

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111218\
 Data File : VF060704.D
 Acq On : 12 Nov 2018 00:48
 Operator : VA/AP
 Sample : VF1112SBSD01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1112SBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/13/2018 2:11:11 PM

Quant Time: Nov 13 05:04:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	184549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	314517	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	300212	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	165065	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	112025	60.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.16%	
35) Dibromofluoromethane	4.11	113	135204	55.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.28%	
50) Toluene-d8	7.55	98	355088	49.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.66%	
62) 4-Bromofluorobenzene	11.41	95	166157	52.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	80872	41.237	ug/l	97
3) Chloromethane	1.10	50	44807	27.741	ug/l #	86
4) Vinyl Chloride	1.15	62	41247	27.714	ug/l	91
5) Bromomethane	1.32	94	25837	30.927	ug/l	82
6) Chloroethane	1.38	64	16108	28.092	ug/l	93
7) Trichlorofluoromethane	1.49	101	90281m	32.410	ug/l	
8) Diethyl Ether	1.62	74	11112	21.523	ug/l	80
9) 1,1,2-Trichlorotrifluoroet	1.81	101	48233	30.301	ug/l	97
10) Methyl Iodide	1.89	142	70663m	26.976	ug/l	
11) Tert butyl alcohol	2.57	59	10890	107.660	ug/l	94
12) 1,1-Dichloroethene	1.78	96	35294	26.325	ug/l #	68
13) Acrolein	2.00	56	6495	83.794	ug/l	88
14) Allyl chloride	2.09	41	58944	26.926	ug/l	90
15) Acrylonitrile	2.94	53	23763	106.932	ug/l	94
16) Acetone	2.24	43	52031	118.419	ug/l #	90
17) Carbon Disulfide	1.83	76	92415m	24.471	ug/l	
18) Methyl Acetate	2.33	43	17270	25.541	ug/l	94
19) Methyl tert-butyl Ether	2.42	73	85168	27.175	ug/l	93
20) Methylene Chloride	2.18	84	37296m	26.006	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	35477	25.223	ug/l	98
22) Diisopropyl ether	2.80	45	114401	24.665	ug/l	93
23) Vinyl Acetate	3.18	43	279976	100.467	ug/l	100
24) 1,1-Dichloroethane	2.87	63	77193	28.757	ug/l	100
25) 2-Butanone	4.33	43	84898	81.069	ug/l	93
26) 2,2-Dichloropropane	3.59	77	56013	27.888	ug/l	93
27) cis-1,2-Dichloroethene	3.47	96	63456	23.633	ug/l	92
28) Bromochloromethane	3.71	49	39476	23.434	ug/l	99
29) Tetrahydrofuran	4.07	42	37121	107.896	ug/l	95
30) Chloroform	3.85	83	112892	26.583	ug/l	98
31) Cyclohexane	3.69	56	84408	22.787	ug/l	94
32) 1,1,1-Trichloroethane	4.09	97	92332	31.129	ug/l	97
36) 1,1-Dichloropropene	4.27	75	82373	23.786	ug/l	95
37) Ethyl Acetate	4.11	43	32526	19.566	ug/l #	86
38) Carbon Tetrachloride	3.97	117	80241	27.116	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	94474	22.355	ug/l	99
40) Benzene	4.62	78	183058	21.777	ug/l	99
41) Methacrylonitrile	4.74	41	18215	19.348	ug/l #	92
42) 1,2-Dichloroethane	4.94	62	62646	25.966	ug/l	91
43) Isopropyl Acetate	6.95	43	36657	17.433	ug/l #	96
44) Trichloroethene	5.50	130	59090	23.390	ug/l	97
45) 1,2-Dichloropropane	6.23	63	48353	22.491	ug/l	97
46) Dibromomethane	6.08	93	33420	24.503	ug/l	96
47) Bromodichloromethane	6.38	83	81426	24.751	ug/l	98
48) Methyl methacrylate	6.70	41	25272	19.123	ug/l	88
49) 1,4-Dioxane	6.70	88	4773	345.246	ug/l #	59
51) 4-Methyl-2-Pentanone	8.25	43	141936	100.375	ug/l	98
52) Toluene	7.62	92	124030	22.651	ug/l	96
53) t-1,3-Dichloropropene	8.27	75	63167	22.092	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	82578	22.859	ug/l	93
55) 1,1,2-Trichloroethane	8.49	97	34136	21.423	ug/l	95
56) Ethyl methacrylate	8.62	69	36508	17.808	ug/l	92
57) 1,3-Dichloropropane	8.84	76	61466	21.984	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.62	63	19199	136.973	ug/l	100
59) 2-Hexanone	9.49	43	93563	82.803	ug/l	98
60) Dibromochloromethane	8.71	129	48785	21.892	ug/l	94
61) 1,2-Dibromoethane	8.98	107	36930	22.039	ug/l	99
64) Tetrachloroethene	8.14	164	52257	22.211	ug/l	95
65) Chlorobenzene	9.79	112	136296	22.200	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.92	131	58457	22.534	ug/l	98
67) Ethyl Benzene	9.89	91	244803	21.973	ug/l	98
68) m/p-Xylenes	10.13	106	177538	42.305	ug/l	89
69) o-Xylene	10.71	106	99310	21.672	ug/l	80
70) Styrene	10.79	104	146273	22.033	ug/l	96
71) Bromoform	10.77	173	26393	19.699	ug/l	95
73) Isopropylbenzene	11.12	105	317060	24.630	ug/l	96
74) N-amyl acetate	11.37	43	62523	16.804	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.70	83	51391	21.871	ug/l	100
76) 1,2,3-Trichloropropane	11.86	75	22679	19.640	ug/l	93
77) Bromobenzene	11.49	156	63796	22.648	ug/l	97
78) n-propylbenzene	11.59	91	358063	23.773	ug/l	99
79) 2-Chlorotoluene	11.72	91	205256	23.863	ug/l	94
80) 1,3,5-Trimethylbenzene	11.82	105	247761	23.350	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	16688m	18.388	ug/l	
82) 4-Chlorotoluene	11.89	91	204993	22.843	ug/l	97
83) tert-Butylbenzene	12.13	119	269574	24.868	ug/l	96
84) 1,2,4-Trimethylbenzene	12.20	105	243432	23.427	ug/l	94
85) sec-Butylbenzene	12.31	105	349136	23.413	ug/l	100
86) p-Isopropyltoluene	12.46	119	285177	23.223	ug/l	95
87) 1,3-Dichlorobenzene	12.47	146	123895	22.409	ug/l	95
88) 1,4-Dichlorobenzene	12.56	146	117860	22.475	ug/l	98
89) n-Butylbenzene	12.84	91	303676	22.885	ug/l	95
90) Hexachloroethane	12.91	117	73848	23.648	ug/l	77
91) 1,2-Dichlorobenzene	12.94	146	122374	23.659	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8400	20.577	ug/l	81

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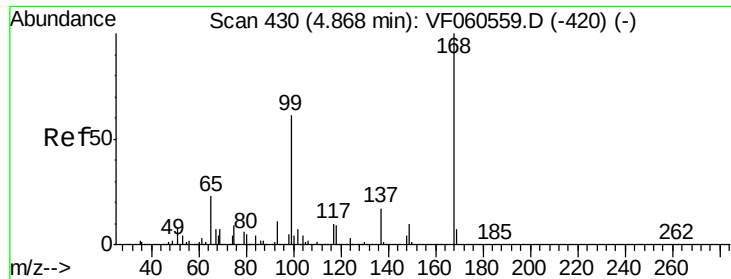
Manual Integrations
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QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	84512	24.051	µg/l	90
94) Hexachlorobutadiene	14.19	225	51644	22.681	µg/l	95
95) Naphthalene	14.45	128	152836	21.731	µg/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	76599	23.076	µg/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBSD01

Tot Ion:168 Resp: 184549

Ion Ratio Lower Upper

168 100

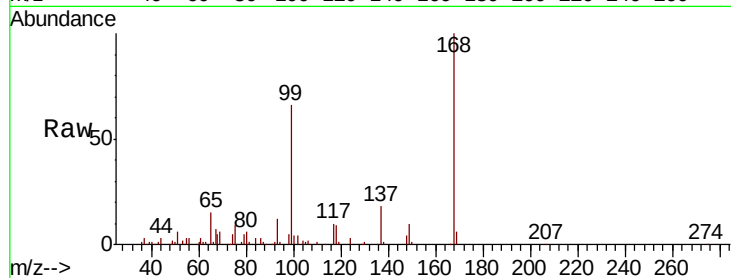
99 65.6 48.6 72.8

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

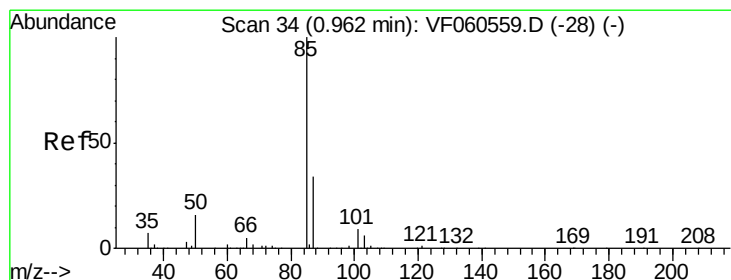
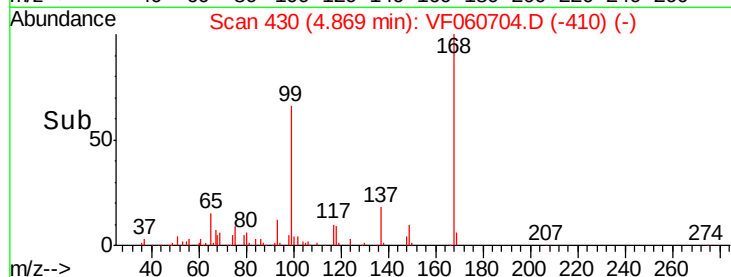
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 41.237 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060704.D

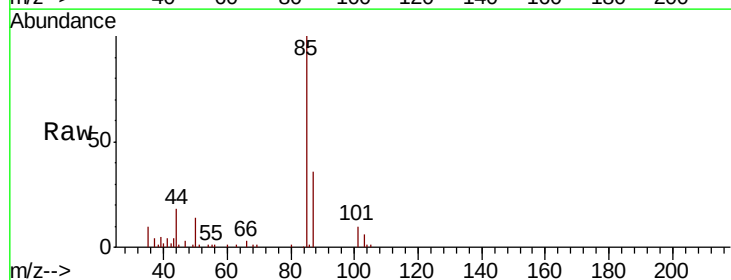
Acq: 12 Nov 2018 00:48

Tgt Ion: 85 Resp: 80872

Ion Ratio Lower Upper

85 100

87 35.5 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

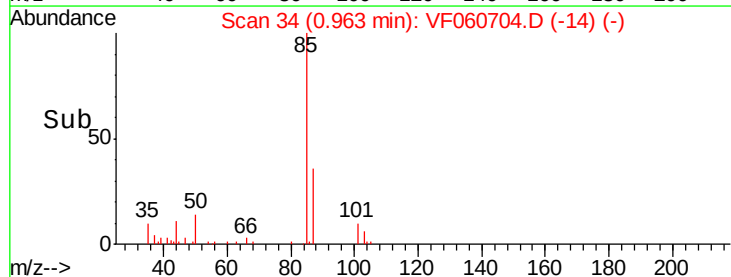
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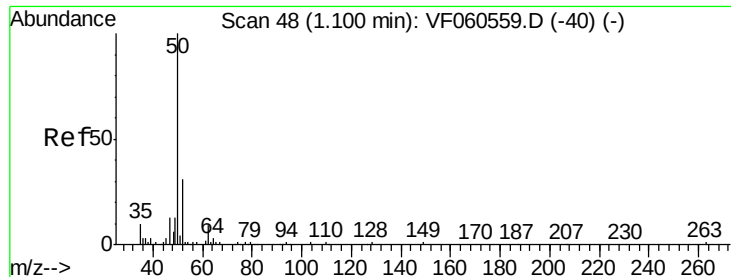
10000

5000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 27.741 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 50 Resp: 44807

Ion Ratio Lower Upper

50 100

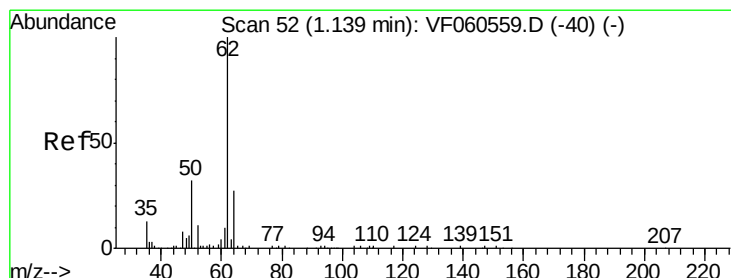
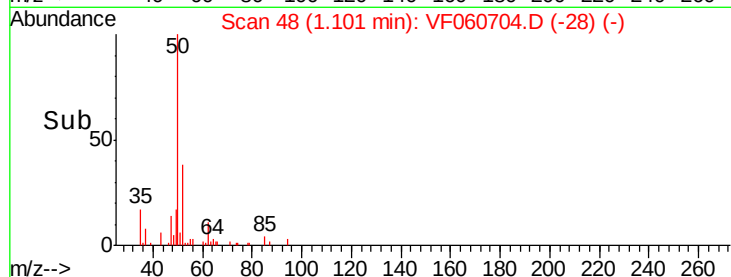
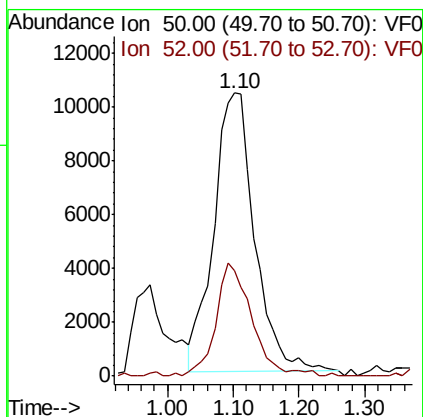
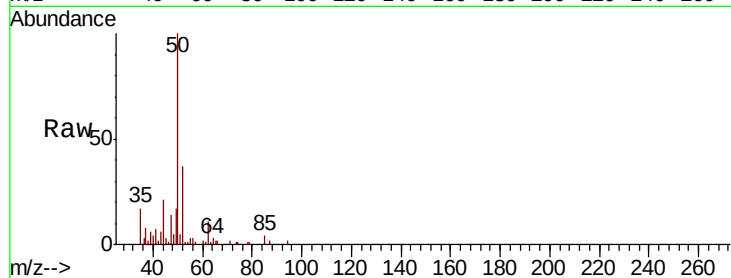
52 37.4 24.0 36.0#

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#4

Vinyl Chloride

Concen: 27.714 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.01 min

Lab File: VF060704.D

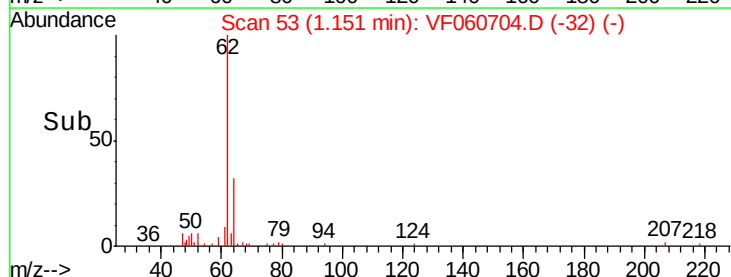
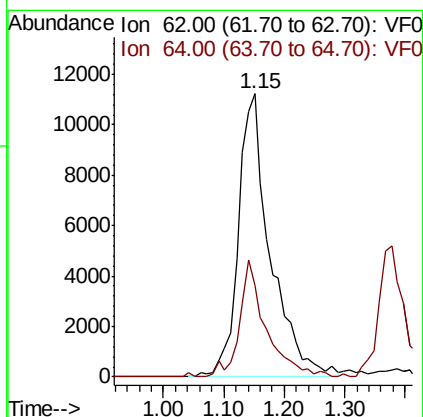
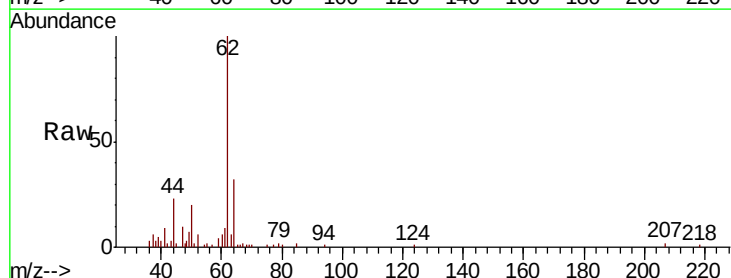
Acq: 12 Nov 2018 00:48

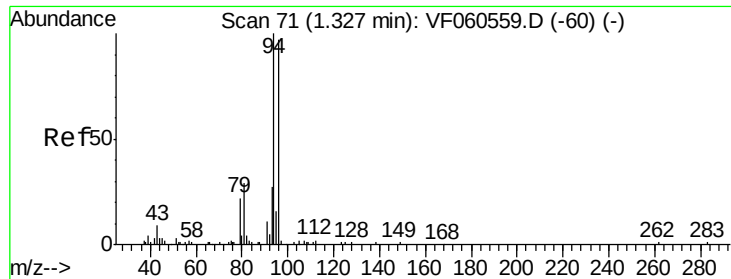
Tgt Ion: 62 Resp: 41247

Ion Ratio Lower Upper

62 100

64 32.1 21.8 32.6





#5

Bromomethane

Concen: 30.927 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 94 Resp: 25837

Ion Ratio Lower Upper

94 100

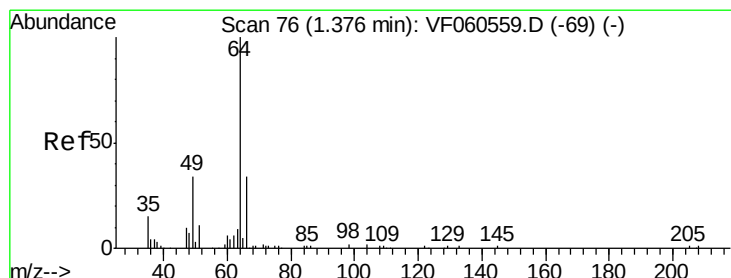
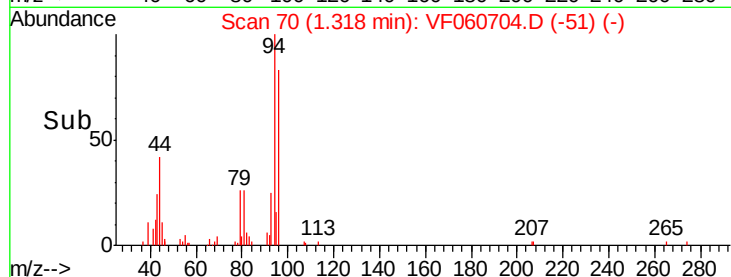
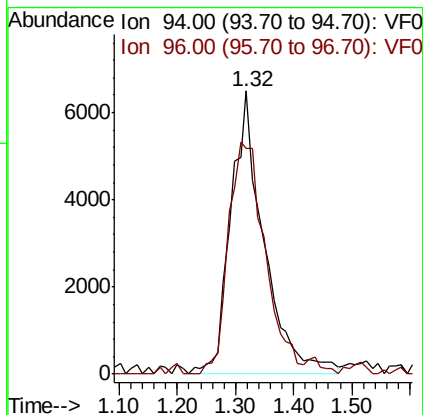
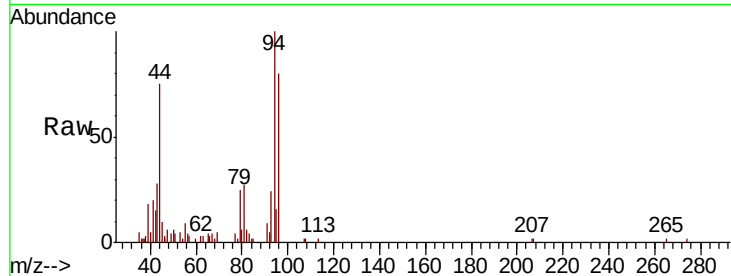
96 79.8 77.9 116.9

Manual Integrations

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#6

Chloroethane

Concen: 28.092 ug/l

RT: 1.38 min Scan# 76

Delta R.T. 0.00 min

Lab File: VF060704.D

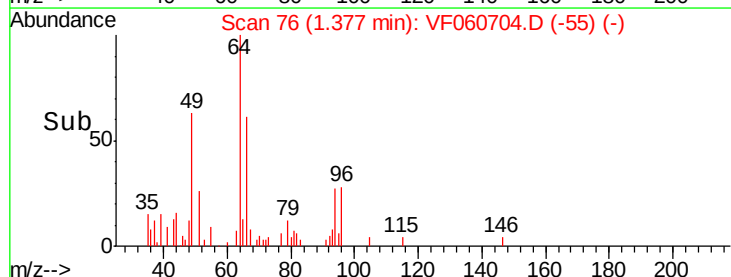
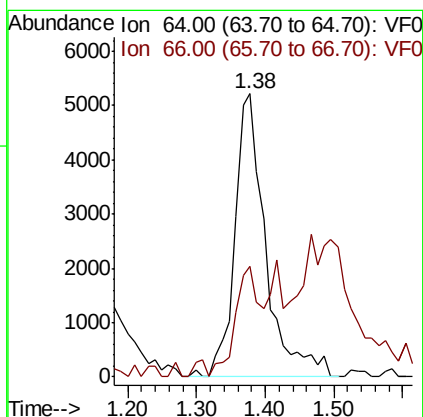
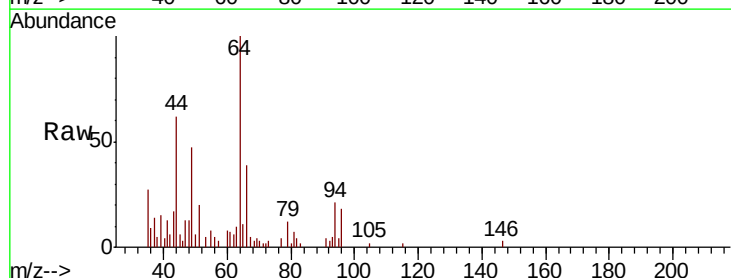
Acq: 12 Nov 2018 00:48

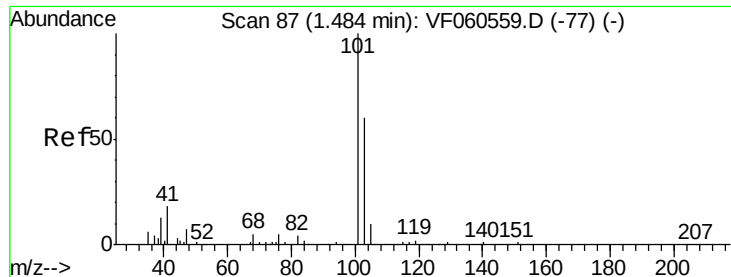
Tgt Ion: 64 Resp: 16108

Ion Ratio Lower Upper

64 100

66 39.1 27.8 41.8





#7

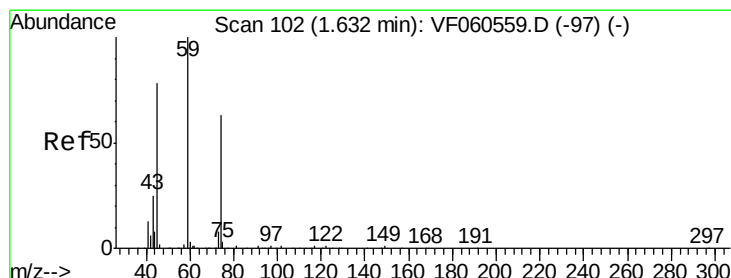
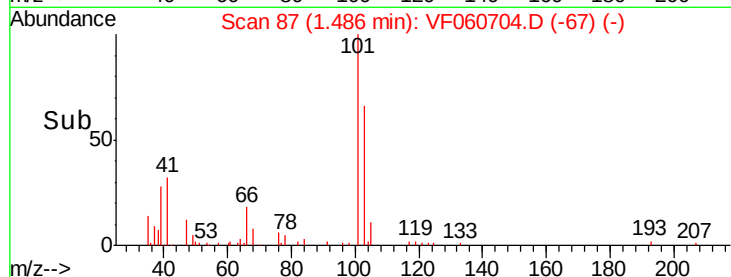
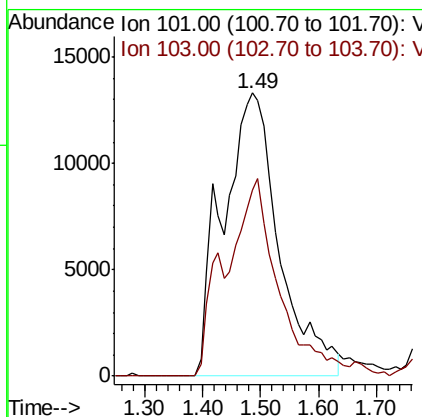
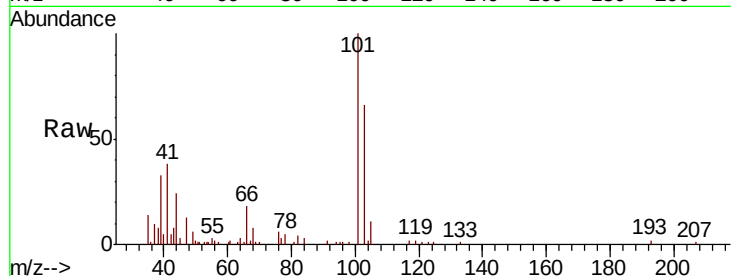
Trichlorofluoromethane
Concen: 32.410 ug/l m
RT: 1.49 min Scan# 87
Delta R.T. 0.00 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
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ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.7	48.0	72.0

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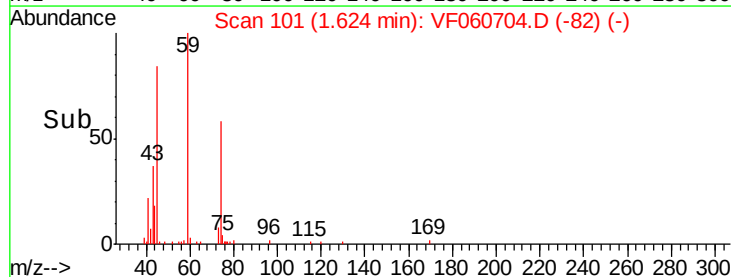
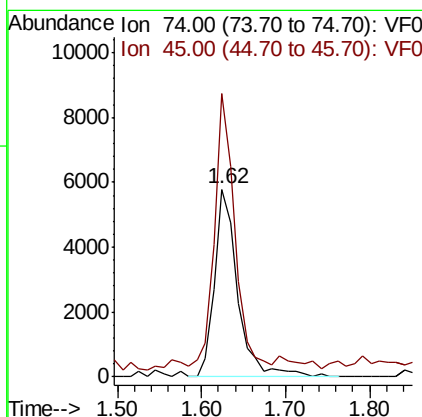
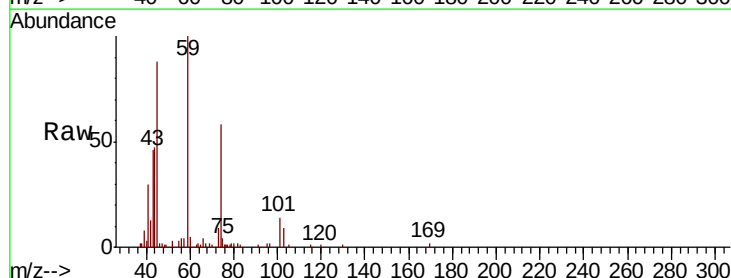
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11/13/2018 2:11:11 PM

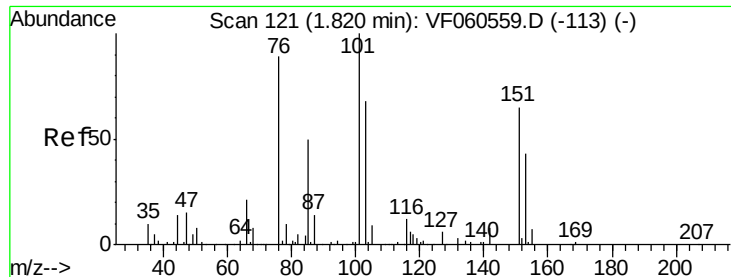


#8

Diethyl Ether
Concen: 21.523 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Lower	Upper
74	100		
45	150.5	63.8	191.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 30.301 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

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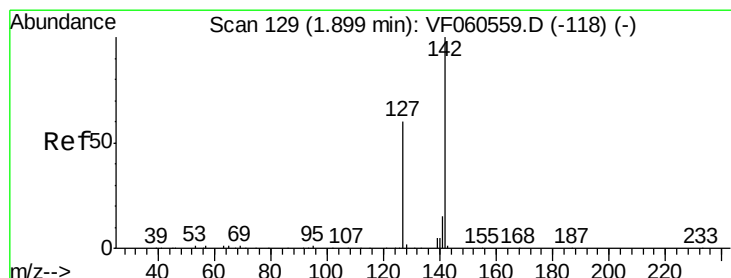
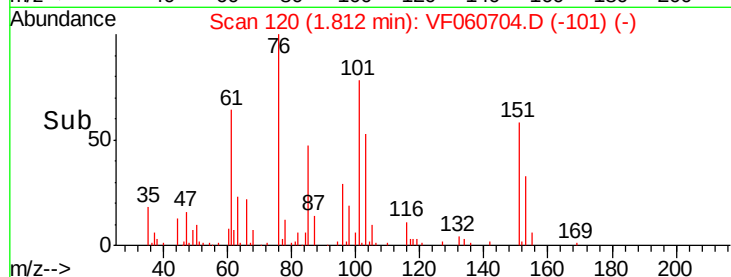
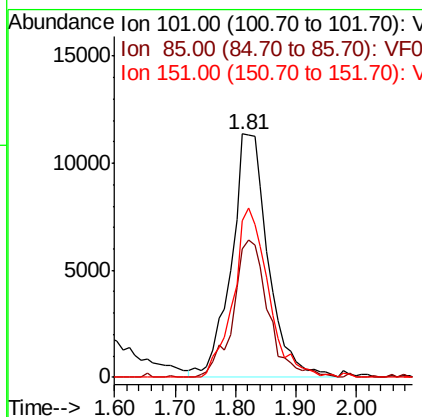
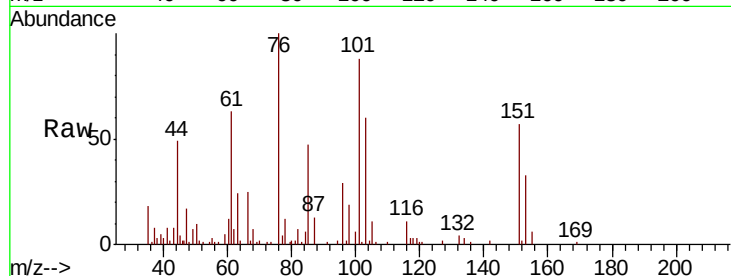
ClientSampleId :

VF1112SBSD01

Tot Ion:	101	Resp:	48233
Ion Ratio	Lower	Upper	
101	100		
85	52.9	39.8	59.6
151	64.5	50.8	76.2

Manual Integrations
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11/13/2018 2:11:11 PM



#10

Methyl Iodide

Concen: 26.976 ug/l m

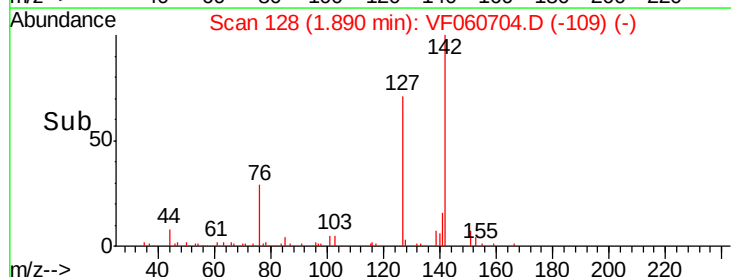
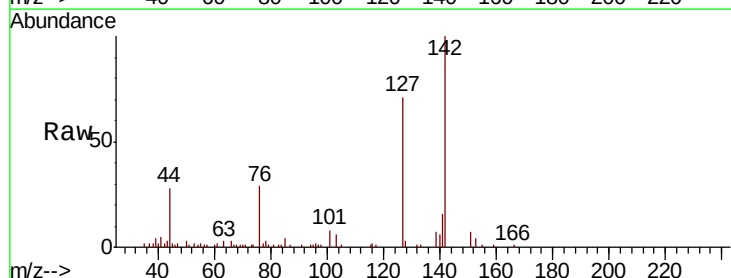
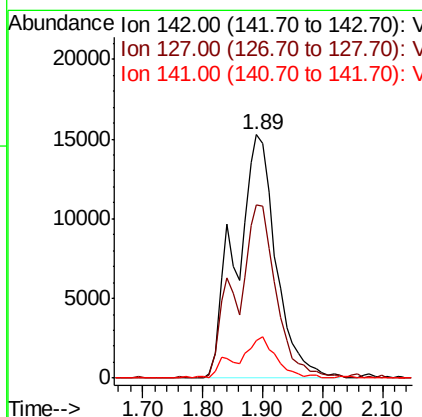
RT: 1.89 min Scan# 128

