

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#80

1,3,5-Trimethylbenzene

Concen: 21.380 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.02 min

Lab File: VF061363.D

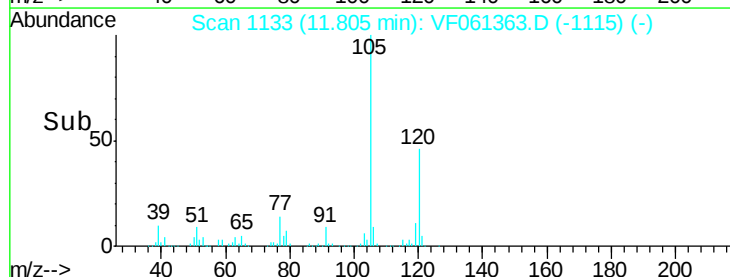
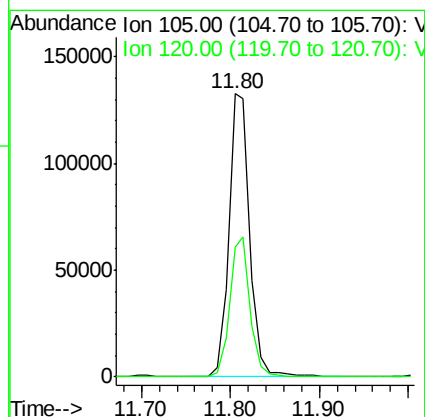
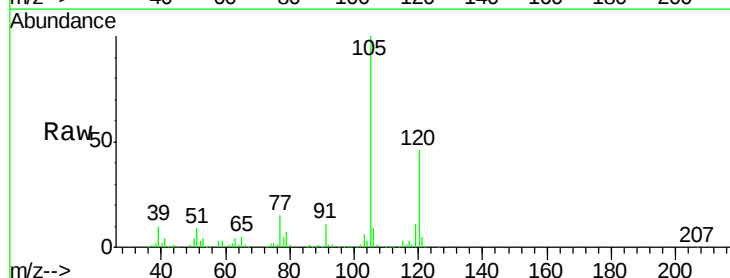
Acq: 11 Jan 2019 12:50

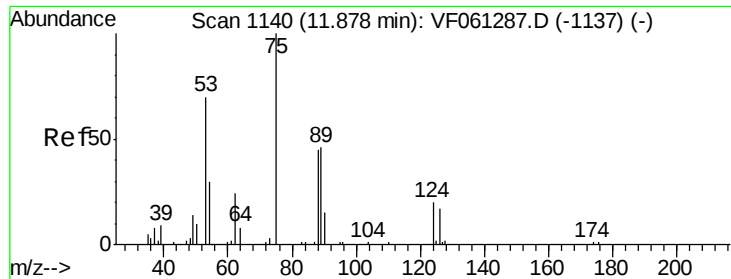
Tgt Ion:105 Resp: 219218

Ion Ratio Lower Upper

105 100

120 46.0 25.2 75.6





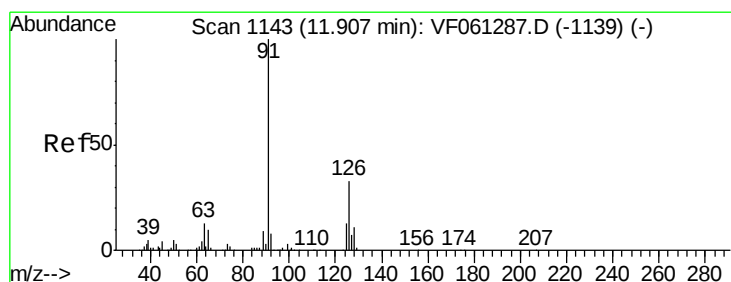
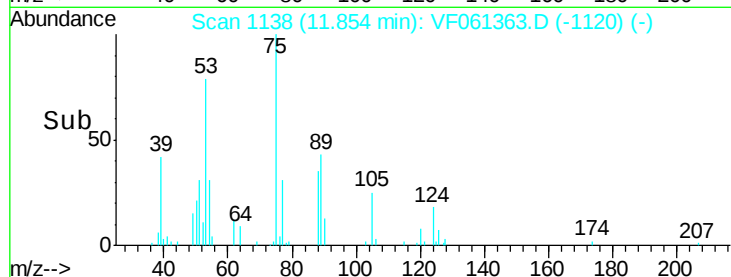
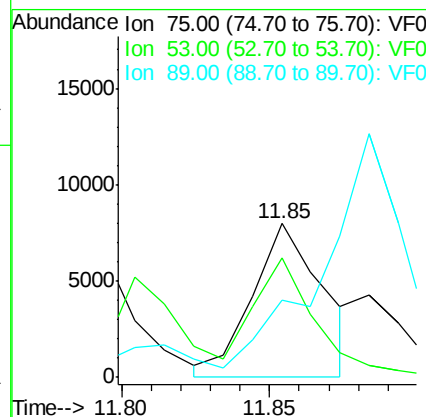
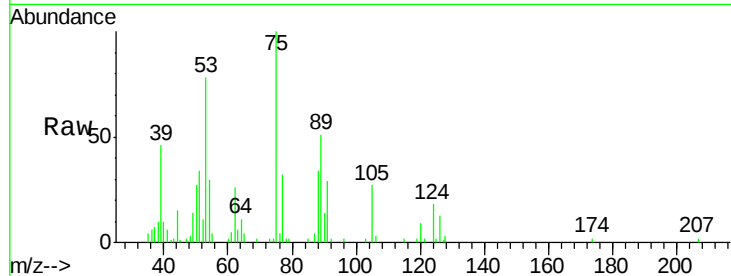
#81
trans-1,4-Dichloro-2-butene
Concen: 20.286 ug/l m
RT: 11.85 min Scan# 1138
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion: 75 Resp: 13284
Ion Ratio Lower Upper
75 100
53 77.6 62.2 93.2
89 50.6 40.2 60.4

