

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF111518\
 Data File : VF060741.D
 Acq On : 15 Nov 2018 12:03
 Operator : VA/AP
 Sample : VF1115SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBS01

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:25:44 PM

Quant Time: Nov 15 14:11:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	243961	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.57	114	403552	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.76	117	355359	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	197308	50.00	ug/l	-0.03

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.81	65	132499	47.62	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	95.24%	
35) Dibromofluoromethane	4.08	113	152138	50.15	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	100.30%	
50) Toluene-d8	7.53	98	412527	53.23	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	106.46%	
62) 4-Bromofluorobenzene	11.39	95	189908	53.16	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	106.32%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	92083	21.09	ug/l	95
3) Chloromethane	1.09	50	60404	22.31	ug/l	92
4) Vinyl Chloride	1.14	62	52132	21.52	ug/l	100
5) Bromomethane	1.32	94	32319	21.01	ug/l	90
6) Chloroethane	1.37	64	20932	22.09	ug/l #	87
7) Trichlorofluoromethane	1.48	101	103441	19.31	ug/l	94
8) Diethyl Ether	1.62	74	14660	21.36	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.81	101	56236	22.28	ug/l	90
10) Methyl Iodide	1.88	142	86911m	21.46	ug/l	
11) Tert butyl alcohol	2.54	59	14277	112.74	ug/l #	83
12) 1,1-Dichloroethene	1.77	96	44322	22.27	ug/l	94
13) Acrolein	1.99	56	12042	103.99	ug/l #	78
14) Allyl chloride	2.08	41	77255	22.16	ug/l	88
15) Acrylonitrile	2.92	53	30786	114.08	ug/l	90
16) Acetone	2.23	43	59326	99.75	ug/l	95
17) Carbon Disulfide	1.82	76	132082m	21.96	ug/l	
18) Methyl Acetate	2.33	43	22051	22.58	ug/l	100
19) Methyl tert-butyl Ether	2.42	73	104653	21.92	ug/l	96
20) Methylene Chloride	2.17	84	52102m	24.92	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	47054	22.63	ug/l	88
22) Diisopropyl ether	2.78	45	151426	22.49	ug/l	96
23) Vinyl Acetate	3.17	43	364589	115.01	ug/l	97
24) 1,1-Dichloroethane	2.85	63	90760	22.27	ug/l	99
25) 2-Butanone	4.31	43	107267	109.65	ug/l	97
26) 2,2-Dichloropropane	3.58	77	63447	19.78	ug/l	95
27) cis-1,2-Dichloroethene	3.45	96	77343	21.86	ug/l	98
28) Bromochloromethane	3.69	49	45669	21.56	ug/l	94
29) Tetrahydrofuran	4.05	42	42979	106.51	ug/l	99
30) Chloroform	3.84	83	152386	23.30	ug/l	97
31) Cyclohexane	3.66	56	111835m	22.61	ug/l	
32) 1,1,1-Trichloroethane	4.06	97	102078	19.82	ug/l	95
36) 1,1-Dichloropropene	4.26	75	103755	22.17	ug/l	98
37) Ethyl Acetate	4.08	43	39720	22.83	ug/l	86
38) Carbon Tetrachloride	3.96	117	86770	19.11	ug/l	93

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.42	83	122186	22.50	ug/l	99
40) Benzene	4.61	78	229094	21.96	ug/l	99
41) Methacrylonitrile	4.72	41	22866	22.24	ug/l #	90
42) 1,2-Dichloroethane	4.91	62	75893	21.05	ug/l	98
43) Isopropyl Acetate	6.93	43	48820	21.16	ug/l #	95
44) Trichloroethene	5.47	130	72485	22.02	ug/l	99
45) 1,2-Dichloropropane	6.21	63	56941	20.97	ug/l	99
46) Dibromomethane	6.07	93	37715	21.05	ug/l	96
47) Bromodichloromethane	6.36	83	98717	21.57	ug/l	98
48) Methyl methacrylate	6.70	41	31231	20.45	ug/l	95
49) 1,4-Dioxane	6.68	88	5676	397.49	ug/l #	88
51) 4-Methyl-2-Pentanone	8.24	43	177206	106.20	ug/l	98
52) Toluene	7.60	92	140109	20.04	ug/l	95
53) t-1,3-Dichloropropene	8.26	75	73867	20.15	ug/l	94
54) cis-1,3-Dichloropropene	7.28	75	100618	21.13	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	41063	20.56	ug/l	94
56) Ethyl methacrylate	8.60	69	45010	19.84	ug/l	96
57) 1,3-Dichloropropane	8.83	76	69289	20.01	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.59	63	21259	102.58	ug/l	100
59) 2-Hexanone	9.47	43	115245	98.28	ug/l	88
60) Dibromochloromethane	8.69	129	59078	20.75	ug/l	97
61) 1,2-Dibromoethane	8.97	107	44583	21.22	ug/l	98
64) Tetrachloroethene	8.13	164	61904	22.00	ug/l	89
65) Chlorobenzene	9.77	112	154242	21.51	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.90	131	67087	21.45	ug/l	99
67) Ethyl Benzene	9.87	91	291242	21.55	ug/l	98
68) m/p-Xylenes	10.11	106	214694	44.45	ug/l	97
69) o-Xylene	10.69	106	122010	22.47	ug/l	97
70) Styrene	10.77	104	158506	21.51	ug/l	98
71) Bromoform	10.75	173	29128	20.71	ug/l	94
73) Isopropylbenzene	11.11	105	359261	22.62	ug/l	96
74) N-amyl acetate	11.35	43	81368	22.51	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	57912	22.06	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	41680	21.37	ug/l	96
77) Bromobenzene	11.48	156	71251	21.55	ug/l	91
78) n-propylbenzene	11.58	91	396294	21.39	ug/l	100
79) 2-Chlorotoluene	11.71	91	237463	22.06	ug/l	100
80) 1,3,5-Trimethylbenzene	11.81	105	274931	21.80	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	20491m	21.39	ug/l	
82) 4-Chlorotoluene	11.89	91	233342	21.16	ug/l	99
83) tert-Butylbenzene	12.11	119	295478	22.07	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	274111	21.02	ug/l	96
85) sec-Butylbenzene	12.29	105	404250	22.26	ug/l	98
86) p-Isopropyltoluene	12.45	119	332738	21.94	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	143018	21.74	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	134422	21.26	ug/l	96
89) n-Butylbenzene	12.83	91	337717	21.82	ug/l	96
90) Hexachloroethane	12.90	117	82262	22.17	ug/l	95
91) 1,2-Dichlorobenzene	12.93	146	133291	21.52	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	9022	18.28	ug/l	65

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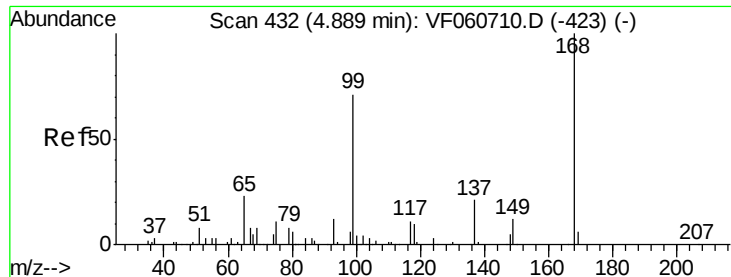
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	91500	20.55	ug/l	99
94) Hexachlorobutadiene	14.17	225	61318	21.08	ug/l	99
95) Naphthalene	14.44	128	164379	20.23	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	87754	21.33	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.05 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBS01

Tgt Ion: 168 Resp: 243961

Ion Ratio Lower Upper

168 100

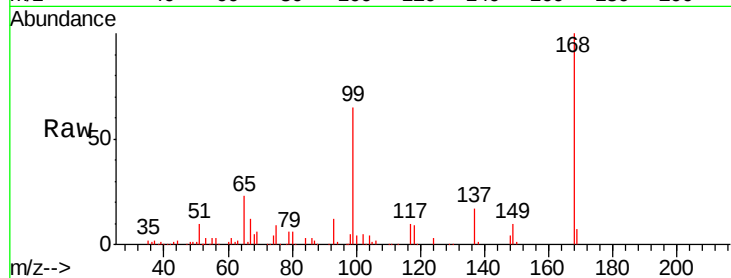
99 64.6 57.2 85.8

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

80000

60000

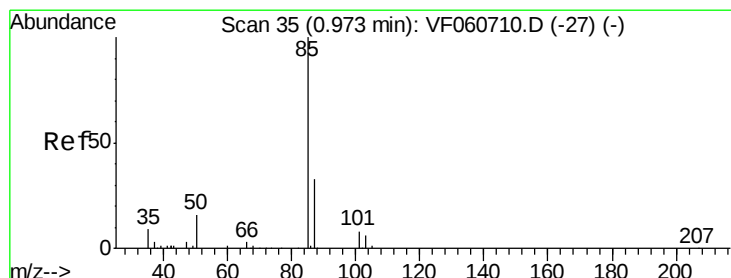
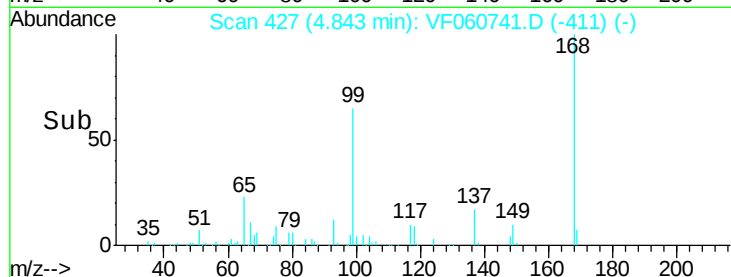
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: 21.09 ug/l

RT: 0.97 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060741.D

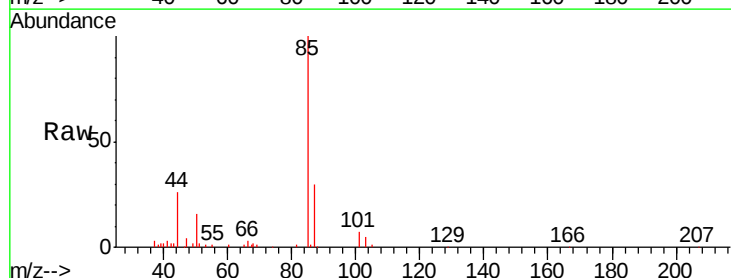
Acq: 15 Nov 2018 12:03

Tgt Ion: 85 Resp: 92083

Ion Ratio Lower Upper

85 100

87 29.7 16.3 48.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

30000

25000

20000

15000

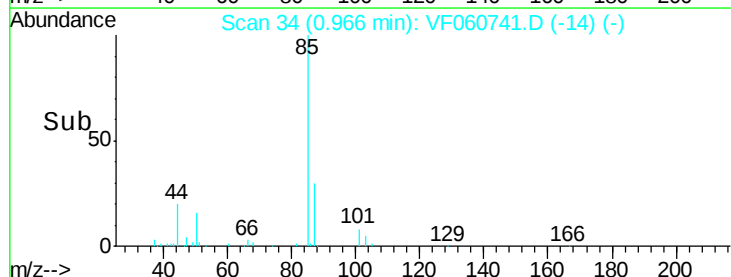
10000

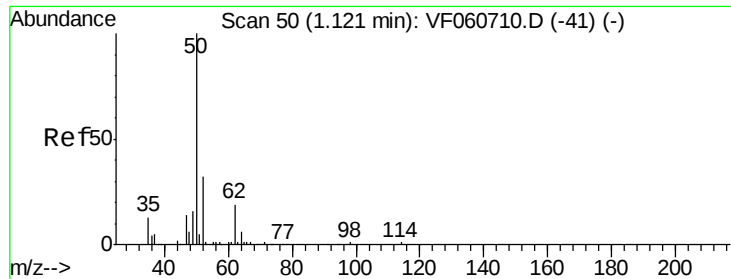
5000

0

0.80 0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 22.31 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBS01

Tgt Ion: 50 Resp: 60404

Ion Ratio Lower Upper

50 100

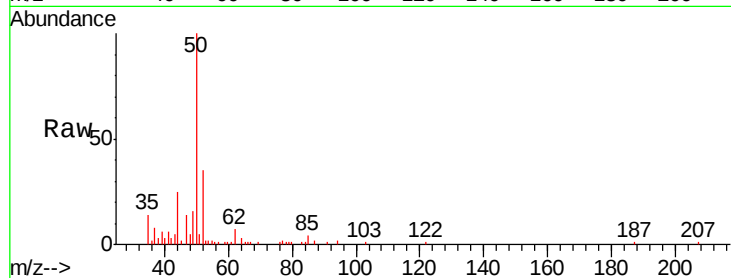
52 34.8 24.2 36.2

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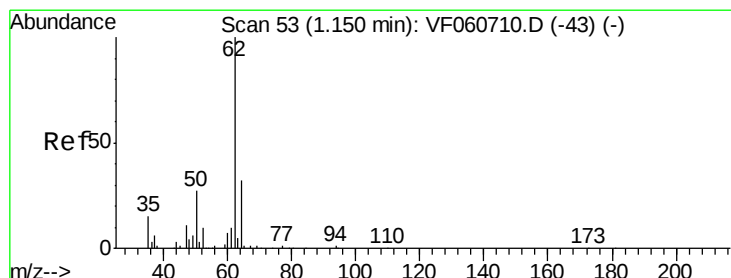
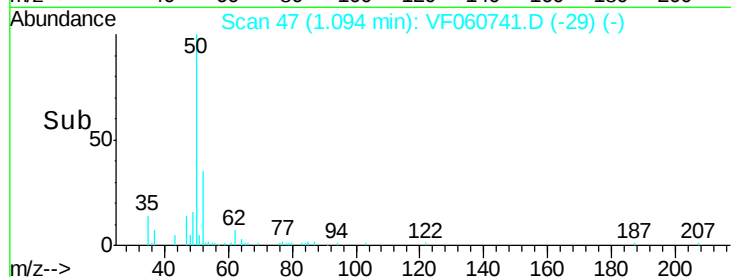
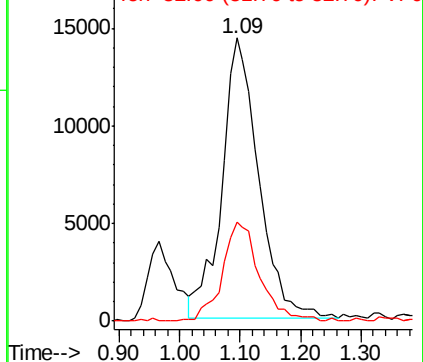
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 21.52 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060741.D

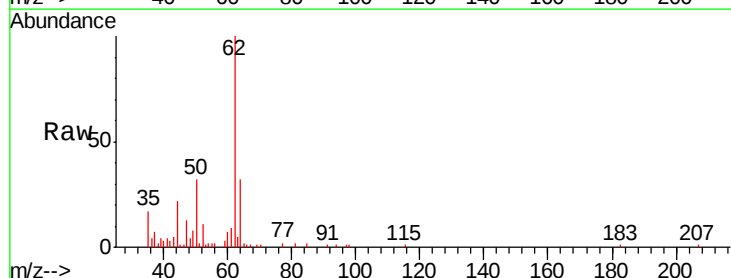
Acq: 15 Nov 2018 12:03

Tgt Ion: 62 Resp: 52132

Ion Ratio Lower Upper

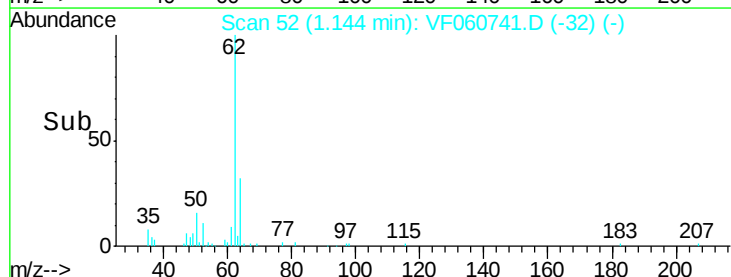
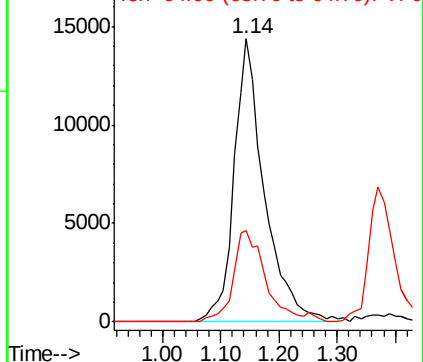
62 100

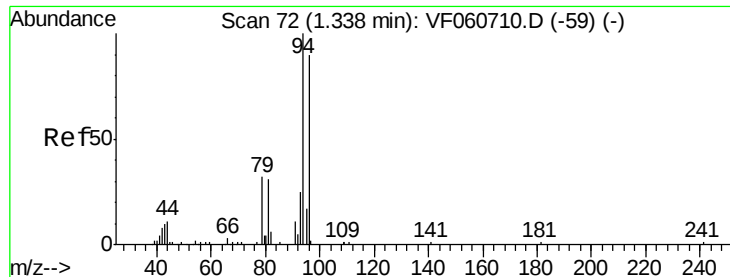
64 32.2 25.8 38.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 21.01 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

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ClientSampleId :

VF1115SBS01

Tgt Ion: 94 Resp: 32319

Ion Ratio Lower Upper

94 100

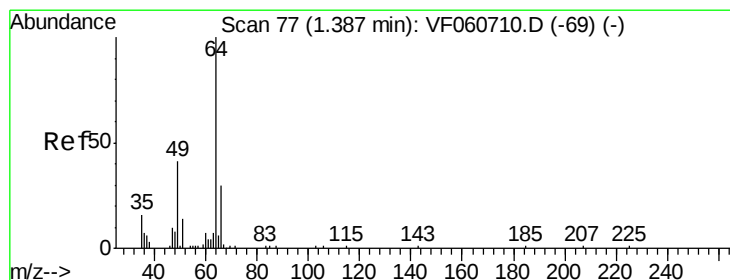
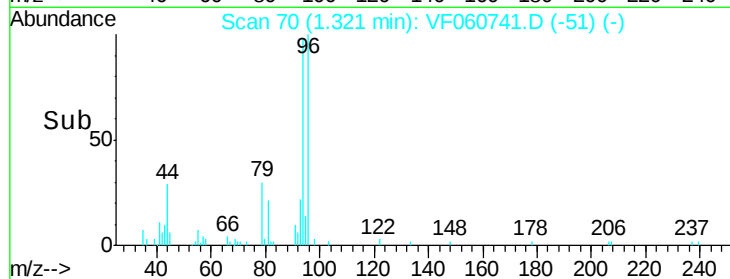
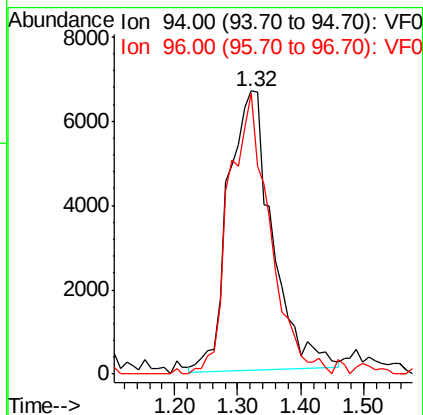
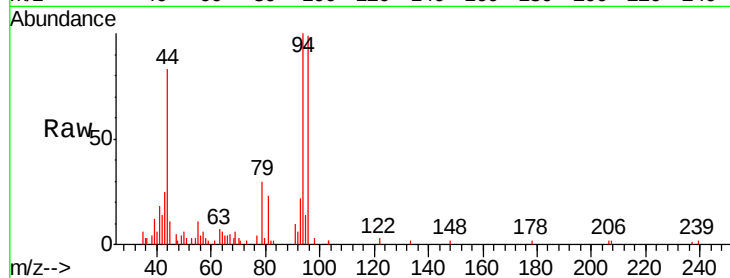
96 99.0 71.9 107.9

Manual Integrations

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#6

Chloroethane

Concen: 22.09 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.02 min

Lab File: VF060741.D

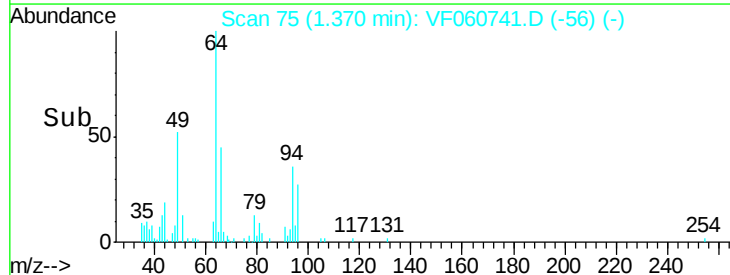
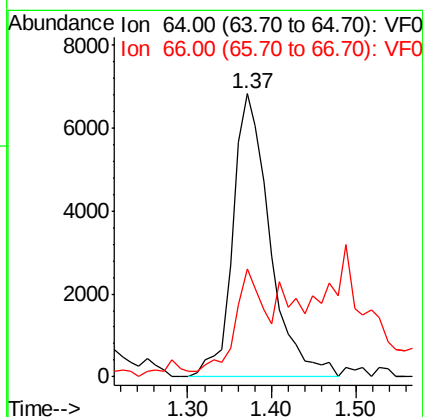
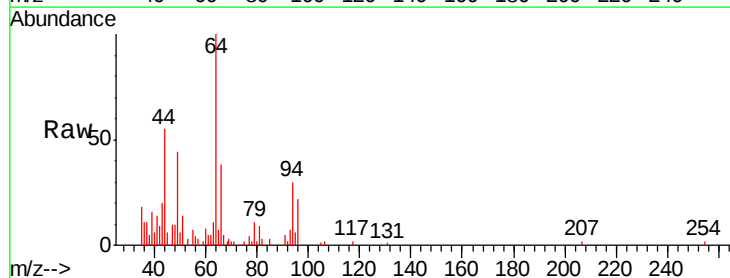
Acq: 15 Nov 2018 12:03

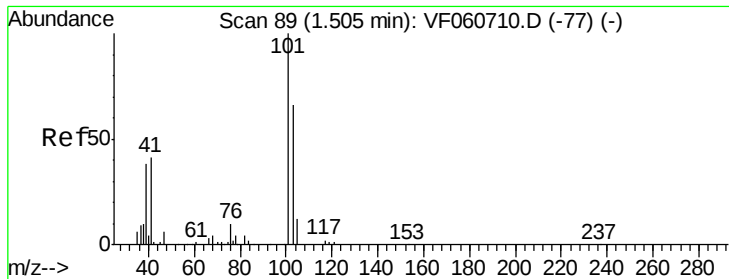
Tgt Ion: 64 Resp: 20932

Ion Ratio Lower Upper

64 100

66 38.0 24.8 37.2#





#7

Trichlorofluoromethane

Concen: 19.31 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

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ClientSampleId :

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Tgt Ion: 101 Resp: 103441

Ion Ratio Lower Upper

101 100

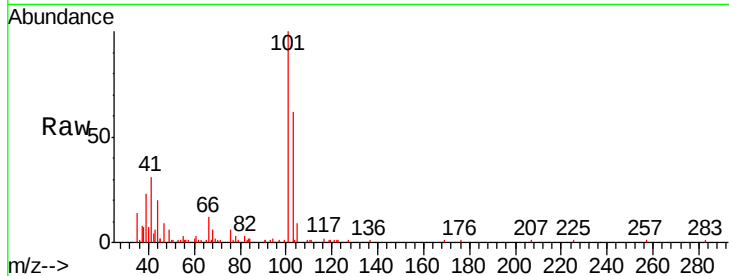
103 62.0 53.1 79.7

Manual Integrations

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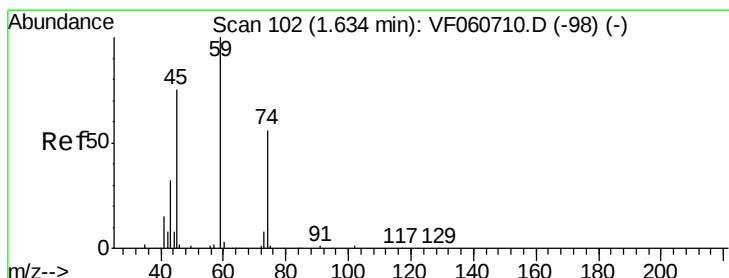
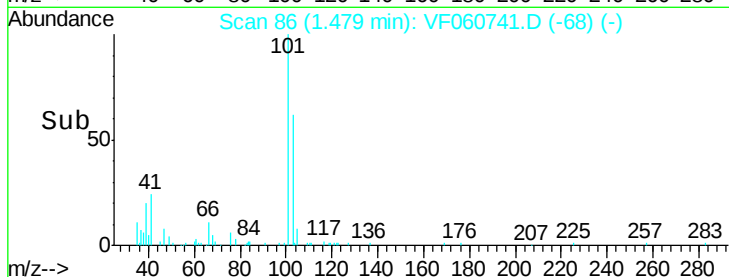
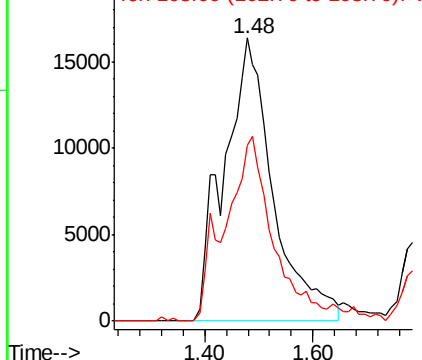
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 21.36 ug/l

RT: 1.62 min Scan# 100

Delta R.T. -0.02 min

Lab File: VF060741.D

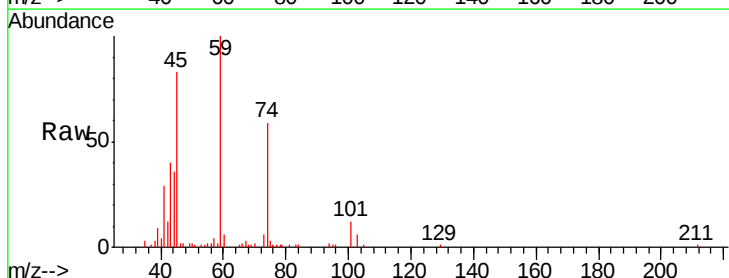
Acq: 15 Nov 2018 12:03

Tgt Ion: 74 Resp: 14660

Ion Ratio Lower Upper

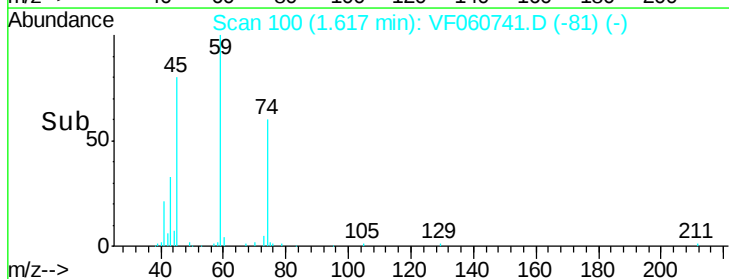
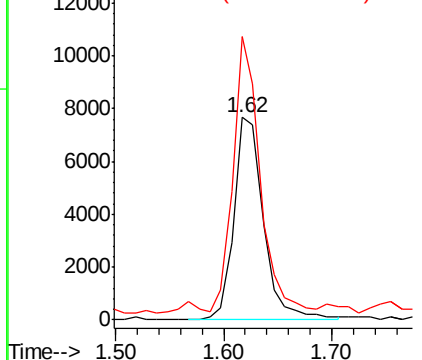
74 100

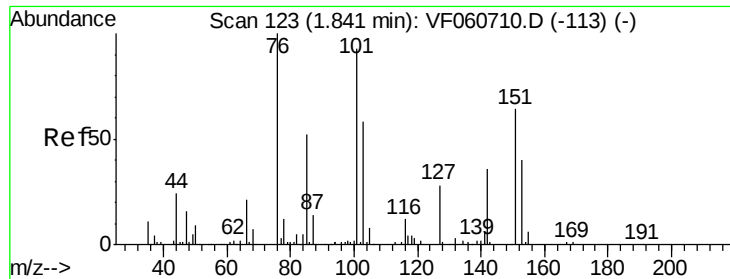
45 139.9 67.7 203.1



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.28 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

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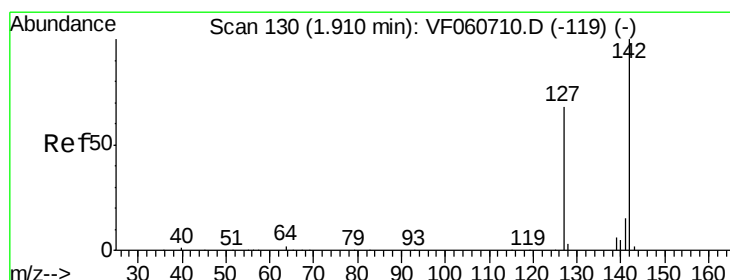
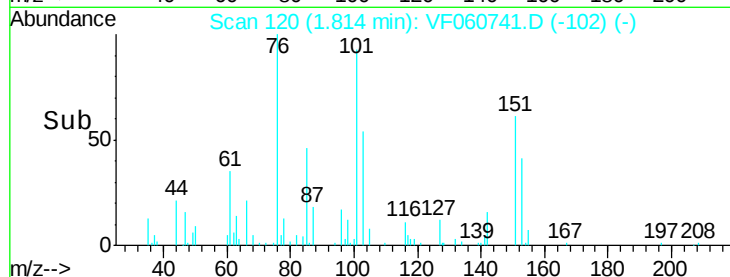
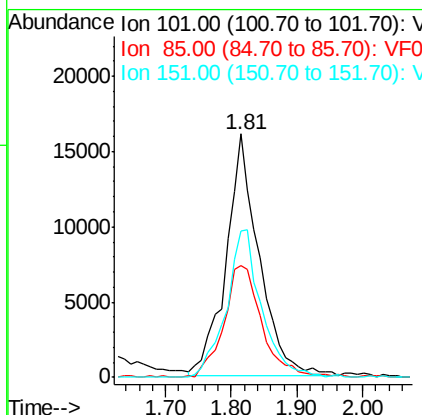
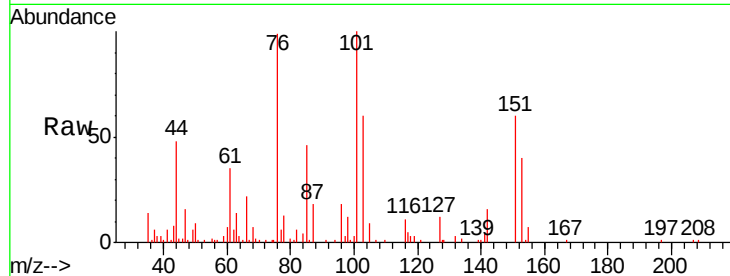
ClientSampleId :

VF1115SBS01

Tgt Ion:	101	Resp:	56236
Ion Ratio	Lower	Upper	
101	100		
85	46.0	43.6	65.4
151	60.3	53.1	79.7

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#10

Methyl Iodide

Concen: 21.46 ug/l m

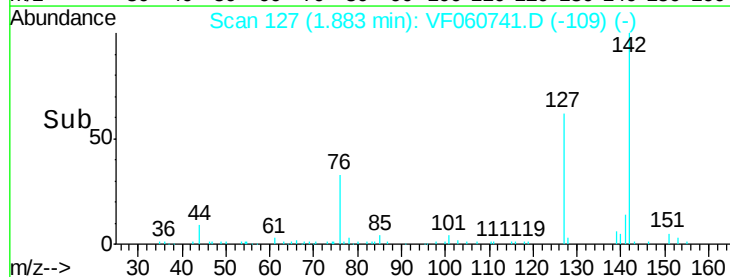
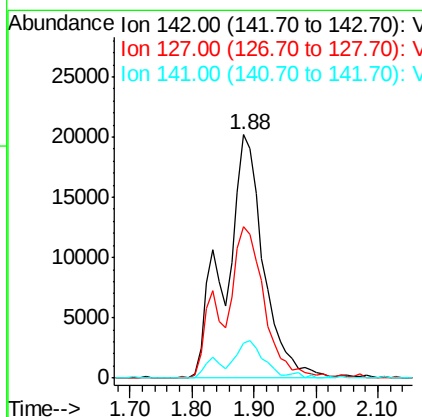
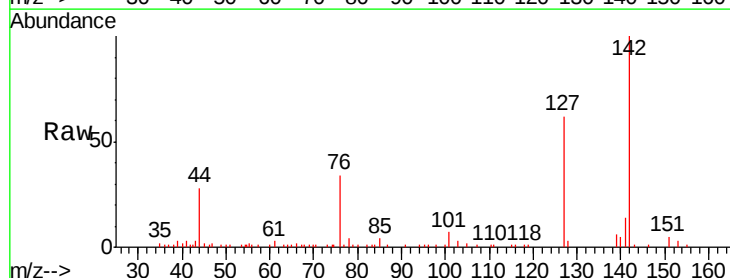
RT: 1.88 min Scan# 127

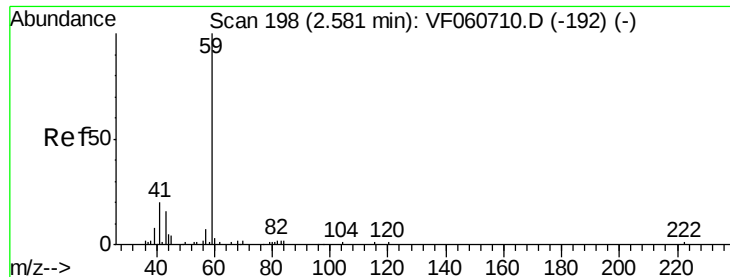
Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Tgt Ion:	142	Resp:	86911
Ion Ratio	Lower	Upper	
142	100		
127	62.4	54.0	81.0
141	14.3	12.3	18.5