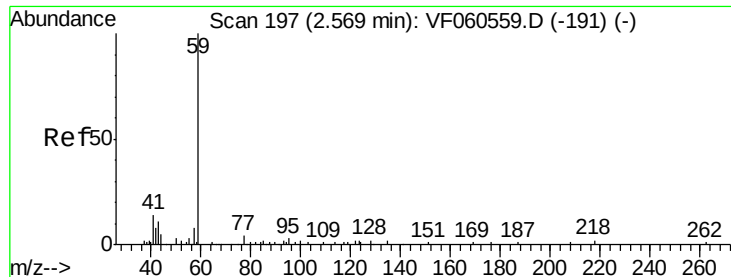
Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	142	Resp:	70663
Ion Ratio	Lower	Upper	
142	100		
127	71.1	47.8	71.6
141	15.7	12.7	19.1





#11

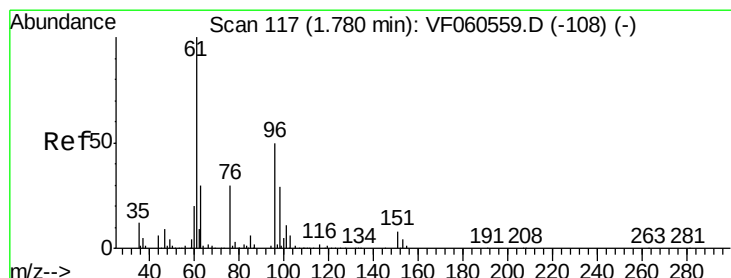
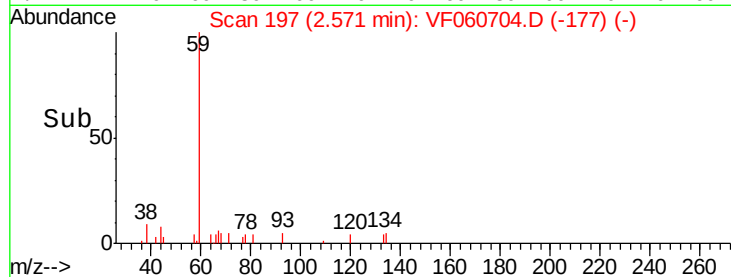
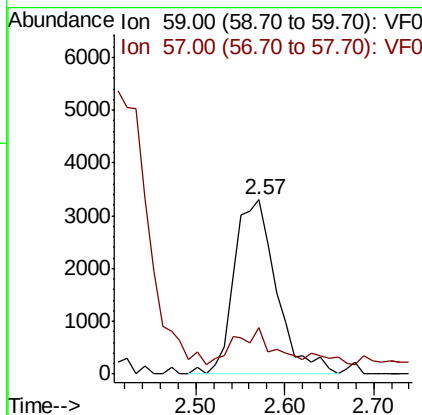
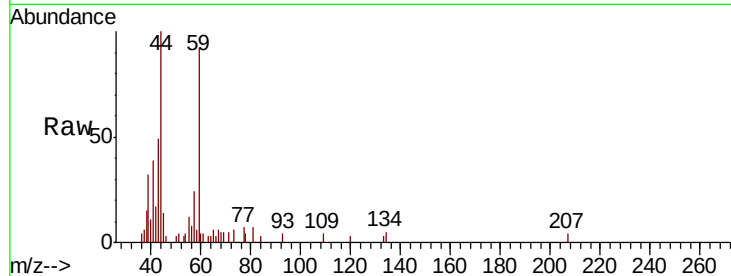
Tert butyl alcohol
Concen: 107.660 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.00 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

Tot Ion	Ion	Ratio	Lower	Upper
59	59	100		
57	57	26.4	19.0	28.4

Manual Integrations
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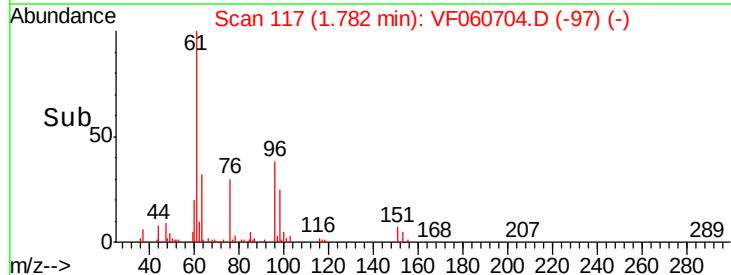
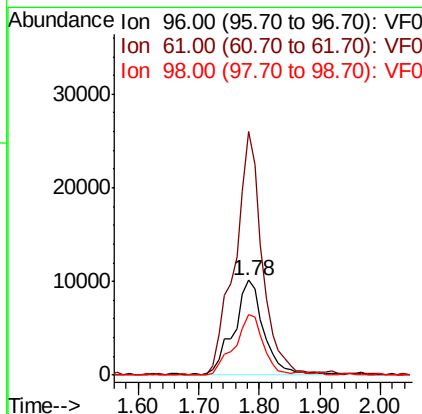
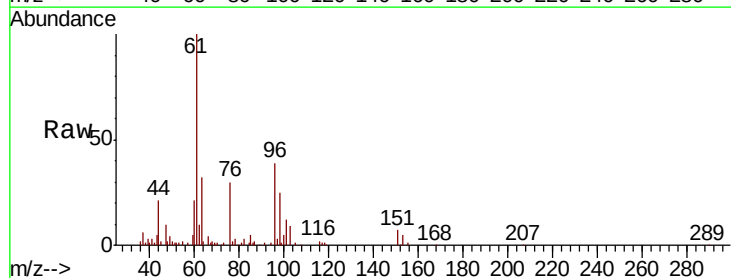
MMDadoda
11/13/2018 2:11:11 PM

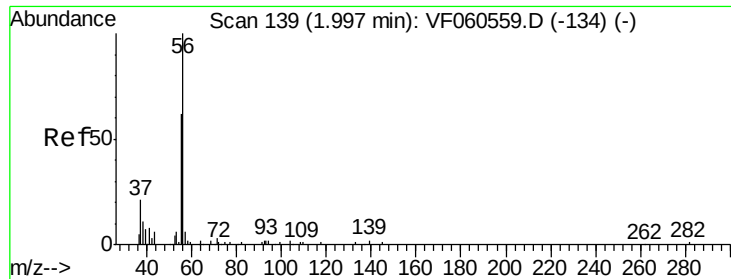


#12

1,1-Dichloroethene
Concen: 26.325 ug/l
RT: 1.78 min Scan# 117
Delta R.T. 0.00 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ion	Ratio	Lower	Upper
96	96	100		
61	61	256.3	158.1	237.1#
98	98	65.6	47.0	70.6





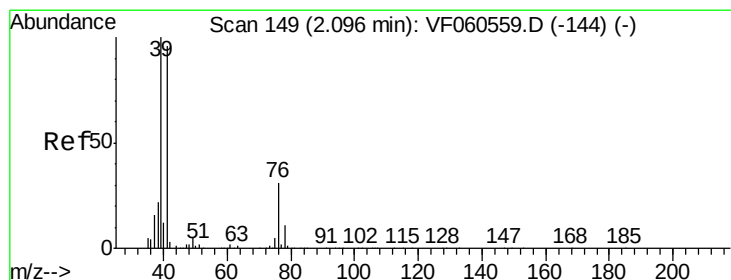
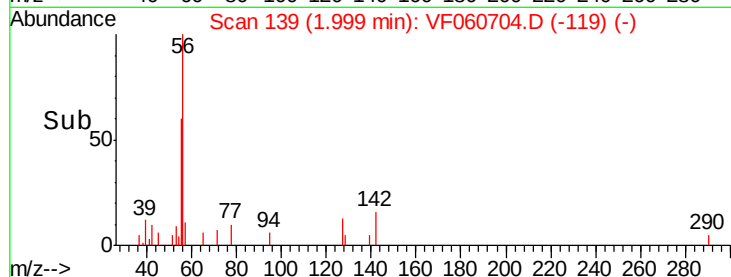
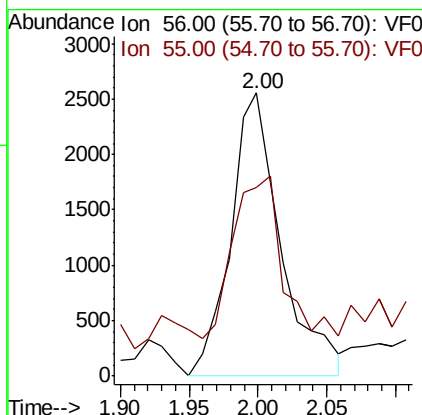
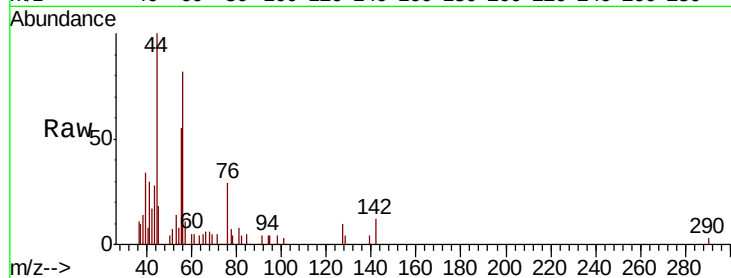
#13
Acrolein
Concen: 83.794 ug/l
RT: 2.00 min Scan# 139
Delta R.T. 0.00 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
55	66.7	61.8	92.6

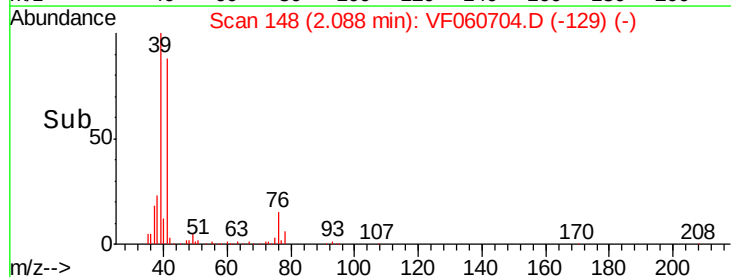
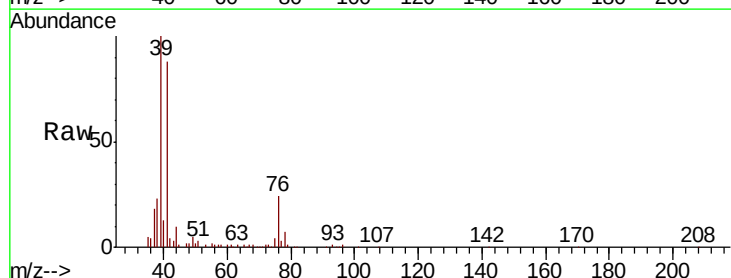
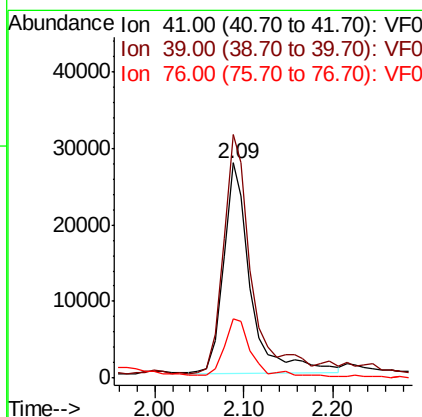
Manual Integrations
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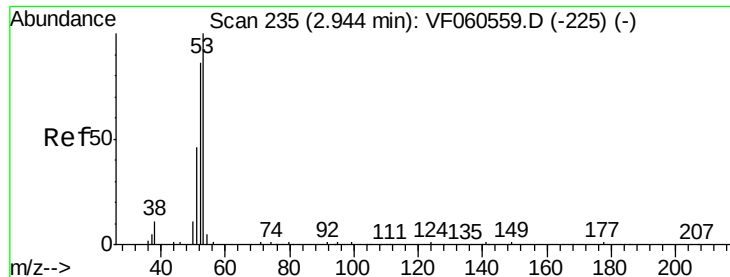
MMDadoda
11/13/2018 2:11:11 PM



#14
Allyl chloride
Concen: 26.926 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Lower	Upper
41	100		
39	113.2	82.6	124.0
76	27.3	26.7	40.1





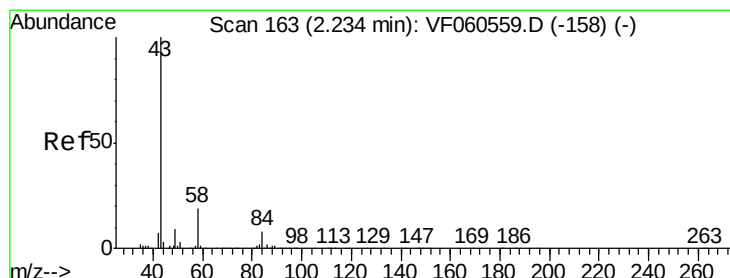
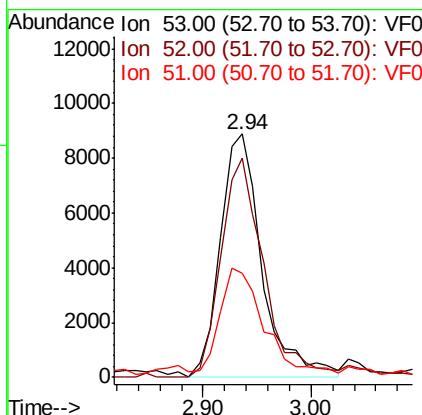
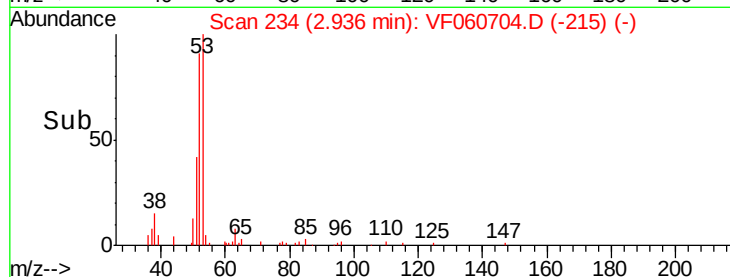
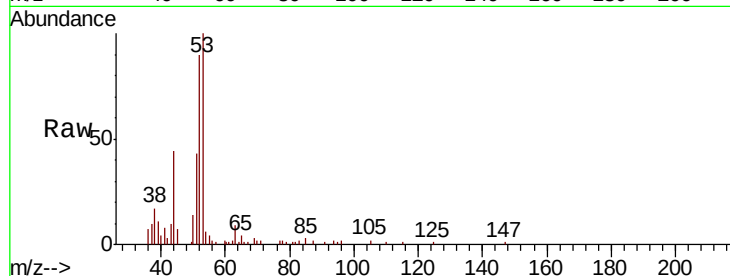
#15
 Acrylonitrile
 Concen: 106.932 ug/l
 RT: 2.94 min Scan# 234
 Delta R.T. -0.01 min
 Lab File: VF060704.D
 Acq: 12 Nov 2018 00:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1112SBS01

Tot Ion:	53	Resp:	23763
Ion	Ratio	Lower	Upper
53	100		
52	90.2	68.5	102.7
51	42.7	38.2	57.2

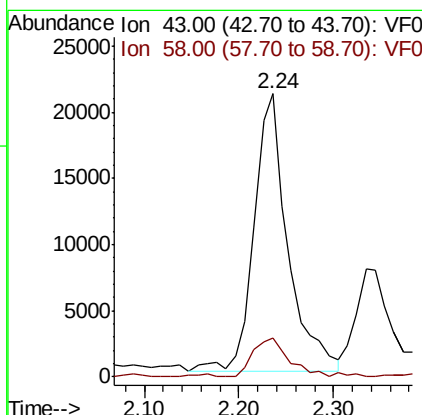
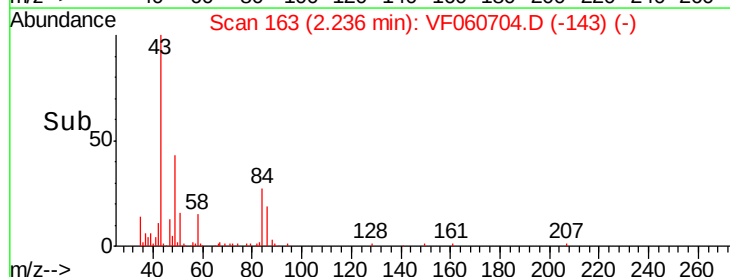
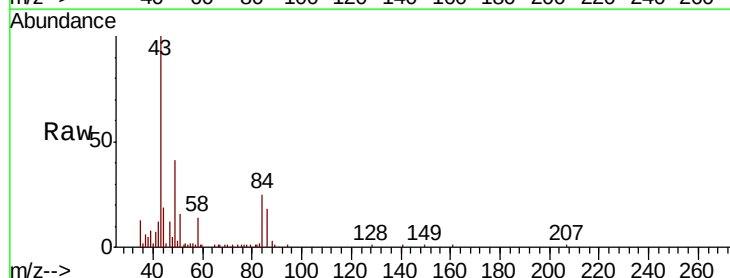
Manual Integrations
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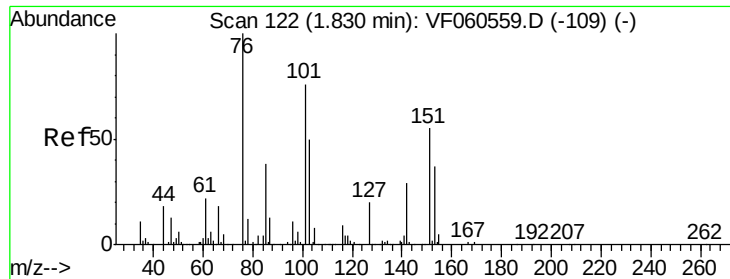
MMDadoda
 11/13/2018 2:11:11 PM



#16
 Acetone
 Concen: 118.419 ug/l
 RT: 2.24 min Scan# 163
 Delta R.T. 0.00 min
 Lab File: VF060704.D
 Acq: 12 Nov 2018 00:48

Tgt Ion:	43	Resp:	52031
Ion	Ratio	Lower	Upper
43	100		
58	14.0	14.6	22.0#





#17

Carbon Disulfide

Concen: 24.471 ug/l m

RT: 1.83 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBSD01

Tot Ion: 76 Resp: 92415

Ion Ratio Lower Upper

76 100

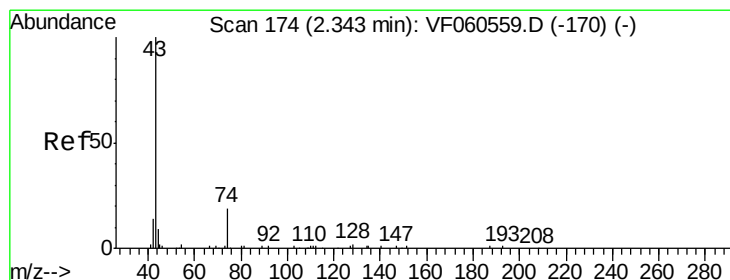
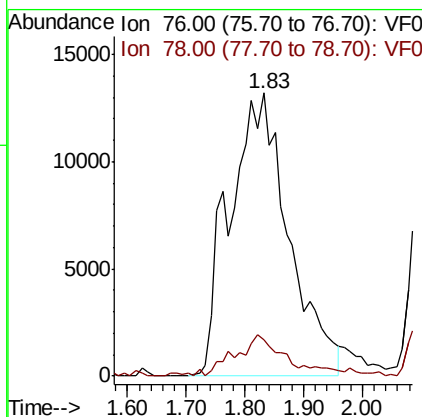
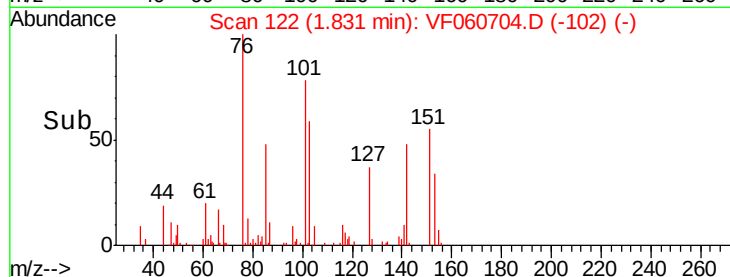
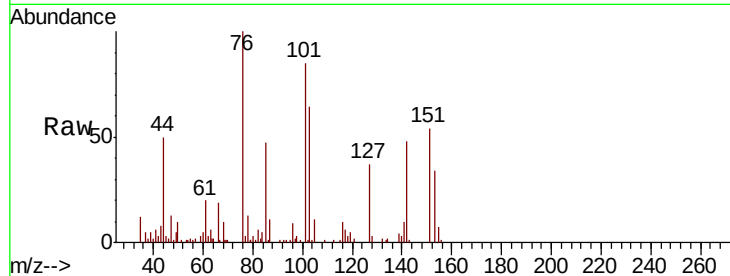
78 12.7 9.9 14.9

Manual Integrations

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11/13/2018 2:11:11 PM



#18

Methyl Acetate

Concen: 25.541 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060704.D

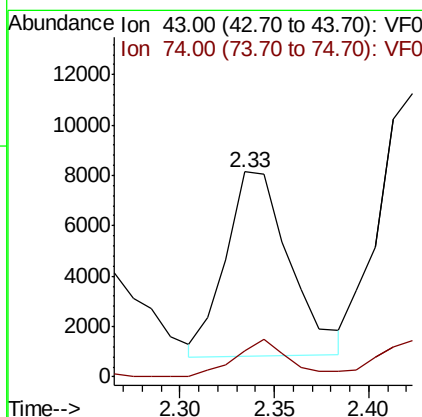
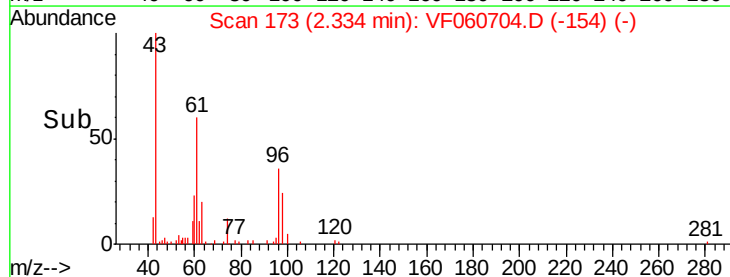
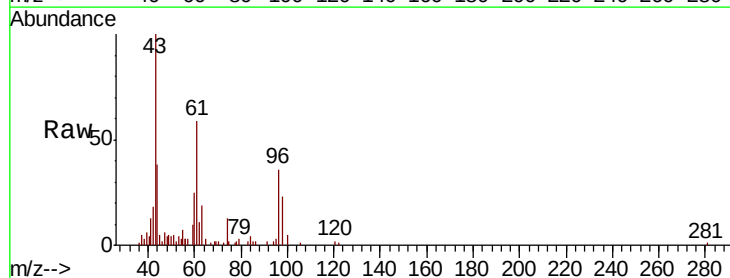
Acq: 12 Nov 2018 00:48

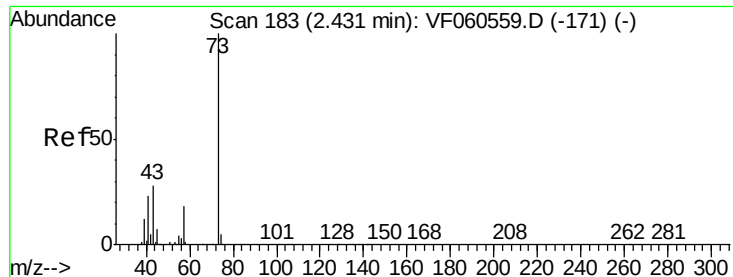
Tgt Ion: 43 Resp: 17270

Ion Ratio Lower Upper

43 100

74 12.6 12.1 18.1





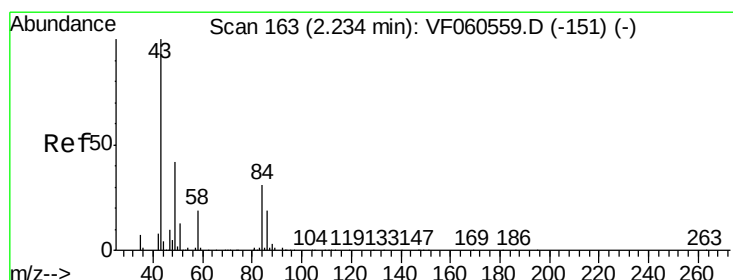
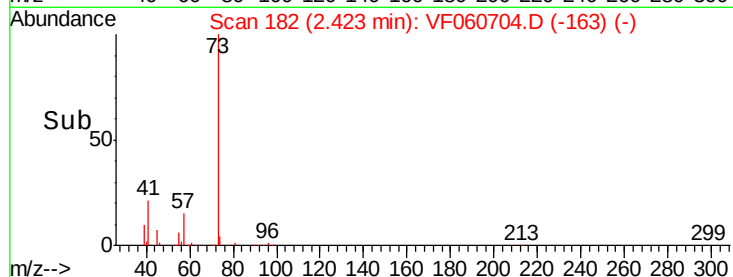
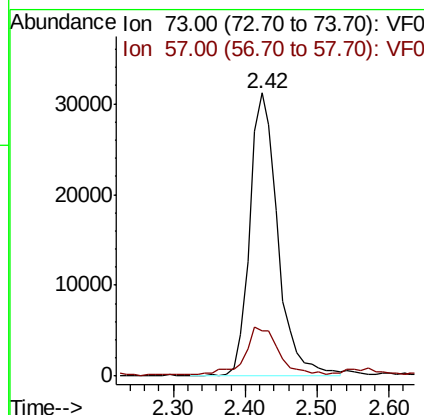
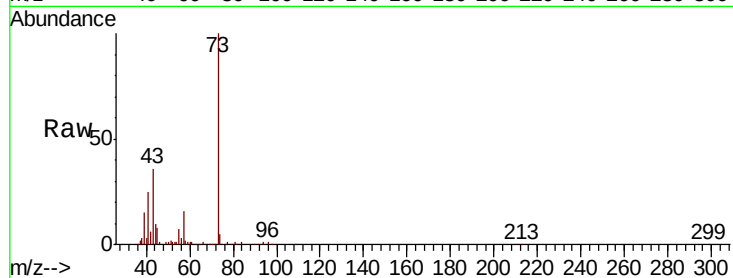
#19
Methyl tert-butyl Ether
Concen: 27.175 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	16.2	15.4	23.0

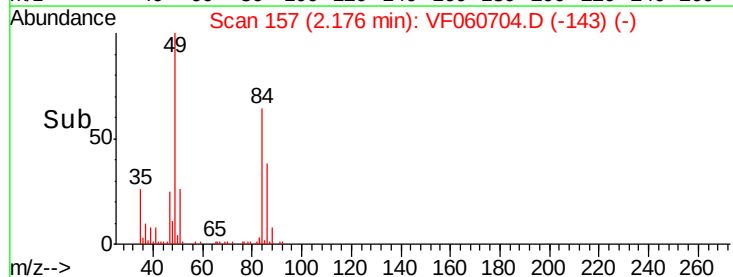
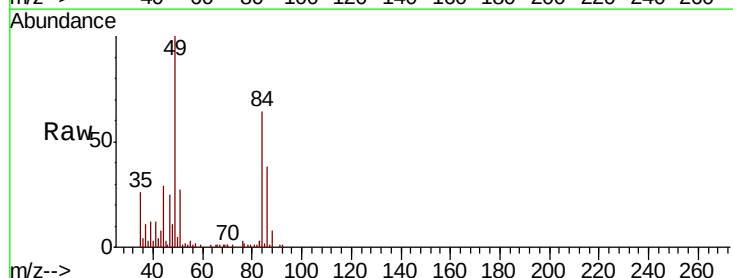
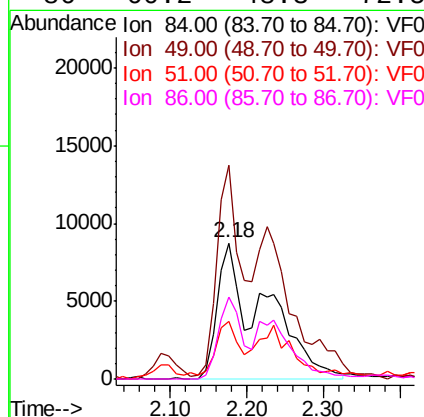
Manual Integrations
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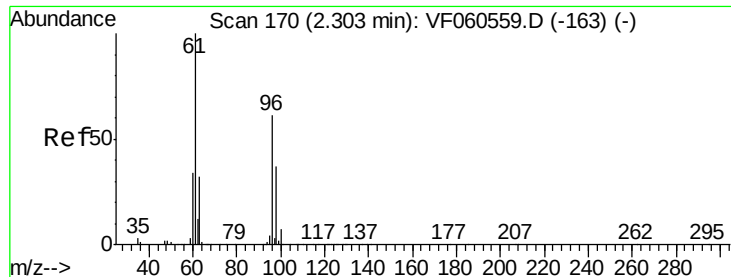
MMDadoda
11/13/2018 2:11:11 PM



#20
Methylene Chloride
Concen: 26.006 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. -0.06 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Lower	Upper
84	100		
49	156.8	109.9	164.9
51	42.7	35.8	53.8
86	60.2	48.3	72.5





#21

trans-1,2-Dichloroethene

Concen: 25.223 ug/l

RT: 2.30 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

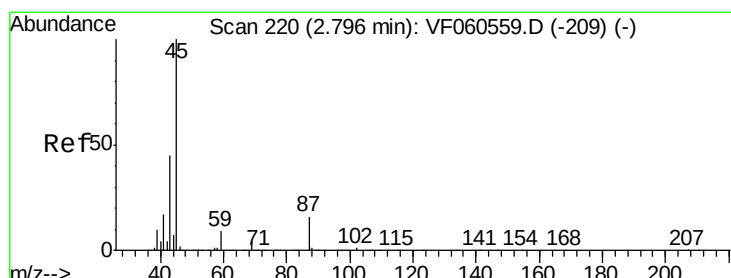
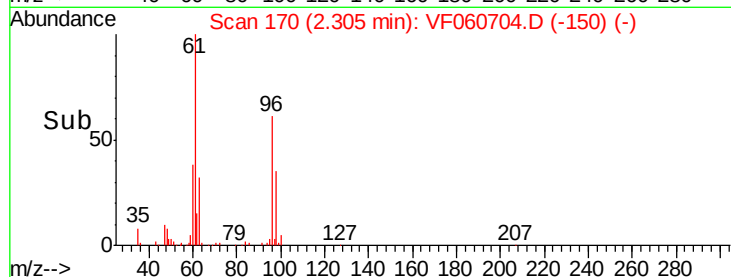
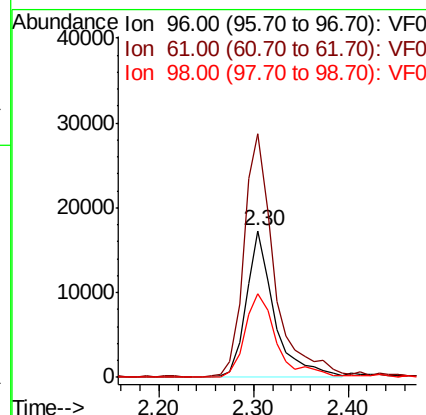
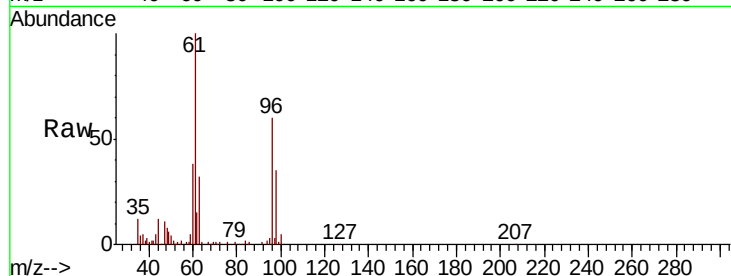
ClientSampleId :

VF1112SBSD01

Tot Ion:	96	Resp:	35477
Ion	Ratio	Lower	Upper
96	100		
61	166.0	131.3	196.9
98	57.4	48.6	73.0

Manual Integrations
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MMDadoda
11/13/2018 2:11:11 PM



#22

Diisopropyl ether

Concen: 24.665 ug/l

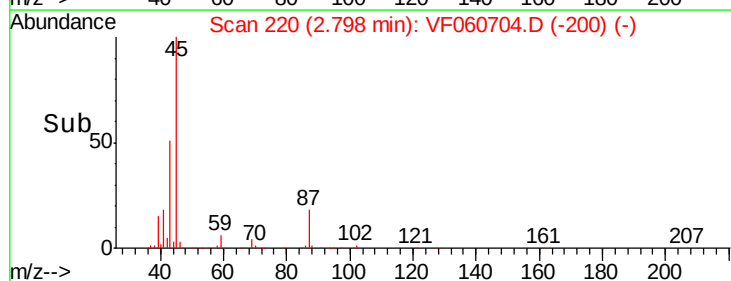
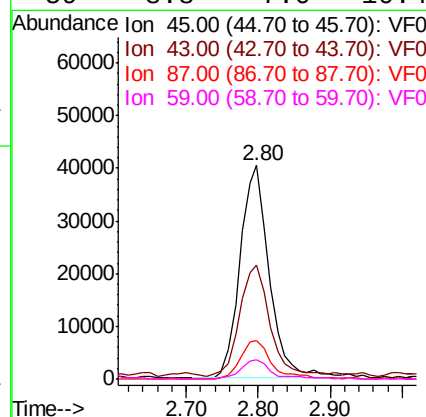
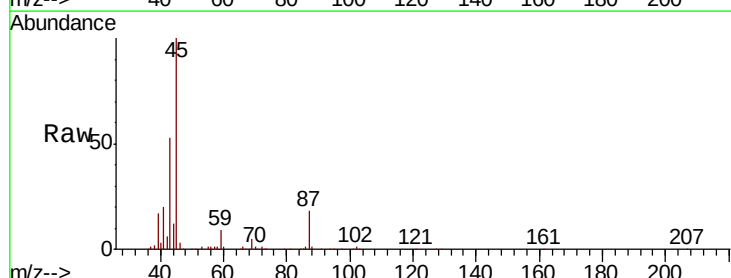
RT: 2.80 min Scan# 220