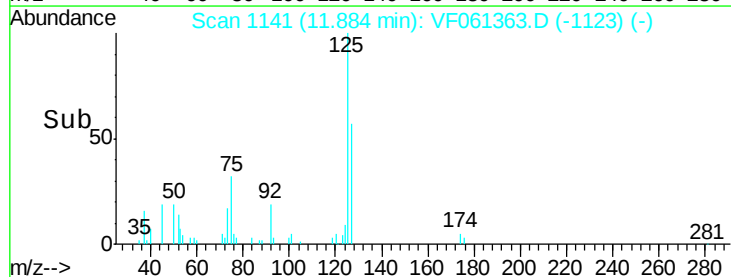
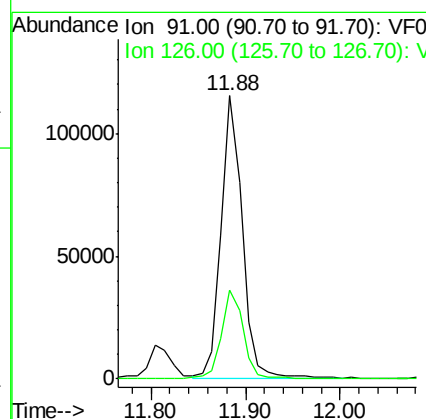
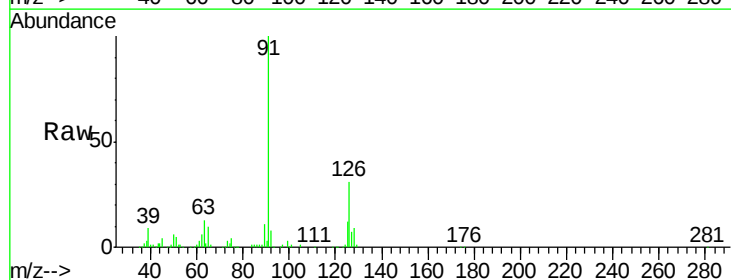
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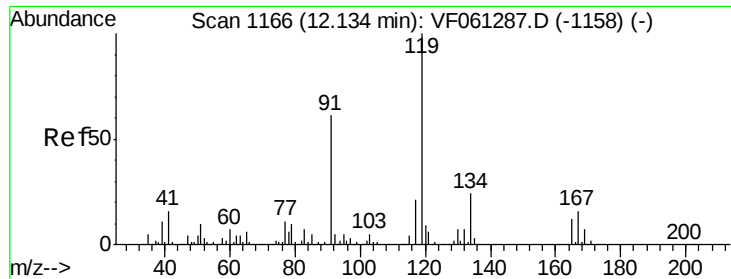
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#82
4-Chlorotoluene
Concen: 20.515 ug/l
RT: 11.88 min Scan# 1141
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion: 91 Resp: 178443
Ion Ratio Lower Upper
91 100
126 31.4 16.4 49.4





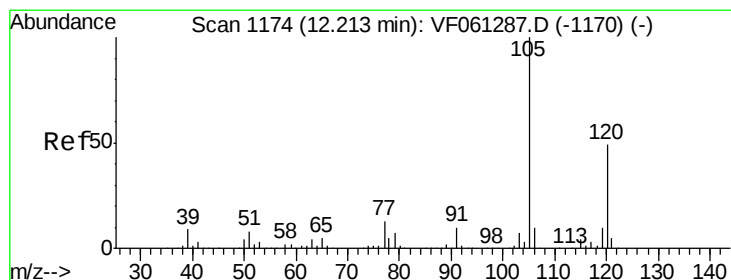
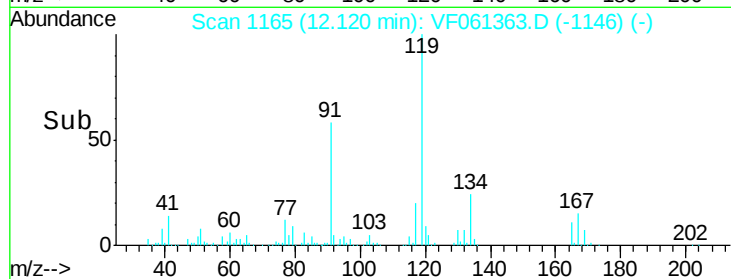
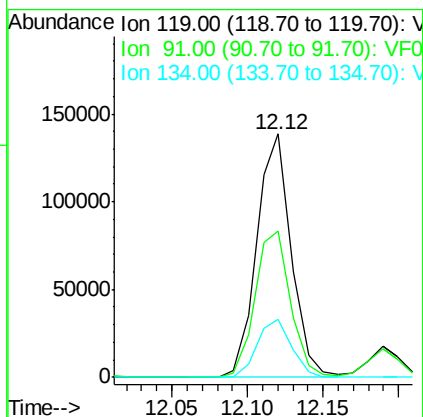
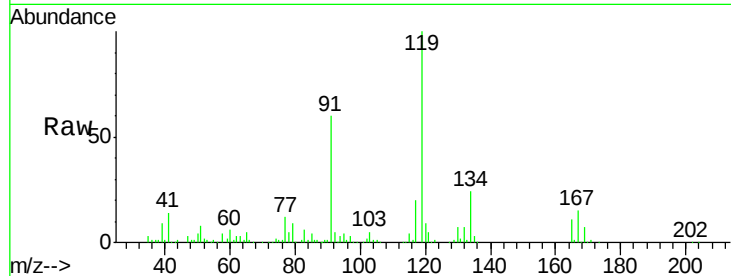
#83
tert-Butylbenzene
Concen: 21.459 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.01 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	219212		
91	59.9	30.8	92.4	
134	23.9	11.9	35.9	