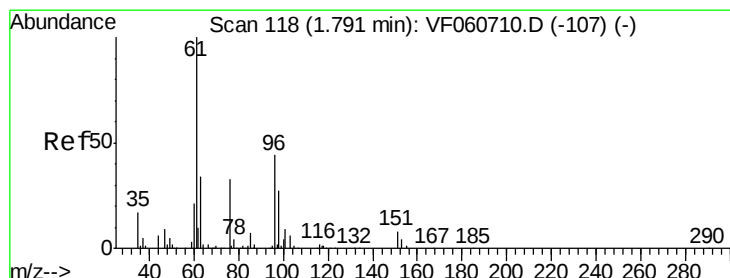
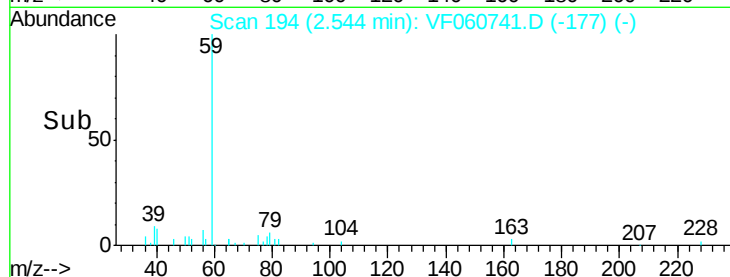
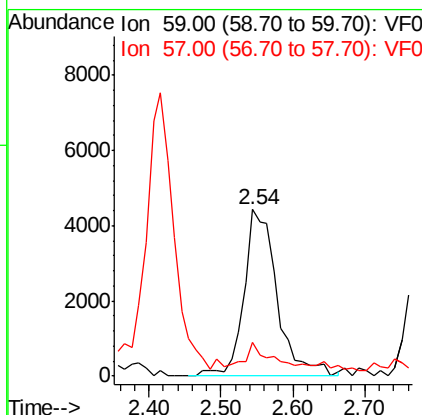
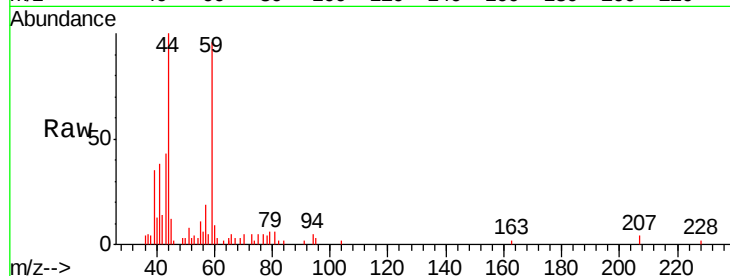
#11
Tert butyl alcohol
Concen: 112.74 ug/l
RT: 2.54 min Scan# 194
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion: 59 Resp: 14277
Ion Ratio Lower Upper
59 100
57 20.0 10.5 15.7#

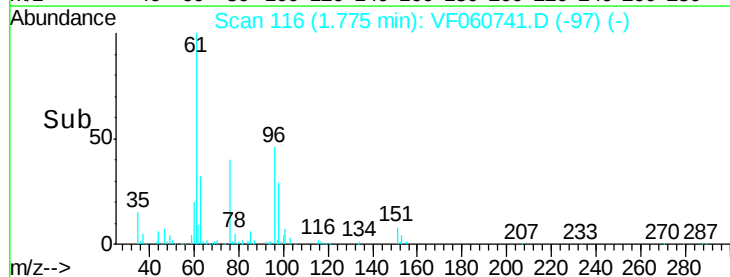
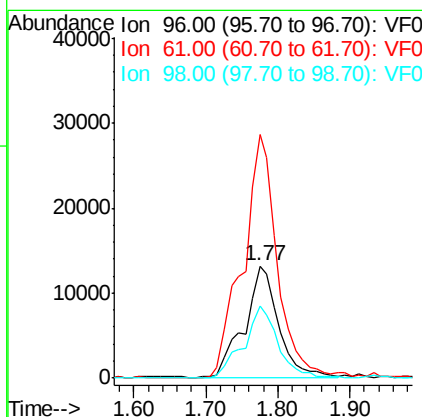
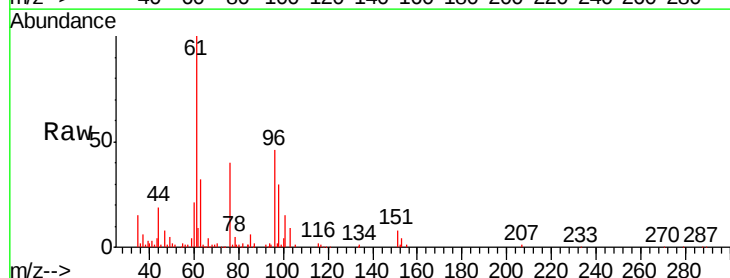
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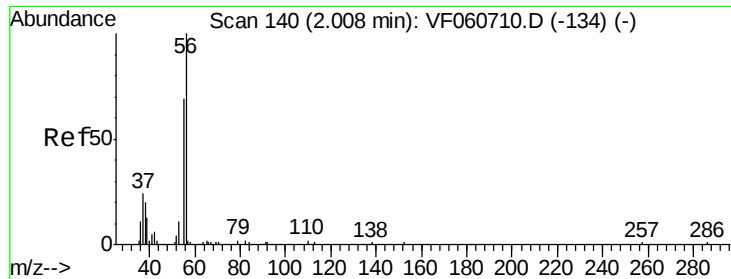
MMDadoda
11/16/2018 1:25:44 PM



#12
1,1-Dichloroethene
Concen: 22.27 ug/l
RT: 1.77 min Scan# 116
Delta R.T. -0.02 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion: 96 Resp: 44322
Ion Ratio Lower Upper
96 100
61 216.7 182.2 273.2
98 64.4 49.2 73.8





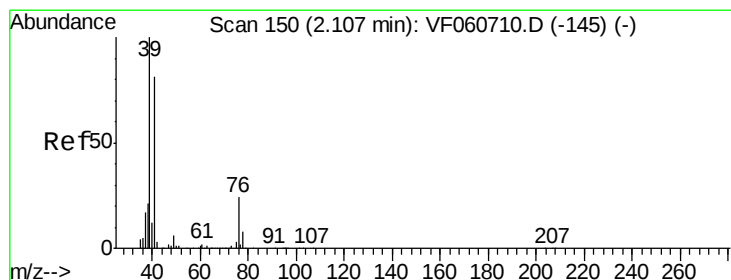
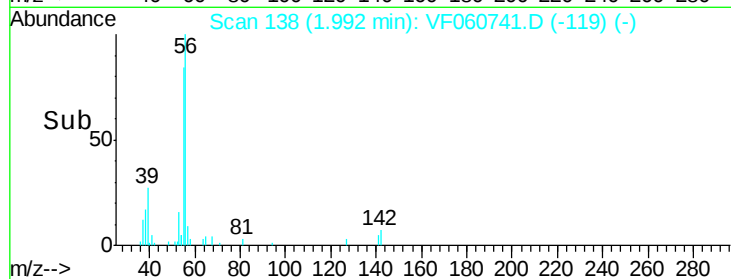
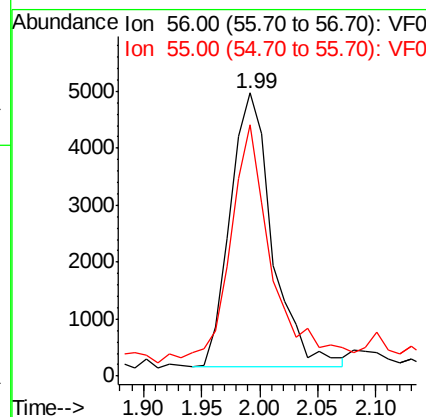
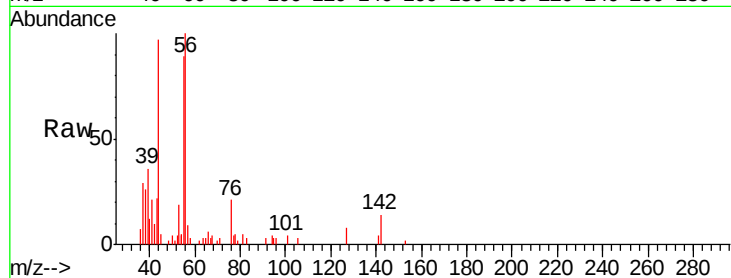
#13
Acrolein
Concen: 103.99 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.02 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion	Ratio	Lower	Upper
56	100		
55	88.8	56.6	85.0#

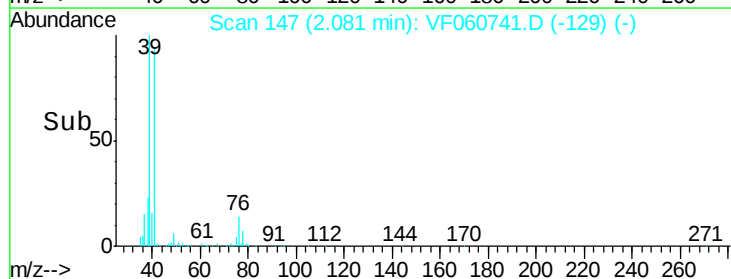
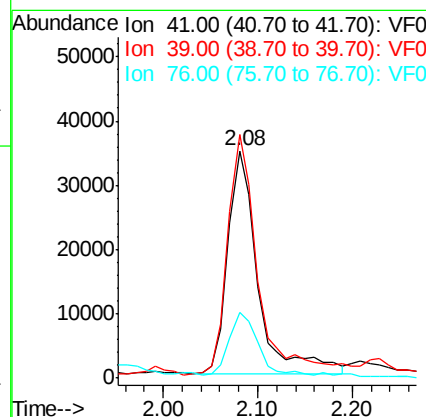
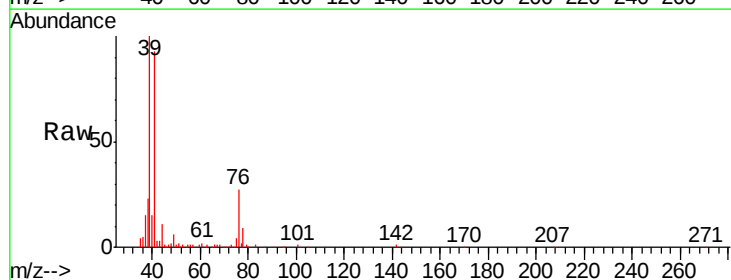
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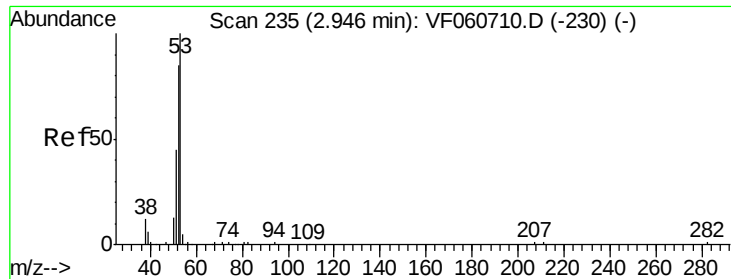
MMDadoda
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#14
Allyl chloride
Concen: 22.16 ug/l
RT: 2.08 min Scan# 147
Delta R.T. -0.03 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Lower	Upper
41	100		
39	107.1	98.5	147.7
76	29.0	24.5	36.7





#15

Acrylonitrile

Concen: 114.08 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

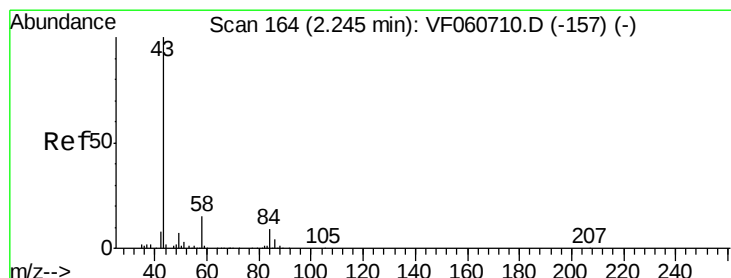
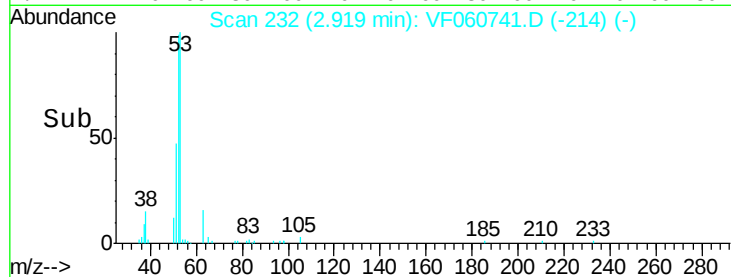
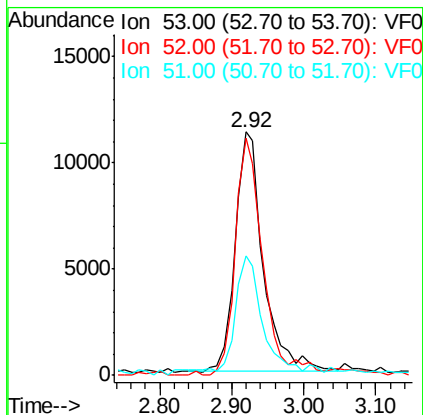
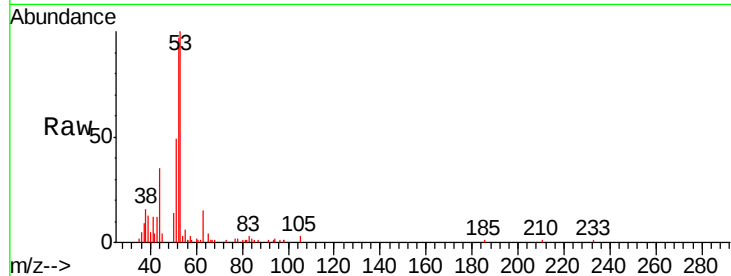
ClientSampleId :

VF1115SBS01

Tgt Ion:	53	Resp:	30786
Ion	Ratio	Lower	Upper
53	100		
52	97.3	68.8	103.2
51	49.1	36.7	55.1

Manual Integrations
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#16

Acetone

Concen: 99.75 ug/l

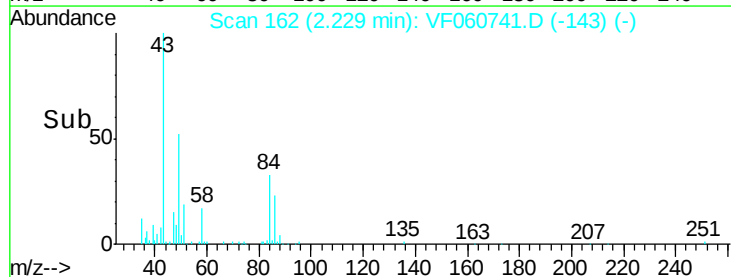
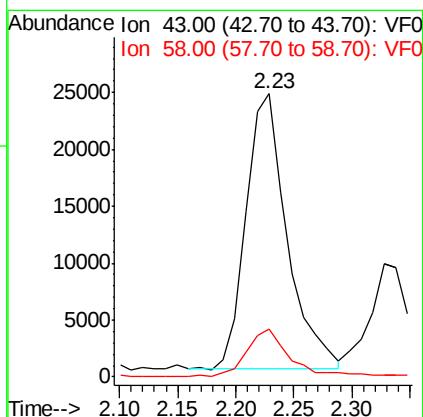
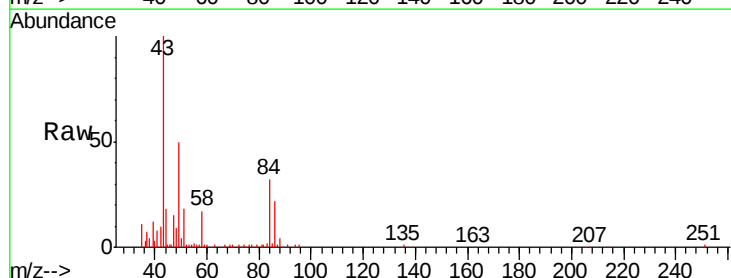
RT: 2.23 min Scan# 162

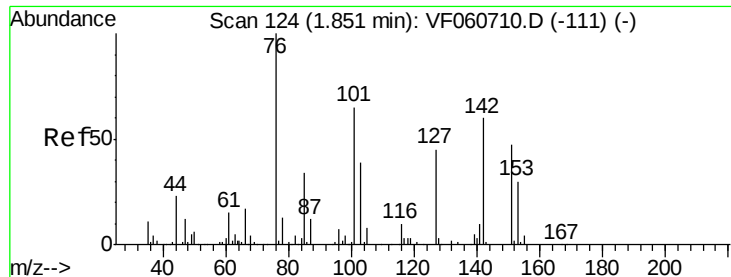
Delta R.T. -0.02 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Tgt Ion:	43	Resp:	59326
Ion	Ratio	Lower	Upper
43	100		
58	16.7	11.6	17.4





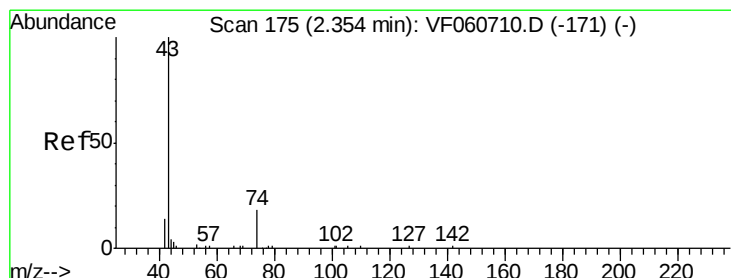
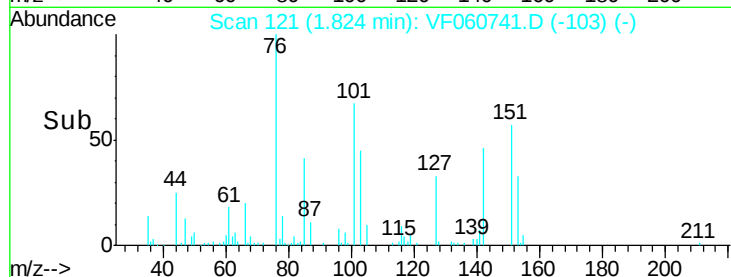
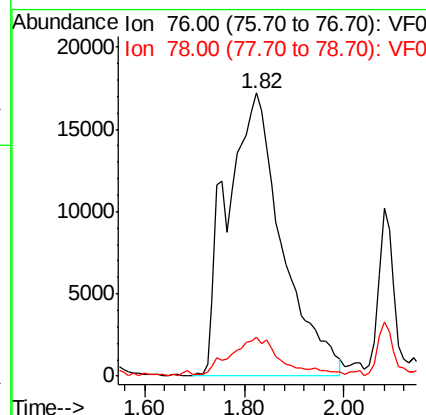
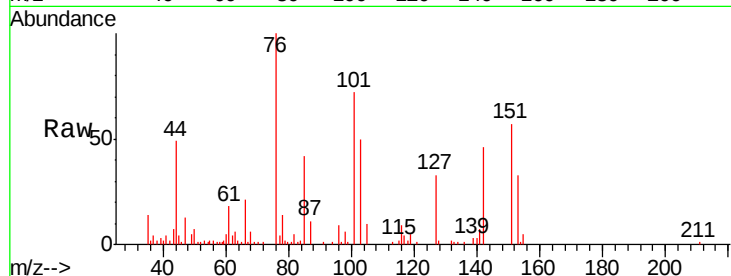
#17
Carbon Disulfide
Concen: 21.96 ug/l m
RT: 1.82 min Scan# 121
Delta R.T. -0.03 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion: 76 Resp: 132082
Ion Ratio Lower Upper
76 100
78 13.6 10.5 15.7

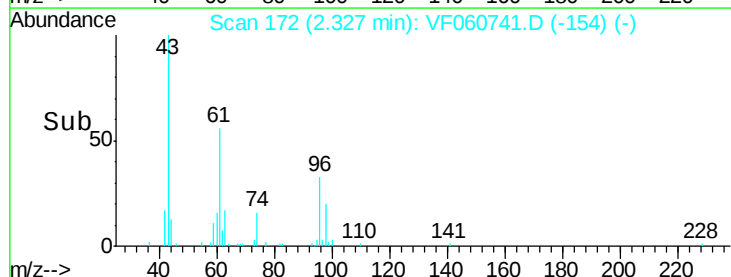
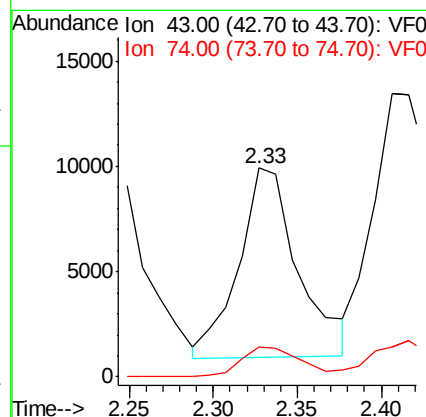
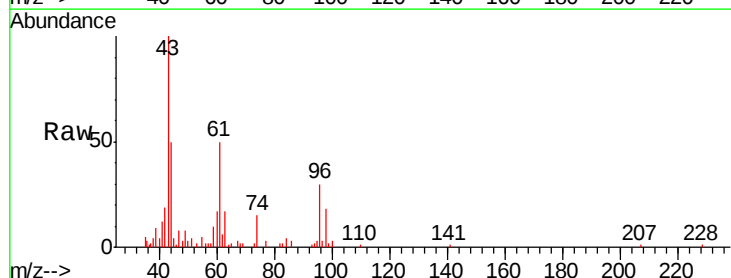
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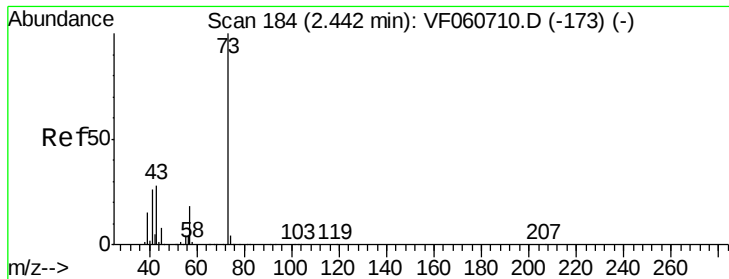
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#18
Methyl Acetate
Concen: 22.58 ug/l
RT: 2.33 min Scan# 172
Delta R.T. -0.03 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion: 43 Resp: 22051
Ion Ratio Lower Upper
43 100
74 14.6 11.8 17.8





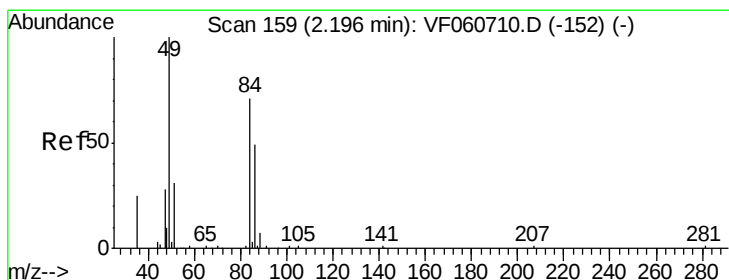
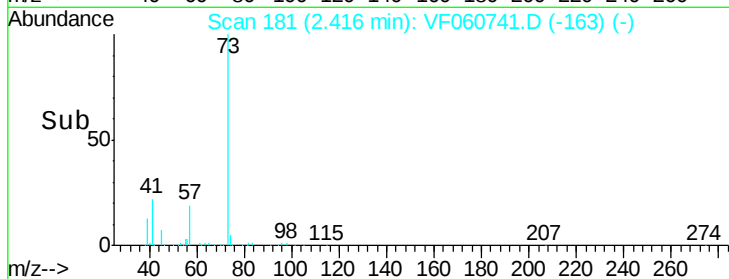
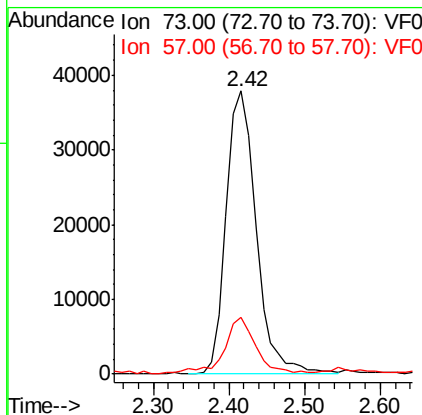
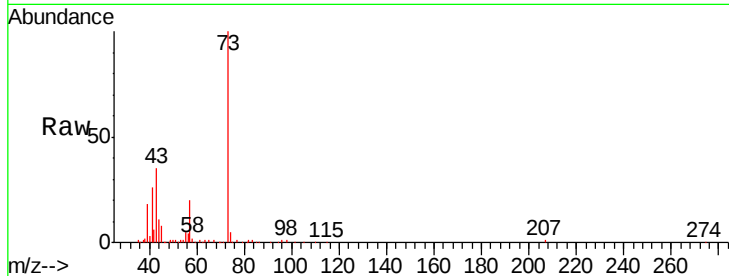
#19
Methyl tert-butyl Ether
Concen: 21.92 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.03 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion: 73 Resp: 104653
Ion Ratio Lower Upper
73 100
57 19.9 14.3 21.5

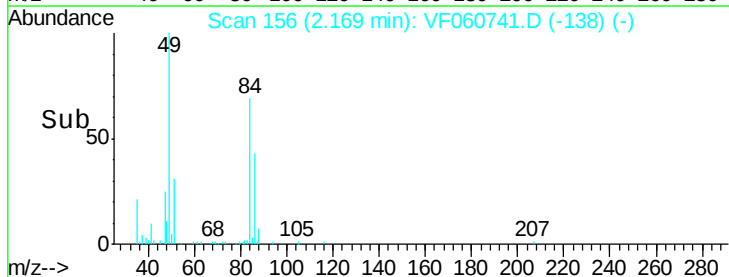
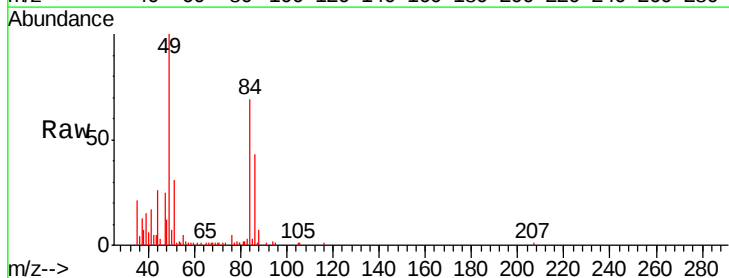
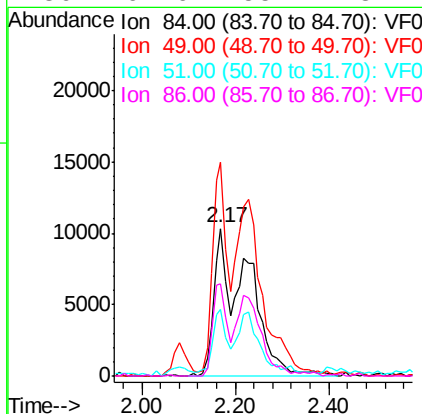
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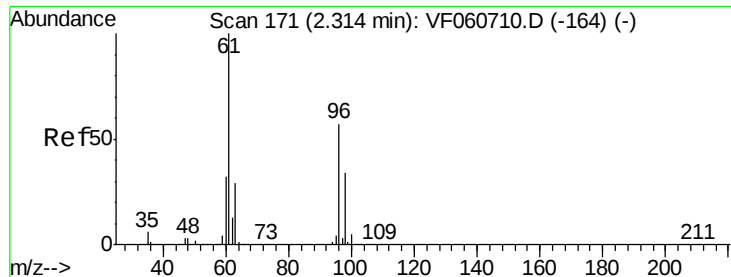
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#20
Methylene Chloride
Concen: 24.92 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.03 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion: 84 Resp: 52102
Ion Ratio Lower Upper
84 100
49 145.0 120.2 180.4
51 45.3 37.2 55.8
86 62.6 55.1 82.7





#21

trans-1,2-Dichloroethene

Concen: 22.63 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

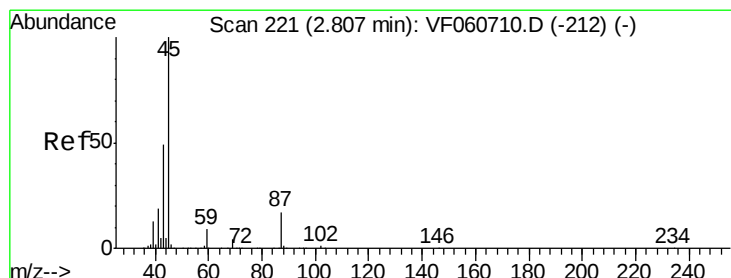
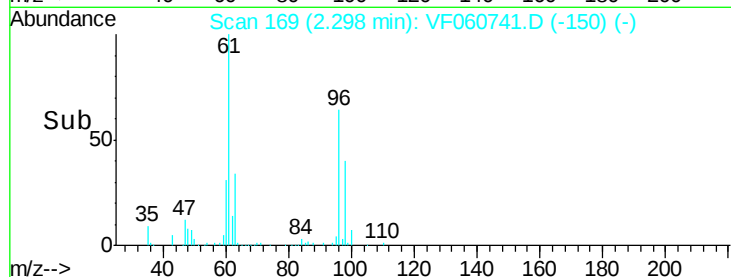
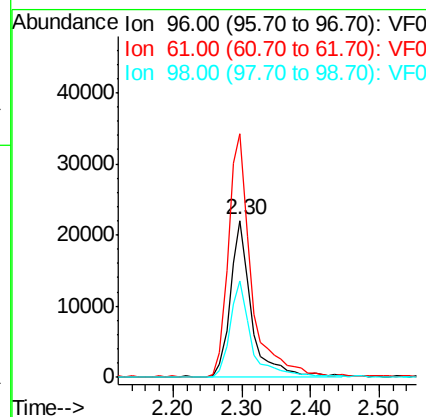
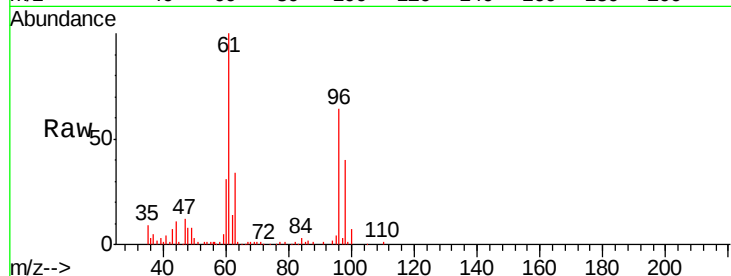
ClientSampleId :

VF1115SBS01

Tgt Ion:	96	Resp:	47054
Ion	Ratio	Lower	Upper
96	100		
61	155.5	141.6	212.4
98	61.9	47.4	71.0

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#22

Diisopropyl ether

Concen: 22.49 ug/l

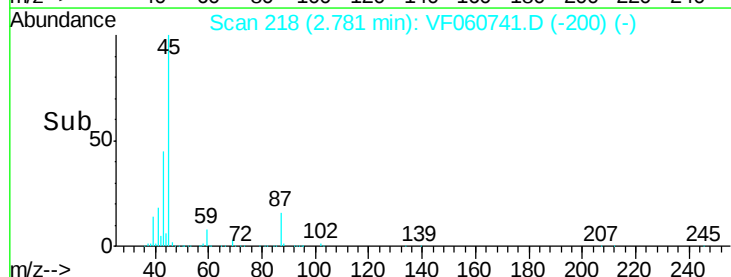
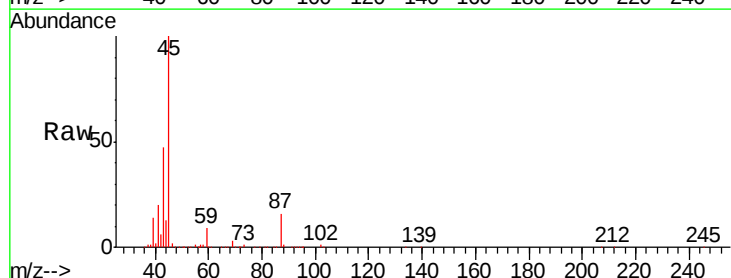
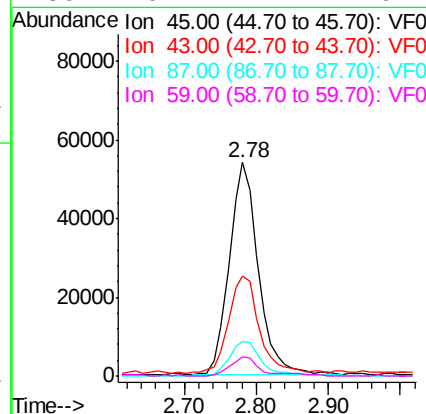
RT: 2.78 min Scan# 218