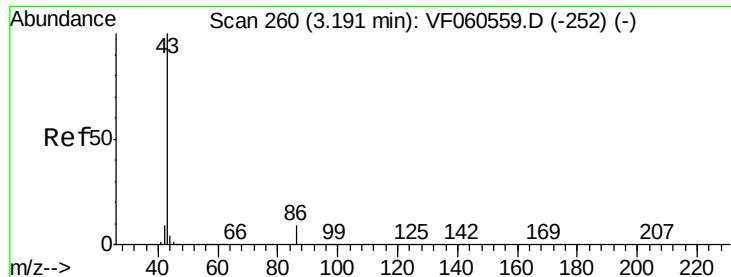
Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	45	Resp:	114401
Ion	Ratio	Lower	Upper
45	100		
43	53.1	38.1	57.1
87	18.1	12.7	19.1
59	8.8	7.0	10.4





#23

Vinyl Acetate

Concen: 100.467 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBSD01

Tot Ion: 43 Resp: 279976

Ion Ratio Lower Upper

43 100

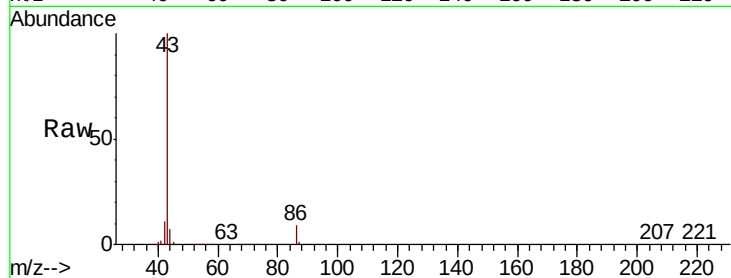
86 8.9 7.1 10.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.18

120000

100000

80000

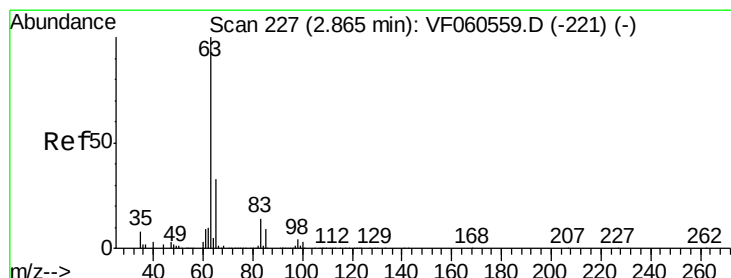
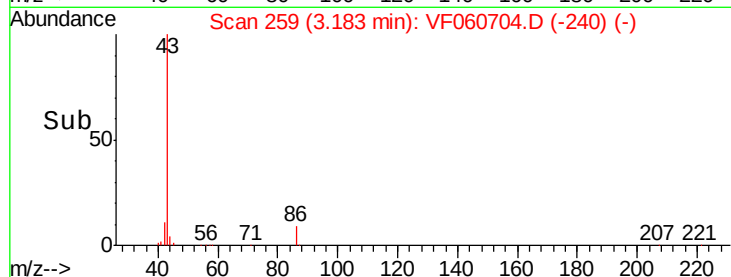
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 28.757 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

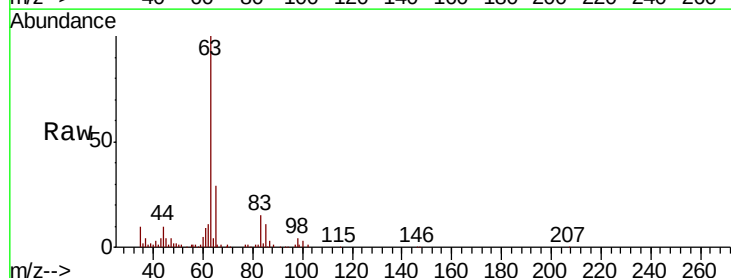
Tgt Ion: 63 Resp: 77193

Ion Ratio Lower Upper

63 100

98 4.5 2.2 6.6

100 3.0 1.4 4.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.87

40000

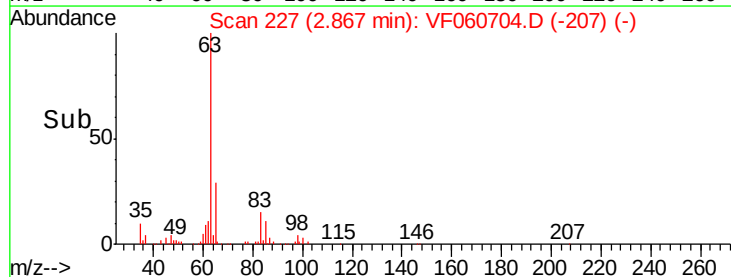
30000

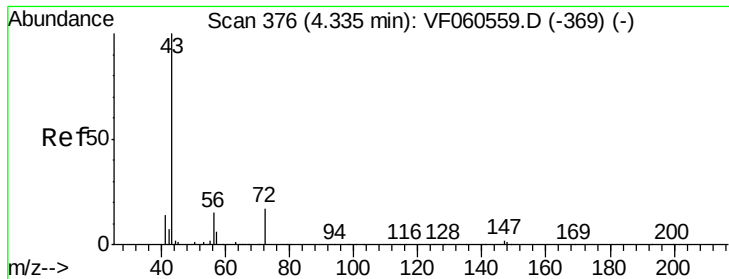
20000

10000

0

Time-->





#25

2-Butanone

Concen: 81.069 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 43 Resp: 84898

Ion Ratio Lower Upper

43 100

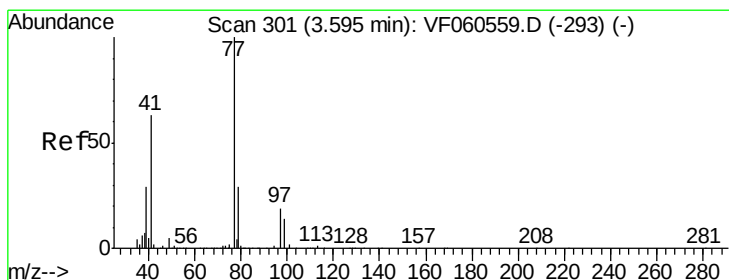
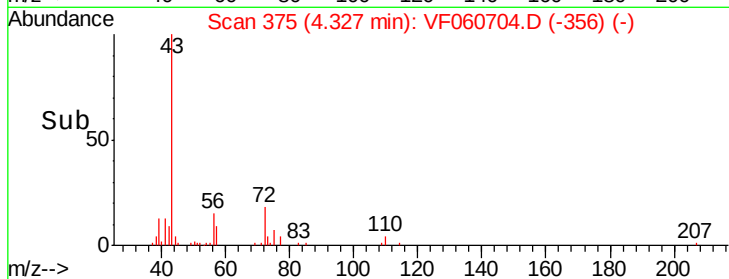
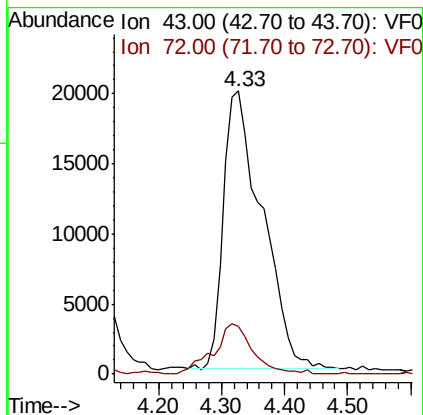
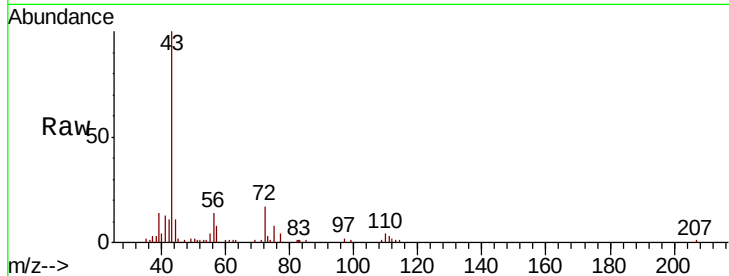
72 16.9 16.2 24.2

Manual Integrations

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MMDadoda

11/13/2018 2:11:11 PM



#26

2,2-Dichloropropane

Concen: 27.888 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.01 min

Lab File: VF060704.D

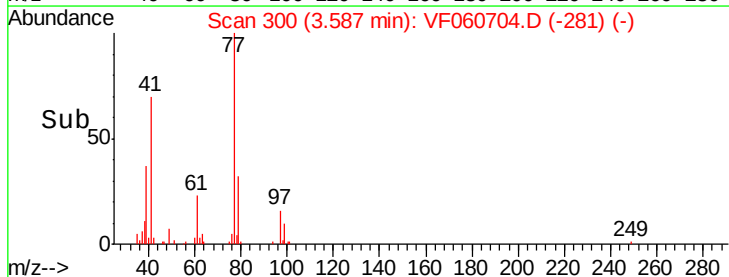
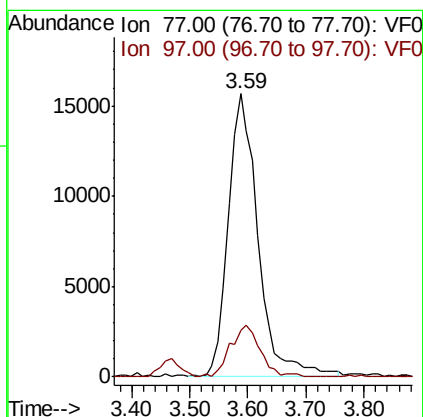
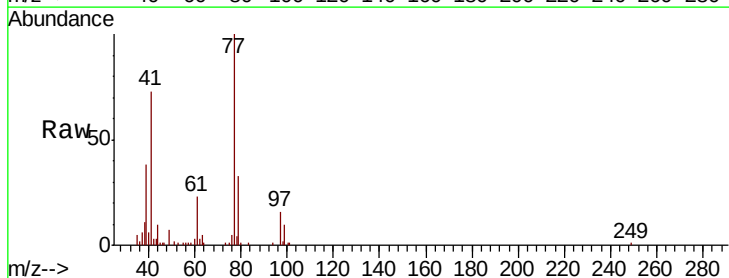
Acq: 12 Nov 2018 00:48

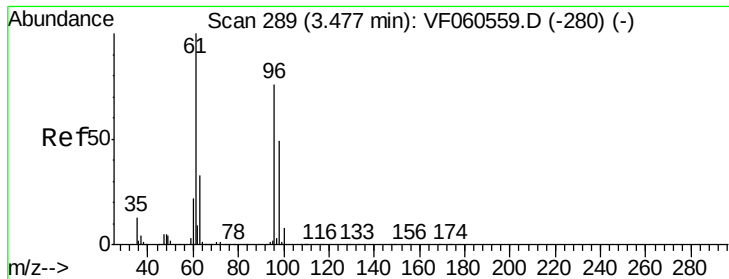
Tgt Ion: 77 Resp: 56013

Ion Ratio Lower Upper

77 100

97 16.3 9.8 29.3





#27

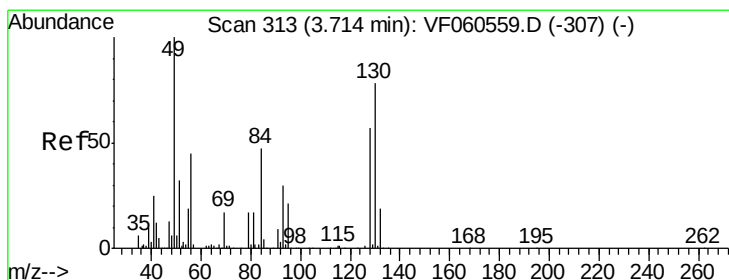
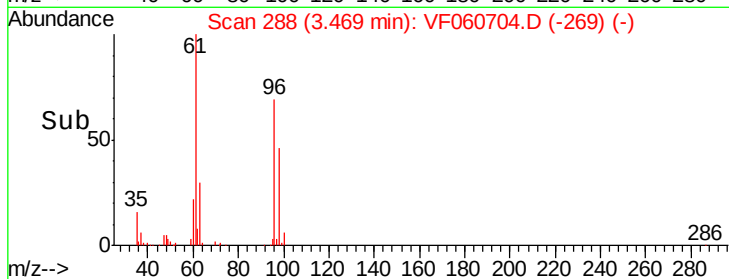
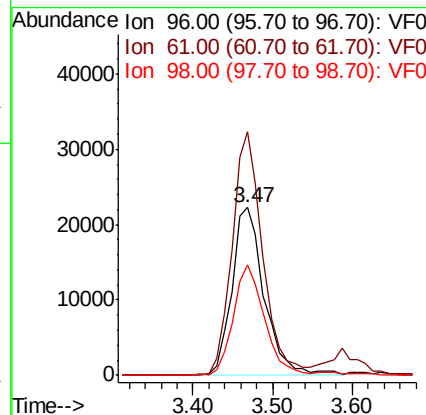
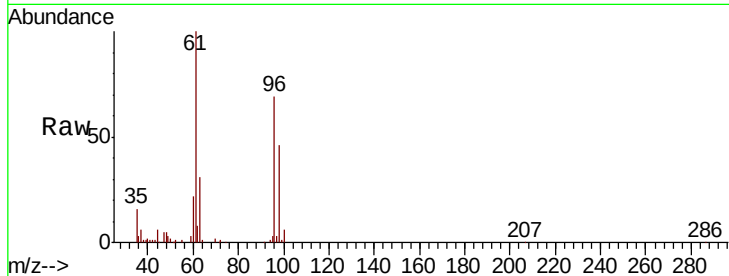
cis-1,2-Dichloroethene
Concen: 23.633 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.9	0.0	263.0
98	66.0	0.0	130.6

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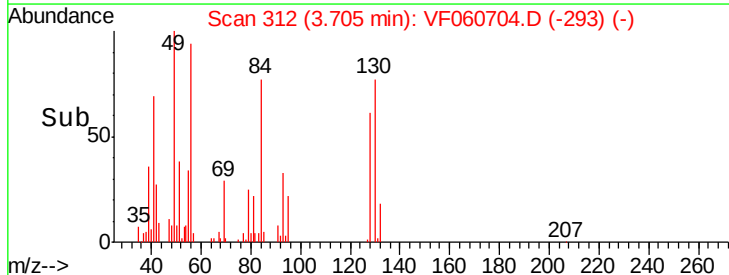
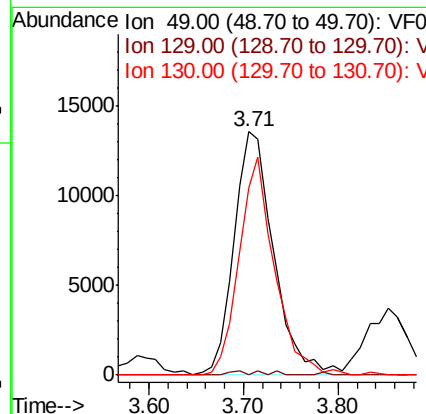
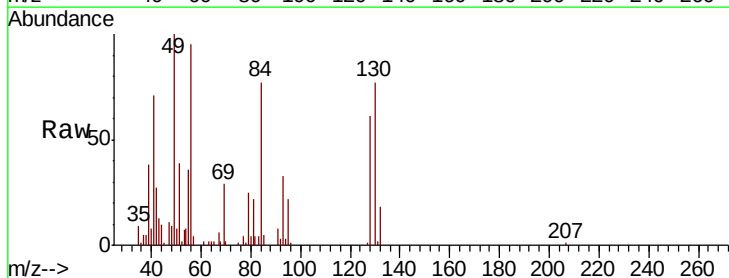
MMDadoda
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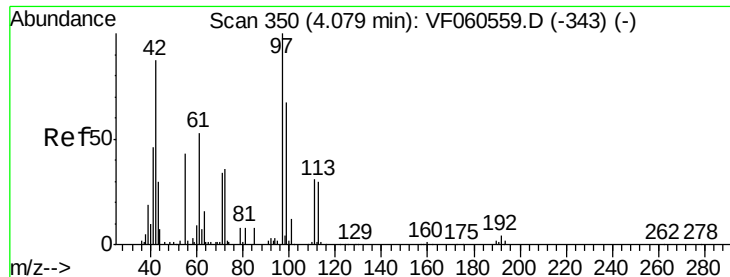


#28

Bromochloromethane
Concen: 23.434 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	76.9	61.8	92.8





#29

Tetrahydrofuran

Concen: 107.896 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

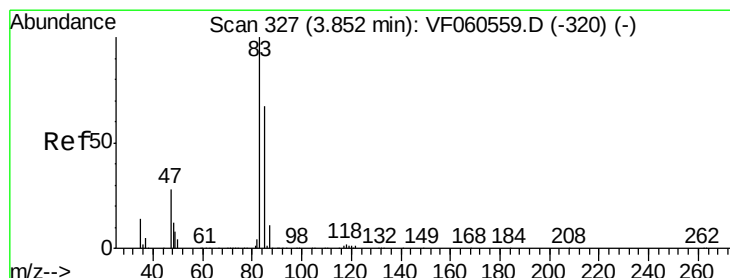
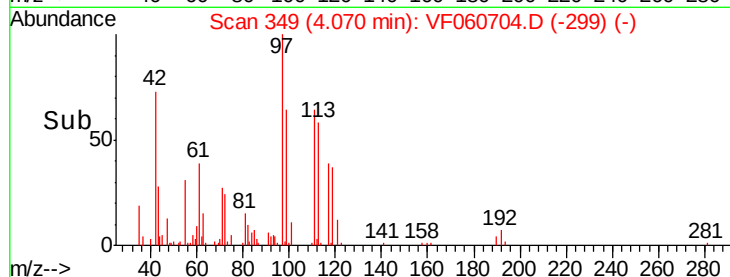
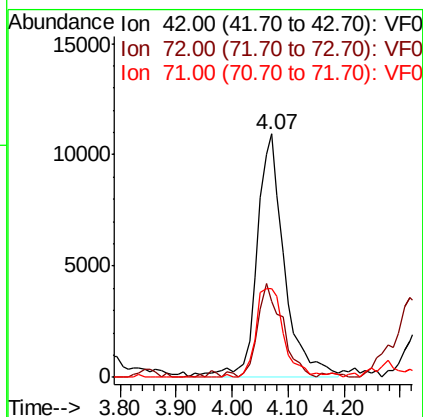
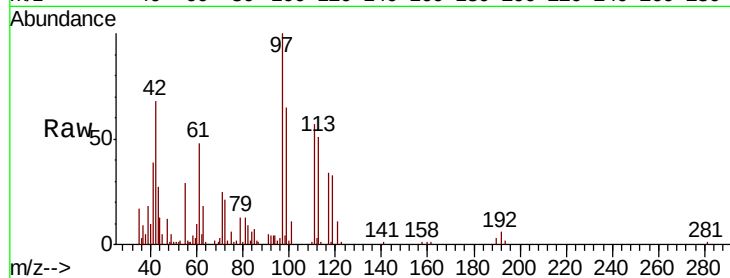
ClientSampleId :

VF1112SBS01

Tot Ion:	42	Resp:	37121
Ion	Ratio	Lower	Upper
42	100		
72	34.7	31.4	47.0
71	37.7	31.8	47.6

Manual Integrations
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#30

Chloroform

Concen: 26.583 ug/l

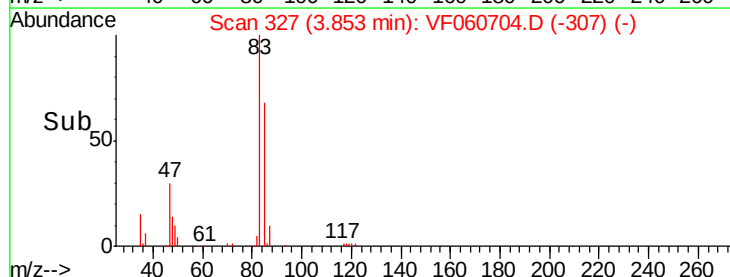
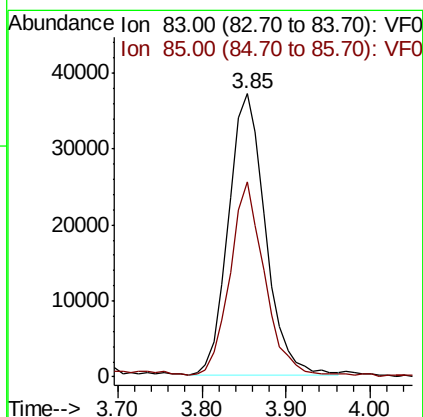
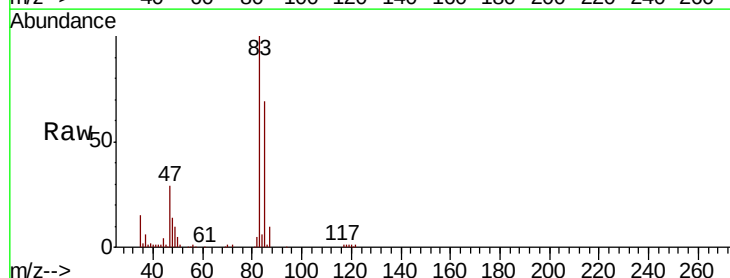
RT: 3.85 min Scan# 327

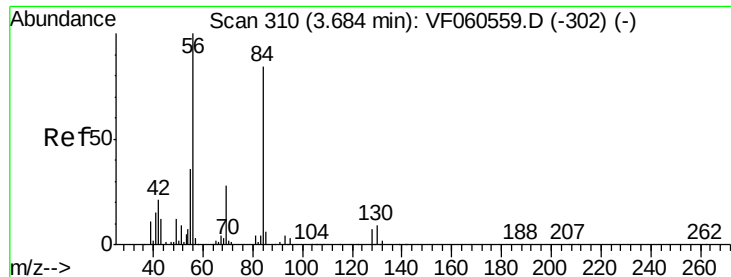
Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	83	Resp:	112892
Ion	Ratio	Lower	Upper
83	100		
85	68.7	53.7	80.5





#31

Cyclohexane

Concen: 22.787 ug/l

RT: 3.69 min Scan# 310

Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

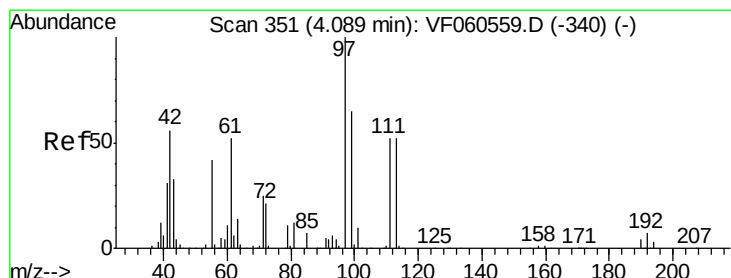
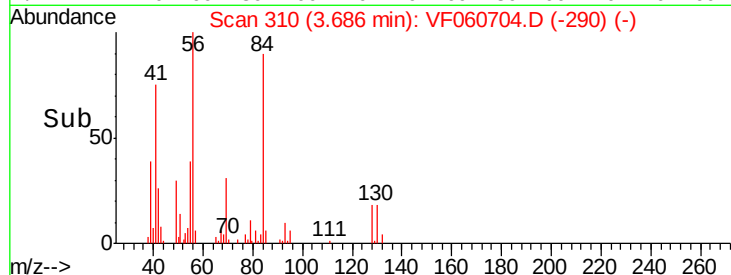
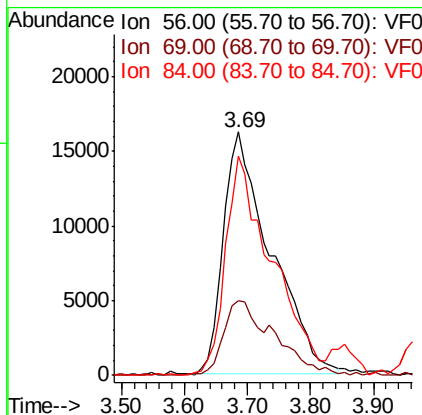
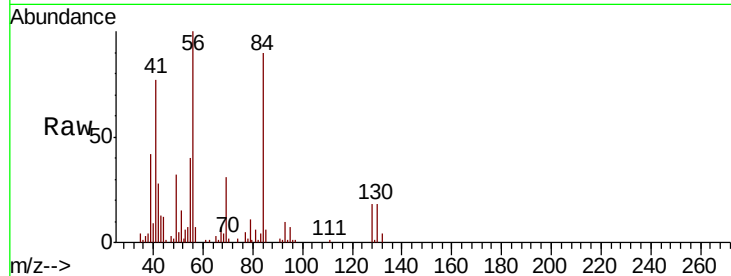
ClientSampleId :

VF1112SBSD01

Tot Ion:	56	Resp:	84408
Ion	Ratio	Lower	Upper
56	100		
69	30.9	23.0	34.4
84	90.3	67.1	100.7

Manual Integrations
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11/13/2018 2:11:11 PM



#32

1,1,1-Trichloroethane

Concen: 31.129 ug/l

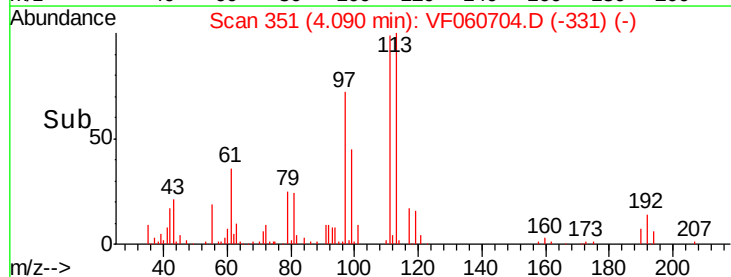
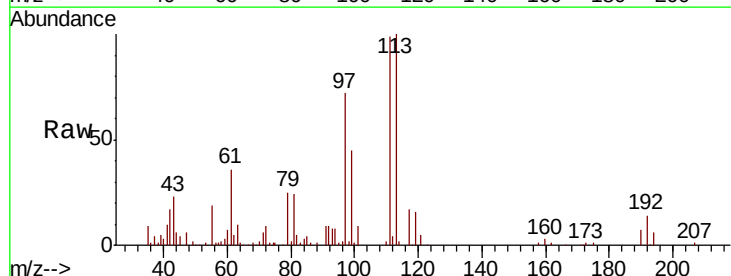
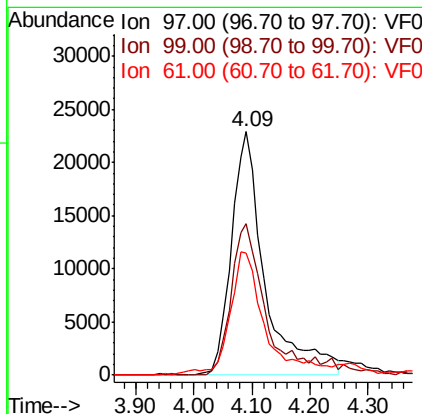
RT: 4.09 min Scan# 351

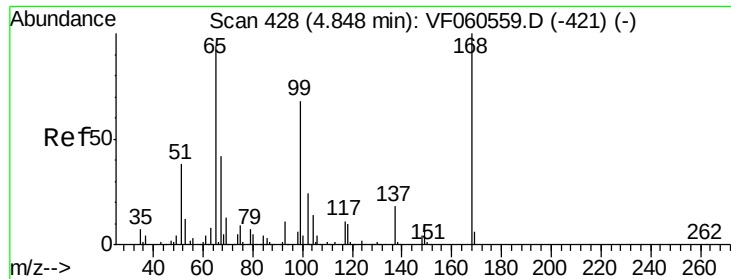
Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	97	Resp:	92332
Ion	Ratio	Lower	Upper
97	100		
99	62.4	52.4	78.6
61	50.1	41.5	62.3





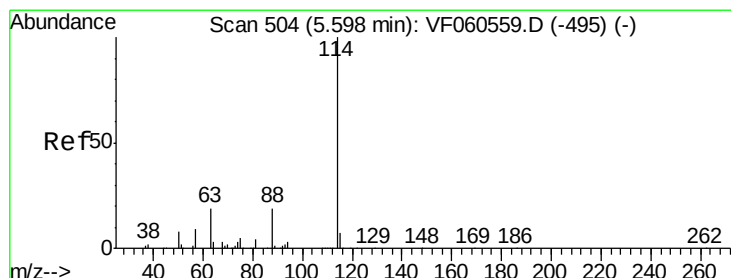
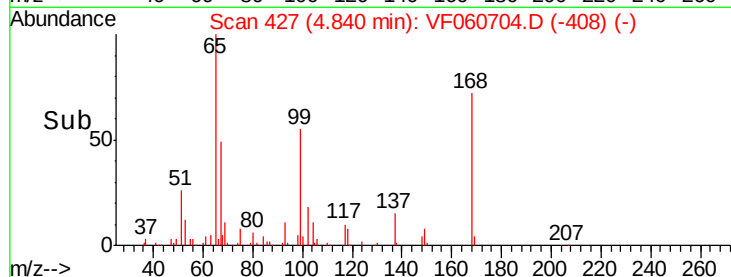
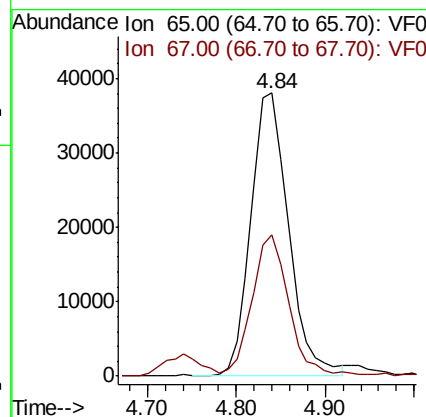
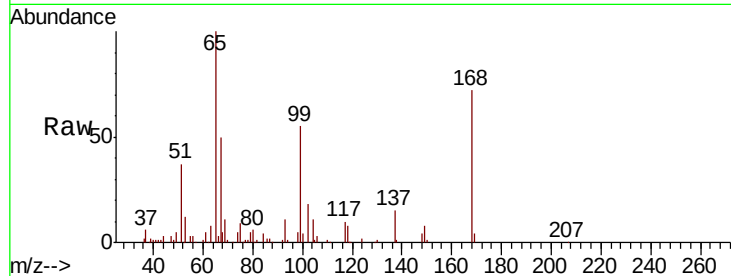
#33
 1,2-Dichloroethane-d4
 Concen: 60.079 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.01 min
 Lab File: VF060704.D
 Acq: 12 Nov 2018 00:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1112SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	112025		
67	49.8	0.0	101.8	

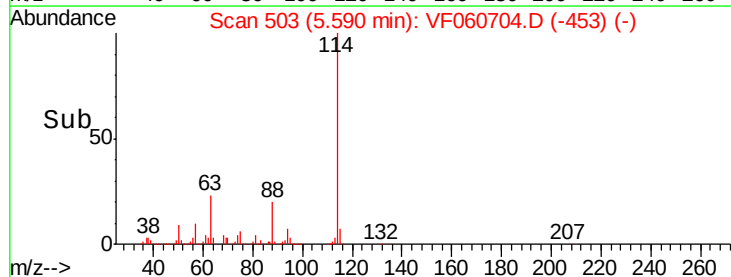
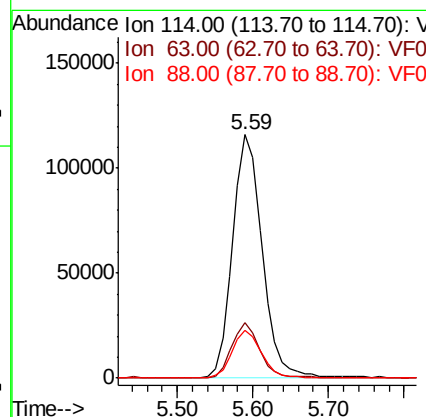
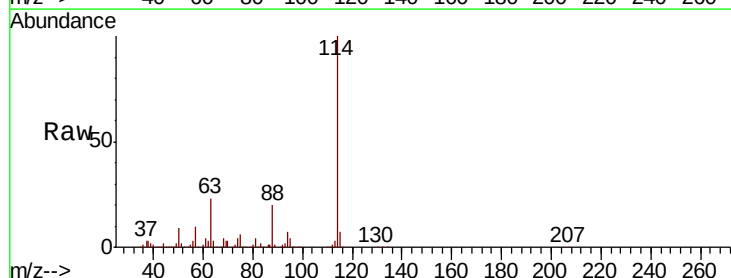
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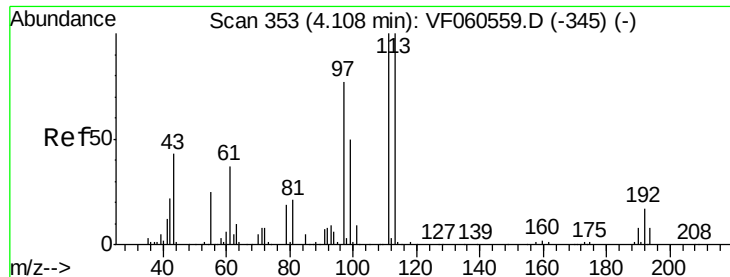
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.01 min
 Lab File: VF060704.D
 Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	314517		
63	22.7	0.0	39.0	
88	19.9	0.0	38.2	