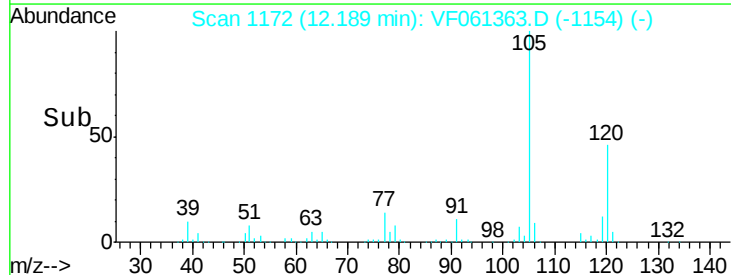
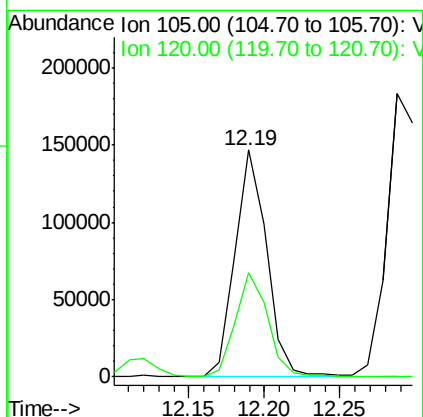
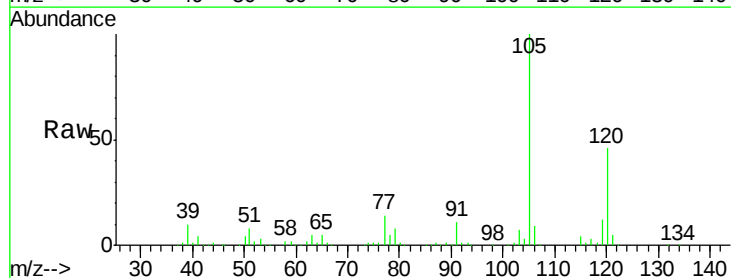
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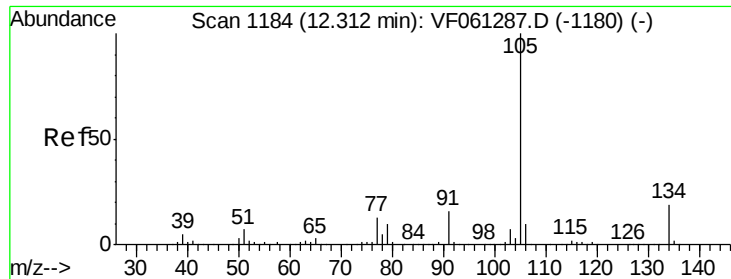
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#84
1,2,4-Trimethylbenzene
Concen: 21.026 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	214046		
120	45.9	24.7	74.1	





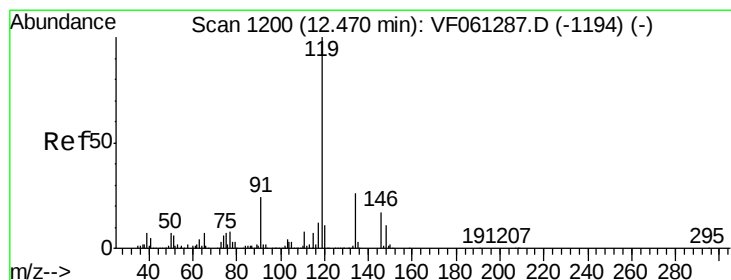
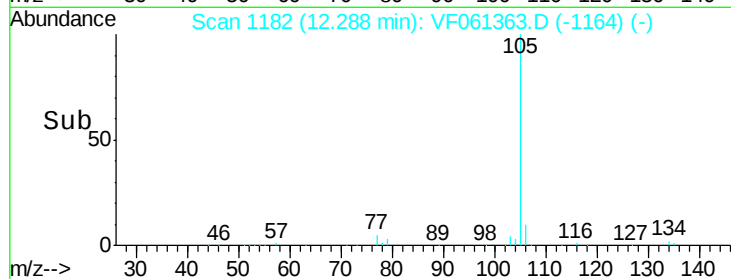
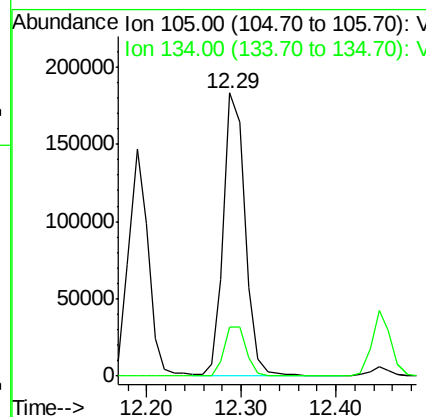
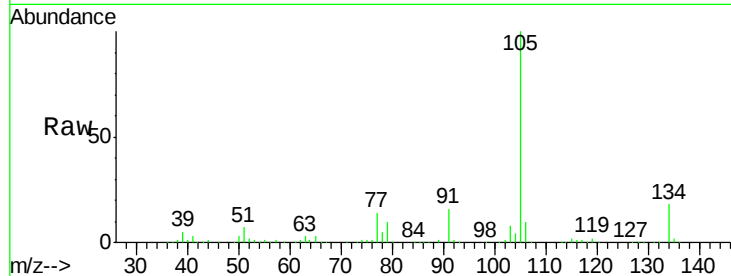
#85
 sec-Butylbenzene
 Concen: 20.120 ug/l
 RT: 12.29 min Scan# 1182
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.5	9.7	28.9