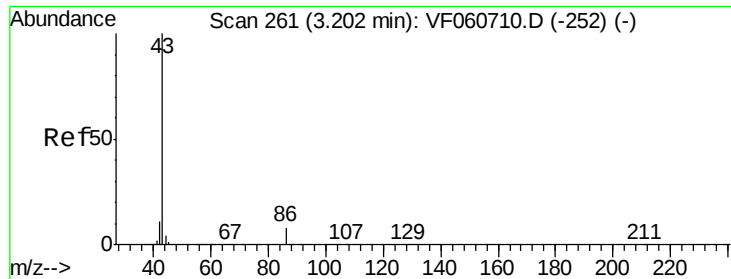
Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Tgt Ion:	45	Resp:	151426
Ion	Ratio	Lower	Upper
45	100		
43	46.7	39.9	59.9
87	16.2	13.9	20.9
59	9.2	7.1	10.7





#23

Vinyl Acetate

Concen: 115.01 ug/l

RT: 3.17 min Scan# 257

Delta R.T. -0.04 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBS01

Tgt Ion: 43 Resp: 364589

Ion Ratio Lower Upper

43 100

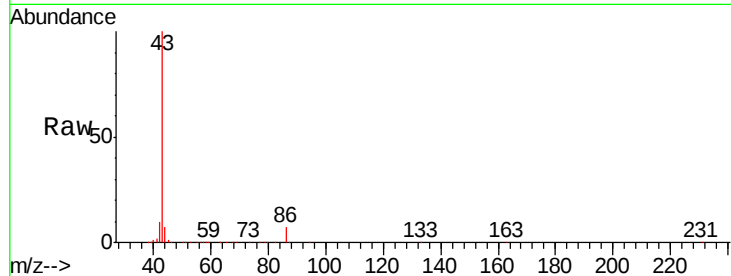
86 7.0 6.4 9.6

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

150000

100000

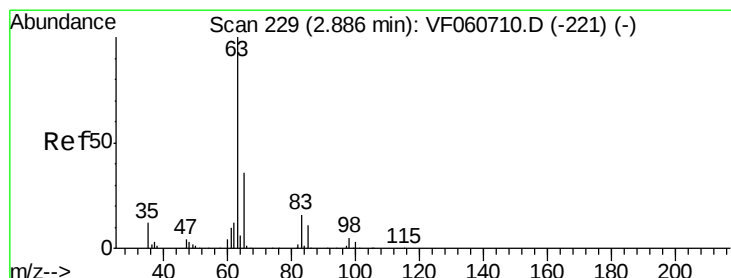
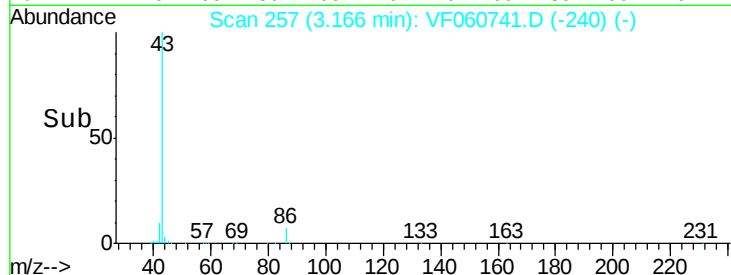
50000

0

3.17

3.00 3.10 3.20 3.30

Time-->



#24

1,1-Dichloroethane

Concen: 22.27 ug/l

RT: 2.85 min Scan# 225

Delta R.T. -0.04 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

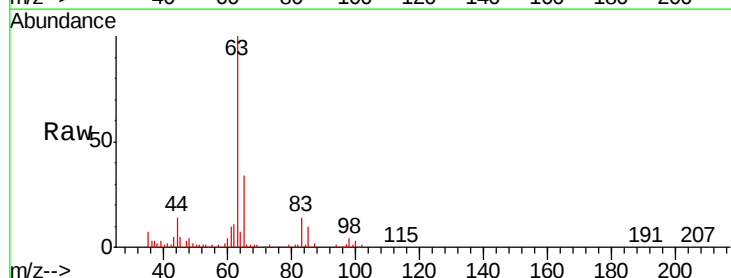
Tgt Ion: 63 Resp: 90760

Ion Ratio Lower Upper

63 100

98 4.5 2.4 7.1

100 2.9 1.4 4.2



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

40000

30000

20000

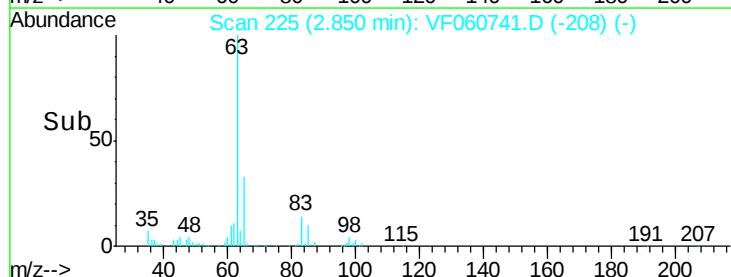
10000

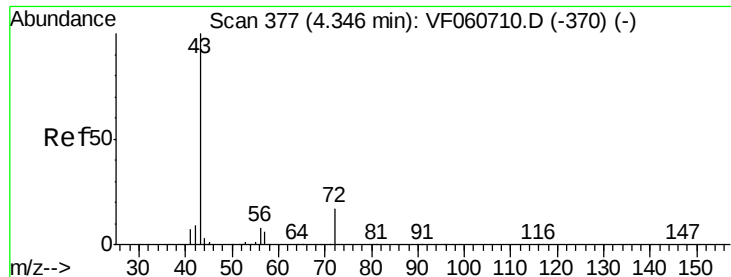
0

2.85

2.70 2.80 2.90 3.00 3.10

Time-->





#25

2-Butanone

Concen: 109.65 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.04 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBS01

Tgt Ion: 43 Resp: 107267

Ion Ratio Lower Upper

43 100

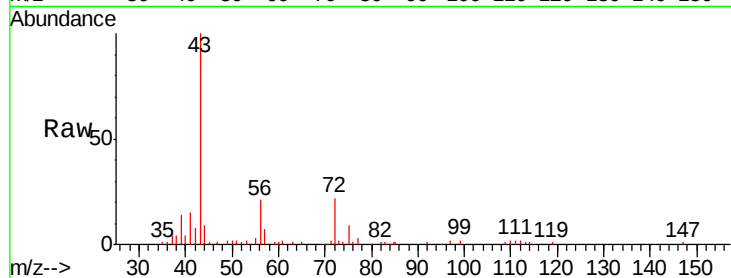
72 21.6 16.1 24.1

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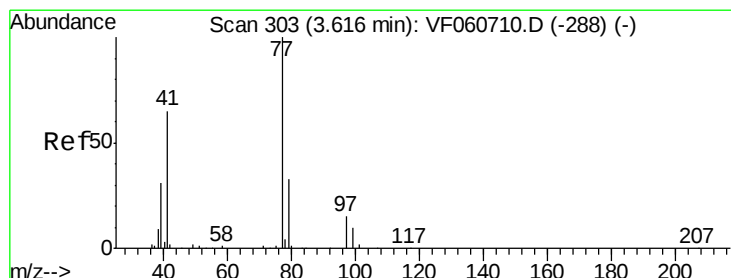
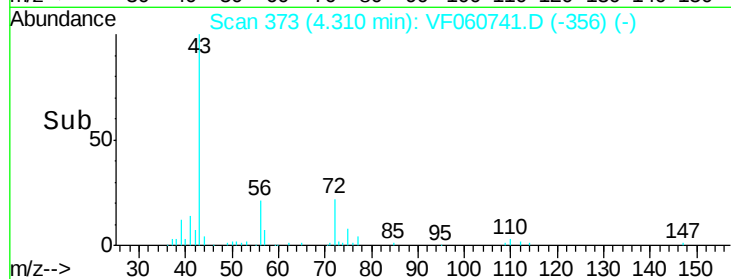
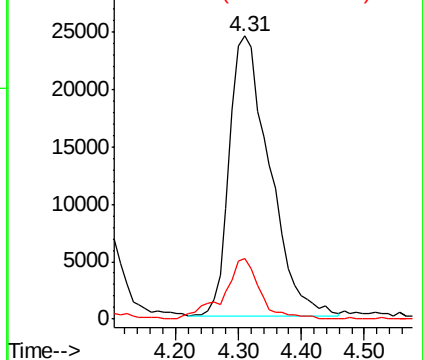
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 19.78 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.04 min

Lab File: VF060741.D

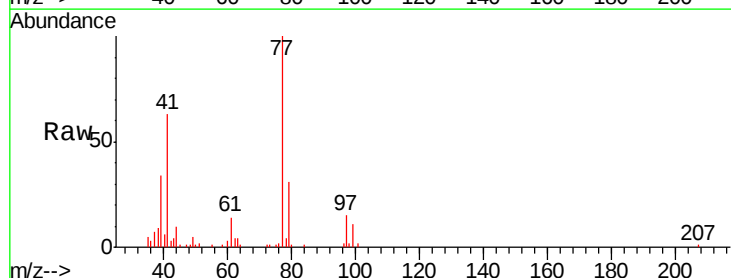
Acq: 15 Nov 2018 12:03

Tgt Ion: 77 Resp: 63447

Ion Ratio Lower Upper

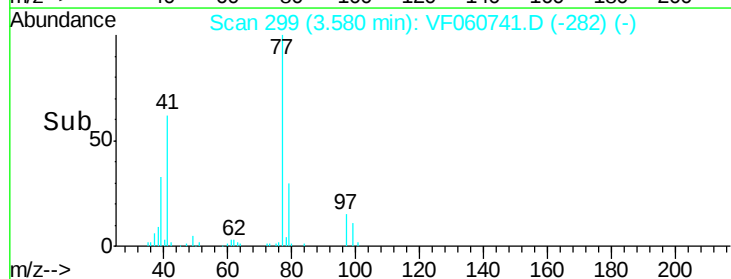
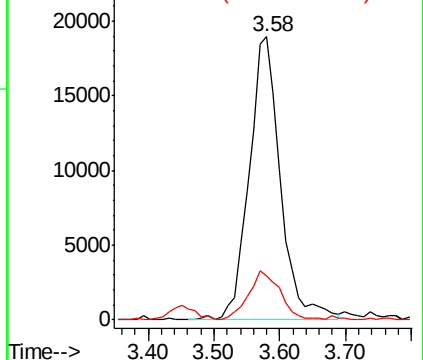
77 100

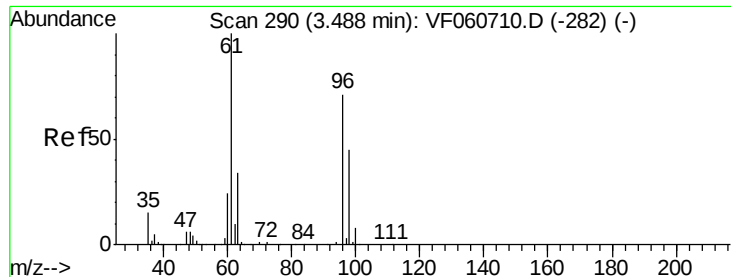
97 15.5 8.8 26.5



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

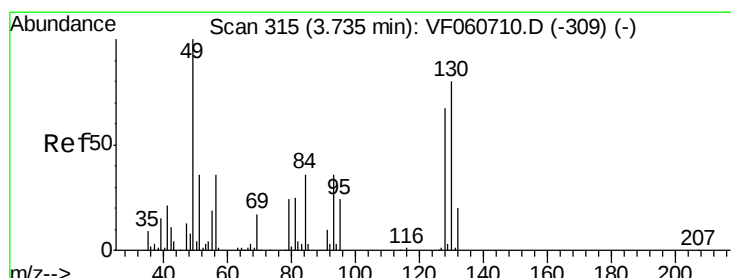
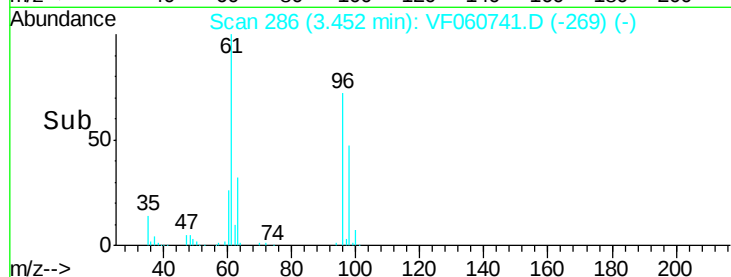
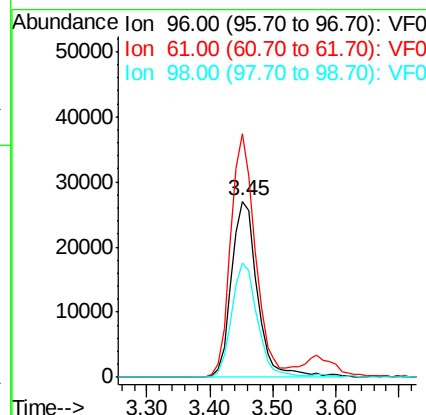
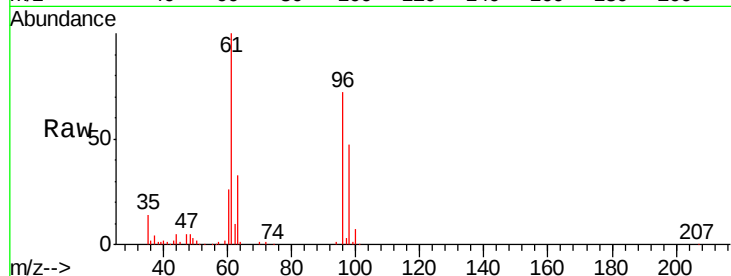
cis-1,2-Dichloroethene
 Concen: 21.86 ug/l
 RT: 3.45 min Scan# 286
 Delta R.T. -0.04 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBS01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	138.5	0.0	280.6
98	65.1	0.0	127.6

Manual Integrations
 APPROVED

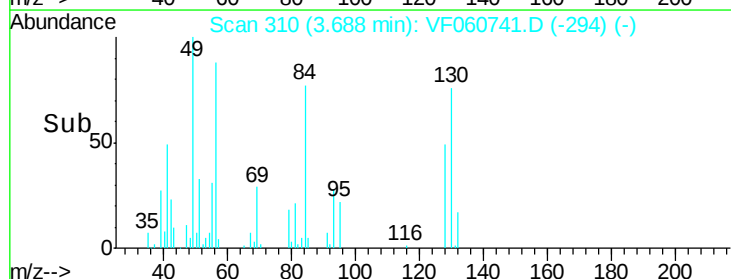
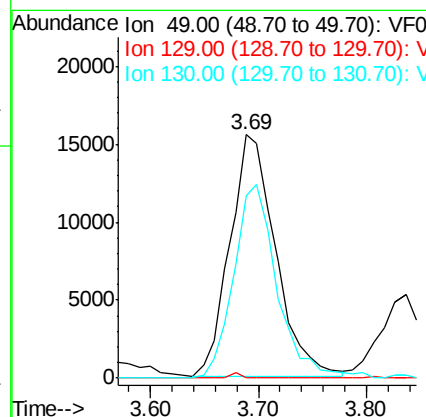
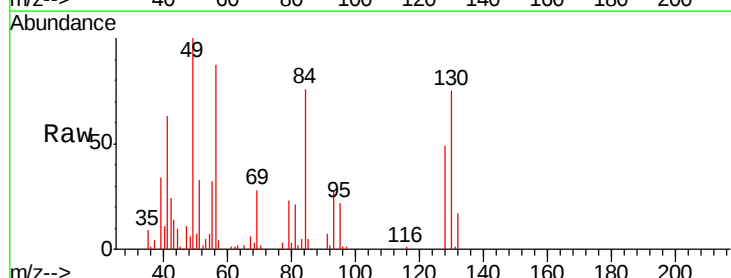
MMDadoda
 11/16/2018 1:25:44 PM

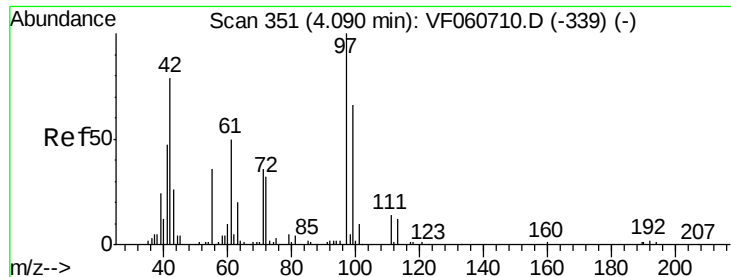


#28

Bromochloromethane
 Concen: 21.56 ug/l
 RT: 3.69 min Scan# 310
 Delta R.T. -0.05 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.2
130	75.1	63.9	95.9





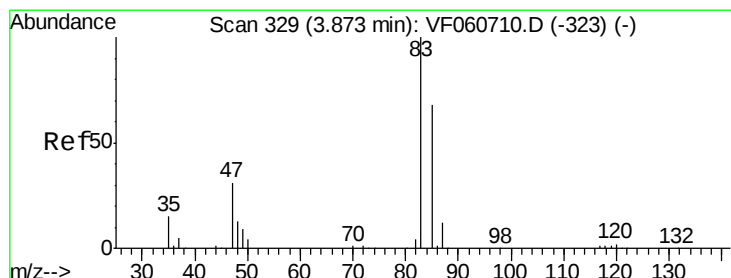
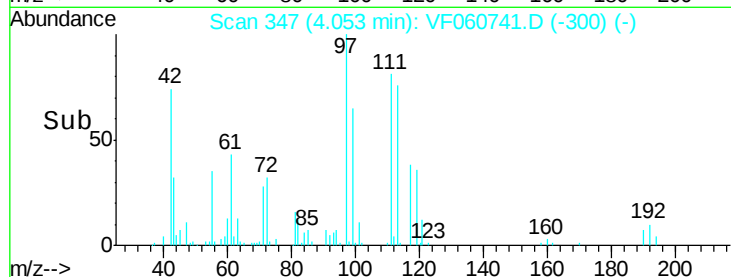
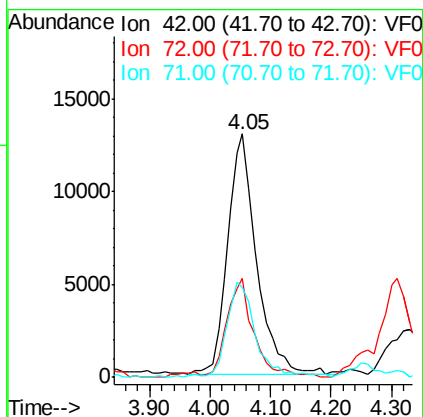
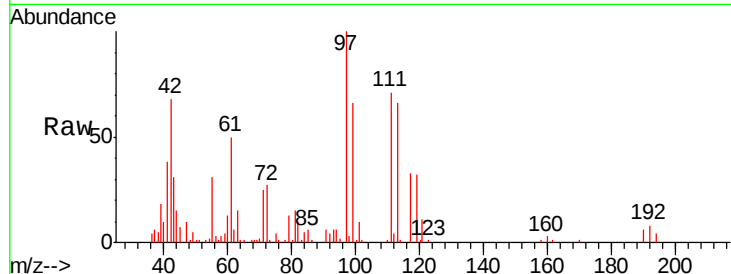
#29
Tetrahydrofuran
Concen: 106.51 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	38.3	30.3	45.5
71	39.8	32.2	48.2

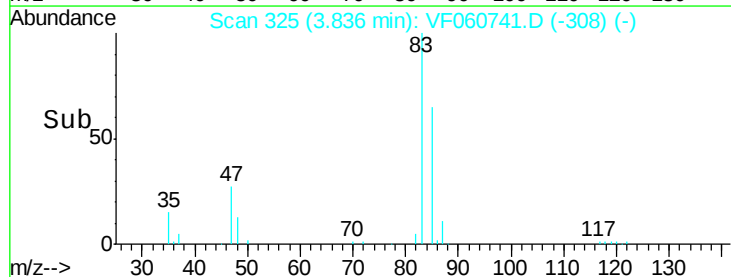
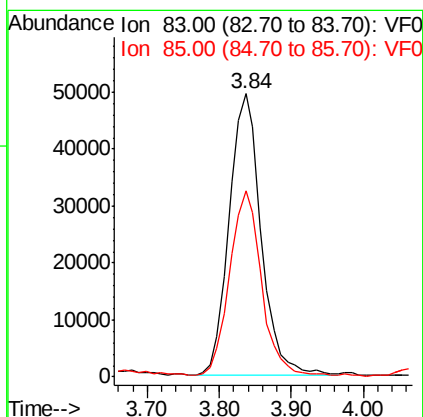
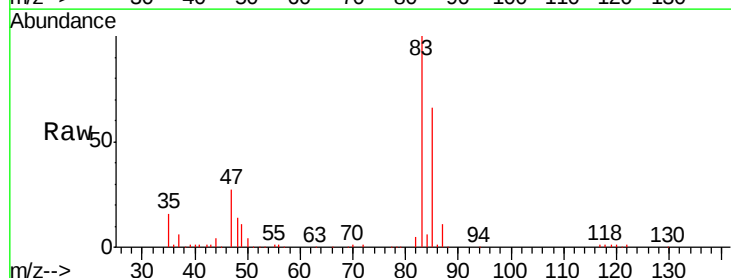
Manual Integrations
APPROVED

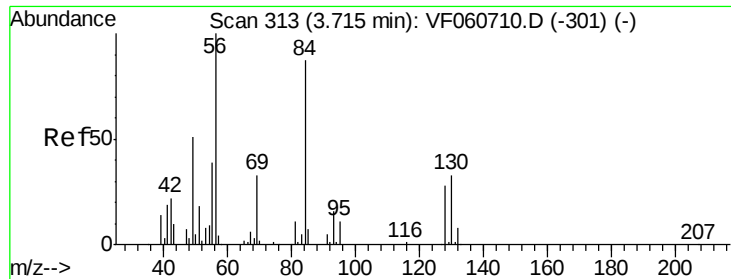
MMDadoda
11/16/2018 1:25:44 PM



#30
Chloroform
Concen: 23.30 ug/l
RT: 3.84 min Scan# 325
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	54.6	82.0





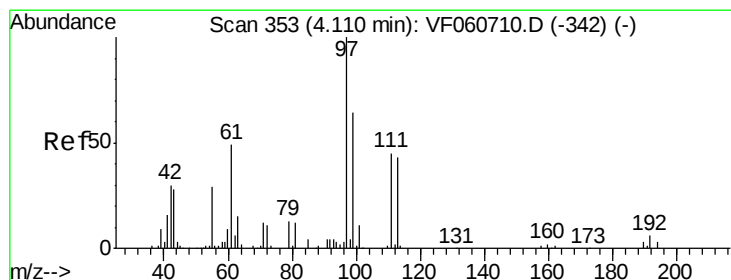
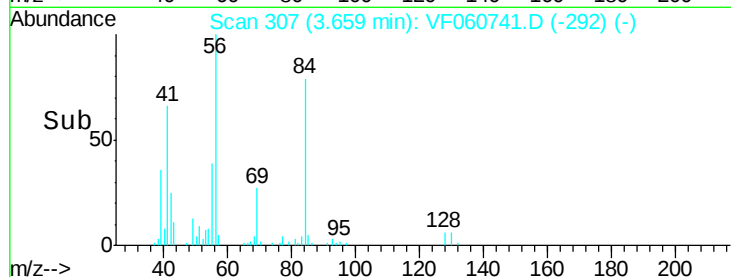
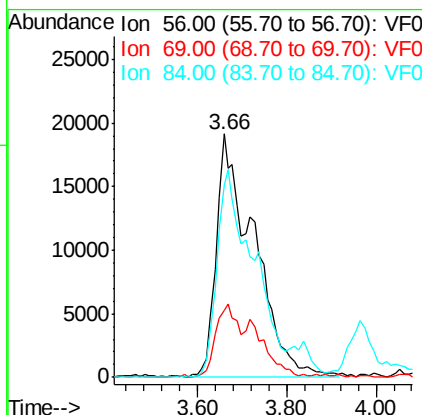
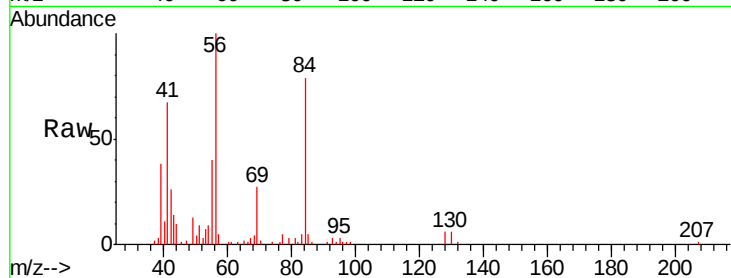
#31
Cyclohexane
Concen: 22.61 ug/l m
RT: 3.66 min Scan# 307
Delta R.T. -0.06 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion	Ratio	Lower	Upper
56	100		
69	27.5	26.0	39.0
84	79.1	69.4	104.2

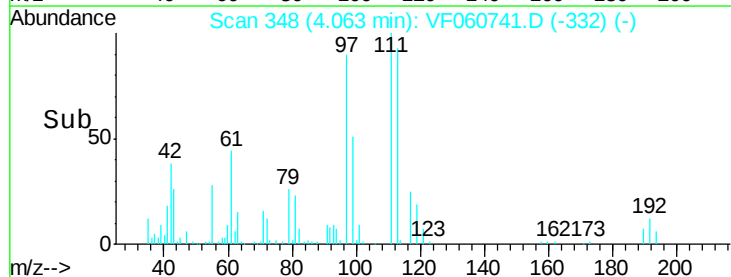
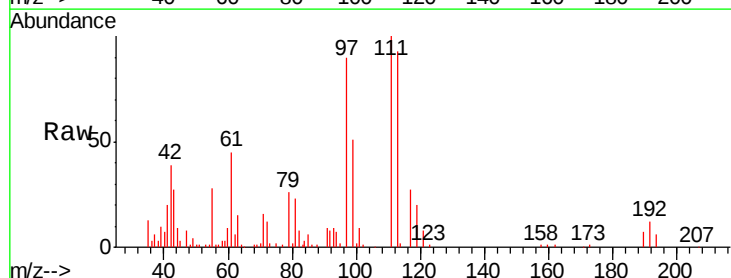
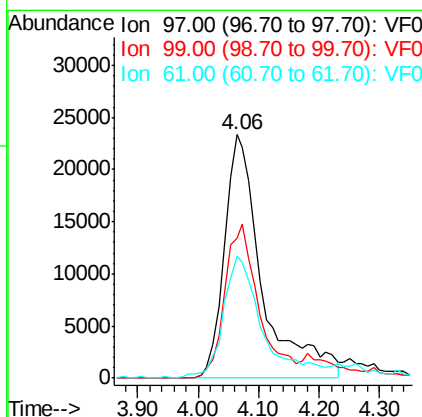
Manual Integrations
APPROVED

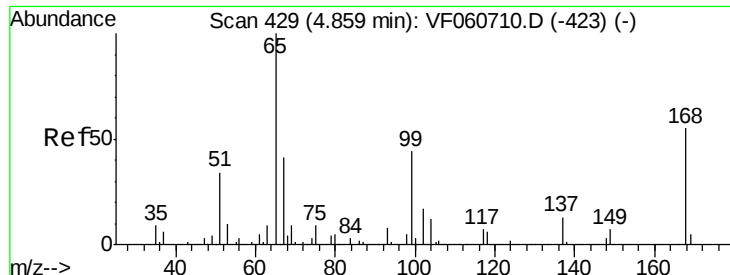
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 19.82 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.05 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	57.3	51.1	76.7
61	50.1	40.1	60.1





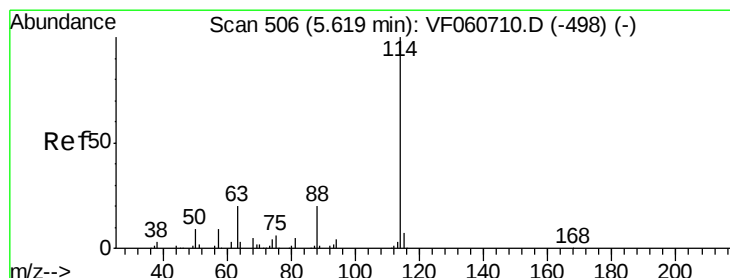
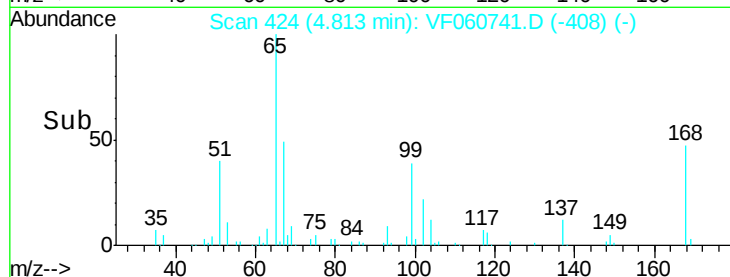
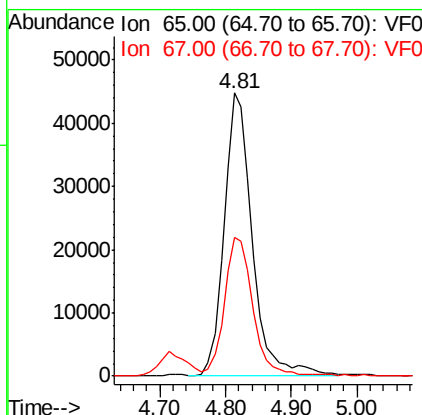
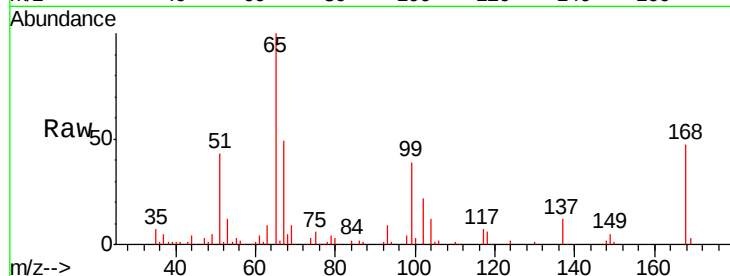
#33
 1,2-Dichloroethane-d4
 Concen: 47.62 ug/l
 RT: 4.81 min Scan# 424
 Delta R.T. -0.05 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	132499		
67	49.2	0.0	90.2	

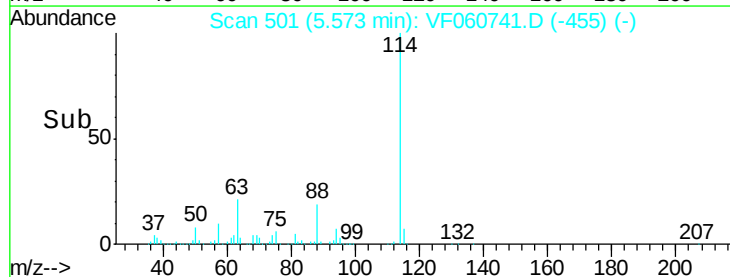
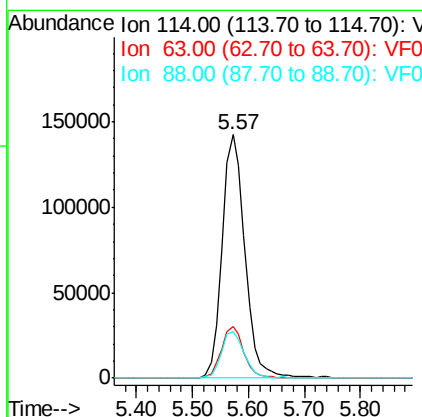
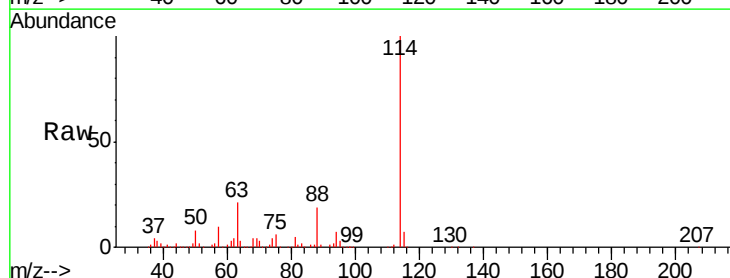
Manual Integrations
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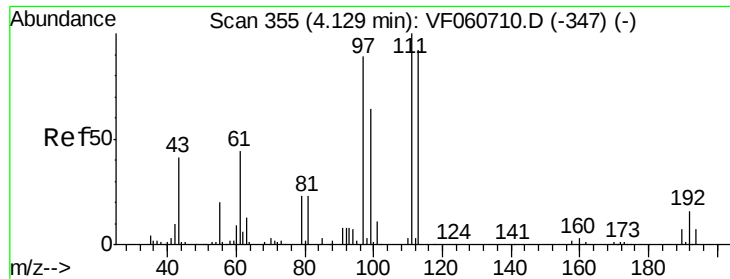
MMDadoda
 11/16/2018 1:25:44 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.57 min Scan# 501
 Delta R.T. -0.05 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	403552		
63	21.1	0.0	40.8	
88	19.2	0.0	39.6	