#35

Dibromofluoromethane

Concen: 55.641 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

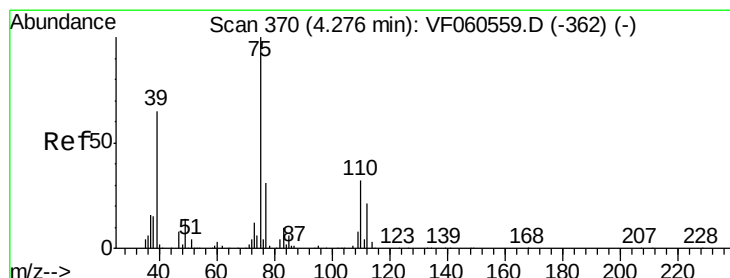
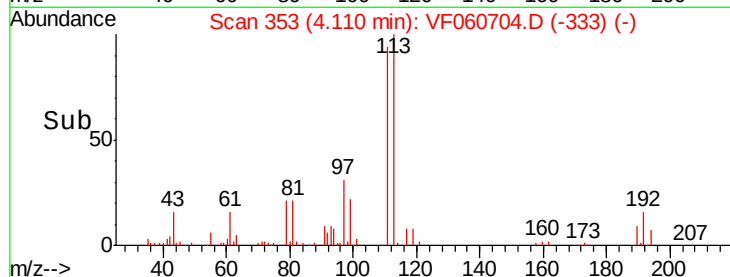
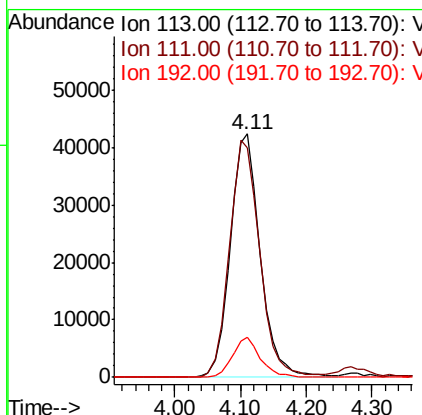
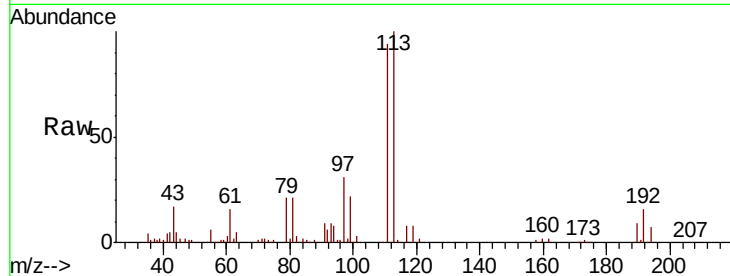
ClientSampleId :

VF1112SBSD01

Tot Ion:	113	Resp:	135204
Ion Ratio	Lower	Upper	
113	100		
111	94.3	79.9	119.9
192	16.3	13.3	19.9

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#36

1,1-Dichloropropene

Concen: 23.786 ug/l

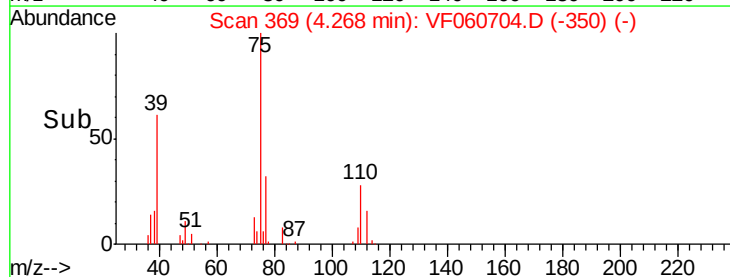
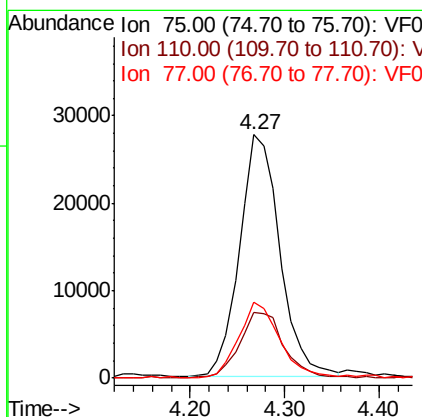
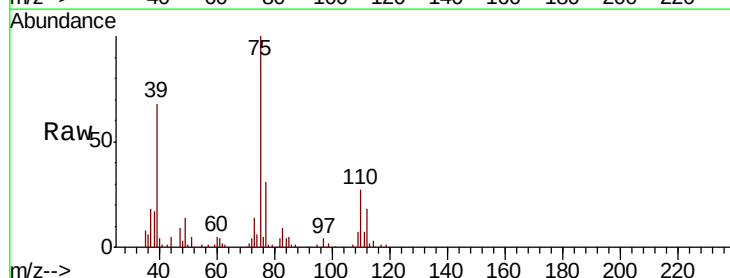
RT: 4.27 min Scan# 369

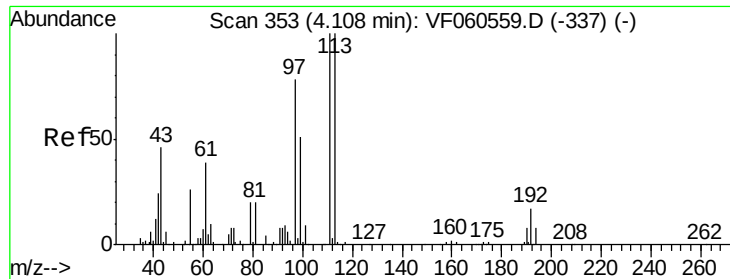
Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	75	Resp:	82373
Ion Ratio	Lower	Upper	
75	100		
110	26.7	16.2	48.6
77	31.3	25.0	37.6





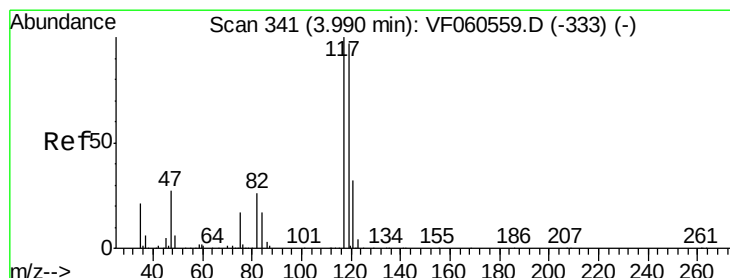
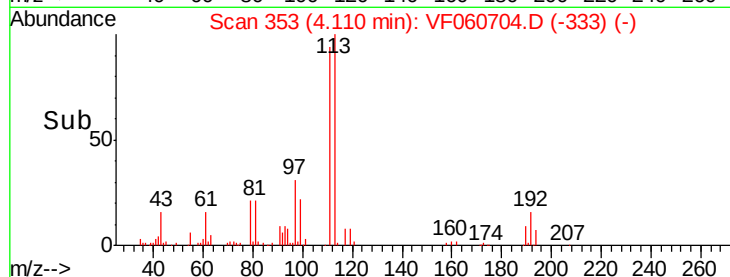
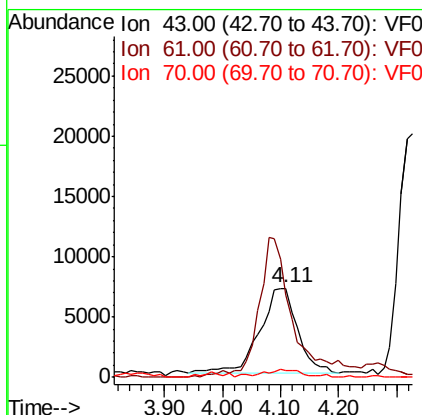
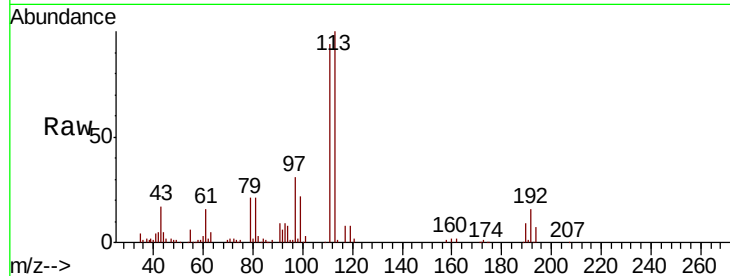
#37
Ethyl Acetate
Concen: 19.566 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	92.6	63.4	95.2
70	7.8	9.3	13.9#

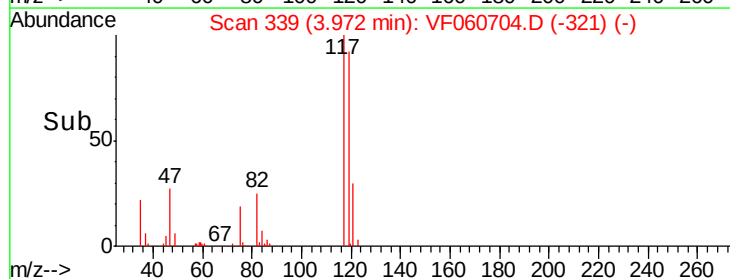
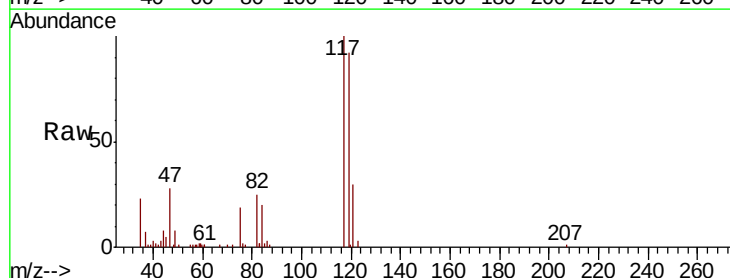
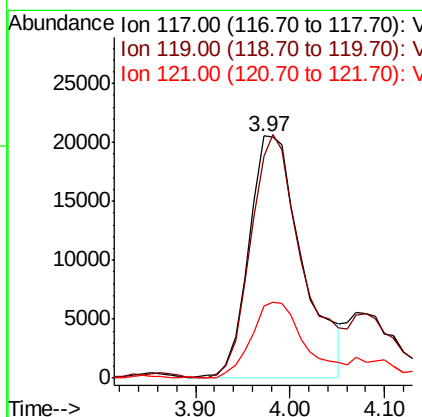
Manual Integrations
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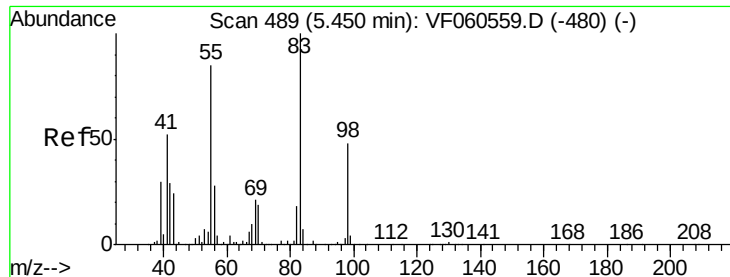
MMDadoda
11/13/2018 2:11:11 PM



#38
Carbon Tetrachloride
Concen: 27.116 ug/l
RT: 3.97 min Scan# 339
Delta R.T. -0.02 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.8	77.8	116.6
121	30.0	25.6	38.4





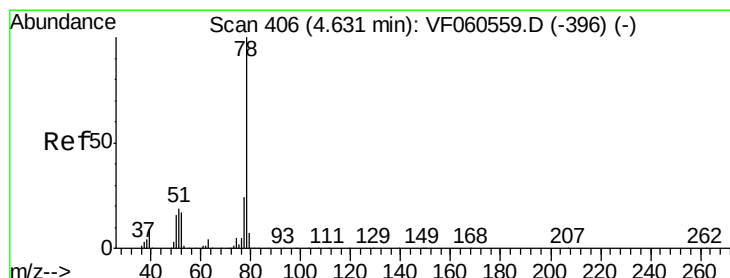
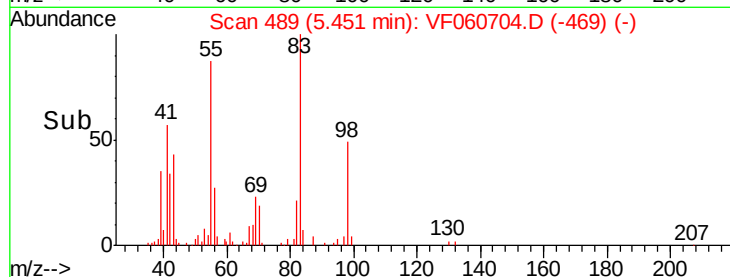
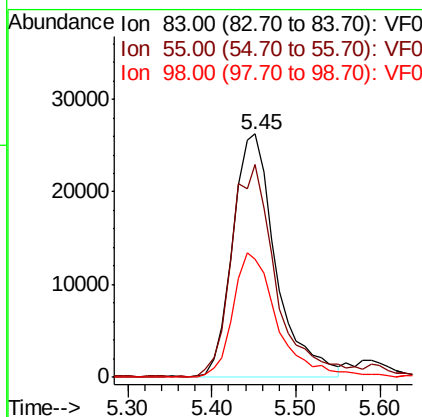
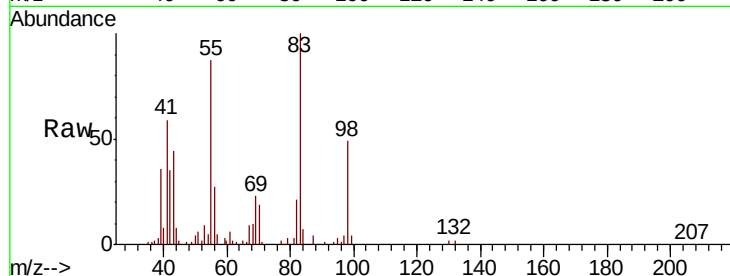
#39
Methylvlcyclohexane
Concen: 22.355 ug/l
RT: 5.45 min Scan# 489
Delta R.T. 0.00 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.3	69.1	103.7
98	48.6	38.6	57.8

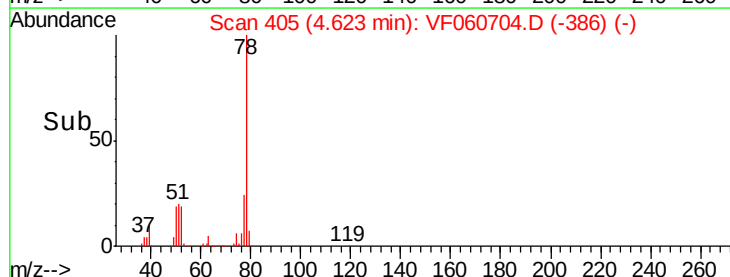
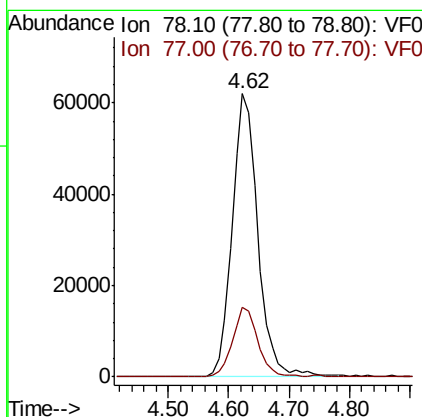
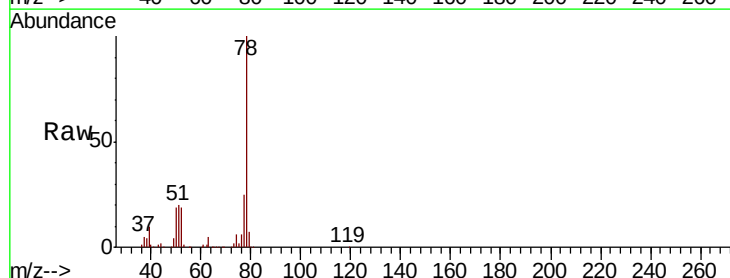
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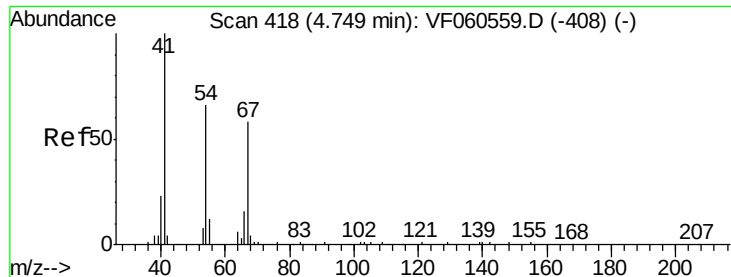
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#40
Benzene
Concen: 21.777 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.3	28.9





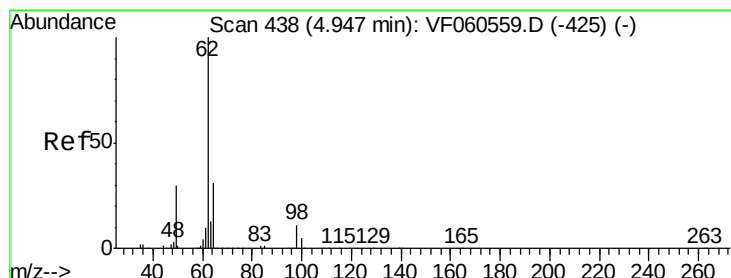
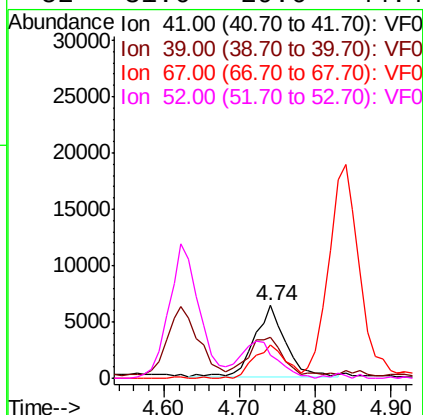
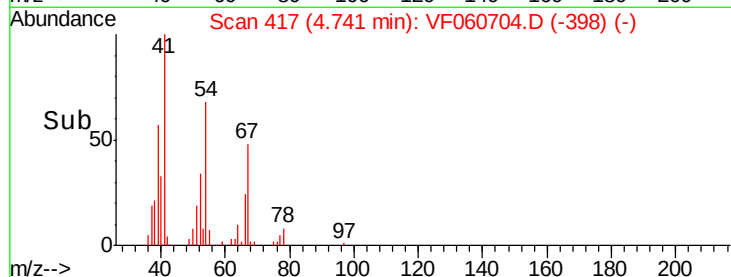
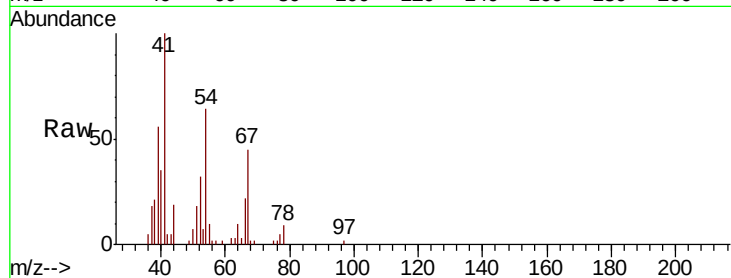
#41
Methacrylonitrile
Concen: 19.348 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		18215		
39	56.3	45.6	68.4		
67	45.1	45.3	67.9#		
52	31.6	29.6	44.4		

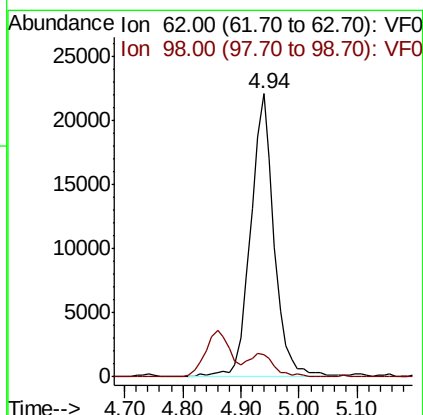
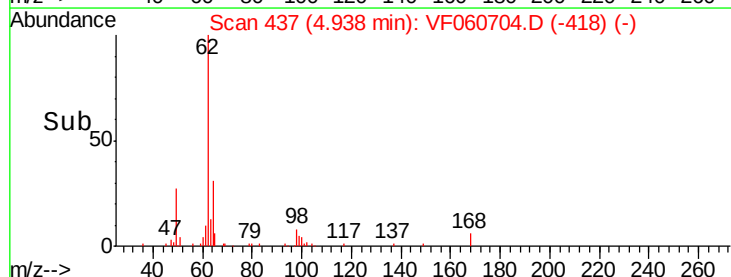
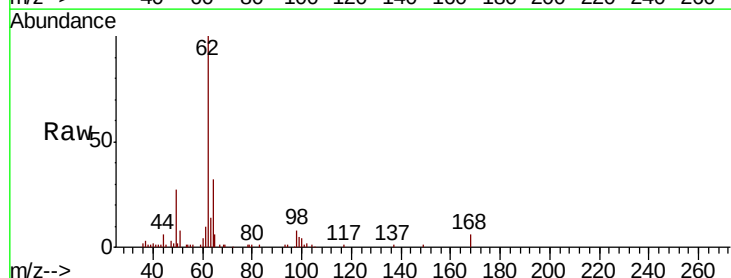
Manual Integrations
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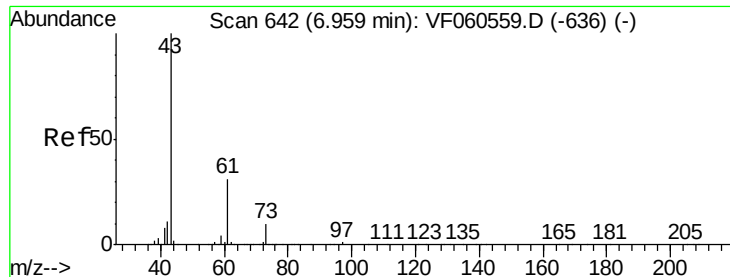
MMDadoda
11/13/2018 2:11:11 PM



#42
1,2-Dichloroethane
Concen: 25.966 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		62646		
98	7.9	0.0	22.4		





#43

Isopropyl Acetate

Concen: 17.433 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

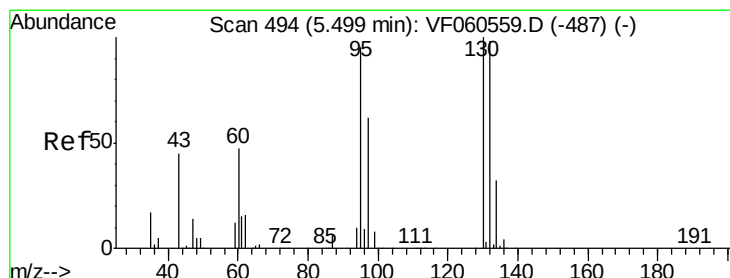
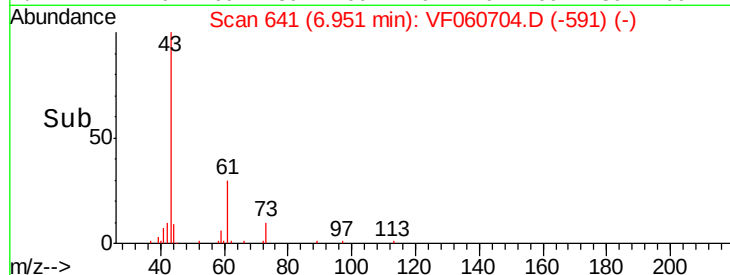
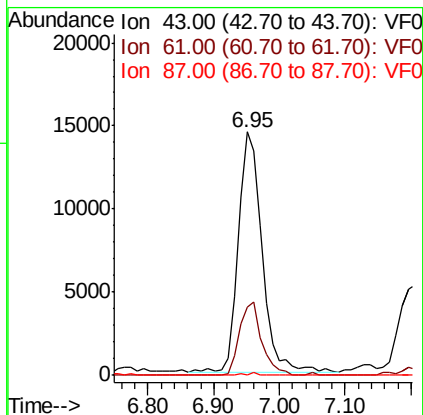
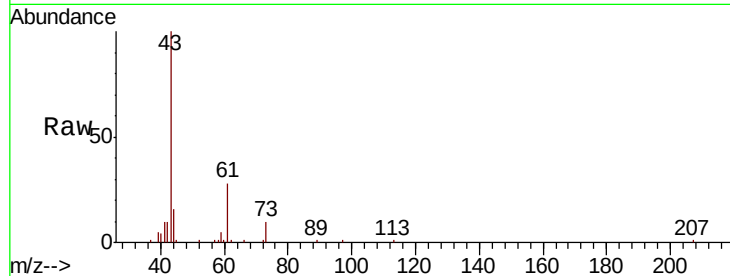
ClientSampleId :

VF1112SBSD01

Tot Ion:	43	Resp:	36657
Ion	Ratio	Lower	Upper
43	100		
61	27.8	24.2	36.2
87	0.0	0.2	0.4

Manual Integrations
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#44

Trichloroethene

Concen: 23.390 ug/l

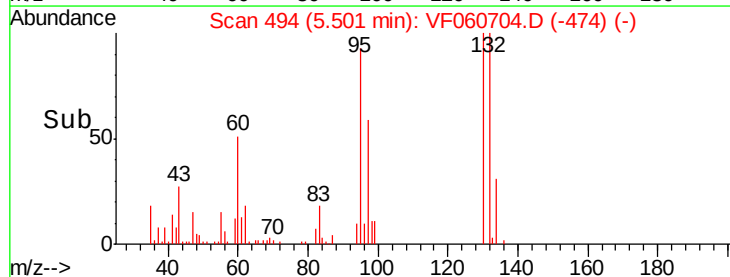
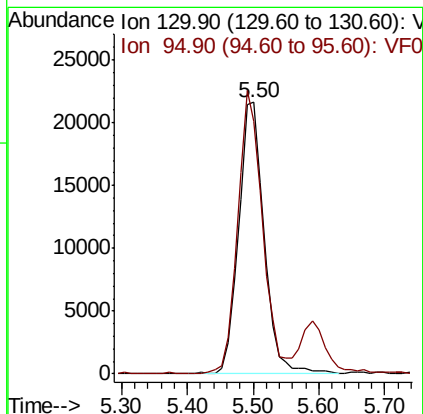
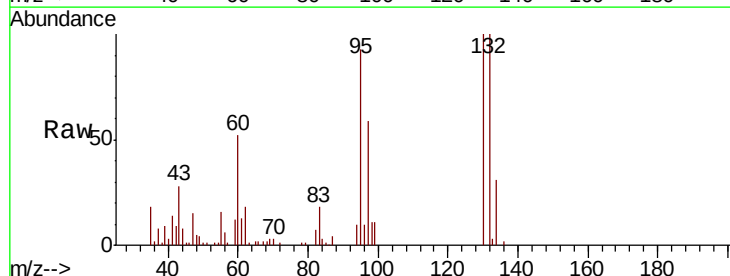
RT: 5.50 min Scan# 494

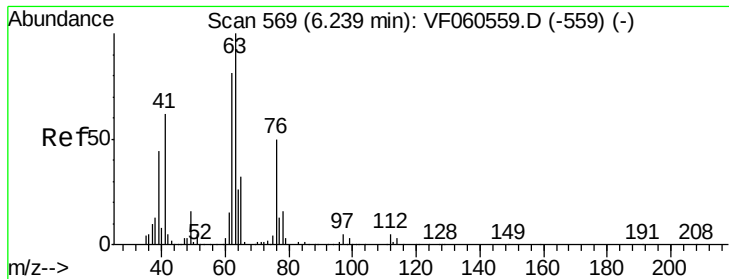
Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	130	Resp:	59090
Ion	Ratio	Lower	Upper
130	100		
95	93.0	0.0	191.0





#45

1,2-Dichloropropane

Concen: 22.491 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBSD01

Tot Ion: 63 Resp: 48353

Ion Ratio Lower Upper

63 100

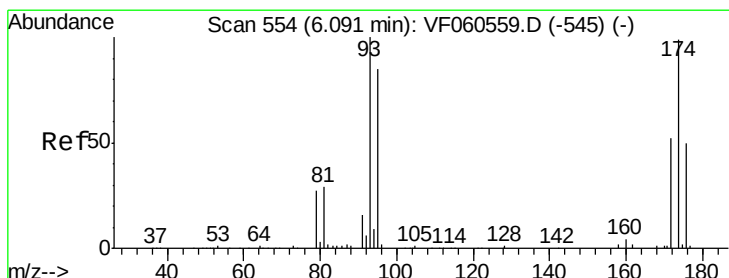
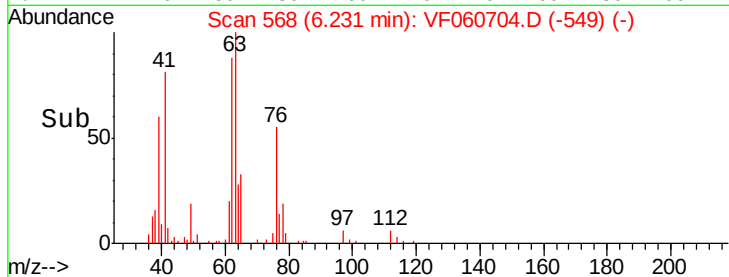
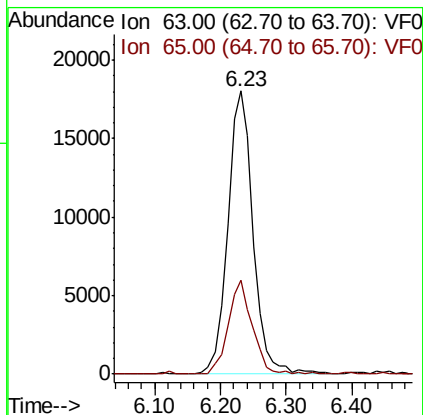
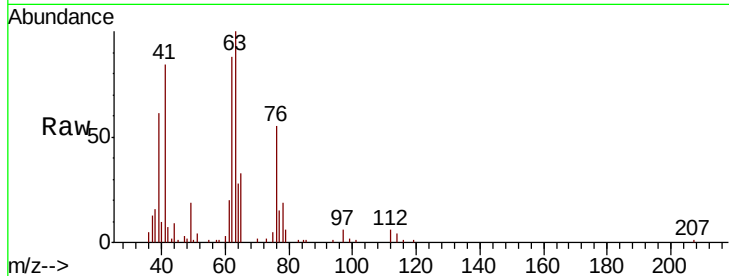
65 33.3 25.4 38.0

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#46

Dibromomethane

Concen: 24.503 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

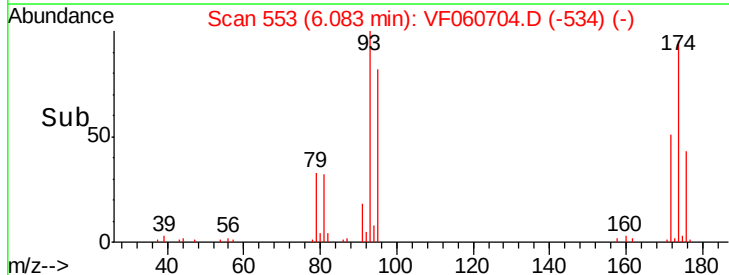
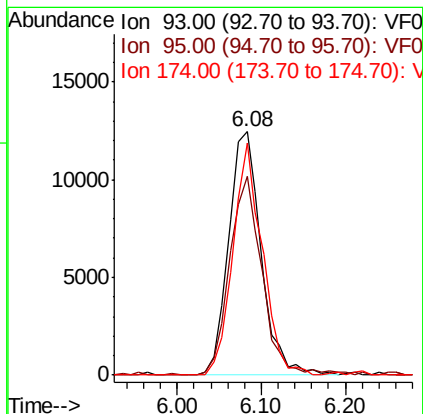
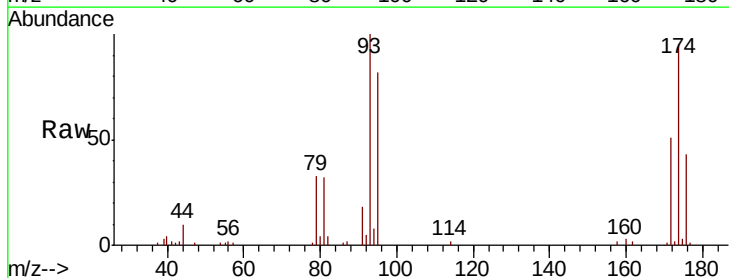
Tgt Ion: 93 Resp: 33420