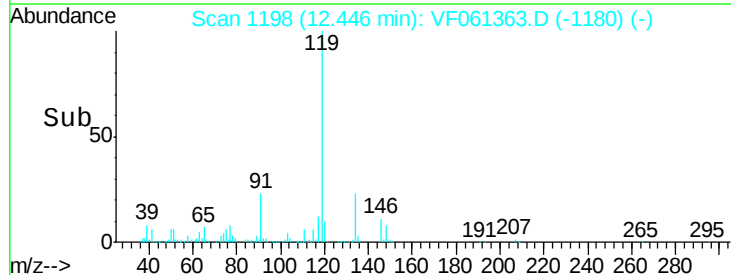
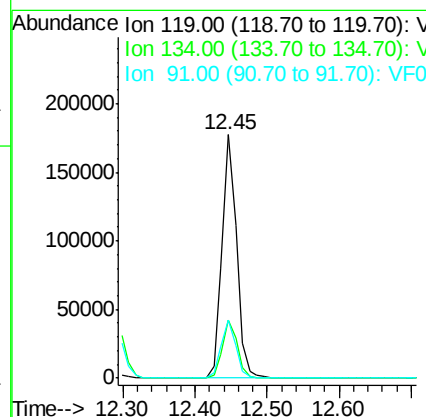
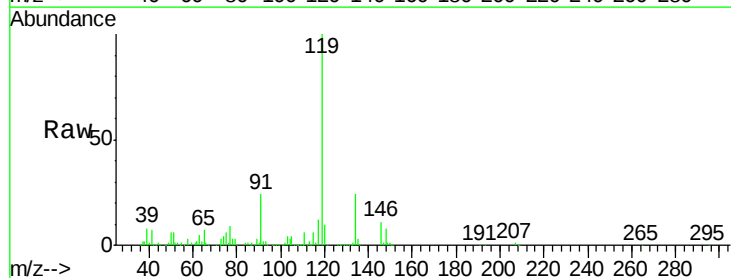
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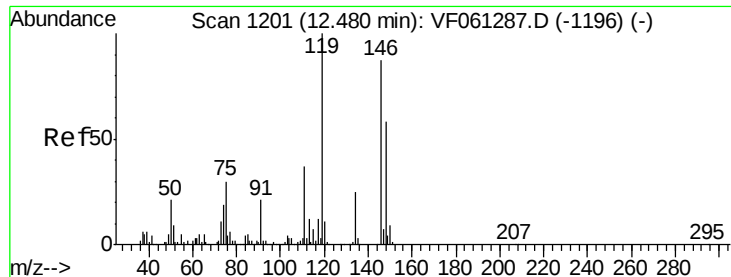
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#86
 p-Isopropyltoluene
 Concen: 20.777 ug/l
 RT: 12.45 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.8	13.0	39.0
91	24.1	12.2	36.4





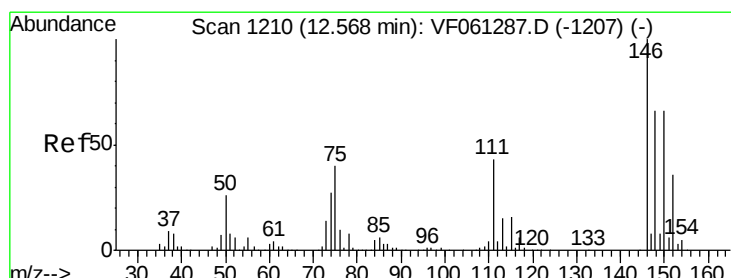
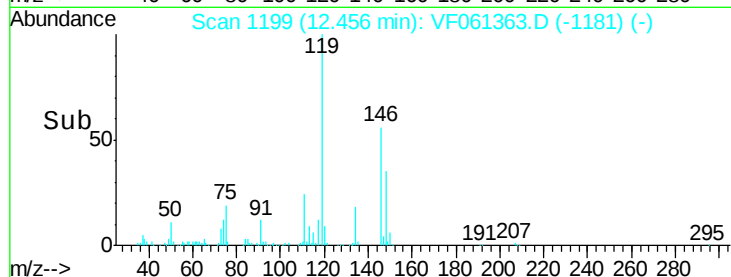
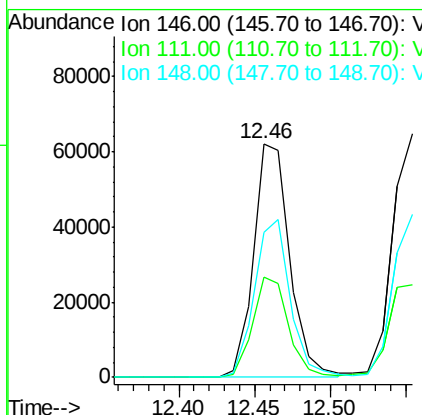
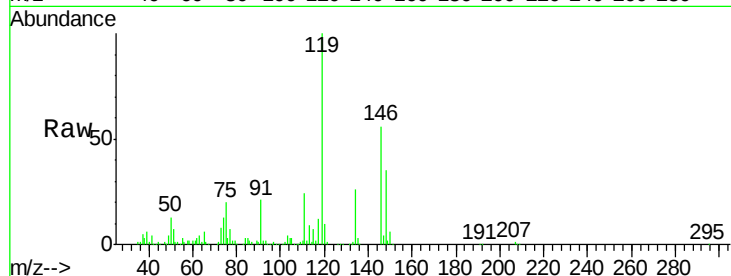
#87
 1,3-Dichlorobenzene
 Concen: 20.629 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.1	63.3
148	61.9	33.1	99.5