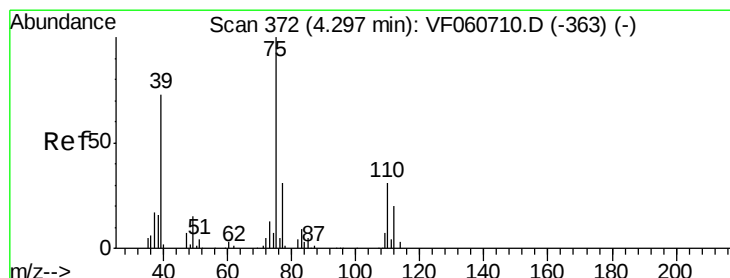
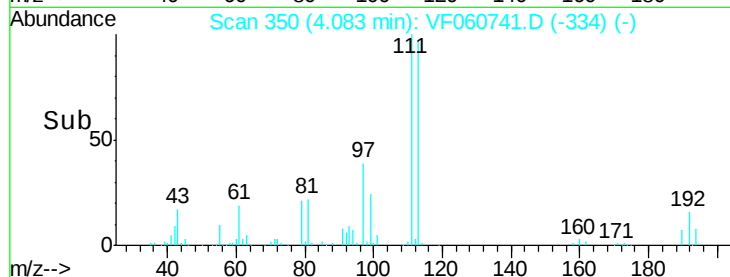
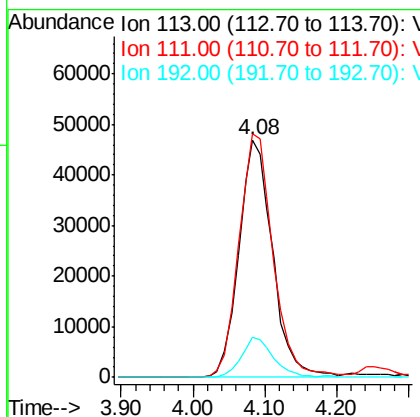
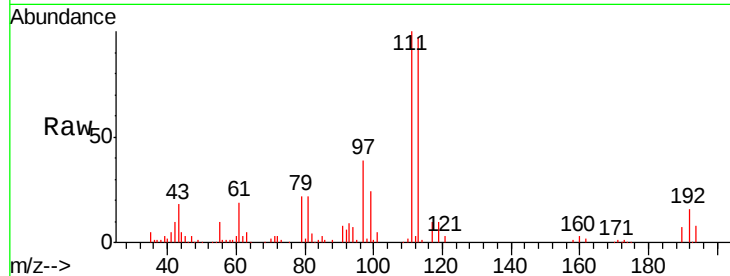
#35
Dibromofluoromethane
Concen: 50.15 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.05 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	152138		
111	102.6	87.1	130.7	
192	16.8	13.8	20.6	

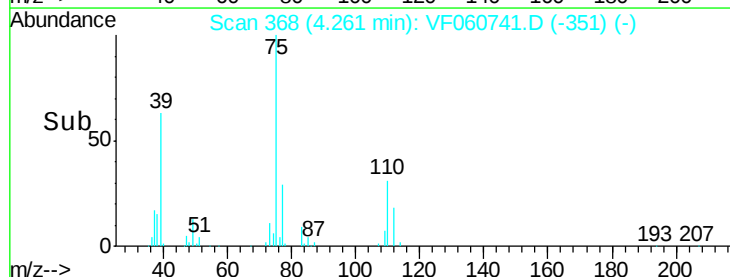
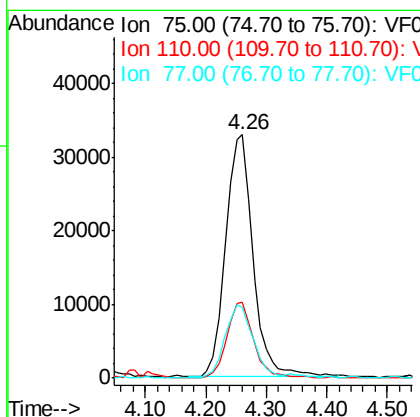
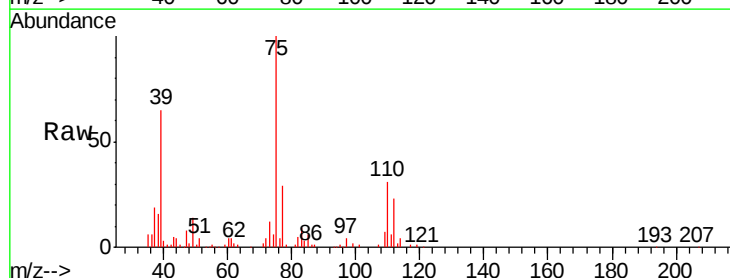
Manual Integrations
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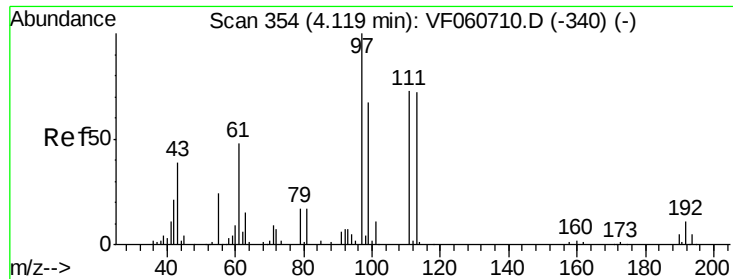
MMDadoda
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#36
1,1-Dichloropropene
Concen: 22.17 ug/l
RT: 4.26 min Scan# 368
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	103755		
110	31.1	15.6	46.8	
77	29.2	25.0	37.6	





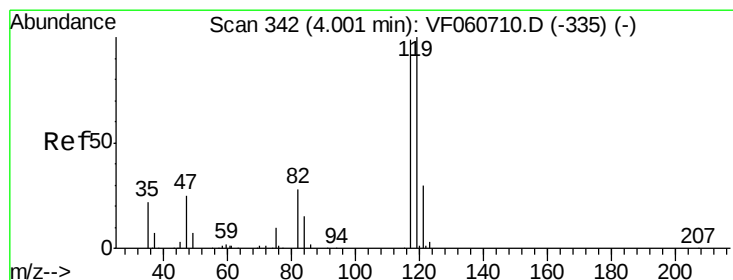
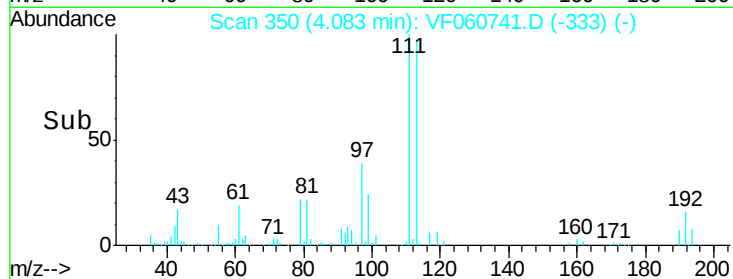
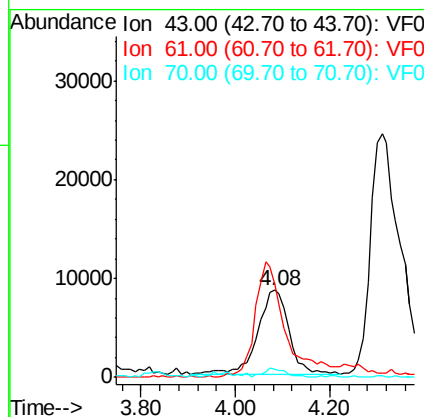
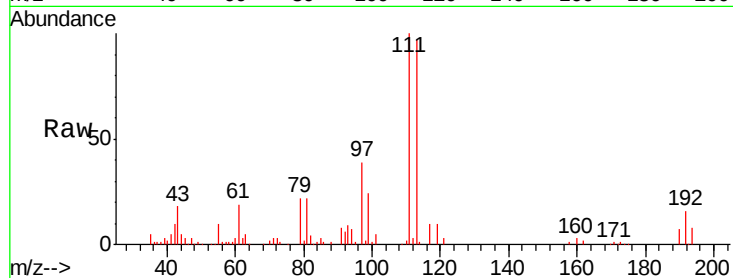
#37
Ethyl Acetate
Concen: 22.83 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	105.9	98.5	147.7
70	9.3	7.4	11.0

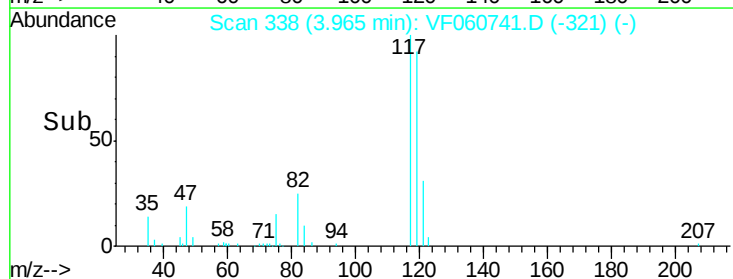
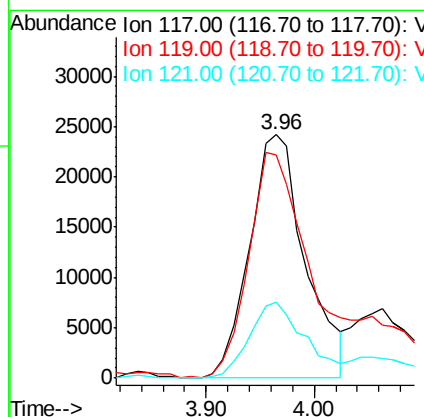
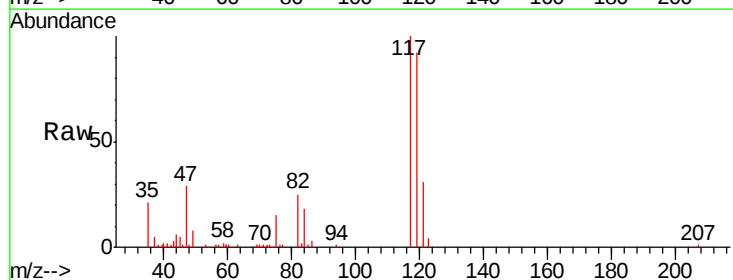
Manual Integrations
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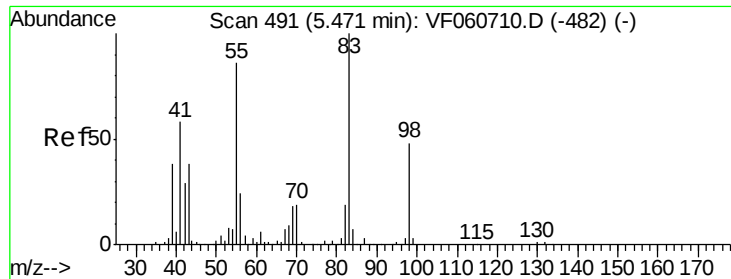
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#38
Carbon Tetrachloride
Concen: 19.11 ug/l
RT: 3.96 min Scan# 338
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.8	80.7	121.1
121	31.4	24.3	36.5





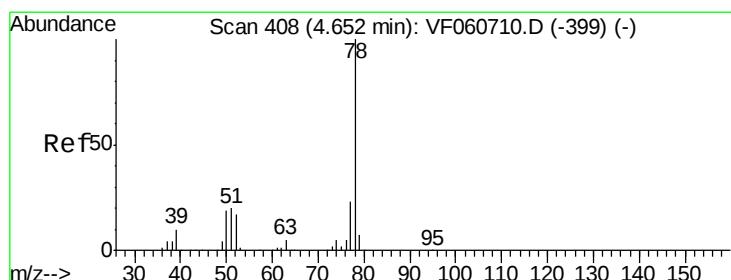
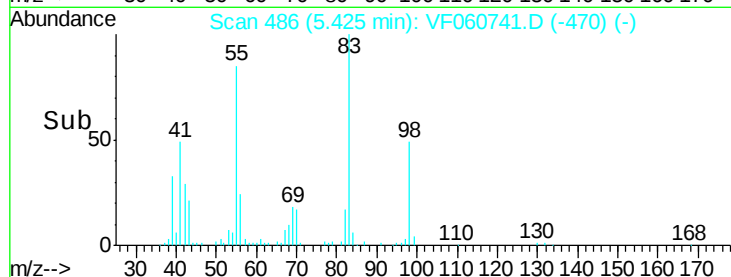
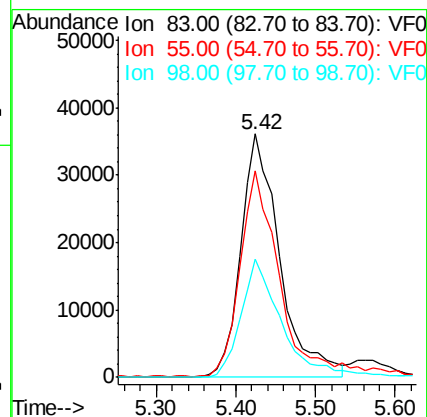
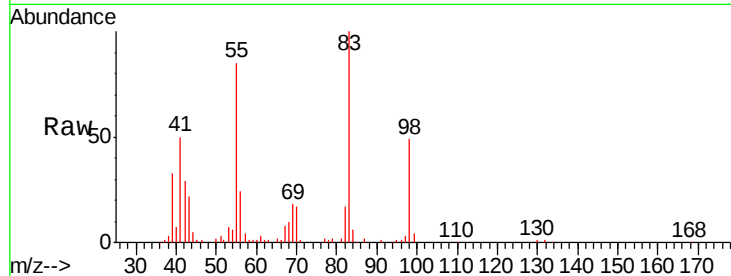
#39
Methylcyclohexane
Concen: 22.50 ug/l
RT: 5.42 min Scan# 486
Delta R.T. -0.05 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	122186		
55	85.0	69.0	103.4	
98	48.8	38.5	57.7	

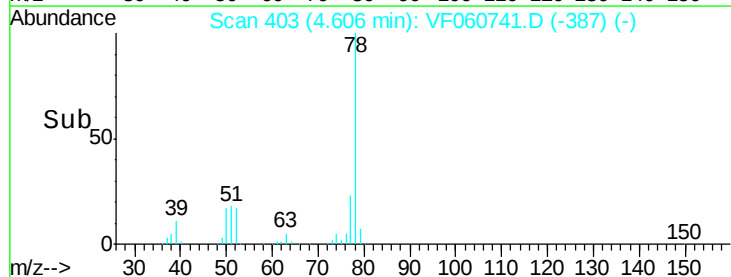
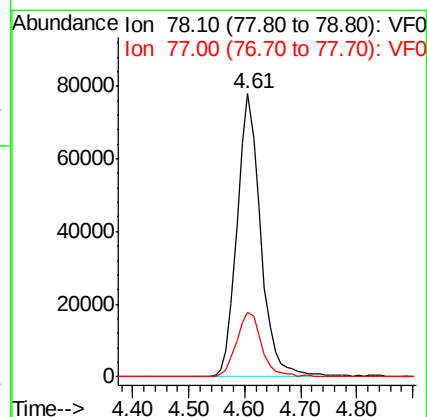
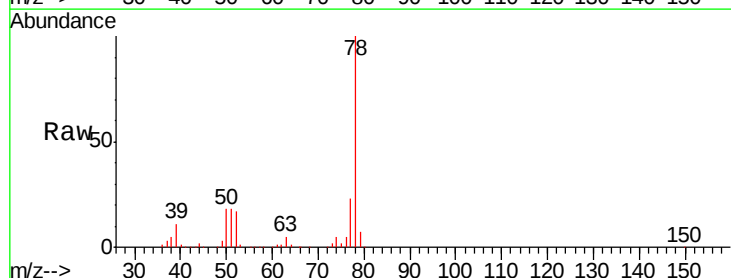
Manual Integrations
APPROVED

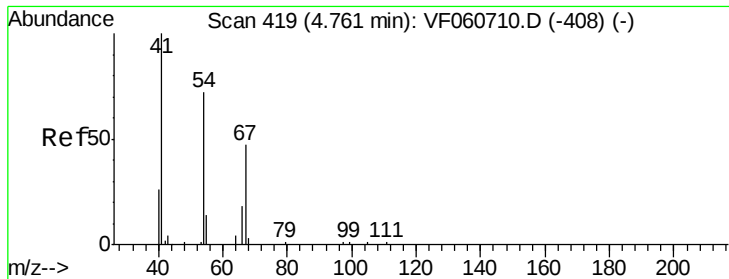
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#40
Benzene
Concen: 21.96 ug/l
RT: 4.61 min Scan# 403
Delta R.T. -0.05 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	229094		
77	22.8	18.6	28.0	





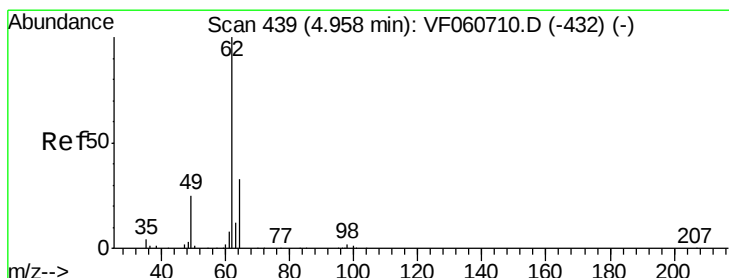
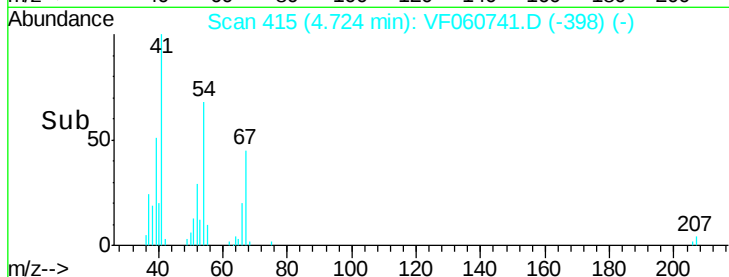
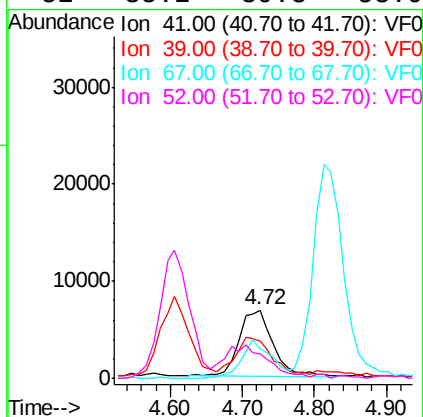
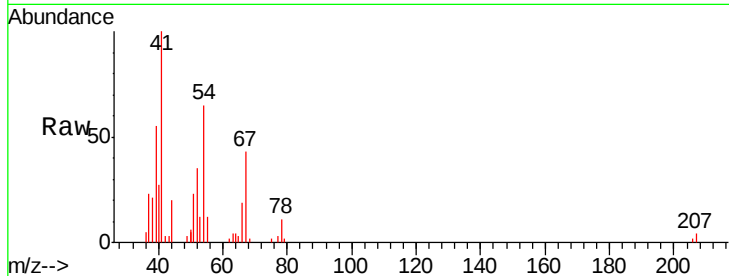
#41
Methacrylonitrile
Concen: 22.24 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion: 41 Resp: 22866
Ion Ratio Lower Upper
41 100
39 54.7 47.1 70.7
67 43.4 37.1 55.7
52 35.2 39.3 58.9#

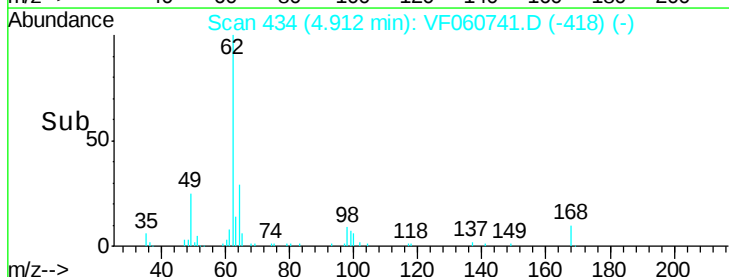
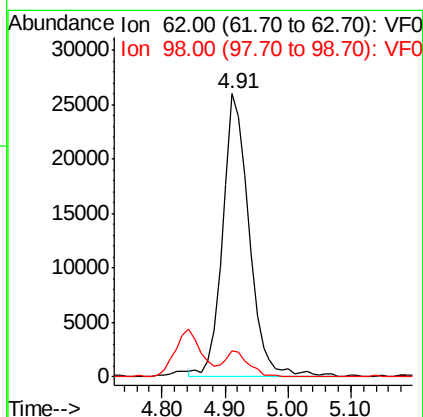
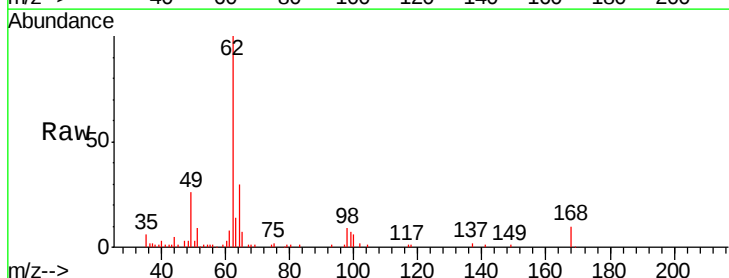
Manual Integrations
APPROVED

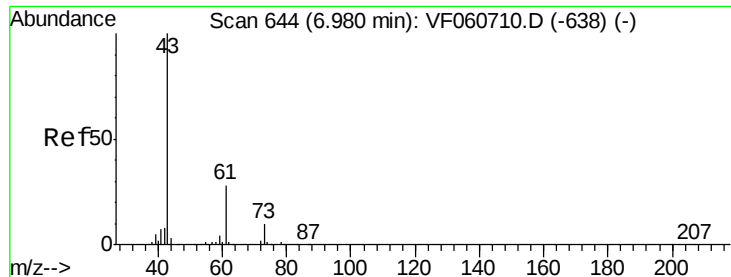
MMDadoda
11/16/2018 1:25:44 PM



#42
1,2-Dichloroethane
Concen: 21.05 ug/l
RT: 4.91 min Scan# 434
Delta R.T. -0.05 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion: 62 Resp: 75893
Ion Ratio Lower Upper
62 100
98 9.1 0.0 16.6





#43

Isopropyl Acetate

Concen: 21.16 ug/l

RT: 6.93 min Scan# 639

Delta R.T. -0.05 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

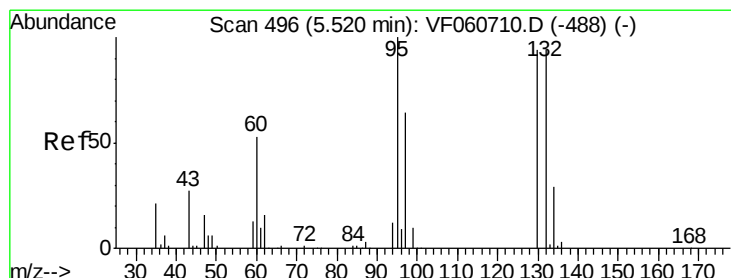
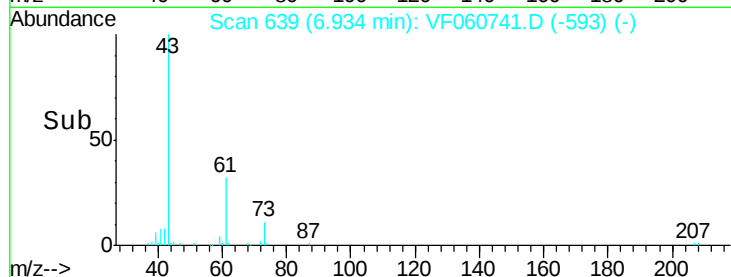
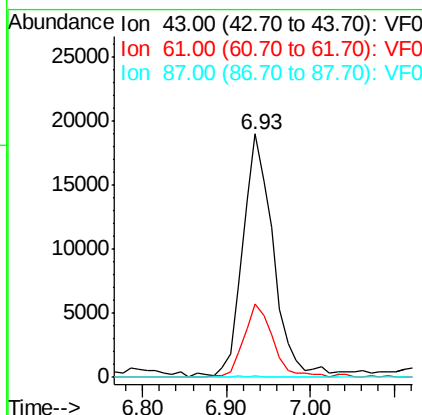
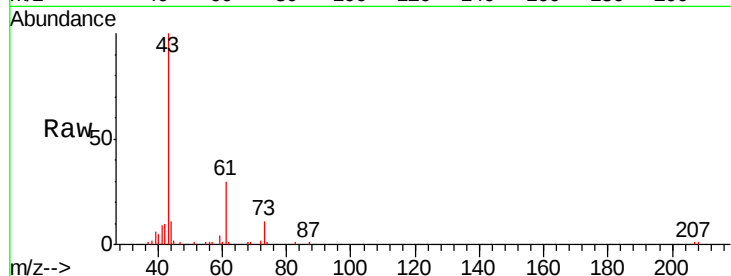
ClientSampleId :

VF1115SBS01

Tgt Ion:	43	Resp:	48820
Ion	Ratio	Lower	Upper
43	100		
61	30.3	22.2	33.4
87	0.7	0.4	0.6#

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#44

Trichloroethene

Concen: 22.02 ug/l

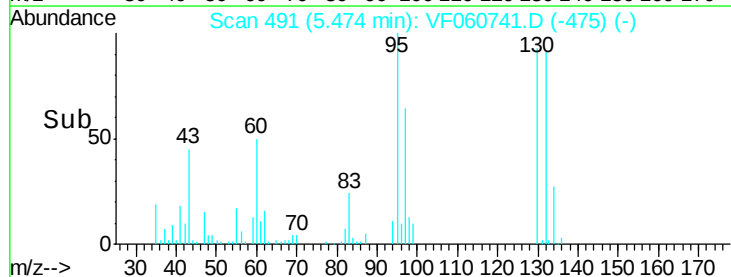
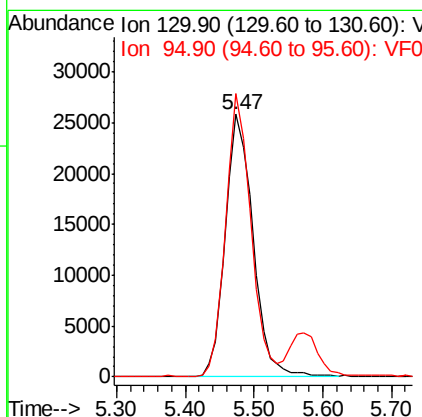
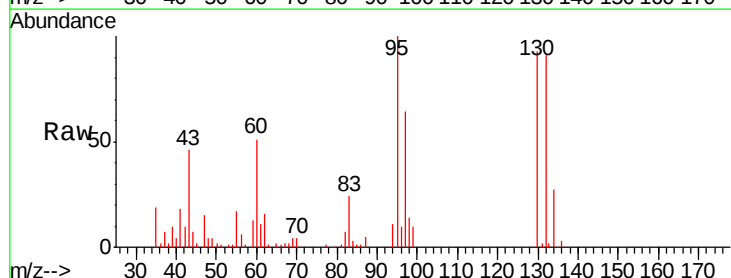
RT: 5.47 min Scan# 491

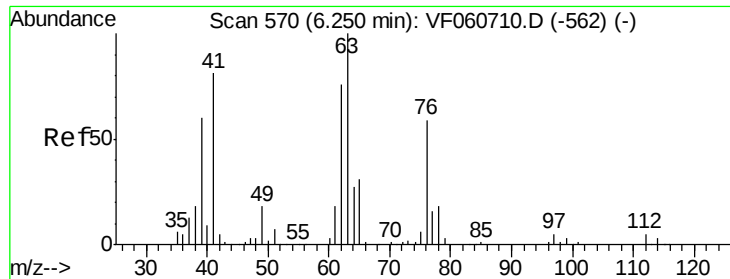
Delta R.T. -0.05 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Tgt Ion:	130	Resp:	72485
Ion	Ratio	Lower	Upper
130	100		
95	107.8	0.0	212.6





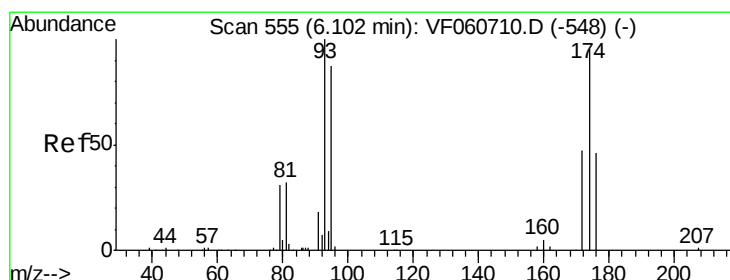
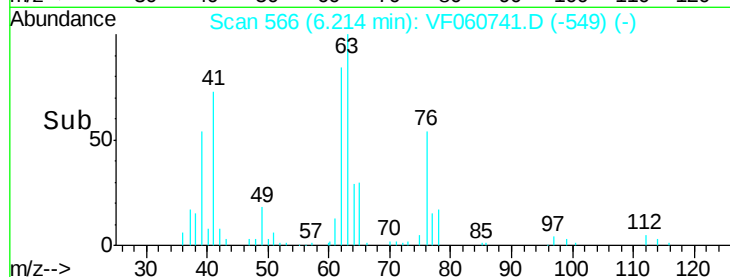
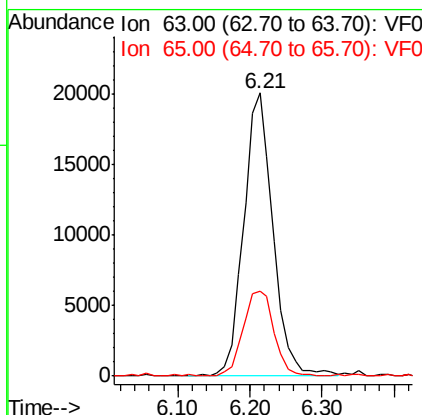
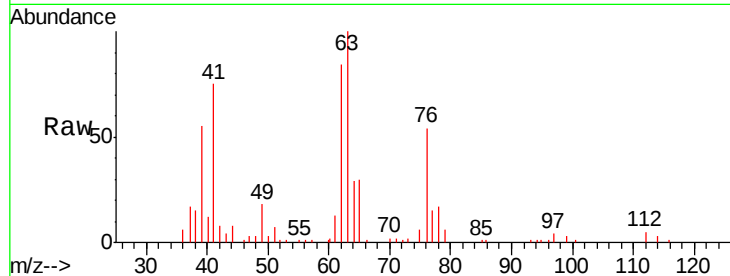
#45
 1,2-Dichloropropane
 Concen: 20.97 ug/l
 RT: 6.21 min Scan# 566
 Delta R.T. -0.04 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBS01

Tgt Ion: 63 Resp: 56941
 Ion Ratio Lower Upper
 63 100
 65 30.0 24.6 36.8

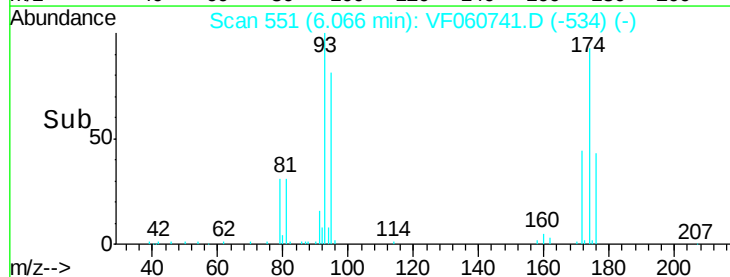
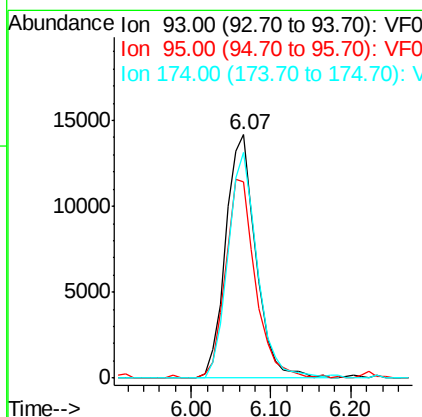
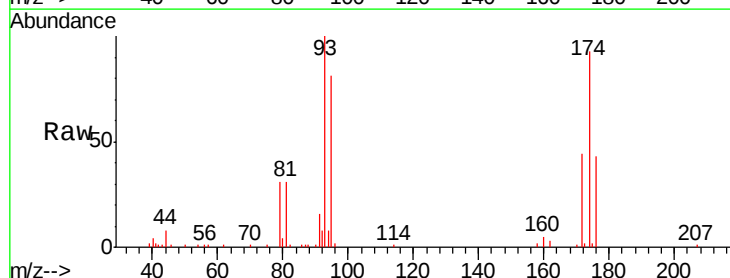
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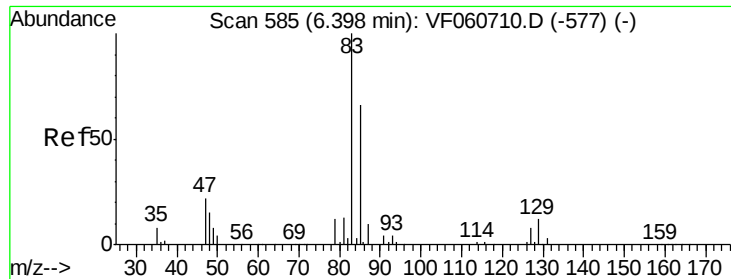
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#46
 Dibromomethane
 Concen: 21.05 ug/l
 RT: 6.07 min Scan# 551
 Delta R.T. -0.04 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Tgt Ion: 93 Resp: 37715
 Ion Ratio Lower Upper
 93 100
 95 80.8 69.5 104.3
 174 94.3 76.2 114.2





#47

Bromodichloromethane

Concen: 21.57 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.04 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