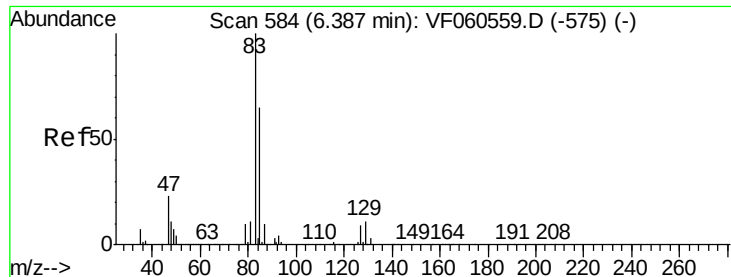
Ion Ratio Lower Upper

93 100

95 81.6 68.6 102.8

174 95.4 79.0 118.4





#47

Bromodichloromethane

Concen: 24.751 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

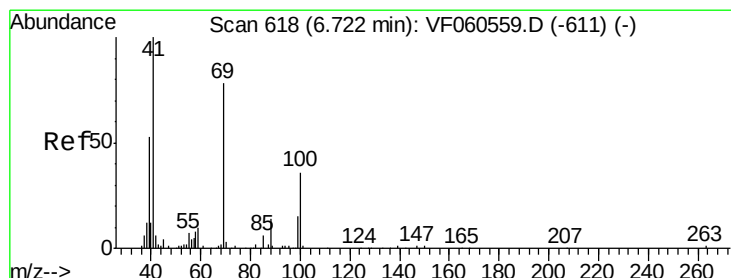
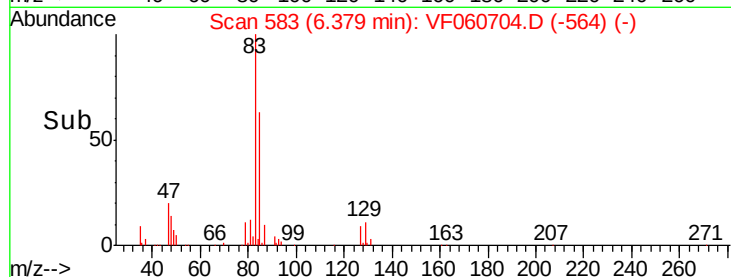
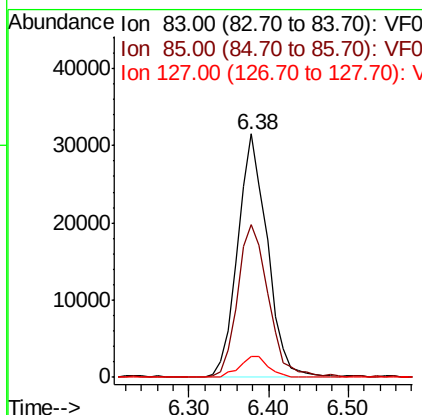
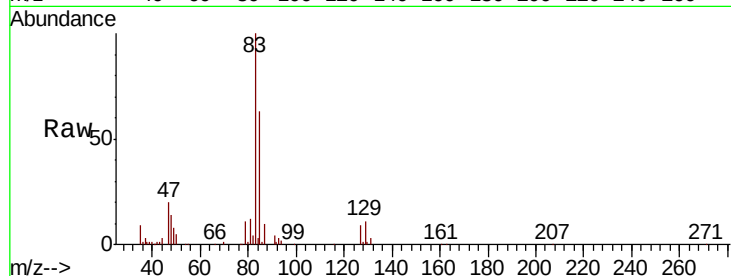
ClientSampleId :

VF1112SBSD01

Tot Ion:	83	Resp:	81426
Ion	Ratio	Lower	Upper
83	100		
85	62.9	51.8	77.6
127	8.5	7.0	10.4

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#48

Methyl methacrylate

Concen: 19.123 ug/l

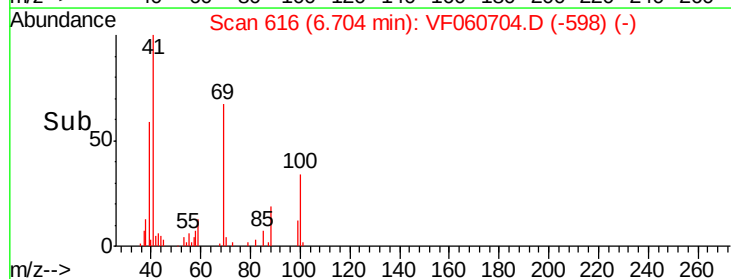
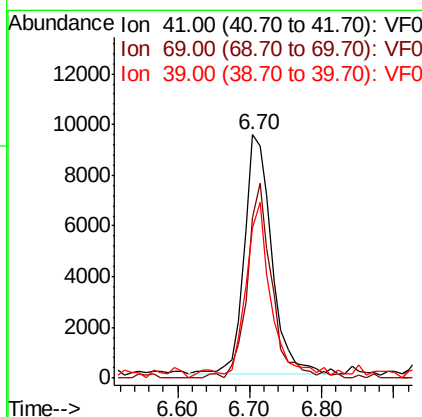
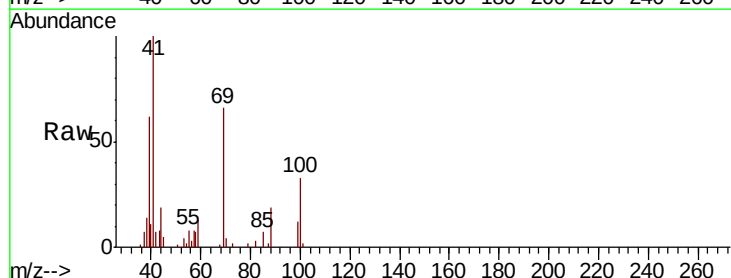
RT: 6.70 min Scan# 616

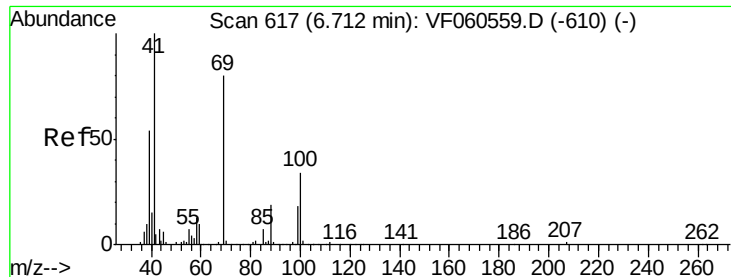
Delta R.T. -0.02 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	41	Resp:	25272
Ion	Ratio	Lower	Upper
41	100		
69	65.7	61.1	91.7
39	61.7	43.0	64.6





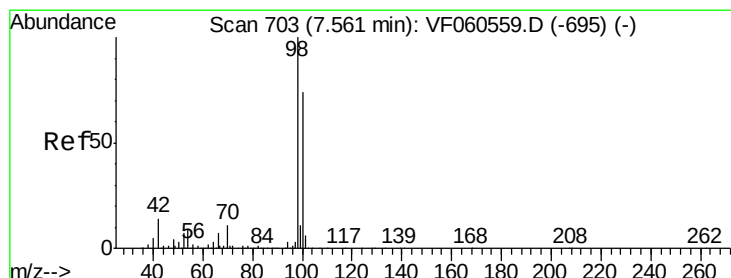
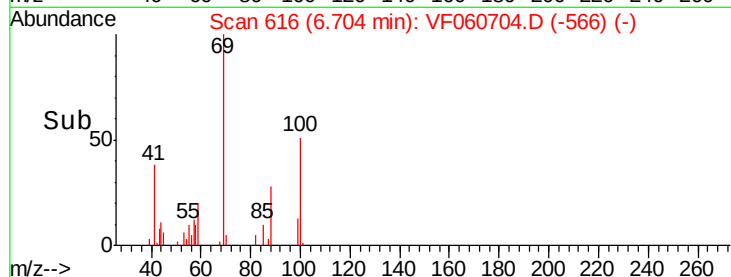
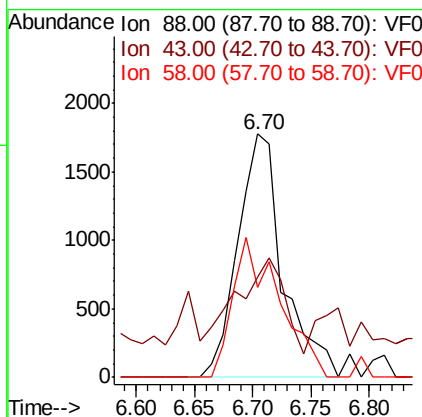
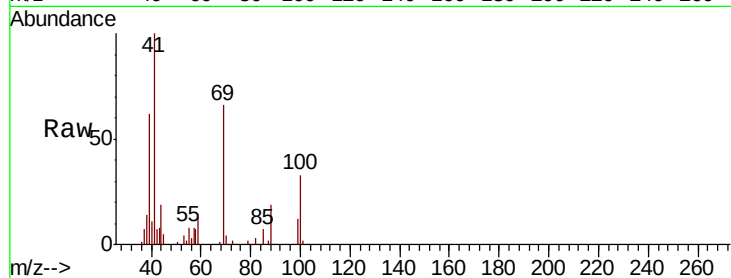
#49
1,4-Dioxane
Concen: 345.246 ug/l
RT: 6.70 min Scan# 616
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	41.2	61.2	91.8#
58	37.1	56.9	85.3#

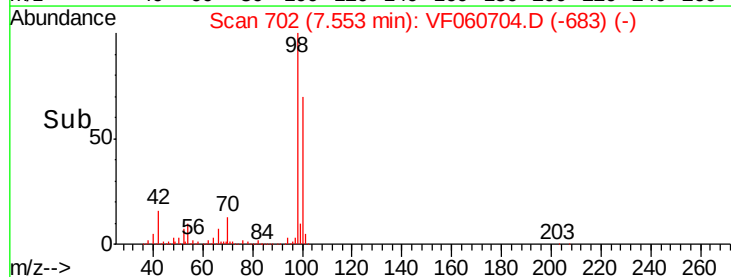
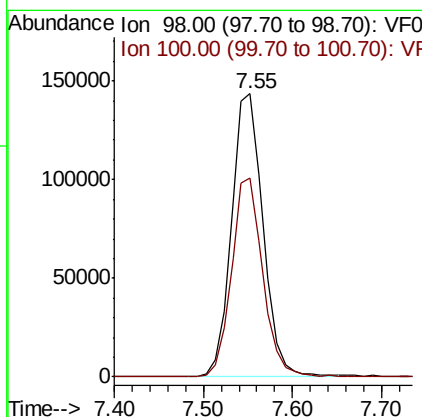
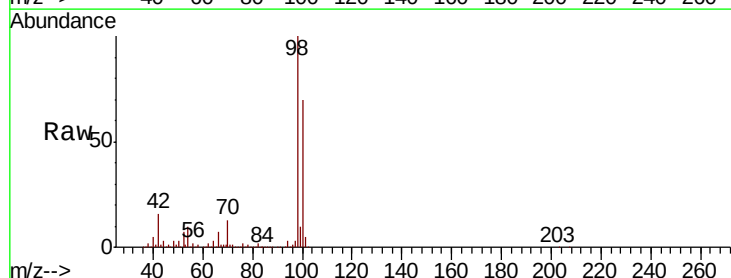
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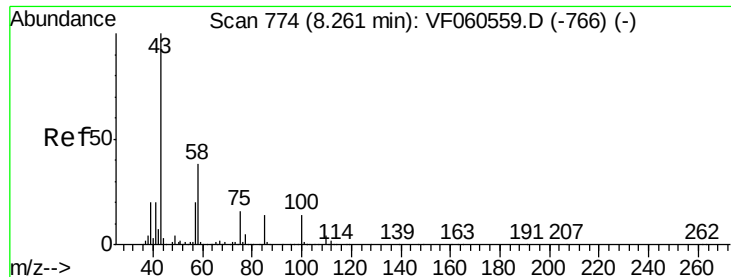
MMDadoda
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#50
Toluene-d8
Concen: 49.330 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.3	59.4	89.2





#51

4-Methyl-2-Pentanone

Concen: 100.375 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBSD01

Tot Ion: 43 Resp: 141936

Ion Ratio Lower Upper

43 100

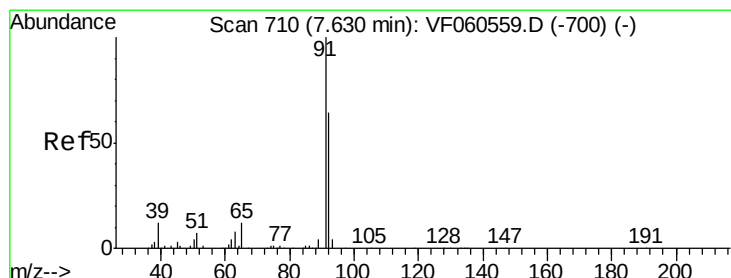
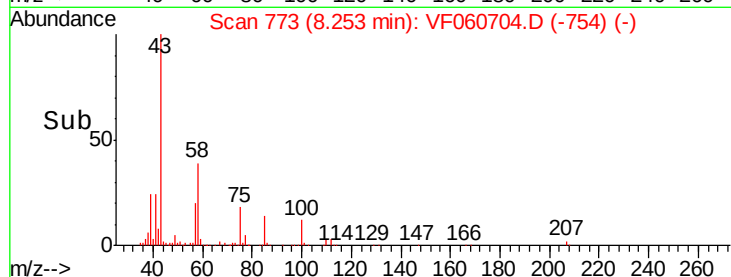
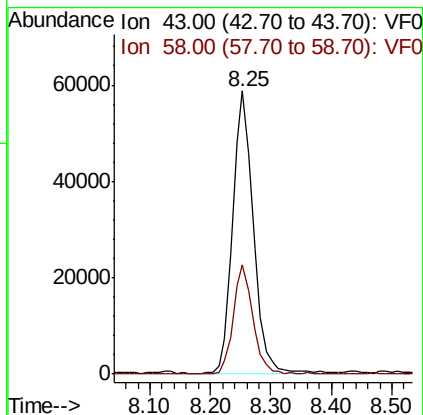
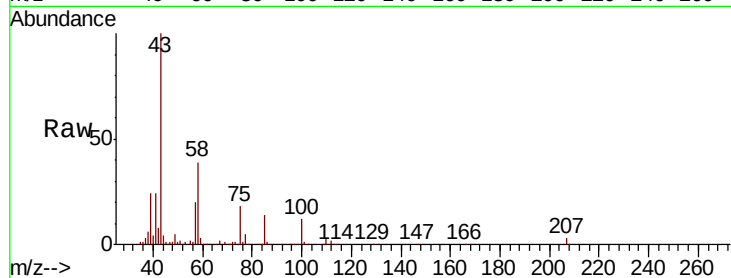
58 38.7 30.1 45.1

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#52

Toluene

Concen: 22.651 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF060704.D

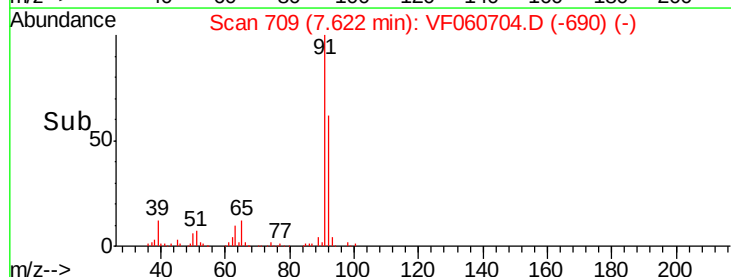
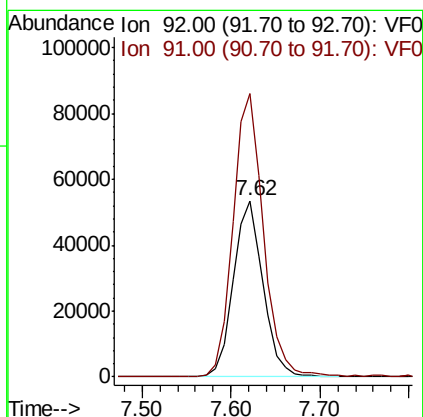
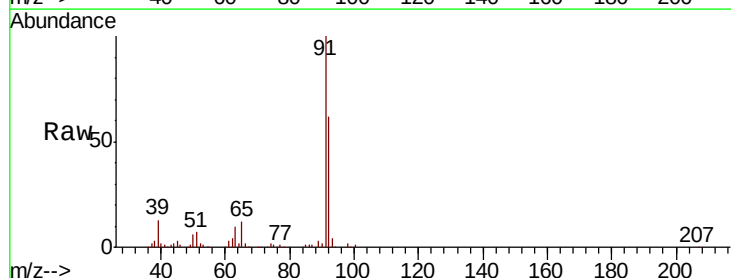
Acq: 12 Nov 2018 00:48

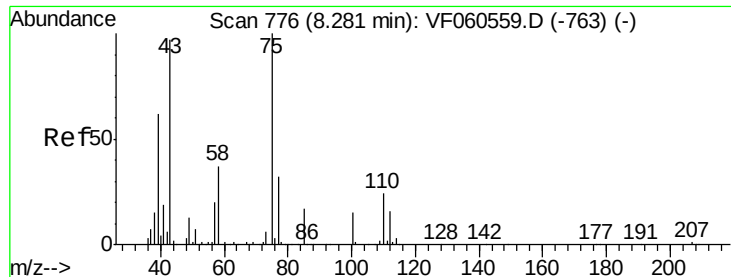
Tgt Ion: 92 Resp: 124030

Ion Ratio Lower Upper

92 100

91 160.4 124.5 186.7





#53

t-1,3-Dichloropropene

Concen: 22.092 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.01 min

Lab File: VF060704.D

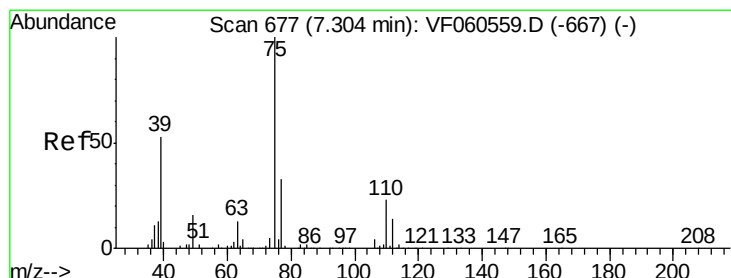
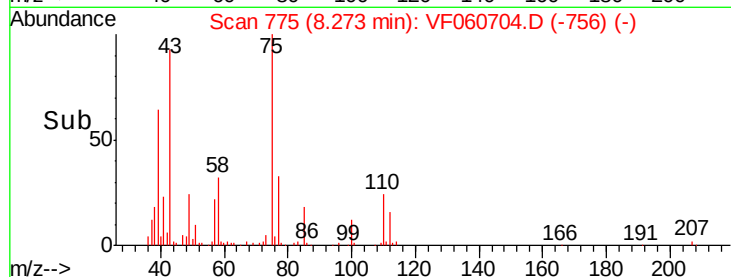
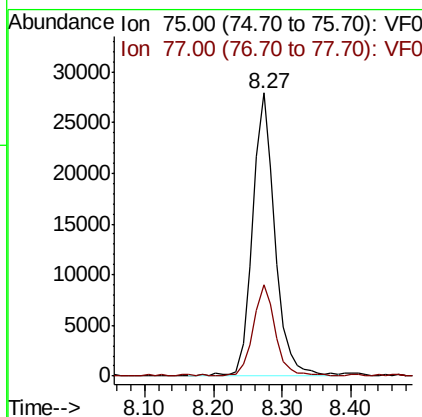
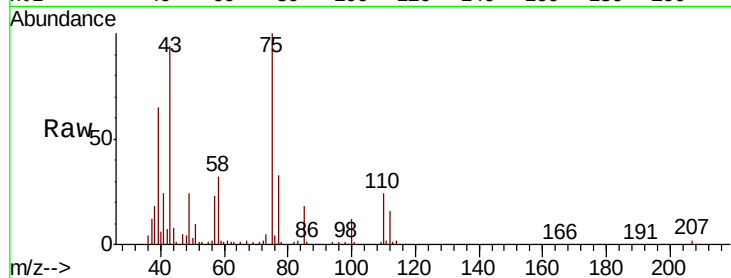
Acq: 12 Nov 2018 00:48

Tot Ion:	75	Resp:	63167
Ion Ratio	Lower	Upper	
75	100		
77	32.5	25.7	38.5

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

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#54

cis-1,3-Dichloropropene

Concen: 22.859 ug/l

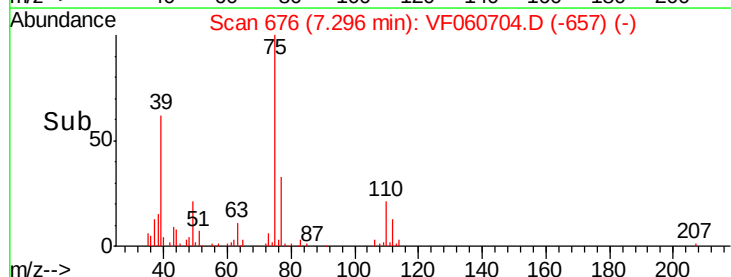
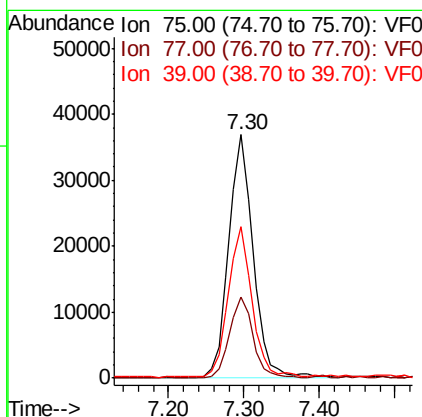
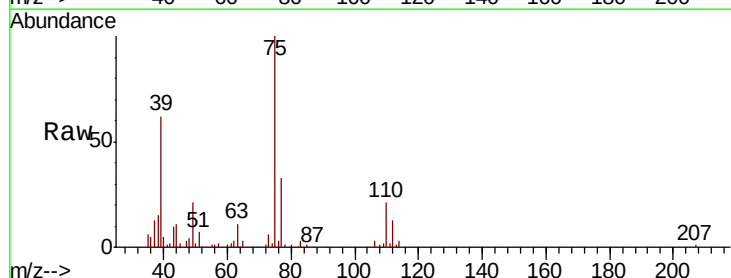
RT: 7.30 min Scan# 676

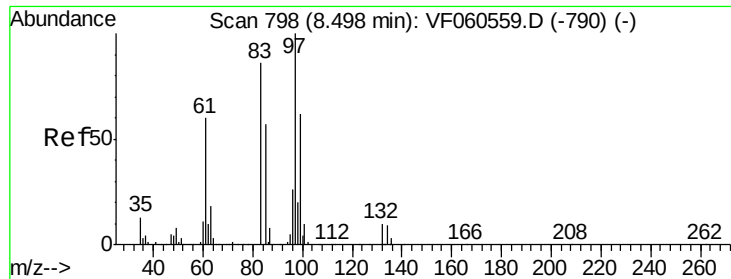
Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	75	Resp:	82578
Ion Ratio	Lower	Upper	
75	100		
77	33.3	26.7	40.1
39	62.0	43.0	64.4





#55

1,1,2-Trichloroethane

Concen: 21.423 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

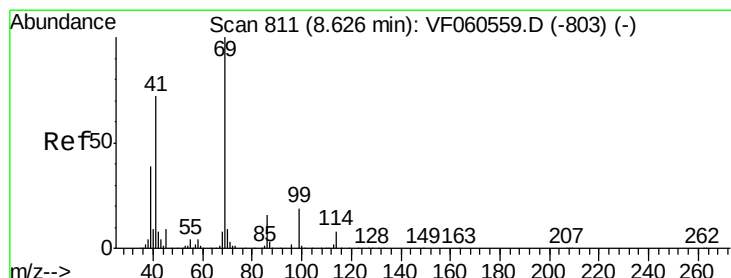
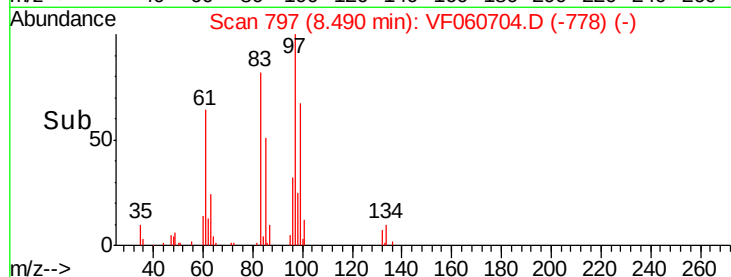
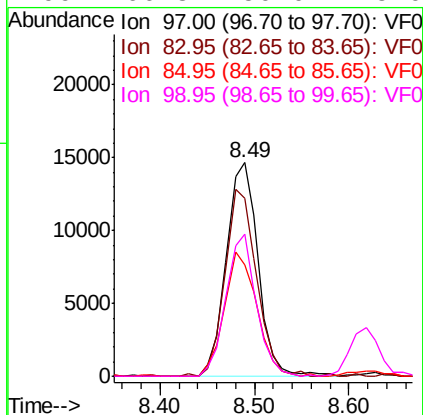
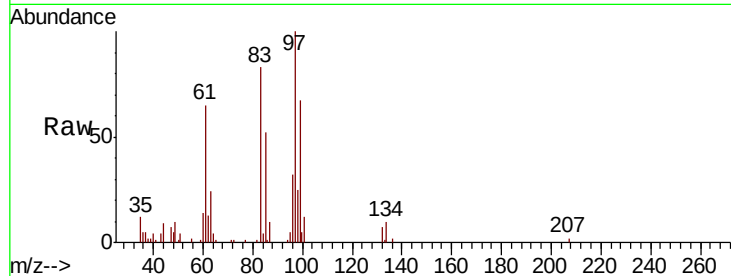
ClientSampleId :

VF1112SBSD01

Tot Ion:	97	Resp:	34136
Ion	Ratio	Lower	Upper
97	100		
83	83.5	69.4	104.0
85	52.3	46.6	69.8
99	66.8	50.0	75.0

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#56

Ethyl methacrylate

Concen: 17.808 ug/l

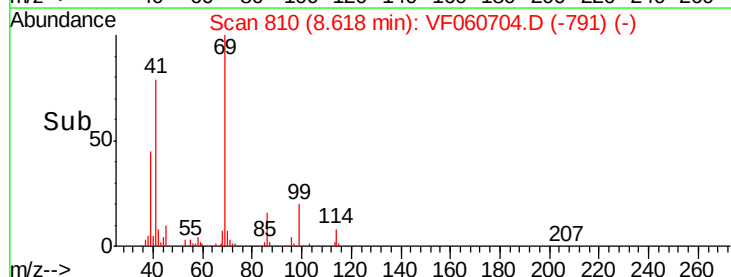
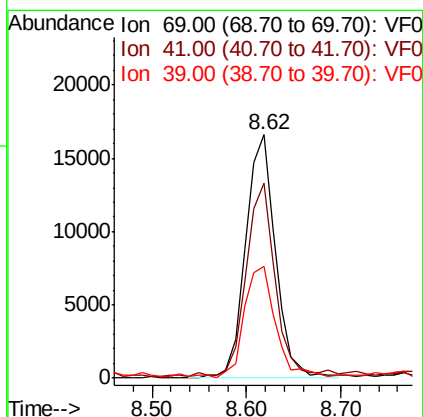
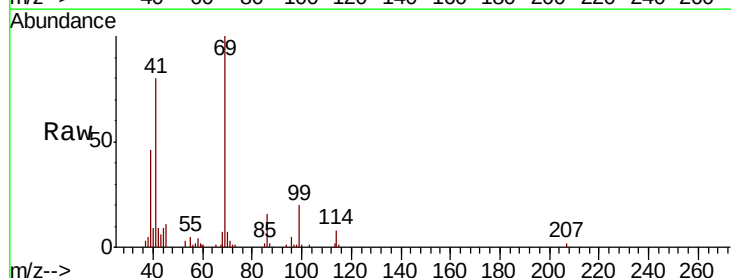
RT: 8.62 min Scan# 810

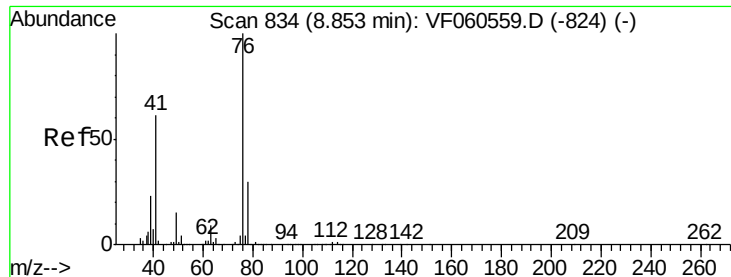
Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	69	Resp:	36508
Ion	Ratio	Lower	Upper
69	100		
41	80.2	59.2	88.8
39	46.0	32.3	48.5





#57

1,3-Dichloropropane

Concen: 21.984 ug/l

RT: 8.84 min Scan# 833

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBSD01

Tot Ion: 76 Resp: 61466

Ion Ratio Lower Upper

76 100

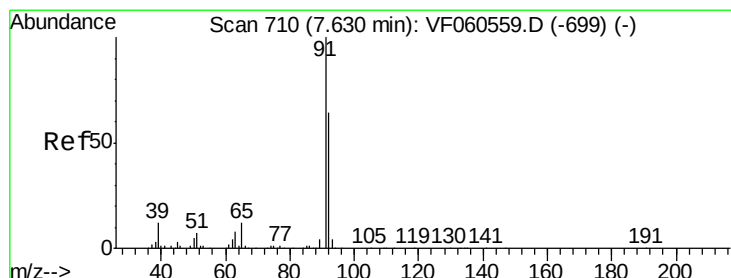
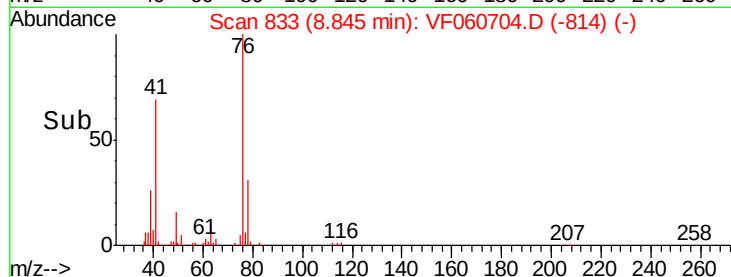
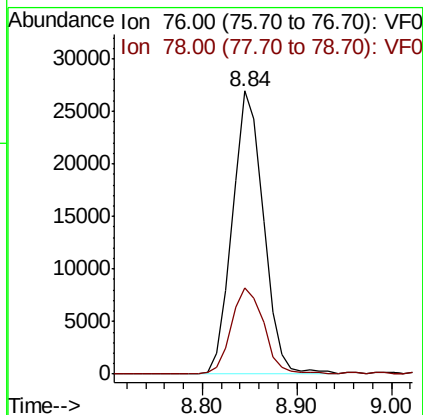
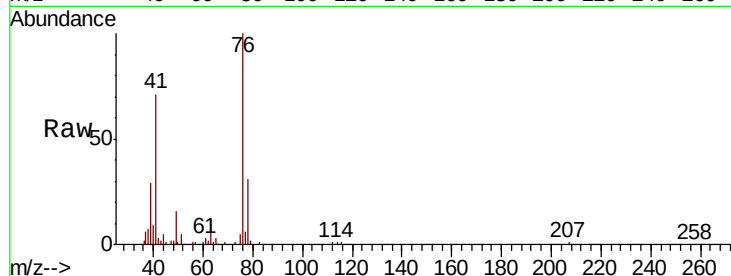
78 30.6 24.2 36.4

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#58

2-Chloroethyl Vinyl ether

Concen: 136.973 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF060704.D

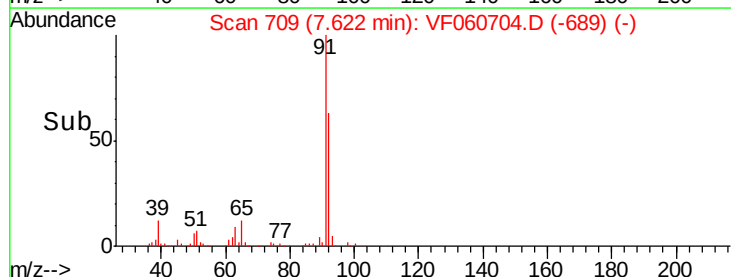
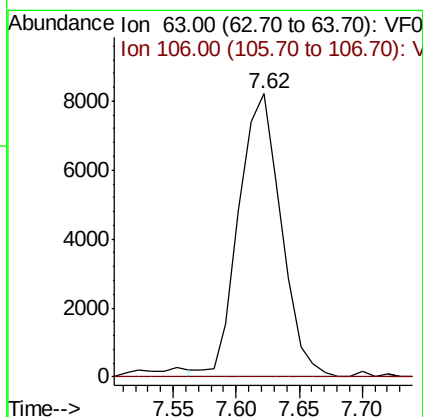
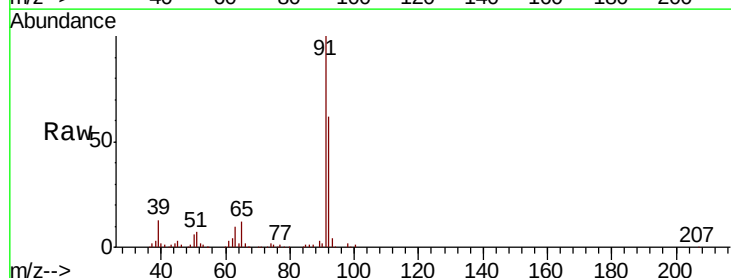
Acq: 12 Nov 2018 00:48