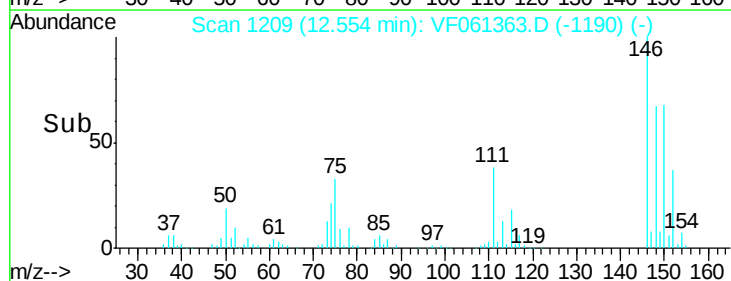
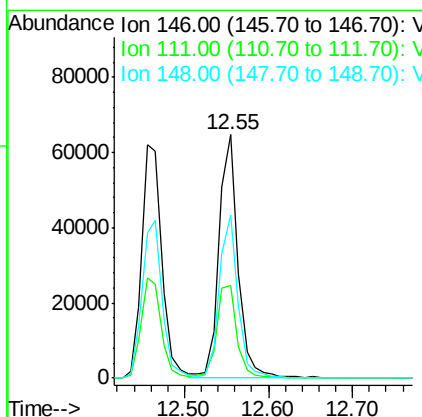
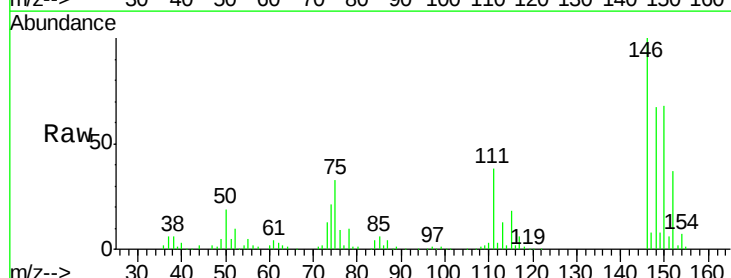
Manual Integrations
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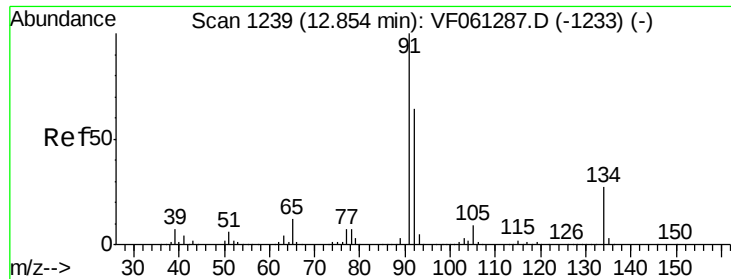
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#88
 1,4-Dichlorobenzene
 Concen: 21.120 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	21.4	64.2
148	66.9	33.0	98.9





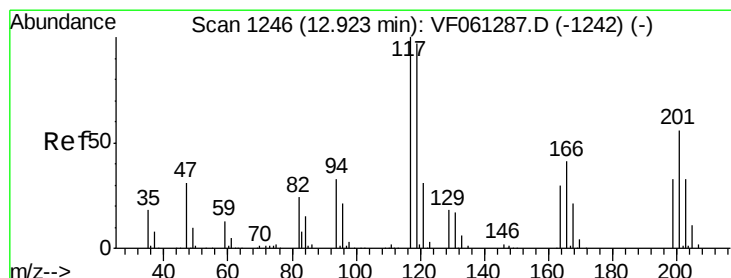
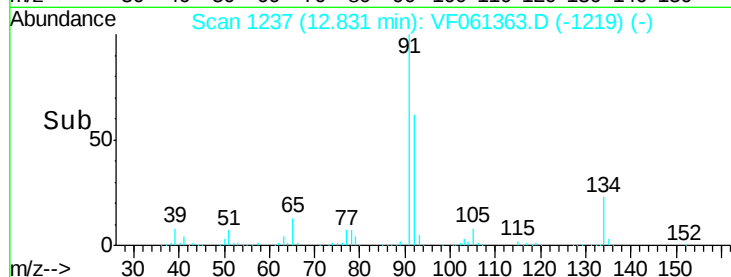
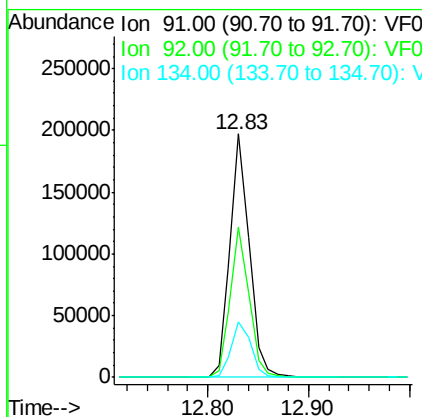
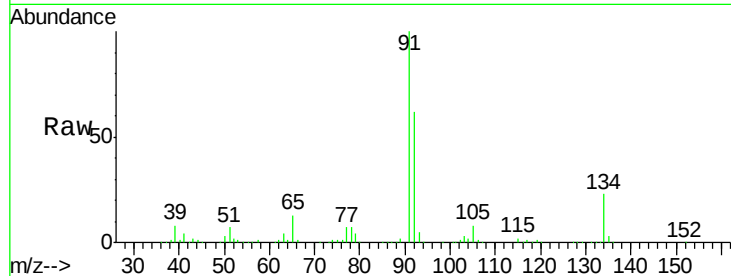
#89
n-Butylbenzene
Concen: 21.720 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0111SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.6	32.1	96.3
134	22.7	13.4	40.1