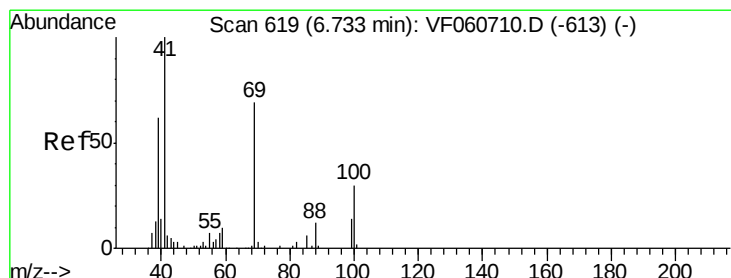
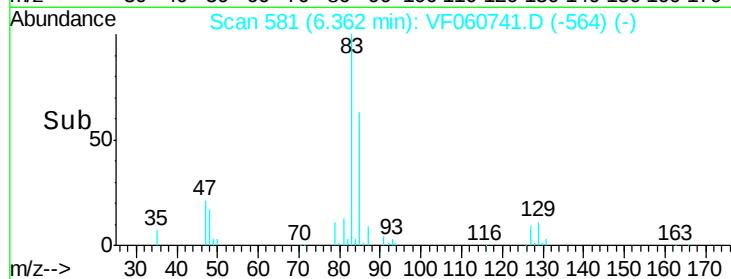
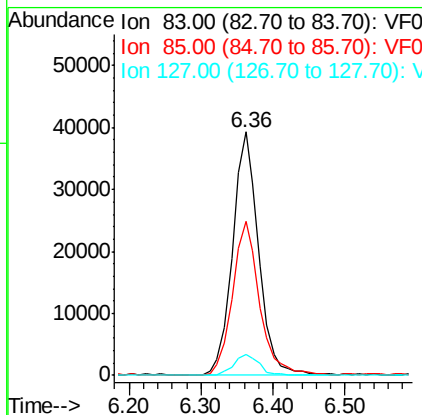
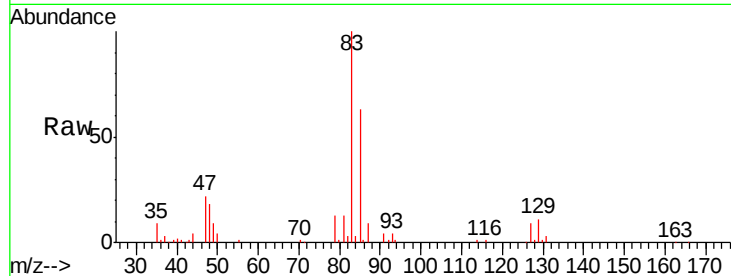
ClientSampleId :

VF1115SBS01

Tgt Ion:	83	Resp:	98717
Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.4	78.6
127	8.5	6.8	10.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.45 ug/l

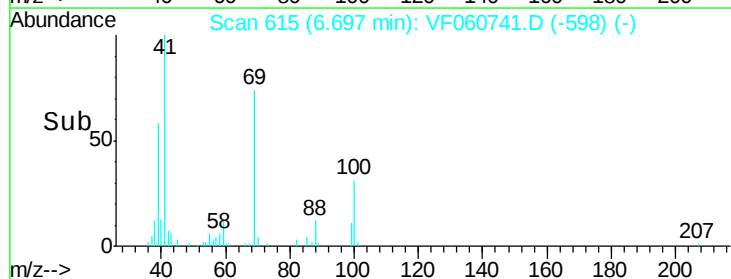
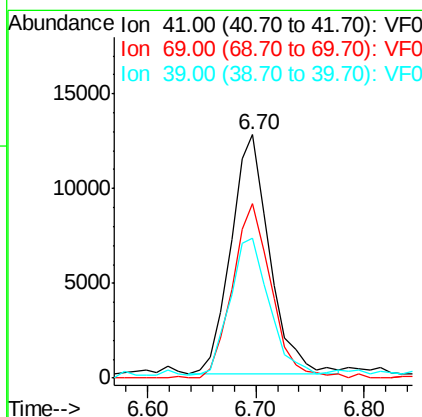
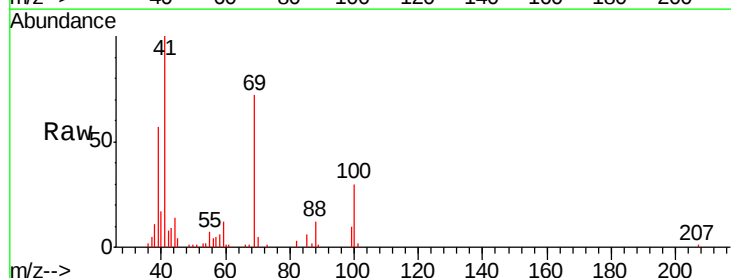
RT: 6.70 min Scan# 615

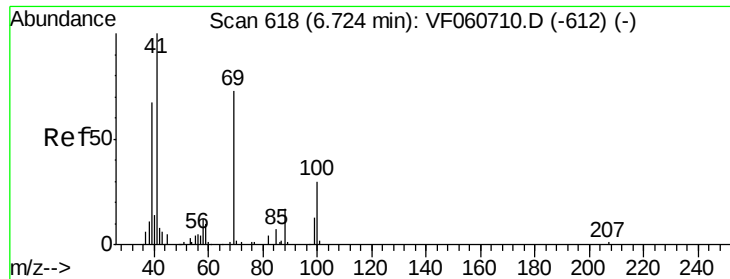
Delta R.T. -0.04 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Tgt Ion:	41	Resp:	31231
Ion	Ratio	Lower	Upper
41	100		
69	71.9	54.9	82.3
39	57.4	49.6	74.4





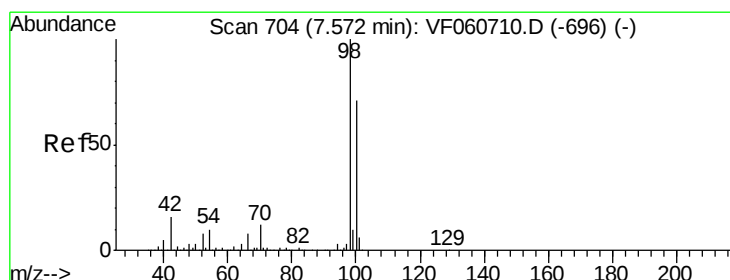
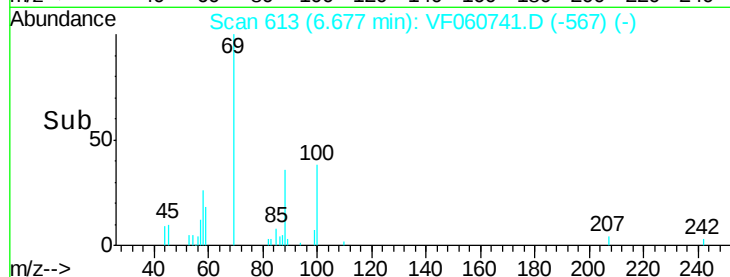
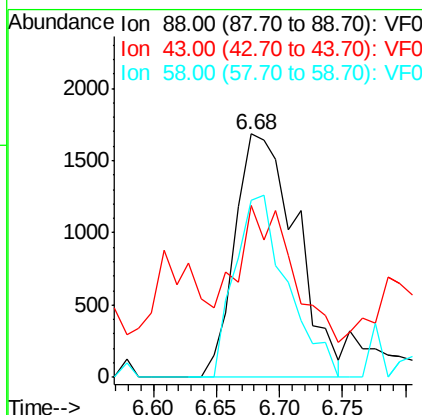
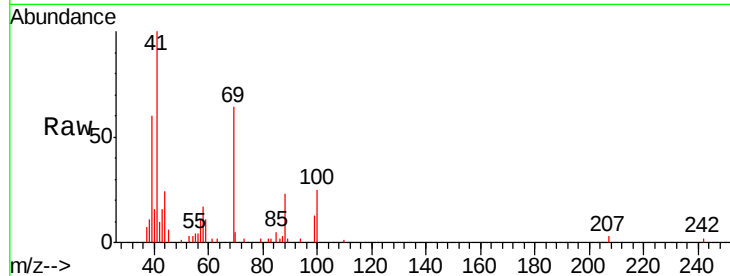
#49
1,4-Dioxane
Concen: 397.49 ug/l
RT: 6.68 min Scan# 613
Delta R.T. -0.05 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion: 88 Resp: 5676
Ion Ratio Lower Upper
88 100
43 70.6 44.6 66.8#
58 72.6 54.5 81.7

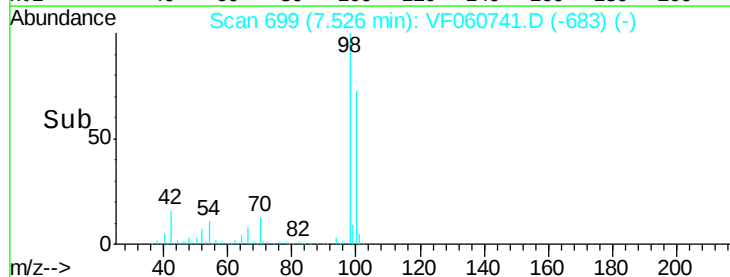
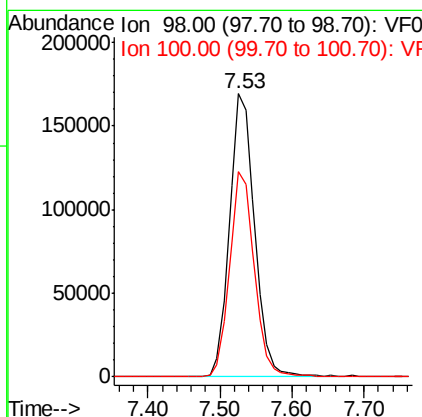
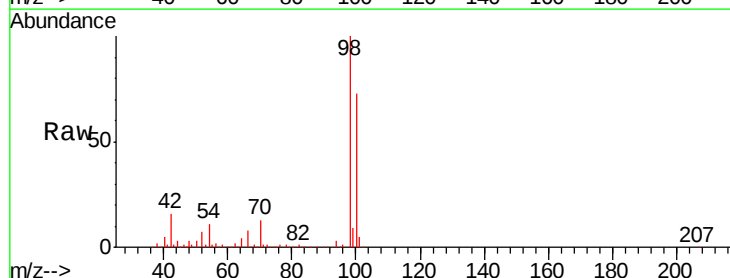
Manual Integrations
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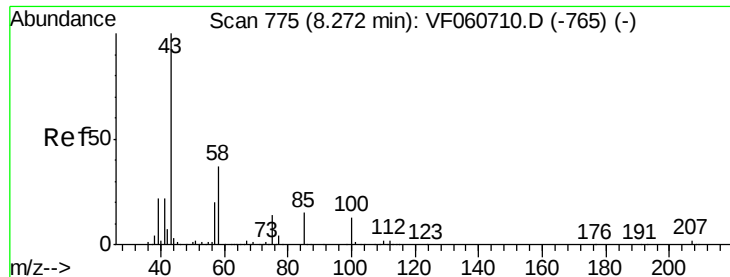
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#50
Toluene-d8
Concen: 53.23 ug/l
RT: 7.53 min Scan# 699
Delta R.T. -0.05 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion: 98 Resp: 412527
Ion Ratio Lower Upper
98 100
100 72.6 56.5 84.7





#51

4-Methyl-2-Pentanone

Concen: 106.20 ug/l

RT: 8.24 min Scan# 771

Delta R.T. -0.04 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBS01

Tgt Ion: 43 Resp: 177206

Ion Ratio Lower Upper

43 100

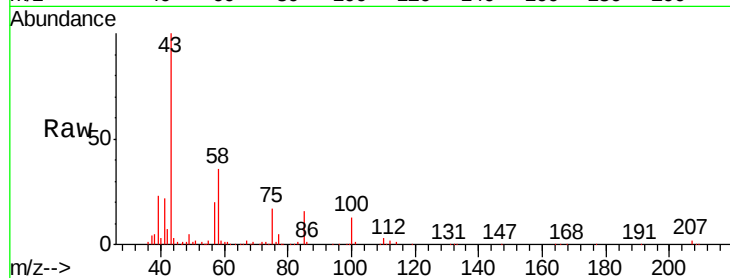
58 35.6 29.2 43.8

Manual Integrations

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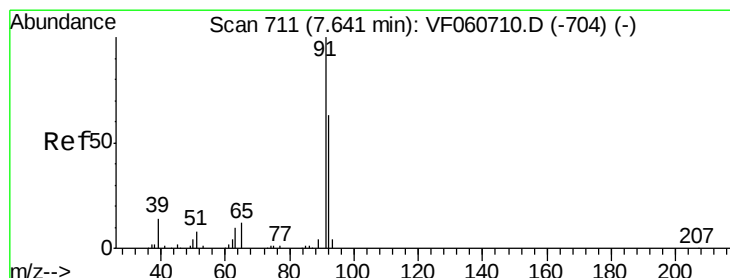
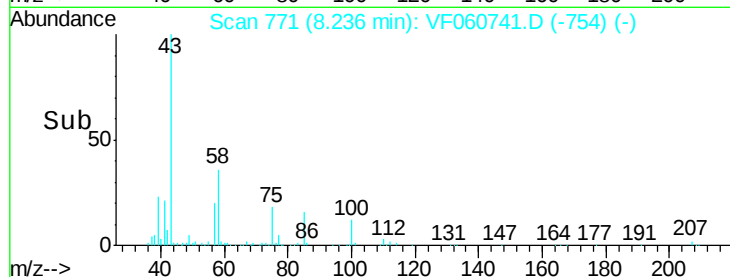
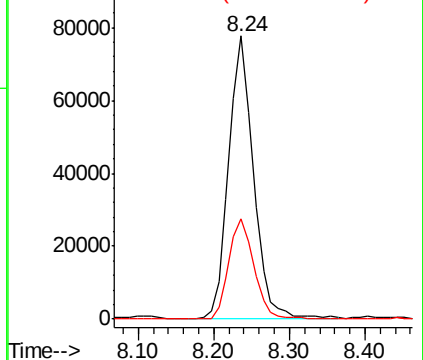
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.04 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.04 min

Lab File: VF060741.D

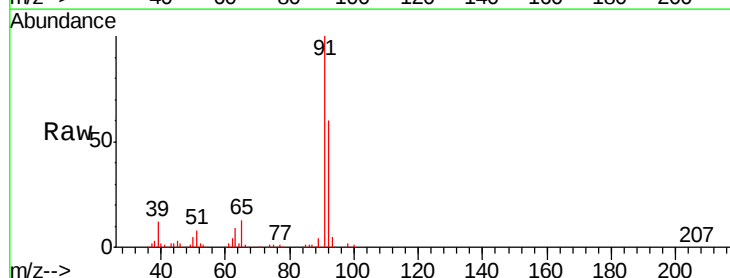
Acq: 15 Nov 2018 12:03

Tgt Ion: 92 Resp: 140109

Ion Ratio Lower Upper

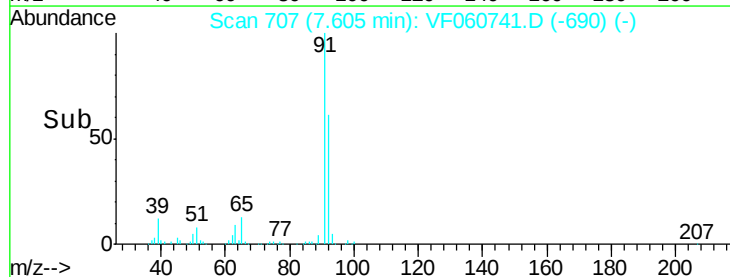
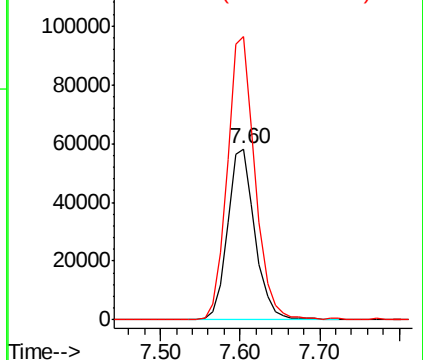
92 100

91 165.4 126.7 190.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 20.15 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.04 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBS01

Tgt Ion: 75 Resp: 73867

Ion Ratio Lower Upper

75 100

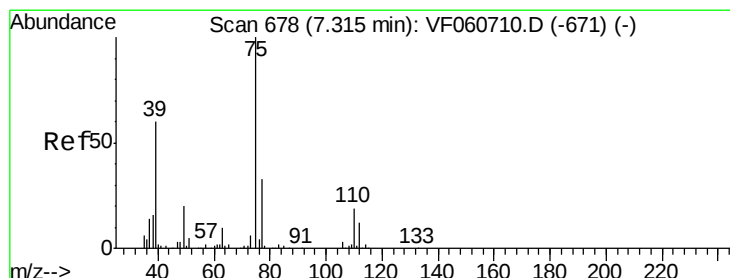
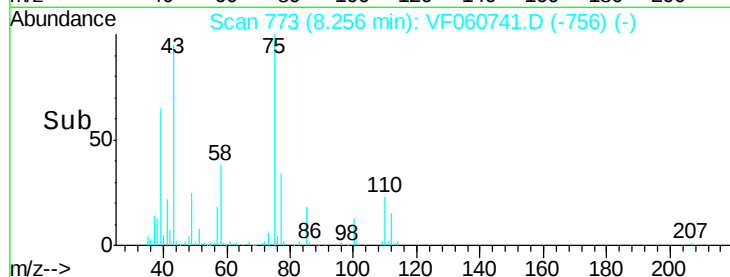
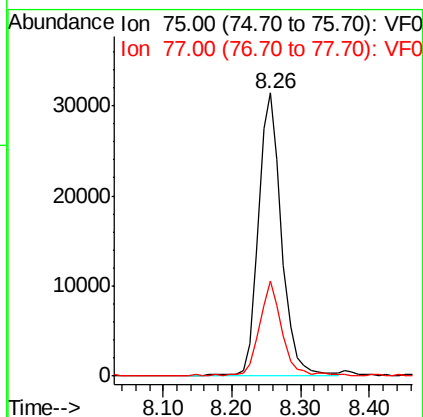
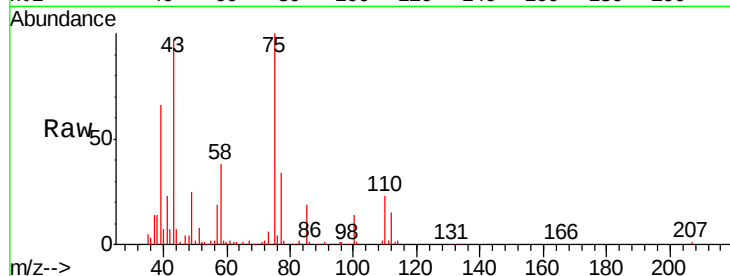
77 33.8 24.6 36.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 21.13 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.04 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

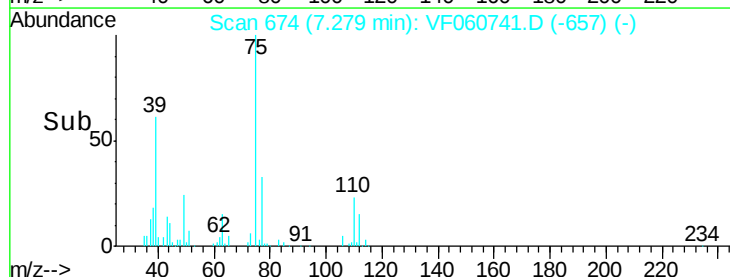
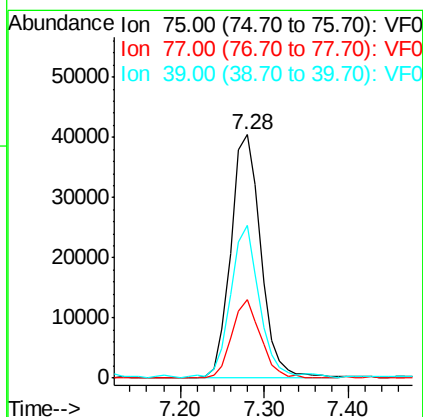
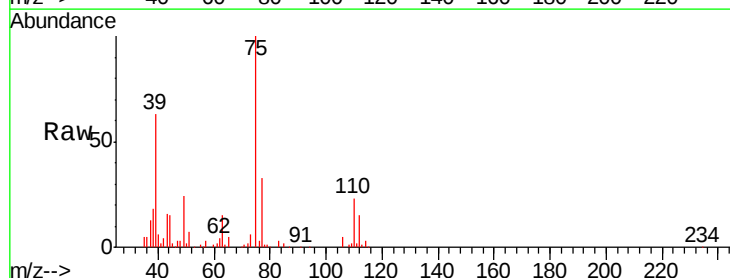
Tgt Ion: 75 Resp: 100618

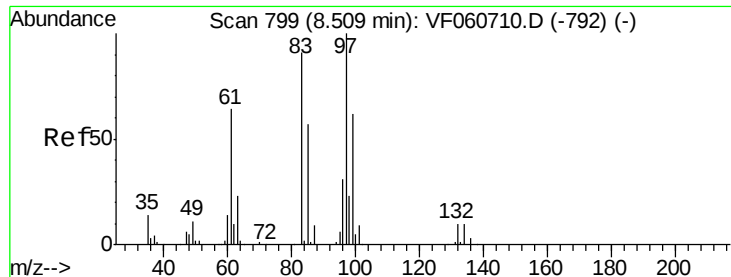
Ion Ratio Lower Upper

75 100

77 32.5 26.5 39.7

39 62.6 48.5 72.7





#55

1,1,2-Trichloroethane

Concen: 20.56 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.04 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

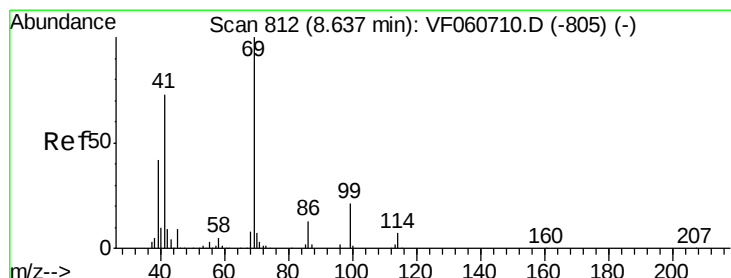
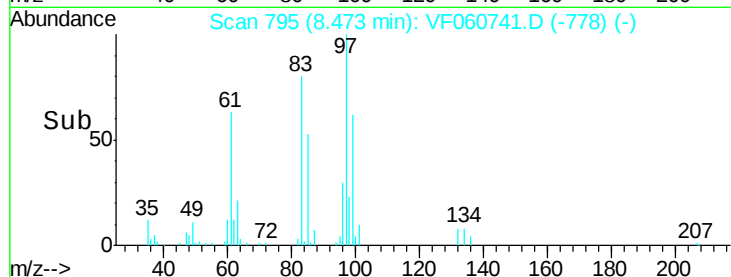
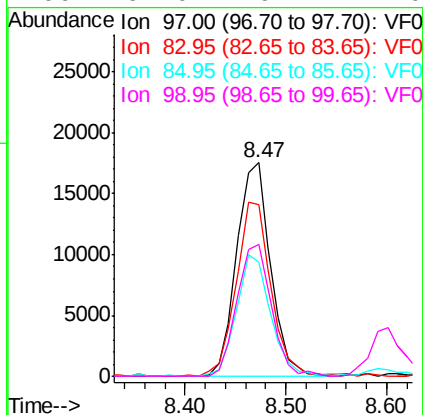
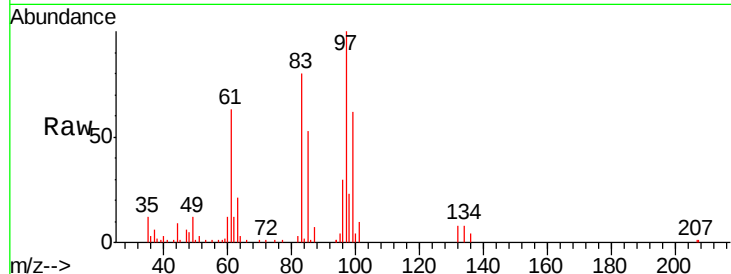
ClientSampleId :

VF1115SBS01

Tgt Ion:	97	Resp:	41063
Ion	Ratio	Lower	Upper
97	100		
83	80.3	72.8	109.2
85	53.5	45.8	68.6
99	62.0	49.4	74.0

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#56

Ethyl methacrylate

Concen: 19.84 ug/l

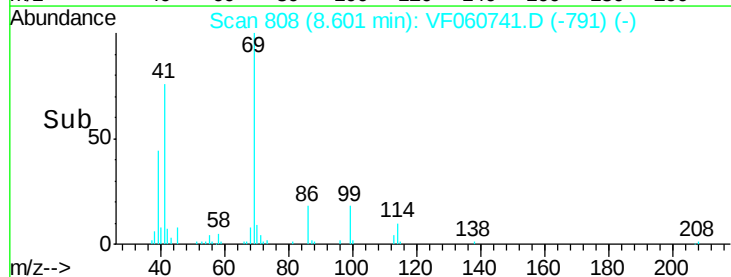
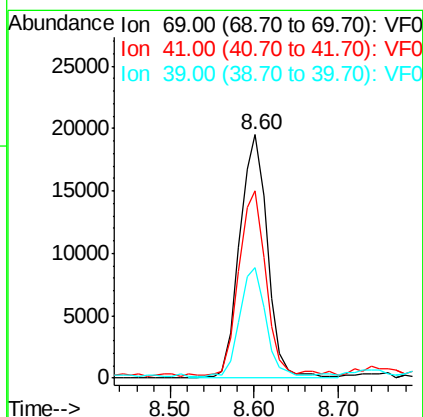
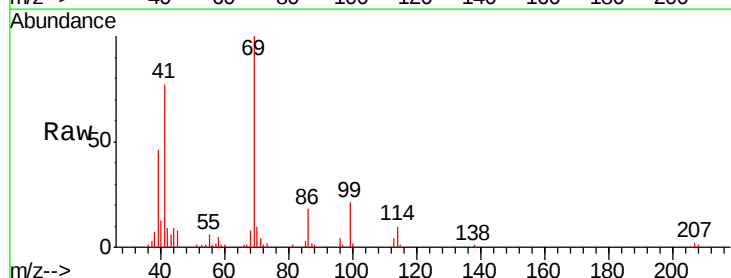
RT: 8.60 min Scan# 808

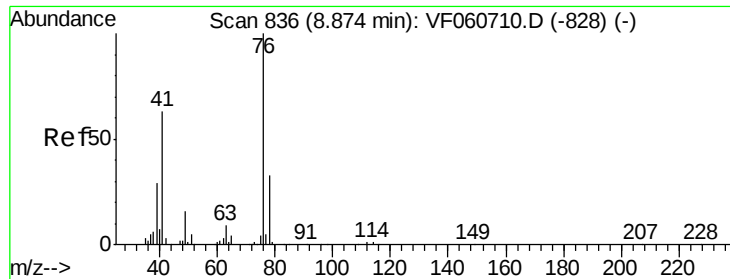
Delta R.T. -0.04 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Tgt Ion:	69	Resp:	45010
Ion	Ratio	Lower	Upper
69	100		
41	77.1	59.0	88.6
39	45.6	34.0	51.0





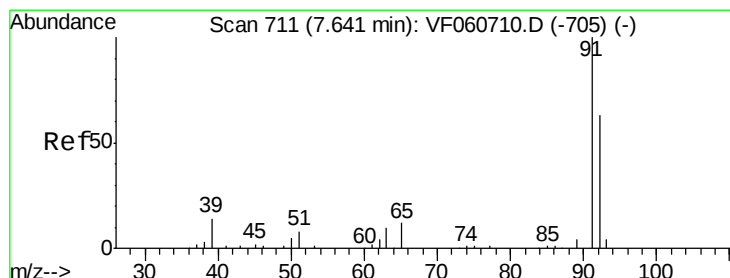
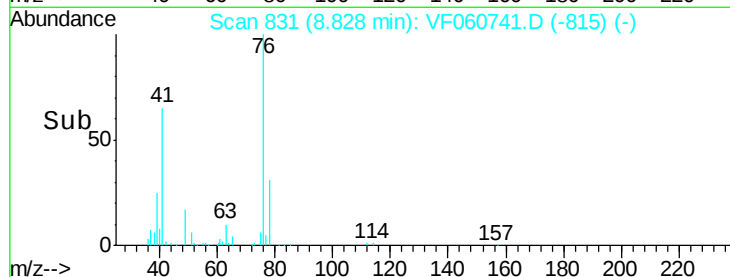
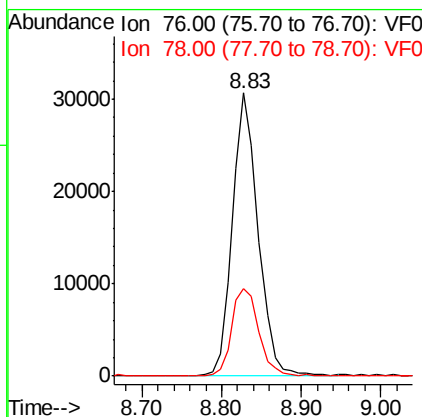
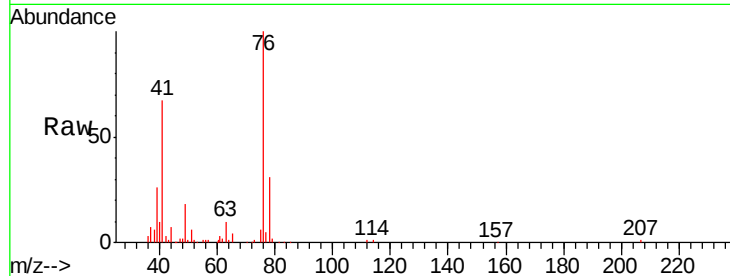
#57
 1,3-Dichloropropane
 Concen: 20.01 ug/l
 RT: 8.83 min Scan# 831
 Delta R.T. -0.05 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBS01

Tgt Ion: 76 Resp: 69289
 Ion Ratio Lower Upper
 76 100
 78 31.0 26.6 39.8

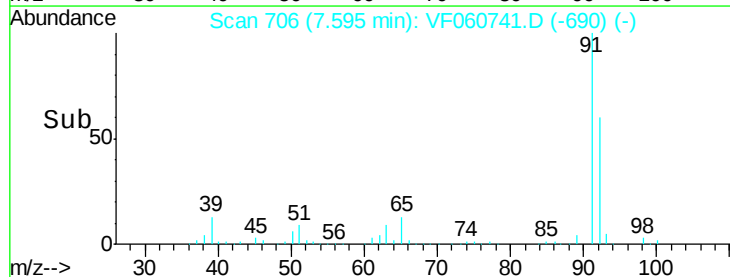
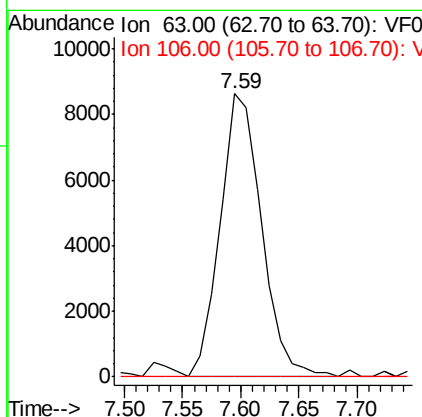
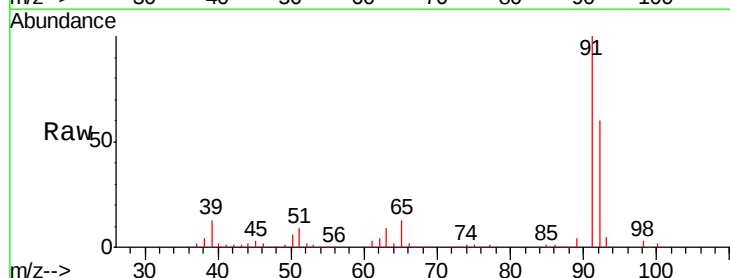
Manual Integrations
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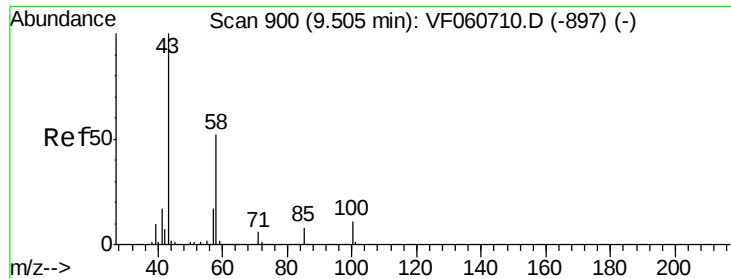
MMDadoda
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#58
 2-Chloroethyl Vinyl ether
 Concen: 102.58 ug/l
 RT: 7.59 min Scan# 706
 Delta R.T. -0.05 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Tgt Ion: 63 Resp: 21259
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0