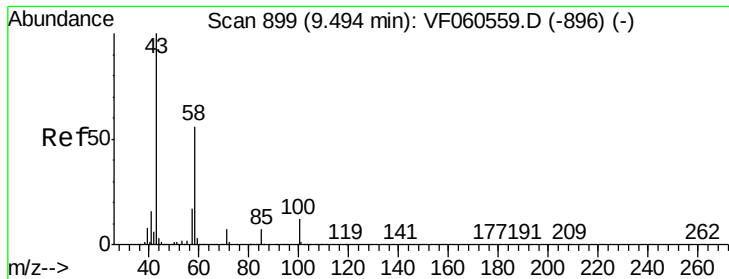
Tgt Ion: 63 Resp: 19199

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





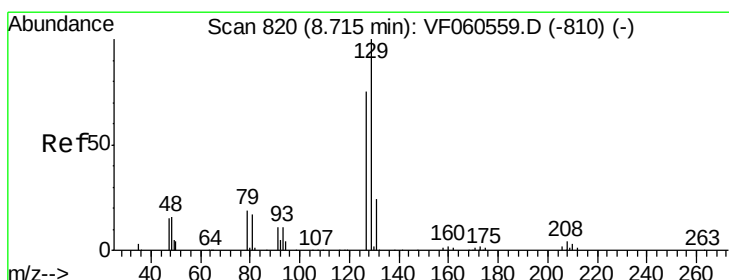
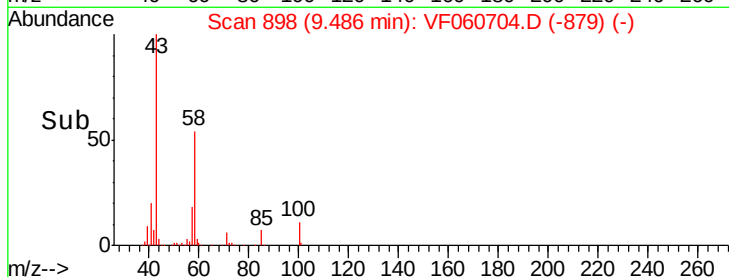
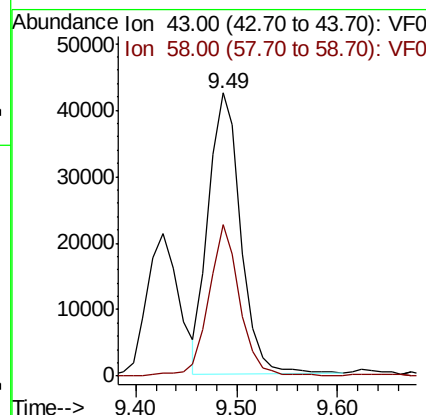
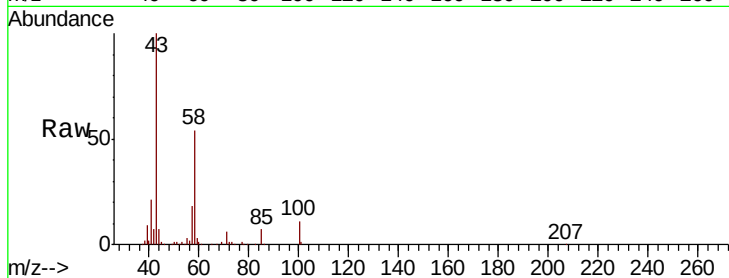
#59
2-Hexanone
Concen: 82.803 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion: 43 Resp: 93563
Ion Ratio Lower Upper
43 100
58 53.7 26.1 78.3

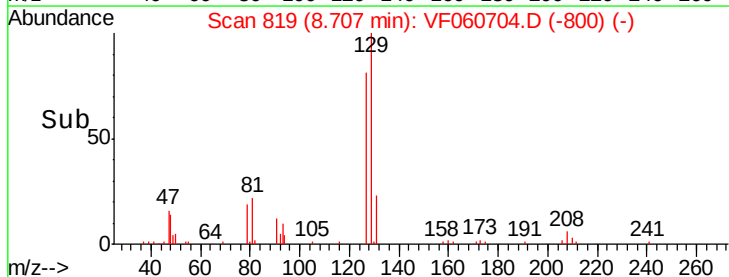
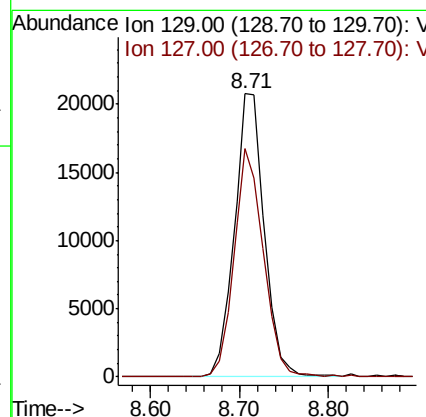
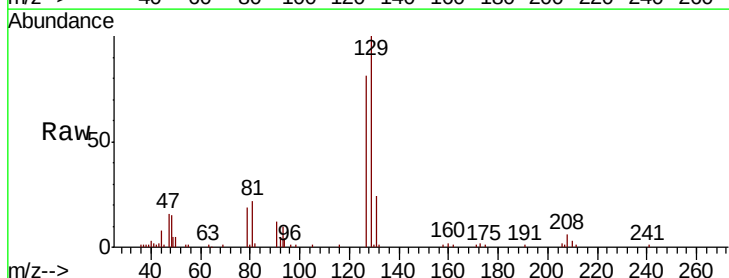
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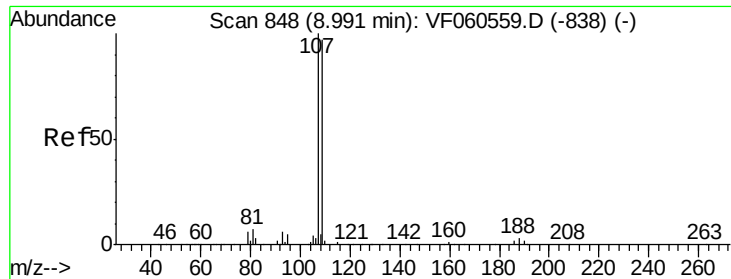
MMDadoda
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#60
Dibromochloromethane
Concen: 21.892 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion: 129 Resp: 48785
Ion Ratio Lower Upper
129 100
127 80.7 37.8 113.3





#61

1,2-Dibromoethane

Concen: 22.039 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBSD01

Tot Ion:107 Resp: 36930

Ion Ratio Lower Upper

107 100

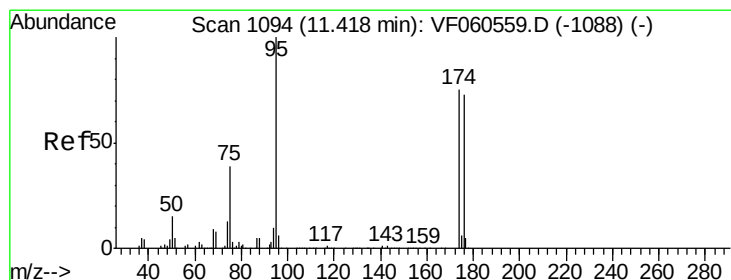
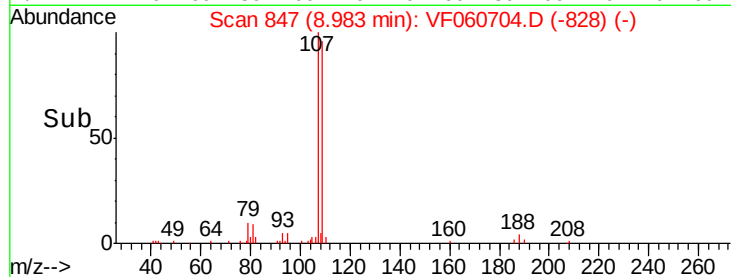
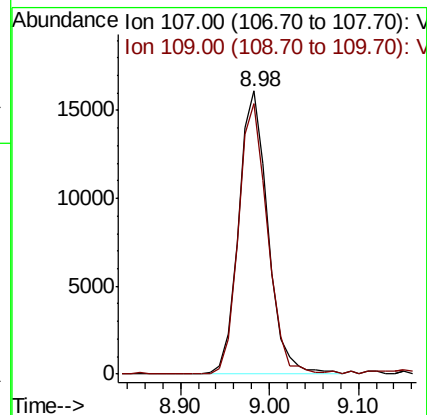
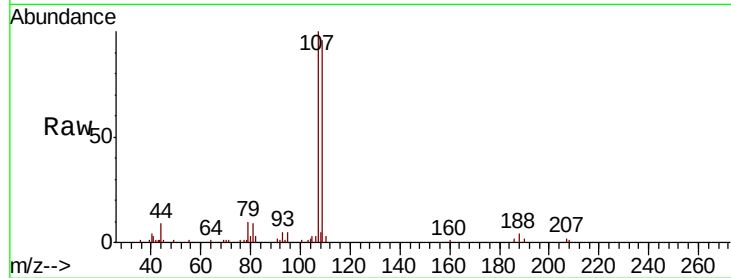
109 95.7 77.5 116.3

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 52.771 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

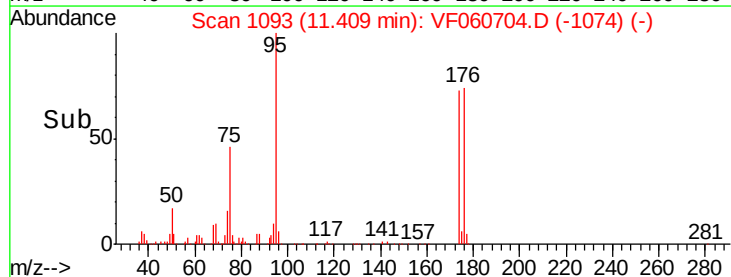
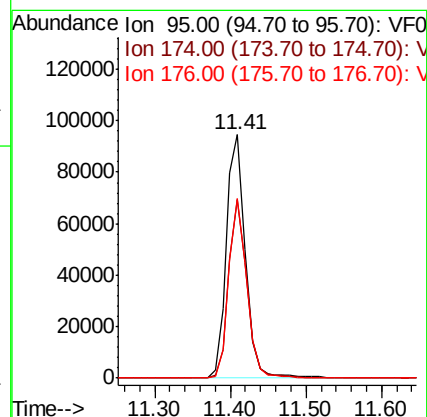
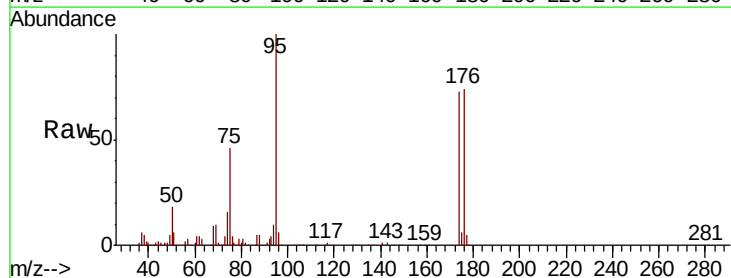
Tgt Ion: 95 Resp: 166157

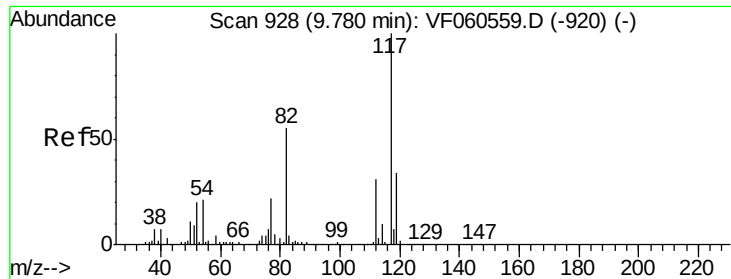
Ion Ratio Lower Upper

95 100

174 73.0 0.0 149.0

176 73.8 0.0 145.6





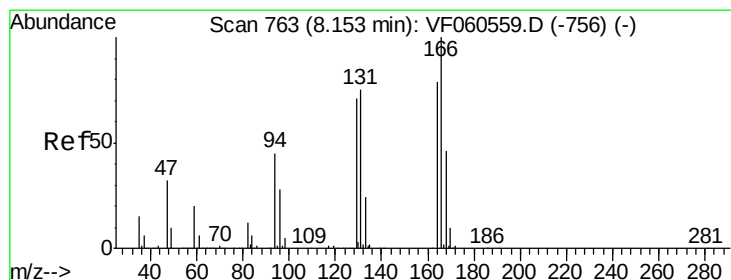
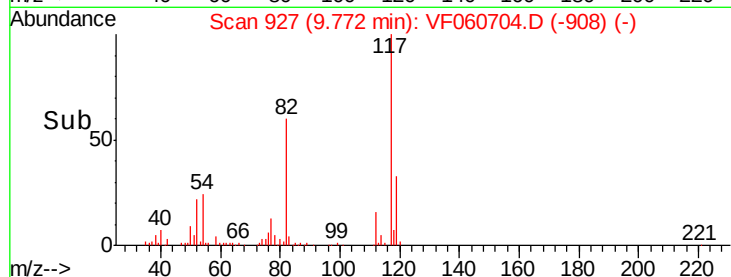
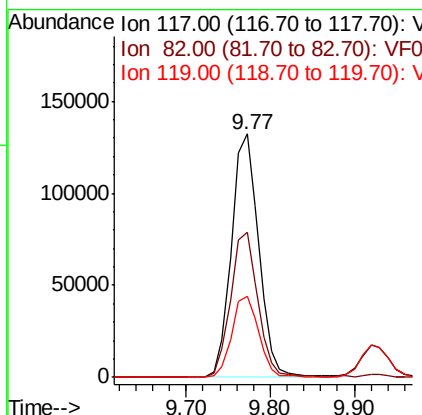
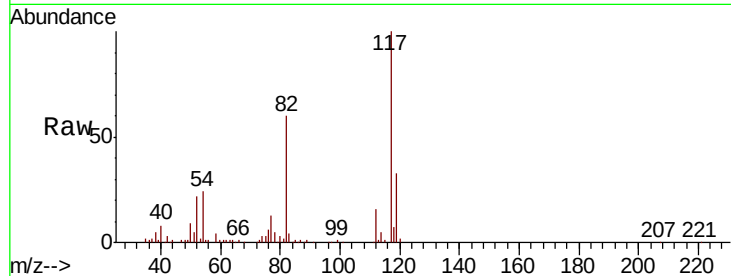
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	300212		
82	59.8		43.9	65.9
119	33.4		27.4	41.0

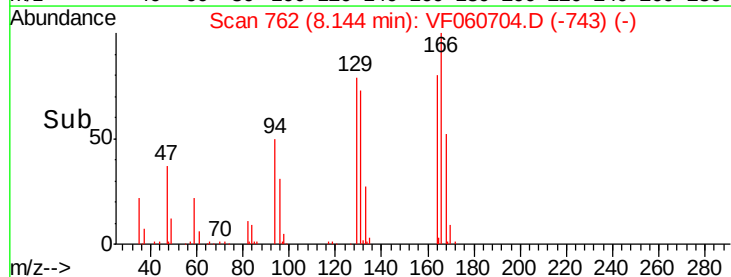
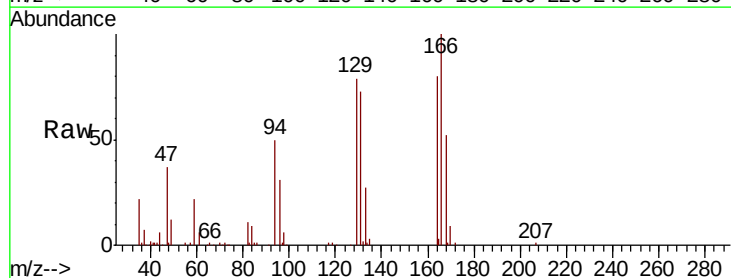
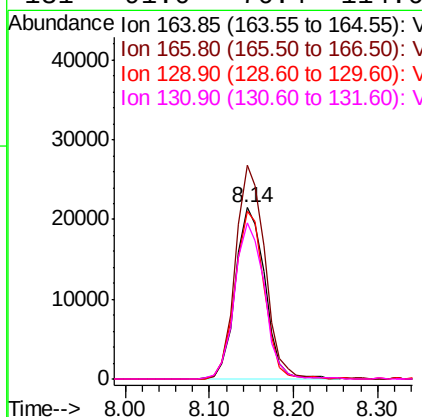
Manual Integrations
APPROVED

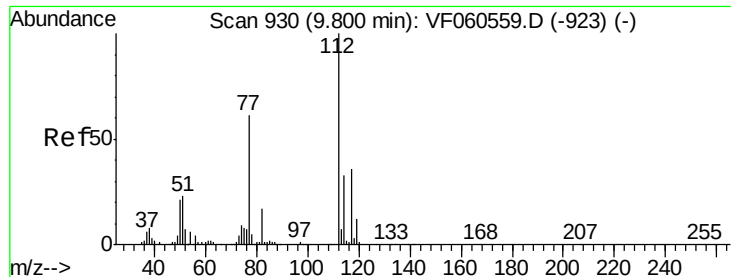
MMDadoda
11/13/2018 2:11:11 PM



#64
Tetrachloroethene
Concen: 22.211 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	52257		
166	124.9		101.5	152.3
129	98.4		72.5	108.7
131	91.0		76.4	114.6





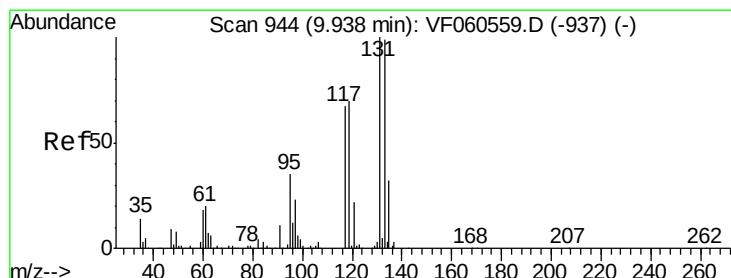
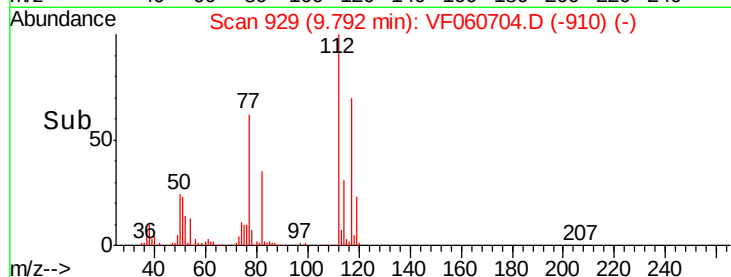
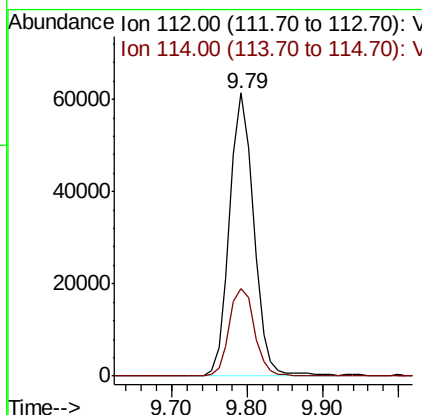
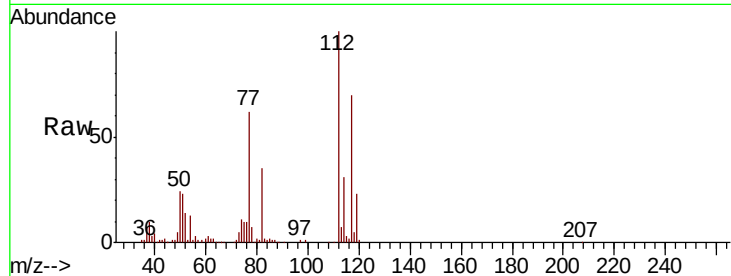
#65
Chlorobenzene
Concen: 22.200 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.6	40.0

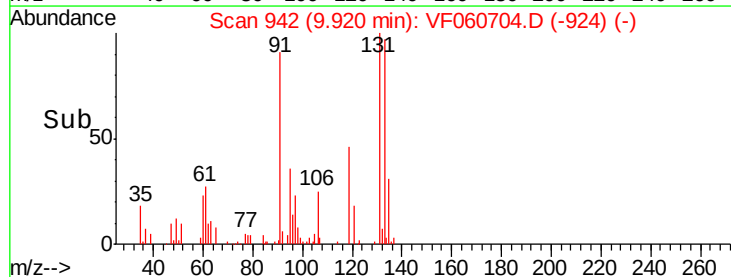
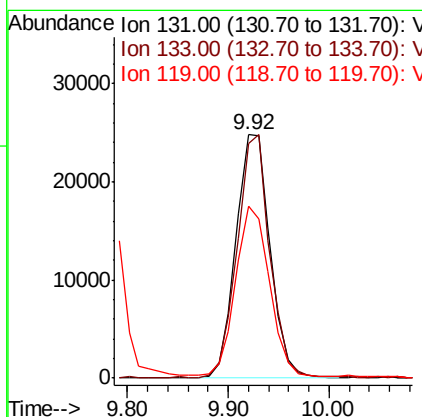
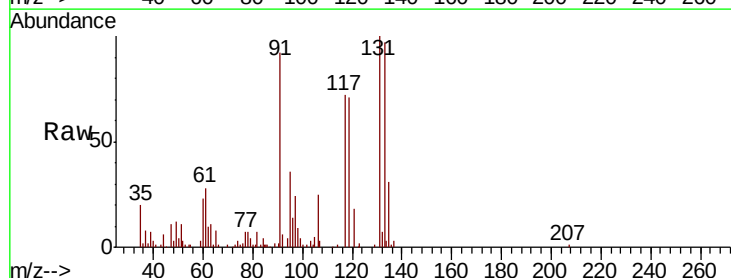
Manual Integrations
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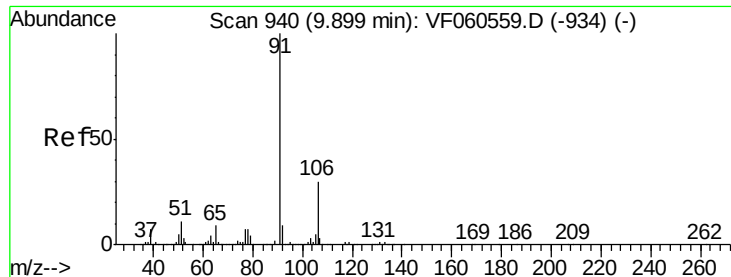
MMDadoda
11/13/2018 2:11:11 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.534 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.6	49.5	148.7
119	70.5	35.2	105.6





#67

Ethyl Benzene

Concen: 21.973 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBSD01

Tot Ion: 91 Resp: 244803

Ion Ratio Lower Upper

91 100

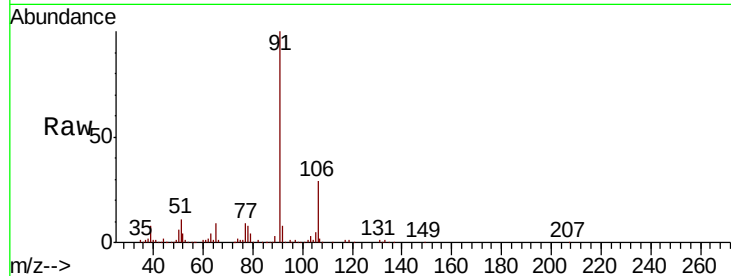
106 29.0 24.2 36.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

120000

100000

80000

60000

40000

20000

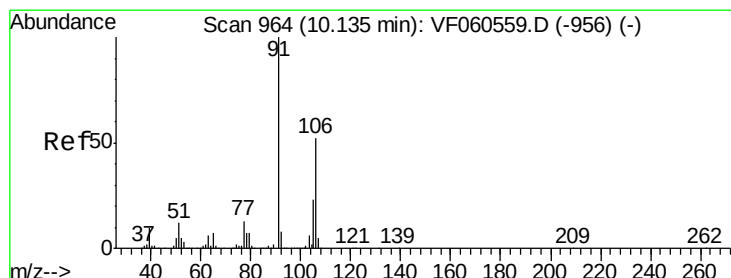
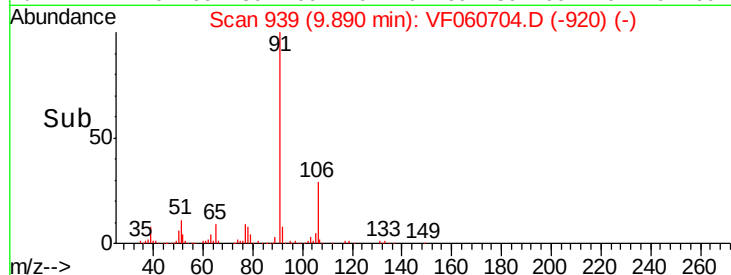
0

9.80

9.90

10.00

Time-->



#68

m/p-Xylenes

Concen: 42.305 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF060704.D

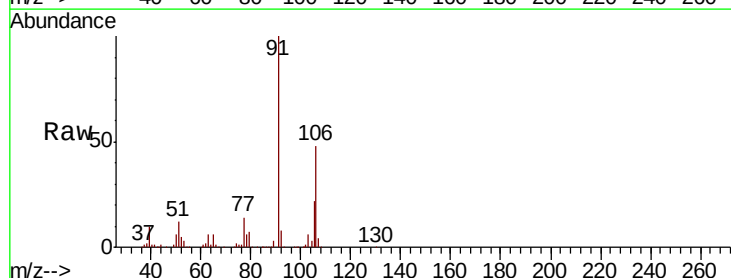
Acq: 12 Nov 2018 00:48

Tgt Ion:106 Resp: 177538

Ion Ratio Lower Upper

106 100

91 208.7 153.9 230.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

100000

50000

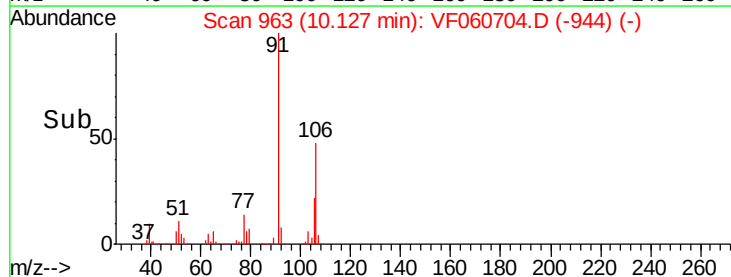
0

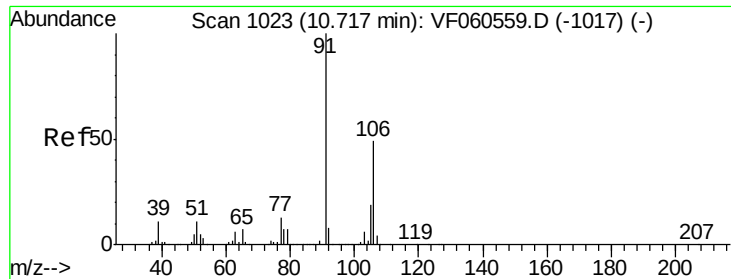
10.00

10.10

10.20

Time-->





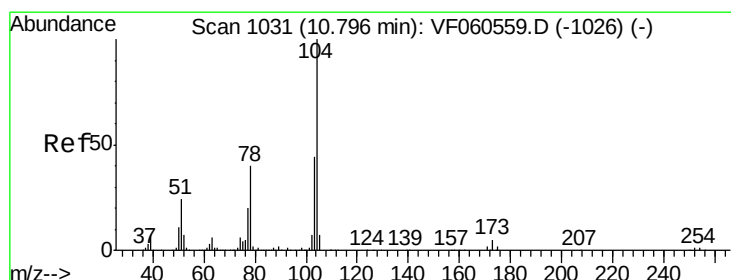
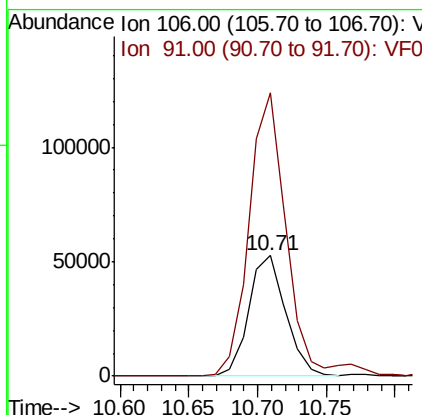
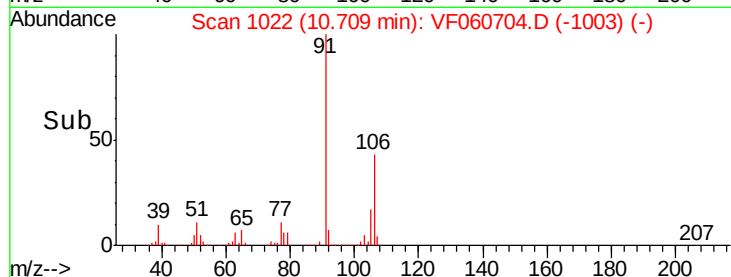
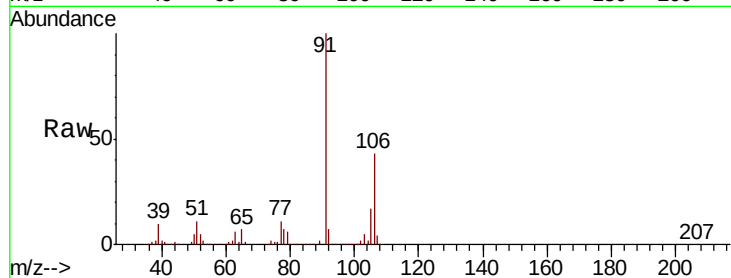
#69
o-Xylene
Concen: 21.672 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		99310		
91	234.4	101.8	305.3		

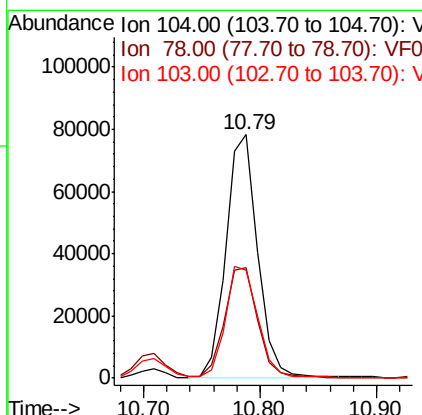
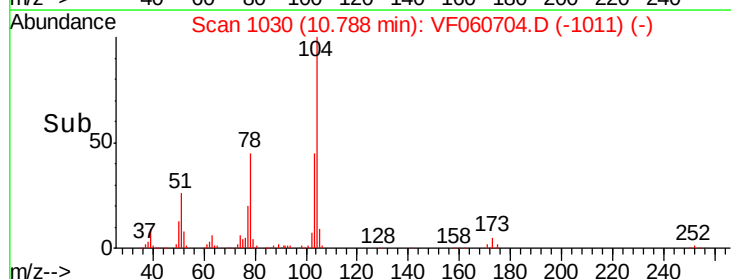
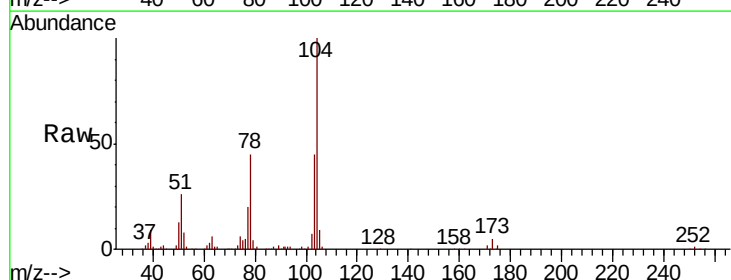
Manual Integrations
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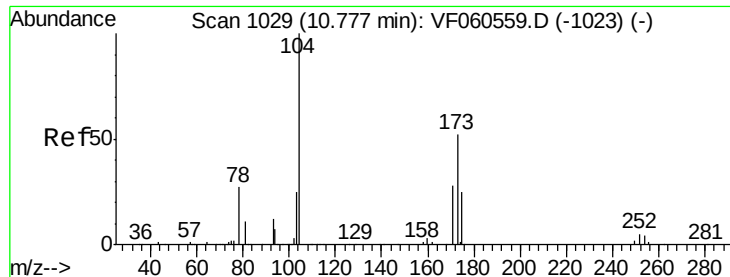
MMDadoda
11/13/2018 2:11:11 PM



#70
Styrene
Concen: 22.033 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		146273		
78	45.2	32.6	49.0		
103	44.5	35.2	52.8		





#71

Bromoform

Concen: 19.699 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

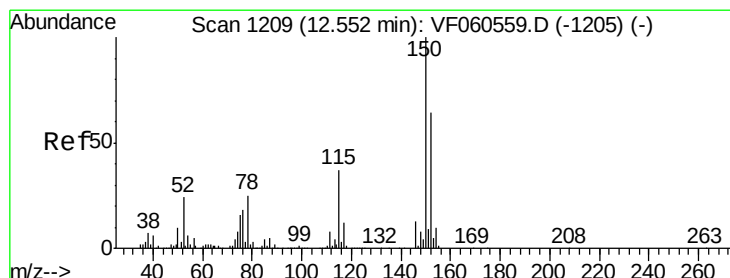
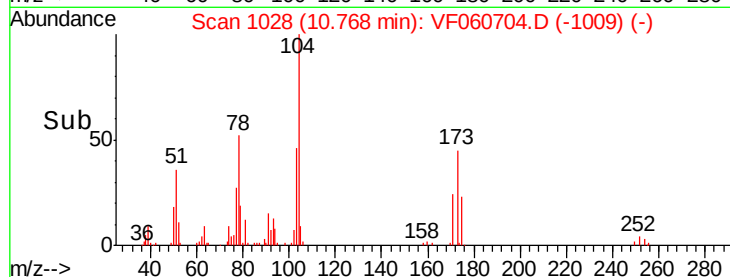
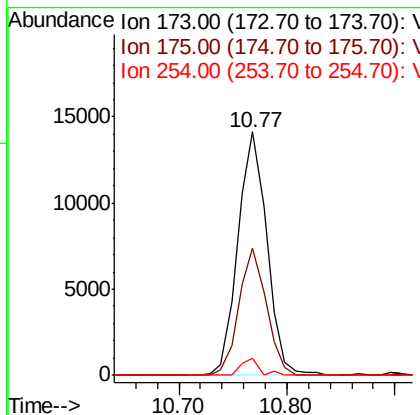
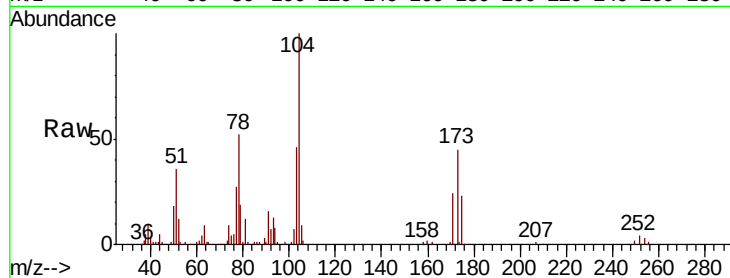
ClientSampleId :