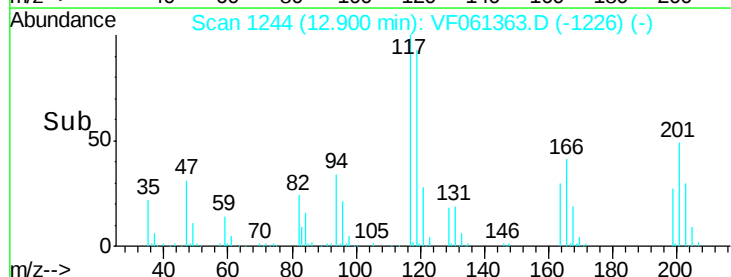
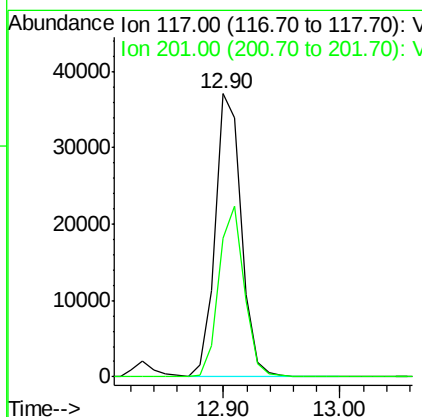
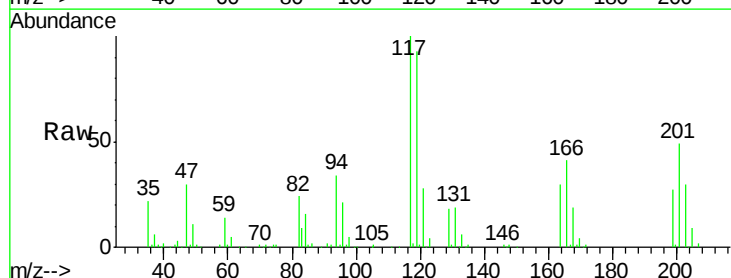
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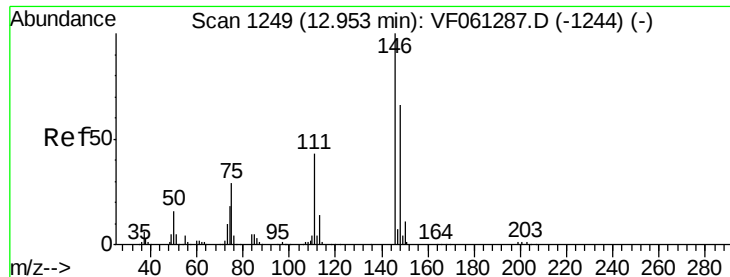
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#90
Hexachloroethane
Concen: 21.387 ug/l
RT: 12.90 min Scan# 1244
Delta R.T. -0.02 min
Lab File: VF061363.D
Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Lower	Upper
117	100		
201	49.0	27.9	83.7





#91

1,2-Dichlorobenzene

Concen: 20.598 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

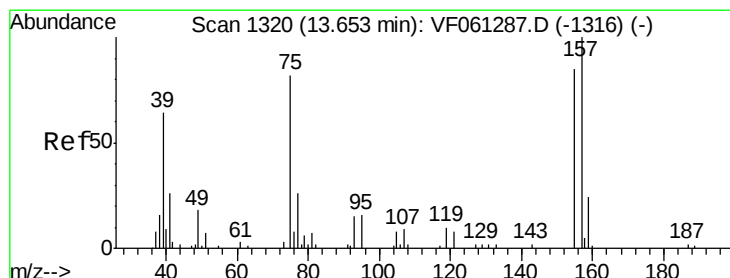
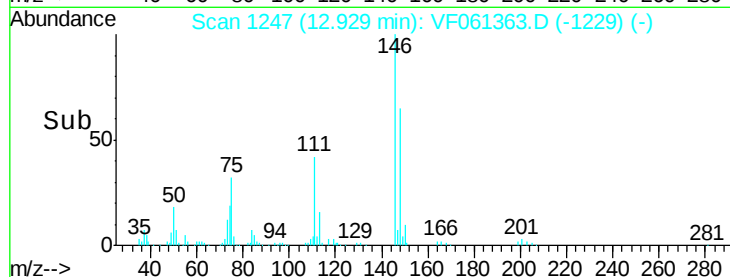
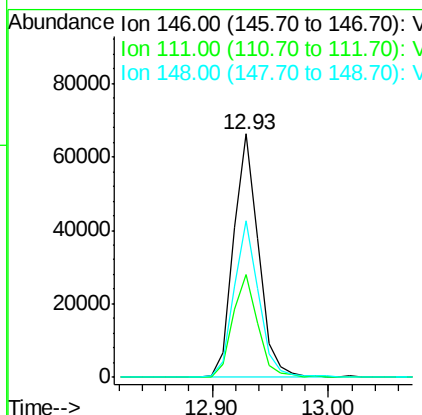
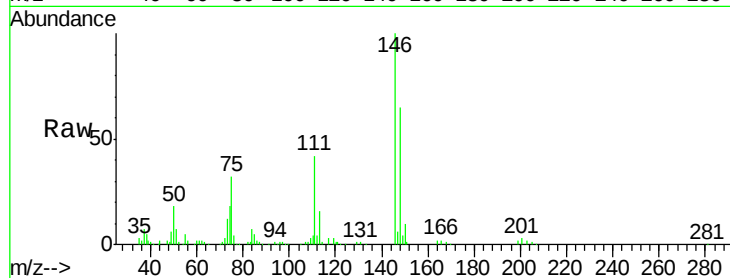
ClientSampleId :

VF0111SBS01

Tot Ion:	146	Resp:	98426
Ion Ratio	Lower	Upper	
146	100		
111	42.3	21.4	64.3
148	64.6	33.1	99.2