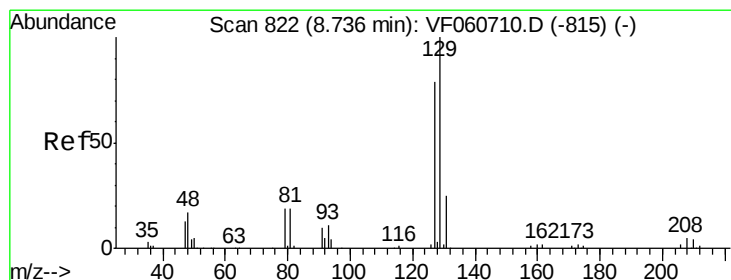
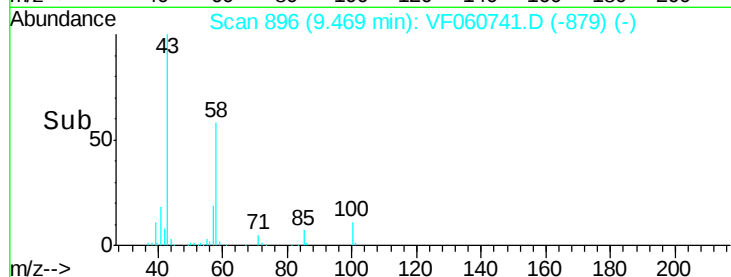
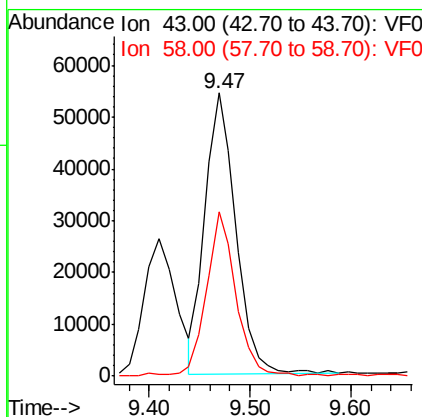
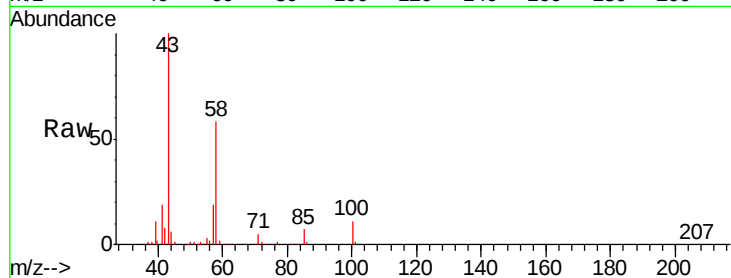
#59
2-Hexanone
Concen: 98.28 ug/l
RT: 9.47 min Scan# 896
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion: 43 Resp: 115245
Ion Ratio Lower Upper
43 100
58 58.0 24.9 74.7

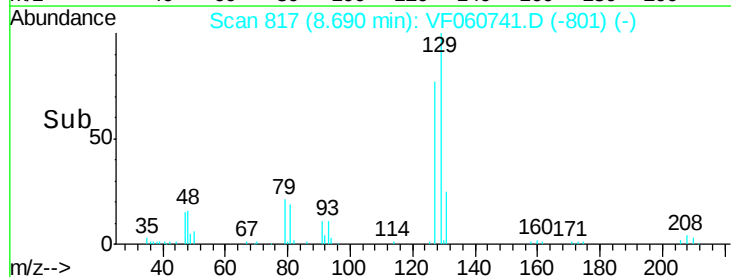
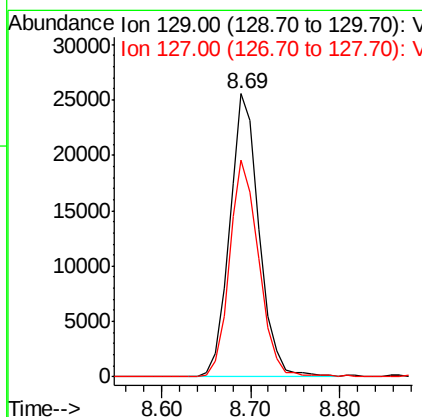
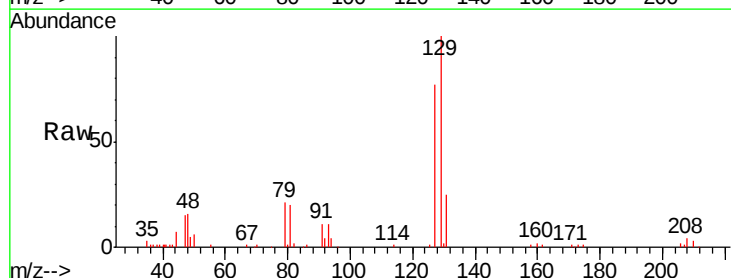
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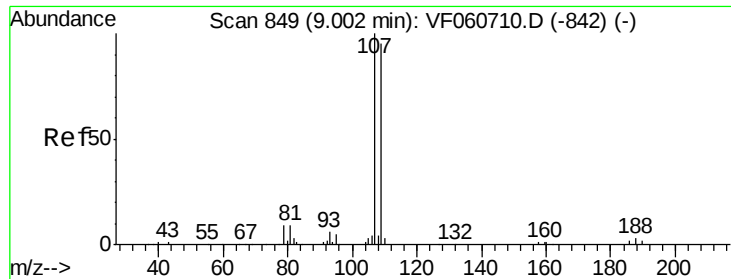
MMDadoda
11/16/2018 1:25:44 PM



#60
Dibromochloromethane
Concen: 20.75 ug/l
RT: 8.69 min Scan# 817
Delta R.T. -0.05 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion: 129 Resp: 59078
Ion Ratio Lower Upper
129 100
127 76.7 39.7 119.1





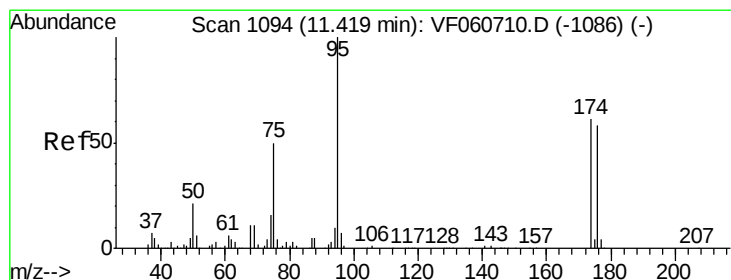
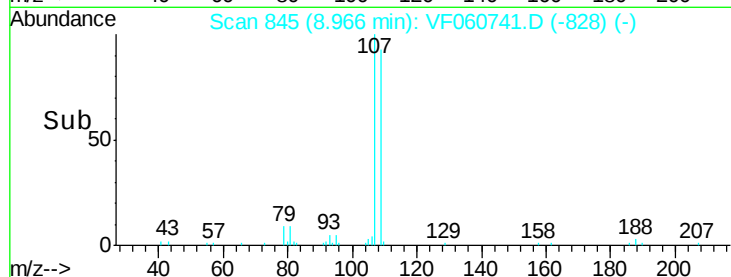
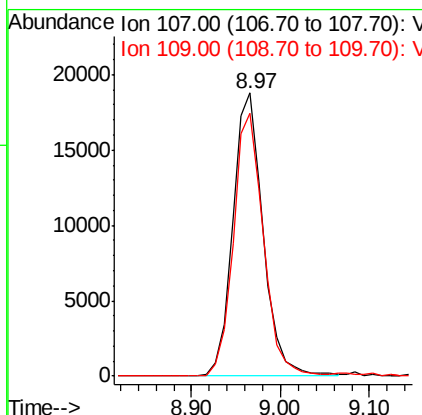
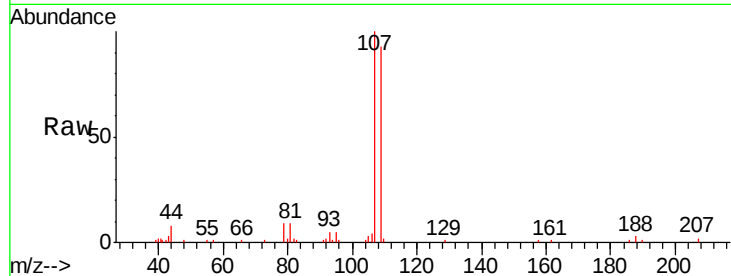
#61
1,2-Dibromoethane
Concen: 21.22 ug/l
RT: 8.97 min Scan# 845
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion: 107 Resp: 44583
Ion Ratio Lower Upper
107 100
109 92.8 75.9 113.9

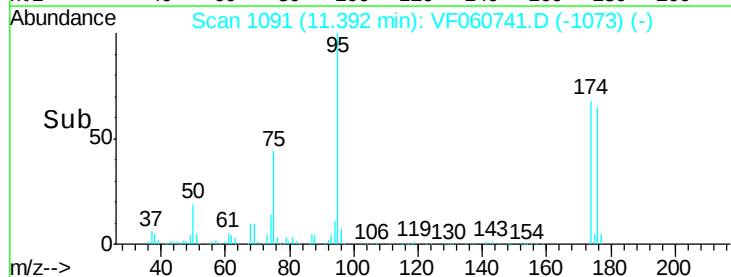
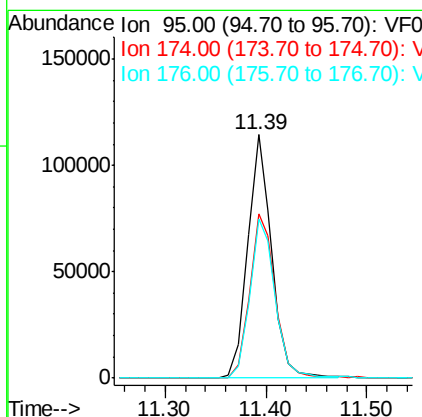
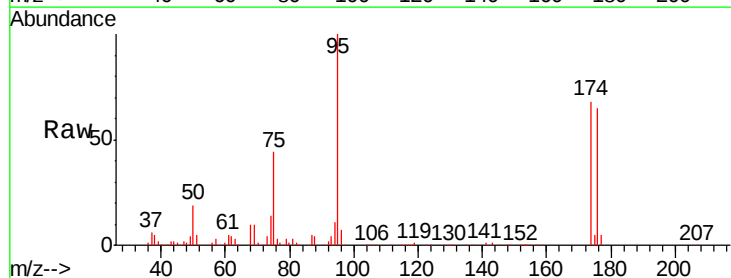
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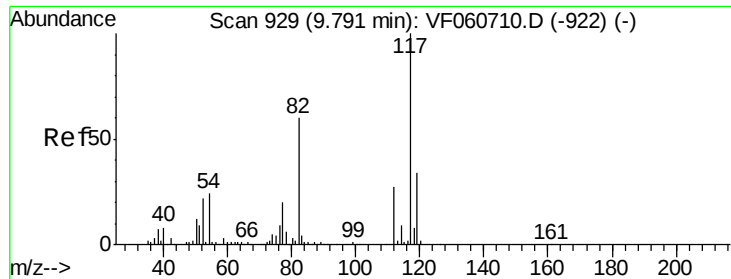
MMDadoda
11/16/2018 1:25:44 PM



#62
4-Bromofluorobenzene
Concen: 53.16 ug/l
RT: 11.39 min Scan# 1091
Delta R.T. -0.03 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion: 95 Resp: 189908
Ion Ratio Lower Upper
95 100
174 67.7 0.0 121.6
176 65.2 0.0 115.2





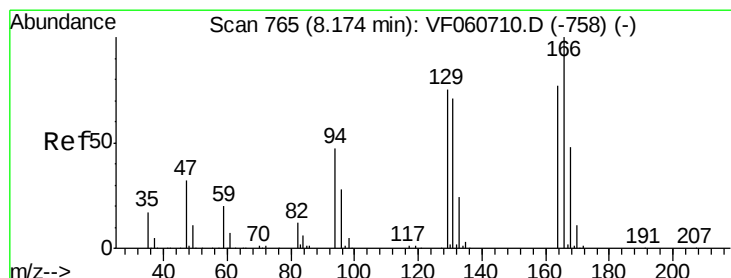
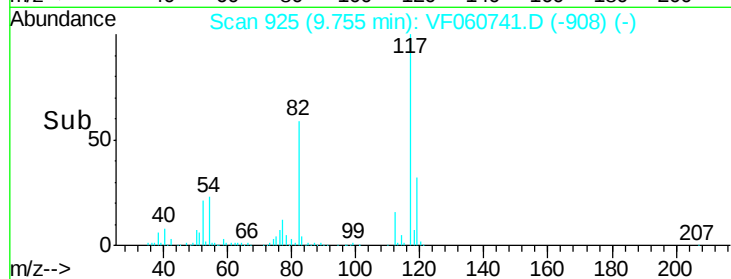
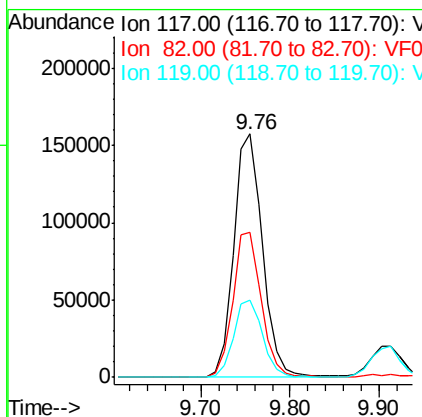
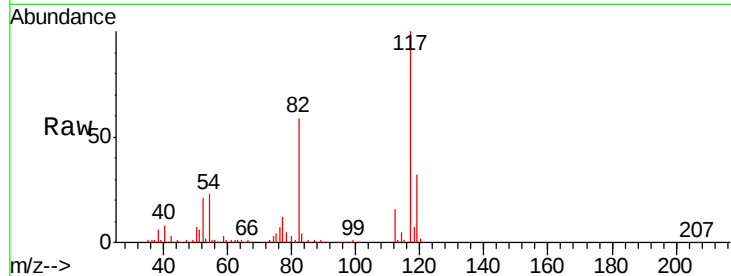
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.76 min Scan# 925
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	355359		
82	59.5	47.9	71.9	
119	31.9	26.8	40.2	

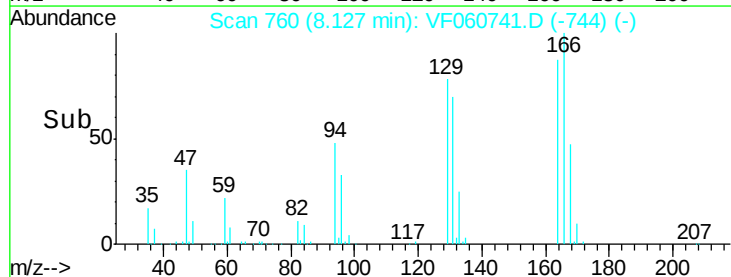
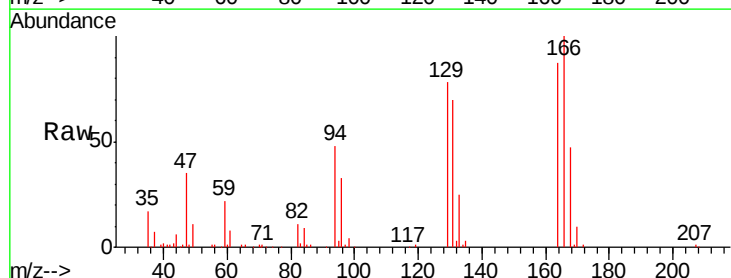
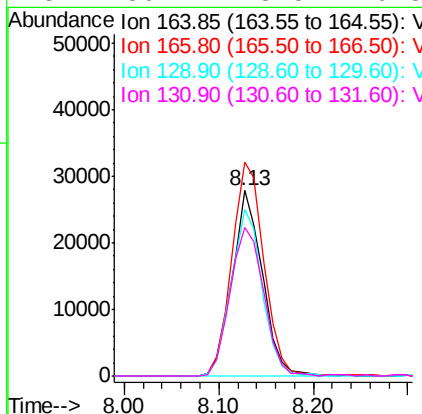
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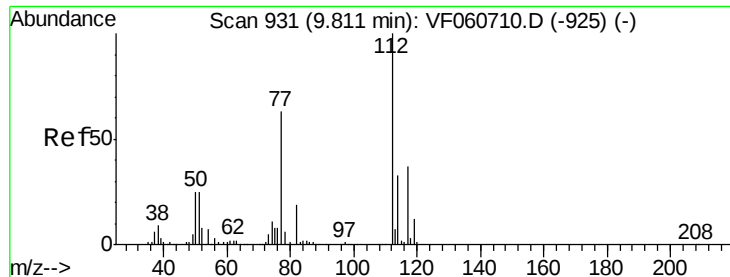
MMDadoda
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#64
Tetrachloroethene
Concen: 22.00 ug/l
RT: 8.13 min Scan# 760
Delta R.T. -0.05 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	61904		
166	115.2	103.5	155.3	
129	89.6	77.4	116.2	
131	80.1	73.5	110.3	





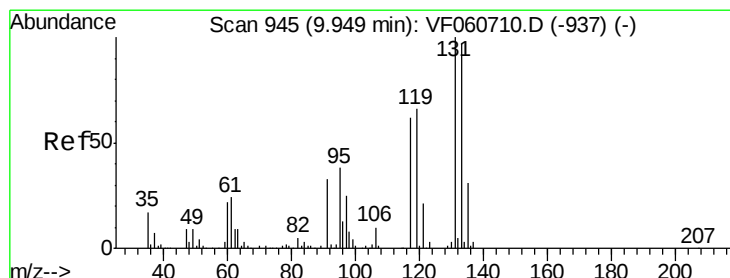
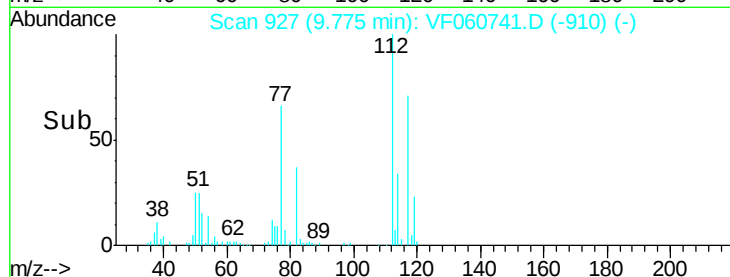
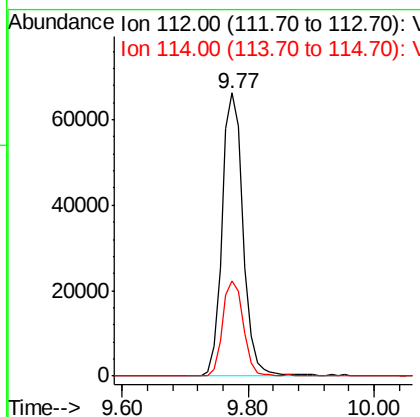
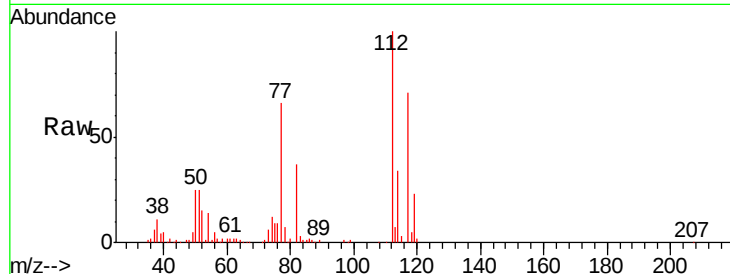
#65
Chlorobenzene
Concen: 21.51 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion:112 Resp: 154242
Ion Ratio Lower Upper
112 100
114 33.8 26.1 39.1

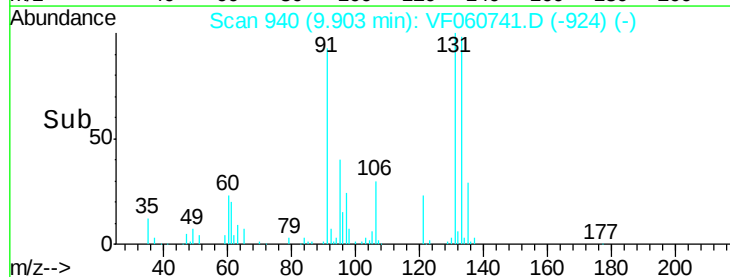
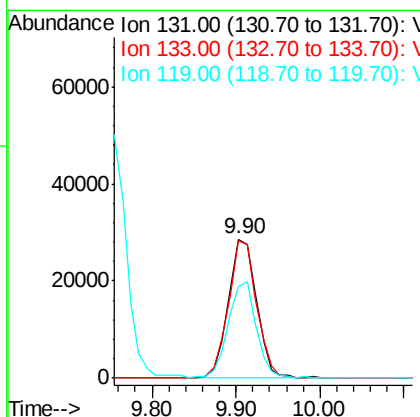
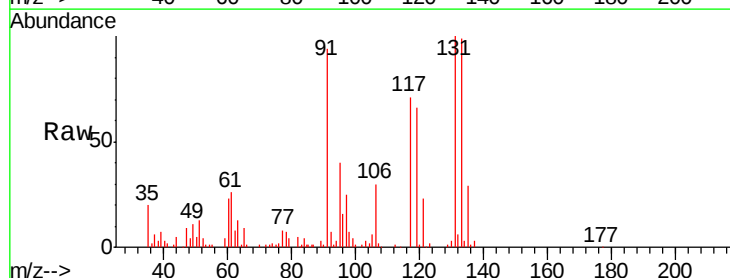
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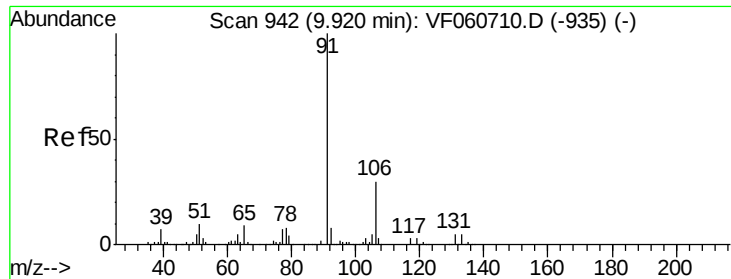
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.45 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.05 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion:131 Resp: 67087
Ion Ratio Lower Upper
131 100
133 98.6 48.3 144.8
119 66.0 33.2 99.6





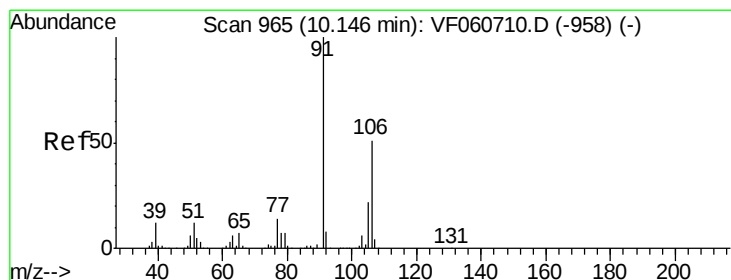
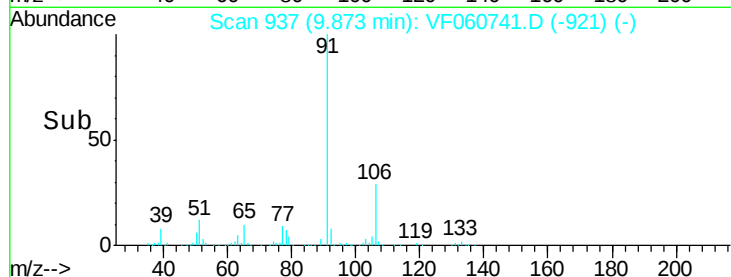
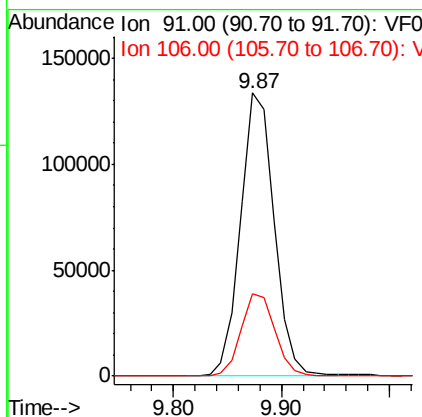
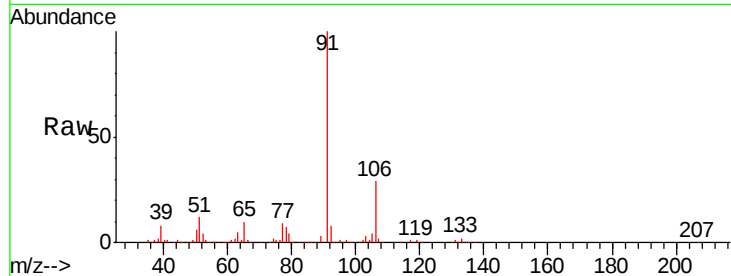
#67
Ethyl Benzene
Concen: 21.55 ug/l
RT: 9.87 min Scan# 937
Delta R.T. -0.05 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion: 91 Resp: 291242
Ion Ratio Lower Upper
91 100
106 29.0 23.9 35.9

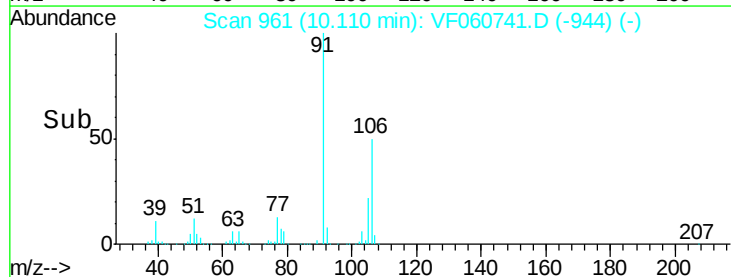
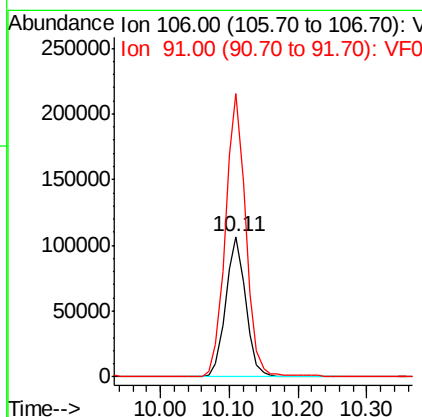
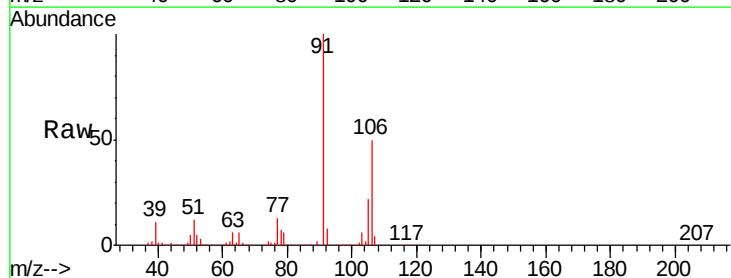
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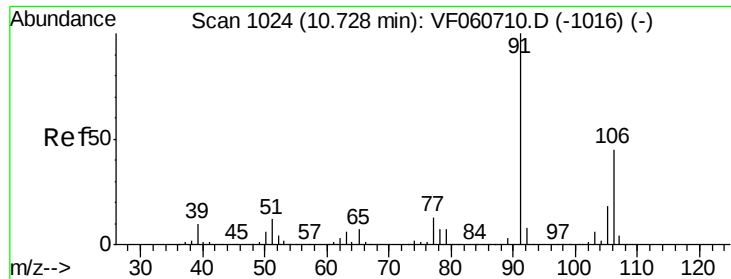
MMDadoda
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#68
m/p-Xylenes
Concen: 44.45 ug/l
RT: 10.11 min Scan# 961
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion: 106 Resp: 214694
Ion Ratio Lower Upper
106 100
91 202.0 158.2 237.2





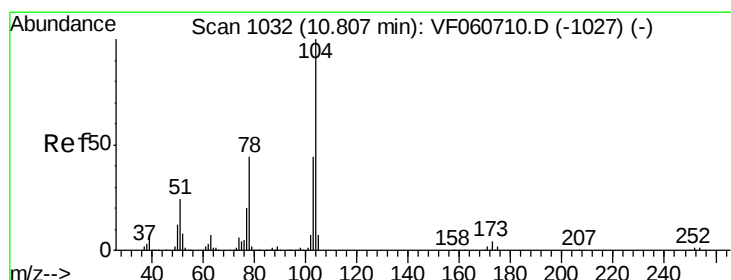
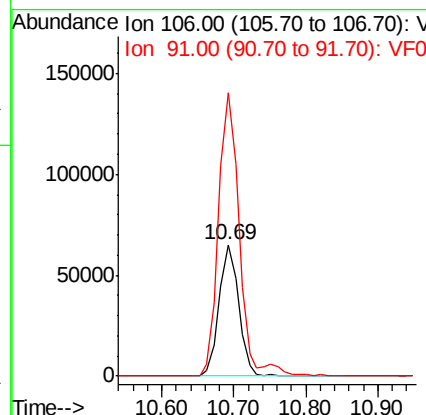
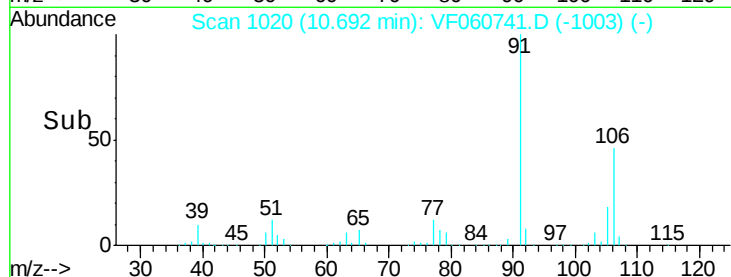
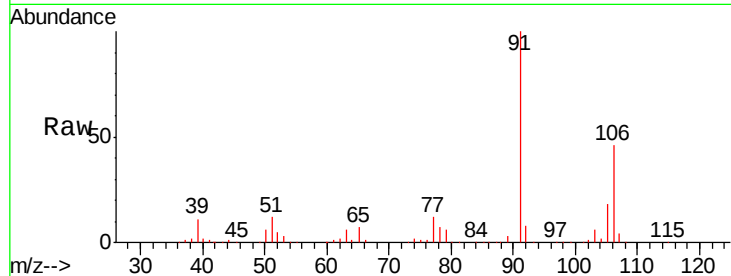
#69
o-Xylene
Concen: 22.47 ug/l
RT: 10.69 min Scan# 1020
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion:106 Resp: 122010
Ion Ratio Lower Upper
106 100
91 215.9 110.3 330.9

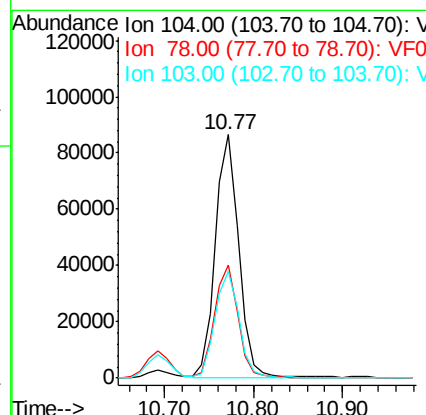
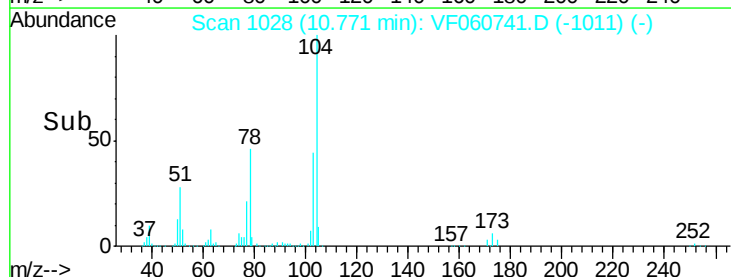
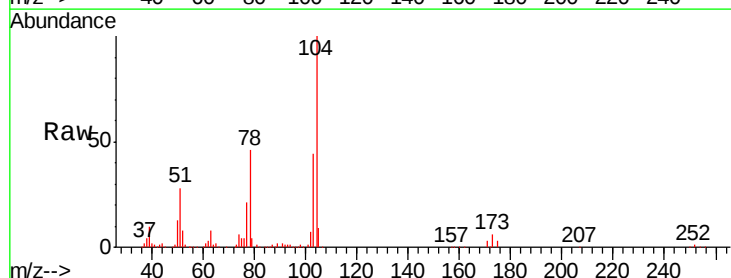
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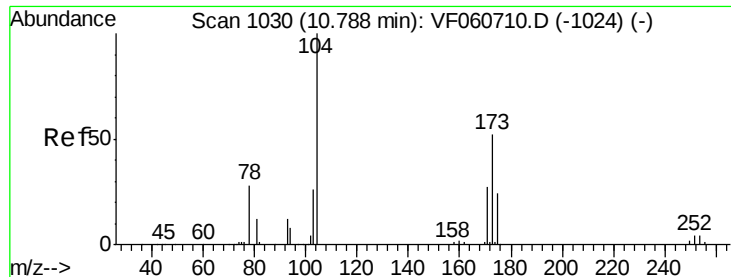
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#70
Styrene
Concen: 21.51 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.04 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion:104 Resp: 158506
Ion Ratio Lower Upper
104 100
78 46.4 35.4 53.2
103 43.8 35.8 53.6