VF1112SBSD01

Tot Ion:	173	Resp:	26393
Ion Ratio	Lower	Upper	
173	100		
175	52.1	24.3	72.9
254	7.2	6.7	10.1

Manual Integrations
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11/13/2018 2:11:11 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

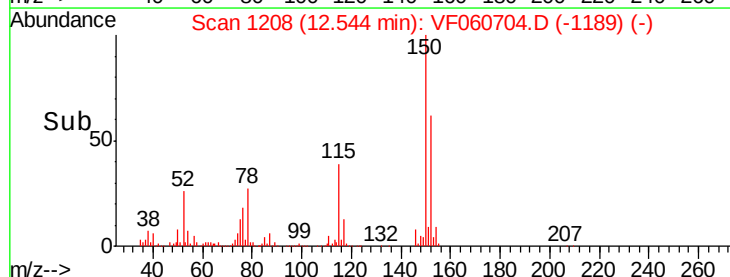
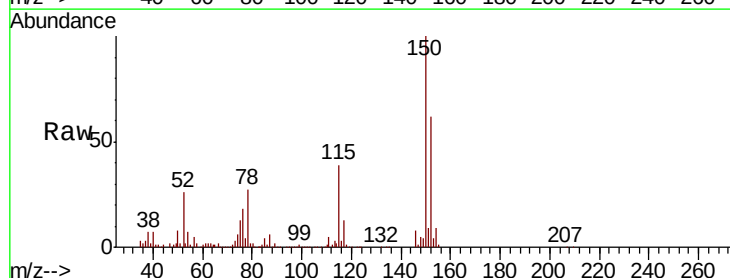
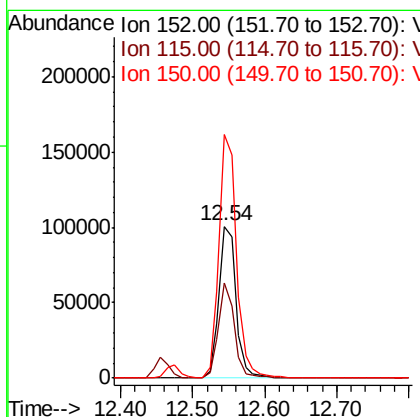
RT: 12.54 min Scan# 1208

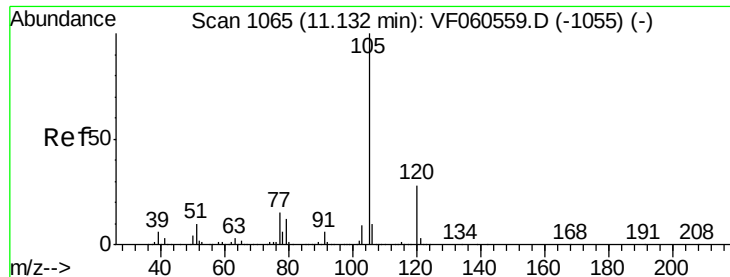
Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	152	Resp:	165065
Ion Ratio	Lower	Upper	
152	100		
115	62.7	29.6	88.8
150	160.5	0.0	315.6





#73

Isopropylbenzene

Concen: 24.630 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion:105 Resp: 317060

Ion Ratio Lower Upper

105 100

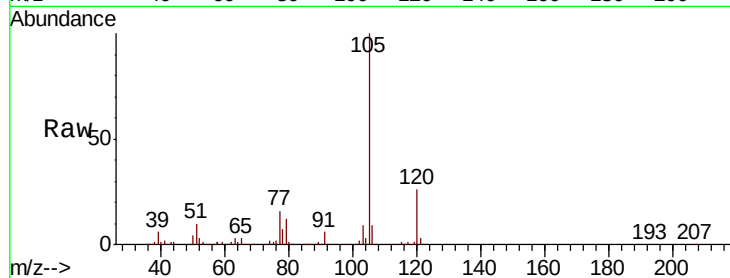
120 25.7 13.9 41.6

Manual Integrations

APPROVED

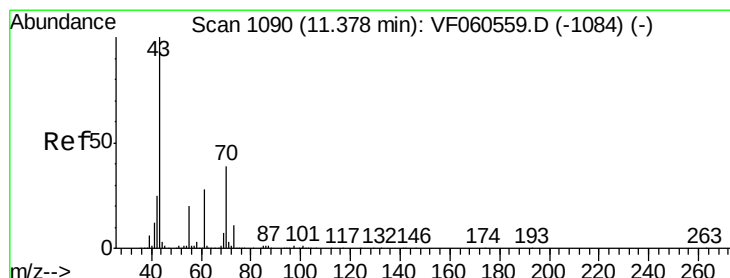
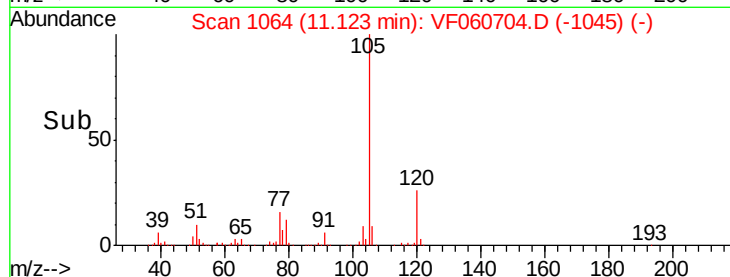
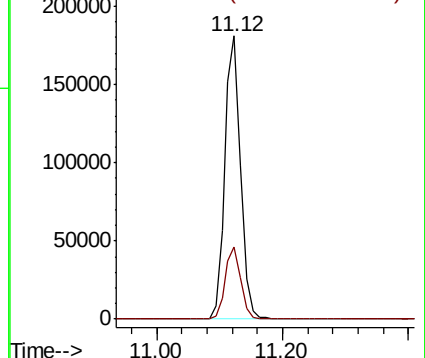
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 16.804 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion: 43 Resp: 62523

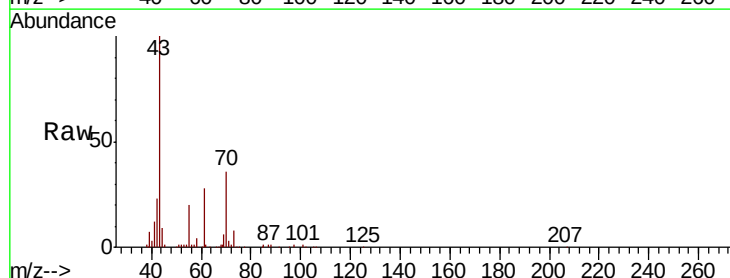
Ion Ratio Lower Upper

43 100

70 36.0 30.9 46.3

55 20.2 16.6 24.8

61 27.7 22.0 33.0

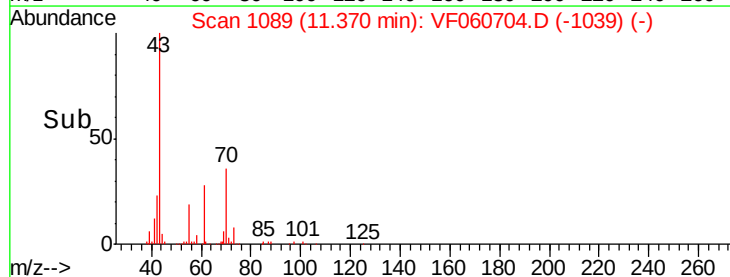
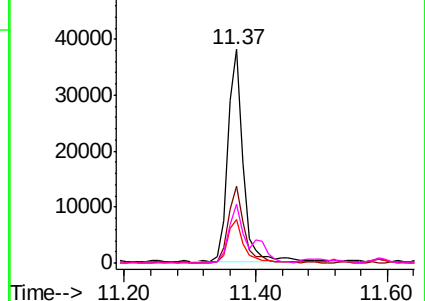


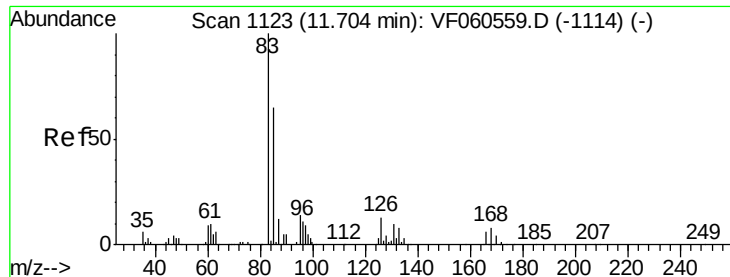
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.871 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

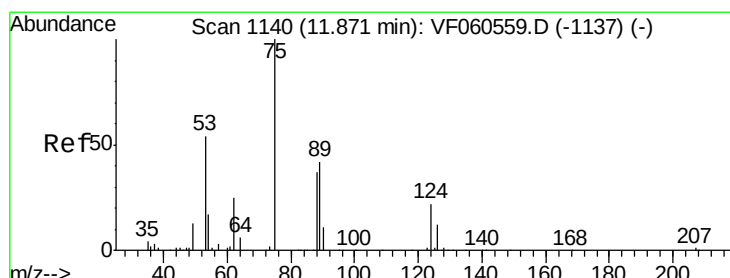
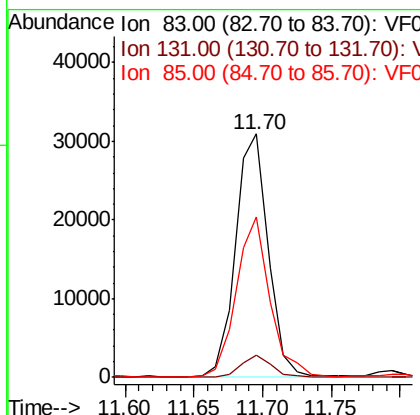
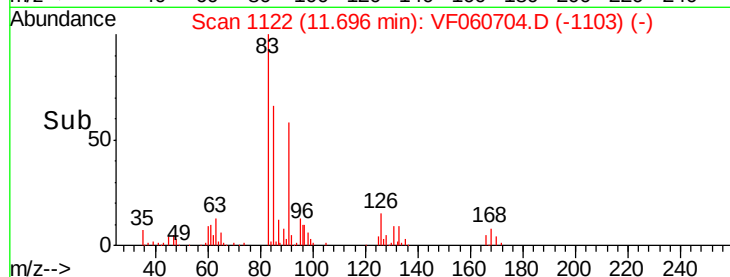
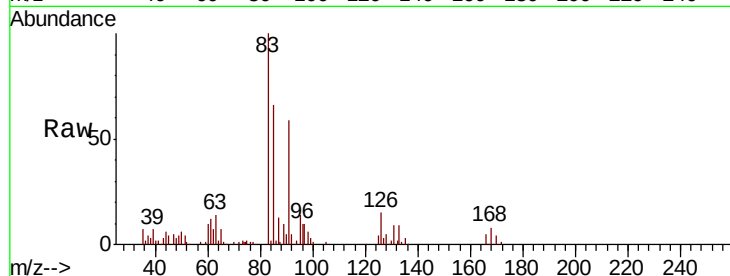
ClientSampleId :

VF1112SBSD01

Tot Ion:	83	Resp:	51391
Ion Ratio	Lower	Upper	
83	100		
131	9.2	5.0	14.9
85	65.7	32.9	98.7

Manual Integrations
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11/13/2018 2:11:11 PM



#76

1,2,3-Trichloropropane

Concen: 19.640 ug/l

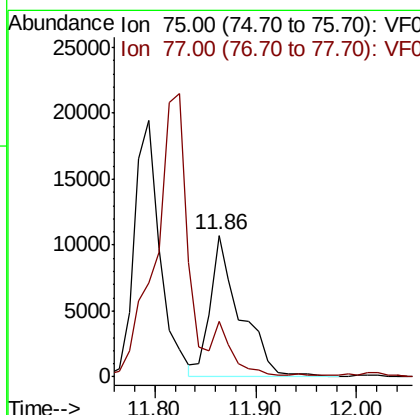
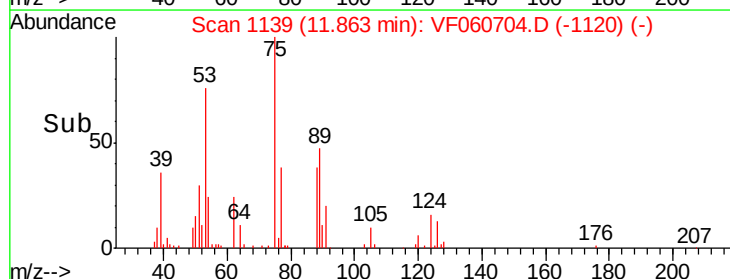
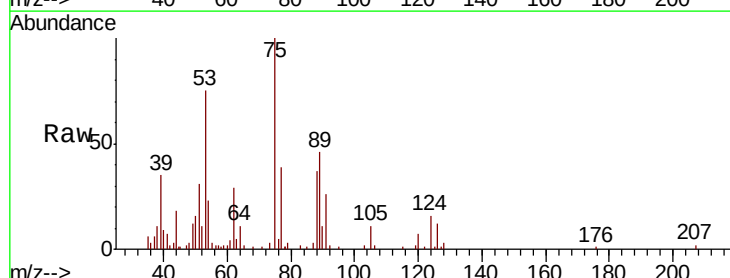
RT: 11.86 min Scan# 1139

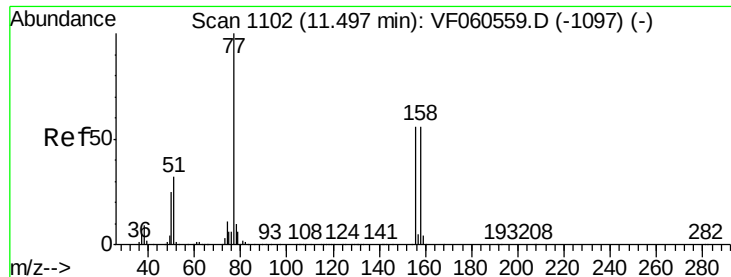
Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	75	Resp:	22679
Ion Ratio	Lower	Upper	
75	100		
77	38.9	17.4	52.3





#77

Bromobenzene

Concen: 22.648 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

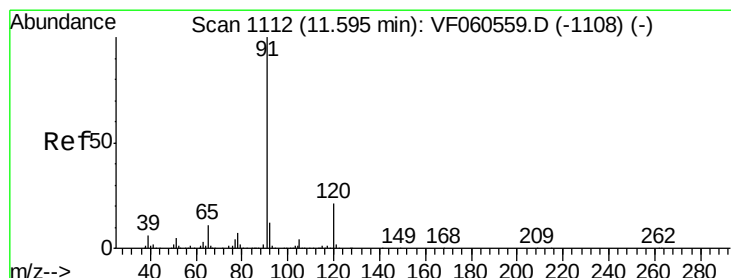
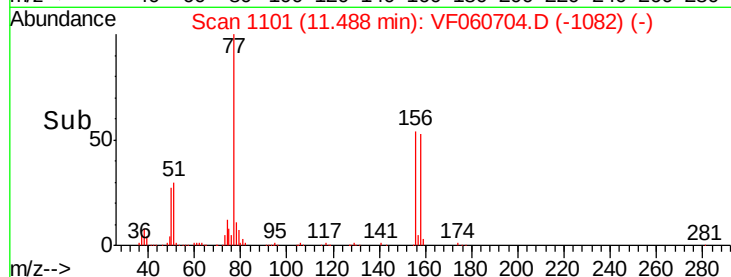
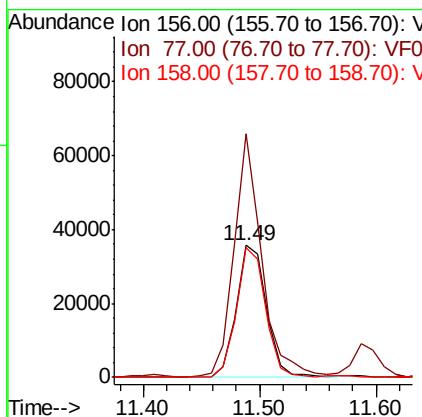
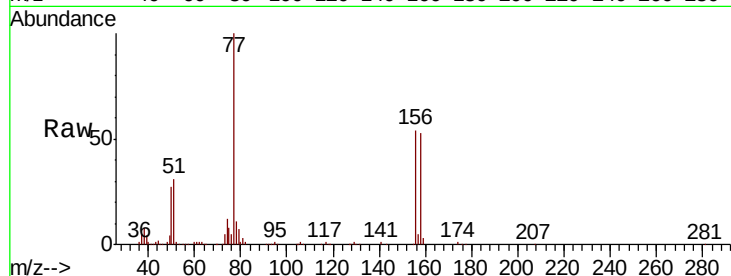
ClientSampleId :

VF1112SBS01

Tot Ion:	156	Resp:	63796
Ion	Ratio	Lower	Upper
156	100		
77	184.8	89.3	268.1
158	98.5	50.0	150.1

Manual Integrations
APPROVED

MMDadoda
11/13/2018 2:11:11 PM



#78

n-propylbenzene

Concen: 23.773 ug/l

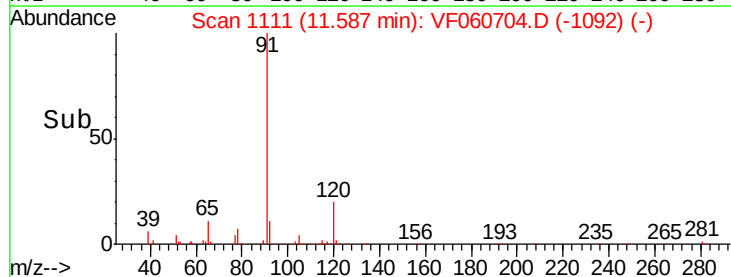
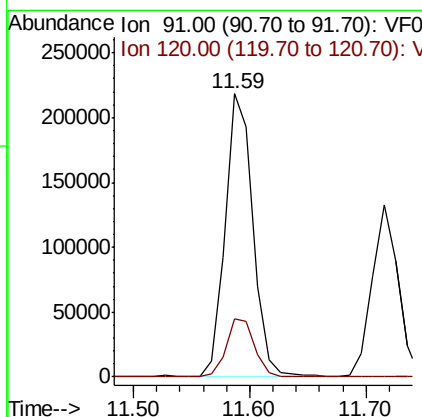
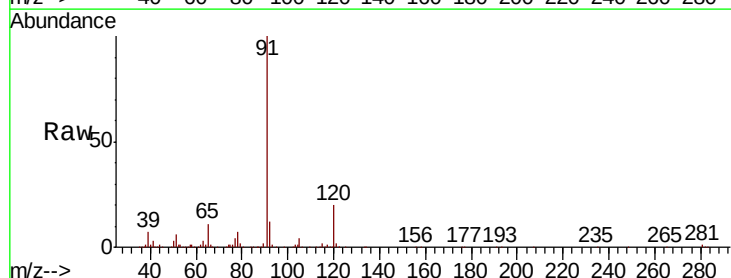
RT: 11.59 min Scan# 1111

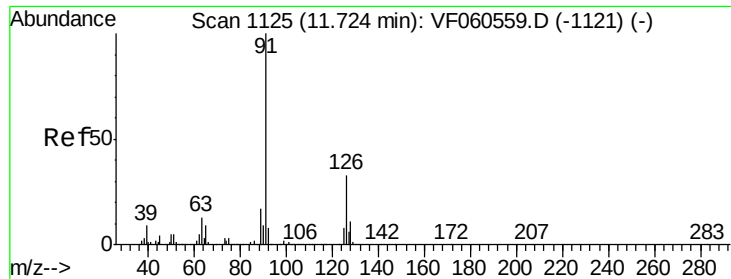
Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	91	Resp:	358063
Ion	Ratio	Lower	Upper
91	100		
120	20.4	10.5	31.6





#79

2-Chlorotoluene

Concen: 23.863 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBSD01

Tot Ion: 91 Resp: 205256

Ion Ratio Lower Upper

91 100

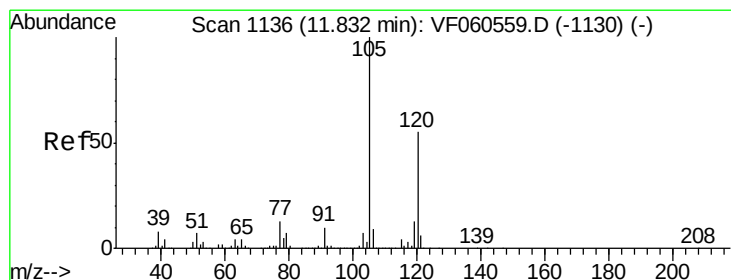
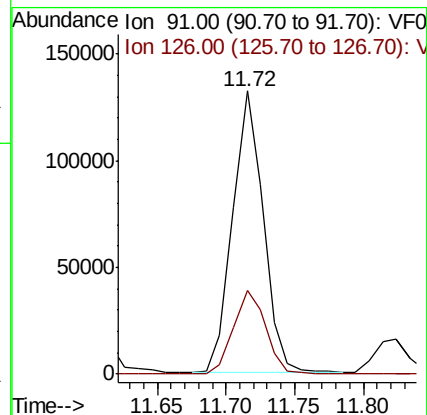
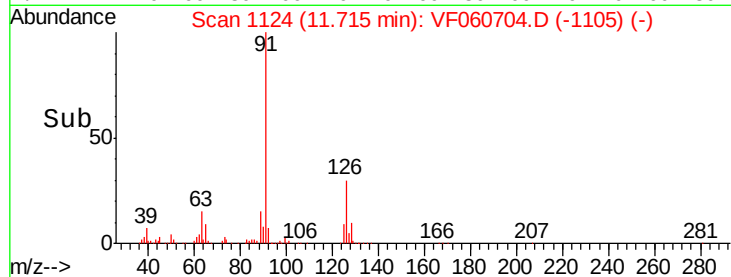
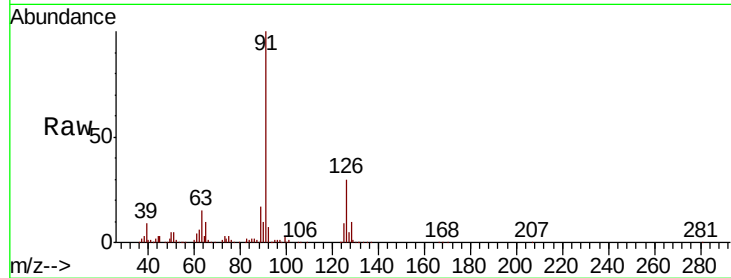
126 29.6 16.5 49.5

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 23.350 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF060704.D

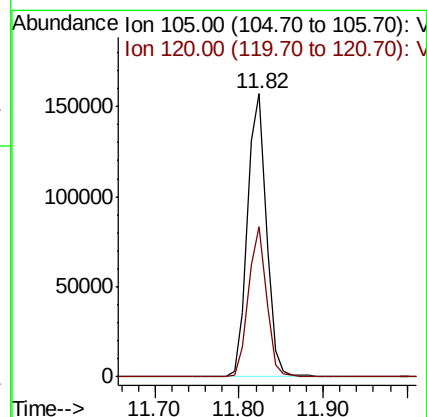
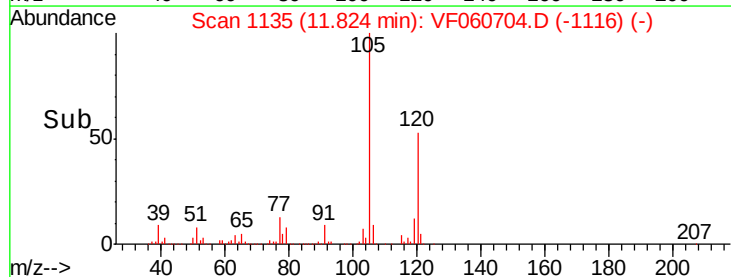
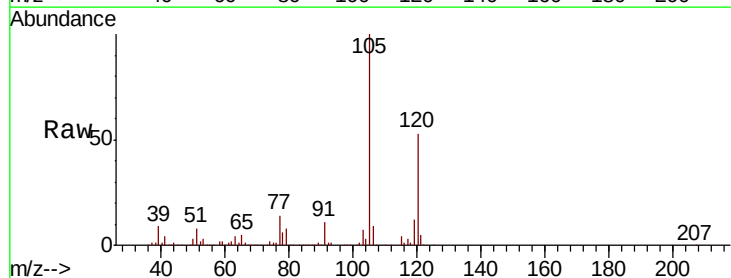
Acq: 12 Nov 2018 00:48

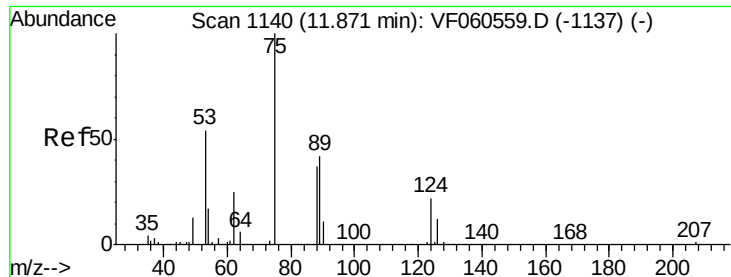
Tgt Ion: 105 Resp: 247761

Ion Ratio Lower Upper

105 100

120 53.0 27.6 82.8





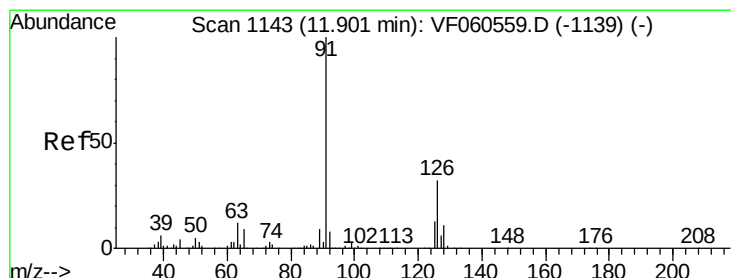
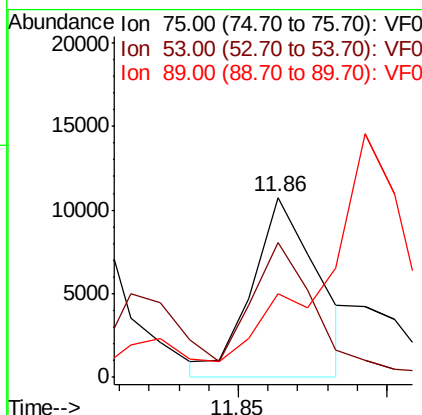
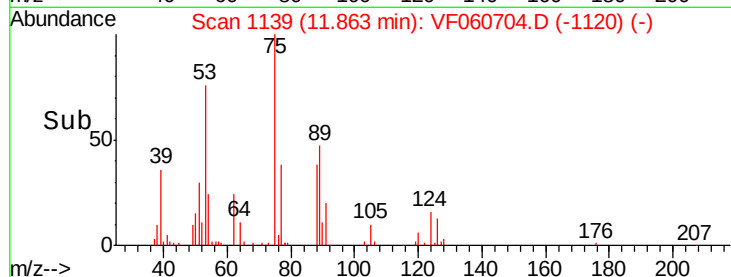
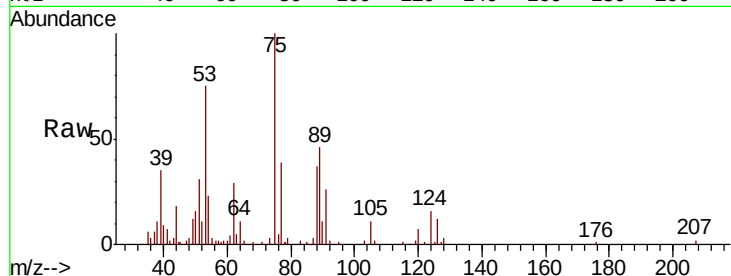
#81
trans-1,4-Dichloro-2-butene
Concen: 18.388 ug/l m
RT: 11.86 min Scan# 1139
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	74.7	51.6	77.4
89	46.3	36.7	55.1

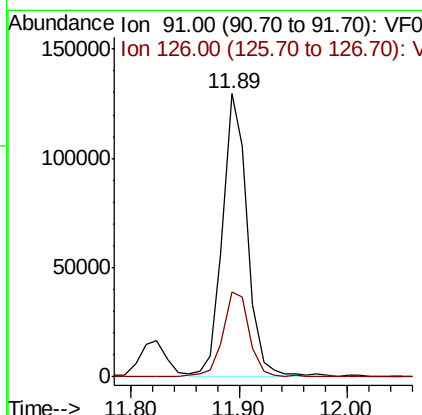
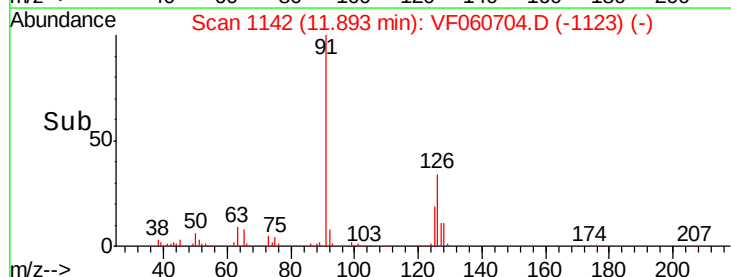
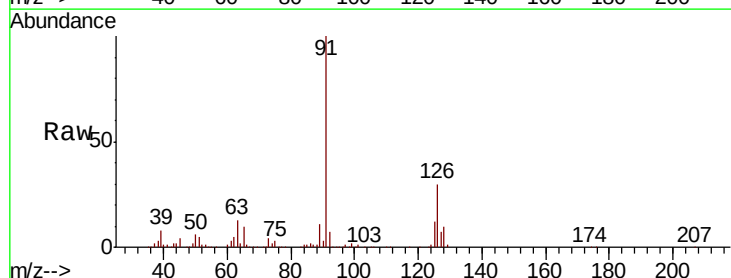
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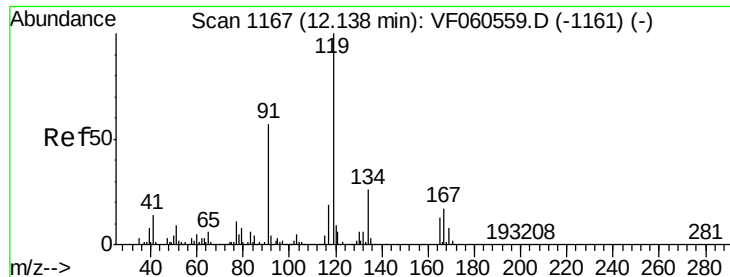
MMDadoda
11/13/2018 2:11:11 PM



#82
4-Chlorotoluene
Concen: 22.843 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.1	15.9	47.7





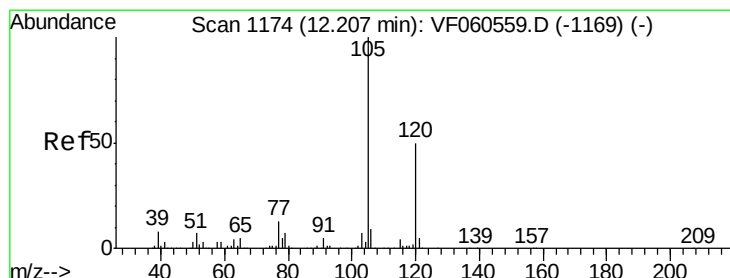
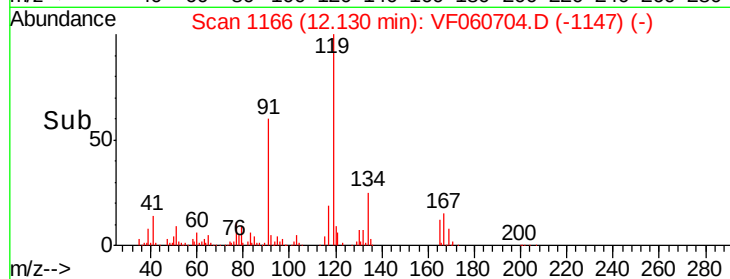
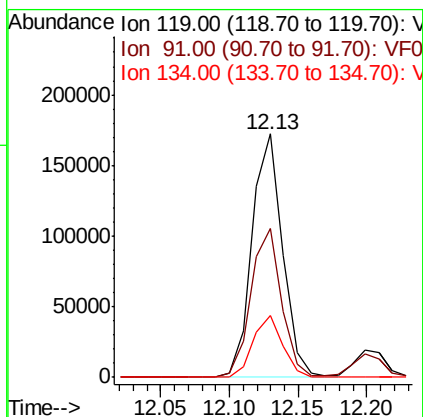
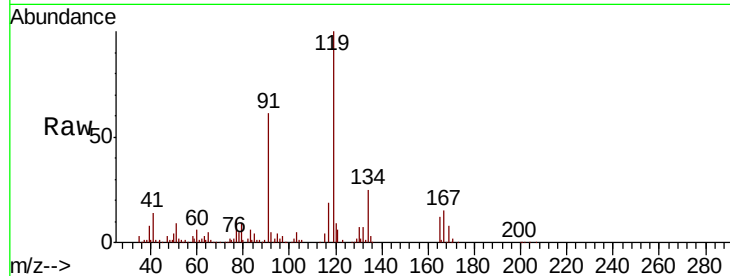
#83
tert-Butylbenzene
Concen: 24.868 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	269574		
91	61.4		28.8	86.4
134	25.4		13.2	39.6