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 21.248 ug/l

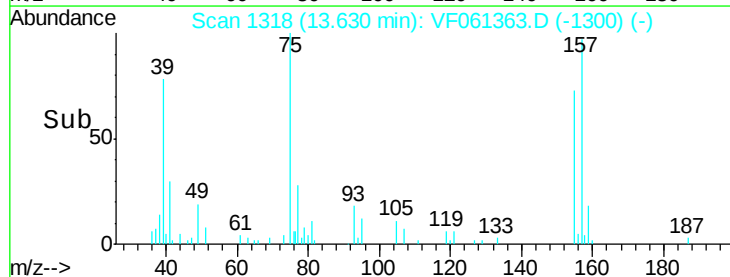
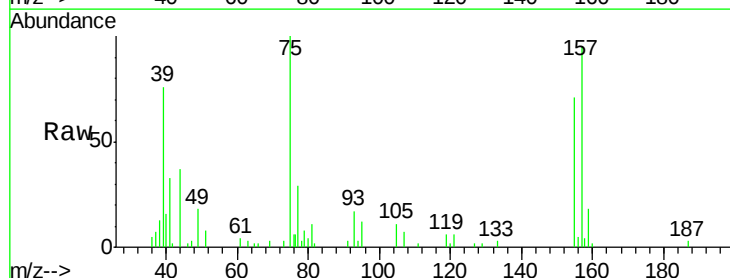
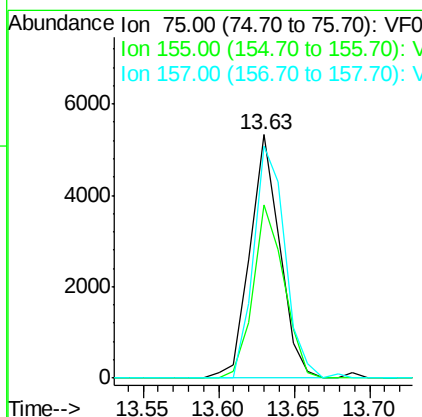
RT: 13.63 min Scan# 1318

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion:	75	Resp:	7335
Ion Ratio	Lower	Upper	
75	100		
155	71.3	51.3	154.0
157	95.4	60.7	182.0





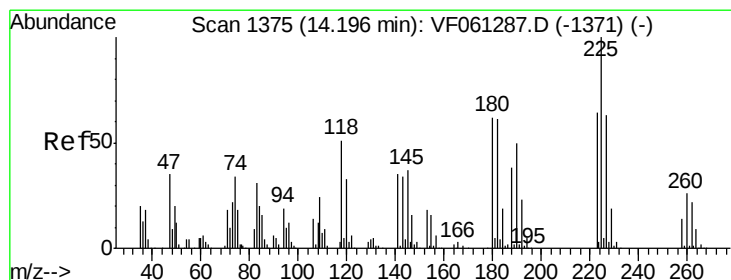
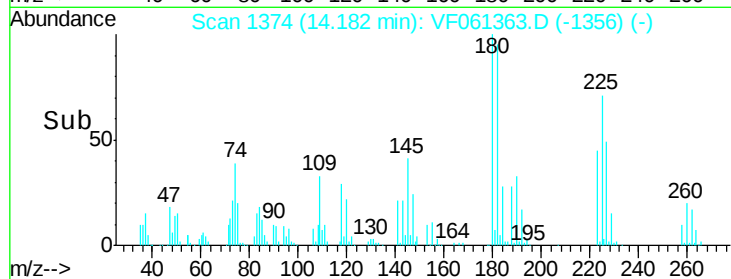
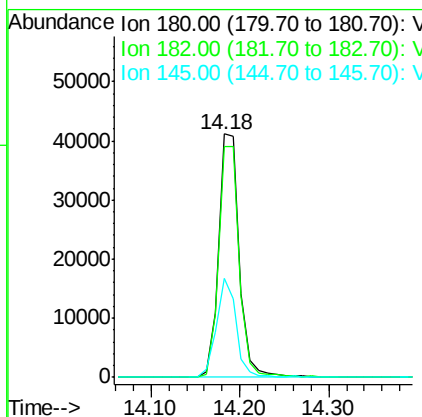
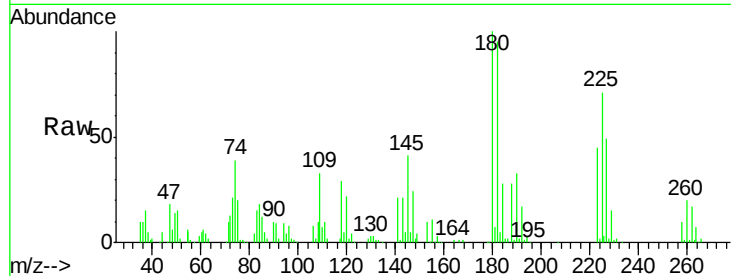
#93
 1,2,4-Trichlorobenzene
 Concen: 20.589 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Instrument :
 MSVOA_F
 ClientSampled :
 VF0111SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	67704		
182	94.6	47.0	141.2	
145	40.6	19.7	59.1	