#71

Bromoform

Concen: 20.71 ug/l

RT: 10.75 min Scan# 1026

Delta R.T. -0.04 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBS01

Tgt Ion:173 Resp: 29128

Ion Ratio Lower Upper

173 100

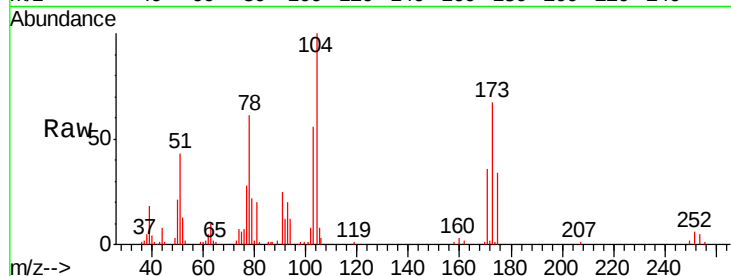
175 51.0 23.4 70.0

254 6.8 5.8 8.8

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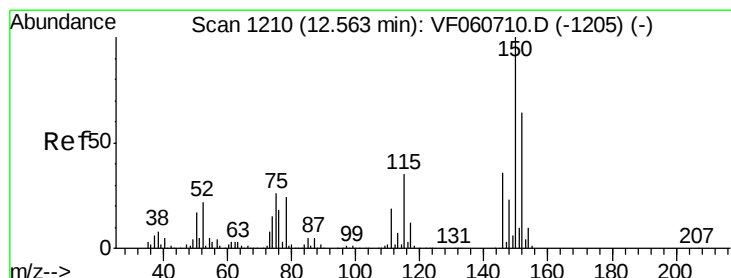
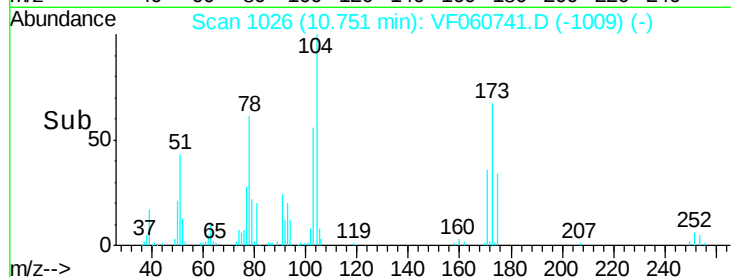
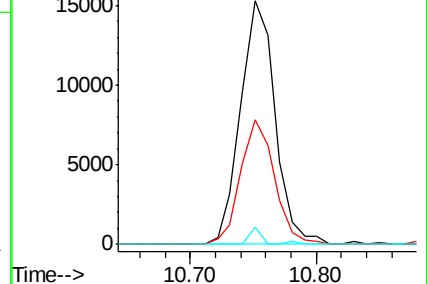
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Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.54 min Scan# 1207

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

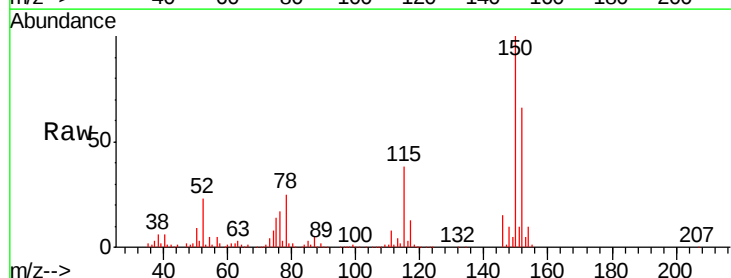
Tgt Ion:152 Resp: 197308

Ion Ratio Lower Upper

152 100

115 57.0 27.9 83.7

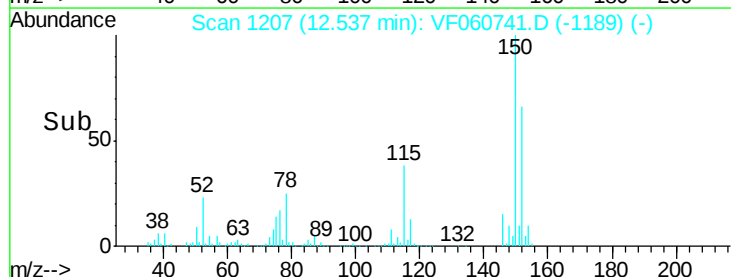
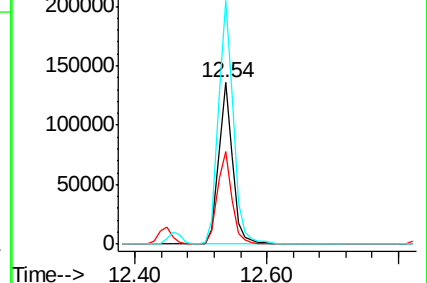
150 150.8 0.0 316.4

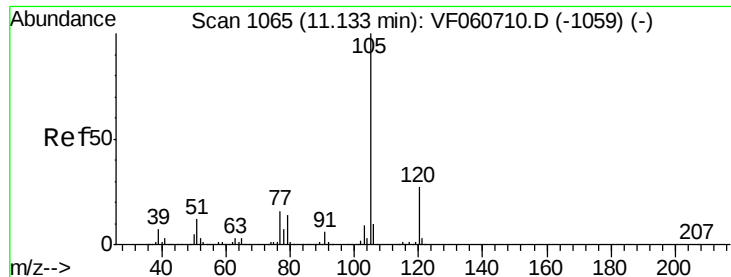


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.62 ug/l

RT: 11.11 min Scan# 1062

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBS01

Tgt Ion: 105 Resp: 359261

Ion Ratio Lower Upper

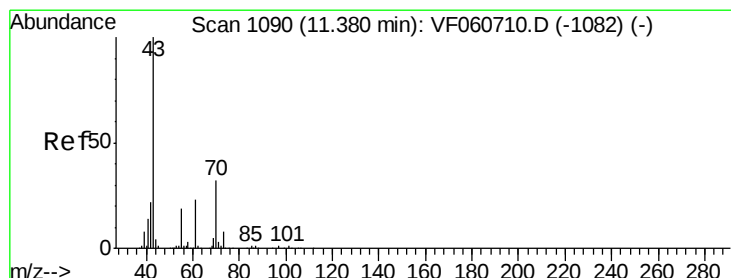
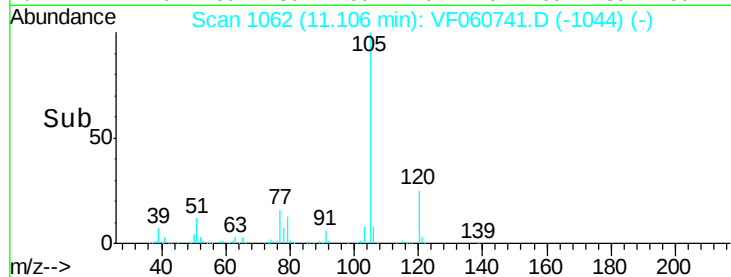
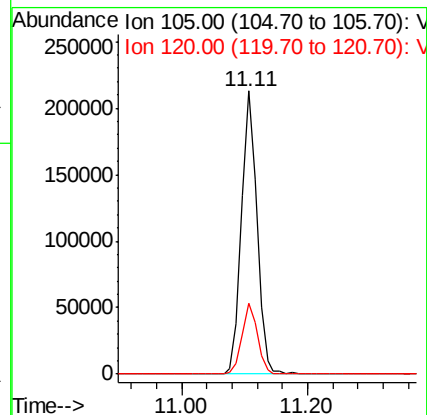
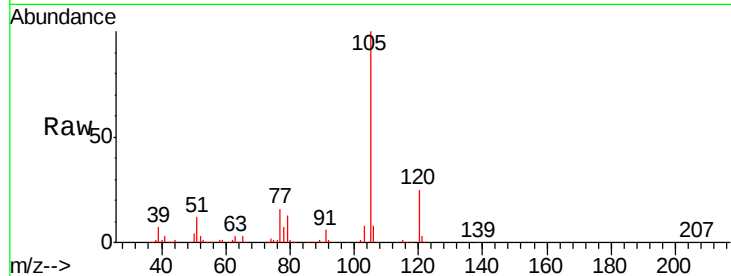
105 100

120 24.9 13.4 40.1

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#74

N-ethyl acetate

Concen: 22.51 ug/l

RT: 11.35 min Scan# 1087

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Tgt Ion: 43 Resp: 81368

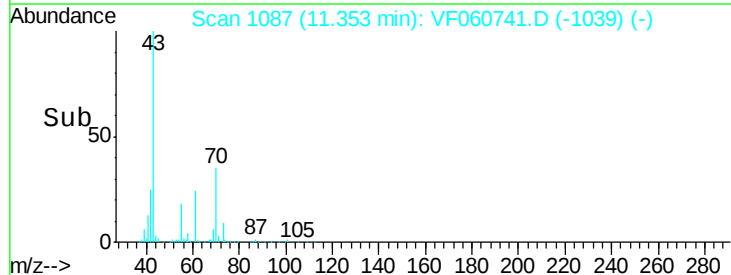
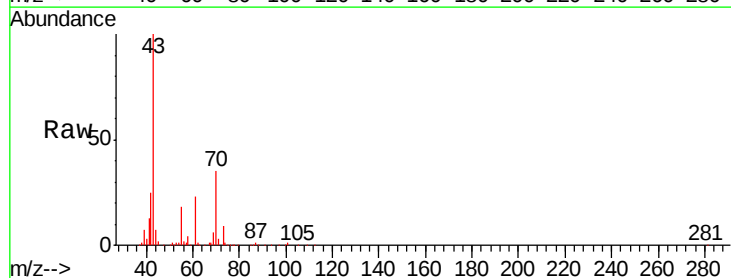
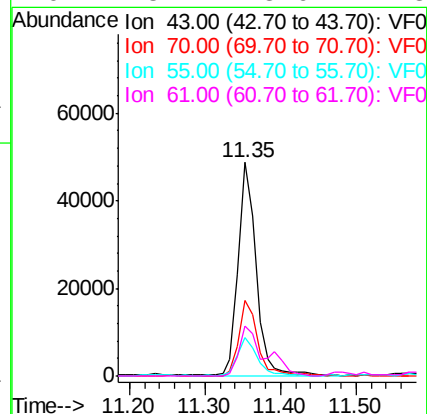
Ion Ratio Lower Upper

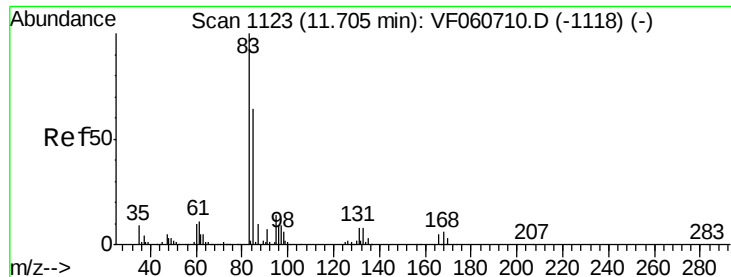
43 100

70 35.3 25.5 38.3

55 18.3 14.9 22.3

61 23.4 18.6 27.8





#75

1,1,2,2-Tetrachloroethane

Concen: 22.06 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

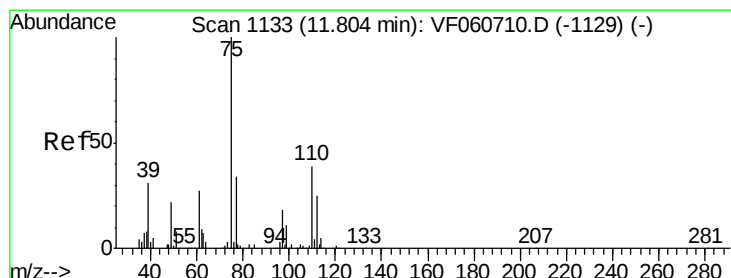
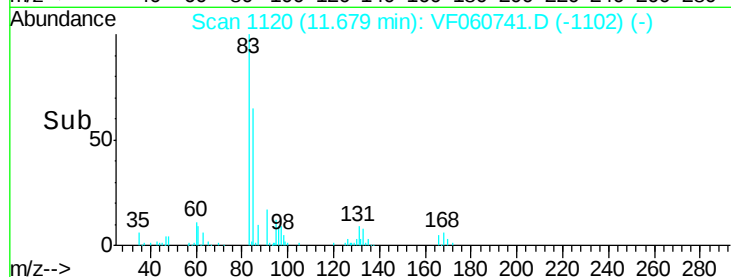
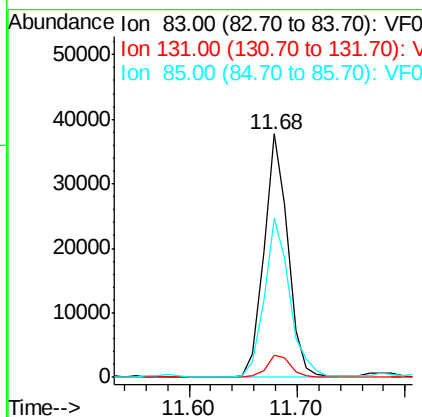
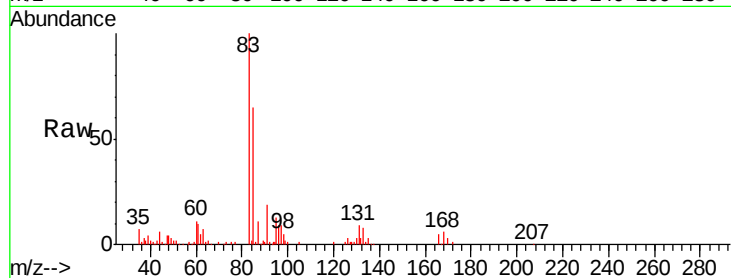
ClientSampleId :

VF1115SBS01

Tgt Ion:	83	Resp:	57912
Ion Ratio	Lower	Upper	
83	100		
131	9.1	4.2	12.4
85	65.5	32.0	96.2

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#76

1,2,3-Trichloropropane

Concen: 21.37 ug/l

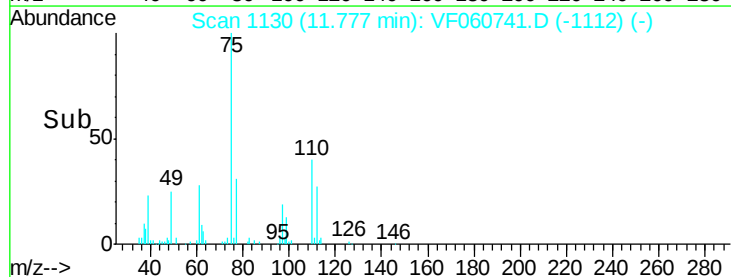
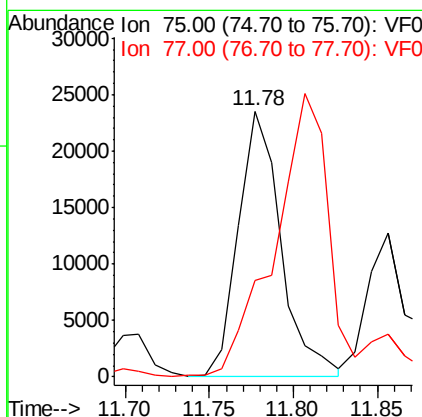
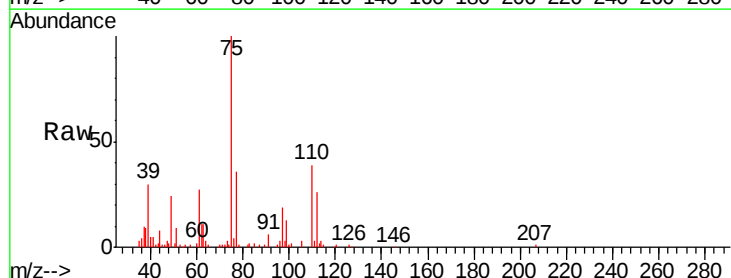
RT: 11.78 min Scan# 1130

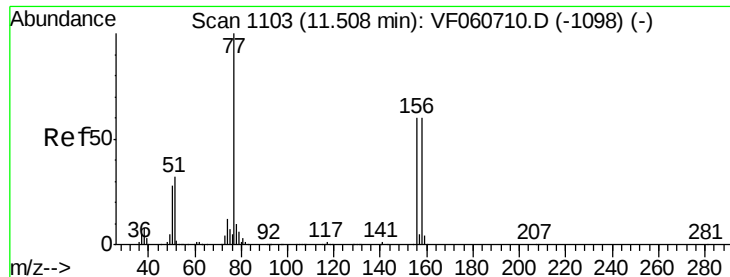
Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Tgt Ion:	75	Resp:	41680
Ion Ratio	Lower	Upper	
75	100		
77	36.4	17.0	51.0





#77

Bromobenzene

Concen: 21.55 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

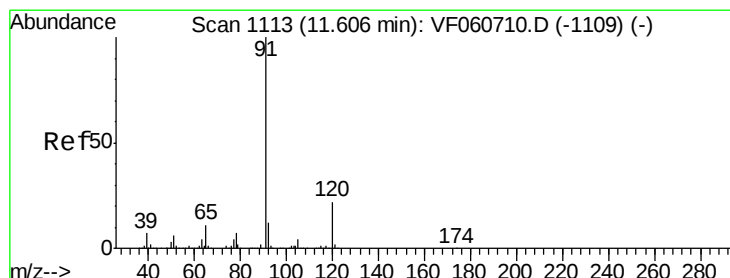
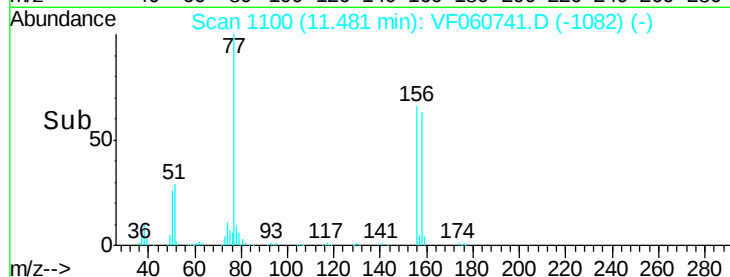
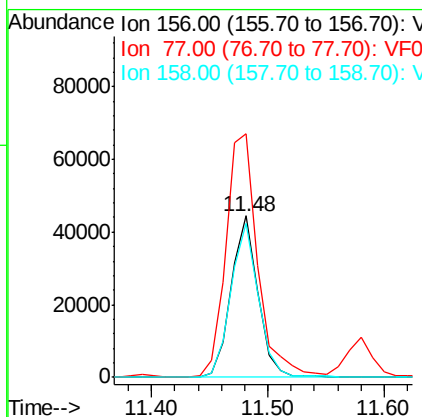
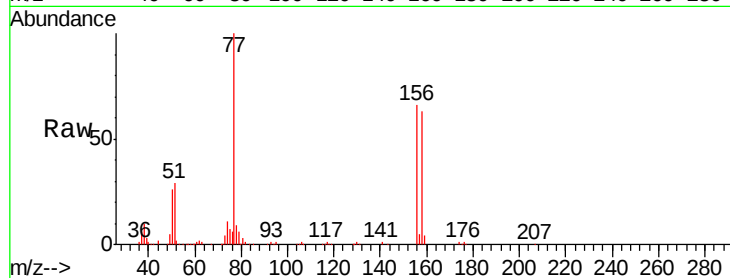
ClientSampleId :

VF1115SBS01

Tgt Ion	Ratio	Lower	Upper
156	100		
77	150.7	83.0	248.9
158	95.1	49.6	149.0

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#78

n-propylbenzene

Concen: 21.39 ug/l

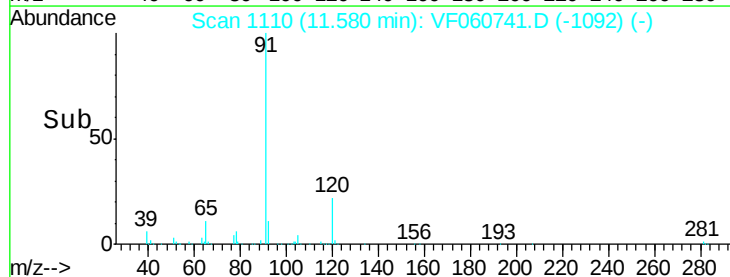
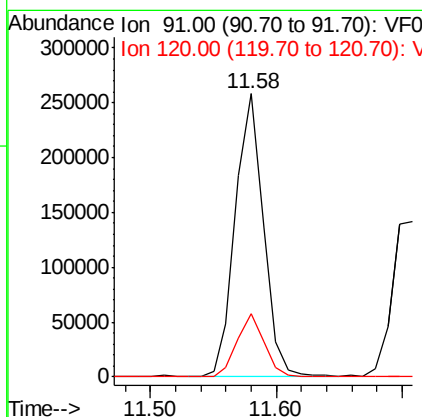
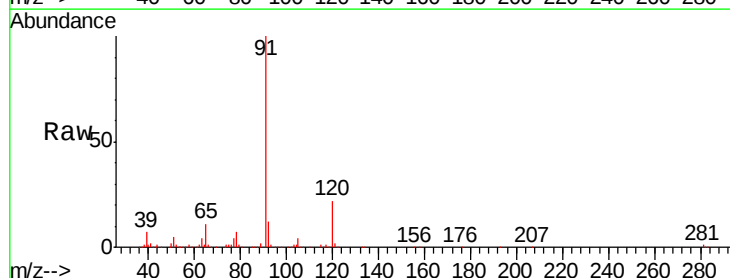
RT: 11.58 min Scan# 1110

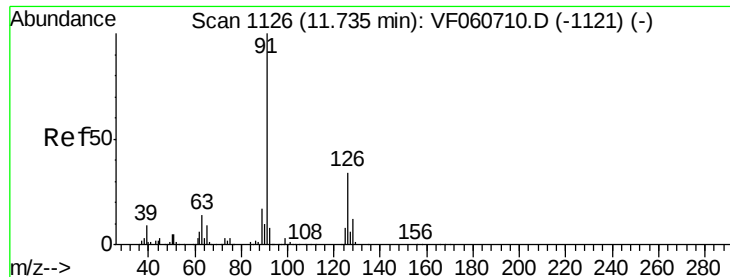
Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.2	33.5





#79

2-Chlorotoluene

Concen: 22.06 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBS01

Tgt Ion: 91 Resp: 237463

Ion Ratio Lower Upper

91 100

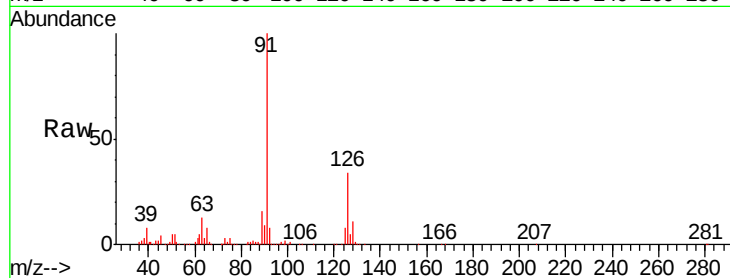
126 33.7 16.8 50.4

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

150000

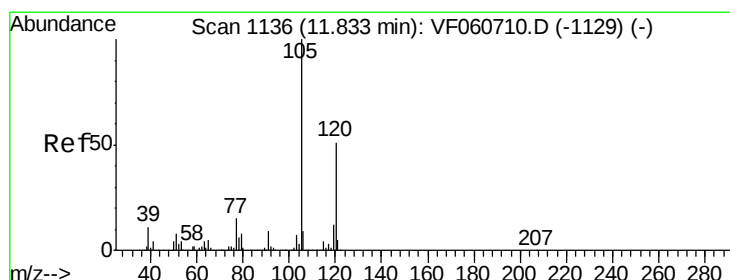
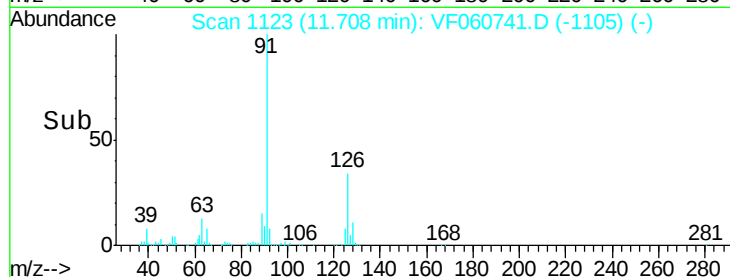
100000

50000

0

11.60 11.70 11.80

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.80 ug/l

RT: 11.81 min Scan# 1133

Delta R.T. -0.03 min

Lab File: VF060741.D

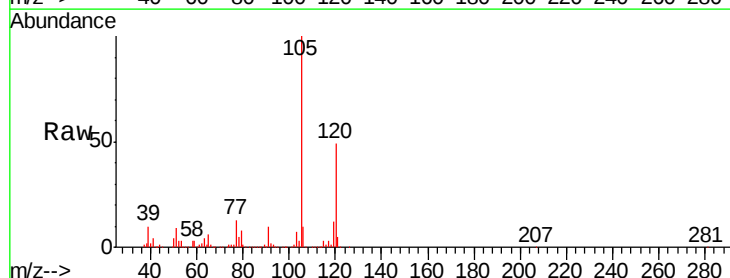
Acq: 15 Nov 2018 12:03

Tgt Ion: 105 Resp: 274931

Ion Ratio Lower Upper

105 100

120 49.5 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

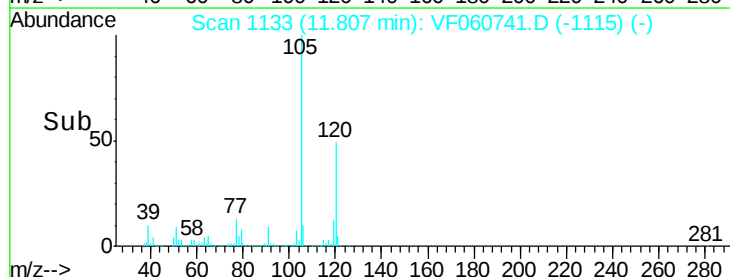
100000

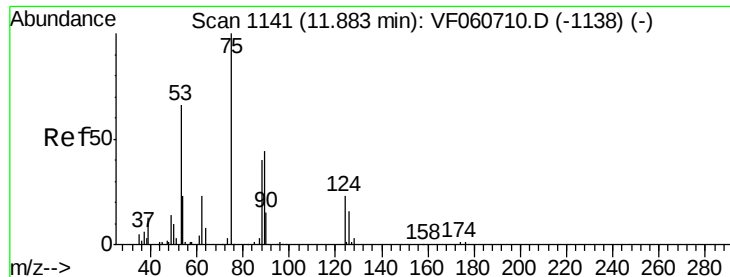
50000

0

11.70 11.80 11.90

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 21.39 ug/l m

RT: 11.86 min Scan# 1138

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Instrument :

MSVOA_F

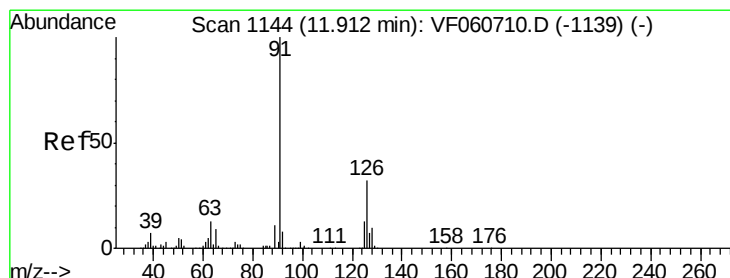
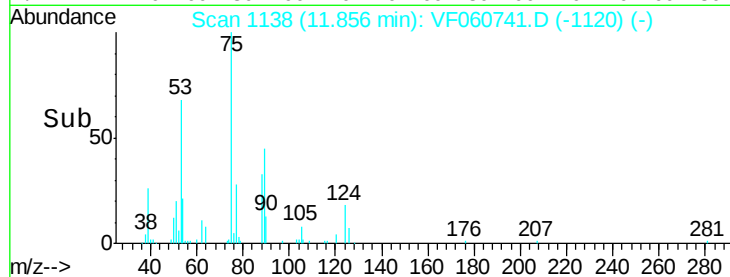
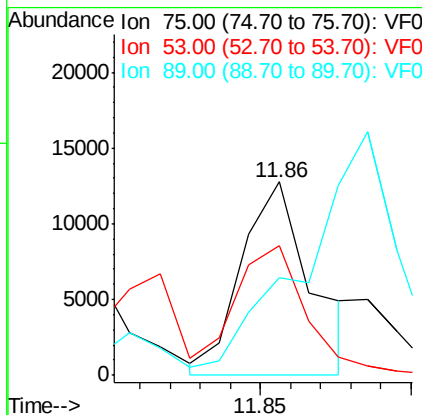
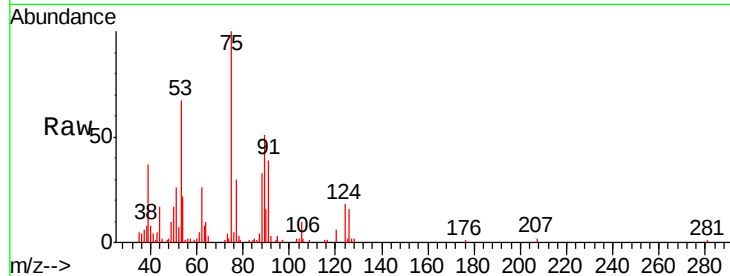
ClientSampleId :

VF1115SBS01

Tgt Ion:	75	Resp:	20491
Ion Ratio	Lower	Upper	
75	100		
53	67.0	57.0	85.4
89	50.8	37.8	56.8

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#82

4-Chlorotoluene

Concen: 21.16 ug/l

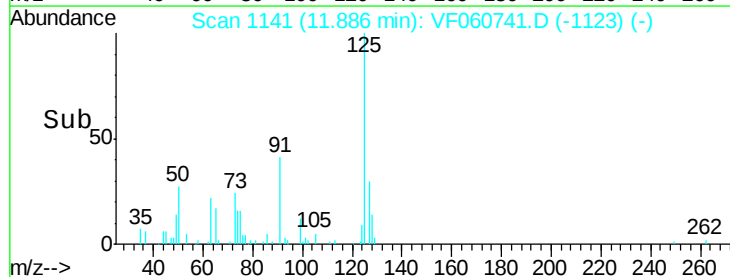
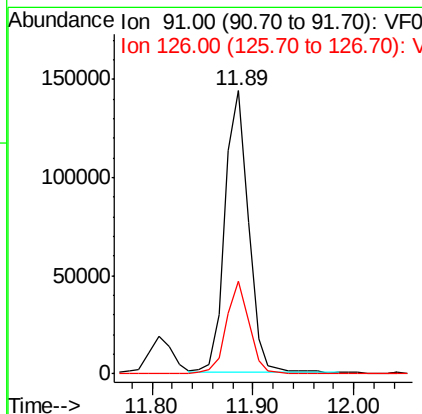
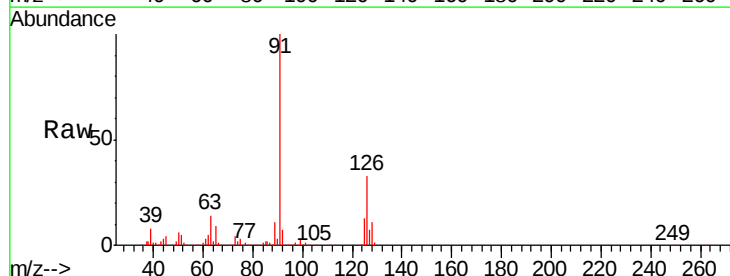
RT: 11.89 min Scan# 1141

Delta R.T. -0.03 min

Lab File: VF060741.D

Acq: 15 Nov 2018 12:03

Tgt Ion:	91	Resp:	233342
Ion Ratio	Lower	Upper	
91	100		
126	32.7	16.0	47.9





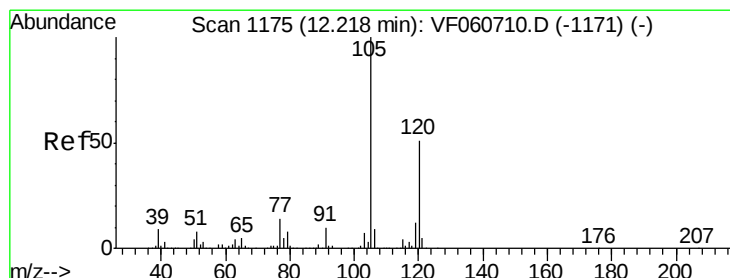
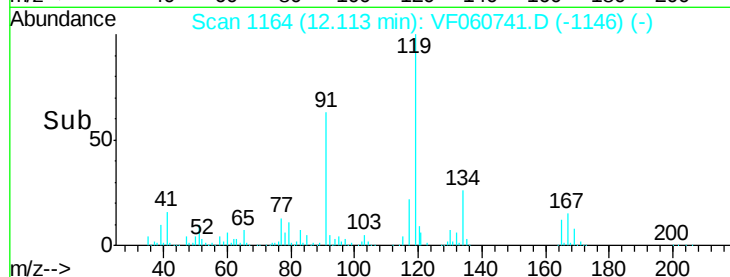
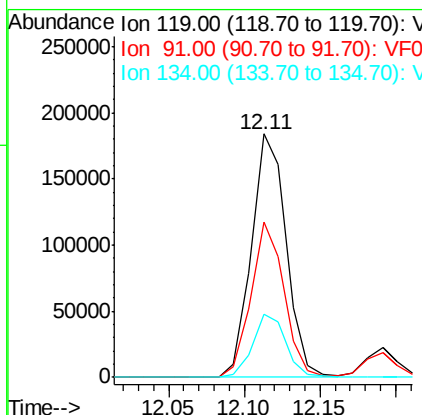
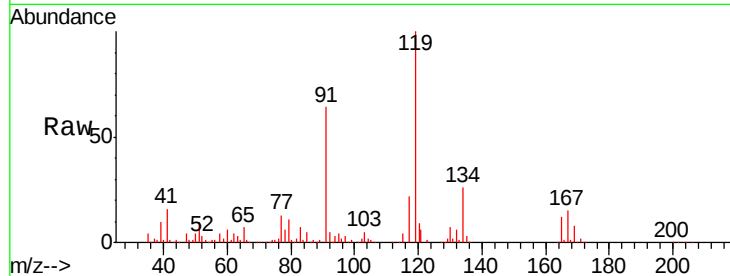
#83
 tert-Butylbenzene
 Concen: 22.07 ug/l
 RT: 12.11 min Scan# 1164
 Delta R.T. -0.03 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	295478		
91	63.6	31.4	94.3	
134	25.8	12.8	38.4	