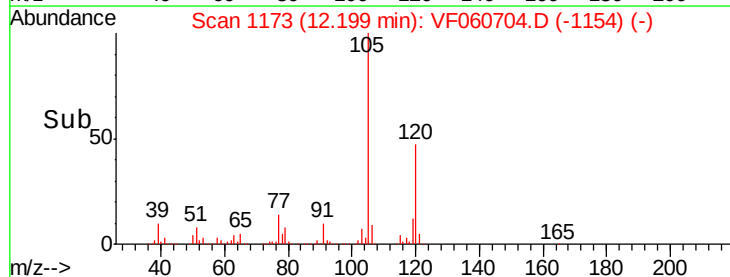
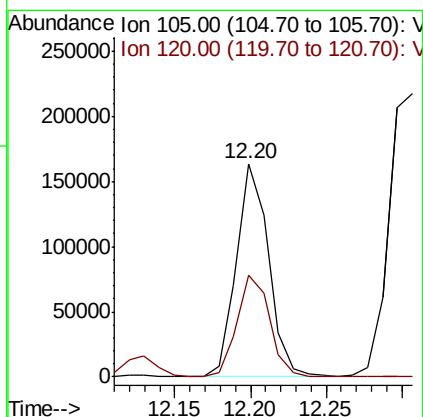
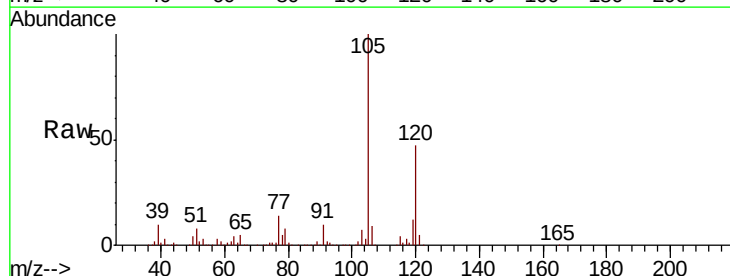
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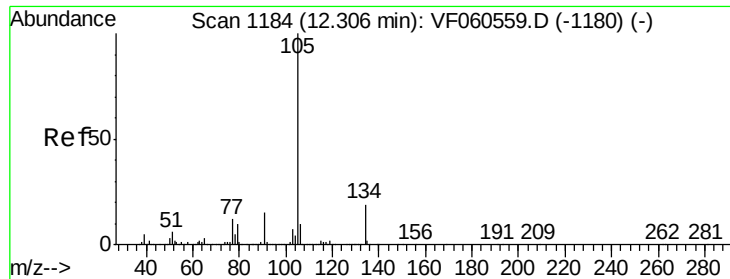
MMDadoda
11/13/2018 2:11:11 PM



#84
1,2,4-Trimethylbenzene
Concen: 23.427 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	243432		
120	47.3		25.6	76.8





#85

sec-Butylbenzene

Concen: 23.413 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion:105 Resp: 349136

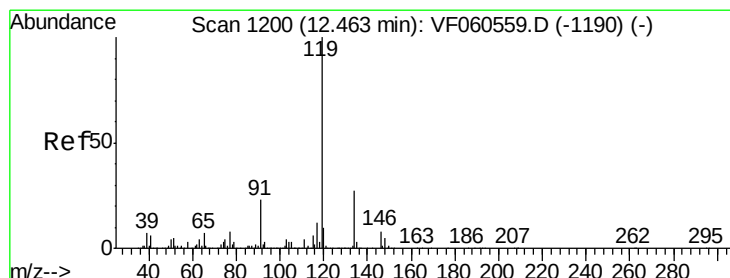
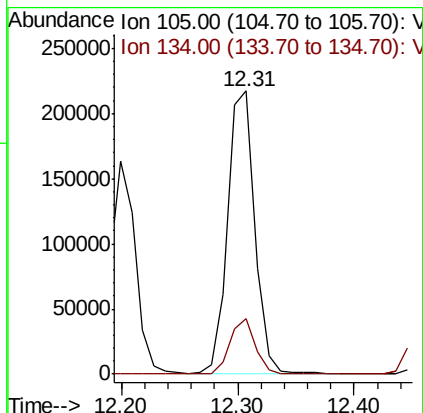
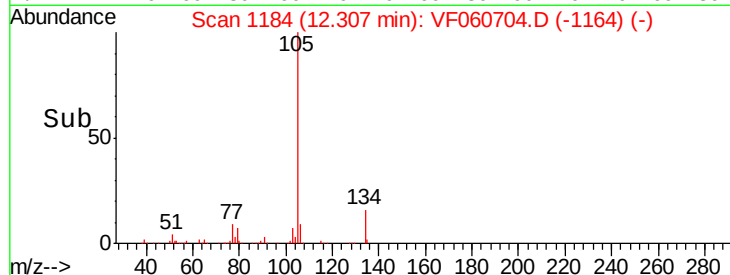
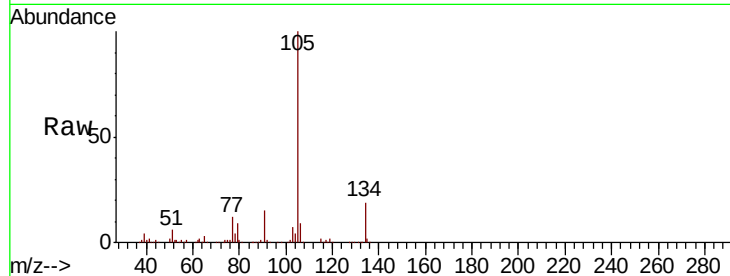
Ion Ratio Lower Upper

105 100

134 19.4 9.7 29.1

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#86

p-Isopropyltoluene

Concen: 23.223 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

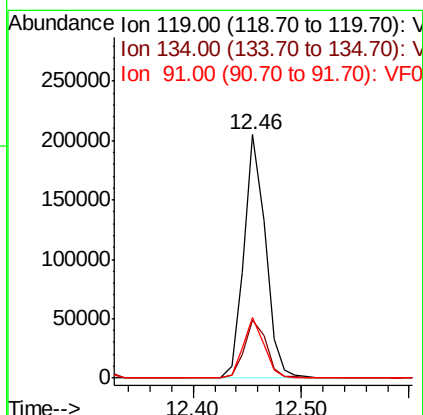
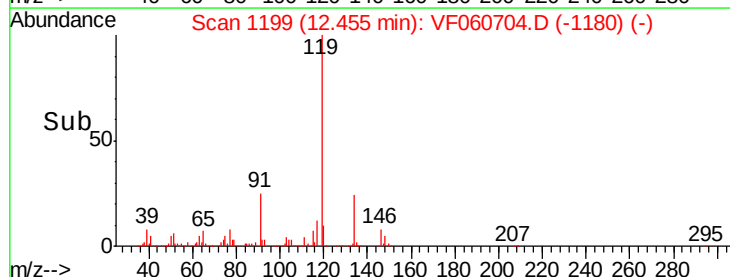
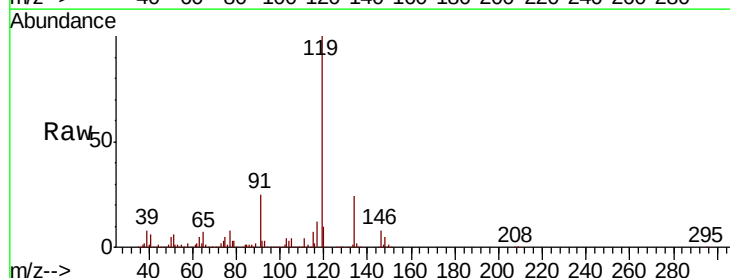
Tgt Ion:119 Resp: 285177

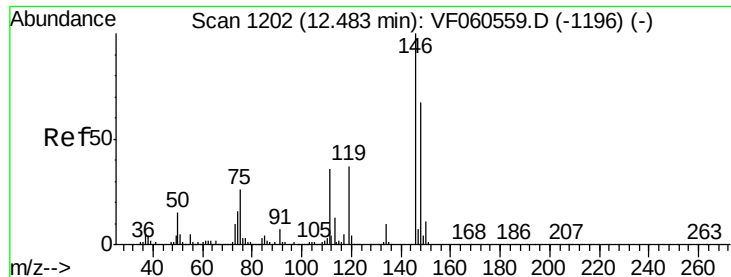
Ion Ratio Lower Upper

119 100

134 23.8 13.6 40.7

91 24.8 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 22.409 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

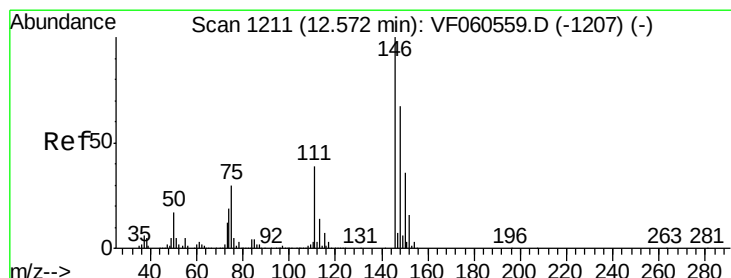
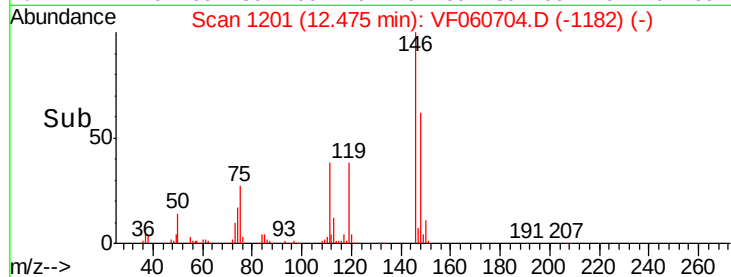
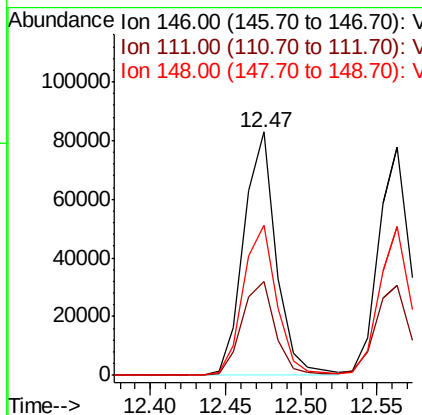
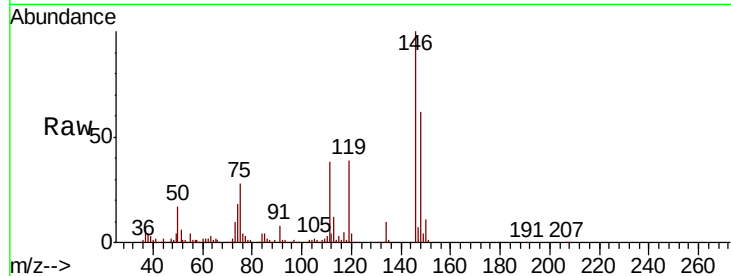
ClientSampleId :

VF1112SBSD01

Tot Ion:	146	Resp:	123895
Ion Ratio	Lower	Upper	
146	100		
111	38.4	18.3	54.8
148	61.5	33.5	100.4

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 22.475 ug/l

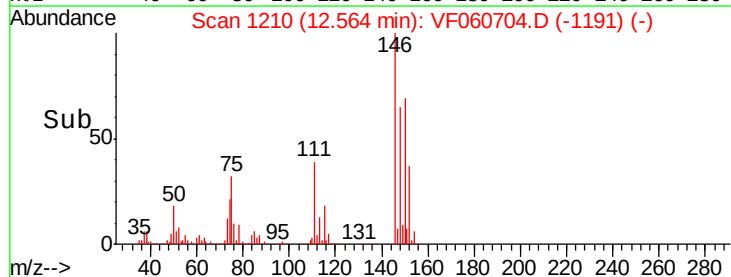
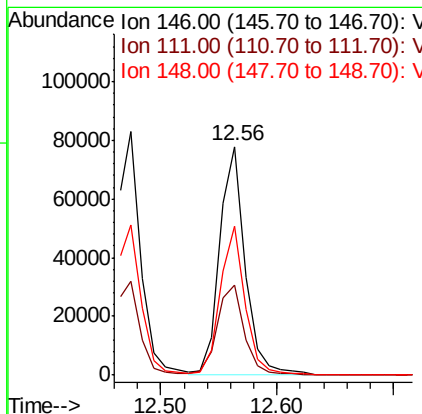
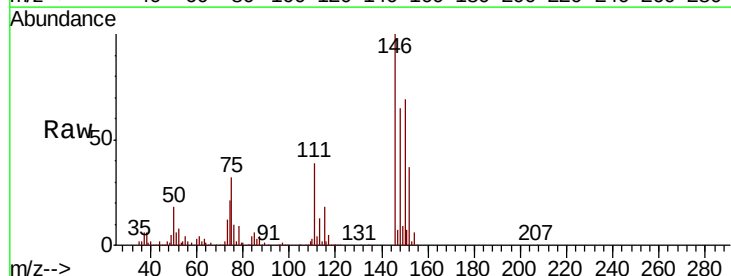
RT: 12.56 min Scan# 1210

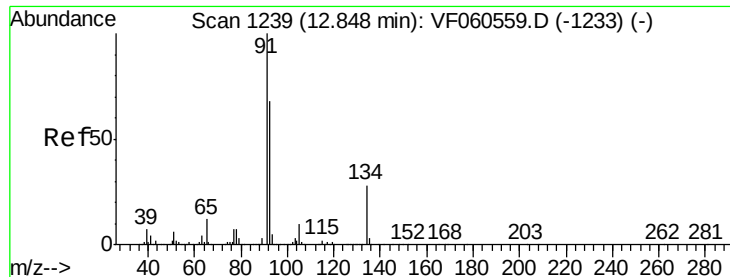
Delta R.T. -0.01 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	146	Resp:	117860
Ion Ratio	Lower	Upper	
146	100		
111	39.2	19.7	59.1
148	65.2	33.7	101.1





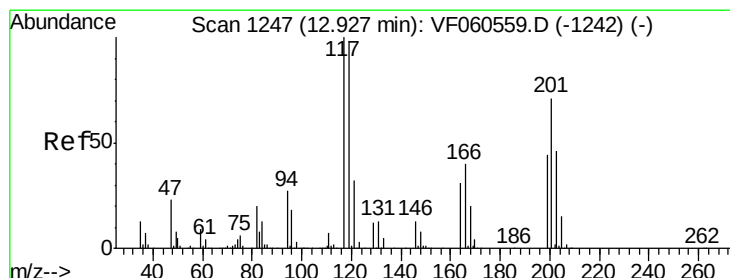
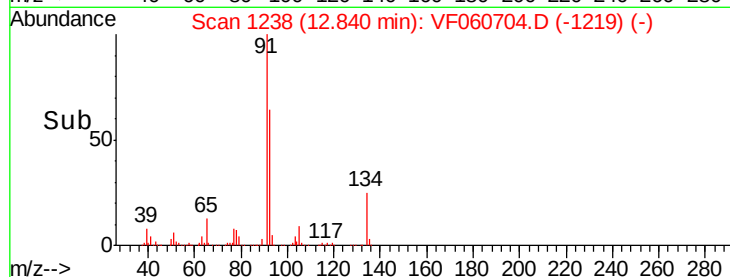
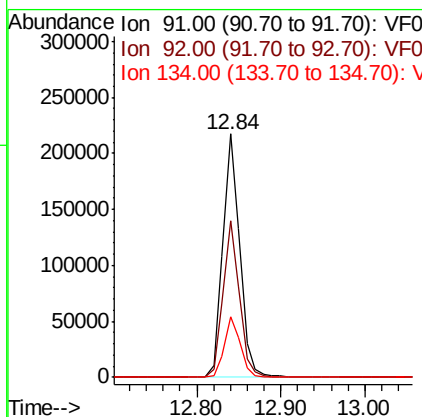
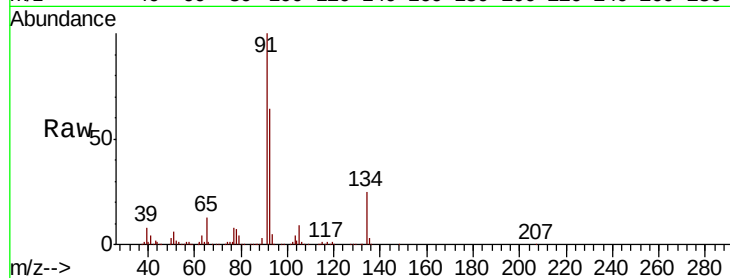
#89
n-Butylbenzene
Concen: 22.885 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	64.3	34.1	102.2
134	24.7	13.9	41.6

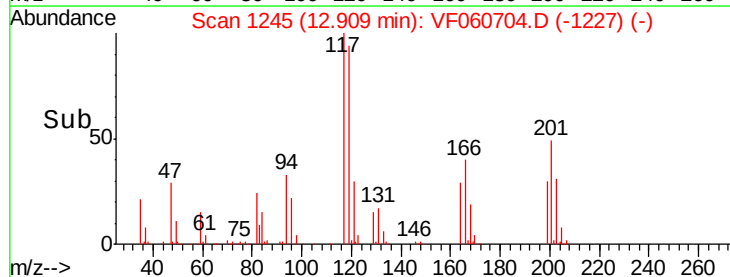
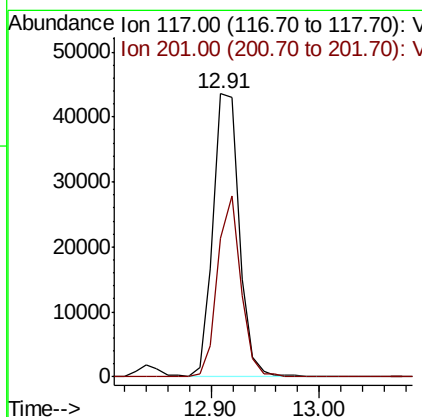
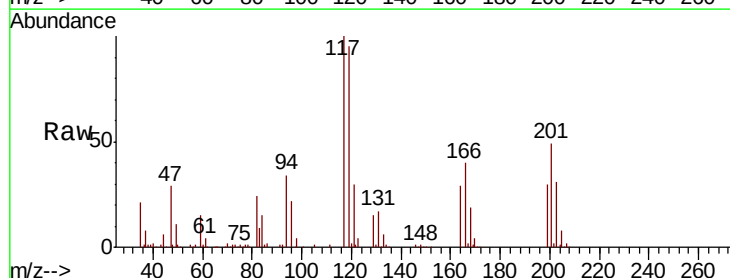
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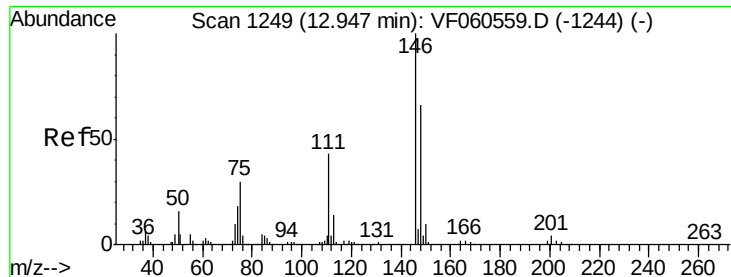
MMDadoda
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#90
Hexachloroethane
Concen: 23.648 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF060704.D
Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Lower	Upper
117	100		
201	51.1	35.2	105.6





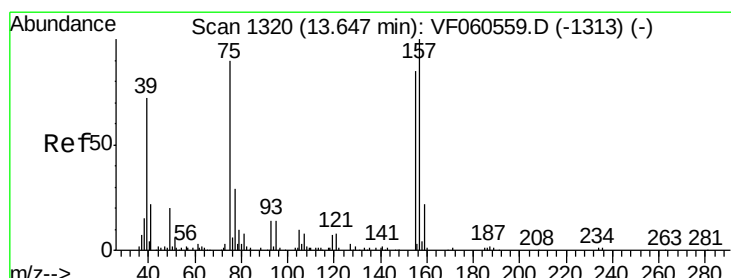
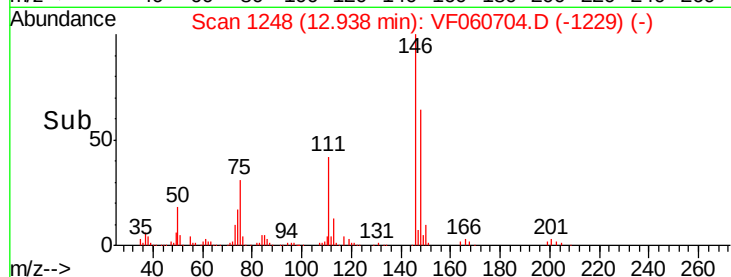
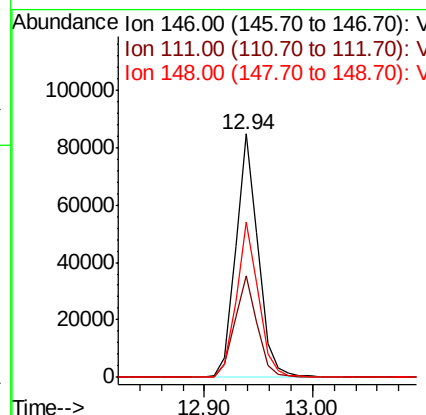
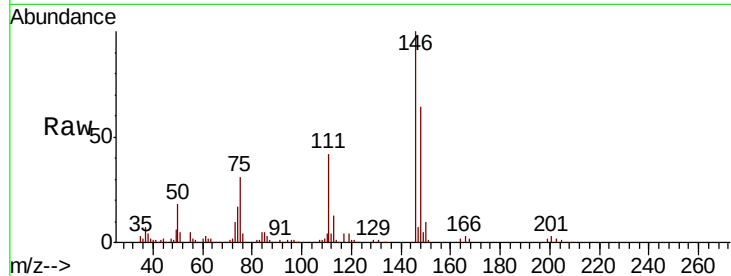
#91
 1,2-Dichlorobenzene
 Concen: 23.659 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF060704.D
 Acq: 12 Nov 2018 00:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1112SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.3	64.0
148	63.9	32.9	98.7

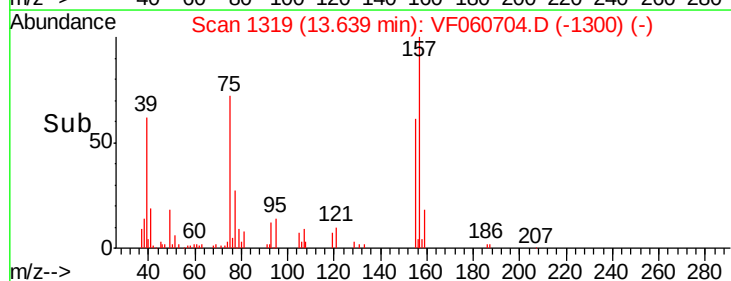
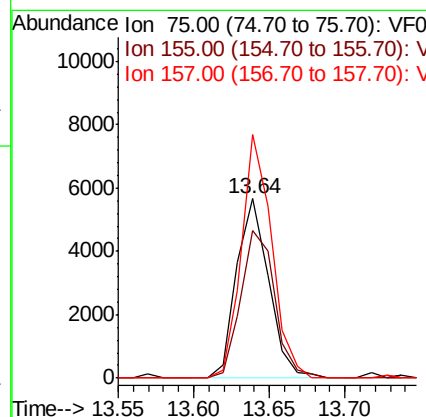
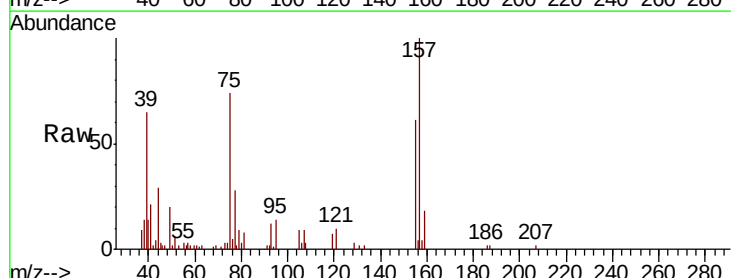
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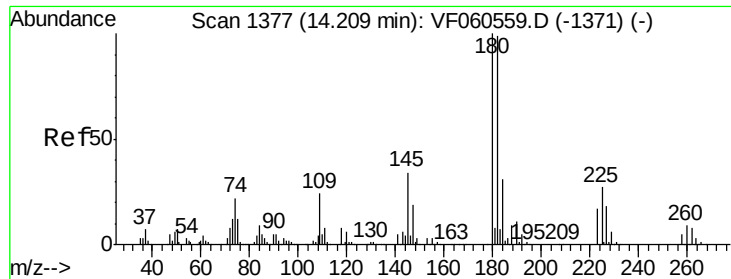
MMDadoda
 11/13/2018 2:11:11 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.577 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF060704.D
 Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.4	47.3	141.8
157	135.6	55.3	165.9





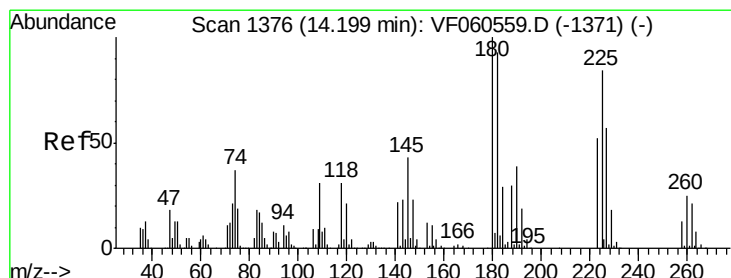
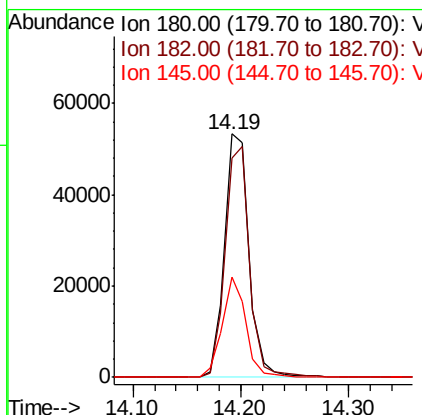
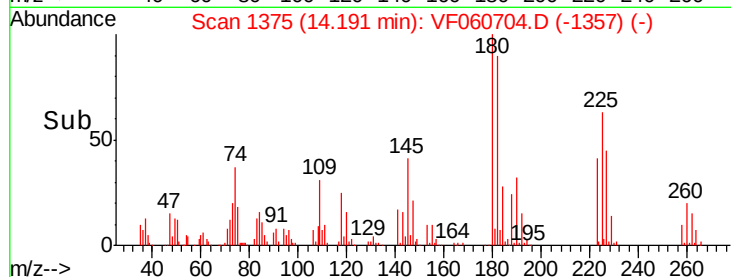
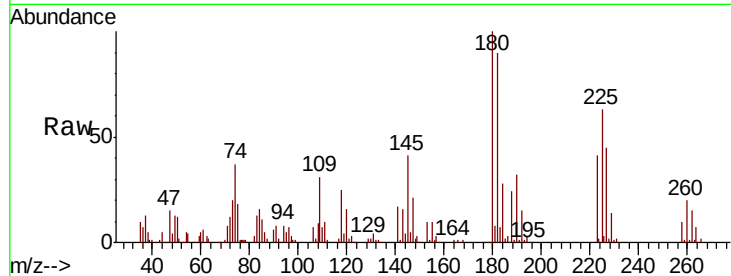
#93
 1,2,4-Trichlorobenzene
 Concen: 24.051 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF060704.D
 Acq: 12 Nov 2018 00:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1112SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	90.2	49.7	149.1	
145	41.2	16.9	50.7	

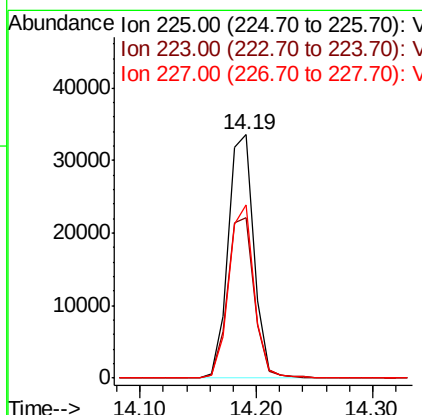
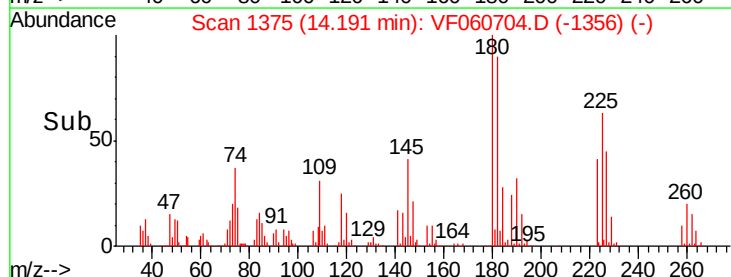
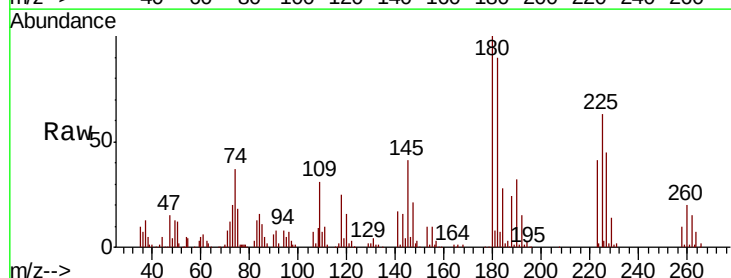
Manual Integrations
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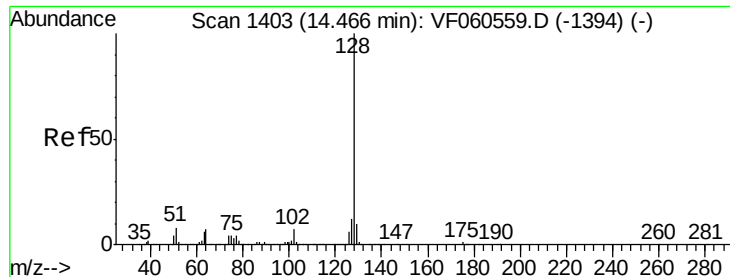
MMDadoda
 11/13/2018 2:11:11 PM



#94
 Hexachlorobutadiene
 Concen: 22.681 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF060704.D
 Acq: 12 Nov 2018 00:48

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	65.9	30.9	92.5	
227	71.1	33.9	101.6	





#95

Naphthalene

Concen: 21.731 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Instrument :

MSVOA_F

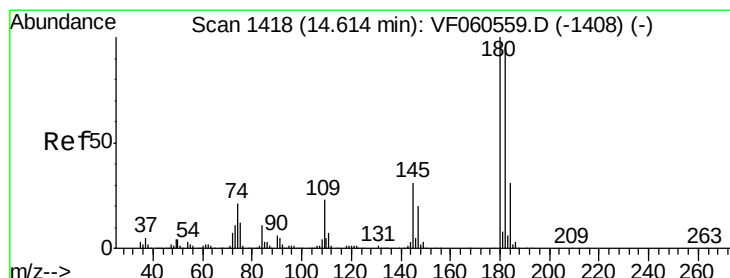
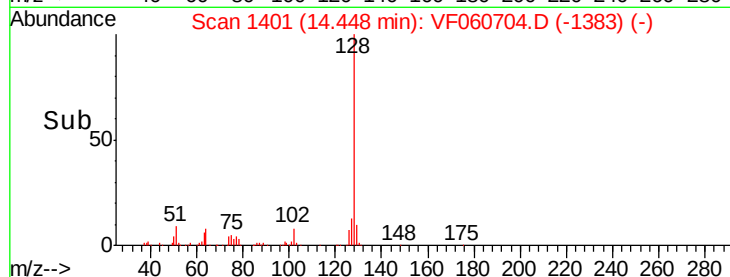
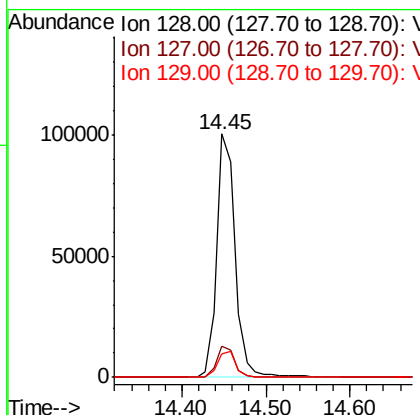
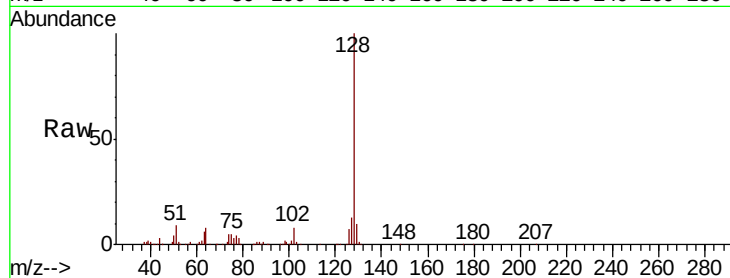
ClientSampleId :

VF1112SBS01

Tot Ion:	128	Resp:	152836
Ion Ratio	Lower	Upper	
128	100		
127	12.7	9.4	14.0
129	9.8	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
11/13/2018 2:11:11 PM



#96

1,2,3-Trichlorobenzene

Concen: 23.076 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.02 min

Lab File: VF060704.D

Acq: 12 Nov 2018 00:48

Tgt Ion:	180	Resp:	76599
Ion Ratio	Lower	Upper	
180	100		
182	98.1	47.3	142.0
145	37.0	15.6	46.8