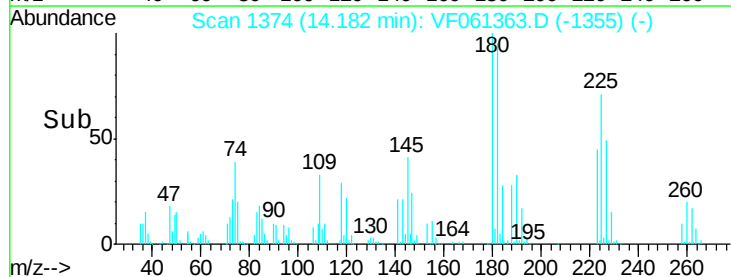
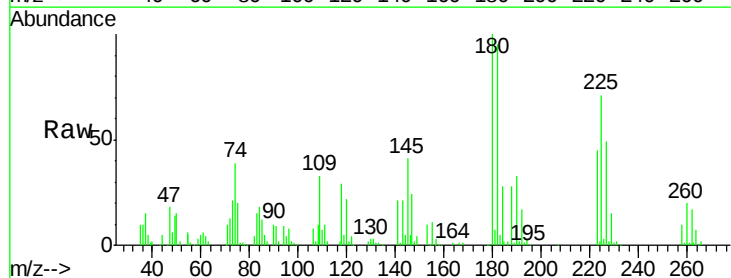
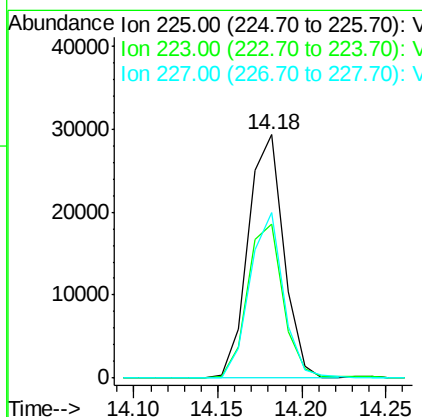
Manual Integrations
 APPROVED

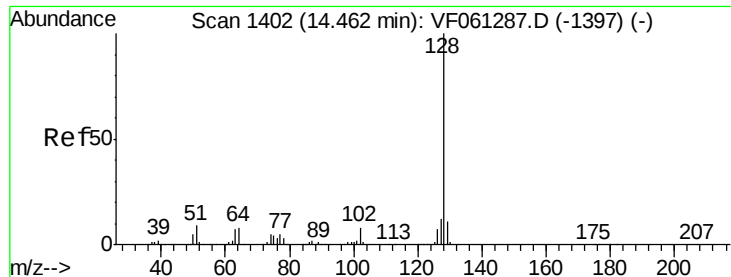
MMDadoda
 1/14/2019 1:16:38 PM



#94
 Hexachlorobutadiene
 Concen: 20.228 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF061363.D
 Acq: 11 Jan 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	42822		
223	63.4	31.8	95.4	
227	68.2	31.3	93.9	





#95

Naphthalene

Concen: 17.606 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.01 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Instrument :

MSVOA_F

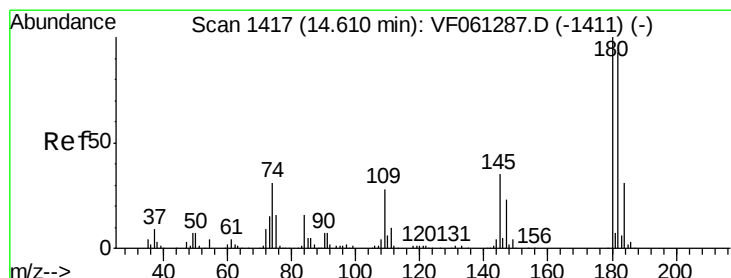
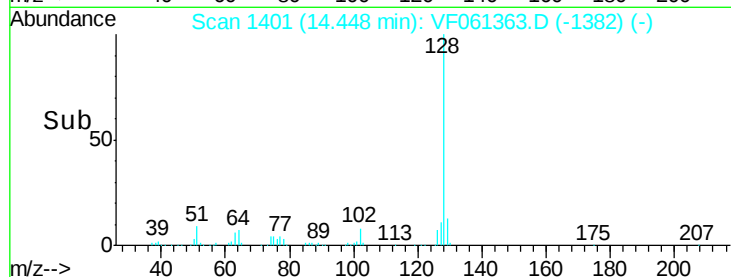
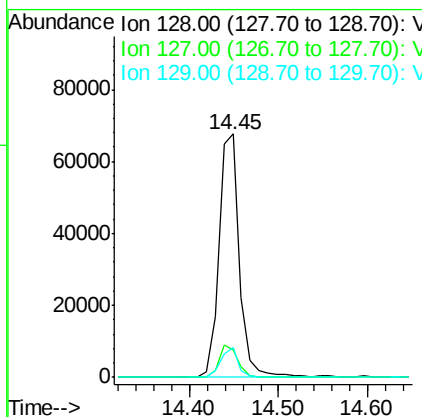
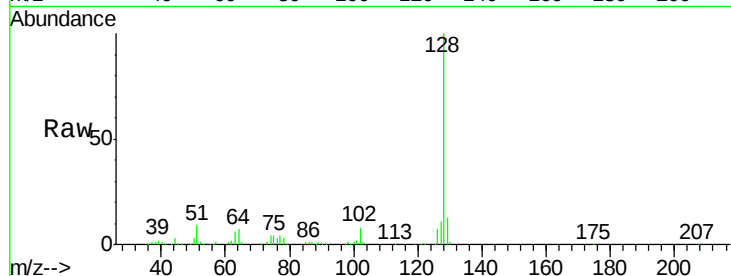
ClientSampleId :

VF0111SBS01

Tot Ion:	128	Resp:	109104
Ion Ratio		Lower	Upper
128	100		
127	11.0	9.4	14.0
129	12.5	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
1/14/2019 1:16:38 PM



#96

1,2,3-Trichlorobenzene

Concen: 18.773 ug/l

RT: 14.59 min Scan# 1415

Delta R.T. -0.02 min

Lab File: VF061363.D

Acq: 11 Jan 2019 12:50

Tgt Ion:	180	Resp:	58150
Ion Ratio		Lower	Upper
180	100		
182	93.5	46.5	139.3
145	40.4	17.5	52.6