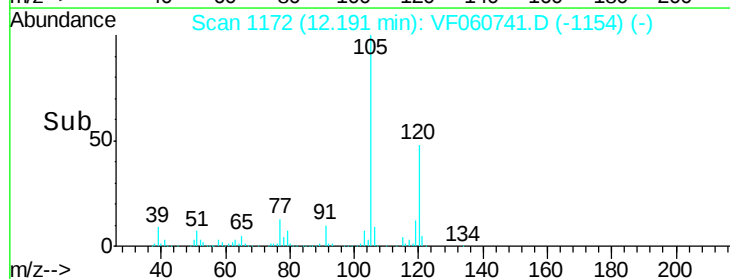
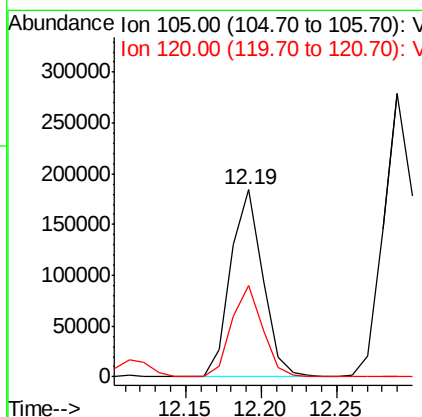
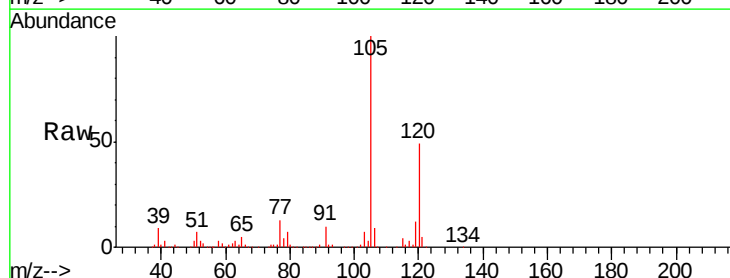
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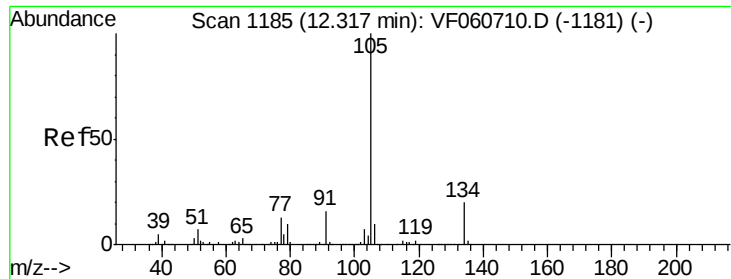
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.02 ug/l
 RT: 12.19 min Scan# 1172
 Delta R.T. -0.03 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	274111		
120	48.6	25.5	76.5	





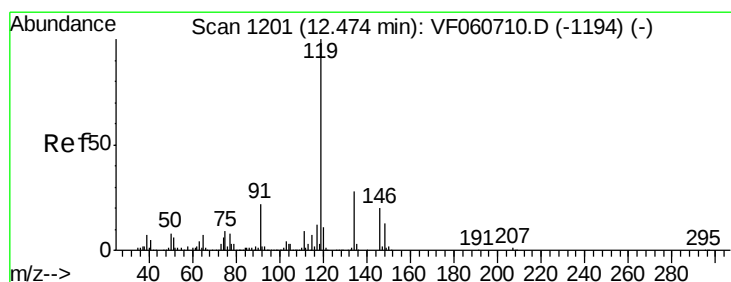
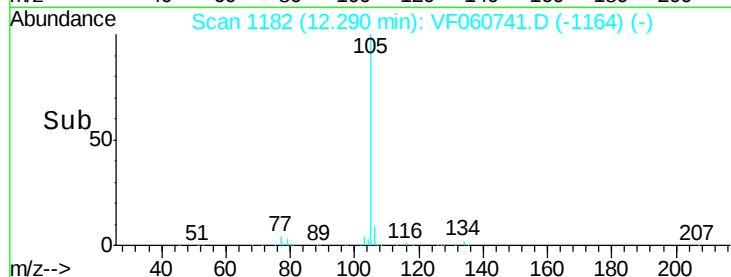
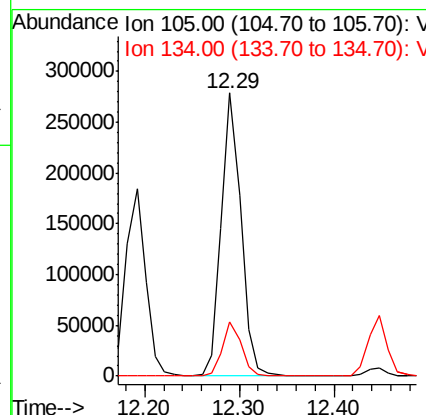
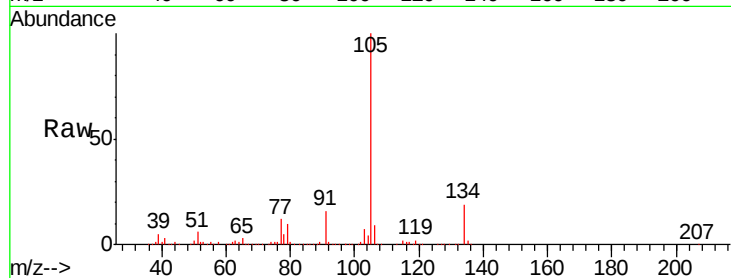
#85
 sec-Butylbenzene
 Concen: 22.26 ug/l
 RT: 12.29 min Scan# 1182
 Delta R.T. -0.03 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBS01

Tgt Ion	Ratio	Lower	Upper
105	100		
134	19.1	10.1	30.3

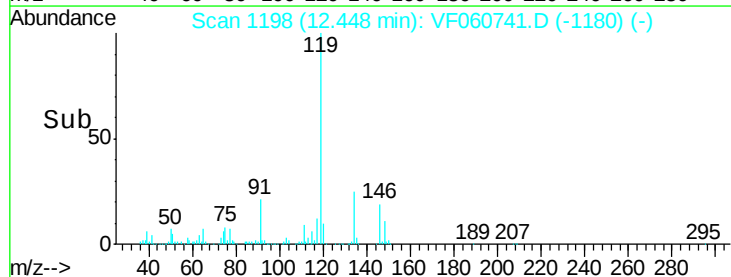
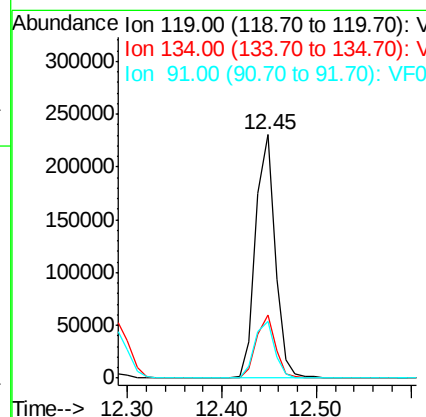
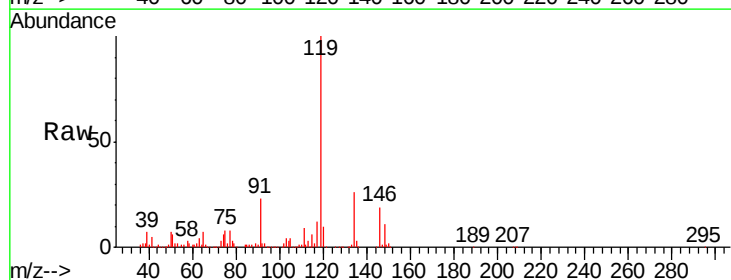
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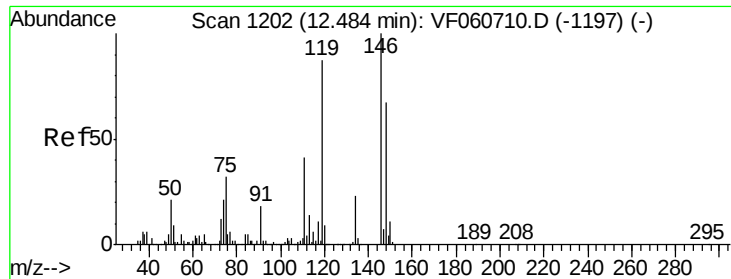
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#86
 p-Isopropyltoluene
 Concen: 21.94 ug/l
 RT: 12.45 min Scan# 1198
 Delta R.T. -0.03 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.9	41.7
91	23.1	11.3	33.9





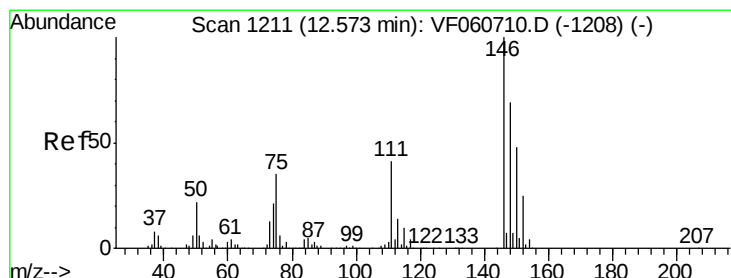
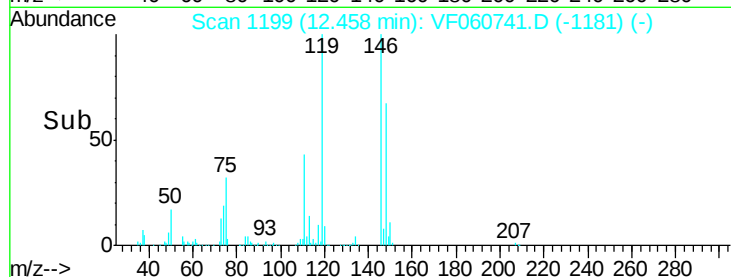
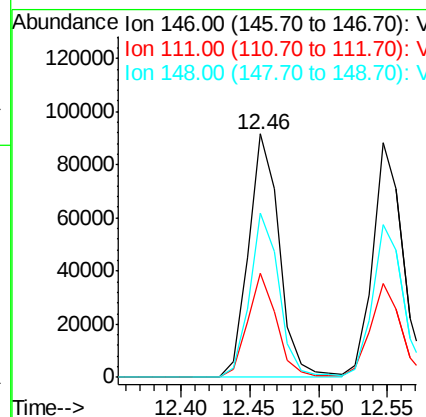
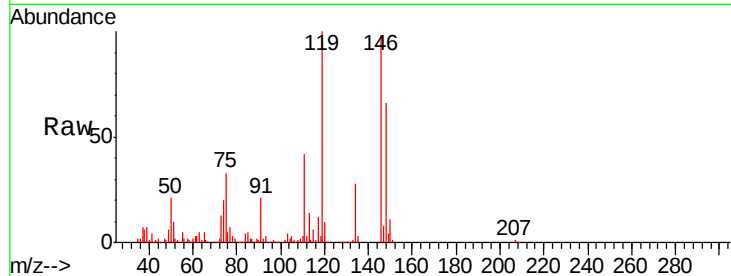
#87
 1,3-Dichlorobenzene
 Concen: 21.74 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.03 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.3	60.8
148	67.2	33.3	99.9

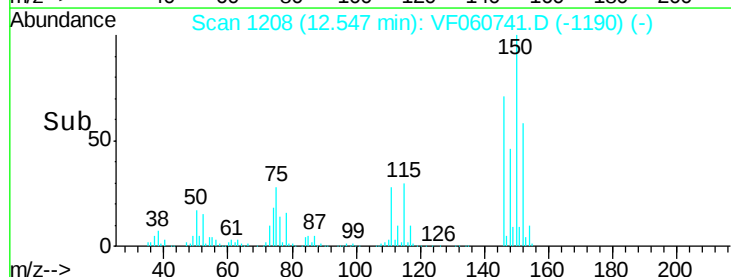
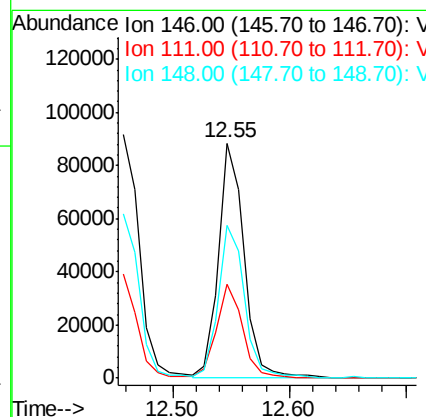
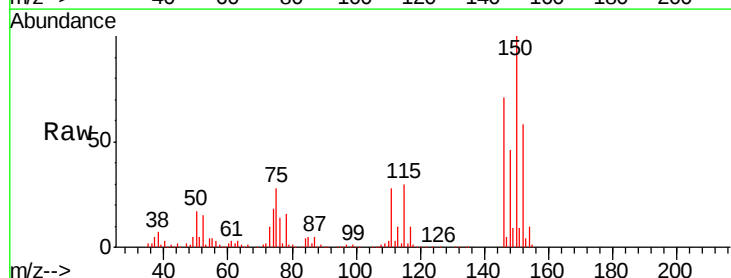
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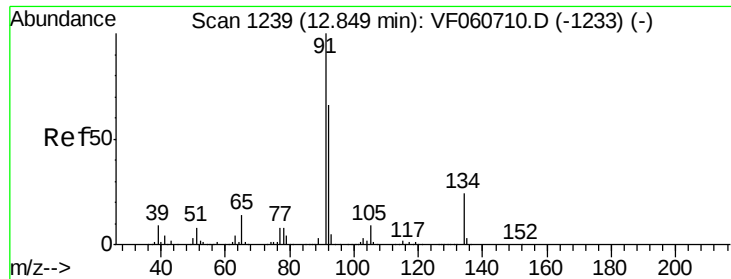
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#88
 1,4-Dichlorobenzene
 Concen: 21.26 ug/l
 RT: 12.55 min Scan# 1208
 Delta R.T. -0.03 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.6	61.9
148	65.2	34.7	104.1





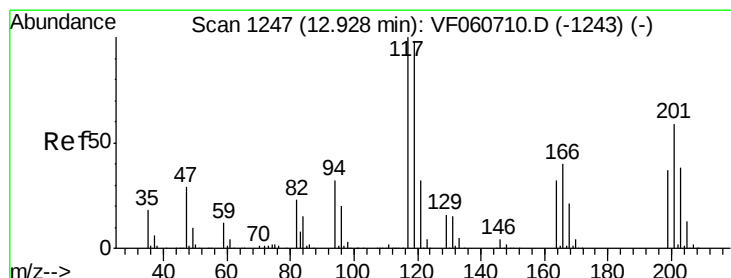
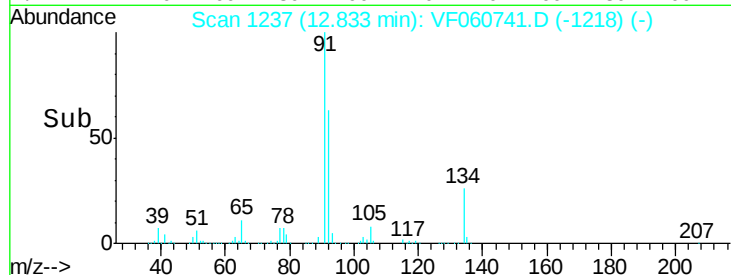
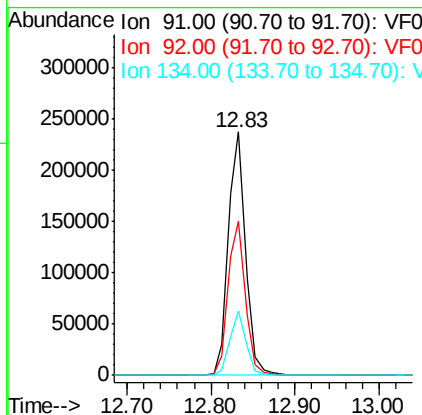
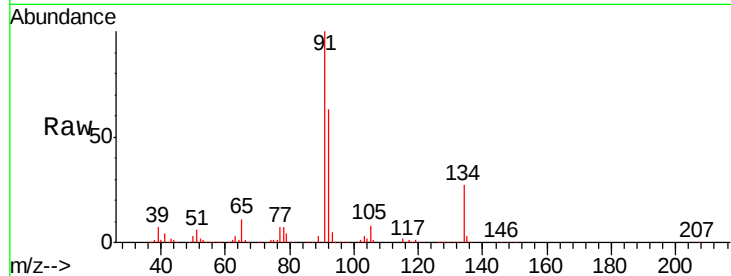
#89
n-Butylbenzene
Concen: 21.82 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	63.0	33.1	99.2
134	26.5	11.9	35.9

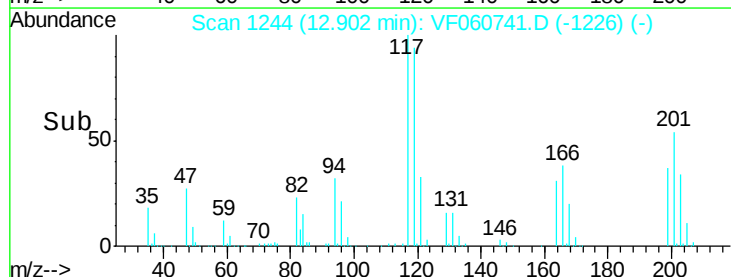
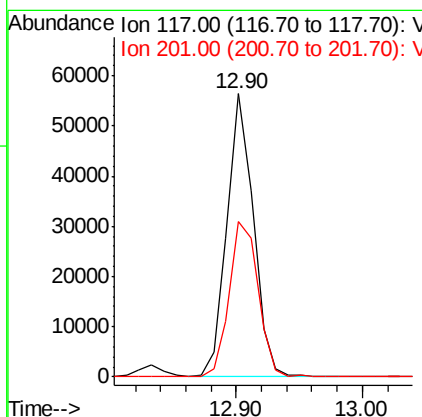
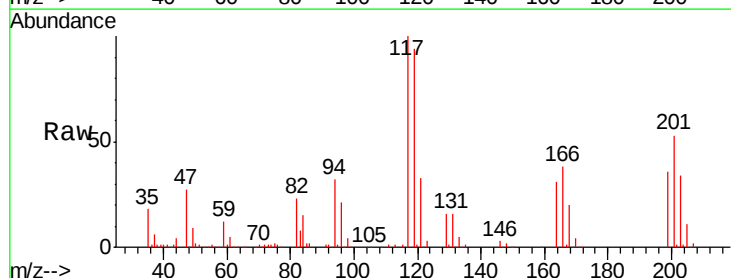
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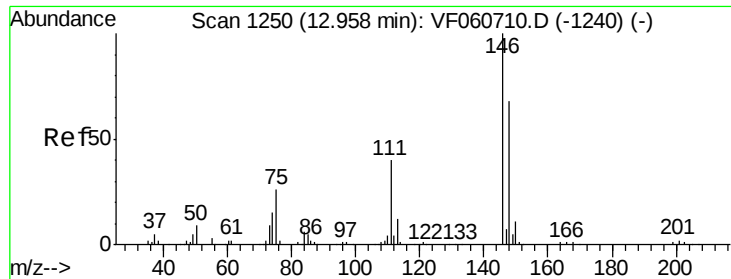
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#90
Hexachloroethane
Concen: 22.17 ug/l
RT: 12.90 min Scan# 1244
Delta R.T. -0.03 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Lower	Upper
117	100		
201	54.9	29.4	88.3





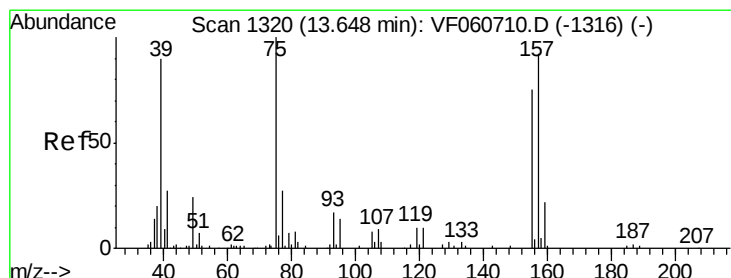
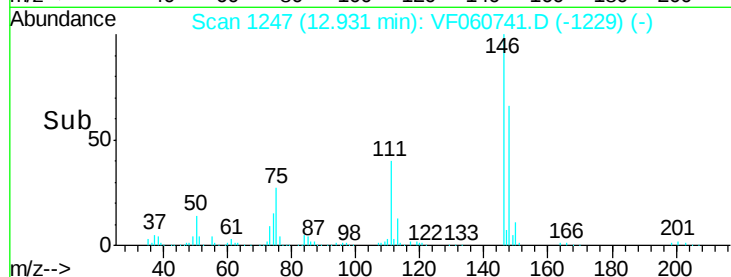
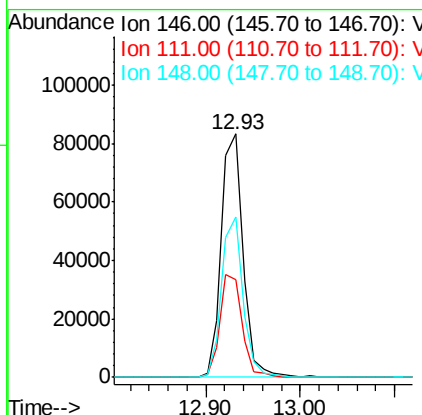
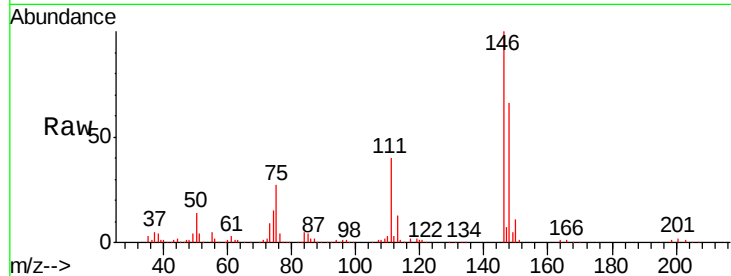
#91
 1,2-Dichlorobenzene
 Concen: 21.52 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.03 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.3	60.8
148	65.8	34.1	102.3

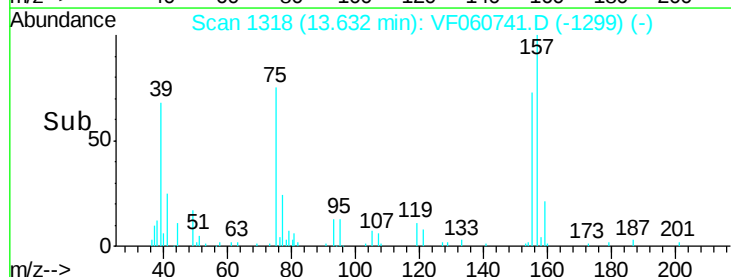
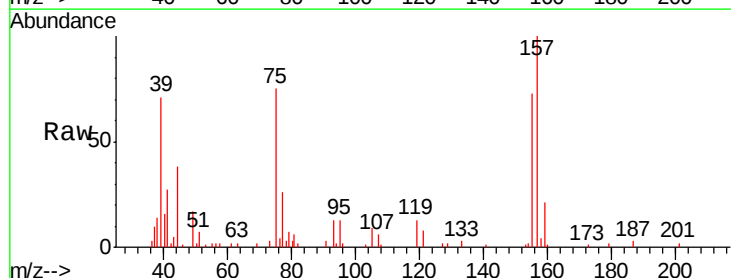
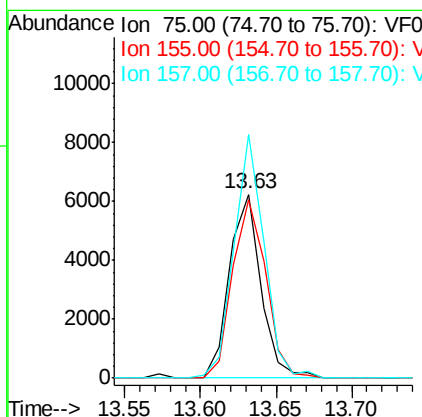
Manual Integrations
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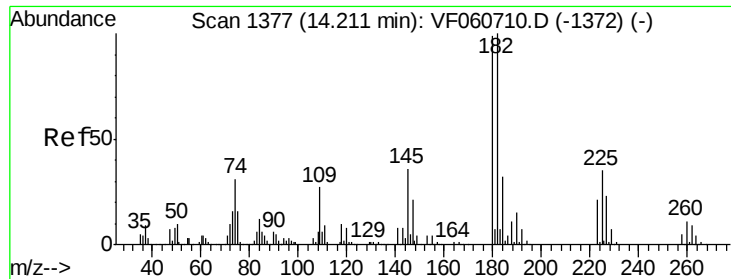
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.28 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.2	37.4	112.2
157	132.7	46.0	138.0





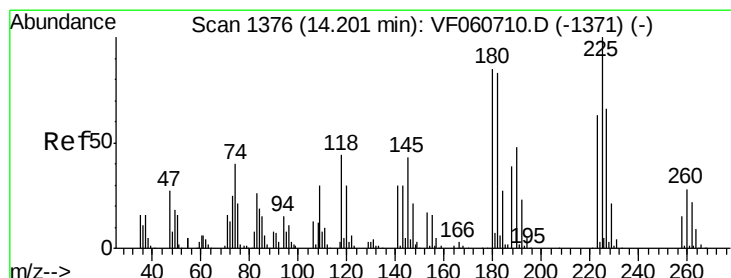
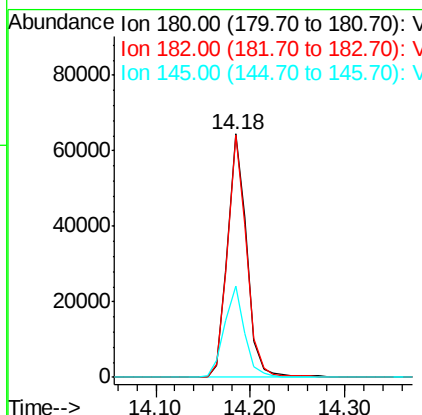
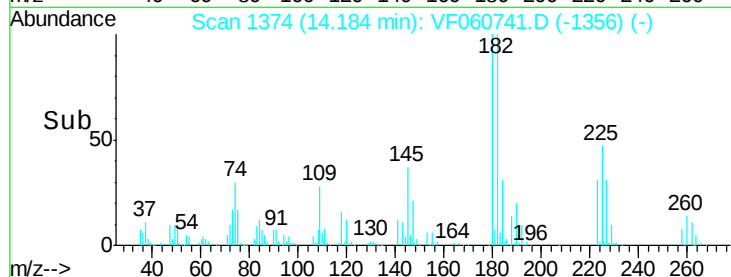
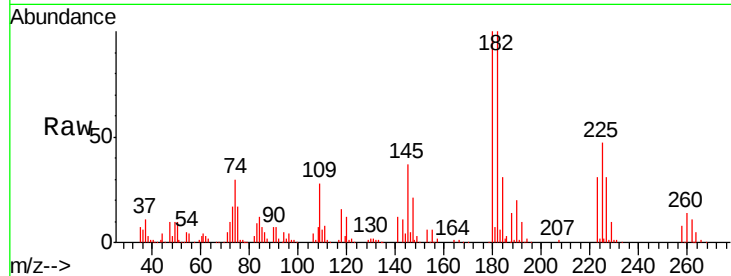
#93
 1,2,4-Trichlorobenzene
 Concen: 20.55 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.03 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	91500		
182	99.7	50.3	151.0	
145	37.4	18.3	54.9	

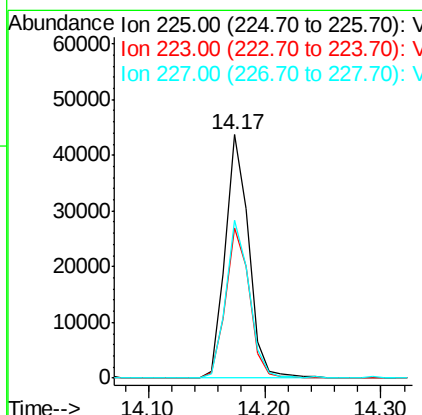
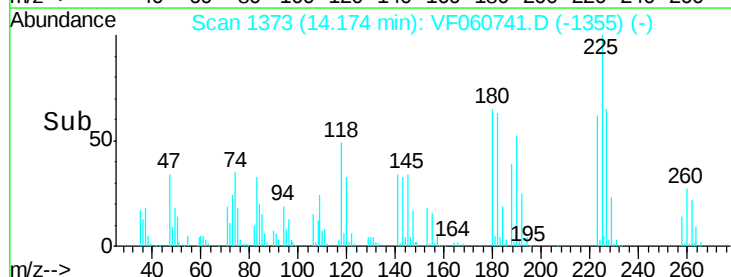
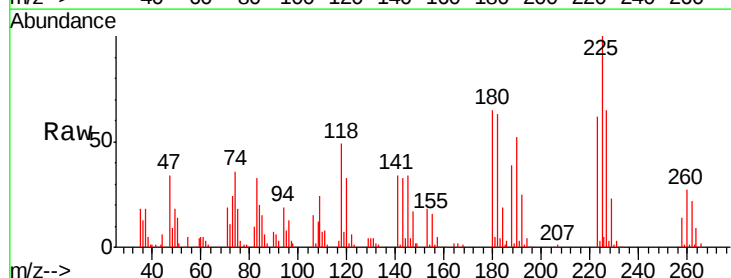
Manual Integrations
 APPROVED

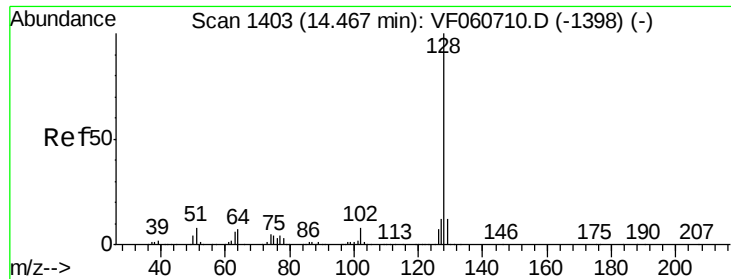
MMDadoda
 11/16/2018 1:25:44 PM



#94
 Hexachlorobutadiene
 Concen: 21.08 ug/l
 RT: 14.17 min Scan# 1373
 Delta R.T. -0.03 min
 Lab File: VF060741.D
 Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	61318		
223	61.7	31.5	94.5	
227	65.1	33.0	99.0	





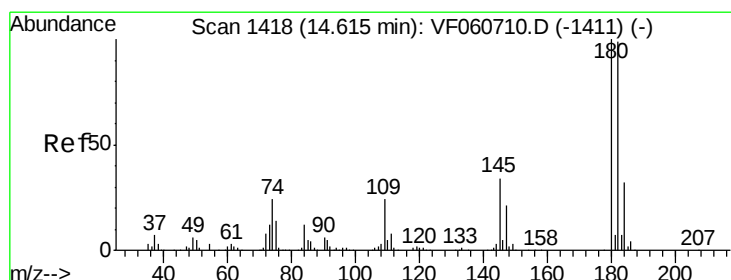
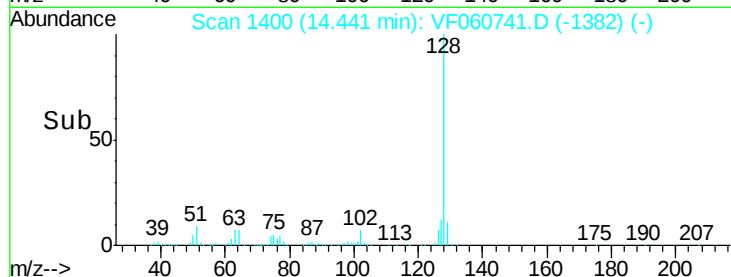
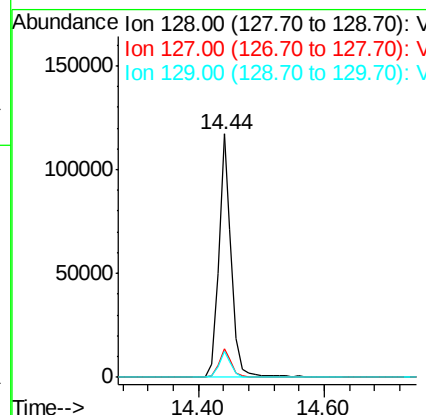
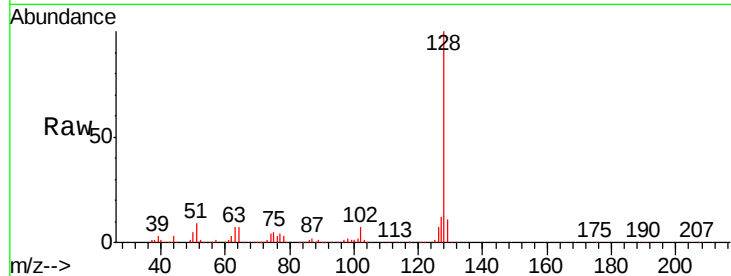
#95
Naphthalene
Concen: 20.23 ug/l
RT: 14.44 min Scan# 1400
Delta R.T. -0.03 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBS01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.8	14.6
129	10.8	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:25:44 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.33 ug/l
RT: 14.59 min Scan# 1415
Delta R.T. -0.03 min
Lab File: VF060741.D
Acq: 15 Nov 2018 12:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.1	49.6	149.0
145	35.4	16.9	50.7

